## APPENDIX:

Table ‎11‑A: Positive Data-Set

|  |  |  |
| --- | --- | --- |
| 1 | sp|P60824|CIRBP\_MOUSE | MASDEGKLFVGGLSFDTNEQALEQVFSKYGQISEVVVVKDRETQRSRGFGFVTFENIDDAKDAMMAMNGKSVDGRQIRVDQAGKSSDNRSRGYRGGSAGGRGFFRGGRSRGRGFSRGGGDRGYGGGRFESRSGGYGGSRDYYASRSQGGSYGYRSSGGSYRDSYDSYATHNE |
| 2 | sp|Q3UHC7|DAB2P\_MOUSE | MSAGGNARKSTGRPSYYYRLLRRPRLQRQRSRSRSRTRPARESPQERPGSRRSLPGSMSEKNPSMEPSASTPFRVTGFLSRRLKGSIKRTKSQPKLDRNHSFRHILPGFRSAAAAAADNERSHLMPRLKESRSHESLLSPSSAVEALDLSMEEEVIIKPVHSSILGQDYCFEVTTSSGSKCFSCRSAAERDKWMENLRRAVHPNKDNSRRVEHILKLWVIEAKDLPAKKKYLCELCLDDVLYARTTSKLKTDNVFWGEHFEFHNLPPLRTVTVHLYRETDKKKKKERNSYLGLVSLPAASVAGRQFVEKWYPVVTPNPKGGKGPGPMIRIKARYQTVSILPMEMYKEFAEHITNHYLGLCAALEPILSAKTKEEMASALVHILQSTGKVKDFLTDLMMSEVDRCGDNEHLIFRENTLATKAIEEYLKLVGQKYLQDALGEFIKALYESDENCEVDPSKCSSADLPEHQGNLKMCCELAFCKIINSYCVFPRELKEVFASWRQECSSRGRPDISERLISASLFLRFLCPAIMSPSLFNLLQEYPDDRTARTLTLIAKVTQNLANFAKFGSKEEYMSFMNQFLEHEWTNMQRFLLEISNPETLSNTAGFEGYIDLGRELSSLHSLLWEAVSQLDQSVVSKLGPLPRILRDVHTALSTPGSGQLPGTNDLASTPGSGSSSVSAGLQKMVIENDLSGLIDFTRLPSPTPENKDLFFVTRSSGVQPSPARSSSYSEANEPDLQMANGSKSLSMVDLQDARTLDGEAGSPVGPDALPADGQVPATQLLAGWPARAAPVSLAGLATVRRAVPTPTTPGTSEGAPGRPQLLAPLSFQNPVYQMAAGLPLSPRGLGDSGSEGHSSLSSHSNSEELAAAAKLGSFSTAAEELARRPGELARRQMSLTEKGGQPTVPRQNSAGPQRRIDQPPPPPPPPPPAPRGRTPPTLLSTLQYPRPSSGTLASASPDWAGPGTRLRQQSSSSKGDSPELKPRAMHKQGPSPVSPNALDRTAAWLLTMNAQLLEDEGLGPDPPHRDRLRSKEELSQAEKDLAVLQDKLRISTKKLEEYETLFKCQEETTQKLVLEYQARLEEGEERLRRQQEDKDIQMKGIISRLMSVEEELKKDHAEMQAAVDSKQKIIDAQEKRIASLDAANARLMSALTQLKERYSMQARNGVSPTNPTKLQITENGEFRNSSNC |
| 3 | sp|P42528|ARP3\_DICDI | MNPASGLPAVVIDNGTGYTKMGYAGNNDPSFIIPTTIATQSSKGKQTAASQKKGVEDLDFFIGDEAIANSKTYDMTNPVKHGQIENWTHMEQYWEHCVFKYLRCEPEDHYFLLTEPPLNAPENREFTAEIMFETFNVPGLYIAVQAVLALAASWTSKNAEKTLTGTVIDSGDGVTHVIPISEGYVIGSSIKHIPIAGRDISSYVQQIMREREPNIPPAESLEIAKRVKEQYSYVCPDIVKEFGKYDSEPDKWIKTINAQDSVTKKPFSYDVGYERFLGPELFFNPEIASSDYLTPLPKVVDDTIQSCPIDCRRGLYKNIVLSGGSTMFKDFGKRLQRDVKRSVDYRIKRSEELSGGKIKAVPLAVNVISHNMQRYAVWFGGSMLASTPEFYNVCHTKAQYDEIGPSICRFNTVIGGIN |
| 4 | sp|P42730|CLPB1\_ARATH | MNPEKFTHKTNETIATAHELAVNAGHAQFTPLHLAGALISDPTGIFPQAISSAGGENAAQSAERVINQALKKLPSQSPPPDDIPASSSLIKVIRRAQAAQKSRGDTHLAVDQLIMGLLEDSQIRDLLNEVGVATARVKSEVEKLRGKEGKKVESASGDTNFQALKTYGRDLVEQAGKLDPVIGRDEEIRRVVRILSRRTKNNPVLIGEPGVGKTAVVEGLAQRIVKGDVPNSLTDVRLISLDMGALVAGAKYRGEFEERLKSVLKEVEDAEGKVILFIDEIHLVLGAGKTEGSMDAANLFKPMLARGQLRCIGATTLEEYRKYVEKDAAFERRFQQVYVAEPSVPDTISILRGLKEKYEGHHGVRIQDRALINAAQLSARYITGRHLPDKAIDLVDEACANVRVQLDSQPEEIDNLERKRMQLEIELHALEREKDKASKARLIEVRKELDDLRDKLQPLTMKYRKEKERIDEIRRLKQKREELMFSLQEAERRYDLARAADLRYGAIQEVESAIAQLEGTSSEENVMLTENVGPEHIAEVVSRWTGIPVTRLGQNEKERLIGLADRLHKRVVGQNQAVNAVSEAILRSRAGLGRPQQPTGSFLFLGPTGVGKTELAKALAEQLFDDENLLVRIDMSEYMEQHSVSRLIGAPPGYVGHEEGGQLTEAVRRRPYCVILFDEVEKAHVAVFNTLLQVLDDGRLTDGQGRTVDFRNSVIIMTSNLGAEHLLAGLTGKVTMEVARDCVMREVRKHFRPELLNRLDEIVVFDPLSHDQLRKVARLQMKDVAVRLAERGVALAVTDAALDYILAESYDPVYGARPIRRWMEKKVVTELSKMVVREEIDENSTVYIDAGAGDLVYRVESGGLVDASTGKKSDVLIHIANGPKRSDAAQAVKKMRIEEIEDDDNEEMIED |
| 5 | sp|P56100|CYDX\_ECOLI | MWYFAWILGTLLACSFGVITALALEHVESGKAGQEDI |
| 6 | sp|Q5AJU7|AP1\_CANAL | MTDIKRNFSDIASPANLDDTKKLHVDSTATTKVGRKPIDTEPKSKRTAQNRAAQRAYRERKERKMKELEDKVRLLEDANVRALTETDFLRAQVDVLKNELAKYTGGSDFSDLNLPTKVGHLSHPNNHHSNVSTGTPHGSMSSSNSVASLDNDKPSSASSVSNNSPGFAFDNPWSKDNIQKLKHQHQQQQQKVPQGVPDLVSGSSSSSTPLNDNLLVTPESLTGLSTSSKYTGQNNVPTNLDFTNQFDEQVDPFCVKLNEACGTKSNPVPKFKRSGSKANTSVTNNSPLAHLVSPESQQYTNSSNIDFMNDPFFNGVGTDYNFNFDSKNGSIQDPLSFLQDDNFDLALAFGDPSPTGNEAEADPISLLTTEESIYDPLTNNSDKLCSTVKADDVNTDFNFNDFVKNSLPEKQEKGKYEPPSTSKTTNNNEEEDKDEVVPAPPQTLKCSEIWDRITSHPKYTELDIDGLCNELKSKAKCSEKGVVINTADVNQLLERSIKH |
| 7 | sp|Q0D9C4|CATA2\_ORYSJ | MDPYKHRPSSGSNSTFWTTNSGAPVWNNNSALTVGERGPILLEDYHLIEKLAQFDRERIPERVVHARGASAKGFFEVTHDISHLTCADFLRAPGVQTPVIVRFSTVVHERGSPETLRDPRGFAVKFYTREGNFDLVGNNMPVFFIRDGMKFPDMVHAFKPSPKTNMQENWRIVDFFSHHPESLHMFSFLFDDVGIPLNYRHMEGFGVNTYTLINKDGKPHLVKFHWKPTCGVKCLLDDEAVTVGGTCHSHATKDLTDSIAAGNYPEWKLYIQTIDPDHEDRFDFDPLDVTKTWPEDIIPLQPVGRMVLNKNIDNFFAENEQLAFCPAIIVPGIHYSDDKLLQTRIFSYADTQRHRLGPNYLMLPVNAPKCAYHNNHHDGSMNFMHRDEEVNYFPSRFDAARHAEKVPIPPRVLTGCREKCVIDKENNFQQAGERYRSFDPARQDRFLQRWVDALSDPRITHELRGIWISYWSQCDASLGQKLASRLNLKPNM |
| 8 | sp|P0AE85|CPXP\_ECOLI | MRIVTAAVMASTLAVSSLSHAAEVGSGDNWHPGEELTQRSTQSHMFDGISLTEHQRQQMRDLMQQARHEQPPVNVSELETMHRLVTAENFDENAVRAQAEKMANEQIARQVEMAKVRNQMYRLLTPEQQAVLNEKHQQRMEQLRDVTQWQKSSSLKLLSSSNSRSQ |
| 9 | sp|Q6P730|DAB2P\_RAT | MENLRRAVHPNKDNSRRVEHILKLWVIEAKDLPAKKKYLCELCLDDVLYARTTGKLKTDNVFWGEHFEFHNLPPLRTVTVHLYRETDKKKKKERNSYLGLVSLPAASVAGRQFVEKWYPVVTPNPKGGKGPGPMIRIKARYQTITILPMEMYKEFAEHITNHYLGLCAALEPILSAKTKEEMASALVHILQSTGKVKDFLTDLMMSEVDRCGDNEHLIFRENTLATKAIEEYLKLVGQKYLQDALGEFIKALYESDENCEVDPSKCSAADLPEHQGNLKMCCELAFCKIINSYCVFPRELKEVFASWRQECSSRGRPDISERLISASLFLRFLCPAIMSPSLFNLLQEYPDDRTARTLTLIAKVTQNLANFAKFGSKEEYMSFMNQFLEHEWTNMQRFLLEISNPETLSNTAGFEGYIDLGRELSSLHSLLWEAVSQLDQSIVSKLGPLPRILRDVHTALSTPGSGQLPGTNDLASTPGSGSSSVSAGLQKMVIENDLSGLIDFTRLPSPTPENKDLFFVTRSSGVQPSPARSSSYSEANEPDLQMANGSKSLSMVDLQDARTLDGEAGSPVGPEALPADGQVPATQLVAGWPARAAPVSLAGLATVRRAVPTPTTPGTSEGAPGRPQLLAPLSFQNPVYQMAAGLPLSPRGLGDSGSEGHSSLSSHSNSEELAAAAKLGSFSTAAEELARRPGELARRQMSLTEKGGQPTVPRQNSAGPQRRIDQPPPPPPPPPPAPRGRTPPTMLSTLQYPRPSSGTLASASPDWAGPGTRLRQQSSSSKGDSPELKPRALHKQGPSPVSPNALDRTAAWLLTMNAQLLEDEGLGPDPPHRDRLRSKEELSQAEKDLAVLQDKLRISTKKLEEYETLFKCQEETTQKLVLEYQARLEEGEERLRRQQEDKDVQMKGIISRLMSVEEELKKDHAEMQAAVDSKQKIIDAQEKRIASLDAANARLMSALTQLKERYSMRARNGVSPTNPTKLQITENGEFRNSSNC |
| 10 | sp|P17444|BETA\_ECOLI | MQFDYIIIGAGSAGNVLATRLTEDPNTSVLLLEAGGPDYRFDFRTQMPAALAFPLQGKRYNWAYETEPEPFMNNRRMECGRGKGLGGSSLINGMCYIRGNALDLDNWAQEPGLENWSYLDCLPYYRKAETRDMGENDYHGGDGPVSVTTSKPGVNPLFEAMIEAGVQAGYPRTDDLNGYQQEGFGPMDRTVTPQGRRASTARGYLDQAKSRPNLTIRTHAMTDHIIFDGKRAVGVEWLEGDSTIPTRATANKEVLLCAGAIASPQILQRSGVGNAELLAEFDIPLVHELPGVGENLQDHLEMYLQYECKEPVSLYPALQWWNQPKIGAEWLFGGTGVGASNHFEAGGFIRSREEFAWPNIQYHFLPVAINYNGSNAVKEHGFQCHVGSMRSPSRGHVRIKSRDPHQHPAILFNYMSHEQDWQEFRDAIRITREIMHQPALDQYRGREISPGVECQTDEQLDEFVRNHAETAFHPCGTCKMGYDEMSVVDGEGRVHGLEGLRVVDASIMPQIITGNLNATTIMIGEKIADMIRGQEALPRSTAGYFVANGMPVRAKK |
| 11 | sp|P20163|BIBH\_CAEEL | MKVFSLILIAFVANAYCDEGASTEKEEKMGTIIGIDLGTTYSCVGVFKNGRVEIIANDQGNRITPSYVAFSGDQGERLIGDAAKNQLTINPENTIFDAKRLIGRFYNEKTVQQDIKHWPFKIVDKSNKPNVEVKVGSETKQFTPEEVSAMVLTKMKQIAESYLGHEVKNAVVTVPAYFNDAQKQATKDAGSIAGLNVVRIINEPTAAAIAYGLDKKDGERNILVFDLGGGTFDVSLLTIDSGVFEVLATNGDTHLGGEDFDQRVMEYFIKLYKKKSGKDLRKDNRAVQKLRREVEKAKRALSTQHQTKIEIESLFDGEDFSETLTRAKFEELNMDLFRATLKPVQKVLEDADMKKTDVHEIVLVGGSTRIPKVQQLIKDYFNGKEPSRGINPDEAVAYGAAVQAGVIGGVENTGDVVLLDVNPLTLGIETVGGVMTKLIGRNTVIPTKKSQVFSTAADSQSAVSIVIYEGERPMVMDNHKLGNFDVTGIPPAPRGVPQIEVTFEIDVNGILHVSAEDKGTGNKNKLTITNDHNRLSPEDIERMINDADKFAADDQAQKEKVESRNELEAYAYQMKTQIADKEKLGGKLTDEDKVSIESAVERAIEWLGSNQDASTEENKEQKKELESVVQPIVSKLYSAGGQGEQASEEPSEDHDEL |
| 12 | sp|Q8IUR6|CRERF\_HUMAN | MPQPSVSGMDPPFGDAFRSHTFSEQTLMSTDLLANSSDPDFMYELDREMNYQQNPRDNFLSLEDCKDIENLESFTDVLDNEGALTSNWEQWDTYCEDLTKYTKLTSCDIWGTKEVDYLGLDDFSSPYQDEEVISKTPTLAQLNSEDSQSVSDSLYYPDSLFSVKQNPLPSSFPGKKITSRAAAPVCSSKTLQAEVPLSDCVQKASKPTSSTQIMVKTNMYHNEKVNFHVECKDYVKKAKVKINPVQQSRPLLSQIHTDAAKENTCYCGAVAKRQEKKGMEPLQGHATPALPFKETQELLLSPLPQEGPGSLAAGESSSLSASTSVSDSSQKKEEHNYSLFVSDNLGEQPTKCSPEEDEEDEEDVDDEDHDEGFGSEHELSENEEEEEEEEDYEDDKDDDISDTFSEPGYENDSVEDLKEVTSISSRKRGKRRYFWEYSEQLTPSQQERMLRPSEWNRDTLPSNMYQKNGLHHGKYAVKKSRRTDVEDLTPNPKKLLQIGNELRKLNKVISDLTPVSELPLTARPRSRKEKNKLASRACRLKKKAQYEANKVKLWGLNTEYDNLLFVINSIKQEIVNRVQNPRDERGPNMGQKLEILIKDTLGLPVAGQTSEFVNQVLEKTAEGNPTGGLVGLRIPTSKV |
| 13 | sp|O80944|AKRC8\_ARATH | MAAPIRFFELNTGAKLPCVGLGTYAMVATAIEQAIKIGYRHIDCASIYGNEKEIGGVLKKLIGDGFVKREELFITSKLWSNDHLPEDVPKALEKTLQDLQIDYVDLYLIHWPASLKKESLMPTPEMLTKPDITSTWKAMEALYDSGKARAIGVSNFSSKKLTDLLNVARVTPAVNQVECHPVWQQQGLHELCKSKGVHLSGYSPLGSQSKGEVRLKVLQNPIVTEVAEKLGKTTAQVALRWGLQTGHSVLPKSSSGARLKENLDVFDWSIPEDLFTKFSNIPQEKFCRATEFAHETHGFYKTIEELWDGEI |
| 14 | sp|Q6K9N1|CKI1\_ORYSJ | MEHVIGGKFKLGRKIGSGSFGELYLGVNIQSSEEVAIKLESVKSRHPQLHYESKLYMLLQGGTGIPHLKWFGVEGEYNVMVIDLLGPSLEDLFNYCNRKFSLKTVLMLADQMINRVEYMHTRGFLHRDIKPDNFLMGLGRKASQVYVIDYGLAKKYRDLQTHKHIPYRENKNLTGTARYASVNTHLGVEQSRRDDLESLGYVLMYFLRGSLPWQGLKAGTKKQKYDKISEKKMLTPVEVLCKSYPTEFISYFHYCRSLRFEDKPDYSYLKRLFRDLFIREGYQLDYIFDWTKQGSESNRLRSSGRTSGLVGPSAERTERAAARQDVPDRFSGTVDPFARRTGSGSGHYGEHTKHRNILDSLLAPKTAVDLDKRRPTSSSRNGSTSRKALLSSSRPSSGDPIDPNRSNLIPTSSGSSRPSTMQRLHQSTGLETRSSLTKTARNVHDDPTLRTFERLSISADRRK |
| 15 | sp|Q9UHD1|CHRD1\_HUMAN | MALLCYNRGCGQRFDPETNSDDACTYHPGVPVFHDALKGWSCCKRRTTDFSDFLSIVGCTKGRHNSEKPPEPVKPEVKTTEKKELCELKPKFQEHIIQAPKPVEAIKRPSPDEPMTNLELKISASLKQALDKLKLSSGNEENKKEEDNDEIKIGTSCKNGGCSKTYQGLESLEEVCVYHSGVPIFHEGMKYWSCCRRKTSDFNTFLAQEGCTKGKHMWTKKDAGKKVVPCRHDWHQTGGEVTISVYAKNSLPELSRVEANSTLLNVHIVFEGEKEFDQNVKLWGVIDVKRSYVTMTATKIEITMRKAEPMQWASLELPAAKKQEKQKDATTD |
| 16 | sp|Q9LD47|CCS\_ARATH | MASILRSVATTSAVVAAASAIPIAIAFSSSSSSSSTNPKSQSLNFSFLSRSSPRLLGLSRSFVSSPMATALTSDRNLHQEDRAMPQLLTEFMVDMTCEGCVNAVKNKLETIEGIEKVEVDLSNQVVRILGSSPVKAMTQALEQTGRKARLIGQGVPQDFLVSAAVAEFKGPDIFGVVRFAQVSMELARIEANFTGLSPGTHSWCINEYGDLTNGAASTGSLYNPFQDQTGTEPLGDLGTLEADKNGEAFYSGKKEKLKVADLIGRAVVVYKTDDNKSGPGLTAAVIARSAGVGENYKKLCSCDGTVIWEATNSDFVASKV |
| 17 | sp|P34652|CALX\_CAEEL | MVNRKWMYIFIQFLLVSSIRSDDDVFEDDEEEVTKGSDDKEEFVPSLFVAPKLSDKSTPNFFDYFPVGSKIGLTWIKSLAKKDDVDSDIAKYNGEWSIGAPTKVSIEGDLGLIVKTKARHHAIAAKLNTPFAFDANTFVVQYDIKFEEGQECGGGYLKLLSEGAEKDLANFQDKTAYTIMFGPDKCGATGKVHLIFRYKNPINGTISEYHANQPTTIGSTYWDDHNTHLFTLVVKPTGEYSVSVDGKSLYYGNMMSDVTPALTPPKQIFDETDLKPVDWDERENIEDESAVKPDDWDENEPQSVVDEAATKPYDWNEEENELIADPEAKKPQDWDEDMDGSWEAPLIDNPACKGLSGCGTWKAPTIKNPKYKGKWIRPKISNPAFKGKWTARLIDNPNYFEPKPFAGLAPITAVGIEMWTMSENILFDNILITSSEEDSSDVAKQTFYVKQKEEYRLAAATGNGNGFFQQIIDATNEKPWLWAVYILCVLLPLVAIGVFCFGKQSKPTPNFAKKSDAYSADDDRVPNLVDDDEEEIIGDEEDDVNQPGPSGSQSNPEPQDEEENAEQQSANSSQSSAAEEEDDEHVVPENEPVKPTEEFAKKSPKNTGGAKRRTARRGD |
| 18 | sp|Q6I621|2A5K\_ORYSJ | MWKGFLSKLPRKTSASGRGADLDSGQCSNGAGNGNPIQRTSSCGSIPSGRSTSTIKRMSSAIFPSSVVAGIEPLVSFKDVPNSEKQNLFVSKLNLCCAVFDFSDPNKSSAEKDIKRQTLLDLIDYVDSSSSRFSEAVIAASSRMFAVNLFRVFPPNYRSSSSGGGEGEEEEPMFEPAWCHLQLVYELLLKFIGSSSLDAKVGKKYFDHSFIVKLLNLLDSEDPRERDCLKTILHRIYGKFMVHRPFIRKAVSNIFYHFVFETDRHNGIAELLEVFGSVISGFALPLKEEHKIFLWRVLVPLHKPKSVGVYLQQLTYCVTQFIEKDPKLASSVIIGLLRYWPITNSQKEVMFLSEIEEILETISTAEFQKCMVPLFRRIAQCIKSSHFQVAERALFIWNNDNVISLIAQNRQMIMPIIVPALEHNSQNHWNQAVLNLTDNVKKMFSEMDDVLFSACLVKYKEDEERQASLESKRRLTWEKLESAASFQPVTGHTAVLVGRQPSANLIATLI |
| 19 | sp|O95433|AHSA1\_HUMAN | MAKWGEGDPRWIVEERADATNVNNWHWTERDASNWSTDKLKTLFLAVQVQNEEGKCEVTEVSKLDGEASINNRKGKLIFFYEWSVKLNWTGTSKSGVQYKGHVEIPNLSDENSVDEVEISVSLAKDEPDTNLVALMKEEGVKLLREAMGIYISTLKTEFTQGMILPTMNGESVDPVGQPALKTEERKAKPAPSKTQARPVGVKIPTCKITLKETFLTSPEELYRVFTTQELVQAFTHAPATLEADRGGKFHMVDGNVSGEFTDLVPEKHIVMKWRFKSWPEGHFATITLTFIDKNGETELCMEGRGIPAPEEERTRQGWQRYYFEGIKQTFGYGARLF |
| 20 | sp|O65683|BZP11\_ARATH | MESSSSGTTSSTIQTSSGSEESLMEQRKRKRMLSNRESARRSRMKKQKLLDDLTAQVNHLKKENTEIVTSVSITTQHYLTVEAENSVLRAQLDELNHRLQSLNDIIEFLDSSNNNNNNNMGMCSNPLVGLECDDFFVNQMNMSYIMNQPLMASSDALMY |
| 21 | sp|Q9SUV1|BRT1\_ARATH | MGKTGIQLFDDSRNGFFSVSDLGFDSSLNSSNYHPIGGLFASVNQTNPFASLSSSDLSNRGNNSFSTQLNDLYTKYMPGKEEEEEVVNGEKRKRKKKGGLTLKIKIANPSLRRLLSGAVAGAVSRTVVAPLETIRTHLMVGSGGNSSTEVFSDIMKHEGWTGLFRGNLVNVIRVAPARAVELFVFETVNKKLSPPHGQESKIPIPASLLAGACAGVSQTLLTYPLELVKTRLTIQRGVYKGIFDAFLKIIREEGPTELYRGLAPSLIGVVPYAATNYFAYDSLRKAYRSFSKQEKIGNIETLLIGSLAGALSSTATFPLEVARKHMQVGAVSGRVVYKNMLHALVTILEHEGILGWYKGLGPSCLKLVPAAGISFMCYEACKKILIENNQEA |
| 22 | sp|Q6AVI8|CDPK9\_ORYSJ | MGNTCCVAPATTDEVGAPPRDHHHAAKKSPAPSATTTTATRQRHGQEPKPKPKPRARAKPNPYDWAPPRVLPARGGAAASAVRVLEGVVPHHPRLRVTDKYQLGRELGRGEFGVTHLATDRATRERLACKSIPKRRLRTAVDVADVRREVAIMASLPDHPALVRLRAAYEDADAVHLVMELCDGGELFDRIVARGRYTERAAAAAARTVAEVVRACHAHGVMHRDLKPENFLYAGKAEDAQLKAIDFGLSVFFRPGERFREIVGSPYYMAPEVLRRDYGPEVDIWSAGVILYILLCGVPPFWAETEQGVARAILRGAADFDREPWPRISRAAKSLVRQMLDVDPRRRPTAQQVLDHPWLHHAARAPNVPLGDVVRARLKQFSLMNRLKKKAMRVIAEHLSVEEVEVIKDMFALMDTDNNGRVTLQELKDGLTKVGSKLAEPEMELLMEAADVDGNGYLDYGEFVAVTIHLQRLSNDNHLRTAFLFFDKDGSGYIDRAELADALADDSGHADDAVLDHILREVDTDKDGRISYEEFVAMMKSGTDWRKASRQYSRERFKTLSNSLIKDGSITMAR |
| 23 | sp|O81445|CNBL1\_ARATH | MGCFHSKAAKEFRGHEDPVKLASETAFSVSEVEALFELFKSISSSVVDDGLINKEEFQLALFKSRKRENIFANRIFDMFDVKRKGVIDFGDFVRSLNVFHPNASLEDKIDFTFRLYDMDCTGYIERQEVKQMLIALLCESEMKLADETIEIILDKTFEDADVNQDGKIDKLEWSDFVNKNPSLLKIMTLPYLRDITTTFPSFVFHSEVDEIAT |
| 24 | sp|P37019|CLCA\_ECOLI | MKTDTPSLETPQAARLRRRQLIRQLLERDKTPLAILFMAAVVGTLVGLAAVAFDKGVAWLQNQRMGALVHTADNYPLLLTVAFLCSAVLAMFGYFLVRKYAPEAGGSGIPEIEGALEDQRPVRWWRVLPVKFFGGLGTLGGGMVLGREGPTVQIGGNIGRMVLDIFRLKGDEARHTLLATGAAAGLAAAFNAPLAGILFIIEEMRPQFRYTLISIKAVFIGVIMSTIMYRIFNHEVALIDVGKLSDAPLNTLWLYLILGIIFGIFGPIFNKWVLGMQDLLHRVHGGNITKWVLMGGAIGGLCGLLGFVAPATSGGGFNLIPIATAGNFSMGMLVFIFVARVITTLLCFSSGAPGGIFAPMLALGTVLGTAFGMVAVELFPQYHLEAGTFAIAGMGALLAASIRAPLTGIILVLEMTDNYQLILPMIITGLGATLLAQFTGGKPLYSAILARTLAKQEAEQLARSKAASASENT |
| 25 | sp|P42762|CLPD\_ARATH | MEVLSTSSPLTLHSHRLLSASSSSSHVTSIAASSLSSFASSYLGISLSNRTIHRFSTTPTNLRRFPQRKRKKFTPISAVFERFTERAIRAIIFSQKEAKSLGKDMVYTQHLLLGLIAEDRDPQGFLGSGITIDKAREAVWSIWDEANSDSKQEEASSTSYSKSTDMPFSISTKRVFEAAVEYSRTMDCQYIAPEHIAVGLFTVDDGSAGRVLKRLGANMNLLTAAALTRLKGEIAKDGREPSSSSKGSFESPPSGRIAGSGPGGKKAKNVLEQFCVDLTARASEGLIDPVIGREKEVQRVIQILCRRTKNNPILLGEAGVGKTAIAEGLAISIAEASAPGFLLTKRIMSLDIGLLMAGAKERGELEARVTALISEVKKSGKVILFIDEVHTLIGSGTVGRGNKGSGLDIANLLKPSLGRGELQCIASTTLDEFRSQFEKDKALARRFQPVLINEPSEEDAVKILLGLREKYEAHHNCKYTMEAIDAAVYLSSRYIADRFLPDKAIDLIDEAGSRARIEAFRKKKEDAICILSKPPNDYWQEIKTVQAMHEVVLSSRQKQDDGDAISDESGELVEESSLPPAAGDDEPILVGPDDIAAVASVWSGIPVQQITADERMLLMSLEDQLRGRVVGQDEAVAAISRAVKRSRVGLKDPDRPIAAMLFCGPTGVGKTELTKALAANYFGSEESMLRLDMSEYMERHTVSKLIGSPPGYVGFEEGGMLTEAIRRRPFTVVLFDEIEKAHPDIFNILLQLFEDGHLTDSQGRRVSFKNALIIMTSNVGSLAIAKGRHGSIGFILDDDEEAASYTGMKALVVEELKNYFRPELLNRIDEIVIFRQLEKAQMMEILNLMLQDLKSRLVALGVGLEVSEPVKELICKQGYDPAYGARPLRRTVTEIVEDPLSEAFLAGSFKPGDTAFVVLDDTGNPSVRTKPDSSTIRVTDKTSIA |
| 26 | sp|Q76FS5|SPS2\_ARATH | MMMSCRNIDLGTSVLDHSCSSSSTSRRFLFGNSSKTVCMIGGRSCVGNLVFLRRDLATCRAVPAKSKENSLVNGIGQDQTVMLNLRQESRKPISLETLFEVVADDLQRLNDNLLSIVGAENPVLISAAEQIFSAGGKRMRPGLVFLVSRATAELAGLKELTVEHRRLGEIIEMIHTASLIHDDVLDESDMRRGRETVHELFGTRVAVLAGDFMFAQASWYLANLENLEVIKLISQVIKDFASGEIKQASSLFDCDVKLDDYMLKSYYKTASLVAASTKGAAIFSKVESKVAEQMYQFGKNLGLSFQVVDDILDFTQSTEQLGKPAANDLAKGNITAPVIFALENEPRLREIIESEFCEPGSLEEAIEIVRNRGGIKKAQELAKEKAELALKNLNCLPRSGFRSALEDMVMFNLERID |
| 27 | sp|B7F9G7|ADPO1\_ORYSJ | MGEEAAMATMESAYHDELAPAAAPAPAKGGGSKKKRKQQKREEKRKECRLVSYHELPDYMKENEFILDYYRSEWPILNALLSLFSWHNETINIWTHLLGFVLFFGLTVLHLGQYFPQVADLIGHLSWPISKVAENVSSNIGDVLSGAASFMQASPASSAGAMAAAWPVTAAAAATTRWPFFVFLAGAMFCLLSSAACHLLSCHSHRLNLFLIRLDYTGIAVMIVVSFFPPIYYIFQCEPRWQVVYLSAITAAGVATVYALMSPRLSAARYRAHRALLFVAMGLSGVVPAAHAVAVNWHEPRRNVTLAYEGAMAASYLAGTAFYLTRVPERWRPGMFDLCGHSHQIFHALVIAGALAHYAAAIVFIQARDEMGCPAP |
| 28 | sp|P31346|ANGI\_PIG | KDEDRYTHFLTQHYDAKPKGRDGRYCESIMKQRGLTRPCKEVNTFIHGTRNDIKAICNDKNGEPYNNFRRSKSPFQITTCKHKGGSNRPPCGYRATAGFRTIAVACENGLPVHFDESFIITSQ |
| 29 | sp|P9WPE4|CH10\_MYCTO | MAKVNIKPLEDKILVQANEAETTTASGLVIPDTAKEKPQEGTVVAVGPGRWDEDGEKRIPLDVAEGDTVIYSKYGGTEIKYNGEEYLILSARDVLAVVSK |
| 30 | sp|A5IGM1|CH60\_LEGPC | MAKELRFGDDARLQMLAGVNALADAVQVTMGPRGRNVVLEKSYGAPTVTKDGVSVAKEIEFEHRFMNMGAQMVKEVASKTSDTAGDGTTTATVLARSILVEGHKAVAAGMNPMDLKRGIDKAVLAVTKKLQAMSKPCKDSKAIAQVGTISANSDEAIGAIIAEAMEKVGKEGVITVEDGNGLENELSVVEGMQFDRGYISPYFINNQQNMSCELEHPFILLVDKKVSSIREMLSVLEGVAKSGRPLLIIAEDVEGEALATLVVNNMRGIVKVCAVKAPGFGDRRKAMLQDIAILTKGQVISEEIGKSLEGATLEDLGSAKRIVVTKENTTVIDGEGKATEINARIAQIRAQMEETTSDYDREKLQERVAKLAGGVAVIKVGAATEVEMKEKKARVEDALHATRAAVEEGIVAGGGVALIRAQKALDSLKGDNDDQNMGINILRRAIESPMRQIVTNAGYEASVVVNKVAEHKDNYGFNAATGEYGDMVEMGILDPTKVTRMALQNAASVASLMLTTECMVADLPKKEEGVGAGDMGGMGGMGGMGGMM |
| 31 | sp|Q95046|CH60\_TRYCR | MFRSAARFAGKEIRFGTEARQSMQKGVQRAVSAVATTLGPKGRNVIIEQSYGAPKITKDGVTVAKAIEFKDPFENMGAQLVRQVCNKTNDLAGDGTTTSAVLVASVFSESLRCIATGTNPIDMKRGMDRAVGVILQSVAEQSRKVTSTENIVQVATISANGDEELGRLIGQAMEKVGKDGVITTQDGKTMTTELEVVEGMSIDRGYISPYFVTDAKAQKAELEDAFVLVSAKKVSSIHTILPALNHVVRTGRPLLIIADDVESEALTTMIFNKLQGKLKIACVKAPGFGDNKTAMMQDIAIFAGARLVGEEGSGLELDAENFDPAILGTVKKATITKDDTVLLNGGGESSMVKERVELLRGLIDGETSDYNREKLQERLAKLSGGVAVIKVGGGSEVEVNEKKDRITDALCSTRAAVQEGIVPGGGVALLRASKALDSLLGDSSLTADQRTGVQIIRNAVRLPAHTIVLNAGKEGAVVVEKVLENNDVTVGYDAQRDRYVNMFEAGIIDPARVVRVAITDAVSVASLMMTAEAAIVDLPKEETPAAGGMGGMGGMGGMGDMY |
| 32 | sp|Q6GIB2|CLPB\_STAAR | MDINKMTYAVQSALQQAVELSQQHKLQNIEIEAILSAALNESESLYKSILERANIEVDQLNKAYEDKLNTYASVEGDNIQYGQYISQQANQLITKAESYMKEYEDEYISMEHILRSAMDIDQTTKHYINNKVEVIKEIIKKVRGGNHVTSQNPEVNYEALAKYGRDLVEEVRQGKMDPVIGRDEEIRNTIRILSRKTKNNPVLIGEPGVGKTAIVEGLAQRIVKKDVPESLLDKTVFELDLSALVAGAKYRGEFEERLKAVLKEVKESDGRIILFIDEIHMLVGAGKTDGAMDAGNMLKPMLARGELHCIGATTLNEYREYIEKDSALERRFQKVAVSEPDVEDTISILRGLKERYEVYHGVRIQDRALVAAAELSDRYITDRFLPDKAIDLVDQACATIRTEMGSNPTELDQVNRRVMQLEIEESALKNESDNASKQRLQELQEELANEKEKQAALQSRVESEKEKIANLQEKRAQLDESRQALEDAQTNNNLEKAAELQYGTIPQLEKELRELEDNFQDEQGEDSDRMIREVVTDEEIGDIVSQWTGIPVSKLVETEREKLLHLSDILHKRVVGQDKAVDLVSDAVVRARAGIKDPNRPIGSFLFLGPTGVGKTELAKSLAASLFDSEKHMIRIDMSEYMEKHAVSRLIGAPPGYIGHDEGGQLTEAVRRNPYSVILLDEVEKAHTDVFNVLLQILDEGRLTDSKGRSVDFKNTIIIMTSNIGSQVLLENVKETGEITESTEKAVMTSLNAYFKPEILNRMDDIVLFKPLSIDDMSMIVDKILTQLNIRLLEQRISIEVSDDAKAWLGQEAYEPQYGARPLKRFVQRQIETPLARMMIKEGFPEGTTIKVNLNSDNNLTFNVEKIHE |
| 33 | sp|Q83FI1|CLPB\_TROWT | MCGGSFMSESQSELDKYGTNLTKTAATNKLDPVIGRDAEIRRVCQILSRRTKNNPVLIGSAGVGKTAIVEGLAQRIVAGDVPESLRNKEIVSLDLSALLAGASYRGEFEKRVKNLLEEIQKSKVIIFIDEVHTLMSAGAAEGAIAAGNMLKPLLARGELRLIGATTLDEYREHLEKDPALERRFQQVFVGEPNLEDCIAIMRGLKERYEAHHKVSISDTALVTAVELSSRYITGRQLPDKAIDLLDEAASSLRMEIDSSPVELDQLRREVDRLRLEELALKSENDPTSEQRLRSITNQLSGKQEMLNTLQASWNSERARLNQIGALKEQIDIAKQSADIAQREGRLEDASRLLYATIPQLQKNLAEKLEEQDSAPLVSDQVMPEDIASVVEGWTGIPVKKLMQKDAKQLLHLEEDLSKSVIAQKVAIGVIADAVRRSRAGLSDPNRPSGTFLFLGPTGVGKTQLVKALASLLYDGEIVRIDMSEYSEKFSISRLIGAPPGYIGHESAGQLTESVRRRPYSVVLFDEAEKAHPEVFDILLQVLDEGRLTDSHGRTVDFRNTIIVLTSNIGSRYLSDISLEATTAHEYVNDEVRRTFRPEFLNRLDEIVIFEPLSQSDICQIVDLNIESLNKRIKDRRIVVTVSEDLRRWLSKSGYDVIYGARPLRRLIQREIEDRLAKLIIEGLIHDGQTASFDLSGGAVNAQVCS |
| 34 | sp|Q88VX7|CLPB\_LACPL | MNPEQFTESLQQALQQAQQIAQTRRHQEIGVPHLFKFLTQPGELVRQIFSEAGADLDQLQTELDRELDDIAVVSGGNVQYGGSMSSSLATLMQAADAKRKALGDDYLATDTLALALMDQTGDQLTKYLNQQGITAGQVKNAVDRIRGGQRVTSRNQEDQYQALEKYGVDLVKQARQGNQDPVIGRDEEILDVIRILSRKTKNNPVLIGEPGVGKTAIVEGLAQRIVRGDVPENLKDKTLFSLDMGSLIAGAKYRGEFEERLKAVLKEIKKSDGQIIMFIDEIHNIVGAGKTEGSMDAGNLLKPMLARGELHLIGATTLDEYRQYMEKDKALERRFQKVLVAEPSVEDTISILRGLKERFEIHHGVRIHDNALVAAAKLSDRYITDRYLPDKALDLVDEASAEIRVEMNSNPTELDQVNRQLMRLEVEEAALKKETDDASVKRLADVQKELASAKEKQRTLSERWDSEKKSLQALSDKKSALDKAKHDLENAENNYDLEQAAKLQHGTIPKLEQELKAMEANDHHEDWLVEESVTPDQIANVVSRMTGIPVAKLVAGEREKLLHLADHLHERVVGQDAAVDAVSDAVLRSRAGLQDPNRPLGSFMFLGPTGVGKTELAKALAENLFDADDHMVRIDMSEYMEKESVSRLVGAAPGYVGYEEGGQLTEAVRRNPYSIVLFDEIEKAHPDVFNILLQVLDDGRLTDGQGRTVDFKNTILIMTSNLGSELLLAGVDDQGHLSADTHQQVMQLVQSRFKPEFLNRIDDIIMFTPLQLGAIEEIVVKLIDRLSARLQDREITLKISDEAKKWIAKQGYEPAYGARPLRRFITNHVETPLAKEIIAGRVAPKSTVAINLMDDHLVFENQSTQPA |
| 35 | sp|Q7VNH1|CLPB\_HAEDU | MNFEKFTTKLQEALNEAQSLAVAKDNAYIEPVHLLYALVKQQDGAIAPLFTTLNVSTQTLINELELILNQLPQVTGTTTQASQQLIRLLNQTAKLAQQFNDSFISSELFLLAALDDHGSLGKLFKAFGLTKENVTQAISQMRGGESVNNQNAEQTRQALQKYTIDLTERAKTGKLDPVIGRDEEIRRTVQVLQRRTKNNPVLIGEPGVGKTAIVEGLAQRIVNGEVPEGLKNKRVLSLDMGALIAGAKYRGEFEERLKAVLNELAKEEGQVILFIDEIHTMVGAGKTDGAMDAGNLLKPSLARGELHCVGATTLDEYRQYIEKDAALERRFQKVLVDEPSVEDTIAILRGLKERYEIHHHVQITDPAIVAAATLSHRYISDRQLPDKAIDLIDEAASSLRMEIDSKPEPLDKLERRIIQLKLERQALQKEKDEASRQRLAKLDEEMTAKAQEYSALEEVWKAEKSALLGTQHLKTELENARIAMDQAKRADNFEKMSELQYGTIPALEKQLQDAIKREEENNDHHLLRTKVTEEEIAEVLSKATGIPITKMMEGEKEKLLRMEQVLHSRVIGQNEAVEAVANAILRSRAGLADPNKPIGSFLFLGPTGVGKTELSKTLANFLFDDENAIVRIDMSEFMEKHSVSRLVGAPPGYVGYEQGGYLTEAVRRRPYSVVLLDEVEKAHPDVFNILLQVLDDGRLTDGQGRTVDFRNTVVIMTSNLGAHLIQENAEITYLAMKEMVMSVVSQHFRPEFINRIDETVVFHPLDQQHIRAIANIQLQRLIRRLAERGYQVTISDTALDHISQAGFDSLFGARPLKRAIQQELENPLAQQILSGKLLPNNPVIIDYQDNHIIAKQ |
| 36 | sp|P0AE87|CPXP\_SHIFL | MRIVTAAVMASTLAVSSLSHAAEVGSGDNWHPGEELTQRSTQSHMFDGISLTEHQRQQMRDLMQQARHEQPPVNVSELETMHRLVTAENFDENAVRAQAEKMANEQIARQVEMAKVRNQMYRLLTPEQQAVLNEKHQQRMEQLRDVTQWQKSSSLKLLSSSNSRSQ |
| 37 | sp|P20721|CYSPL\_SOLLC | KLSKNKSDRYLPKVGDSLPESIDWREKGVLVGVKDQGSCGSCWAFSAVAAMESINAIVTGNLISLSEQELVDCDRSYNEGCDGGLMDYAFEFVIKNGGIDTEEDYPYKERNGVCDQYRKNAKVVKIDSYEDVPVNNEKALQKAVAHQPVSIALEAGGRDFQHYKSGIFTGKCGTAVDHGVVIAGYGTENGMDYWIVRNSWGANCRENGYLRVQRNVSSSSGLCGLAIEPSYPVKTGPNPPKPAPSPPSPVKPPTECDEYSQCAVGTTCCCILQFRRSCFSWGCCPLEGATCCEDHYSCCPHDYPICNVRQGTCSMSKGNPLGVKAMKRILAQPIGAFGNGGKKSSS |
| 38 | sp|Q6YX89|CYL4\_ORYSJ | MAPTPLFLLLLLTGVTAEPAHPGYAEGDGSSCDVAAVAVAERREEFDGGRIVDISHYYREEMPEWESADGTGGGFLRLVRSMRNGSDIANFSELRLTAHSGTHVDAPGHVFDHYYHAGFDVDTLDLAILNGPALLVDVPRDSNITANVMESLHIPKGVRRVLFRTLNTDRKLMWKKEFDTSYVGFMKDGAQWLIDNTDIRLVGVDYLSVGAFDECIPAHLVFLEKREVILVEALHLEHVTPGIYTLHCLPLRLRGSEGSPARCILIK |
| 39 | sp|Q6FW50|BIP\_CANGA | MNAIKRLLPVSLFLYALFVVLLPFQARAKDDVENYGTVIGIDLGTTYSCVAVMKNGKTEILANEQGNRITPSYVAFTDDERLIGDAAKNQIAANPTNTIFDIKRLIGLKFNDRSVQRDIKHLPFKVVDKDGKPVVQVKVKGEDRVFTPEEISGMILGKMKQIAEDYLGKKVTHAVVTVPAYFNDAQRQATKDAGTIAGLNVLRIVNEPTAAAIAYGLDKSDKEHQIIVYDLGGGTFDVSLLSIENGVFEVQATSGDTHLGGEDFDYKIVRQLIKTFKKKHGIDVSDNEKALAKLKREAEKAKRALSSQMSTRIEIDSFVDGIDLSETLTRAKFEELNLDLFKKTLKPVEKVLEDAGLEKKDIDDFVLVGGSTRIPKVQQLLESFFNGKKASKGINPDEAVAYGAAVQAGVLSGEEGVEDIVLLDVNALTLGIETTGGVMTPLIKRNTAIPTKKSQIFSTAVDNQPTVQIKVYEGERAMSKDNNLLGKFELTGIPPAPRGIPQIEVTFALDANGILKVSATDKGTGKSESITITNDKGRLTQDEIDRMVEEAEKFASEDAVLRTKIEARNKLENYAHSIKNQVEGDLAEKLEEEDKETLLDAANDTLEWLEDNFDSATTEEFEEKFEALSKTAYPITSKLYGGADGSAPVYDDDEDEDDDTDYFDDEL |
| 40 | sp|A5D7H5|CASC3\_BOVIN | MADRRRQRASQDTEDEESGASGSDSGGSPARGGGSCSGSVGGGGSGSLPSQRGGRAGALHLRRVESGGAKSAEESECESEDGIEGDAVLSDYESAEDSEGDDGEYSEEENSKVELKSEANDAANSSAKDEKGEEKPDTKGTVTGERQSGDGQESTEPVENKVGKKGPKHLDDDEDRKNPAYIPRKGLFFEHDLRGQTQEEEVRPKGRQRKLWKDEGRWEHDKFREDEQAPKSRQELIALYGYDIRSAHNPDDIKPRRIRKPRFGSPPQRDPSWIGERPNKSHRHQGPGGTLPPRTFINRNAAGTGRMSAPRNYSRSGGFKEGRTGFRPAEAGGQHAGRSGETVKHETSYRSRHLEQTPVRDPSPEADAQVLGSPEKEEVAPEIPNPAPDTAPPVPDRPVEKKSYSRARRTRIKAGDAGKVAEEVPPPPEGLTPAPPVPEATPPTPAKTGNWEAPVDSTTGGLEQDVAQLNITEQNWSPGQPAFLQSRELRGMPNHIHMGAGPPPQFNRMEEMGVQGGRAKRYSSQRQRPVPEPPAPPVHISIMEGHYYDPLQFQGPIYTHGDSPAPLPPQGMIVQPEMHLPHPGLHPHQTPAPLPNPGLYPPPVSMSPGQPPPQQLLAPTYFSAPGVMNFGNPSYPYAPGALPPPPPPHLYPNTQAPSQVYGGVTYYNPAQQQVQPKPSPPRRTPQPVTIKPPPPEVVSRGSS |
| 41 | sp|P15020|CH10\_MYCBO | MAKVNIKPLEDKILVQANEAETTTASGLVIPDTAKEKPQEGTVVAVGPGRWDEDGEKRIPLDVAEGDTVIYSKYGGTEIKYNGEEYLILSARDVLAVVSK |
| 42 | sp|Q40114|CHIA\_SOLCI | MKFNIVSPVALSCLFFLFLTGTLAQNAGSIVTRELFEQMLSFRNNDACPAKGFYTYDAFIAAANSFPGFGTTGDDTARKKEIAAFFGQTSHETKGGSAGTFTGGYCFVRQIDQSDRYYGRGPIQLTHQSNYERAGQGIGVGQDLVNNPDLVATDPIISFRTAIWFWMTAQDNKPSCHNVIIGQWTPSPADTAANRVPGYGVITNIINGGLECNMGPNTAVESRIGFYRRYCGMLNVPTGENLDCNNQKNFAQG |
| 43 | sp|O50304|CH10\_BACHD | MLKPLGDRVVIEQVETEEKTASGIVLPDTAKEKPQEGRVVAVGTGRVTENGEKIALEVKEGDSVIFSKYAGTEVKYDGKEYLILRESDILAIIG |
| 44 | sp|P29134|CH60\_ACIFR | PAKQVAFAEHAREKMLRGVNVLA |
| 45 | sp|Q9ZAB0|CLPP\_LACLM | MGYLVPTVIEQSSRGERAYDIYSRLLKDRIIMLTGPVEDGMANSIIAQLLFLDAQDNTKDIYLYVNTPGGSVSAGLAIVDTMNFIKSDVQTIVMGMAASMGTIIASSGTKGKRFMLPNAEYLIHQPMGGAGQGTQQTDMAIVAEQLLKTRKRLEQILADNSNRSLEQIHKDAERDHWMDAKETLEYGFIDEIMENNSLK |
| 46 | sp|Q9PGC1|CLPB\_XYLFA | MRMDKLTSRFQNALADAQSLAVGRDHTIIEPVHVFSALLDQQGGSTRPLLMQAGVNVPLLRERLTEILEALPKVSGQTVNVSPSNELSRLFHRTDKLAQQHGDQFMASEWFVLAVVDDSGGLGQALRAAGAEKKKIEAAIDKLRGGETVQTENAEEQRQALEKYTIDLTARAESGKLDPVIGRDEEIRRTIQVLQRRTKNNPVLIGEPGVGKTAIVEGLAQRIVNGEVPEGLRSKRLLSLDLGALIAGAKFRGEFEERLKGVLNDLAKNEGRVILFIDELHTMVGAGKADGAMDAGNMLKPALARGELHCIGATTLDEYRKYIEKDAALERRFQKVFVGEPTVEDTIAILRGLKEKYALHHGVEITDPAIVAAATLSNRYITDRQLPDKAIDLMDEAASRIRMEIDSKPEELDRLERRLIQLKIQREMLKKEKDEASKQRLADLERDIEVLDREFSDLEEVWRSEKAALQGATKIKESIEQAKLDLEAAQRRQDYAKMSEIQYGVLPALEKQLVAASQAEQHDFTLVQEKVTAEEIAEVVSRWTGIPVSKMLEGERDKLLRMEADLGRRVVGQEEAIKVVSDAVRRSRTGLSDPNRPSGSFLFLGPTGVGKTELCKALAEFLFDSQDAMVRIDMSEFMEKHSVARLIGAPPGYVGYEEGGYLTELVRRRPYSLILLDEVEKAHSDVFNILLQVLDDGRLTDGQGRTVDFRNTVIVMTSNLGSHQIQELSGDDSPEVYTQMKAAVMEVVQAHFRPEFINRLDDIVVFHPLDKAQIKQIARIQLQGLEKRLAESELKLDLDDRALELLGNVGFDPVYGARPLKRAIQSQLENPLAQQILAEAFVSGDTVQVGVDGGKLVFAKV |
| 47 | sp|O67588|CLPB\_AQUAE | MISENLFSAKSLEYLEKAKEIARENKDTKVDTDHLLIALLLDEKSPLSKYIEKRGIDRKEFLKRVSEYLENLNKQLEKAIEAEAQNLINLRTQIMEVKSNIGNVQTELSKIRKAKERILRELEYARRYGDWWTAETLELELRQLEATEQSIRRQLEQVEKSLSTVFAPEDVKAFLENKLSIDGLIRKALEKSPLIEQVKELGISPDRIIDKVAEKVFGKKPTFDYSQYLTQVLEKAQDKAVSEGEAQVQPSHISAALIEAKDTIGGKLINQVLGGEKEMKKDVTQELKEEEKSPLERFGVNLNELARQGKLDPVIGREREINQVIEILLRRTKNNPVLVGDPGVGKTAIVEGLAQRIVNKEVPPELQDKEIWSIDMASLLAGSKYRGEFEERLKALLDEVKEKGNVILFIDEIHTVVGAGAAEGAVDAANIMKPALARGEIRVIGATTVDEYRKYIEKDPALERRFQPVFVDEPTEEQTIEILKGLRPRLEQFHKVKISDEAIEAAVKLTKRYVTFRRLPDKAIDALDQAAARKKLKVIGTPPEIQEIERKIKALEEQIIEANLKGDYEKEAQLKIEKAKLEKEKQELLGKVGGVEAKIAELKKKIEELDEKIKEAAEKGDYEKEAELKIEKAKLEKELKKLEQEKSKELVVTWDDVAEVVSEWTGIPVSRLKEEEMQKLLKLEDELHKRVVDQEHAVKAVAEAIRRARAGLKDPKRPIASFLFLGPTGVGKTELSKALAELLFGDEDALIRLDMSEFKEEHSVAKLIGAPPGYVGYEEGGKLTEAVRRKPYSVILLDEIEKAHPRVLDLFLQVLDDGRLTDSHGRTVDFRNTVIIMTSNIGSQYLLNIPVDADEETLNREFEKAKEKVLEELKLYMRPEFINRIDEIIVFKPLTMRELSKIIDLLIANVNKRLAERNIKIELTEEAKKELVRRGYDPAFGARPLKRTIQKYVETPLADKIIRGEIKDGMTVVVDYKDGEFVFIPKEEYEKQKAEVSASSEEKKES |
| 48 | sp|Q7WSY8|CLPB\_PROFC | MDTEKLTTMSRDAVTAAVRLALTKGNPTAEPVHLLHAMLMVPESSVAPLLKAVGADAARVDGAASAAIDKLPSSSGSSVAQPQLSGALARVLADAETRADKLGDQFVSTEHLLIALAEVDSDAKNILASNGVTTAALEKAFNDSRGDKRITSAESEGGESALDKYSIDLTQRAKDGKLDPVIGRDSEIRRVAQVLSRRTKNNPVLIGEAGVGKTAVVEGLAQRIVKGDVPDSLKGRRLVSLDLASMVAGAKYRGEFEERLKAVLNEIKSAEGQIITFIDELHTVVGAGASEGSMDASNMLKPLLARGELRLIGATTLDEYREHIEKDPALERRFQQVYVGEPSVEDTVAILRGLRERYEAHHKVRITDSALVAAAQLSHRYITGRQLPDKAIDLVDEAASRLRMEIDSSPEEIDTLRRQVDRLTMEQFAVEKEEDPGSKARLARINSDLADAKEQLRGLEARWAAEKEGLNKVGELKTRIDALRTEADKHTRDGDLAKASEILYGEIPELNKQLDEASAAEEDSQGKSMVSEEVTSDDIAEVVSAWTGVPVGKMLEGESEKLLDMENRIGKRLVGQQAAVKAVSDAVRRSRAGISDPNRPTGSFMFLGPTGVGKTELAKALADFLFDDETAMVRIDMSEYMEKHSVSRLVGAPPGYVGYEEGGQLTEAVRRRPYSVVLLDEIEKAHPDVFNILLQVLDDGRLTDGQGRTVDFRNVILIMTSNLGSQFMADPSMSPEERRNQVMAVVKDHFRPEFLNRLDEIVLFDELSREDLDKIVDISLDKLNRRLAERRISIDVSAAAREWLARTGYDPVYGARPLRRLIQTTVEDQLARAMLAGTISDDQKVSVDMNQAGDGVDVKGEAPVSA |
| 49 | sp|Q7UM33|CLPB\_RHOBA | MAFRIDKLTTQAQNVVAEAQAQATSAGNAEIDPLHVLSAAVNQRDGITTPLLEKINVDVPKLKSLLTSELEKLPHASGMGQARVSAKLQAALEASATSAESLKDEYVSTEHLLVGLARTDNKAKNLLSLLGVSDNDLLTAMSQIRGSARVTDPNAESTYQALEKFGIDLTQLAQSGKLDPVIGRDNEIRRVIQVLSRRTKNNPVLIGQPGVGKTAIAEGLALRIFEGDVPQSLKGKKVVSLDMGALVAGAKFRGDFEERLKSVLREVKDSDGKVILFIDELHLVVGAGNAEGSADAANLLKPELARGALRCIGATTLDEYRQHIEKDAALERRFQPVFVGEPNVEDTVAILRGLKPRYESHHGVRITDSALVAAANLSDRYIADRFLPDKAIDLIDEAASRLAMEKESVPEPIDRLQRRLRQLELVHRQLVDEQEASAVDKRVEVEEEMESAKAELASLKEQWETEKMGLDDVQSVRQEVDQLQHRFAQLDADAKEKQLRGESPEDAYSEMLQVQSRLRELQARIDEAEKHDDSADQTKEEPGDEKRRLLRKEVTEEEIAEVVSTWTGVPVTRMMETERAKLLVMEERLHQRVVGQDEAVTAVSDAVRRSRSGLQDPNRPIGSFLFLGPTGVGKTELCKALAEVMFDDESAMVRIDMSEFMERHSVSRLIGAPPGYVGYEEGGKLTEAVRRRPYAVILLDEMEKAHPDVFNVLLQVLDDGRLTDGQGRTVNFTNTVVVMTSNVGSQVIQRVTEEGGGEDEMRQAVEDALKARFLPEFLNRIDDTVIFHPLQQTQIRRIVQLQLEELRSRLAANGLSFEITDAAIDQIAEVGYDPAYGARPLKRVIQREVQNPLASAILKNSYAEGTTIKIDHDGDQFVFSG |
| 50 | sp|P48859|CSPF\_STRCO | MASGTVKWFNSEKGFGFIAQDGGGPDVFAHYSNINAQGYRELQEGQAVTFDITQGQKGPQAENITPA |
| 51 | sp|P0A4D8|CSHA\_STRR6 | MKFNELNLSADLLAEIEKAGFVEASPIQEQTIPLALEGKDVIGQAQTGTGKTAAFGLPTLEKIRTEEATIQALVIAPTRELAVQSQEELFRFGRSKGVKVRSVYGGSSIEKQIKALKSGAHIVVGTPGRLLDLIKRKALKLQDIETLILDEADEMLNMGFLEDIEAIISRVPENRQTLLFSATMPDAIKRIGVQFMKAPEHVKIAAKELTTELVDQYYIRVKEQEKFDTMTRLMDVAQPELAIVFGRTKRRVDELTRGLKIRGFRAEGIHGDLDQNKRLRVLRDFKNGNLDVLVATDVAARGLDISGVTHVYNYDIPQDPESYVHRIGRTGRAGKSGQSITFVAPNEMGYLQIIENLTKKRMKGLKPASVEESFQSKKQVALKKIERDFADETIRANFEKFGKDARKLAAEFTPEELAMYILSLTVQDPDSLPEVEIAREKPLPFKPSGNGFGGKAKGGRGGRRGDDRRERDRRGNGRRDEFKKGSRGNDRFDKEKRYRKDNKKPRNTLSEKQTGFVIRNKGDK |
| 52 | sp|Q6Y9P5|COI1A\_ORYSJ | MGGEVPEPRRLNRALSFDDWVPDEALHLVMGHVEDPRDREAASRVCRRWHRIDALTRKHVTVAFCYAARPARLRERFPRLESLSLKGKPRAAMYGLIPDDWGAYAAPWIDELAAPLECLKALHLRRMTVTDADIAALVRARGHMLQELKLDKCIGFSTDALRLVARSCRSLRTLFLEECHITDKGGEWLHELAVNNSVLVTLNFYMTELKVAPADLELLAKNCKSLISLKMSECDLSDLISFFQTANALQDFAGGAFYEVGELTKYEKVKFPPRLCFLGLTYMGTNEMPVIFPFSMKLKKLDLQYTFLTTEDHCQIIAKCPNLLILEVRNVIGDRGLEVVGDTCKKLRRLRIERGDDDPGLQEEQGGVSQLGLTAVAVGCRELEYIAAYVSDITNGALESIGTFCKNLYDFRLVLLDRERQVTDLPLDNGVCALLRNCTKLRRFALYLRPGGLSDDGLSYIGQYSGNIQYMLLGNVGESDHGLIRFAVGCTNLQKLELRSCCFSERALSLAVLQMPSLRYIWVQGYRASQTGLDLLLMARPFWNIEFTPPSPESFNHMTEDGEPCVDSHAQVLAYYSLAGRRSDCPQWVIPLHPA |
| 53 | sp|Q8YG32|DEGPL\_BRUME | MSRARISNYRKGVAAVALSAALAGAFVVTGPLGALNEARAEAVHVTPPQQAGFADLVEKVRPAVVSVRVKKDVQETSNRGPQFFGPPGFDQLPDGHPLKRFFRDFGMEPRGDSRSDNRRGKANKPRPGHERPVAQGSGFVISEDGYVVTNNHVVSDGDAYTVVLDDGTELDAKLIGADPRTDLAVLKINAPKRKFVYVAFGDDNKVRVGDWVVAVGNPFGLGGTVTSGIVSARGRDIGAGPYDDFIQIDAAVNKGNSGGPAFDLSGEVIGINTAIFSPSGGSVGIAFAIPSSTAKQVVDQLIKKGSVERGWIGVQIQPVTKDIAASLGLAEEKGAIVASPQDDGPAAKAGIKAGDVITAVNGETVQDPRDLARKVANIAPGEKAALTVWRKNKAEEINVTIAAMPNDKGKSGSQSNDNDGGQGETLDSYGLTVVPSEDGKGVVVTDVDPDSDAADRGIRSGDVIVSVNNQTVKTAGDINKAITAAEKSGRKAVLLQLQSNDQSRFVALPINQE |
| 54 | sp|B1J4D7|DEGPL\_PSEPW | MSIPRLKSYLSMFAAVLMLGQVLSAQAEEALPDFTTLVEQASPAVVNISTKQKLPDRRIAAGQMPDLEGLPPMFREFFERNMPQQPRSPRGDRQREAQSLGSGFIISSDGYVLTNNHVVADADEIIVRLSDRSELQAKLVGTDPRTDVALLKVDGKNLPTVKLGDSEKLKVGEWVLAIGSPFGFDHSVTKGIVSAKGRTLPNDTYVPFIQTDVAINPGNSGGPLFNMNGEVVGINSQIFTRSGGFMGLSFAIPIDVAIDVSNQLKKDGKVSRGWLGVVIQEVNKDLAESFGLDKPAGALVAQVLEDGPAAKSGLQVGDVILSMNGQPIVMSADLPHLVGTLKAGAKAKLEIIRNGKRQNLDVTIGAMPDDDADIGTGTGADGSAERSSNRLGVSVSDLTAEQKKSLELKGGVVIKEVQDGPAAMIGLRPGDVISHLNNQAIASAKQFTEIAKDLPKNRSVSMRVLRQGRASFITFKLAE |
| 55 | sp|G5CTF8|AQP1\_MILTA | MQKMSEKPLYRAAENPTRNADRRAGRFEEEELISKTGRHPDMVIQFQDDADDQHTSHYEGNWRHYFHKKLHIKNRLIRDWLSESLAMFLFMSLLLGGAATAHFTGKQDDPMLTAVFHGFSAVFGIYVGAGVSGGIINPALTFAVALLGRVSWRKCLVLVSAQYFGSFIASAVVYLIYYESLQNYAKTADDNGEFLQKTAGIWSTFPKPYLSMTGAIFNQIFCTMLLSIGFLSISDHKNFRPTKGLFPFAVGLLIMTVFLAFSYSAGAAMNPARDLSPRLWSLIIGYGNEVFSHNDYKWFWIPWLFPYVGALFGAVMYQIFVGVHWPDKQSTKR |
| 56 | sp|O22553|CHMO\_BETVU | MAASATTMLLKYPTLCAMPNSSSSSNNNDLPTSIPLNNNNNLLSNKNKILQTPNINTSTNKIITKAVASPVFPTLKTTSNTPSSIRSLVHEFDPEIPPEDALTPPSTWYTEPAFYSHELERIFYKGWQVAGYSEQVKEKNQYFTGSLGNVEYLVSRDGQGELHAFHNVCTHRASILACGSGKKSCFVCPYHGWVYGLDGSLAKASKATETQNLDPKELGLAPLKVAEWGPFILISLDRSLDANADVGTEWIGKSAEDVKAHAFDPNLKFTHRSEFPMECNWKVFCDNYLDSSYHVPYAHKYYAAELDFDTYNTEMIEKCVIQRVGSSSNKPDGFDRLGTEAFYAFIYPNFAVERYGTWMTTMHVVPMGQRKCKLVVDYYLEKAMLDDKAYIDKGIAINDNVQKEDKVLCESVQRGLETPAYRSGRYVMPIEKGIHHFHCWLHETLQ |
| 57 | sp|Q87AX8|CLPB\_XYLFT | MRMDKLTSRFQNALADAQSLAVGRDHTIIEPVHVFSVLLDQQGGSTRPLLVQAGVNVPLLRERLTEILEALPKVSGQTVNVSPSNELSRLFHRTDKLAQQHGDQFMASEWFVLAVVDDSGGLGQALRAAGAEKKKIEAAIDKLRGGETVQTENAEEQRQALEKYTIDLTARAESGKLDPVIGRDEEIRRTIQVLQRRTKNNPVLIGEPGVGKTAIVEGLAQRIVNGEVPEGLRSKRLLSLDLGALIAGAKFRGEFEERLKGVLNDLAKNEGRVILFIDELHTMVGAGKAEGAMDAGNMLKPALARGELHCIGATTLDEYRKYIEKDAALERRFQKVFVGEPTVEDTIAILRGLKEKYALHHGVEITDPAIVAAATLSNRYITDRQLPDKAIDLMDEAASRIRMEIDSKPEELDRLERRLIQLKIQREMLKKEKDEASKQRLVDLERDIEVLDREFSDLEEVWRSEKAALQGATKIKESIEQAKLDLEAAQRRQDYAKMSEIQYGVLPALEKQLVAASQAEQHDFTLVQEKVTAEEIAEVVSRWTGIPVSKMLEGERDKLLRMEADLGRRVVGQDEAIKVVSDAVRRSRTGLSDPNRPSGSFLFLGPTGVGKTELCKALAEFLFDSQDAMVRIDMSEFMEKHSVARLIGAPPGYVGYEEGGYLTELVRRRPYSLILLDEVEKAHSDVFNILLQVLDDGRLTDGQGRTVDFRNTVIVMTSNLGSHQIQELSGDDSPEVYTQMKAAVMGVVQAHFRPEFINRLDDIVVFHPLDKAQIKQIARIQLRGLEKRLAESELKLDLDDRALELLGNVGFDPVYGARPLKRAIQSQLENALAQQILAGAFVSGDTVQVGVDGGKLVFSKV |
| 58 | sp|Q7VYV6|CLPB\_BORPE | MRFDKLTTKFQQALADAQSLAARNDHPYIEPVHVLAALLGDPDSGAASLLARAGVAVNRVQPAIDSALKGLPQVQGDDNVQVGRELQSVLVRTDKEAARRGDTYIASELFLLALADDKGDAGRILREAGLQKKALEAAIDAVRGGENVSGAEGESNREALSKYTLDLTERARQGKLDPVIGRDDEIRRTIQILQRRTKNNPVLIGEPGVGKTAIVEGLAQRIVNDEVPETLRGKRVLSLDLAALLAGAKFRGEFEERLKAVLKELAQDDGQNIVFIDELHTMAGAGKAEGAMDAGNMLKPALARGELHCIGATTLDEYRKYIEKDAALERRFQKVLVGEPDVESTIAILRGLQERYELHHGVEITDPAIVAAAELSHRYITDRFLPDKAIDLIDEAGARIRMEIDSKPEVMDRLDRRIIQLKIEREAVKKETDDASMRRLAVIEEELEKLQREYNDYEEIWKAEKAAVQGTQAIKEEIDRVRAEMAELQRKGQFDKLAELQYGKLPELEARLKAADSAEREAGESDSGKPRLLRTQVGAEEIAEVVSRATGIPVAKMMQGERDKLLRMEDFLHKRVVGQDEAVRLVSDAIRRSRAGLADPSRPYGSFLFLGPTGVGKTELTRALADFLFDSEEHMIRIDMSEFMEKHSVARLIGAPPGYVGYEEGGYLTEAVRRKPYSVILLDEVEKAHPDVFNVLLQVLDDGRLTDGQGRTVDFRNTVIVMTSNLGSQHIQSMAGKPYEVIKEVVWDELKHTFRPEFLNRIDEVVVFHGLEAQHIESIARIQLKRLGERLEKQEMRLDVSDAALAEIARSGFDPVFGARPLKRAIQQQIENPVAKLILEGVFGPRDVVPVDWQDGKFVFTRTLQ |
| 59 | sp|Q8YUL9|CLPB1\_NOSS1 | MQPTDPNKFTDKAWEVIVKSQDIVRAYQQQQLDVEHLILALIEDPTSLAVRILGRAEIDPIRLQQQLEAFTQRQTKVGKSDQLYLGRSLDVMLDRAEEIRERMKDGYISVEHMLLAFVDDERVGRKVLKGFNVDSAKIEASIKAVRGSQKVTDQNPESRYEALQKFGRDLTEQAKSGKLDPVIGRDDEIRRVIQVLSRRSKNNPVLIGEPGVGKTAIAEALAQRIVNGDVPESLKNRQLISLDIGSLIAGAKYRGEFEDRLKAVLREVTESNGNIVLFIDELHTVVGTGSNQQGAMDAGNLLKPMLARGELRCIGATTLDEFRKFIEKDAALERRFQQVYVDQPSVENTISILRGLKERYEVHHNVKISDSALVAAATLSARYIADRFLPDKAIDLVDEAAAQLKMEITSKPADLEAIDRRLMQLEMEKLSLAGEEKVAAPTKERLQRIELEITNLTEKQQDLNNQWQGEKQVLEAISLLKKEEDALRVQIEQAERAYDLNKAAQLKYGKLEGVQRDREAKEAKLLELQSQGSTLLREQVTEADIAEIVAKWTGIPVNRLLESERQKLLQLESHLHQRVIGQQEAVEAVSAAIRRARAGMKDPNRPIGSFLFMGPTGVGKTELARALAQFLFDADDALVRLDMSEYMEKHSVSRLVGAPPGYVGYEEGGQLSEAVRRHPYSVVLLDEVEKAHPDVFNILLQVLDDGRITDSQGRTVDFRNTVIVMTSNIGSEHILDVSGDDTQYETMRNRVMDALRSHFRPEFLNRVDDTILFHALSRSEMSHIIRIQLKRVESLLRDQKISFEISPAACDFLVEKGYDPVYGARPLKRAIQREIENPLATKILENTFISGDTIYIDQDENGLSFTNKAPVKVSVTQITT |
| 60 | sp|P51777|CSPD\_BACSU | MQNGKVKWFNNEKGFGFIEVEGGDDVFVHFTAIEGDGYKSLEEGQEVSFEIVEGNRGPQASNVVKL |
| 61 | sp|Q4L7W0|CSHA\_STAHJ | MQNFKELGISDKTVETLEAMGFKEPTPIQKDSIPYTLEGKDILGQAQTGTGKTGAFGIPLIEKVVGQSGVQALILAPTRELAMQVAEQLREFSRGQNVQVVTVFGGMPIDRQIKALKRGPQIVVGTPGRVIDHLNRRTLKTNGIHTLILDEADEMMNMGFIDDMRFIMDKIPAEQRQTMLFSATMPKAIQTLVQQFMKSPQIVKTMNNEMSDPQIDEYYTIVKELEKFDTFTNFLDVHQPELAIVFGRTKRRVDELTSALLSKGYKAEGLHGDITQAKRLEVLKKFKNDQIDILVATDVAARGLDISGVSHVYNFDIPQDTESYTHRIGRTGRAGKEGIAVTFVNPIEMDYIRQIEDSNGRRMNALRPPHRKEVLKAREDDIKDKVKNWMSRESEARLKRISSELLEEYDSTELVASLLQELVEANDEVEVQLTFEKPLARKNRQGKGNGSRRGGKRNNKFDNKNKRSKGNFNKKKGKKTDRRERQDKGRSTMKGRTFADLQK |
| 62 | sp|Q2G0P8|CTSR\_STAA8 | MHNMSDIIEQYIKRLFEESNEDVVEIQRANIAQRFDCVPSQLNYVIKTRFTNEHGYEIESKRGGGGYIRITKIENKDATGYINHLLQLIGPSISQQQAYYIIDGLLDKMLINEREAKMIQAVIDRETLSMDMVSRDIIRANILKRLLPVINYY |
| 63 | sp|P80239|AHPC\_BACSU | MSLIGKEVLPFEAKAFKNGEFIDVTNEDLKGQWSVFCFYPADFSFVCPTELEDLQEQYAALKELGVEVYSVSTDTHFVHKGWHDSSEKISKITYAMIGDPSQTISRNFDVLDEETGLADRGTFIIDPDGVIQTVEINAGGIGRDASNLVNKVKAAQYVRQNPGEVCPAKWEEGGETLTPSLDLVGKI |
| 64 | sp|P55202|ANPRB\_ANGJA | MDLGHSLFVVFTCFLMARCRTEIGKNITVVVMLPDNHLKYSFAFPRVFPAIRMAHDDIQKKGKLLRGYTINLLNHSTESQGAGCSESQAQIMAVDTKLYEKPDAFFGPGCVYSVASVGRFVNHWKLPLITAWAPAFGFDSKEEYRTIVRTGLSTTKLGEFAHYLHSHFNWTTRAFMLFHDLKVDDRPYYFISEGVFLVLRRENITVEAVPYDDQKNSDYREMISSLKSNGRIVYICGPLDTFLEFMRIFQNEGLPPEDYAIFYLDMFAKSILDKDYKPWESSDINWTDPIKLFKSVFVITAKEPDNPEYKAFQRELHARAKQEFSVQLEPSLEDIIAGCFYDGFMLYAQALNETLAEGGSQNDGINITQKMQNRRFWGVTGLVSTDKNNDRDIDFNLWAMTNHKTGQYGIVAYYNGTNKEIVWSETEKIQWPKGSPPLDNPPCVFSMDEPFCNEDQLPVLGIVAVGSGLALIIFGISSFLIYRKLKLEKELAGMLWRIRWEELQFESPNKYHKCAGSRLTISQRGSSYGSLITAHGKYQLFAKTGYFKGNLVAIKHVNKKRIELTRQVLFELKHMRDVQFNHLTRFIGACIDPPNICIVTEYCPRGSLQDILENESINLDWMFRYSLINDIVKGMNFLHNSYIGSHGNLKSSNCVVDSRFVLKITDYGLASFRSSCENEDSHALYAKKLWTAPELLIYDRHPPQGTQKGDVYSFGIILQEIALRNGPFYVDGMDLSPKEIVQKVRNGQKPYFRPTTDTSCHSEELSILMEGCWAEDPADRPDFSYIKIFVMKLNKEGSTSILNNLLSRMEQYANNLENLVEERTQAYLEEKRKAENLLYQILPHSVAEQLKRGETVQAEAFDSVTIYFSDIVGFTSMSAESTPLQVVTLLNDLYTCFDAIIDNFDVYKVETIGDAYMVVSDSQSRNGKLHAREIAGMSLALLEQVKTFKIRHRPNDQLRLRIGIHTGPVCAGVVGLKMPRYCLFGDTVNTASRMESNGEALKIHLSSATKEVLDEFGYFDLQLRGDVEMKGKGKMRTYWLLGEKTDVYVI |
| 65 | sp|Q8WN62|ANGI\_SAGOE | MVMGLHLLFLVFILGLGLTPPTLAQNDLRYNRFLEEHYDPKTKNGNDRYCDKMMRLRNMISPCKAINTFIHGKKESIKAICGTENGVPYNGNKRKSKSAFQVTICKHRGGSPRPPCQYRATAGSRNVVVACENGLPVHLDESIFRP |
| 66 | sp|P06610|BTUE\_ECOLI | MQDSILTTVVKDIDGEVTTLEKFAGNVLLIVNVASKCGLTPQYEQLENIQKAWVDRGFMVLGFPCNQFLEQEPGSDEEIKTYCTTTWGVTFPMFSKIEVNGEGRHPLYQKLIAAAPTAVAPEESGFYARMVSKGRAPLYPDDILWNFEKFLVGRDGKVIQRFSPDMTPEDPIVMESIKLALAK |
| 67 | sp|Q93XE1|CHMO\_AMATR | MASSASMLINYPTTFCGVRNSSNPNNDQFSDQINIPSSLNNNINISKITSKTNKIIPKAVASPVIPSSINSNNITTTTPNIKRIIHEFDPKVPAEDGFTPPSTWYTDPSLYSHELDRIFSKGWQVAGYSDQIKEPNQYFTGSLGNVEYLVCRDGQGKVHAFHNVCTHRASILACGTGKKSCFVCPYHGWVFGLDGSLMKATKTENQVFDPKELGLVTLKVAIWGPFVLISLDRSGSEGTEDVGKEWIGSCAEEVKKHAFDPSLQFINRSEFPMESNWKVFCDNYLDSAYHVPYAHKYYAAELDFDTYKTDLLEKVVIQRVASSSNKPNGFDRLGSEAFYAFIYPNFAVERYGPWMTTMHIGPLGPRKCKLVVDYYLENAMMNDKPYIEKSIMINDNVQKEDVVLCESVQRGLETPAYRSGRYVMPIEKGIHHFHCWLHQTLN |
| 68 | sp|P61603|CH10\_BOVIN | MAGQAFRKFLPLFDRVLVERSAAETVTKGGIMLPEKSQGKVLQATVVAVGSGSKGKGGEIQPVSVKVGDKVLLPEYGGTKVVLDDKDYFLFRDGDILGKYVD |
| 69 | sp|A5CDL9|CH60\_ORITB | MSKQIVHSDQCRKKIIEGINVVANAVGITLGPKGRCVAIEQSYGPPKITKDGVSVAKAIQLKDKSLNVGAQFVISVASKTADVAGDGTTTATVIADAAVRELNKAEVAGIDIQEVRKGAEKAVEAVIADVRKNSSPVKNEEEIAQVATVSSNGDREIGEKIANAMKQVGQEGVITVEDSKNFNFEVEVVKGMRFDRGYISQYFATNREKMITEFENPYILLLDQKVSTVQPLVPVLEAVAHTGKPLVLIADDVDGEALTALILNNLKGSIKVVAVKAPGFGDRKKEMLEDIAILTNGEVITEQLGIKLEKVNDTSKLGTANRVIVTKDHTTIVHDKNNSDIEKKVNSRCEQIREAIKDTTSDYEKEKLQERLAKLRNGVAVLKVGGATEVEQKERKDRVEDALHATRAAVEEGIVPGGGVALFYASRVLDSLKFDNEDQRVGINIIKKVLEAPVRQIVKNAGGKEDVVVNELSKSNDKNRGFDARTMQYVDMIKAGIVDPTKVVRTALQDAFSVASLVIATSAMITDHEEDNNTNRSGGGVGGGHHGGMGGMDF |
| 70 | sp|Q8EBE6|CLPB\_SHEON | MRLDRMTNKFQLAISDAQSLALGRDHQFIEPLHLMMALLNQDSGSIHPLLTQAGIRVSALRSLLSQELERLPQVEGTGGDVQLSQGLIRLLNLCDKLAQKRKDKYISSELFVLAALEGCDALAQCLKKSGATKELMEQTIEQVRGGQKVDDPNAEDQRQALKKFTVDLTERAEQGKLDPVIGRDDEIRRTIQVLQRRTKNNPVLIGEPGVGKTAIVEGLAQRIVNGEVPEGIKNKRVLSLDMGALIAGAKYRGEFEERLKAVLNELAQEEGQVILFIDELHTMVGAGKGDGAMDAGNMLKPALARGDLHCVGATTLDEYRQYIEKDAALERRFQKVLVDEPSVEDTIAILRGLKERYELHHHVEITDPAIVAAATMSHRYVSDRKLPDKAIDLIDEAASSIRMQMDSKPESLDRLERRAIQLKLEEQALAKENDEASRRRLDHLQEELRDVEAKASELSEIWRTEKAALAGTQHIKADLEQARLDLEVARRAGDLTRMSELQYGRIPELEKQLDLASQAEMQDMTLLRNKVTDLEIAEVLSKATGIPVSKMLEGEREKLLQMEVALHERVIGQNEAVDAVANAIRRSRAGLADPNRPIGSFLFLGPTGVGKTELCKSLARFLFDSESALVRIDMSEFMEKHAVSRLVGAPPGYVGYEEGGYLTEAVRRKPYSVILLDEVEKAHPDVFNILLQVLDDGRLTDGQGRTVDFRNTVIIMTSNLGSDIIQEGFGHLSYSEMKSAVMNVVTHSFRPEFLNRIDESVVFHPLDAENIKHIASIQIASLRKRLAEKDYTLEITDEALSLIAEIGFDPVYGARPLKRALQQEMENPLAQKLLRGDLLPGKPIKVSCVDGELVFEQ |
| 71 | sp|Q8DTC7|CLPB\_STRMU | MIDKMTQLVEDSLEEAKELAIAHRNYQLDIPHLWAVLVKPDQFAFQFYQSLEINTNQLIEIINKEIDKIPVLSSTEKSSYARLYSQRLKNLLDDAHQEMIDLKDQVLTVEHLILALFNQQRNPITVFLLEQGLNKEKLYQKMHRIRKGKPAISSSQETIYDALEKYAVNLNQRALDEPVNKIIGRQDEMNDIIRILSRKNKNNAVLVGHSGVGKTAIIEGFVQRLVKNQVPKNLQGKVIYSLDIGALLAGTKYRGEFEERFKALLNDIIDSNGQIILFIDEIHSIVSAGRTEGSVDAASILKPLLARGKIRIIGSTTHAEYRESIEYDRALERRFQRILVHEPDLDYTMEILKGLKPIYENFHGVRLEEDGLEAAASLSKRYISDRFLPDKALDLIDEACAAKRLASHAYPVQMTNLSQQLISEKIRLLRLTDSDTDDKFKLNNHLEQLEEQKSQLLANWQRERELLDQVQELRSHLTALEEQANLALENNQVADYVRLEDEEIRKCHQKMTALEKERLDSQKIINVTVTREDIAAVVERLTGIKVQGVMENERDRLLHLEELLHQKIVGQDQAVQKVSQAIIRSRAGIQNPKRPIGSFLFLGPTGVGKTALAKRLAEVLFGSELEMVRLDMSEYMEKHAVSRLVGPPPGYVGYEEGGQLTEAVRQRLYSIVLLDEIEKAHPDVFNTLLQVLDEGRLTDSKGRTIDFKNTILIMTSNIGSTNILQSLQDSGCITSEVRYKVLDELNHSFRPEFLNRIDETVLFNALSEKDMTGVVKVMVSDLQARLLEQDIHLTLTESVYILLAKEGFDAAFGARPMQRTIMQKLENPLALYLIQNQKNKEKETFVTVSVKDKKLKFTFS |
| 72 | sp|P63286|CLPB\_ECOL6 | MRLDRLTNKFQLALADAQSLALGHDNQFIEPLHLMSALLNQEGGSVSPLLTSAGINAGQLRTDINQALNRLPQVEGTGGDVQPSQDLVRVLNLCDKLAQKRGDNFISSELFVLAALESRGTLADILKAAGATTANITQAIEQMRGGESVNDQGAEDQRQALKKYTIDLTERAEQGKLDPVIGRDEEIRRTIQVLQRRTKNNPVLIGEPGVGKTAIVEGLAQRIINGEVPEGLKGRRVLALDMGALVAGAKYRGEFEERLKGVLNDLAKQEGNVILFIDELHTMVGAGKADGAMDAGNMLKPALARGELHCVGATTLDEYRQYIEKDAALERRFQKVFVAEPSVEDTIAILRGLKERYELHHHVQITDPAIVAAATLSHRYIADRQLPDKAIDLIDEAASSIRMQIDSKPEELDRLDRRIIQLKLEQQALMKESDEASKKRLDMLNEELSDKERQYSELEEEWKAEKASLSGTQTIKAELEQAKIAIEQARRVGDLARMSELQYGKIPELEKQLEAATQLEGKTMRLLRNKVTDAEIAEVLARWTGIPVSRMMESEREKLLRMEQELHHRVIGQNEAVDAVSNAIRRSRAGLADPNRPIGSFLFLGPTGVGKTELCKALANFMFDSDEAMVRIDMSEFMEKHSVSRLVGAPPGYVGYEEGGYLTEAVRRRPYSVILLDEVEKAHPDVFNILLQVLDDGRLTDGQGRTVDFRNTVVIMTSNLGSDLIQERFGELDYAHMKELVLGVVSHNFRPEFINRIDEVVVFHPLGEQHIASIAQIQLKRLYKRLEERGYEIHISDEALKLLSENGYDPVYGARPLKRAIQQQIENPLAQQILSGELVPGKVIRLEVNEDRIVAVQ |
| 73 | sp|P25804|CYSP\_PEA | MDRRFLFALFLFAAVATAVTDDTNNDDFIIRQVVDNEEDHLLNAEHHFTSFKSKFSKSYATKEEHDYRFGVFKSNLIKAKLHQNRDPTAEHGITKFSDLTASEFRRQFLGLKKRLRLPAHAQKAPILPTTNLPEDFDWREKGAVTPVKDQGSCGSCWAFSTTGALEGAHYLATGKLVSLSEQQLVDCDHVCDPEQAGSCDSGCNGGLMNNAFEYLLESGGVVQEKDYAYTGRDGSCKFDKSKVVASVSNFSVVTLDEDQIAANLVKNGPLAVAINAAWMQTYMSGVSCPYVCAKSRLDHGVLLVGFGKGAYAPIRLKEKPYWIIKNSWGQNWGEQGYYKICRGRNVCGVDSMVSTVAAAQSNH |
| 74 | sp|P27043|ANGI\_CHICK | MAMSSLWWTAILLLALTVSMCYGVPTYQDFLRTHVDFPKTSFPNIAAYCNVMMVRRGINVHGRCKSLNTFVHTDPRNLNTLCINQPNRALRTTQQQLPVTDCKLIRSHPTCSYTGNQFNHRVRVGCWGGLPVHLDGTFP |
| 75 | sp|O04479|AS2\_ARATH | MASSSTNSPCAACKFLRRKCQPECVFAPYFPPDQPQKFANVHKVFGASNVTKLLNELHPSQREDAVNSLAYEADMRLRDPVYGCVGVISLLQHQLRQLQIDLSCAKSELSKYQSLGILAATHQSLGINLLAGAADGTATAVRDHYHHHQFFPREQMFGGLDVPAGNNYDGGILAIGQITQFQQPRAAAGDDGRRTVDPS |
| 76 | sp|Q99170|BIP\_YARLI | MKFSMPSWGVVFYALLVCLLPFLSKAGVQADDVDSYGTVIGIDLGTTYSCVGVMKGGRVEILANDQGSRITPSYVAFTEDERLVGDAAKNQAANNPFNTIFDIKRLIGLKYKDESVQRDIKHFPYKVKNKDGKPVVVVETKGEKKTYTPEEISAMILTKMKDIAQDYLGKKVTHAVVTVPAYFNDAQRQATKDAGIIAGLNVLRIVNEPTAAAIAYGLDHTDDEKQIVVYDLGGGTFDVSLLSIESGVFEVLATAGDTHLGGEDFDYRVIKHFVKQYNKKHDVDITKNAKTIGKLKREVEKAKRTLSSQMSTRIEIESFFDGEDFSETLTRAKFEELNIDLFKRTLKPVEQVLKDSGVKKEDVHDIVLVGGSTRIPKVQELLEKFFDGKKASKGINPDEAVAYGAAVQAGVLSGEDGVEDIVLLDVNPLTLGIETTGGVMTKLINRNTNIPTKKSQIFSTAVDNQSTVLIQVFEGERTMSKDNNLLGKFELKGIPPAPRGVPQIEVTFELDANGILRVTAHDKGTGKSETITITNDKGRLSKDEIERMVEEAERFAEEDALIRETIEAKNSLENYAHSLRNQVADKSGLGGKISADDKEALNDAVTETLEWLEANSVSATKEDFEEKKEALSAIAYPITSKIYEGGEGGDESNDGGFYADDDEAPFHDEL |
| 77 | sp|P39297|BSMA\_ECOLI | MVSRKRNSVIYRFASLLLVLMLSACSALQGTPQPAPPVTDHPQEIRRDQTQGLQRIGSVSTMVRGSPDDALAEIKAKAVAAKADYYVVVMVDETIVTGQWYSQAILYRK |
| 78 | sp|Q2YUD7|CH10\_STAAB | MLKPIGNRVIIEKKEQEQTTKSGIVLTDSAKEKSNEGVIVAVGTGRLLNDGTRVTPEVKEGDRVVFQQYAGTEVKRDNETYLVLNEEDILAVIE |
| 79 | sp|Q07200|CH10\_GEOSE | MLKPLGDRVVIEVIETEEKTASGIVLPDTAKEKPQEGRVVAVGKGRVLDSGERVAPEVEVGDRIIFSKYAGTEVKYDGKEYLILRESDILAVIG |
| 80 | sp|P0C0Z8|CH10\_CHLTR | MSDQATTLKIKPLGDRILVKREEEASTARGGIILPDTAKKKQDRAEVLALGTGKKDDKGQQLPFEVQVGNIVLIDKYSGQELTVEGEEYVIVQMSEVIAVLQ |
| 81 | sp|Q255A0|CH10\_CHLFF | MSDQATALKIKPLGDRILVKREEEDTTSHGGIILPDTAKKKQDRAEVLALGTGKRDKDGQILPFEVKVGDIVLIDKYAGQELTIEGEEYVIVQESEVMAVLN |
| 82 | sp|Q3KMQ8|CH10\_CHLTA | MSDQATTLKIKPLGDRILVKREEEASTARGGIILPDTAKKKQDRAEVLALGTGKKDDKGQQLPFEVQVGDIVLIDKYSGQELTVEGEEYVIVQMSEVIAVLQ |
| 83 | sp|P0A343|CH10\_BRUSU | MADIKFRPLHDRVVVRRVESEAKTAGGIIIPDTAKEKPQEGEVVAAGAGARDEAGKLVPLDVKAGDRVLFGKWSGTEVKIGGEDLLIMKESDILGIVG |
| 84 | sp|P47597|CLPB\_MYCGE | MNINFTPAGENRNFLQEIGRNINDEVLKNKVDPIIGRDNEIRRLIEILSRKSKNNPVLIGEPGVGKTAIVEGFVRRVVSNDVPLNLRDVEIYELSLSGLIAGTKFQGEFEKRINTILKQVKESNGRIILFIDEIHQIVGLGRNSSSGAMDIANILKPMLARGEIKVIGATTLKEYREYIEKDGALERRFQKILINEPSSQEALTIMRGLKTRWELFHNITIFDSALVAAVEMSTRYINERNLPDKAIDLIDEAAAKIKTEMSSEPVAIDSLKREIINLETEYAALKQDKENDNKQSKKEYLEKLKKQLDALKQKRDSLINEWKKEKADFENINKLKKEIEEFQTKLETYQSEGNYESASKILYSDIPRLKKELESAQQKYATSKHDLFKTEVSENEIAEVISQTTGIPLKKLLESEKDKLLHLGDEIKKRVKGQDEAIDAVVNTVIRGRVNINDPNKPIGSFIFLGSTGVGKTELAKSLAEVLFDNEKALIRFDMSEYMEKHSVAKLIGAPPGYIGYEQSGLLTEAVRRKPYSVLLFDEIEKAHPDVTNVLLQVLDDGTLKDSQGRVVNFKNTLIIMTSNLGSNFLLEGKKDLAIQSLKKHFRPEFINRIDEIVFFNVLEKDTVLSIINSLLAQLSKRLNKQNLFFNFDSNLTEFIYKSSFDQQFGARPIKRFIDHSVATLIAKYILQGKIKKGVGYNIAVVKDNITITQNNKS |
| 85 | sp|Q7WHB6|CLPB\_BORBR | MRFDKLTTKFQQALADAQSLAARNDHPYIEPVHVLAALLGDPDSGAASLLARAGVAVNRVQPAIDSALKGLPQVQGEDNVQVGRELQSVLVRTDKEAARRGDTYIASELFLLALADDKGDAGRILREAGLQKKALEAAIDAVRGGENVSGAEGESNREALSKYTLDLTERARQGKLDPVIGRDDEIRRTIQILQRRTKNNPVLIGEPGVGKTAIVEGLAQRIVNDEVPETLRGKRVLSLDLAALLAGAKFRGEFEERLKAVLKELAQDDGQNIVFIDELHTMVGAGKAEGAMDAGNMLKPALARGELHCIGATTLDEYRKYIEKDAALERRFQKVLVGEPDVESTIAILRGLQERYELHHGVEITDPAIVAAAELSHRYITDRFLPDKAIDLIDEAGARIRMEIDSKPEVMDRLDRRIIQLKIEREAVKKETDDASMRRLAVIEEELEKLQREYNDYEEIWKAEKAAVQGTQAIKEEIDRVRAEMAELQRKGQFDKLAELQYGKLPELEARLKAADSAEREAGESDSGKPRLLRTQVGAEEIAEVVSRATGIPVAKMMQGERDKLLRMEDFLHKRVVGQDEAVRLVSDAIRRSRAGLADPSRPYGSFLFLGPTGVGKTELTRALADFLFDSEEHMIRIDMSEFMEKHSVARLIGAPPGYVGYEEGGYLTEAVRRKPYSVILLDEVEKAHPDVFNVLLQVLDDGRLTDGQGRTVDFRNTVIVMTSNLGSQHIQSMAGKPYEVIKEVVWDELKHTFRPEFLNRIDEVVVFHGLEAQHIESIARIQLKRLGERLEKQEMRLDVSDAALAEIARSGFDPVFGARPLKRAIQQQIENPVAKLILEGVFGPRDVVPVDWQDGKFVFTRTLQ |
| 86 | sp|Q81TT4|CLPB\_BACAN | MDLNQMTTKTQEAIMSAQSLAVSHHHQEVDTVHLLFTLLEEQDGLAVRIFQKMNVDIEALKQGVENLIKKKPSVTGSGAEAGKLYITGALQQLLVRAGKEAEKLQDDYISVEHVLLAFTEEKGDISQLFTRFHITKDNLLQSLMTVRGNQRVTSQNPEATYEALEKYGRDLVAEVKAGKIDPVIGRDSEIRRVIRILSRKTKNNPVLIGEPGVGKTAIVEGLAQRIVKKDVPEGLKDRTIFALDMSALVAGAKFRGEFEERLQAVLNEIKKSEGRILLFIDELHTIVGAGKTEGAMDAGNMLKPMLARGELHCIGATTLDEYRKYIEKDPALERRFQQVLAEEPTVEDTISILRGLKERFEIYHGVNIHDRAIVAASVLSDRYISDRFLPDKAIDLVDEACATIRTEIDSMPTELDEVTRRIMQLEIEEAALGKEKDFGSQERLKTLQRELSDLKEVASSMRAKWEKEKEDIHKVRDLREHLERLRRELEEAEGNYDLNRAAELRHGKIPAIEKELKEAEEMGANNKQENRLLREEVSEEEIADIVSRWTGIPVAKLVEGEREKLLRLEQILSERVIGQEEAVSLVSDAVLRARAGIKDPNRPIGSFIFLGPTGVGKTELAKTLAQSLFDSEEQMIRIDMSEYMEKHAVSRLIGAPPGYVGYEEGGQLTEAVRRKPYSVILLDEIEKAHPEVFNILLQMLDDGRITDSQGRTVDFKNTVIIMTSNIGSAHLLDGLEEDGSIKEESRELVMGQLRGHFRPEFLNRVDEIILFKPLTTNEIKGIVDKIVKELQGRLADRHITVKLTEAAKEFVVEAGFDPMYGARPLKRYVQRQVETKLARELIAGTITDNSHVVVDVENNELVVHVK |
| 87 | sp|Q889C2|CLPB\_PSESM | MRIDRLTSKLQLALSDSQSLAVGLDHPAIEPAHLMQALLEQQGGSIKPLLLQVGFDINSLRKELSAELDRLPKIQNPTGDVNMSQDLARLLNQADRLAQQKGDQFISSELVLLAAMDENSKLGKLLLGQGVSKKALENAINNLRGEGAVNDPNIEESRQALDKYTVDLTKRAEEGKLDPVIGRDDEIRRTIQVLQRRTKNNPVLIGEPGVGKTAIAEGLAQRIINGEVPDGLRGKRLLSLDMGALIAGAKYRGEFEERLKSLLNELSKQEGQIILFIDELHTMVGAGKGEGSMDAGNMLKPALARGELHCVGATTLNEYRQYIEKDAALERRFQKVLVDEPSEEDTIAILRGLKERYEVHHKVAITDGAIIAAAKLSHRYITDRQLPDKAIDLIDEAASRIRMEIDSKPEVLDRLERRLIQLKVEAQALKKEKDEAAIKRLEKLQEEIVRLEKEYADLEEIWTSEKAEVTGSAQIQQKIEQSRQELEAARRRGDLNRMAELQYGIIPDLERSLQMVDQHGKPENQLLRSKVTEEEIAEVVSKWTGIPVSKMLEGEREKLLRMETLLHNRVIGQEEAVVAVSNAVRRSRAGLSDPNRPSGSFMFLGPTGVGKTELCKALAEFLFDTEEAMVRIDMSEFMEKHSVARLIGAPPGYVGYEEGGYLTEAVRRKPYSVILLDEVEKAHSDVFNILLQVLEDGRLTDSHGRTVDFRNTVIVMTSNLGSAQIQELVGDREAQRAAVMDAVSTHFRPEFVNRIDEVVIFEPLARDQIAGITDIQLGRLRKRLAERELTMVLSPEALDKLIAVGYDPVYGARPLKRAIQRWIENPLAQLILSGGFEPGSSITGKVVDDEIVFG |
| 88 | sp|Q9LF37|CLPB3\_ARATH | MATATTTATAAFSGVVSVGTETRRIYSFSHLQPSAAFPAKPSSFKSLKLKQSARLTRRLDHRPFVVRCEASSSNGRLTQQEFTEMAWQSIVSSPDVAKENKQQIVETEHLMKALLEQKNGLARRIFSKIGVDNTKVLEATEKFIQRQPKVYGDAAGSMLGRDLEALFQRARQFKKDLKDSYVSVEHLVLAFADDKRFGKQLFKDFQISERSLKSAIESIRGKQSVIDQDPEGKYEALEKYGKDLTAMAREGKLDPVIGRDDEIRRCIQILSRRTKNNPVLIGEPGVGKTAISEGLAQRIVQGDVPQALMNRKLISLDMGALIAGAKYRGEFEDRLKAVLKEVTDSEGQIILFIDEIHTVVGAGATNGAMDAGNLLKPMLGRGELRCIGATTLDEYRKYIEKDPALERRFQQVYVDQPTVEDTISILRGLRERYELHHGVRISDSALVEAAILSDRYISGRFLPDKAIDLVDEAAAKLKMEITSKPTALDELDRSVIKLEMERLSLTNDTDKASRERLNRIETELVLLKEKQAELTEQWEHERSVMSRLQSIKEEIDRVNLEIQQAEREYDLNRAAELKYGSLNSLQRQLNEAEKELNEYLSSGKSMFREEVLGSDIAEIVSKWTGIPVSKLQQSERDKLLHLEEELHKRVVGQNPAVTAVAEAIQRSRAGLSDPGRPIASFMFMGPTGVGKTELAKALASYMFNTEEALVRIDMSEYMEKHAVSRLIGAPPGYVGYEEGGQLTETVRRRPYSVILFDEIEKAHGDVFNVFLQILDDGRVTDSQGRTVSFTNTVIIMTSNVGSQFILNNTDDDANELSYETIKERVMNAARSIFRPEFMNRVDEYIVFKPLDREQINRIVRLQLARVQKRIADRKMKINITDAAVDLLGSLGYDPNYGARPVKRVIQQNIENELAKGILRGDFKEEDGILIDTEVTAFSNGQLPQQKLTFKKIESETADAEQEEAAFSK |
| 89 | sp|Q5DWG0|CRJ36\_CRYJA | GSIPFWIALIASFSVFLQGVKVKAPTFEITNKCPYTVWAAAFPGGGKQLAQGQSWSVQPDAGTSTGRIWGRTDCSFDGSGRGTCQSGDCNGTLNCQGDASAPVTLVEYTHNPSMNLDFYDISLLDGFNLPLSITPTSTNPNCKGIITCLSDINSQCPNELKVSGGCLSACVKYNTDDHCCRGANCNQTLYSRFFKEQCPQAYSYAKDDVTSAFTCPSGTDYKIVFCGKSDHIFALYLYITINNEE |
| 90 | sp|Q02066|AAIP\_WHEAT | GSGNFGVAKLVRDVRTKEHFAVKFIERGHKIDEHVQREIMNHRSLKHPNIIRFKEVVLTPTHLAIVMEYASGGELFQRICNAGRFSEDEGRFFFQQLISGVSYCHSMQVCHRDLKLENTLLDGSVAPRLKICDFGYSKSSVLHSQPKSTVGTPAYIAPEVLSRREYDGKVADVWSCGVTLYVMLVGAYPFEDPDEPRNFRKTITRILSVQYSVPDYVRVSMDCIHLLSRIFVGNPQQRITIPEIKNHPWFLKRLPVEMTDEYQRSMQLADMNTPSQSLEEAMAIIQEAQKPGDNALGVAGQVACLGSMDLDDIDFDIDDIDVESSGDFVCPL |
| 91 | sp|Q12449|AHA1\_YEAST | MVVNNPNNWHWVDKNCIGWAKEYFKQKLVGVEAGSVKDKKYAKIKSVSSIEGDCEVNQRKGKVISLFDLKITVLIEGHVDSKDGSALPFEGSINVPEVAFDSEASSYQFDISIFKETSELSEAKPLIRSELLPKLRQIFQQFGKDLLATHGNDIQVPESQVKSNYTRGNQKSSFTEIKDSASKPKKNALPSSTSTSAPVSSTNKVPQNGSGNSTSIYLEPTFNVPSSELYETFLDKQRILAWTRSAQFFNSGPKLETKEKFELFGGNVISELVSCEKDKKLVFHWKLKDWSAPFNSTIEMTFHESQEFHETKLQVKWTGIPVGEEDRVRANFEEYYVRSIKLTFGFGAVL |
| 92 | sp|P31296|CH10\_HAEDU | MSIRPLHDKVILKREEVETCSAGGIVLTGSATVKSTRGKVIAVGTGRLLENGSIQPLSVKEGDMVIFNEGYGAKVEKIDGEEILILSENDILAIVE |
| 93 | sp|B4U080|CH10\_STREM | MLKPLGDRVVLKFEAEKEQTVGGFVLAASHKEATKVGTVVAVSETGIRTITGDIVPPSVAVGDKVLVEYGSGLEVKDGDQELVICREADILAVLA |
| 94 | sp|P35480|CH60\_BRANA | MYRLISSIASKARVARNCTSQIGSRLSSTRNYAAKDIRFGVEGRALMLRGVEELADAVKVTIPPKGRNVIIEQSWGAPKVTKDGVTVAKSIEFKDRVKNVGASLVKQVANRPTQLNRCLGDGTTCATVLTRAIFTEGCKSVAAGMNAMDLRRGIKLAVDTVVTKLKSRARMISTSEEIAQVGTISANGDRELVTDCKAMESVGKEGVITIQDGKTLFNELEVVEGMKIDRGYISPYFITNQKNQKCELEDPLILIHEKKISNLNSMVKVLELALKSQRSLLIVAADLESDALAVLILNKLRAGIKVCAVKAPGFGENRKANMHDLATLTGAQVITEELGMNLEKIDLSMLGNCKKITVSKDDTVFLGWGAGDKKAIGERCEQIRSMVEASESDYDKEKLQERLAKLSGGVAVLKIGGASESEVGEKKDRVTDALNATKAAVEEGIVPGGGVALLYASKELDKLSTANFDHKIGVQIIQNALKTPVYTIASNAGVEGAVIVGKLLESDNPDLGYDAAKGEYVDMVKSGIIDPVKVIRTALVDAASVSSLLTTTEAVVTEIPTKEDASPAMGGGGGGMGGMGGMGGMGF |
| 95 | sp|Q9F746|CLPB\_YEREN | MAITRKNLFGKLDATLFKGIESATTICKLRGNPYVELIHWLNQLWHQEDNDLKHIVRYFAVDVDAFERGLAQALARLPVGATSISDFSYHIELAIERAWVYASLECLDTRIRSGHLLLAMLTNMELRRALLAIAPEMEKIPLEHLSSDFNFITQASPETNEAATDGSPMYDGTLPGEASNAINGKSTATLAQYTTDLTALAREGKIDPVLGRNHEISTMVDILLRRRQNNPLLTGEAGVGKTAVVEGLALAIVAGEMPPALSQVSLLTLDVVALSAGASMKGEFEARLKNVLDEAMASPTPVILFIDEVHTLVGAGGNAGTGDAANLLKPALARGQLRTIGATTWSEFKRHIEKDPALTRRFQVLQVDEPDEDTAISMLRGLTPALEKHHGVWIMDEALQAAVRLSHRYIPARQLPDKAISLLDTACARVAVAQFSQPAELQQLTFQSETAQTELSSLEKAQHFGKGQDERTALLEATIAQHSAAANKLEQRWQAERELVTAITATRTVLYELVSQPTPDEEKRQQYQQQLAQLEEQLLLIRSAQPLVQAEVNATVIANIVADWTGIQVGQMLKDDIRAVMELPQRLEERVIGQPHALVQLSENIMTARAGMADPRKPLGVFMLVGPSGVGKTETALAIAESMYGGEQNLITINMSEYQESHTVSSLKGSPPGYVGYGEGGVLTEAVRRKPYSVVLLDEIEKAHSDVHELFFQVFDKGQMEDGEGRFIDFKNTILLLTSNVGSELLSNLFADPDTAPDQDGILSALQPELLKVFPAAFLGRVTVIPYLPLQQSALQHIVRLHLDRIGQRLQSQHQLTLQYSDVVVDDVVSRCSVAETGARMLIRYIEQNITPEIGKFILRDHDAIPNQIVFVDKVENKFTVSVLNEKINN |
| 96 | sp|Q73K92|CLPB\_TREDE | MNIDKYTVKASEAVQEASSLAQRDDHSQVESEHLLYVLLEQEDGIVPPLVEKIGVSPESLLDDLDKMLDRKPRVTGQSAQTYISPLLAKVFANAEGYADKLKDEYVSTEHLLLALSESKDETGELLRSRGINLKNLLSALKEIRGNNRVTSENPESTFRSLEKFCRDLTQLAKNEKIDPVIGRDEEIRRVMQVLSRRTKNNPVLIGEPGVGKTAIVEGLARRIVSGDVPDSLKGKRLLSLDLGALVAGAKFRGEFEERLKAVISEVQKSEGRVILFIDELHTLVGAGASEGSMDASNLLKPALARGELRAIGATTLNEYRKYIEKDAALERRFQQVYCPEPTVEDTIAILRGLQEKYEVHHGVRIRDEALIAAAVLSNRYITNRFLPDKAIDLVDEAASRLKMEIESQPVELDQVERKILQLNIEKVSIGKENDTASKERLLKLEEELAELSSKRNAMQAQWQNEKARINESRKYKEELEQLRIEETKYSREGNLNKAAELKYGKIPELEKKIAAVTAELEKKAGQQGQLLREEVCEEDIARIVSMWTGIPVAKMLASEMQKFLQLEKVLQARVVGQDEAVRVVSDAIRRNKAGLSDMNRPLGSFLCIGPTGVGKTELARTLADFLFNDEKALTRIDMSEYMEKHSVSRLIGAPPGYVGYDEGGQLTEAVRRRPYSVILFDEIEKAHQDVFNVFLQILDDGRLTDGQGRVVDFKNTIIIMTSNIGSEYILTAKDMGSIKEEINQILRDNFRPEFLNRIDEILTFNRLEKEHIRKIVDIQLRSVAERLQARRLGLKVSDKAKDFLADIGYDPMFGARPLKRAIQAELENKLAREVLEGKFPEGSTILVDKGENSLIFKKG |
| 97 | sp|Q6F2Y7|CLPB1\_ORYSJ | MNPDNFTHKTNEALVAAHEIASEAGHAQLTPLHLVAALAADKGGILRQAISQASGGDAGAPDSFERVVSGALKKLPSQSPPPDSVPASTALIKVIRRAQSAQKKRGDSHLAVDQLLLGLLEDSLISDCLKEAGVSAARVRAELEKLRGGEGRKVESASGDTNFQALKTYGRDLVEQAGKLDPVIGRDEEIRRVVRILSRRTKNNPVLIGEPGVGKTAVVEGLAQRIVRGDVPSNLLDVRLIALDMGALVAGAKYRGEFEERLKAVLKEVEEAEGKVILFIDEIHLVLGAGRTEGSMDAANLFKPMLARGQLRCIGATTLEEYRKYVEKDAAFERRFQQVFVAEPSVPDTISILRGLKEKYEGHHGVRIQDRALVVAAQLSARYIMGRHLPDKAIDLVDEACANVRVQLDSQPEEIDNLERKRIQLEVEHHALEKEKDKASKARLVEVKKELDDLRDKLQPLTMKYRKEKERIDEIRKLKQRREELQFTLQEAERRMDLARVADLKYGALQEIDVAIAKLESETGENLMLTETVGPEQIAEVVSRWTGIPVTRLGQNDKERLVGLADRLHQRVVGQAEAVSAVAEAVLRSRAGLGRPQQPTGSFLFLGPTGVGKTELAKALAEQLFDDENLLVRIDMSEYMEQHSVARLIGAPPGYVGHEEGGQLTEQVRRRPYSVILFDEVEKAHVAVFNTLLQVLDDGRLTDGQGRTVDFRNTVIIMTSNLGAEHLLAGMVGKNSMKVARDLVMQEVRRHFRPELLNRLDEIVIFDPLSHEQLRKVARLQMKDVAVRLAERGVALAVTDAALDVILSLSYDPVYGARPIRRWIEKRVVTQLSKMLIQEEIDENCTVYIDAAPHKDELAYRVDNRGGLVNAETGQKSDILIQVPNGAATGSDAAQAVKKMRIMEDEDGMDEE |
| 98 | sp|Q9RVI3|CLPB\_DEIRA | MNPERFTEASAVAINAAQQLAQENHNQNLTHFHVLRTLLDNDTASRALTLAGGDLNTARAALDAEIAKLPKVQGSDGQLYLDPALNRAFQKADTLAAQLGDSFVAADTLLLALRGEYRGRGLPDEVSLNRAVTEQRKGKTVTNKTSEQQFDALNKYGTDLTQRARDGKFDPVIGRDEEIRRVMQILLRRSKNNPVLIGEPGVGKTAIAEGLAMRIVKGDVPEGLRDKKIVSLEMGSLLAGAKFRGEFEERLKGVIDEVVKSAGEIILFVDEIHTIVGAGKTEGSPDAGNMLKPALARGELHLIGATTLDEYREIEKDAALERRFQPVFVDEPSVEDTISILRGIKERYQVHHNVEITDPALVAAATLSNRYITDRQLPDKAIDLIDESAARLRMALESSPERIDQLSRRKLQLEIEREALKREKDVDSQNRLLDIENQLKTLTDELNEVRSRWEAERGEVAALREKREKLDAVRTQIEKARRDYDLEEAARLEYGELPALEKDVQDLEKKLKSAEFAHMEVTEEDIAAVVSRWTGIPVSKLMEGEREKLLHLEEQLHGRVIGQDRAIVSVSDAIRRARAGLNDPNRPLGSFMFLGPSGVGKTELAKALAEFLFDSSDAMVRIDMSEYMEKHTVARLIGAPPGYVGFEEGGQLTEAVRRRPYAVILFDEIEKAHPDVFNVLLQVLDDGRLTDGQGRTVDFRNTLIIMTSNIGSPLILEMQQRGEDAETIKSAVMDELRGEFRPEFLNRVDDIIVFDALTAKDLQSIVDIQLGGLRRRLAERRITLHLTEDAKDKLAELGYDPAYGARPLRRTISQYIETPLAREILGGQIQDGSVLNVDYGDGGFTFNSGSLN |
| 99 | sp|P80926|CS33\_ARAHY | AQITLTNKASYTVTPPAQANAADA |
| 100 | sp|P0A9Y4|CSPA\_SHIFL | MSGKMTGIVKWFNADKGFGFITPDDGSKDVFVHFSAIQNDGYKSLDEGQKVSFTIESGAKGPAAGNVTSL |
| 101 | sp|Q7A0D2|CSHA\_STAAW | MQNFKELGISDNTVQSLESMGFKEPTPIQKDSIPYALQGIDILGQAQTGTGKTGAFGIPLIEKVVGKQGVQSLILAPTRELAMQVAEQLREFSRGQGVQVVTVFGGMPIERQIKALKKGPQIVVGTPGRVIDHLNRRTLKTDGIHTLILDEADEMMNMGFIDDMRFIMDKIPAVQRQTMLFSATMPKAIQALVQQFMKSPKIIKTMNNEMSDPQIEEFYTIVKELEKFDTFTNFLDVHQPELAIVFGRTKRRVDELTSALISKGYKAEGLHGDITQAKRLEVLKKFKNDQINILVATDVAARGLDISGVSHVYNFDIPQDTESYTHRIGRTGRAGKEGIAVTFVNPIEMDYIRQIEDANGRKMSALRPPHRKEVLQAREDDIKEKVENWMSKESESRLKRISTELLNEYNDVDLVAALLQELVEANDEVEVQLTFEKPLSRKGRNGKPSGSRNRNSKRGNPKFDSKSKRSKGYSSKKKSTKKFDRKEKSSGGSRPMKGRTFADHQK |
| 102 | sp|Q9FE01|APX2\_ORYSJ | MGSKSYPTVSDEYLAAVGKAKRKLRGLIAEKNCAPLMLRLAWHSAGTFDVSSRTGGPFGTMKNPGEQSHAANAGLDIAVRLLDPIKDQLPILSYADFYQLAGVVAVEVTGGPEVPFHPGRQDKPEPPPEGRLPDATQGSDHLRQVFSAQMGLSDKDIVALSGGHTLGRCHKERSGFEGAWTSNPLIFDNSYFTELVSGEKEGLLQLPSDKALMADPAFRPLVEKYAADEDAFFADYAEAHLKLSELGFAEE |
| 103 | sp|P76216|ASTB\_ECOLI | MNAWEVNFDGLVGLTHHYAGLSFGNEASTRHRFQVSNPRLAAKQGLLKMKALADAGFPQAVIPPHERPFIPVLRQLGFSGSDEQVLEKVARQAPHWLSSVSSASPMWVANAATIAPSADTLDGKVHLTVANLNNKFHRSLEAPVTESLLKAIFNDEEKFSVHSALPQVALLGDEGAANHNRLGGHYGEPGMQLFVYGREEGNDTRPSRYPARQTREASEAVARLNQVNPQQVIFAQQNPDVIDQGVFHNDVIAVSNRQVLFCHQQAFARQSQLLANLRARVNGFMAIEVPATQVSVSDTVSTYLFNSQLLSRDDGSMMLVLPQECREHAGVWGYLNELLAADNPISELKVFDLRESMANGGGPACLRLRVVLTEEERRAVNPAVMMNDTLFNALNDWVDRYYRDRLTAADLADPQLLREGREALDVLSQLLNLGSVYPFQREGGGNG |
| 104 | sp|P0C0N2|CH10\_STAEP | MLKPLGNRVIIEKKEQEQAAKSGIVLTDSAKEKSNEGVIIAVGQGRLLDNGTQVAPQVSEGDTIVFQQYAGTEVKRGAQTYLILNEEDILAIIE |
| 105 | sp|P56281|CH60\_LEITA | MLRSAVRLAGKDVRFGEDARRSMQKGVTRAVAAVATTLGPKGRNVII |
| 106 | sp|P54584|CSP\_ARTGO | MAQGTVKWFNAEKGFGFITPDDSDGDVFVHYSEIQTGGFKTLDENARVQFEIGQGAKGPQATGVTLV |
| 107 | sp|Q8S932|ACCO\_DIOKA | MESFPVINMEKMNGEERAATMGLINDACENWGFFELVNHGIPPELMDTVERVTKAHYKKCMEQRFKELVASKALEGIQAEVTDMDWESTYFLRHLPQSNISEVPDLDEEYRRVMKDFAERLEKLAEYLLDLLCENLGLEKGYLKKAFYGTKGPNFGTKVANYPPCPKADLIKGLRAHTDAGGIILLFQDDKVSGLQLLKDDQWIDVPPMKHSIVINLGDQLEVITNGKYKSVLHRVVAQTDGTRMSIASFYNPGNDAVIYPAPALVEKEVEEKEVYPKFVFDDYMKLYAALKFQAKEPRFEAMKAVEANVNLGPIATV |
| 108 | sp|P81085|ACT\_PINPS | DLYGNIVLSGGSTMF |
| 109 | sp|P83617|BIP\_ASPKA | MARISHQGAAKPFTAWTTIFYLLLVFIAPLAFFGTAHAQDETSPQESYGTVIGIDLGTTYSCVGVMQNGKVEILVNDQGNRITPSYVAFTDEERLVGDAAKNQYAANPRRTIFDIKRLIGRKFDDKDVQKDAKHFPYKVVNKDGKPHVKVDVNQTPKTLTPEEVSAMVLGKMKEIAEGYLGKKVTHAVVTVPAYFNDAQRQATKDAGTIAGLNVLRVVNEPTAAAIAYGLDKTGDERQVIVYDLGGGTFDVSLLSIDNGVFEVLATAGDTHLGGEDFDQRVMDHFVKLYNKKNNVDVTKDLKAMGKLKREVEKAKRTLSSQMSTRIEIEAFHNGEDFSETLTRAKFEELNMDLFKKTLKPVEQVLKDAKVKKSEVDDIVLVGGSTRIPKVQALLEEFFGGKKASKGINPDEAVAFGAAVQGGVLSGEEGTGDVVLMDVNPLTLGIETTGGVMTKLIPRNTVIPTRKSQIFSTAADNQPTVLIQVYEGERSLTKDNNLLGKFELTGIPPAPRGVPQIEVSFDLDANGILKVHASDKGTGKAESITITNDKGRLSQEEIDRMVAEAEEFAEEDKAIKAKIEARNTLENYAFSLKNQVNDENGLGGQIDEDDKQTILDAVKEVTEWLEDNAATATTEDFEEQKEQLSNVAYPITSKLYGSAPADEDDEPSGHDEL |
| 110 | sp|Q831Y7|CLPB\_ENTFA | MNIEKMTTTLQEAIAEAQKVAVTRQHQEIDIAHLWKIFLQPNHFGRNFYTDAGLDVDAFEREVDNALDEYPSVAGGNVQYGQNLSQNLFHLLQEADSLREEFQDEFLSTEIVLLALMKLKNYRLTKYLMQQGITEKELRKNIEEMRGGDRVTSQNQEEQYKALEKYGVDLVQQVKAGKQDPIIGRDEEIRDVIRILSRKTKNNPVLIGEPGVGKTAIVEGLAQRIVRKDVPENLKDKTIFSLDMGALIAGAKFRGEFEERLKAVLKEVKKSDGKIILFIDEIHNIVGAGKTEGSMDAGNLLKPMLARGELHLIGATTLDEYRQYMEKDKALERRFQKVLVKEPTVEDTISILRGLKERFEIHHGVNIHDNALVAAATLSDRYITDRFLPDKAIDLVDEASATIRVEMNSMPTELDQVTRRLMQLEIEEAALKKESDDASKKRLANLQEELADLREEANSMKMQWETEKEEVNAVSNKRAEIDKAKHELEDAENNYDLERAAVLRHGTIPQLEHELKELEEKNAKDNVKMVQESVTENEIAQVVGRLTGIPVTKLVEGEREKLMKLNETLHKRVIGQDEAVDAVSDAVIRSRAGLQDPNRPLGSFLFLGPTGVGKTELAKALAEDLFDSEDHMVRIDMSEYMEKHAVSRLVGAPPGYVGYEEGGQLTEAVRRNPYTIVLLDEIEKAHPDVFNILLQVLDDGRLTDSKGRVVDFKNTVLIMTSNIGSQLLLEGVTPEGTIPEEVENQVMNILKGHFKPEFLNRIDDTILFTPLSLDNVKGIIGKMTAQLAHRLEQQEIVLEITDEAKTWIAENGYEPAYGARPLKRFITREVETPLAKEIVSGRVMPKTKVTISLLDNQLVFENEPIEEV |
| 111 | sp|Q72AW6|CLPB\_DESVH | MDIGKFTEKSQQALAEAQNIAVRFGHQEVDAEHLADALVRQEQGLVPRLLDRMGQKPEAFAEALERELGKRPAVSGPGAAPGQIFVSKRLNAVLVKAQDFARQLKDEYVSVEHIFCVLLEEPASTIMGRIAREFSLSREKVLGVLEDVRGSQRVTSANPEDTYEALQKYGRDLVEEARKGKLDPVIGRDAEIRRVIRILSRRTKNNPVLIGEAGVGKTAIVEGLAHRILKGDVPEGLKERGLFALDMGALIAGAKYRGEFEERLKAVLKEVEKSEGRIIMFIDELHTIVGAGKTDGAMDASNLLKPMLARGELHCIGATTLDEYRKYIEKDPALERRFQPVLVDEPTIEDAISILRGLKERFEVHHGVRISDSAIVEAVTLSHRYITDRQLPDKAIDLIDEAAALIRTEIDSLPADLDEANRKIMQLEIEREALRRETDVASRERLERLENELADLRAEQTALLSQWEREKGSIDHVRSIKEDIERTRHAIEEAERAYDLNRAAELKYSRLLELERQLESAEKGGHDETRLLKEEVRPDDIAEIVARWTGIPVTRLLESEREKLLRLADVLHERVVGQEEAVDAVSEAVLRARAGLSDPSRPIGSFIFLGPTGVGKTELCKTLAEALFDTEENIVRLDMSEYMEKHAVARLIGAPPGYVGYDEGGQLTEAVRRKPYSVVLFDEVEKAHPDVFNTLLQILDDGRLTDSHGRTVDFRNTIIIMTSNIGSPYMLDGISEGGEFLSGVREKVMEELRRHFRPEFLNRVDETVLFKPLLPAQIARIVELLLGRLRGRLAERKIDIRLGDVARDFIAKAAYDPVYGARPLRRYLQHNIETPLARKLIAGELRDGTTVEVDVVDDALSFRIE |
| 112 | sp|Q9CKC0|CLPB\_PASMU | MNIEKFTTKFQQALQEAQSLAIGKDNQFIEPVHLLTALLNQQGGSTAPILTASGANLPLLRNELNAELSKLPQVSGSGGDVQVSRSLVNLLNLCDKLAQQRQDKFISSELFLLAALEDKTLGDVLKKCGVKKENLQQAIEKVRGGQNVNDPNAEESRQALEKYTIDLTARAESGKLDPVIGRDEEIRRAIQVLQRRTKNNPVLIGEPGVGKTAIVEGLAQRIVNGEVPEGLKNKRVLSLDMGALIAGAKYRGEFEERLKAVLNELSKEEGRVILFIDEIHTMVGAGKTDGAMDAGNLLKPSLARGELHCVGATTLDEYRQYIEKDAALERRFQKVFVGEPTVEDTIAILRGLKERYEIHHHVQITDPAIVAAATLSHRYVSDRQLPDKAIDLIDEAASSIRMEIDSKPQPLDRLERRIIQLKLEQQALQKEDDDASRKRLAMLEKELGEKEREYAELEDVWKAEKAALSGTQHIKAELDSAKTQMEQARRASDFAKMSELQYGVIPALEKQLAQAESAEGKEMTLLRYRVTDEEIAEVLSRATGIPVAKMMEGEKEKLLRMEEELHKRVIGQHEAIEAVSNAIRRSRAGLSDPNRPIGSFLFLGPTGVGKTELCKTLANFLFDDENAMVRIDMSEFMEKHSVSRLVGAPPGYVGYEEGGYLTEAVRRRPYSVILLDEVEKAHHDVFNILLQVLDDGRLTDGQGRTVDFRNTVVIMTSNLGSHLIQENSTLDYPSMKELVMSVVGQHFRPEFINRIDETVVFHPLGKENIREIATIQLARLIKRMESHGYQLHFTDACLDFIGEVGYDPVYGARPLKRAIQQEIENPLAQQILSGKLLPNQLVTIDYVDGKVIANQ |
| 113 | sp|Q89UL2|CLPB\_BRADU | MNIEKYTERSRGFIQSAQSLAVREGHQQFSTLHVLKVLLDDNEGLAAGLIDRAGGNSRAILKATEDALNKVPKVSGGGAGQIYLAPELARTFDAAEKAGEKAGDSFVTVERLLLGLTLEKTSEAGTILSKGGVTPQNLNAAIEALRKGRTADSATAENAYDALKKYARDLTQAARDGKLDPVIGRDEEIRRTIQVLSRRTKNNPVLIGEPGVGKTAIAEGLALRIVNGDVPESLKDKKLLSLDLGALIAGAKYRGEFEERLKAVLQEVTGSEGTFILFIDEMHTLIGAGKGDGAMDASNLLKPALARGELHCIGATTLDEYQKHVEKDAALARRFQPIFVSEPSVEDTISILRGLKDKYEQHHGVRITDSALVASATLSNRYITDRFLPDKAIDLMDEAAARLKMQVDSKPEELDSMDREIIRLKIEQEALKKESDAGSKSRLQTLEKELVELEEKSASLTARWSAEKNKLSDAQKLKAELDGLRVELANAQRRGEFQKAGELAYGRIPELERQLADIEAKENSGEMMEEAVTANHIAQVVSRWTGVPVDKMLEGEKDKLLKMEDSLGKRVVGQAEAVHAVATAVRRSRAGLQDPNRPMGSFMFLGPTGVGKTELTKALAEYLFNDETAMVRLDMSEYMEKHSVSRLIGAPPGYVGYDEGGALTEAVRRRPYQVVLFDEIEKAHPDVFNVLLQVLDDGRLTDGQGRTVDFRNTLIIMTSNLGSEFLVNQPEGEDTSAVREQVMGMVRGHFRPEFLNRVDEIILFHRLQRSEMGRIVEIQFARLQKLLTDRKIVLTLDGAARDWLAAKGWDPAYGARPLKRVIQRYLQDPLAEMILAGDVKDGDNVAISSEGNVLTFNGKAPQTAEIAQFEAPASKRKLN |
| 114 | sp|Q9Z6C9|CSHA\_LACRE | MKFSELGLSDSLLKAIKRSGYEEATPIQEQTIPMVLEGKDVIGQAQTGTGKTAAFGLPIIENVDTENPNIQAIIISPTRELAIQTQEELYRLGKDKHVRVQVVYGGADIRRQIKSLKQHPQILVGTPGRLRDHINRHTVKLDHIKTLVLDEADEMLNMGFLEDIESIIKETPDDRQTLLFSATMPPEIKRIGVQFMSDPETVRIKAKELTTDLVDQYYVRARDYEKFDIMTRLIDVQDPDLTIVFGRTKRRVDELSKGLIARGYNAAGIHGDLTQDKRSKIMWKFKNNELDILVATDVAARGLDISGVTHVYNYDIPSDPDSYVHRIGRTGRAGHHGVSLTFVTPNEMDYLHEIEKLTRVRMLPLKPPTAEEAFKGQVASAFNDIDELIAQDSTDRYEEAAEKLLETHNATDLVAALLNNMTKEAASEVPVKITPERPLPRRNKRNNRNGNRNNSHGGNHYRRKNFRRHQHGSHRNDNHGKSHSSRHSFNIRHRKEN |
| 115 | sp|Q6G7M9|CSHA\_STAAS | MQNFKELGISDNTVQSLESMGFKEPTPIQKDSIPYALQGIDILGQAQTGTGKTGAFGIPLIEKVVGKQGVQSLILAPTRELAMQVAEQLREFSRGQGVQVVTVFGGMPIERQIKALKKGPQIVVGTPGRVIDHLNRRTLKTDGIHTLILDEADEMMNMGFIDDMRFIMDKIPAVQRQTMLFSATMPKAIQALVQQFMKSPKIIKTMNNEMSDPQIEEFYTIVKELEKFDTFTNFLDVHQPELAIVFGRTKRRVDELTSALISKGYKAEGLHGDITQAKRLEVLKKFKNDQINILVATDVAARGLDISGVSHVYNFDIPQDTESYTHRIGRTGRAGKEGIAVTFVNPIEMDYIRQIEDANGRKMSALRPPHRKEVLQAREDDIKEKVENWMSKESESRLKRISTELLNEYNDVDLVAALLQELVEANDEVEVQLTFEKPLSRKGRNGKPSGSRNRNSKRGNPKFDSKSKRSKGYSSKKKSTKKFDRKEKSSGGSRPMKGRTFADHQK |
| 116 | sp|A2WX30|COI1A\_ORYSI | MGGEVPEPRRLNRALSFDDWVPDEALHLVMGHVEDPRDREAASRVCRRWHRIDALTRKHVTVAFCYAARPARLRERFPRLESLSLKGKPRAAMYGLIPDDWGAYAAPWIDELAAPLECLKALHLRRMTVTDADIAALVRARGHMLQELKLDKCIGFSTDALRLVARSCRSLRTLFLEECHITDKGGEWLHELAVNNSVLVTLNFYMTELKVAPADLELLAKNCKSLISLKMSECDLSDLISFFQTANALQDFAGGAFYEVGELTKYEKVKFPPRLCFLGLTYMGTNEMPVIFPFSMKLKKLDLQYTFLTTEDHCQIIAKCPNLLILEVRNVIGDRGLEVVGDTCKKLRRLRIERGDDDPGLQEEQGGVSQLGLTAVAVGCRELEYIAAYVSDITNGALESIGTFCKNLYDFRLVLLDRERQVTDLPLDNGVCALLRNCTKLRRFALYLRPGGLSDDGLSYIGQYSGNIQYMLLGNVGESDHGLIRFAVGCTNLQKLELRSCCFSERALSLAVLQMPSLRYIWVQGYRASQTGLDLLLMARPFWNIEFTPPSPESFNHMTEDGEPCVDSHAQVLAYYSLAGRRSDCPQWVIPLHPA |
| 117 | sp|P40467|ASG1\_YEAST | MPEQAQQGEQSVKRRRVTRACDECRKKKVKCDGQQPCIHCTVYSYECTYKKPTKRTQNSGNSGVLTLGNVTTGPSSSTVVAAAASNPNKLLSNIKTERAILPGASTIPASNNPSKPRKYKTKSTRLQSKIDRYKQIFDEVFPQLPDIDNLDIPVFLQIFHNFKRDSQSFLDDTVKEYTLIVNDSSSPIQPVLSSNSKNSTPDEFLPNMKSDSNSASSNREQDSVDTYSNIPVGREIKIILPPKAIALQFVKSTWEHCCVLLRFYHRPSFIRQLDELYETDPNNYTSKQMQFLPLCYAAIAVGALFSKSIVSNDSSREKFLQDEGYKYFIAARKLIDITNARDLNSIQAILMLIIFLQCSARLSTCYTYIGVAMRSALRAGFHRKLSPNSGFSPIEIEMRKRLFYTIYKLDVYINAMLGLPRSISPDDFDQTLPLDLSDENITEVAYLPENQHSVLSSTGISNEHTKLFLILNEIISELYPIKKTSNIISHETVTSLELKLRNWLDSLPKELIPNAENIDPEYERANRLLHLSFLHVQIILYRPFIHYLSRNMNAENVDPLCYRRARNSIAVARTVIKLAKEMVSNNLLTGSYWYACYTIFYSVAGLLFYIHEAQLPDKDSAREYYDILKDAETGRSVLIQLKDSSMAASRTYNLLNQIFEKLNSKTIQLTALHSSPSNESAFLVTNNSSALKPHLGDSLQPPVFFSSQDTKNSFSLAKSEESTNDYAMANYLNNTPISENPLNEAQQQDQVSQGTTNMSNERDPNNFLSIDIRLDNNGQSNILDATDDVFIRNDGDIPTNSAFDFSSSKSNASNNSNPDTINNNYNNVSGKNNNNNNITNNSNNNHNNNNNDNNNNNNNNNNNNNNNNNSGNSSNNNNNNNNNKNNNDFGIKIDNNSPSYEGFPQLQIPLSQDNLNIEDKEEMSPNIEIKNEQNMTDSNDILGVFDQLDAQLFGKYLPLNYPSE |
| 118 | sp|Q87PP5|BCCT1\_VIBPA | MIKFASFLKFRVQINGGRYWSSSPLRSVSNYVKFVFMDNAFKKYSIDTTDYQVGQDNVQKWGFDIHNPVFGISAGLVVFCLISLLLVEPVTARDALNGIKNGIIEQFDAFFMWSTNFFLLFAVGLLFSPLGKIRLGGKEATPDHSTVSWLSMLFAAGMGIGLLFWSVAEPTAYFTDWWGTPLNAEAYSADAKSLAMGATMFHWGVHGWSIYALVALALAFFAFNKGLPLSLRAAFYPIFGDRAWGWLGHVIDILAVLSTLFGLATSLGLGAQQATSGINHVFGLNGGIGTQMVVIAFVTFIAVLSVVRGIDGGVKLLSNVNMIVAFALLIFITFITFDTAMGSLVDTTMAYIQNIIPLSNPHGREDETWMHGWTVFYWAWWVSWSPFVGMFIARVSKGRTVREFLFAVIVIPTLVTLVWMSVFGGIALDQVVNKVGELGANGLTDISLTLFHVYDVLPYSSVISILSIVLILVFFITSSDSGSLVIDSITAGGKIDAPVPQRIFWACIEGSIAAVMLWVGGKEALQALQSGVVATGLPFTFVLLLMCVSLVKGLRTELSAYR |
| 119 | sp|Q2QQ32|BH133\_ORYSJ | MECSSFEAICNESEMIAHLQSLFWSSSDADPCFGSSSFSLISSEGYDTMTTEFVNSSTNVCFDYQDDSFVSAEETTIGNKRKVQMDTENELMTNRSKEVRTKMSVSKACKHSVSAESSQSYYAKNRRQRINERLRILQELIPNGTKVDISTMLEEAIQYVKFLHLQIKLLSSDEMWMYAPLAFDSGNNRLYQNSLSQE |
| 120 | sp|P50077|CCH1\_YEAST | MQGRKRTLTEPFEPNTNPFGDNAAVMTENVEDNSETDGNRLESKPQALVPPALNIVPPESSIHSTEEKKGDEYNGNDKDSSLISNIFRTRVGRSSHENLSRPKLSLKTASFGAAESSRRNVSPSTKSAKSSSQYIDLNDERLRRRSFSSYSRSSSRRVSNSPSSTDRPPRSAKVLSLIAADDMDDFEDLQKGFKSAIDEEGLTWLPQLKSEKSRPVSDVGEDRGEGEQESIPDVHTPNVGASATPGSIHLTPEPAQNGSVSEGLEGSINNSRKKPSPKFFHHLSPQKEDKDQTEVIEYAEDILDFETLQRKLESRPFVLYGHSLGVFSPTNPLRIKIARFLLHRRYSLLYNTLLTFYAILLAIRTYNPHNVVFLYRFSNWTDYFIFILSACFTGNDIAKIIAFGFWDDSEMFKAYGREYKSILQRSGIMKLYIYLREKYGRKLIDFIIPFRIISPGEETKYQRSSLSTSLTKPYGAKENQRPFGTPRAFARSSWNRIDLVSSVSFWLGMFLSIKSYDTKTGIRIFKPLAILRILRLVNVDTGMPSILRGLKYGIPQLVNVSSMLVYFWIFFGILGVQIFQGSFRRQCVWFNPEDPTDTYQYDMQFCGGYLDPVTKRKQNYIYEDGSEGSVSKGFLCPQYSKCVSNANPYNGRISFDNIVNSMELVFVIMSANTFTDLMYYTMDSDEMAACLFFIVCIFVLTIWLLNLLIAVLVSSFEIANEEYKKKKFIYGSRKTGYVARIVTGYWKYFKLKANQTKFPNWSQKGLAIYSHVEFIFVILIICDIGMRASVKVSTSANCNNILLKTDRGISIVLFIESLARLVLYLPNMWKFLTKPSYVYDFIISIITLVISCLAVEGVLGHMYAWLSIFHISRFYRVIISFNLTKKLWKQILSNGVMIWNLSSFYFFFTFLVAIIMAVYFEGVIPPEEMADQPFGMYSLPNSFLSLFIIGSTENWTDILYALQKHSPNISSTFFCSVFFIIWFLLSNSVILNIFIALISESMEVKEEEKRPQQIKHYLKFVYPQKIQEYTHASLVARIRKKFFGGHRNEDTRDFKQFLMRGTAIMNIAQNMGELADEFKEPPSENLFKKGLSKLTIGVPSLKRLRMFANNPFYKNSDVVFTETNDINGRTYILELNEYEDEKLDYLKKYPLFNYSYYFFSPQHRFRRFCQRLVPPSTGKRTDGSRFFEDSTDLYNKRSYFHHIERDVFVFIFALATILLIVCSCYVTPLYRMHHKMGTWNWSSALDCAFIGAFSIEFIVKTVADGFIYSPNAYLRNPWNFIDFCVLISMWINLIAYLKNNGNLSRIFKGLTALRALRCLTISNTARQTFNLVMFDGLNKIFEAGLISLSLLFPFTVWGLSIFKGRLGTCNDGSLGRADCYNEYSNSVFQWDIMSPRVYQQPYLHLDSFASAFSSLYQIISLEGWVDLLENMMNSSGIGTPATVMGSAGNALFLVLFNFLSMVFILNLFVSFIVNNQARTTGSAYFTIEEKAWLESQKLLSQAKPKAIPNLIELSRVRQFFYQLAVEKKNFYYASFLQVVLYLHIIMLLSRSYNPGNLIGYQGVYFMFSTSVFLIQEALHMCGEGPRLYFRQKWNSIRLSIIIIAFIMNAVAFHVPASHYWFHNIKGFFLLVIFLFIIPQNDTLTELLETAMASLPPILSLTYTWGVLFLVYAIALNQIFGLTRLGSNTTDNINFRTVIKSMIVLFRCSFGEGWNYIMADLTVSEPYCSSDDNSTYTDCGSETYAYLLLMSWNIISMYIFVNMFVSLIIGNFSYVYRSGGSRSGINRSEIKKYIEAWSKFDTDGTGELELSYLPRIMHSFDGPLSFKIWEGRLTIKSLVENYMEVNPDDPYDVKIDLIGLNKELNTIDKAKIIQRKLQYRRFVQSIHYTNAYNGCIRFSDLLLQIPLYTAYSARECLGIDQYVHHLYILGKVDKYLENQRNFDVLEMVVTRWKFHCRMKRTIEPEWDVKDPTVSSHISNINVNLEPAPGILEREPIATPRMDYGVNNFMWSPRMNQDSTMEPPEEPIDNNDDSANDLIDR |
| 121 | sp|Q75C78|BIP\_ASHGO | MAFGKVSNWAVPLTALMYAMALVCLPMFAGGSRGLVYAADTDAENYGTVIGIDLGTTYSCVALMRNGKTEILANEQGNRITPSYVAFTDDERLIGDAAKNQVANNPKNTIFDIKRLIGLKYNDKTVQREIKHLPFEVVDKNGMPAVAVTVKGERKLFTPEEISGMVLGKMKQIAEEYLGKKVTHAVVTVPAYFNDAQRQATKDAGAIAGLNILRIVNEPTAAAIAYGLDKTEDEHRIVVYDLGGGTFDVSLLSIENGVFEVQATAGDTHLGGEDFDYKLVRHFLKVFKKKHGVDVSSNAKAMAKLKREAEKAKRALSSQMSTRVEIDSFVDGIDFSETLTRAKFEEMNLDLFKRTLKPVEKVLQDAGLKKEDIDDIVLVGGSTRIPKVQELLENFFNKKASKGINPDEAVAYGAAVQAGVLSGEEGVEDIVLLDVNPLTLGIEVTGGIMTPLIKRNTPIPTKKSQIFSTAVDNQKTVMIQVYEGERAMAKDNNHLGKFELSGIPPAPRGIPQIEVTFALDANGILKVSATDKGTGKSESVTITNEKGRLSKDDIERMVAEAENYQKEDEEIRAKVEARHKLENYAHSLKNQVNGDLGDKLEEDDKETLLEAANDVLEWLEDNSDSATKEEFNEKFESLSQTAYPITSKLYGAGASDATDDEDDESDDYFDHDEL |
| 122 | sp|Q05866|BIP\_PLAFO | MNQIRPYILLLIVSLLKFISAVDSNIEGPVIGIDLGTTYSCVGVFKNGRVEILNNELGNRITPSYVSFVDGERKVGEAAKLEATVHPTQTVFDVKRLIGRKFDDQEVVKDRSLLPYEIVNNQGKPNIKVQIKDKDTTFAPEQISAMVLEKMKEIAQSFLGKPVKNAVVTVPAYFNDAQRQATKDAGTIAGLNIVRIIINQPTAAALAYALDKKEETSILVYDLGGGTFDVSILVIDNGVFEVYATAGNTHLGGEDFDQRVMDYFIKMFKKKNNIDLRTDKRAIQKLRKEVEIAKRNLSVVHSTQIEIEDIVEGHNFSETLTRAKFEELNDDLFRETLEPVKKVLDDAKYEKSKIDEIVLVGGSTRIPKIQQIIKEFEFFNGKEPNRGINPDEAVAYGAAIQAGIILGEELQDVVLLDVTPLTLGIETVGGIMTQLIKRNTVIPTKKSQTFSTYQDNQPAVLIQVFEGERALTKDNHLLGKFELSGIPPAQRGVPKIEVTFTVDKNGILHVEAEDKGTGKSRGITITNDKGRLSKEQIEKMINDAEKFADEDKNLREKVEAKNKLDNYIQSMKATVEDKDKLADKIEKEDKNTILSAVKDAEDWLNNNSNADSEALKQKLKDLEAVCQPIIVKLYGQPGGPSPQPSGDEDVDSDEL |
| 123 | sp|Q6FDF5|BETT2\_ACIAD | MATDNPRAVDDQETHPKDRLNRVVFYVSALIILIFSLTTILFNDFANRALNQVLDWVSSTFSWYYLLAATLYMVFVIFIACSRYGNIKLGPKHSKPEFSLLSWSAMLFSAGIGIDLMFFSVAEPLSHYMHPPVGEGQTYEAARQGMVWTLFHYGLTGWCMYALIGMALGYFSYRYNLPLTIRSALYPIFGKKINGPIGHSVDTAAVIGTIFGIATTCGIGVVQLNYGLHVLFDLPENLWVQTALILVAVIITIISVTSGVNKGLRILSEVNIYVSVGLMLFILFLGNTEFLLNALVQNVGDYLSRFPSLALESFAFDQPKEWMNSWTLFFWAWWVAWSPFVGLFLARISRGRTIREFVSGTLIIPLLFTLTWLSIFGNSALHNVIFDGNIALAETVLSNPAHGFYDLLAQYPWFPFIAGVATITGLLFYVTSADSGALVLGNFTTQFTNIDHDAPRWLSVFWAVAIGLLTLAMLMTNGITALQNATIIMGLPFSFVMFLVMAGLYKSLRLEDYRQASASLNAAPVVGNVDILNWKKRLTRVMHHPGTFETKRMLNEICRPAVHAVAEELQKRAVQVDVLEVPLEEDEELYHLDITIHLEEEQNFIYQIWPVRYIAPNFSERGKRGKQFYYRLETYLYEGSQGNDLVGYTKEQVINDILDRYERHMTFLHINRISPGNRPLFPDPKA |
| 124 | sp|O04121|CHMO\_SPIOL | MMAASASATTMLLKYPTTVCGIPNPSSNNNNDPSNNIVSIPQNTTNPTLKSRTPNKITTNAVAAPSFPSLTTTTPSSIQSLVHEFDPQIPPEDAHTPPSSWYTEPAFYSHELERIFYKGWQVAGISDQIKEPNQYFTGSLGNVEYLVSRDGEGKVHAFHNVCTHRASILACGSGKKSCFVCPYHGWVYGMDGSLAKASKAKPEQNLDPKELGLVPLKVAVWGPFVLISLDRSLEEGGDVGTEWLGTSAEDVKAHAFDPSLQFIHRSEFPMESNWKIFSDNYLDSSYHVPYAHKYYATELNFDTYDTQMIENVTIQRVEGSSNKPDGFDRVGIQAFYAFAYPNFAVERYGPWMTTMHIHPLGPRKCKLVVDYYIENSMLDDKDYIEKGIAINDNVQREDVVLCESVQRGLETPAYRSGRYVMPIEKGIHHFHCWLQQTLK |
| 125 | sp|Q1RGR1|CLPB\_RICBR | MNIDKFTAHAKSAITNCQHIAAKNDHQQILPLHLLASLFNEDTGIIRTLINNSGGNLNILADQVQVELNKIPKVQVDGGGTIYSSAELLKVLQRADDLAKNNGDSFVTIERILEALSFDNTIAGKILTNNGISSKKLAASILQLRKGKKADTESAENSYDALKKYGRDVTELAESGKLDPIIGRDEEIRRTVQVLSRRMKNNPVLIGEPGVGKTAIIEGLAQRIFSKDVPETLINCRIIELDMGALIAGAKYRGEFEERLKAVLGEIKESSGEIILFIDELHLLVGTGKTDGAMDASNLLKPMLARGELHCIGATTLDEYRKYIEKDAAFARRFQPVYVSEPTVEDTISILRGIKEKYELHHAVRISDSAIVAAATLSNRYITDRFLPDKAIDLIDEACSRMKIELSSKPEELDELDRRIIQIKIELAALKKESDEHSKKKIEHLTAELEKLESNSYDMSSKWQAEKSKIQGQQKLKEELDRARIDLERAERDANLAKASELKYGIIPEIMKKIQETENADSKGLLKEIVSESDIASIISRITGIPIDTMLSSERERLLVMEQKLRESVIGQDEAIKSVSDAVRRSRAGIQDINRPLGSFLFLGPTGVGKTELTKALAGFLFDDRNAILRIDMSEYMEKHAISRLIGAPPGYVGYDQGGVLTEAVRRRPYQVILFDEVEKAHPDIFNIMLQILDEGRLTDSQGITVDFKNTIIVLTSNLGAEILVNQKEGEDTYKVKDQVMEYVKMVFKPEFLNRLDEIILFHRLNQSNIHDIVKIQLEGLKKILSAQNIILEFDEPALNYLAEKGYDPSFGARPLKRLIQREIQNNLAKMILAGEVSSGKIVKITAKKEELKIQIID |
| 126 | sp|Q56178|CSPA\_SALVI | DKGFGFITPDDGSKDVFVHFSAIQNDGYKSLDEGQKVSFTIESGAK |
| 127 | sp|P0A356|CSPA\_LISIN | MEQGTVKWFNAEKGFGFIERENGDDVFVHFSAIQGDGFKSLDEGQAVTFDVEEGQRGPQAANVQKA |
| 128 | sp|Q7U3T3|CLPB2\_SYNPX | MTGTPASRGSLTHEPDRFSDPAWELLLAGQDMARRWRHDQLDVEHLIQVLFSDSSFRRWVEPLPLRSDDLLDRLEDVLADQPPARGDQLFIGEDLEQLLETADQVRGRWGDRSIDVPQLIVAVGADPRIGAELFAAQGLAVDRLESLLRQPSVSPAPAPPPVPTAASAPAPTPRSAPAPRVMAPEPEPMVELEREPSALEAYGRDLTEEAEAGSLDPVIGRDSEIRNLIKVLSRRSKNNPVLIGEPGVGKTAIAELLAQRIVAGEVPDSLQGLRLIALDLGALIAGAKFRGQFEERLRSVLEEVSRSDSGVVLFIDELHTVVGSDRSSTDAGSLLKPALARGDLRCIGATTPEEYRRTVEKDPALNRRFQQVLIREPDLELSLEILRGLRERYELHHGVTITDEAIQTANRLADRYISDRCLPDKAIDLIDEAAAQLKIEVTSKPQVVEEAEADLRRVELALLAAEEAPEEERIQLQRQRLEVSSRLDDLRRRWQEERTQLEELGQLLQQDEDLRHAIAEAEREGALEEAARLQYDQLHTVQQRREALEASQAEAQSAGTALLREQVEAGDIADLVARWTGIPVQRLLAGERRKLLALESHLSERVIGQVEAVAAVAAAIRRARAGMKDPRRPVGSFLFLGPTGVGKTELAKALATSLFDEEEALVRLDMSEFMERNASARLIGAPPGYVGYEEGGQLTEAVRRRPYAVLLLDEVEKAHPDVFNLLLQVLDDGRLTDSQGLTVDFRHTVVVMTSNLASPVILEHARSGSSDDAQLQQQVDAALSSQFRPEFLNRIDEVIRFRPLKVKDLVRIVRLQLADLSTLMAEQGLSLEVDDAVADSLARQGHEPEYGARPLRRVLRRQLENPLATQLLEERFRSAHGIRVRCGTDDGASLEFEPLE |
| 129 | sp|P81095|CSI5\_BACIU | MRNIKVKPFLN |
| 130 | sp|Q75IS2|CRSH3\_ORYSJ | MANAGVNETVAVAVAIDAPGVGHDHGAAGEVRRPSTRRLAPAGSGGRLMAELLGVFNGLTERMGEDVATSSSSRLLFRALKLALPALRDGGGDGGGGQSVSRALVVAASLADLQMDAEVISAGMVRGALDTGALAMADVEAQLGASAAGLVEESLKVKRAPSEVDVADEEAASALRKRCLSSYDIRAVILELAVKLDAMKHLDVLPKHQQRTTSLEVLKVFALLAHAVGAGELSLELEDLSFQRLYPQAYAHIDQWLSSQEDDCKRVIAASKEELLRALTADDELRCTVTGVDVMGRYKSRFSTMKKLVKDGRRPEDVNDILGMRVILDPRPGGGGGGDGDGGDRACLRTHEVIKAMWKDVPARTKDYITRPKGNGYRSLHVAVDMSEPGPEGKKRPLMEIQVRTREMDMAAVGGQASHALYKGGLTDPEEAKRLKAIMLAAAEVAAQHLRDEPAGDGGQTTAAASAATAGNVERAFQLLDKNGDGRISMEELTEIMEDLGAGGHDAEELMRLLDANSDGSLSSDEFALFQKRVKLKTKLENKDDEYKEILKQKLQKVDDTGLIHVYRKNLSDKLVLV |
| 131 | sp|Q7A4G0|CSHA\_STAAN | MQNFKELGISDNTVQSLESMGFKEPTPIQKDSIPYALQGIDILGQAQTGTGKTGAFGIPLIEKVVGKQGVQSLILAPTRELAMQVAEQLREFSRGQGVQVVTVFGGMPIERQIKALKKGPQIVVGTPGRVIDHLNRRTLKTDGIHTLILDEADEMMNMGFIDDMRFIMDKIPAVQRQTMLFSATMPKAIQALVQQFMKSPKIIKTMNNEMSDPQIEEFYTIVKELEKFDTFTNFLDVHQPELAIVFGRTKRRVDELTSALISKGYKAEGLHGDITQAKRLEVLKKFKNDQINILVATDVAARGLDISGVSHVYNFDIPQDTESYTHRIGRTGRAGKEGIAVTFVNPIEMDYIRQIEDANGRKMSALRPPHRKEVLQAREDDIKEKVENWMSKESESRLKRISTELLNEYNDVDLVAALLQELVEANDEVEVQLTFEKPLSRKGRNGKPSGSRNRNSKRGNPKFDSKSKRSKGYSSKKKSTKKFDRKEKSSGGSRPMKGRTFADHQK |
| 132 | sp|Q9FWQ2|TPP2\_ORYSJ | MDLKTSNSPVIADPLPKLALPSAVMTYTTPTSFPSTGLYLNTPKKKPLPGKIEEVRAAGWLDLMLASSPPRKRQTKDFANDVQADELDLLYRNWVVNHPSALTSFEDIVNLARGKRLALFLDYDGTLSPIVDNPENAVMSDEMRSAVKHVASLFPTAIISGRSRDKVFDFVKLTELYYAGSHGMDIMGPVRKSDSSGQHVECIRSTDSEGKEVNLFQPASEFLPMISEVYKKLSESIKDIDGARMEDNKFCVSVHYRNVAPHDYGEVHQRVTAVLKNYPCLRLTHGRKVLEVRPVIDWNKGKAVEFLLESLGLCGKEDVLPIYVGDDKTDEDAFKVLKANSIGFGILVSSVPKDTDAFYSVRDPAEVMEFLKKLASWKEEST |
| 133 | sp|O32269|TUAF\_BACSU | MNDILIRIARRIKKNIIWIIAVPIILGAAGYILPSQIADQKSYTAEDTLAVGSYDHPVYNSTEEIPLLLKSDSFLKEALPDEKDEDVAEIKEKLTINTESKSLLTLSYSDEDKDRTESVLNAISSTFLKNDQKLYAEREAVIRSSIDALEGESVSEDSKVDKERFLYELKNTQLNLKAASVTDSETVSETAGGGMSPKKKAVLGVMIGLTIAFMFVVIPEFFRESF |
| 134 | sp|P9WM78|Y0574\_MYCTO | MAGNPDVVTVLLGGDVMLGRGVDQILPHPGKPQLRERYMRDATGYVRLAERVNGRIPLPVDWRWPWGEALAVLENTATDVCLINLETTITADGEFADRKPVCYRMHPDNVPALTALRPHVCALANNHILDFGYQGLTDTVAALAGAGIQSVGAGADLLAARRSALVTVGHERRVIVGSVAAESSGVPESWAARRDRPGVWLIRDPAQRDVADDVAAQVLADKRPGDIAIVSMHWGSNWGYATAPGDVAFAHRLIDAGIDMVHGHSSHHPRPIEIYRGKPILYGCGDVVDDYEGIGGHESFRSELRLLYLTVTDPASGNLISLQMLPLRVSRMRLQRASQTDTEWLRNTIERISRRFGIRVVTRPDNLLEVVPAANLTSKE |
| 135 | sp|Q9FK81|Y5258\_ARATH | MATSGFKHLVVVKFKEDTKVDEILKGLENLVSQIDTVKSFEWGEDKESHDMLRQGFTHAFSMTFENKDGYVAFTSHPLHVEFSAAFTAVIDKIVLLDFPVAAVKSSVVATP |
| 136 | sp|O34763|YKOL\_BACSU | MSNLLKSALEKERRHYSEKLYQIGVYNKEVMNKMTISELRKEYAYFFRSITNHKNYPYTR |
| 137 | sp|A5A615|YNCL\_ECOLI | MNVSSRTVVLINFFAAVGLFTLISMRFGWFI |
| 138 | sp|Q9RRH3|RQKA\_DEIRA | MPLTPGTLLAGRYELLALLGEGGSAQVYRAQDGLLGREVALKVMHDYLPESDRSRFLREVRTLARLTHPGVVPVLDLGQEPEAGRPFFTMPLLTGGPITRLGPLEDAPGPLARFLTAAAFASRALHHVHSHGIVHRDLTPGNVLLDDTGLPRIMDFGLVALSEQTRHLTRSGVTLGTPAYMAPEQAKGGGVDARSDLYALGAVLYRVACGSPPFVGDSDQSVLYQHVYEPVPDPRDLNPAVPDAVARVLLWLLAKRADRRPQSGAALAHLWALARRDLWTTHARGQYRGGRARTGEHPDGPARVSDMQELWSVALPGEVTWPAAVVGEGDLVAVGTRGGQLVLTHTSGRPFATYAARDEVTAPATLIGGHVLYGAWDGTLRRVELQSGSEVWRHQARAEFTGAPTVWGGRLLAPSRDGHLHALSLRTGELAWAYRAGGSLAASPLVWAGAALQCDETGWLHALDARSGTPLWKVEVGTVHATPALLPGPPGTATLVIATWEGEVHAIGLEVQNGRAALAGEDAIRWTYDVEDEVWASPALTALDLPPDSGAAPDASAAPGGVVVVAGWGGKVRGLRLADGEDLWERTLDGRVTASPVISAGLVFLATEGGELLALDVRNGEVRWTCRERSGVQATPLAASGTLYVAFMDGTLRAYRNAHPEWRSEQEG |
| 139 | sp|C6DEF0|SBMC\_PECCP | MSIRIELAESMEVLSLRVVGPYYEKIPQGFDEILSWAREHHLSIDKSLAFYWDDPSKVEADELRADVAITCKEMPSTLPEDVGIRREVIPGGLYAVTHTIVENGDFAKAWDDFYKAINAQGYCPAGDICYESYLCDGSNGKWDIEIWQSVEAAN |
| 140 | sp|Q5HNZ5|SODM\_STAEQ | MAFELPNLPYAYDALEPHIDKQTMEIHHDKHHNTYVTKLNSAVEGTDLEAKSIEEIVANLDSVPSNIQTAVRNNGGGHLNHSLFWELLSPNSEEKGEVVDKIKEQWGSLDEFKKEFADKAAARFGSGWAWLVVNNGQLEIVTTPNQDNPITEGKTPILGLDVWEHAYYLKYQNKRPDYINAFWNVVNWEKVNELYNATK |
| 141 | sp|P0C0K4|SRKA\_ECOL6 | MNNSAFTFQTLHPDTIMDALFEHGIRVDSGLTPLNSYENRVYQFQDEDRRRFVVKFYRPERWTADQILEEHQFALQLVNDEVPVAAPVAFNGQTLLNHQGFYFAVFPSVGGRQFEADNIDQMEAVGRYLGRMHQTGRKQLFIHRPTIGLNEYLIEPRKLFEDATLIPSGLKAAFLKATDELIAAVTAHWREDFTVLRLHGDCHAGNILWRDGPMFVDLDDARNGPAVQDLWMLLNGDKAEQRMQLETIIEAYEEFSEFDTAEIGLIEPLRAMRLVYYLAWLMRRWADPAFPKNFPWLTGEDYWLRQTATFIEQAKVLQEPPLQLTPMY |
| 142 | sp|Q9W6V6|TEN1\_CHICK | MEQMDCKPYQPLSKVKHEVDLTYTSSSDESEDGRKQRQSYDSRETLNEYSQELRLNYNSQSRKRKNTDQSTQDMEFCETPHILCSGYQTDLHGVSEHSYPLEVGSDVDTETEGGASPDHALRMWMRGMKSEHSSCLSSRANSALSLTDTDHERKSDGENDMPGSPHNQFTFRPLPPPPPPPHACTCTRKPPPAADSLQRRSMTTRSQPSPAAPTPPTSTQDSVHLHNSWVLNSNIPLETRHFLFKHGSGSSAIFSAASQNYPLTSNTVYSPPPRPLPRNTFSRPAFTFSKPYRCCNWKCTALSATAITVTLALLLAYVIAVHLFGLTWQLQPVEGQLYENGVSKGNKGAESTDTTYSPIGGKVSDKTEKKVFQKGRAIDTGEVEIGAQVMQTIPPGLFWRFQITIHHPVYLKFNISLAKDSLLGIYGRRNIPPTHTQFDFVKLMDGKQLIKQEPKNSEEPQQAPRNLILTSLQETGFIEYMDQGAWHMAFYNDGKKVEQVFVLTTAIEVLDDCSTNCNGNGECISGHCHCFPGFLGPDCAKDSCPVLCSGNGEYEKGHCVCRNGWKGPECDVPEEQCIDPTCFGHGTCIMGVCICVPGYKGEICEEEDCLDPMCSGHGVCVQGECHCSAGWGGVNCETSLPICQEHCSGHGTFLLDVGLCSCEPQWTGSDCSTELCTLDCGSHGVCSRGICQCEEGWVGPTCEERTCHSHCAEHGQCKDGKCECSPGWEGDHCTIDGCPGLCYGNGRCTLDQNGWHCVCQVGWSGSGCNVVMEMACGDNLDNDGDGLTDCVDPDCCQQNNCYASPLCQGSPDPLDLIQHSQPPFSQHPPRLFYDRIRFLIGKESTHVIPGDISFESRRASVIRGQVVAIDGTPLVGVNVSFLHHDEYGYTISRQDGSFDLVAVGGISVTLVFDRSPFISEKRTLWLSWNRFVIVDKVVMQRAESDIPSCDVSSFISPNPIVLPSPLTAFGGSCPERGTVIPELQVVQEEIPIPSSFVKLSYLSSRTPGYKTLLRVILTHTTIPSGMTKVHLIIAVEGRLLQKWFPAAANLVYTFAWNKTDIYGQKVSGLAEAMVSVGYEYETCPDFILWEKRTVILQGFEMDASNLGGWSINKHHVLNPQSGIVHKGNGENMFISQQPPVISTMMGNGHQRSVSCSNCNGLALNSKLFAPVALTSGPDGSVYIGDFNFVRRIFPSGNSIGILELRNRDTRHSTSPAHKYYLAVDPVSESLYLSDTNTRRVYKAKSLIETKDLAKNVDVVAGTGDQCLPFDQSHCGDGGKASEASLNSPRGITIDKHGFIYFVDGTMIRKIDENGMITTIIGSNGLTSTQPLSCDSGMDITQVRLEWPTDLTVNPLDNSLYVLDNNIVLQISESRRVRIIAGRPIHCQVPGIDHFIVSKVAIHSTLESARAIAVSHSGIPYIRETDERKINRIQQVTTNGEISIIAGAPSDCDCKIDPNCDCFSGDGGYAKDAKLKAPSSLAVSPDDTLYVADLGNIRIRAVSRNKAHLSDTNMYEIASPADQELYQFTINGTHLHTLNLITRDYIYNFTYSGEGDVATITSSNGNSVHIRRDTSGLPLWVVVPGGQVYWLTISSNGVLKRVYAQGYNLALMTYPGNTGLLATKSDENGWTTVYEYDSDGHLTNATFPTGEVSSFHSDVEKLTRVELDTSNRENMVTATNFSATSTIYTLKQDNTQNIYRVSPDGSLRVTFASGMEITLNTEPHILAGVVSPTLGKCNISLPGEHNSNLIEWRQRREQTKGNISTFERRLRAHNRNLLSIDFDHVTRTGKIYDDHRKFTLRIMYDQTGRPVLWSPISKYNEVNITYSHSGLVTYIQRGTWTEKMEYDPSGNIISRTWADGKIWSYTYLEKSVMLLLHSQRRYIFEYDQSDYLLSVTMPSMVRHALQTMLSVGYYRNIYTPPDSGAAFIQDVTRDGRLLQTLYPGTGRRVLYKYSKQSRLSEILYDTTQVTFTYEESSGVIKTIHLMHDGFICTIRYRQTGPLIGRQIFRFSEEGLVNARFDYSYNNFRVTSMQAMINETPLPIDLYRYVDVSGRTEQFGKFSVINYDLNQVITTTVMKHTKIFSANGQVIEVQYEILKSIAYWMTIQYDNMGRMVICDIRVGVDANITRYFYEYDRDGQLQTVSVNDKTQWRYSYDLNGNINLLSHGNSARLTPLRYDLRDRITRLGEIQYKMDEDGFLRQRGNEIFEYNSNGLLNKAYNKVSGWTVQYCYDGLGRRVASKSSLGQHLQFFYADLSNPIRVTHLYNHSSSEITSLYYDLQGHLIAMELSSGEEYYVACDNTGTPLAVFSSRGQVIKEILYTPYGEIYQDTNPDFQVVIGFHGGLYDSLTKLVHLGQRDYDVIAGRWTTPNHHIWKHLNAVPQPFNLYSFENNYPVGRIQDVAKYTTDIGSWLELFGFQLHNVLPGFPKPEIEALETTYELLQLQTKTQEWDPGKTILGIQCELQKQLRNFISLDQLPMTPRYSDGKCYEGVKQPRFAAIPSVFGKGIKFAIKDGIVTADIIGVANEDSRRIAAILNNAHYLENLHFTIEGRDTHYFIKLGSLEEDLSLIGNTGGRRILENGVNVTVSQMTSVINGRTRRFADIQLQHGALCFNVRYGTTVEEEKNHVLEVARQRAVAQAWTKEQRRLQEGEEGIRAWTDGEKQQLLNTGRVQGYDGYFVLSVEQYLELSDSANNIHFMRQSEIGRR |
| 143 | sp|P23617|THI4\_FUSSH | MSPPAAVSPPARSAELASAPAVKLPVGLSKNSAAATTVEEMEGKWDDFKFAPIRESQVSRAMTRRYFQDLDNYAESDIVIVGAGSCGLSTRYILGKKRPDLKIAIIEASVSPGGGAWLGGQLFSAMVMRKPADAFLREVGVPYEDEGNYVVVKHAALFTSTIMSKVLQLPNCKLFNATCVEDLITRPSKEGVRISGVVTNWTLVSMHHDDQSCMDPNTINAPLVISTTGHDAPMGAFCVKRLVSMGRIEKLGGMRGLDMNVAEDAIVKGTREIVPGLIVGGMELSEVDGANRMGPTFGAMVLSGLKAAEEALKVIDIRQKQNSF |
| 144 | sp|F4KFG5|TPPI\_ARATH | MSASQNIVVSETTMSSIIPNNNNNNNNSSSQKLPPCLISISKKKLLKNIDIINGGGQRINAWVDSMRASSPTHLKSLPSSISTQQQLNSWIMQHPSALEKFEQIMEASRGKQIVMFLDYDGTLSPIVDDPDKAFMSSKMRRTVKKLAKCFPTAIVTGRCIDKVYNFVKLAELYYAGSHGMDIKGPAKGFSRHKRVKQSLLYQPANDYLPMIDEVYRQLLEKTKSTPGAKVENHKFCASVHFRCVDEKKWSELVLQVRSVLKKFPTLQLTQGRKVFEIRPMIEWDKGKALEFLLESLGFGNTNNVFPVYIGDDRTDEDAFKMLRDRGEGFGILVSKFPKDTDASYSLQDPSEVMDFLRRLVEWKQMQPRM |
| 145 | sp|Q5A2J7|YVC1\_CANAL | MSELDLEENNPLLPPSQINDENYEGSIFGEDARFCPNSRQVFRICSNLKLLIDKIIPICFKEDEITSSNSAILSDPVIDLVYQAAGGKGDGKEGTSSYKYRGSLVFCLLKVCDWYWQQAEFELSDNELYSLRALTAQTIAAIIIEREKRDKYLFLNMLCHRYTICVNGVDATPVSALEMAVDMHSTIVIGSSGYQRCIKWLWRGWIIQSSTDPHSYVLYKGAASQSFRTHFDPARIKTPLYQNILEIFLSIIYLIIFTIVVNTHSTLTGDIDFFETVLYLFTVGYILDEFIKFYHVGWNYLGFWNAFNDTMYCILTVAVCFRIASVNSHGATRIKYDEISFRVLACASPLMWSRLLLFLDAYKFVGAMIVVLKTMMKESILFFFLLFVVIVGFLQGFIGLDSSDGKNEATQRILISLVKAVIGGSSFEDMGNLVPPYASVLYYFYQFMLTVILMNILIALYSTAYAAIVENATDEYFALVAHKTLRYIRAPDQNLYVPPFNLIELLITPIGWFVSTSTWKNINYYVMLVIYSPLLAYITSDELSNARRIQYNRFKGVPDDANEIDTEWDLTDGYDEDSPGDGDDCWDRIRERNSEITEELRIQREGERQDPEFMINTHQFSEKIDKIVKPVGQASKVGVNWQIYEVIEKIDKLTNLLEVVVAENKELKKRLENKA |
| 146 | sp|B5Y301|YTFE\_KLEP3 | MAFRDQPLGELALTIPRASALFRQYDMDYCCGGKQTLARAASRKALDVAVIEAELAKLAEQPLSRDWRAAPLPEIIDHIIVRYHDRHREQLPELILQATKVERVHADKPNVPKGLTKYLTMLHQELSSHMMKEEQILFPMIKQGMGAQAGGPISVMESEHDEAGELLEVIKHITHNVTPPPEACTTWKAMYNGINEMIDDLMEHISLENNVLFPRALAGK |
| 147 | sp|A4W5T7|YTFE\_ENT38 | MAFRDQPLGELVLSIPRASALFRKYDMDYCCGGKQTLERAALRKELDVDAIEAELAQLAEQPIDKDWRTVALGEIIDHIIVRYHDRHREQLPELILQATKVERVHADKASVPRGLAKYLTMLHEELFSHMMKEEQILFPMIKQGMGSQAMGPISVMESEHDDAGELLEVIKHTTDNVTPPADACTTWKAMYNGINELIDDLMEHISLENNVLFPRALAGE |
| 148 | sp|A7FMV8|YTFE\_YERP3 | MDYRNQSLGALAIAIPRATKLFRQHQLDFCCGGKQTLLRAANKLNLDIDALEAQLSALQTEPHSSEDWQQQPLTNLISFIISRYHDRHREQLPELVLMAEKVERVHGDKPTCPRGLAAELSAILEELTQHMYKEEQILFPMIQRGMGSQASGPIFVMEAEHDAVGQQLDVVKQLTQNVTPPEGACNTWRALYTGINEFITDLMEHIHLENNLLFPRALRGE |
| 149 | sp|P64567|YQGB\_ECOLI | MKKKPVAQLERQHSLLENPCAYGLLSQFQAAIVVNCFTLNKII |
| 150 | sp|Q84JR9|TTL4\_ARATH | MSHYRRHSLEPSITSKFRDSLSFQRDDDVINKPDFRELDFGSPLRPRGSSSAAATPAASGSSSSSSGSASGKPAVTSQFARRSHSGELSGLSQTSPVKPGSVNRNLKPGHRRSASAGTPLIYSGLGFSPVNNNNNSSRGGGSGATSPNPGVLPTGNICPSGRILKTGMATRASVRPETLCTGTANYGHGNIIRTGGKVSHATKAAAEMSDSEEVKKAGNVMYRKGNYAEALALYDRAISLSPENPAYRSNRAAALAASGRLEEAVKECLEAVRCDPSYARAHQRLASLYLRLGEAENARRHLCVSGQCPDQADLQRLQTLEKHLRLCTEARKIGDWRTVISEIDAAIANGADSSPQLVACKAEAFLRLHQIKDSDLCISSIPRLDHHHTQPPEKLFGIVCDAYVLCVQAQVDMALGRFENAIVKVERAMTIDHSNSPEVVSVLNNVKNVAKARTRGNELFSSGRYSEASVAYGDGLKLDAFNSVLYCNRAACWFKLGMWEKSVDDCNQALRIQPSYTKALLRRAASYGKLGRWEDAVRDYEVLRKELPGDSEVAESLQRARNALSNKSEEPKYLGFNNEVEEVSTLDKFKTATSLPGISVFHFKSSSNRQSEAISPFVNTLCLRYPLVHFFKVDVEESLALAKAESIKKIPTFKIYKKGEKVKEMVCPSHQLLEDSVTHFLL |
| 151 | sp|P40388|UVI15\_SCHPO | MSAQQFYGDKGYAPAPPQQAYGGPNYYPPQQNYPQQGYAPPQGYPQGGYPAQQPMYVQQPQASDPGGDLCCGLLTGLACCCCLDAMF |
| 152 | sp|Q9C5T3|WRK26\_ARATH | MGSFDRQRAVPKFKTATPSPLPLSPSPYFTMPPGLTPADFLDSPLLFTSSNILPSPTTGTFPAQSLNYNNNGLLIDKNEIKYEDTTPPLFLPSMVTQPLPQLDLFKSEIMSSNKTSDDGYNWRKYGQKQVKGSENPRSYFKCTYPNCLTKKKVETSLVKGQMIEIVYKGSHNHPKPQSTKRSSSTAIAAHQNSSNGDGKDIGEDETEAKRWKREENVKEPRVVVQTTSDIDILDDGYRWRKYGQKVVKGNPNPRSYYKCTFTGCFVRKHVERAFQDPKSVITTYEGKHKHQIPTPRRGPVLRLLGKTET |
| 153 | sp|C1P606|YOEI\_ECOLI | MGQFFAYATVITVKENDHVA |
| 154 | sp|O32211|YVGO\_BACSU | MKRIRIPMTLALGAALTIAPLSFASAEENPAPKMSQTTTAGTTAADVGLNVNLDVLGIANQIADAIKSAQNRDGFVKNLMESSFYASGQKYNVMVFNLSQEYEDHLNGVQFYGSAVYDGITYGIWVFEDGTFTNKGDGGWINWAFRGWFDRDGSTVAFHRP |
| 155 | sp|C6CL12|YTFE\_DICC1 | MHYRDQSLGELAITIPRATALFREFNLDFCCGGKQTLLRAATKRALDIDMLESRLADLSTQPSTEKDWQQASLGEMIVHIISRFHDRHRAQLPELIRMAEKVERVHHDKPGCPIGLTDQLTLIHDDLTQHMMKEERILFPMIQSGMGTQAGGPISVMEHEHDDAGQQLDVIKSLTNDVTPPDNACTTWRALYTGINEFIDDLMEHIHLENNQLFPRALRGE |
| 156 | sp|A6THB9|YTFE\_KLEP7 | MAFRDQPLGELALTIPRASALFRQYDMDYCCGGKQTLARAASRKALDVAVIEAELAKLAEQPLSRDWRAAPLAEIIDHIIVRYHDRHREQLPELILQATKVERVHADKPNVPKGLTKYLTMLHQELSSHMMKEEQILFPMIKQGMGAQAGGPISVMESEHDEAGELLEVIKHITHNVTPPPEACTTWKAMYNGINEMIDDLMEHISLENNVLFPRALGGK |
| 157 | sp|B7M9H2|YTFE\_ECO8A | MAYRDQPLGELALSIPRASALFRKYDMDYCCGGKQTLSRAAARKELDVEVIEAELAKLAEQPIEKDWRSAPLAEIIDHIIVRYHDRHREQLPELILQATKVERVHADKPSVPKGLTKYLTMLHEELSSHMMKEEQILFPMIKQGMGSQAMGPISVMESEHDEAGELLEVIKHTTNNVTPPPEACTTWKAMYNGINELIDDLMDHISLENNVLFPRALAGE |
| 158 | sp|B7UQM4|YTFE\_ECO27 | MAYRDQPLGELALSIPRASALFRKYDMDYCCGGKQTLARAAARKELDVDVIEAELAKLAEQPIEKDWRSAPLAEIIDHIIVRYHDRHREQLPELILQATKVERVHADKPSVPKGLTKYLTMLHEELSSHMMKEEQILFPMIKQGMGSQAMGPISVMESEHDEAGELLEVIKHTTNNVTPPPEACTTWKAMYNGINELIDDLMEHISLENNVLFPRALAGE |
| 159 | sp|Q31TE9|YTFE\_SHIBS | MAYRDQPLGELALSIPRASALFRKYNMDYCCGGKQTLARAAARKELDVEVIEAELAKLAEQPIEKDWRSAPLAEIIDHIIVRYHDRHREQLPELILQATKVERVHADKPSVPKGLTKYLTMLHEELSSHMMKEEQILFPMIKQGMGSQAMGPISVMESEHDEAGELLEVIKHTTNNVTPPPEACTTWKAMYNGINELIDDLMDHISLENNVLFPRALAGE |
| 160 | sp|Q9ZUD9|SRO2\_ARATH | MAAQVEIEDQTSVTNLDNGEIFDSISDDADSSVSHAGSSFSSSSLILLGEGNPEHDVIKTCLLSGMGVVSSDTTIVTISKNSSERGITTRAKFLAFRIFTDAVARKHGGDANVKYGWYAGSRDEIQRIISYGFSNRDVGKFENDGGSHGIGIHLVPSKCSLLAASATEQDEEGLRYLLLCRVILGKPEIIISGSKQSYPSSAEFDSGVDDLHNPRNYVIWSCNMNSCILPSYIVSFRSPRLRVSRGGFASRPSSPWVSFASLMSMLSTSMDPSRMNLIIRTYDDFRKRKIRRDQLVRKMREVAGDNLLAEIIKNHKNRNKVTN |
| 161 | sp|Q5AKU6|SSK1\_CANAL | MNFLYNNSDYSSTSHTMKSPSAYNQFPKLQASNSTAGNNNTATTATAAAAAASASASASVTPQLISPTTLTTPQNKYKRGGLDNTLPKIETTRKNRPDDGNSITPSNSINSGTTKLTLPPRRVWVKKPQTNNPTTVLCYVNDIIDDLKVAVVNKYPNTIGRYEDAADLLVKIDLNNIRVPVSPSVNRVSQRTPFDNCIILEPDQNVWQILDNYFPNGMAMHDALIIETPTFKPDHQMLTPITANMNNNSNTFIPFQERQSSIGNNNNNNSNVNNNNKAQAVKHPQPMQPNNTRVGLHKSYAMNRSSFSTNNNPVPSIIKDRSVSPSNLGVSRNSPVSHKRSYSNPVSSPNSVATQANNPSAVLLLPRNFSLANNNSNQASQSSGGTPAKKVLSEDGSKSVNDKTEEVVSSKLKPNDNNKSYQAKQQEQQTAEQSENGFSETSASPEAVHNSKAAPLPLTKSSTTATTTSSNSISNNNNTSSKGKPSQSKLKAANDPTPTDIVLPSISVLVVEDNAINQAILGAFLRKRKIHYQIAKNGQEAIDKWKKGGFHLVLMDIQLPVKSGIEATKEIRHLEKLNRIGVFHENEIGKNVIINEEDRLTSNTFRSPVIIVALTASSNSSVDKTNALTAGCNDYLTKPVNLVWLQNKITEWGCMQALIDFDGWKDKNRRLNKA |
| 162 | sp|Q9WTS4|TEN1\_MOUSE | MEQTDCKPYQPLSKVKHEMDLAYTSSSDESEDGRKPRQSFNSRETLHEYNQELRRNYNSQSRKRKDVEKSTQEIEFCETPPTLCSGYHTDMHSVSRHGYQLEMGSDVDTETEGAASPDHALRMWIRGMKSEHSSCLSSRANSALSLTDTDHERKSDGENGFKFSPVCCDMEAPADSAQDMQSSPHNQFTFRPLPPPPPPPHACTCARKPPPTVDSLQRRSMTTRSQPSPAAPAPPTSTQDSVHLHNSWVLNSNIPLETRHFLFKHGSGSSAIFSAASQNYPLTSNTVYSPPPRPLPRSTFSRPAFTFNKPYRCCNWKCTALSATAITVTLALLLAYVIAVHLFGLTWQLQPVGQIYANGISNGNPGTESMDTTYSPIGGRVSDKSEKKVFQKGRAIDTGEVDIGAQVMQTIPPGLFWRFQITIHHPIYLKFNISLAKDSLLGIYGRRNIPPTHTQFDFVKLMDGKQLVKQDSKSSDDIQHSPRNLILTSLQETGFIEYMDQGPWYLAFYNDGKKMEQVFVLTTAIEIMDDCSTNCNGNGECISGHCHCFPGFLGPDCARDSCPVLCGGNGEYEKGHCVCRNGWKGPECDVPEEQCIDPTCFGHGTCIMGVCICVPGYKGEICEEEDCLDPMCSSHGICVKGECHCSTGWGGVNCETPLPICQEQCSGHGTFLLDTGVCSCDPKWTGSDCSTELCTMECGSHGVCSRGICQCEEGWVGPTCEERSCHSHCAEHGQCKDGKCECSPGWEGDHCTIAHYLDAVRDGCPGLCFGNGRCTLDQNGWHCVCQVGWSGTGCNIVMEMLCGDNLDNDGDGLTDCVDPDCCQQSNCYVSPLCQGSPDPLDLIQQSQPLFSQHTSRLFYDRIKFLIGKDSTHVVPQDISFDSRRACVIRGQVVAVDGTPLVGVNVSFLHHSDYGFTISRQDGSFDLVAIGGISVVLIFDRSPFLSEKRTLWLPWNQFIVVEKVIMQRIVADAPSCDISNFISPNPIVLPSPLTSFGGSCPERGTIVPELQVVQEEIPIPSSFVRLSYLSSRTPGYKTLLRILLTHSTIPVGMIKVHLTVSVEGRLTQKWFPAAINLVYTFAWNKTDIYGQKVWGLAEALVSVGYEYEMCPEFILWEQRTVVLQGFEMDASNLGGWSLNKHHIFNPQSGIIHKGNGENMFISQQPPVIATIMGNGHQRSVACTNCNGPAHNNKLFAPVALASGPDGSVYVGDFNFVRRIFPSGNSVSILELRNRDTRHSTSPAHKYYLAMDPMSESLYLSDTNTRKVYKLKSLVETKDLSKNFEVVAGTGDQCLPFDQSHCGDGGKASEASLNSPRGITVDRHGFIYFVDGTMIRRIDENAVITTVIGSNGLTSTQPLSCDSGMDITQVRLEWPTDLAVNPMDNSLYVLDNNIVLQISENRRVRIIAGRPIHCQVPGIDHFLVSKVAIHSTLESARAISVSHSGLLFIAETDERKVNRIQQVTTNGEISIIAGAPTDCDCKIDPNCDCFSGDGGYAKDAKMKAPSSLAVSPDGTLYVADLGNVRIRTISKNQAHLNDMNLYEIASPADQELYQFTVNGTHLHTMNLITRDYVYNFTYNAEGDLGAITSSNGNSVHIRRDAGGMPLWLVVPGGQVYWLTISSNGVLKRVSAQGYNLALMTYPGNTGLLATKSNENGWTTVYEYDPEGHLTNATFPTGEVSSFHSDLEKLTKVALDTSNRENVLMSTNLTATSTIYILKQENTQSTYRVSPDGSLRVTFASGMEINLSSEPHILAGAVNPTLGKCNISLPGEHNANLIEWRQRKEQNKGNVSAFERRLRAHNRNLLSIDFDHMTRTGKIYDDHRKFTLRILYDQTGRPILWSPVSRYNEVNITYSPSGLVTFIQRGTWNEKMEYDQSGKIISRTWADGKIWSYTYLEKSVMLLLHSQRRYIFEYDQSDCLLSVTMPSMVRHSLQTMLSVGYYRNIYTPPDSSTSFIQDYSRDGRLLQTLHLGTGRRVLYKYTKQARLSEILYDTTQVTLTYEESSGVIKTIHLMHDGFICTIRYRQTGPLIGRQIFRFSEEGLVNARFDYSYNNFRVTSMQAVINETPLPIDLYRYVDVSGRTEQFGKFSVINYDLNQVITTTVMKHTKIFNANGQVIEVQYEILKAIAYWMTIQYDNMGRMVICDIRVGVDANITRYFYEYDADGQLQTVSVNDKIQWRYSYDLNGNINLLSHGNSARLTPLRYDLRDRITRLGEIQYKMDEDGFLRQRGNDIFEYNSNGLLQKAYNKVSGWTVQYYYDGLGRRVASKSSLGQHLQFFYADLANPIRVTHLYNHTSAEITSLYYDLQGHLIAMELSSGEEYYVACDNMGTPLAVFSSRGQVIKEILYTPYGDIYHDTYPDFEVIIGFHGGLYDFLTKLVHLGQRDYDVVAGRWTTPNHHIWKQLNLLPKPFNLYSFENNYPVGKIQDVAKYTTDIGTWLELFGFQLHNVLPGFPKPELENMELTYELLQLQTKTQEWDPGKMILGIQCELQKQLRNFISLDQLPMTPQYNEGRCLEGGKQPRFAAVPSVFGKGIKFAIKEGIVTADIIGVANEDSRRLAAILNNAHYLENLHFTIEGRDTHYFIKLGSLEEDLVLIGNTGGRRILENGVNVTVSQMTSVLNGRTRRFADIQLQHGALCFNIRYGTTVEEEKNHVLEMARQRAVAQAWTQEQRRLQEGEEGTRVWTEGEKQQLLGTGRVQGYDGYFVLSVEQYLELSDSANNIHFMRQSEIGRR |
| 163 | sp|A2Z6V9|TI11D\_ORYSI | MAAAGSSSRFAVTCGLLSQYMRERQQPQPPVTVLEAVAEEEEEEDARTMQLFPPRAAAADGVATPSAGTAPLTIFYDGRMVVVDDVPAEKAAELMRLAGSACSPPQPAHAAALPEMPIARKASLQRFLQKRKHRITTTSEPYKKAAVASPAPEKSFAVAPVKDEPATWLGL |
| 164 | sp|A5LGM7|TRET1\_POLVA | MELNNKEDSPRHTVPFVRQITEDGKAKLEIYRPTTNPIYIYTQILAAIAVSMGSMVVGFASAYTSPALVSMQNTTITSFKVTEQEASWVGGIMPLAGLAGGIAGGPFIEYLGRKNTILATAVPFIVAWLLIAFANSIWMVLAGRALSGFCVGIASLSLPVYLGETVQPEVRGTLGLLPTAFGNIGILICFVAGKYVNWSGLAFIGSILPIPFMVLTLLIPETPRWFVTRGREERARKALQWLRGKKADVEPELKGIVKSHCEAERHASQNAIFDLMKRSNLKPLLIALGLMFFQQLSGINAVIFYTVSIFKDAGSTIDENLCTIIVGVVNFGATFFATVLIDRLGRKILLYISEVAMVITLLTLGTFFYYKNSGNDVSNIGWLPLASFVIYVIGFSSGVGPIPWLMLGEILPGKIRGSAASVATGFNWTCTFIVTKTFADIVAAIGNHGAFWFFGVICLIGLFFVIFFVPETQGKSLEEIERKMMGRVRRMSSVANMKPLSFNM |
| 165 | sp|Q9SYK9|U74E2\_ARATH | MREGSHLIVLPFPGQGHITPMSQFCKRLASKGLKLTLVLVSDKPSPPYKTEHDSITVFPISNGFQEGEEPLQDLDDYMERVETSIKNTLPKLVEDMKLSGNPPRAIVYDSTMPWLLDVAHSYGLSGAVFFTQPWLVTAIYYHVFKGSFSVPSTKYGHSTLASFPSFPMLTANDLPSFLCESSSYPNILRIVVDQLSNIDRVDIVLCNTFDKLEEKLLKWVQSLWPVLNIGPTVPSMYLDKRLSEDKNYGFSLFNAKVAECMEWLNSKEPNSVVYLSFGSLVILKEDQMLELAAGLKQSGRFFLWVVRETETHKLPRNYVEEIGEKGLIVSWSPQLDVLAHKSIGCFLTHCGWNSTLEGLSLGVPMIGMPHWTDQPTNAKFMQDVWKVGVRVKAEGDGFVRREEIMRSVEEVMEGEKGKEIRKNAEKWKVLAQEAVSEGGSSDKSINEFVSMFC |
| 166 | sp|G8QM63|YEDY1\_AZOOP | MFPKKNRPMIANGDRVLKDAFKDVGKYIELPARRAFLQRSMTLGGLSLLTGCAITDDESVESALLAMSRFNNCVQGWLFDPNQLAPIYPESMITRPFPFNAYYGDDEVREVDAASFRLEVSGLVSDKHAWTLDELHALPQVDQVTRHICVEGWSAIGKWSGVPFTTFLRLVGADLDAKYVGFKCADDYYTSIDMATALHPQTQLTLSYDGQTLPARYGFPMKLRMPTKLGYKNPKYIQALFVTNSYPGGYWEDQGYNWFGGS |
| 167 | sp|P0A8D6|YMDB\_ECOLI | MKTRIHVVQGDITKLAVDVIVNAANPSLMGGGGVDGAIHRAAGPALLDACLKVRQQQGDCPTGHAVITLAGDLPAKAVVHTVGPVWRGGEQNEDQLLQDAYLNSLRLVAANSYTSVAFPAISTGVYGYPRAAAAEIAVKTVSEFITRHALPEQVYFVCYDEENAHLYERLLTQQGDE |
| 168 | sp|P71346|YFIA\_HAEIN | MTLNITSKQMDITPAIREHLEERLAKLGKWQTQLISPHFVLNKVPNGFSVEASIGTPLGNLLASATSDDMYKAINEVEEKLERQLNKLQHKSESRRADERLKDSFEN |
| 169 | sp|P0AGB8|RPOE\_ECO57 | MSEQLTDQVLVERVQKGDQKAFNLLVVRYQHKVASLVSRYVPSGDVPDVVQEAFIKAYRALDSFRGDSAFYTWLYRIAVNTAKNYLVAQGRRPPSSDVDAIEAENFESGGALKEISNPENLMLSEELRQIVFRTIESLPEDLRMAITLRELDGLSYEEIAAIMDCPVGTVRSRIFRAREAIDNKVQPLIRR |
| 170 | sp|Q654B3|RSBZ5\_ORYSJ | MMKKCPSELQLEAFIREEAGAGDRKPGVLSPGDGARKSGLFSPGDGEMSVLDQSTLDGSGGGHQLWWPESVRTPPRAAAAFSATADERTPASISDDPKPTTSANHAPESDSDSDCDSLLEAERSPRLRGTKSTETKRIRRMVSNRESARRSRRRKQAQLSELESQVEQLKGENSSLFKQLTESSQQFNTAVTDNRILKSDVEALRVKVKMAEDMVARAAMSCGLGQLGLAPLLSSRKMCQALDMLSLPRNDACGFKGLNLGRQVQNSPVQSAASLESLDNRISSEVTSCSADVWP |
| 171 | sp|A8Z0M2|SCDA\_STAAT | MINKNDIVADVVTDYPKAADIFRSVGIDFCCGGQVSIEAAALEKKNVDLNELLQRLNDVEQTNTPGSLNPKFLNVSSLIQYIQSAYHEPLREEFKNLTPYVTKLSKVHGPNHPYLVELKETYDTFKNGMLEHMQKEDDVDFPKLIKYEQGEVVDDINTVIDDLVSDHIATGELLVKMSELTSSYEPPIEACGTWRLVYQRLKALEVLTHEHVHLENHVLFKKVS |
| 172 | sp|Q2FK11|SCDA\_STAA3 | MINKNDIVADVVTDYPKAADIFRSVGIDFCCGGQVSIEAAALEKKNVDLNELLQRLNDVEQTNTPGSLNPKFLNVSSLIQYIQSAYHEPLREEFKNLTPYVTKLSKVHGPNHPYLVELKETYDTFKNGMLEHMQKEDDVDFPKLIKYEQGEVVDDINTVIDDLVSDHIATGELLVKMSELTSSYEPPIEACGTWRLVYQRLKALEVLTHEHVHLENHVLFKKVS |
| 173 | sp|A9MLN2|SBMC\_SALAR | MDYEIRQEQKRKIAGFHMVGPWEHTVKQGFKQLMMWVDGKQIVPIEWIAVYYDNPDEVPAEKLRCDTVVSVAENFVLPDNSEGVIVTEIEGGEYATAVARVEDHDFATPWYQFFDALLQDSAYQITSEPCFETYLNNGVEDGYWDIEMYIPVRRK |
| 174 | sp|F4KGN5|S40A2\_ARATH | MEEETETRVFLSNEQHQEEEEEEEEEPSLPRSMVISLYLGYFLARWGARTWEFSVALYMIYLWPNSLFLTAMYGVVESGSATLFGPIVGQMIDGMSYVKVLRLWLVTQNLSFIVAGGAVVALLVVPDLKSQNFPVFATLVVLTNLSGAIGVLSTLAGTVLIERDWVVVMSEGHSPAVLTRMNSVIRGIDLSSKLLSPVITGLIISFVSLRASAITFAAWATITVWIEYWLFISVYNGVPAIVQSDERRSLRSSQSQAEETDSASSFYVPLLHEEESYRNTQSRSRILRILERISESSFVSAWRNYLNQEIVLPGVSLALLFFTVLSFGTLMTATLEWKGIPTYIIGIGRGISAGVGLAATVLYPLMQSRISPLRTGVWSFWSQWTCLLVCVGSIWVEKEKIASYMLMAGVAASRLGLWMFDLAVIQQMQDLVPESDRCVVGGVQNSLQSALDLMANLLGIIVSNPKDFWMLTLISFATVSLAGILYTIHLYRIRKHLFHLEKIPLLNNFFAS |
| 175 | sp|Q9LIN3|RZ1A\_ARATH | MSEDPEYRCFIGGLAWTTSDRGLRDAFEKYGHLVEAKVVLDKFSGRSRGFGFITFDEKKAMDEAIAAMNGMDLDGRTITVDKAQPHQGGAGRDNDGDRGRDRGYDRDRSRPSGGRGGGDCFKCGKPGHFARECPSESSRDGGGRFSSKDDRYSSKDDRYGAKDDRYGAKEDRYGAKDDRYSSKDDRYSSKDDRYGSRDGGGSRYGPDRSGERAGGRSRDGGSRGAPGGERHSRAPYDRPRAGGFH |
| 176 | sp|A0A024B7I0|SCL7\_POPEU | MAYMCADSGNLMAIAQQVIKQKQQQEQQQQQSHHPQQQFLGLNPFSLNPWPSTTMSANPNLGYGLSGPAAFSDPFQSGPDTGDPPGFSFSNMEHQHSGGFRFPDFTGAGGEFDSDEWMDSLMNGGDSTDSSNLPSGCDAWQNNADFGIYPSDPFNTSPSRLTVGCSPPSDLNRVISDSLWADPSPQEIKPKTSPPQQPPPTAKNEVVVGSKEVVELSSSPVLKAFVECAQLVESKVDQAVKSLIKLKESVSENGDPGERVGFYFVQGLCRRVAVGELDDLKNFHQTTSEEFTLSYKALNDACPYSKFAHLTANQAILEATEKASKIHIVDFGIVQGIQWAALLQALATRSAGKPVRIRISGIPAPVLGKNPAASLLATGNRLLDFAKLLDLNFEFEPILTPIQELNESCFRVEPDEVLAVNFMLQLYNLLGETPGAVETALKMAKSLNPRIVTLGEYEVSLNRVGYLTRFKNALRYYTAVFESLDPNMSRDSQERLQVERLLLGRRISGVLGPDGIRRERMENKEQWRVLMESSGFESVSLSHYAMSQAKILLWNYNYSTLYSLDDSQPAFLTLAWNEVPLLTVSSWR |
| 177 | sp|P9WGI4|SIGB\_MYCTO | MADAPTRATTSRVDSDLDAQSPAADLVRVYLNGIGKTALLNAAGEVELAKRIEAGLYAEHLLETRKRLGENRKRDLAAVVRDGEAARRHLLEANLRLVVSLAKRYTGRGMPLLDLIQEGNLGLIRAMEKFDYTKGFKFSTYATWWIRQAITRGMADQSRTIRLPVHLVEQVNKLARIKREMHQHLGREATDEELAAESGIPIDKINDLLEHSRDPVSLDMPVGSEEEAPLGDFIEDAEAMSAENAVIAELLHTDIRSVLATLDEREHQVIRLRFGLDDGQPRTLDQIGKLFGLSRERVRQIERDVMSKLRHGERADRLRSYAS |
| 178 | sp|Q9SJ05|SK1\_ARATH | MEAAITQRIQYPSWVDCRKVECKPQRGSLRYSQQVKVDRRFRGLSLARLQPERRNDQRRAVSPAVSCSDNNSSALLETGSVYPFDEDILKRKAEEVKPYLNGRSMYLVGMMGSGKTTVGKLMSKVLGYTFFDCDTLIEQAMNGTSVAEIFVHHGENFFRGKETDALKKLSSRYQVVVSTGGGAVIRPINWKYMHKGISIWLDVPLEALAHRIAAVGTDSRPLLHDESGDAYSVAFKRLSAIWDERGEAYTNANARVSLENIAAKRGYKNVSDLTPTEIAIEAFEQVLSFLEKEETMEIPDGDL |
| 179 | sp|A6ZR73|SHO1\_YEAS7 | MSISSKIRPTPRKPSRMATDHSFKMKNFYADPFAISSISLAIVSWVIAIGGSISSASTNESFPRFTWWGIVYQFLTICSLMLFYCFDLVDHYRIFITTSIAVAFVYNTNSATNLVYADGSKKAAASAGVILLSIINLIWILYYGGDNASPTNRWIDSFSIKGIRPSPLENSLHRARRRGNRNTTPYQNNVYNDAIRDSGYATQFDGYPQQQPSHTNYVSSTALAGFENTQPNTSEAVNLHLNTLQQHINSASNAKETNDNSNNQTNTNIGNTFDTDFSNGNTETTMGDTLGLYSDIGDDNFIYKAKALYPYDADDDDAYEISFEQNEILQVSDIEGRWWKARRANGETGIIPSNYVQLIDGPEEMHR |
| 180 | sp|C7GKW5|SHO1\_YEAS2 | MSISSKIRPTPRKPSRMATDHSFKMKNFYADPFAISSISLAIVSWVIAIGGSISSASTNESFPRFTWWGIVYQFLIICSLMLFYCFDLVDHYRIFITTSIAVAFVYNTNSATNLVYADGPKKAAASAGVILLSIINLIWILYYGGDNASPTNRWIDSFSIKGIRPSPLENSLHRARRRGNRNTTPYQNNVYNDAIRDSGYATQFDGYPQQQPSHKNYVSSTALAGFENTQPNTSEAVNLHLNTLQQRINSASNAKETNDNSNNQTNTNIGNTFDTDFSNGNTETTMGDTLGLYSDIGDDNFIYKAKALYPYDADDDDAYEISFEQNEILQVSDIEGRWWKARRANGETGIIPSNYVQLIDGPEEMHR |
| 181 | sp|G5EDF7|SEK1\_CAEEL | MERKGRERKLPGMKIVMPTPVETPTMNLEDRCLIKLTNESEEIEIAATDLVVLEELGKGGYGIVEKMQHRQSGIIMAVKRIKSSINDQSQKQMLNELDACRRSDCCPQMVRFYGAMFREGDVWICMEVMDTSLDKFYRHAYKIGKHIPEPFIGKMALSVIEGLNFMKEQLNLIHRDVKPSNILLNRHGQVKICDFGISGHLTNSMAKTVQAGCKPYMPPERIDGETKSAYDVRADVWSLGITIIEIAVGTHPYANWKTPFEQLKQVVKEPPPKLPMESGFSVDCQYFVKRCLEKDYNERPKYPELLAMPFMEQARNEKQFSMARFINEILDTVWRR |
| 182 | sp|Q6Z517|SMAX1\_ORYSJ | MRADLSTIQQTLTPEAAAALARAMDEAGRRRHGQTTPLHVAAALLAAPAGLLRQACARAASAAGVGGGGGAAAGAGAGAHPLHCRALELCFSVALDRLPAAAAAAAAAHGAGASPPVSNALVAALKRAQAQQRRGCPEAAQQPLLAVKVELEQLVLSILDDPSVSRVMREASFSSAAVKSIIEQSLSAPSPCPSAAASTTTAGPGPLSPSPSPLPRAGAANAYLNPRLAAAAAVASGGGGGGGDDARKVIDVMLKPTRRNPVLVGDAGPDAVLKEAIRRIPTAGFPALAGAKVLPLEAELAKLAGDKAAMAARIGDLGAVVERLLGEHGGVVLDLGDLKWLVDGPAAAASEGGKAAVAEMGRLLRRFGRAGVWAVCTAACTTYLRCKVYHPGMEAEWDLHAVPIARGGAPIAAAAAGSALRPGGSGILNSSMGMLSPALRPMPVTPTALRWPPPGSDQSPAAKPAMCLLCKGSYERELAKLEAEQTDKPASRPEAAKPGLPHWLQLSNDQNKAKEQELKLKRSKDELERKWRETCARIHSACPMAPALSVPLATFTPRPPVEPKLGVARGAAVPTLKMNPSWEKPSVAPTLELRKSPPASPVKTDLVLCRLDPGTNPAVENEQKESCEGLTALQKAKIAGISDIESFKRLLKGLTEKVSWQSDAASAIAAVVIQCRSGSGKRRNVGTRGDMWLLFVGPDQAGKRKMVNALSELMANTRPVVVNFGGDSRLGRVGNDGPNMGFWGKTALDRVTEAVRQNPFSVIVLEGIDQVDVVVHGKIKRAMETGRLPDSRGREVSLGNVIFVLTTNWVPEELKGSNVETLLRGEERMLESTSSSWQLELSIGDKQVKHRADWLCDDVRPAKLAKELSSSHGLSLDLNLAVGALDDTEGSHNSSDVSVEQEQEKGQLAVKRSTPAPGSDILELVDDAIVFRPVDFTPFRKTVTDCISAKFESVMGSSSSFRIDEDAVDWMVGSVWLTDEKIEDWAEKVLKPSIERLWHNVKHDSGRSIIRLTAVAAKALPRWGGGREGLPVAVTIAIDGM |
| 183 | sp|Q8L7L1|SPHK1\_ARATH | MDRQPERENDELPSPAIISDRVLVNGVVTPLTLTAEGELRSTESGRRKSTLAKEILSFVVEGNKVRVKTLVEKGGGICCRGSAGDYARNDFVFEPLSDESRKLWSDKFHQHLVSLGRPKKLLVFVNPFGGKKTARKIFQEEVKPLFEDANIQLEIQETKYQLHAKEIVRSMDVSKYDGIVCVSGDGILVEVVNGLLEREDWKTAIKLPIGMVPAGSGNGMIKSLLEPVGLPCSATSATISIIRGRTRSLDVATISQGTTKFFSVLMLAWGLVADIDIESEKFRWMGSARFDIYGLQRIICLRQYHGRILFVPAPGFESYGQRASCSIDKEPSGSDKTLVYQGPDSKLENLDWREMKGPFVSVWLHNVPWGAENTLAAPDAKFSDGFLDLIVMKDCPKLALLSLMTKLSDGTHVQSPYASYLKVKAFVLEPGARIDEPDKEGIIDSDGEVLARGRKSYKCDQKALMSYDKLQISVDQGLATLFSPE |
| 184 | sp|Q8X8H9|SRKA\_ECO57 | MNNSAFTFQTLHPDTIMDALFEQGIRVDSGLTPLNSYENRVYQFQDEDRRRFVVKFYRPERWTADQILEEHQFALQLVNDEVPVAAPVAFNGQTLLNHQGFYFAVFPSVGGRQFEADNIDQMEAVGRYLGRMHQTGRKQLFIHRPTIGLNEYLIEPRKLFEDATLIPSGLKAAFLKATDELIAAVTAHWREDFTVLRLHGDCHAGNILWRDGPMFVDLDDARNGPAIQDLWMLLNGDKAEQRMQLETIIEAYEEFSEFDTAEIGLIEPLRAMRLVYYLAWLMRRWADPAFPKNFPWLTGEDYWLRQTATFIEQAKVLQEPPLQLTPMY |
| 185 | sp|Q8VQ15|SODM\_STAEP | MAFELPKLPYAFDALEPHIDKETMEIHHDKHHNTYVTKLNAVVEGTDLEAKSIEEIVANLDSVPSDIQTAVRNNGGGHLNHSLFWELLTPNSEEKGEVVEKIKEQWGSLDEFKKEFADKAAARFGSGWAWLVVNNGQLEIVTTPNQDNPLTEGKTPILGLDVWEHAYYLKYQNKRPDYISAFWNVVNWEKVDELYNAAK |
| 186 | sp|A2XW02|STRK1\_ORYSI | MFTGCGLFACVRRCDGGDVRKRGEAGAMSSRVAADPAGVEEEGSCKNVAAASARQLAWADVESVTGGFSSRVIGHGGFSTVYLASLSSSRLGAVKVHCSSERLHRAFRQELEVLLSLRHPHIVRLLGYCDERDEGVLVFEYAPNGDLHERLHCSEVAGGVASVLPWARRVAIAFQVAMALEYLHESRHPAVIHGDIKASNVLLDANMNAKLCDFGFAHVGFSATVGCRPSARAVMGSPGYVDPHLIRSGVATKKSDVYSFGVLLLELVTGKEAVCRDTGRRLTAAVGPMLSEGKVADVVDRRLGGEHDGAEAAVMAELAMQCIGDSPGLRPSMADVVRALQEKTSALASAVGSRLDRKMMF |
| 187 | sp|Q7XT34|TPP5\_ORYSJ | MKISANFLLNNCARTYTKKKTLKKCKRELVEVVDGLVGVMMTSSNREKPDIESGYDGSSDEDSTENSRAEICPSALCFFDQIVASAQDKKVVLFLDYDGTLSPIVNDPEKAFMSSEMRATVKSVAKHFPTAIVSGRSRDKVFDFVKLTEIYYAGSHGMDILASFADSDSTIEKTKETKLFQPANEFLTMITEVSKSLIEVTKAIKGATVENNKFCVSVHYRNVDKKNWKLVAQVVNNVLKDFPSLKVSTGRKVLEVRPMINWDKGKAVEFLLRSLELDDSETVLPIYIGDDKTDEDAFKVLRERKNGCGILVSQVPKKSEAFFMLRGPSEVVILPVMLNFFAALLIMPS |
| 188 | sp|O94504|TRX2\_SCHPO | MRGFIANSLKPHMRSFALRRSFTSSRILRKVNAVESFGDYNTRISADKVTVVDFYADWCGPCKYLKPFLEKLSEQNQKASFIAVNADKFSDIAQKNGVYALPTMVLFRKGQELDRIVGADVKTLSSLLAKYQE |
| 189 | sp|P76214|VES\_ECOLI | MEYFDMRKMSVNLWRNAAGETREICTFPPAKRDFYWRASIASIAANGEFSLFPGMERIVTLLEGGEMLLESADRFNHTLKPFQPFAFAADQVVKAKLTAGQMSMDFNIMTRLDVCKAKVRIAERTFTTFGSRGGVVFVINGAWQLGDKLLTTDQGACWFDGRHTLRLLQPQGKLLFSEINWLAGHSPDQVQ |
| 190 | sp|Q5PJ71|YTFE\_SALPA | MAYRDQPLGELALSIPRASALFRQYDMDYCCGGKQTLARAAARHDVDIDIIEAQLAQLAEQPIEKDWRAVPLADIIDHIVVRYHDRHREQLPELILQATKVERVHADKPNVPRGLTKYLTALHEELSSHMMKEEQILFPMIKQGMGRQATGPISVMESEHDEAGELVDVIKHVTQNVTPPPEACTTWKAMYNGINEMIDDLMEHISLENNVLFPRALAGE |
| 191 | sp|B5BKL8|YTFE\_SALPK | MAYRDQPLGELALSIPRASALFRQYDMDYCCGGKQTLARAAARHDVDIDIIEAQLAQLAEQPIEKDWRAVPLADIIDHIVVRYHDRHREQLPELILQATKVERVHADKPNVPRGLTKYLTALHEELSSHMMKEEQILFPMIKQGMGRQATGPISVMESEHDEAGELVDVIKHVTQNVTPPPEACTTWKAMYNGINEMIDDLMEHISLENNVLFPRALAGE |
| 192 | sp|B5R0S8|YTFE\_SALEP | MAYRDQPLGELALSIPRASALFRQYDMDYCCGGKQTLARAAARHDVDIDIIEAQLAQLAEQPIEKDWRAVPLADIIDHIVVRYHDRHREQLPELILQATKVERVHADKPNVPRGLTKYLTALHEELSSHMMKEEQILFPMIKQGMGRQATGPISVMESEHDEAGELVDVIKHVTQNVTPPPEACTTWKAMYNGINEMIDDLMEHISLENNVLFPRALAGE |
| 193 | sp|Q5A872|SLN1\_CANAL | MRRLKIGIRPQLIIIVCFASLFSLLILGIVTGIYFSANLKNLRLERLLVISQLKRTQVQQAIQYIAYQVMTVSEVDSLTVPLSNYRAGNNSKAVFSEAQNYLQQYVLTTDSFTAARLYDLDLQVVASSFDNMTLISESAQDVVYPLQPNRSMPPVLGTPSGLYFTGPIANNSDNFNSRYFMGITVPVLSNSSIILSQPSISGYLTIVAAAESIRSALNSTSEDDYQAMAVQPVYGDPQKGIDNLSQNAYNGDNEVIGFKLVFPVENSLLEAGTIYNINSSSSMKTALASNSGTATGVKSFFGKKVAIGFSRISVQDNLNWSIVIVQSNSVFNGPANKLRKITIGVVIGIGAFMCFVTFPLAVWFIRPITKLKEATEAITKYKKEKLNSVNSNSPTSGSGSGSGSGSGSRANSDSSADQSLSLDTGKRNSINSSSFSSSYSTGIRLPARIPRSKKIFKDELTELSEAFNIMTEELDKQYTHLEDRVKLRTKELEASKIQAEAANEAKTVFIANISHELRTPLNGILGMTSIAMEEEDPNVIHDSLKLIHRSGELLLHILTELLTYSKNTLNRSKLEKSNFQILEIVYQVRSIFNKLAHDQRVNFKILVKPNIFRKLIIYGDSNRIIQIVMNLVSNSLKFTPVDGSVSVSFKLLGEYDHERSKKLDYKKVCILNDSSSSTVAVPPPTPPSDTKPNPKPKSTPTPKPDPTRSHLVDHNNRSANTTSPLTPVRKPTNQTKNKSITNNVTKQNMKIRKKKKTNKNLHNNNNNNKNDNSDFLMNRRLSGSHKFNNTNDEELSPTAIEKNIDKYLTSSADSDNISVTTLSTVQYETTIFESQFKSKPLPALPVDAKPQVSGKIDENDVNDEDPSGGSIKDDDSEDTINEKQGISSSPSSSSSSNEKQENSPRSNDSTTVTVTRPRHNMMPSAQDFKSYPTFDKKPEYDSNMSNNEIVKNNRVYRIRNMYQPKVWVIQIEVTDTGPGIEPALQEKVFEPFVQGDQTLSRSYGGTGLGLSICRQLATMMHGTLTLKSTIGKGSTFTLTLPLPQTGEIMVPPEDMAEFCEDEFNPAAKINRKVAFEDGDIDTESQQQENPSSEEDTQGDRNVQSSTSSSPPNSSSTDSALPASDSSDIGGTNKSKTTSHGNNKNINAKKRIITNSSASSTKGTKRHTNNDGGGGVNGNHSDDNKDLTLTIDKPSLFTRGSTGTANSGTTSSHSDKKILYPTPTTTTTTTTTTDHTTVLDDISHLRVLVAEDNSVNQEVISRMLKQEGITNLTMACNGAKAIDFVKESIENNENFDLIFMDVQMPEVDGLKATKMIRKNLQYNKPIIALTAFADESNVKECLNSGMSGFITKPISKTNIKKVLVEFLSNEVVTS |
| 194 | sp|O25985|SSRP\_HELPY | MKLIASNKKAYFDYEILETLEAGLALLGSEVKALRQTRVNLKDNFVKIIKGEAFLFGVHISYLDTIHAYYKPNERRERKLLLHKKQLLKWQIEASKERLSIVGLKLYFNQRNRAKIQIALVKGKRLHDKRQSLKEKALNKEILADLKHHFKG |
| 195 | sp|P52752|SSGA\_METAN | MFKALIVALAAVAAAIPTQQPSSNEMNCDSGVYCCNKVAQNTGIVVPIDALSSTCGDTLKLVTVDALNDKCTSQTVCCNNVQQNGLVNVACTPIDV |
| 196 | sp|Q01903|SUBI\_SYNY3 | MARSAFGWGFSVIAVLMVGSITACNTTTTTEPGQGENASQAPANLTLVSYAVTRDAFEKIIPKFTEEWKSKTGQDVTFEQSYGGSGSQTRAVVDGLEADIVALALSSDVQKIESAGLIQPGWEQEAPNGSIVTNSVIAFVTKASDNIKVEKWADLANPEVKVITANPKTSGGARWNFLGIWGSVTKTGGTEEQAFDFAGKVLANAPVLPKDARESTDVFYKQGQGNVLLNYENEVLLAKQKGENQPYIIPQDFNVSISGPVAVVDTTVDKKGTREVRDAFVQYLFTPEAQQIFAETGFRPVNEEVLAKFASQYPKVENLATIEEFGGWKKAQAEFFDEGGIFDKVITKIGRQ |
| 197 | sp|F4JVN6|TPPII\_ARATH | MDLSLQLQIHGALINKGPSCTSYWASSSSLSLPRDFISSSTFLLHRRLRRRSCSRSRGIRLRRSGFSAMPCSSSDTLTASRVGCGGGGGGGAVGGGAENASVANFKLNESTFIASLMPKKEIRADCFIEAHPEYDGRGVVIAIFDSGFDPSAAGLHVTSDGKPKVLDVIDCTGSGDIDTSTVVKANEDGHIRGASGATLVVNSSWKNPTGEWRVGSKLVYQLFTDDLTSRVKKERRKSWDEKNQEEIAKAVNNLYDFDQKHSKVEDAKLKKTREDLQSKVDFLKKQADKYEDKGPVIDAVVWHDGEVWRVALDTQSLEEDPDSGKLADFSPLTNYRIERKYGVFSRLDACSFVANVYDEGKVLSIVTDSSPHGTHVAGIATAHHPEEHLLNGVAPGAQIISCKIGDSRLGSMETGTGLTRALIAALEHNCDLVNMSYGEPALLPDYGRFVDLVTEAVNKRRLIFVSSAGNSGPALTTVGAPGGTTSSIIGVGAYVSPAMAAGAHSVVEPPSEGLEYTWSSRGPTSDGDLGVCISAPGGAVAPVPTWTLQRRMLMNGTSMASPSACGAIALLLSAMKAEGIPVSPYSVRRALENTSTPVGDLPEDKLTTGQGLMQVDKAYEYLKQFQDYPCVFYQIKVNLSGKTIPTSRGIYLREGTACRQSTEWTIQVDPKFHEGASNLKELVPFEECLELHSTDEGVVRVPDYLLLTNNGRGFNVVVDPTNLGDGVHYFEVYGIDCKAPERGPLFRIPVTIIIPKTVANQPPVISFQQMSFISGHIERRYIEVPHGATWAEATMRTSGFDTTRRFYIDTLQVCPLRRPIKWESAPTFASPSAKSFVFPVVSGQTMELAIAQFWSSGLGSREPTIVDFEIEFHGVGVDKEELLLDGSEAPIKVEAEALLASEKLVPIAVLNKIRVPYQPIDAQLKTLSTGRDRLLSGKQILALTLTYKFKLEDSAEVKPYIPLLNNRIYDTKFESQFFMISDTNKRVYAMGDVYPESSKLPKGEYKLQLYLRHENVELLEKLKQLTVFIERNMGEIRLNLHSEPDGPFTGNGAFKSSVLMPGVKEAFYLGPPTKDKLPKNTPQGSMLVGEISYGKLSFDEKEGKNPKDNPVSYPISYVVPPNKPEEDKKAASAPTCSKSVSERLEQEVRDTKIKFLGNLKQETEEERSEWRKLCTCLKSEYPDYTPLLAKILEGLLSRSDAGDKISHHEEIIEAANEVVRSVDVDELARFLLDKTEPEDDEAEKLKKKMEVTRDQLADALYQKGLAMARIENLKGEKEGEGEEESSQKDKFEENFKELTKWVDVKSSKYGTLTVLREKRLSRLGTALKVLDDLIQNENETANKKLYELKLDLLEEIGWSHLVTYEKQWMQVRFPKSLPLF |
| 198 | sp|A8MRY9|UGNT1\_ARATH | MRNNPVLPVSDPPLAGENDSDGKGVDDRLFKGSAMTKRGAYAALSYMACAVMLVLFNKAALSSYDFPCVNVITLFQMVSSSLFLYALRRRKIISFTAADSFSIDSASTFVPVKTLFHTLPLAIAYLLYMLASMASVRGVNVPMYTTLRRTTVAFTMVIEYMLTGQRYTRSIIGSVGIILLGAFFAGARDLSFDFYGYGVVFLANISTAVYLATIARTGKSSGLNSFGLMWSNGIICGPILMIWTFICGDLEKTINFPHLLTPGFMVVLLCSCVLAFVLNYCIFLNTTLNSALTQTICGNMKDLFTVGLGWMLFGGLPFDLMNVIGQLFGFFGSGLYAYYKIIGR |
| 199 | sp|Q57GI1|YTFE\_SALCH | MAYRDQPLGELALSIPRASALFRQYDMDYCCGGKQTLARAATRHDVDIDIIEAQLAQLAEQPIEKDWRAVPLADIIDHIVVRYHDRHREQLPELILQATKVERVHADKPNVPRGLTKYLTALHEELSSHMMKEEQILFPMIKQGMGRQATGPISVMESEHDEAGELVDVIKHVTQNVTPPPEACTTWKAMYNGINEMIDDLMEHISLENNVLFPRALAGE |
| 200 | sp|Q66F95|YTFE\_YERPS | MDYRNQSLGALAIAIPRATKLFRQHQLDFCCGGKQTLLRAANKLNLDIDALEAQLSALQTEPHSSEDWQQQPLTNLISFIISRYHDRHREQLPELVLMAEKVERVHGDKPTCPRGLAAELSAILEELTQHMYKEEQILFPMIQRGMGSQASGPIFVMEAEHDAVGQQLDVVKQLTQNVTPPEGACNTWRALYTGINEFITDLMEHIHLENNLLFPRALRGE |
| 201 | sp|Q7Y1W9|SAP9\_ORYSJ | MAQESWKNESEETVHTPEAPILCVNNCGFFGSSMTNNMCSKCYRDFVKVTTMAAPVVEKKAFTPASSSKTPLEPAKPDEVPAAAVEDKQAAQEPPKPPSNRCLSCRKKVGLTGFQCRCGGTFCSTHRYTEAHDCTFDYKKAGRDQIAKQNPVVIAEKINKI |
| 202 | sp|A8GG82|SBMC\_SERP5 | MTVRIEDKSAERVVGVRVVGPYPQTIPQGCQRLMAWQQQHQVPLGKWLVLYWDDPAEVAPERLRADVVFTVADDFVLPTSGSEGFALQTLPAGQYAIYNVRVSDGDFERVWGDFYQRELPASGYQPVEGVSYEHYLNDCEADGYFDLDIYQTVKKG |
| 203 | sp|C7Z504|SHO1\_NECH7 | MYGGRKGIQMSNILGDPFALATLSIAMLAWCITFVACIIGRIQQTNDSPFPTFAWWGCIYSLCLIVGVFVVIGSDSVHTYHVAVTGYLAAGIVLVSSGVNLLLYSDSGAREAASAGFILLAMVIVIWTFYFGSNPSSTPRAFLDSFALAKESTTIHRSTMNGYGGGGRPETSNSVQPPQMYTSAQLNGFENPSPVGGVSQVGGRGSAVPQSFTNSVMQPKATNSPGADAEVVPPTEYPYRAKAIYSYEANPDDANEISFSKHEILEVSDVSGRWWQARKENGETGIAPSNYLILL |
| 204 | sp|P17861|XBP1\_HUMAN | MVVVAAAPNPADGTPKVLLLSGQPASAAGAPAGQALPLMVPAQRGASPEAASGGLPQARKRQRLTHLSPEEKALRRKLKNRVAAQTARDRKKARMSELEQQVVDLEEENQKLLLENQLLREKTHGLVVENQELRQRLGMDALVAEEEAEAKGNEVRPVAGSAESAALRLRAPLQQVQAQLSPLQNISPWILAVLTLQIQSLISCWAFWTTWTQSCSSNALPQSLPAWRSSQRSTQKDPVPYQPPFLCQWGRHQPSWKPLMN |
| 205 | sp|A0A0H3CC29|Y3000\_CAUVN | MTLQPFDGFGLGLRPPHYRAFLDSERPLVDFVEVISENFMVGGGRPLHVIDAVRERYPVALHGVSMSVGSADGVKLDYLRRLKGLADRVDPMWVSDHLCWTGVEGFNSHDLLPVPYTEEAMAVVCANIALAQDVLERPLLLENPSSYVTFANDAMAEHQFLAEMCARTGCYLLLDINNIYVSASNHGFDPYEYLAAVPVDRVLQIHLAGHSQGRELLIDTHDQPVPDSVWALYEAAAGRFGPVAAMIERDDDIPPLDDLLAELDVARARWAAGRRGSLAA |
| 206 | sp|P0A8I3|YAAA\_ECOLI | MLILISPAKTLDYQSPLTTTRYTLPELLDNSQQLIHEARKLTPPQISTLMRISDKLAGINAARFHDWQPDFTPANARQAILAFKGDVYTGLQAETFSEDDFDFAQQHLRMLSGLYGVLRPLDLMQPYRLEMGIRLENARGKDLYQFWGDIITNKLNEALAAQGDNVVINLASDEYFKSVKPKKLNAEIIKPVFLDEKNGKFKIISFYAKKARGLMSRFIIENRLTKPEQLTGFNSEGYFFDEDSSSNGELVFKRYEQR |
| 207 | sp|Q5A4X5|SKN7\_CANAL | MSSLQQPIPPNSTLATTASSNQSGSNDFVKKLFLMLQEDSYKEVVRWTVKGDSFVVINTNEFTKDILPKHFKHSNFASFVRQLNKYDFHKVKISNEAKASYPYGEDAWEFKHPEFRINDAEALENIKRKGPTAKKSASNVTIKTEANNNGTQPTCNHNYSQLVSATNHLKEQVESLKNDKHSLYQEISVLERKYKTVVENIVAINTFNERYYRSMNVLINSIVQNGMKLPPLDFPPPVQLGPDSGIGSNLGPISSDTALPSISHHLSSPLPHHQQLLNRTIRPISSPIDGIPLVKLQQQSLGQNLQAPIGTPSAVPFSEEASSSIQAATPAPLAQPVAQPINQPPPPPPPPATQQQPLPPPPPPATATSQIPSAPPPPTQQQVGTSSSSVPTISPKSQGIVVSNSASPTTSAQISTTSVPNPKFHVLLVEDDNVCIQLCRKFLVKYGCSVTVVTDGLNAISTVEHTKYDLVLMDIVMPNLDGATATSVIRSFDTKTPIIAMTGNIEDNDLVTYLQNGMSDILAKPFTKDDLYAILSKHLLDPKENKQDNEPTVKKQKLS |
| 208 | sp|P36631|STE11\_SCHPO | MSASLTAEQKDQKSSVKRPLNSFMLYRRDRQAEIPTSNHQSISRIIGQLWRNESAQVKKYYSDLSALERQKHMLENPEYKYTPKKRSTVRRRHKKVSPSSGSFVASDYVVLQQIAQSSKTLKQTEPEKPVNEEETLAALLAPALSYPKSGKSNLIETSELSCLSSSPMIRSHTIPSLSFTDQVSTTISTLDKSEQAPSSLGIYYRSPSSGSPIGRTKSVCLANKARIVPKRSMSSDGCVDKSYQMSKTPSLEANLPQNSSNCSARRVPKFDSKGTVSEQSNSDSPELSADKVLSHCSPIDARPSTPSCPNASISPKTPNTGDHYGFDGAEYLGTPLSVGSTTAYLYGQETELLSTPYCHTSYPAMSRLNSSSGYTCVSSSSVTNSGHTENNTWRSDEQSKGFVDINSFSQSLFSNGNYEFAAHSQELDDLFSQITDFTSTDPIASSLKDANSLGPSLLEPWLPNSNLF |
| 209 | sp|Q92410|TPS1\_CANAL | MVQGKVLVVSNRIPVTIKRLDNGSYDYSMSSGGLVTALQGLKKTTEFQWYGWPGLEIPEDEQTKVNDELKSKFNCTAIFLSDTIADLHYNGFSNSILWPLFHYHPGEMNFDENAWAAYIEANKKFALEIVKQVNDDDMIWVHDYHLMLLPEMLRQEIGNKKKNIKIGFFLHTPFPSSEIYRILPVRKEILEGVLSCDLIGFHTYDYARHFISSVSRIVPNVSTLPNGIKYQGRSISIGAFPIGIDVDNFIDGLKKDSVVERIKQLKSKFKDVKVIVGVDRLDYIKGVPQKLHAFEVFLNENPEWIGKVVLVQVAVPSRGDVEEYQSLRSTVSELVGRINGEFGTVEFVPIHYLHKSIPFDELISLYNISDVCLVSSTRDGMNLVSYEYIACQQDRKGVLILSEFAGAAQSLNGALIVNPWNTEDLSEAIKESLTLPEEKREFNFKKLFTYISKYTSGFWGESFVKELYKCNPQKSLRD |
| 210 | sp|O32270|TUAE\_BACSU | MSIKRSAVHTLALLAAAIFGVVLLLGAIHKDIGFMQMAAVLAVLAIGLFLLTLATAFTTKERLFMAVIYILIACTFLNNAFFAIHLGFFSLFLYRLLLIAAGCLHIFGMVRNRTHIERWHGLQVKGILLFFAFWFIYGLVSLLWAKSVTVGLKYLALLAMGIFFIYLIVMYVQKMERLMIVYAIWLVMTVFLMIIGFYNHITHHHLASSTLYSGPEYKQHYPTSVFFNQNDFATFLSISFFFYITMMKNIKNGYIKAIGLVLSLCALYLIFATGSRASLLGIFAGIAVYIFIVLPPVLKRMAIWLSAAGIALFAVLFASKIYSKFWELFLAPQTLHSFHDRLPSNVARANLLKNAWHFFLDSYGFGVGAGNVSYYLEHYAVYDTDNVAEVHNWLVEILANFGLFIMLGYLSVYAYLIWVLYKFYERKLENQSKLITEGLITAMVSFLVSSISPSSVSNLFFHWVFMALVIAAVNVLRRSRQMPEPMYR |
| 211 | sp|P43074|WHS11\_CANAW | MSDLGRKDIGDKIESKLTPDSQKSTPEQFKDKVTDSLDSAAGKATSENDKSFVQKASDAIFGDSK |
| 212 | sp|O74782|YGBA\_SCHPO | MSESAPAGSKEGVSFGNLPRPEPRTSKDQQKLSISTDVKKPSHSAPVTPVRSARSSMEQPTFRPVAKNSVTVAPARAAGFCPPQFEEYHHGRSHSLVSPPPSPHFLKRISFDTFNNKAATDFSLTLKTQHQAYKWTRTSRTFLCGMDGNSYSEVAVDWLFETLLADNDEAVVLRVIDPSSKLAEDLSDEQSYRSLAEHIMAGILKKVDDDKAVSIIVELVVGKPQDMILRTIHVYSPDSLIVGTRGKALNSFQSLLSSGSVSKFCLQKSPIPVIVVRPDRKRVRSKNKRLKDKTRKSYMEILEKSGR |
| 213 | sp|O13997|YIH1\_SCHPO | MENNEEFQDELLALESIYPSCLLPISEQSFTYTLSIPDSSVRLNIQFPLDYPNSAPTVLDAYGIDKTLAEDVLLSVATGDVCIFSYMDLLKELVDIDAEQAAAERESKLQEESDKETPVMLNKSHYVAKTPEIQDEPWKPKFDWKESEPITDRKSTFMAHATRVYSTEEVREALEDLYMDKKVAKANHNMVAYRIISPNGNVIQDNDDDGESAAGSRMSHLLTMMSAENVFVCVSRWFGGVHIGPDRFKHINSSAREAVLLTDAAPSQKKGTEHGKKKKK |
| 214 | sp|P45742|YHBH\_BACSU | MSQNDSGHFLISEENWSLHRKGFDDQQRHQKKVQEAIKNNLPDLVTEESIIMSNGKDVVKIPIRSLDEYKIRYNYDKNKHVGQGDGESQVGDVVARDGSDKKQGPGKGQGAGDQAGEDYYEAEVSLMDLEEALFKELELPNLQQKERDNIIHTDIEFNDIRKTGLTGNIDKKRTMMSAFKRNAMSGKPSFYPIYPEDLKYKTWNDITKPESKAVVLAMMDTSGSMGVWEKYMARSFFFWMTRFLRTKYETVEIEFIAHHTEARVVSEEDFFSKGESGGTICSSVYRKSLELIDEKYNPARYNIYPFHFSDGDNLTSDNARCVKLVNDIMKKANLFCYGEVNQYNRHSTLMSAYKNVKDEKFKYYILKQKSDVFQALKNFFRNEESGVSHQFS |
| 215 | sp|A4TRL8|YTFE\_YERPP | MDYRNQSLGALAIAIPRATKLFRQHQLDFCCGGKQTLLRAANKLNLDIDALEAQLSALQTEPHSSEDWQQQPLTNLISFIISRYHDRHREQLPELVLMAEKVERVHGEKPTCPRGLAAELSAILEELTQHMYKEEQILFPMIQRGMGSQASGPIFVMEAEHDAVGQQLDVVKQLTQNVTPPEGACNTWRALYTGINEFITDLMEHIHLENNLLFPRALRGE |
| 216 | sp|C1P613|YQEL\_ECOLI | MKDVDQIFDALDCHILREYLILLFYD |
| 217 | sp|Q9SB52|PUMP4\_ARATH | MGVKSFVEGGIASVIAGCSTHPLDLIKVRLQLHGEAPSTTTVTLLRPALAFPNSSPAAFLETTSSVPKVGPISLGINIVKSEGAAALFSGVSATLLRQTLYSTTRMGLYEVLKNKWTDPESGKLNLSRKIGAGLVAGGIGAAVGNPADVAMVRMQADGRLPLAQRRNYAGVGDAIRSMVKGEGVTSLWRGSALTINRAMIVTAAQLASYDQFKEGILENGVMNDGLGTHVVASFAAGFVASVASNPVDVIKTRVMNMKVGAYDGAWDCAVKTVKAEGAMALYKGFVPTVCRQGPFTVVLFVTLEQVRKLLRDF |
| 218 | sp|Q8KA76|RPOH\_BUCAP | MTNKVQILSVTALGNLDAYIRIANLWPMLSIKEEKLLTKRLRYHDDLDAAKTLILSHLRFVIHISRNYSGYGLLQADLIQEGNIGLMKAVRRFNPDIGVRLVSFAVHWIKSEIHEYVLRNWRIVKVATTKSQRKLFFNLRKNKKRLGWFNQEEIEIVARELGVSSEDVREMESRMSAQDITFNPFPEEDLKDGKINGNMFYLQDKTSNFANGLEQDNWNKHTTSKLSNALLRLDERSRNIIRARWLDKKEKNTLQKIANNYGISAERVRQLEKNAMKKLKIAIEN |
| 219 | sp|Q852K8|SAP14\_ORYSJ | MATKRKCPANGDDGGVADLEPVAGGSFASPPPEKKAKLTVAVAVAVAPSSSSSATTAAAGEATAKREHGGFFAFARPENNTRLSVAVASSSSSASAAAEKAMAKLTVAGVAPSSSASAAAAGKATAKREYGGFCAFARPDDKTRWRVAVASSAAAAADASYSSSSPATGEQPEANRCATCRRKVGLTGFKCRCGGTFCGGHRYADEHGCGFDYKSSGRELIAKQNPVVVADKLAFRI |
| 220 | sp|Q0THS6|SAFA\_ECOL5 | MHATTVKNKITQRDNYKEIMSVIVVVLLLTLTLIAIFSAIDQLGISEMGRIARDLTHFIINSLQD |
| 221 | sp|K4PW38|RSS3\_ORYSJ | MVGSGAAGGGGGGGGGGDHARSKEAAGMMALHEALRNVCLNSDWTYSVFWTIRPRPRCRGGNGCKVGDDNGSLMLMWEDGFCRPRVAECLEDIDGEDPVRKAFSKMSIQLYNYGEGLMGKVASDKCHKWVFKEPSECEPNIANYWQSSFDALPPEWTDQFASGIQTIAVIQAGHGLLQLGSCKIIPEDLHFVLRMRHMFESLGYQSGFFLSQLFSSSRGTSPSPSSFPLKQQQPPPPQLFNWPGHAPPQLPPGASPLFPPGPAAFHPSSRPMPPFPGGGKDESHLFHLPPAAAAKQPQHMDEHHHHQQQPMAAPQQHGGEAPEGDLKWPNGLSFFTALTGRTEDAKFLFGGGGGGGADDGSKTAAAAQDAGHGGAENVEEYLSLESHSNKARRMESAQSTKFKRSFTLPARMSSSTTSTSPSVSASTAPAPPQQQQGMEYRGPHEGGVYSDLMETFLE |
| 222 | sp|P9WGH9|SIGH\_MYCTU | MADIDGVTGSAGLQPGPSEETDEELTARFERDAIPLLDQLYGGALRMTRNPADAEDLLQETMVKAYAGFRSFRHGTNLKAWLYRILTNTYINSYRKKQRQPAEYPTEQITDWQLASNAEHSSTGLRSAEVEALEALPDTEIKEALQALPEEFRMAVYYADVEGFPYKEIAEIMDTPIGTVMSRLHRGRRQLRGLLADVARDRGFARGEQAHEGVSS |
| 223 | sp|C4JLG3|SHO1\_UNCRE | MPRIRLDNLFGDPFALASVSISLLAWLIAFVSAIISSIRDSFPPIYWWNLVYMFLCIVGIAYVMATATTHIYSTAVVGYVSAGFAFTTFAADGLLKKQSGSNEAAGAGFILLSIVNVVWIFYFGSSPQSRSRHYIDSFAMHKEQPSYLNPSQMSNHYNNRPDTTVSTQPPQMYTSAQLNGFETSSPYGAPPGPSGASGIGNSQVNLAGTSSNGEAPNEVSPPTEYPYKAKAIYAYEANPDDANEISFTKNEILEVSDVSGRWWQAKKATGETGIAPSNYLILL |
| 224 | sp|E7LTJ6|SHO1\_YEASV | MSISSKIRPTPRKPSRMATDHSFKMKNFYADPFAISSISLAIVSWVIAIGGSISSASTNESFPRFTWWGIVYQFLIICSLMLFYCFDLVDHYRIFITTSIAVAFVYNTNSATNLVYADGPKKAAASAGVILLSIINLIWILYYGGDNASPTNRWIDSFSIKGIRPSPLENSLHRARRRGNRNTTPYQNNVYNDAIRDSGYATQFDGYPQQQPSHTNYVSSTALAGFENTQPNTSEAVNLHLNTLQQRINSASNAKETNDNSNNQTNTNIGNTFDTDFSNGNTETTMGDTLGLYSDIGDDNFIYKAKALYPYDADDDDAYEISFEQNEILQVSDIEGRWWKARRANGETGIIPSNYVQLIDGPEEMHR |
| 225 | sp|P0A0J3|SODM1\_STAA8 | MAFELPKLPYAFDALEPHFDKETMEIHHDRHHNTYVTKLNAAVEGTDLESKSIEEIVANLDSVPANIQTAVRNNGGGHLNHSLFWELLSPNSEEKGTVVEKIKEQWGSLEEFKKEFADKAAARFGSGWAWLVVNNGQLEIVTTPNQDNPLTEGKTPILGLDVWEHAYYLKYQNKRPDYIGAFWNVVNWEKVDELYNATK |
| 226 | sp|Q67X99|TPPE\_ARATH | MVRFIEENITKMLETKAISNSEVLYVGGDDGDTSPTTKVLHDFQINSGGGLIRSWVDSMRACSPTRPKSFNSQSCWIKEHPSALNMFEEILHKSEGKQIVMFLDYDGTLSPIVDDPDRAFMSKKMRNTVRKLAKCFPTAIVSGRCREKVSSFVKLTELYYAGSHGMDIKGPEQGSKYKKENQSLLCQPATEFLPVINEVYKKLVENTQSIPGAKVENNKFCASVHFRCVEENKWSDLAHQVRSVLKNYPKLMLTQGRKVLEIRPIIKWDKGKALEFLLESLGYDNCTDVFPIYIGDDRTDEDAFKILRDKKQGLGILVSKYAKETNASYSLQEPDEVMVFLERLVEWKQSRCGA |
| 227 | sp|A2XD78|TI11A\_ORYSI | MASTDPMTRRFAVACGVLSQYVKANSSQPSTAAPVAQGVSGLMAAAAAAAAAPVVQEPGCEVDGGGQQFTIFYAGKVVVIDRCTPAMAAELMRFASAAQGGGGAPEAPPALVDMPIARKASLKRFLAKRKATPASARSSYVVRAAAAEEEQPPAKKAKADVERREDWLALGSLGHMHSR |
| 228 | sp|Q5BFM4|Y0656\_EMENI | MTNQTIQEALGHGQGNDLGNSDGHRIEYVETIEAYNKWAEVYDTDGNFLQALDTFEMKDLLPRFLCLVQTQTNGKSNMTPGEQVLKLVDLGCGTGRNTLQLAKSAPKEAQIIGLDASPGMLEVAEGNLKAQGVMGTVDERRVVLGVYDLLSPRPESLPVSLRGEARASGAISTLVLEHIPLDKFFEGAARLIRPGGYLLVTNMHAEMGAISQAGFVDVTSGKKIRPTSYAHEVGNVIAAAERAGFEIVPLNGAEKVRERRVNEEMVALLGSRARKWVNVVVWFGLS |
| 229 | sp|O22921|WRK25\_ARATH | MSSTSFTDLLGSSGVDCYEDDEDLRVSGSSFGGYYPERTGSGLPKFKTAQPPPLPISQSSHNFTFSDYLDSPLLLSSSHSLISPTTGTFPLQGFNGTTNNHSDFPWQLQSQPSNASSALQETYGVQDHEKKQEMIPNEIATQNNNQSFGTERQIKIPAYMVSRNSNDGYGWRKYGQKQVKKSENPRSYFKCTYPDCVSKKIVETASDGQITEIIYKGGHNHPKPEFTKRPSQSSLPSSVNGRRLFNPASVVSEPHDQSENSSISFDYSDLEQKSFKSEYGEIDEEEEQPEMKRMKREGEDEGMSIEVSKGVKEPRVVVQTISDIDVLIDGFRWRKYGQKVVKGNTNPRSYYKCTFQGCGVKKQVERSAADERAVLTTYEGRHNHDIPTALRRS |
| 230 | sp|Q8S8P5|WRK33\_ARATH | MAASFLTMDNSRTRQNMNGSANWSQQSGRTSTSSLEDLEIPKFRSFAPSSISISPSLVSPSTCFSPSLFLDSPAFVSSSANVLASPTTGALITNVTNQKGINEGDKSNNNNFNLFDFSFHTQSSGVSAPTTTTTTTTTTTTTNSSIFQSQEQQKKNQSEQWSQTETRPNNQAVSYNGREQRKGEDGYNWRKYGQKQVKGSENPRSYYKCTFPNCPTKKKVERSLEGQITEIVYKGSHNHPKPQSTRRSSSSSSTFHSAVYNASLDHNRQASSDQPNSNNSFHQSDSFGMQQEDNTTSDSVGDDEFEQGSSIVSRDEEDCGSEPEAKRWKGDNETNGGNGGGSKTVREPRIVVQTTSDIDILDDGYRWRKYGQKVVKGNPNPRSYYKCTTIGCPVRKHVERASHDMRAVITTYEGKHNHDVPAARGSGYATNRAPQDSSSVPIRPAAIAGHSNYTTSSQAPYTLQMLHNNNTNTGPFGYAMNNNNNNSNLQTQQNFVGGGFSRAKEEPNEETSFFDSFMP |
| 231 | sp|P55880|YAJL\_SALTY | MSAQALVCLAPGSEETEAVTTIDLLVRGGIHVTTASVASDGNLTIVCSRGVKLLADAPLVEVADGDYDIIVLPGGIKGAECFRDSPLLVETVKQFHRSGRIVAAICAAAATVLVPHDIFPIGNMTGFPALKDKIPAEQWLDKRVVWDARVKLLTSQGPGTAIDFGLKIIDLLAGREKAHEVASQLVMAAGIYNYYE |
| 232 | sp|Q46835|YGHG\_ECOLI | MSIKQMPGRVLISLLLSVTGLLSGCASHNENASLLAKKQAQNISQNLPIKSAGYTLVLAQSSGTTVKMTIISEAGTQTTQTPDAFLTSYQRQMCADPTVKLMITEGINYSITINDTRTGNQYQRKLDRTTCGIVKA |
| 233 | sp|Q99326|YO338\_YEAST | MLDNMQFHSPAPEHPQLNGGINKIPASHKIGYKLNQQVQRLAVVRNNIEERLNSMESSHGQISDSSVVRAIDASIDDFLIPSPPLSPKLRQCPIISQPQLVNVESDHRELIMLTPVWEAGLNSQKYNHNTRNFLSQYSFFRDMKTTKRIPNKENRKLKVVKSVVNSEALPKRRRYDRKIKRRSRELYEDDGNRSENYDEESAQEVPVRSVTPIRQVKRSLHTISSPLASQGVVNNVPKYIPSMSWEKLPDYSPPLHTLPNSNNKVLKVEWKGSPMDLNHDPLKQRLHPAELVLAQILRLPCDLYLDSKRRFFLEKVHRFKKGLPFRRTDAQKACRIDVNKASRLFAAFEKVGWLQDKHFEKYL |
| 234 | sp|P0AD52|YFIA\_SHIFL | MTMNITSKQMEITPAIRQHVADRLAKLEKWQTHLINPHIILSKEPQGFVADATINTPNGVLVASGKHEDMYTAINELINKLERQLNKLQHKGEARRAATSVKDANFVEEVEEE |
| 235 | sp|B2K2M0|YTFE\_YERPB | MDYRNQSLGALAIAIPQATKLFRQHQLDFCCGGKQTLLRAANKLNLDIDALEAQLSALQTEPHSSEDWQQQPLTNLISFIISRYHDRHREQLPELVLMAEKVERVHGEKPTCPRGLAAELSAILEELTQHMYKEEQILFPMIQRGMGSQASGPIFVMEAEHDAVGQQLEVVKQLTQNVTPPEGACNTWRALYTGINEFITDLMEHIHLENNLLFPRALRGE |
| 236 | sp|Q5D1E8|ZC12A\_HUMAN | MSGPCGEKPVLEASPTMSLWEFEDSHSRQGTPRPGQELAAEEASALELQMKVDFFRKLGYSSTEIHSVLQKLGVQADTNTVLGELVKHGTATERERQTSPDPCPQLPLVPRGGGTPKAPNLEPPLPEEEKEGSDLRPVVIDGSNVAMSHGNKEVFSCRGILLAVNWFLERGHTDITVFVPSWRKEQPRPDVPITDQHILRELEKKKILVFTPSRRVGGKRVVCYDDRFIVKLAYESDGIVVSNDTYRDLQGERQEWKRFIEERLLMYSFVNDKFMPPDDPLGRHGPSLDNFLRKKPLTLEHRKQPCPYGRKCTYGIKCRFFHPERPSCPQRSVADELRANALLSPPRAPSKDKNGRRPSPSSQSSSLLTESEQCSLDGKKLGAQASPGSRQEGLTQTYAPSGRSLAPSGGSGSSFGPTDWLPQTLDSLPYVSQDCLDSGIGSLESQMSELWGVRGGGPGEPGPPRAPYTGYSPYGSELPATAAFSAFGRAMGAGHFSVPADYPPAPPAFPPREYWSEPYPLPPPTSVLQEPPVQSPGAGRSPWGRAGSLAKEQASVYTKLCGVFPPHLVEAVMGRFPQLLDPQQLAAEILSYKSQHPSE |
| 237 | sp|P36622|STE4\_SCHPO | MGDSDDFYWNWNNEAVCNWIEQLGFPHKEAFEDYHILGKDIDLLSSNDLRDMGIESVGHRIDILSAIQSMKKQQKDKLQQENKDQELKNIEESYKKLEEKTEHLSDDNVSLEKRVEYLETENTKLVKTLNSLNSEFLQLLRKIAINVKEGRQLTTENSSDTSSMTHPVQPSPSVLGSFDLEVNDSLTNAEKNRKLNVNLTYNEVLCSMLQRYRIDPNTWMSYDLLINYDDKEHAIPMDVKPLQLFRNLQKRGKSPSFVLSRRSC |
| 238 | sp|Q9LXL5|SUS4\_ARATH | MANAERVITRVHSQRERLDATLVAQKNEVFALLSRVEAKGKGILQHHQIIAEFEAMPLETQKKLKGGAFFEFLRSAQEAIVLPPFVALAVRPRPGVWEYVRVNLHDLVVEELQASEYLQFKEELVDGIKNGNFTLELDFEPFNAAFPRPTLNKYIGDGVEFLNRHLSAKLFHDKESLHPLLKFLRLHSHEGKTLMLNNRIQNLNTLQHNLRKAEEYLMELKPETLYSEFEHKFQEIGLERGWGDTAERVLNMIRLLLDLLEAPDPCTLENFLGRIPMVFNVVILSPHGYFAQDNVLGYPDTGGQVVYILDQVRALETEMLQRIKQQGLNITPRILIITRLLPDAAGTTCGQRLEKVYGSQYCDILRVPFRTEKGIVRKWISRFEVWPYLETFTEDVAAEISKELQGKPDLIIGNYSDGNLVASLLAHKLGVTQCTIAHALEKTKYPDSDIYWKKLDEKYHFSCQFTADLIAMNHTDFIITSTFQEIAGSKDTVGQYESHRSFTLPGLYRVVHGIDVFDPKFNIVSPGADMSIYFAYTEEKRRLTAFHLEIEELLYSDVENEEHLCVLKDKKKPIIFTMARLDRVKNLSGLVEWYGKNTRLRELVNLVVVGGDRRKESQDNEEKAEMKKMYELIEEYKLNGQFRWISSQMNRVRNGELYRYICDTKGAFVQPALYEAFGLTVVEAMTCGLPTFATCNGGPAEIIVHGKSGFHIDPYHGDKAAESLADFFTKCKHDPSHWDQISLGGLERIQEKYTWQIYSQRLLTLTGVYGFWKHVSNLDRLESRRYLEMFYALKYRPLAQAVPLAHEE |
| 239 | sp|O16259|STIP1\_CAEEL | MTDAAIAEKDLGNAAYKQKDFEKAHVHYDKAIELDPSNITFYNNKAAVYFEEKKFAECVQFCEKAVEVGRETRADYKLIAKAMSRAGNAFQKQNDLSLAVQWFHRSLSEFRDPELVKKVKELEKQLKAAERLAYINPELAQEEKNKGNEYFKKGDYPTAMRHYNEAVKRDPENAILYSNRAACLTKLMEFQRALDDCDTCIRLDSKFIKGYIRKAACLVAMREWSKAQRAYEDALQVDPSNEEAREGVRNCLRSNDEDPEKAKERSLADPEVQEILRDPGMRMILEQMSNDPGAVREHLKNPEIFQKLMKLRDAGVIQMR |
| 240 | sp|P64545|YFGG\_ECOLI | MSQATSMRKRHRFNSRMTRIVLLISFIFFFGRFIYSSVGAWQHHQSKKEAQQSTLSVESPVQR |
| 241 | sp|B7MLM2|YTFE\_ECO45 | MAYRDQPLGELALSIPRASALFRKYDMDYCCGGKQTLARAAARKELDVEVIEAELAKLAEQPIEKDWRSAPLAEIIDHIIVRYHDRHREQLPELILQATKVERVHADKPSVPKGLTKYLTMLHEELSSHMMKEEQILFPMIKQGMGSQAMGPISVMESEHDEAGELLEVIKHTTNNVTPPPEACTTWKAMYNGINELIDDLMDHISLENNVLFPRALAGE |
| 242 | sp|B5FSB1|YTFE\_SALDC | MAYRDQPLGELALSIPRASALFRQYDMDYCCGGKQTLARAAARHDVDIDIIEAQLAQLAEQPIEKDWRAVPLADIIDHIVVRYHDRHREQLPELILQATKVERVHADKPNVPRGLTKYLTALHEELSSHMMKEEQILFPMIKQGMGRQATGPISVMESEHDEAGELVDVIKHVTQNVTPPPEACTTWKAMYNGINEMIDDLMEHISLENNVLFPRALAGE |
| 243 | sp|A5A621|YPFM\_ECOLI | MIERELGNWKDFIEVMLRK |
| 244 | sp|A5A618|YNHF\_ECOLI | MSTDLKFSLVTTIIVLGLIVAVGLTAALH |
| 245 | sp|A7MM70|YTFE\_CROS8 | MAFRDQPLGELALTIPRASALFRKYNLDFCCGGKQTLLRAATRQALDLDVIESELAALAETPLEKDWQAAPLAEIIEHILVRYHDRHREQLPELILQATKVERVHADKPGVPKGLAKYLSLLHEELTSHMMKEERVLFPMIKQGMGSQAAGPVSVMESEHDEAGELLEVIKHTTNNVTPPPEACTTWRALYNGINELIDDLMNHISLENNTLFPRALAGEK |
| 246 | sp|Q8XCH9|YTFE\_ECO57 | MAYRDQPLGELALSIPRASALFRKYDMDYCCGGKQTLARAAARKELDVEVIEAELAKLAEQPIEKDWRSAPLAEIIDHIIVRYHARHREQLPELILQATKVERVHADKPSVPKGLTKYLTMLHEELSSHMMKEEQILFPMIKQGMGSQAMGPISVMESEHDEAGELLEVIKHNTNNVTPPPEACTTWKAMYNGINELIDDLMDHISLENNVLFPRALAGE |
| 247 | sp|B4TFE3|YTFE\_SALHS | MAYRDQPLGELALSIPRASALFRQYDMDYCCGGKQTLARAAARHDVDIDIIEAQLAQLAEQPIEKDWRAVPLADIIDHIVVRYHDRHREQLPELILQATKVERVHADKPNVPRGLTKYLTALHEELSSHMMKEEQILFPMIKQGMGRQATGPISVMESEHDEAGELVDVIKHVTQNVTPPPEACTTWKAMYNGINEMIDDLMEHISLENNVLFPRALAGE |
| 248 | sp|Q8S948|SPS1\_ARATH | MMTSCRNIDLGTMMMACGCGRRQFPSLAKTVCKFTSSNRSYGGLVGSCKAVPTKSKEISLLNGIGQSQTVSFDLKQESKQPISLVTLFELVAVDLQTLNDNLLSIVGAENPVLISAAEQIFGAGGKRMRPGLVFLVSHATAELAGLKELTTEHRRLAEIIEMIHTASLIHDDVLDESDMRRGKETVHELFGTRVAVLAGDFMFAQASWYLANLENLEVIKLISQVIKDFASGEIKQASSLFDCDTKLDEYLLKSFYKTASLVAASTKGAAIFSRVEPDVTEQMYEFGKNLGLSFQIVDDILDFTQSTEQLGKPAGSDLAKGNLTAPVIFALEREPRLREIIESEFCEAGSLEEAIEAVTKGGGIKRAQELAREKADDAIKNLQCLPRSGFRSALEDMVLYNLERID |
| 249 | sp|G4NAY4|SSB1\_MAGO7 | MSTEVYDGAIGIDLGTTYSCVATYEGSNVEIIANEQGSFTTPSFVSFTADERLIGEAAKNQAAMNPANTVFDVKRLIGRRFDDPTVKKDMESWPFKVVDEDGNPKVEVEYLGTTHKFSPQEISAMVLVKMKEIAEAKIGKKVEKAVITVPAYFNDNQRQSTKDAGAISGLNVLRIINEPTAAAIAYGLGSGKSEKERNVLIYDLGGGTFDVSLLNIQGGVFTVKATAGDTHLGGQDFDTNLLDHCKKDFQRKTKKDLSGDARALRRLRTACERAKRTLSNGTQTTLEIDSLFDGEDFSLQITRAKFEELNQTAFKGTLDPVTQVLKDAGVDKAAVDEIVLVGGSTRIPKIQKLLSDYFGGKKLEKSINPDEAVAYGAAVQAGILSGKATSAETADLLLLDVVPLSLGVAMEGNIFAPVVPRGTTVPTLKKRSFTTVADQQQTVQFPVYQGERTNCSENVSLGEFTLAPIPPMRAGEPVLEVVFEVDVNGILKVTATEKTSGRSANITIANSVGKLSTSEIENMISEAEKYKTNDEEFTKKHEAKQQLESYIARVEDIISDPTLALKLKRGQKEKIENTMSEAMAQLELGESTADDLKKKELALKRAVTKAMSSR |
| 250 | sp|B3LRC2|UTH1\_YEAS1 | MKLSALLALSASTAVLAAPAVHHSDNHHHNDKRAVVTVTQYVNADGTVVIPAANTATSAAADGKVESVAAATTTLSSTAAAATTSAAASSSSSSSSSSSSVGSGDFEDGTISCSDFPSGQGAVSLDWLGLGGWASIMDMNGNTATSCQDGYYCSYACSPGYAKTQWPSEQPSDGRSVGGLYCKNGKLYRSNTDTNSLCVEGQGSAQAVNKVSGSIAICGTDYPGSENMVVPTVVGAGSSQPINVIKEDSYYQWQGKKTSAQYYVNNAGVSVEDGCIWGTEGSGVGNWAPVVLGAGYTDGITYLSIIPNPNNKEAPNFNIKIVATDGSTVNGACSYENGVYSGSGSDGCTVSVTSGSANFVFY |
| 251 | sp|P81086|WSP7\_PINPS | SDTTAGSYAEALAELLTIDPSLIVTTVDTQLAVAG |
| 252 | sp|Q9LU01|Y3IP1\_ARATH | MTTQIFQLPLKYCASSFSSTGQRNYGASSSPSPIVICKSNGISDGLWVKRRKNNRRFGSLIVKQEKGDVTEIRVPVPLTLEQQEKEKQNRDDEEDEIDEGDVDPEDLKYVNEIKRVIELLRRNRDMIFSEVKLTIMIEDPRELERRRLLGIEDADTPSRDDLAEALEQVNDGKIPKDRATLRMLHEEMIRWPNLEVEVSKKQRGKSMYAKSTDTGIDPKEAAKRLNVEWDSAAAIEEVDVDDEQGVVTKVAGYGALYFVSALPVIIGISVVLILFYNSLQ |
| 253 | sp|P53169|YBP2\_YEAST | MYNEQVNSGKSIKEKERYLDALLKILKDNPVTLKEIGWDLPKGLLQFFSRKNINVNIHLVFSPLVSSVMECFNELAINGNPKECLLTACELVSTLHIVLTETGDSDEENEDLNDSNRNDASNITDELSVITPEIGHYMAKNTVEFIPNLKIYVLFEFMSLLLKRVDTLYPSKFLAMVTSAIIKYVTTNVQAMDDPHFILRIVYNFCTNYSPAQPSASLTDGISTNDLEKIHDDESALQKKLLANLSVFVISNCLKNHPGNIDKIYFKTLMHKKTDENEIDASVLQICHQYYEYVTSLDVHMKELLEKCLVESRSIYNSLLMNPAASTPEFKEEINQLVYEVSYAYQIKKLADEKNLELDQYGVVILSAIHYSKNGTHLLPQIDIQSAIYLYLRCTTASLFSEIYENKFLESSVRYWLWVSTTETSTEKIKCALQELPGHITTAFLQMLLMKTCNESNNDTKLTEITLLRRLLYLMPESTSFTFIFETLLHCPYITAKIAVLDILRDMMIRSPEAANRDETVGLIEQQNPGNTANSVPIMPTLPPRPYITINEDRMASIHSIALICFSAAKQKKRTQGDLLLVLTYMKFFVSLRNKWDLGLLTLINKEISESFQGEGEPELAFINISNNTLGEYIEEMNIRS |
| 254 | sp|P33128|YADV\_ECOLI | MFFNTKHTTALCFVTCMAFSSSSIADIVISGTRVIYKSDQKSVNVRLENKGNNPLLVQSWLDTGDDNAEPGSITVPFTATPPVSRIDAKRGQTIKLMYTASTSLPKDRESVFWFNVLEVPPKPDAEKVANQSLLQLAFRTRIKLFYRPDGLKGNPSEAPLALKWFWSGSEGKASLRVTNPTPYYVSFSSGDLEASGKRYPIDVKMIAPFSDEVMKVNGLNGKANSAKVHFYAINDFGGAIEGNARL |
| 255 | sp|P38315|YBP1\_YEAST | MEPIDDILFEVTDAFKTQKEDLLELVTLIDIYGEQVNQEGSYEEKTRFIETLNTLLEDNPSTTGEIGWDLPKGLLKFLSKDNVDVNGRLGTNMIVQGVMKCFYAISIQGEPKKCLITGLELLSSLCSKDFSKSDQQNKEDFVDKKANTLPPEGVIENSSNRKDFPSYGESKSSNEFFLKLKSYILFEFIGASLKRISTLFPSKYLGAAVSTIEKFVYSHADTFEDALFLLRRVYTFCRNYIPPDPPKDIQLNEDFTREMFDKVVEEESELQVRLLRRLCTFGISTPIKTVTTNADVKYYCALNQQKFELSAYYTEYLELFCRYYQMAFSLDVDIEGEFQNVIKECRIIYKSVPQEISAVNDEAKLVLERMVYKLAYTFEVQKAAKEKNVGLDYNGVILFSGIHYLETNQHLVKEMNITDAIYLYLRFTTPSLYSKVYYNVAVESVSRYWLWYAITTEPLEDVKKELKNLSVFVTKTLLHVLLQKNCIQVNQQLRMITFTLLTRLLCLIPEKVAFEFILDVLKTSPLPLAKTSVLCVFKDLSRRRISTKDNDSETDLIVEKLSKLKVNDSNKAQQSNIRHYIQLDSSKMKAVHDCCLQTIQDSFTADAKKSDILLLLTYLNIFIVLKKTWDEDLLKIVCSKIDSNLKSVEPDKLPKYKEIVDKNESLNDYFTGIK |
| 256 | sp|B1LR94|YTFE\_ECOSM | MAYRDQPLGELALSIPRASALFRKYDMDYCCGGKQTLARAAARKELDVDVIEAELAKLAEQPIEKDWRSAPLAEIIDHIIVRYHDRHREQLPELILQATKVERVHADKPSVPKGLTKYLTMLHEELSSHMMKEEQILFPMIKQGMGSQAMGPISVMESEHDEAGELLEVIKHTTNNVTPPPEACTTWKAMYNGINELIDDLMEHISLENNVLFPRALAGE |
| 257 | sp|A8A7W5|YTFE\_ECOHS | MAYRDQPLGELALSIPRASALFRKYDMDYCCGGKQTLARAAARKELDVEVIEAELAKLAEQPIEKDWRSAPLAEIIDHIIVRYHDRHREQLPELILQATKVERVHADKPSVPKGLTKYLTMLHEELSSHMMKEEQILFPMIKQGMGSQAMGPISVMESEHDEAGELLEVIKHTTNNVTPPPEACTTWKAMYNGINELIDDLMDHISLENNVLFPRALAGE |
| 258 | sp|Q3YUD8|YTFE\_SHISS | MAYRDQPLGELALSIPRASALFRKYDMDYCCGGKQTLARAAARKELDVEVIEAELAKLAEQPIEKDWRSAPLAEIIDHIIVRYHDRHREQLPELILQATKVERVHADKPSVPKGLTKYLTMLHEELSSHMMKEEQILFPMIKQGMGSQAMGPISVMESEHDEAGELLEVIKHTTNNVTPPPEACTTWKAMYNGINELIDDLMDHISLENNVLFPRALAGE |
| 259 | sp|P54375|SODM\_BACSU | MAYELPELPYAYDALEPHIDKETMTIHHTKHHNTYVTNLNKAVEGNTALANKSVEELVADLDSVPENIRTAVRNNGGGHANHKLFWTLLSPNGGGEPTGALAEEINSVFGSFDKFKEQFAAAAAGRFGSGWAWLVVNNGKLEITSTPNQDSPLSEGKTPILGLDVWEHAYYLNYQNRRPDYISAFWNVVNWDEVARLYSEAK |
| 260 | sp|Q9USI5|STI1\_SCHPO | MAEELKAKGNAAFSKKDYKTAIDYFTQAIGLDERNHILYSNRSACYASEKDYADALKDATKCTELKPDWAKGWSRKGAALHGLGDLDAARSAYEEGLKHDANNAQLLNGLKSVEAAQTQAASGAGGFNPFAKLGSQLSDPKFMEKLASNPETASLLADSAFMAKLQKIQQNPGSIMAELNDPRMMKVIGMLMGIDINMNAGEGAAEEQEKKEEFAPSSSTPSADSAKPETTNPPPQPQASEPMEEDKTAEELEEAATKEALKKKADQEKQIGNENYKKRNFPVAIEQYKKAWDTYKDITYLNNLAAAYFEADQLDDCIKTCEDAIEQGRELRADFKLIAKALGRLGTTYQKRGDLVKAIDYYQRSLTEHRTPDILSRLKDAEKSKELQDREAYIDPDKAEESRVKGNELFKSGDFANAIKEYTEMTKRAPSDPRGFGNRAAAYLKVMAPAECIRDCNKAIELDPNFAKAYVRKAQALFMLKDYNKCIDACNEASEVDRREPNTGKNLREIESQLSKCMSAMASQRQNETEEETMARIQKDPEVLGILQDPAMQAILGQARENPAALMEHMKNPTVKSKIEKLIASGVIRLG |
| 261 | sp|C1P603|YOAJ\_ECOLI | MKKTTIIMMGVAIIVVLGTELGWW |
| 262 | sp|Q0SXF6|YTFE\_SHIF8 | MAYRDQPLGELALSIPRASALFRKYDMDYCCGGKQTLARAAARKELDVEVIEAELAKLAEQPIEKDWRSAPLAEIIDHIIVRYHDRHREQLPELILQATKVERVHADKPSVPKGLTKYLTMLHEELSSHMMKEEQILFPMIKQGMGSQAMGPISVMESEHDEAGELLEVIKHTTNNVTPPPEACTTWKAMYNGINELIDDLMDHISLENNVLFPRALAGE |
| 263 | sp|P10080|SSBP1\_YEAST | MSAEIEEATNAVNNLSINDSEQQPRAPTHKTVIDPEDTIFIGNVAHECTEDDLKQLFVEEFGDEVSVEIPIKEHTDGHIPASKHALVKFPTKIDFDNIKENYDTKVVKDREIHIKRARTPGQMQRGGFRGRGGFRGRGGFRGGFRGGYRGGFRGRGNFRGRGGARGGFNGQKREKIPLDQMERSKDTLYINNVPFKATKEEVAEFFGTDADSISLPMRKMRDQHTGRIFTSDSANRGMAFVTFSGENVDIEAKAEEFKGKVFGDRELTVDVAVIRPENDEEEIEQETGSEEKQE |
| 264 | sp|Q9K4V3|SODM\_STAXY | MAFELPNLPYGFDALEPHIDQQTMEIHHGKHHNTYVTKLNAAVEGTDLESKSIEEIVANLDSVPENIQTAVRNNGGGHLNHSLFWELLTPNSEEKGTVVDKIKEQWGSLDAFKEEFADKAAARFGSGWAWLVVNNGNLEIVTTPNQDNPITEGKTPILGLDVWEHAYYLKYQNKRPDYISAFWNVVNWEKVDELYNAAK |
| 265 | sp|Q8Z157|YTFE\_SALTI | MAYRDQPLGELALSIPRASALFRQYDMDYCCGGKQTLARAAARHDVDIDIIEAQLAQLAEQPIEKDWRAVPLADIIDHIVVRYHDRHREQLPELILQATKVERVHADKPNVPRGLTKYLTALHEELSSHMMKEEQILFPMIKQGMGRQATGPISVMESEHDEAGELVDVIKHVTQNVTPPPEACTTWKAMYNGINEMIDALMEHISLENNVLFPRALAGE |
| 266 | sp|Q0JCU7|ZEP\_ORYSJ | MALLSATAPAKTRFSLFSHEEAQHPHPHALSACCGGGASGKRQRARARVAAAMRPADAAASVAQAASPGGGGEGTRRPRVLVAGGGIGGLVLALAARRKGYEVTVFERDMSAVRGEGQYRGPIQIQSNALAALEAIDMSVAEEVMREGCVTGDRINGLVDGISGSWYIKFDTFTPAAERGLPVTRVISRMTLQQILARAVGDDAILNDSHVVDFIDDGNKVTAILEDGRKFEGDLLVGADGIWSKVRKVLFGQSEATYSEYTCYTGIADFVPPDIDTVGYRVFLGHKQYFVSSDVGAGKMQWYAFHKEPAGGTDPENGKNKRLLEIFNGWCDNVVDLINATDEEAILRRDIYDRPPTFNWGKGRVTLLGDSVHAMQPNLGQGGCMAIEDGYQLAVELEKSWQESAKSGTPMDIVSSLRRYEKERILRVSVIHGLARMAAIMATTYRPYLGVGLGPLSFLTKLRIPHPGRVGGRFFIKYGMPLMLSWVLGGNSTKLEGRPLSCRLSDKANDQLRRWFEDDDALEQAMGGEWYLLPTSSGDSQPIRLIRDEKKSLSIGSRSDPSNSTASLALPLPQISENHATITCKNKAFYVTDNGSEHGTWITDNEGRRYRVPPNFPVRFHPSDAIEFGSDKKAVFRVKVLSTLPYESARGGPQILQAA |
| 267 | sp|Q9SU39|TPPF\_ARATH | MDLNSNHKSSVLKDPSPSVNQSRLGVSSRFMMSQWKKPAKLDDVRSNGWLDAMISSSPPRKKLVKDFNVEVAPEDDFAQRAWMVKYPSAISSFAHIAAQAKKKKIAVFLDYDGTLSPIVDDPDRAIMSDAMRSAVKDVASYFPTAIISGRSRDKVYQLVGLTELYYAGSHGMDIMTSSDGPNCFKSTDQQGKEVNLFQPAREFIPVIDEVFRTLVEKMKDIKGAKVENHKFCASVHYRNVDEKDWPIIAQRVHDHLKQYPRLRLTHGRKVLEVRPVIDWNKGRAVEFLLESLGLSNKDDLLPIYIGDDTTDEDAFKVLRDGNRGFGILVSSIPKESNAFYSLRDPSEVKKFLKTLVKWAKLEKNSTGF |
| 268 | sp|P40387|TPS1\_SCHPO | MSDAHDTIKSLTGDASNSRRLIVVSNRLPITIKRKDNGTYDFSMSSGGLVSALSGLKKLMTFQWLGWCGQEIPEDEKPMIIQRLQDECSAIPVFLDDETADRHYNGFSNSILWPLFHYHPGEINFDEENWEAYRAANYAFAEAIVKNLQDGDLIWVQDYHLMVLPQMLRELIGDKFKDIKIGFFLHTPFPSSEIYRVLPVRNEILEGVLNCDLVGFHTYDYARHFLSACSRILNLSTLPNGVEYNGQMVSVGTFPIGIDPEKFSDALKSDVVKDRIASIERRLQGVKVIVGVDRLDYIKGVPQKFHAFEVFLEQYPEWVGKVVLVQVAVPSRQDVEEYQNLRAVVNELVGRINGRFGTVEYTPIHFLHKSVRFEELVALYNVSDVCLITSTRDGMNLVSYEYICTQQERHGALILSEFAGAAQSLNGSIVINPWNTEELANSIHDALTMPEKQREANENKLFRYVNKYTSQFWGQSFVGELQRIQHYSHPHPRRTNPILRTKSAQVLSMNSSS |
| 269 | sp|O32268|TUAG\_BACSU | MTNWKPLVSVITPSYNARDYIEDTVHSVLDQSHPHWEMIIVDDCSTDGTRDILQQYEKIDERIHVVYLEENSGAAVARNKALERAQGRYVAFLDSDDKWKKDKLEKQLEFMMERSCAFSFTGYSLMAQDGTPLDKFIHAPESLTYDDALKNTIIGCLTVMIDREQTGQIQMPNIRTRQDLATWLSLLKKGFTAYGMNECLAEYRLVNNSISSNKWKAAKKTWFVYREIERLHFMKATWCFVQYAKNAVKKRL |
| 270 | sp|P81667|UN02\_PINPS | FYSAPTRDNVFEL |
| 271 | sp|Q9XU84|UDA1\_CAEEL | MLFPAFSILLISFFSLLSVVTTKTQYWCHGDGVLNNQHTCRFFTIVIDAGSTGTRLHLYKFIHDPAIASHGMPFKVEKEIFQEVKPGLSSFAKSPSSAADSLEPLLQRARKEVPHFMWEKTPITLKATAGLRLLPGDMADDILESVEERIFNSGFFAAFPDAVNVMPGSDEGVYSWFTLNILLETLFTDEPTVGHKPAAHRSVAAFDLGGGSTQLTYWPNNEAVFSEHVGYERDIDFFGHHIRLFTHSFLGNGLIAARLNILQLETDNEIESTHQLITSCMPEGYQLTEWEYALKFWNINGSSSHSFESCYGTTKNFVESSEIMHLRELKGSPVYLFSYFFDRALNSGLVKGNEGGKIELRQFKEAAEIACRREKTEIDDGSHWMPWQCLDLTYIYSLLRDGYQFEDNQPLVLAKKIKGMEVSWGQGLAFATANEFQLTEGAIKTALSSEPNSTVVDQIFDLVYSGTNQVLSYFNIISV |
| 272 | sp|A9R568|YTFE\_YERPG | MDYRNQSLGALAIAIPRATKLFRQHQLDFCCGGKQTLLRAANKLNLDIDALEAQLSALQTEPHSSEDWQQQPLTNLISFIISRYHDRHREQLPELVLMAEKVERVHGEKPTCPRGLAAELSAILEELTQHMYKEEQILFPMIQRGMGSQASGPIFVMEAEHDAVGQQLDVVKQLTQNVTPPEGACNTWRALYTGINEFITDLMEHIHLENNLLFPRALRGE |
| 273 | sp|Q5D1E7|ZC12A\_MOUSE | MSDPCGTKPVQESNPTMSLWSLEDRHSSQGRPQPDQDPVAKEAPTSELQMKVDFFRKLGYSSSEIHSVLQKLGVQADTNTVLGELVKHGSATERECQALTAPSPQPPLVPRGGSTPKPSTLEPSLPEEDREGSDLRPVVIDGSNVAMSHGNKEVFSCRGILLAVNWFLERGHTDITVFVPSWRKEQPRPDVPITDQHILRELEKKKILVFTPSRRVGGKRVVCYDDRFIVKLAFESDGVVVSNDTYRDLQGERQEWKRFIEERLLMYSFVNDKFMPPDDPLGRHGPSLDNFLRKKPLPSEHRKQPCPYGKKCTYGIKCRFFHPERPSRPQRSVADELRANALLSPPRTPVKDKSSQRPSPASQSSSVSLEAEPGSLDGKKLGARSSPGPHREGSPQTCAPAGRSLPVSGGSFGPTEWLAHTQDSLPYTSQECLDSGIGSLESQMSELWGVRGGSPGESGPTRGPYAGYHSYGSKVPAAPSFSPFRPAMGAGHFSVPTDYVPPPPTYPSREYWSEPYPLPPPTPVLQEPQRPSPGAGGGPWGRVGDLAKERAGVYTKLCGVFPPHLVEAVMRRFPQLLDPQQLAAEILSYKSQHLSE |
| 274 | sp|P40489|XBP1\_YEAST | MKYPAFSINSDTVHLTDNPLDDYQRLYLVSVLDRDSPPASFSAGLNIRKVNYKSSIAAQFTHPNFIISARDAGNGEEAAAQNVLNCFEYQFPNLQTIQSLVHEQTLLSQLASSATPHSALHLHDKNILMGKIILPSRSNKTPVSASPTKQEKKALSTASRENATSSLTKNQQFKLTKMDHNLINDKLINPNNCVIWSHDSGYVFMTGIWRLYQDVMKGLINLPRGDSVSTSQQQFFCKAEFEKILSFCFYNHSSFTSEESSSVLLSSSTSSPPKRRTSTGSTFLDANASSSSTSSTQANNYIDFHWNNIKPELRDLICQSYKDFLINELGPDQIDLPNLNPANFTKRIRGGYIKIQGTWLPMEISRLLCLRFCFPIRYFLVPIFGPDFPKDCESWYLAHQNVTFASSTTGAGAATAATAAANTSTNFTSTAVARPRQKPRPRPRQRSTSMSHSKAQKLVIEDALPSFDSFVENLGLSSNDKNFIKKNSKRQKSSTYTSQTSSPIGPRDPTVQILSNLASFYNTHGHRYSYPGNIYIPQQRYSLPPPNQLSSPQRQLNYTYDHIHPVPSQYQSPRHYNVPSSPIAPAPPTFPQPYGDDHYHFLKYASEVYKQQNQRPAHNTNTNMDTSFSPRANNSLNNFKFKTNSKQ |
| 275 | sp|C1P609|YOHP\_ECOLI | MKIILWAVLIIFLIGLLVVTGVFKMIF |
| 276 | sp|B7NUC3|YTFE\_ECO7I | MAYRDQPLGELALSIPRASALFRKYDMDYCCGGKQTLARAAARKELDVDVIEAELAKLAEQPIEKDWRSAPLAEIIDHIIVRYHDRHREQLPELILQATKVERVHADKPSVPKGLTKYLTMLHEELSSHMMKEEQILFPMIKQGMGSQAMGPISVMESEHDEAGELLEVIKHTTNNVTPPPEACTTWKAMYNGINELIDDLMEHISLENNVLFPRALAGE |
| 277 | sp|Q8ZK76|YTFE\_SALTY | MAYRDQPLGELALSIPRASALFRQYDMDYCCGGKQTLARAAARHDVDIDIIEAQLAQLAEQPIEKDWRAVPLADIIDHIVVRYHDRHREQLPELILQATKVERVHADKPNVPRGLTKYLTALHEELSSHMMKEEQILFPMIKQGMGRQATGPISVMESEHDEAGELVDVIKHVTKNVTPPPEACTTWKAMYNGINEMIDDLMEHISLENNVLFPRALAGE |
| 278 | sp|Q5B601|Y4029\_EMENI | MPHLPELSKQEPSANTLVDNYRAKGEDLENSHHNNESRLAEGVHYDRNKAPALQEREKASTEKVNVEGGGASSSMVDNIRRGNPSGVA |
| 279 | sp|Q1CBX2|YTFE\_YERPA | MDYRNQSLGALAIAIPRATKLFRQHQLDFCCGGKQTLLRAANKLNLDIDALEAQLSALQTEPHSSEDWQQQPLTNLISFIISRYHDRHREQLPELVLMAEKVERVHGEKPTCPRGLAAELSAILEELTQHMYKEEQILFPMIQRGMGSQASGPIFVMEAEHDAVGQQLDVVKQLTQNVTPPEGACNTWRALYTGINEFITDLMEHIHLENNLLFPRALRGE |
| 280 | sp|O34970|YTTP\_BACSU | MKVSTKDKIIESAVMLFNQKGFSGTSVREIAKSADVNVAHISYYFKGKGGLMEHLVSEFYEGYSKTLETAASNISTQSTQEQLLQLVFDILSYQHNHRQLTRFVYREVTIDSTLIREIMSTYLMKEKYIFQLIIEEGEKQREYLTLPLPHFILQLKSLLMMPYLQPQYISEVLYMQPHEPYFYKMYFEEIKIWIRSVFRTGDVALTN |
| 281 | sp|Q10D00|SUV3M\_ORYSJ | MAVAAALLRRRALYSALASPSWLHDTSSCYICSISGTHSLVNHPNLRLQRGYHNSGKFDLTDLTHPHIWYPNAREKKRNVFLHVGPTNSGKTHNALKRLEASSSGVYCGPLRLLAREVAQRLNKANVPCNLITGQEREEIEGAKHSSVTVEMADMTTEYQCAVIDEIQMVGCRSRGFSFTRALLGLCSDELHVCGDPAVVPLIQRILEPTGDVVTVQYYERLSPLVPLKTTLGSFSNIKAGDCVVTFSRRSIYMLKRRIEMGGKHLCSVVYGSLPPETRTKQATMFNDQDSNLNVLVASDAIGMGLNLNISRIIFSTLEKFDGICNRELTVAEIKQIAGRAGRYGSKFPVGEVTCLNSDHLPLLHSALKSPSPIIERAGLFPTFDVLSLYSRLHGTDFFQPILERFLDKAKLSPDYFIADCEDMLKVAAIVDELPLGLYDKYLFCLSPVDIRDDISTKGLIQFAENYAKKGIVRLKEIFTPGTLQVPKSHNQLKELESIHKVLELYVWLSFRLEDSYPDRELAASQKSICSMLIEEYLERSGWQQNGRKDFLQKPKRLHQEYDASQLRKYFQEIDVRSK |
| 282 | sp|Q59VQ8|WAR1\_CANAL | MSDTTPEKGSVDSVSPSASNGSNTNNPLNNSSPQPLKSNESDKKPKVTRRSVACKSCHSLKVKCTPSDPNNPSAPCVRCINANRICEIDLNQTRKRRKKSEILEAKRQAGQSLPEHKKEKNTPTQSGYNSSENYSSSINNANDSSLTSRYQSPMTFDPTSPMVFRPQASSAVPPISSNLNPQSAAPTPIPTSGIPPQLPSPHESAILRGNTTSPTSKDDEINQLKQRVRFLETELANKRLLANKKGFSNDSPTDLQSPPFVSKFDLESEISILAESSARLTDLTNQLNEAASRRIQLVSAKKPVDLISKGVITVAEAEERLKLYREQIYGRHPLIAIPDNMHAIEFSQSQPFLFNSIMSACNLITKNADKDVVLAIDNEAMTSVAVEVMVVGTKSVELVKAFSVLCLYYNSPELFKQRRYHMLNTICVSLLHDVGIFARPTYSYNQADGTLKQDASSKDKGNDEYRELVLITYFVTVSTCLVLRRSIYARWTPYVEECCSLLENSSQEKHRRLALFARMNNKLDKIHHIVHAPEMPGQKSGVSQYVIQELQRLLSDLKLKIKDNQYSLLSYYYSIEAYLHEPILTKVFKSDTELDGKAMKSIRYCTSSCLNALDEYSKLTPDQIALLPFPFGSRIMYTAGMLLRLRYLILSLPSHIDKELVPKRAVTSIQCVSKLVEQANILNPHNHYLTKMRLVLQLFIQTYATQVLELLSKNGNTPQNFKPDESETQQLRALAREYNDIRKVSKVSLVSDTRSAEPLDVLSYAATFRRENNDKPSAVAGSLRKSFSENDQAIKTPSQCGQFVSANNTPVPQVINSPPISQTNVPVLHQSQSIINGNNRNSAPLAFNNTTTPSLHQFGDVLPPSSMPQPDYRQFRLPSISNTVHYSSNPRLNANLANPDQLENSYQVLNDEFWSNLLSTDSTDRINFTSNNFNGNTSNDEVFFMNN |
| 283 | sp|P9WF41|WHIB3\_MYCTU | MPQPEQLPGPNADIWNWQLQGLCRGMDSSMFFHPDGERGRARTQREQRAKEMCRRCPVIEACRSHALEVGEPYGVWGGLSESERDLLLKGTMGRTRGIRRTA |
| 284 | sp|P69506|YTFE\_ECOLI | MAYRDQPLGELALSIPRASALFRKYDMDYCCGGKQTLARAAARKELDVEVIEAELAKLAEQPIEKDWRSAPLAEIIDHIIVRYHDRHREQLPELILQATKVERVHADKPSVPKGLTKYLTMLHEELSSHMMKEEQILFPMIKQGMGSQAMGPISVMESEHDEAGELLEVIKHTTNNVTPPPEACTTWKAMYNGINELIDDLMDHISLENNVLFPRALAGE |
| 285 | sp|B1XDV9|YTFE\_ECODH | MAYRDQPLGELALSIPRASALFRKYDMDYCCGGKQTLARAAARKELDVEVIEAELAKLAEQPIEKDWRSAPLAEIIDHIIVRYHDRHREQLPELILQATKVERVHADKPSVPKGLTKYLTMLHEELSSHMMKEEQILFPMIKQGMGSQAMGPISVMESEHDEAGELLEVIKHTTNNVTPPPEACTTWKAMYNGINELIDDLMDHISLENNVLFPRALAGE |
| 286 | sp|Q2YUU9|SODM2\_STAAB | MAFKLPNLPYAYDALEPYIDQRTMEFHHDKHHNTYVTKLNATVEGTELEHQSLADMIANLDKVPEAMRMSVRNNGGGHFNHSLFWEILSPNSEEKGGVIDDIKAQWGTLDEFKNEFANKATTLFGSGWTWLVVNNGKLEIVTTPNQDNPLTEGKTPILLFDVWEHAYYLKYQNKRPDYMTAFWNIVNWKKVDELYQAAK |
| 287 | sp|Q4L6Q3|SODM\_STAHJ | MAFELPNLPYATDALEPHIDKQTMEIHHDKHHNTYVTKLNSAVEGTDLESKSIEEIVANLDSVPEDIQTAVRNNGGGHLNHSLFWELLTPNSEEKGTVVDKIKEQWGSLDEFKKEFADKAAARFGSGWAWLVVNNGQLEIVTTPNQDNPLTEGKTPILGLDVWEHAYYLKYQNKRPDYISAFWNVVNWEKVDELYNATK |
| 288 | sp|Q49XZ6|SODM\_STAS1 | MAFELPNLPYGFDALEPHIDKQTMEIHHDKHHNTYVTKLNAAVEGTDLESKSIEEIVANLDSVPENIQTAVRNNGGGHLNHSLFWELLTPNSEEKGTVVDKIKEQWGSLDAFKEEFADKAAARFGSGWAWLVVNNGNLEIVTTPNQDNPLTEGKTPILGLDVWEHAYYLKYQNKRPDYISAFWNVVNWEKVDELYNAAK |
| 289 | sp|Q9SV13|SUT31\_ARATH | MGTEDYTFPQGAEELHRRHHTVEAPQPQPFLKSLQYSVKETLFPDDPFRQFKNQNASRKFVLGLKYFLPIFEWAPRYNLKFFKSDLIAGITIASLAIPQGISYAKLANLPPILGLYSSFVPPLVYAVLGSSRDLAVGTVAVASLLTGAMLSKEVDAEKDPKLYLHLAFTATFFAGVLEASLGIFRLGFIVDFLSHATIVGFMGGAATVVSLQQLKGIFGLKHFTDSTDVISVMRSVFSQTHEWRWESGVLGCGFLFFLLSTRYFSIKKPKFFWVAAMAPLTSVILGSLLVYFTHAERHGVQVIGDLKKGLNPLSGSDLIFTSPYMSTAVKTGLITGIIALAEGVAVGRSFAMFKNYNIDGNKEMIAFGMMNIVGSFTSCYLTTGPFSRSAVNYNAGCKTAMSNIVMAIAVMFTLLFLTPLFHYTPLVVLSAIIISAMLGLIDYQAAIHLWKVDKFDFLVCMSAYVGVVFGSVEIGLVVAVAISIARLLLFVSRPKTAVKGNIPNSMIYRNTEQYPSSRTVPGILILEIDAPIYFANASYLRERIIRWIDEEEERVKQSGESSLQYIILDMSAVGNIDTSGISMMVEIKKVIDRRALKLVLSNPKGEVVKKLTRSKFIGDHLGKEWMFLTVGEAVEACSYMLHTFKTEPASKNEPWNNV |
| 290 | sp|P51070|THS2\_VITVI | MASVEEIRNAQRAKGPATILAIGTATPDHCVYQSDYADYYFRVTKSEHMTALKKKFNRICDKSMIKKRYIHLTEEMLEEHPNIGAYMAPSLNIRQEIITAEVPKLGKEAALKALKEWGQPKSKITHLVFCTTSGVEMPGADYKLANLLGLEPSVRRVMLYHQGCYAGGTVLRTAKDLAENNAGARVLVVCSEITVVTFRGPSEDALDSLVGQALFGDGSAAVIVGSDPDISIERPLFQLVSAAQTFIPNSAGAIAGNLREVGLTFHLWPNVPTLISENIEKCLTQAFDPLGISDWNSLFWIAHPGGPAILDAVEAKLNLDKKKLEATRHVLSEYGNMSSACVLFILDEMRKKSLKGERATTGEGLDWGVLFGFGPGLTIETVVLHSIPMVTN |
| 291 | sp|B7LCS2|YTFE\_ECO55 | MAYRDQPLGELALSIPRASALFRKYDMDYCCGGKQTLARAAARKELDVEVIEAELAKLAEQPIEKDWRSAPLAEIIDHIIVRYHDRHREQLPELILQATKVERVHADKPSVPKGLTKYLTMLHEELSSHMMKEEQILFPMIKQGMGSQAMGPISVMESEHDEAGELLEVIKHTTNNVTPPPEACTTWKAMYNGINELIDDLMDHISLENNVLFPRALAGE |
| 292 | sp|Q328I9|YTFE\_SHIDS | MAYRDQPLGELALSIPRASALFRKYDMDYCCGGKQTLARAAARKELDVEVIEAELAKLAEQPIEKDWRSAPLAEIIDHIIVRYHDRHREQLPELILQATKVERVHADKPSVPKGLTKYLTMLHEELSSHMMKEEQILFPMIKQGMGSQAMGPISVMESEHDEAGELLEVIKHTTNNVTPPPEACTTWKAMYNGINELIDDLMDHISLENNVLFPRALAGE |
| 293 | sp|O82598|TIP13\_ARATH | MPINRIAIGTPGEASRPDAIRAAFAEFFSMVIFVFAGQGSGMAYGKLTGDGPATPAGLVAASLSHAFALFVAVSVGANVSGGHVNPAVTFGAFIGGNITLLRAILYWIAQLLGAVVACLLLKVSTGGMETAAFSLSYGVTPWNAVVFEIVMTFGLVYTVYATAVDPKKGDIGIIAPLAIGLIVGANILVGGAFDGASMNPAVSFGPAVVSWIWTNHWVYWVGPFIGAAIAAIVYDTIFIGSNGHEPLPSNDF |
| 294 | sp|Q9C9S4|TPPB\_ARATH | MTNQNVIVSDRKPILGLKTITVSVSNSPLFSNSFPTYFNFPRRKLLKLLEAADKNNLVVAPKITSMIDSMRDSSPTRLRSSSYDSVSDNDDKTSWIVRFPSALNMFDEIVNAAKGKQIVMFLDYDGTLSPIVEDPDKAFITHEMREVVKDVASNFPTAIVTGRSIEKVRSFVQVNEIYYAGSHGMDIEGPTNENSNGQSNERVLFQPAREFLPMIEKVVNILEEKTKWIPGAMVENNKFCLSVHFRRVDEKRWPALAEVVKSVLIDYPKLKLTQGRKVLEIRPTIKWDKGQALNFLLKSLGYENSDDVVPVYIGDDRTDEDAFKVLRERGQGFGILVSKVPKDTNASYSLQDPSQVNKFLERLVEWKRKTVGEE |
| 295 | sp|Q9FGC7|ZEP\_ARATH | MGSTPFCYSINPSPSKLDFTRTHVFSPVSKQFYLDLSSFSGKPGGVSGFRSRRALLGVKAATALVEKEEKREAVTEKKKKSRVLVAGGGIGGLVFALAAKKKGFDVLVFEKDLSAIRGEGKYRGPIQIQSNALAALEAIDIEVAEQVMEAGCITGDRINGLVDGISGTWYVKFDTFTPAASRGLPVTRVISRMTLQQILARAVGEDVIRNESNVVDFEDSGDKVTVVLENGQRYEGDLLVGADGIWSKVRNNLFGRSEATYSGYTCYTGIADFIPADIESVGYRVFLGHKQYFVSSDVGGGKMQWYAFHEEPAGGADAPNGMKKRLFEIFDGWCDNVLDLLHATEEEAILRRDIYDRSPGFTWGKGRVTLLGDSIHAMQPNMGQGGCMAIEDSFQLALELDEAWKQSVETTTPVDVVSSLKRYEESRRLRVAIIHAMARMAAIMASTYKAYLGVGLGPLSFLTKFRVPHPGRVGGRFFVDIAMPSMLDWVLGGNSEKLQGRPPSCRLTDKADDRLREWFEDDDALERTIKGEWYLIPHGDDCCVSETLCLTKDEDQPCIVGSEPDQDFPGMRIVIPSSQVSKMHARVIYKDGAFFLMDLRSEHGTYVTDNEGRRYRATPNFPARFRSSDIIEFGSDKKAAFRVKVIRKTPKSTRKNESNNDKLLQTA |
| 296 | sp|P24517|RADA\_SALTY | MAKAPKRAFVCNECGADYPRWQGQCSACHAWNTITEVRLAASPTVARNERLSGYAGSAGVSKVQKLSDISLEELPRFSTGFKEFDRVLGGGVVPGSAILIGGNPGAGKSTLLLQTLCKLAEQMKTLYVTGEESLQQVAMRAHRLGLPTANLNMLSETSIEQICLIAEEEQPKLMVIDSIQVMHMADIQSSPGSVAQVRETAAYLTRFAKTRGVAIVMVGHVTKDGSLAGPKVLEHCIDCSVLLDGDADSRFRTLRSHKNRFGAVNELGVFAMTEQGLREVSNPSAIFLSRGDEVTSGSSVMVVWEGTRPLLVEIQALVDHSMMANPRRVAVGLEQNRLAILLAVLHRHGGLQMSDQDVFVNVVGGVKVTETSADLALLLAMVSSLRDRPLPQDLVVFGEVGLAGEIRPVPSGQERISEAAKHGFRRAIVPAANVPKKPPEGMLVFGVKKLADALSVFDDL |
| 297 | sp|P45266|RADA\_HAEIN | MAKAPKTAYVCNDCGAEFSRWQGQCSACKAWNTITEVRLISTAKSKNDRFSGYAGETQAKIQTLSEISLQETPRFSSGFSELDRVLGGGIVPGSAILIGGHPGAGKSTLLLQVMCGLAKNMTALYVTGEESLQQVAMRASRLGLPSDQLKMLSETSVEQICNLADQLKPQIIVVDSIQVMHLADIQSSPGSVAQVRECASFLTRYAKTRQVAIIMVGHVTKDGTLAGPKVLEHAIDCSLLLEGEADSRYRTLRSHKNRFGAVNELGVFGMTEQGLREVKNPSAIFLSRGDEITSGSSVMVLWEGTRPLLVEIQALVDHSMLANPRRVAVGLEQNRLALLLAVLHRHGGLQMADQDVFVNVVGGVKVSETSADLALLLALISSFRNRPLPQDLVIFGEVGLAGEIRPVPSGQERISEAAKHGFKRAIVPFGNKPKSAVENMQVFTVKKLTDALAVLDNL |
| 298 | sp|P96963|RADA\_PSEAE | MAKAKRMYGCTECGATFPKWAGQCADCGAWNTLVETVVEAAPSGSGRGGWAGQQANLKTLAEVSVEEMPRFTTGSTELDRVLGGGLVDGSVVLIGGDPGIGKSTILLQTLCNLASRVPALYVTGEESQQQVAMRARRLSLPEDKLKVMTETSIETIIATARQEQPRVMVIDSIQTIFTEQLQSAPGGVAQVRESAAMLVRYAKQSGTAIFLVGHVTKEGALAGPRVLEHMVDTVLYFEGESDGRLRLLRAVKNRFGAVNELGVFGMTDKGLKEVSNPSAIFLTRAQEAVPGSVVMATWEGSRPMLVEVQALVDTSHLANPRRVTLGLDQNRLAMLLAVLHRHGGIPTYDQDVFLNVVGGVKVLETASDLALMAAVMSSLRNRPLPHDLLVFGEVGLSGEVRPVPSGQERLKEAGKHGFKRAIVPLGNAPKEAPAGLQVIAVTRLEQALDALFE |
| 299 | sp|P0C077|RELE\_ECOLI | MAYFLDFDERALKEWRKLGSTVREQLKKKLVEVLESPRIEANKLRGMPDCYKIKLRSSGYRLVYQVIDEKVVVFVISVGKRERSEVYSEAVKRIL |
| 300 | sp|Q940T5|RDUF2\_ARATH | MPSTPTTPTTTTPITASYWCYSCTRFVSVWADQGTTTVGSVACPHCDGGFIEQINDSSSAATELTIPASTEVRSINNNRRSVIRRRRSGRRPSFNPVIVLQGGAGEREEGEEGDAARDRRAFEFYYDDGSGSGLRPLPDSVSEILMGSGFERLLEQLSQIEASATGIGRSGNPPASKSAIESLPRVEISDCHIGSEANCAVCTEIFETETEAREMPCKHLFHDDCIVPWLSIRNSCPVCRFELPSEPNRRSNNNEEDNAVGMTIWRLPGGGFAVGRFNAAMRDGERVLPVVLTEMDGGGIGNSQDGPRRISWVRSHGTLESDSNGTGSGSGSGGRLRRMVRGMVSLMRRVRPNRSSSSSSAAISTSSDNLDLNIEVESRVLDRSNSVMRRYFRRNRSNRDSSSSVLH |
| 301 | sp|P77379|RCLR\_ECOLI | MDALSRLLMLNAPQGTIDKNCVLGSDWQLPHGAGELSVIRWHALTQGAAKLEMPTGEIFTLRPGNVVLLPQNSAHRLSHVDNESTCIVCGTLRLQHSARYFLTSLPETLFLAPVNHSVEYNWLREAIPFLQQESRSAMPGVDALCSQICATFFTLAVREWIAQVNTEKNILSLLLHPRLGAVIQQMLEMPGHAWTVESLASIAHMSRASFAQLFRDVSGTTPLAVLTKLRLQIAAQMFSRETLPVVVIAESVGYASESSFHKAFVREFGCTPGEYRERVRQLAP |
| 302 | sp|Q59VM4|RPN4\_CANAL | MTSLAILPQLKRTITDIMDEELYQSPSSPNSMTSFPSGTGNLMSNTNHNTFNQSNNTPFNMNYNHISNRNSINSSPNLSATTFNNANNLGNVLNIPDSFLEQLASQDYIDHLKSQQQQEQAFENPDDIYVQDVHENQVNPFNDYGNPDSFIRAQEQQSQLPQPQQPISQQDKQRPQSQQQQATKAPLPQAFPTRRRRKITLLNDIGGSSTRKKHFDEDYLLYNPDISPGHIVTDCSLDSSLVIPPNSNELFLTESESPEFANDIIPGYENDYLFLDDDDEQIEEDVSDDEGDNYFQVDEDFDDYLMNNNGYDGYPTFNNYESSGNNTDIINNNNNIVDETISDANSNSELEVVFDQPKEVSPSAISPASPDSDDMMIDVEDETEIADATAAKEEINKKHSKSGKKESKSQKENQLTTTTKSKKHSHGISGAEITLNNPNHQCNLINPSTGEPCNKQFSRPYDLIRHQDTIHASMKKIFRCVICEGRLNGGPGNGKEKTFSRGDALSRHIKIKHGLVGQDALDLINEAKENVEYIPV |
| 303 | sp|Q8RWN5|RZ1C\_ARATH | MAAKEGSRIFVGGLSPEVTDRDLERAFSRFGDILDCQIMLERDTGRSRGFGFITFADRRAMDESIREMHGRDFGDRVISVNRAEPKLGRDDGESHGSRGGRDSGYSIAGKGSFGGGGGGGGRVGEDECFKCGRVGHWARDCPSAGGGRGGPVGGFSSRASAYGGSDGRVDRYADRDRYVDRERYIDDRYDGAARYGARDRFDSREAYIPRDRYASDRYAAPADRFAGGDRYSRGSDRYPPGSYDKARSFERDIAPSAGSDRYGGGRAGGPIRGGGEEGRGFRSRAGAPYERPSRSGGGGAYPSSSTFDRY |
| 304 | sp|D0ZEW7|SBMC\_EDWTE | MQVKIESLAAQPLFALRVQGPFAQSLGPGFERLMAWSTRHGLQGQWMALYYDNPREVAPEALRADVALTTATTALPSDGEASGIRWDTLAGGLYALAQVRVIDNDFATPWVALFDQALPASGYRPDGGPCFERYLSDGRASGEWLLELGVPVRKS |
| 305 | sp|A1JN27|SBMC\_YERE8 | MAFKIIEKQPQQIVSIRVVGPYHETIPKGFDQLSSLYTQYQIPGKDWLVLYWDNPETNPPAELRADVSLSVADDYVLPPELSDHLQLQVIPAGLYAVYHTRVSDDDYAKAWGELYNQHLPQSGYRPTEGACYEVYLNDGRADGYFDIDIYQSVEKDQ |
| 306 | sp|Q7A7U6|SCDA\_STAAN | MINKNDIVADIVIDYPKAADIFRSVGIDFCCGGQVSIEAASLEKKNVDLNELLQRLNDVEQTNTPGSLNPKFLNVSSLIQYIQAAYHEPLREEFKNLTPYVTKLSKVHGPNHPYLVELKETYDTFKSGMLEHMQKEDDVDFPKLIKYEQGEVVNDINTVIDDLVSDHIATGQLLVKMSDLTSSYEPPIEACGTWRLVYQRLKALEVLTHEHVHLENHVLFKKVS |
| 307 | sp|P99098|SODM1\_STAAN | MAFELPKLPYAFDALEPHFDKETMEIHHDRHHNTYVTKLNAAVEGTDLESKSIEEIVANLDSVPANIQTAVRNNGGGHLNHSLFWELLSPNSEEKGTVVEKIKEQWGSLEEFKKEFADKAAARFGSGWAWLVVNNGQLEIVTTPNQDNPLTEGKTPILGLDVWEHAYYLKYQNKRPDYIGAFWNVVNWEKVDELYNATK |
| 308 | sp|P34707|SKN1\_CAEEL | MGGSSRRQRSTSATRRDDKRRRRQCFSSVADDEEETTSIYGVSSIFIWILATSSLILVISSPSSNTSIQSSSYDRITTKHLLDNISPTFKMYTDSNNRNFDEVNHQHQQEQDFNGQSKYDYPQFNRPMGLRWRDDQRMMEYFMSNGPVETVPVMPILTEHPPASPFGRGPSTERPTTSSRYEYSSPSLEDIDLIDVLWRSDIAGEKGTRQVAPADQYECDLQTLTEKSTVAPLTAEENARYEDLSKGFYNGFFESFNNNQYQQKHQQQQREQIKTPTLEHPTQKAELEDDLFDEDLAQLFEDVSREEGQLNQLFDNKQQHPVINNVSLSEGIVYNQANLTEMQEMRDSCNQVSISTIPTTSTAQPETLFNVTDSQTVEQWLPTEVVPNDVFPTSNYAYIGMQNDSLQAVVSNGQIDYDHSYQSTGQTPLSPLIIGSSGRQQQTQTSPGSVTVTATATQSLFDPYHSQRHSFSDCTTDSSSTCSRLSSESPRYTSESSTGTHESRFYGKLAPSSGSRYQRSSSPRSSQSSIKIARVVPLASGQRKRGRQSKDEQLASDNELPVSAFQISEMSLSELQQVLKNESLSEYQRQLIRKIRRRGKNKVAARTCRQRRTDRHDKMSHYI |
| 309 | sp|P31688|TPS2\_YEAST | MTTTAQDNSPKKRQRIINCVTQLPYKIQLGESNDDWKISATTGNSALFSSLEYLQFDSTEYEQHVVGWTGEITRTERNLFTREAKEKPQDLDDDPLYLTKEQINGLTTTLQDHMKSDKEAKTDTTQTAPVTNNVHPVWLLRKNQSRWRNYAEKVIWPTFHYILNPSNEGEQEKNWWYDYVKFNEAYAQKIGEVYRKGDIIWIHDYYLLLLPQLLRMKFNDESIIIGYFHHAPWPSNEYFRCLPRRKQILDGLVGANRICFQNESFSRHFVSSCKRLLDATAKKSKNSSNSDQYQVSVYGGDVLVDSLPIGVNTTQILKDAFTKDIDSKVLSIKQAYQNKKIIIGRDRLDSVRGVVQKLRAFETFLAMYPEWRDQVVLIQVSSPTANRNSPQTIRLEQQVNELVNSINSEYGNLNFSPVQHYYMRIPKDVYLSLLRVADLCLITSVRDGMNTTALEYVTVKSHMSNFLCYGNPLILSEFSGSSNVLKDAIVVNPWDSVAVAKSINMALKLDKEEKSNLESKLWKEVPTIQDWTNKFLSSLKEQASSNDDMERKMTPALNRPVLLENYKQAKRRLFLFDYDGTLTPIVKDPAAAIPSARLYTILQKLCADPHNQIWIISGRDQKFLNKWLGGKLPQLGLSAEHGCFMKDVSCQDWVNLTEKVDMSWQVRVNEVMEEFTTRTPGSFIERKKVALTWHYRRTVPELGEFHAKELKEKLLSFTDDFDLEVMDGKANIEVRPRFVNKGEIVKRLVWHQHGKPQDMLKGISEKLPKDEMPDFVLCLGDDFTDEDMFRQLNTIETCWKEKYPDQKNQWGNYGFYPVTVGSASKKTVAKAHLTDPQQVLETLGLLVGDVSLFQSAGTVDLDSRGHVKNSESSLKSKLASKAYVMKRSASYTGAKV |
| 310 | sp|P0AFW2|RMF\_ECOLI | MKRQKRDRLERAHQRGYQAGIAGRSKEMCPYQTLNQRSQWLGGWREAMADRVVMA |
| 311 | sp|P42814|RNS2\_ARATH | MASRLCLLLLVACIAGAFAGDVIELNRSQREFDYFALSLQWPGTYCRGTRHCCSKNACCRGSDAPTQFTIHGLWPDYNDGSWPSCCYRSDFKEKEISTLMDGLEKYWPSLSCGSPSSCNGGKGSFWGHEWEKHGTCSSPVFHDEYNYFLTTLNLYLKHNVTDVLYQAGYVASNSEKYPLGGIVTAIQNAFHITPEVVCKRDAIDEIRICFYKDFKPRDCVGSQDLTSRKSCPKYVSLPEYTPLDGEAMVLKMPTEREAL |
| 312 | sp|P06574|RPSB\_BACSU | MTQPSKTTKLTKDEVDRLISDYQTKQDEQAQETLVRVYTNLVDMLAKKYSKGKSFHEDLRQVGMIGLLGAIKRYDPVVGKSFEAFAIPTIIGEIKRFLRDKTWSVHVPRRIKELGPRIKMAVDQLTTETQRSPKVEEIAEFLDVSEEEVLETMEMGKSYQALSVDHSIEADSDGSTVTILDIVGSQEDGYERVNQQLMLQSVLHVLSDREKQIIDLTYIQNKSQKETGDILGISQMHVSRLQRKAVKKLREALIEDPSMELM |
| 313 | sp|P0A213|SBMC\_SALTI | MDYEIRQEQKRKIAGFHMVGPWEHTVKQGFEQLMTWVDRQRIVPVEWIAVYYDNPDVVPAEKLRCDTVVSVAENFILPDNSEGVIVTAIEGGEYATAVARVEDRDFAKPWERFFDVLEQDSAYQIASAPCFETYLNNGMEDGYWDIEMYIPVQRK |
| 314 | sp|P0CU40|SAHS2\_HYPDU | MARLFVAVALFGVVAFAAAEKEWTGKTWLGSWASTDRAENWEAFVDALGLPSDQYPREVQRTIHTIYKQGDKYHHEVSIPSKNFKKAIEYTLGTETDVQHGPHTIKLKYTEDGEKLVADVQIPSKNKQIHDIYEVQGDTLTKTYKVGDVVAKRWFTREANPTA |
| 315 | sp|P19324|SERPH\_MOUSE | MRSLLLGTLCLLAVALAAEVKKPLEAAAPGTAEKLSSKATTLAERSTGLAFSLYQAMAKDQAVENILLSPLVVASSLGLVSLGGKATTASQAKAVLSAEKLRDEEVHTGLGELLRSLSNSTARNVTWKLGSRLYGPSSVSFADDFVRSSKQHYNCEHSKINFRDKRSALQSINEWASQTTDGKLPEVTKDVERTDGALLVNAMFFKPHWDEKFHHKMVDNRGFMVTRSYTVGVTMMHRTGLYNYYDDEKEKLQMVEMPLAHKLSSLIILMPHHVEPLERLEKLLTKEQLKAWMGKMQKKAVAISLPKGVVEVTHDLQKHLAGLGLTEAIDKNKADLSRMSGKKDLYLASVFHATAFEWDTEGNPFDQDIYGREELRSPKLFYADHPFIFLVRDNQSGSLLFIGRLVRPKGDKMRDEL |
| 316 | sp|C4Y1G1|SHO1\_CLAL4 | MGFRMANFLGDPFAISTVSFGVIAWIVAIAGAGSSASDNFPRFTWWGLVYEILLIIMVFLLYLNNTIELYKFTLVGLLSVGFLYTTNSTNNLIYSSNSGNLCCAAGCILLSMLNFLWIVYFGGHPESPSNQFIDSFAMKSSYAQQLPSEKNDDHEFAVPRSASGSQGFGVSDSRHSQLTNSKSGYMSSSQLNGLENFSHTNVQNTGTVGASNPASMPNTVYNTNGTNTADSNFAVPVSTFRYKARALYSYDASPDDINEISFVKDEILEVDDIDGKWWQARRANGQVGICPSNYVKLLD |
| 317 | sp|C5DE38|SHO1\_LACTC | MAVPNRVEAKQMRDHPHRIHEFRLANLVTDPFAISSLSLALIAWIIAFAGSVVAASNSKKYPAFSWWGIVYQILLMVLVLILYCYDLIDYYKSFLSGALAVAFVYTTNSAAEMLYQDGSRMGAASAGVILLSMINIIWMFYFGSDNASPSNRWIDSYSLRGIRHSVLESSIAMSSRPPLVSRNVSKYSASPQMDLYNATPAPHSQGFYPDTHSQHYVSSTALNGFENAGPPTAPALHGNMGHGNNTSTFVTDTTNGNTETTMGDTLGLYSDAGDELTSFPYVAKALYTYTADSNDAYEVSFEQGEMLRVGDIEGRWWKAKRANGETGIIPSNYVELVGENSI |
| 318 | sp|Q55025|SRPA\_SYNE7 | MIRIRNRWFRWLAIALASLVASIGIATVGFAATGVTPDQVLSAIEGTFGVNVGQRRNHIKGTCAVGNFVATTEAKTYSRSPLFSGQSIPVVARFSLAGGNPKAPDTAKNPRGLGLQFQLPNNRFLNMALLNTPVFGVASPEGFYENILAIRPDPTTGKPDPEKVKAFREKYPENKAQAAFLASNNPPTSYANTSYFGLHAFKFINQTNQTRLVRWQFVPQDGEKRLTDAELQAAPANFLEQKLIERTQDSPVKWDFWITLGQPGDAEDNPTIAWPSDRQQVKVGTLTLTAASPQPGAACEGINYDPLVLSDGIEPTNDPVLQFRSGVYALSYSKRTRGL |
| 319 | sp|P50156|TIP11\_ORYSJ | MPIRNIAVGSHQEVYHPGALKAALAEFISTLIFVFAGQGSGMAFSKLTGGGATTPAGLIAAAVAHAFALFVAVSVGANISGGHVNPAVTFGAFVGGNITLFRGLLYWIAQLLGSTVACFLLRFSTGGLATGTFGLTGVSVWEALVLEIVMTFGLVYTVYATAVDPKKGSLGTIAPIAIGFIVGANILVGGAFDGASMNPAVSFGPALVSWSWESQWVYWVGPLIGGGLAGVIYEVLFISHTHEQLPTTDY |
| 320 | sp|Q6ZGP8|TPP4\_ORYSJ | MTNQDVVVSEMGIAAGAALPGGPAGPAGGLFACRSAAASMRQTYLDLAAAAVAARSASCTSWADAMRASSPTRSSRSASDVDEFTAWVRKHPSALSKFEEIAAKSRGKKIVMFMDYDGTLSPIVADPDTAYMSDAMRAAVREVAKTFPTAIVSGRCRDKVRNFVGLSDLYYAGSHGMDIKGPSSNPESALCQPASEFLPMIDEVYKTLVEKTKSTPGAKVENNKFCLSVHFRCVDEKRWNALGEQVKAVIKEYPKLKLTQGRKVLEIRPSIEWDKGKALEFLLESLGFANCGDVMPVYIGDDRTDEDAFKVLRKRGQGLGILVSKCPKDTNASYSLQDPTEVMEFLLRLVEWKRKSSSSSLMIRPRV |
| 321 | sp|Q4MQ55|TPIS\_BACCE | MRKPIIAGNWKMNKTLSEAVSFVEEVKGQIPAASAVDAVVCSPALFLERLVAATEGTDLQVGAQNMHFEKNGAFTGEISPVALSDLKVGYVVLGHSERREMFAETDESVNKKTIAAFEHGLTPIVCCGETLEERESGKTFDLVAGQVTKALAGLTEEQVKATVIAYEPIWAIGTGKSSSSADANEVCAHIRKVVAEAVSPEAAEAVRIQYGGSVKPENIKEYMAQSDIDGALVGGASLEPASFLGLLGAVK |
| 322 | sp|Q6ZAL2|TPP6\_ORYSJ | MTKQSVVVPEVAVPMPPNSAPLLPYPPPRAAPGVAVRKKYLQAQLDLGAGLPLINGWVESMRASSPTHAKAAAALAAAGAVDDERAAWMVRHPSALSKFEQIVAASKGKKIVMFLDYDGTLSPIVDDPDSAFMSDTMRRAVRSVAKHFPTAIVSGRCRDKVFEFVKLAELYYAGSHGMDIKGPAKASRHNKAKAKGVLFQPASEFLPMIEQVHDSLIERTKCIPGAKVENNKFCVSVHFRCVDEKSWSTLADIVKAELKDYPKLKLTQGRMVFEIRPTIKWDKGKALEFLLESLGFADCTNVLPVYIGDDRTDEDAFKVLRKRGQGIGILVSKYPKDTNASYSLQEPAEVMEFLLRLVEWERLSRARPKW |
| 323 | sp|Q1RJR7|RADA\_RICBR | MTKEKKHYICSNCGNTSPKWSGQCFDCGVWGSIIEEKVISNKNIAKIGSKQDFEQLSSNVTDQVRISTPIGELDRVLGGGLVLGSAILIGGDPGIGKSTLLLQLVAGSFASKVKCLYITGEESLDQIKLRALRLDLVNDKTNILAANNLEDIIASLEANKGNIDLVVIDSIQTIATRELTSPPGTVSQIRTCAHELVNYAKQNNIIILLSCHVTKDGQLAGPKLLEHLVDTVLYFEGDHNNHFRILRSYKNRFGGVGEIGVFEMSSSGLIEVTNPSELFLMKREQNVIGTAIFAGIEGSRPLLMEVQALIVPSNMVTPRRSAVGWDVNRLSMILAVLSSRIGLNLANYEVYLSIAGGLKINEPASDLAVAASLISAATNKPLPEHSVFFGEISLSGEIRKTAKAEARIKEALKLGFNNIICSKSENLTHDFISSIAHLKDLKLLLGSS |
| 324 | sp|P37572|RADA\_BACSU | MAKTKSKFICQSCGYESPKWMGKCPGCGAWNTMVEEMIKKAPANRRAAFSHSVQTVQKPSPITSIETSEEPRVKTQLGEFNRVLGGGVVKGSLVLIGGDPGIGKSTLLLQVSAQLSGSSNSVLYISGEESVKQTKLRADRLGINNPSLHVLSETDMEYISSAIQEMNPSFVVVDSIQTVYQSDITSAPGSVSQVRECTAELMKIAKTKGIPIFIVGHVTKEGSIAGPRLLEHMVDTVLYFEGERHHTFRILRAVKNRFGSTNEMGIFEMREEGLTEVLNPSEIFLEERSAGSAGSSITASMEGTRPILVEIQALISPTSFGNPRRMATGIDHNRVSLLMAVLEKRVGLLLQNQDAYLKVAGGVKLDEPAIDLAIVISIASSFRDTPPNPADCFIGEVGLTGEVRRVSRIEQRVKEAAKLGFKRMIIPAANLDGWTKPKGIEVIGVANVAEALRTSLGG |
| 325 | sp|P50512|RPOH\_ZYMMO | MATSSTLPAVVPALGGDQSLNHYLADIRKFPILKPEEEYMLAKRFQEHQDPKAASRLVTSHLRLVAKIAMGYRGYGLPVSELISEGNIGLMQGVKKFDPERGFRLATYAIWWIKASIQEYILRSWSLVKMGTTAAQKKLFFNLRRLKSNMNAFEDGDLKPDEVDSIATNLGVSNEEVVNMNRRMAMGGDSSLNITMREDGEGQMQDWLVDQEPLQDQQIEEEEESLVRHKLLIEAMDKLNDREKHILTERRLSDNPKTLEELSQVYGVSRERVRQIEVRAFDKLQKAIMELAGDRKLLPAMA |
| 326 | sp|E3G128|SBMC\_ENTLS | MEYSIRQEQQRVVAGFHMVGPWEQTVKQGFEQLMMWVDGRDIPAKEWLAVYYDNPDEVPAEKLRCDTVVTVEPGFQIPANSEGVMLTQVSGGEYAVASARVVNHDFATPWYQFFGSVLADTAWEMAAKPCFERYLNDGNQDGYWDIEMYIAVSRRAG |
| 327 | sp|Q5RDV5|SIN1\_PONAB | MAFLDNPTIILAHIRQSHVTSDDTGMCEMVLIDHDVDLEKIHPPSMPGDSGSEIQGSNGETQGYVYAQSVDITSSWDFGIRRRSNTAQRLERLRKERQNQIKCKNIQWKERNSKQSAQELKSLFEKKSLKEKPPISGKQSILSVRLEQCPLQLNNPFNEYSKFDGKGHVGTTATKKIDVYLPLHSSQDRLLPMTVVTMASARVQDLIGLICWQYTSEGREPKLNDNVSAYCLHIAEDDGEVDTDFPPLDSNEPIHKFGFSTLALVEKYSSPGLTSKESLFVRINAAHGFSLIQVDNTKVTMKEILLKAVKRRKGSQKVSGPQYRLEKQSEPNVAVDLDSTLESQSAWEFCQVRENSSRADGVFEEDSQIDIATVQDMLSSHHYKSFKVSMIHRLRFTTDVQLGISGDKVEIDPVTNQKASTKFWIKQKPISIDSDLLCACDLAEEKSPSHAIFKLTYLSNHDYKHLYFESDAATVNEIVLKVNYILESRASTARADYFAQKQRKLNRRTSFSFQKEKKSGQQ |
| 328 | sp|B3LRN4|SHO1\_YEAS1 | MSISSKIRPTPRKPSRMATDHSFKMKNFYADPFAISSISLAIVSWVIAIGGSISSASTNESFPRFTWWGIVYQFLIICSLMLFYCFDLVDHYRIFITTSIAVAFVYNTNSATNLVYADGPKKAAASAGVILLSIINLVWILYYGGDNASPTNRWIDSFSIKGIRPSPLENSLHRARRRGNRNTTPYQNNVYNDAIRDSGYATQFDGYPQQQPSHTNYVSSTALAGFENTQPNTSEAVNLHLNTLQQRINSASNAKETNDNSNNQTNTNIGNTFDTDFSNGNTETTMGDTLGLYSDIGDDNFIYKAKALYPYDADDDDAYEISFEQNEILQVSDIEGRWWKARRANGETGIIPSNYVQLIDGPEEMHR |
| 329 | sp|P81082|SODCP\_PINPS | HAGDLGNIVAGSDGV |
| 330 | sp|P15705|STI1\_YEAST | MSLTADEYKQQGNAAFTAKDYDKAIELFTKAIEVSETPNHVLYSNRSACYTSLKKFSDALNDANECVKINPSWSKGYNRLGAAHLGLGDLDEAESNYKKALELDASNKAAKEGLDQVHRTQQARQAQPDLGLTQLFADPNLIENLKKNPKTSEMMKDPQLVAKLIGYKQNPQAIGQDLFTDPRLMTIMATLMGVDLNMDDINQSNSMPKEPETSKSTEQKKDAEPQSDSTTSKENSSKAPQKEESKESEPMEVDEDDSKIEADKEKAEGNKFYKARQFDEAIEHYNKAWELHKDITYLNNRAAAEYEKGEYETAISTLNDAVEQGREMRADYKVISKSFARIGNAYHKLGDLKKTIEYYQKSLTEHRTADILTKLRNAEKELKKAEAEAYVNPEKAEEARLEGKEYFTKSDWPNAVKAYTEMIKRAPEDARGYSNRAAALAKLMSFPEAIADCNKAIEKDPNFVRAYIRKATAQIAVKEYASALETLDAARTKDAEVNNGSSAREIDQLYYKASQQRFQPGTSNETPEETYQRAMKDPEVAAIMQDPVMQSILQQAQQNPAALQEHMKNPEVFKKIQTLIAAGIIRTGR |
| 331 | sp|Q9SAB3|RB45B\_ARATH | MMQQPPPGGILPHHAPPPSAQQQYGYQQPYGIAGAAPPPPQMWNPQAAAPPSVQPTTADEIRTLWIGDLQYWMDENFLYGCFAHTGEMVSAKVIRNKQTGQVEGYGFIEFASHAAAERVLQTFNNAPIPSFPDQLFRLNWASLSSGDKRDDSPDYTIFVGDLAADVTDYILLETFRASYPSVKGAKVVIDRVTGRTKGYGFVRFSDESEQIRAMTEMNGVPCSTRPMRIGPAASKKGVTGQRDSYQSSAAGVTTDNDPNNTTVFVGGLDASVTDDHLKNVFSQYGEIVHVKIPAGKRCGFVQFSEKSCAEEALRMLNGVQLGGTTVRLSWGRSPSNKQSGDPSQFYYGGYGQGQEQYGYTMPQDPNAYYGGYSGGGYSGGYQQTPQAGQQPPQQPPQQQQVGFSY |
| 332 | sp|Q6ZFH6|RCN11\_ORYSJ | MMPVRTYHHHHHHNNSNNHRLRRIIPRVLLAVFAIYAVSFAAYLLRHQSPHPHPHPAADPERDAVDAAGGGGGGGAVDRVRVEAPSSQKPWPRLPSFLPWTSASVRPPPKHSCEGYFGNGFSRLVDVLPARGGGGGGWFRCHHSETLRSSICEGGRVRLDPGLIAMSRGGEPLDQVMGRAEEEELPKYEPGALQVEAAAKRTGPLVEAGFLDAYVPTGGIGMHTMRSLLDSGRVVPPGELHCSQWVEEPTLLVTRFEYANLFHTITDWYSAYVSSRVTDLPNRPNVVFVDGHCKAQLEQTWEALFSNVTYVKNFSGPVCFRHAILSPLGYETALFKGLSESFSCEGASAESLREKPDHQKTARLSEFGEMILASFDLLRDDILSSKTSNGLNVLFVRREDYLAHPRHSGKVESRLSNEKEVYDAIEGWAKGQKCKINVINGLFAHMNMKEQLRAIQEASVVIGAHGAGLTHLVSATPDTKVLEIISSMYRRPHFALISHWKSLEYHAINLPGSYARVTDVINELSNILKGFGC |
| 333 | sp|Q9AST8|ROSY1\_ARATH | MAISHTQLLLLLLVSLFFSPALCGPKFQTCDTGKEYPLKVSSVEISPDPVKRSGNGEITITGVTNKEISDGVTVNLKLAVGMFPVSTKSYSLCDITACPVAPGPIVLTLPNIFTPREKRTAIGYTIIISITDKPLKESMMCILFVVKLTGHASMINQVTE |
| 334 | sp|O64644|SAP18\_ARATH | MAEAARRQGGGRPLPPPPRGVNQQPPRPKPEPVDREKTCPLLLRVFTKSGGHHTSEDYAVRGKEPKDEVQIYTWKDASLRELTDLVKEVSVAARRRNARLSFAFVYPNNKGGYNVREVGETMAYPNRKQPDDSKTLSELPFEIGDYLDVAIY |
| 335 | sp|Q852K5|SAP6\_ORYSJ | MAQESWKKEAEETGVHTPEAPILCVNNCGFFGSRMTENMCSKCYRDTVKAKTVATVVEKKPLASLSSTPLVTEVTDGGSGSVADGKQVMEEDTPKPPSNRCLSCRKKVGLTGFKCRCGGTFCSMHRYADSHKCTFDYKQVGREQIAKQNPLVKADKITKI |
| 336 | sp|C5BHP3|SBMC\_EDWI9 | MQVRIVSLAAQPLFVLRVQGPFAQSLGPGFERLMAWSARHGLRGQWMALYYDNPREVAPDALRADVALTTASVTLPSDGEAYGIRRGALAGGLYALAQVRVTDNDFATPWIALFDQALPACGYRPDGGPCFERYLSDGRGSGEWLLELGVPVRKN |
| 337 | sp|P0CU41|SAHS3\_HYPDU | MSRTIVALILLGLAALAAADHHEGHGAEKEWAGKAWLGKWVSTDRSENWDAFVEALGLPLAAYGGNHKTVHKLWKEGDHYHHQIIIADKSYKQDIQFKLGEEGRTAHNGTEVTFKYTEVGDNLQNEVKIPSKNKTISDSYVVKGDELEKTYKINDVVAKRWYKKHAHEPSTA |
| 338 | sp|Q93WF6|SAG21\_ARATH | MARSISNVKIVSAFVSRELSNAIFRRGYAATAAQGSVSSGGRSGAVASAVMKKKGVEESTQKISWVPDPKTGYYRPETGSNEIDAAELRAALLNNKQ |
| 339 | sp|Q32FX5|SAFA\_SHIDS | MHATTVKNKITQRDNYKGIMSVIVVVLLLTLTLIAIFSAIDQLGISEMGRIARDLTHFIINSLQD |
| 340 | sp|Q751J2|SHO1\_ASHGO | MTLRATKARQQRVSPHIGHTFSFGNLVGDPFAISTLSISTIAWLITLGGGIATKKMPHFSWWGIAFQFVMMVCFVVIYLWDLVDYYRGFLAAGVGVAFVYSTNSCSQLIYQEEPQQAAGSAGFMMLSIVNMIWMFYFGADNAAPANRWIDSFSIRGIRASQVESSLALARSQKAVASPQPAATAFYGGLEGHSQKYVSSTALNGFENTDPHTSTAFALGPEGPTQRNLDTHGTSTYVTDTTNGNTETTMGDTLGLYSDMGDELVNFPYTAKALYAYEADASDAYEISFQQGEILRVGDIEGRWWKAKKANGETGIIPSNYVELVDDPAAL |
| 341 | sp|E7KMS3|SHO1\_YEASL | MSISSKIRPTPRKPSRMATDHSFKMKNFYADPFAISSISLAIVSWVIAIGGSISSASTNESFPRFTWWGIVYQFLIICSLMLFYCFDLVDHYRIFITTSIAVAFVYNTNSATNLVYADGPKKAAASAGVILLSIINLIWILYYGGDNASPTNRWIDSFSIKGIRPSPLENSLHRARRRGNRNTTPYQNNVYNDAIRDSGYATQFDGYPQQQPSHTNYVSSTALAGFENTQPNTSEAVNLHLNTLQQRINSASNAKETNDNSNNQTNTNIGNTFDTDFSNGNTETTMGDTLGLYSDIGDDNFIYKAKALYPYDADDDDAYEISFEQNEILQVSDIEGRWWKARRANGETGIIPSNYVQLIDGPEEMHR |
| 342 | sp|Q5HFK7|SODM1\_STAAC | MAFELPKLPYAFDALEPHFDKETMEIHHDRHHNTYVTKLNAAVEGTDLESKSIEEIVANLDSVPANIQTAVRNNGGGHLNHSLFWELLSPNSEEKGTVVEKIKEQWGSLEEFKKEFADKAAARFGSGWAWLVVNNGQLEIVTTPNQDNPLTEGKTPILGLDVWEHAYYLKYQNKRPDYIGAFWNVVNWEKVDELYNATK |
| 343 | sp|Q9XI00|SKI32\_ARATH | MTSDALTIPSELESALRLRTVQYFITKRPWLDLYGVHVRPVPPFGSTSRKPHFDPALIHRCLPDELLFEVFARMMPYDLGRASCVCRKWRYTVRNPMFWRNACLKAWQTAGVIENYKILQSKYDGSWRKMWLLRSRVRTDGLYVSRNTYIRAGIAEWKITNPVHIVCYYRYIRFYPSGRFLYKNSSQKLKDVAKYMNFKASKSENLYKGTYTLSMSDDKIEAAVLYPGTRPTVLRIRLRLRGTAIGANNRMDLLSLVTSGVNDEEISSTEEDILGLVEGWEDDETHNPDIPAVSHKRGMTAFVFVPFEEVDESVLNLPPEKMDYYVTG |
| 344 | sp|Q5PKB8|SRKA\_SALPA | MNDNAFTFQTLHPETIMDALFEQGIRVDSGLTPLNSYENRVYQFQDEDRRRFVVKFYRPERWSVDQIREEHQFALELVKDEVPVAAPLAFNGQTLLAHQGYHYAIFPSVGGRQFEADNIDQMEAVGRYLGRLHQTGRKRPFTFRPDIGLAEYLFEPRQVFEDAALIPSGQKAAFLKATDTLLSAVTECWRTDFATLRLHGDCHAGNILWRDGPLFVDLDDARNGPAIQDLWMLLNGNKAEQRMQLETIIEAYEEVSEFDTAEIGLIEPLRAMRLVYYLAWLIRRWGDPAFPKNFPWLTGEDYWQRQTTTFIEQTKILHEPPLQLTPMY |
| 345 | sp|P28488|THSB\_SACSH | MATATVATTPEGIPVIILKEGSSRTYGKEALRANIAAVKAIEEALKSTYGPRGMDKMFVDSLGDITITNDGATILDKMDLQHPTGKLLVQIAKGQDEETADGTKTAVILAGELAKKAEDLLYKEIHPTIIVSGYKKAEEIALKTIQDIAQPVSINDTDVLRKVALTSLGSKAVAGAREYLADLVVKAVAQVAELRGDKWYVDLDNVQIVKKHGGSINDTQLVYGIVVDKEVVHPGMPKRIENAKIALLDASLEVEKPELDAEIRINDPTQMHKFLEEEENILKEKVDKIAATGANVVICQKGIDEVAQHYLAKKGILAVRRAKKSDLEKLARATGGRVISNIDELTSQDLGYAALVEERKVGEDKMVFVEGAKNPKSVSILIRGGLERVVDETERALRDALGTVADVIRDGRAVAGGGAVEIEIAKRLRKYAPQVGGKEQLAIEAYANAIEGLIMILAENAGLDPIDKLMQLRSLHENETNKWYGLNLFTGNPEDMWKLGVIEPALVKMNAIKAATEAVTLVLRIDDIVAAGKKGGSEPGGKKEKEEKSSED |
| 346 | sp|Q9FY68|PUMP6\_ARATH | MGFKPFLEGGIAAIIAGALTHPLDLIKVRMQLQGEHSFSLDQNPNPNLSLDHNLPVKPYRPVFALDSLIGSISLLPLHIHAPSSSTRSVMTPFAVGAHIVKTEGPAALFSGVSATILRQMLYSATRMGIYDFLKRRWTDQLTGNFPLVTKITAGLIAGAVGSVVGNPADVAMVRMQADGSLPLNRRRNYKSVVDAIDRIARQEGVSSLWRGSWLTVNRAMIVTASQLATYDHVKEILVAGGRGTPGGIGTHVAASFAAGIVAAVASNPIDVVKTRMMNADKEIYGGPLDCAVKMVAEEGPMALYKGLVPTATRQGPFTMILFLTLEQVRGLLKDVKF |
| 347 | sp|P74391|RADA\_SYNY3 | MAKARTKFVCSACGADHAQWFGRCPKCHEYGSLQEEIVNAVSSGTNHRSLGAQKSRSSKVKTGQPQAALTFSQIRQENQGRFLSGYGELDRVLGGGIVPGALILIGGDPGIGKSTLLLQVAFQLATRLPRILYVSAEESGQQIKLRATRLGITQTVEPSQAQDGINNLAHDGNLFVLPETNLDDILRELEALQPQVAIIDSIQNLYFPALSSAPGSVSQVRECTGLLMQLAKRDHISLFIVGHVTKEGAIAGPKVLEHLVDTVLYFQGDRFASHRLLRSVKNRFGATQEIGIFEMVQSGLQEVLNPSQLFLGSREEFMSGTAITVACEGTRPLVVELQALVSPTSYASPRRSTTGVDYNRLLQVLAVLEKRLGVPLSKLDAYLSVAGGLEVEEPAVDLAMAIALVASFRDRVVDPTMIILGEIGLGGQIRPVSQLEIRLKEAAKLGFKKAIVPKGQTGIESAGIKLIPVGKVFAAIAVALPANENTTDQGNGSEAKIEEDLGKKD |
| 348 | sp|O04005|REHY\_ARATH | MPGITLGDTVPNLEVETTHDKFKLHDYFANSWTVLFSHPGDFTPVCTTELGAMAKYAHEFDKRGVKLLGLSCDDVQSHKDWIKDIEAFNHGSKVNYPIIADPNKEIIPQLNMIDPIENGPSRALHIVGPDSKIKLSFLYPSTTGRNMDEVLRALDSLLMASKHNNKIATPVNWKPDQPVVISPAVSDEEAKKMFPQGFKTADLPSKKGYLRHTEVS |
| 349 | sp|Q93ZY2|ROGF1\_ARATH | MGSLSSEEDDEVSSERCGSYSPSADISESESSSSFSCHRFDGEGASSSIPSSPRVVAGRGFYFPAPVMLPVIGGKDVVWDDKQPDNDLSEIEMMKERFAKLLLGEDMSGGGKGVCTALAISNAITNLSATVFGELWRLEPLAPQKKAMWRRELEWLLCVSDSIVELIPSIQQFPGGGTYEIMETRPRSDLYANLPALKKLDAMLIDMLDAFSDTEFWYTDRGIVLGDCDKDSYNSPASVRQEDKWWLPCPKVPPNGLSEEARKKLQQCRDFANQILKAALAINSGVLAEMEIPDPYLETLPKSGKECLGEIIYQYLTANKFSPECLLDCLDLSSEHQTLEIANRIEAAVHVWRQKNGRRHKKQAKLKLSSWGGKVKGLVNDNERNDFLVQRAETLLQSLRIRFPGLPQTTLDMNKIQYNKDVGQSILESYSRVMESMAFNITARIDDVLYVDDAMRRSISVTESLSLFSINGLNPQKAFSVQSSPHGSPFATPALSVASRSPRRAPPLYSVKRNGTREKGIVGETEKAWSYAGNLSSRRVTGVTPERD |
| 350 | sp|Q852K6|SAP7\_ORYSJ | MASMKRKCPDDETACGSGAGAAMCVTGCGFFGSEATNNMCSRCYREHSADNDAVEEAAAANSDLELVGVAETTTKKARMSAVVPVAVASSSSAAAEQPAAKAATAPNRCAACRKKVGLTGFKCRCGGNFCGGHRHADAHGCGFDYKSAGKEQIAKQNPLVVADKLATRI |
| 351 | sp|P0C282|SAP18\_ORYSJ | MAGSKMQAGDGGGAAMCAAGCGFFGSAATGGLCSKCYKEQQPQPRHHISSAPPPGTATKWWTRTFDDKSSHGKINDNNINFLNKTNSQTLVKKSTASYIKIRKKYMNVDNARNSYNMKRRKYELVRLSSALGTTPKTARNNRIHERGAQALGIEGVRAFTLVGWHLLPTNEQAEHGDHLPIIPIVEAANRNVWTLGRGASE |
| 352 | sp|Q5N942|SAPK4\_ORYSJ | MEKYEAVRDIGSGNFGVARLMRNRETRELVAVKCIERGHRIDENVYREIINHRSLRHPNIIRFKEVILTPTHLMIVMEFAAGGELFDRICDRGRFSEDEARYFFQQLICGVSYCHHMQICHRDLKLENVLLDGSPAPRLKICDFGYSKSSVLHSRPKSAVGTPAYIAPEVLSRREYDGKLADVWSCGVTLYVMLVGAYPFEDQDDPKNIRKTIQRIMSVQYKIPDYVHISAECKQLIARIFVNNPLRRITMKEIKSHPWFLKNLPRELTETAQAMYYRRDNSVPSFSDQTSEEIMKIVQEARTMPKSSRTGYWSDAGSDEEEKEEEERPEENEEEEEDEYDKRVKEVHASGELRMSSLRI |
| 353 | sp|A2YNT8|SAPK2\_ORYSI | MERYEVIKDIGSGNFGVAKLVRDVRTKELFAVKFIERGQKIDENVQREIMNHRSLRHPNIVRFKEVVLTPTHLAIVMEYAAGGELFERICSAGRFSEDEARFFFQQLISGVSYCHSMQICHRDLKLENTLLDGSIAPRLKICDFGYSKSSVLHSQPKSTVGTPAYIAPEVLARKEYDGKVADVWSCGVTLYVMLVGAYPFEDPDEPRNFRKTITRILSVQYMVPDYVRVSMECRHLLSRIFVANPEQRITIPEIKNHPWFLKNLPIEMTDEYQMSVQMNDINTPSQGLEEIMAIIQEARKPGDGSKFSGQIPGLGSMELDDIDTDDIDVEDSGDFVCAL |
| 354 | sp|Q9FMS4|SIED1\_ARATH | MNQEAASNLGLDLKLNISPSLDSSLLTESSSSSLCSEEAEGGGGEAKSMVVVGCPNCIMYIITSLENDPRCPRCNSHVLLDFLTGNHSKKSTS |
| 355 | sp|Q4R633|SGK1\_MACFA | MTVKTEAAKGTLTYSRMRGMVAILIAFMKQRRMGLNDFIQKIANNSYACKHPEVQSILKISQPQEPELMNANPSPPPSPSQQINLGPSSNPHAKPSDFHFLKVIGKGSFGKVLLARHKAEEVFYAVKVLQKKAILKKKEEKHIMSERNVLLKNVKHPFLVGLHFSFQTADKLYFVLDYINGGELFYHLQRERCFLEPRARFYAAEIASALGYLHSLNIVYRDLKPENILLDSQGHIVLTDFGLCKENIEHNSTTSTFCGTPEYLAPEVLHKQPYDRTVDWWCLGAVLYEMLYGLPPFYSRNTAEMYDNILNKPLQLKPNITNSARHLLEGLLQKDRMKRLGAKDDFMEIKSHVFFSLINWDDLINKKITPPFNPNVSGPNDLRHFDPEFTEEPVPNSIGKSPDSILVTASVKEAAETFLGFSYAPPTDSFL |
| 356 | sp|Q7SGL6|SHO1\_NEUCR | MQSYGGSVNYPPSFNNPKMEHGRNSYRRKGIDMGNIIGDPFALATTSIATLSWIIILFGSIFGFRDQNDGSNGAPVIVWPTYSWFTLVFNFFLILGIFIVIASDSAQTYHVAIVGYLAVGLVGSTSSINNLIYSGVASMEATAAGYILLSMVTIIWIFYFGSAPSAVPRAYIDSFALTKESTLPAHHMSRQTMNHNGLSSPNAYGSYNMRPETSASGLQPPQMYTGQLNGLENPARQSQIPQGFSSNNIPKPQGEGEIVPPTEYPYRAKAIFSYEANPDDANEISFSKHEVLEISDVSGRWWQARKENGETGIAPSNYLILL |
| 357 | sp|P9WGH8|SIGH\_MYCTO | MADIDGVTGSAGLQPGPSEETDEELTARFERDAIPLLDQLYGGALRMTRNPADAEDLLQETMVKAYAGFRSFRHGTNLKAWLYRILTNTYINSYRKKQRQPAEYPTEQITDWQLASNAEHSSTGLRSAEVEALEALPDTEIKEALQALPEEFRMAVYYADVEGFPYKEIAEIMDTPIGTVMSRLHRGRRQLRGLLADVARDRGFARGEQAHEGVSS |
| 358 | sp|Q10LI1|SRFP1\_ORYSJ | MELDDASRHGFGRMGFGCKHYRRRCRIRAPCCNDVFHCRHCHNESTKDGHELDRHAVESVICLVCDTEQPVAQVCYNCGVCMGEYFCSACKFFDDDVDREHFHCQDCGICRVGGKDNFFHCEKCGSCYSVSLRDKHCCIENSMKNNCPICYEYLFDSLRETSVLRCGHTMHLQCFHEMLKHDKFSCPICSMPIFDMDKFLRALDAEIEANMLHIDYMGKGWIVCNDCRDTTQVYARVAGHKCCHCQSHNTCRVAAPVLPA |
| 359 | sp|Q6GCZ1|SODM2\_STAAS | MAFKLPNLPYAYDALEPYIDQRTMEFHHDKHHNTYVTKLNATVEGTELEHQSLADMIANLDKVPEAMRMSVRNNGGGHFNHSLFWEILSPNSEEKGGVIDDIKAQWGTLDEFKNEFANKATTLFGSGWTWLVVNDGKLEIVTTPNQDNPLTEGKTPILLFDVWEHAYYLKYQNKRPDYMTAFWNIVNWKKVDELYQAAK |
| 360 | sp|Q9FY46|SUT41\_ARATH | MSYASLSVKDLTSLVSRSGTGSSSSLKPPGQTRPVKVIPLQHPDTSNEARPPSIPFDDIFSGWTAKIKRMRLVDWIDTLFPCFRWIRTYRWSEYFKLDLMAGITVGIMLVPQAMSYAKLAGLPPIYGLYSSFVPVFVYAIFGSSRQLAIGPVALVSLLVSNALGGIADTNEELHIELAILLALLVGILECIMGLLRLGWLIRFISHSVISGFTSASAIVIGLSQIKYFLGYSIARSSKIVPIVESIIAGADKFQWPPFVMGSLILVILQVMKHVGKAKKELQFLRAAAPLTGIVLGTTIAKVFHPPSISLVGEIPQGLPTFSFPRSFDHAKTLLPTSALITGVAILESVGIAKALAAKNRYELDSNSELFGLGVANILGSLFSAYPATGSFSRSAVNNESEAKTGLSGLITGIIIGCSLLFLTPMFKYIPQCALAAIVISAVSGLVDYDEAIFLWRVDKRDFSLWTITSTITLFFGIEIGVLVGVGFSLAFVIHESANPHIAVLGRLPGTTVYRNIKQYPEAYTYNGIVIVRIDSPIYFANISYIKDRLREYEVAVDKYTNRGLEVDRINFVILEMSPVTHIDSSAVEALKELYQEYKTRDIQLAISNPNKDVHLTIARSGMVELVGKEWFFVRVHDAVQVCLQYVQSSNLEDKHLSFTRRYGGSNNNSSSSNALLKEPLLSVEK |
| 361 | sp|Q67XC9|TPPD\_ARATH | MTNHNALISDAKGSIGVAVRVPNQSLFSPGGGRYISIPRKKLVQKLEADPSQTRIHTWIEAMRASSPTRTRPGNISPLPESDEEDEYSSWMAQHPSALTMFEEIAEASKGKQIVMFLDYDGTLSPIVENPDRAYMSEEMREAVKGVARYFPTAIVTGRCRDKVRRFVKLPGLYYAGSHGMDIKGPSKRNKHNKNNKGVLFQAANEFLPMIDKVSKCLVEKMRDIEGANVENNKFCVSVHYRCVDQKDWGLVAEHVTSILSEYPKLRLTQGRKVLEIRPTIKWDKGKALEFLLESLGFANSNDVLPIYIGDDRTDEDAFKVLRNKGQGFGILVSKIPKETSATYSLQEPSEVGEFLQRLVEWKQMSLRGR |
| 362 | sp|Q5HZ05|TPPJ\_ARATH | MVSQNVVVSDAKTGIITVSTVSNSSVFTPTAQKPPTAPGYISVSKKKLLKNLEINGADQSQRLNSWVDSMRASSPTHLKSLSSFSSEEEHNSWIKRHPSALNMFERIIEEARGKQIVMFLDYDGTLSPIVDDPDRAFMTSKMRRTVKKMAKCFPTSIVTGRCIDKVYSFVKLAELYYAGSHGMDIKGPTKGFSRYNKDKPSVLYQPAGDFLPMIDEVYKQLVEKTKSTPGAKVENNKFCLSVHFRCVDEKKWSELASKVRSVVKNYPTLKLSQGRKVFEIRPIIKWNKGKALEFLLESLGFENCNDVFPIYIGDDKTDEDAFKLLRGRGQGFGILVSKFPKDTSASYSLQDPPEVMNFLGRLVEWKQMQQ |
| 363 | sp|Q96RU7|TRIB3\_HUMAN | MRATPLAAPAGSLSRKKRLELDDNLDTERPVQKRARSGPQPRLPPCLLPLSPPTAPDRATAVATASRLGPYVLLEPEEGGRAYQALHCPTGTEYTCKVYPVQEALAVLEPYARLPPHKHVARPTEVLAGTQLLYAFFTRTHGDMHSLVRSRHRIPEPEAAVLFRQMATALAHCHQHGLVLRDLKLCRFVFADRERKKLVLENLEDSCVLTGPDDSLWDKHACPAYVGPEILSSRASYSGKAADVWSLGVALFTMLAGHYPFQDSEPVLLFGKIRRGAYALPAGLSAPARCLVRCLLRREPAERLTATGILLHPWLRQDPMPLAPTRSHLWEAAQVVPDGLGLDEAREEEGDREVVLYG |
| 364 | sp|P29778|OV251\_ONCVO | MSLFRYNPRDYFYTSPMERFIVNLLDNTFDDRSSRPLHSVAPYWLHQPELNECNIGNTLGEVINEKDKFAVRADVSHFHPKELSVSVRDRELVIEGHHKERADSAGHGSIERHFIRKYVLPEEVQPDTIESHLSDKGVLTICANKTAVGTTASRNIPIRASPKEPEAKQKTKKQ |
| 365 | sp|P50702|OS81\_SOLCO | MGYLRSSFIFSLLAFVTYTYAATIEVRNNCPYTVWAASTPIGGGRRLNKGQTWVINAPRGTKMARIWGRTGCNFNAAGRGSCQTGDCGGVLQCTGWGKPPNTLAEYALDQFSNLDFWDISLVDGFNIPMTFAPTKPSAGKCHAIHCTANINGECPRALKVPGGCNNPCTTFGGQQYCCTQGPCGPTELSKFFKKRCPDAYSYPQDDPTSTFTCPSGSTNYRVVFCPNGVADPNFPLEMPASTDEVAK |
| 366 | sp|P31677|OTSA\_ECOLI | MSRLVVVSNRIAPPDEHAASAGGLAVGILGALKAAGGLWFGWSGETGNEDQPLKKVKKGNITWASFNLSEQDLDEYYNQFSNAVLWPAFHYRLDLVQFQRPAWDGYLRVNALLADKLLPLLQDDDIIWIHDYHLLPFAHELRKRGVNNRIGFFLHIPFPTPEIFNALPTYDTLLEQLCDYDLLGFQTENDRLAFLDCLSNLTRVTTRSAKSHTAWGKAFRTEVYPIGIEPKEIAKQAAGPLPPKLAQLKAELKNVQNIFSVERLDYSKGLPERFLAYEALLEKYPQHHGKIRYTQIAPTSRGDVQAYQDIRHQLENEAGRINGKYGQLGWTPLYYLNQHFDRKLLMKIFRYSDVGLVTPLRDGMNLVAKEYVAAQDPANPGVLVLSQFAGAANELTSALIVNPYDRDEVAAALDRALTMSLAERISRHAEMLDVIVKNDINHWQECFISDLKQIVPRSAESQQRDKVATFPKLA |
| 367 | sp|Q01605|PHOE\_CITFR | MKKSTLALVVMGITASASVQAAEVYNKNGNKLDLYGKVKAMHYMTDYDSKDGDQSYIRLGFKGETQINDELTGYGRWEAEFAGNKAESDSNQQKTRLAFAGSKLKNLGSFDYGRNLGALYDVEAWTDMFPEFGGDSSAQTDNFMTKRASGLATYRNTDFFGVVDGLDLTLQYQGKNQDRDVKKQNGDGFGTSVTYDFGGSDFAVSGAYTNSDRTNQQNLQTRGTGDKAEAWATGLKYDANDIYIATFYSETRNMTPISGGFANKTQNFEAVVQYQFDFGLRPSLGYVLSKGKDIEGVGNEDLVNYIDVGATYYFNKNMSAFVDYKINQLDSDNKLGINNDDIVAVGMVYQF |
| 368 | sp|Q9C5Y0|PLDD1\_ARATH | MAEKVSEDVMLLHGDLDLKIVKARRLPNMDMFSEHLRRLFTACNACARPTDTDDVDPRDKGEFGDKNIRSHRKVITSDPYVTVVVPQATLARTRVLKNSQEPLWDEKFNISIAHPFAYLEFQVKDDDVFGAQIIGTAKIPVRDIASGERISGWFPVLGASGKPPKAETAIFIDMKFTPFDQIHSYRCGIAGDPERRGVRRTYFPVRKGSQVRLYQDAHVMDGTLPAIGLDNGKVYEHGKCWEDICYAISEAHHMIYIVGWSIFHKIKLVRETKVPRDKDMTLGELLKYKSQEGVRVLLLVWDDKTSHDKFGIKTPGVMGTHDEETRKFFKHSSVICVLSPRYASSKLGLFKQQASPSSSIYIMTVVGTLFTHHQKCVLVDTQAVGNNRKVTAFIGGLDLCDGRYDTPEHRILHDLDTVFKDDFHNPTFPAGTKAPRQPWHDLHCRIDGPAAYDVLINFEQRWRKATRWKEFSLRLKGKTHWQDDALIRIGRISWILSPVFKFLKDGTSIIPEDDPCVWVSKEDDPENWHVQIFRSIDSGSVKGFPKYEDEAEAQHLECAKRLVVDKSIQTAYIQTIRSAQHFIYIENQYFLGSSYAWPSYRDAGADNLIPMELALKIVSKIRAKERFAVYVVIPLWPEGDPKSGPVQEILYWQSQTMQMMYDVIAKELKAVQSDAHPLDYLNFYCLGKREQLPDDMPATNGSVVSDSYNFQRFMIYVHAKGMIVDDEYVLMGSANINQRSMAGTKDTEIAMGAYQPNHTWAHKGRHPRGQVYGYRMSLWAEHLGKTGDEFVEPSDLECLKKVNTISEENWKRFIDPKFSELQGHLIKYPLQVDVDGKVSPLPDYETFPDVGGKIIGAHSMALPDTLTT |
| 369 | sp|P24554|RADA\_ECOLI | MAKAPKRAFVCNECGADYPRWQGQCSACHAWNTITEVRLAASPMVARNERLSGYAGSAGVAKVQKLSDISLEELPRFSTGFKEFDRVLGGGVVPGSAILIGGNPGAGKSTLLLQTLCKLAQQMKTLYVTGEESLQQVAMRAHRLGLPTDNLNMLSETSIEQICLIAEEEQPKLMVIDSIQVMHMADVQSSPGSVAQVRETAAYLTRFAKTRGVAIVMVGHVTKDGSLAGPKVLEHCIDCSVLLDGDADSRFRTLRSHKNRFGAVNELGVFAMTEQGLREVSNPSAIFLSRGDEVTSGSSVMVVWEGTRPLLVEIQALVDHSMMANPRRVAVGLEQNRLAILLAVLHRHGGLQMADQDVFVNVVGGVKVTETSADLALLLAMVSSLRDRPLPQDLVVFGEVGLAGEIRPVPSGQERISEAAKHGFRRAIVPAANVPKKAPEGMQIFGVKKLSDALSVFDDL |
| 370 | sp|Q8P2Q5|RADA\_STRP8 | MAKKKATFICQECGYQSPKYLGRCPNCSAWSSFVEEVEVKEVKNARVSLAGEKSRPVKLKDVDNISYHRTQTDMSEFNRVLGGGVVPGSLILIGGDPGIGKSTLLLQVSTQLANKGTVLYVSGEESAEQIKLRSERLGDIDNEFYLYAETNMQAIRTEIENIKPDFLIIDSIQTIMSPDITGVQGSVSQVREVTAELMQLAKTNNIATFIVGHVTKEGTLAGPRMLEHMVDTVLYFEGERHHTFRILRAVKNRFGSTNEIGIFEMQSGGLVEVLNPSQVFLEERLDGATGSAVVVTMEGSRPILAEVQSLVTPTVFGNARRTTTGLDFNRVSLIMAVLEKRCGLLLQNQDAYLKSAGGVKLDEPAIDLAVAVAIASSYKEKPTSPQEAFLGEIGLTGEIRRVTRIEQRINEAAKLGFTKVYAPKNALQGIDIPQGIEVVGVTTVGQVLKAVFS |
| 371 | sp|P0C5C9|REHYA\_ORYSJ | MPGLTIGDTVPNLELDSTHGKIRIHDFVGDTYVILFSHPGDFTPVCTTELAAMAGYAKEFDKRGVKLLGISCDDVQSHKDWIKDIEAYKPGNRVTYPIMADPSREAIKQLNMVDPDEKDSNGGHLPSRALHIVGPDKKVKLSFLYPACVGRNMDEVVRAVDALQTAAKHAVATPVNWKPGERVVIPPGVSDDEAKEKFPQGFDTADLPSGKGYLRFTKVG |
| 372 | sp|Q9AYT5|RSH1\_ORYSJ | MQPPTGAVSGSSSSSLECVSSCRTSWRGGGRPYECSVLSCAWNAPRALTGALASTTAQCSSCSHAEAGAGWRRRGQSQRSNNSLLHITWAEGINRGKFGYGSSAHSFPTGNFFKSWSTSVDPTWRVFCYSSSESFNHISPETLWEDLKPAISYLQPEELNFVHDALKLAYEAHNGQKRRSGEPFIIHPVEVARILGEHELDWESIAAGLLHDTVEDTDMVTFERIENEFGVTVRRIVEGETKVSKLGKLQCKNEGNSKQDVKAEDLRQMFLAMTEEVRVIIVKLADRLHNMRTLTHMPQHKQYAIAMETLQVFAPLAKLLGMYRIKSELEYLSFMYMNPGDFAELKKRVEDLYKAHEQELEEANQILGEKIAEDQFLDLVSVETQVRSVCKELYSIYKTALKSKSSINEINQVAQLRIIIKPKSCNGVGPLCTAQQICYHVLGLVHGIWTPIPQAVKDYIATPKPNGYQSLHTTVIPFLNESMFHLEVQIRTEDMDLIAERGIAAHYSGRGVVSGPVRPGISSGRNSNGKVICLNNTGFALRIGWLNAIREWQEEFVGNMSSREFVDTITRDLLGSRVFVFTPKGEIKNLPKGATVVDYAYLIHTEIGNKMVAAKVNGNLVSPIHVLANAEVVEIIIYDKLSAKYAFQRHQQWLQHAKTRSARHKIMKFLREQAALSAAEITADAVNNFVADLEDESDYEQSIPSSENKDYTFNWQKILNSDKLSFGNKKSDCFLPVKNVSVPKVNGKHNKTVKELGIKINGSTFRGDSFTDFIHPGVSSSKEVLPSVDNWKAGKICAWHNTEGSSIQWLCIVCVDRKGMVAEVSSALTACGITICSCVAERDKRRGIGVMLFHFEGAYENVVSACSGVDMILGVLGWSVGCSCNPLGVLEC |
| 373 | sp|Q942F8|SAP2\_ORYSJ | MEQGSERQDERPPLPCANGCGFFGSADTRGLCSKCYRQTVMSQASAPSAAAQSAEHDQVVLPAPEGVPVDEGAMPPPPPRHGAKTKSRCAACGRSVGLMGFECRCGAVFCGAHRYSDRHDCGYDYRGAGRDAIARANPVVRPDKVEKL |
| 374 | sp|O22703|RZ1B\_ARATH | MKDRENDGNLESRIFVGGLSWDVTERQLESTFDRYGKITECQIMVGRDTGRPRGFGFITFTDRRGADDAIKHMHGRELGNKVISVNKAEPKVGGEDVDQLKKGGGYSSRGKGTEDECFKCRRPGHWARDCPSTGDDRERFRVPLAMRSRIGDIDGHRDRYGDRDLEREREREREFDRYMDGRRDRDGGRYSYRDRFDSGDKYEPRDHYPFERYAPPGDRFVSDRYGMPEHHLENEYRGRERSYDRDRYARDTSDRYGDMGPIRDEGRPYRSRPGPYDRPSRPGGRPSSYERW |
| 375 | sp|Q94AQ9|SGRL\_ARATH | MACYIVPYYHHPVLSHPNREIFSHRHHHHHRFCNNLLNRRISVPRSSAISDGGVSYNTLVSEAVRLLVPQANFDSSKLKVEFLGELLENKSNGGIITPRTYILSHCDFTANLTLTISNVINLDQLEGWYKKDDVVAEWKKVNDELRLHIHCCVSGMSLLQDVAAELRYHIFSKELPLVLKAVVHGDSVMFRENPELMDAYVWVYFHSSTPKYNRIECWGPLKDAAKGKQQGNHQGFLSSTTSRKLIRHKSIFHTLFTFLL |
| 376 | sp|Q2H3I7|SHO1\_CHAGB | MEYSRPQYGRKRMSLGNIIGDPFALATTSIATLAWLISFVATIIAHIQYPVKFPLFAYWALVFYFGLIIGVFVVVASDSTQTYHVALVGYLGCGLVLSTSSVNNLIHDNQGAKEASAAGFILLSMVTIVWIFYFGSAPSAVPRAYIDSFALAKESTSTNRQTMTGGYGGRRPETSTSVQPPQMYTAQLNGLENPSPVGGMTSAMTNPTIPPAYTAPPTQKTAAPNAENPNAEIVPPTEYPYRAKAIYSYEANPEDANEISFSKHEILEVSDVSGRWWQARKESGETGIAPSNYLILL |
| 377 | sp|C5FH98|SHO1\_ARTOC | MARFQMSNLVGDPFALATVSIAILAWIITVVSCIIAQTKEAIPNFFWWSVAYQFCIVVGITAVMGSNTGHVYSTAIVGYAAAGLVCTTFTIDGLVTSKEGARQSGGAGLILLAMTDIVWIFYFGSTPQSRPRTYIDSFAPHKEQPSYRSSKPISHSYTPRPETTVSSAHQPHLYSSAPLSGFESSPMAGYNATTASSTGIQPMVGLQTNASTVGGDTAEIGQPTEYPYRAKAIYSYEANPDDANEISFTKHEILEVSDVSGRWWQAKKSTGETGIAPSNYLILL |
| 378 | sp|A2ICC6|THS7\_VITVI | MASVEEFRNAQRAKGPATILAIGTATPDHCVYQSDYADYYFRVTKSEHMTELKKKFNRICDKSMIKKRYIHLTEEMLEEHPNIGAYMAPSLNIRQEIITAEVPRLGRDAALKALKEWGQPKSKITHLVFCTTSGVEMPGADYKLANLLGLETSVRRVMLYHQGCYAGGTVLRTAKDLAENNAGARVLVVCSEITVVTFRGPSEDALDSLVGQALFGDGSSAVIVGSDPDVSIERPLFQLVSAAQTFIPNSAGAIAGNLREVGLTFHLWPNVPTLISENIEKCLTQAFDPLGISDWNSLFWIAHPGGPAILDAVEAKLNLEKKKLEATRHVLSEYGNMSSACVLFILDEMRKKSLKGENATTGEGLDWGVLFGFGPGLTIETVVLHSIPTVTN |
| 379 | sp|O59810|VGL1\_SCHPO | MEHLSNLEQPTTMDSYDFQKLTNDENLQGTESQVPSGSKSASTNGLLSAASSAAGSSFGLTPSAILQQKHENAQQGKKQNNSKSFSKKPAIDVHSEDAFPTLLSKTGPSKPRIVSWVRKTASNTSVAGSDSVSRDKIPFSASSRASSTKSTLSSVKETDFVTETLILSPDNQAPRMSFVGKPNSVAEIVRTVMHQTSTRINVSTASKTKNTTFLIQGKTSAVKAARRQILKLIGRRETKTMPCPVFVVGAIIGTNGQNLKSIMDRTSTRIQIPKRNNTANESSDDAKKPEKEENSAASTLDDLEPQYEMTTITIEGDFEGVELAQKDIEAIINERTSNTTVRISHISTELYSLLRGPDGKNIKELEEGRDLKVQIPFAYLDPSAPVNPIVLSGEKSAVRECALYLQGQAEELLRTTIPTMLPIPRRQHRFINGEKGVGIQDILRKSGCSVILPPINGDSDVVSVRGPALNISEGIRLTLERANSTIVDAVNITTAYASSKNPFDIASIVARLFLRSRKLIPLEEECAVQYHLPKREELQSNSNKTVIIEISGKSQEAVREGRAKLLALVNQFPESKFYKVTIDPLLQRYVIGSKGKNLQKLRNEHQVELLVGEYGEEDPDVIVCYIGADDGKSPDQIQKELADLAESVKSSAEASAKIVSEIIQVPSVYHKHIVGPKGTTLNAIIGKSEENVIVQLGKVSYRPDSTDDDVYIRGFSKDVERVVSEIKQVVRDAKNHEILHSHVEEFDFPAQYSKNVIGKNGSNVSSLREDLGVQINVEEGHIRIQGIKKNVEETAARIKSQIEALIDDTILRVNIPNDFHRQLIGSNGKYVRRLEEKFSVRVRFPREDDSSNSTGNELMKPTSPDEVVIRGGKKSVAAAKQELLELYEYEKSIAYTSTIDIPSKAVSRVVGRNGSTVENIRTQFDVKIDIGDVSTEETTPVSVRGAKADVENAIKEISAIAEEVKNLVEKVIKIDREYHRYLIGPNGSKLQNTIKECGGSTDKTETARLISFSNGNSEEERNSVVLRGDKEIVEALETRLLEIVEELKNQVEEKIEVPQRCISSIIGRMGSTRRDIERKTSTMLNIPNVLDPEETVTITIVGSPENCEKAKEMIQEKVASQYTQMITVPDTVYESIMKGILMKKLRSDLKVFVDTPEIKPVQPTEVVLEDHEDGVFPWKLVTHDYTGSSSSEWAVRGHKENVEKAIASLEKSIKQVMENCIAYLGIPTNLHRRIIGSGGSIINKIRKIAQVKIDVPRTPGDEIVVVQGSRAGVVKAKDLIFERLQENQNQE |
| 380 | sp|Q5JN07|SAP3\_ORYSJ | MGQQVQHESRINVGEATHVSKAEMGANTMFATSRLNSNNKVGPELAYLSGVASSASDSSTAAPSPCYLCHKPAALHVFGLAGRYVFGSVKREAYLSQEGPRSGRTPNRIAESLPVRVVNDFGLRLRVVTNQGPIKPRPPRPIDAIVFASIETRNRLRGFDRSFCCSAPPETYVFLPRARETIVLRANIIKMSSEQQASAGQPVLCASGCGFYGNPATLDMCSVCYRQHCLLNGATMATGPSSSVAAASAATVATGAVTSDSCSVPSAEVNGAAFSSKNNPEPATVVEKKAPANRCASCKKKVGLLGFACRCGATYCGTHRYPEKHACGFDFKGASRDAIARANPLIKGEKLTNKI |
| 381 | sp|E7RAI2|SHO1\_OGAPD | MGRSNPVSLFNPFALSTFGFSSIGWIITFAGCIATNTQNNGFPKFAWWAVVFQLLLLIVIVVLYITNTFHYHRFFLTCAIGVAFVYNSNATNNLVYDTSSAPAAASAGFIIQCIVNILWLFYFGSEPSSPIISYIDSFGSSENVMLSSKRSKSNRNAAGQSQIPLDEPYKDETMGYAERNSVSNDNSGLHENPFNTQNYTAQLSGLENASTTNRASALPEDDYPITVRGLFDYDASPDDINELSFKKGDIFRVKDTVGNWWQGKNSKGEIGMCPSNYLEVIG |
| 382 | sp|E7Q311|SHO1\_YEASB | MSISSKIRPTPRXPSRMATDHSFKMKNFYADPFAISSISLAIVSWVIAIGGSISSASTNESFPRFTWWGIVYQFLIICSLMLFYCFDLVDHYRIFITTSIAVAFVYNTNSATNLVYADGPKKAAASAGVILLSIINLIWILYYGGDNASPTNRWIDSFSIKGIRPSPLENSLHRARRRGNRNTTPYQNNVYNDAIRDSGYATQFDGYPQQQPSHTNYVSSTALAGFENTQPNTSEAVNLHLNXLQQRINSASNAKETNDNSNNQTNTNIGNTFDTDFSNGNTETTMGDTLGLYSDIGDDNFIYKAKALYPYDADDDDAYEISFEQNEILQVSDIEGRWWKARRANGETGIIPSNYVQLIDGPEEMHR |
| 383 | sp|Q3E958|SHN3\_ARATH | MVHSKKFRGVRQRQWGSWVSEIRHPLLKRRVWLGTFDTAETAARAYDQAAVLMNGQSAKTNFPVIKSNGSNSLEINSALRSPKSLSELLNAKLRKNCKDQTPYLTCLRLDNDSSHIGVWQKRAGSKTSPNWVKLVELGDKVNARPGGDIETNKMKVRNEDVQEDDQMAMQMIEELLNWTCPGSGSIAQV |
| 384 | sp|Q2FKC6|SODM2\_STAA3 | MAFKLPNLPYAYDALEPYIDQRTMEFHHDKHHNTYVTKLNATVEGTELEHQSLADMIANLDKVPEAMRMSVRNNGGGHFNHSLFWEILSPNSEEKGGVIDDIKAQWGTLDEFKNEFANKATTLFGSGWTWLVVNDGKLEIVTTPNQDNPLTEGKTPILLFDVWEHAYYLKYQNKRPDYMTAFWNIVNWKKVDELYQAAK |
| 385 | sp|Q00917|SUS2\_ARATH | MPTGRFETMREWVYDAISAQRNELLSLFSRYVAQGKGILQSHQLIDEFLKTVKVDGTLEDLNKSPFMKVLQSAEEAIVLPPFVALAIRPRPGVREYVRVNVYELSVDHLTVSEYLRFKEELVNGHANGDYLLELDFEPFNATLPRPTRSSSIGNGVQFLNRHLSSIMFRNKESMEPLLEFLRTHKHDGRPMMLNDRIQNIPILQGALARAEEFLSKLPLATPYSEFEFELQGMGFERGWGDTAQKVSEMVHLLLDILQAPDPSVLETFLGRIPMVFNVVILSPHGYFGQANVLGLPDTGGQVVYILDQVRALENEMLLRIQKQGLEVIPKILIVTRLLPEAKGTTCNQRLERVSGTEHAHILRIPFRTEKGILRKWISRFDVWPYLETFAEDASNEISAELQGVPNLIIGNYSDGNLVASLLASKLGVIQCNIAHALEKTKYPESDIYWRNHEDKYHFSSQFTADLIAMNNADFIITSTYQEIAGSKNNVGQYESHTAFTMPGLYRVVHGIDVFDPKFNIVSPGADMTIYFPYSDKERRLTALHESIEELLFSAEQNDEHVGLLSDQSKPIIFSMARLDRVKNLTGLVECYAKNSKLRELANLVIVGGYIDENQSRDREEMAEIQKMHSLIEQYDLHGEFRWIAAQMNRARNGELYRYIADTKGVFVQPAFYEAFGLTVVESMTCALPTFATCHGGPAEIIENGVSGFHIDPYHPDQVAATLVSFFETCNTNPNHWVKISEGGLKRIYERYTWKKYSERLLTLAGVYAFWKHVSKLERRETRRYLEMFYSLKFRDLANSIPLATDEN |
| 386 | sp|Q9FWC1|TRE\_ORYSJ | MAPTAAVAGGGVEAEALLGLLQRVQSEALRAFGPNDFDPKLYVDLPLAADASAAAALASLPRAAPSRGEMEAYISRYFALAGSDLVAAADPPDFERDPPGFLPRVERAEARAWALEVHALWKDLTRRVAPAVAARPDRHTLLPLPGRVVVPGSRFREVYYWDSYWVVRGLLVSKMYETAKDIVLNLVYLVEKYGFVLNGARSYYTNRSQPPLLSSMVLDIYMATGDMAFVRRVFPSLLKEHSFWMSEVHNVAVMDNHGRVHNLSRYQAMWNKPRPESATIDEEFASKLSTAAKEKFYHQVASTAETGWDFSSRWMRDSTDMTTLTTSCIIPVDLNTFILKMEQDIAFFAKLIGESTTSEIFSEASKARHNAIDSVLWNADMEQWLDYWLPTDGNCQGVYQWKSISQNRAIFASNFVPLWLNAQHSGLEQFVDEAKSVRVMRSLQKSGLLQPAGIATSLSNTGQQWDFPNGWAPLQHLIVEGLLRSGSGEARELAEDIATRWVRTNYDAYKATGAMHEKYDVVTCGKSGGGGEYKPQTGFGWSNGVILSFLDEFGWPQDKKIDC |
| 387 | sp|Q2FGH0|SODM1\_STAA3 | MAFELPKLPYAFDALEPHFDKETMEIHHDRHHNTYVTKLNAAVEGTDLESKSIEEIVANLDSVPANIQTAVRNNGGGHLNHSLFWELLSPNSEEKGTVVEKIKEQWGSLEEFKKEFADKAAARFGSGWAWLVVNNGQLEIVTTPNQDNPLTEGKTPILGLDVWEHAYYLKYQNKRPDYIGAFWNVVNWEKVDELYNATK |
| 388 | sp|P27477|THTR\_SYNE7 | MSVRSLRWPRQKAFLAVISLVVAVLLAVPGWLTPATAASQATVQFVAPTWAAERLNNKQLKILDVRTNPLAYIEGHLPGAVNIADAAYRGPNGFLPVQIWDPEKLASLFGRAGVSNNDTVLVYSDGNDVLGATLVAYLLERSGVQNIAVLDGGYKGYKDAGLPVTKEYPRYQAARFAPKDNRAFRVDIKQVEQLTGKSTFVDPRPPALFSGEQQVFIRNGHIPGARNIPWPTFTEANNANESLKNPHKLKPLSELKAILEAKGVTPDKDVIVTCSTGREASLQYLVLKHLLKYPKVRIYEGSWTEYSASNLPVETGPDRV |
| 389 | sp|P33890|TIR2\_YEAST | MAYIKIALLAAIAALASAQTQEEIDELNVILNDVKSNLQEYISLAEDSSSGFSLSSLPSGVLDIGLALASATDDSYTTLYSEVDFAAVSKMLTMVPWYSSRLLPELESLLGTSTTAASSTEASSAATSSAVASSSETTSSAVASSSEATSSAVASSSEASSSAATSSAVASSSEATSSTVASSTKAASSTKASSSAVSSAVASSTKASAISQISDGQVQATSTVSEQTENGAAKAVIGMGAGVMAAAAMLL |
| 390 | sp|O82245|TSPO\_ARATH | MDSQDIRYRGGDDRDAATTAMAETERKSADDNKGKRDQKRAMAKRGLKSLTVAVAAPVLVTLFATYFLGTSDGYGNRAKSSSWIPPLWLLHTTCLASSGLMGLAAWLVWVDGGFHKKPNALYLYLAQFLLCLVWDPVTFRVGSGVAGLAVWLGQSAALFGCYKAFNEISPVAGNLVKPCLAWAAFVAAVNVKLAVA |
| 391 | sp|Q9SJQ9|ALFC6\_ARATH | MSSFTSKFADELIANAAYIGTPGKGILAADESTGTIGKRLASINVENVESNRRALRELLFTTPGALPCLSGVILFEETLYQKSSDGTPFVDMLKSAGVLPGIKVDKGTVELAGTNGETTTQGLDGLGDRCKKYYEAGARFAKWRAVLKIGVNEPSQLAIHENAYGLARYAVICQENGLVPIVEPEILVDGSHDIQKCAAVTERVLAACYKALSDHHVLLEGTLLKPNMVTPGSESAKVAPEVIAEHTVRALQRTVPAAVPAIVFLSGGQSEEEATRNLNAMNQLKTKKPWSLSFSFGRALQQSTLKTWGGKEENVKKAQEAFLVRCKANSEATLGAYKGDAKLGEGAAESLHVKDYKY |
| 392 | sp|G5CTF9|AQP2\_MILTA | MCISEGKMDWRSWLRKKFQVRSQLLRGCMAEFLAVFVLMVFTEGCSASAIFTHRRNDLLFAAFGSGLAVTMAVYVAGGVTGAFLNPAIAVAFSVLGKLPWKNCFCYMIAQYLGAFLASLAIYAQYYDALNIFDGGHRQVLGDNGTAQIWSTYPQAFLSPQGAFVDQVFGTALLIIVVLSMVDKKNWKPQNGYFPIAIGLLIVVLDISLAYNAGAALNPSRDLAPRLFTYVAGYGTETFSVKGYTWFFVPVVGSHAGAIVGAVIYQLFIGAQWPQDDLDDSNSVSSMSIHEKNFSLAKRKNTRNFNLDITRDFKERNGISTVLY |
| 393 | sp|P24244|APPX\_ECOLI | MWYLLWFVGILLMCSLSTLVLVWLDPRLKS |
| 394 | sp|A0A3B6MPP5|BZP1D\_WHEAT | MGSSEAETPAKANKASAPQEQQPPATSSTATPTVYPDWTSFQGYPPIPPHGFFPSPVVSNPQGHPYMWGPQPMMPPYGSPPYVIYPPGGIYAHPSMRPGAHPFAPYTMTSPNGNPDAAGTTTTAATAGGETNGKSSEGKEKSPIKRSKGSLGSLNMITGKNCVEHGKTSGASANGTISQSGESGSESSSEGSEANSQNDSQHKESGQEQDGDVRSSQNGVSPSPSQAQLKQTLAIMQMPSSGPVPGPTTNLNIGMDYWANTASSSPALHGKVTPTAIPGAVAPTEPWMQDERELKRQKRKQSNRDSARRSRLRKQAECEELAQRAEVLKQENASLKDEVSRIRKEYDELLSKNSSLKDNVGDKQHKTDEAGLDNKLQHSGDDSQKDTN |
| 395 | sp|F4IK45|C70B2\_ARATH | MLFCSVRILFIISSKQLVLISETEVTTTLTLHTTHKIESPTANPPQSKKNLFVIRMELLSTINLLAIALVLLVVPKIYGACRILVWRPWMLSRRFKKQGISGPKYRILYGNLREIRKMKNEAKLMVLDPNSNDIVPRVLPHLQQWKSQYGETFLYWQGTDPRLCISDHELAKQILSNKFVFFSKSKTKPEILKLSGNGLIFVNGLDWVRHRRILNPAFSMDKLKLMTQLMVDCTFRMFLEWKKQRNGVETEQFVLISREFKRLTADIIATAAFGSSYAEGIEVFKSQLELQKCCAAALTDLYFPGIQYLPTPSNLQIWKLDMKVNSSIKRIIDARLTSESKDYGNDLLGIMLTAASSNESEKKMSIDEIIEECKTFFFAGHETTANLLTWSTMLLSLHQDWQEKLREEVFNECGKDKIPDAETCSKLKLMNTVFMESLRLYGPVLNLLRLASEDMKLGNLEIPKGTTIILPIAKMHRDKAVWGSDADKFNPMRFANGLSRAANHPNALLAFSMGPRACIGQNFAIMEAKTVLAMILQRFRLNLSADYKHAPADHLTLQPQYDLPVILEPIDG |
| 396 | sp|P77395|CNOX\_ECOLI | MSVENIVNINESNLQQVLEQSMTTPVLFYFWSERSQHCLQLTPILESLAAQYNGQFILAKLDCDAEQMIAAQFGLRAIPTVYLFQNGQPVDGFQGPQPEEAIRALLDKVLPREEELKAQQAMQLMQESNYTDALPLLKDAWQLSNQNGEIGLLLAETLIALNRSEDAEAVLKTIPLQDQDTRYQGLVAQIELLKQAADTPEIQQLQQQVAENPEDAALATQLALQLHQVGRNEEALELLFGHLRKDLTAADGQTRKTFQEILAALGTGDALASKYRRQLYALLY |
| 397 | sp|P80244|CLPP\_BACSU | MNLIPTVIEQTNRGERAYDIYSRLLKDRIIMLGSAIDDNVANSIVSQLLFLAAEDPEKEISLYINSPGGSITAGMAIYDTMQFIKPKVSTICIGMAASMGAFLLAAGEKGKRYALPNSEVMIHQPLGGAQGQATEIEIAAKRILLLRDKLNKVLAERTGQPLEVIERDTDRDNFKSAEEALEYGLIDKILTHTEDKK |
| 398 | sp|Q6GAV1|CLPB\_STAAS | MDINKMTYAVQSALQQAVELSQQHKLQNIEIEAILSAALNESESLYKSILERANIEVDQLNKAYEDKLNTYASVEGDNIQYGQYISQQANQLITKAESYMKEYEDEYISMEHILRSAMDIDQTTKHYINNKVEVIKEIIKKVRGGNHVTSQNPEVNYEALAKYGRDLVEEVRQGKMDPVIGRDEEIRNTIRILSRKTKNNPVLIGEPGVGKTAIVEGLAQRIVKKDVPESLLDKTVFELDLSALVAGAKYRGEFEERLKAVLKEVKESDGRIILFIDEIHMLVGAGKTDGAMDAGNMLKPMLARGELHCIGATTLNEYREYIEKDSALERRFQKVAVSEPDVEDTISILRGLKERYEVYHGVRIQDRALVAAAELSDRYITDRFLPDKAIDLVDQACATIRTEMGSNPTELDQVNRRVMQLEIEESALKNESDNASKQRLQELQEELANEKEKQAALQSRVESEKEKIANLQEKRAQLDESRQALEDAQTNNNLEKAAELQYGTIPQLEKELRELEDNFQDEQGEDTDRMIREVVTDEEIGDIVSQWTGIPVSKLVETEREKLLHLSDILHKRVVGQDKAVDLVSDAVVRARAGIKDPNRPIGSFLFLGPTGVGKTELAKSLAASLFDSEKHMIRIDMSEYMEKHAVSRLIGAPPGYIGHDEGGQLTEAVRRNPYSVILLDEVEKAHTDVFNVLLQILDEGRLTDSKGRSVDFKNTIIIMTSNIGSQVLLENVKETGEITESTEKAVMTSLNAYFKPEILNRMDDIVLFKPLSIDDMSMIVDKILTQLNIRLLEQRISIEVSDDAKAWLGQEAYEPQYGARPLKRFVQRQIETPLARMMIKEGFPEGTTIKVNLNSDNNLTFNVEKIHE |
| 399 | sp|P96614|CSHA\_BACSU | MTITFQDFNLSSDLMKAINRMGFEEATPIQAQTIPLGLSNKDVIGQAQTGTGKTAAFGIPLVEKINPESPNIQAIVIAPTRELAIQVSEELYKIGQDKRAKVLPIYGGQDIGRQIRALKKNPNIIVGTPGRLLDHINRRTIRLNNVNTVVMDEADEMLNMGFIDDIESILSNVPSEHQTLLFSATMPAPIKRIAERFMTEPEHVKVKAKEMTVSNIQQFYLEVQERKKFDTLTRLLDIQSPELAIVFGRTKRRVDELAEALNLRGYAAEGIHGDLTQAKRMVALRKFKEGAIEVLVATDVAARGLDISGVTHVYNFDVPQDPESYVHRIGRTGRAGKTGMAMTFITPREKSMLRAIEQTTKRKMDRMKEPTLDEALEGQQQVTVERLRTTISENNLNFYMTAAAELLEDHDAVTVVAAAIKMATKEPDDTPVRLTDEAPMVSKRYKNQRSSKRRDGQGGGYRGGKGKSNNRSSYDKKRSNDRRSSGDRRQKKSY |
| 400 | sp|Q5HEB9|CSHA\_STAAC | MQNFKELGISDNTVQSLESMGFKEPTPIQKDSIPYALQGIDILGQAQTGTGKTGAFGIPLIEKVVGKQGVQSLILAPTRELAMQVAEQLREFSRGQGVQVVTVFGGMPIERQIKALKKGPQIVVGTPGRVIDHLNRRTLKTDGIHTLILDEADEMMNMGFIDDMRFIMDKIPAVQRQTMLFSATMPKAIQALVQQFMKSPKIIKTMNNEMSDPQIEEFYTIVKELEKFDTFTNFLDVHQPELAIVFGRTKRRVDELTSALISKGYKAEGLHGDITQAKRLEVLKKFKNDQINILVATDVAARGLDISGVSHVYNFDIPQDTESYTHRIGRTGRAGKEGIAVTFVNPIEMDYIRQIEDANGRKMSALRPPHRKEVLQAREDDIKEKVENWMSKESESRLKRISTELLNEYNDVDLVAALLQELVEANDEVEVQLTFEKPLSRKGRNGKPSGSRNRNSKRGNPKFDSKSKRSKGYSSKKKSTKKFDRKEKSSGGSRPMKGRTFADHQK |
| 401 | sp|E1WGN1|CSPJ\_SALTS | MTTKITGLVKWFNPEKGFGFITPKDGSKDVFVHFSAIQSNEFRTLNENQEVEFSVEQGPKGPSAVNVVAL |
| 402 | sp|Q8Y755|CSHB\_LISMO | MTKKSRFDQFGFQPFIGLAIDKLGFYEPTEVQQKLIPGILKGESIIGQSQTGTGKTHTFILPIINNVNPEKDAVQAVITAPSRELATQIYNEIRKVTKYSEKEIAVQLVIGGTDKQRAIDKLKKQPQIIVGTPGRINDLIREQALFVHTAKTLVIDEADMTLDMGFLNDVDHIAGKMPANLQMLVFSATIPQKLKPFLSKYMENPRYEHIQPKVAASKTVEHRIMATRSRNKLDLLKNVLVGSQPYLAIVFTNTKTTADEVANGLIERGLKVAKIHGDVNPRERKRTMKQIENLDYQYVVATDLAARGIDIQGISHVVNYELPDDLDFYIHRTGRTGRAGHSGIALTLFEPADEDRLNQLEKMGIEFKHVDWKNKEFVTLEDRNRRAKREAKRETADPREIGMRKKAKQKGKPNYKKKINYKMNEIKRRERRKKR |
| 403 | sp|O30561|THS1\_HALVD | MSQRMQQGQPMIILGEDSQRTSGQDAQSMNITAGKAVAEAVRTTLGPKGMDKMLVDSGGQVVVTNDGVTILKEMDIDHPAANMIVEVSETQEDEVGDGTTTAVINAGELLDQAEDLLDSDVHATTIAQGYRQAAEKAKEVLEDNAIEVTEDDRETLTKIAATAMTGKGAESAKDLLSELVVDAVLAVKDDDGIDTNNVSIEKVVGGTIDNSELVEGVIVDKERVDENMPYAVEDANIAILDDALEVRETEIDAEVNVTDPDQLQQFLDQEEKQLKEMVDQLVEVGADAVFVGDGIDDMAQHYLAKEGILAVRRAKSSDLKRLARATGGRVVSSLDDIEADDLGFAGSVGQKDVGGDERIFVEDVEDAKSVTLILRGGTEHVVDELERAIEDSLGVVRTTLEDGKVLPGGGAPETELSLQLREFADSVGGREQLAVEAFAEALDIIPRTLAENAGLDPIDSLVDLRSRHDGGEFAAGLDAYTGEVIDMEEEGVVEPLRVKTQAIESATEAAVMILRIDDVIAAGDLSGGQTGSDDDDGGAPGGMGGGMGGMGGMGGMGGAM |
| 404 | sp|Q54VP4|Y0215\_DICDI | MSINWLTHPFEELSNLKHSLDETLKNWTEPAPTAATSMDWGWKPRMDVCENKDYYKIILELPSFNKDEIEVQVNGRFLSIKGQKIEHTTDEWKYHRRERYSGGEFHRAVALPEGIDGSSIQAKFQSGVLLLLIPKTGGKTSQHISLFGREEHGNKRNVIDLEEKERKRRMEESDPMLGRRWGTGRSLFSGSKLNNQNDTMYRKPSASDLRLVKQMETKERERRIRDTKGETEKKKNALKVSRYIKSLGMNPRSTLRRGGREMEKIIHLEERERQARIRDKGRMRQQQALAKKVSNLIKHSGGAARLRHTGFNYSTITKGYNTNKTKFDRFGKENDSFGGFNINKSFTNQFKGFGKNSGGKSINITTGGFKAPSQFNKFTHNLEEKERQRRLNDKKGQNDAKRLAAEISHMIGNAHF |
| 405 | sp|Q8RWH3|YAK1\_ARATH | MDDIDSSDGAAAARAGEIGSIGVSTPWKPIQLVFKRYLPQNGSASKVHVAVKKPVVVRLTRDLVETYKICDPQFKYRGELNPKRYLTTPSVGVNNDGFDNVNYDLILAVNDDFCSSDSRQRYIVKDLLGHGTFGQVAKCWVPETNSFVAVKVIKNQLAYYQQALVEVSILTTLNKKYDPEDKNHIVRIYDYFLHQSHLCICFELLDMNLYELIKINQFRGLSLSIVKLFSKQILLGLALLKDAGIIHCDLKPENILLCASVKPTEIKIIDFGSACMEDKTVYSYIQSRYYRSPEVLLGYQYTTAIDMWSFGCIVAELFLGLPLFPGGSEFDILRRMIEILGKQPPDYVLKEAKNTNKFFKCVGSVHNLGNGGTYGGLKSAYMALTGEEFEAREKKKPEIGKEYFNHKNLEEIVKSYPYKINLPEDDVVKETQIRLALIDFLKGLMEFDPAKRWSPFQAAKHPFITGEPFTCPYNPPPETPRVHVTQNIKVDHHPGEGHWFAAGLSPHVSGRTRIPMHNSPHFQMMPYSHANSYGSIGSYGSYNDGTIQDNSYGSYGGTGNMFAYYSPVNHPGLYMQNQGGVSMLGTSPDARRRVMQYPHGNGPNGLGTSPSAGNFAPLPLGTSPSQFTPNTNNQFLAGSPGHHGPTSPVRNSCHGSPLGKMAAFSQINRRMSAGYSGGSQSQDSSLSQAQGHGMDNFYQNEGYSGQFSGSPSRRQLDSGVKNRKQTQGGTTLSTGYSTHNNANSSLRSNMYNPSSTAHHLENPDTALSVPDPGDWDPNYSDDLLLEEDSADESSLANAFSRGMQLGSTDASSYSRRFNSNASTSSSNPTTQRRYAPNQAFSQVETGSPPSNDPHARFGQHIPGSQYIPHVSQNSPSRLGQQPPQRYNHGRPNAGRTMDRNHMNAQLPPSNTNSGGQQRSPRSSSYTNGVPWGRRTNNHVPNVPSTSHGRVDYGSIA |
| 406 | sp|P25637|YIH1\_YEAST | MDDDHEQLVEELEAVEAIYPDLLSKKQEDGSIIVVKVPQHEYMTLQISFPTHYPSEEAPNVIEVGVCTSLAKRDLYDTKYLQHLFQEVMDSVFHRGSVCLFDFLTELDGVLYVEPEEETEPVQQSDIPTDPFEGWTASDPITDRGSTFMAFAAHVTSEEQAFAMLDLLKTDSKMRKANHVMSAWRIKQDGSAATYQDSDDDGETAAGSRMLHLITIMDVWNVIVVVARWFGGAHIGPDRFKHINSTAREAVVRAGFDS |
| 407 | sp|Q6GKH2|SODM2\_STAAR | MAFKLPNLPYAYDALEPYIDQRTMEFHHDKHHNTYVTKLNATVEGTELEHQSLADMIANLDKVPEAMRMSVRNNGGGHFNHSLFWEILSPNSEEKGGVIDDIKAQWGTLDEFKNEFANKATTLFGSGWTWLVVNDGKLEIVTTPNQDNPLTEGKTPILLFDVWEHAYYLKYQNKRPDYMTAFWNIVNWKKVDELYQAAK |
| 408 | sp|Q5AKU3|YBP1\_CANAL | MENLESGAQDALQSKDFLSYSTLLDIYLNDPTKYSNEEKEQLLGHILTILSENKQLTYEIGWDLPQLLILYVDSDYEFNGPIRDSPGVYKILKIFENLAINGNHKELFLKSCELLNDLELSQDEDIELLKRENFFEIKLYCVFELIDACLKKIHTLYPSRFLAMTVSSFNNLMFKLTKQHGSLGNYHFVMKRVYSFCRNYISPPLPTNAKEMPQEELDKIVKDEEYLQRRLLTGFLTQVIYLANINGTEGYSIEHFSWLQQQSKSKIKFVFERDGAFCDRFVELASSFDIDLLKCFQGFITDSHKLLIGIDYKNKNKSEDEIIELLFERVVVDYQKNVLTSIVDSDAKAIKDSIIGELILFTHSIAGKKNFAKPTMSIHDSLVMTLRLIIPQMVNPKFINAGNHDVVVFWVWFALYQQQIINSKNLQLEISYIPKVLLTTFFQCLLFIVIKSEGKPNFKYMLLTLLTKLLTLSPDTGYEFIKDSLNNCPYESVYPSLIGVYKQLLLNEKWDVNSIELEKLNISSSSSNTPPKLPPRNGIKRKHFSLTNESLNDLVDLINNSSKNAFVEDNSKIDPSKLSTIAAYLNLLVAIKKDPVIVENKEKLTTLISSIENKIKSVKKSSQNQFELNAAGMLEITIERFNE |
| 409 | sp|A7ZV87|YTFE\_ECO24 | MAYRDQPLGELALSIPRASALFRKYDMDYCCGGKQTLARAAARKELDVEVIEAELAKLAEQPIEKDWRSAPLAEIIDHIIVRYHDRHREQLPELILQATKVERVHADKPSVPKGLTKYLTMLHEELSSHMMKEEQILFPMIKQGMGSQAMGPISVMESEHDEAGELLEVIKHTTNNVTPPPEACTTWKAMYNGINELIDDLMDHISLENNVLFPRALAGE |
| 410 | sp|Q1CEH8|YTFE\_YERPN | MDYRNQSLGALAIAIPRATKLFRQHQLDFCCGGKQTLLRAANKLNLDIDALEAQLSALQTEPHSSEDWQQQPLTNLISFIISRYHDRHREQLPELVLMAEKVERVHGEKPTCPRGLAAELSAILEELTQHMYKEEQILFPMIQRGMGSQASGPIFVMEAEHDAVGQQLDVVKQLTQNVTPPEGACNTWRALYTGINEFITDLMEHIHLENNLLFPRALRGE |
| 411 | sp|P13445|RPOS\_ECOLI | MSQNTLKVHDLNEDAEFDENGVEVFDEKALVEQEPSDNDLAEEELLSQGATQRVLDATQLYLGEIGYSPLLTAEEEVYFARRALRGDVASRRRMIESNLRLVVKIARRYGNRGLALLDLIEEGNLGLIRAVEKFDPERGFRFSTYATWWIRQTIERAIMNQTRTIRLPIHIVKELNVYLRTARELSHKLDHEPSAEEIAEQLDKPVDDVSRMLRLNERITSVDTPLGGDSEKALLDILADEKENGPEDTTQDDDMKQSIVKWLFELNAKQREVLARRFGLLGYEAATLEDVGREIGLTRERVRQIQVEGLRRLREILQTQGLNIEALFRE |
| 412 | sp|Q5HR69|SCDA\_STAEQ | MITKEDIVADVVTDYPKSADIFRNAGIDFCCGGQESIASAVNHKPNIDLNSLLNKLNHIDNTEGNSTINPKFLNVESLIQYIQSAYHETLKEEFKNLTPYMTKLAKVHGPSHPYLLKLQDLYREFRDSMLDHIRKEDEEDFPKLIQYSQGQDVQNIKIILEDLINDHEDTGQLLNVMNQLTSDYQTPEEACGTWKLVYQRLQNIERQTHQHVHLENHVLFKKVS |
| 413 | sp|Q9XT18|SGK1\_RABIT | MTVKTEAARGPLTYSRMRGMVAILIAFMKQRRMGLNDFIQKIANNSYACKHTEVQSILKISQPQEPELMNANPSPPPSPSQQINLGPSSNPHAKPSDFHFLKVIGKGSFGKVLLARHKAEEAFYAVKVLQKKAILKKKEEKHIMSERNVLLKNVKHPFLVGLHFSFQTADKLYFVLDYINGGELFYHLQRERCFLEPRARFYAAEIASALGYLHSLNIVYRDLKPENILLDSQGHIVLTDFGLCKENIEHNGTTSTFCGTPEYLAPEVLHKQPYDRTVDWWCLGAVLYEMLYGLPPFYSRNTAEMYDNILNKPLQLKPNITNSARHLLEGLLQKDRTKRLGAKDDFMEIRNHVFFSLINWDDLINKKITPPFNPNVSGPSDLRHFDPEFTEEPVPSSIGRSPDSILITASVKEAAEAFLGFSYAPPMDSFL |
| 414 | sp|Q6CAC5|SHO1\_YARLI | MRQPFSYRPQFQLGLLMGDPFALSTISLGIIGWIIALGGSIGASDQFKNFGWWGLAFEFFVILCVFLVVATDSVEPYRQMLLAFLALATMYVTNSTNNVVYNGTSASSASGAGHILLSIINFLWMIYFGTTHEAGIHAWVDSFAADKGHSYNNDQFAMRRSNPFSLHDQQRQSLGVPGRPVSAYSAGMGGVANYNGLQLGGFENSSNAEPHQASPAFSQQQQQQTATPQQATDSLFVATEYPYRARAVYAYQANPEDANEISFDKGEILDVSDISGRWWQARRDNGEIGICPSNYVELLA |
| 415 | sp|Q84RL6|TIP23\_MAIZE | MVKLAFGSFRDSLSAASLKAYVAEFIATLLFVFAGVGSAIAYSQLTKGGALDPAGLVAIAIAHAFALFVGVSMAANISGGHLNPAVTFGLAVGGHITILTGILYWVAQLLGASVACFLLQYVTHGQAIPTHGVSGISEIEGVVMEIVITFALVYTVYATAADPKKGSLGTIAPMAIGFIVGANILAAGPFSGGSMNPARSFGPAVAAGNFAGNWVYWVGPLVGGGLAGLVYGDVFIASYQPVGQQEYP |
| 416 | sp|P10863|TIR1\_YEAST | MAYTKIALFAAIAALASAQTQDQINELNVILNDVKSHLQEYISLASDSSSGFSLSSMPAGVLDIGMALASATDDSYTTLYSEVDFAGVSKMLTMVPWYSSRLEPALKSLNGDASSSAAPSSSAAPTSSAAPSSSAAPTSSAASSSSEAKSSSAAPSSSEAKSSSAAPSSSEAKSSSAAPSSSEAKSSSAAPSSTEAKITSAAPSSTGAKTSAISQITDGQIQATKAVSEQTENGAAKAFVGMGAGVVAAAAMLL |
| 417 | sp|Q7XEZ1|TI11D\_ORYSJ | MAAAGSSSRFAVTCGLLSQYMRERQQPQPPVTVLEAVAEEEEEEDARTMQLFPPRAAAADGVATPSAGTAPLTIFYDGRMVVVDDVPVEKAAELMRLAGSACSPPQPAHAAALPEMPIARKASLQRFLQKRKHRITTTSEPYKKAAVASPAPEKSFAVAPVKDEPATWLGL |
| 418 | sp|P43637|TOS3\_YEAST | MVLLKEPVQPLPRSSLLYNNASNSSSRIKETRKVKLLYNPLTKRQILNNFEILATLGNGQYGKVKLARDLGTGALVAIKILNRFEKRSGYSLQLKVENPRVNQEIEVMKRCHHENVVELYEILNDPESTKVYLVLEYCSRGPVKWCPENKMEIKAVGPSILTFQQSRKVVLDVVSGLEYLHSQGITHRDIKPSNLLISSNGTVKISDFGVAMSTATGSTNIQSSHEQLLKSRALGTPAFFAPELCSTEKEYSCSSAIDIWSLGVTIYCLLFGKLPFNANSGLELFDSIINKPLEFPSYEEMLNGATSGITMEEYTDAKDLLKKLLQKDPDKRIKLADIKVHPFMCHYGKSDAASVLTNLETFHELKVSPPSSCKRVELVSLPVNSSFASLDSVYMENFDHNNLRTGADRNSTYSPSIYDANTLSPSAYHNIGSRESSYSSFSSFTSSTAFASQISIQDAPAIGDQQCLIGESGSSLRVNSCEFPQYTTMSPVGEYPFESTEASLSSTLTPVGNVPQRIKAHLVEGKSNSKDDLRIEADASLVFEASDAQRTRRRMSLYKL |
| 419 | sp|P9WM79|Y0574\_MYCTU | MAGNPDVVTVLLGGDVMLGRGVDQILPHPGKPQLRERYMRDATGYVRLAERVNGRIPLPVDWRWPWGEALAVLENTATDVCLINLETTITADGEFADRKPVCYRMHPDNVPALTALRPHVCALANNHILDFGYQGLTDTVAALAGAGIQSVGAGADLLAARRSALVTVGHERRVIVGSVAAESSGVPESWAARRDRPGVWLIRDPAQRDVADDVAAQVLADKRPGDIAIVSMHWGSNWGYATAPGDVAFAHRLIDAGIDMVHGHSSHHPRPIEIYRGKPILYGCGDVVDDYEGIGGHESFRSELRLLYLTVTDPASGNLISLQMLPLRVSRMRLQRASQTDTEWLRNTIERISRRFGIRVVTRPDNLLEVVPAANLTSKE |
| 420 | sp|F4I2N7|RLK7\_ARATH | MAPSLRNFNFFHRFSTFLVFSLFSVVSSDDLQVLLKLKSSFADSNLAVFDSWKLNSGIGPCSFIGVTCNSRGNVTEIDLSRRGLSGNFPFDSVCEIQSLEKLSLGFNSLSGIIPSDLKNCTSLKYLDLGNNLFSGAFPEFSSLNQLQFLYLNNSAFSGVFPWKSLRNATSLVVLSLGDNPFDATADFPVEVVSLKKLSWLYLSNCSIAGKIPPAIGDLTELRNLEISDSGLTGEIPSEISKLTNLWQLELYNNSLTGKLPTGFGNLKNLTYLDASTNLLQGDLSELRSLTNLVSLQMFENEFSGEIPLEFGEFKDLVNLSLYTNKLTGSLPQGLGSLADFDFIDASENLLTGPIPPDMCKNGKMKALLLLQNNLTGSIPESYANCLTLQRFRVSENNLNGTVPAGLWGLPKLEIIDIEMNNFEGPITADIKNGKMLGALYLGFNKLSDELPEEIGDTESLTKVELNNNRFTGKIPSSIGKLKGLSSLKMQSNGFSGEIPDSIGSCSMLSDVNMAQNSISGEIPHTLGSLPTLNALNLSDNKLSGRIPESLSSLRLSLLDLSNNRLSGRIPLSLSSYNGSFNGNPGLCSTTIKSFNRCINPSRSHGDTRVFVLCIVFGLLILLASLVFFLYLKKTEKKEGRSLKHESWSIKSFRKMSFTEDDIIDSIKEENLIGRGGCGDVYRVVLGDGKEVAVKHIRCSSTQKNFSSAMPILTEREGRSKEFETEVQTLSSIRHLNVVKLYCSITSDDSSLLVYEYLPNGSLWDMLHSCKKSNLGWETRYDIALGAAKGLEYLHHGYERPVIHRDVKSSNILLDEFLKPRIADFGLAKILQASNGGPESTHVVAGTYGYIAPAEYGYASKVTEKCDVYSFGVVLMELVTGKKPIEAEFGESKDIVNWVSNNLKSKESVMEIVDKKIGEMYREDAVKMLRIAIICTARLPGLRPTMRSVVQMIEDAEPCRLMGIVISKESDVKVKEIS |
| 421 | sp|Q9SYH1|RSH3C\_ARATH | MVVATTIALYASPASTVCSTAHQINAHISCDLDLNSRSSSASSSTSSPTIGGLSLLFSGASVKSSSSSSSSHPSVGEELASIRHDRSEDRTLSGSFCYSPSKFIGSSYLKRDHQSPVSVLHGPISSGNSPPMRISRDRNLDGGSALRVGSSRLFNGFVRKAIGSCVDYDTDSVLVDEQLPFTMDDGFEGERRQPYARDLLRRAQLKHKIFEDESVIKAFYEAEKAHRGQMRATGDPYLQHCVETAMLLADIGANSTVVVAGILHDTLDDSFMSYDYILRTFGSGVADLVEGVSKLSQLSKLARENNTACKTVEADRLHTMFLAMADARAVLIKLADRLHNMMTLYALPPVKRQRFAKETLEIFAPLANRLGISSWKVKLENLCFKHLHPDQHHEMSDMLEDSFDEAMITSAIEKLEQALKKEGISYHVVSGRHKSLYSIYCKMLKKKLTMDEIHDIHGLRLIVDNEKDCYKALGVVHKLWSEVPGKLKDYISHPKFNGYQSLHTVVMGDGTIPLEVQIRTKEMHLQAEFGFAAHWRYKEGDCKHSSFVLQMVEWARWVVTWHFETMSKDGSSICSSEPLCSFPSHAEDCPFSYKPSGNQEGPVYVIVIENEKMTVQEFPENSTVSDLLRRAGPGSSRWSMYSIPAKEELRPRLNQTPVSDLKCKLKMGDVVELTPAIPDKSLTEYREEIQRMYDRGLAFSRPHRAATGTMVGWGS |
| 422 | sp|Q84PD8|SAP11\_ORYSJ | MAQREKKVEEPTELRAPEMTLCANSCGFPGNPATNNLCQNCFLAASASSSSSSAAASPSTTSLPVFPVVEKPRQAVQSSAAAAVALVVERPTAGPVESSSKASRSSSVNRCHSCRRRVGLTGFRCRCGELYCGAHRYSDRHDCSFDYKSAARDAIARENPVVRAAKIVRF |
| 423 | sp|Q6Z541|SAP12\_ORYSJ | MEEQQAAAAGGGGGGGGASMCANGCGFFGSEATKKLCSKCYRDQLKAAPSSPPAAPDLVANEEEEASTAAAAAADEQLALCSSGCGFFGSKETNNMCSKCYRDHLKATSPLFSSSSSPATASTTDITVPIAPATTAPTPSLKGKEEEATAAASSSAAAAAKPNRCVACRKKVGLLGFECRCGGTFCSTHRHADKHACTFDFKKSDREKIAKENPLIVAPKITKF |
| 424 | sp|A7MJM9|SBMC\_CROS8 | MDYTIEHVLTRKIAGFHLVGPWEKTVPQGFEQLSLWVDNFHIQPQAWLAVYYDNPQQVAPEKLRADTVVEVPADFTLPENSVGVILTDLPGGQYAVARARVENNDFGTPWLAFFTRLHQDVRYQMAARPCFEIYLNDGKRDGYWDIDMYIPVQTSGE |
| 425 | sp|P76136|SAFA\_ECOLI | MHATTVKNKITQRDNYKEIMSAIVVVLLLTLTLIAIFSAIDQLSISEMGRIARDLTHFIINSLQG |
| 426 | sp|O04023|SRC2\_ARATH | MECRSLDLTIISAEDLKDVQLIGKQDLYAVVSINGDARTKQKTKVDKDCGTKPKWKHQMKLTVDDAAARDNRLTLVFEIVADRPIAGDKPVGEVSVPVKELLDQNKGDEEKTVTYAVRLPNGKAKGSLKFSFKFGEKYTYGSSSGPHAPVPSAMDHKTMDQPVTAYPPGHGAPSAYPAPPAGPSSGYPPQGHDDKHDGVYGYPQQAGYPAGTGGYPPPGAYPQQGGYPGYPPQQQGGYPGYPPQGPYGYPQQGYPPQGPYGYPQQQAHGKPQKPKKHGKAGAGMGLGLGLGAGLLGGLLVGEAVSDIADMGDMGDMGDMGGFDF |
| 427 | sp|Q6G913|SODM1\_STAAS | MAFELPKLPYAFDALEPHFDKETMEIHHDRHHNTYVTKLNAAVEGTDLESKSIEEIVANLDSVPANIQTAVRNNGGGHLNHSLFWELLSPNSEEKGTVVEKIKEQWGSLEEFKKEFADKAAARFGSGWAWLVVNNGQLEIVTTPNQDNPLTEGKTPILGLDVWEHAYYLKYQNKRPDYIGAFWNVVNWEKVDELYNATK |
| 428 | sp|Q5A4M8|SUR7\_CANAL | MKVVFTFFNLFFLAGTVLLLIFTVLSGSSKHFPLNKFYWLEADTSGIKNAPANRSAWTFWGVCDKADYSNCLLGPAYPISPEDNFGTTADIPKDFVDNENTYYYLSRFAFAFCLIALAFSGLAFIIDILGFCFEIIDKVVIFLITIGLLFLAGFASLQTAVVVLAKNAFKNDGRYAHIGAKSMGIMWAAFACLLICWLLIFAGTISNSYKKHIARVKAEQGQYSQPTHGPAGDESSFTRAAPPTKDEENTGGIRFFKIKRNQKVSDDESV |
| 429 | sp|Q10KF5|TPP9\_ORYSJ | MTKHGAVVVPEDAVVAAAAVGRHFSFPPPRTGGVGGDSCKKLAAQQIDLGAAVIGSWLDSMKASSPRHRLVAPAVAAAAADAEHDEWMEKHPSALGKFEALAAAAKGKRIVVFLDYDGTLSPIVEDPDRAVMTDEMRDAVRGVAARFPTAIVSGRCRDKVLSFVGLEELYYAGSHGMDIQGPTNAAASKGGEEEEESVLCQPAREFLPMIGEAYAALVEKVEGVIPGAKVENNKFCLSVHFRRVDERRWGAVADQVRAVLRGYPRLRLTQGRKVLEVRPAIKWDKGEALRFLLSALGFSAAGDVEDDGDDDDAFPIYIGDDRTDEDAFRVLRARGHGAGILVSRFPKDTCASFSLRDPGEVKDFLRKLVTCAAA |
| 430 | sp|P36135|UTH1\_YEAST | MKLSALLALSASTAVLAAPAVHHSDNHHHNDKRAVVTVTQYVNADGAVVIPAATTATSAAADGKVESVAAATTTLSSTAAAATTSAAASSSSSSSSSSSSSSSVGSGDFEDGTISCSDFPSGQGAVSLDWLGLGGWASIMDMNGNTATSCQDGYYCSYACSPGYAKTQWPSEQPSDGRSVGGLYCKNGKLYRSNTDTNSLCVEGQGSAQAVNKVSGSIAICGTDYPGSENMVVPTVVGAGSSQPINVIKEDSYYQWQGKKTSAQYYVNNAGVSVEDGCIWGTEGSGVGNWAPVVLGAGYTDGITYLSIIPNPNNKEAPNFNIKIVATDGSTVNGACSYENGVYSGSGSDGCTVSVTSGSANFVFY |
| 431 | sp|P9WMU1|WAG31\_MYCTU | MPLTPADVHNVAFSKPPIGKRGYNEDEVDAFLDLVENELTRLIEENSDLRQRINELDQELAAGGGAGVTPQATQAIPAYEPEPGKPAPAAVSAGMNEEQALKAARVLSLAQDTADRLTNTAKAESDKMLADARANAEQILGEARHTADATVAEARQRADAMLADAQSRSEAQLRQAQEKADALQADAERKHSEIMGTINQQRAVLEGRLEQLRTFEREYRTRLKTYLESQLEELGQRGSAAPVDSNADAGGFDQFNRGKN |
| 432 | sp|Q6GK53|SCDA\_STAAR | MINKNDIVADVVTDYPKAADIFRSVGIDFCCGGQVSIEAASLEKKNVDLNELLQRLNEVEQTNTPGSLNPKFLNVSSLIQYIQSAYHEPLREEFKNLTPYVTKLSKVHGPNHPYLVELKETYDTFKNGMLEHMQKEDDVDFPKLIKYEQGEVVDDINTVIDDLVSDHIATGQLLVKMSELTSSYEPPIEACGTWRLVYQRLKALEVLTHEHVHLENHVLFKKVS |
| 433 | sp|Q55027|SRPC\_SYNE7 | MKDSDSLLHVHPAYSLKQLTQYFLKLGALGFGGPIALVGYMHRDLVEERQWVSEAEYQEGLTLAQVAPGPLAAQLSFYLGYVHYGFLGSALVGLAFVLPSFLIVVALGWAYTLYGGLNWMQAVFYGVGAAVIGIIAISAYKLTRKTVGTSWLLWSIYLVNAATTIVTESERVELILGSGALVLLVKFPPKHWIKQNRLNSFIGLPLIPLFAAVPTATTSLLGQIALFFTQAGAFVFGSGLAIVPFLYGGVVKDFGWLNSQQFLDAVAVAMITPGPVVITTGFIGFLVAGFPGACVAAIAMFIPCYLLTVIPAPYFKKHGKNPKISTFVNGVTVAATGAIAGAVVVLGRQSLHDLPTFLIGLIALISSWKLGKKLPEPLIIVIAAIAGVIFWSK |
| 434 | sp|P0A0J2|SODM1\_STAAW | MAFELPKLPYAFDALEPHFDKETMEIHHDRHHNTYVTKLNAAVEGTDLESKSIEEIVANLDSVPANIQTAVRNNGGGHLNHSLFWELLSPNSEEKGTVVEKIKEQWGSLEEFKKEFADKAAARFGSGWAWLVVNNGQLEIVTTPNQDNPLTEGKTPILGLDVWEHAYYLKYQNKRPDYIGAFWNVVNWEKVDELYNATK |
| 435 | sp|Q9M111|SUS3\_ARATH | MANPKLTRVLSTRDRVQDTLSAHRNELVALLSRYVDQGKGILQPHNLIDELESVIGDDETKKSLSDGPFGEILKSAMEAIVVPPFVALAVRPRPGVWEYVRVNVFELSVEQLTVSEYLRFKEELVDGPNSDPFCLELDFEPFNANVPRPSRSSSIGNGVQFLNRHLSSVMFRNKDCLEPLLDFLRVHKYKGHPLMLNDRIQSISRLQIQLSKAEDHISKLSQETPFSEFEYALQGMGFEKGWGDTAGRVLEMMHLLSDILQAPDPSSLEKFLGMVPMVFNVVILSPHGYFGQANVLGLPDTGGQVVYILDQVRALETEMLLRIKRQGLDISPSILIVTRLIPDAKGTTCNQRLERVSGTEHTHILRVPFRSEKGILRKWISRFDVWPYLENYAQDAASEIVGELQGVPDFIIGNYSDGNLVASLMAHRMGVTQCTIAHALEKTKYPDSDIYWKDFDNKYHFSCQFTADLIAMNNADFIITSTYQEIAGTKNTVGQYESHGAFTLPGLYRVVHGIDVFDPKFNIVSPGADMTIYFPYSEETRRLTALHGSIEEMLYSPDQTDEHVGTLSDRSKPILFSMARLDKVKNISGLVEMYSKNTKLRELVNLVVIAGNIDVNKSKDREEIVEIEKMHNLMKNYKLDGQFRWITAQTNRARNGELYRYIADTRGAFAQPAFYEAFGLTVVEAMTCGLPTFATCHGGPAEIIEHGLSGFHIDPYHPEQAGNIMADFFERCKEDPNHWKKVSDAGLQRIYERYTWKIYSERLMTLAGVYGFWKYVSKLERRETRRYLEMFYILKFRDLVKTVPSTADD |
| 436 | sp|P22240|TAS14\_SOLLC | MAQYGNQDQMRKTDEYGNHVQETGVYQGTGTGGMMGGTGTGGMMGGTGGEYGTQGMGTGTHHHEGQQQLRRSDSSSSSEDDGEGGRRKKGLKEKIMEKMPGQHEGEYGQTTGEEKKGMMDKIKDKIPGMH |
| 437 | sp|Q8SSL2|TPS1\_ENCCU | MKLLVVSNRLPLTVKKSKDGFEYTKTSGGLVTGLRGISDKIRFMWLGNISGVELDEEEKKVIRKDCWEKFHSIPVFIDPVLNSNSYDGFCNAILWPIIHSFKDDVAFTIKDYNAYVEYNTIFCEEICKIVEDGDIVWVHDYHLMILPEMLRKKSDKSFKIMFFLHAQFPPAEIMETLACRREIVSGMAHSDLIAFHSFDYAINFDDTCRANKVEVRSKLDAIPIGIDPAMFRSALKEEKTVERIKELREMFRGRKILLGVDRTDYIKGMPHRVKGFQRFLEKHPEFLDNVVFLQVGVPSRTSVKEYSSYITKMNELVSETNSKFGSIESVHLYFLNKSVDFNELCALYAVSDMLLVTSLQDGMNLVALEYISCQNENNGVLLLSSNAGASTTLPAAVEVNSWNTEEIADGIHRAITMSLEERTERHEINRKAVDTFTSVEWAEKNLDGLCDDWRESLML |
| 438 | sp|O32272|TUAC\_BACSU | MKILWITSVYPSSMKPGEGVFHETQVQELQKLGLDITVICPRPFHSAPVRMLKKTYRKKDVRPEYEIRKGIPVYRPFYRAVPGQLKWAQPHRRIASAVLKTMKQRDLYPDLIHAHFAMPSGGAAAVVSESAQIPYVLTLHGSDVNVYPHYSKGAFKAFKRAVGSASVVLAVSHKLQEEAKKLSGFDSSVLPIGIQLSRFQGNEETKEEIRKRLGLPLDQRLAVYVGRLVREKGIFELSEAIESLQDSPKAVFVGDGPAKSTLTQKGHIVTGQVPNHQVRDYLLAADLFVLPSYSEGMPTVVIEALALRVPVICTDVGGVSSLFGKHQHLLIKPKSAQALAEAITRYEHEQIWKPEVADDLYETVQAQFDAGKNAKALHHQYQTVTKTSV |
| 439 | sp|Q8FHF9|SAFA\_ECOL6 | MHATTVKNKITQRDNYKEIMSVIVVVLLLTLTLIAIFSAIDQLGISEMGRIARDLTHFIINSLQD |
| 440 | sp|Q5Q0U5|SGK1\_FUNHE | MTIKTETEKPALTYSKTRGLVELITAFMKQRRMGLNDFIQKLATNSYACKHPEVQSILNLTPPQDPELMNSNPSPPPSPSQQINLGPSSNPSAKPSDFHFLKVIGKGSFGKVLLARHRTDDQFYAVKVLQKKAILKKKEEKHIMSERNVLLKNVKHPFLVGLHYSFQTADKLYFVLDYINGGELFYHLQRERCFLEPRARFYSAEIASALGYLHSLNIVYRDLKPENILLDSQGHIILTDFGLCKENIEPNGTTSTFCGTPEYLAPEVLHKQPYDRTVDWWCLGAVLYEMLYGLPPFYSRNTAEMYDNILNKPLQLKPNISNAARHLLEGLLQKDRTKRLGCKDDFTEIKNHVFFSPINWDDLNAKKMTPPFNPNVTGPNDLRHFDPEFTDEPVPSSIGCSPDCALATASIKEAAEAFVGFSYAPSMDSYL |
| 441 | sp|Q9TYT3|SHCH1\_CAEEL | MLNVEPSFAEELRSSGVSLSATYLGSVPVVESINVMVSEMRVQVVSECIQHVAATVGVTAAREINPVVSRVIGEVKKENFPVDINISSKMIKIIKQSRLIQRHPFSFFSFGAQGQKGTDTELMFGYIAKNKDGTDRRCHVVFIEDVHKLIDVLTTAINVNTFDAQANASTSNDGFTVPAPPMRHRSSLHRQSFVSNCRAPTVTEDVVGKVWYHGNLSREDAQALLKTEGDFLVRQSDHTPGKYVLSGRTAENEHKHLILLDNHNRVRTRDRTFSNISELIDYHVNNGMAVRSEGRDRETSLNLIRPVPCPGSDDIE |
| 442 | sp|Q6CP77|SHO1\_KLULA | MALIKASQARAVRENPHVSHQFNISSFLGDPFAIGTLSIALISWIIALAGSIAVAASTSPFPRFSWWTIVYEILLMITLFIVYCLDLVDYYRMFITCAVGIAFVYTSNSTNSIVYYEGSKSGAAAAGFILLSMINLVWVIYFGGDNASPTNRWIDSFSLRGIRPSVLETSMAIARSQRLPVKPSYPYQYQEDLRSASLPDVHHDDEGEGHSGNMYAPELQSSTKYVSSTVLNGFENTDHSSSKPNLDVNAQNTATLNTQATGTFITDTTNANTDTTMGDTLGLYSDIGEELNSFPYTAEALYTYQADQTDAYEISFEQGEILRVGDIEGRWWKAKKSNGETGIIPSNYVKLLDGKSH |
| 443 | sp|Q8S9G8|SPL7\_ARATH | MSSLSQSPPPPEMDIQPPALVNDDPSTYSSALWDWGDLLDFAADERLLVDQIHFPPVLSPPLPPLIPTQTPAESELDPSPEESGSGSDRVRKRDPRLICSNFIEGMLPCSCPELDQKLEDAELPKKKRVRGGSGVARCQVPDCEADISELKGYHKRHRVCLRCATASFVVLDGENKRYCQQCGKFHLLPDFDEGKRSCRRKLERHNNRRKRKPVDKGGVAAEQQQVLSQNDNSVIDVEDGKDITCSSDQRAEEEPSLIFEDRHITTQGSVPFTRSINADNFVSVTGSGEAQPDEGMNDTKFERSPSNGDNKSAYSTVCPTGRISFKLYDWNPAEFPRRLRHQIFQWLANMPVELEGYIRPGCTILTVFIAMPEIMWAKLSKDPVAYLDEFILKPGKMLFGRGSMTVYLNNMIFRLIKGGTTLKRVDVKLESPKLQFVYPTCFEAGKPIELVVCGQNLLQPKCRFLVSFSGKYLPHNYSVVPAPDQDGKRSCNNKFYKINIVNSDPSLFGPAFVEVENESGLSNFIPLIIGDAAVCSEMKLIEQKFNATLFPEGQEVTACSSLTCCCRDFGERQSTFSGLLLDIAWSVKVPSAERTEQPVNRCQIKRYNRVLNYLIQNNSASILGNVLHNLETLVKKMEPDSLVHCTCDCDVRLLHENMDLASDIHRKHQSPIESKVNPPSSGCCCVSSQKDIPSRILNFNKDPEAGLDCKERIQADCSPDSGGKETDPLLNKEVVMNVNDIGDWPRKSCIKTHSALAFRSRQTMFLIATFAVCFAVCAVLYHPNKVTQLAVAIRMRLVHKI |
| 444 | sp|A9TF79|SRK2A\_PHYPA | MDIPSMHDHDRYELVKDIGSGNFGVARLMRDKKTRELVAVKYIERGEKIDENVQREIINHRSLRHPNIVRFKEVMLTPTHLAIVMEYAAGGELFERICNAGRFSEDEARFFFQQLISGVSYCHSMQICHRDLKLENTLLDGSPAPRLKICDFGYSKSSLLHSQPKSTVGTPAYIAPEVLSKKEYDGKIADVWSCGVTLYVMLVGAYPFEDPEDPRNFRKTIGRILSVQYSIPDYVHISVECRHLLSRIFVANPAKRINIQEIKNHEWFLKNLPADLVDLADRSYDFEDPNHPPQSIEEIMRIISEARVLGTGATGDYFGDSVDDMDLENDVDPDADPDVGSSGEFVCAM |
| 445 | sp|P66830|SODM2\_STAAM | MAFKLPNLPYAYDALEPYIDQRTMEFHHDKHHNTYVTKLNATVEGTELEHQSLADMIANLDKVPEAMRMSVRNNGGGHFNHSLFWEILSPNSEEKGGVIDDIKAQWGTLDEFKNEFANKATTLFGSGWTWLVVNDGKLEIVTTPNQDNPLTEGKTPILLFDVWEHAYYLKYQNKRPDYMTAFWNIVNWKKVDELYQAAK |
| 446 | sp|Q5FVF4|TM7S3\_RAT | MWRLRLLVLAVLAAGSAEAQANSSDGFLEFSVGKFTYFVLSRRFPQEAVLRHISSNVTFLLFQIHSQYQNTTVSYTKTLLPSTSGTGNDRGLVFILRPEQTVCTWYLETEDTKPVQSVAVTLSYSERDPIPGGCNLEFDLDIDPNIYLDYNFFETTIKFAPANIGYARAAEPPPCDVSTGQESRWRLRYHVYQYFLPEGDLTEASLLQHLQRMAQVVQVMASAVKVVTLTADDKTVVSFSSLPGQGVIYNVIVWDPSLNTSAAYVPVHTYACSFDSVDGNCVPPGRVSTKVFSTLFALLGLFTCFFGHRFWKTELFFVGFIFLGFFFYILITRLTALKYEVRLVLTAVAGSIGGLLLVASWWRFGILTLCMLCVGLVLGFLVSSGTFFTPLGNLNVFHDDGVFWVTFSCIALLVPVIFLGCLRILNILACGIVGSYSVVLAINSYMFTSLSYITLNVLRRALNADFRGAFIRVPFQTNDYIILAVWGMLAVTGITLQIRRERGRPPFPPHPYKLWKQERERRVTNILDPSHHIPPLRERLYGWVARIKELFQKEQPAGERTPLLL |
| 447 | sp|Q9R1S4|XBP1\_RAT | MVVVAAAPSAASAAPKVLLLSGQPASGGRALPLMVPGPRAAGSEASGTPQARKRQRLTHLSPEEKALRRKLKNRVAAQTARDRKKARMSELEQQVVDLEEENQKLQLENQLLREKTHGLVIENQELRTRLGMNALVTEEVSEAESKGNGVRLVAGSAESAALRLRAPLQQVQAQLSPPQNIFPWILTLLPLQILSLISFWAFWTSWTLSCFSNVLPQSLLIWRNSQRSTQKDLVPYQPPFLCQWGPHQPSWKPLMNSFVLTMYTPSL |
| 448 | sp|Q54QE8|Y3913\_DICDI | MFVGTLVIIICTTLIIIIKKILKRKKEKLNLKESKKKKQDNERKNFEGLLTKKRVEVGDLKKEIEKLNKDKIELAKKLNCYIGDSSIPANGIREYDIIIDIPSVDYLSQSRKSWIIYVSNQLKQKMGSSNYNKKRPLHSLLKEYKKFSTLACLGVLNKGKTFFINKYNGTYLPSGTQAQTIGLSLSISSLNETITIDTAGSNTALQVCEDKTEEHLARKESTEMFICDMSFSLASIIVYVLNELTWNDQRFILALQSKIQSLRSESNIIKKLLVVHNYPKVNSQEELLSEIKTYIESPFNGNFHHHHVDIKKIESKEEIVLFFVESVNKTHHFFLCNDNSEFGKRYNQLTIEKIRTYKNYNDNLDLDKVLLTSLQNNMIPYCKSPKKLKITEHEPTINQINNNNSSNNKSQLEERPIADSLFQTQSFLHPSIDDTIQDNDKSGSEVSTPTISSSSSSPLQPIIKDEKDDNIENKSDEANTSLKYKPLFTSFGTDEYSKHLKELCKLHQMVSPHRSSIKQIPAFTISPEIDCNRENDFKLIANRIEIIGLNMVFSSGFKPFHDIVKVNSDLRYIIEVPQLEMEDIEFETKHLGSQWYLNIKGIKKLRYDSNDQTTVYPSNLTSLCPSQNQRRDGLFEFSLPIPTEYLPIKPAVSLDKGVITFKFEKIG |
| 449 | sp|Q5AW46|Y7484\_EMENI | MAGFASANLLERVPEDEVLPAEFTVKAPPETDIWAKPPSTERFNAPILYKSIPLDTFKRARVAFSANWSQKYDQGGLIIVLNGNSGDRKWVKTGIEFTHDKPHLSTVAKDRWADWSLLPVPSGGTGATLEVVREPDDSLWIYLIQGVQKSPIREVTWVFAEEDVRDAWIGVYAARPSSAGGDLVVNFASLIIEVTDSTTK |
| 450 | sp|C1P604|YOBI\_ECOLI | MYIFITHFFTEYVILKYLLPI |
| 451 | sp|Q59WC6|YPD1\_CANAL | MSEDKLQKLQDSGLVDWAVFSEIVTMDEDEEGFSKSLVEVFVSQVEETFEEIDKYLKEKNLEKLSSSGHFLKGSAAALGLTKISNQCERIQNYGHKINFDNFQLEDIKTKGDSAVSAENVAVNDGETNPENGSNGNETSNNKTNTSNIPDESSDDFWIALIEDALAKARDGFDQSRRALDEYYE |
| 452 | sp|C6ECL5|SPY\_ECOBD | MRKLTALFVASTLALGAANLAHAADTTTAAPADAKPMMHHKGKFGPHQDMMFKDLNLTDAQKQQIREIMKGQRDQMKRPPLEERRAMHDIITSDTFDKVKAEAQIAKMEEQRKANMLAHMETQNKIYNILTPEQKKQFNANFEKRLTERPAAKGKMPATAE |
| 453 | sp|P31212|TD\_SOLTU | PFDAPGVIKGQGTIGTEINRQLKDIHAVFVPVGGGGLISGVAAYFTQVAPHTKIIGVEPYGAASMTLSLYEGHRVKLENVDTFADGVAVALVGEYTFAKCQELIDGMVLVRNDGISAAIKDVYDEGRNILETSGAVAIAGAAAYCEFYNIKNENIVAIASGANMDFSKLHKVTELAELGSDNEALLATFMIEQPGSFKTFAKLVGSMNITEVTYRFTSERKEALVLYRVDVDEKSDLEEMIKKLNSSNMKTFNFSHNELVAEHIKHLVGGSASISDEIFGEFIFPEKAGTLSTFLEAFSPRWNITLCRYRDQGDINGNVLVGFQVPQSEMDEFKSQADGLGYPYELDNSNEAFNIVVAE |
| 454 | sp|Q9ATB4|TAD2B\_ARATH | MGRSRGNFQNFEDPTQRTRKKKNAANVENFESTSLVPGAEGGGKYNCDYCQKDITGKIRIKCAVCPDFDLCIECMSVGAEITPHKCDHPYRVMGNLTFPLICPDWSADDEMLLLEGLEIYGLGNWAEVAEHVGTKSKEQCLEHYRNIYLNSPFFPLPDMSHVAGKNRKELQAMAKGRIDDKKAEQNMKEEYPFSPPKVKVEDTQKESFVDRSFGGKKPVSTSVNNSLVELSNYNQKREEFDPEYDNDAEQLLAEMEFKENDTPEEHELKLRVLRIYSKRLDERKRRKEFIIERNLLYPNPFEKDLSQEEKVQCRRLDVFMRFHSKEEHDELLRNVVSEYRMVKRLKDLKEAQVAGCRSTAEAERYLGRKRKRENEEGMNRGKESGQFGQIAGEMGSRPPVQASSSYVNDLDLIGFTESQLLSESEKRLCSEVKLVPPVYLQMQQVMSHEIFKGNVTKKSDAYSLFKIDPTKVDRVYDMLVKKGIAQL |
| 455 | sp|A5C9M2|THS5\_VITVI | MASVEEIRNAQRAKGPATILAIGTATPDHCVYQSDYADYYFKVTKSEHMTELKKKFNRICDKSMIKKRYIHLTEEMLEEHPNIGAYMAPSLNIRQEIITAEVPKLGKEAALKALKEWGQPKSKITHLVFCTTSGVEMPGADYKLANLLGLETSVRRVMLYHQGCYAGGTVLRTAKDLAENNAGARVLVVCSEITVVTFRGPSEDALDSLVGQALFGDGSAAVIVGSDPNVSIERPLFQLVSAAQTFIPNSAGAIAGNLREVGLTFHLWPNVPTLISENIEKCLSQAFDPLGISNWNSLFWIAHPGGPAILDAVEAKLNLEKKKLEATRHVLSEYGNMSSACVLFILDEMRKKSLKGEKATTGEGLDWGVLFGFGPGLTIETVVLHSVPMVTN |
| 456 | sp|Q75WV3|TPP1\_ORYSJ | MDLSNSSPVITDPVAISQQLLGGLPSNLMQFSVMPGGYSSSGMNVGVSRLKIEEVLVNGLLDAMKSSSPRRRLNVAFGEDNSSEEEDPAYSAWMAKCPSALASFKQIVASAQGKKIAVFLDYDGTLSPIVDDPDKAVMSPVMRAAVRNVAKYFPTAIVSGRSRNKVFEFVKLKELYYAGSHGMDIMAPSANHEHSAEKSKQANLFQPAHDFLPMIDEVTKSLLQVVSGIEGATVENNKFCVSVHYRNVAEKDWKLVARLVNEVLEAFPRLKVTNGRMVLEVRPVIDWDKGKAVEFLLQSLGLNDSENVIPIYIGDDRTDEDAFKVLRQRNCGYGILVSQVPKETEAFYSLRDPSEVMEFLNFLVRWKKHSV |
| 457 | sp|Q8GWG2|TPPH\_ARATH | MVRFIEENTKLVEKETGNKSNNDVTTTKKKALQDIIINNGVGLINSWVDSMRACSPTHLKSLLKQSSWLTEHPSALDMFEEILHLSEGKQIVMFLDYDGTLSPIVDDPDRAFMSRKMRRTVRKLANCFPTAIVSGRCIEKVYNFVKLTELYYAGSHGMDIKGPEQGSKYEQILQDSKSLLCQPATEFLPMIDEVYHKLVEKTKSTPGAQVENNKFCVSVHFRRVDENNWSDLANQVRSVMKDYPKLRLTQGRKVLEVRPIIKWDKGKALEFLLESLGYANCTDVFPLYIGDDRTDEDAFKVLRERRQGLGILVSKFPKETSASYSLQEPDEVMEFLQRLVEWKQLRSGA |
| 458 | sp|P21734|UBC1\_YEAST | MSRAKRIMKEIQAVKDDPAAHITLEFVSESDIHHLKGTFLGPPGTPYEGGKFVVDIEVPMEYPFKPPKMQFDTKVYHPNISSVTGAICLDILKNAWSPVITLKSALISLQALLQSPEPNDPQDAEVAQHYLRDRESFNKTAALWTRLYASETSNGQKGNVEESDLYGIDHDLIDEFESQGFEKDKIVEVLRRLGVKSLDPNDNNTANRIIEELLK |
| 459 | sp|P15731|UBC4\_YEAST | MSSSKRIAKELSDLERDPPTSCSAGPVGDDLYHWQASIMGPADSPYAGGVFFLSIHFPTDYPFKPPKISFTTKIYHPNINANGNICLDILKDQWSPALTLSKVLLSICSLLTDANPDDPLVPEIAHIYKTDRPKYEATAREWTKKYAV |
| 460 | sp|O35426|XBP1\_MOUSE | MVVVAAAPSAATAAPKVLLLSGQPASGGRALPLMVPGPRAAGSEASGTPQARKRQRLTHLSPEEKALRRKLKNRVAAQTARDRKKARMSELEQQVVDLEEENHKLQLENQLLREKTHGLVVENQELRTRLGMDTLDPDEVPEVEAKGSGVRLVAGSAESAALRLCAPLQQVQAQLSPPQNIFPWTLTLLPLQILSLISFWAFWTSWTLSCFSNVLPQSLLVWRNSQRSTQKDLVPYQPPFLCQWGPHQPSWKPLMNSFVLTMYTPSL |
| 461 | sp|Q9FL26|WRKY8\_ARATH | MSHEIKDLNNYHYTSSYNHYNINNQNMINLPYVSGPSAYNANMISSSQVGFDLPSKNLSPQGAFELGFELSPSSSDFFNPSLDQENGLYNAYNYNSSQKSHEVVGDGCATIKSEVRVSASPSSSEADHHPGEDSGKIRKKREVRDGGEDDQRSQKVVKTKKKEEKKKEPRVSFMTKTEVDHLEDGYRWRKYGQKAVKNSPYPRSYYRCTTQKCNVKKRVERSYQDPTVVITTYESQHNHPIPTNRRTAMFSGTTASDYNPSSSPIFSDLIINTPRSFSNDDLFRVPYASVNVNPSYHQQQHGFHQQESEFELLKEMFPSVFFKQEP |
| 462 | sp|P38268|YBW6\_YEAST | MQPKNCTILKKSKQELFPCQTFILLTGKVKNTDSLFYQTVFRSCPLKYWLLQAGVSMLINRSDSTNLVVQARGLKFTNCSISQRTVLRQGLKRQSITTKESSCFLLWEELSKSEEVNSSLLFHTSWLMVTCCLKYIYMYDICTCFLFCAFVTSIFIETDYSIFFLLTASRGIAQF |
| 463 | sp|A4WC16|SBMC\_ENT38 | MDYSIKQQQKRKIAGFHMVGPWEQTVKQGFEQLMMWVDGHHIQPLEWVAVYYDNPDEVPAEKLRCDTVVTVPDDFVIPANSEGVILTEVAAGDYAIATARVENYDFGTPWHSFFNSLLQDNHYQIAPKPCFERYLNDGNADGYWDIEMFVPVQNKAG |
| 464 | sp|Q94AK4|RZF1\_ARATH | MSSIRNTHWCHRCQRAVWLRARDAVCSYCGGGFVEEIDIGPSRAHRDVERDPTFDLMEAFSAFMRSRLAERSYDREISGRLGSAGSESFSNLAPLLIFGGQAPFRLAGGDNSSVEAFVNGAAPGIGIARGTNAGDYFFGPGLEELIEQLSSGTHHRGPPPAPKSSIDALPTIKITQKHLKSSDSHCPVCKDEFELKSEAKQMPCHHIYHSDCIVPWLVQHNSCPVCRKELPSRGSSSSTQSSQNRSTNGRENSRRRNIFSNLWPFRSSSSSSTQNRRDTNNTATAEEGHYHHHQQQQQQHQHQHQQQQSHMGYSGWPFDY |
| 465 | sp|Q3Z1P4|SAFA\_SHISS | MYATTVKNKITQRDNYKEIMSVIVVVLLLTLTLIAIFSAIDQLGISEMGRIARDLTHFIINSLQD |
| 466 | sp|Q8XAX0|SAFA\_ECO57 | MHATTVKNKITQRDNYKEIMSVIVVILLLTLTLIAIFSAIDQLGISEMGRIARDLTHFIVNSLQD |
| 467 | sp|A0R006|WAG31\_MYCS2 | MPLTPADVHNVAFSKPPIGKRGYNEDEVDAFLDLVENELTRLIEENADLRQRVAELDQELAAARSGAGASSQATSSIPLYEPEPEPAPAPPQPVYEAPAQPAAPQSEDTAVRAARVLSLAQDTADRLTSTAKAEADKLLSDARAQAEAMVSDARQTAETTVSEARQRADAMLADAQTRSEAQLRQAQEKADALQADAERKHSEIMGTINQQRTVLEGRLEQLRTFEREYRTRLKTYLESQLEELGQRGSAAPVDSSANSDASGFGQFNRGNN |
| 468 | sp|Q3SZZ2|XBP1\_BOVIN | MVVVAPAQSPAAGAPKVLLLSGQPAATGGAPAGRALPVMVPGQQGASPEGASGVPPQARKRQRLTHLSPEEKALRRKLKNRVAAQTARDRKKARMSELEQQVVDLEEENQKLLLENQLLREKTHGLVVENQELRQRLGMDALVTEEEAETKGNGAGLVAGSAESAALRLRAPLQQVQAQLSPLQNISPWTLMALTLQTLSLTSCWAFCSTWTQSCSSDVLPQSLPAWSSSQKWTQKDPVPYRPPLLHPWGRHQPSWKPLMN |
| 469 | sp|Q5B288|Y5342\_EMENI | MVRVSRGCQSCVDAKLQSTPSPSPSKSPSPTESPEQCLQKRQSGEQVVLPSRPFPRTSPRAEYRPVPLLALDGYINPSLTVTAVNSQQAQVFTNYVLASFPCFFRCTETRVPVNWVEYVDQRGSSMNSCFDWAVRACTSAYLGSLHDDQRYLVASRSLYHRALRGLGNLLSSEKTAKSDEVLASAIVLAIFEKHNCSSPDAWLRHAAGIRTLMKLRGPKAHLEGFGRAMYIVYRNFLITAALVEGEACFLEEPEWQALNEEIAASDAKLPTSSLYTDVVERGFLSVIKIPGLVKRTRELQCLSSKKRAEVQPALLQDVQATRAGLRGIYTEFGVAVSMLRSGQDENDTFVGPVPNFFFEGYSSLFARGVRLGLLILNYLIVIMDPKQRATIDSENFMLLNDMTRSQRSTHPALEFKLPLTPPKSPGRPGLVVRSLITEETREPPTTDWMDRITSTMGLEAVHVSLVG |
| 470 | sp|C1P5Z8|YKGR\_ECOLI | MKENKVQQISHKLINIVVFVAIVEYAYLFLHFY |
| 471 | sp|B5Z3G5|YTFE\_ECO5E | MAYRDQPLGELALSIPRASALFRKYDMDYCCGGKQTLARAAARKELDVEVIEAELAKLAEQPIEKDWRSAPLAEIIDHIIVRYHARHREQLPELILQATKVERVHADKPSVPKGLTKYLTMLHEELSSHMMKEEQILFPMIKQGMGSQAMGPISVMESEHDEAGELLEVIKHNTNNVTPPPEACTTWKAMYNGINELIDDLMDHISLENNVLFPRALAGE |
| 472 | sp|B1JML7|YTFE\_YERPY | MDYRNQSLGALAIAIPRATKLFRQHQLDFCCGGKQTLLRAANKLNLDIDALEAQLSALQTEPHSSEDWQQQPLTNLISFIISRYHDRHREQLPELVLMAEKVERVHGDKPTCPRGLAAELSAILEELTQHMYKEEQILFPMIQRGMGSQASGPIFVMEAEHDAVGQQLDVVKQLTQNVTPPEGACNTWRALYTGINEFITDLMEHIHLENNLLFPRALRGE |
| 473 | sp|A0JPN4|ZC12A\_RAT | MSDPCGKKLVQEISPTMSLWGLEDRHSCQGQPQPDQDPVAKEASASELQMKVDFFRKLGYSSSEIHSALQKLGVQADTNTVLGELVKHGSATERECQASTDPCPQPPLVPRGGSTPKPSTVEPSLPEEDKESSDLRPVVIDGSNVAMSHGNKEVFSCRGILLAVNWFLERGHTDITVFVPSWRKEQPRPDVPITDQHILRELEKKKILVFTPSRRVGGKRVVCYDDRFIVKLAYESDGVVVSNDTYRDLQGERQEWKRFIEERLLMYSFVNDKFMPPDDPLGRHGPSLDNFLRKKPLPSEHRKQPCPYGRKCTYGIKCRFFHPERPSRPQRSVADELRANALLSPPRTPVKDKSSQRPSPASQPNSMSLEAEPGSPDGKKLGTRSSPGPHQEGSTQTCAPAGRSLPVSGGSFGPTEWLPHTLDSLPYTSQECLDSGIGSLESQMSELWGLRGGSPGESGPTRGPYTGYQTYGSKLPAAPAFSPFRQAIGTGHFSVPTDYVPPPPTYPAREYWSEPYPLPPPTPVLQEPQRPRPRASGDPWGRVSDLAKERAGVYTKLCGVFPPHLVEAVMGRFPQLLDPQQLAAEILSYKSQHLSE |
| 474 | sp|B1IRV8|SAFA\_ECOLC | MHATTVKNKITQRDNYKEIMSAIVVVLLLTLTLIAIFSAIDQLSISEMGRIARDLTHFIINSLQG |
| 475 | sp|Q9P7Y9|SIN1\_SCHPO | MELTREKVLLLTFLRMQYSHILPDSIENRVISTEAPEWELDKSLQDLLIHDYDYSKTSFSSSPPIVANDTVSNVRKPSDTKQVNGAGGQVNHSRAEDSDYATSDLSESSDVGDDDNSCIFSFSKVPMQKDVASIKEEERLDPKISTLNNIDAIANLKLTNMVESSQAVNLTSSKQSSINQQSSVSTDYDDLRSISEESFHLSQGEIPLTFPMNSSLTDTEADAVVAVDALFPGKQRGTHNTVNKARSVSNAKAPTSALRALLEHKENSSQNGPLAENFATFSGHAESNALRLNIYFPSSESPSKPLFVELRKNVLVSEAIGYILLQYVNQQLVPPIEDEAQNPNYWNLRIVEDDGELDEDFPALDRVGPLSKFGFDAFALVKATPAQIKENQAAYPFKSKHPTSIPEANNKTHIRHTSSTSSQSQKQAQDVKDTLNTSHVVQVRLPPYGDNARFCNIEISKTTRLAMVLNQVCWMKQLERFKYTLRVAGSDTVLPLDKTFSSLDGNPTLELVKKKVRDKKGSTQQLPTSSPQNSVYGSIKKDAQSSTYNATDIMSSNTYQEFLVWKRQPVSFMGRHERLLAIDGEYVHIMPSESKNIFETPKTSSIHAGSIILCKQSKKSPCNFKMIVSKNRETKRYDFEVLSALEAAIIVSRIRALMNTVKKIN |
| 476 | sp|C5MB30|SHO1\_CANTT | MGFSLSNFTGDPFAITTISFGIISWVVALAGAAASEQSTFPHFSWWGVAYQIVIILIIFVLYANNNIELYKFTLVGLVSIAFIYTTNTTNNLIYNSDSSGNLCCAAGCILLSILNLIWILYFGGHPESPTNQFIDSFSIKNHGHEHLGNTNPVSKSEVQAYDEMGANNQDYRRYVSPAQIPDAPQGPLRLGSHQDISSGNGNTTMQPPNMPGSAVHTPQGNTTNNNNTYMSSSHLAGLENFSSQDVPGSGATGRDLTNNSTSNKRNTIYTDSETGTGITFRYKAKALYSYDANPDDINEISFVKDEILEVDDIDGKWWQARRANGQVGICPSNYVKLLDT |
| 477 | sp|Q9LE44|SMP1\_ARATH | MAKNKDDIKYATAQAKLSEDEAIRVSYKHGTPLEGGKIAESEPVELFSSAQRIEKGKEQSAASGDQTQIQRDIKDIKGTRTDDSPR |
| 478 | sp|Q8Z2S0|SRKA\_SALTI | MNDNAFTFQTLHPETIMDALFEQGIRVDSGLTPLNSYENRVYQFQDEDRRRFVVKFYRPERWSVDQIREEHQFALELVKDEVPVAAPLAFNGQTLLAHQGYHYAIFPSVGGRQFEADNIDQMEAVGRYLGRLHQTGRKRPFTFRPDIGLAEYLFEPRQVFEDAALIPSGQKAAFLKATDTLLSAVTECWRTDFATLRLHGDCHAGNILWRDGPLFVDLDDARNGPAIQDLWMLLNGNKAEQRMQLETIIEAYEEVSEFDTAEIGLIEPLRAMRLVYYLAWLIRRWGDPAFPKNFPWLTGEDYWQRQTTTFIEQTKILHEPPLQLTPMY |
| 479 | sp|Q6GGE6|SODM1\_STAAR | MAFELPKLPYAFDALEPHFDKETMEIHHDRHHNTYVTKLNAAVEGTDLESKSIEEIVANLDSVPANIQTAVRNNGGGHLNHSLFWELLSPNSEEKGTVVEKIKEQWGSLEEFKKEFADKAAARFGSGWAWLVVNNGQLEIVTTPNQDNPLTEGKTPILGLDVWEHAYYLKYQNKRPDYIGAFWNVVNWEKVDELYNATK |
| 480 | sp|A8J6J0|SULT2\_CHLRE | MKRNTSNVDTGGVPAPLNSTPSTRLIQNGYGDSKYETERMEFPFPEDPRYHPRDSVKGAWEKVKEDHHHRVATYNWVDWLAFFIPCVRWLRTYRRSYLLNDIVAGISVGFMVVPQGLSYANLAGLPSVYGLYGAFLPCIVYSLVGSSRQLAVGPVAVTSLLLGTKLKDILPEAAGISNPNIPGSPELDAVQEKYNRLAIQLAFLVACLYTGVGIFRLGFVTNFLSHAVIGGFTSGAAITIGLSQVKYILGISIPRQDRLQDQAKTYVDNMHNMKWQEFIMGTTFLFLLVLFKEVGKRSKRFKWLRPIGPLTVCIIGLCAVYVGNVQNKGIKIIGAIKAGLPAPTVSWWFPMPEISQLFPTAIVVMLVDLLESTSIARALARKNKYELHANQEIVGLGLANFAGAIFNCYTTTGSFSRSAVNNESGAKTGLACFITAWVVGFVLIFLTPVFAHLPYCTLGAIIVSSIVGLLEYEQAIYLWKVNKLDWLVWMASFLGVLFISVEIGLGIAIGLAILIVIYESAFPNTALVGRIPGTTIWRNIKQYPNAQLAPGLLVFRIDAPIYFANIQWIKERLEGFASAHRVWSQEHGVPLEYVILDFSPVTHIDATGLHTLETIVETLAGHGTQVVLANPSQEIIALMRRGGLFDMIGRDYVFITVNEAVTFCSRQMAERGYAVKEDNTSSYPHFGSRRTPGALPAPSSQLDSSPPTSVTESTSGTPAAGTYSSIGGAVPAVAGHTAAGNGGSHSPSAQPGVQLTTTGSQRQQ |
| 481 | sp|Q9BSN7|TM204\_HUMAN | MTVQRLVAAAVLVALVSLILNNVAAFTSNWVCQTLEDGRRRSVGLWRSCWLVDRTRGGPSPGARAGQVDAHDCEALGWGSEAAGFQESRGTVKLQFDMMRACNLVATAALTAGQLTFLLGLVGLPLLSPDAPCWEEAMAAAFQLASFVLVIGLVTFYRIGPYTNLSWSCYLNIGACLLATLAAAMLIWNILHKREDCMAPRVIVISRSLTARFRRGLDNDYVESPC |
| 482 | sp|F4I1A6|TPPC\_ARATH | MKITDISGKIETLVDSLRDMSPTRVRSSFSDEHVSENDDERSSWIALHPSALDMFEQIMRDAEGKQIIMFLDYDGTLSLITEDHDRAYITDEMREVVKEVATYFKTAIISGRSTDKVQSFVKLTGIHYAGSHGMDIKGPTNTDQSNQEEVMFQPASDYLPMIDEVVNVLKEKTKSIPGATVEHNKFCLTVHFRRVDETGWAALAEQVRLVLIDYPKLRLTQGRKVLELRPSIKWDKGKALEFLLNSLGIAESKDVLPVYIGDDRTDEDAFKVLCERGQGFGIIVSKTIKETYASYSLQDPSQVKEFLERLVKWKKQTLGE |
| 483 | sp|Q9SUW0|TPPG\_ARATH | MDLNINKTTPVLSDPTTPVSKTRLGSSFPSGRFMMNSRKKIPKLDDVRSNGWLDAMISSSPPRKRLVKDFNIEIAPEDDFSQRAWMLKYPSAITSFAHIAAQAKNKKIAVFLDYDGTLSPIVDDPDRAIMSDAMRAAVKDVAKYFPTAIISGRSRDKVYQLVGLTELYYAGSHGMDIMTPVNPNGSPEDPNCIKTTDQQGEEVNLFQPAKEFIPVIEEVYNNLVEITKCIKGAKVENHKFCTSVHYRNVDEKDWPLVAQRVHDHLKRYPRLRITHGRKVLEVRPVIEWNKGKAVEFLLESLGLSNNDEFLPIFIGDDKTDEDAFKVLREGNRGFGILVSSVPKESNAFYSLRDPSEVKKFLKTLVKWGKMESSKTSF |
| 484 | sp|P28343|THS1\_VITVI | MASVEEFRNAQRAKGPATILAIGTATPDHCVYQSDYADYYFRVTKSEHMTELKKKFNRICDKSMIKKRYIHLTEEMLEEHPNIGAYMAPSLNIRQEIITAEVPRLGRDAALKALKEWGQPKSKITHLVFCTTSGVEMPGADYKLANLLGLETSVRRVMLYHQGCYAGGTVLRTAKDLAENNAGARVLVVCSEITVVTFRGPSEDALDSLVGQALFGDGSSAVIVGSDPDVSIERPLFQLVSAAQTFIPNSAGAIAGNLREVGLTFHLWPNVPTLISENIEKCLTQAFDPLGISDWNSLFWIAHPGGPAILDAVEAKLNLEKKKLEATRHVLSEYGNMSSACVLFILDEMRKKSLKGEKATTGEGLDWGVLFGFGPGLTIETVVLHSVPTVTN |
| 485 | sp|O32271|TUAD\_BACSU | MKKIAVIGTGYVGLVSGTCFAEIGNKVVCCDIDESKIRSLKNGVIPIYEPGLADLVEKNVLDQRLTFTNDIPSAIRASDIIYIAVGTPMSKTGEADLTYVKAAAKTIGEHLNGYKVIVNKSTVPVGTGKLVQSIVQKASKGRYSFDVVSNPEFLREGSAIHDTMNMERAVIGSTSHKAAAIIEELHQPFHAPVIKTNLESAEMIKYAANAFLATKISFINDIANICERVGADVSKVADGVGLDSRIGRKFLKAGIGFGGSCFPKDTTALLQIAKSAGYPFKLIEAVIETNEKQRVHIVDKLLTVMGSVKGRTISVLGLAFKPNTNDVRSAPALDIIPMLQQLGAHVKAYDPIAIPEASAILGEQVEYYTDVYAAMEDTDACLILTDWPEVKEMELVKVKTLLKQPVIIDGRNLFSLEEMQAAGYIYHSIGRPAVRGTEPSDKYFPGLPLEELAKDLGSVNL |
| 486 | sp|Q9FIE3|VIN3\_ARATH | MQAASLSKIWRFDGNVGPENMDSSSFEDNECIETCKPNVLNVSERRELIHALSNQPEEASELLNSWSRNEIMKIICAEMGKERKYTGLNKPKLIENLLNLVSRPLGETSCSDRRNSRKKEKKMIGYIICCENLACRAALGCDDTFCRRCSCCICQKFDDNKDPSLWLTCDACGSSCHLECGLKQDRYGIGSDDLDGRFYCAYCGKDNDLLGCWRKQVKVAKETRRVDVLCYRLSLGQKLLRGTTKYRNLLELMDEAVKKLEGDVGPLSGWAMKMARGIVNRLSSGVHVQKLCSQAMEALDKVVSPSESVSGQGDKMTVRVEEIQARSVTVRVDSEEPSSSTQNKITGFRLFCRKSKDEECSSQGNCVVYLPETTSAIQGLEPDTEFCLRVVSFNEEGDLDESELRFTTLKDDGDEAGDQQSPLTNSSSGLCSNPSLPEDESNNVNKSCSKGNGDKDNTEHCSAGEVESELEEERLVKRKANKIDGRDLLVTPCKRDIYKGKQGGNKRFKSRTVSLNEKPEINNAANGVGDKDLGHIVKTIRCLEEEGHIDKSFRERFLTWYSLRATHREVRVVKIFVETFMEDLSSLGQQLVDTFSESILSKRSSTNGVVPAGICLKLWH |
| 487 | sp|Q9M9F0|VQ9\_ARATH | MDKSCNSSGDSSAVSASATSSTGNNTTNRDHYLRQLNKLSHKISKPTNSSSSVSVANREIDLPPPPPLQINQGNLHQHQPPVYNINKNDFRDVVQKLTGSPAHERISAPPQQPIHHPKPQQSSRLHRIRPPPLVHVINRPPGLLNDALIPQGSHHMNQNWTGVGFNLRPTAPLSPLPPLPPVHAAAESPVSSYMRYLQNSMFAIDSNRKEFSGLSPLAPLVSPRWYQQQENAPPSQHNSFPPPHPPPPSSAVSQTVPTSIPAPPLFGCSSSPKSPYGLLSPSILLSPSSGQLGFPVSPTTVPLPSPKYKGH |
| 488 | sp|Q54IG2|Y8886\_DICDI | MATIMDFLLRQGLNVPVGYSSVGSQSTSSSSTSIPMDSSLRNVDYLPEIDITETKDSLIIECELAGVLKEDISIEVAESKLIIKGDKKRYAYRRPNQSWSYDDKNQISQSSKISEQSSGADQWQHSNDPNVDSQSNLNMPSSKQDPNVQQSRVGNVPESKVNRNDTTEPNLPSQPFQSDMNPSSSSSSIEKQQIPNVSHPSFQQWSGQPQPQQQQQQQQQQQQQQQQQQQQQQQPFEQQSQQQSNLNDPMQRQDSKEISQPSELQRSNFGESSVNQPSSSSSSLLGSDNSQSNVDLPSSRSVEPQRPNVSDSDTNQGYSQSVEQRLGNTQQQSSQLPQQQQQQQDQPRSNVNEPSFQQWSSQQDQHRSNVNDPSSQQWSSQPSEQQQKSNISESNVSQPSSTQFVENIPSNLEQLPQQEQQRSNGNEPSSQPWSSQPSEQQRSNINEPPSQQWSSKQDQQRSNVNDPSSQQWSSRPSEQQQQQQKPNIGELNVNQASSDVCSGPSVSETRKQFEENYLNEQQRQPQQQDLSSLHKDEKKPSSSSVSQTAQLFEPNKREEQRKDKPEEKKFDSDIIKSSEPTNVESIENKDWIQQKPQEQQQEPREISSTETSNLQQPMERQINTETPKEQQVSPQQQQPQQQQQPQQQQQPQQQQPQPQQQQQERKYISERTFGHFKRTMDLSKMLYRLNLREEVQTHFVNGLLIIILNKKPFEPSIKIPVN |
| 489 | sp|P46219|THSA\_SACSH | MASPVLLLKEGTSRTTGRDALRNNILAAKTLAEMLRSSLGPKGLDKMLIDSFGDVTITNDGATIVKDMEIQHPAAKLLVEAAKAQDAEVGDGTTSAVVLAGALLEKAESLLDQNIHPTIIIEGYKKAYTKALELLPQLGTRIDIRDLNSSVARDTLRKIAFTTLASKFIAEGAELNKIIDMVIDAIVNVAEPLPNGGYNVSLDLIKIDKKKGGSIEDSVLVKGLVLDKEVVHPGMPRRVTKAKIAVLDAALEVEKPEISAKISITSPEQIKAFLDEESKYLKDMVDKLASIGANVVICQKGIDDIAQHFLAKKGILAVRRVKRSDIEKLEKALGARIISSIKDATPDDLGYAELVEERRVGNDKMVFIEGAKNLKAVNILLRGSNDMALDEAERSINDALHALRNILLEPVILPGGGAIELELAMKLREYARSVGGKEQLAIEAFADALEEIPTILAETAGLEAISALMDLRARHAKGLTNTGVDVIGGKIVDDVYALNIIEPIRVKAQVLKSATEAATAILKIDDLIAAAPLKSEKKGGEGSKEESGGEGGAGTPSLGD |
| 490 | sp|A6ZU08|TOS3\_YEAS7 | MVLLKEPVQPLPRSSLLYNNASNSSSRIKETRKVKLLYNPLTKRQILNNFEILATLGNGQYGKVKLARDLGTGALVAIKILNRFEKRSGYSLQLKVENPRVNQEIEVMKRCHHENVVELYEILNDPESTKVYLVLEYCSRGPVKWCPENKMEIKAVGPSILTFQQSRKVVLDVVSGLEYLHSQGITHRDIKPSNLLISSNGTVKISDFGVAMSTATGSTNIQSSHEQLLKSRALGTPAFFAPELCSTEKEYSCSSAIDIWSLGVTIYCLLFGKLPFNANSGLELFDSIINKPLEFPSYEEMLNGATSGITMEEYTDAKDLLKKLLQKDPDKRIKLADIKVHPFMCHYGKSDAASVSTNLETFHELKVSPPSSCKRVELVSLPVNSSFASLDSVYMENFDHNNLRTGADRNSTYSPSIYDANTLSPSAYHNIGSRESSYSSFSSFTSSTAFASQISIQDAPAIGDQQCLIGESGSSLRVNSCEFPQYTTMSPVGEYPFESTEASLSSTLTPVGNVPQRIKAHLVEGKSNSKDDLRIEADASLVFEASDAQRTRRRMSLYKL |
| 491 | sp|Q0DDI1|TPP8\_ORYSJ | MTNQDVVMPDIAAAAAMPGSSGRAPLFACRGAAAVSASSMLGGGGAAYQAAVVAHVAPVPAIRPCASWVVEAMRASSPTRPAAAAVDAEYDAWTQRKHPSALGSFEQVAAAASGKRVVVFLDYDGTLSPIVADPDMAFMSDEMRAAVRDVAEHFPAAIVTGRCVDKVQSFVGLPELYYAGSHGMDIKGPSSNEEEDTKILLQPAREFLPVINKAYKALMEKTKSTPGARVENNKFCLSVHFRCVDEKRWNPLAEQVKAVLRDYPELKLTQGRKVLEIRPSIMWDKGKAVEFLLKSLGFDDDRRDVLPVYIGDDRTDEDAFKVLRKRGQGLGILVSKCAKETDASYSLQDPAEKYTNAGAHVFVTMLLTVVFTAAVALALVNAVNSHDFAAHLAGVDCRMGLAGPVRCPASGFVELLVLALHVVRCVLAILDRLHACLMSPSLQLSIASPCHGVPCSIGAVEASAIIVSDAPEGLISTLTTDHIYYMTVFPAKLALTSEEV |
| 492 | sp|O32267|TUAH\_BACSU | METKEAIIHVIVATAEWGKDQLRYRRHRLAEFLAAQEETKEVIWVCPAPRAQGKEFQEVHSGIRQFAVKDLLQKKMFRFGRYTDVFYRHKLSPLLDELTPASANGERCCLWYTFPGFPLLSSLYSWDQVIYDCSDLWAAPISGRSNLLSEFRRKVIKSAELRIIQRADSITCSSDYLHKEVDKKLTAGREKVHTVENGVEYELFSANKQAPDRSILQGREGIVLGFIGGIKPKLDFKMIKEAALQKPDWTFLWVGPDATNGDVSFQELLRLPNVIWTGPADPKEVPHYMELIDIGIMPYKQSPYNQAVFPLKLFEFLAAGKPVVGTNLPSTSKMQKPYVYEYVEGDHPIDFIAACEKVLGQNGDETYKEMRRNIARTQDWNCLFRQIMKYTGIQKHA |
| 493 | sp|P15732|UBC5\_YEAST | MSSSKRIAKELSDLGRDPPASCSAGPVGDDLYHWQASIMGPSDSPYAGGVFFLSIHFPTDYPFKPPKVNFTTKIYHPNINSSGNICLDILKDQWSPALTLSKVLLSICSLLTDANPDDPLVPEIAQIYKTDKAKYEATAKEWTKKYAV |
| 494 | sp|Q5AV81|Y7799\_EMENI | MVRIFITGSSDGIGQAAAKVLSEQGHSVVLHARNADRAASAQEAVPGAEAVLVGDLSSIAETKALAEEANKLPPFDTVIHNAGIGYGATASQEITADKISAVFAVNTLAPYILTCLMHKPKARLLYMSSDSHYGGDESLRNITQSHSYGNTKLHDVMLANAFSRRWGNAIQVVSMHPGWVRTKMGGVMAPGALDRPARVLADWAIGKGDLARLKSGTFFTTSGPESAHPGADNVQKQEELLRICKEVSGVGVPGG |
| 495 | sp|P0AD50|YFIA\_ECOL6 | MTMNITSKQMEITPAIRQHVADRLAKLEKWQTHLINPHIILSKEPQGFVADATINTPNGVLVASGKHEDMYTAINELINKLERQLNKLQHKGEARRAATSVKDANFVEEVEEE |
| 496 | sp|Q1R342|YTFE\_ECOUT | MAYRDQPLGELALSIPRASALFRKYDMDYCCGGKQTLARAAARKELDVDVIEAELAKLAEQPIEKDWRSAPLAEIIDHIIVRYHDRHREQLPELILQATKVERVHADKPSVPKGLTKYLTMLHEELSSHMMKEEQILFPMIKQGMGSQAMGPISVMESEHDEAGELLEVIKHTTNNVTPPPEACTTWKAMYNGINELIDDLMEHISLENNVLFPRALAGE |
| 497 | sp|D0ZKX9|RSEP\_SALT1 | MLSILWNLAAFIIALGVLITVHEFGHFWVARRCGVRVERFSIGFGKALWRRTDRYGTEYVIALIPLGGYVKMLDERAEPVAPELRRHAFNNKTVGQRAAIIAAGPVANFIFAIFAYWLVFIIGVPGVRPVIGEITPNSIAAQAQIAPGTELKAVDGIETPDWDAVRLQLVSKIGDQQTTVSVAPFGSDQRQDKTLDLRHWAFEPDKQDPVSSLGIRPRGPQIEPVLSEVQANSAASKAGLQAGDRIVKVDGQPLTQWMKFVTFVRDNPGKPLALEIERQGSALSLTLTPDTKSVNGKAEGFAGVVPKIIPLPEEYKTIRQYGPFSAILEATDKTWQLMKLTVSMLGKLITGDVKLNNLSGPISIAQGAGMSAEFGVIYYLMFLALISVNLGIINLFPLPVLDGGHLLFLAIEKLKGGPVSERVQDFSYRIGSILLVLLMGLALFNDFSRL |
| 498 | sp|A3C039|SAP1\_ORYSJ | MAQRDKKDQEPTELRAPEITLCANSCGFPGNPATQNLCQNCFLAATASTSSPSSLSSPVLDKQPPRPAAPLVEPQAPLPPPVEEMASALATAPAPVAKTSAVNRCSRCRKRVGLTGFRCRCGHLFCGEHRYSDRHGCSYDYKSAARDAIARDNPVVRAAKIVRF |
| 499 | sp|P0CU39|SAHS1\_HYPDU | MARFLVALALFGVVAMTAASGDAPKEWSGKPWLGKFVAEVSDKSENWEAFVDALGLPDQYPRAQLKTIHSFYKQGEHYHHILSLPDKNINKDIEFTLGQEVEIKHGEHSLKIKYFEDGNKLVADVSIPAKGKSIHDVYDVQGDQLIKSYKVGDVVAKKWFKKVANPAA |
| 500 | sp|A6QDN3|SCDA\_STAAE | MINKNDIVADVVTDYPKAADIFRSVGIDFCCGGQVSIEAAALEKKNVDLNELLQRLNDVEQTNTPGSLNPKFLNVSSLIQYIQSAYHEPLREEFKNLTPYVTKLSKVHGPNHPYLVELKETYDTFKNGMLEHMQKEDDVDFPKLIKYEQGEVVDDINTVIDDLVSDHIATGELLVKMSELTSSYEPPIEACGTWRLVYQRLKALEVLTHEHVHLENHVLFKKVS |
| 501 | sp|Q4W4Z2|RT4I1\_CAEEL | MIEKMILRRFFSTKSSTMRAWVSENGSGVELKEVPLPVINKPGQVLLKVKAASVNPIDVDMSQGYGREFLGTWKKIESCDAAASRFPLIPGRDCTAVVESVGGDVHNLAPGDEVMAVVPVILPGTHAEFVVTDSKYCSKKPSNLSFVSAAALPYVASTAYSAFTIARVSQRNAKQQRVLIHGGAGGVGSMAIQLLKAWGCEKIVATCAKGSFDIVKQLGAIPVDYTSDQATQELIEHAPFEVILDTVDSQLAKWSDNVMGVWRNCVHVSIVSPLMREMDKNGVPLGLVTTAMKHFERSFQSHLRGRWFSYAFFRPSSDLMSQLSRFAEDGKIVPVVEQVMGFEELEKAYEKVSQLNGRGKTVIKYD |
| 502 | sp|Q9F326|SODM\_STACA | MAFELPNLPYEFDALEPYIDKETMEIHHDKHHNTYVTKLNAAIEGTDLENKSIEEIVANLDSVPSDIQTAVRNNGGGHLNHSLFWQLLTPNSEEKGTVIDKIKEEWGSLDKFKDEFAKKAAGQFGSGWAWLVVDKDGKLEIVSTPNQDNPITEGKTPILGLDVWEHAYYLKYQNKRPDYIDAFWNVVNWNKVDELYEAATK |
| 503 | sp|Q9C9C0|SPPA1\_ARATH | MAKLLLLHAPHVIPRFSSSSSRSLVSAAALYRRPLLVNPQFSHIGPRLHSPYNRRFSARAFDDSPASSAEMEKEKQEQLLDGVSGKKDEDYPTGEMEYENRNAWEIFVVKFRMLFAYPWQRVRKGSVLTMTLRGQISDQLKSRFNSGLSLPQLSENFVKAAYDPRIAGVYLHIDPLSCGWGKVEEIRRHILNFKKSGKFIVGYISICGLKEYYLGCACNELFAPPSAYSFLYGLTVQASFLGGVFEKVGIEPQVQRIGKYKSAGDQLSRKSISEENYEMLSVLLDNIYSNWLDGVSDATGKKREDVENFINQGVYEIEKLKEAGLIKDIRYDDEVITMLKERLGVEKDKKLPTVDYKKYSGVKKWTLGLTGGRDQIAIIRAGGSISRVKGPLSTPGSAIIAEQLIEKIRSVRESKKYKAAIIRIDSPGGDALASDLMWREIKLLAETKPVIASMSDVAASGGYYMAMAANAIVAENLTLTGSIGVVTARFTLAKLYEKIGFNKETISRGKYAELLGAEERPLKPEEAELFEKSAQHAYQLFRDKAALSRSMPVDKMEEVAQGRVWTGKDAHSRGLIDAVGGLSRAIAIAKQKANIPLNKKVTLVELSRPSTSLPDILSGIGSSVIGVDRTLKGLLDELTITEGVQARMDGIMFQQLGRDSLATPIIDMLKDYLSSLR |
| 504 | sp|P0AFZ3|SSPB\_ECOLI | MDLSQLTPRRPYLLRAFYEWLLDNQLTPHLVVDVTLPGVQVPMEYARDGQIVLNIAPRAVGNLELANDEVRFNARFGGIPRQVSVPLAAVLAIYARENGAGTMFEPEAAYDEDTSIMNDEEASADNETVMSVIDGDKPDHDDDTHPDDEPPQPPRGGRPALRVVK |
| 505 | sp|Q5BB76|Y2204\_EMENI | MSHLNGSEPSRAQRETEGRWEEKNVLCDQIKEIIAALNDIRTQLAEQNKYLDVLTETYVRKPAPTHLVFAQELETGGWEEGSDWGEYADFAQGEILPAPGLEYEGSCEQNYEGKYKGDYEENYEENYEENYGEENYEEVKGRYREEEKESPKVDSFHVNETAASRNQREPILAESKGDMQKQKCYSLESTGPSFYLPLGLVISAHVSQASFTTVFIILSLAAYIFATFTLWFLREEDWVKRIIGSWRLAKANASASANSNANAITDSIQADQDRGSRIPDLLRRRQVLETS |
| 506 | sp|P0AD51|YFIA\_ECO57 | MTMNITSKQMEITPAIRQHVADRLAKLEKWQTHLINPHIILSKEPQGFVADATINTPNGVLVASGKHEDMYTAINELINKLERQLNKLQHKGEARRAATSVKDANFVEEVEEE |
| 507 | sp|Q8ZB88|YTFE\_YERPE | MDYRNQSLGALAIAIPRATKLFRQHQLDFCCGGKQTLLRAANKLNLDIDALEAQLSALQTEPHSSEDWQQQPLTNLISFIISRYHDRHREQLPELVLMAEKVERVHGEKPTCPRGLAAELSAILEELTQHMYKEEQILFPMIQRGMGSQASGPIFVMEAEHDAVGQQLDVVKQLTQNVTPPEGACNTWRALYTGINEFITDLMEHIHLENNLLFPRALRGE |
| 508 | sp|A8DYQ1|YTHA\_ECOLI | MIKNFIFDNLIILAVPFMIKTSLKTNLIFFFLCVFVPHMAS |
| 509 | sp|P44404|RPOH\_HAEIN | MDKETQMMLVPQGSIEGYIRAANEYPMLTAEEEKELAERLYYHEDLDAAKKLILSHLRFVIHVARGYSGYGLPQADLIQEGNIGLMKAVKRFNPEVGVRLVSFAVHWIKAEIHEYVLRNWRIVKVATTKAQRKLFFNLRKTKQRLGWFNENEVDMVANELGVSKEDVIEMESRMSGADVGFDLPTDDAETETYSPALYLEDKSSNFAAELENENFESQATEQLGAALQSLDARSQDIIKARWLDDNKATLHDLAAKYNVSAERIRQLETNALKKLKSAVNF |
| 510 | sp|P0AFZ4|SSPB\_ECO57 | MDLSQLTPRRPYLLRAFYEWLLDNQLTPHLVVDVTLPGVQVPMEYARDGQIVLNIAPRAVGNLELANDEVRFNARFGGIPRQVSVPLAAVLAIYARENGAGTMFEPEAAYDEDTSIMNDEEASADNETVMSVIDGDKPDHDDDTHPDDEPPQPPRGGRPALRVVK |
| 511 | sp|Q10B19|TRM13\_ORYSJ | MGRAPAKRKPSSPPPPPPPGRCHFWLPNKRRHCANTPLPTSQYCGNHLPDSASDAGAPFRRLVPCPVDPSHTVLEENLEAHVGKCPLKKQAAALAAQPFYSKGINSGGGEGGGGVTSAAKRALVHKLTKDELRALIEKIKLAHASAAMAMRDSFLVTDACDNWMRNQVDRKVPYQEKHVTQQASIIGNMEAFGLLQKGGEVAEENGVKNAPAVVEFGAGRGYLTQMLADCYGIRNVFLVERRSYKLKLKI |
| 512 | sp|P10152|ANG1\_BOVIN | MVMVLSPLLLVFILGLGLTPVAPAQDDYRYIHFLTQHYDAKPKGRNDEYCFNMMKNRRLTRPCKDRNTFIHGNKNDIKAICEDRNGQPYRGDLRISKSEFQITICKHKGGSSRPPCRYGATEDSRVIVVGCENGLPVHFDESFITPRH |
| 513 | sp|Q9KPS0|BOLA\_VIBCH | MIQDVIEKKLSDEFQPEFLKVINESDMHNVPRGSESHFKVTVVSERFAGLRPVARHRLVNQTLADELANHIHALAIHTYTTQEWQQMNQESPESPMCLGGSRKSAQ |
| 514 | sp|Q9D1P4|CHRD1\_MOUSE | MALLCYNRGCGQRFDPEANSDDACTYHPGVPVFHDALKGWSCCKRRTTDFSDFLSIVGCTKGRHNSEKPPEPVKPEVKTTEKKELSELKPKFQEHIIQAPKPVEAIKRPSPDEPMTNLELKISASLKQALDKLKLSSGSEEDKKEEDSDEIKIGTSCKNGGCSKTYQGLQSLEEVCVYHSGVPIFHEGMKYWSCCRRKTSDFNTFLAQEGCTRGKHVWTKKDAGKKVVPCRHDWHQTGGEVTISVYAKNSLPELSQVEANSTLLNVHIVFEGEKEFHQNVKLWGVIDVKRSYVTMTATKIEITMRKAEPMQWASLELPTTKKQEKQKDIAD |
| 515 | sp|Q0SMK4|CH60\_BORAP | MAKDIYFNEDARKSLLSGVEKLSNAVKVTLGPKGRNVLIDKKFGSPTVTKDGVSVAREIELENPFENMGAQLLKEVAIKTNDVAGDGTTTATVLAYAIAREGLKNVSSGINPIGIKKGIDHAVSLAAEKIRQSAKKITTKEEIAQVASISANNDSYIGEKIAEAMDKVGKDGVITVEESKTFDTTISYVEGMQFDRGYLSPYFSTNKENMSVSFDDAFILIYEKKISSIKELLPVLEKVLGTNKPLLIIAEDIEGDALAALVLNSVRGALKVCAIKSPGFGDRRKAMLEDIAVLTGGVLISEELGLTLETVEIEQLGQAKTIKVDKDNTTIINTGNKEQIKERSELIKKQIEDSTSEYDKEKLQERLAKLVGGVAVINVGAVTEVELKEKKHRVEDALSATRAAVEEGVVPGGGSTLIEVAMYLDTIDTSKLSYEEKQGFEIVKRSLEEPMRQIISNAGFEGSIYIHQIKTEKKGLGFDASSFKWVNMIESGIIDPAKVTRSALQNAASIAGLLLTTECAITDIKEEKNTSGGGGYPMDPGMGMM |
| 516 | sp|Q92ZQ3|CH104\_RHIME | MASTDFRPLHDRVVVRRVESEEKTKGGVIIPDTAKEKPQEGEIVAVGSGARDESGKVVPLDVKAGDRILFGKWSGTEVKINGEDLLIMKEADIMGVIG |
| 517 | sp|P35473|CH101\_RHIME | MASTNFRPLHDRVVVRRVESEEKTKGGIIIPDTAKEKPQEGEIVAVGSGARDESGKVVPLDVKAGDRILFGKWSGTEVKINGEDLLIMKEADIMGVIG |
| 518 | sp|Q7MNK1|CLPB\_VIBVY | MRLDRFTSKFQIAISDAQSLALGRDHQYIEPVHLMVALLDQNGSPIRPLLTILNVDVTHLRSKLSEMLDRLPKVSGIGGDVQLSSAMGAMFNLCDKIAQKRQDAYISSEIFLLAAIEDRGPLGQLFKELGLTEQKVSQAIEQIRGGQKVNDQNAEELRQALEKFTIDLTERAEQGKLDPVIGRDDEIRRTIQVLQRRTKNNPVIIGEPGVGKTAIVEGLAQRIINNEVPEGLRGRRVLSLDMGALVAGAKYRGEFEERLKSVLNELSKEEGNIILFIDELHTMVGAGKGEGSMDAGNMLKPALARGELHCVGATTLDEYRQYIEKDPALERRFQKVLVDEPTVEDTIAILRGLKERYELHHHVEITDPAIVAAASLSHRYVSDRQLPDKAIDLIDEAASSIRMQIDSKPEALDKLERKIIQLKIEQQALSNEHDEASEKRLRSLNEELNEKEREFAELEEIWNAEKAALSGTQHIKAALEQARMDMEFARRAGDLSRMSELQYGRIPELEKQLDLATQAEMQEMTLLKNKVTDNEIAEVLSKQTGIPVSKMLEAEKEKLLRMEEVLHKRVIGQKEAVEVVANAIRRSRAGLSDPNKPIGSFLFLGPTGVGKTELCKTLANFMFDSEDAMVRIDMSEFMEKHSVARLVGAPPGYVGYEEGGYLTEAVRRKPYSVILLDEVEKAHPDVFNILLQVLDDGRLTDGQGRTVDFRNTVVIMTSNLGSSRIQENFAMLDYQGIKEQVMEVVTKHFRPEFLNRVDETVVFHPLSQDHIKSIAAIQLNRLANRMEEHGYQLEVSDKALELIAQVGFDPVYGARPLKRAIQQSIENPLAKSILAGSVLPDKKIQLIVNNDQIVAHQ |
| 519 | sp|Q40412|ABA2\_NICPL | MYSTVFYTSVHPSTSAFSRKQLPLLISKDFPTELYHSLPCSRSLENGQIKKVKGVVKATIAEAPATIPPTDLKKVPQKKLKVLVAGGGIGGLVFALAAKKRGFDVLVFERDLSAIRGEGQYRGPIQIQSNALAALEAIDMDVAEDIMNAGCITGQRINGLVDGVSGNWYCKFDTFTPAVERGLPVTRVISRMTLQQNLARAVGEDIIMNESNVVNFEDDGEKVTVTLEDGQQYTGDLLVGADGIRSKVRTNLFGPSDVTYSGYTCYTGIADFVPADIETVGYRVFLGHKQYFVSSDVGGGKMQWYAFHNEPAGGVDDPNGKKARLLKIFEGWCDNVIDLLVATDEDAILRRDIYDRPPTFSWGKGRVTLLGDSVHAMQPNLGQGGCMAIEDSYQLALELDKALSRSAESGTPVDIISSLRSYESSRKLRVGVIHGLARMAAIMASTYKAYLGVGLGPLSFLTKFRIPHPGRVGGRFFIDLGMPLMLSWVLGGNGEKLEGRIQHCRLSEKANDQLRNWFEDDDALERATDAEWLLLPAGNSNAALETLVLSRDENMPCNIGSVSHANIPGKSVVIPLPQVSEMHARISYKGGAFFVTDLRSEHGTWITDNEGRRYRASPNFPTRFHPSDIIEFGSDKKAAFRVKVMKFPPKTAAKEERQAVGAA |
| 520 | sp|P23901|ALDR\_HORVU | MASAKATMGQGEQDHFVLKSGHAMPAVGLGTWRAGSDTAHSVRTAITEAGYRHVDTAAEYGVEKEVGKGLKAAMEAGIDRKDLFVTSKIWCTNLAPERVRPALENTLKDLQLDYIDLYHIHWPFRLKDGAHMPPEAGEVLEFDMEGVWKEMENLVKDGLVKDIGVCNYTVTKLNRLLRSAKIPPAVCQMEMHPGWKNDKIFEACKKHGIHVTAYSPLGSSEKNLAHDPVVEKVANKLNKTPGQVLIKWALQRGTSVIPKSSKDERIKENIQVFGWEIPEEDFKVLCSIKDEKRVLTGEELFVNKTHGPYRSAADVWDHEN |
| 521 | sp|Q95ZQ4|AAPK2\_CAEEL | MFSHQDRDRDRKEDGGGDGTEMKSKSRSQPSGLNRVKNLSRKLSAKSRKERKDRDSTDNSSKMSSPGGETSTKQQQELKAQIKIGHYILKETLGVGTFGKVKVGIHETTQYKVAVKILNRQKIKSLDVVGKIRREIQNLSLFRHPHIIRLYQVISTPSDIFMIMEHVSGGELFDYIVKHGRLKTAEARRFFQQIISGVDYCHRHMVVHRDLKPENLLLDEQNNVKIADFGLSNIMTDGDFLRTSCGSPNYAAPEVISGKLYAGPEVDVWSCGVILYALLCGTLPFDDEHVPSLFRKIKSGVFPTPDFLERPIVNLLHHMLCVDPMKRATIKDVIAHEWFQKDLPNYLFPPINESEASIVDIEAVREVTEFQRYHVAEEEVTSALLGDDPHHHLSIAYNLIVDNKRIADETAKLSIEEFYQVTPNKGPGPVHRHPERIAASVSSKITPTLDNTEASGANRNKRAKWHLGIRSQSRPEDIMFEVFRAMKQLDMEWKVLNPYHVIVRRKPDAPAADPPKMSLQLYQVDQRSYLLDFKSLADEESGSASASSSRHASMSMPQKPAGIRGTRTSSMPQAMSMEASIEKMEVHDFSDMSCDVTPPPSPGGAKLSQTMQFFEICAALIGTLAR |
| 522 | sp|E3SCZ8|BIRC5\_CAVPO | MGAPSLPRAWQLYLKEHRVSTFKNWPFVNGCSCTPERMAEAGFIHCPTENEPDLAQCFFCFKELEGWEPDDNPIEEHKKHSSGCAFLSVKKQFEELTLSEFLKLDKERAKNKIAKETNSKQKEFEETAAKVRQAMEQLAALE |
| 523 | sp|P12794|BIP\_PLAFA | EFFNGKEPNRGINPDEAVAYGAAIQAGIILGEELQDVVLLDVTPLTLGIETVGGIMTQLIKRNTVIPTKKSQTFSTYQDNQPAVLIQVFEGERALTKDNHLLGKFELSGIPPAQRGVPKIEVTFTVDKNGILHVEAEDKGTGKSRGITITNDKGRLSKEQIEKMINDAEKFADEDKNLREKVEAKNNLDNYIQSMKATVEDKDKLADKIEKEDKNTILSAVKDAEDWLNNNSNADSEALKQKLKDLEAVCQPIIVKLYGQPGGPSPQPSGDEDVDSDEL |
| 524 | sp|Q95QN6|BRAP2\_CAEEL | MSSLYVPLVLRLEVRDRTKIVQSFIDDSKAGSESPLAGERTRQRLVKKGNTPPKKELKGREEDPPIGVMSSEPSHNYHKGRRTYSEVVIESLDGEKLVDSSSSVAGTSEKSGGRSVSEGPPDQVAYYSGNPLTEKTEGIMHFYKYNDEKLTKVAQCRMLCMYAVPAQVEVREIISFMCISLPMIVSIKVVRDPAPNQYMLIIKFKEHNDAVTFYEEFNNCPFNDLESYCCTLFFVDRIECTTSNDLFSSDDTSLTELPTCAVCLERMDDSVLAILCNHSFHARCLEQWADNTCPVCRYVQSPEVVAEQRCNDCGMSNDLWICLICGNIGCGRYAEQHAQRHWELTSHTYSLKVGGERVWDYAGDNYVHRLIENGADGKLVEYQRESNASFDDKNQKGGDKLEGIKLEYTLLLTSQLEDQRKYFEGLRHDMEQTMSKMEKTAYAQVENLEHQLTERSTELKSLKGDLDDTVTARKVAEKRATQTNEKVNKLANELKDEREINQMLRKDQQVWKGQVEKLIESQKTARTEYEKKIEDLQSQVNDLLMHFETQNKLKEQLDAGKITQEEITESQVELDSSSSSSRKLNRKKKK |
| 525 | sp|P10490|CAPP1\_MESCR | MSTVKLDRLTSIDAQLRLLAPKKVSEDDKLIEYDALLLDRFLDILQNLHGEDIKETVQELYEQSAEYERTHDPKKLEELGSMVTSLDAGDSIVVAKSFSHMLNLANLAEEVQISRRKRVKKVKKGDFMDENTAMTESDMEETLRRLIVDLKKSPQEIFETLKNQTVDLVFTAHPTQSVRRSLLQKHGRIRDCLAQLYAKDITPDDKQELDEALQREIQAAFRTDEIRRTQPTPQDEMRAGMSYFHETIWNGVPKFLRRLDTALKNIGITERVPYNAPLIQFSSWMGGDRDGNPRVTPEVTRDVCLLARMMAANMYFSQIDELMFELSMWRCTDELRERAEELHKYSKRDSKHYIEFWKQIPSSEPYRVILADVRDKLYYTRERSRQLLASEVSEIPVEATFTEIDQFLEPLELCYRSLCACGDRPVADGSLLDFMRQVATFGLCLVKLDIRQESERHTDVMDAITTHLGIGSYRDWTEEKRQDWLLSELRGKRPLFGPDLPRTDEIADVLDTINVIAELPSDSFGAYVISMATAPSDVLAVELLQRECKVKKPLRVVPLFEKLADLEAAPASMTRLFSVDWYKNRIDGKQEVMIGYSDSGKDAGRLSAAWQMYKVQEELLKVSKKFGVKLTMFHGRGGTVGRGGGPTHLAILAQPAETIGGSLRVTIQGEVIEQSFGEQHLCFRTLQRYTAATLEHGMNPPKSPKPEWRALLDQMAVVATEEYRSIVFKEPRFVEYFRLATPETEYGRMNIGSRPSKRKPSGGIESLRAIPWIFAWTQTRFHLPVWLGVGGALKHVLEKDIRNHNMLRDMYNNFPFFRVTIDLLEMVFAKGDPEIAALYDKLLVSEELQSFGERLRANYEDTKRRLLEVAGHKDLLEGDPYLKQRLRLRDPYITTLNVCQAYTLKRIRDPDFKVTERPHLSKEIMDAHKAAAELVKLNPTSEYAPGLEDTLILTMKGVAAGLQNTG |
| 526 | sp|C0ZT86|DNAK\_RHOE4 | MARAVGIDLGTTNSVVAVLEGGEPVVVANAEGSRTTPSVVAFAKNGEVLVGQPAKNQAVTNVDRTLRSVKRHIGTDWNVEIDGKKYTPQEISARTLMKLKRDAEAYLGEDITDAVITVPAYFEDAQRQATKEAGQIAGLNVLRIVNEPTAAALAYGLDKGDTEQTILVFDLGGGTFDVSLLEIGDGVVEVRATSGDNHLGGDDWDERVVAWLVDKFKAQNGIDLTKDKMALQRLREAAEKAKIELSSSQSTSINLPYITVDADKNPLFLDEQLSRSEFQKITSDLLDRTRAPFQAVIKDSGIAVKDIDHVVLVGGSTRMPAVSDLVRELTGGREPNKGVNPDEVVAVGAALQAGVLKGEVKDVLLLDVTPLSLGIETKGGVMTKLIERNTTIPTKRSETFTTADDNQPSVQIQVFQGEREIASHNKLLGSFELTDLPPAPRGVPQIEVTFDIDANGIVHVTAKDKGTGKENTIKIQDGSGLSKEEIERMVKDAEAHAEEDKARREEAEVRNQAESLVHQTEKFVKEQREGENAGKVSEEILTKVEAAVKDVNDALAGTDIAAVKTAVEKLGTESQALGQAIYEASAANEAGNTDGAGNDDDVVDAEVVDEPTDSDKK |
| 527 | sp|Q37106|DNAK\_CYAPA | MGKIVGIDLGTTNSVVAVMEGGKPTVITNAEGFRTTPSVVAYTKTGDRLVGQIAKRQAVLNPGNTFYSVKRFIGRKFDEVTEEAKQVPYKVTGTQNVRIECPALQTSFTPEEISAQVLRKLAEDASKYIGEPVTQAVITVPAYFNDSQRQATKDAGKIAGLEVLRIINEPTAASLAYGLDKKKNETILVFDLGGGTFDVSILEVGDGVFEVLSTSGDTHLGGDDFDKKLVDFFIEEFQKLENINLREDQQALQRLTEAAEKAKIELSSVTQTEITLPFLSLTPSGPKHFDTTLNRAKFEELCSTLIDRCRIPVETALKDAKLTKEDIDEVVLVGGSTRIPAVRELVQKVLDKVPKQSVNPDEVVAVGAAVQAGVLAGEVKDIVLLDVTPLSLGVETLGGVMSKIIVRNTTIPTQKSELFSTATDGQTNVEIHVLQGERGFAKDNKSLGTFRLDGIAPAPRGVPQIEVTFDIDANGILSVTAKDKGTGKEKSITITGASTLSQDEVERMVQEAEKNAAQDKENRQKIELRNQAESLINQAERQLKEFKLEPNVQAPIEQTIQQLQTALKEDNLEQVQSLCQELQNSLLEIGKQVYSKTETTTPNKNEEDVIDASFSEEK |
| 528 | sp|B4S6P7|DNAK\_PROA2 | MGKIIGIDLGTTNSCVAVMQGTQPTVIENSEGYRTTPSMVAFTKNGERLIGHAAKRQAITNAKNTVFSIKRFMGRKFDEVPNEKKIAPYKVVNINGEARVEIDDKNYSPQEISAMILQKMKQTAEDFLGEKVTEAVITVPAYFNDAQRQATKDAGKIAGLEVKRIINEPTAAALAYGLDKKKENEKVAVFDLGGGTFDISILELGDGVFEVKSTDGDTHLGGDDFDQTIIDFLADEFKKQEGIDLRTDAIALQRLKEAAEKAKIELSSRTDTEINLPFITATQEGPKHLVVNLTRAKFEALASTLFDNIMAPCKRAIKNAKVNISEIDEVVLVGGSTRIPKVQELVKELFKREPNKSVNPDEVVAVGAAIQGGVLTGEVSDVLLLDVTPLSLGIETLGGVMTKLIEANTTIPTKKQEVFSTAADNQTSVEVHVLQGERPMASDNKTLGRFHLGDIPPAPRGMPQVEVAFDIDANGILHVSAKDKATGKEQSIRIEAGGKLNDAEIEKMKNDAKAHAEEDAKRKEEVETKNAADSLIFSTEKQLQELGDKIPADKKAPLESALDRLKEAHKSGSADAIKPAMDEVNTIWNDIASQLYQAADAPGSGTPNPEAESGKQESSGKTDGQVDAEYEVIDGNDKDK |
| 529 | sp|P9WNV7|DNAJ2\_MYCTU | MARDYYGLLGVSKNASDADIKRAYRKLARELHPDVNPDEAAQAKFKEISVAYEVLSDPDKRRIVDLGGDPLESAAAGGNGFGGFGGLGDVFEAFFGGGFGGGAASRGPIGRVRPGSDSLLRMRLDLEECATGVTKQVTVDTAVLCDRCQGKGTNGDSVPIPCDTCGGRGEVQTVQRSLLGQMLTSRPCPTCRGVGVVIPDPCQQCMGDGRIRARREISVKIPAGVGDGMRVRLAAQGEVGPGGGPAGDLYVEVHEQAHDVFVREGDHLHCTVSVPMVDAALGVTVTVDAILDGLSEITIPPGTQPGSVITLRGRGMPHLRSNTRGDLHVHVEVVVPTRLDHQDIELLRELKGRRDREVAEVRSTHAAAGGLFSRLRETFTGR |
| 530 | sp|Q7VC04|DNAK1\_PROMA | MGRIVGIDLGTTNSVIGVLEAGRPFVIANAEGSRTTPSVIGYTKESELVVGQQARRQLVLNPKNTFSNLKRYVGRSWDELEENSLNVAYTIRANNQGCVRVTCPITEREYAPEELIGSIIRKLIDDAEKYLSETIDSAVITVPAYFNDSQRQATKDAALLAGVRVERILNEPTAAALAYGFDKSSSSRVLVFDLGGGTFDISLLRISNGVFDVKATSGDTQLGGNDFDQKIVEWLANDFKKEHNIDLRRDRQSLQRLNEVAEKAKQELSGLNSTPISLPFIATGPNGPLHIETKLDRKTFESLCKDLIDRLLQPVEVALQDSGWTADDINDVVLVGGGTRMPMVQQLVKTIVPVTPSQSVNPDEVVAIGAAVQAGILTGELRDLLLNDVTPLSLGLETIGGLMKVLIPRNTPIPVRQADVFSTSEANQSSVEINVWQGERQLASDNKSLGKFRLSGIPPAPRGVPQVQVAFDIDANGMLQVSATDRTTGRKQSVSINGGSNLNEDEVNNLIEEAKDKADVDRRKRASIDQRNNALTLVAQAERRLRDVSLEFGPYGAERQQRAVEVSLRDVQDFLDSDDLAELDLAVSSLQEALFGLNRRISAEKRTDNNPIQGIKNTFGSLKDELFSDDYWDDDPWDYHPNNNRVGGGRDYGGRNLDRWDNDFYN |
| 531 | sp|Q6D0B7|DNAK\_PECAS | MGKIIGIDLGTTNSCVAIIDGTQVKVLENSEGDRTTPSIIAYTQDGEILVGQPAKRQAVTNPQNTLFAIKRLIGRRFKDEEVQRDSNIMPYKIVAADNGDAWLEVKDQKMAPPQISAEVLKKMKKTAEDYLGETITEAVITVPAYFNDAQRQATKDAGRIAGLEVKRIINEPTAAALAYGLDKEVGNRTIAVYDLGGGTFDISIIEIDEVDGEKTFEVLATNGDTHLGGEDFDNRMINYLVDEFKKEQGFDLRNDPLAMQRLKEAAEKAKIELSSAQQTDVNLPYITADATGPKHLNIKVTRAKLESLVEELVNRSLEPLKVALQDAGLSVSEIQDVILVGGQTRMPLVQKKVADFFGKEPRKDVNPDEAVAIGAAVQGGVLSGDVKDVLLLDVSPLSLGIETMGGVMTALIAKNTTIPTKHSQVFSTAEDNQSAVTIHVLQGERKRAHDNKSLGQFNLDGIQAAPRGMPQIEVTFDIDADGILHVSAKDKNSGREQKITIKASSGLNEEEIQKMVRDAEANAEADRKFEELVQARNQGDHLLHSTRKQLEEVGDKLAADDKTAIDDALKALESALKGEDKAEIEAKIQALVQVSGKLLEASQPQPGAEGAADDASARRDDDVVDAEFEEVKDKK |
| 532 | sp|Q8EUM4|DNAJ\_MYCPE | MSSKRDYYEVLGVSKDATDDQIKSAFRKKAMQYHPDRNKEPDAEEKFKEVNQAYEVLSDPDKRANYDRFGHEGVDGQFGGGAGFDPFDIFNQFFGGGRGGGAHFEQSFGGSGFEDIFSNFFGGGRRGASSQQREANLVVSIVLTFVESVVGVKKTIEYKIEKDCESCHGSGADNSEGSISTCSNCNGSGVEITQKRTIMGIIQSQNICSRCNGEGKEIHKKCNSCKGRKVHEERVEIDVEIPGGVSNDEHLKVSGKGSVVGGKTGDLYINIQIKPSKIFSRKGNDIYVILKVDPILAIVGGEANIPTPFGIKSIKMKPGTRNGEIITVPSHGVKSTKRFGSNGDLFAVVEYTSAKRFSSAELKSLSKFAQETNDEIEKYLKEARKEIN |
| 533 | sp|Q6KIH7|DNAK\_MYCMO | MAKEKIIGIDLGTTNSVVAILEDKTPRVLENPNGKRTTPSVVSFKNDDIIVGEVAKRQLETNINTIASIKRKMGTSETVKINDKEYKPEEISAMILSYLKDYAEKKIGSKIKKAVITVPAYFNNAQREATKTAGRIAGLSVERIINEPTAAALAFGLDKTDKEQKILVYDLGGGTFDVSVLELANGTFEVLSTSGDNFLGGDDWDNEIVKWLIGKIKLEHKYDVSKDKMAMARLKEEAEKAKINLSTTSTTSINLPFLAVTDSGPINVEVELKRSDFEKMTQHLVERTRKPVRDALKEAKLKSEDLHEVLLVGGSTRIPAVQEMLQHELNKKPNHSINPDEVVAIGAAIQGAVLSGDINDVLLLDVTPLTLGIETQGGIATPLIQRNTTIPTTKSQIFSTAADNQSEVTINVVQGERQMAADNKSLGQFNLGGIEKAPRGTPQIEVSFSIDVNGIIKVSATDKKTNKIQTITIENSTSLTEEEIKKMIDDAEKNKEADAKKKEKIDVTVRAETLINQLEKTIKDQGDKIDPKEKEQTEKEITNIKDLILQDKIDELKIKLDQIEEVAKAFAQKAASKETSKNEQNEDGSIDAEIKEEDPKA |
| 534 | sp|Q7W520|DNAJ\_BORPA | MAKRDYYEVLGVAKNASDEDLKKAYRKLAMKYHPDRNPDSKEAEEKFKEAKEAYEVLGDEQKRAAYDRYGHAGVDPNAAGMGGGMGGGMGGGFADAFGDIFGEIFGAGRRGGGGPQVYRGADLKYALEITLEQAASGFDTEIRVPSWENCDTCHGSGAKAGTSPKTCRTCGGSGAVRMQQGFFSVQQTCPTCHGTGKEITDPCPSCDGVGRTRRNKTLQVKIPAGIDDGMRIRSSGNGEPGINGGPPGDLYVEIHIKQHKIFQRDGDDLHCELTIPFTTAALGGELQVPTLGGKAEISIPEGTQSGKTFRLRAKGIRGVRGSYPGDLYCHVVVETPVRLSDEQKAILRQFEASLNDGGDRHSPQSKSWTDRVKEFFS |
| 535 | sp|P48205|DNAK\_FRATU | MGKIIGIDLGTTNSCLAIMDGKTAKVIENAEGHRTTPSVVAYTDSGEILVGQAAKRQAVTNPDNTFFAIKRLIGRKYDDKAVQEDIKKKVPYAVIKADNGDAWVATKEGKKMAPPQVSAEVLRKMKKTAEDYLGEPVTEAVITVPAYFNDSQRQATKDAGKIAGLEVKRIINEPTAAALAYGVDSKKGEQTVAVYDLGGGTFDISIIEISDVDGDNQIEVLSTNGDTFLGGEDFDLALMNYLIDEFKKEQGIDLHNDKLALQRVREAAEKAKVELSPAQQTDVNLPYITADATGPKHLNIKVTRAKFESLVSDLVMRSLEPCKKALEDAGLSKSDITEVLLVGGQTRMPLVQEKVKEFFGKEPRKDVNPDEAVAVGAAIQGGVLAGDVKDVLLLDVTPLSLGIETMGGVMTKLIERNTTIPTKKSQVFSTAEDNQPAVTIHVLQGEREMASANKSLGRFDLADIPPAPRGMPQIEVTFDIDANGILNVSAKDKATGKEQNIVIKSSSGLSEEDIEKMVQDAEANAEADKKFHDLVTARNTADNLIHSSRKAIQELGDKVTAAEKEKIEEACKELEAATKGDDKQAIEAKTKALEEAFAPIAQKAYAEQAQAAGAQGGAKAEEPKKEEDVVDADFEDVEDDKK |
| 536 | sp|B1I699|DNAK\_DESAP | MSKIIGIDLGTTNSCMAVMEGGEAVVMPNAEGGRTTPSVVGFSKTGERLVGQVAKRQAISNPERTVTSIKRYMGTDHKVRIEGNEYTPQEISAMILQKMKTDAEAYLGSKVERAVITVPAYFSDAQRQATKDAGRIAGLKVERIINEPTAAALAYGLDKEEDQTILVFDLGGGTFDVSILELGDGVFEVKATSGNNRLGGDDFDQRIIDWIVAEFKKESGIDLSRDRMAMQRLREAAEKAKVELSSVVNTNINLPFITADAEGPKHLDLNLSRAKFEELTADLIEMTMGPTRQAMQDAGLEPKQIDKILLVGGATRMPSVQEAVRRFFGKEPHKGINPDECVAIGAAIQAGVLTGEVKDVVLLDVTPLSLGIETLGGVFTKIIERNTTIPTARSQIFTTAADNQPSVEIHVLQGERQMAAGNKTLGRFNLVGIPPAPRGIPQIEVTFDIDVNGIVNVSAKDLGTGKSQSITITGSTGLSDAEIERMVKEAEQYAEEDRKRREEVEIRNNADALVYQSEKTLKEHRDQADPNQVSELEQAVDRLKKALEGGDIERIKRETENLTGPLHAFTAAMYQKQAQQQQPGPGPDAGKDKDDKDKTVDADYEVK |
| 537 | sp|B5Z9P0|DNAK\_HELPG | MGKVIGIDLGTTNSAMAVYEGNEAKIIANKEGKNTTPSIVAFTDKGEILVGESAKRQAVTNPEKTIYSIKRIMGLMFNEDKAKEAEKRLPYKIVDRNGACAIEISGKVYTPQEISAKILMKLKEDAESYLGESVTEAVITVPAYFNDSQRKATKEAGTIAGLNVLRIINEPTSAALAYGLDKKESEKIMVYDLGGGTFDVTVLETGDNVVEVLATGGDAFLGGDDFDNRVIDFLSAEFKSETGIEIKNDVMALQRLKEAAENAKKELSSAMETEINLPFITADATGPKHLVKKLTRAKFESLTEDLMEETISKIESVIKDAGLTKNEISEVVMVGGSTRIPKVQERVKAFINKDLNKSVNPDEVVAVGASIQGGVLKGDVKDVLLLDVTPLSLGIETLGGVMTKVIDRGTTIPAKKSQVFSTAEDNQPAVSIMVLQGERELARDNKSLGKFDLQGIAPAPRGVPQIEVTFDIDANGILTVSAQDKNTGKSQEIKISGSSGLSDSEIEKMVKDAELHKEEDARKKEVIEARNHADSLAHQTQKSLDEHKTNLNENDANEIQNAINALKDCIKNDNATKAELEDKTKLLAQAAQKLGEAMANKNNAEQPKKKDDDVIDAEVE |
| 538 | sp|B8D757|DNAJ\_BUCAT | MAKKDYYQILGIPKSAEEREIKKAYKKLAMKYHPDRNQGDKTAEGKFKEIKEAYEILINEEKRSAYDQYGHAAFENGQSNSTYSTFTNSADFSDIFGDVFGDIFGGNRTQRAKKGADLCYNMEITLEEAVKGIKKEIQIPTLQKCKTCYGSGTRTGTKPRSCSTCHGKGQIHIRKGFFTVQQSCPTCHGKGTIIADPCNLCHGQGRVETYKILSVKIPPGLDTNDRIRLNNEGEAGANGAQSGDLYVQITVKKHPIFEREGNNLYCEVPINFTMAALGGEIEVPTLDGRVKLKIPYETQSGKLFRIRGRGVKSVQNRNQGDLLCRVVVETPVNLNEQQKNLLHELGNSFHGFRGEKNSPRSKRFFDGVKRFFDDLTR |
| 539 | sp|Q9ZMW4|DNAK\_HELPJ | MGKVIGIDLGTTNSAMAVYEGNEAKIIANKEGKNTTPSIVAFTDKGEILVGESAKRQAVTNPEKTIYSIKRIMGLMFNEDKAKEAEKRLPYKIVDRNGACAIEISGKIYTPQEISAKILMKLKEDAESYLGESVTEAVITVPAYFNDSQRKATKEAGTIAGLNVLRIINEPTSAALAYGLDKKESEKIMVYDLGGGTFDVTVLETGDNVVEVLATGGDAFLGGDDFDNRVIDFLAAEFKNETGIEIKNDVMALQRLKEAAENAKKELSSAMETEINLPFITADATGPKHLVKKLTRAKFESLTEDLVEETISKIESVIKDAGLTKNEISEVVMVGGSTRIPKVQERVKAFINKELNKSVNPDEVVAVGASIQGGVLKGDVKDVLLLDVTPLSLGIETLGGVMTKVIDRGTTIPAKKSQVFSTAEDNQPAVSIMVLQGERELARDNKSLGKFDLQGIAPAPRGMPQIEVTFDIDANGILTVSAQDKNTGKSQEIKISGSSGLSDSEIEKMVKDAELHKEEDARKKEVIEARNHADSLAHQTQKSLDEHKTNLNENDANEIQNAINALKDCIKNDNATKAELEDKTKALTQAAQKLGEAMANKNNAEQPKKKDDDVIDAEVE |
| 540 | sp|Q1MPW1|DNAK\_LAWIP | MGKIIGIDLGTTNSCVYVMEGKEPKCITNPNGGRTTPSVVAFTDKDRLVGDAAKRQAITNSARTIFAVKRLMGRRADSPEVVHWKEHAPYKIVAASNGDAAVEIDGREYSPQEISAIILSKLKADAEAYLGESVSEAVITVPAYFNDAQRQATKDAGRIAGLDVKRIINEPTAASLAYGFDKKANEKIAVFDLGGGTFDVSILEVGDSVVEVLATNGDTFLGGEDFDQRIINYLVEEFKKEQGIDLSKDNMALQRLKDSAENAKKELSTAMETEINLPFITADQSGPKHLLIKLTRAKLEQLVMDLVGRTIEPCSKALEDAGLQTSNIDEVILVGGMTRMPLVQKKVAEFFGKEPNRSVNPDEVVAMGAAIQGGILAGDVKDVLLLDVTPLSLGIETMGGVFTKLIDRNTTIPTRKSQTFTTAADNQPSVSIHVLQGERPMASDNMTLARFDLTGIPPAPRGVPQIEVAFNIDANGIVNVSAKDLGTGKEQSIQITASSGLSEADIEKLIREAESHASEDKKKQEIIEVRNHADGLIYSTEKSIKDLEGKIDAELQADITSKIEALKKVMEGEDSAAIKKATDELASASHKLAEQLYKQTQETSGASGDPTDTSASSSKSGDDVVDADFTEVK |
| 541 | sp|Q128K1|DNAJ\_POLSJ | MAKKDYYDTLGVPKNASDDDIKKAYRKLAMKHHPDRNQGDKSKVSEEKFKEAKEAYEVLSDENKRMAYDQYGHAGVDPNMRGGGPGAEGFGGFAEAFGDIFGDVFGGQRGGQQRGGRQVYRGGDLSYAMEITLEEAAHGKEAQIRIPSWDDCNTCHGSGAKPGTKVVTCTTCHGHGVVQMRQGFFSVQQTCPQCKGTGKLIPEPCVACHGVGKTKNNKTLEVKIPAGIDDGMRIRSTGNGEPGTNGGPPGDLYIEIRIKKHEIFERDGDDLHCAVPISFTTAALGGEIEVPTLAGKAAIDIPEGTQAAKQFRLRGKGIKGVRSSYPGDLYCHITVETPVKLTEHQRKLLKELDESLKKGGARHSPSEEGWADKLKSFFSA |
| 542 | sp|B5F6Y9|DNAJ\_SALA4 | MAKRDYYEILGVSKTAEEREIKKAYKRLAMKYHPDRNQGDKEAEAKFKEIKEAYEVLTDAQKRAAYDQYGHAAFEQGGMGGGFGGGFNGGADFSDIFGDVFGDIFGGGRGRQRAARGADLRYNMDLTLEEAVRGVTKEIRIPTLEECDVCHGSGAKAGTQPQTCPTCHGSGQVQMRQGFFAVQQTCPHCQGRGTLIKDPCHKCHGHGRVEKSKTLSVKIPAGVDTGDRIRLAGEGEAGEHGAPAGDLYVQVQVKQHPIFEREGNNLYCEVPINFAMAALGGEIEVPTLDGRVMLKVPSETQTGKLFRMRGKGVKSVRGGAQGDLLCRVVVETPVGLSEKQKQLLKDLQESFGGPTGEKNSPRSKSFFDGVKKFFDDLTR |
| 543 | sp|Q057X7|DNAJ\_BUCCC | MTKQDYYTTLNISNTASQLDIKRAYKKLAIKYHPDRNQGNKTAEEKFKKIKQAYEILSDTKKRNLYDQYGHSAFEQNNNSNNEFHSSFTTSTSDFNDIFGDVFGDIFGSNKKNRKEKGSDLQYNIILTLEEAVKGIKKEIRIPKLDKCQSCYGYGSAYGSKPSTCTSCNGHGQIHMRKGFFSVQQTCSTCRGTGTMIKNPCKICFGQGRIKKSKKLSITIPAGIDTNDQIRLNNEGEAGKYGAKSGDLYIQIKVKKHPIFKRDENNLHCKIPINFVIAGGSIILYSSFRGEITVPTLEGKINLKIPSETQSGKIFRIRGKGVKSVRKGFQGDLFCKIIVETPVNLNSFQKKILYQLGESFKNYKGENNSPKSKRFFNSVKKFFNNFTK |
| 544 | sp|O34136|DNAJ\_DEIPM | MAYKDYYEVLGVSRSASDSDIKSAYRKLAKQYHPDKNAGDESAAEKFKEIGEAYAVLSDPQKRQAYDQFGHTGQVPPGGYPGGGFQGGDFGGFDPSQFSDFFQEMFGGRAAGMGGRGGFTSPDGRPIDLEDLFGGLGGMGGAAQGGGRRFVQNVEGELQVSLSEAFEGSDEIINVDGRRLSLRVPAGTRDGARLRLAGQGPGGGDVLLTIRVLEDARFELDGDDLTTSVDVPAPVAALGGAVTVQTITGSGQLNVPAGSSGGRRMRLKGQGWPKKSGGRGDLYVRLNVTVPKELSEEERQLYEQLRDLQR |
| 545 | sp|A1W0P5|DNAJ\_CAMJJ | MEISYYELLEITQNADKETIKKAYRKMALKYHPDRNQGDKEAEDKFKLVNEAYEVLSNDEKRAIYDRYGKDALKGGGFGSNSSGFGGFEDLGDIFSSFFGEGFGSSSRRRKSSNDEKIPSDFIFNLKLSFKEAVFGCKKNIDFTYKCSCKTCNGTGAKDGKLQTCPKCQGRGQVGVSQGFITFAQTCPDCQGSGEKASEKCSDCKGLGYNESKDSVELNIPEGVDTGMKLRVNAKGNILKNGTRGDMYVKIIAAEDDTFIRDDDDIYIEFPVFFTQAILGESIKVPTIRGEATLNLPKGAKDGQRFVLEKEGVKDVHSSRMGNQIVQISIKFPTSLNDEQKELLEKLSESFGIKDGMHQEQKGLFEKITNWFKS |
| 546 | sp|Q2FGE3|DNAK\_STAA3 | MSKIIGIDLGTTNSCVTVLEGDEPKVIQNPEGSRTTPSVVAFKNGETQVGEVAKRQAITNPNTVQSIKRHMGTDYKVDIEGKSYTPQEISAMILQNLKNTAESYLGEKVDKAVITVPAYFNDAERQATKDAGKIAGLEVERIINEPTAAALAYGLDKTDKDEKVLVFDLGGGTFDVSILELGDGVFEVLSTAGDNKLGGDDFDQVIIDYLVAEFKKENGVDLSQDKMALQRLKDAAEKAKKDLSGVSQTQISLPFISAGENGPLHLEVNLTRSKFEELSDSLIRRTMEPTRQAMKDAGLTNSDIDEVILVGGSTRIPAVQEAVKKEIGKEPNKGVNPDEVVAMGAAIQGGVITGDVKDVVLLDVTPLSLGIEILGGRMNTLIERNTTIPTSKSQIYSTAVDNQPSVDVHVLQGERPMAADNKTLGRFQLTDIPPAERGKPQIEVTFDIDKNGIVNVTAKDLGTNKEQRITIQSSSSLSDEEIDRMVKDAEVNAEADKKRREEVDLRNEADSLVFQVEKTLTDLGENIGEEDKKSAEEKKDALKTALEGQDIEDIKSKKEELEKVIQELSAKVYEQAAQQQQQAQGANAGQNNDSTVEDAEFKEVKDDDKK |
| 547 | sp|Q73Q16|DNAK\_TREDE | MGKIIGIDLGTTNSCVSVMEGGEPVVIPNSEGGRTTPSIVGFTSKDERVVGQPAKNQMITNPERTVYSVKRFIGHRYSELTDELKRVPYKIVPQGEDVRIDIDGKLYSTQEISAFILQKMKKTAEDYLGETVTEAVITVPAYFNDAQRQATKDAGKIAGLEVKRIINEPTAASLAFGFNKDSKKEKTIAVYDLGGGTFDISILELGDGVFEVKSTNGDTHLGGDDFDNRIVNWLVDEFKKDTGIDLSKDRMALQRLREAAEKAKIELSSVANTEVNLPFITADANGPKHLQKSLSRAKFEQMTEDLFERTKEPCRKALKDAGITPDKIDDILLVGGSTRMPKVLQIIKEIFGKEGSKSVNPDEAVAMGAAIQGGILGGDVKDVLLLDVTPLSLGIETMGGVFTPLINRNTTIPTRKSQVFSTAADGQTAVSIHVLQGERGMASQNRTLGNFDLVGIPPAPRGVPQIEVTFDIDANGIVHVSAKDLGTGKEQHIRIESSSGLSESEIDRMVKEAEANAENDKLEKEKVEAKNNADSLIYQTEKTLKEMGDKIGAADKQKIEAAIADLRQALNSDNTADIKAKTENLQQAAYKIAEEMYKQQGAQAGADPNAGSSQGAQAGTDYGTSGPKTGTADDVDYEVVNDDNDK |
| 548 | sp|Q88DU2|DNAK\_PSEPK | MGKIIGIDLGTTNSCVSILENGNVKVIENAEGARTTPSIVAYANDGEILVGQSAKRQAVTNPHNTLFAVKRLIGRRFEEDVVQKDIKLVPYKIVKANNGDAWVEAAGKEMAPPQISAEVLKKMKKTAEDYLGEPVTEAVITVPAYFNDSQRQATKDAGRIAGLDVKRIINEPTAAALAYGMDKAKGDHTVIVYDLGGGTFDVSVIEIAEVDGEHQFEVLATNGDTFLGGEDFDMRLIDYLVDEFKKESGMDLKNDPLALQRLKEAAEKAKIELSSAQSTDVNLPYITADATGPKHLNVKISRAKLESLVEDLVKRTIEPCRIALKDAGIDASKIDDVILVGGQTRMPLVQKEVADFFGKEARKDVNPDEAVAMGAAIQGAVLAGDVKDVLLLDVSPLTLGIETMGGVMTALIEKNTTIPTKKSQVFSTADDNQSAVTIHVLQGERKQAAQNKSLGKFDLADIPPAPRGVPQIEVTFDIDANGILHVGAKDKATGKTQSIVIKANSGLSDEEIERMVRDAEANAEEDRKFEELAAARNQGDALVHSTRKMVADAGDKVTAEEKTAIEAAVVALEAAVKGDDKAAIDAKVEELSKVSAPVAQKMYAEQSAEQPQGGAQQAEPEAKHDDVVDAEFEEVKDNNKQ |
| 549 | sp|P17821|DNAK\_CHLTR | MSEKRKSNKIIGIDLGTTNSCVSVMEGGQPKVIASSEGTRTTPSIVAFKGGETLVGIPAKRQAVTNPEKTLASTKRFIGRKFSEVESEIKTVPYKVAPNSKGDAVFDVEQKLYTPEEIGAQILMKMKETAEAYLGETVTEAVITVPAYFNDSQRASTKDAGRIAGLDVKRIIPEPTAAALAYGIDKEGDKKIAVFDLGGGTFDISILEIGDGVFEVLSTNGDTHLGGDDFDGVIINWMLDEFKKQEGIDLSKDNMALQRLKDAAEKAKIELSGVSSTEINQPFITIDANGPKHLALTLTRAQFEHLASSLIERTKQPCAQALKDAKLSASDIDDVLLVGGMSRMPAVQAVVKEIFGKEPNKGVNPDEVVAIGAAIQGGVLGGEVKDVLLLDVIPLSLGIETLGGVMTPLVERNTTIPTQKKQIFSTAADNQPAVTIVVLQGERPMAKDNKEIGRFDLTDIPPAPRGHPQIEVTFDIDANGILHVSAKDAASGREQKIRIEASSGLKEDEIQQMIRDAELHKEEDKQRKEASDVKNEADGMIFRAEKAVKDYHDKIPAELVKEIEEHIEKVRQAIKEDASTTAIKAASDELSTHMQKIGEAMQAQSASAAASSAANAQGGPNINSEDLKKHSFSTRPPAGGSASSTDNIEDADVEIVDKPE |
| 550 | sp|C1C5N7|DNAK\_STRP7 | MSKIIGIDLGTTNSAVAVLEGTESKIIANPEGNRTTPSVVSFKNGEIIVGDAAKRQAVTNPDTVISIKSKMGTSEKVSANGKEYTPQEISAMILQYLKGYAEDYLGEKVTKAVITVPAYFNDAQRQATKDAGKIAGLEVERIVNEPTAAALAYGLDKTDKEEKILVFDLGGGTFDVSILELGDGVFDVLSTAGDNKLGGDDFDQKIIDHLVAEFKKENGIDLSTDKMAMQRLKDAAEKAKKDLSGVTSTQISLPFITAGEAGPLHLEMTLTRAKFDDLTRDLVERTKVPVRQALSDAGLSLSEIDEVILVGGSTRIPAVVEAVKAETGKEPNKSVNPDEVVAMGAAIQGGVITGDVKDVVLLDVTPLSLGIETMGGVFTKLIDRNTTIPTSKSQVFSTAADNQPAVDIHVLQGERPMAADNKTLGRFQLTDIPAAPRGIPQIEVTFDIDKNGIVSVKAKDLGTQKEQTIVIQSNSGLTDEEIDRMMKDAEANAEADKKRKEEVDLRNEVDQAIFATEKTIKETEGKGFDAERDAAQAALDDLKKAQEDNNLDDMKAKLEALNEKAQGLAVKLYEQAAAAQQAQEGAEGAQATGNAGDDVVDGEFTEK |
| 551 | sp|P22242|DRPE\_CRAPL | MAQQPTFASAALVSFFLALICSCSYAAWHHEKDDIPKSDVSLLEFPLNLELLEAEFFAWAAFGKGIDELEPELAKGGPSPIGVQKANLSPFIRDIIAQFAYQEFGHVRAIQSSVEGFPRPLLDLSAKSFATVMDSAFGKTLKPPFDPYANDINYLLACYVVPYVGLTGYVGANPKLESPVSRKLVAGLLAVEAGQDAIIRALLYERATDKVEPYGITVAEFTNKISELRNKLGDKGVKDLGLIVEPELGAEGKISGNVLAGDKNSLAFPRTPERCLGSCTAAAMRPSPAAFIPKAPTGKSPSLIWRIRAFSIV |
| 552 | sp|Q9RA63|CLPB\_THET8 | MNLERWTQAAREALAQAQVLAQRMKHQAIDLPHLWAVLLKDERSLAWRLLEKAGADPKALKELQERELARLPKVEGAEVGQYLTSRLSGALNRAEALMEELKDRYVAVDTLVLALAEATPGLPGLEALKGALKELRGGRTVQTEHAESTYNALEQYGIDLTRLAAEGKLDPVIGRDEEIRRVIQILLRRTKNNPVLIGEPGVGKTAIVEGLAQRIVKGDVPEGLKGKRIVSLQMGSLLAGAKYRGEFEERLKAVIQEVVQSQGEVILFIDELHTVVGAGKAEGAVDAGNMLKPALARGELRLIGATTLDEYREIEKDPALERRFQPVYVDEPTVEETISILRGLKEKYEVHHGVRISDSAIIAAATLSHRYITERRLPDKAIDLIDEAAARLRMALESAPEEIDALERKKLQLEIEREALKKEKDPDSQERLKAIEAEIAKLTEEIAKLRAEWEREREILRKLREAQHRLDEVRREIELAERQYDLNRAAELRYGELPKLEAEVEALSEKLRGARFVRLEVTEEDIAEIVSRWTGIPVSKLLEGEREKLLRLEEELHKRVVGQDEAIRAVADAIRRARAGLKDPNRPIGSFLFLGPTGVGKTELAKTLAATLFDTEEAMIRIDMTEYMEKHAVSRLIGAPPGYVGYEEGGQLTEAVRRRPYSVILFDEIEKAHPDVFNILLQILDDGRLTDSHGRTVDFRNTVIILTSNLGSPLILEGLQKGWPYERIRDEVFKVLQQHFRPEFLNRLDEIVVFRPLTKEQIRQIVEIQLSYLRARLAEKRISLELTEAAKDFLAERGYDPVFGARPLRRVIQRELETPLAQKILAGEVKEGDRVQVDVGPAGLVFAVPARVEA |
| 553 | sp|Q4L3I4|CLPC\_STAHJ | MLFGRLTERAQRVLAHAQEEAIRLNHSNIGTEHLLLGLMKEPEGIAAKVLESFNITEDKVIEEVEKLIGHGQDQTGTLHYTPRAKKVIELSMDEARKLHHNFVGTEHILLGLIRENEGVAARVFANLDLNITKARAQVVKALGSPEMSNKNATANKSNNTPTLDGLARDLTVIAKDGTLDPVVGRDKEITRVIEVLSRRTKNNPVLIGEPGVGKTAIAEGLAQAIVNNEVPETLKGKRVMSLDMGTVVAGTKYRGEFEERLKKVMEEIHQAGNVILFIDELHTLVGAGGAEGAIDASNILKPALARGELQCIGATTLDEYRKNIEKDAALERRFQPIQVDEPTVEDTIAILKGLRDRYEAHHRINISDEALEAAAKLSDCYVSDRFLPDKAIDLIDEASSKVRLKSHTTPNNLKEIEQEIEKVKNEKDAAVHAQEFENAANLRDKQTKLEKQYEDAKNEWKTTQGDQSTSLSKEDIGEVIAGWTGIPLTKINETESDRLLNLEQTLHDRVIGQNDAVTSISKAVRRARAGLKDPKRPIGSFIFLGPTGVGKTELARALAESMFGEEDAMIRVDMSEFMEKHAVSRLVGAPPGYVGHDEGGQLTEKVRRKPYSVILFDEIEKAHPDVFNILLQVLDDGHLTDTKGRQVDFRNTVIIMTSNVGAQELQDQRFAGFGGGSEGHDYETIRKTMMKELKNSFRPEFLNRVDDIIVFHKLSKDELKEIVTMMVNKLTQRLSEQDINIVVTDKAKEKIAEEGYDPEYGARPLIRAIQKTVEDNLSELILDGNQIEGKEVVIDHDGDEFKYNINEKNNGISDEGNEVTETEA |
| 554 | sp|Q8PHQ4|CLPB\_XANAC | MRMDKLTSRFQQALADAQSLAVGRDHNIIEPVHVLAALLDQSGGSTRPLLSQAGVNVPLLRERLGEALDTLPKVSGQEGNLSIGNDLNRLLNQTDKLAQQHGDAFIASEWFVLAAADDASPLGVALRAAGGDKKKIEAAIDKLRGGETVQSENAEEQRQALEKYTIDLTARAESGKLDPVIGRDEEIRRTIQVLQRRTKNNPVLIGEPGVGKTAIVEGLAQRIINGEVPEGLRGKRVLSLDMGALIAGAKFRGEFEERLKAVLSDLSKNEGQIILFIDELHTMVGAGKADGAMDAGNMLKPALARGELHCIGATTLDEYRKYIEKDAALERRFQKVFVGEPTVEDTIAILRGLKERYAVHHGVEITDPAIVAAATLSNRYITDRQLPDKAIDLMDEAASRIRMEIDSKPEELDRLERRLIQLKIQREMLKKEKDDASRQRLADLETDIDKLEREFYDLNELWKSEKAALQGTTKVKEQIEHAKLELEAAQRRQDYAKMSEIQYGVLPQLEKQMALANEVEHHDFKLVQDRVTAEEIAEVVSRWTGIPVNKMLEGERDKLLRMEDELHHRVVGQNEAIKVVSDAVRRSRAGLSDPNRPSGSFLFLGPTGVGKTELCKALADFLFDSTEAMIRIDMSEFMEKHSVARLIGAPPGYVGYEEGGYLTEAVRRRPYSLILLDEVEKAHPDVFNILLQVLDDGRLTDGQGRTVDFRNTVIVMTSNLGSHQIQELSGDDSAEAYTQMKAAVMGVVQAHFRPEFINRLDDIVVFHPLDKAQIKSIARIQLQGLEKRLAERGLKLDLDDAALEVLGSVGFDPVYGARPLKRAIQSQVENPLAQQILSGQYLSGDSVRVRADGGRLVFTKD |
| 555 | sp|Q92MK7|CLPB\_RHIME | MDIEKYSERVRGFLQSAQTYALAEGHQQFTPEHVLKVLLDDDQGMAASLIERAGGNAREAKVGTAAALAKLPKVTGGNGSVYLSQPLAKVFTAAEDAAKKAGDSFVTVERLLLALAIESSAATASILSKAGVTPTKLNQVINEIRKGRTADSANAEQGFDSLKKYARDLTAEAREGKLDPVIGRDDEIRRTIQVLSRRTKNNPVLIGEPGVGKTAIAEGLALRIVNGDVPESLKDKRLMALDMGALIAGAKFRGEFEERLKAVLNEVRSEGGEIILFIDEMHTLVGAGKADGAMDASNLLKPALARGELHCVGATTLDEYRKHVEKDAALARRFQPVMVEEPTVEDTISILRGLKEKYEQHHKVRISDSALVAAAALSNRYITDRFLPDKAIDLMDEAASRLRMQVDSKPEELDELDRRVIQLKIEREALKKETDVSSKDRLAKLELDLSSLEEEAAALTARWQAEKQKLGQAADLKKQLDEARNELQIAQRKGEFQRAGELAYGVIPNLEKELAEAESQDGASANPMVQEVVTPDNIAHIVSRWTGIPVDKMLEGERDKLLRMEDELAKWVVGQGDAVQAVSRAVRRSRAGLQDPNRPIGSFIFLGPTGVGKTELTKALARFLFDDETALMRIDMSEYMEKHSVARLIGAPPGYVGYEEGGALTESVRRRPYQVVLFDEIEKAHPDVFNVLLQVLDDGRLTDGQGRTVDFKNTMIIMTSNLGAEYLTALGENEDSDAVRDQVMEVVRAAFRPEFLNRVDEIILFHRLRRSEMGAIVDIQLERLRKLLSDRKITLELEDDARVFLADRGYDPAYGARPLKRAIQKYVQDPLAEKVLQGEFPDGSVIKVVAGSDRLNFKRGAGANKEAA |
| 556 | sp|Q7CEG6|CLPB\_BRUSU | MNIEKYTERVRGFIQSAQTFALSSGNQQFTPEHILKVLIDDDEGLAASLVERAGGRVGDVRMGLQSALEKLPKVSGGNDQLYLSQPLAKVFSLAEELASKAGDSFVTVERLLTALAMEKSAKTSEILSAAGVTPTALNRVINDMRKGRTADSASAESNYDALKKYARDLTEDARAGKLDPVIGRDEEIRRTIQVLSRRTKNNPVLIGEPGVGKTAIAEGLALRIVNGDVPESLKDKQLMALDMGALIAGAKYRGEFEERLKAVLSEVQTAAGQIILFIDEMHTLVGAGKTDGAMDASNLLKPALARGELHCVGATTLEEYRKYVEKDAALARRFQPVFVDEPTVEDTISILRGLKEKYEQHHKVRVSDSALVAAATLSNRYITDRFLPDKAIDLVDEAASRLRMHVDSKPEELDEIDRRIMQLKIEREALKVETDAASKDRLQRIEKELSDLEEESAELTAKWQAEKQKLGLAADLKRQLEEARNALAIAQRNGEFQKAGELAYGTIPQLEKQLADAESQENKGSLLEETVTPDHVAQVISRWTGIPVDRMLEGEREKLLRMEDEIGKRVVGQGEAVQAISKAVRRARAGLQDPNRPIGSFIFLGPTGVGKTELTKALASFLFQDDTAMVRIDMSEFMEKHSVSRLIGAPPGYVGYEEGGVLTEAVRRRPYQVILFDEIEKAHPDVFNVLLQVLDDGRLTDGQGRTVDFRNTVIIMTSNLGAEYLVNLGENDDVETVRDDVMGVVRASFRPEFLNRVDEIILFHRLRREDMGAIVDIQMQRLQYLLSDRKITLQLEDDAREWLANKGYDPAYGARPLKRVIQKEVQDPLAERILLGDILDGSLVKITAGSDRLNFRPISGAFSAAEPEREDEKA |
| 557 | sp|Q14011|CIRBP\_HUMAN | MASDEGKLFVGGLSFDTNEQSLEQVFSKYGQISEVVVVKDRETQRSRGFGFVTFENIDDAKDAMMAMNGKSVDGRQIRVDQAGKSSDNRSRGYRGGSAGGRGFFRGGRGRGRGFSRGGGDRGYGGNRFESRSGGYGGSRDYYSSRSQSGGYSDRSSGGSYRDSYDSYATHNE |
| 558 | sp|Q48493|CSPA\_KLEPN | SKGFGFISPKDGSKDVFVHFSAIQSDSFKTLNEGQEVSFTIENGAK |
| 559 | sp|A0R8U6|CSHA\_BACAH | MTTFRELGLSDSLLQSVESMGFEEATPIQAETIPHALQGKDIIGQAQTGTGKTAAFGLPLLDKVDTHKESVQGIVIAPTRELAIQVGEELYKIGKHKRVRILPIYGGQDINRQIRALKKHPHIIVGTPGRILDHINRKTLRLQNVETVVLDEADEMLNMGFIEDIEAILTDVPETHQTLLFSATMPDPIRRIAERFMTEPQHIKVKAKEVTMPNIQQFYLEVQEKKKFDVLTRLLDIQSPELAIVFGRTKRRVDELSEALNLRGYAAEGIHGDLTQAKRMSVLRKFKEGSIEVLVATDVAARGLDISGVTHVYNFDIPQDPESYVHRIGRTGRAGKKGIAMLFVTPRESGQLKNIERTTKRKMDRMDAPTLDEALEGQQRLIAEKLQSTIENENLAYYKRIAEEMLEENDSVTVVAAALKMMTKEPDTTPIALTSEPPVVSRGGGSKKRGGNGGGYRDGNRNRSRDGRGGDGRNRDRNRDGRNRDGNRDRNREGSRDGNRGRRGEGQGRPGSSNGRGERKHHSRKPQA |
| 560 | sp|Q44317|CSPA\_AERSA | EKGFGFISPADGSKDVFVHFSAIQSTSFKTLDEGQRVEFTIEQGQK |
| 561 | sp|Q818H2|CSHB\_BACCR | MTQQTFTQYDFKPFLIDAVRELRFTEPTGIQQKIFPVVKKGVSVIGQSQTGSGKTHAYLLPTLNRINASREEVQLVITAPTRELAQQIYEEIVKLTKFCAEDQMITARCLIGGTDKQRSIEKLKKQPHIVVGTPGRIKDLVEEQALFVHKANTIIVDEADLMLDMGFIHDVDKIAARMPKNLQMLVFSATIPQKLKPFLKKYMENPEHIHINPKQVAAGNIEHYLVPSKHRNKIDLVHKMLLQFKPYLAVVFTNTKKMADQVADGLMERGLKVGRIHGDLSPRDRKKMMKQIRDLEFQYIVATDLAARGIDIQGISHVINYQPPSDLDFFVHRVARTARAGHSGIAVTIYDPANEEALDSLEKQRHIEFKHVDLRGDEWADLGERRRRKSRKKPNDELDVMATKVIKKPKKVKPNYKRKLATERDKVKRKYSNKKR |
| 562 | sp|Q55804|CRHR\_SYNY3 | MTNTLTSTFADLGLSEKRCQLLADIGFEAPTQIQTEAIPLLLSGRDMLAQSQTGTGKTAAFALPLMDRIDPEGDLQALILTPTRELAQQVAEAMKDFSHERRLFILNVYGGQSIERQIRSLERGVQIVVGTPGRVIDLIDRKKLKLETIQWVVLDEADEMLSMGFIDDVKTILRKTPPTRQTACFSATMPREIKELVNQFLNDPALVTVKQTQSTPTRIEQQLYHVPRGWSKAKALQPILEMEDPESAIIFVRTKQTAADLTSRLQEAGHSVDEYHGNLSQSQRERLVHRFRDGKIKLVVATDIAARGLDVNNLSHVVNFDLPDNAETYIHRIGRTGRAGKTGKAIALVEPIDRRLLRSIENRLKQQIEVCTIPNRSQVEAKRIEKLQEQLKEALTGERMASFLPLVRELSDEYDAQAIAAAALQMIYDQSCPHWMKSDWEVPEVDFNKPVLRRGRNAGGGQNKSGGGYQGKPGKPRRSSGGRRPAYSDRQQ |
| 563 | sp|M1GL27|CYSLP\_CLABA | MDVALKLLLLAALTLLASAQTPIDYKDLSTTLQEHIDKALEEGNRKFGGRHHVALDSFVTPAVTRQSILNVNVFLKVTTCMKTRSYKHRPECNTQKRSTPKINCLVCKMKNGTELVHCARKIDILHGEHKEIRDNCDVTRIGVSSLMAQTMPDDYRKQVGCLGCI |
| 564 | sp|B0KV30|DEGPL\_PSEPG | MSIPRLKSYLTMFAAVLMLGQVLTAQAEEALPDFTSLVEQASPAVVNISTKQKLPDRRIAAGQMPDLEGLPPMFREFFERNMPQQPRSPRGDRQREAQSLGSGFIISSDGYVLTNNHVVADADEIIVRLSDRSELQAKLVGTDPRTDVALLKVEGKNLPIVKLGDSEKLKVGEWVLAIGSPFGFDHSVTKGIVSAKGRTLPNDTYVPFIQTDVAINPGNSGGPLFNMKGEVVGINSQIFTRSGGFMGLSFAIPIDVAIDVSNQLKKDGKVSRGWLGVVIQEVNKDLAESFGLDKPAGALVAQVLENGPAAKGGLQVGDVILSMNGQPIVMSADLPHLVGGLKDGEKAKLEIIRNGKRQNLDISVGALPDDDADIGTGAEGSAERSSNRLGVSVADLTAEQKKSLELKGGVVIKEVQDGPAAMIGLRPGDVISHLNNQAIGSAKEFTEIAKELPKNRSVSMRVLRQGRASFITFKLAE |
| 565 | sp|Q9ZIV1|DNAK\_MEGEL | MSKVIGIDLGTTNSVVAVMEGGEPTVITNTEGSRLTPSVVGFSKTGERLVGQLAKRQAVSNPENTISSIKRHMGESYTVDIQGKKYTPQEISAMILQKLKEDAESYLGEKVTQAVITVPAYFNDGQRQATKDAGKIAGLDVLRIVNEPTAAALAYGLDKGGDGKILVFDLGGGTFDVSILELGDGVFEVKATNGNTHLGGDDFDNKVMEWMISEFKKETGIDLSQDKMAEQRLKEAAEKAKIELSTVLSTNINLPFITADATGPKHLDLTLTRAKFNELTEDLVQATMEPTKKAIADSGFTIDEIDKIILVGGSSRIPAVQEAIKSILGKEPSKGVNPDECVAIGAAIQAGVLVGDVKDVLLLDVTPLSLGIETLGGVFTKIIDRNTTIPTSRSQVFSTAVDNQPSVDVHVLQGRREMAADNKTLGRFELTGIPAAPRGVPRIEVTFNID |
| 566 | sp|Q1MN11|DNAK\_RHIL3 | MAKVIGIDLGTTNSCVAVMDGKDAKVIENAEGARTTPSMVAFSDDGERLVGQPAKRQAVTNPTNTLFAVKRLIGRRYEDPTVEKDKHLVPFTIVKGDNGDAWVEANGKGYSPAQISAMILQKMKETAESYLGEKVEKAVITVPAYFNDAQRQATKDAGRIAGLEVLRIINEPTAAALAYGLDKKEGKTIAVYDLGGGTFDISILEIGDGVFEVKSTNGDTFLGGEDFDMRLVEYLVGEFKRDNGIDLKNDKLALQRLKEAAEKAKIELSSSQQTEINLPFITADASGPKHLTLKLTRAKLESLVDDLVQRTIAPCKAALKDAGVTAAEIDEVVLVGGMSRMPKVQEVVKQLFGKEPHKGVNPDEVVALGAAIQAGVLQGDVKDVLLLDVTPLSLGIETLGGVFTRLIERNTTIPTKKSQTFSTAEDNQQAVTIRVSQGEREMAADNKLLGQFDLVGLPPSPRGMPQIEVTFDIDANGIVQVSAKDKGTGKEQQIRIQASGGLSDADIEKMVKDAEAHATEDKKRREAVEARNQAESLIHSSEKSLKDYGDKVSEADRTAISDAIAALKTASEASEPDADDIKAKTQTLMEVSMKLGQAIYEAQQAEGGAAGDASAESGDNVVDADYEEIKDDDRKKSA |
| 567 | sp|A7X2Y0|DNAJ\_STAA1 | MAKRDYYEVLGISKDASKDEIKKAYRKLSKKYHPDINKEEGADEKFKEISEAYEVLSDDNKRASYDQFGHDGPQGFGGQGFNGSDFGGFSGFGGGGFEDIFSSFFGGGRQRDPNAPQKGDDLQYTMTLTFEEAVFGTTKEISIRKDVTCETCHGDGAKPGTSKKTCSYCNGAGHVAVEQNTILGRVRTEQVCPKCNGSGQEFEEACPTCHGKGTENKTVKLEVKVPEGVDNEQQIRLAGEGSPGVNGGPAGDLYVVFRVKPSETFKRDGDDIYYKLNVSFPQAALGDEIKIPTLNNEVMLTIPAGTQTGKQFRLKEKGIKNVHGYGYGDLYVDIKVVTPTKLTDRQKELMKEFAQLNGEEINEQPSNFKDRAKRFFKGE |
| 568 | sp|C4K3I5|DNAJ\_HAMD5 | MSKKDYYEILGIAKNANEQDIKDAYKRLAKKYHPDRNKDKDAETKFKEMKEAYEVLSDQQKRAAYDQHGHTAFEQSGMGGGFHNSSNFSNVFNDVFSDFFGGHQQRTQRGRDLRYTLNLTLEEAVRGASKEIHITTLVHCEHCKGSGAKQGTRPVTCTTCRGVGEVHMQQGFFTIQQTCPRCHGQGQMIKDPCRQCRGQGKVEEPKTFSVKVPAGIDSNDCLRLNGKGEVGEMGAPSGDLYVQIHVDRHHIFERSKNNLYCKVPINFTTAALGGEIEVPTLDGAIKLKIPPETQTGQCFRIPNKGIKPEKKTPGDLFCTVFIETPVHLNEKQKKLLRDLDQSFCETSSKKNTPETKKFLESMKKFFDNLTH |
| 569 | sp|C3K275|DNAK\_PSEFS | MGKIIGIDLGTTNSCVSVMENGKAKVIENAEGARTTPSIIAYANDGEILVGQSAKRQAVTNPHNTLYAVKRLIGRKFDEEVVQKDIKMVPYKIAKADNGDAWVEVNGNKMSAPQISAEVLKKMKKTAEDYLGETVTEAVITVPAYFNDSQRQATKDAGRIAGLDVKRIINEPTAAALAYGMDKAKGDHTVIVYDLGGGTFDVSVIEIAEVDGEHQFEVLATNGDTFLGGEDFDIRLIDYLVDEFKKESGMNLKGDPLAMQRLKEAAEKAKIELSSSMSTDVNLPYITADATGPKHLNVKISRAKLEALVEDLVQRTIEPCRIALKDAGIDVGSINDVILVGGQTRMPLVQQKVTEFFGKEARKDVNPDEAVAMGAAIQGAVLAGDVKDVLLLDVSPLTLGIETMGGVMTALIEKNTTIPTKKSQVFSTADDNQGAVTIHVLQGERKQAAQNKSLGKFDLAEIPPAPRGVPQIEVTFDIDANGILHVGAKDKATGKEQKITIKANSGLSDEEIQQMIRDAEANADADAKFAELAGARNQGDALVHSTRKMVADAGDKVTAEEKAAIEAAVVALEAAVKGDDKAAIEAKIEELSKVSAPVAQKMYAEQGQPADGAAQQAEPEAKHDDVVDAEFEEVKDQK |
| 570 | sp|Q12Q08|DNAK\_SHEDO | MGKIIGIDLGTTNSCVAVLDGGKARVLENAEGDRTTPSIVAYTDEEIIVGQPAKRQAVTNPNNTFFAIKRLIGRRFKDDEVQRDVDIMPFKIIGADNGDAWVEQRGNKMAPPQVSAEILKKMKKTAEDFLGEEVTEAVITVPAYFNDSQRQATKDAGRIAGLEVKRIINEPTAAALAYGIDKKQGDNIVAVYDLGGGTFDISIIEIDSNDGDQTFEVLATNGDTHLGGEDFDNRLINYLADEFKKDQGLDLRRDPLAMQRLKEAAEKAKIELSSTNQTEVNLPYITADASGPKHLVVKVTRTKLESLVEDLIQRTLEPLKVALADADLSVSEINEVILVGGQTRMPKVQEAVTNFFGKEPRKDVNPDEAVAVGAAIQAGVLSGEVKDVLLLDVTPLSLGIETMGSVMTKLIDKNTTIPTKAQQVFSTADDNQSAVTIHVLQGERKQASANKSLGQFNLEGIEPAPRGQPQVEVMFDIDADGILHVSATDKKTGKKQNITIKASSGLSDEEVEQMVRDAEAHADEDAKFEALVQARNQADGLVHATKKQVTEAGDALASDEKEKIEAAMAAVDEATKGKDAEAIEKATQALIEASAKLMEIAQAKSQAQGGEEAQAKDAGQSNDDVVDAEFEEVKDDKK |
| 571 | sp|Q02605|DNAJ1\_MYCLE | MAQREWVEKDFYKELGVSSDASPEEIKRAYRKLARYLHPDANPDNSAGERFKVVSEAHNVLSDPVKRKEYDETRRLFAGGWLGGRRFDSSFGDFGMGGDGAEFNLNDLFDAASRTGGTNIGDLFGGLFGRGASVRPSRPRRGNDLETEADLDFVEAAKGVAMPLRLTSPAPCTNCHGSGARPGISPKVCSTCNGSGVINRNQGAFGFSEPCTECRGSGSIIEHPCEECKGTGVTTRTRTINVRIPSGVEDGQRIRLAGQGEAGLRGAPSGDLYVTVHVRPDKIFGRNGDDLTVTIPVSFTELALGSTLSVPTLDGTVGVRVPKGTSDGRILRVRGRGVPKRSGGHGDLLVTVKVAVPLNLEGAAQKALEAYAAAERSSGFNPRAGWGR |
| 572 | sp|Q7U6R7|DNAK1\_SYNPX | MGRIVGIDLGTTNSVVAVLEAGRPHVIANAEGGRTTPSVVGYSKDQELLVGQLARRQLVLSPRNTFSNLKRFVGRDWEELEDSSLAVPYTVRANDRGQVRVPCPVTEREYAPEELVASIIRKLVDDASTYLGESVEAAVVTVPAYFNDAQRQATRDAGRLAGIAVERILNEPTAAALAYGFDRSAVRRVLVFDLGGGTFDVSLLRIANGVFDVKATNGDTQLGGNDFDQRIVDWIADAFQAEHGVDLRRDRQALQRLTEAAEKAKQELSGVLTTPISLPFIATGENGPLHVETNLDRSTFEGLCPDLLDRLLMPVQSALRDSGWAADDIDDVVLVGGATRMPMVQQLVRTLVPLDPCQSVNPDEVVAIGAAVQAGILTGELRDLLLNDVTPLSLGLETVGGLMRVLIPRNTPIPVRQSDVFSTSEPNQSSVEIHVWQGERQMASDNKSLGRFRLSGIPPAPRGVPQVQVAFDIDANGLLQVSATDRTTGRKQSVSIQGGSNLNEDEVTALLAEAEARADEDRRKRNQIERRNRAQTLVAQAERRLRDAALELGPYGAERQQRAVEMAMRDVQDCLAQDDLQELDLCLSGLEEALFGLNRRLSAERQSDGRPLQGLRNTLGSLKDELFADDWDDDPWAAPSGPPRGRSLNRRDRDPWDDDFYR |
| 573 | sp|O69269|DNAJ\_LYSSH | MEKRDYYEVLGLTKDEIKKAYRKLSKQYHPDLNKEPGADEKFKEIAEAYEVLSDDQKKARYDQFGHEDPNAGFGGGFGGGGFGGFEDIFSSFFGGGGRRQDPNAPRKGDDLQYRMNIKFEEAIFGKETEIEIPKDETCETCHGSGAKPGTQPETCSTCNGAGQINQAVDTPFGRMMNRRSCTTCHGTGKIIKEKCSTCRGEGKVQKRKKIKVSIPAGVDDGQQIRVSGQGEPGINGGPAGDLYIMFRVQGHNDFERDGDDIYFELKLTFPQAALGDEIEVPTVHGKVKLRIPAGTQSGAQFRLKDKGVKNVHGYGMGNQYVTVKVMTPEKLTEKQKQLLREFAEISGDIPEEQGSSLFDKIKKKFQGE |
| 574 | sp|P69377|DNAK\_PORUM | MGKVVGIDLGTTNSVIAVMEGGKPTVIPNAEGFRTTASVVAYTKSGDKLVGQIARQAVINPENTFYSVKRFIGRKQNEISQEIRQTSYNVKTSGSSIKIECPALNKDFAPEEISAQVLRKLVEDASTYLGETVTQAVITVPAYFNDSQRQATKDAGKIAGLDVLRIINEPTAASLSYGLDKQNNETILVFDLGGGTFDVSILEVGDGVFEVLSTSGDTHLGGDDFDQQIVEWLIKDFKQSEGIDLGKDRQALQRLTEASEKAKIELSNLTQTEINLPFITATQDGPKHLEKTVTRAKFEELCSRLIDKCSIPVNNALKDAKLEASSIDEVVLVGGSTRIPAIQQMVKRLIGKDPNQSVNPDEVVAIGAAVQAGVLAGEVKDILLLDVTPLSLGVETLGGVMTKIIPRNTTIPTKKSEVFSTAVDNQPNVEIQVLQGERELTKDNKSLGTFRLDGIMPAPRGVPQIEVTFDIDANGILSVKAKEKATGKEQSITISGASTLPKDDVERMVKEAEENFDVDQKRRKNIDIRNQAESLCYQSEKQVKEFEDKIDEELKNRITNLISELRSNLEKEELDSIEANSEKLQNALMEIGKNATSAEKDTQNASNDDTVIDTDFSEAK |
| 575 | sp|Q6ME07|DNAJ\_PARUW | MADYYEILEVARGATPEEIKKAYRKKAVQYHPDKNPGDADAEKRFKEISEAYEVLSDEKKRQVYDRYGKEALQGAAGGGQGFSSMDEALRTFMGAFGMGGGGESIFDFFGGGNGAEFGGREGGRGARQGASKRVNINVSFEEAVKGVDKELVISNYANCNVCNGKGSSSSQGIKTCSECKGRGQVFEQRGFFSMTMACPKCHGEGKVITDPCKNCKGQGAVKEKQHIKVHIPAGVDSGMRLKMSGYGDVGQHGGPAGDLYVFINVEPHEIFEREGNDILLDLPISFAEAALGCKKEVPSLTNRACRITIPEGTQNGKIFRVKGEGFPNVHGHGKGDLLVRIFVETPTRLSERQKELLQEFSELEGPNNLPKRKGFLDKIKEFFSPN |
| 576 | sp|P47547|DNAK\_MYCGE | MSADNGLIIGIDLGTTNSCVSVMEGGRPVVLENPEGKRTTPSIVSYKNNEIIVGDAAKRQMVTNPNTIVSIKRLMGTSNKVKVQNADGTTKELSPEQVSAQILSYLKDFAEKKIGKKISRAVITVPAYFNDAERNATKTAGKIAGLNVERIINEPTAAALAYGIDKASREMKVLVYDLGGGTFDVSLLDIAEGTFEVLATAGDNRLGGDDWDNKIIEYISAYIAKEHQGLNLSKDKMAMQRLKEAAERAKIELSAQLETIISLPFLTVTQKGPVNVELKLTRAKFEELTKPLLERTRNPISDVIKEAKIKPEEINEILLVGGSTRMPAVQKLVESMVPGKKPNRSINPDEVVAIGAAIQGGVLRGDVKDVLLLDVTPLTLSIETLGGVATPLIKRNTTIPVSKSQIFSTAQDNQESVDVVVCQGERPMSRDNKSLGRFNLGGIQPAPKGKPQIEITFSLDANGILNVKAKDLTTQKENSITISDNGNLSEEEIQKMIRDAEANKERDNIIRERIELRNEGEGIVNTIKEILASPDAKNFPKEEKEKLEKLTGNIDAAIKANDYAKLKVEIENFKKWREEMAKKYNPTGEQGPQAK |
| 577 | sp|B7HCU0|DNAK\_BACC4 | MSKIIGIDLGTTNSCVAVMEGGEPKVIPNPEGNRTTPSVVAFKNEERQVGEVAKRQAITNPNTIMSVKRHMGTDYKVEVEGKDYTPQEISAIILQNLKASAEAYLGETVTKAVITVPAYFNDAERQATKDAGRIAGLEVERIINEPTAAALAYGLEKQDEEQKILVYDLGGGTFDVSILELADGTFEVISTAGDNRLGGDDFDQVIIDHLVAEFKKENNIDLSQDKMALQRLKDAAEKAKKDLSGVTQTQISLPFISAGAAGPLHLELTLTRAKFEELSAGLVERTLEPTRRALKDAGFAPSELDKVILVGGSTRIPAVQEAIKRETGKEPYKGVNPDEVVALGAAVQGGVLTGDVEGVLLLDVTPLSLGIETMGGVFTKLIERNTTIPTSKSQVFSTAADNQPAVDIHVLQGERPMSADNKTLGRFQLTDLPPAPRGIPQIEVTFDIDANGIVNVRAKDLGTSKEQAITIQSSSGLSDEEVERMVQEAEANADADQKRKEEVELRNEADQLVFQTDKVVKDLEGKVDAAEVAKATEAKEALQAAIEKNELEEIRAKKDALQEIVQQLTVKLYEQAQAAAGQAEGAQGAQDAGAKKDNVVDAEFEEVKEDK |
| 578 | sp|B5YAR4|DNAJ\_DICT6 | MPTKKDYYEILGVPRNATQDEIKQAYRRLVRQYHPDLNKDPSAHEKFKEINEAYEVLSDPQKRAQYDQFGHVGDFSGYGDFQGGWQPGGFDFGDLGRNFEDIFENFFGDSIFGDLFGRRREREKAPRKGADLRYDINITLEEAAFGSEKEIYVTRLETCPTCKGKGTEPGTNPVKCDMCNGTGQIRNMRQTPFGQFVQITTCPKCHGTGQIIINPCHECHGTGKVRRKRRVEFKIPAGVDEGYVIRLAGEGEPGENGGPNGDIYIHIHIIPHKIFKRDNEDIWMELPIDYLIALLGGEVEVPTLEGKEKIYIKPGTQTGEVITLKGKGIPYLRNKNQRGDQKIVVKITVPQNLSPKEKELLLEIAKLRGINIEKDKNIFEQIKKAFKGDN |
| 579 | sp|Q9RY23|DNAK\_DEIRA | MAKAVGIDLGTTNSVIAVMEGGRPEVIVNAEGGRTTPSVVAYKGDEILVGQIARRQAALNPAATLFEVKRFIGRRWDEVKEEAARSPFTVKEGPSGSVRIEVNGKDLAPEQVSAEVLRKLVSDASAKLGNKITDAVITVPAYFDNSQREATRQAGEIAGLNVLRVINEPTAAALAYGLERKGNETVLVFDLGGGTFDVTILELGDGVFEVKSTAGDTHLGGADFDYRIVDWLAGEFQKEHNFDLRKDKQALQRLIEAAEKAKIDLSNASETSISLPFITFDPETRTPMHLERSLSRAKFEELTADLLRRVRQPVEQALSDAKLSAGDINEVILVGGSTRIPAVKRIVQDLVGKTPNESVNPDEAVALGAAVQAGIIQGDSSLGDIVLVDVTPLTLGVEVKGGMIAPMITRNTTVPAKKTEIYTTAENNQPGVEINVLQGERPMAADNKSLGRFKLEGIPPMPAGRAQIEVTFDIDANGILHVTAKEKTSGKESSITIENTTTLDKTDVERMVQEAEQNAAADKQRKEKVEKRNNLDSLRVQAVQQLEEQEGAAQDAKDRLKAAADEAEEAVRSEDDSKIADAQKKLEEELRSFMTANQASTQGQPEGTQAQANKADDDVIDADFKPAE |
| 580 | sp|Q8A8C3|DNAJ\_BACTN | MAEKRDYYEVLEVTKTATVEEIKKAYRKKAIQYHPDKNPGDKEAEEKFKEAAEAYDVLSNPDKRSRYDQFGHAGVSGAAGNGGPFGGFGGEGMSMDDIFSMFGDIFGGRGGGFSGGFGGFSGFGGGGGGSQQRRYRGSDLRVKVKMTLKEISTGVEKKFKLKKYVPCNHCHGTGAEGDGGSETCPTCKGSGSVIRNQQTILGTMQTRTTCPTCNGEGKIIKNKCKECGGDGIVYGEEVVTVKIPAGVAEGMQLSMGGKGNAGKHNGVPGDLLILVEEEPHPDLIRDENDLIYNLLLSFPTAALGGAVEIPTIDGKVKVKIDSGTQPGKVLRLRGKGLPNVNGYGTGDLLVNISIYVPEALNKEEKSTLEKMEASDNFKPSTSVKEKIFKKFKSFFD |
| 581 | sp|Q9ZDY0|DNAJ\_RICPR | MSQDYYQVLGVSKTASQADIKKAYLKLAKQYHPDTTNANDAEKKFKEINAAYDVLKDEQKRAAYDRFGHDAFQSQQARGGGNNGSFHPDINDIFGDFFSDFMGSGRRKQTSSKIRGSDLKYDLTIKLEEAFHGIEKNISFSSEVKCDTCHGTGSEKGETITTCDACGGVGATRIQQGFFTLEQTCHKCQGNGQIIKNPCKKCHGMGRYHKQRNLSINIPAGVENGTRIRHTGEGEAGIRGGNNGDLYVDIAIKPHDIYKVDGANLHCKLPISFVHAALGGEIEVPVIEGGKVKLTIPAGTQNGDQLRLRSKGMSKVRSTIRGDMLTHIHVEVPKNLSKKQRELLEEFKKESINEKENDSSFFNKMKSMWS |
| 582 | sp|Q9MAH3|DJ1B\_ARATH | MASSSLCHRYFNKITVTPFFNTKKLHHYSPRRISLRVNRRSFSISATMSSSTKKVLIPVAHGTEPFEAVVMIDVLRRGGADVTVASVENQVGVDACHGIKMVADTLLSDITDSVFDLIMLPGGLPGGETLKNCKPLEKMVKKQDTDGRLNAAICCAPALAFGTWGLLEGKKATCYPVFMEKLAACATAVESRVEIDGKIVTSRGPGTTMEFSVTLVEQLLGKEKAVEVSGPLVMRPNPGDEYTITELNQVSWSFEGTPQILVPIADGSEEMEAVAIIDVLKRAKANVVVAALGNSLEVVASRKVKLVADVLLDEAEKNSYDLIVLPGGLGGAEAFASSEKLVNMLKKQAESNKPYGAICASPALVFEPHGLLKGKKATAFPAMCSKLTDQSHIEHRVLVDGNLITSRGPGTSLEFALAIVEKFYGREKGLQLSKATLV |
| 583 | sp|A2ZDX9|DHR21\_ORYSI | MEHQGQHGHVTSRVDEYGNPVGTGAGHGQMGTAGMGTHGTTGGMGTHGTTGGMGTHGTTGTGGGQFQPMREEHKTGGVLQRSGSSSSSSSEDDGMGGRRKKGIKEKIKEKLPGGNKGEQQHAMGGTGGAYGQQGHGTGMTTGTTGAHGTTTTDTGEKKGIMDKIKEKLPGQH |
| 584 | sp|O87384|DNAK\_VIBHA | MGKIIGIDLGTTNSCVAVLDGDKPRVIENAEGERTTASVIAYTDGETLVGQPGGNVNAVTNPTRYTLFAIKRLIGRRFEDEEVQRDIEIMPYKIVKADNGDAWVEAKGQKMAAPQVSAEVLKKMKKTAEDFLGEEVTGAVITVPAYFNDAQAQATKDAGRIAGLEVKRIINEPTAAALAYGLDKSGGDRTIAVYDLGGGTFDISIIEIDEVEGEKTFEVLATNGDTHLGGEDFDNRLINYLVDEFNKEQGINLKNDPLAMQRVKEAAEKAKIELSSTSQTDVNLPYVTADATGPKHMNIKVTRAKLESLVEDLVQRSLEPLKVALADADLSVNDITDVILVGGQTRMPMVQAKVAEFFGKEARRDVNPDEAVAMGAAVQGGVLAGEVKDVLLLDVTPLSLGIETMGAVMTKLVEKNTTIPTKANQVFSTAEDNQSAVTIHVLQGERKQASFNKSLGQFNLEGIQAAPRGMPQIEVTFDLDADGILHVSAKDKQTGKEQKITIQASGGLSDDDIEKMVQEAEANKEADKKFEELATARNQADQMIHGTRKQVEEAGEALPAEEKEKIEAAISELETARKGDDKEAIDAKVQALMTAAQKLMEIAQQQAQAQQAQGGYAGAQQSQEDDVVDAEFEEVKDDKK |
| 585 | sp|B1L9B4|DNAK\_THESQ | MAEKKEFVVGIDLGTTNSVIAWMKPDGTVEVIPNAEGSRVTPSVVAFTKSGEILVGEPAKRQMILNPERTIKSIKRKMGTDYKVRIDDKEYTPQEISAFILKKLKNDAEAYLGGEIKKAVITCPAYFNDAQRQATKEAGIIAGLEVLRIINEPTAAALAYGLDKAGKEEKVLVYDLGGGTFDVSILEIGEGVIEVIATAGNNHLGGDDFDQRLIDWMAEEFKKQHGIDLREDRQALQRLRDAAEKAKIELSTKMETDVSLPFIAVSPSGQPLHLEMRITRSLFESLTRDLVEMTRGPIEQALNDAKLSPQDIDEIILVGGMTRVPMVQRFIKEFFGKEPNKSVNPDEAVAIGAAIQAAILAGTEGAKGRDIVLVDVTPLTLGIEVKGGLFEPIIPRNTKIPVRKSKIFTTVEDGQTEVEIRVYQGERPIARENIFLGSFKLVGIPPAPRGVPQIEVTFDIDSDGIVHVSAKDLGSGKEQSMVVTGRHKLSEDEIKRMIEDAKRYEEQDKRLKEEIELKNRADDLAYSVEKTLKEHGDKIPADLKSRLEDMIRELRDAINRNDIPKVKMLFDDLQKESMKIGEYLYKSATGGETSNQ |
| 586 | sp|P22238|DHA\_CRAPL | MAHSLGEQYDLGKPTEEHHESHPPAHQAPHAGGELGAGQKTSQLARSNSSSSSSSEDDGQGGRRKKPIKEKVKEKLPGGAGGKQTGECGTTTTTAAGGHEEKKGVMEKIKEKLPGQH |
| 587 | sp|Q9VQ57|DERL1\_DROME | MDAGVWYRSLPRFTRYWLTATVVLSMLCRFDVIPLHWLHLDRSAVFSKLQLWRCMTSLFVFPISSNTAFHFLINCFFIVQYSSKLEKDQYSRSPADYLYLLIVSAVLANIGGMIFNVYFLMDTLVLAITYIWCQLNKDVTVSFWFGTRFKAMYLPWVLAAFEFIFHFSLASLVGIFVGHVYYFFKFQYSQDLGGTPLLETPQFLKRLVPDVSGGFGGFGLPPESRAPPRQATESPWGRGMTLGRN |
| 588 | sp|A2Z388|DRE1H\_ORYSI | MDMAGHEVNSSSSSSGAESSSSSSGRQQYKKRPAGRTKFRETRHPVYRGVRRRGGAGRWVCEVRVPGKRGARLWLGTYVTAEAAARAHDAAMIALRGGAGGGGAACLNFQDSAWLLAVPPAAPSDLAGVRRAATEAVAGFLQRNKTTNGASVAEAMDEATSGVSAPPPLANNAGSSETPGPSSIDGTADTAAGAALDMFELDFFGEMDYDTYYASLAEGLLMEPPPAATALWDNGDEGADIALWSY |
| 589 | sp|P41406|ENVZ\_SALTI | MRRMRFSPRSSFARTLLLIVTLLFVSLVTTYLVVLNFAILPSLQQFNKVLAYEVRMLMTDKLQLEDGTQLVVPPAFRREIYRELGISLYTNEAAEEAGLRWAQHYEFLSHQMAQQLGGPTEVRVEVNKSSPVVWLKTWLSPNIWVRVPLTEIHQGDFSPLFRYTLAIMLLAIGGAWLFIRIQNRPLVDLEHAALQVGKGIIPPPLREYGASEVRSVTRAFNHMAAGVKQLADDRTLLMAGVSHDLRTPLTRIRLATEMMGEEDGYLAESINKDIEECNAIIEQFIDYLRTGQEMPMEMADLNSVLGEVIAAESGYEREINTALQAGSIQVKMHPLSIKRAVANMVVNAARYGNCWIKVSSGTESHRAWFQVEDDGPGIKPEQRKHLFQPFVRGDSARSTSGTGLGLAIVQRIIDNHNGMLEIGTSERGGLSIRAWLPVPVARVQGTTKEA |
| 590 | sp|Q58FF3|ENPLL\_HUMAN | MAETIQEVEDEYKAFCKSFSKESDDPVACIHFTAEGEVTFKSILFVPTFVPRGLFDEYGSKKSDYIKLYVRCVFITDDFRDTMPKNLNFVKGVVDSGGLSLNVSCETLQQHKLLKVIRKKLVHKTLDMIKKIADEKYNDTFWKEFGTNIKLGVIEDHSNRTCLAKLLRFQSSHHPADITSLHQDVERMKEKQDKICLMAGGYEVIYLTEPVVEYCIQALPEFDGKRFQNVAKEGVKFDDSEKTKESHEAVEKEFEPLPNWVKDKAIKDKIEKAMVSQCLTESLCALVASQYGWSGNMERIMKAQAYQTGKGISTNYHASRKKTFEINPRHPLIRDMLRRIKEDEDDKTVLDLAVVEEPDEEPEETAEDKEQDKDKEMDVGTDEEKQETAKESTAEKDEL |
| 591 | sp|G2TRM0|FMC1\_SCHPO | MSTPTTVYRSLLRQLREMNVIYKTSTLKQKKGFTKTQKDFLVYTKACLRNNKVEQLSKFQEVVAFLKSGNQHELLFNRHHPLANVNELEKVKLAARRVGLESPE |
| 592 | sp|Q9NZ56|FMN2\_HUMAN | MGNQDGKLKRSAGDALHEGGGGAEDALGPRDVEATKKGSGGKKALGKHGKGGGGGGGGGESGKKKSKSDSRASVFSNLRIRKNLSKGKGAGGSREDVLDSQALQTGELDSAHSLLTKTPDLSLSADEAGLSDTECADPFEVTGPGGPGPAEARVGGRPIAEDVETAAGAQDGQRTSSGSDTDIYSFHSATEQEDLLSDIQQAIRLQQQQQQQLQLQLQQQQQQQQLQGAEEPAAPPTAVSPQPGAFLGLDRFLLGPSGGAGEAPGSPDTEQALSALSDLPESLAAEPREPQQPPSPGGLPVSEAPSLPAAQPAAKDSPSSTAFPFPEAGPGEEAAGAPVRGAGDTDEEGEEDAFEDAPRGSPGEEWAPEVGEDAPQRLGEEPEEEAQGPDAPAAASLPGSPAPSQRCFKPYPLITPCYIKTTTRQLSSPNHSPSQSPNQSPRIKRRPEPSLSRGSRTALASVAAPAKKHRADGGLAAGLSRSADWTEELGARTPRVGGSAHLLERGVASDSGGGVSPALAAKASGAPAAADGFQNVFTGRTLLEKLFSQQENGPPEEAEKFCSRIIAMGLLLPFSDCFREPCNQNAQTNAASFDQDQLYTWAAVSQPTHSLDYSEGQFPRRVPSMGPPSKPPDEEHRLEDAETESQSAVSETPQKRSDAVQKEVVDMKSEGQATVIQQLEQTIEDLRTKIAELERQYPALDTEVASGHQGLENGVTASGDVCLEALRLEEKEVRHHRILEAKSIQTSPTEEGGVLTLPPVDGLPGRPPCPPGAESGPQTKFCSEISLIVSPRRISVQLDSHQPTQSISQPPPPPSLLWSAGQGQPGSQPPHSISTEFQTSHEHSVSSAFKNSCNIPSPPPLPCTESSSSMPGLGMVPPPPPPLPGMTVPTLPSTAIPQPPPLQGTEMLPPPPPPLPGAGIPPPPPLPGAGILPLPPLPGAGIPPPPPLPGAAIPPPPPLPGAGIPLPPPLPGAGIPPPPPLPGAGIPPPPPLPGAGIPPPPPLPGAGIPPPPPLPGAGIPPPPPLPGAGIPPPPPLPGAGIPPPPPLPGAGIPPPPPLPGAGIPPPPPLPGAGIPPPPPLPGAGIPPPPPLPGAGIPPPPPLPGVGIPPPPPLPGAGIPPPPPLPGAGIPPPPPLPGAGIPPPPPLPRVGIPPPPPLPGAGIPPPPPLPGAGIPPPPPLPGVGIPPPPPLPGVGIPPPPPLPGAGIPPPPPLPGMGIPPAPAPPLPPPGTGIPPPPLLPVSGPPLLPQVGSSTLPTPQVCGFLPPPLPSGLFGLGMNQDKGSRKQPIEPCRPMKPLYWTRIQLHSKRDSSTSLIWEKIEEPSIDCHEFEELFSKTAVKERKKPISDTISKTKAKQVVKLLSNKRSQAVGILMSSLHLDMKDIQHAVVNLDNSVVDLETLQALYENRAQSDELEKIEKHGRSSKDKENAKSLDKPEQFLYELSLIPNFSERVFCILFQSTFSESICSIRRKLELLQKLCETLKNGPGVMQVLGLVLAFGNYMNGGNKTRGQADGFGLDILPKLKDVKSSDNSRSLLSYIVSYYLRNFDEDAGKEQCLFPLPEPQDLFQASQMKFEDFQKDLRKLKKDLKACEVEAGKVYQVSSKEHMQPFKENMEQFIIQAKIDQEAEENSLTETHKCFLETTAYFFMKPKLGEKEVSPNAFFSIWHEFSSDFKDFWKKENKLLLQERVKEAEEVCRQKKGKSLYKIKPRHDSGIKAKISMKT |
| 593 | sp|Q9LVE2|2A5Z\_ARATH | MIKQIFGKLPRKPSKSLQNDSNGEGGVNNSYYASNSSTTSISKPSSTSSKSSSASGSRVANGTLAPNSMSSNRNTNQGKKPLGGDAVVQAGPFPSSGGVYEALPSFRDVPISEKPNLFIGKLSMCCVVFDFSDPSKNLKEKEIKRQTLLELVDYVASVGFKFNDVSMQELTKMVAVNLFRTFPSANHESKILEIHDMDDEEPSLEPAWPHVQVVYEILLRFVASPMTDAKLAKRYIDHSFVLKLLDLFDSEDQREREYLKTILHRVYGKFMVHRPYIRKAINNIFYRFISETEKHNGIAELLEILGSIINGFALPLKEEHKLFLLRALIPLHKPKCSSVYHQQLSYCIVQFVEKDFKLADTVIRGLLKYWPVTNSSKEVMFLGELEEVLEATQAAEFQRCMVPLSRQIARCLNSSHFQVAERALFLWNNDHIRNLITQNHKVIMPIVFPALERNTRGHWNQAVQSLTINVRKVLCEIDQVLFDECLAKFQVEEVNKTEVKAKRERTWQRLEDLATSKTVVTNEAVLVPRFVSSVNLTTSSSESTGS |
| 594 | sp|Q8WME8|ANGI\_PANTR | MVMGLGVLLLVFVLGLGLTPPTLAQDNSRYTHFLTQHYDAKPQGRDHRYCESIMRRRGLTSPCKDINTFIHGNKRSIKAICENKNGNPHRENLRISKSSFQVTTCKLHGGSPWPPCQYRATAGFRNVVVACENGLPVHLDQSIFRRP |
| 595 | sp|Q9ZVJ6|ANXD4\_ARATH | MALPLELESLTEAISAGMGMGVDENALISTLGKSQKEHRKLFRKASKSFFVEDEERAFEKCHDHFVRHLKLEFSRFNTAVVMWAMHPWERDARLVKKALKKGEEAYNLIVEVSCTRSAEDLLGARKAYHSLFDQSMEEDIASHVHGPQRKLLVGLVSAYRYEGNKVKDDSAKSDAKILAEAVASSGEEAVEKDEVVRILTTRSKLHLQHLYKHFNEIKGSDLLGGVSKSSLLNEALICLLKPALYFSKILDASLNKDADKTTKKWLTRVFVTRADHSDEMNEIKEEYNNLYGETLAQRIQEKIKGNYRDFLLTLLSKSD |
| 596 | sp|Q94CD5|ATG7\_ARATH | MAEKETPAIILQFAPLNSSVDEGFWHSFSSLKLDKLGIDDSPISITGFYGPCGHPQVSNHLTLLSESLPLDEQSLIASTSHGNRNKCPVPGILYNTNTVESFNKLDKQSLLKAEANKIWEDIQSGKALEDPSVLPRFLVISFADLKKWSFRYWFAFPAFVLDPPVSLIELKPASEYFSSEEAESVSAACNDWRDSDLTTDVPFFLVSVSSDSKASIRHLKDLEACQGDHQKLLFGFYDPCHLPSNPGWPLRNYLALIRSRWNLETVWFFCYRESRGFADLNLSLVGQASITLSSGESAETVPNSVGWELNKGKRVPRSISLANSMDPTRLAVSAVDLNLKLMRWRALPSLNLNVLSSVKCLLLGAGTLGCQVARTLMGWGIRNITFVDYGKVAMSNPVRQSLYNFEDCLGRGEFKAVAAVKSLKQIFPAMETSGVVMAIPMPGHPISSQEEDSVLGDCKRLSELIESHDAVFLLTDTRESRWLPSLLCANANKIAINAALGFDSYMVMRHGAGPTSLSDDMQNLDINKTNTQRLGCYFCNDVVAPQDSMTDRTLDQQCTVTRPGLAPIAGALAVELLVGVLQHPLGINAKGDNSSLSNTGNNDDSPLGILPHQIRGSVSQFSQITLLGQASNSCTACSETVISEYRERGNSFILEAINHPTYLEDLTGLTELKKAANSFNLDWEDDDTDDDDVAVDL |
| 597 | sp|P43780|BOLA\_HAEIN | MSIQQIIEQKIQKEFQPHFLAIENESHLHHSNRGSESHFKCVIVSADFKNIRKVQRHQRIYQLLNEELNHSIHALALHLFTPEEWKAQNETVPHSTKCAGIGR |
| 598 | sp|Q56585|BOLA\_VIBAL | MIQEIIEKKLHSELQPSYLKVINESYMHNVPPGSESHFKVIVVSDSFAGQRLIGRHRQVHQILADELDNHIHALAIHTYTDEEWKREQDGAPDSPMCMGGGH |
| 599 | sp|P69228|BAER\_ECOLI | MTELPIDENTPRILIVEDEPKLGQLLIDYLRAASYAPTLISHGDQVLPYVRQTPPDLILLDLMLPGTDGLTLCREIRRFSDIPIVMVTAKIEEIDRLLGLEIGADDYICKPYSPREVVARVKTILRRCKPQRELQQQDAESPLIIDEGRFQASWRGKMLDLTPAEFRLLKTLSHEPGKVFSREQLLNHLYDDYRVVTDRTIDSHIKNLRRKLESLDAEQSFIRAVYGVGYRWEADACRIV |
| 600 | sp|P34940|CH60\_PLAFG | MRMKRIHILFVVIFLLCLRYGYSIKKKRSPNNKNRLFINKRLKYINSKIISRRKENYVKMKMTENKVKGKDIIYGNECRNELLKGILTVSDVVKLTLGPRGRNVLLEKEYGSPLIINDGVTIAKNISLKDRKKNNGVKLMQESTNISNDKAGDGTSSTALMTATITKKGIEQVNRNHNPIPIQRGIQLASKMIIEKIKSLSTPIKTYKDILNIATIASNNDVHMGQIIANAYDKLGKNAAIILDDNADINDKLEFTEGYNFDRGIINPYLLYNENKDYIEYSNVSTLITDQNIDNIQSILPILEIFAKNKQPLCIIADDFSNEVLQTLIINKLKGAIKVLCIVTNSKYISADVGLDLNNLHNNMSSFDNNYLSLLGSANTLIVKKDRTSLITKEEYKKEIDERINVLKKEYEETTSKYDKEKLNERIAALSGGIAKILIGGNSETEQKERKFKYEDATNAVKSAIDIGYVPGGGVTYLEIIKSNFIQEIHKKIEEDLQISSNNDEKKYLELIGNLESEMELQKMGANIVVSSLDVITKQIADNAGVNGDNVVKIILNSKDKYGFGYDVNTNKFVNMVEKGIIDSTNVIISVIKNSCSIASMVLTTECMMVDHEKKDKGILDSSINSPNYLSKHRRTYKHKLHDDEDTDEDDEEDEDDEDDEDDLDDDDYDDEDEEDEEDEEDEDDEDDEDSMNDEYNYDE |
| 601 | sp|Q9KJT8|DNAJ\_PEWBP | MKQKKDYYEVLELSRDAKLDDIKKAYRRLSKKYHPDVCKEANADAKFKEVQEAFDVLSNTNKRAQYDQMGHNFNNQGFNSDFQGFQSANFEEFEDLFSSFFGRRKSNRHQEDIKGEDHHIKLTISFMESVLGTQKTVTFNVKENCEKCDGTGAKTKNDIRICNVCKGNGYISYTQQGWFVSVFGKQICPECGGNKKIYFRPECKFCKGVGMVKSEHKVTLNIPAGVESGMRLKSPNQGHQGPSGAPNGDLYVDINVQPHKTFQRKGNDIFSSILINFYQAALGTIINVDTIHGNVQLKIPAGTQTDTKFRLKNKGVPYVNSPFSIGDHYVIVKIYTPQNLSNTQKKLFEQLEELEELNRKSKTNSSWF |
| 602 | sp|A0Q7F0|DNAK\_FRATN | MGKIIGIDLGTTNSCLAIMDGKTAKVIENAEGHRTTPSVVAYTDSGEILVGQAAKRQAVTNPDNTFFAIKRLIGRKYDDKAVQEDIKKKVPYAVIKADNGDAWVATKEGKKMAPPQVSAEVLRKMKKTAEDYLGEPVTEAVITVPAYFNDSQRQATKDAGKIAGLEVKRIINEPTAAALAYGVDSKKGEQTVAVYDLGGGTFDISIIEIADVDGDNQIEVLSTNGDTFLGGEDFDLALMNYLIDEFKKEQGIDLHNDKLALQRVREAAEKAKVELSSAQQTDVNLPYITADATGPKHLNIKVTRAKFESLVSDLVMRSLEPCKKALEDAGLSKSDITEVLLVGGQTRMPLVQEKVKEFFGKEPRKDVNPDEAVAVGAAIQGGVLAGDVKDVLLLDVTPLSLGIETMGGVMTKLIERNTTIPTKKSQVFSTAEDNQPAVTIHVLQGEREMASANKSLGRFDLADIPPAPRGMPQIEVTFDIDANGILNVSAKDKATGKEQNIVIKSSSGLSEEDIEKMVQDAEANAEADKKFHDLVTARNTADNLIHSSRKAIQELGDKVTAAEKEKIEEACKELEAATKSDDKQAIEAKTKALEEAFAPIAQKAYAEQAQAAGAQGGAKAEEPKKEEDVVDADFEDVEDDKK |
| 603 | sp|Q8DF66|DNAK\_VIBVU | MGKIIGIDLGTTNSCVAVLDGDKPRVIENAEGERTTPSVIAYTDGETLVGQPAKRQAVTNPENTLFAIKRLIGRRFEDEEVQRDIEIMPYKIVKADNGDAWVEAKGQKMAAPQVSAEVLKKMKKTAEDFLGEEVTGAVITVPAYFNDAQRQATKDAGRIAGLEVKRIINEPTAAALAYGLDKQGGDRTIAVYDLGGGTFDISIIEIDEVEGEKTFEVLATNGDTHLGGEDFDNRLINYLVAEFKKDQGIDLKNDPLAMQRVKEAAEKAKIELSSTNQTDVNLPYITADATGPKHMNIKVTRAKLESLVEDLVQRSLEPLKVALADADLSVGDITDVILVGGQTRMPMVQAKVTEFFGKEPRRDVNPDEAVAVGAAVQGGVLAGDVKDVLLLDVTPLSLGIETMGGVMTKLVEKNTTIPTKANQVFSTAEDNQSAVTIHVLQGERKQAMYNKSLGQFNLEGINPAPRGMPQIEVTFDLDADGILHVSAKDKQTGKEQKITIQASGGLSDAEIEKMVQEAEANKEADKKFEELATARNQADQIIHGTRKQVEEAGEALPADEKAKIETAISELEEARKGEDKEAIEAKIQALMAAAQKLMEIAQQQAQAQQGSAEAGAQSQEDDVVDAEFEEVKDDKK |
| 604 | sp|A2ZDX6|DH16C\_ORYSI | MENYQGQHGYGADRVDVYGNPVAGQYGGGATAPGGGHGVMGMGGHHAGAGGQFQPVKEEHKTGGILHRSGSSSSSSSSEDDGMGGRRKKGIKEKIKEKLPGGNKGNNHQQQQMMGNTGGAYGQQGHAGMTGAGTGTGVHGAEYGNTGEKKGFMDKIKEKLPGQH |
| 605 | sp|O67118|DNAK\_AQUAE | MAEKKEKIIGIDLGTTNSVVSVMMGDEAVVIQNQEGSRLTPSVVSWTKEKEILVGEPAKRRAILDPENTVYESKRFIGRKFEEVKEEAKRVSYKVVPDEKGDAAFDIPNAGKLVRPEEVGAHVLRKLKEAAEAFLGEPVKKAVITVPAYFNERQRQATKDAGKIAGLEVVRILNEPTAAAMAYGLHKKDNVRILVYDFGGGTFDVSILEGGEGVIEVKVTAGDTHLGGANIDERIMDWLIEEFKKETGIDLRKDRTALQRLKEASEQAKKELSFKMETEINLPFITIDPNTNQPLHLQKKLTRARLEEMIKDIVDRTIDIVKQALEDAKLKPSDIDEVVLVGGSTRIPLVQQRIKEFFGKEPHKGLNPDEVVAMGAAIQAGVLAGEVKEIVLVDVTPLSLGVETYGGVMTVLIPRNTPIPVRKCEIFTTAHDYQTEVEIHVLQGERPLAKDNKSLAKFYLTGIPPAPRGVPKIEVCFDIDADGILHVTAKDLGTGKEQSVRVEISSGLTPEEIERIIKEAEEHAEEDRKKKELIEAKNQLDHLVYQLEKALKEAGDKVPADVKSEAEKVIEEAKKTIETATEIEQVKQVTEKVLQVSSKMGTTLYGEAGKQAGGGEKKDEGGEGEVEAKPVD |
| 606 | sp|B7ID00|DNAK\_THEAB | MANKKEYVVGIDLGTTNSVIAWMKPDSSVEVIPNAEGARTTPSIVAFSKTGEILVGEPAKRQLILNSERTIKSIKRKMGTDYKVKIDDKDYTPQEISAFILKKLKRDAEEYLGGEVKKAVITCPAYFNDAQRQATKEAGIIAGFEVLRIINEPTAAALAYGLDKKGKEEKVLVYDLGGGTFDVSILEIGDGVIQVVATSGNNHLGGDDFDQRIIDWLAEEFKKQHGVDLREDKQALQRLRDAAEKAKIELSSKLETDISLPYITATAEGPLHLEMRLTRSMFESLTRDLVEMTRKPVEQALSDAKLKPEDIDEIILVGGMTRVPMVQKFIKEIFGKDPNRGVNPDEAVAVGAAIQAAILAGEEGAQGKDIVLVDVTPLTLGIEVKGGLFEPIIPRNSTIPIKKSKVFTTAEDGQTEVEVRVYQGERPIAADNILLGSFRLVGIPPAPRGVPQIEVTFDIDSDGIVHVSAKDLGTGKEQSMVVSGRHQLSEDDINKIIEDAKKFEEQDKRRKEEVELKNKADDLAYYIEKSLKEYGDKIPADEKDKLENLVKDLRDAINKNDIPRIKMLFDELDREKTKIGEYIYKQNQQGGNQQAENQ |
| 607 | sp|A2ZDX4|DH16D\_ORYSI | MEYQGQHGGHASSRADEHGNPAVTTGNAPTGMGAGHIQEPAREDKKTDGVLRRSGSSSSSSSSEDDGMGGRRKKGIKEKIKEKLPGGNKGNNQQQQQEHTTTTTGGAYGPQGHDTKIATGAHGGTAATTADAGGEKKGIVDKIKEKLPGQH |
| 608 | sp|P28640|DHN2\_PEA | MSQYQNQYGAQTRKTDEYGNPMNQVDQYGNPISGGGGLTGEAGRQHYGTTGGATDHGHGQQHRGVDQTTGYGTHTGGVGGYGTKPEYGSTNTGSGYGTGTGYGGSGTTEYVREEHHGDKKGVMDKIKEKIPGTEQSRTHTDGTGYGSTGYGASGGGIGNTGQEYVREELTVHPGDKKHGSAGQEYVKEERRGIGNTGQEYVREEHRVDHGEKKGIMDKIKEKLPGTGGCTGH |
| 609 | sp|Q9LWV3|DRE1C\_ORYSJ | MEYYEQEEYATVTSAPPKRPAGRTKFRETRHPVYRGVRRRGPAGRWVCEVREPNKKSRIWLGTFATAEAAARAHDVAALALRGRGACLNFADSARLLRVDPATLATPDDIRRAAIELAESCPHDAAAAAASSSAAAVEASAAAAPAMMMQYQDDMAATPSSYDYAYYGNMDFDQPSYYYDGMGGGGEYQSWQMDGDDDGGAGGYGGGDVTLWSY |
| 610 | sp|Q10M41|EIL1A\_ORYSJ | MMGGGLVMDQGMMFPGVHNFVDLLQQNGGDKNLGFGALVPQTSSGEQCVMGEGDLVDPPPESFPDAGEDDSDDDVEDIEELERRMWRDRMKLKRLKELQLSRGKDPAGGVVGDPSKPRQSQEQARRKKMSRAQDGILKYMLKMMEVCRAQGFVYGIIPEKGKPVSGASDNLRGWWKEKVRFDRNGPAAIAKYQADNAVPGFESELASGTGSPHSLQELQDTTLGSLLSALMQHCDPPQRRYPLEKGVPPPWWPTGDEEWWPELGIPKDQGPPPYKKPHDLKKAWKVSVLTAVIKHMSPDIEKIRRLVRQSKCLQDKMTAKEISTWLAVVKQEEELYLKLNPGARPPAPTGGITSAISFNASSSEYDVDVVDDCKGDEAGNQKAVVVADPTAFNLGAAMLNDKFLMPASMKEEATDVEFIQKRSASGAEPELMLNNRVYTCHNVQCPHSDYGYGFLDRNARNSHQYTCKYNDPLQQSTENKPSPPAIFPATYNTPNQALNNLDFGLPMDGQRSITELMNMYDNNFVANKNLSNDNATIMERPNAVNPRIQIEEGFFGQGSGIGGSNGGVFEDVNGMMQQPQQTTPAQQQFFIRDDTPFGNQMGDINGASEFRFGSGFNMSGAVEYPGAMQGQQKNDGSNWYY |
| 611 | sp|Q9SYG7|AL7B4\_ARATH | MGSANNEYEFLSEIGLTSHNLGSYVAGKWQANGPLVSTLNPANNQPIAQVVEASLEDYEQGLKACEEAAKIWMQVTAPKRGDIVRQIGDALRSKLDYLGRLLSLEMGKILAEGIGEVQEVIDMCDFAVGLSRQLNGSVIPSERPNHMMLEMWNPLGIVGVITAFNFPCAVLGWNACIALVCGNCVVWKGAPTTPLITIAMTKLVAEVLEKNNLPGAIFTAMCGGAEIGEAIAKDTRIPLVSFTGSSRVGSMVQQTVNARSGKTLLELSGNNAIIVMDDADIQLAARSVLFAAVGTAGQRCTTCRRLLLHESVYDKVLEQLLTSYKQVKIGNPLEKGTLLGPLHTPESKKNFEKGIEVIKSQGGKILTGGKAVEGEGNFVEPTIIEISADAAVVKEELFAPVLYVLKFKSFGEAVAINNSVPQGLSSSIFTRNPENIFRWIGPLGSDCGIVNVNIPTNGAEIGGAFGGEKATGGGREAGSDSWKQYMRRSTCTINYGNELPLAQGINFG |
| 612 | sp|P31347|ANGI\_RABIT | QDDSRYKHFLTQHYDAKPFGRNDRYCETMMKRRDLTSPCKDTNTFVHGNKGSIKDVCEDKNGKPYGKNFRISKSSFQVTTCKHVGGSPWPPCRYRATSGSRNIVIACENGLPVHFDESVFQQKVH |
| 613 | sp|Q9SUG7|ATG11\_ARATH | MSGSFTESFADDGKLLLCVAENGHSFEFQCSETTSVESVMRFVESVSGIALSDQLLLSLDMKLEPQKLLSAFGLPASDREVFVFNKAMLQSNSHPPSPEDVDLQDVADALPPASLHEHHPLDDASDPALKALPLYERQFRYHFHKGRTIYNCTVVKHENCERLTREQKVQQRAVEVATRNLEQYYRVIYQNFLEFMKRYKHQHRLHSDLLMNFGRDIEKLRSAKIHPYLQTESRKCLLDFVKEDNLKKAVENCASSHRQFENKIAQFQQMFVEVKRKVEELFACRASLSMKNLEVTVKDHERFIDEEKSIMQSLSKDVNTVKKLVDDCMSSQVSSSLRPHDAVSALGPMYEVHDKNHLPKMQACYNSISELLDFCKNKKNEMNNFVHGYMQKITYVTYIIKDAKLQFPVFREAMVRQDDLFADLKLVRGVGPAYRACLAEVVRRKASMKLYMGMAGQLAEKLAMKRETEVRKREEFLKTHGPFVPRDVLASMGLYDTPTQCDVNVAPYDTSLLNIEISDVDRYAPEFLVGLHSKIASLKSSLTMSGDSSLSAEPEEIGIDTFDKDNFDDILAASELIEIAGTSKMEVENAKLKADLASAISRICSLGPQFEYEVLDESEVENVLKNAADKTAEALQAKDEYEKHLLLMLKEKQMHCDSYEKRIRELEQRLSDEYLQGQRHNNKDVSGLNLMHEKVSEYKAEASSDVEGNKTHVSGSEPMDEVSCVSNLTSKQPCKAREGMDENMVDSSQVLSQPLDSSMLESQQNNEKGGKDSEAGEMGVFLSNSSTAESPQKSLDDNVATGRGLDAKDSGDIILELRNELMEKSNKLSEMESKLNGAMEEVSNLSRELETNQKLLEESQMNCAHLENCLHEAREEAQTHLCAADRRASQYTALRASAVKMRGLFERFRSSVCAGSGIADFADSLRTLAQALANSVNENEDDGTTEFRKCIRVLADKVSFLSKHREELLEKCQNLEATSEQTRKDLEEKKELVKTLYTKHQLGKQANKEKISFGRLEVHEIAAFVLNQAGHYEAINRNCPNYYLSSESEALFTDHLPSRPTYIVGQIVHIERQIVKLPSQLSASASPEAGKTHHLCSDQGSRTLASSSISTSTSATTTSNPYGLSSGCEYFIVTIAMLPDTAIHQQAS |
| 614 | sp|P14843|AROF\_YEAST | MFIKNDHAGDRKRLEDWRIKGYDPLTPPDLLQHEFPISAKGEENIIKARDSVCDILNGKDDRLVIVIGPCSLHDPKAAYDYADRLAKISEKLSKDLLIIMRAYLEKPRTTVGWKGLINDPDMNNSFQINKGLRISREMFIKLVEKLPIAGEMLDTISPQFLSDCFSLGAIGARTTESQLHRELASGLSFPIGFKNGTDGGLQVAIDAMRAAAHEHYFLSVTKPGVTAIVGTEGNKDTFLILRGGKNGTNFDKESVQNTKKQLEKAGLTDDSQKRIMIDCSHGNSNKDFKNQPKVAKCIYDQLTEGENSLCGVMIESNINEGRQDIPKEGGREGLKYGCSVTDACIGWESTEQVLELLAEGVRNRRKALKK |
| 615 | sp|Q69V10|BH062\_ORYSJ | MVPRDRVNAAAAGGGGEGRLVQSGIVNKKCDKKAPKRIHKSEREKLKRDKQNDLFNELGNLLEPDRQNNGKACVLGETTRILKDLLSQVESLRKENSSLKNESHYVALERNELHDDNSMLRTEILELQNELRTRMEGNPVWSHVNTRPALRVPYPTTGVFPVQHLPHLPVTTTAAFPQQLPVIIEQHYAATPRELQLFPESATSEDSEPSQEHGISDHVTRPQPRYPTPTATLPVNLFPVFPGRQDQQCSSGTSGTNEEDRIGRS |
| 616 | sp|P99104|CH10\_STAAN | MLKPIGNRVIIEKKEQEQTTKSGIVLTDSAKEKSNEGVIVAVGTGRLLNDGTRVTPEVKEGDRVVFQQYAGTEVKRDNETYLVLNEEDILAVIE |
| 617 | sp|B8AME2|CATA3\_ORYSI | MDPYKHRPSSSFNGPLWSTNSGAPVWNNNNSLTVGSRGPILLEDYHLVEKLANFDRERIPERVVHARGASAKGFFEVTHDITHLTCADFLRAPGVQTPVIVRFSTVIHERGSPETLRDPRGFAIKFYTREGNWDLVGNNFPVFFIRDGMKFPDMVHSLKPNPKSHVQENWRILDFFSHHPESLHMFTFLFDDIGIPADYRHMDGSGVNTYTLVNRAGKSHYVKFHWKPTCGVKSLLDDEAVTVGGTNHSHATQDLYDSIAAGNFPEWKLFIQTIDPDHEDRFDFDPLDVTKTWPEDIVPLQPVGRMVLNRNIDNFFSENEQLAFCPGIIVPGIYYSDDKLLQTRIFSYSDTQRHRLGPNYLLLPPNAPKCAHHNNHYDGFMNFMHRDEEVDYFPSRYDPAKHAPRYPIPSATLTGRREKVVIAKENNFKQPGERYRSWDPARQDRFIKRWIDALSDPRLTHEIRSIWLSYWSQADRSLGQKLASRLSAKPSM |
| 618 | sp|Q64433|CH10\_MOUSE | MAGQAFRKFLPLFDRVLVERSAAETVTKGGIMLPEKSQGKVLQATVVAVGSGGKGKSGEIEPVSVKVGDKVLLPEYGGTKVVLDDKDYFLFRDSDILGKYVD |
| 619 | sp|P9WMJ9|DNAK\_MYCTU | MARAVGIDLGTTNSVVSVLEGGDPVVVANSEGSRTTPSIVAFARNGEVLVGQPAKNQAVTNVDRTVRSVKRHMGSDWSIEIDGKKYTAPEISARILMKLKRDAEAYLGEDITDAVITTPAYFNDAQRQATKDAGQIAGLNVLRIVNEPTAAALAYGLDKGEKEQRILVFDLGGGTFDVSLLEIGEGVVEVRATSGDNHLGGDDWDQRVVDWLVDKFKGTSGIDLTKDKMAMQRLREAAEKAKIELSSSQSTSINLPYITVDADKNPLFLDEQLTRAEFQRITQDLLDRTRKPFQSVIADTGISVSEIDHVVLVGGSTRMPAVTDLVKELTGGKEPNKGVNPDEVVAVGAALQAGVLKGEVKDVLLLDVTPLSLGIETKGGVMTRLIERNTTIPTKRSETFTTADDNQPSVQIQVYQGEREIAAHNKLLGSFELTGIPPAPRGIPQIEVTFDIDANGIVHVTAKDKGTGKENTIRIQEGSGLSKEDIDRMIKDAEAHAEEDRKRREEADVRNQAETLVYQTEKFVKEQREAEGGSKVPEDTLNKVDAAVAEAKAALGGSDISAIKSAMEKLGQESQALGQAIYEAAQAASQATGAAHPGGEPGGAHPGSADDVVDAEVVDDGREAK |
| 620 | sp|B9KCH0|DNAK\_CAMLR | MSKVIGIDLGTTNSCVSVYERGESKVIPNKEGKNTTPSVVAFTDKGEILVGDSAKRQAVTNPEKTIYSIKRIMGLMINEDAAKEAKNRLPYHITERNGACAIEIAGKIYTPQEISAKVLMKLKEDAEAFLGEKVEDAVITVPAYFNDAQRKATKEAGTIAGLNVLRIINEPTAAALAYGLDKKESEKIVVYDLGGGTFDVTVLETGDNVVEVLATGGNAFLGGDDFDNKLIDYLASEFKDETGIDLKNDVMALQRLKEAAENAKKELSSANETNVNLPFITADASGPKHLTKTITRAKFESMIDGLVAETISKINEVVKDAGLDKSEVKEIVMVGGSTRVPLVQEEVKKAFGKDLNKSVNPDEVVAIGAAIQGAVIKGDVKDVLLLDVTPLSLGIETLGGVMTKIIEKGTTIPTKKEQTFSTAEDNQSAVTINVLQGEREFSRDNKSLGNFNLEGIPPAPRGMPQIEVTFDIDANGILTVSAKDKATGKAQEIKITGSSGLSEEEINNMVKDAELHKEEDRKRKEAVEARNSADSLVHQVEKSLSELGEKVSDEDKANIQKALDDLKETLKNANASKEEIESKMKTLSEVSHKLAENMYKKDEKPSDDKKKKDDDVIDAEVE |
| 621 | sp|C0ZB48|DNAK\_BREBN | MSRVIGIDLGTTNSCVAVMEGGEPVVIANAEGNRTTPSVVAFKNGERIVGEAAKRQAITNPDNTVISIKRHMGSAHKETLEGNQYTPEQISAMILQKLKADAEAYLGQSVTQAVITVPAYFNDSQRQATKDAGKIAGLEVLRIVNEPTAAALAYGMEKTEDQTVLVFDLGGGTFDVSILELSDGFFEVKATSGDNKLGGDDFDDVVMNYLVSEFKKEHGIDLSKDRMAQQRLKDAAEKAKKDLSGVLTTTISLPFITADATGPKHLEMNLTRAKFEELSAELVERTMGPTRQALKDAGLTPSELDRVILVGGSTRIPAVQEAIKKFTGKEPHKGVNPDEVVALGAAVQAGVLTGDVKDVVLLDVTPLSLGIETLGGVFTKLIDRNTTIPTSKSQVFSTAADNQTSVEIHVLQGERQMAGDNKSLGRFNLSDIPPAPRGIPQIEVSFDIDANGIVNVRAKDLGTGKEQRITITSNSGLSDDDIDRMVKDAELNAEADKQRKEQVEVRNEADQLVFTTEKTLKEVEGKIDQAEIDRANAAKDKVKAALEGSNFEEIKTAKDELSEIIQQISVKLYEQAAQAQAAQGGGAEGQEPKKDNVVDADYEVVDDKK |
| 622 | sp|Q9XCA6|DNAJ\_PORGI | MAEKRDYYEVLGVSKNATDDELKKAYRKKAIQYHPDKNPGDKEAEEHFKEVAEAYDVLSDPQKRSQYDQFGHAGLGGAAGGGFSGGGMSMEDIFSRFGDLFGGFGGFGGFSDMGGGSRRRVRRGSDLRVRVKLSLADISKGVEKKVKVKKQVVCSKCRGDGTEEANGKTTCQTCHGTGVVTRVSNTFLGAMQTQSTCPTCHGEGEIITKPCSKCKGEGVEIGEEVISFHIPAGVAEGMQMSVNGKGNAAPRGGVNGDLIVVIAEEPDPNLIRNGNDLIYNLLISVPLAIKGGSVEVPTIDGRAKIRIEAGTQPGKMLRLRNKGLPSVNGYGMGDQLVNVNVYIPESIDAKDEQAIAAMENSDSFKPTDAARKDIDKKYREMLD |
| 623 | sp|P45554|DNAK\_STAAU | MSKIIGIDLGTTNSCVTVLEGDEPKVIQNPEGSRTTPSVVAFKNGETQVGEVAKRQAITNPNTVQSIKRHMGTDYKVDIEGKSYTPQEISAMILQNLKNTAESYLGEKVDKAVITVPAYFNDAERQATKDAGKIAGLEVERIINEPTAAALAYGLDKTDKDEKVLVFDLGGGTFDVSILELGDGVFEVLSTAGDNKLGGDDFDQVIIDYLVAEFKKENGVDLSQDKMALQRLKDAAEKAKKDLSGVSQTQISLPFISAGENGPLHLEVNLTRSKFEELSDSLIRRTMEPTRQAMKDAGLTNSDIDEVILVGGSTRIPAVQEAVKKEIGKEPNKGVNPDEVVAMGAAIQGGVITGDVKDVVLLDVTPLSLGIEILGGRMNTLIERNTTIPTSKSQIYSTAVDNQPSVDVHVLQGERPMAADNKTLGRFQLTDIPPAERGKPQIEVTFDIDKNGIVNVTAKDLGTNKEQRITIQSSSSLSDEEIDRMVKDAEVNAEADKKRREEVDLRNEADSLVFQVEKTLTDLGENIGEEDKKSAEEKKDALKTALEGQDIEDIKSKKEELEKVIQELSAKVYEQAAQQQQQAQGANAGQNNDSTVEDAEFNEVKDDDKK |
| 624 | sp|B0S1F7|DNAJ\_FINM2 | MKNLYEILEVNENATQEEIKKSYRRLAKKYHPDINSGDSEAENKFKEINGAYEVLGDKEKRKKYDMYGDRMFDQGTGGGFSDFGDIFGDFFGDIFGGFSSRSYSKNPNAPRKGSNIQVELEIDFEDSINGTKKEISYKKKVKCHVCNGDGAKPGTEKRQCEKCHGTGIINDTKRTPFGIFTQQSECDKCHGEGYVIDEKCENCKGKGYEIERKTINITIPKGINNGAIMSVKGEGNDGENNGSPGDLYVIIKIREHEFFKRINNDIVFDMPITYAQAVLGSKIEVPTLDGIEEFELPEGTQPNTTFKLKSKGVPYLNSNSRGDILFTVKIIVPKKINKEQKEKLIKFSESMNQELNVNEKKSIFDRIKDMFE |
| 625 | sp|P0C0C6|DNAK\_STRP1 | MSKIIGIDLGTTNSAVAVLEGTESKIIANPEGNRTTPSVVSFKNGEIIVGDAAKRQAVTNPETVISIKSKMGTSEKVSANGKEYTPQEISAMILQYLKGYAEDYLGEKVEKAVITVPAYFNDAQRQATKDAGKIAGLEVERIVNEPTAAALAYGMDKTDKDEKILVFDLGGGTFDVSILELGDGVFDVLATAGDNKLGGDDFDQKIIDFLVAEFKKENGIDLSQDKMALQRLKDAAEKAKKDLSGVTQTQISLPFITAGSAGPLHLEMSLSRAKFDDLTRDLVERTKTPVRQALSDAGLSLSEIDEVILVGGSTRIPAVVEAVKAETGKEPNKSVNPDEVVAMGAAIQGGVITGDVKDVVLLDVTPLSLGIETMGGVFTKLIDRNTTIPTSKSQVFSTAADNQPAVDIHVLQGERPMAADNKTLGRFQLTDIPAAPRGIPQIEVTFDIDKNGIVSVKAKDLGTQKEQHIVIKSNDGLSEEEIDRMMKDAEANAEADAKRKEEVDLKNEVDQAIFATEKTIKETEGKGFDTERDAAQSALDELKAAQESGNLDDMKAKLEALNEKAQALAVKMYEQAAAAQQAAQGAEGAQANDSANNDDVVDGEFTEK |
| 626 | sp|Q72IK5|DNAK\_THET2 | MAKAVGIDLGTTNSVIAVLEGGKPVVLENAEGERVTPSVVAFRDGETLVGRMAKRQAVLNPEGTIFEIKRFIGRRFEEVQEEAKRVPYKVVPGPDGGVRVEVKGKLYTPEEISAMILRKLVEDASKKLGEKITKAVITVPAYFNNAQREATANAGRIAGLEVLRIINEPTAAALAYGLDKKGNETVLVFDLGGGTFDVTVLEIGEGVFEVKATSGDTHLGGSDMDHAIVNWLAEEFKKEHGVDLKADRQALQRLIEAAEKAKIELSSTLETTISLPFIALDPASKTPLHLEKKLTRAKFEELIQPLLKRLRGPVEQALKDAGLTPAQIDEVILVGGATRVPAVQQVVRELLGKEPNRSVNPDEVVAMGAAIQAGVLMGEVRDVVLLDVTPLSLGVETKGGVMTVLIPRNTTIPTRKCEIFTTAEHNQTAVEIHVLQGERPMAQDNKSLGRFRLEGIPPMPAGVPQIEVCFDIDANGILHVTAKERSTGREASITIQNTTTLSEEEIQRIIEEAKRHAEEDRRRREHAELKNALDSARVQAERVLQERQGAPEARARLEAAIGKAKELVERDAPDPELKAATEELLKAVEEYEKGAQAASGKGPDDVIDADYKPAD |
| 627 | sp|P0C0C5|DNAK\_STRPY | MSKIIGIDLGTTNSAVAVLEGTESKIIANPEGNRTTPSVVSFKNGEIIVGDAAKRQAVTNPETVISIKSKMGTSEKVSANGKEYTPQEISAMILQYLKGYAEDYLGEKVEKAVITVPAYFNDAQRQATKDAGKIAGLEVERIVNEPTAAALAYGMDKTDKDEKILVFDLGGGTFDVSILELGDGVFDVLATAGDNKLGGDDFDQKIIDFLVAEFKKENGIDLSQDKMALQRLKDAAEKAKKDLSGVTQTQISLPFITAGSAGPLHLEMSLSRAKFDDLTRDLVERTKTPVRQALSDAGLSLSEIDEVILVGGSTRIPAVVEAVKAETGKEPNKSVNPDEVVAMGAAIQGGVITGDVKDVVLLDVTPLSLGIETMGGVFTKLIDRNTTIPTSKSQVFSTAADNQPAVDIHVLQGERPMAADNKTLGRFQLTDIPAAPRGIPQIEVTFDIDKNGIVSVKAKDLGTQKEQHIVIKSNDGLSEEEIDRMMKDAEANAEADAKRKEEVDLKNEVDQAIFATEKTIKETEGKGFDTERDAAQSALDELKAAQESGNLDDMKAKLEALNEKAQALAVKMYEQAAAAQQAAQGAEGAQANDSANNDDVVDGEFTEK |
| 628 | sp|Q8CWT3|DNAK\_STRR6 | MSKIIGIDLGTTNSAVAVLEGTESKIIANPEGNRTTPSVVSFKNGEIIVGDAAKRQAVTNPDTVISIKSKMGTSEKVSANGKEYTPQEISAMILQYLKGYAEDYLGEKVTKAVITVPAYFNDAQRQATKDAGKIAGLEVERIVNEPTAAALAYGLDKTDKEEKILVFDLGGGTFDVSILELGDGVFDVLSTAGDNKLGGDDFDQKIIDHLVAEFKKENGIDLSTDKMAMQRLKDAAEKAKKDLSGVTSTQISLPFITAGEAGPLHLEMTLTRAKFDDLTRDLVERTKVPVRQALSDAGLSLSEIDEVILVGGSTRIPAVVEAVKAETGKEPNKSVNPDEVVAMGAAIQGGVITGDVKDVVLLDVTPLSLGIETMGGVFTKLIDRNTTIPTSKSQVFSTAADNQPAVDIHVLQGERPMAADNKTLGRFQLTDIPAAPRGIPQIEVTFDIDKNGIVSVKAKDLGTQKEQTIVIQSNSGLTDEEIDRMMKDAEANAEADKKRKEEVDLRNEVDQAIFATEKTIKETEGKGFDAERDAAQAALDDLKKAQEDNNLDDMKAKLEALNEKAQGLAVKLYEQAAAAQQAQEGAEGAQATGNAGDDVVDGEFTEK |
| 629 | sp|Q5HNW6|DNAK\_STAEQ | MGKVIGIDLGTTNSCVSILEGDEPKVIQNPEGARTTPSVVAFKNGETQVGEVAKRQAITNPNTVQSIKRHMGTDYKVDIEGKSYTPQELSAMILQNLKSTAENYLGDTVDKAVITVPAYFNDGERQATKDAGKIAGLEVERIINEPTAAALAYGLDKTETDQKVLVFDLGGGTFDVSILELGDGVFEVLSTAGDNKLGGDDFDQVIIDYLVSEFKKENGVDLSQDKMALQRLKDAAEKAKKDLSGVSQTQISLPFISAGENGPLHLEISLTRSKFEELADSLIKKTMEPTRQALKDAGLSTSEIDEVILVGGSTRIPAVQEAVKKEIGKEPHKGVNPDEVVAMGAAIQAGVITGDVKDVVLLDVTPLSLGIEIMGGRMNTLIERNTTIPTSKSQVYSTAADNQPAVDIHVLQGERPMASDNKTLGRFQLTDIPPAPRGVPQIEVTFDIDKNGIVNVTAKDLGTNKEQNITIQSSSSLSDEEIDRMVKDAEENAEADKKRREEVDLRNEADSLVFQVEKTVKDLGENISDEDKKNAEEKKDALKTALEGEDIDDIKAKKEELEKVIQELSAKVYEQAQQAQQQGQEEQGSQDSTVEDADFKEVKDDEDKK |
| 630 | sp|Q97BG8|DNAK\_THEVO | MSKIIGIDLGTSNSAAAVVISGKPTVIPSSEGVSIGGKAFPSYVAFTKDGQMLVGEPARRQALLNPEGTIFAAKRKMGTDYKFKVFDKEFTPQQISAFILQKIKKDAEAFLGEPVNEAVITVPAYFNDNQRQATKDAGTIAGFDVKRIINEPTAAALAYGVDKSGKSEKILVFDLGGGTLDVTIIEISKRPNVQVLSTSGDTQLGGTDMDEAIVNYIADDFQKKEGIDLRKDRGAYIRLRDAAEKAKIELSTTLSSDIDLPYITVTSSGPKHIKMTLTRAKLEELISPIVERVKAPIDKALEGAKLKKTDITKLLFVGGPTRIPYVRKYVEDYLGIKAEGGVDPMEAVAIGAAIQGAVLKGEIKDIVLLDVTPLTLSVETLGGIATPIIPANTTIPVRKSQVFTTAEDMQTTVTIHVVQGERPLAKDNVSLGMFNLTGIAPAPRGIPQIEVTFDIDSNGILNVTAVDKATGKKQGITITASTKLSKDEIERMKKEAEQYAEQDRKMKEQIETLNNAESLAYSVEKTLNEAGDKVDKETKDRILSEVKDLRKAIEEKNMDNVKTLMEKISKDIQEVGTKMYQSASSTTQTGSGNQNSSKQENDKTVDAEYKEKS |
| 631 | sp|Q7MN85|DNAK\_VIBVY | MGKIIGIDLGTTNSCVAVLDGDKPRVIENAEGERTTPSVIAYTDGETLVGQPAKRQAVTNPENTLFAIKRLIGRRFEDEEVQRDIEIMPYKIVKADNGDAWVEAKGQKMAAPQVSAEVLKKMKKTAEDFLGEEVTGAVITVPAYFNDAQRQATKDAGRIAGLEVKRIINEPTAAALAYGLDKQGGDRTIAVYDLGGGTFDISIIEIDEVEGEKTFEVLATNGDTHLGGEDFDNRLINYLVAEFKKDQGIDLKNDPLAMQRVKEAAEKAKIELSSTNQTDVNLPYITADATGPKHMNIKVTRAKLESLVEDLVQRSLEPLKVALADADLSVGDITDVILVGGQTRMPMVQAKVTEFFGKEPRRDVNPDEAVAVGAAVQGGVLAGDVKDVLLLDVTPLSLGIETMGGVMTKLVEKNTTIPTKANQVFSTAEDNQSAVTIHVLQGERKQAMYNKSLGQFNLEGINPAPRGMPQIEVTFDLDADGILHVSAKDKQTGKEQKITIQASGGLSDAEIEKMVQEAEANKEADKKFEELATARNQADQIIHGTRKQVEEAGEALPADEKAKIETAISELEEARKGEDKEAIEAKIQALMAAAQKLMEIAQQQAQAQQGSAEAGAQSQEDDVVDAEFEEVKDDKK |
| 632 | sp|Q8D2Q5|DNAK\_WIGBR | MEILMGNIIGIDLGTTNSCVAIIENGKVKVIENSEGDRTTPSIIAYTEENEILVGQPAKRQSVTNPKNTFFAIKRLIGRKFTDHEVQRDVNIMPYKIVSSENGDVWLNVKNQKVAPPQISAEILKKMKKTAEDYIGKSITEAVITVPAYFNDTQRQATKDAGKIAGLDVKRIINEPTAAALAYGLDKKTGNRIIAVYDLGGGTFDISIIEIDDVDGEKTFEVLSTNGDTHLGGEDFDSRLINYLVNEFKKEQGIDLRNDPLAMQRLKESSEKAKIELSSVHQTDVNLPYITADSSGPKHMNIKVTRAKLESLVEELIYKTLEPVKTSLKDAKLKIIDIKDVILVGGQTRMPLVQKKVSDFFGKEPRKDVNPDEAVAIGAAVQGGVLAGDVKDVLLLDVTPLSLGIETMGGVMTTLISKNTTIPTKHSQIFSTAEDNQSAVTIHVLQGERKRSIDNKSLGQFNLDGIAPAMRGMPQIEVTFDIDADGILHVSAKDKNSGREQKITIKASSGLSENEIDKMLKESEANAELDIKFEELVKTKNQADHLLHSTRKQIKEAKNLPLEKKTEIEKCINELELSIKGEDKKDIEIKIQSLIQISSCLVDFSKNKENLNKEDIIKTNKKENNNKTNDDVVDAEFEEIKDKKN |
| 633 | sp|Q7MA35|DNAK\_WOLSU | MGKVLGIDLGTTNSAMAVFEGNEGKIIANKEGRNTTPSVVAFTDKGEILVGDPAKRQAITNPQKTIYSIKRIMGLMMSEDKAKEAQKRLPYKVVDRNGACAVEIADKVYTPQEISAKILMKLKEDAEAYLGEEVSEAVITVPAYFNDAQRKATKEAGTIAGLNVLRIINEPTSAALAYGLDKKHAEKIVVYDLGGGTFDVTVLETGDNVVEVLATGGDAFLGGDDFDNRIIDWAAKEFEAENGIDLKKDVMALQRLKDAAENAKKELSSANETEINLPFITADATGPKHLVKKISRAKFESLIDDLIEQTIQKIDFVIKDAGLAKSDIAEVVMVGGSTRIPKVQQRVKDFIGKELNKSVNPDEVVALGAAIQGGVLKGDVKDVLLLDVTPLSLGIETLGGVMTKIIDRGTTIPVKKSQVFSTAEDNQPAVTIQVLQGERELARDNKSLGMFELSGIPAAPRGVPQIEVTFDIDANGILTVSAKDKATGKSQEIKITGSSGLSDSEIEKMVKDAELHKEEDSKRKSMIEAKNQADSLLYQTEKSLGEFKDQLEESERTKIESAINDLKETLKKENLTKEEIDEKVKALTEVSHKLAEAMYKKENPQAADAQQGNTANAGKKKDDDVIDAEVE |
| 634 | sp|A7IC65|DNAK\_XANP2 | MAKIIGIDLGTTNSCVAVMEGSTPKVIENAEGARTTPSIVAFTEDGERLVGQPAKRQSVTNPERTFFAVKRLIGRRYDDPTVEKDKHLVPYSIVRADNGDAWVEADGKKYSPSQISAFVLQKMKETAESFLGEKVEKAVITVPAYFNDAQRQATKDAGRIAGLEVLRIINEPTAAALAYGLDKKSAGTIAVYDLGGGTFDVSVLEIGDGVFEVKSTNGDTFLGGEDFDMRLVTYLADEFKKEQGIDLRNDKLALQRLKEAAEKAKIELSSATQTEINLPFITADATGPKHLTLKLTRAKFEALVDDLIQRTVEPCRLALKDAGLTAGQIDEVVLVGGMTRMPKVQEVVKQFFGKEPHKGVNPDEVVAIGAAVQAGVLQGDVKDVLLLDVTPLSLGIETLGGVFTRLIDRNTTIPTKKSQTFSTAEDGQTAVTIRVFQGEREMAADNKMLGQFDLMGIPPAPRGVPQVEVTFDIDANGIVQVSAKDKGTGKEQQIRIQASGGLNDADIEKMVKDAEAHAAEDKKRRALVEAKNHAEALVHSTEKAVAEHGDKVGAVEKGAIEAALADLKSTLEGDDVEAITAKTNTLAQASLKLGEAMYAAQQPGAEGAAKPADDVVDAEFTEVDDDKKKSA |
| 635 | sp|P23283|DRPF\_CRAPL | MEAMSFAARSTVLSISKSFPKNNSPTYLTLRPKFSRVRFTTVASQSQGRQQVSENAEDAKKKFSETTDSLKHKTSEATDSASHKANGAARETNDKAKETYNAASGKAGELKDKTQEGAENVREKAMDAGNDAMEKTRNAGERVADGVSNVGQNVKENVMGAGEKVKEFAEDVKDTVMGKSEEVKNQAEHETKKRSTSTNYF |
| 636 | sp|P08110|ENPL\_CHICK | MKSAWALALACTLLLAASVTAEEVDVDATVEEDLGKSREGSRTDDEVVQREEEAIQLDGLNASQIKEIREKSEKFAFQAEVNRMMKLIINSLYKNKEIFLRELISNASDALDKIRLISLTDENALAGNEELTVKIKCDKEKNMLHVTDTGIGMTKEELIKNLGTIAKSGTSEFLNKMTEMQDDSQSTSELIGQFGVGFYSAFLVADRVIVTSKHNNDTQHIWESDSNEFSVIDDPRGNTLGRGTTITLVLKEEASDYLELDTVKNLVKKYSQFINFPIYVWSSKTETVEEPVEEEEAKEEKEETDDNEAAVEEEEEEKKPKTKKVEKTVWDWELMNDIKPIWQRPSKEVEEDEYKAFYKTFSKEHDDPMAYIHFTAEGEVTFKSILFVPNSAPRGLFDEYGSKKSDFIKLYVRRVFITDDFHDMMPKYLNFVKGVVDSDDLPLNVSRETLQQHKLLKVIRKKLVRKTLDMIKKIAEEKYNDTFWKEFGTNVKLGVIEDHSNRTRLAKLLRFQSSHHESNLTSLDQYVERMKEKQDKIYFMAGASRKEAESSPFVERLLKKGYEVIYLTEPVDEYCIQALPEFDGKRFQNVAKEGVKFEESEKSKESREALEKEFEPLLNWMKDKALKDKIEKAVLSQRLTQSPCALVASQYGWSGNMERIMKAQAYQTGKDISTNYYASQKKTFEINPRHPLIKDMLRRVKENEDDKTVSDLAVVLFETATLRSGYMLPDTKEYGDRIERMLRLSLNIDLDAKVEEEPEEPEDAAEEAEQDEEEVDADAEDSETQKESTDVKDEL |
| 637 | sp|Q6Z312|BZP23\_ORYSJ | MDFPGGSGRQQQLPPMTPLPLARQGSVYSLTFDEFQSTLGGVGKDFGSMNMDELLRSIWTAEESHAVGAATTTTATTASVAAAEHAAVGAPPVQRQGSLTLPRTLSQKTVDEVWRDMMCFGGGGASTAPAAAEPPPPAHRQQTLGEITLEEFLVRAGVVREDMSVPPVPPAPTPTAAAVPPPPPPQQQTPMLFGQSNVFPPMVPPLSLGNGLVSGAVGHGGGGAASLVSPVRPVSSNGFGKMEGGDLSSLSPSPVPYVFKGGLRGRKAPGIEKVVERRQRRMIKNRESAARSRQRKQAYMMELEAEVAKLKELNDELQKKQDEMLEQQKNEVLERMSRQVGPTAKRICLRRTLTGPW |
| 638 | sp|P26772|CH10\_RAT | MAGQAFRKFLPLFDRVLVERSAAETVTKGGIMLPEKSQGKVLQATVVAVGSGGKGKGGEIQPVSVKVGDKVLLPEYGGTKVVLDDKDYFLFRDGDILGKYVD |
| 639 | sp|A8FFD2|DNAK\_BACP2 | MSKIIGIDLGTTNSCVAVLEGGEPKVIANAEGARTTPSVVAFKNGERQVGEVAKRQSITNPNTIMSVKRHMGTDYKVEVEGKNYTPQEISAIILQHLKSYAEGYLGEEVTKAVITVPAYFNDAERQATKDAGKIAGLEVERIINEPTAAALAYGLDKTDEDQTILVYDLGGGTFDVSVLELGDGVFEVRSTAGDNRLGGDDFDQVIIDHLVAEFKKENGIDLSKDKMALQRLKDAAEKAKKDLSGVSSTQISLPFITAGDAGPLHLELTLTRAKFEELSADLVERTMTPVRQSLKDAGLSASEIDKVILVGGSTRIPAVQEAIKKETGKEPHKGVNPDEVVALGAAIQGGVITGDVKDVVLLDVTPLSLGIETMGGVFTKLIERNTTIPTSKSQVFSTAADNQTAVDIHVLQGERPMAADNKTLGRFQLTDIPPAPRGVPQIEVSFDIDKNGIVNVRAKDMGTGKEQNITIKSSSGLSDDEIEKMVKEAEENAEADAKKKEEIEVRNEADQLVFTTEKTLKDLEGKIDEEQVKKANDAKDALKAAIEKGELEDIKAKKDELQTIVQELTTKLYEEAAKQAQAQQEGGAEGAQKADDNVVDAEYEEVNDDQEKK |
| 640 | sp|Q2SSB0|DNAK\_MYCCT | MAKEKIIGIDLGTTNSVVSVIEGGQPIILENPEGQRTTPSVVAFKNSDIIVGGAAKRQAVTNPNVVQSIKSKMGTTSKVNLEGKDYSPEQISAEILRYMKNYAEAKLGQKVTKAVITVPAYFNDAQRKATKDAGTIAGLQVERIINEPTAAALAYGLDKQDKEETILVYDLGGGTFDVSILAIGGGSFDVIATSGNNKLGGDNFDEEIIKWLLGKIKAEYNIDLSKEKMALQRLKDEAEKAKINLSSQLEVEINLPFIAMNESGPISFATTLTRSEFNKITKHLVDLTIQPVKDALSAAKKTPSEINEVLLVGGSTRIPAVQELVKSLLNKEPNRSINPDEVVAMGAAVQGGVLAGEVTDILLLDVTPLSLGIETMGGVMTKLIERNTTIPAKRTQIFSTATDNQPAVDINVLQGERAMAADNKSLGQFQLTGIQPAPRGIPQIEVTFEIDANGIVSVSAKDKNTNEEKTITISNSGNLSEAEVERMIKEAQENAANDEAKKKNIELKNKAENYINIIETSLLQAGDKISAEQKEQSQKMIDEIKELVKNENYEALEQKMAELEQAMAAAAEFANKHNDSDSNNNSSEQNN |
| 641 | sp|B1HUD0|DNAJ\_LYSSC | MEKRDYYEVLGLTKSATKDEIKKAYRKLSKQYHPDLNKEPGADEKFKEIAEAYEVLSDDQKKARYDQFGHEDPNAGFGGGFGGGGFGGFEDIFSSFFGGGGRRQDPNAPRKGDDLQYRMNIKFEEAIFGKETEIEIPKDETCETCHGSGAKPGTQPETCSTCNGAGQINQAVDTPFGRMMNRRSCTTCHGTGKIIKEKCSTCRGEGKVQKRKKIKVSIPAGVDDGQQIRVSGQGEPGINGGPAGDLYIMFRVQGHNDFERDGDDIYFELKLTFPQAALGDEIEVPTVHGKVKLRIPAGTQSGAQFRLKDKGVKNVHGYGMGNQYVTVKVMTPEKLTEKQKQLLREFAEISGDIPEEQGSSLFDKIKKKFQGE |
| 642 | sp|C5BQ32|DNAJ\_TERTT | MAKRDYYEVLGVARDVSEQDLKKAYRKVAMKFHPDRNPDDASAEEKFKEASEAYEVLSDKQKRAAYDQFGHAGVEGQGGMGGGAEGFGSFSDIFGDVFGDIFGGAGGGRGRGGPSRGADLRYTLDLSLEDAVRGTSVKIKVPTLVSCTNCGGSGAKPGTTATTCNTCGGHGQVRMQQGFFSVQQTCPTCRGQGKTISDPCNKCHGHGRVEETKTLSVKVPAGVDTGDRIRLAGEGEAGADGGPSGDLYVQVHVKDHEFFQREGRNLYCEVPISIFDACLGGDLEVPTLDGRVKLKVPAETQTGKLFRLRGKGVTPIRGGAAGDLLCRVIVETPVNLSNKQKELLEQLKDTFKGTQHSPKQQSWFEGMKNFFGDMKM |
| 643 | sp|Q9HRY3|DNAJ\_HALSA | MSEDFYDVLGVSRDATEDEIMQAYRDQVSEYHPDVSDDPDAEEKFKKIQKAKDVLTDEETRQQYDQLGHERFEEAEKRGATGNGGGGAGGMGGAGGPFGGGMGGGAGGGMGDIFEQFFGGAGGGGGRGRSGPEQGRDLRTDLTVTLSEAYRGVSKQVTVRRPESCADCGGSGYPEDADVRTCPQCDGQGVVTQVRQTPLGRVQQRQECSRCGGEGELHSETCSTCGGQGQTRERATLTVDIPEGIRTGQTLRMDGEGAPGEPGAPNGDLLVDVTVEEHPDFERDGDDLHHRHAVSFPQAVFGAEIEVPTLDGAATFDLDAGTQSGETFRLKGKGMPRLRRRGNGDLYVTVQVVTPESLSDEQRDALEQFAEAGGEEIDVEQGFFEKLKNSF |
| 644 | sp|F4JQ95|DGK7\_ARATH | MEETPRSVGEASTTNFVAARPSAKTDDAVTMRGCGFANLALVGIDKEELRGRLAMPEYLRIAMRDCIKRKDSTEISDHLLLPGGAAADMAPHAPMVVFINPKSGGRHGPVLKERLQQLMTEEQVFDLTEVKPHEFVRYGLGCLDTLAAKGDECARECREKIRIMVAGGDGTVGWVLGCLGELHKDGKSHIPPVGVIPLGTGNDLSRSFSWGGSFPFAWRSAMKRTLHRATLGSIARLDSWKIVVSMPSGEVVDPPYSLKPTIEETALDQALDADGDVPPKAKSYEGVFYNYFSIGMDAQVAYGFHHLRNEKPYLAQGPVTNKIIYSSYSCTQGWFCTPCVNNPALRGLRNIMKIHIKKANCSEWEEIHVPKSVRSIVVLNLYNYGSGRHPWGNLRPKYLEKRGFVEAHCDDGLIEIFGLKQGWHASFVMAEIISAKHIAQAAAIRFELRGGDWKNAFLQMDGEPWKQPMKSDYSTFVEIKKVPFQSLMINGE |
| 645 | sp|A9M296|DNAK\_NEIM0 | MAKVIGIDLGTTNSCLAISENGQTKVIENAEGARTTPSVIAYLDGGEILVGAPAKRQAVTNAKNTIYAAKRLIGHKFEDKEVQRDIESMPFEIIKANNGDAWVKAQGKELSPPQISAEVLRKMKEAAEAYLGEKVTEAVITVPAYFNDSQRQATKDAGRIAGLDVKRIINEPTAAALAFGMDKGDNKDRKVAVYDLGGGTFDISIIEIANLDGDKQFEVLATNGDTFLGGEDFDQRLIDYIIDEFKKEQGIDLKQDVMALQRLKEAAEKAKIELSSGQQTEINLPYITMDATGPKHLAMKITRAKFESLVEDLIARSIEPCRTALKDAGLSTGDIDDVILVGGQSRMPKVQEAVKAFFGKEPRKDVNPDEAVAVGAAIQGEVLSGGRSDVLLLDVTPLSLGIETMGGVMTKLIQKNTTIPTKASQVFSTAEDNQSAVTIHVLQGERERASANKSLGQFNLGDIAPAPRGMPQIEVTFDIDANGILHVSAKDKGTGKAANITIQGSSGLSEEEIERMVKDAEANAEEDKKLTELVASRNQAEALIHSVKKSLADYGDKLDAAEKEKIEAALKEAEEAVKGDDKTAIDAKAEALGTASQKLGEMVYAQAQAEAQAGESEQANASAKKDDDVVDADFEEVKDDKK |
| 646 | sp|A7ZEB5|DNAK\_CAMC1 | MSKVIGIDLGTTNSCVSVFERGESKVIPNKEGKNTTPSVVAFTDKGEILVGDVAKRQAVTNPEKTIYSIKRIMGLMSNEKNAEEAKARLPYHVVDRNGACAVEIAGKVYTPQEISAKILIKLKEDAEAYLGESVTDAVITVPAYFNDSQRKATKEAGTIAGLNVLRIINEPTAAALAYGLDKKEAEKILVYDLGGGTFDVTVLETGDNIVEVLATGGNAFLGGDDFDNKIIDWLVSEFKNETGIDLKGDIMALQRLKEAAENAKKELSSAQETEINLPFITADATGPKHLVKKLTRAKFEGMIDSLVGETITKINEVIKDAGLSKSDIKEVVMVGGSTRVPLVQEEVKKAFGKELNKSVNPDEVVAIGAAIQGAVIKGDVKDVLLLDVTPLSLGIETLGGVMTKIIEKGTTIPTKKSQVFSTAEDNQNAVTIMVLQGEREFARDNKSLGNFNLEGIPAAPRGVPQIEVEFDIDANGILTVSAKDKATGKAQNITISGSSGLSEDEINSMVKDAELHKEEDKKRKDAVEARNQADALVHQTEKSMSELGEKVPAEDRSNIEAALNDLKEVLKDENSSKEQIDAKVEALSKASHKLAEAMYKKDENAGANGGNKKDDDVIDAEVE |
| 647 | sp|Q98DD2|DNAJ\_RHILO | MKADFYETLGVQKGADEKELKSAFRKLAMQFHPDRNPGDHSCEHKFKEINEAYETLKDPQKRAAYDRFGHAAFEQGGMNGGAQGFGAGGFADIFEDIFGDMMGGRQRRSSGGRERGADLRYNMEISLEEAFAGKTAQIRVPASISCTECSGSGAKPGTQPVTCSMCHGHGKVRATQGFFSIERTCPQCQGRGQTIKDPCPKCAGQGRVTEERSLSVNIPAGIEDGTRIRLANEGEAGLRGGPSGDLYIFLAVKPHEFFQRDGADLYCKVPISMTTAALGGSFEVTTLDGTQTKVKVPEGTQNGRQFRLKGKGMPVLRQPNVGDLYIQTAVETPQNLSRRQRELLEEFEQLSSQDNSPQSSGFFARMKDFFESFGER |
| 648 | sp|B8D8V3|DNAJ\_BUCA5 | MAKKDYYQILGIPKSAEEREIKKAYKKLAMKYHPDRNQGDKTAEGKFKEIKEAYEILINEEKRSAYDQYGHAAFENGQSNSTYSTFTNSADFSDIFGDVFGDIFGGNRTQRAKKGADLCYNMEITLEEAVKGIKKEIQIPTLQKCKTCYGSGTRTGTKPRSCSTCHGKGQIHIRKGFFTVQQSCPTCHGKGTIITDPCNLCHGQGRVETYKILSVKIPPGLDTNDRIRLNNEGEAGANGAQSGDLYVQITVKKHPIFEREGNNLYCEVPINFTMAALGGEIEVPTLDGRVKLKIPYETQSGKLFRIRGRGVKSVQNRNQGDLLCRVVVETPVNLNEQQKNLLHELGNSFHGFRGEKNSPRSKRFFDGVKRFFDDLTR |
| 649 | sp|C0Q4F3|DNAK\_SALPC | MGKIIGIDLGTTNSCVAIMDGTQARVLENAEGDRTTPSIIAYTQDGETLVGQPAKRQAVTNPQNTLFAIKRLIGRRFQDEEVQRDVSIMPYKIIGADNGDAWLDVKGQKMAPPQISAEVLKKMKKTAEDYLGEPVTEAVITVPAYFNDAQRQATKDAGRIAGLEVKRIINEPTAAALAYGLDKEVGNRTIAVYDLGGGTFDISIIEIDEVDGEKTFEVLATNGDTHLGGEDFDTRLINYLVDEFKKDQGIDLRNDPLAMQRLKEAAEKAKIELSSAQQTDVNLPYITADATGPKHMNIKVTRAKLESLVEDLVNRSIEPLKVALQDAGLSVSDINDVILVGGQTRMPMVQKKVAEFFGKEPRKDVNPDEAVAIGAAVQGGVLTGDVKDVLLLDVTPLSLGIETMGGVMTPLITKNTTIPTKHSQVFSTAEDNQSAVTIHVLQGERKRASDNKSLGQFNLDGINPAPRGMPQIEVTFDIDADGILHVSAKDKNSGKEQKITIKASSGLNEEEIQKMVRDAEANAESDRKFEELVQTRNQGDHLLHSTRKQVEEAGDKLPADDKTAIESALNALETALKGEDKAAIEAKMQELAQVSQKLMEIAQQQHAQQQAGSADASANNAKDDDVVDAEFEEVKDKK |
| 650 | sp|B9KH92|DNAJ\_ANAMF | MSGNDYYEILEVSRNASAEEIKKSYRKMVFKYHPDKNPGDKKAEEKFKKISEAYEVLSNPEKRAAYDRYGHSTFTSGGASGFDFTSGFSTDFSDIFQDFFGGGFGKSQRASSREHLRGSDLRYDVEVSLEDAFKGIKVPISYVTNVKCSSCSGIGSEGAVNSVKCGNCNGAGSVRTRKGFLTIEEVCNVCNGEGEVIKNKCRRCGGSGRVRNEVSLLVTVPKGIETGNKVRVNGKGEAGFRGAQEGDLYVYIRVKEHKFFTRRSSDLHCSVPIKMTIAALGGEIEMPSIDGSWTKLKIPEGTQSGDQIRMRGKGMPEVNSKDRRGDMYVHVTVETPVKLTKQQVDLLKKFEEESSANCSPKYQGFFQKIKDIWRDISSG |
| 651 | sp|B5RF09|DNAJ\_SALG2 | MAKRDYYEILGVSKTAEEREIKKAYKRLAMKYHPDRNQGDKEAEAKFKEIKEAYEVLTDAQKRAAYDQYGHAAFEQGGMGGGFGGGFNGGADFSDIFGDVFGDIFGGGRGRQRAARGADLRYNMDLTLEEAVRGVTKEIRIPTLEECDVCHGSGAKAGTQPQTCPTCHGSGQVQMRQGFFAVQQTCPHCQGRGTLIKDPCHKCHGHGRVEKSKTLSVKIPAGVDTGDRIRLAGEGEAGEHGAPAGDLYVQVQVKQHPIFEREGNNLYCEVPINFAMAALGGEIEVPTLDGRVMLKVPSETQTGKLFRMRGKGVKSVRGGAQGDLLCRVVVETPVGLSEKQKQLLKDLQESFGGPTGEKNSPRSKSFFDGVKKFFDDLTR |
| 652 | sp|Q8K9Y9|DNAJ\_BUCAP | MAKKDYYQILGIPKSAEEREIKKAYKRLAMKYHPDRNQGDKNAENKFKEIKEAYEILINEEKRTAYDQYGHAAFENGYNQNNTYSTFTSSTDFGDIFGDVFGDIFGGSRNQRVKKGADLCYNMEISLEEAVKGTTKEIRIPTFQKCKTCYGMGTSTGTKPNGCSTCHGKGQIHIRKGFFTVQQSCPTCNGIGTVIKNPCRMCRGQGRIKTNKTLSVKIPPGIDTNDKIRLSKEGEAGTNGAQPGDLYVQMKVNKHPIFEREENNLYCEVPINFTMAALGGEIEVPTLDGRVNLKIPSETQSGKLFRIRGKGVKSVQSRSRGDLLCRVVVETPVNLNEKQKYLLSELGNSFNGFRGDKNSPRSKRFFDGVKRFFDDLTK |
| 653 | sp|Q1IWL4|DNAK\_DEIGD | MPKAVGIDLGTTNSVIATMEGGRPEVIVNAEGARTTPSVVAYKGDERLVGQIARRQAALNPKATLFEVKRFIGRRWDEVKEEAARMPFTVKEGPGGSVRIEVNGKDLAPEQVSAEVLRKLVADASAKLGEKITDAVITVPAYFDNSQREATKQAGEIAGLNVLRVINEPTAAALAYGLERKGNETVLVFDLGGGTFDVTILELGEGVFEVRSTAGDTHLGGADFDQRIVNWLAEEFRKEHNFDLRKDPQALQRLIEAAERAKIELSNASETTISLPFITFDPETRTPLHLERTLSRAKFEELTADLLRRVRQPVEQALADAKLSASDIDEVILVGGSTRIPAVKRIVKEITGKEPNESVNPDEAVALGAAVQAGIIQGDANLGDIVLVDVTPLTLGVEVKGGMVAPMIPRNTTIPAKKTEIYTTAENNQPGVEIVVLQGERPMAADNKSLGRFKLEGIPPMPAGRPQIEVTFDIDANGILHVTAKEKTSGKEASIRIENTTTLDKSDVERMVKEAEQNAEADRKRRERVEKRNNLDSLRVQALGQLEENQSAPQDAKDRLKAAADEAEEAVRSDDDSRIERAQKQLEEAMRSFMTAAQSGSQNQAGQGAQTQTGRQEDDVIDADFKPAE |
| 654 | sp|A4IR31|DNAK\_GEOTN | MSKIIGIDLGTTNSCVAVLEGGEAKVIPNPEGSRTTPSVVAFKNGERLVGEVAKRQAITNPNTIISIKRHMGTDYKVEIEGKQYTPQEISAIILQYLKSYAEDYLGEPVTRAVITVPAYFNDAQRQATKDAGRIAGLEVERIINEPTAAALAYGLDKGEDQTILVYDLGGGTFDVSILELGDGVFEVKATAGDNHLGGDDFDQVIIDYLVSQFKQENGIDLSKDKMALQRLKDAAEKAKKELSGVTQTQISLPFISANENGPLHLETTLTRAKFEELSAHLVERTMGPVRQALQDAGLTSADIDKVILVGGSTRIPAVQEAIKRELGKEPHKGVNPDEVVAIGAAIQGGVIAGEVKDIVLLDVTPLSLGIETMGGVFTKLIERNTTIPTSKSQVFTTAADNQTTVDIHVLQGERPMAADNKTLGRFQLTDIPPAPRGVPQIEVTFDIDANGIVHVRAKDLGTNKEQSITIKSSSGLSEEEIQRMIKEAEENAEADRKRKEAADLRNEADQLIFTTEKTVKELEGKVSADEIKKAQEAKDALKAALEKNDLDDIRKKKDALQEAVQQLSIKLYEQAAQQAQQAQSGAADKKDNVVDAEFEEVNDDK |
| 655 | sp|B7KSZ5|DNAJ\_METC4 | MSKRDYYEVLGVAKTASESELKVAFRKLAMVHHPDRNPGDKEAEIKFKEVNEAYQCLSDGQKRAAYDRFGHAAFSQGGAGGPGFGNEFGDFMSDIFENFFGDGRAAPGGGAGRGRGGAPGRERGSDLRYNLEISLEEAFAGKTETIRIPTSIACETCSGTGAKAGSKPRTCSTCGGYGRVRAAQGFFAIERTCPNCHGRGEVVDDPCTACSGAGRVNRERTLSINVPAGVDDGLRIRLAGEGESGMRGGTAGDLYVFLSIKPHPFFQRDGADLFCRVPISMVTAALSGEITVPVIDGSQTQVRIPAGTQTGKQFRIKSKGMPVLRSREVGDLYIQVSVETPQNLTKRQRELLQEFDQSASDENHPESAGFFSKVRDFFVSGATRA |
| 656 | sp|P81341|DNAK\_CLOPA | SKVIGIDLGTTNSXVAVMEG |
| 657 | sp|A7NS65|DNAJ\_ROSCS | MAVKRDYYEVLGVQRNASQDEIKKAFRRLARQYHPDVNKAPDAEAKFKEINEAYEVLSDPEKRSMYDRFGHAGPTAAPGFDPFASADPFSSIFETFFGGTMRGTQRGPQRGADLRYTLSISFEEAIFGVEKTIEYRRMETCPACRGSGAEPGTEPVRCPKCGGLGEIRQRAPLFNMVTVTTCDMCRGEGTVIAIPCRECRGEGRIRQTRKITVRVPPGVDSSAQIRISGEGDAGPRGGPYGNLYVVIDVQPHPFFIREGNDIILELPLNVAQAALGTEVDVPTIEGTERLHIPPGVQNGAVFRIRGKGAPFLRSSGRGDQIVVVRVVVPTNLNDHQRRLFEELARSLENEPIGNQRDEGFFGRIKNALGL |
| 658 | sp|Q326K6|DNAJ\_SHIBS | MAKQDYYEILGVSKTAEEREIKKAYKRLAMKYHPDRNQGDKEAEAKFKEIKEAYEVLTDSQKRAAYDQYGHAAFEQGGMGGGGFGGGADFSDIFGDVFGDIFGGGRGRQRAARGADLRYNMELTLEEAVRGVTKEIRIPTLEECDVCHGSGAKPGTQPQTCPTCHGSGQVQMRQGFFAVQQTCPHCQGRGTLIKDPCNKCHGHGRVERSKTLSVKIPAGVDTGDRIRLAGEGEAGQHGAPAGDLYVQVQVKQHPIFEREGNNLYCEVPINFAMAALGGEIEVPTLDGRVKLKVPGETQTGKLFRMRGKGVKSVRGGAQGDLLCRVVVETPVGLNEKQKQLLQELQESFGGPTGEHNSPRSKSFFDGVKKFFDDLTR |
| 659 | sp|Q182E7|DNAJ\_CLOD6 | MSTKRDYYEVLGISKGAEAQEIKKAYRKLAMKYHPDRNPGDKEAEEKFKEINEAYEVLSDDTKRKTYDQFGHDGLNGQGGFGGQGGFGGQGFGGFEDMFGDIFGDMFGGSFGGGRARRRGPQRGADIRQSVTISFEEAAFGKKMSIKVNRSEECEECNGTGAKPGTSKKTCSTCNGTGQVRTVQRTPFGNIASSRPCSACNGTGEVIESPCSKCHGTGNTRKVKTIEVDIPAGIDDGQMIKLSGQGEVGEKGAPRGDLYIVVNVKSHPLFTRDGNDIYFEMPITFVQATLGDEIEVPTLDGKVKYSVPEGTQTGTVFRLKEKGIPRIRGNSRGDQYVKVVVEIPKKLNDKQKELLREFAKECGSNVHEKKKTFGQKIEDMFKKK |
| 660 | sp|A7ZVV8|DNAJ\_ECOHS | MAKQDYYEILGVSKTAEEREIKKAYKRLAMKYHPDRNQGDKEAEAKFKEIKEAYEVLTDSQKRAAYDQYGHAAFEQGGMGGGGFGGGADFSDIFGDVFGDIFGGGRGRQRAARGADLRYNMELTLEEAVRGVTKEIRIPTLEECDVCHGSGAKPGTQPQTCPTCHGSGQVQMRQGFFAVQQTCPHCQGRGTLIKDPCNKCHGHGRVERSKTLSVKIPAGVDTGDRIRLAGEGEAGEHGAPAGDLYVQVQVKQHPIFEREGNNLYCEVPINFAMAALGGEIEVPTLDGRVKLKVPGETQTGKLFRMRGKGVKSVRGGAQGDLLCRVVVETPVGLNEKQKQLLQELQESFGGPTGEHNSPRSKSFFDGVKKFFDDLTR |
| 661 | sp|Q9FRL8|DHAR2\_ARATH | MALDICVKVAVGAPDVLGDCPFSQRVLLTLEEKKLPYKTHLINVSDKPQWFLDISPEGKVPVVKLDGKWVADSDVIVGLLEEKYPEPSLKTPPEFASVGSKIFGAFVTFLKSKDANDGSEKALVDELEALENHLKTHSGPFVAGEKITAVDLSLAPKLYHLEVALGHYKNWSVPESLTSVRNYAKALFSRESFENTKAKKEIVVAGWESKVNA |
| 662 | sp|Q5XAD6|DNAK\_STRP6 | MSKIIGIDLGTTNSAVAVLEGTESKIIANPEGNRTTPSVVSFKNGEIIVGDAAKRQAVTNPETVISIKSKMGTSEKVSANGKEYTPQEISAMILQYLKGYAEDYLGEKVEKAVITVPAYFNDAQRQATKDAGKIAGLEVERIVNEPTAAALAYGMDKTDKDEKILVFDLGGGTFDVSILELGDGVFDVLATAGDNKLGGDDFDQKIIDFLVAEFKKENGIDLSQDKMALQRLKDAAEKAKKDLSGVTQTQISLPFITAGSAGPLHLEMSLSRAKFDDLTRDLVERTKTPVRQALSDAGLSLSEIDEVILVGGSTRIPAVVEAVKAETGKEPNKSVNPDEVVAMGAAIQGGVITGDVKDVVLLDVTPLSLGIETMGGVFTKLIDRNTTIPTSKSQVFSTAADNQPAVDIHVLQGERPMAADNKTLGRFQLTDIPAAPRGIPQIEVTFDIDKNGIVSVKAKDLGTQKEQHIVIKSNDGLSEEEIDRMMKDAEANAEADAKRKEEVDLKNEVDQAIFATEKTIKETEGKGFDTERDAAQSALDELKAAQESGNLDDMKAKLEALNEKAQALAVKMYEQAAAAQQAAQGAEGAQANDSANNDDVVDGEFTEK |
| 663 | sp|A4VPQ5|DNAK\_PSEU5 | MGKIIGIDLGTTNSCVSIMENGNVKVIENAEGGRTTPSIIAYTNDGETLVGQSAKRQAVTNPQNTLYAVKRLIGRRFEEDVVQKDIKMVPYTIVKADNGDAWVEVKGQKMAPPQISAEVLKKMKKTAEDYLGEPVTEAVITVPAYFNDSQRQATKDAGRIAGLDVKRIINEPTAAALAYGMDKAKGDHTVIVYDLGGGTFDVSVIEIAEVDGEHQFEVLATNGDTFLGGEDFDIRLIDYLVDEFKKETGMNLKGDPLAMQRLKEAAEKAKIELSSSQQTDVNLPYITADASGPKHLNVKISRAKLESLVEDLVERTIEPCRIALKDAGIDVSKINDVILVGGQTRMPLVQQKVAEFFGKEARKDVNPDEAVAMGAAIQGAVLAGDVKDVLLLDVSPLTLGIETLGGVMTPLIEKNTTIPTKKSQVFSTADDNQSAVTIHVLQGERKQAAQNKSLGRFDLAEIPPAPRGMPQIEVTFDIDANGILHVSAKDKATGKQQSIVIKANSGLSEEEIEQMVRDAEANAEEDRKFEELATARNQGDQLVHATRKMLTEAGDKASDDDKAAIEKALSELELAIKGDDKAAIEAKIAAVSQASTPVAQKMYAEQAQAGEGQPAGEQAKPGDDVVDAEFEEVKDNK |
| 664 | sp|Q4L6T0|DNAK\_STAHJ | MSKVIGIDLGTTNSCVAVLEGDEPKVIQNPEGARTTPSVVAFKNGETQVGEVAKRQAITNPNTVQSIKRHMGTDYKVDIEGKSYTPQEISAMVLQNLKNTAESYLGDKVDKAVITVPAYFNDAERQATKDAGKIAGLEVERIINEPTAAALAYGLDKTDQDQKVLVFDLGGGTFDVSILELGDGVFEVLSTAGDNKLGGDDFDQVIIDYLVSEFKKENGVDLSQDKMALQRLKDAAEKAKKDLSGVSQTQISLPFISAGESGPLHLEISLTRSKFEELADSLIRRTMEPTRQALKDAGLSTSEIDEVILVGGSTRIPAVQEAVKKEIGKDPHKGVNPDEVVAMGAAIQGGVITGDVKDVVLLDVTPLSLGIEIMGGRMNTLIERNTTIPTSKSQVYSTAADNQPAVDIHVLQGERPMASDNKTLGRFQLTDIPPAPRGVPQIEVTFDIDKNGIVNVTAKDLGTNKEQNITIQSSSALSDEEIDRMVKDAEENAEADKKRREEVDLRNEADSLVFQVEKTITDLGDNISEEDKSNAESKKDALKSALEGQDIEDIKAKKEELEKVIQDLSAKVYQQAQQAQQQAQDGAQQTQNDSNVEDAEFKEVNDDEDKK |
| 665 | sp|P93835|DRE1B\_ARATH | MNSFSAFSEMFGSDYEPQGGDYCPTLATSCPKKPAGRKKFRETRHPIYRGVRQRNSGKWVSEVREPNKKTRIWLGTFQTAEMAARAHDVAALALRGRSACLNFADSAWRLRIPESTCAKDIQKAAAEAALAFQDETCDTTTTNHGLDMEETMVEAIYTPEQSEGAFYMDEETMFGMPTLLDNMAEGMLLPPPSVQWNHNYDGEGDGDVSLWSY |
| 666 | sp|Q8N9S3|AHSA2\_MOUSE | MAKWGQGDPRWIVEEREDGTNVNNWHWTERDATIWSKGKLRELLVGIAMENEAGRCEISELKQVEGEASCNSRKGKLIFFYEWNIKLAWKGTVKESGAKHKGLIEIPSLSEENEINDTEVNVSKKKGDGEILKDLMRTTGTAKVREALGEYLKALKTEFTTGMILPTKAVATQELTLQRKLNENKLQASPVALGVRIPTVALHLTELFDTTVEQLYSIFTVKELVQKFSKSPAVLEAERGGKFQMFDGNISGEYVELVTNRKIIMKWRCRNWPEEHYATVELNFVPAPGQTELQLDCKGVPVCKEENMKFCWQKQHFEEIKGLLELTAQNA |
| 667 | sp|P0AAW9|ACRZ\_ECOLI | MLELLKSLVFAVIMVPVVMAIILGLIYGLGEVFNIFSGVGKKDQPGQNH |
| 668 | sp|P32449|AROG\_YEAST | MSESPMFAANGMPKVNQGAEEDVRILGYDPLASPALLQVQIPATPTSLETAKRGRREAIDIITGKDDRVLVIVGPCSIHDLEAAQEYALRLKKLSDELKGDLSIIMRAYLEKPRTTVGWKGLINDPDVNNTFNINKGLQSARQLFVNLTNIGLPIGSEMLDTISPQYLADLVSFGAIGARTTESQLHRELASGLSFPVGFKNGTDGTLNVAVDACQAAAHSHHFMGVTKHGVAAITTTKGNEHCFVILRGGKKGTNYDAKSVAEAKAQLPAGSNGLMIDYSHGNSNKDFRNQPKVNDVVCEQIANGENAITGVMIESNINEGNQGIPAEGKAGLKYGVSITDACIGWETTEDVLRKLAAAVRQRREVNKK |
| 669 | sp|Q75KV9|BH148\_ORYSJ | MQMESYYGAFHADEAAFFFPHHVPASPELPFGLIASPEPEPEPEQAAAEARQSAFQEYGGAVHAGAPAAAGAVTTGGTNIHRRVMDVLGRMGGGGGGGEKGEGEEMEEEEEVPQRRRRGQGADVESSRGFRHMMRERQRREKLSQSYADLYAMVSSRSKGDKNSIVQSAAIYIHELKVARDQLQRRNEELKAQIMGHDEQQPCVTVQFEVDEPSSSIDSMIAALRRLKGMSVKARGIRSSMSGNRLWTEMNVETTIAACEVEKAVEEALKEVERNQPDSDAPFPGSKGWTQTSHVQNVF |
| 670 | sp|P9WPE5|CH10\_MYCTU | MAKVNIKPLEDKILVQANEAETTTASGLVIPDTAKEKPQEGTVVAVGPGRWDEDGEKRIPLDVAEGDTVIYSKYGGTEIKYNGEEYLILSARDVLAVVSK |
| 671 | sp|P60532|CH10\_MYCAV | MAKVNIKPLEDKILVQANEAETTTASGLVIPDTAKEKPQEGTVVAVGPGRWDDDGAKRIPLDVSEGDTVIYSKYGGTEIKYNGEEYLILSARDVLAVVSK |
| 672 | sp|Q74IT7|DNAJ\_LACJO | MAQRDYYDVLGVDKNASESEISKAYRKLAKKYHPDLNHEPGAEEKYKEVNEAYEVLHDKQKRAQYDQFGQAGVNGQGGFGGQGFGGFGGQGGYSSQGFGDFGDIFGDIFGSAFGGGRSRVDPTAPQKGQDLDYTMTIDFMDAIKGKKTDITYTRSEVCPTCDGSGAEKGTHPITCDKCHGSGVMTVTRQTPLGVIQQQTTCDKCGGRGTIIEHPCQTCHGQGTVDKKQTLQVTVPAGIDNGQQIRLSGQGEAGKNGGPYGDLYIVFRVKPSKEFRRNGTTIYTEAPISFAQAALGDKIRVNTVHGPVDLTIPAGTQPNTNFKLRGQGVPKINGTGNGDQEVTVKVVIPKKINDKQKEALVDYVKAGGGNISPQEKNFFERLKDKLNGE |
| 673 | sp|B0BWH1|DNAK\_RICRO | MGKVIGIDLGTTNSCVAVMEGKEPKVIENAEGERTTPSIIAFANGEKLVGQSAKRQAVTNPRNTIYAVKRLIGRNFIDPMVRKDQGIVPYNIVKADNGDAWVEADNNKYSPSQISAFILQKMKETAENYLGDKVTQAVITVPAYFNDAQRQATKDAGKIAGLEVLRIINEPTAAALAYGFEKSASKTIAVYDLGGGTFDVSILEISDGVFEVKSTNGDTFLGGEDFDTRILNHLIDVFKKENGIDLSKDPLALQRLKEAAEKAKKELSSAVTTDINLPYITADSSGPKHLNIKFTRAELEKLVDDLIEKTIEPCRKALQDAGFKASDIQEVVLVGGMTRMPKVQEAVKKFFGREPHKGVNPDEVVALGAAIQGGVLNKEVTDILLLDVTPLSLGIETLGGVFTRLIDRNTTIPTKKSQVFSTADDNQHAVTIRVFQGEREMAKDNKLLGQFNLEGIPPAPRGLPQIEVTFDIDANGIVHVSAKDKASGKEQKVTIQASGGLSDAEIEQMVKDAEQNADEDKKRKELIEAKNAADSLVYSTEKTLTEYGDKLSSDDKGAVEEALAALKAVLESEDTALIKEKTASLTAASMKIGEAMYKAQSESQPAAENATNDEKIVDADFQDVEKK |
| 674 | sp|B1ZGR1|DNAK\_METPB | MGKVIGIDLGTTNSCVAVMEGTQPRVIENAEGARTTPSIVAFTDDGERLVGQPAKRQAVTNPERTFFAIKRLIGRTYDDPLTQKDKGLVPYKIARGDNGDAWVEADGKKYSPSQISAFTLQKMKETAESHLGQPVTQAVITVPAYFNDAQRQATKDAGKIAGLEVLRIINEPTAAALAYGLDKKKSGTIAVYDLGGGTFDVSILEIGDGVFEVKSTNGDTFLGGEDFDNRVVEYLTAEFKKEQGIDLTKDKLALQRLKEAAEKAKIELSSATQTEINLPYITADASGPKHLALKLSRAKFESLVDDLVQRTIEPCRKALKDAGVSASEIDEVVLVGGQTRMPKVQEVVKAFFGKEPHKGVNPDEVVAIGAAVQAGVLQGDVKDVLLLDVTPLSLGIETLGGVFTRLIDRNTTIPTKKSQVFSTAEDNQNAVTIRVFQGEREMAADNKLLGQFDLVGIPPAPRGMPQIEVTFDIDANGIVNVTAKDKATNKEHQIRIQASGGLSDADIEKMVKDAEANAEADKKRRELVEVKNQGESLIHATEKSVSEYGDKVSAADKGAIESAIAALRTALEGDDAEGIKAKTNDLMQASMKLGEAMYAASQAEGAPGAEGAAASGEKKDDVIDADFQEVDENERKKRA |
| 675 | sp|B1MIX5|DNAK\_MYCA9 | MARAVGIDLGTTNSVVAVLEGGDPVVVANSEGSRTTPSVVAFARNGEVLVGQPAKNQAVTNVDRTIRSVKRHMGTDWTVEIDGKNYTPQEISARTLQKLKRDAEAYLGEDITDAVITVPAYFNDAQRQATKEAGQIAGLNVLRIVNEPTAAALAYGLDKGEKEQTILVFDLGGGTFDVSLLEIGDGVVEVRATSGDNHLGGDDWDERIVTWLVDKFKASAGIDLTKDKMAMQRLREAAEKAKIELSSSQSTSINLPYITVDADKNPLFLDEQLTRAEFQKITQDLLDRTRKPFQSVIKDAGVSVSDIDHVVLVGGSTRMPAVTDLVKELTGGKEPNKGVNPDEVVAVGAALQAGVLKGEVKDVLLLDVTPLSLGIETKGGVMTKLIERNTTIPTKRSETFTTADDNQPSVQIQVYQGEREIASHNKLLGSFELTGIPPAPRGVPQIEVTFDIDANGIVHVTAKDKGTGKENTIKIQEGSGLSKEEIDRMIKDAEAHADEDKKRREEADVRNQAESLVYQTEKFVKEQREPAEGSEKVVSDETLSKVDEAISEAKKALEGTDIGAIKAAMEKLGEQSQALGQAIYEAAAAKAQADGAEGGAGSADSDVVDAEVVDEEKDSK |
| 676 | sp|B6J7U7|DNAK\_COXB1 | MAEIIGIDLGTTNSCVAVMEGGKVRVIENAEGSRTTPSIVAYTKDGEVLVGASAKRQAVTNADRTLYAIKRLIGRRFDDNVVQKDIKMVPYKIIKADNGDAWVEVKDKEGKSQKLAPPQISAQVLIKMKKTAEDYLGHEVKDAVITVPAYFNDSQRQATKDAGKIAGLNVKRIINEPTAAALAYGMDKKKGDRKIAVYDLGGGTFDISIIEIAEVDGEHQFEVLATNGDTFLGGEDFDLRLIDYLAGEFKKDEGVDLHNDPLALQRLKEAAEKAKIELSSSQQTDVNLPYITADASGPKHLNIRLTRAKLESLVEDLVERTIEPCKVAIKDAGLKVSEIDDVILVGGQTRMPKVQEAVKNFFGKEARKDVNPDEAVAIGAAIQGAVLSGEVKDVLLLDVTPLSLGIETLGGVMTKLIEKNTTIPTKANQVFSTADDNQTAVTVHVLQGEREMASANKSLGRFDLSDIPPAPRGVPQIEVTFDIDANGILHVSAKDKATGKEQSIVIKASSGLSDEEVEKMVKDAEAHRDSDRKFHELVDARNQADAMIHAAEKSVKDLGSEVSADEKSAIEKAVNELKEAMKGNDKDAIEAKTKALTEHSSKLAERVYAKKGGAAGAPPGGEAEGEPQAQAGGKKEDVVDAEFEEVKDEKKKDEDK |
| 677 | sp|Q1G9R2|DNAK\_LACDA | MSKVIGIDLGTTNSAVAVLEGKEPKIITNPEGARTTPSVVAFKDGEIQVGEVAKRQAITNPNTIVSIKRHMGESDYKVKVGDKAYTPQEISAMILQYIKKFSEDYLGEPVTDAVITVPAYFNDAQRQATKDAGKIAGLNVQRIINEPTASALAYGLDKDEDDETVLVYDLGGGTFDVSVLQLGDGVFQVLSTNGDTHLGGDDFDNKIIDWLVDGFKQENGIDLSKDKMAMQRLKDAAEKAKKDLSGVSSTHISLPFISAGEAGPLHLEVDLTRAKFNELTDDLVQRTKIPFDNALRDAGLSVGDIDKVILNGGSTRIPAVQEAVKQWAGKEPDHSINPDEAVALGAAIQGGVISGDVKDIVLLDVTPLSLGIETKGGVFTKLIDRNTTIPTSKSQIFSTAVDNQPAVDIHVLQGERPMAADNKTLGRFELTDIPAAPRGVPQIQVTFDIDKNGIVNVSAKDLGTGKEQKITIQSASGLSDEEIERMKKEAEEHAEEDAKKKEEVDLRNEVDGLIFQTEKTLKEVDGKLADSDIQPVKDALEDLKKAQKDNNLDEMKEKKDALSKVAQDLAVKLYQQNSQNQQGQGGQAGPTDDGSNGANGDTVDGDFTKVDPDK |
| 678 | sp|P30722|DNAK\_DIALT | MAKVVGIDLGTTNSVVAVMEGGKPTVITNSEGGTTTPSVVAYAKNGDLLVGQIAKRQAVINSENTFYSVKRFIGRPSKEVSDELRQTPYKIEDSEGKIRLKCPNLNKNFAAEEISAQVLRKLVNDANKYLGEKVEKAVITVPAYFNDSQRQATKDAGKIAGLEVLRIINEPTAASLAYGLDKKDNETILVFDLGGGTFDVSILEVGDGVFEVLSTSGDTRLGGDDFDEKIVKWLLNEFEKEEKFSLKGDSQALQRLTEAAEKAKIELSSLSQTEINLPFITANENGAKHIEKTLTGEKFESLCSDLFDRCRIPVENALKDAKLKPNQIDEVVLVGGSTRIPAVKKLVKDILGKEPNETVNPDEVVAIGAAIQAGVLSGEVKDILLLDVTPLSLGVETLGGVTTKIIPRNTTVPTKKSEIFSTAVDNQPNVEIHVLQGEREFARDNKSLGTFRLDGILPAPRGIPQIEVTFDIDANGILSVTAQDKGTSKQQSITISGASTLPKEEVEKMVKEAEQNAAADKEKGENIRVKNEADLYCYQAEKQISELPEALVNENQSLIKESKETVEMLKENIKKEDYDKIKENLKKLQEKLMEIGQKAYAKKEPLKDEDSNKAGSQDDFIDADFTESK |
| 679 | sp|B0U3J7|DNAJ\_XYLFM | MSKRDYYQVLGVPRTASEDDLKKAYRRCAMKYHPDRNPGDAAAEAAFKECKEAYEVLADTKKRKLYDTHGHAAFEHGVGGGNAPDMNDIFGDIFGNIFGGARASRRGADVGYMVELDLEEAVAGVERQIQIPTLVECTHCNGSGSEDGHVETCGTCRGSGQVRIQRGIFAMQQTCPHCGGRGVIIRNPCKVCNGAGRVEDHKTLSVKIPAGVDNGDRIRLSGEGEQGPDGVPPGDLYVEVRVREHPIFQRDGDDLHCEVPVRISQAALGDIVRVATLDGEAEIRIPAETQSGKLFRLRGKGVRSVRSRTEGDLYCRIVVETPVNLTAEQRKLLEQFEMTFAGEDARKHSPKSATFLDGVKSFWDRMTS |
| 680 | sp|P78004|DNAJ\_MYCPN | MAAGKRDYYEVLGVSRSATAQDIKRAFRKLAMQYHPDRHKGEGETVQKQNEEKFKEVNEAYEVLSDTEKRGMYDRFGHEGLNASGFHETGFNPFDIFNSVFGEGFSFDMDGGSPFDFIFSRGKKSRQNRVVLPYDLEIAVGVDISFFEMTNGCTRTIEYTKRVTCSACDGFGAEGGETGMVSCNSCEGNGFILKNQRSIFGTVQSQMLCQSCGGQGKQAKHKCKTCKGSKYKKVPTTKEIQIPAGIYHGDALVDDHGGNEFGGHVGKLVVHVGVLPSKIFKRVDHNVVANVLVDPMIAITGGKIELPTLEGIKEFNLRAGTKSGEQIVIPGGGIKFTKNFRKKAGDLIIIISYARPSEYSAPELRKLKEFIKPNQEVKQYLNALKNEYKS |
| 681 | sp|A5EYG3|DNAK\_DICNV | MGKIIGIDLGTTNSCVAVMDGDSAKVIENSEGTRTTPSIIAFSDGEVLVGQPAKRQAVTNPKNTLYAIKRLIGRRFDEKEVQKDINLVPYNIVKSDNGDAWVEIDGKKMAPPEISARILQKMKKTVEDYLGETITEAVITVPAYFNDSQRQATKDAGRIAGLEVKRIINEPTAAALAYGIDRGAKDAKIAVYDLGGGTFDISIIETIDLDEEGQQFEVLATNGDTFLGGEDFDRRIIDYLVNEFKKEQGIDLTSDSLALQRLKEAAEKAKIELSSSQQTDINLPYITADASGPKHMNLKLTRAKLESLVADLIERSLEPCRIAMKDAGLSNSDITDVILVGGQTRMPKVQEAVKNFFGKEPRKDVNPDEAVAMGAAIQGGVLGGQVKDVLLLDVTPLSLGIETLGGVMTKLIEKNTTIPTKASQIFSTAEDNQSAVTIHILQGERQQASANKSLGRFDLSDIPPAPRGMPQIEVSFDIDANGILNVSAKDKQTGKEQSIIIKASSGLSDEEVARMVKDAEAHAEEDRKFQERIETKNSAESMINGVEKAISELGDEVTSDEKEKTEAAIKALREVMKGEDSDAIKEKTNALMEAASSIMQKAYAKMTEKQQSDDGAGTQNADHKEDDVVDADFEEVKSDKKD |
| 682 | sp|C1CZH9|DNAK\_DEIDV | MAKAVGIDLGTTNSVISVMEGGRPEVIVNAEGGRTTPSVVAYKGDERLVGQIARRQAALNPAATLFEVKRFIGRRWDEVKEEAARSPFKVKEGPGGSVRIEVNGQDLAPEQVSAEVLRKLVSDASAKLGQKITDAVITVPAYFDNSQREATKQAGEIAGLNVLRVINEPTAAALAYGLERKGNETVLVFDLGGGTFDVTILELGDGVFEVKSTAGDTHLGGADFDHRIVDWLAEEFNREHNFDLRKDKQALQRLIEAAEKAKIDLSNASESSISLPFITFDPETRTPMHLERTLSRAKFEELTADLLRRVRKPVEQALADAKLSASDIDEVILVGGSTRIPAVKRIVQDLVGKTPNESVNPDEAVALGAAVQAGIIQGDSALGDIVLVDVTPLTLGVEVKGGMIAPMITRNTTVPAKKTEIYTTAENNQPGVEINVLQGERPMASDNKSLGRFKLEGIPPMRAGQAQIEVTFDIDANGILHVTAKEKTSGKEASIRIENTTTLDKSDVERMVREAEENAAADKLRREKVEKRNNLDSLRVQATQQLEENEGAAQDAKDALKAAADEAEEAVRSEDDARIESAQKRLEEELRTFMTAQQAAGQGQPQGAQAQGTKADDDVIDADFKAAE |
| 683 | sp|Q04Y47|DNAK\_LEPBL | MSKEKIIGIDLGTTNSVVSVMEGGDPVVIQNSEGARTTPSIVAFTAKGENLVGQFAKNQAITNAVNTIRSAKRFIGRRIGECESEMKHVSYKVIRSGNEGVKFETSAGEFTPQEISARVLMKMKQTAEDYLGQKVTKAVITVPAYFNDEQRQATKDAGRIAGLEVERIINEPTAAALAYGFDKKNVNSKIAVYDLGGGTFDISILELADGVFEVKSTNGDTHLGGDDFDMAIMEWMISEFKNQTGIDISADKNTVQRLKEAAEKAKIELSGTMSTQINLPFITADASGPKHLDMTLSRAKFDQLTKSLVDRTRIPCENALRDAGLKASDINEVILVGGSIRIPAVQELVKQIFGKEPNKSVNPDEVVAVGAAIQGGVLAGEVSDVLLLDVTPLSLGIETLGGVMTKLIERNTTIPTKKSQVFSTAADNQSAVSIHVLQGEREMASANRTLGRFDLIGIPPAPRGVPQIEVTFDIDANGIVHVSAKDLGTGKEQKIRIESSSGLSEDEIQKMVKDAEAHAAADKAQREVIEAKNELDTLAYSLEKTVNEAGDKIGASEKQLATDEVKRAREAIESNDKARMESAKASISKIASDIATKVYSQGAPGAEQAAGSTGPDQGQNDQGNSGNNGEKVVDADYTVVDDEKK |
| 684 | sp|Q46XI8|DNAJ\_CUPPJ | MAKRDYYEVLGVGKNASDDEIKKAYRKLAMKYHPDRNPDSKESEEKFKEVKEAYEMLSDAEKKAAYDQYGHAGVDPNMAGGFGGGQGYGGFAEAFGDIFGDIFGQQAGGGRRGGGGPQAYRGADLRYSMEISLEQAAHGHEAQIRVPHWDDCDHCHGNGAEPGSSVETCPTCHGAGQVRVSQGFFSMQQTCPKCHGSGKFIPKPCTKCHGQGKLKSQKTLEVKIPAGIDEGMRIRSSGNGEPGINGGPPGDLYVEVHIKAHPVFERDGDDLHCQMPISFATAALGGDLEVPTLNGKATFPVPEATQSGKTFRLRGKGIKGVRSGYPGDLYVHVNVETPVKLTEAQKDMLRQFDRSVHEGGSRHSPQEQSWLDKVKSFFS |
| 685 | sp|P46139|DGCN\_ECOLI | MMDNDNSLNKRPTFKRALRNISMTSIFITMMLIWLLLSVTSVLTLKQYAQKNLALTAATMTYSLEAAVVFADGPAATETLAALGQQGQFSTAEVRDKQQNILASWHYTRKDPGDTFSNFISHWLFPAPIIQPIRHNGETIGEVRLTARDSSISHFIWFSLAVLTGCILLASGIAITLTRHLHNGLVEALKNITDVVHDVRSNRNFSRRVSEERIAEFHRFALDFNSLLDEMEEWQLRLQAKNAQLLRTALHDPLTGLANRAAFRSGINTLMNNSDARKTSALLFLDGDNFKYINDTWGHATGDRVLIEIAKRLAEFGGLRHKAYRLGGDEFAMVLYDVQSESEVQQICSALTQIFNLPFDLHNGHQTTMTLSIGYAMTIEHASAEKLQELADHNMYQAKHQRAEKLVR |
| 686 | sp|Q3KM17|DNAJ\_CHLTA | MDYYTILGVAKTATPEEIKKAYRKLAVKYHPDKNPGDAEAERRFKEVSEAYEVLGDAQKRESYDRYGKDGPFAGAGGFGGAGMGNMEDALRTFMGAFGGDFGGNGGGFFEGLFGGLGEAFGMRGGSESSRQGASKKVHITLSFEEAAKGVEKELLVSGYKSCDACSGSGANTAKGVKVCDRCKGSGQVVQSRGFFSMASTCPDCSGEGRVITDPCSVCRGQGRIKDKRSVHVNIPAGVDSGMRLKMEGYGDAGQNGAPAGDLYVFIDVEPHPVFERHGDDLVLELPIGFVDAALGIKKEIPTLLKEGTCRLSIPEGIQSGTVLKVRGQGFPNVHGKSRGDLLVRVSVETPQHLSNEQKDLLRQFAATEKAENFPKKRSFLDKIKGFFSDFAV |
| 687 | sp|Q4QJW4|DNAK\_HAEI8 | MGKIIGIDLGTTNSCVAVMDGDKARVIENAEGARTTPSIIAYTDNETLVGQPAKRQAITNPKNTLFAIKRLIGRRFESEEVQRDIKIMPFEITRADNGDAWVNVKGDKLAPPQISAEVLKKMKKTAEDFLGESVTEAVITVPAYFNDAQRQATIDAGKIAGLDVKRIINEPTAAALAFGLGSSKENQVIAVYDLGGGTFDISIIEIDNFDGEQTFEVLATGGNTHLGGEDFDNRVIDYIIDEFKKEQNIDLRNDAMALQRVKEAAEKAKIELSSAQSTEVNLPYITADATGPKHLALNITRAKLEALVEDLVASSIESLKAVLKDADKGVSEIHDIILVGGQTRMPLVQQKVAEFFGKEARKDVNPDEAVAIGAAVQGGVLKGDVKDVLLLDVTPLSLGIETMGGVMTTLIEKNTTIPTKKSQVFSTAEDNQSAVTIHVLQGERKRAADNKSLGQFNLEGINPAPRGMPQIEVTFDIDANGVINVSAKDKNTGKEQQIRIQASSGLSDEEIQQMVRDAEANADADRKFEEVVQARNQADGIAHATRKQIAEAGDALSVADKEKIEAAVAELETAAKGEDKAEIEAKIEAVIKASEPLMQAVQAKAQQAGGEQPQQSSAKDDGVVDAEFEEVKDNK |
| 688 | sp|P55994|DNAK\_HELPY | MGKVIGIDLGTTNSAMAVYEGNEAKIIANKEGKNTTPSIVAFTDKGEILVGESAKRQAVTNPEKTIYSIKRIMGLMFNEDKAKEAEKRLPYKIVDRNGACAIEISGKVYTPQEISAKILMKLKEDAESYLGESVTEAVITVPAYFNDSQRKATKEAGTIAGLNVLRIINEPTSAALAYGLDKKESEKIMVYDLGGGTFDVTVLETGDNVVEVLATGGDAFLGGDDFDNRVIDFLASEFKSETGIEIKNDVMALQRLKEAAENAKKELSSAMETEINLPFITADATGPKHLVKKLTRAKFESLTEDLMKETISKIESVIKDAGLTKNEISEVVMVGGSTRIPKVQERVKAFINKDLNKSVNPDEVVAVGASIQGGVLKGDVKDVLLLDVTPLSLGIETLGGVMTKVIDRGTTIPAKKSQVFSTAEDNQPAVSIMVLQGERELARDNKSLGKFDLQGIAPAPRGVPQIEVTFDIDANGILTVSAQDKNTGKSQEIKISGSSGLSDSEIEKMVKDAELHKEEDAKKKEVIEARNHADSLAHQTQKSLDEHKTNLNENDANEIQNAINALKDCVKNDNATKAELEDKTKLLAQAAQKLGEAMANKNNAEQPKKKDDDVIDAEVE |
| 689 | sp|A4Y9Q2|DNAJ\_SHEPC | MSKRDYYEVLGVGRDASEREIKKAYKRLAMKFHPDRNPGDKAAEASFKEAKEAYEILTDTDKKAAYDQFGHAGVDPNRGGGYGGGQGDFGDIFGDVFGDIFGGGRRGGQRQAARGSDLRYNLELSLEEAVKGLTKELRIPTLATCDLCDGSGAKKGTSASTCTTCHGQGQVQMRQGFFTVQQPCPTCHGRGKIIKDPCTKCHGDGRVEKSKTLSVKIPAGVDTGDRIRLAGEGEAGEFGAPPGDLYVQVSVREHAIFVRDGNNLYCEVPISFSKAALGGEIEVPTLDGKVSLKIPAETQTGRMFRLRGKGVKSVRSHAVGDLLCKVVMETPVNLNDRQKELLREFEATLTGESKKHSPKAEGFFDGVKKFFQDLNS |
| 690 | sp|C3PMM6|DNAJ\_RICAE | MSQNYYQILGVSKTASQADLKKAYLKLAKQYHPDTTDAKDAEKKFKEINAAYDVLKDEQKRAAYDRLGHDAFQNQQSRGGGGNHGGFHPDINDIFGDFFSDFMGGSRRSSRPTSAKVRGSDLKYNLTINLEEAFHGIEKNISFSSAVKCDTCHGSGSEKGETVTTCDACSGVGATRMQQGFFTIEQACHKCQGNGHIIKNPCKKCHGMGRYHKQRNLSVNIPAGVENGTRIRHTGEGEAGIRGGNSGDLYVDITIKPHDIYKVDGANLHCKLPISFVNAALGGEIEVPVIEGGKVNLTIPAGTQNGDQLRLRSKGMSKMRSTIRGDMLTHIHVEVPKNLSKRQRELLEEFKKESINEKENDGSFFNKMKSLWS |
| 691 | sp|Q8FLC5|DNAJ\_ECOL6 | MAKQDYYEILGVSKTAEEREIKKAYKRLAMKYHPDRNQGDKEAEAKFKEIKEAYEVLTDSQKRAAYDQYGHAAFEQGGMGGGGFGGGADFSDIFGDVFGDIFGGGRGRQRAARGADLRYNMELTLEEAVRGVTKEIRIPTLEECDVCHGSGAKPGTQPQTCPTCHGSGQVQMRQGFFAVQQTCPHCQGRGTLIKDPCNKCHGHGRVERSKTLSVKIPAGVDTGDRIRLAGEGEAGEHGAPAGDLYVQVQVKQHPIFEREGNNLYCEVPINFAMAALGGEIEVPTLDGRVKLKVPGETQTGKLFRMRGKGVKSVRGGAQGDLLCRVVVETPVGLNEKQKQLLQELQESFGGPTGEHNSPRSKSFFDGVKKFFDDLTR |
| 692 | sp|C0R3W7|DNAK\_WOLWR | MGRAIGIDLGTTNSCVAIMQGKDTKVIENKEGARTTPSIVALTSSGERLIGAPAKRQATTNASNTFFATKRLIGRQYSDPEMKNLSVPYKVFAAKSGDAWVKTTDNKEYSPSQIGAFILQNMKEAAEAYLGEEVKDAVITVPAYFNDSQRQATKDAGKIAGLNVLRIVNEPTAAALAYGLDKKHGHTIVVYDLGGGTFDVSILEIGDGVFEVKATNGDTHLGGEDFDNGVVSYLLDEFKKSNGIDLKNDPMAMQRIKEAAEKAKIELSSAMETEINLPFITADASGPKHLNMKLTRAKLESLVNDLIERTMAPCKKALEDAGLSASQIGEVVLVGGMTRMPKVIEKVKEFFGKDPHRGVNPDEVVAIGAAIQAGIIQGDVRDVLLLDVTPLSLGIETLGGVFTPLIERNTTIPTKKSQVFSTAEDNQTAVTIKVHQGERKLAVDNKLLGQFSLEGIPPAPRGRPQIEVTFDIDANGIAHVSAKDKATGKEQKIRIQSSGGLSDDEINRMVKEAEEKAQEDEKRKKFIEVKNQADSLVHSTEKSLTEYGDKVSPEDRSAIENAVNELKEVSKSDNIDDADSIQQKVTNLSQLSMKLGEAMYQASQQNSAENGFSSEGNPNDKEEKVVDSDYQDIDNKEENK |
| 693 | sp|Q3MI00|DNJB1\_BOVIN | MGKDYYQTLGLARGASDEEIKRAYRRQALRYHPDKNKEPGAEEKFKEIAEAYDVLSDPRKREIFDRYGEEGLKGSGPSGGSSGGTNGTSFSYTFHGDPHAMFAEFFGGRNPFDNFFGQRNGEEGMDIDDPFSGFPMGMGGFTNMNFGRSRPAQEPTRKKQDPPVTHDLRVSLEEIYSGCTKKMKISHKRLNPDGKSIRNEDKILTIEVKRGWKEGTKITFPKEGDQTSNNIPADIVFVLKDKPHNIFKRDGSDVIYPARISLREALCGCTVNVPTLDGRTIPVVFKDVIRPGMRRKVPGEGLPLPKTPEKRGDLIIEFEVIFPERIPQTSRTVLEQVLPI |
| 694 | sp|A2WZI4|DRE1F\_ORYSI | MDTEDTSSASSSSVSPPSSPGGGHHHRLPPKRRAGRKKFRETRHPVYRGVRARAGGSRWVCEVREPQAQARIWLGTYPTPEMAARAHDVAAIALRGERGAELNFPDSPSTLPRARTASPEDIRLAAAQAAELYRRPPPPLALPEDPQEGTSGGGATATSGRPAAVFVDEDAIFDMPGLIDDMARGMMLTPPAIGRSLDDWAAIDDDDDHYHMDYKLWMD |
| 695 | sp|Q6REU5|DRE1D\_ORYSI | MEKNTAASGQLMTSSAEATPSSPKRPAGRTKFQETRHLVFRGVRWRGCAGRWVCKVRVPGSRGDRFWIGTSDTAEETARTHDAAMLALCGASASLNFADSAWLLHVPRAPVVSGLRPPAARCATRCLQGHRRVPAPGRGSTATATATSGDAASTAPPSAPVLSAKQCEFIFLSSLDCWMLMSKLISSSRAKGSLCLRKNPISFCMVTNSYTALLLEYIILQMNSMIVLIHELSKYQVFLLLTMITHHLFQWRR |
| 696 | sp|Q9LYU3|EF113\_ARATH | MVSALSRVIENPTDPPVKQELDKSDQHQPDQDQPRRRHYRGVRQRPWGKWAAEIRDPKKAARVWLGTFETAEEAALAYDRAALKFKGTKAKLNFPERVQGPTTTTTISHAPRGVSESMNSPPPRPGPPSTTTTSWPMTYNQDILQYAQLLTSNNEVDLSYYTSTLFSQPFSTPSSSSSSSQQTQQQQLQQQQQQREEEEKNYGYNYYNYPRE |
| 697 | sp|Q8H273|DRE1E\_ORYSJ | MEWAYYGSGYSSSGTPSPVGGDGDEDSYMTVSSAPPKRRAGRTKFKETRHPVYKGVRSRNPGRWVCEVREPHGKQRIWLGTFETAEMAARAHDVAAMALRGRAACLNFADSPRRLRVPPLGAGHEEIRRAAVEAAELFRPAPGQHNAAAEAAAAVAAQATAASAELFADFPCYPMDGLEFEMQGYLDMAQGMLIEPPPLAGQSTWAEEDYDCEVNLWSY |
| 698 | sp|Q65WX1|DRE2D\_ORYSJ | MAAGEGDVGMEVETKAPAMPPPPPASSSAARKKKQARAKNGDTPEPDAAGGARARASRRAKRGPGSYRGVRQRRWGKWVSEIREPNRGKRHWLGTFGSAVDAALAYDKAAASILGPRAVLNFPAFSPPAAAIAAPEQCEPPFCSPATTAAATAPEQRQTPGCSPAAVAGSGGGAVFEERDVKPVVLPLPLPAILQDGGGTEAMAQHWDWEWDASWPELEMFECLDDIAMYLDVDAVMTTRDCKVEELDADIVDSPLWTLSD |
| 699 | sp|Q8WN65|ANGI\_MIOTA | MVMGLGLFLLVFMLGLGLTSPTLAQDNSRYRDFLSKHYDARPQGRNDRYCDSMMRRQGMTSPCKDINTFIHGNRRSIRAICGDENGNPYGENLRISRTPFQVTTCNLRGGSPRPPCRYRATAGFRNIVVACENGLPVHLDQSIFRP |
| 700 | sp|P21570|ANGI\_MOUSE | MAISPGPLFLIFVLGLVVIPPTLAQDDSRYTKFLTQHHDAKPKGRDDRYCERMMKRRSLTSPCKDVNTFIHGNKSNIKAICGANGSPYRENLRMSKSPFQVTTCKHTGGSPRPPCQYRASAGFRHVVIACENGLPVHFDESFFSL |
| 701 | sp|P48534|APX1\_PEA | MGKSYPTVSPDYQKAIEKAKRKLRGFIAEKKCAPLILRLAWHSAGTFDSKTKTGGPFGTIKHQAELAHGANNGLDIAVRLLEPIKEQFPIVSYADFYQLAGVVAVEITGGPEVPFHPGREDKPEPPPEGRLPDATKGSDHLRDVFGKAMGLSDQDIVALSGGHTIGAAHKERSGFEGPWTSNPLIFDNSYFTELLTGEKDGLLQLPSDKALLTDSVFRPLVEKYAADEDVFFADYAEAHLKLSELGFAEA |
| 702 | sp|P28777|AROC\_YEAST | MSTFGKLFRVTTYGESHCKSVGCIVDGVPPGMSLTEADIQPQLTRRRPGQSKLSTPRDEKDRVEIQSGTEFGKTLGTPIAMMIKNEDQRPHDYSDMDKFPRPSHADFTYSEKYGIKASSGGGRASARETIGRVASGAIAEKFLAQNSNVEIVAFVTQIGEIKMNRDSFDPEFQHLLNTITREKVDSMGPIRCPDASVAGLMVKEIEKYRGNKDSIGGVVTCVVRNLPTGLGEPCFDKLEAMLAHAMLSIPASKGFEIGSGFQGVSVPGSKHNDPFYFEKETNRLRTKTNNSGGVQGGISNGENIYFSVPFKSVATISQEQKTATYDGEEGILAAKGRHDPAVTPRAIPIVEAMTALVLADALLIQKARDFSRSVVH |
| 703 | sp|Q4J9J9|ARNR\_SULAC | MTKSLFDVLKELDSLVDFSRAKLQWDILIILATKGPSSTTEISQTINTSRKSIIDAIRKLVDKELVTKVKHDIYGLSDKGKELWNKIDSVLNIEVINGNNHKGQSKDEDILALENLSQYFYLINLSKMITINHDGLSLDKAARELGVSRQTLKYYLELFEEKKLFRVIGKRTHFKKNIYKCVLMNEGKRLLFRLPEFTKMKNNLPLKLLLRLTNSYTLEMANVKVMGFILISLPLLMYFRDQLGLIELPWLYAVIFLALLSVFAQILSR |
| 704 | sp|C6EBU6|CHEZ\_ECOBD | MMQPSIKPADEHSAGDIIARIGSLTRMLRDSLRELGLDQAIAEAAEAIPDARDRLYYVVQMTAQAAERALNSVEASQPHQDQMEKSAKALTQRWDDWFADPIDLADARELVTDTRQFLADVPAHTSFTNAQLLEIMMAQDFQDLTGQVIKRMMDVIQEIERQLLMVLLENIPEQESRPKRENQSLLNGPQVDTSKAGVVASQDQVDDLLDSLGF |
| 705 | sp|Q8FM94|CLPB\_COREF | MSSFNPTTKTSEAMQAALQQASANGNPDIRPAHLLVAILDQADGVAAPVLTAAGVDPKTILAEAQKLVDGYPKASGSNLANPNFNRDALNALTASQELAGELGDEYVSTEVLLAGIARGKSDAADLLKGKGATYDAIKAAFQSVRGSQKVTSQDPEGQFQALEKYSTDLTKLAREGKIDPVIGRDQEIRRVVQVLSRRTKNNPVLIGEPGVGKTAIVEGLARRIVAGDVPESLKGKTLISLDLGSMVAGAKYRGEFEERLKAVLDEIKGANGEIVTFIDELHTIVGAGASGESAMDAGNMIKPLLARGELRLVGATTLNEYRKYIEKDTALERRFQQVYVGEPSVEDTVGILRGLKERYEVHHGVRIQDSALVAAAELSHRYITSRFLPDKAIDLVDEAASRLRMEIDSSPQEIDELERIVRRLEIEEVALTKETDVASRERLERLRSELADEREKLSELKARWQNEKAVIDDVRKFKEELEALRSESDIAEREGDYGRVAELRYGRIPELEKKIAEAEEKIGGADNSMLTEEVTPEVIAEVVSAWTGIPAGKMMQGETEKLLNMERFLGKRVVGQHEAVTAVSDAVRRSRAGVADPNRPTGSFLFLGPTGVGKTELAKAVSEFLFDDERAMVRIDMSEYSEKHSVARLVGAPPGYVGYDQGGQLTEAVRRRPYTTVLFDEVEKAHPDVFDILLQVLDDGRLTDGQGRTVDFRNTILILTSNLGAGGTREQMMDAVKMAFKPEFINRLDDIVVFDPLSQEQLASIVEIQISQLAERLSDRRLTLRVSDAAKLWLAERGYDPAYGARPLRRLIQQAIGDQLAKELLAGEIRDGDRVLVDVADGGQYLAVSREH |
| 706 | sp|Q51929|CSPA\_PHOLD | EKGFGFLTQNNGGADVFVHFRAIASEGFKTLTEGQKVSFDVEQGQK |
| 707 | sp|Q9S170|CSPG\_SHEVD | MSNSTTGLVKWFNEEKGFGFITQDNGGDDVFVHFRSITSDGFKTLAEGQKVSFEVEQGQKGLQAANVVAL |
| 708 | sp|Q6ZIF9|CYL1\_ORYSJ | MAASRLALLLLVLAVAAARHALPAAGSDAHPGYDGAEDTCGVPAAAAAAGRMEEYGGGRILDITHAYRADLPAFAPGAVTGPVVRLRDSMANGTLYNLSELKMECHMGTHVDAPGHMNQGHFAAGLDVDKLDLDLLNGPTLLVDTPRNTNITAKAMESLNIPKGVRRVLFRTLNTDRKLMWKKGGDLSYVGFTEDGAQWLVDNTDIKLVGIDYLSVAAYDHLITAHVVFFKFPNIILVEGLKLDDVKAGIYMLHCLPLRLVGSEGSPIRCILIK |
| 709 | sp|Q5HIF2|CTSR\_STAAC | MHNMSDIIEQYIKRLFEESNEDVVEIQRANIAQRFDCVPSQLNYVIKTRFTNEHGYEIESKRGGGGYIRITKIENKDATGYINHLLQLIGPSISQQQAYYIIDGLLDKMLINEREAKMIQAVIDRETLSMDMVSRDIIRANILKRLLPVINYY |
| 710 | sp|Q9RX92|DDRA\_DEIRA | MKLSDVQKRLQAPFPAHTVSWKPAAFNAERTRALLLAHVDARAVQDRLDAVCPDDWSFEMEVVSGAEVPTVKGRLTVLGVTREDIGEAPEGSMAAYKAAASDAMKRCAVQFGIGRYLYDLPKQWADWDDARRGPKHLPELPEWARPDHERTPGGAHLVQAMEQLRYELPEDLDLQREVYKHLKAALGSIHPVPTGPVPTNPVQGGRAA |
| 711 | sp|P95694|DNAJ\_STRAG | MNNTEFYDRLGVSKDASQDEIKKA |
| 712 | sp|B1LZ51|DNAK\_METRJ | MGKVIGIDLGTTNSCVAVMEGTQPKVIENSEGARTTPSIVAFTDDGERLVGQPAKRQAVTNPERTFFAIKRLIGRTYDDPMTQKDKGLVPYKIARGDNGDAWVEADGKKYSPSQISAFTLQKMKETAESHLGQPVTQAVITVPAYFNDAQRQATKDAGKIAGLEVLRIINEPTAAALAYGLDKKKSGTIAVYDLGGGTFDVSILEIGDGVFEVKSTNGDTFLGGEDFDNRIVEYLTAEFKKEQGIDLTKDKLALQRLKEAAEKAKIELSSATQTEINLPYITADNTGPKHLALKLSRAKFESLVDDLVQRTIEPCRKALKDAGVSASEIDEVVLVGGMIRMPKIQEVVKSFFGKEPHKGVNPDEVVAIGAAVQAGVLQGDVKDVLLLDVTPLSLGIETLGGVFTRLIDRNTTIPTKKSQTFSTAEDNQNAVTIRVFQGEREMAADNKLLGQFDLVGIPPAPRGMPQIEVTFDIDANGIVNVTAKDKATNKEHQIRIQASGGLSDADIDRMVKDAEANAEADKKRRELVEVKNQGESLIHATEKSVTEYGDKVPAADKGAIETAMTALKTALEGDDVEAIKARTTDLMQASMKLGEAMYAANQAAGPDAGAEAAASEKKDDVIDADFQEVDEKDQKKRA |
| 713 | sp|P80462|DNAK\_MYCAV | ARAVGIDLGTTNAVVAVLEG |
| 714 | sp|Q2JW78|DNAJ\_SYNJA | MARDYYEILGVSRDSSKEEIKRAYRRLARKYHPDVNKEPGAEDRFKEINRAYEVLSDDELRARYDRFGEAGLSGAAAAASGFQDFAGIGGFADLFESFFTNFAGGGVGYSRSRQGPVRGDDLRFDLKLEFLEAIFGGEKQIRISHLEVCPVCGGSGAKPGTDVKVCPTCGGAGQVRRATRTPFGNFTQVSICPTCGGAGRVLEEPCYNCNGEGLAQTTKKLRINIPAGVDSGTRLRVSGEGDAGRRGGPPGDLYVYLFVEPDPDFQRDGLTIFSQVRVSYLQAILGAKVLVPTVDSKAGLEEEAELTIPAGSQPGTVLTLEGKGVPRLGNPMLRGDHKITLVVEIPTRISSEERELLMRLAELHGERINKRDGFLGGLLRGLAQMPGNREREEE |
| 715 | sp|B8EIP9|DNAK\_METSB | MAKVIGIDLGTTNSCVAVMEGTTPKVIENAEGARTTPSIVAFTDDGERLVGQPAKRQSVTNPERTFFAIKRLIGRTYDDPMTKKDMGLVPYKIIRASNGDAWVEADGKQYSPSQISAFILQKMKETAEAYLGQPVSQAVITVPAYFNDAQRQATKDAGKIAGLEVLRIINEPTAAALAYGLDKKGAGVIAVYDLGGGTFDVSILEIGDGVFEVKSTNGDTFLGGEDFDVRLVEYLADEFKKENGIDLKKDKLALQRLKEAAEKAKIELSSATQTEINLPYITADATGPKHLTLKLTRAKFEALVDDLIQKTVEPCRKALKDAGLTAGEINEVVLVGGMTRMPKVQEVVKSFFGKEPHKGVNPDEVVAIGAAVQAGVLQGDVKDVLLLDVTPLSLGIETLGGVFTRLIDRNTTIPTKKSQVFSTAEDNQTAVTIRVFQGEREMAADNKLLGQFDLVGIPGAPRGVPQIEVTFDIDANGIVNVTAKDKATNKEQQIRIQASGGLSEGDIDKMVKDAEVHAAEDKKRRELVDARNQAEAMVHSAEKSLTEFAGKVSDADKSALEAAIASVKGVLEGEDVEAIKARSNDLAQASMKLGEAMYKAGAEAGPQEGGGAEKDDVIDADFKEVGPDDKKKSA |
| 716 | sp|P05646|DNAK\_BACME | MSKIIGIDLGTTNSCVAVLEGGEPKVIPNPEGNRTTPSVVAFKNGERQVGEVAKRQAITNPNTIISVKRHMGTDHKVEAEGKQYTPQEMSAIILQHLKGYAEEYLGEPVTKAVITVPAYFNDAERQATKDAGKIAGLEVERIINEPTAAALAYGLEKTDEDQTVLVYDLGGGTFDVSILELGDGVFEVRATAGDNRLGGDDFDQVIIDYLVAEFKKENGVDLSKDKMALQRLKDAAEKAKKDLSGVTSTQISLPFITAGEAGPLHLEVSLSRAKFDELSAGLVERTMAPVRQALKDAGLSASELDKVILVGGSTRIPAVQDAIKKETGQDPHKGVNPDEVVALGAAIQGGVLTGDVKDVVLLDVTPLSLGIETMGGVFTKLIERNTTIPTSKSQVFSTAADSQTAVDIHVLQGERPMSADNKTLGRFQLTDIPPAPRGVPQIEVSFDIDKNGIVNVRAKDLGTNKEQAITIKSSTGLSDDEIDRMVKEAEENADADKQRKEEVELRNEADQLVFTTEKTLKDLEGKVEEAEVTKANEAKDALKAAIEKNDLEEIKAKKDELQEIVQALTVKLYEQAQQAQQAGEQGAQNDDVVDAEFEEVNDDKK |
| 717 | sp|C6DF10|DNAK\_PECCP | MGKIIGIDLGTTNSCVAIIDGTQVKVLENSEGDRTTPSIIAYTQDGETLVGQPAKRQAVTNPKNTLFAIKRLIGRRFKDEEVQRDANIMPYKIIAADNGDAWLEVKDQKMAPPQISAEVLKKMKKTAEDYLGETISEAVITVPAYFNDAQRQATKDAGRIAGLEVKRIINEPTAAALAYGLDKEVGNRTIAVYDLGGGTFDISIIEIDEVDGEKTFEVLATNGDTHLGGEDFDSRMINYLVDEFKKEQGFDLRNDPLAMQRLKEAAEKAKIELSSAQQTDVNLPYITADATGPKHLNIKVTRAKLESLVEELVNRSLEPLKVALQDAGLSVSEIQDVILVGGQTRMPLVQKKVADFFGKEPRKDVNPDEAVAIGAAVQGGVLSGDVKDVLLLDVTPLSLGIETMGGVMTALIAKNTTIPTKHSQVFSTAEDNQSAVTIHVLQGERKRAHDNKSLGQFNLDGIQAAPRGMPQIEVTFDIDADGILHVSAKDKNSGREQKITIKASSGLNEEEIQKMVRDAEANAEADRKFEELVQARNQGDHLLHSTRKQLEEVGDKLAADDKTAIDDALKALESALKGEDKAEIEAKIQALVQVSGKLLEASQPQPGAEGAADDASARRDDDVVDAEFEEVKDKK |
| 718 | sp|Q8CP18|DNAJ\_STAES | MAKRDYYEVLGVNKSASKDEIKKAYRKLSKKYHPDINKEEGADEKFKEISEAYEVLSDENKRANYDQFGHDGPQGGFGSQGFGGSDFGGFEDIFSSFFGGGSRQRDPNAPRKGDDLQYTMTITFEEAVFGTKKEISIKKDVTCHTCNGDGAKPGTSKKTCSYCNGAGRVSVEQNTILGRVRTEQVCPKCEGSGQEFEEPCPTCKGKGTENKTVKLEVTVPEGVDNEQQVRLAGEGSPGVNGGPHGDLYVVFRVKPSNTFERDGDDIYYNLDISFSQAALGDEIKIPTLKSNVVLTIPAGTQTGKQFRLKDKGVKNVHGYGHGDLFVNIKVVTPTKLNDRQKELLKEFAEINGEDINEQSSNFKDRAKRFFKGE |
| 719 | sp|A1WX30|DNAJ\_HALHL | MAKRDYYEVLGVNKNASDAEIKKAYRRMAQKFHPDRNPGDEESAERFKEVKEAYEVLSDAQKRAAYDQFGHAGVDPSAGGGPRGYGGGAGPGGPDFSDIFSDVFGDIFGSGGGRGGGRSRAFRGADLRYTLELSLEDAVRGTEEQIQVPTHVECDACKGSGSRAGSKPQTCPTCKGHGDVRVQQGFFSIQQTCPRCGGEGTMVTDPCPKCRGRGRVEDRKTLNVRIPAGVDTGDRIRLSGEGEPGERGGPPGDLYVQVAVREHEFFERDGADLHCQVPVDIVTAALGGEVEVPTLDGRVNLRIPPGTQPNQVFRLRGKGVKPVRGNRQGDLLCRIHVETPVNLTKRQRELLEEFQATLQDTGGKHHPHTSSWLDKVKRFIEEWRI |
| 720 | sp|P48208|DNAJ\_HAEDU | MAKKDYYEVLGLQKGATEKDIKRAYKRLAAKYHPDKNQGSKDSEEKFKQITEAYEILTDDQKRAAYDQYGHAAFEQGSSNGGFNGFGGGFGGFEDIFSEMFGGGFGGGSRRQHVVRGQDLRYDIEISLEEAVKGCKKDIRLSTLAECDNCHGTGAEAGTKVENCPHCHGAGRIRRQQGFFVTEAVCPSCHGTGKKIEKPCHSCHGDGRVQKAKNLSVTIPAGVDTGNQLRLSGEGEAGENGAPAGDLYVVIHVREHNIFTRDGANLYCEVPISFSMAALGGEIEVPTLDGKLKLKIPTETQTGKLFRVRGKGVVSPRGGYAGDLICKVVVETPVQLNEEQKELLRQLEISLDGKANHRPQQAGFLDSVKNFFTHLGK |
| 721 | sp|Q8YUA6|DNAK3\_NOSS1 | MGKVIGIDLGTTNSCVAVLEGGQPIVIANSEGGRTTPSIVGFGKSGDRLVGQLAKRQAVTNAENTIFSIKRFIGRRWEDTETERDRVPYGCVKGRDDTVDVQIRGRNYTPQEISAMILQKLKQDAENFLGEAVTQAVITVPAYFTDAQRQATKDAGTIAGLEVLRIINEPTAAALAFGLEKQDQEQLILVFDLGGGTFDVSILQLGDGVFEVKATSGNNQLGGDDFDGCVVCWMIERFQQQEKIDLAQDKMALQRLREAAEKAKIELSSMASTSINLPFITADETGPKHLEMELSRSKFEELVGQLIEATIQPMIQALKDADLKPQDIDKIILVGGSTRIPAVQNALIKFFNGKAPDRSVNPDEAVALGAAIQAGVLGGEVDNLLLLDVTPLSLGIETLGEVFTKIIERNTTIPTSKSQIFSTAVDGQTSVEIHILQGERTMARDNKSLGKFLLAGIPPASRGVPQIEVSFEIDVNGILKVAAQDKGTGREQSIRITNTGGLSTNEVERMRQEAEVFAEEDRRRKELVELKNQADNLLIIYESTLKDNGDLIGEQIKVLANEKVAQIQSVMTNPAISLKEFQQCLDDFQQTLFSIGANVYQRANTQTDDELEVMSDGSSPSDIEHPISGTLIPQFNFDFDDESTAQADYEAID |
| 722 | sp|Q05981|DNAK\_BRUO2 | MAKVIGIDLGTTNSCVAVMDGKNAKVIENAEGARTTPSIIAFTDGDERLAGQPAKRQAVTNPEGTLFAVKRLIGRRYDDPMVTKDKDLVPYKIVKGDNGDAWVEVHGKKYSPSQISAMILQKMKETAESYLGETVTQAVITVPAYFNDAQRQATKDAGKIAGLEVLRIINEPTAAALAYGLDKSEGKTIAVYDLGGGTFDVSVLEIGDGVFEVKSTNGDTFLGGEDFDIRLVEYLVAEFKKESGIDLKNDKLALQRLKEAAEKAKIELSSSQQTEINLPFITADQTGPKHLAIKLSRAKFESLVDDLVQRTVEPCKAALKDAGLKAGEIDEVVLVGGMTRMPKIQEVVKAFFGKEPHKGVNPDEVVAMGAAIQGGVLQGDVKDVLLLDVTPLSLGIETLGGVFTRLIERNTTIPTKKSQTFSTAEDNQSAVTIRVFQGEREMAADNKLLGQFDLVGIPPAPRGVPQIEVTFDIDANGIVNVSAKDKGTGKEHQIRIQASGGLSDADIEKMVKDAEANAEADKKRRESVEAKNQAESLVHSTEKSLAEYGDKVSADDKKAIEDAIAALKTSLEGEDAEDIKAKTQALAEVSMKLGQAMYEAAQAAEGAGAEGGEQASSSKDDVVDADYEEIDDNKKSS |
| 723 | sp|Q601X8|DNAJ\_MYCH2 | MAKQDFYKILGVEKSASLTEIKKAYRNLVNIYHPDKNTKKSAEEQKQAEAKFKEIQEAYEILSDETKRKQYDKFGHAAFDQQFGGGSSGFSGFDFGDIFSSFTSGFGFGGSQEQKYSRPLKGENFQAKIYISFIESILGKEISQKLTKYDQCDNCKGSGANSSSDITTCYNCQGRGMQTEVLNIPGFGRVQNKTTCSVCLGSGKNITKNCKKCRGKTIVETKEEVTIKIPAGIQDGMFIRVAGFGGPGHKGGPSGDLHLEINVRQHKHFTRSGNDIHVNMPVSIIDVINQNTVEVPSPTGLKKVRLYDYYKSGQIVNVLRAGAPDPKNPRIIGDLKVHLIFYIPEFSPRQKDDLNQVFAQINDKTKAK |
| 724 | sp|B9JZ87|DNAK\_AGRVS | MAKVIGIDLGTTNSCVSVMDGKDAKVIENSEGARTTPSMVAFSDDGERLVGQPAKRQAVTNPTNTLFAVKRLIGRRYEDPTVEKDKGLVPFPIIKGDNGDAWVEAQGKGYSPAQISAMILQKMKETAEAYLGEKVEKAVITVPAYFNDAQRQATKDAGRIAGLEVLRIINEPTAAALAYGLDKTEGKTIAVYDLGGGTFDISVLEIGDGVFEVKSTNGDTFLGGEDFDMRLVEYLAAEFKKEQGIELKNDKLALQRLKEAAEKAKIELSSSQQTEINLPFITADASGPKHLTMKLTRAKFENLVDDLVQRTVAPCKAALKDAGVTAADIDEVVLVGGMSRMPKVQEVVKQLFGKEPHKGVNPDEVVAMGAAIQAGVLQGDVKDVLLLDVTPLSLGIETLGGVFTRLIDRNTTIPTKKSQVFSTADDNQQAVTIRVSQGEREMAQDNKLLGQFDLVGLPPSPRGVPQIEVTFDIDANGIVQVSAKDKGTGKEQQIRIQASGGLSDADIEKMVKDAEANAEADKNRRAVVEAKNQAESLIHSTEKSVKDYGDKVSADDRKAIEDAIAALKSSIETSEPNAEDIQAKTQTLMEVSMKLGQAIYESQQAEGGAEGGPSGHHDDGIVDADYEEVKDDNTKKSA |
| 725 | sp|Q3Z601|DNAK\_SHISS | MGKIIGIDLGTTNSCVAIMDGTTPRVLENAEGDRTTPSIIAYTQDGETLVGQPAKRQAVTNPQNTLFAIKRLIGRRFQDEEVQRDVSIMPFKIIAADNGDAWVEVKGQKMAPPQISAEVLKKMKKTAEDYLGEPVTEAVITVPAYFNDAQRQATKDAGRIAGLEVKRIINEPTAAALAYGLDKGTGNRTIAVYDLGGGTFDISIIEIDEVDGEKTFEVLATNGDTHLGGEDFDSRLINYLVEEFKKDQGIDLRNDPLAMQRLKEAAEKAKIELSSAQQTDVNLPYITADATGPKHMNIKVTRAKLESLVEDLVNRSIEPLKVALQDAGLSVSDIDDVILVGGQTRMPMVQKKVAEFFGKEPRKDVNPDEAVAIGAAVQGGVLTGDVKDVLLLDVTPLSLGIETMGGVMTTLIAKNTTIPTKHSQVFSTAEDNQSAVTIHVLQGERKRAADNKSLGQFNLDGINPAPRGMPQIEVTFDIDADGILHVSAKDKNSGKEQKITIKASSGLNEDEIQKMVRDAEANAEADRKFEELVQTRNQGDHLLHSTRKQVEEAGDKLPADDKTAIESALTALETALKGEDKAAIEAKMQELAQVSQKLMEIAQQQHAQQQTAGADASANNAKDDDVVDAEFEEVKDKK |
| 726 | sp|A9MXI2|DNAK\_SALPB | MGKIIGIDLGTTNSCVAIMDGTQARVLENAEGDRTTPSIIAYTQDGETLVGQPAKRQAVTNPQNTLFAIKRLIGRRFQDEEVQRDVSIMPYKIIGADNGDAWLDVKGQKMAPPQISAEVLKKMKKTAEDYLGEPVTEAVITVPAYFNDAQRQATKDAGRIAGLEVKRIINEPTAAALAYGLDKEVGNRTIAVYDLGGGTFDISIIEIDEVDGEKTFEVLATNGDTHLGGEDFDTRLINYLVDEFKKDQGIDLRNDPLAMQRLKEAAEKAKIELSSAQQTDVNLPYITADATGPKHMNIKVTRAKLESLVEDLVNRSIEPLKVALQDAGLSVSDINDVILVGGQTRMPMVQKKVAEFFGKEPRKDVNPDEAVAIGAAVQGGVLTGDVKDVLLLDVTPLSLGIETMGGVMTPLITKNTTIPTKHSQVFSTAEDNQSAVTIHVLQGERKRASDNKSLGQFNLDGINPAPRGMPQIEVTFDIDADGILHVSAKDKNSGKEQKITIKASSGLNEEEIQKMVRDAEANAESDRKFEELVQTRNQGDHLLHSTRKQVEEAGDKLPADDKTAIESALNALETALKGEDKAAIEAKMQELAQVSQKLMEIAQQQHAQQQAGSADASANNAKDDDVVDAEFEEVKDKK |
| 727 | sp|Q05FS8|DNAK\_CARRP | MSKIIGIDLGTTNSCIAVLSNGKPQVIENSEGGRTTPSVVGYTEDNRIIVGLPAKRQAITNPKNTLYAIKRLIGRKFKDDIVQKDIKMVPYKIISSENGDAWVEVKDKKLAPPQISAEILKKMKITAENFLNEKVTKAVITVPAYFNDSQRQATKDAGKIAGLEVLRIINEPTAAALAYGLDKKKNDRIIAVYDLGGGTFDISIIEIANVDGETQFEVLSTNGDTFLGGEDFDIRIINNLIYEFKIENGINLSGDSLAMQRLKEAAEKAKIELSSVEQTDINLPYITADKNGPKHLNIKITRSKLESLVEDLILKSLKPCEIALNDAKISKNKIDEIILVGGQTRMPLVQKMVSDFFEKVVKKDINPDEAVAIGASVQAGVLSGVVKDVLLLDVTPLTLGIETMGGIMTPLIEKNTTIPTKKTQVFSTAEDNQTSVTIHTLQGERKKALQNKSLGKFDLNNISPAPRGVPQIEVSFDLDANGILNVTAKDKKTGVEQSIVIKSSGGLSELEIENMIKDAEANLEIDKKFEELVKCRNEADSTISIVKKKLKDENLKILDEERVSIEKSISNLELLIKGDDIDSIKKENEELLKLSDNIIKKK |
| 728 | sp|B2GBQ5|DNAK\_LACF3 | MASNKIIGIDLGTTNSAVAVMEGNEPKIITNPEGGRTTPSVVSFKNGEVQVGEVAKRQAITNPNTVKSIKSHMGEAGYTVDIEGKKYTPQEISAMILQYIKKYAEDYIGDTVTEAVITVPAYFNDAQRQATKDAGKIAGLDVKRIINEPTASSLAYGLDKKDRDEKILVYDLGGGTFDVSILELGDGVFQVLSTNGDTHLGGDDFDQKIMDWLIDGFKQENGIDLSQDKMALQRLKDAAEKAKKDVSGVQEAQISLPFITSGDNGPLHLEKTLTRAQFNQLTNDLVERTKQPVLNALKDAELSFSDIDEVILNGGSTRIPAVQEMVKSLTGKEPNHSINPDEAVALGAAIQGGVLTGDVKDVVLLDVTPLSLGIETMGGVFTKLIDRNTTIPTSKSQVFSTAADNQPAVDIHVLQGERPMAADNKTLGNFQLTDIPPAPRGVPQIKVTFDIDKNGIVNVSAEDQGTHKKQNITIKSNSGLSDEEIERMKKDAEANAEADKKKKEEADLRNETDQLLFQTDKTLEELKGKVSDDEIKKAQDAKDALQKAKDDNNLEDMKAKKDDLNKIVQDLTVKLYQQAQQENQANGGQPTGDQGDGKKDDDNTVDGDFEEVNPDDKK |
| 729 | sp|B8DYH6|DNAK\_DICTD | MAKIVGIDLGTTNSLIAYLEGGRPVIIPNAEGSRLTPSIVAFTKDGQLLVGEPAKRQAIVNAERTIRSIKRHMGTNYKVKIDDKEYTPQEISAMILRKLKRDAEAYLGEKIEKAVITVPAYFSDAQRQATKDAGAIAGLEVVRIINEPTAAALAYGLDKEGHQKILVFDLGGGTFDVSILEIGEGVFEVIATAGNNRLGGDDFDERIVNWLIENFMEEHGINLREDKTALQRLYEAAEKAKIELSSKLQTEINLPFIAMKGNTPLHLSYTLTRAKFEELTYDLVEKTKEPTERALKDAGLSPSQIDKIILVGGATRMPCIQEWIKKHFGKEPQRNVNPDEAVALGAAIQAGVIGGEIRDIVLVDVTPLSLGIETLGGVFTKIIERNTPIPVSKSQIFTTAADYQTSVEIHVLQGERALAKDNISLGRFILDGIPPAPRGVPQIEVTFDIDVNGIVHVSAKDKATGREQRITISNAIRLSEAEIKRMTEEAKRFEEEDRKRREEIETKNQAEHLIYTARKTLKDYGDKVSKDIVQKVEDKIKNLEELIKPERINVEQVRKGMEELTQTLGEIGQFMYQSAGSTAGNPGQGQSTENPGGKTIDGDYKVN |
| 730 | sp|Q8KRC9|DNAJ\_MYXXA | MADDYYQTLGVDRSASAEDVKKAYRKLARKYHPDVNPGNKAAEEKFKQVSAAFEVLSDTRKRKLYDEFGPDAEKIGFDEKKAEAYRAYKASAGSAGAGGIPYGAEGFDLGDLFGDLFGGRGGGAAGGAPGGFDIGEMFGRRGRNAGPERGEDLTVRVQLTLAEAVSGTERPLAFNRPGRCSTCSGRGTSGPVSTCNVCNGTGRARRSGSLFGGAGACPNCHGTGKAAPPCPQCGGAGVKEELARLTVKIPAGVHTGSKVRLSGQGAAGTRGGPPGDLYIETEVAEHPLVRREGDDLHLDLPVTVSEALLGADVRVPTFQGEVTVKVLPHSQSGRRMRLKGRGVPSLKGGAQGDLYLHLQVKVPEETTAEARAAAEALARAYQGDVRRELTL |
| 731 | sp|A8LQ63|DNAJ\_DINSH | MAKRDYYDVLGVSKGASPDEIKKGFRKKAKELHPDRNSDNPNAEAQFKEANEAYDILKDPDKKAAYDRYGHAAFENGSGGPRGPGGFGGQGQGDFASAFSDVFEDLFGDFMGGQRGGGRQRAARGSDLRYNLRITLEQAFMGMQKTISVPGTVSCSACEGTGAEGGAEPVVCPTCSGMGKVRAQQGFFTIEKTCPTCSGMGQIIKNPCQACRGAGREEKTRALSVNIPAGVETGTRIRLAGEGDAGVRGGPSGDLYIFIEVEEHRIFQREGLDLYCRVPVSMTSAALGGDVEVPTIEGGRSRVKIPSGSQSGRQMRLRGKGMPALRGAGTGDMFIELAVETPVNLTMRQRELLREFEAESQDNQPETSKFFKTVKSFWDGMKS |
| 732 | sp|A1AW21|DNAJ\_RUTMC | MSQKDYYEILGVAKNADAKQIKKAYKRLAMKHHPDRVKNDKASAEKKFKEIQKAYAILSDVQKRQAYDQFGHVGGNANVGSAGGNPFGGGFGDIFGDIFGGGSQQSNNRGSDLRYDLEIDLKKAAQGSTVKIRIPKNETCDTCSGIGAKSGTNVKTCSICSGVGQVQTQQGFFTVQRPCGTCSGTGQKIEFPCGTCRGQGLVRKQKTLSVKIPAGVDTGNRIRLSGEGEAGTIGSSSGDLYVQVHVKKHAIFEREDNDLYCEVPIDFATAALGGSIEVPTLENKLKIKVPSGTQTGKLFRLRDKGISHLQRDGSGDLICQVKIETPVNLNKKQQDLLQKFSSSCGKKHHPESDSFFDKMKSFFG |
| 733 | sp|B4TIB5|DNAJ\_SALHS | MAKRDYYEILGVSKTAEEREIKKAYKRLAMKYHPDRNQGDKEAEAKFKEIKEAYEVLTDAQKRAAYDQYGHAAFEQGGMGGGFGGGFNGGADFSDIFGDVFGDIFGGGRGRQRAARGADLRYNMDLTLEEAVRGVTKEIRIPTLEECDVCHGSGAKAGTQPQTCPTCHGSGQVQMRQGFFAVQQTCPHCQGRGTLIKDPCHKCHGHGRVEKSKTLSVKIPAGVDTGDRIRLAGEGEAGEHGAPAGDLYVQVQVKQHPIFEREGNNLYCEVPINFAMAALGGEIEVPTLDGRVMLKVPSETQTGKLFRMRGKGVKSVRGGAQGDLLCRVVVETPVGLSEKQKQLLKDLQESFGGPTGEKNSPRSKSFFDGVKKFFDDLTR |
| 734 | sp|Q24SS4|DNAJ\_DESHY | MKRDYYEVLGVSKSADEQEIKKAYRKLARQYHPDVNPGDKDAEEKFKEATEAYDVLSDTEKRARYDQMGHSAFDPNQQGFGGFGGDFGGFGDIFDMFFGGGGGGGQRRQGPTRGNDLRYDLTITFEEAAFGTEKEIQVPRQETCTECHGSGSAPGTHPTTCSQCHGTGQVKATQRTPFGAIQTARTCPACNGSGQFISSPCKECSGKGTTRKVKTIKVTVPPGSEDGLNLRFSGNGEAGLRGGPSGDLYVVLNVKAHKFFEREGNDVYCEIPITFVQAALGSELDVPTLDGKVKMKIPEGTQTATVFRLRGHGIPYRRGNGRGDQHVRVVVATPTKLTDRQKELLREFGEVTSDQQQMGKKSFFEKVKENIRDAIDL |
| 735 | sp|Q7UM96|DNAJ\_RHOBA | MATKTCYYEVLKVERTATKQQVDRAYRKLAIKYHPDSNRDDGSATAKFKEATEAYEVLSDANKRARYDQYGHAGVEGATQQYGDVEDIFEAFGDLFGGGFGDFFGGGSRRGGGRRRVRRGADVRCDVTLTLEEAARGCHKDIVFRRRVSCDTCDGSGAAAGSEPVTCTMCGGQGQVIQSAGILRVQTTCPTCKGAGKQIGEPCGKCRGTGTQNEKAEMNVEIPAGVDDGMRVRLQGEGEPSPDGGPNGDCYCFISVKEHNLFKREGQHLILQMPISYAQAALGATINVPTLDGPHELTVPAGTQTGHVFTVRGQGIVDPRSGRTGDLLVQIFIEVPKKLSDKQQKLLRELAELDHDSVLPERTSFLDKLRHFFDPEPEEAGTGSTDTEKDS |
| 736 | sp|A9MXI3|DNAJ\_SALPB | MAKRDYYEILGVSKTAEEREIKKAYKRLAMKYHPDRNQGDKEAEAKFKEIKEAYEVLTDAQKRAAYDQYGHAAFEQGGMGGGFGGGFNGGADFSDIFGDVFGDIFGGGRGRQRAARGADLRYNMDLTLEEAVRGVTKEIRIPTLEECDVCHGSGAKAGTQPQTCPTCHGSGQVQMRQGFFAVQQTCPHCQGRGTLIKDPCHKCHGHGRVEKSKTLSVKIPAGVDTGDRIRLAGEGEAGEHGAPAGDLYVQVQVKQHPIFEREGNNLYCEVPINFAMAALGGEIEVPTLDGRVMLKVPSETQTGKLFRMRGKGVKSVRGGAQGDLLCRVVVETPVGLSEKQKQLLKDLQESFGGPTGEKNSPRSKSFFDGVKKFFDDLTR |
| 737 | sp|C0Q4F4|DNAJ\_SALPC | MAKRDYYEILGVSKTAEEREIKKAYKRLAMKYHPDRNQGDKEAEAKFKEIKEAYEVLTDAQKRAAYDQYGHAAFEQGGMGGGFGGGFNGGADFSDIFGDVFGDIFGGGRGRQRAARGADLRYNMDLTLEEAVRGVTKEIRIPTLEECDVCHGSGAKAGTQPQTCPTCHGSGQVQMRQGFFAVQQTCPHCQGRGTLIKDPCHKCHGHGRVEKSKTLSVKIPAGVDTGDRIRLAGEGEAGEHGAPAGDLYVQVQVKQHPIFEREGNNLYCEVPINFAMAALGGEIEVPTLDGRVMLKVPSETQTGKLFRMRGKGVKSVRGGAQGDLLCRVVVETPVGLSEKQKQLLKDLQESFGGPTGEKNSPRSKSFFDGVKKFFDDLTR |
| 738 | sp|Q5HTK3|DNAJ\_CAMJR | MEISYYEILEITQNADKETIKKAYRKMALKYHPDRNQGDKEAEDKFKLVNEAYEVLSNDEKRAIYDRYGKDALKGGGFGSSSSGFGGFEDLGDIFSSFFGEGFGSSRRRKSSNDEKIPSDFIVNLKLSFKEAVFGCKKNIDFTYKCSCKTCNGTGAKDGKLQTCPKCQGRGQVGVSQGFITFAQTCPDCQGIGEKASEKCSDCKGLGYNESKNSVELNIPEGVDTGMKLRVNAKGNILKNGTRGDMYVKIIAAEDDTFIRDDDDIYIEFPVFFTQAILGESIKVPTIRGEATLNLPKGAKDGQRFVLEKEGVKDVHSSRIGNQIVQISIKFPTSLNDEQKELLEKLSESFGIKDGMHQEQKGLFEKIANWFKS |
| 739 | sp|P08622|DNAJ\_ECOLI | MAKQDYYEILGVSKTAEEREIRKAYKRLAMKYHPDRNQGDKEAEAKFKEIKEAYEVLTDSQKRAAYDQYGHAAFEQGGMGGGGFGGGADFSDIFGDVFGDIFGGGRGRQRAARGADLRYNMELTLEEAVRGVTKEIRIPTLEECDVCHGSGAKPGTQPQTCPTCHGSGQVQMRQGFFAVQQTCPHCQGRGTLIKDPCNKCHGHGRVERSKTLSVKIPAGVDTGDRIRLAGEGEAGEHGAPAGDLYVQVQVKQHPIFEREGNNLYCEVPINFAMAALGGEIEVPTLDGRVKLKVPGETQTGKLFRMRGKGVKSVRGGAQGDLLCRVVVETPVGLNERQKQLLQELQESFGGPTGEHNSPRSKSFFDGVKKFFDDLTR |
| 740 | sp|Q2J319|DNAJ\_RHOP2 | MSTTKRCYYETLEVERSADESTLKSAFRKLAMKWHPDRNPGDASSEIKFKEINEAYEVLKDGDKRAAYDRYGHAAFEQGMGGGGPGFGAGFASSFSDIFEDLFGMAGQRGRGTGRERGADLRYNMEITLEDAYKGKTAQIEIPVSVTCESCSGTGAKAGTKPKTCSTCGGAGRVRQAQGFFTLERTCPSCQGRGQIIEDPCPSCTGSGRVTKERTLSVNIPQGVEDGTRIRLAGEGEAGVRGGPPGDLYIFLSLASHAIFQRDGADLHCRVPISMVTAALGGEFEVPTIERGKTKVKVPSGTQTGRRFRIAGKGMPVLRSRQVGDMYVQVAVETPQNLTKKQQELLAEFEKLSSGATQPEAAGFFSKVKDFFGSRANTP |
| 741 | sp|B5FHA7|DNAJ\_SALDC | MAKRDYYEILGVSKTAEEREIKKAYKRLAMKYHPDRNQGDKEAEAKFKEIKEAYEVLTDAQKRAAYDQYGHAAFEQGGMGGGFGGGFNGGADFSDIFGDVFGDIFGGGRGRQRAARGADLRYNMDLTLEEAVRGVTKEIRIPTLEECDVCHGSGAKAGTQPQTCPTCHGSGQVQMRQGFFAVQQTCPHCQGRGTLIKDPCHKCHGHGRVEKSKTLSVKIPAGVDTGDRIRLAGEGEAGEHGAPAGDLYVQVQVKQHPIFEREGNNLYCEVPINFAMAALGGEIEVPTLDGRVMLKVPSETQTGKLFRMRGKGVKSVRGGAQGDLLCRVVVETPVGLSEKQKQLLKDLQESFGGPTGEKNSPRSKSFFDGVKKFFDDLTR |
| 742 | sp|Q31HA7|DNAK\_HYDCU | MGKIIGIDLGTTNSCVAVMEGKETKVIPNAEGARTTPSIVAYADDGEVLVGDSAKRQAVTNPENTLFAIKRLIGRRADDAVVEKDKDMVSYKIIAADNGDAWVQVGDKKLSPQEVSARTLMKMKKTAEDYLGHEVTEAVITVPAYFNDSQRQATKDAGKIAGLEVKRIINEPTAAALAYGMDKVKADSKIAVYDLGGGTFDISIIEVADLDGEKQVEVLSTNGDTFLGGEDFDNVIVDYIATEFKKDQNVDLKLDKLALQRVREAAEKAKIELSSREQTDINLPYVTADATGPKHLNMKITRAKFESLIEGLVQRSIDPCKTALKDAGLSASEIDDVILVGGSTRVPMVQAAVKEFFGKEPRKDVNPDEAVAMGAAIQGGVLSGDVNDVLLLDVTPLSLGIETMGGVMTKLIEKNTTIPTRKSQTFSTAEDNQSAVTIHVLQGEREVSSGNKSLGQFNLDEIPPAPRGTPQIEVTFDIDANGILNVSAKDKATNKEQHITIQASSGLSEDEIEAMVKDAEAHAAEDAKLKELVEARNQADAMVHGTKKLLDEQGEGVEAAEKEAIEKAIADLEEAIKGDDKAVIDEKTQALATASQKLAEKAYAQPGAEAGAEQQGSANNADDDIVDAEFEEVNDDKK |
| 743 | sp|Q03MR6|DNAK\_STRTD | MSKIIGIDLGTTNSAVAVLEGTEPKIIANPEGNRTTPSVVSFKNGEIIVGDAAKRQAVTNPDTVISIKSKMGTSEKVSANGKEYTPQEISAMILQYLKGYAEEYLGEKVTKAVITVPAYFNDAQRQATKDAGKIAGLEVERIVNEPTAAALAYGLDKTDKEEKILVFDLGGGTFDVSILELGDGVFDVLATAGDNKLGGDDFDQKIIDYMVEEFKKENGIDLSTDKMALQRLKDAAEKAKKDLSGVTSTQISLPFITAGEAGPLHLEMTLTRAKFDDLTRDLVERTKTPVRQALSDAGLSLSDIDEVILVGGSTRIPAVVEAVKAETGKEPNKSVNPDEVVAMGAAIQGGVISGDVKDVVLLDVTPLSLGIETMGGVFTKLIERNTTIPTSKSQVFSTAADNQPAVDIHVLQGERPMAADNKTLGRFQLTDIPAAPRGVPQIEVTFDIDKNGIVSVKAKDLGTQKEQTIVIQSNSGLTDEEIERMMKDAEANAEADAKRKAEVELRNEVDQAIFATEKTIKETEGKGFDTERDAAQSALDELKKAQESGNLDDMKAKLEALNEKAQALAVKLYEQAAAAQQAQAGAEGAQATDNSGDDVVDGEFTEK |
| 744 | sp|Q87RX3|DNAK\_VIBPA | MGKIIGIDLGTTNSCVAVLDGDKPRVIENAEGERTTASVIAYTDGETLVGQPAKRQAVTNPTNTLFAIKRLIGRRFEDEEVQRDIEIMPYKIVKADNGDAWVEAKGQKMAAPQVSAEVLKKMKKTAEDFLGEEVTGAVITVPAYFNDAQRQATKDAGRIAGLEVKRIINEPTAAALAYGLDKKGGDRTIAVYDLGGGTFDISIIEIDEVEGEKTFEVLATNGDTHLGGEDFDNRLINYLVDEFKKEQGIDLKNDPLAMQRVKEAAEKAKIELSSTSQTDVNLPYVTADATGPKHMNIKVTRAKLESLVEDLVQRSLEPLKVALADADLSVNDITDVILVGGQTRMPMVQAKVAEFFGKEARRDVNPDEAVAMGAAVQGGVLAGEVKDVLLLDVTPLSLGIETMGGVMTKLVEKNTTIPTKANQVFSTAEDNQSAVTIHVLQGERKQAMYNKSLGQFNLEGIQPAPRGMPQIEVTFDLDADGILHVSAKDKQTGKEQKITIQASGGLSDDEIEKMVQEAEANKEADKKFEELATARNQADQMIHGTRKQMEEAGDALPAEEKEKIETAISELEEARKGEDKEAIDAKVQALMTAAQKLMEIAQQQAQAQQAQGADAGAQSKDDDVVDAEFEEVKDDKK |
| 745 | sp|Q6GGC0|DNAK\_STAAR | MSKIIGIDLGTTNSCVTVLEGDEPKVIQNPEGSRTTPSVVAFKNGETQVGEVAKRQAITNPNTVQSIKRHMGTDYKVDIEGKSYTPQEISAMILQNLKNTAESYLGEKVDKAVITVPAYFNDAERQATKDAGKIAGLEVERIINEPTAAALAYGLDKTDKDEKVLVFDLGGGTFDVSILELGDGVFEVLSTAGDNKLGGDDFDQVIIDYLVAEFKKENGVDLSQDKMALQRLKDAAEKAKKDLSGVSQTQISLPFISAGENGPLHLEVNLTRSKFEELSDSLIRRTMEPTRQAMKDAGLTNSDIDEVILVGGSTRIPAVQEAVKKEIGKEPNKGVNPDEVVAMGAAIQGGVITGDVKDVVLLDVTPLSLGIEILGGRMNTLIERNTTIPTSKSQIYSTAVDNQPSVDVHVLQGERPMAADNKTLGRFQLTDIPPAERGKPQIEVTFDIDKNGIVNVTAKDLGTNKEQRITIQSSSSLSDEEIDRMVKDAEVNAEADKKRREEVDLRNEADSLVFQVEKTLTDLGENIGEEDKKSAEEKKDALKTALEGQDIEDIKSKKEELEKVIQELSAKVYEQAAQQQQQAQGANAGQNNDSTVEDAEFKEVKDDDKK |
| 746 | sp|Q79VE0|ECTP\_CORGL | MSSNIAITTEPEGKNKKGLKSDPFIFSISVGFIVVFVIATIALGEKARTTFSAIAGWLLENLGWMYIGGVSLVFIFLMGIFASRYGRVKLGDDDDDPEHTLIVWFCMLFAGGVGAVLMFWGVAEPINHAFNVPMANEESMSEAAIVQAFAYTFYHFGIHMWVIMALPGLSLGYFIYKRKLPPRLSSVFSPILGKHIYSTPGKLIDVLAIVGTTFGIAVSVGLGVLQINAGMNKLWSTPQVSWVQLLIILIITAVACISVASGLDKGIKLLSNINIAMAVALMFFILFTGPTLTLLRFLVESFGIYASWMPNLMFWTDSFQDNPGWQGKWTVFYWAWTICWSPYVGMFVARISRGRTVREFIGGVLALPAIFGVVWFSIFGRAGIEVELSNPGFLTQPTVVEGDVPAALFNVLQEYPLTGIVSAFALVIIVIFFITSIDSAALVNDMFATGAENQTPTSYRVMWACTIGAVAGSLLIISPSSGIATLQEVVIIVAFPFFLVQFVMMFSLLKGMSEDAAAVRRVQTRQWEKTDTPEKLEEHSSQPAPGYDDEGNPLPMPALEHDEDGNIVIPGNVVIEGDLGVVGDVVDDPEEAQEMGSRFKIVEQTRPQSRDEYDI |
| 747 | sp|P0CU49|CAHS7\_HYPDU | MFLARNVSRVALRSASLSPAAIPQQQHAGVAAVYAVRFASSSGSGRPADNWAESQKEKAKAGLKDAQAEVGKVAREVKDKAAGGIEQAKDAVKQGANDLKRSGSRTFENAKDDIQAKAQHAKSDLKGAKHQAEGVVENVKEAAENAWEKTKDVAENLKDKVQSPGGLADKAANAWETVKDRAQDAASEVKHKAGDLKDKAQQVIHDATTQSGDNRKQDQQQRRDSQGSQSGQNSRSRN |
| 748 | sp|Q93ZS9|C3H47\_ARATH | MCSGPKSNLCSSRTLTEIESRQKEEETMLLLEFAACDDLDSFKREVEEKGLDLDESGLWYCRRVGSKKMGLEERTPLMVAAMYGSIKVLTFIVSTGKSDVNRACGEERVTPLHCAVAGCSVNMIEVINVLLDASALVNSVDANGNQPLDVFVRVSRFVASPRRKAVELLLRGGGVGGLIDEAVEEEIKIVSKYPADASLPDINEGVYGSDEFRMYSFKVKPCSRAYSHDWTECAFVHPGENARRRDPRKYPYTCVPCPEFRKGSCPKGDSCEYAHGVFESWLHPAQYKTRLCKDETGCARKVCFFAHKREEMRPVNASTGSAVAQSPFSSLEMMPGLSPLAYSSGVSTPPVSPMANGVPSSPRNGGSWQNRVNTLTPPALQLNGGSRLKSTLSARDIDMEMEMELRLRGFGNNVEETFGSYVSSPSRNSQMGQNMNQHYPSSPVRQPPSQHGFESSAAAAVAVMKARSTAFAKRSLSFKPATQAAPQSNLSDWGSPNGKLEWGMKGEELNKMRRSVSFGIHGNNNNNAARDYRDEPDVSWVNSLVKDSTVVSERSFGMNERVRIMSWAEQMYREKEQTVV |
| 749 | sp|P0C0N3|CH10\_STAES | MLKPLGNRVIIEKKEQEQTTKSGIVLTDSAKEKSNEGVIIAVGQGRLLDNGTQVAPQVSEGDTIVFQQYAGTEVKRGDKTYLILNEEDILAIIE |
| 750 | sp|Q5AWS6|CDC48\_EMENI | MSSEEHKKKLLYGVHFLQFLDASGAEKKEELDTSTAILKKKKKPNSLIVTDAVNDDNSTISLSNNTMDTLGLFRGDTVTVRGKKRKETVLIVLADDDLDDGSARINRVVRHNLRVKHGDIITVHPCPDIKYAKRIAVLPIADTVEGLTGSLFDVYLAPYFRDGYRPVKQGDLFTVRGGMRQVEFKVVEVDPPEFGIVAPDTIIHSEGEPIQREDEENNLNEVGYDDIGGCRKQMAQIRELVELPLRHPQLFKSIGIKPPRGILMYGPPGTGKTLMARAVANETGAFFFLINGPEIMSKMAGESESNLRKAFEEAEKNSPAIIFIDEIDSIAPKREKTNGEVERRVVSQLLTLMDGMKARSNVVVMAATNRPNSIDPALRRFGRFDREVDIGIPDPTGRLEILSIHTKNMKLGEDVDLETIAAETHGYVGSDLASLCSEAAMQQIREKMDLIDLDEDTIDAEVLDSLGVTMENFRYALGVSNPSALREVAVVEVPNVRWEDIGGLEEVKRELIESVQYPVDHPEKFQKFGLSPSRGVLFYGPPGTGKTMLAKAVANECAANFISVKGPELLSMWFGESESNIRDIFDKARAAAPCVVFLDELDSIAKSRGGSVGDAGGASDRVVNQLLTEMDGMTSKKNVFVIGATNRPEQLDAALVRPGRLDTLVYVPLPDQASREGILKAQLRKTPVASDVDIEFIASKTHGFSGADLGFVTQRAVKLAIKESISAEIERQKQREAAGEDVKMEDEEEGEDPVPELTRAHFEEAMKTARRSVSDVEIRRYEAFAQSLKNSGGSSFFRFPSANEAADSGNTFGEAGNDDSLYD |
| 751 | sp|P0A012|CH10\_STAAM | MLKPIGNRVIIEKKEQEQTTKSGIVLTDSAKEKSNEGVIVAVGTGRLLNDGTRVTPEVKEGDRVVFQQYAGTEVKRDNETYLVLNEEDILAVIE |
| 752 | sp|O65282|CH20\_ARATH | MAATQLTASPVTMSARSLASLDGLRASSVKFSSLKPGTLRQSQFRRLVVKAASVVAPKYTSIKPLGDRVLVKIKEAEEKTLGGILLPSTAQSKPQGGEVVAVGEGRTIGKNKIDITVPTGAQIIYSKYAGTEVEFNDVKHLILKEDDIVGILETEDIKDLKPLNDRVFIKVAEAEEKTAGGLLLTETTKEKPSIGTVIAVGPGSLDEEGKITPLPVSTGSTVLYSKYAGNDFKGKDGSNYIALRASDVMAILS |
| 753 | sp|A9YUB1|CHRD1\_PIG | MALLCYNRGCGQRFDPETNSDDACTYHPGVPVFHDALKGWSCCKRRTTDFSDFLSIAGCTKGRHNSEKPPEPVKPEVKTTEKKELSELKPRFQEHIIQAPKPVEAIKRPSPDEPMTNLELKISASLKQALDKLKLSSGNEENKKEEDSDEIKVGTSCKNGGCSKTYQGPQSLEEVCVYHSGVPIFHEGMKYWSCCRRKTSDFNTFLAQEGCTTGKHTWTKKDAGKKVVPCRHDWHQTGGEVTISVYAKNSLPELSQVVANSTLLNVHIVFEGEKEFHQNVKLWGVIDVKRSYVTMTATKIEITMRKAEPMQWASLELPAAKNQEKQKEDTAE |
| 754 | sp|P80502|CH60\_SOLTU | AAKDIKFGVEARGLMLQGVEQLADAVKVTMGPKGRNVVIE |
| 755 | sp|Q6ZIU9|CDPKL\_ORYSJ | MGGCYSAYASSRKLRGRISKISLVIPDPVPDAEAASPRKDGVDGDGDDVRGGGGGCDDGGDVVAIATTTADEFARRYVLGKELGRGEFGVTRRCSDAATGEALACKTIRKHRRLAPPRVTAAKAAAAHGEDVKREVAIMRRMSSASSSRGGGAASSAAVVRLREACEDAADGSVHLVMELCEGGELFDRIVARGHYSERAAANIFRTIVDVVQLCHSNGVIHRDLKPENFLFANKSEDSPLKVIDFGLSVFFKPGDRFTEVVGSAYYMAPEVLRRSYGPEVDVWSAGVILYILLCGVPPFWGDNDEKIAQAILRGAIDFNREPLPRVSANAKDLVRRMLDPNPSTRLTAKQVLEHPWLKNADTAPNVSLGDAVRARLQQFSAMNKFKKKALGVVARNLPGEEVDKYVQMFHHMDKDKNGHLSLDELLEGLHINGQPVPEPEIRMLLEAADTDGNGTLDCDEFVTVSVHLKKMSNDEYLAAAFNYFDKDGSGFIELDELREEVGPNEQAILEILRDVDTDKDGRISYQEFELMMKSGADWRNASRHFSRANFSTLSRRLCKDTLTP |
| 756 | sp|Q9LTB8|CNBL9\_ARATH | MGCFHSTAAREFPDHENPVKLASETAFSVSEVEALYELFKSISSSVVDDGLINKEEFQLALFKNRKKENLFANRIFDLFDVKRKGVIDFGDFVRSLNVFHPNASLEEKTDFTFRLYDMDCTGFIERQEVKQMLIALLCESEMKLADDTIEMILDQTFEDADVDRDGKIDKTEWSNFVIKNPSLLKIMTLPYLRDITTTFPSFVFNSEVDEIAT |
| 757 | sp|Q82EU9|CLPB1\_STRAW | MDAELTNRSRDAINAATNRAVSEGHPDLTPAHLLLALLGGKDNENITDLLAAVDADQAAVRAGTERVLAKLPSVTGSTVAPPQPNRELLAVVADASQRAQDLGDDFLSTEHLLIGIAANGGAAGDVLSQQGASAKKLLEAFQKTRGGRRVTTPDPEGQYKALEKFGTDFTAAARDGKLDPVIGRDQEIRRVVQVLSRRTKNNPVLIGEPGVGKTAVVEGLAQRIVKGDVPESLKNKRLVALDLGAMVAGAKYRGEFEERLKTVLAEIKDSDGQIITFIDELHTVVGAGAGGDSAMDAGNMLKPMLARGELRMVGATTLDEYRERIEKDPALERRFQQVLVAEPSVEDTIAILRGLKGRYEAHHKVQIADSALVAAAALSDRYITSRFLPDKAIDLVDEAASRLRMEIDSSPVEIDELQRQVDRLKMEELAIGKETDAASRERLEKLRRDLADKEEELRGLTARWEKEKQSLNRVGELKEKLDELRGQAERAQRDGDFDTASKLLYGEIPALERDLEEASEAEEEAARDTMVKEEVGPDDIADVVGSWTGIPAGRLLEGETQKLLRMEEELGHRLIGQSEAVQAVSDAVRRTRAGIADPDRPTGSFLFLGPTGVGKTELAKALADFLFDDERAMVRIDMSEYGEKHTVARLVGAPPGYVGYEEGGQLTEAVRRRPYSVVLLDEVEKAHPEVFDILLQVLDDGRLTDGQGRTVDFRNTILILTSNLGSQFLSGHGPAEPQTSEEEKKRQVLEVVRASFKPEFLNRLDDLVVFSALNRQELERIAKLQIDRLAQRLAQRRLRLEVTDAALAWLAEEGNDPAYGARPLRRLVQTAIGDRLAKEILAGEVKDGDTVRVDAFGEGLIVGPATGKTL |
| 758 | sp|Q8XKG8|CLPB\_CLOPE | MNADKMTLRVQQSLNDAYEIAVKYNNQQLDIIHLFSALVNQKDGLIPNIFEKMGVNIDSLKRDIHVQIDRMPKVLGEAAQSSGVTATRRINEVLIKAEEISKQFEDSYISVEHVMLAMIDIDKNGAVGEILRKNNITKDGFLKVLNEVRGSQRVDSQDPEGTYEALDKYGTNLIELVKQHKLDPVIGRDEEIRRAVRILSRKTKNNPILIGEPGVGKTAIVEGLAERIVRGDVPEGLKDKVIISLDMGALIAGAKYRGEFEERLKAVLKEVQSSEGKILLFIDEIHTIVGAGKTDGAMDAGNLIKPMLARGELHCIGATTFDEYRQYIEKDKALERRFQPVIVEEPTVEETVSILRGLKERFEIHHGIRIHDSAIVAAAKLSHRYIQDRYLPDKAIDLIDEAGAMIRSEIDSLPTELDIIRRKILMLETEKEALSKENDDASKERLVALEKELAELQDKNDEMTIKYEKEKSHISAVRDLKAELDEARGLAEKYEREYDLNKVAELKYGKIPELERKIKEQEASMEKDNENALLKEEVTENEISEIISKWTGIPVTKLVESEREKLLRLEEELRERVIGQDEATTAVANAVIRARAGLKDERKPIGSFIFLGPTGVGKTELAKTLARNLFDSEDNIVRIDMSEYMEKHAVSRLIGPPPGYVGYEEGGQLTEAVRRNPYSVILFDEIEKAHDDVFNLFLQILDDGRLTDNKGKTVDFKNTIIIMTSNIGSGYLLENKSGEGIEDDIRENVMNEMKLRFKPEFLNRVDDIIMFRPLSSEGIKKIIDIFLRDVENRLRERNITLEVTDRAKEILAEEGYDPVYGARPLKRYISNVLETEIAKKIIAGEIYDGSVALIDGVDGKIIVSRK |
| 759 | sp|P75247|CLPB\_MYCPN | MDFSFTPTPDKRDFLKEMGRSINDEVLKNKVDPIIGRDNEIRRLIEILSRKNKNNPVLIGEPGVGKTAIVEGFVRRVVNNDVPLNLRDVEIYELSLSGLIAGTQYQGEFEKRVNGILKQVKESNGKIILFIDEIHQIVGLGRNSSSGAMDIANILKPMLARGEIKVIGATTLKEYREYVEKDGALERRFQKILVSEPSQQEALTIMRGLKTRWELFHNLTIFDSALVAAVEMSARYIPDRNLPDKAIDLIDEASAKIKTEMASEPVVIDTLKREIINLETEYAALKQDKENADNKKKQGHLDNLKQQLDELKKKRDSLTAEWKKEKTNFESINKLKKEIEDLQTRLELYQTEGNYEAASKILYYDIPKLKNQLEQAQKKYVDSKHDLFKTEVSENEVAEVVSQATGIPLKKLLETEKEKLLHLGDEIKKRVKGQDAAVETVVNTVMRGRVNLNDPNRPIGSFIFLGSTGVGKTELAKSLAEVLFDNEKAMIRFDMSEYMEKHSVAKLIGAPPGYVGYEQSGLLTEAVRRKPYCVLLFDEIEKAHPDVTNILLQVLDDGTLKDSQGRLVNFKNTMIIMTSNLGSNYIMENKRDLAMEALKKHFRAEFINRIDEIVFFSVLQKTTVLEIITNLLDQLNQRLAKQNLKFTFDPKLNEFIYKSSFDEQFGARPIKRFIDRQIATLIAKQILEGIITKDVSYNVIVEKDKVAIVANKVKS |
| 760 | sp|Q52287|CSPA\_PHOPO | EKGFGFITQDNGGADVFVHFRAIASEGFKTLAEGQKVSFEVEQGQK |
| 761 | sp|P42016|CSPB\_GEOSE | MQRGKVKWFNNEKGYGFIEVEGGSDVFVHFTAIQGEGFKSLEEGQEVSFEIVQGNRGPQAANVVKL |
| 762 | sp|Q6MIV0|CLPB\_BDEBA | MTRKSQEAMQAAARLAERKSSPSVEPEHLLMELVQQTEGIVPRILDKLNVPQAQFLAELRTKIDKFPQVTGGGQKMFASPRLEKIFQAAETEAQEWGDSYISTEHFFMAMLKGGDSELNGLFKKNKVTAEAARTALTEIRGKQKVTDDDPENKYEVLNKYARDLTALAAEGKLDPVVGRDEEIRRVVQVLSRRTKNNPVLIGEPGVGKTAIAEGLALRIIKQDVPDNLIGKKLMSLDMGALIAGAKYRGEFEDRLKAVIKEVTSSDGQIILFIDELHTLVGAGKTEGAMDAGQLLKPALARGELRCIGATTLDEYRKYIEKDAALERRFQTVMVEEPSVEDAITILRGLKEKYEVHHGIRITDAALVSAVKLSHRYITNRFLPDKAIDLIDEAASKLGIETRSVPEEVDKIERELMQLRIEKEALKKEKDESARERLAVIDKEITELNAKNQLLREQWEFEKGGIEGIKKLKADIEDLKVAVAKAEREGDLGKAAELKYGKLPEAEKKLKALEERSKEGAKSSSENRMLKEEVGPEDVAEVVAKWTGIPVSKMLESESQKLLHMEDSLKHRVVGQDHALTIVADAIRRARAEISDPNRPIGTFMFLGPTGVGKTETVKALAEFLFDDEQAVVRIDMSEYMEKHAVSRLIGAPPGYVGYEEGGQLTESVRRRPYSVVLLDEVEKAHPDVFNILLQVLDDGRLTDGQGRTVDFKNTVLIMTSNVGSQSILDPGMSENQKREAVNEALRERFRPEFLNRIDEIVMFKSLGEAQISGIVKVQLDLVAQRLRAKKIGIDFNQEAIDFLAKKGYDPIYGARPLKRVIQTELLNPLSKEIISGKVKAGDTIHVKANGSTLTF |
| 763 | sp|Q6GEZ3|CSHA\_STAAR | MQNFKELGISDNTVQSLESMGFKEPTPIQKDSIPYALQGIDILGQAQTGTGKTGAFGIPLIEKVVGKQGVQSLILAPTRELAMQVAEQLREFSRGQGVQVVTVFGGMPIERQIKALKKGPQIVVGTPGRVIDHLNRRTLKTDGIHTLILDEADEMMNMGFIDDMRFIMDKIPAVQRQTMLFSATMPKAIQALVQQFMKSPKIIKTMNNEMSDPQIEEFYTIVKELEKFDTFTNFLDVHQPELAIVFGRTKRRVDELTSALISKGYKAEGLHGDITQAKRLEVLKKFKNDQINILVATDVAARGLDISGVSHVYNFDIPQDTESYTHRIGRTGRAGKEGIAVTFVNPIEMDYIRQIEDANGRKMSALRPPHRKEVLQAREDDIKEKVENWMSKESESRLKRISTELLNEYNDVDLVAALLQELIEANDEVEVQLTFEKPLSRKGRNGKPSGSRNRNSKRGNPKFDSKSKRSKGYSSKKKSTKKFDRKEKSSGGSRPMKGRTFADHQK |
| 764 | sp|Q0AIY1|DNAK\_NITEC | MAKIIGIDLGTTNSCVAVMENNKPKVIENAEGTRTTPSIVAYAEDNEVLVGASAKRQAVTNPENTLFAIKRLIGRKFDEEVVQKDISVTPYKIVRADNNDAWIEVRGRKIAPPEVSAQVLMKMKKTAEDYLGESVTEAVITVPAYFNDSQRQATKDAGRIAGLEVKRIINEPTAAALAFGMDKKEGDRKIAVYDLGGGTFDISIIEIAEIEGEHQFEVLATNGDTFLGGEDFDSSVISYLVEEFRKESGIDLKKDMLALQRLKDAAEKAKIELSSSQQTEVNLPYITADASGPKHLAVKITRAKLESLVEELIERTAGPCRTALKDAGLSVSDIDDVILVGGQTRMPKVQDKVKEIFGKEPRKDVNPDEAVAIGAAIQGGVLQGDVKDVLLLDVTPLSLGIETLGGVMTKLIQKNTTIPTKAQQIFSTAEDSQTAVTIHVLQGEREMASGNKSLGQFNLTDIPPAQRGMPQIEVTFDIDANGILHVSAKDKATGKENKIKIQASSGLSEDEIQKMVKDAETHAEEDKKALELVNSRNQCDAMIHSVKKSLTEYGDKLEADEKSKIEAALKDAEEALKSGDKEAIDAKTQVLTEASHKLAEKMYAQEQAQAGQQAGPGAGSASAGQSGEKPVEGEVVDAEFEEVKDKK |
| 765 | sp|B5RM75|DNAK\_BORDL | MGKIIGIDLGTTNSCVAIMEHGKPVVIQNSEGGRTTPSIVAYTNKGERLVGQVAKNQMVTNPENTIYSIKRFMGRRFEEVASEIKMVPYKVEKGQNGDARVNISNIKKQMSPPEISAATLTKMKETAEAYLGEKVTEAVITVPAYFNDAQRQATKDAGKIAGLDVKRIVNEPTAAALAYGIEKKHEEIVAVYDLGGGTFDISILELGDGVFEVKSTNGDTHLGGDNFDDEIIKYLITEFKKDSAIDLSNDKMALQRLKEAAEKAKIELSGAQEASINLPFITADANGPKHLQYTLTRAKFEQMVDHLVQKTKEPCLKAIKDAGLKASDINEVILVGGSTRIPAIQKIVKEIFGQEPNKGVNPDEAVAIGAAIQGGILTGEAKDMVLLDVTPLSLGIETLGGVMTKLIERNTTIPTKKSQVFSTAADNQTSVDIKVLQGEREMASQNRVLGNFILDGIPAAPRGVPQIEVSFDIDANGIVHVSAKDMGTGKEQKIRIESSSGLSEEEIERMVKDAESHAEEDKKLKEGIEAKNIANSLIYQTEKSLKEYGEKITNQDKEAIENKIKELKDALEGSDISLLKSKTEELQQASYKIAEMMYKDAQASSPDQNNAQNNAGSESKEADYEVVDEDKK |
| 766 | sp|A7H484|DNAK\_CAMJD | MSKVIGIDLGTTNSCVAVYERGESKVIPNKEGKNTTPSVVAFTDKGEVLVGDSAKRQAVTNPEKTIYSIKRIMGLMINEDAAKEAKTRLPYHITERNGACAIEIAGKIYTPQEISAKVLMKLKEDAEAFLGESVVDAVITVPAYFNDAQRKATKEAGTIAGLNVLRIINEPTSAALAYGLDKKDSEKIVVYDLGGGTFDVTVLETGDNVVEVLATGGNAFLGGDDFDNKLIDFLANEFKDETGIDLKNDVMALQRLKEAAENAKKELSSANETEINLPFITADASGPKHLVKKLTRAKFEGMIDSLVAETITKINEVVSDAGLKKDEIKEVVMVGGSTRVPLVQEEVKKTFNKDLNKSVNPDEVVAIGAAIQGAVIKGDVKDVLLLDVTPLSLGIETLGGVMTKIIEKGTTIPTKKEQVFSTAEDNQSAVTINVLQGEREFSRDNKSLGNFNLEGIPPAPRGMPQIEVTFDIDANGILTVSAKDKATGKAQEIKITGSSGLSEEEINNMVKDAELHKEEDKKRKEAVDVRNAADSLAHQVEKSLSELGEKVATADKENIQKALDDLRETLKNQNASKEEIESKMKALSEVSHKLAENMYKKDEPNTANDKKKKDDDVIDAEVE |
| 767 | sp|A7ZVV7|DNAK\_ECOHS | MGKIIGIDLGTTNSCVAIMDGTTPRVLENAEGDRTTPSIIAYTQDGETLVGQPAKRQAVTNPQNTLFAIKRLIGRRFQDEEVQRDVSIMPFKIIAADNGDAWVEVKGQKMAPPQISAEVLKKMKKTAEDYLGEPVTEAVITVPAYFNDAQRQATKDAGRIAGLEVKRIINEPTAAALAYGLDKGTGNRTIAVYDLGGGTFDISIIEIDEVDGEKTFEVLATNGDTHLGGEDFDSRLINYLVEEFKKDQGIDLRNDPLAMQRLKEAAEKAKIELSSAQQTDVNLPYITADATGPKHMNIKVTRAKLESLVEDLVNRSIEPLKVALQDAGLSVSDIDDVILVGGQTRMPMVQKKVAEFFGKEPRKDVNPDEAVAIGAAVQGGVLTGDVKDVLLLDVTPLSLGIETMGGVMTTLIAKNTTIPTKHSQVFSTAEDNQSAVTIHVLQGERKRAADNKSLGQFNLDGINPAPRGMPQIEVTFDIDADGILHVSAKDKNSGKEQKITIKASSGLNEDEIQKMVRDAEANAEADRKFEELVQTRNQGDHLLHSTRKQVEEAGDKLPADDKTAIESALTALETALKGEDKASIEAKMQELAQVSQKLMEIAQQQHAQQQTAGADASANNAKDDDVVDAEFEEVKDKK |
| 768 | sp|Q7WGI5|DNAJ\_BORBR | MAKRDYYEVLGVAKNASDEDLKKAYRKLAMKYHPDRNPDSKEAEEKFKEAKEAYEVLGDEQKRAAYDRYGHAGVDPNAAGMGGGMGGGFADAFGDIFGEIFGAGRRGGGGPQVYRGADLKYALEITLEQAASGFDTEIRVPSWENCDTCHGSGAKAGTSPKTCRTCGGSGAVRMQQGFFSVQQTCPTCHGTGKEITDPCPSCDGVGRTRRNKTLQVKIPAGIDDGMRIRSSGNGEPGINGGPPGDLYVEIHIKQHKIFQRDGDDLHCELTIPFTTAALGGELQVPTLGGKAEISIPEGTQSGKTFRLRAKGIRGVRGSYPGDLYCHVVVETPVRLSDEQKAILRQFEASLNDGGDRHSPQSKSWTDRVKEFFS |
| 769 | sp|Q8FNF5|DNAJ1\_COREF | MARDYYGILGVDRNATDSEIKKAYRKLARKYHPDVNPSEEAAEKFREASVAHEVLTDPDKRRIVDMGGDPMEQGGGAGHPGGFGSGGLGDIFDAFFGGGAGSRGPRSRVQPGSDTLWRTSITLEEAFTGVKKDLTLDTAVLCSKCHGSGSASNAKPKTCGTCHGSGEIQEVQRSFLGNVMTSRPCHTCNGTGEVIPDPCDECAGDGRVRARRDIVADIPAGIQSGMRIRMAGQGEVGAGGGPAGDLYVEVMVRPHAVFTRDGDDLHASIRVPMIDAALGSELEVESLTGEEITVVIPAGTQPNQVITLEGEGMPRLRAEGRGDLMAHVDLFVPTEIDDRTRELLEQIRDYRRDNSSVHREGEEHGGLFDKLKSKFRNR |
| 770 | sp|Q9JVQ9|DNAK\_NEIMA | MAKVIGIDLGTTNSCLAISENGQTKVIENAEGARTTPSVIAYLDGGEILVGAPAKRQAVTNAKNTIYAAKRLIGHKFEDKEVQRDIESMPFEIIKANNGDAWVKAQGKELSPPQISAEVLRKMKEAAEAYLGEKVTEAVITVPAYFNDSQRQATKDAGRIAGLDVKRIINEPTAAALAFGMDKGDNKDRKVAVYDLGGGTFDISIIEIANLDGDKQFEVLATNGDTFLGGEDFDQRLIDYIIDEFKKEQGIDLKQDVMALQRLKEAAEKAKIELSSGQQTEINLPYITMDATGPKHLAMKITRAKFESLVEDLIARSIEPCRTALKDAGLSTGDIDDVILVGGQSRMPKVQEAVRDFFGKEPRKDVNPDEAVAVGAAIQGEVLSGGRSDVLLLDVTPLSLGIETMGGVMTKLIQKNTTIPTKASQVFSTAEDNQSAVTIHVLQGERERASANKSLGQFNLGDIAPAPRGMPQIEVTFDIDANGILHVSAKDKGTGKAANITIQGSSGLSEEEIERMVKDAEANAEEDKKLTELVASRNQAEALIHSVKKSLADYGDKLDAAEKEKIEAALKEAEEAVKGDDKTAIDAKAEALGTASQKLGEMVYAQAQAEAQAGEGAQAESSAKKDDDIVDADFEEVKDDKK |
| 771 | sp|Q6F150|DNAJ\_MESFL | MAKRDYYEVLGVSKTSTEQEIKSAYRKLAKKYHPDMNKESGAEEKFKEVNEAASVLLDADKKAKYDQFGHAAFDGSSGFGGSGFGGFEDFFSNMGGGMDFGDIFSDLFGGGRSGRSSRRGPSKGQDIGLEATLTFKELVFGVNKKTILNLVKTCTKCDGVGAENPSDVHICTKCNGAGQIIVNKQMGPFQVQNQVTCDKCNGVGKEFKSKCKNCHGKGVESKREEVEIPLPKGLWPGQQFVMRGKGHASLEGGIPGDLYITIGIVKSDVFELIPNSNDLIMNYNISYLDAILGNEVIIKTLDGPVRLKIPKGVYSGQLIKVHDKGLYKNQTSDKRGDLLIKISISIPTSVSKEEKKILKELEQLSNFEPKNIID |
| 772 | sp|A1KSG3|DNAK\_NEIMF | MAKVIGIDLGTTNSCLAISENGQTKVIENAEGARTTPSVIAYLDGGEILVGAPAKRQAVTNAKNTIYAAKRLIGHKFEDKEVQRDIESMPFEIIKANNGDAWVKAQGKELSPPQISAEVLRKMKEAAEAYLGEKVTEAVITVPAYFNDSQRQATKDAGRIAGLDVKRIINEPTAAALAFGMDKGDNKDRKVAVYDLGGGTFDISIIEIANLDGDKQFEVLATNGDTFLGGEDFDQRLIDHIIAEFKKEQGIDLKQDVMALQRLKEAAEKAKIELSSGQQTEINLPYITMDATGPKHLAMKITRAKFESLVEDLIARSIEPCRTALKDAGLSTSDIDDVILVGGQSRMPKVQEAVRDFFGKEPRKDVNPDEAVAVGAAIQGEVLSGGRSDVLLLDVTPLSLGIETMGGVMTKLIQKNTTIPTKASQVFSTAEDNQSAVTIHVLQGERERASANKSLGQFNLGDIAPAPRGMPQIEVTFDIDANGILHVSAKDKGTGKAANITIQGSSGLSEEEIERMVKDAEANAEEDKKLTELVASRNQAEALIHSVKKSLADYGDKLDAAEKEKIEAALKEAEEAVKGDDKAAIDAKTEALGAASQKLGEMVYAQAQAEAQAGESEQANASAKKDDDVVDADFEEVKDDKK |
| 773 | sp|B4S9D0|DNAJ\_PROA2 | MKRDYYEVLGVGRSATKDEIKKAYRKLAMKYHPDKNPDNSEAEEKFKEANEAYEVLSNDDKRRRYDQFGHAGVGSSASSQGGPFGGGGTGDLGDIFSAFNDMFGGGARGGGSPFGFEDVFSGGGGRRSRSAGVSGSDLKIRLKLSLEEIAKGVEKTLKIKKQVACDVCNGTGSKTGELETCPTCQGTGEVRQASKTMFGQFVNIAACPTCGGEGRVVKERCTACHGEGIKQGETTVKVNIPAGVEDGNYLTLRGQGNAGPRGGMNGDLIVVIEEVEHKIFARRGDDVVYNLTLSYADMVLGTKVDIPTLEGRVKMTVPPATQPNTVLRISAKGIGHLKAPGRGDHLVRVNVFVPKDPSHQDKELLKELNKSVHMVPDEKKEHEKGFYEKVKDIFS |
| 774 | sp|B1ILM3|DNAK\_CLOBK | MAKIIGIDLGTTNSCVSVMEGGEPVVIPNAEGSRTTPSVVSFQANGERLIGQVAKRQAITNPEKTIISIKRYMGTDHKVNIDSTEYTPQQISAMVLQKLKADAEAYLGEKVTQAVITVPAYFNDSQRQATKDAGKIAGLEVLRIINEPTAASLAYGLDKMDTNEKILVYDLGGGTFDVSILELGDGVFEVKATNGDTKLGGDDFDQKLIDYIAETFKAENGIDLRNDKMAIQRLKEAAEKAKIELSSATQTNINLPFITADATGPKHIDMNLTRAKFNELTHDLVQRTLEPIKKSLEGSGYAMSDIDKIIMVGGSTRIPAVQDAVKDFTGKELSKGVNPDEVVAMGAAIQAGVLTGEVKDVLLLDVTPLTLGIETFGGVSTTLIEKNTTIPTRKSQVFSTAADGQTSVEIHVVQGERSMAADNKTLGRFTLSGIAPAPRGIPQIEVTFDIDANGIVNVSAKDKGTGKEANITITASTNLTDDEIEKAVNEAKKFEAEDKKRKESIEVKNNADQIVYQTEKTLTDLGDKVSAEDKAQIEEKVKAVKDVKEGEDLEAIKKATEDLTQTFYGISSKIYQQANPEGAQGAGFDPNNMGGANAGNASAENDKKDDNVVDADYKVEDDK |
| 775 | sp|A6T4F4|DNAK\_KLEP7 | MGKIIGIDLGTTNSCVAIMDGTTARVLENAEGDRTTPSIIAYTQDGETLVGQPAKRQAVTNPQNTLFAIKRLIGRRFQDEEVQRDVSIMPYKIVAADNGDAWLDVKGTKTAPPQISAEVLKKMKKTAEDYLGEPVTEAVITVPAYFNDAQRQATKDAGRIAGLEVKRIINEPTAAALAYGLDKEVGNRTIAVYDLGGGTFDISIIEIDEVDGEKTFEVLATNGDTHLGGEDFDTRLINYLVDEFKKDQGIDLRNDPLAMQRLKEAAEKAKIELSSAQQTDVNLPYITADATGPKHMNIKVTRAKLESLVEDLVNRSIEPLKVALQDAGLSVSDINDVILVGGQTRMPMVQKKVAEFFGKEPRKDVNPDEAVAIGAAVQGGVLTGDVKDVLLLDVTPLSLGIETMGGVMTALISKNTTIPTKHSQVFSTAEDNQSAVTIHVLQGERKRASDNKSLGQFNLDGINPAPRGMPQIEVTFDIDADGILHVSAKDKNSGKEQKITIKASSGLNEEEIQKMVREAEANAESDRKFEELVQTRNQGDHLLHSTRKQVEEAGDKLPADDKTAIESALTALESSLKGEDKADIEAKMQALAQASQKLMEIAQQQHAQQQAGSADAQASNAKDDDVVDAEFEEVKDKK |
| 776 | sp|Q16D44|DNAJ\_ROSDO | MAKRDYYEVLGVSKGASSDDIKKGYRRKAKELHPDRNKDDPNAEAQFKEANEAYEVLKDADKKAAYDRYGHAAFEGGMGGGGGGRPGGGFGGGQDFSSAFSDVFDDLFGNFAGGGQRGGGNRASRGSDLRYNLQINLEDAFSGLQKTINVPTSIGCKTCNGSGAEGGSEPSSCPTCSGMGKVRAQQGFFTVERTCPTCSGLGQIIKNPCKSCQGAGRVEKDRALSVNIPAGVETGTRIRLAGEGEAGMRGGPSGDLYIFIEVAEHELFQRDGTNLFCRVPVSMAKAALGGSIEVPTIDGGRGRVQIPSGSQSGRQMRLRGKGMPALRGGSSGDMFIELAVETPVNLTSRQKELLAEFDELSENNNPESSSFFSSVKSFWDSMKG |
| 777 | sp|Q9TLT1|DNAK\_CYACA | MEKIVGIDLGTTNSVIAVMEMGKPAVIPNSEGFRTTPSVVAYAKNGDLLVGQIAKRQAVINPSNTFYSVKRFIGRKFEEINEENRQVTYQVNKDPSGNVKIYCPFKNKDFTPEEISAQVIRKLTEGASKYLGEKITKAVITVPAYFNDSQRQATKDAGKIAGLDVLRIINEPTAASLAYGLDKKNNEKILVFDLGGGTFDVTILEIGDGIFEVLSTSGDTHLGGDDFDKKIVDWLVDEFKKSYNIDLSKDKQALQRLTEAAEKAKIELSSVSQTEINLPFITATSEGPIHFDKSLNRAKFEELVSELIARCKIPVENALKDAKLNKSDINEIVLVGGSTRIPAIQNLVKESLQKDPNQTVNPDEVVAVGAAIQGAVLAGEVKDILLLDVCPLSLGVETLGGVMTKMIPKNTTIPTRKTEIYSTAVDNQTNVEIHVLQGERELAKDNKSLGTFRLDGIPPAPRGVPQIEVTFDIDANGILSVTAKEKTTGKQQSVTITGASTLDKDEIQKIIKEAEINAQEDRKKKENIELKNQAETICYQAQKQLNEFKEKIDKNQYKRIEDLIAKLKQAISSNEYEEIKNLMEAIQKETMEIGKELYSKDSKNTKNSDVIDADFSET |
| 778 | sp|B6IVA5|DNAJ\_RHOCS | MSKRDYYEVLGVQKGASADDLKKAYRKLAMQYHPDRNQGDKAAEQKFKEISEAYDVLKDDQKRAAYDRFGHAAFENGRGGPGAGAAGFDFNFGSGFADIFDEMFGEFMGRGRAGQTSNRGADLRYNLEITLEDAFKGATTTVRVPTSVACESCNGTGAEGGSTPIACPTCNGHGKVRAQQGFFTIERTCPACHGVGRVIKDPCRTCGGQGRVRKEKTLSVNIPAGVEDGTRIRLAGEGEAGLRGGPPGDLYIFLAIAPHRFFQRDGANLQCRVPIPMTTAALGGSVEVPTIDGSRAKIAIPAGTQTGHQFRLKGKGMSVLRSPARGDLYIQVVVETPVNLTKKQQELLREFEKAGQDGLHPESEGFFAKVKELWADLKD |
| 779 | sp|P25685|DNJB1\_HUMAN | MGKDYYQTLGLARGASDEEIKRAYRRQALRYHPDKNKEPGAEEKFKEIAEAYDVLSDPRKREIFDRYGEEGLKGSGPSGGSGGGANGTSFSYTFHGDPHAMFAEFFGGRNPFDTFFGQRNGEEGMDIDDPFSGFPMGMGGFTNVNFGRSRSAQEPARKKQDPPVTHDLRVSLEEIYSGCTKKMKISHKRLNPDGKSIRNEDKILTIEVKKGWKEGTKITFPKEGDQTSNNIPADIVFVLKDKPHNIFKRDGSDVIYPARISLREALCGCTVNVPTLDGRTIPVVFKDVIRPGMRRKVPGEGLPLPKTPEKRGDLIIEFEVIFPERIPQTSRTVLEQVLPI |
| 780 | sp|B1XBE0|DNAJ\_ECODH | MAKQDYYEILGVSKTAEEREIRKAYKRLAMKYHPDRNQGDKEAEAKFKEIKEAYEVLTDSQKRAAYDQYGHAAFEQGGMGGGGFGGGADFSDIFGDVFGDIFGGGRGRQRAARGADLRYNMELTLEEAVRGVTKEIRIPTLEECDVCHGSGAKPGTQPQTCPTCHGSGQVQMRQGFFAVQQTCPHCQGRGTLIKDPCNKCHGHGRVERSKTLSVKIPAGVDTGDRIRLAGEGEAGEHGAPAGDLYVQVQVKQHPIFEREGNNLYCEVPINFAMAALGGEIEVPTLDGRVKLKVPGETQTGKLFRMRGKGVKSVRGGAQGDLLCRVVVETPVGLNERQKQLLQELQESFGGPTGEHNSPRSKSFFDGVKKFFDDLTR |
| 781 | sp|B1AIX8|DNAK\_UREP2 | MAKEIILGIDLGTTNSCVAVIENKKPIVLENPEGKRTVPSVVSFNGDEVLVGDAAKRKQITNPNTISSIKRLMGTKEKVTVLNKDYTPEEISAKILTYIKEYAEKKIGAKVNKAVITVPAYFDDAQRQATKNAGIIAGLSVERIINEPTAAALAYGIDKLDKEQKILVFDLGGGTFDVSVLDMADGTFEVLSTSGDNHLGGDDWDQVIINWLLKSIADEFNIDLSKNKMAMQRLKDAAEKAKIELSGINTTTISLPFIAMDSSGQPINFEKELNRATFDNLTKNLIERLKKPVLDAMKESKLSLVDIDQVLMVGGSTRMPAVQNLVKELTGKEPNHSLNPDEVVAIGAAIQGGVLAGEIDDILLLDVTPLTLSIETMGGVATPLIPRNTKIPVSKSQIFSTAADNQPSVDIRIVQGERSLAADNKLLGNFELSGIEPAPRGVPQIEIKFNIDANGIMSVNAKDLKTQKETSITIKDSQGLSQDEIDKMIKEAEENKEKDAKVKHERELVNRADSLINQLEQVSKTENVPQEQKDVFNKQIEDLTNARDAQDYVKLEAEVKKVEDLLTNAAKFAQQAQQQNPDNQNNNKDDVTEATVTDDSTKK |
| 782 | sp|A6QBG0|DNAK\_SULNB | MGKVLGIDLGTTNSAMAVYTNGEAAIIANKEGKNTTPSIVAFTDKGEVLVGESAKRQAVTNPEKTIYSIKRIMGLMCEEEKANEAKERLPYHIIDRNGACAIEVAGKTYTPQEISAKVLMKMKEDAEAYLGETVTDAVITVPAYFNDAQRKATKEAGTIAGLNVLRIINEPTSAALAYGLDKKEAEQIVVYDLGGGTFDVTALETGDGVVEVLATGGDAFLGGDDFDNRIIDYVADEFKSESGIDIKADVMALQRVKDAAEAAKKELSSATETEINLPFITADASGPKHLVTKITRAKFESLIGDLVAKTIKTIEAVLKDAGLSKNDVKEVVMVGGSTRVPLVQEEVKKFFNKELNKSVNPDEVVALGAAIQGGVLAGDVKDVLLLDVTPLSLGIETLGGVMTKVIEKGTTIPAKKSQIFSTAEDNQPAVSIHVLQGEREFAKDNKSLGMFELRDIPAAPRGVPQIEVTFDIDANGILTVSAVDKGTGKSQEIKITGSSGLSDEEIEKMVQDAEAHKAEDEKRKAVVEAKNQADALIHQTKKSLDDLGENFDANEKAGIEAAIADLETVLKDDNATKEQIDEKVKALTEKSHKLAEAAYAKEQGGQQGAADAGKKADDDDVIDAEVE |
| 783 | sp|Q9FWR4|DHAR1\_ARATH | MALEICVKAAVGAPDHLGDCPFSQRALLTLEEKSLTYKIHLINLSDKPQWFLDISPQGKVPVLKIDDKWVTDSDVIVGILEEKYPDPPLKTPAEFASVGSNIFGTFGTFLKSKDSNDGSEHALLVELEALENHLKSHDGPFIAGERVSAVDLSLAPKLYHLQVALGHFKSWSVPESFPHVHNYMKTLFSLDSFEKTKTEEKYVISGWAPKVNP |
| 784 | sp|P12951|DHN1\_HORVU | MEYQGQHGHATDKVEEYGQPVAGHGGFTGGPTGTHGAAGVGGAQLQATRDGHKTDGVLRRSGSSSSSSSEDDGVGGRRKKGMKEKIKEKLPGGAHKDAAGQQQQTAMAGEYAGTHGTEATGEKKGVMDKIKEKLPGGQH |
| 785 | sp|Q56235|DNAK\_THET8 | MAKAVGIDLGTTNSVIAVLEGGKPVVLENAEGERVTPSVVAFRDGETLVGRMAKRQAVLNPEGTIFEIKRFIGRRFEEVQEEAKRVPYKVVPGPDGGVRVEVKGKLYTPEEISAMILRKLVEDASKKLGEKITKAVITVPAYFNNAQREATANAGRIAGLEVLRIINEPTAAALAYGLDKKGNETVLVFDLGGGTFDVTILEIGEGVFEVKATSGDTHLGGSDMDHAIVNWLAEEFKKEHGVDLKADRQALQRLIEAAEKAKIELSSTLETTISLPFIALDPASKTPLHLEKKLTRAKFEELIQPLLKRLRGPVEQALKDAGLTPAQIDEVILVGGATRVPAVQQVVRELLGKEPNRSVNPDEVVAMGAAIQAGVLMGEVRDVVLLDVTPLSLGVETKGGVMTVLIPRNTTIPTRKCEIFTTAEHNQTAVEIHVLQGERPMAQDNKSLGRFRLEGIPPMPAGVPQIEVCFDIDANGILHVTAKERSTGREASITIQNTTTLSEEEIQRIIEEAKRHAEEDRRRREHAELKNALDSARVQAERVLQERQGAPEARARLEAAIGKAKELVERDAPDPELKAATEELLKAVEEYEKGAQAASGKGPDDVIDADYKPAD |
| 786 | sp|O05714|DNAK\_TRIV2 | MGKVVGIDLGTTNSVVAVMEGGKPVVIANAEGMRTTPSVVGFSKDGERVVGQMARRQTVLNPQNTFFAVKRYIGRRYNELSPESKRVPYTIRKDDVGNIKVACPRLNKEFAAEEISAMVLKKLADDASAYLGAAVTGAVITVPAYFNDSQRQATRDAGRIAGLEVLRILNEPTAASLAYGLDRGDTETILVFDLGGGTFDVSILEVGDGVFEVKATSGDTQLGGNDFDKKIVDWLAEQFLETEGVDLRRDRQALQRLMEAAEKAKIELSAVSITDINLPFITATEDGPKHLETRLTRSQFEGLCADLLGRVRNPVKRALKDAGLRPDDIEEVVLVGGSTRMPMVKQLVRDLIGIEPSENVNPDEVVAMGAAIQAGILAGEFKDVLLLDVTPLSLGLEAIGGVMKKLIPRNTTIPVRRSDIFSTSENNQNSVEIHVVQGEREMAGDNKSLGRFKLYGIPPAPRGIPQIQVAFDIDANGILQVTALDRTTGREQSITIQGASTLSESEVNRMIQEAQKYADVDRERKERVEKRTRSEALILQGERQLREVALEFGMQFARNRRQRIDNISRELKESLKENDDRGIDQAYADLQDALYELNREVRQYYAEDEDDDLFATIKDIFVGDKDKERDLPRDSYRERDSYNNRDYGRDYGRDYGRDSRPSYDSNRPPRKSPRPSYQDNWDDDDDWL |
| 787 | sp|Q91790|DUS1A\_XENLA | MVNMETCAMDCCVLKALLAERAHKCLILDCRSFFSFSSCSIVGSSNVRLSTIVKRRAKGSMGLEHIVPNEEQRCRLVAGMYEAVVLLDERTSELDMLRKDSTMMLAVNALCRDSRGSSIYFLKGGYETFSAQCPEFCTKNSPPVGLSLPLCANNVPGSADSNCTPCGTPLYDQGGPVEILPFLYLGSAYHASRKDMLDTLGITALINVSANCPNHFEGHFQYKSIPVEDSHKADISSWFNEAIDFIDSVKNSGGRVFVHCQAGISRSATICLAYLMRTNRVKLDEAFEFVKQRRSIISPNFSFMGQLLQFESQVLAPSCSAEAGSPTISVLDRGTSTTTVFNFPVSIPVHSGANSLSYLQNPITTSPSC |
| 788 | sp|Q5UCA8|BRYP\_PHYPA | MAEAIIPAAELSIKTLQNIVEGITGVDRKIAIGFKNLTDYTLENLGVYFNSGSSDRSIAYKINAQEALLFSARKSDHTARGTVGTFSYYIQDEDKTVHVMWSVPFDYNLYSNWWNIAVVDGRQPPDSNVHDNLYNGSGGMPYPNKPDQYINNEQKGFHLFGSMTNNGQATIEVELKKA |
| 789 | sp|P54582|BETP\_CORGL | MTTSDPNPKPIVEDAQPEQITATEELAGLLENPTNLEGKLADAEEEIILEGEDTQASLNWSVIVPALVIVLATVVWGIGFKDSFTNFASSALSAVVDNLGWAFILFGTVFVFFIVVIAASKFGTIRLGRIDEAPEFRTVSWISMMFAAGMGIGLMFYGTTEPLTFYRNGVPGHDEHNVGVAMSTTMFHWTLHPWAIYAIVGLAIAYSTFRVGRKQLLSSAFVPLIGEKGAEGWLGKLIDILAIIATVFGTACSLGLGALQIGAGLSAANIIEDPSDWTIVGIVSVLTLAFIFSAISGVGKGIQYLSNANMVLAALLAIFVFVVGPTVSILNLLPGSIGNYLSNFFQMAGRTAMSADGTAGEWLGSWTIFYWAWWISWSPFVGMFLARISRGRSIREFILGVLLVPAGVSTVWFSIFGGTAIVFEQNGESIWGDGAAEEQLFGLLHALPGGQIMGIIAMILLGTFFITSADSASTVMGTMSQHGQLEANKWVTAAWGVATAAIGLTLLLSGGDNALSNLQNVTIVAATPFLFVVIGLMFALVKDLSNDVIYLEYREQQRFNARLARERRVHNEHRKRELAAKRRRERKASGAGKRR |
| 790 | sp|Q9HAW0|BRF2\_HUMAN | MPGRGRCPDCGSTELVEDSHYSQSQLVCSDCGCVVTEGVLTTTFSDEGNLREVTYSRSTGENEQVSRSQQRGLRRVRDLCRVLQLPPTFEDTAVAYYQQAYRHSGIRAARLQKKEVLVGCCVLITCRQHNWPLTMGAICTLLYADLDVFSSTYMQIVKLLGLDVPSLCLAELVKTYCSSFKLFQASPSVPAKYVEDKEKMLSRTMQLVELANETWLVTGRHPLPVITAATFLAWQSLQPADRLSCSLARFCKLANVDLPYPASSRLQELLAVLLRMAEQLAWLRVLRLDKRSVVKHIGDLLQHRQSLVRSAFRDGTAEVETREKEPPGWGQGQGEGEVGNNSLGLPQGKRPASPALLLPPCMLKSPKRICPVPPVSTVTGDENISDSEIEQYLRTPQEVRDFQRAQAARQAATSVPNPP |
| 791 | sp|P0ABD0|BETT\_ECO57 | MTDLSHSREKDKINPVVFYTSAGLILLFSLTTILFRDFSALWIGRTLDWVSKTFGWYYLLAATLYIVFVVCIACSRFGSVKLGPEQSKPEFSLLSWAAMLFAAGIGIDLMFFSVAEPVTQYMQPPEGAGQTIEAARQAMVWTLFHYGLTGWSMYALMGMALGYFSYRYNLPLTIRSALYPIFGKRINGPIGHSVDIAAVIGTIFGIATTLGIGVVQLNYGLSVLFDIPDSMAAKAALIALSVIIATISVTSGVDKGIRVLSELNVALALGLILFVLFMGDTSFLLNALVLNVGDYVNRFMGMTLNSFAFDRPVEWMNNWTLFFWAWWVAWSPFVGLFLARISRGRTIRQFVLGTLIIPFTFTLLWLSVFGNSALYEIIHGGAAFAEEAMVHPERGFYSLLAQYPAFTFSASVATITGLLFYVTSADSGALVLGNFTSQLKDINSDAPGWLRVFWSVAIGLLTLGMLMTNGISALQNTTVIMGLPFSFVIFFVMAGLYKSLKVEDYRRESANRDTAPRPLGLQDRLSWKKRLSRLMNYPGTRYTKQMMETVCYPAMEEVAQELRLRGAYVELKSLPPEEGQQLGHLDLLVHMGEEQNFVYQIWPQQYSVPGFTYRARSGKSTYYRLETFLLEGSQGNDLMDYSKEQVITDILDQYERHLNFIHLHREAPGHSVMFPDA |
| 792 | sp|Q8DG71|CLPB2\_THEEB | MQPTDPTKFTDKAWEAIVKSQDVAREYRSQYLETEHVMIALLREEGLGQVILERSDIDTEWVLKRLMDFARQQPRVPAGSELYCGRSLDALLDEANRLRQEEEDQFISIEHLLLAFVGDRRIGQRLFRALNCDRQQLAATVKAIRGAQKVLDQNPENKYAALEKYGRDLTEAARQGKLDPVIGRDEEIRRVIQVLSRRTKNNPVLIGEPGVGKTAIAEGLAQRIINGDVPESLKNRRLISLDLGSLVAGAKFRGDFEDRLKAVLHEVTHSEGQIVLFIDELHTVVGAGANQNSSMDASNLLKPMLARGELRCIGATTLDEYRKYIEKDAALERRFQQVYIGQPSVEDTISILRGLKDRYEIHHNVKITDSALVAAAMLSDRYISDRYLPDKAIDLVDEAAAKLKMEITTKPAELEALERRLRQLEMERLSLKQEESLPLSQAPLQATRDRLQRIEAEIAQLQPRQQAMQARWQAEKELLERINSLKEEEDQVKLQIEQAERDYNLNKAAQLKYGRLETLQRELEATEAQLLELQAAGGTFLRDQVTEADIAEIVAKWTGIPLQKLMASERQKLLQLEQVLHQRVIGQSDAVAAVAAAIRRARAGMKDPARPIGSFLFMGPTGVGKTELARALAEALFDDENALVRIDMSEYMEKHAVSRMIGAPPGYVGFDSGGQLTEAIRRRPYAVVLFDEVEKAHPEVFNVLLQVLDDGRITDSQGRTVDFRNTVIIMTSNLGSEHILDLAADDSRYEEMRQRVLQSAQKYFRPEFLNRIDDVILFHGLGRTELAQIAQIQLRRVEKLLADQKIHLRLTPAALDHLVAVGFDPVYGARPLKRAIQRELENPLAVKLLEEVFTPGDTILVDLVGSELTFRAVSPAGTGDRDTVSAS |
| 793 | sp|Q9JYQ8|CLPB\_NEIMB | MRYDKLTAKFQQALAEAQSLALAADGSYLEAGFVLKALLDDQNSGAAALLAHAGVNVPQVKQRLQQHLNSLPKVSGQGGDILPSRELQAVLNLMDKAATKRSDAYIASELFLLALVQQNDATGKILKEAGATEQNINAAIDAVRGGQNVNDANAEDQRDALKKYTLDLTQRARDGKLDPVIGRDDEIRRAIQVLQRRTKNNPVLIGEPGVGKTAIVEGLAQRIVNGEVPESLRNKRLLVLDLAALIAGAKYRGEFEERLKGVLNDLAKDDGNTLIFIDEIHTLVGAGKTDGAMDAGNMLKPALARGELHCIGATTLDEYRQYIEKDAALERRFQKVLVGEPSVEDTIAILRGLQERYEIHHGIDITDPAIVAAAELSDRYITDRFLPDKAIDLIDEAASRVKMEKETKPEAMDKIDRRLIQLRMEKAHVEKEKDDASKKRLELIDEEINGLQKEYADLDEIWKAEKAISDGAANIKKQIDEVKIKIEQAKRQGDLALASKLMYEDLEHLEKQRAAAERADTDSTKPANKLLRNNVGAEEIAEVVSRMTGIPVSKMMEGERDKLLKMEEVLHRRVVGQDEAVRAVSDAIRRSRSGLADPNKPYGSFLFLGPTGVGKTELCKALAGFLFDSEDHLIRIDMSEYMEKHAVARLIGAPPGYVGYEEGGYLTEQVRRKPYSVILLDEVEKAHPDVFNILLQVLDDGRLTDGQGRTVDFKNTVIVMTSNIGSQHIQQMGIQDYEAVKEVVMEDVKEHFRPEMINRIDEVVVFHGLDQDNIRNIAKIQLKGLEKRLEKQNLRLAVSDAALDIIAKAGFDPIYGARPLKRAIQSEIENPLAKALLAGNYAPESEIRVEADGDRLKFA |
| 794 | sp|Q82SD8|CLPB\_NITEU | MRFDKFTTKFQQALADAQSMALGQDHPYIEPQHLLLALMQQDDGSITSLLQRAGVNAQPLRQALTQSLKLLPKVEGTGGEINVSRDLANLLNLTDKEAQKRGDQYIASEMFLLAALEDKGETGRLLKQYGATRAALEQAVDSVRGGEKVTDAEAEGSREALKKYTLDLTERARSGKLDPVIGRDDEIRRTIQVLQRRTKNNPVLIGEPGVGKTAIVEGLAQRIVNGEVPETLKNKRVLSLDMAALLAGAKYRGEFEERLKAVLKELAQDEGRTIVFIDELHTMVGAGKAEGAMDAGNMLKPALARGELHCVGATTLDEYRKYVEKDAALERRFQKVLVDEPGVEATIAILRGLQEKYELHHGVEITDPAIVAAAELSHRYITDRFLPDKAIDLIDEAAARIRMEQDSKPEVMDKLDRRLIQLKIEREAVRKEKDDASKKRLALLEEEISKLEREYADLDEILKAEKSRAKGSQEIKEELDKLRREEEAARRKGDLQRASELLYGRIPQLEAQLAEQLHHAESAEEAVQPKLFRTQVGAEEIAEVVSRATGIPVSKMMQGEREKLLFMEDKLHERVIGQDEAVRLVSDAIRRSRSGLADPNRPYGSFLFLGPTGVGKTELCKALAGFLFDSEEHLIRVDMSEFMEKHSVARLIGAPPGYVGYEEGGYLTEQVRRKPYSVILLDEVEKAHPDVFNVLLQVLDDGRMTDGQGRTVDFKNTVIVMTSNLGSQMIQQMSGDDYQVIKLAVMGEVKTYFRPEFINRIDEVVVFHALGEAHIKSIARIQLSNLGKRLAQMEMKLVVSEPALTKLAEVGFDPVFGARPLKRAIQAQIENPLAKELLEGHFSAGDTILVEYSNGHMQFTAQR |
| 795 | sp|Q898C7|CLPB\_CLOTE | MDIEKLTLKVQQTINDSQKIAVKYNHQQLEPFHLFAALVFQEDGLIPNILGKMNINIKVLRDEIKRELNEMPKVLGDGAQNSGVYATRSFEEIFIRAESIAKDFKDSYISVEHIMLSLMQGRSTSIKKILDKFNIRKDKFLNVLQQVRGNQRVDTQDPEGTYEALVKYGRNLIEDAKKHKLDPVIGRDEEIRRIVRILSRRTKNNPVLIGDPGVGKTAIIEGLAERIVRGDVPEGLKNKIIFSLDMGALIAGAKFRGEFEERLKAVLKEVENSQGKIILFIDEIHNIVGAGKTEGSMDAGNLIKPMLARGELNCIGATTFDEYRKYIEKDKALERRFQPVIIDEPTVEDTISIIRGLKERFEIHHGIRIHDSAIVAAAKLSQRYITDRYLPDKAIDLIDEAGAMIRTEIDSLPTELDSIKRKIFQMEIEKEALAKEKDSRSKERLEDLEKELSNLKEKDKEMTAKYEKEKEQIINMRNLKQKLDEVKGQLEKAEREYDLNKVAELKYGIIPGIKSQIEEKEILIKENSQGNMLKEEVTENEISKIISHWTGIPVTKLIEGEKDKLLRLEDELKSRVIGQDEAVEAVSNAVLRARAGMKDPQKPIGSFIFLGPTGVGKTELAKTLCKNLFDSEENIIRIDMSEYMEKYSVSRLIGAPPGYVGYEEGGQLTEAVRRKPYSVILFDEIEKAHDDVFNIFLQILDDGRLTDNKGKTVDFKNCIIIMTSNIGSSYLLENKKEDGIDETVKNKVSNALKDRFKPEFLNRLDDIIMFKPLTNREITKIIDIFLQDIENRLKDRNITLIVTENAKELMAKEGYDAIYGARPLKRYIENILETKIAKQIIKGDIYEGCKIGVDIKGEEIIIGKI |
| 796 | sp|P71478|CSP1\_LACPL | MKNGTVKWFNADKGYGFITGEDGNDVFVHFSAIQTDGFKTLEEGQKVTFDEESSDRGPQAANVVPQ |
| 797 | sp|Q89YY3|CLPB\_BACTN | MNFNNFTIKSQEAVQEAVNLVQSRGQQAIEPAHILHGVMKVGENVTNFIFQKLGMNGQQVALVVDKQIESLPKVSGGEPYLSRESNEVLQKATQYSKEMGDEFVSLEHILLALLTVKSTVSTILKDAGMTEKELRNAINELRKGEKVTSQSSEDNYQSLEKYAINLNEAARSGKLDPVIGRDEEIRRVLQILSRRTKNNPILIGEPGTGKTAIVEGLAHRILRGDVPENLKNKQVYSLDMGALVAGAKYKGEFEERLKSVVNEVKKSEGDIILFIDEIHTLVGAGKGEGAMDAANILKPALARGELRSIGATTLDEYQKYFEKDKALERRFQIVQVDEPDTLSTISILRGLKERYENHHHVRIKDDAIIAAVELSSRYITDRFLPDKAIDLMDEAAAKLRMEVDSVPEELDEISRKIKQLEIEREAIKRENDKPKLEIIGKELAELKEVEKSFKAKWQSEKTLMDKIQQNKVEIENLKFEAEKAEREGDYGKVAEIRYGKLQALDKEIEDTQEKLRGMQGDKAMIKEEVDAEDIADVVSRWTGIPVSKMMQSEKDKLLHLEDELHQRVIGQDEAIEAVADAVRRSRAGLQDPKRPIGSFIFLGTTGVGKTELAKALAEFLFDDESMMTRIDMSEYQEKHSVSRLVGAPPGYVGYDEGGQLTEAIRRKPYSVVLFDEIEKAHPDVFNILLQVLDDGRLTDNKGRVVNFKNTIIIMTSNMGSSYIQSQMEKLSGSNKEEVIEETKKEVMNMLKKNIRPEFLNRIDETIMFLPLTETEIRQIVLLQIKGVQKMLAENGVELEMTDAALNFLSQVGYDPEFGARPVKRAIQRYLLNDLSKKLLSQEVDRSKAIIVDSNGDGLVFRN |
| 798 | sp|P0C0F0|CSPA\_STRPY | EKGFGFISTENGQDVFAHFSAIQTNGFKTLEEGQKVAFDVEEGQR |
| 799 | sp|Q93YN1|CRPK1\_ARATH | MGCSWLSCHRREATEVDGEIAAIDNVKIYKYREIRQATDDFSAENKIGEGGFGSVYKGCLKDGKLAAIKVLSAESRQGVKEFLTEINVISEIQHENLVKLYGCCVEGNHRILVYNFLENNSLDKTLLAGGYTRSGIQFDWSSRANICVGVAKGLAFLHEEVRPHIIHRDIKASNILLDKYLSPKISDFGLARLMPPNMTHVSTRVAGTIGYLAPEYAVRGQLTRKADIYSFGVLLMEIVSGRSNKNTRLPTEYQYLLERAWELYERNELVDLVDSGLNGVFDAEEACRYLKIGLLCTQDSPKLRPSMSTVVRLLTGEKDIDYKKISRPGLISDFMDLKVRGPVATKTEQVNRQNYTNPSSSSNGSSRDHSNAYSSGASSANAGNTFSSTI |
| 800 | sp|P27367|CYST\_SYNE7 | MSLRLPSLSFTWLTRLSWSWRFTWVYLTLILFIPIIALFLKSASLPLGRIWELATQPVAVAAYEVTFGLSLAAAALNGVFGVIIAWVLTRYDFPGKKLFDSFIDLPFALPTAVAGLTLATVYSDKGWIGQFIAPFGVQIAFTRWGVLLAMVFISLPFVVRTVEPLLLELEVEAEEAAASLGASPSETFWRVILPPILPGVLAGVAQGFSRAVGEFGSVVIISGNLPFDDLIAPVLIFERLEQYDYAGATVIGSVLLLFSLVILFVINALQNWSSRYNG |
| 801 | sp|P14788|CYSA\_SYNE7 | MPKDKAVGIQVSQVSKQFGSFQAVKDVDLTVETGSLVALLGPSGSGKSTLLRLIAGLEQPDSGRIFLTGRDATNESVRDRQIGFVFQHYALFKHLTVRKNIAFGLELRKHTKEKVRARVEELLELVQLTGLGDRYPSQLSGGQRQRVALARALAVQPQVLLLDEPFGALDAKVRKDLRSWLRKLHDEVHVTTVFVTHDQEEAMEVADQIVVMNHGKVEQIGSPAEIYDNPATPFVMSFIGPVNVLPNSSHIFQAGGLDTPHPEVFLRPHDIEIAIDPIPETVPARIDRIVHLGWEVQAEVRLEDGQVLVAHLPRDRYRDLQLEPEQQVFVRPKQARSFPLNYSI |
| 802 | sp|A6VUA4|DEGPL\_MARMS | MNRLLKQVCMVVVSSFMMASMLTHAASLPDFTELVEKASPAVVNISTEQTVTTKTANEGGQQLGPNSEELNEFFKHFFGQQPFGQQAPPQQGQRSSLGSGFIISHDGYVLTNNHVIDGADVIHVRLNDRREYVAKLVGTDPRTDLALLKIEADDLPIVKMGDSDKLKPGQWVLAIGSPFGFDYTVTAGIVSATGRSLPSDNYVPFIQTDVAINPGNSGGPLFNLDGEVVGINSQIYTRSGGFMGVSFAIPSKVAMSVVDQLKSDGKVSRAWLGVLIQDVNNELAESFGLDRSNGALISRVLPDSPAEKAGLKSGDIILEFNGQSIAHSGELPYIVGQMKADEKVDAKVYRDGKEQTISVTLEARPNDPKVVAQSQQDQNRLGMIVGEVPADMAKKFEIDNGVVIEQVLGGTAARNGLQQGDVITMLNGKRITSVAEFAKIAKDIPSGRSVPMRVIRQGYPMFIPFKIMD |
| 803 | sp|O22609|DEGP1\_ARATH | MATTTSCSLLLSSTLFLHSPPSSHLSFFNLSSSRSSPISLYPIRSKRYFRILSKLSLNDNNRDDDDDTLHFTPFSAVKPFFLLCTSVALSFSLFAASPAVESASAFVVSTPKKLQTDELATVRLFQENTPSVVYITNLAVRQDAFTLDVLEVPQGSGSGFVWDKQGHIVTNYHVIRGASDLRVTLADQTTFDAKVVGFDQDKDVAVLRIDAPKNKLRPIPVGVSADLLVGQKVFAIGNPFGLDHTLTTGVISGLRREISSAATGRPIQDVIQTDAAINPGNSGGPLLDSSGTLIGINTAIYSPSGASSGVGFSIPVDTVGGIVDQLVRFGKVTRPILGIKFAPDQSVEQLGVSGVLVLDAPPSGPAGKAGLQSTKRDGYGRLVLGDIITSVNGTKVSNGSDLYRILDQCKVGDEVTVEVLRGDHKEKISVTLEPKPDES |
| 804 | sp|B1MZG6|DNAK\_LEUCK | MSKIIGIDLGTTNSAVAVLEGGEPKIITNPDGGRTTPSVVSFKNGESQVGDVAKRQAITNPDTIISIKSHMGEAGYKVTADGKDYTPQEISAMILQYIKGYAEDYLGEKVEKAVITVPAYFNDAQRQATKDAGKIAGLEVERIINEPTAAALAYGLDKLDKDEKILVYDLGGGTFDVSILELGDGVFEVLSTNGDTHLGGDDFDNKIIDYLAAQFKADNGIDLKDDKLALQRLKDAAESAKKTLSSANEAQIDLPFIASGDQGPLHLQTSLSRAKFNELTADLIKKAEQPVLNALKDAGLSFSDIDEVILNGGSTRIPAVQESVKKLTGKEPNHSINPDEAVALGAAVQGGVITGDVKDVVLLDVTPLSLGIETMGGVFTKLIDRNTTIPTSKSQVFSTAADNQPAVDIHVLQGERSMAADNKTLGRFQLSDIPAAKRGVPQIEVTFDIDRNGIVSVSAKDLGTQKEQKITIQAAGGLSEEEIEQMMNDAKANEEADAKKKEAVDTRNEADQLIFSTEATLEEAGDKLSDDDKKATQEALEALKKAKEDAAAEDADLTDLKAKTEALAKAAQELAMKLYQQAAPKEGAEGEAKPKG |
| 805 | sp|A8IPT1|DNAK\_AZOC5 | MSKIIGIDLGTTNSCVAVMEGASPKVIENAEGARTTPSIVAFTEDGERLVGQPAKRQGVTNPERTFFAVKRLIGRRYDDPTVEKDKKLVPYKVVRADNGDAWVESDGKKYSPSQISAFILQKMKETAESFLGEKVEKAVITVPAYFNDAQRQATKDAGRIAGLEVLRIINEPTAAALAYGLDKKNSGTIAVYDLGGGTFDVSVLEIGDGVFEVKSTNGDTFLGGEDFDMRLVNYLADEFKKEQGIDLRNDKLALQRLKEAAEKAKIELSSATQTEINLPFITADASGPKHLTMKLTRAKFEALVEDLIQRTMEPCRLALKDAGLSAGQIDEVVLVGGMTRMPKVQEMVKQFFGKEPHKGVNPDEVVAIGAAIQAGVLQGDVKDVLLLDVTPLSLGIETLGGVFTRLIDRNTTIPTKKSQVFSTAEDGQTAVTIRVFQGEREMAADNKILGQFDLVGIPPAPRGVPQIEVTFDIDANGIVQVSAKDKGTGKEQQIRIQASGGLNDADIEKMVKDAESHAADDKKRRALAEAKNHGEALVHSTEKALSEHGDKVGAAEKGAIESALGELKTALTTEDAEAIQAKTQALAQASLKLGEAMYSAQQGGEQPGAAKKDDVVDAEFTEVDDDKKKSA |
| 806 | sp|Q2J320|DNAK\_RHOP2 | MGKVIGIDLGTTNSCVAVMDGKNSKVIENAEGMRTTPSIVAFSDDGERLVGQPAKRQAVTNPERTFFAVKRLVGRRYDDPMVEKDKKLVPYKIVKASNGDAWVEADGQTYSPSQVSAFILQKMKETAEAHLGQKVDQAVITVPAYFNDAQRQATKDAGKIAGLEVLRIINEPTAAALAYGLDKTKAGTIAVYDLGGGTFDVSILEIGDGVFEVKSTNGDTFLGGEDFDMRLVSYLADEFQKEQGINLRNDKLALQRLKEAAEKAKIELSSTTQTEINLPFITADQSGPKHLTMKLTRAKFEALVDDLVQKTIEPCRKALKDAGLTAGEIGEVVLVGGMTRMPKVQEVVKQLFGKEPHKGVNPDEVVAIGAAIQAGVLQGDVKDVLLLDVTPLSLGIETLGGVFTRIIERNTTIPTKKSQVFSTAEDNQNAVTIRVFQGEREMAADNKILGQFDLMGIPPAPRGMPQIEVTFDIDANGIVNVSAKDKATGKEQQIRIQASGGLSDSDIDKMVKDAEANAAEDKKRREAVDAKNHADALVHSTEKALAEHGSKVAEPERRAIEDALSDLRESLKSDDAEVIKAKTNTLAQASMKLGEAMYTQQAESDAAKHAAKDDIVDADFTEVDDDKNNKKSA |
| 807 | sp|B6YRF7|DNAK\_AZOPC | MGKIIGIDLGTTNSCVAVMEGGKPVVIPNSEGKMTTPSIVAFVGSERKIGDPAKRQAITNPTKTIFSIKRFMGESYDKVQNEINRIPYKVTRGGNDTSRVDIDGRLYSPQEISAMILQKMKKTAEDYLGQEVTEAVITVPAYFGDSQRQATIEAGEIAGLKVKRIINEPTAAALAYGLEKADKDMKIAVFDLGGGTFDISILELGSGVFEVLSTNGDTHLGGDDFDHVIIDFLADEFQRNEGLDLRKDAMAMQRLKEAAEKAKIELSSSTSTEINLPYIMPVDGMPKHLIVTLTRSKFEQLSDKLIRSTVDPCEKALKGAGLTAKDINEIILVGGSTRIPIIQTEVEKIFGKVPSKGVNPDEVVAVGAAIQGAILSGDSNLGEMVLLDVTPLSLGIETMGSVMTKLIEANSTIPIKKSETFTTAADNQPSVEIHVLQGERPLAKDNKTIGKFHLDGIMPAPRGIPQIEVTFDIDANGVVSVSAKDKATGKEQSIRIEASSGLSEAEIKRMKEEATANAEADTKAKERVDKLNHADSVIFQTEKQLKDFGDKIPADKKASIEATLTKLKEAHKAQDLSSIDTIIAEINNTFQAMSQELYNAKAQTNNSAGNNNSAGNNTQNNNNASDNNNNNVTDVDFEEVK |
| 808 | sp|P9WH05|DEAD\_MYCTU | MAFPEYSPAASAATFADLQIHPRVLRAIGDVGYESPTAIQAATIPALMAGSDVVGLAQTGTGKTAAFAIPMLSKIDITSKVPQALVLVPTRELALQVAEAFGRYGAYLSQLNVLPIYGGSSYAVQLAGLRRGAQVVVGTPGRMIDHLERATLDLSRVDFLVLDEADEMLTMGFADDVERILSETPEYKQVALFSATMPPAIRKLSAKYLHDPFEVTCKAKTAVAENISQSYIQVARKMDALTRVLEVEPFEAMIVFVRTKQATEEIAEKLRARGFSAAAISGDVPQAQRERTITALRDGDIDILVATDVAARGLDVERISHVLNYDIPHDTESYVHRIGRTGRAGRSGAALIFVSPRELHLLKAIEKATRQTLTEAQLPTVEDVNTQRVAKFADSITNALGGPGIELFRRLVEEYEREHDVPMADIAAALAVQCRGGEAFLMAPDPPLSRRNRDQRRDRPQRPKRRPDLTTYRVAVGKRHKIGPGAIVGAIANEGGLHRSDFGQIRIGPDFSLVELPAKLPRATLKKLAQTRISGVLIDLRPYRPPDAARRHNGGKPRRKHVG |
| 809 | sp|C3PMM7|DNAK\_RICAE | MGKVIGIDLGTTNSCVAVMEGKEPKVIENAEGERTTPSIIAFANGEKLVGQSAKRQAVTNPRNTIYAVKRLIGRNFIDPMVRKDQGIVPYNIVKADNGDAWVEADNNKYSPSQISAFILQKMKETAENYLGDKVTQAVITVPAYFNDAQRQATKDAGKIAGLEVLRIINEPTAAALAYGFEKSASKTIAVYDLGGGTFDVSILEIADGVFEVKSTNGDTFLGGEDFDTRILNHLIDVFKKENGIDLSKDPLALQRLKEAAEKAKKELSSAVTTDINLPYITADSSGPKHLNIKFTRAELEKLVDDLIEKTIEPCRKALQDAGFKASDIQEVILVGGMTRMPKVQEAVKKFFGREPHKGVNPDEVVALGAAIQGGVLNKEVTDILLLDVTPLSLGIETLGGVFTRLIDRNTTIPTKKSQIFSTADDNQHAVTIRVFQGEREMAKDNKLLGQFNLEGIPLAPRGLPQIEVTFDIDANGIVHVSAKDKASGKEQKVTIQASGGLSDAEIEQMVKDAEQNADEDKKRKELIEAKNAADSLVYSTEKTLTEYGDKLSSDDKGAVEEALAALKAVLESEDTALIKEKTESLTAASMKIGEAMHKAQSESQPAAKSATNDEKIVDADFQDVEKK |
| 810 | sp|A4SFB1|DNAK\_CHLPM | MGKIIGIDLGTTNSCVAVMQGTQPTVIENSEGNRTTPSMVAFTKNGDRLVGQAAKRQAITNPTNTIFSIKRFVGRKFDEVPNEKKIAPYAVVNEGGEARVKINDKTYSPQEISAMILQKMKQTAEDFLGEKVTEAVITVPAYFNDAQRQATKDAGRIAGLEVKRIINEPTAAALAYGLDKKTSSEKVAVFDLGGGTFDISILELGDGVFEVKSTDGDTHLGGDDFDQKIIDFLADEFKKQEGIDLRNDPIALQRLKEAGEKAKIELSSRTDTEINLPFITATQEGPKHLVINLTRAKFEGICADLFAKILEPCQRAVKNSKVPMKEIDEIVLVGGSTRIPKVQALVKDFFGKEPNKSVNPDEVVAVGAAIQGGVLKGDVTDVLLLDVTPLSLGIETLGGVMTKLIDANTTIPTKKQEVFSTAGDNQTSVEVHVLQGERSMATDNKTLGRFHLGDIPPAPRGLPQIEVAFDIDSNGILHVSAKDKATGKEQSIKIEASSKLTDAEIEKMKEDAKAHAEEDKKLKEEIDIKNSADALIFSTEKQLEELGDKIPADKRPAIDGALEKLKDAHKNGTTETIQSGMEELSKVWSEVAADLYKEEPQGNPEGGSAPEGEKKGDDGSVENAEYEVIDGDDKK |
| 811 | sp|A4J7F3|DNAK\_DESRM | MGKVIGIDLGTTNSCVAVMEGGEAVVIPNAEGARTTPSVVGFSKTGERLVGQVAKRQAVSNPDRTIQSIKRYMGTNHKVSIDGKDYSPQEISAMILSKLKADAEAYLGESVTQAVITVPAYFSDAQRQATKDAGKIAGLEVLRIINEPTAAALAYGLDKEGDQTIQVFDLGGGTFDVSILELGDGVFEVKSTSGNNRLGGDDFDQRIVDFLVAEFKKETGVDLSKDKMAMQRLKESAEKAKIELSGVLSTNVNLPFISVGADGPLHLDVNISRAKFDELTADLVEKTMGPTRQALADSGLETNEINKVLMVGGSTRIPAVQEAVRKFLGKEPHKGINPDECVALGAAIQAGVLAGEVKDVLLLDVTPLSLGIETLGGVFTKLIDRNTTIPTSKSQIFSTAADNQPSVEIHVLQGERQMAADNKTLGRFQLSGIPPAPRGVPQIEVKFDIDVNGIVSVSAKDMGTGTVQSISITGGTGGLSDDEINRMVNEAEKFAEEDKKRKEAVEVKNQADSLIYQAEKTIKDLGENADKAKVEAVQKAVEELRTAMNGNDTDLIKNKLEELTKPLHELTADLYQQQQAQQAAAQGGCAGGNCGGQAEKDNVVDADYEVKDDNK |
| 812 | sp|P73098|DNAK3\_SYNY3 | MGKVVGIDLGTTNSVVAVMEGGKPIVIANAEGMRTTPSVVGFNKEGELVVGQMGRRQAVLNPQNTFYGVKRFMGRRYTDLTPESKRVAYTIRRDDRDNIKVRCPRLKKDFAPEEISAMILRKLAEEASRYLGEKVTGAVITVPAYFNDSQRQATRDAGKIAGLEVLRIINEPTAASLAYGLDQGRIQKILVFDLGGGTFDVSVLEVGDGIFEVKATSGDTQLGGNDFDRRIVDWLAEKFLEAEKVDLRQDRQALQRLTEAAEKAKIELSGVGTTEINLPFITATEDGPKHLETQLSRSEFEDLCGDLVTRLQRPVKRVLKDAGLSPVQIDEVVLVGGGTRMPMVKGLVRSFIDREPNENVNPDEVVAIGAAIQAGILDGEVKDILLLDVTPLSFGLETIGGVMKKLLPRNTTIPVRKSDIFSTGENNQTVVEVHVLQGEREMASDNISLGRFKLSGIPPAPRGVPQVQVSFDIDANGILQVTARDKTTGREQSITVQGASILSEGEVNRMIQEAETFAAQDRERRERIEKRNSAKALTDQAQRRLKEVTLDFGSAFTVSYRRQVDALCSEILDSLEKDDERRLDRAQADLQDVLYELNREVRLQYDDKEEGFFEAIKKTFTGDFDDDDDYYNRRPAPRDDYRGGNDYGRYDDYNYNAPSRREAPMPRAGAGRGPSLSKDYRSTAYADWDQSRVTRQRPYQGESLGGTYDDRRSSPQDDYSRGDRQKDYDYRENAPSRSGRGGNGRYGERPAQPGRNAPLQNGWDDDDDDWF |
| 813 | sp|A5CD86|DNAJ\_ORITB | MSDLDYYQVLGVSRTASQEEIKRAYRKLVLKYHPDHNPGDKNAEQKIKNINEAYDILKDEKKRSAYDQLGHQAFKNSGGGNYQQHHGFTGGIDPNDIFENIFGDFMGARRSSKTAFSKKAGANLKYDISLTLEEAFYGVTKIISFKTALTCDACAGKGSLDNNSTSSCPTCRGSGVTRSQQGFFFFENTCQTCRGAGHVIKNPCTKCYGEGRYINTRNLEVKIPAGVKEGSRIKLTGEGEAGSRGGKTGDLYVCITLIPHNTFSVDGNDLHCQLDINCTTAALGGEVEVADITGSKLKLKIPAGTQNNHKLKLSGKGMQILHSDRCGNMIVHVNIKVPKSLTKSQRELMIKLDKELNEASEEGFLSKVRNFWASGSE |
| 814 | sp|B5ENA3|DNAK\_ACIF5 | MAKVIGIDLGTTNSCVAVMEGDKVKVIENSEGKRTTPSIVAITEEGEVLVGEAAKRQAVTNPENTVYEVKRLIGRKFDDAEVQKDLKHVPYKVIKADNGDAWVEVRDKKYSAQQISAFILQKMKKTAEDYLGEKVTEAVITVPAYFNDAQRQATKDAGRIAGLEVKRIINEPTAAALAFGEDKKPGDSKIAVYDLGGGTFDISIIEIAEMEGEHQFEVLSTNGDTFLGGGDFDSRVINYLADSFKAESGIDLRGDRLAMQRLKEAAEKAKIELSSAQQTDVNLPFITADQSGPKHLNMKLTRAKLESLVEDLIDRSMAPCRVAMKDANLATSRITDVILVGGQSRMPKVQEKVKDFFGQDPRKDVNPDEAVAIGAAIQGAVLSGEKKDVLLMDVTPLSLGIETLGGVMTKLIEKNTTIPTRKSQIFSTAEDNQSAVTVHVLQGERELARDNKSLARFDLTDIANAPRGMPQIEVTFDIDANGILHVSAKDNQTGKEQSIKITASSGLSEEEIKRMIQEAEAHAADDKKARALIEARNEADASVHGARKAVEEHAAAPEHDKTKVTEAISAVENAAKGEDVEAIKGAVATLMAAMSALLQSAAAGQAQAESGAGAQGNAKPDDVVDAEFEEVDKK |
| 815 | sp|Q4FNQ0|DNAJ\_PELUB | MAKRDFYDVLGVSKSASPEELKSAYRKLAVKYHPDKNPGDKASEDKFKEAGEAYGVLSDKEKKQNYDNFGHAAFEGGGGRQGGGFGGGFGGADFSDIFEDFFGDFGGGQSRGRRKTNNRGSDLRYDLSITLEEAYEGKKQDIKFSTTEKCNTCNGNGSKPGHSPDRCTVCGGNGKVRSNQGFFTVQQTCPQCAGSGEEITNPCTDCNGQGNKQASKKISVTIPKGVDDGTRIRLAGKGEAGSKGGANGDLYLFVNVHSHDLFKRSDENLFFEFPISIADAALGTTIEIPTIDGGKAKIKIPDGTQNGKQFRLKGKGMPYMRGSGNGDLYVQVNTEVPISLNKEQKALLEKFREIENEKSNPSIKQFFQKAKSFWKN |
| 816 | sp|B3E7W9|DNAK\_GEOLS | MSKVIGIDLGTTNSCVAIMEGGEPIVIANSEGSRTTPSMVAFTEAGERIVGQQAKRQAVTNPENTLFAIKRLIGRKFETEAVKKDIAISPFKIVKADNGDAWVDVRDKKYSPPEISAIILQKMKKTAEDYLGETVTDAVITVPAYFDDSQRQATKDAGKIAGLNVLRIINEPTAAALAYGLDKKKDEKIAVFDLGGGTFDVSVLELGDGVFEVKSTNGDTFLGGEDFDQKIIDWIADEFKKDQGIDLRGDKMALQRLKEAAEKAKCELSGSMETDINLPFITADASGPKHLNLKLSRAKLESLCDDLLRKLEGPCRTAMKDAGLTASEIDEVILVGGMTRMPAVVQRVQEIFGKVPNKGVNPDEVVAIGAGIQGGVLKGDVKDVLLLDVTPLSLGIETLGGVLTRLIEKNTTIPCRKSQTFSTAADNQPAVSIHVLQGEREMARDNKTLGNFELTGIPPAPRGVPQIEVTFDIDANGIVHVSAKDLGTGKEQSIRITASSGLSKEEIDKMVKDAESHAAEDKKKREAIEARNQADSMIYSTEKSLKEVGDKVDAVEKGTIENKIADLKKVMDSDDAEVIKKATDELAQAAHKLAEAMYAQAQQAPGADSCGGDCGQQQEAGAKPKDEKVVDADFEEVKK |
| 817 | sp|A8G9K8|DNAK\_SERP5 | MGKIIGIDLGTTNSCVAIMDGGKARVLENSEGDRTTPSIIAYTQDGEILVGQPAKRQAVTNPQNTLFAIKRLIGRRFQDEEAQRDKDIMPYKIVAADNGDAWVEVKGQRVAPPQISAEVLKKMKKTAEDYLGEPVTEAVITVPAYFNDAQRQATKDAGRIAGLEVKRIINEPTAAALAYGLDKEVGNRTIAVYDLGGGTFDISIIEIDEVDGEKTFEVLATNGDTHLGGEDFDSRLINYLVEEFKKEQGFDLRNDPLAMQRLKEAAEKAKIELSSAQQTDVNLPYITADASGPKHMNIKVTRAKLESLVEDLVARSIEPLKVALKDAGLSVSDIQDVILVGGQTRMPMVQKKVADFFGKEPRKDVNPDEAVAVGAAVQGGVLAGDVKDVLLLDVTPLSLGIETMGSVMTPLITKNTTIPTKHSQVFSTAEDNQSAVTIHVLQGERKRANDNKSLGQFNLDGIQAAARGMAQIEVTFDIDADGILHVSAKDKNTGREQKITIKASSGLNEEEIQKMVRDAEVNAEADRKFEELVQTRNQADHLIHGTRKQLEEAGDKLPAEDKTAIEAALKDLEVAVKGEDKAEIEAKTQALVQVSGKLLEMAQAQQAQQGADAGADNAAQKDDDVVDAEFEEVKDKK |
| 818 | sp|Q6G553|DNAJ\_BARHE | MKVDYYEILGVTRECDDKKLKSAFRKLAMQYHPDRNAGDKEAERKFKEIGEAYEVLKDPQKRAAYDRFGHAAFENNNNGGGSPFSGFSAGGFADIFEDFFGEIMGGGHRKRSDGRERGADLSYNMEVTLEEAFSGKTAQINIPSSVVCDACEGSGAKKGSKPQTCGTCHGAGRVRAAQGFFSIERTCPVCHGRGETIKDPCPKCQGTRRVEKNRSLSVNIPAGIEDSTRIRLSGEGDAGIRGGPSGDLYIFLSVKPHEFFQREGADLHCRVPISMVTAALGGEFEVSDLDGIKARVKIPEGTQNGRQFRLKGKGMPMLRRQQVRGDLYIHITIETPQKLTQEQRELLQKFEKLSNHENSPQSHGFFSRMKEFFENISGKNE |
| 819 | sp|Q145F0|DNAJ\_PARXL | MAKRDYYEVLGVAKNASDDEIKKAYRKLAMKHHPDRNPGNKDAEGHFKEVKEAYEMLSDSQKRAAYDQYGHAGVDPNMGGAGAQGFGGFADAFGDIFGDIFGQAAGGAARGGGGRAGPQVYRGADLRYSMEITLEQAAHGYDTQIRVPSWVSCEVCHGSGAKPGTKPETCPTCSGSGSVRMSQGFFSIQQTCPKCHGTGTYIPDPCGHCHGAGKVKETKTLEVKIPAGIDDGMRIRSAGNGEPGINGGPSGDLYVEIHIKQHSVFERDGDDLHCQMPIPFTTAALGGEIEVPTLAGRASFTVPEGTQSGKTFRLRGKGIKGLRSSIAGDLYVHVQVETPVKLTEPQRDLLKQFEKALVEGGSRHSPQSKSWFDRVKSFFD |
| 820 | sp|P59565|DNAK\_BUCBP | MSKIIGIDLGTTNSCIAIMDGNKARVLENSEGDRTTPSIIAYTNDNEILIGKPAKRQSITNPKNTLFAIKRLIGRKFTDNEVQRDIKIMPYKIIQSENGDAWINIKNKKLAPPQISAEILKKMKKTAEDYLGESIQEAVITVPAYFNDAQRQATKDAGRIAGLKVKRIINEPTAAALAYGLDKGKGNKTIAVYDLGGGTFDISIIEIDDVDKEKTFEVLATNGDTHLGGEDFDNRLINYLVEDFKKDQGTDLRNDSLAMQRLKESAEKAKIELSSTQQTDVNLPYITADSTGPKHLNIKVTRSKLESLVEDLITRSIEPLKIALKDAKLSISDIDDVILVGGQTRMPMVQKKVAEFFKKEPRKDVNPDEAVAVGAAVQGGVLSGEVKDVLLLDVTPLSLGIETMGGVMTTLISKNTTIPTKHSQIFSTAEDNQTAVTIHVLQGERKRSIDNKSLGQFNLDGIQPAPRGMAQIEVTFDIDSDGILHVSAKDKNTGKEQKITIKASSGLNETEIKKMILDAEQNSESDQKFEELVKVRNQGDQISHSTKKQLKDLEKTINVNDQKEINEALNKLDTALKGENKTKIEEKIQEVLKISTKLIEKNKPKQTSESSNSNSPSSSKPEENVVDAEFEEVKDQKK |
| 821 | sp|Q74H59|DNAK\_GEOSL | MSKVIGIDLGTTNSCVAVMEGGEPVVIANAEGSRTTPSMVAFAESGERLVGQQAKRQAVTNPENTLFAIKRLIGRKYDTEEVRKDISISPFKIVKADNGDAWVEARGKMYSAPEISAMVLQKMKQTAEDYLGETVTDAVITVPAYFNDSQRQATKDAGKIAGLNVLRIINEPTAAALAYGLDKKKDEKIAVFDLGGGTFDISILELGDGVFEVKSTNGDTFLGGEDFDQRVIDWIADEFKKDQGIDLRGDKMALQRLKEAAEKAKCELSTSMETDINLPFITADATGPKHLTMKLSRAKLEALCADLLNKLEGPCRTALKDAGLSPSEVDEVILVGGMTRMPAVQKRVQEIFGKVPNKGVNPDEVVAIGAAIQGGVLRGDVKDVLLLDVTPLSLGIETLGSVMTKLIEKNTTIPCRKSQVFSTASDNQPAVTIHVLQGEREMAIDNKTLGNFELTGIPPAPRGVPQIEVTFDIDANGIVHVSAKDLGTGKEQSIRITASSGLSKEEIDKMVKEAEAHSAEDKKKRELVEARNHADTLSYSTEKSLKEYGDKIGADEKAKIEECLANLRKAMEGSDVEVLKKATDELTQASHKLAEAVYAKAQAEGAQPGGEAAGEASAKDEKVVDADFEEVKDDKK |
| 822 | sp|B9JZ89|DNAJ\_AGRVS | MAKADFYETLGVSKTADEKELKSAFRKLAMKFHPDKNPGDAESERKFKEINEAYETLKDPQKRAAYDRFGHAAFEQGGMGSAGGGGGFAGGGFSDIFEDIFGEMMGGGRGGNARGRSTGGRERGADLRYNMEISLEEAFTGKTAQIRVPTSITCEVCSGSGAKPGTKPTTCATCQGSGRVRAAQGFFSIERTCPTCQGRGQTISDPCGKCHGQGRVTEERQLSVSIPSGIEDGTRIRLQGEGEAGLRGGPSGDLYIFLSVKPHQFFQREGADLYCSVPISMTTAALGGTFDVTTLDGTKSRVTVPEGTQPGKQFRLKGKGMPVLRSAQMGDLYIQIQIETPQKLTKRQRELLQEFDQISSKENNPESTGFFARMKEFFEG |
| 823 | sp|Q8G6C6|DNAJ\_BIFLO | MADYYETLGVERGASDDEIKKAYRKLSRKYHPDIAGPEFEDKFKEVNNAYDVLSNPDKRRMYDSGVDPNNPNAGAGGFSGAGFGDMSDVFSTFFGSAFGGGSQGPVPRTQPGRDALASASIDLKTAVFGGTAHVKINTFSLCQECGGSGAQGGAQPVTCPDCHGQGFMQKVVRTMLGQMMTSAPCERCEGHGTIIQNPCPSCMGHGRVRTTRTVGVTVPAGINDNARLRLANQGEVGEGGGAAGDLYIDIRIKADKQFTRDGDDLHCWIQVPMSWAVLGHDLSIDTFDGEKTVSIPAGCQTEDTVTLKGLGVTNIRNKDERGNLIAHVNVLIPTKLNETERGLIEQFAASHDSGATHVSQASRPQAGQKKGFFSKLKDALS |
| 824 | sp|B1IRF9|DNAJ\_ECOLC | MAKQDYYEILGVSKTAEEREIKKAYKRLAMKYHPDRNQGDKEAEAKFKEIKEAYEVLTDSQKRAAYDQYGHAAFEQGGMGGGGFGGGADFSDIFGDVFGDIFGGGRGRQRAARGADLRYNMELTLEEAVRGVTKEIRIPTLEECDVCHGSGAKPGTQPQTCPTCHGSGQVQMRQGFFAVQQTCPHCQGRGTLIKDPCNKCHGHGRVERSKTLSVKIPAGVDTGDRIRLAGEGEAGEHGAPAGDLYVQVQVKQHPIFEREGNNLYCEVPINFAMAALGGEIEVPTLDGRVKLKVPGETQTGKLFRMRGKGVKSVRGGAQGDLLCRVVVETPVGLNEKQKQLLQELQESFGGPTGEHNSPRSKSFFDGVKKFFDDLTR |
| 825 | sp|P44586|DEAD\_HAEIN | MTDKITFNDLGLPEFILKAVSDLGFETPSPIQQSCIPHLLNGNDVLGMAQTGSGKTAAFALPLLAQIDPSEKHPQMLVMAPTRELAIQVADACELFVKYAQGTRIVTLYGGQRYDIQLRALKQGAQVVVGTPGRILDHIRRGTLNLSELRFIVLDEADEMLRMGFIDDVETVMAELPENHQTALFSATMPEPIRRITKRFMNDPQEVKIKVNNENAPDIDQSCWYVHGVRKNEALLRFLEVEDFDAAIIFARTKTGTLDITELLEKNGFRSAALNGDMTQQLREQTLDRLRNGSLDIVVATDVAARGIDIERISLVVNYDIPLDAESYVHRIGRTGRAGRSGRALLFVEPRERRLLRNIEHLMKKGINEVELPNHLVLQECRRKKFVAKITKQLEHHDLEQYRSLLEDLFTADQDQENIAAAMLMLLQGKQKLILPPDPPMEKRRRERNDRGDRRENPRSAERRGERKGYGNPQPMDLYRIEVGRADGVEVRHIVGAIANEGDINSRYIGHIKLYDDYTTVELPQGMPKELLQQFAKTRVLNKQMQMSFLGAVKSDNSRGSDDFNGKRKGRGGDFRGERGRERGNDNRGNRKFNEKSNRTFSDKPRRDRRSSF |
| 826 | sp|P94695|DNAK\_DEIPM | MAKAVGIDLGTTNSVIAVMEGGRPEVIVNAEGNRTTPSVVAYKGDERLVGQIARRQAALNPQATLFEVKRFIGRRWDEVKDEAARSPFTVKEGPGGSVRIEVDGKDYAPEQVSAEVLRKLVGDASAKLGQKITDAVITVPAYFDNSQREATKQAGEIAGLNVLRVINEPTAAALAYGLERKGDETILVFDLGGGTFDVTILELGDGVFEVKSTSGDTSLGGADFDQRIVDWLAEEFNKEHNFDLRKDKQALQRLIEAAEKAKIELSNASETSISLPFITFDPETRTPLHLERTLSRAKFEELTADLLKRVRQPVEQAMRDAGVSSSDLNEVILVGGSTRIPAVKRIVKDLTGKEPNESVNPDEAVALGAAVQAGIIQGDSNLGDIVLVDVTPLTLGVEVKGGMIAPMITRNTAVPAKKTEIYTTAENNQPGVEINVLQGERPMAADNKSLGRFKLEGIPPMRAGQAQIEVTFDIDANGILNVTAKEKTTGKESSITIENTTTLDKSDVERMVKEAEQNAEADKARKERVEKRNALDQMRVQALQQIDENAAAPQDAKDRLKAVADEAEQAVGSDDDSRIAEVQGRLEEELRNFMTQNSAAAGAQEGAGQPGAAQDQDDVIDADFKPADDNK |
| 827 | sp|A6WX07|DNAJ\_OCHA4 | MKIDYYEALGVERTADDKVLKTAFRKLAMEYHPDRNPNNPEAERKFKEIGEAYETLKDPQKRAAYDRFGHAAFENGGMGGGFGNGFGGSGGFADIFEDIFGEMMGGGRRRSNGGRERGADLRYNMEVTLEEAYAGKTAQIRVPTSITCDECSGSGAKAGSQPTTCTMCSGSGRVRAAQGFFSVERTCPTCNGRGQIIKDPCGKCHGQGRVTQERSLSVNIPAGIEDGTRIRLSGEGEAGMRGGPSGDLYIFLSVKPHEFFQRDGSDLYCKVPISMTTAALGGQFEVSTLDGTQTRVKVPDGTQNGKQFRLKGKGMPVLRQAAVGDLYIQIDIETPQNLSKRQRELLEEFEKLSSQENSPKSAGFFSRMKEFFEGIGE |
| 828 | sp|Q92J37|DNAJ\_RICCN | MSQNYYQILGVSKTASQADLKKAYLKLAKQYHPDTTDAKDAEKKFKEINAAYDVLKDEQKRAAYDRLGHDAFQNQQSRGGGGNHGGFHPDINDIFGDFFSDFMGGSRRSSRPTSAKVRGSDLKYNLTINLEEAFHGIEKNISFSSAVKCDTCHGSGSEKGETVTTCDACSGVGATRMQQGFFTIEQACHKCQGNGHIIKNPCKKCHGMGRYHKQRNLSVNIPAGVENGTRIRHTGEGEAGIRGGNSGDLYVDITIKPHDIYKVDGANLHCKLPISFVNAALGGEIEVPVIEGGKVNLTIPAGTQNGDQLRLRSKGMSKMRSTIRGDMLTHIHVEVPKNLSKRQRELLEEFKKESINEKENDGSFFNKMKSLWS |
| 829 | sp|Q9LCQ4|DNAJ\_BRECH | MKRDYYEVLGVGKGADADEIKKAYRKLARQYHPDVNKAADAEEKFKEVKEAYDVLSEPQKRAQYDRFGHQDPNQGFGGGGFDASGMGGFGDIFDMFFGGGGRRANPNAPRKGSDLQFGLSIEFTETVFGKETDVEIPKEAECDTCHGSGAKPGTGVETCKTCSGTGQQEVAANTPFGRIVNRRVCTTCEGKGKVFKEKCSSCRGSGRVKVRRKIHLNIPAGVDDGAQLRVTGEGEPGVNGGPPGDLYVVLRVKSHEFFEREGNDIYCEVPLTYAQAALGDEIEVPTVDGRVKLKIPSGTQTETFFRLRGKGVPHLRGNGRGDQHVKVRVITPTKLSDKQKELLRELAELSGEKPGQHGGEDEGFFEKMKRAFRGE |
| 830 | sp|A9KKU0|DNAK\_LACP7 | MGKIIGIDLGTTNSCVAVMEGGKPVVIANTEGSRTTPSVVAFTKTGERIVGEPAKRQAVTNADKTISSIKRHMGTDFRVSIDDKKFTPQEISAMVLQKLKADAEGYLGEKISEAVITVPAYFNDAQRQATKDAGKIAGLDVKRIINEPTAAALAYGLDNEHEQKIMVYDLGGGTFDVSIIEIGDGVIEVLATSGDNRLGGDDFDERVTRYFIDEFKKAEGVDLSTDKMALQRLREAAEKAKKELSSATTTNINLPFITATSEGPKHFDLNLTRAKFDELTHDLVERTAIPVQNALRDAGLAPSELGKVLLVGGSTRIPAVQDKVKQLTGHEPSKSLNPDECVAIGASVQGGKLAGDTGAGDILLLDVTPLSLSIETMGGIATRLIERNTTIPSKKSQIFSTAADNQTAVDINVVQGERQFAKDNKSLGQFRLDGIPPARRGIPQIEVTFDIDANGIVNVSAKDLGTGKEQHITITAGSNMSDSDIDKAVREAAEYEAQDKKRKDAVDTRNDADSIVFQTEKALSEVGDKVSADEKTAVEADLNHLKDLVAKANPEVMSEGEVEDMKAAKEKLMNSAQALFAKLYESAQGAAGAGPDMSGAGPQGDTYAGDDVVDGDYREV |
| 831 | sp|B2TLZ8|DNAJ\_CLOBB | MANKDYYEVLGLQKGASDDEIKKAFRKLAIKYHPDKNKGNTEAEEKFKEINEAYQVLSDPEKKSNYDQFGSADFNGGGFGSGGFGGFDMGGFGDIFDMFTGGGSSTRRRNGPVNGNDIEYTVTLTFEEAVFGVEKEITVNRSESCEHCNGSGAEPGTSKKTCPTCSGTGQVRVQRQTPLGSFVSTSTCDRCSGTGNIIEKPCTHCRGNGNVRKTRKINVNIPAGVDTGNVMPLRGQGEHGLRGGSPGDLYIRINVSPSKEFTRKGNDIYIDTHISMAKAALGTEITVKTVEGNVKYTVPEGTQSGTLFRLKGKGVARVNSTGKGDQYVRVIVDIPKGLNQKQKEALYTFMEACGEEMDENTHSFKKNLFGRKK |
| 832 | sp|B9MJZ0|DNAJ\_CALBD | MAQKKDYYEILGVPRNATEEEIKRAYRRLAKQYHPDANPGNKEAEEKFKEINEAYEVLSDPEKRKLYDQFGHAAFDPKYGAQGSGGFSGGFGGGFADFDFGSFGDIFEDLFEGFDIFGTSRRRKEAPRKGADIYVDLELTLKESVFGCEKEIPIYRTEKCSVCGGSGVKPGSAPVRCQKCGGTGQIRSRQATFFGEFTTIKTCDACGGTGTIITDPCRECGGTGNVRRQRRVKINIPAGIDDGQVITLRGEGESGIKGGPNGDLHIKIKIAPHPVFKRVGQDLYIEVPITFVNAALGGEIEIPTLDGKTKVRIEPGTQNGDEVRIKGKGVPNLRSRGRGDLVVKFIVEVPKKLTEKQKELLREFERLSSEEGYEKRKHFWDRIREAFS |
| 833 | sp|Q835R5|DNAJ\_ENTFA | MATKRDYYEVLGLAKGASDDEIKKAYRKLSKKYHPDINKEADAEEKFKEVSEAYEVLSDPQKKAAYDQYGHAGTDPNYGGGAGGFGGFGGGGFSSSGFGGFEDIFDSFFGGGGGRSVDPNAPRQGADLQYTIQLKFEEAIFGVEKEIKYNREDTCATCGGNGAKPGTHPETCHKCHGSGTINVERQTPLGRMMSRQTCDVCHGTGKEIKEPCPTCHGTGHEKKAHTVKVNVPAGVEDGQQMRLANQGEAGTNGGPYGDLYVVFRVEDSDIFDRDGAEIYYDLPVSFVQAALGDEVTVPTVHGDVKLKIPAGTQTGTNFRLRGKGAPRLRGGGNGDQHVKVKLITPKNLNEEQKDALRAFAKAGGQNVTEQQEEGFFDKMKDAFGGKKKK |
| 834 | sp|P12949|DHN4\_HORVU | MEYQGQQHGRVDEYGNPVAGHGVGTGMGTHGGVGTGAAAGGHYQPMRDEHQTGRGILHRSGSSSSSSSEDDGMGGRRKKGIKEKIKEKLPGGHGDQQHNAGTYGYGQQGTGMAGTGGTYGQQGHTGMTGMGATDGTYGQQGHTGMAGTGAHGTAATGGTYGQQGHTGMTGTGMHGTGGTYGQQGHTGMTGTGMHGTGGTYGQHGTDTGEKKGIMDKIKEKLPGQH |
| 835 | sp|B8GNX1|DNAK\_THISH | MGKIIGIDLGTTNSCVAVMEGDKAKVIENAEGARTTPSIVAFTEDGEVLVGQAAKRQAVTNPKNTLFAVKRLIGRRFEEPEVQKDIKLVPYEIFKADNGDAWVRVRDKKMAPPEISARVLQKMKKTAEDYLGEPVTEAVITVPAYFNDSQRQATKDAGKIAGLEVKRIINEPTAAALAYGLDKKRGDSKVAVYDLGGGTFDVSIIEIAEVDGEHQFEVLATNGDTFLGGEDFDMRLIDYLVEEFKKEQGIDLKGDPLAMQRLKESAEKAKIELSSSQQTDVNLPYITADASGPKHMNIKVTRAKLESLVEELIKRTIEPCKVALKDAGLSVSDIDDVILVGGQTRMPKVQDAVKNFFGKEPRKDVNPDEAVAVGAAIQAGVLGGEVKDVLLLDVTPLSLGIETLGGVMTKLIEKNTTIPTKATQVFSTADDNQTAVTVHVLQGEREMASANKSLGRFDLTDIPPAPRGVPQVEVMFDIDANGILNVSAKDKATGKQQSIVIKASSGLSDEEVERMVRDAEAHADEDKRFHELVAARNQADNLVHATEKSLKELGDQVEAGEKQAIESALSELREAMKGDNKDEIETRTQKLAEASGKLAERVYAKQSAEGGAGEGAGAEQASAQQDDVVDAEFEEVDDKKK |
| 836 | sp|P0A3J4|DNAK\_STRAG | MSKIIGIDLGTTNSAVAVLEGTESKIIANPEGNRTTPSVVSFKNGEIIVGDAAKRQAVTNPDTVISIKSKMGTSEKVSANGKEYTPQEISAMILQYLKGYAEDYLGEKVEKAVITVPAYFNDAQRQATKDAGKIAGLEVERIVNEPTAAALAYGMDKTDKDEKILVFDLGGGTFDVSILELGDGVFDVLATAGDNKLGGDDFDQKIIDFLVEEFKKENGIDLSQDKMALQRLKDAAEKAKKDLSGVTQTQISLPFITAGSAGPLHLEMSLSRAKFDDLTRDLVERTKTPVRQALSDAGLSLSEIDEVILVGGSTRIPAVVEAVKAETGKEPNKSVNPDEVVAMGAAIQGGVITGDVKDVVLLDVTPLSLGIETMGGVFTKLIDRNTTIPTSKSQVFSTAADNQPAVDIHVLQGERPMAADNKTLGRFQLTDIPAAPRGIPQIEVTFDIDKNGIVSVKAKDLGTQKEQHIVIQSNSGLTDEEIDKMMKDAEANAEADAKRKEEVDLKNEVDQAIFATEKTIKETEGKGFDTERDAAQSALDELKKAQESGNLDDMKAKLEALNEKAQALAVKLYEQAAAAQQAAQGAEGAQSADSSSKGDDVVDGEFTEK |
| 837 | sp|Q67S54|DNAK\_SYMTH | MAKVIGIDLGTTNSVVAVMDGSEPTVLENREGDRTTPSVVAFTKTGERLVGKVAKRQAITNPDRTIISIKRHMGSDYKVRIDDKAYTPQEISAMILSKLKADAEEKLGEKITQAVITVPAYFTDAQRQATKDAGTIAGLEVLRIINEPTAAALAYGLDKGEDQRILVFDLGGGTFDVSILELGGGTFQVIATAGNNKLGGDDFDERIVNYLADRFQREHGIDLRKDKQALQRLREAAEKAKIELSSVTTTNINLPFISMTADGPVHMDETLTRAKFEELTADLVEATMGPTRQALQDAGLEPGEIDKVLLVGGSTRIPAVQEAVRRFFGKEPYKGINPDEVVAMGAAIQAAVIKGDVKDVLLLDVTPLSLGIETLGGVFTKLIERNTTIPTRKSQIFSTAADGQTQVEIHVLQGEREMAAYNKTLGRFILDGIPPAPRGVPKIEVTFDIDVNGIVHVSAKDLGTGKEQKITIQSQTSMSKEEIERAIKEAEAMAAEDKKRREEAEIRNNADAAVYNAEKLIKESEGKGIDPSLIDAVKGAIEPVKEALKGTDVNAVKQATEKLTEAVYKLSSAIYEKTGSAGTGAGSQAGSAAGSGDGQSMDAEFKVKDEDK |
| 838 | sp|B0U3J8|DNAK\_XYLFM | MGKIIGIDLGTTNSCLAIIEGGKGRVIENSEGDRTTPSIVAYTKDGEVLVGAAAKRQAVTNPKNTFYAVKRLIGRKFGDAEVQKDLDLVPYKITQHDNGDAWVATADGKKLAPQEISAKVLEKMKKTAEDFLGEKVTEAVITVPAYFNDSQRQATKDAGRIAGLDVKRIINEPTAAALAYGLDKKGGDRKIAVYDLGGGTFDVSIIEIAEVDGEKQFEVLATNGDTFLGGEDFDKRVIDYLVDEFNKDQGIDLRKDPLALQRLKDAAERAKIELSSSQQTEVNLPYITADASGPKHLNIKLTRAKLEALVDDLVRKSIEPCRIALNDAGLRTSDVQEVILVGGQTRMPKVQQAVADFFGKEPRKDVNPDEAVALGAAIQGGVLAGDVKDVLLLDVTPLSLGIETMGGVFTKIIEKNTTIPTKASQVFSTAEDGQSAVTVHVLQGEREQARFNKSLAKFDLAGIEPAPRGQPQIEVSFDIDANGILHVSAKDKKTNKEQKVEVKAGSGLSDSEIQQMVADAEAHREEDKKFQELVQARNHADGLIHSTRSAIKEHGSKVGGELIGRVEASLAELEAAVKGDDKNQIEAKSKTLEEVAQSLHMAATAEQQSASTGAGAGSSAKVDDVVDAEFTEVKGDKK |
| 839 | sp|A6QHC3|DNAK\_STAAE | MSKIIGIDLGTTNSCVTVLEGDEPKVIQNPEGSRTTPSVVAFKNGETQVGEVAKRQAITNPNTVQSIKRHMGTDYKVDIEGKSYTPQEISAMILQNLKNTAESYLGEKVDKAVITVPAYFNDAERQATKDAGKIAGLEVERIINEPTAAALAYGLDKTDKDEKVLVFDLGGGTFDVSILELGDGVFEVLSTAGDNKLGGDDFDQVIIDYLVAEFKKENGVDLSQDKMALQRLKDAAEKAKKDLSGVSQTQISLPFISAGENGPLHLEVNLTRSKFEELSDSLIRRTMEPTRQAMKDAGLTNSDIDEVILVGGSTRIPAVQEAVKKEIGKEPNKGVNPDEVVAMGAAIQGGVITGDVKDVVLLDVTPLSLGIEILGGRMNTLIERNTTIPTSKSQIYSTAVDNQPSVDVHVLQGERPMAADNKTLGRFQLTDIPPAERGKPQIEVTFDIDKNGIVNVTAKDLGTNKEQRITIQSSSSLSDEEIDRMVKDAEVNAEADKKRREEVDLRNEADSLVFQVEKTLTDLGENIGEEDKKSAEEKKDALKTALEGQDIEDIKSKKEELEKVIQELSAKVYEQAAQQQQQAQGANAGQNNDSTVEDAEFKEVKDDDKK |
| 840 | sp|Q13217|DNJC3\_HUMAN | MVAPGSVTSRLGSVFPFLLVLVDLQYEGAECGVNADVEKHLELGKKLLAAGQLADALSQFHAAVDGDPDNYIAYYRRATVFLAMGKSKAALPDLTKVIQLKMDFTAARLQRGHLLLKQGKLDEAEDDFKKVLKSNPSENEEKEAQSQLIKSDEMQRLRSQALNAFGSGDYTAAIAFLDKILEVCVWDAELRELRAECFIKEGEPRKAISDLKAASKLKNDNTEAFYKISTLYYQLGDHELSLSEVRECLKLDQDHKRCFAHYKQVKKLNKLIESAEELIRDGRYTDATSKYESVMKTEPSIAEYTVRSKERICHCFSKDEKPVEAIRVCSEVLQMEPDNVNALKDRAEAYLIEEMYDEAIQDYETAQEHNENDQQIREGLEKAQRLLKQSQKRDYYKILGVKRNAKKQEIIKAYRKLALQWHPDNFQNEEEKKKAEKKFIDIAAAKEVLSDPEMRKKFDDGEDPLDAESQQGGGGNPFHRSWNSWQGFNPFSSGGPFRFKFHFN |
| 841 | sp|B5YH59|DNAK\_THEYD | MGKAIGIDLGTTNSVVAVVVGGEPVVIPNQEGQRTTPSVVAFTDKGERLVGQVAKRQAITNPENTIFSIKRLMGRKYNSQEVQEAKKRLPYKIVEAPNGDAHVEIMGKRYSPPEISAMILQKLKQAAEDYLGEPVTEAVITVPAYFDDSQRQATKDAGRIAGLNVLRIINEPTAAALAYGLDKKKEEKIAVYDLGGGTFDISILEIGEGVIEVKATNGDTYLGGDDFDIRVMDWLIEEFKKQEGIDLRKDRMALQRLKEAAERAKIELSSAMETEINLPFITADASGPKHLLMKLTRAKLEQLVDDLIQKSLEPCKKALSDAGLSQSQIDEVILVGGQTRTPKVQKVVQDFFGKEPHKGVNPDEVVAVGAAIQAAILKGEVKEVLLLDVTPLSLGIETLGGVFTKIIERNTTIPTKKSQIFTTAADNQTAVTIKVYQGEREMAADNKLLGVFELVGIPPAPRGIPQIEVTFDIDANGILHVSAKDLATGKEQSIRITASSGLSEEEIKKMIREAEAHAEEDRRKKQIAEARNEADNMIYTVEKTLRDMGDRISEDERKRIEEAIEKCRRIKDTSNDVNEIKAAVEELAKASHRVAEELYKKAGASQQGAGSTTQSKKEEDVIEAEVEDKDNK |
| 842 | sp|B8ZLY9|DNAK\_STRPJ | MSKIIGIDLGTTNSAVAVLEGTESKIIANPEGNRTTPSVVSFKNGEIIVGDAAKRQAVTNPDTVISIKSKMGTSEKVSANGKEYTPQEISAMILQYLKGYAEDYLGEKVTKAVITVPAYFNDAQRQATKDAGKIAGLEVERIVNEPTAAALAYGLDKTDKEEKILVFDLGGGTFDVSILELGDGVFDVLSTAGDNKLGGDDFDQKIIDHLVAEFKKENGIDLSTDKMAMQRLKDAAEKAKKDLSGVTSTQISLPFITAGEAGPLHLEMTLTRAKFDDLTRDLVERTKVPVRQALSDAGLSLSEIDEVILVGGSTRIPAVVEAVKAETGKEPNKSVNPDEVVAMGAAIQGGVITGDVKDVVLLDVTPLSLGIETMGGVFTKLIDRNTTIPTSKSQVFSTAADNQPAVDIHVLQGERPMAADNKTLGRFQLTDIPAAPRGIPQIEVTFDIDKNGIVSVKAKDLGTQKEQTIVIQSNSGLTDEEIDRMMKDAEANAEADKKRKEEVDLRNEVDQAIFATEKTIKETEGKGFDAERDAAQAALDDLKKAQEDNNLDDMKTKLEALNEKAQGLAVKLYEQAAAAQQAQEGAEGAQATGNAGDDVVDGEFTEK |
| 843 | sp|Q01PM8|DNAK\_SOLUE | MGKIIGIDLGTTNSCVAVMEGGQPTVIANQEGNRTTPSVVAFTKSGERLVGQVAKRQAITNPENTVFSIKRFMGRRYDEVNEEMKMVPYKVVRGENGDARVDIMGKKYSPPEISAMILTKLKEAAESYLGEKVTQAVITVPAYFNDAQRQATKDAGKIAGLDVLRIINEPTAAALAYGLDKKKNETIAVYDFGGGTFDISVLEVGEGVVEVKSTNGDTHLGGDNIDQRVIDWIVSEFKKENGIDLSKDQMALQRLKEAAEKAKMELSTLLETEINLPFITADATGPKHLQMRLSRSRFEQMVEDILQRSMGPCKQAMTDASVTPSQIDEVVLVGGQTRMPRIQTLVRELFQRDPHQGVNPDEVVAIGAAVQGGVLGGEVKDVLLLDVTPLSLGIETMGGVFTKLIERNTTIPTRKSEVFSTASDNQPSVEIKVYQGERAMARDNRLLGVFQLGNIPPAPRGVPQIEVTFDIDANGILNVTAKDRGTNNEQKITITSSSGLSKDEVEKMARDAEANAADDRKLKDTIDARNRADAMVYNVEKTLKEHRAKVGEAEAKEIEAALEETKKTLNENDAEKINAAVDRLTTASHKLAEAMYKSSSQPGAQEAPPTDGQPKPDEKGKDNVVDAEFVDVDDKK |
| 844 | sp|Q9CA93|BAC2\_ARATH | MDFWPEFMATSWGREFVAGGFGGVAGIISGYPLDTLRIRQQQSSKSGSAFSILRRMLAIEGPSSLYRGMAAPLASVTFQNAMVFQIYAIFSRSFDSSVPLVEPPSYRGVALGGVATGAVQSLLLTPVELIKIRLQLQQTKSGPITLAKSILRRQGLQGLYRGLTITVLRDAPAHGLYFWTYEYVRERLHPGCRKTGQENLRTMLVAGGLAGVASWVACYPLDVVKTRLQQGHGAYEGIADCFRKSVKQEGYTVLWRGLGTAVARAFVVNGAIFAAYEVALRCLFNQSPSPDIVTGD |
| 845 | sp|O65572|CCD1\_ARATH | MAEKLSDGSSIISVHPRPSKGFSSKLLDLLERLVVKLMHDASLPLHYLSGNFAPIRDETPPVKDLPVHGFLPECLNGEFVRVGPNPKFDAVAGYHWFDGDGMIHGVRIKDGKATYVSRYVKTSRLKQEEFFGAAKFMKIGDLKGFFGLLMVNVQQLRTKLKILDNTYGNGTANTALVYHHGKLLALQEADKPYVIKVLEDGDLQTLGIIDYDKRLTHSFTAHPKVDPVTGEMFTFGYSHTPPYLTYRVISKDGIMHDPVPITISEPIMMHDFAITETYAIFMDLPMHFRPKEMVKEKKMIYSFDPTKKARFGVLPRYAKDELMIRWFELPNCFIFHNANAWEEEDEVVLITCRLENPDLDMVSGKVKEKLENFGNELYEMRFNMKTGSASQKKLSASAVDFPRINECYTGKKQRYVYGTILDSIAKVTGIIKFDLHAEAETGKRMLEVGGNIKGIYDLGEGRYGSEAIYVPRETAEEDDGYLIFFVHDENTGKSCVTVIDAKTMSAEPVAVVELPHRVPYGFHALFVTEEQLQEQTLI |
| 846 | sp|P29197|CH60A\_ARATH | MYRFASNLASKARIAQNARQVSSRMSWSRNYAAKEIKFGVEARALMLKGVEDLADAVKVTMGPKGRNVVIEQSWGAPKVTKDGVTVAKSIEFKDKIKNVGASLVKQVANATNDVAGDGTTCATVLTRAIFAEGCKSVAAGMNAMDLRRGISMAVDAVVTNLKSKARMISTSEEIAQVGTISANGEREIGELIAKAMEKVGKEGVITIQDGKTLFNELEVVEGMKLDRGYTSPYFITNQKTQKCELDDPLILIHEKKISSINSIVKVLELALKRQRPLLIVSEDVESDALATLILNKLRAGIKVCAIKAPGFGENRKANLQDLAALTGGEVITDELGMNLEKVDLSMLGTCKKVTVSKDDTVILDGAGDKKGIEERCEQIRSAIELSTSDYDKEKLQERLAKLSGGVAVLKIGGASEAEVGEKKDRVTDALNATKAAVEEGILPGGGVALLYAARELEKLPTANFDQKIGVQIIQNALKTPVYTIASNAGVEGAVIVGKLLEQDNPDLGYDAAKGEYVDMVKAGIIDPLKVIRTALVDAASVSSLLTTTEAVVVDLPKDESESGAAGAGMGGMGGMDY |
| 847 | sp|Q5L3G9|CSHA\_GEOKA | MTTFQELGLSQEVMKAIERMGFEETTPIQAKTIPLSLQNKDVIGQAQTGTGKTAAFGIPIVEKVNVKNSAVQALVVAPTRELAIQVSEELYKIGAVKRVRVLPIYGGQDIERQIRALKKHPHVIVGTPGRIIDHINRGTLRLEHVHTVVLDEADEMLNMGFIEDIEAILSHVPAERQTLLFSATMPDPIRRIAERFMNEPELVKVKAKEMTVPNIQQYYLEVHEKKKFDILTRLLDIQAPELAIVFGRTKRRVDELAEALNLRGYAAEGIHGDLSQAKRLSVLRKFKEGAIEILVATDVAARGLDISGVTHVYNFDIPQDPESYVHRIGRTGRAGKTGVAMTFVTPREIGQLHHIERTTKRKMERMKPPTLDEALEGQQRIAIEKLLNVVETENLSFYKRAAEELLEEHDSVTIVAACLKMLTREPDTTPVQLTEEPPLAVKREKKRGGRPDGSARSRTKKRRITAH |
| 848 | sp|Q99SH6|CSHA\_STAAM | MQNFKELGISDNTVQSLESMGFKEPTPIQKDSIPYALQGIDILGQAQTGTGKTGAFGIPLIEKVVGKQGVQSLILAPTRELAMQVAEQLREFSRGQGVQVVTVFGGMPIERQIKALKKGPQIVVGTPGRVIDHLNRRTLKTDGIHTLILDEADEMMNMGFIDDMRFIMDKIPAVQRQTMLFSATMPKAIQALVQQFMKSPKIIKTMNNEMSDPQIEEFYTIVKELEKFDTFTNFLDVHQPELAIVFGRTKRRVDELTSALISKGYKAEGLHGDITQAKRLEVLKKFKNDQINILVATDVAARGLDISGVSHVYNFDIPQDTESYTHRIGRTGRAGKEGIAVTFVNPIEMDYIRQIEDANGRKMSALRPPHRKEVLQAREDDIKEKVENWMSKESESRLKRISTELLNEYNDVDLVAALLQELVEANDEVEVQLTFEKPLSRKGRNGKPSGSRNRNSKRGNPKFDSKSKRSKGYSSKKKSTKKFDRKEKSSGGSRPMKGRTFADHQK |
| 849 | sp|Q9KL16|CSPV\_VIBCH | MSTKMTGSVKWFNETKGFGFLTQDNGGNDVFVHFNSIQSEGFKTLAEGQRVSFIVEQGKKGPQASNVVAL |
| 850 | sp|P38091|CYC\_EMENI | MAKGGDSYSPGDSTKGAKLFETRCKQCHTVENGGGHKVGPNLHGLFGRKTGQAEGYAYTDANKQADVTWDENSLFKYLENPKKFIPGTKMAFGGLKKTKERNDLITYLKESTA |
| 851 | sp|Q9RXI7|DDRD\_DEIRA | MDTLKKAGTMLAHLDLFHSMLDLRRLLQLAAYMKERGDRAMLISAGEITLIGSESMTAPEVVTSKGETIDAATAYRVLGQLEGYEAPEYAVNREALAALNARAVAELEGSEALRAFGDTLARISAAPTDPAGPERPGTDRAERTAAERTASERATHDRASTERPARPRRSAEPEAVRTEDAPQPNAEASEAGENTPAA |
| 852 | sp|A8Z4B8|DNAJ\_STAAT | MAKRDYYEVLGISKDASKDEIKKAYRKLSKKYHPDINKEEGADEKFKEISEAYEVLSDDNKRASYDQFGHDGPQGFGGQGFNGSDFGGFSGFGGGGFEDIFSSFFGGGRQRDPNAPQKGDDLQYTMTLTFEEAVFGTTKEISIRKDVTCETCHGDGAKPGTSKKTCSYCNGAGHVAVEQNTILGRVRTEQVCPKCNGSGQEFEEACPTCHGKGTENKTVKLEVKVPEGVDNEQQIRLAGEGSPGVNGGPAGDLYVVFRVKPSETFKRDGDDIYYKLNVSFPQAALGDEIKIPTLNNEVMLTIPAGTQTGKQFRLKEKGIKNVHGYGYGDLYVDIKVVTPTKLTDRQKELMKEFAQLNGEEINEQPSNFKDRAKRFFKGE |
| 853 | sp|Q84BU3|DNAJ\_LACAC | MAQEDYYKVLGVDRDASDQEISKAYRKLAKKYHPDLNHEPGAEEKYKQVNEAYEVLHDKQKRAQYDQFGSAGVNGQGGFGGAGQGFGGAGFDTSGFGDFGDIFGDIFGQGARQQRVDPTQPQRGQDLDYTLTIDFMDAINGKKTQVSYTRDETCETCGGNGCEKGTHPITCDKCHGTGVMTVTQQSMLGMIRRQTTCDKCNGRGVIIEHPCKTCGGKGTVERKNTIEVDIPAGIDNGQQLRYQGQGEAGRNGGPYGDLYISYRIKPSKDFERRGQNIYTEVPISFAQATLGDEITVKTVHGDAKLTIPAGTQPNKKFTLRGQGVPYLRGNGNGDQITTVNIVIPKHINDKQKEDLTNFVHDGGGNITPQEKGFFERLKDKLSGE |
| 854 | sp|B6IVA4|DNAK\_RHOCS | MSKVIGIDLGTTNSCVAIMEGTQAKVIENAEGARTTPSMVAFTQGGERLVGQPAKRQAVTNPENTFFAIKRLIGRRYDDPLTQKDKGLVPYRIVGGKNGDAWVESHGKQYSPSEISAFILQKMKETAENYLGEKVTQAVITVPAYFNDSQRQATKDAGKIAGLEVLRIINEPTAAALAYGMEKKGTGTIAVYDLGGGTFDISVLEIGDGVFEVKSTNGDTFLGGEDFDAKIIDYLAEEFQKEQGIDLRKDRLALQRLKEAAEKAKIELSASMQTEVNLPFITADASGPKHLNIKLTRSKLEALVDDLVRRTIEPCKAALKDAGLKASEIDEVILVGGMTRMPKIIETVKQFFGREPHRGVNPDEVVAVGAAIQGGVLKGEVKDVLLLDVTPLSLGIETLGGVFTRLIDRNTTIPTKKSQVFSTAEDNQTAVTIRVFQGEREMAADNKMLGQFDLMGIPSAPRGVPQIEVTFDIDANGIVNVSAKDKATGKEQTIRIQASGGLSDADIDRMVKDAEAHAAEDKKRRELVEARNQADGLIHTTERTLSENGDKLPGAEKSAAEAAIAELRTAMAADDVADIKAKTDALAQASMKLGEALYKAGQETGGPGAPGGDSGASEAGGEKVVDADFEEVDDDRKKSA |
| 855 | sp|Q4UJK7|DNAK\_RICFE | MGKVIGIDLGTTNSCVAVMEGKEPKVIDNAEGERTTPSIIAFANSERLVGQPAKRQAVTNPRNTIYAVKRLIGRNFTDPMVRKDQGLVPYNIVKADNGDAWVEADNNKYSPSQISAFILQKMKETAENYLGEKVTQAVITVPAYFNDAQRQATKDAGKIAGLEVLRIINEPTAAALAYGFEKSSSKTIAVYDLGGGTFDVSILEISDGVFEVKSTNGDTFLGGEDFDTRILNHLIDVFKKDSGIDLSKDPLALQRLKEAAEKAKKELSSTSATDINLPYITADSTGPKHLNIKFTRAELEKLVDDLIEKTIEPCRQALKDAGFKPTDIQEVVLVGGMTRMPKVQEAVKKFFGREPHKGVNPDEVVALGAAIQGGVLNKEVTDILLLDVTPLSLGIETLGGVFTRLIDRNTTIPSKKSQVFSTADDNQHAVTIRVFQGEREMAKDNKLLGQFNLEGIPPAPRGVPQIEVTFDIDANGIVHVSAKDKASGKEQKVTIQASGGLSDSEIEQMVKDAEHNADEDKKRKELIETKNAADSLVYSTEKTLREYGDKLSSEEKGAVEEALASLKSALESEDASLIKEKTNNLTAANMKIGETMYKAQTENQHSEANTVNDEKVVDADFQDVDKK |
| 856 | sp|A5VJE8|DNAJ\_LACRD | MAEQDYYDILGVSKDASEKDIKRAYRRLAAKYHPDVNHEPGAEEKFKKINEAYETLSDSQKRAQYDQFGSAGPQGAGGQGFGGFGGGQAYSNFGGGFDDIFSQFFGGGGRTRRDPTAPRQGRDLQYAMTLDFMDAVFGKTTTIKYDRDAECKTCHGTGAKPGKSPITCPRCHGAGVITSVRQTPLGNMQTQTTCPECNGTGKIIKPEDRCDTCHGAGHVHERHELEVKVPAGVDDGQQMRLQHQGDAGENGGPAGDLYIVFRVTPSREFRRDGSTIYVDRDISFAQAALGDEVKVKTVHGDVNLKIPAGTQSETNFRLRGKGVPHLNGNGNGDEHVTVHVKTPKSLNKRQREAMLAFAAASGEDVKGVKKTVLDKLRDAFEDK |
| 857 | sp|Q02FR1|DNAK\_PSEAB | MGKIIGIDLGTTNSCVAILENGNVKVIENAEGARTTPSIIAYTNDGETLVGQPAKRQAVTNPQNTLYAVKRLIGRRFEENVVQKDIQMVPYSIVKADNGDAWVEVKGQKMAPPQISAEVLKKMKKTAEDYLGEPVTEAVITVPAYFNDSQRQATKDAGRIAGLDVKRIINEPTAAALAYGLDKAKGDHTVIVYDLGGGTFDVSVIEIAEVDGEHQFEVLATNGDTFLGGEDFDIRLIDYLVDEFKKESGINLKGDPLAMQRLKEAAEKAKIELSSTQQTDVNLPYVTADASGPKHLNVKVSRAKLESLVEDLVQRTIEPCRTALKDAGLDVSDIHEVILVGGQTRMPLVQKTVAEFFGKEARKDVNPDEAVAVGAAIQGAVLAGDVKDVLLLDVTPLTLGIETLGGVMTGLIEKNTTIPTKKSQVFSTADDNQGAVTIHVLQGERKQAAQNKSLGKFDLADIPPAPRGVPQIEVTFDIDANGILHVSAKDKATGKQQSIVIKASSGLSEDEIQQMVRDAEANAEEDRKFEELAAARNQGDALVHATRKMITEAGDKATAEDKATIEKALGELEAAVKGDDKAEIEAKMNALSQASTPLAQKMYAEQAQQGEDAPQGEQAKAADDVVDAEFEEVKDNK |
| 858 | sp|Q2RKX4|DNAK\_MOOTA | MSKVIGIDLGTTNSCVAVMEGGEAVVIPNAEGGRTTPSVVAFTKEGERIVGQVAKRQAITNPDRTVISIKRHMGTNYKVKIDNKEYTPQEISAMILQKLKADAEAYLGEKVTQAVITVPAYFTDSQRQATKDAGRIAGLEVLRIINEPTAASLAYGLDKGEDQTILVYDLGGGTFDVSILELGDGVFEVKATSGNNRLGGDDFDQRIMDYLVDICRREHGVDLTQDKMAMQRLKEAAEKAKIELSGMTSTNINLPFISATPNGPVHLDVNLTRAKFEELIADLVEKTVGPTRQALADAGLEPKDIDKVLLVGGSTRVPLVQETVRKILGQEPHKGINPDECVALGAAIQGGVLAGEVKDVLLLDVTPLSLGIETLGGVFTKLIERNTTIPTSKSQIFSTAADNQTTVEIHVLQGERAMAADNKTLGRFQLTGIPPAPRGVPQIEVKFDIDANGIVHVSAKDLGTGKQQAITITSSSGLSEEEIQRMVKEAEASAEADRRRKEEIETRNQADSLIYQAERTLKEFKDKADQNDVDRIEKAKKELQEVLDSKNNDKIKEKMEALSQALYTLTTKVYQQAGAQAGAQGQGAAGGQKQDGNVYDADYKVVDDDKKE |
| 859 | sp|B5Y241|DNAJ\_KLEP3 | MAKQDYYEILGVSKTAEEREIKKAYKRLAMKYHPDRNQGDKEAEAKFKEIKEAYEILTDAQKRAAYDQYGHAAFEQGGMGGGGGFGGGADFSDIFGDVFGDIFGGGRGRQRAARGADLRYNMELTLEEAVRGVTKEIRIPTLEECDVCHGSGAKAGSKPQTCPTCHGAGQVQMRQGFFAVQQTCPHCQGRGTLIKDPCNKCHGHGRVEKTKTLSVKIPAGVDTGDRIRLAGEGEAGEHGAPAGDLYVQVQVKQHAIFEREGNNLYCEVPINFTMAALGGEIEVPTLDGRVSLKVPGETQTGKLFRMRGKGVKSVRGGAQGDLLCRVVVETPVGLNEKQKQLLKELQESFGGPTGENNSPRSKSFFDGVKKFFDDLTR |
| 860 | sp|Q9LN86|DRE1F\_ARATH | MNNDDIILAEMRPKKRAGRRVFKETRHPVYRGIRRRNGDKWVCEVREPTHQRRIWLGTYPTADMAARAHDVAVLALRGRSACLNFADSAWRLPVPESNDPDVIRRVAAEAAEMFRPVDLESGITVLPCAGDDVDLGFGSGSGSGSGSEERNSSSYGFGDYEEVSTTMMRLAEGPLMSPPRSYMEDMTPTNVYTEEEMCYEDMSLWSYRY |
| 861 | sp|Q70DU8|AL3H1\_ARATH | MAAKKVFGSAEASNLVTELRRSFDDGVTRGYEWRVTQLKKLMIICDNHEPEIVAALRDDLGKPELESSVYEVSLLRNSIKLALKQLKNWMAPEKAKTSLTTFPASAEIVSEPLGVVLVISAWNYPFLLSIDPVIGAISAGNAVVLKPSELAPASSALLTKLLEQYLDPSAVRVVEGAVTETSALLEQKWDKIFYTGSSKIGRVIMAAAAKHLTPVVLELGGKSPVVVDSDTDLKVTVRRIIVGKWGCNNGQACVSPDYILTTKEYAPKLIDAMKLELEKFYGKNPIESKDMSRIVNSNHFDRLSKLLDEKEVSDKIVYGGEKDRENLKIAPTILLDVPLDSLIMSEEIFGPLLPILTLNNLEESFDVIRSRPKPLAAYLFTHNKKLKERFAATVSAGGIVVNDIAVHLALHTLPFGGVGESGMGAYHGKFSFDAFSHKKAVLYRSLFGDSAVRYPPYSRGKLRLLKALVDSNIFDLFKVLLGLA |
| 862 | sp|O80931|AS1\_ARATH | MKERQRWSGEEDALLRAYVRQFGPREWHLVSERMNKPLNRDAKSCLERWKNYLKPGIKKGSLTEEEQRLVIRLQEKHGNKWKKIAAEVPGRTAKRLGKWWEVFKEKQQREEKESNKRVEPIDESKYDRILESFAEKLVKERSNVVPAAAAAATVVMANSNGGFLHSEQQVQPPNPVIPPWLATSNNGNNVVARPPSVTLTLSPSTVAAAAPQPPIPWLQQQQPERAENGPGGLVLGSMMPSCSGSSESVFLSELVECCRELEEGHRAWADHKKEAAWRLRRLELQLESEKTCRQREKMEEIEAKMKALREEQKNAMEKIEGEYREQLVGLRRDAEAKDQKLADQWTSRHIRLTKFLEQQMGCRLDRP |
| 863 | sp|P78695|BIP\_NEUCR | MEHRTRSWALGLSILGFFALLFSAGFVQQAHANDTEAMGTVIGIDLGTTYSCVGVMQKGKVEILVNDQGNRITPSYVAFTDEERLVGDAAKNQAAANPHRTIFDIKRLIGRKFSDKDVQNDIKHFPYKVVSKDDKPVVKVEVKGEEKTFTPEEISAMILGKMKETAEGYLGKKVTHAVVTVPAYFNDNQRQATKDAGMIAGLNVLRIVNEPTAAAIAYGLDKTGEERQIIVYDLGGGTFDVSLLSIEQGVFEVLSTAGDTHLGGEDFDQRIINHFAKLFNKKHGVDVTKDAKAMGKLKREAEKAKRTLSSQMSTRIEIEAFYDGKDFSETLTRAKFEELNNDLFKKTLKPVEQVLKDAKVSKSEIDDIVLVGGSTRIPKVQALIEEFFNGKKASKGINPDEAVAFGAAVQAGVLSGEEGTEDIVLMDVNPLTLGIETTGGVMTKLIPRNTPIPTRKSQIFSTAADNQPVVLIQVYEGERSMTKDNNLLGKFELTGIPPAPRGVPQIEVSFELDANGILKVSAHDKGTGKAESITITNDKGRLTQEEIDRMVAEAEKYAEEDKATRERIEARNGLENYAFSLKNQVNDEDGLGGKIDEEDKETILDAVKEAQDWLEENAATASAEDFDEQKEKLSNVAYPITSKLYSQGGAGDDEPAGHDEL |
| 864 | sp|J7M799|CAHS1\_RAMVA | MPYEKHVEQTVVEKTEQPGHSSTHHAPAQRTVAREQEEVVHKEFTHTDIRVPHIDAPPPIIAASAVGLAEEIVSHGFQASAARISGASTEVDMRPSPKLAEEARRDAERYQKEHEMINRQAEATLQKKAEEYRHQTEAEAEKIRRELEKQHERDIQFRKDLIDQTIEKQKREVDLEAKMAKRELDREAQLAKEALERSRMATNVEVTLDTAAGHTVSGGTTVSSVDKVETVRERKHH |
| 865 | sp|Q4R7U2|CHRD1\_MACFA | MALLCYNRACGQRFDPETNSDDACTYHPGVPVFHDALKGWSCCKRRTTDFSDFLSIVGCTKGRHNSEKPPEPVKPEVKTTEKKELSELKPKFQEHIIQAPKPVEAIKRPSPDEPMTNLELKISASLKQALDKLKLSSGNEEDKKEEDNDEIKIGTSCKNGGCSKTYRGLESLEEVCVYHSGVPIFHEGMKYWSCCRRKTSDFNTFLAQEGCTKGRHMWTKKDAGKKVVPCRHDWHQTGGEVTISVYAKNSLPELSRVEANSTLLNVHIVFEGEKEFDQNVKLWGVIDVKRSYVTMTATKIEINMRKAEPMQWASLELPAAKKQEKQKDDTTD |
| 866 | sp|P0A014|CH10\_STAAU | MLKPIGNRVIIEKKEQEQTTKSGIVLTDSAKEKSNEGVIVAVGTGRLLNDGTRVTPEVKEGDRVVFQQYAGTEVKRDNETYLVLNEEDILAVIE |
| 867 | sp|P61436|CH10\_LEPIC | MASIKPLGDRVLVEPRQEAEEKIGSIFVPDTAKEKPQEGKVVEIGSGKYEDGKLIPLEVKVGDTVLYGKYSGTEIKSEGKEYLIIRESDILAVVKK |
| 868 | sp|P0A0R4|CH10\_HELPJ | MKFQPLGERVLVERLEEENKTSSGIIIPDNAKEKPLMGVVKAVSHKISEGCKCVKEGDVIAFGKYKGAEIVLDGTEYMVLELEDILGIVGSGSCCHTGNHDHKHAKEHEACCHDHKKH |
| 869 | sp|P61437|CH10\_LEPIN | MASIKPLGDRVLVEPRQEAEEKIGSIFVPDTAKEKPQEGKVVEIGSGKYEDGKLIPLEVKVGDTVLYGKYSGTEIKSEGKEYLIIRESDILAVVKK |
| 870 | sp|Q7X2S8|CLPB\_MEIRU | MNLERYTEQARQAIAQSQVLARESAHSKIDLPHLAAVMLRDAAGLPAKIVQKAGQNPQNIYQAAQSELGRLPKVSGTEGGQYLSSRLASALGRAEKLADELKDRFVALDTLLLALAETGYGGLQASAVRQALQEIRGGRTVNSEHAEGTYNALEQYGLDLTRQAEEGKLDPVIGRDEEIRRVIQILLRRTKNNPVLIGEPGVGKTAVVEGLAQRIVKGDVPEGLKGKRIVSLQMGSLLAGAKYRGEFEERLKAVIQETVQSAGQIILFIDEIHTVVGAGKAEGAVDAGNMLKPALARGELHLIGATTLDEYREIEKDPALERRFQPVFVDEPSLEETVSILRGIKEKYEVHHGVRISDPALIAAAQLSHRYIADRKLPDKAIDLVDEAAARLRMALESSPESIDALNRRKLQLEIEREALKKETDAESKFRLGELEKEIADLEEEIRKQQAEWEAEREIMQKLRAAQQRLDEVRTQIEQAERAYDLNKAAPLRYGELPKLEQEVNELADRMAGAQFVRPMVTEEDIAAIVSRWTGIPVAKLMEGEREKLLRLEDELHKRVVGQDEAIVAVADAIRRARAGLKDPNRPIGSFLFLGPTGVGKTELAKTLAASLFDTEENMVRIDMSEYQEKHTVARLIGAPPGYVGYEEGGQLTEAVRRRPYSVILFDEIEKAHPDVFNVLLQVLDDGRLTDGQGRTVDFRNTVIILTSNIGSPLIFEGIQSGQSYETIRERVFGVLQQHFRPEFLNRLDEIVVFRPLAREQIAAIVQIQLEAVRKRLAERRITLELSQEALDFLAQRGYDPVFGARPLKRVIQRELETPLSRKILAGEVADGAHLYVGSGPLGLTFEARPTAVA |
| 871 | sp|Q8RHQ8|CLPB\_FUSNN | MNPNQFTENTISAINLAVDISKGNMQQSIKPEALALGLLMQNNGLIPRVIEKMGLNLQYIISELEKEMNNYPKVEVKVSNENISLDQKTNSILNRAEKIMNEMEDSFLSVEHIFKAMIEEMPIFKRFGISLEKYMEVLMNIRGNRKVDNQNPEATYEVLEKYAKDLVELAREGKIDPIIGRDSEIRRAIQIISRRTKNDPILIGEPGVGKTAIVEGLAQRILNGDVPESLKNKKIFSLDMGALVAGAKYKGEFEERMKGVLKEVEESNGNIILFIDEIHTIVGAGKGEGSLDAGNMLKPMLARGELRVIGATTIDEYRKYIEKDPALERRFQTILVNEPNVDDTISILRGLKDKFETYHGVRITDTAIVEAATLSQRYISDRKLPDKAIDLIDEAAAMIRTEIDSMPEELDQLTRKALQLEIEIKALEKETDDASKERLKVIEKELAELNEEKKVLTSKWELEKEDISKIKNIKREIENVKLEMEKAEREYDLTKLSELKYGKLATLEKELQEQQNKVDKDGKENSLLKQEVTADEIADIVSRWTGIPVSKLTETKKEKMLHLEDHIKERVKGQDEAIKSVADTMLRSVAGLKDPNRPMGSFIFLGPTGVGKTYLAKTLAYNLFDSEDNVVRIDMSEYMDKFSVTRLIGAPPGYVGYEEGGQLTEAIRTKPYSVILFDEIEKAHPDVFNVLLQVLDDGRLTDGQGRIVDFKNTLIIMTSNIGSHFILEDPNLSEDTREKVADELKARFKPEFLNRIDEIITFKALDLPAIKEIVKLSLKDLENKLKPKHITLEFSDKMVDYLANNAYDPHYGARPLRRYIQREIETSLAKKILANEVHEKSNVLIDLDNNHIVFKEV |
| 872 | sp|Q53RJ5|BIP2\_ORYSJ | MARDKQSALIVAAFVLLCSGCLCGVADGAKGGRKTKGPVIGIDLGTTYSCVGVYRNGHVDIVANDQGNRITPSWVAFTDDERLVGEAAKNQAALNPDRTIFDIKRLIGRRFDDEEVQRDVKYLPYKVVDKGGKPYVEVRVKAGEVKVFSPEEISAMILAKMKETAESYLGQRVTDAVVTVPAYFNDAQRQATKDAGTIAGLNVPRIINEPTAAAIAYGLDRKGAGEMTNVLVYDLGGGTFDVSVLSLDHGVFEVLATSGDTHLGGEDFDRRVMDHFIRLVKRQHGRDIGGDGRALGKLRRECERAKRALSRQHQVRVEIEALFVGVDFSETLTRAKFEELNMDLFKKTLGPVRKAIADAKLKKSDIDEIVLVGGSTRIPKVQELLKEMFDGKEPTKGINPDEAVAYGAAVQGSIISGEGGAETKDILLLDVTPLTLGIETAGGVMTKLIPRNTRIPVKKSQVFTTYEDHQTTVSIKVFEGERSLTKDCRELGRFDLSGIAPAPRGVPQIEVTFEVDENGILHVTASDKAAGRSKSITITNDKGRLSQEEIDRMVREAEEFAEEDRRVRERVDARNRLENYVYRMRSAVRDGGMAGKIGDDDRERMESALTEALEWLEDNDGGARTAEKEDYEEKLKEVEQVCGPIIKQVYKKSGDASAGAGDDDDVNEL |
| 873 | sp|Q9BLJ6|BAGS\_BOMMO | MESPVVLDKPPEYHGDRGFPFEEEEGSGAWSELAARHPDIAARLRQRPATWARKRRPSSNDATDDFGDNFSGFDRFPFDDIPPEFREHFPSHWNRRFSSRDEQPQQQTPASPTQPQQQTTATQTEQTPTHSEHEQQTQIPQYGLRNTVDLGQKSPADPSLVDADDRTHRSMSAPPDTPNQTKMSVHNHQEQTHQPHGETQSNVRHIPIFVEGRDKPVINKSVDHGTHFGEAKPQYVPPPPPPHVDRDQYFADDVNFHPPPNFSRSFGTPFNKTYRQGPQPFVQQKAYPQTAFARGASPQRSQSPKPTDEHFVKVPVHHETPKAEPPSRAQKSPQQHQPPPPKSPQQHQPPPPKSPQQQPPPQREQTPPQPKTQQPSSNDPITQILSIQTDVLNLMTDVENFTGTKKDKRYLFLDEMLTRNLIKLDNIETDGKENIRQARKEAIKCIQKCIAVLEAKADSSNQQRKAQPEQETQVQDECQSHDVDMKENTQNDQTTEIPAQPIVENGEVEMDEATKEKPAEPQTAAAVPPQTDNTEEANVEKQAVESAVAVEKDEKQEVVKVEAQEKSEEVKPEDANASGTVNPAETQPPAADTRPEDNKSTGGDAEKKEDKKSTPKKVTKTVKKRDKSKDKKDAPKDSNKEDKIEANSVLNPEPMPVDEKGDKTDSQVMDVDGAASQ |
| 874 | sp|P72188|CAPA\_PSEFR | MSQRQSGTVKWFNDEKGFGFITPQGGGDDLFVHFKAIESDGFKSLKEGQTVSFVAEKGQKGMQA |
| 875 | sp|Q9FH76|ABAH3\_ARATH | MDFSGLFLTLSAAALFLCLLRFIAGVRRSSSTKLPLPPGTMGYPYVGETFQLYSQDPNVFFAAKQRRYGSVFKTHVLGCPCVMISSPEAAKFVLVTKSHLFKPTFPASKERMLGKQAIFFHQGDYHSKLRKLVLRAFMPDAIRNMVPHIESIAQESLNSWDGTQLNTYQEMKTYTFNVALISILGKDEVYYREDLKRCYYILEKGYNSMPINLPGTLFHKAMKARKELAQILANILSKRRQNPSSHTDLLGSFMEDKAGLTDEQIADNIIGVIFAARDTTASVLTWILKYLADNPTVLEAVTEEQMAIRKDKKEGESLTWEDTKKMPLTYRVIQETLRAATILSFTFREAVEDVEYEGYLIPKGWKVLPLFRNIHHNADIFSDPGKFDPSRFEVAPKPNTFMPFGSGIHSCPGNELAKLEISVLIHHLTTKYRWSIVGPSDGIQYGPFALPQNGLPIALERKP |
| 876 | sp|P0ABE3|BOLA\_ECOL6 | MMIRERIEEKLRAAFQPVFLEVVDESYRHNVPAGSESHFKVVLVSDRFTGERFLNRHRMIYSTLAEELSTTVHALALHTYTIKEWEGLQDTVFASPPCRGAGSIA |
| 877 | sp|P61604|CH10\_HUMAN | MAGQAFRKFLPLFDRVLVERSAAETVTKGGIMLPEKSQGKVLQATVVAVGSGSKGKGGEIQPVSVKVGDKVLLPEYGGTKVVLDDKDYFLFRDGDILGKYVD |
| 878 | sp|P43734|CH10\_HAEIN | MNIRPLHDRVIIKREEVETRSAGGIVLTGSAATKSTRAKVLAVGKGRILENGTVQPLDVKVGDIVIFNDGYGVKSEKIDGEEVLIISENDILAIVE |
| 879 | sp|Q930X9|CH103\_RHIME | MTFRPLLDRVVIRRAEGNTQSKGGIIIPDTAKEKPQEGEVIAVGPGSRDESGKLIPLDVKIGDTILFGKWSGTEVKIDGEDLLIMKESDIMGIVANTVPTAANAA |
| 880 | sp|Q87S63|CLPB\_VIBPA | MRLDRFTSKFQIAISDAQSLALGRDHQYIEPVHLMVALLDQNGSPIRPLLTMLDVDVTHLRSKLGEMLDRLPKVSGIGGDVQLSSSMGTLFNLCDKVAQKRQDSYISSEVFLLAALEDRGPLGQLLKEVGLTEQKVSQAIEKIRGGQKVNDPNAEELRQALEKFTIDLTERAEQGKLDPVIGRDDEIRRTIQVLQRRTKNNPVIIGEPGVGKTAIVEGLAQRIVNNEVPEGLRGRRVLSLDMGALVAGAKYRGEFEERLKSVLNELAKEEGNVILFIDELHTMVGAGKGEGSMDAGNMLKPALARGELHCVGATTLDEYRQYIEKDAALERRFQKVLVDEPTVEDTVAILRGLKERYELHHHVEITDPAIVAAASLSHRYISDRQLPDKAIDLIDEAASSIRLQIDSKPESLDKLERKIIQLKIEQQALSNEHDEASEKRLQALNDELNEKEREYAELEEVWNTEKAALSGTQHIKSELEQARMDMEFARRAGDLNRMSELQYGRIPELEKQLDLATQAEMQEMTLLRNKVTDNEIAEVLSKQTGIPVSKMLEAEKEKLLRMEDVLHNRVVGQSEAVAVVSNAIRRSRAGLSDPNRPIGSFLFLGPTGVGKTELCKTLASFMFDSEDAMVRIDMSEFMEKHSVARLVGAPPGYVGYEEGGYLTEAVRRKPYSVILLDEVEKAHPDVFNILLQVLDDGRLTDGQGRTVDFRNTVVIMTSNLGSSRIQENFATLDYQGIKSEVMDVVSKHFRPEFLNRVDEIVVFHPLGQEHIKSIASIQLERLAKRLEEKGYQLEVSDKALDLIAQVGFDPVYGARPLKRAIQQNVENPLAKSILAGEIVPDKKVQLIVTNDQILAHQ |
| 881 | sp|Q68XR2|CLPB\_RICTY | MNIDKFTAHAKSVIANHQSLAIKNDHQQILPLHLLSSLLSEETGIIQALINNIGGNIHLLKDQVQLELNKIPKIQVDGGGQIYYSAEDLKVLEKSRSIAKDSGDSFVTIERIFEALTYDNTIAGKILTNNGINSKKLAAAILHLRKGKKADTESAENSYDALKRYGRDVTELAKNGKLDPIIGRDEEIRRAVQVLSRRMKNNPVLIGAPGVGKTAIIEGLAQRIFNKDVPETLINCRIIELDIGALIAGAQYRGEFEKRLKSVLSEIKESSGEIILFIDELHLLVGTGKVEGAMDASNLLKPMLARGELHCIGATTLDEYRKYIEKDAALARRFQPVYVGEPSVEDTISILRGIKEKYELHHAVRISDSAIVAAATLSNRYITDRYLPDKAIDLIDEACSRMKIELSSKPEELDELDRRIIQIKIELAALKKENDEHSKKKITSLTEELKQLDSKSYDMNTKWQAAKSKLQQAQKLKEELEQARIDLDRAERDANLAKASELKYGIIPEIMNKLQAAENMDNKGLLKEIVSESDIASIISRITGIPIDTMLSSERERLLVIEQKLSESVIGQDEAIKGISDAVRRSRSGIQDINRPLGSFLFLGPTGVGKTELTKALAGFLFDDRNALLRIDMSEYMEKHSISRLIGAPPGYIGYDQGGVLTESVRRRPYQVILFDEVEKAHLDIFNIMLQILDEGRLTNSQGITVDFKNTIIVLTSNLGAEILVNQQEDEDTYKVKDEVMQYVRAVFKPEFLNRLDEIILFHRLNRNNIYDIVKIQLGSLKKILLQQNIILEFNESALNYLAEKGYDPSFGARPLKRLIQREIQNNLAKMILAGKISSGNTVKIAREKEELRIEIID |
| 882 | sp|Q8KG79|CLPB1\_CHLTE | MNTADTRQRLLDIEKQIASLREEQATVKAQWEAEKELIHTSRRLKEELEDLRVQAENYERSGDYGKVAEIRYGKIAEIEKALEENNRKIEARQASGDLIMKEEIDAGDIADIVSRWTGIPVSKMLQSERQKLLGIESELHRRVVGQDEAVRAVSDAVKRSRAGMGDEKRPIGSFIFLGPTGVGKTELARTLAEYLFDDEDALIRIDMSEYMEAHTVSRLVGAPPGYVGYEEGGQLTEAVRRKPFSVVLLDEIEKAHPDVFNILLQILDDGRLTDSKGRTVNFKNTIIIMTSNIGAQLIQSEMEHLEGRDADAALAGLKEKLFQLLKQQVRPEFLNRIDEVILFTPLTRENLREIVTIQFNRIKETARRQRITLEISDEALMWLAKTGFDPAFGARPLKRVMQRQITNRLSEMILAGQVGEDDTVEIGLENDAIVMKKK |
| 883 | sp|A0MES8|ABI4\_ARATH | MDPLASQHQHNHLEDNNQTLTHNNPQSDSTTDSSTSSAQRKRKGKGGPDNSKFRYRGVRQRSWGKWVAEIREPRKRTRKWLGTFATAEDAARAYDRAAVYLYGSRAQLNLTPSSPSSVSSSSSSVSAASSPSTSSSSTQTLRPLLPRPAAATVGGGANFGPYGIPFNNNIFLNGGTSMLCPSYGFFPQQQQQQNQMVQMGQFQHQQYQNLHSNTNNNKISDIELTDVPVTNSTSFHHEVALGQEQGGSGCNNNSSMEDLNSLAGSVGSSLSITHPPPLVDPVCSMGLDPGYMVGDGSSTIWPFGGEEEYSHNWGSIWDFIDPILGEFY |
| 884 | sp|G5CTG2|AQP5\_MILTA | MWCFNPRSSIEDLAKIQFWKALGAEFIGTAVLVYIGCGAAVTSTPDANRDAFVTRVSLAFGLTVATMVWAICGVSGGHINPAVSLGFLVTRRISLVRFLLYVAFQCSGAVAGAALLYASTFDSVKRGGFGTNSMATENGQYLISPAQGILIEAIITFVLVFTVFATCDAKRSDLKGSGPLAIGIAVLISHLVAIPLTGTSMNPARSLGPAVLIGFWTDHWVFWVGPMLGGAVAGLLYDMAFAADASLRKFGECAVADDYDPDADDRTIDTKRVNARV |
| 885 | sp|Q9C8Z9|BH148\_ARATH | MASLISDIEPPTSTTSDLVRRKKRSSASSAASSRSSASSVSGEIHARWRSEKQQRIYSAKLFQALQQVRLNSSASTSSSPTAQKRGKAVREAADRALAVSARGRTLWSRAILANRIKLKFRKQRRPRATMAIPAMTTVVSSSSNRSRKRRVSVLRLNKKSIPDVNRKVRVLGRLVPGCGKQSVPVILEEATDYIQALEMQVRAMNSLVQLLSSYGSAPPPI |
| 886 | sp|C1P605|AZUC\_ECOLI | MKLRKILKSMFNNYCKTFKDVPPGNMFR |
| 887 | sp|Q9LVA0|BAG7\_ARATH | MTLFHRLDLIDPYTCTPLIVRETSIVEPSSLFLGFPSFIDEDIEDLFEFSSPNPLDLFETVTDLVKIKKSPSSCKYKVIRRRLEPEYPLKYLCDRVSDLESKFDRLVSPKSDRKYTLTKEIKGSGERKYKWEAEIQGPLERKYKLEAEIEGSGERKYRWTTEIKGGKKDEEGLKLAALKKEKAKAKAIAAAEAEKKKNKNKKKSYNWTTEVKSERENGEVSHTYIIKATTGGEKKKKHEEKEKKEKIETKSKKKEKTRVVVIEEEEEEDDESSEHGAIVLRKAFSRRNGAVRTKKGKNKEMPPEYAAVMIQRAFKAYLIRRSKSLRALRDLAIAKTKLKELRASFHNFSYRRLIARDGEERQKFSEKIIVLLLTVDAIEGVDVMVRGAKRSMVDELEAMLDVVDPQPQGKSLSMRRRTFDMPDSLIRKEIAEGVTQIVQMLETEEE |
| 888 | sp|P0CU52|CAHS2\_PARRC | MEAMNMNIPRDAMFVPPPESEQNGYHEKSEVQQTSYMQSQVKVPHYNFPTPYFTTSFSAQELLGEGFQASISRISAVTEDMQSMEIPEFVEEARRDYAAKTRENEMLGQQYEKELERKSEAYRKHQEVEADKIRKELEKQHMRDIEFRKEIAELAIENQKRMIDLECRYAKKDMDRERTKVRMMLEQQKFHSDIQVNLDSSAAGTESGGHVVSQSEKFTERNREMKR |
| 889 | sp|P24301|CH10\_MYCLE | MAKVKIKPLEDKILVQAGEAETMTPSGLVIPENAKEKPQEGTVVAVGPGRWDEDGAKRIPVDVSEGDIVIYSKYGGTEIKYNGEEYLILSARDVLAVVSK |
| 890 | sp|P19422|CH10\_COXBU | MKIRPLHDRVVVRRLEEERTSAGGIVIPDSAAEKPSRGEVISVGPGKPLDNGEVRSLDVKVGDQILFGKYAGTEVKLAGDEYIVMREDDIMGVIEK |
| 891 | sp|Q8GSA7|CMTA3\_ARATH | MAEARRFSPVHELDVGQILSEARHRWLRPPEICEILQNYQRFQISTEPPTTPSSGSVFMFDRKVLRYFRKDGHNWRKKKDGKTVKEAHERLKAGSVDVLHCYYAHGQDNENFQRRSYWLLQEELSHIVFVHYLEVKGSRVSTSFNRMQRTEDAARSPQETGDALTSEHDGYASCSFNQNDHSNHSQTTDSASVNGFHSPELEDAESAYNQHGSSTAYSHQELQQPATGGNLTGFDPYYQISLTPRDSYQKELRTIPVTDSSIMVDKSKTINSPGVTNGLKNRKSIDSQTWEEILGNCGSGVEALPLQPNSEHEVLDQILESSFTMQDFASLQESMVKSQNQELNSGLTSDRTVWFQGQDMELNAISNLASNEKAPYLSTMKQHLLHGALGEEGLKKMDSFNRWMSKELGDVGVIADANESFTQSSSRTYWEEVESEDGSNGHNSRRDMDGYVMSPSLSKEQLFSINDFSPSWAYVGCEVVVFVTGKFLKTREETEIGEWSCMFGQTEVPADVISNGILQCVAPMHEAGRVPFYVTCSNRLACSEVREFEYKVAESQVFDREADDESTIDILEARFVKLLCSKSENTSPVSGNDSDLSQLSEKISLLLFENDDQLDQMLMNEISQENMKNNLLQEFLKESLHSWLLQKIAEGGKGPSVLDEGGQGVLHFAASLGYNWALEPTIIAGVSVDFRDVNGWTALHWAAFFGRERIIGSLIALGAAPGTLTDPNPDFPSGSTPSDLAYANGHKGIAGYLSEYALRAHVSLLSLNDKNAETVEMAPSPSSSSLTDSLTAVRNATQAAARIHQVFRAQSFQKKQLKEFGDKKLGMSEERALSMLAPKTHKSGRAHSDDSVQAAAIRIQNKFRGYKGRKDYLITRQRIIKIQAHVRGYQFRKNYRKIIWSVGVLEKVILRWRRKGAGLRGFKSEALVEKMQDGTEKEEDDDFFKQGRKQTEDRLQKALARVKSMVQYPEARDQYRRLLNVVNDIQESKVEKALENSEATCFDDDDDLIDIEALLEDDDTLMLPMSSSLWTS |
| 892 | sp|P42644|14333\_ARATH | MSTREENVYMAKLAEQAERYEEMVEFMEKVAKTVDVEELSVEERNLLSVAYKNVIGARRASWRIISSIEQKEESKGNEDHVAIIKDYRGKIESELSKICDGILNVLEAHLIPSASPAESKVFYLKMKGDYHRYLAEFKAGAERKEAAESTLVAYKSASDIATAELAPTHPIRLGLALNFSVFYYEILNSPDRACSLAKQAFDDAIAELDTLGEESYKDSTLIMQLLRDNLTLWTSDMTDEAGDEIKEASKPDGAE |
| 893 | sp|C0SPA5|ADHA\_BACSU | MCNQHQTRVLSVSHAKAKFEQTTIERRGLRPHDVLIDIKFSGICHSDIHSAFDEWGGGIFPMVPGHEIAGVVTAVGTKVTKLAVGDRVGVGCFVDSCGECEYCLNAEEQFCTKGVVQTYNSVDYDGNPTYGGYSQKIVVTDRFVVRIPDRLEMDVASPLLCAGITTYSPLKHWNVGPGKKVAIVGVGGLGHLAIQFAHAMGAEVTVLSRSMNKKEEALELGANHYFATSDPATFTALAGRFDVILNTVSANLDVDAYLSMLRIDGTLVSVGAPAKPDTYSVFSLIMGRRSIAGSLVGGIQETQEMLDFAAEHGIEPKIEVIGADQVDEAYERILRSDVRYRFVIDISTL |
| 894 | sp|Q69TW5|BZP46\_ORYSJ | MELPADGSALARQGSIYSLTFDEFQSALGSAEKDFGSMNMDELLRNIWTAEESQAIAPAAAAASAAAVVGDAQQQQQPIQRQGSLTLPRTLSQKTVDEVWRDIMGLGGSDDEDPAAAAAAAAPAQRQPTLGEMTLEEFLVRAGVVREDMGQTIVLPPQAQALFPGSNVVAPAMQLANGMLPGVVGVAPGAAAAMTVAAPATPVVLNGLGKVEGGDLSSLSPVPYPFDTALRVRKGPTVEKVVERRQRRMIKNRESAARSRARKQAYIMELEAEVAKLKEQKAELQKKQVEMIQKQNDEVMERITQQLGPKAKRFCLRRTLTGPC |
| 895 | sp|P16474|BIP\_YEAST | MFFNRLSAGKLLVPLSVVLYALFVVILPLQNSFHSSNVLVRGADDVENYGTVIGIDLGTTYSCVAVMKNGKTEILANEQGNRITPSYVAFTDDERLIGDAAKNQVAANPQNTIFDIKRLIGLKYNDRSVQKDIKHLPFNVVNKDGKPAVEVSVKGEKKVFTPEEISGMILGKMKQIAEDYLGTKVTHAVVTVPAYFNDAQRQATKDAGTIAGLNVLRIVNEPTAAAIAYGLDKSDKEHQIIVYDLGGGTFDVSLLSIENGVFEVQATSGDTHLGGEDFDYKIVRQLIKAFKKKHGIDVSDNNKALAKLKREAEKAKRALSSQMSTRIEIDSFVDGIDLSETLTRAKFEELNLDLFKKTLKPVEKVLQDSGLEKKDVDDIVLVGGSTRIPKVQQLLESYFDGKKASKGINPDEAVAYGAAVQAGVLSGEEGVEDIVLLDVNALTLGIETTGGVMTPLIKRNTAIPTKKSQIFSTAVDNQPTVMIKVYEGERAMSKDNNLLGKFELTGIPPAPRGVPQIEVTFALDANGILKVSATDKGTGKSESITITNDKGRLTQEEIDRMVEEAEKFASEDASIKAKVESRNKLENYAHSLKNQVNGDLGEKLEEEDKETLLDAANDVLEWLDDNFETAIAEDFDEKFESLSKVAYPITSKLYGGADGSGAADYDDEDEDDDGDYFEHDEL |
| 896 | sp|Q05971|CH10\_SYNY3 | MAAISINVSTVKPLGDRVFVKVSPAEEKTAGGILLPDNAKEKPQIGEVVQVGPGKRNDDGTYSPVEVKVGDKVLYSKYAGTDIKLGGDDYVLLTEKDILASVA |
| 897 | sp|P0A013|CH10\_STAAW | MLKPIGNRVIIEKKEQEQTTKSGIVLTDSAKEKSNEGVIVAVGTGRLLNDGTRVTPEVKEGDRVVFQQYAGTEVKRDNETYLVLNEEDILAVIE |
| 898 | sp|Q6ETK9|ADPO2\_ORYSJ | MQGAASHDAAAAAAAAAVLGGGHGVPRWPRMVFLVGAMTCLAISATAHLLACHSRRASVVFWQLDYAGISAMIVASFVPPVYYAFLCHRPARVAYLSAISALGALVVGALLSPPCSSPRFRRLRAALFLAMGLSGVVPALHALWLNWGHAACYLALSLEVAMGLAYAAGAWFYVSRVPEKWRPGVFDVVGHSHQIFHVLVLVGAVTHYVAVDVLLNWRETVAAACSATS |
| 899 | sp|Q6BZH1|BIP\_DEBHA | MLKVNSRFWISGFTLAYVLLAVILPLLTPNQGQALAAEGETDNDTESYGTVIGIDLGTTYSCVGVMKNGKVEILANDQGNRITPSYVAFTPEERLIGDAAKNQASSNVENTVFDIKRLIGLKYNDKMVQKEIKHLPYKIDKKDGKPVVKVEFNDETKTFSPEEISGMILTKMKSIAEEYMGKKITHAVVTVPAYFNDAQRQATKDAGTIAGLNVLRIVNEPTAAAIAYGLDKTEGEKQIIVYDLGGGTFDVSLLSIEGGVFEVLATAGDTHLGGEDFDFKVVRYLSSVFKKKHNIDISGNSKAISKLKRETEKAKRTLSSQMSTRIEIDSFVDGIDFSETLSRAKFEELNIESFKKTLKPVQQVLKDAGFKKSDVDDIVLVGGSTRIPKVQELLEKFFDGKKASKGINPDEAVAYGAAVQAGVLSGEEGVHDIVLLDVNPLTLGIETTGGVMTTLINRNTAIPTKKSQIFSTAADNQPTVLIQVFEGERALAKDNNKLGKFELTSIPPAPRGVPQIEVTFSLDANGILKVEAMDKGTGKSESITITNDKGRLSKEDIDRMVEEAEKYAEQDSELKAKIESRNSLENYAHMLKGQVKDESENGLGSKLNDDDKETLDDAIKETLEFIEDNYDSATSEEFEEQKQKLIDVASPITSKLYGGGAGGADEAQFGDDDSDDEFVHDEL |
| 900 | sp|Q9C5X4|ATX1\_ARATH | MACFSNETQIEIDVHDLVEAPIRYDSIESIYSIPSSALCCVNAVGSHSLMSKKVKAQKLPMIEQFEIEGSGVSASDDCCRSDDYKLRIQRPEIVRVYYRRRKRPLRECLLDQAVAVKTESVELDEIDCFEEKKRRKIGNCELVKSGMESIGLRRCKENNAFSGNKQNGSSRRKGSSSKNQDKATLASRSAKKWVRLSYDGVDPTSFIGLQCKVFWPLDALWYEGSIVGYSAERKRYTVKYRDGCDEDIVFDREMIKFLVSREEMELLHLKFCTSNVTVDGRDYDEMVVLAATLDECQDFEPGDIVWAKLAGHAMWPAVIVDESIIGERKGLNNKVSGGGSLLVQFFGTHDFARIKVKQAISFIKGLLSPSHLKCKQPRFEEGMQEAKMYLKAHRLPERMSQLQKGADSVDSDMANSTEEGNSGGDLLNDGEVWLRPTEHVDFRHIIGDLLIINLGKVVTDSQFFKDENHIWPEGYTAMRKFTSLTDHSASALYKMEVLRDAETKTHPLFIVTADSGEQFKGPTPSACWNKIYNRIKKVQNSDSPNILGEELNGSGTDMFGLSNPEVIKLVQDLSKSRPSSHVSMCKNSLGRHQNQPTGYRPVRVDWKDLDKCNVCHMDEEYENNLFLQCDKCRMMVHAKCYGELEPCDGALWLCNLCRPGAPDMPPRCCLCPVVGGAMKPTTDGRWAHLACAIWIPETCLSDVKKMEPIDGVNKVSKDRWKLMCTICGVSYGACIQCSNNSCRVAYHPLCARAAGLCVELENDMSVEGEEADQCIRMLSFCKRHRQTSTACLGSEDRIKSATHKTSEYLPPPNPSGCARTEPYNCFGRRGRKEPEALAAASSKRLFVENQPYVIGGYSRLEFSTYKSIHGSKVSQMNTPSNILSMAEKYRYMRETYRKRLAFGKSGIHGFGIFAKLPHRAGDMMIEYTGELVRPSIADKREQLIYNSMVGAGTYMFRIDDERVIDATRTGSIAHLINHSCVPNCYSRVITVNGDEHIIIFAKRHIPKWEELTYDYRFFSIGERLSCSCGFPGCRGVVNDTEAEEQHAKICVPRCDLIDWTAE |
| 901 | sp|P0A106|CAPB\_PSEFR | MSNRQTGTVKWFNDEKGFGFITPQSGDDLFVHFKAIQSDGFKSLKEGQQVSFIATRGQKGMQAEEVQVI |
| 902 | sp|Q9XEE6|C3H29\_ARATH | MCGAKSNLCSSKTLTEVEFMRQKSEDGASATCLLEFAACDDLSSFKREIEENPSVEIDESGFWYCRRVGSKKMGFEERTPLMVAAMYGSMEVLNYIIATGRSDVNRVCSDEKVTALHCAVSGCSVSIVEIIKILLDASASPNCVDANGNKPVDLLAKDSRFVPNQSRKAVEVLLTGIHGSVMEEEEEELKSVVTKYPADASLPDINEGVYGTDDFRMFSFKVKPCSRAYSHDWTECPFVHPGENARRRDPRKYPYTCVPCPEFRKGSCPKGDSCEYAHGVFESWLHPAQYRTRLCKDETGCARRVCFFAHRRDELRPVNASTGSAMVSPRSSNQSPEMSVMSPLTLGSSPMNSPMANGVPLSPRNGGLWQNRVNSLTPPPLQLNGSRLKSTLSARDMDMEMELRFRGLDNRRLGDLKPSNLEETFGSYDSASVMQLQSPSRHSQMNHYPSSPVRQPPPHGFESSAAMAAAVMNARSSAFAKRSLSFKPAPVASNVSDWGSPNGKLEWGMQRDELNKLRRSASFGIHGNNNNSVSRPARDYSDEPDVSWVNSLVKENAPERVNERVGNTVNGAASRDKFKLPSWAEQMYIDHEQQIVA |
| 903 | sp|D4A4T9|CHRD1\_RAT | MALLCYNRGCGQRFDPEANADDACTYHPGVPVFHDALKGWSCCKRRTTDFSDFLSIVGCTKGRHNSEKPPEPVKPEVKTTEKKELSELKPKFQEHIIQAPKPVEAIKRPSPDEPMTNLELKISASLKQALDKLKLSSGNEEDKKEEDSDEIKIGTSCKNGGCSKTYQGLQSLEEVCVYHSGVPIFHEGMKYWSCCRRKTSDFNTFLAQEGCTRGKHVWTKKDAGKKVVPCRHDWHQTGGEVTISVYAKNSLPELSQVEANSTLLNVHIVFEGEKEFHQNVKLWGVIDVKRSYVTMTATKIEITMRKAEPMQWASLELPTTKKQEKQKDIAD |
| 904 | sp|P80469|CH10\_RICTY | MSFKPLHDRIAIKPIENEEKTKGGIIIPDTAKEKPMQGEIVAVGNGVLNKNGEIYPLELKVGDKVLYGKWAGTEIEIKGEKLIVMKESDVFGIIN |
| 905 | sp|Q9M9E1|AB40G\_ARATH | MEGTSFHQASNSMRRNSSVWKKDSGREIFSRSSREEDDEEALRWAALEKLPTFDRLRKGILTASHAGGPINEIDIQKLGFQDTKKLLERLIKVGDDEHEKLLWKLKKRIDRVGIDLPTIEVRFDHLKVEAEVHVGGRALPTFVNFISNFADKFLNTLHLVPNRKKKFTILNDVSGIVKPGRMALLLGPPSSGKTTLLLALAGKLDQELKQTGRVTYNGHGMNEFVPQRTAAYIGQNDVHIGEMTVRETFAYAARFQGVGSRYDMLTELARREKEANIKPDPDIDIFMKAMSTAGEKTNVMTDYILKILGLEVCADTMVGDDMLRGISGGQKKRVTTGEMLVGPSRALFMDEISTGLDSSTTYQIVNSLRNYVHIFNGTALISLLQPAPETFNLFDDIILIAEGEIIYEGPRDHVVEFFETMGFKCPPRKGVADFLQEVTSKKDQMQYWARRDEPYRFIRVREFAEAFQSFHVGRRIGDELALPFDKTKSHPAALTTKKYGVGIKELVKTSFSREYLLMKRNSFVYYFKFGQLLVMAFLTMTLFFRTEMQKKTEVDGSLYTGALFFILMMLMFNGMSELSMTIAKLPVFYKQRDLLFYPAWVYSLPPWLLKIPISFMEAALTTFITYYVIGFDPNVGRLFKQYILLVLMNQMASALFKMVAALGRNMIVANTFGAFAMLVFFALGGVVLSRDDIKKWWIWGYWISPIMYGQNAILANEFFGHSWSRAVENSSETLGVTFLKSRGFLPHAYWYWIGTGALLGFVVLFNFGFTLALTFLNSLGKPQAVIAEEPASDETELQSARSEGVVEAGANKKRGMVLPFEPHSITFDNVVYSVDMPQEMIEQGTQEDRLVLLKGVNGAFRPGVLTALMGVSGAGKTTLMDVLAGRKTGGYIDGNITISGYPKNQQTFARISGYCEQTDIHSPHVTVYESLVYSAWLRLPKEVDKNKRKIFIEEVMELVELTPLRQALVGLPGESGLSTEQRKRLTIAVELVANPSIIFMDEPTSGLDARAAAIVMRTVRNTVDTGRTVVCTIHQPSIDIFEAFDELFLLKRGGEEIYVGPLGHESTHLINYFESIQGINKITEGYNPATWMLEVSTTSQEAALGVDFAQVYKNSELYKRNKELIKELSQPAPGSKDLYFPTQYSQSFLTQCMASLWKQHWSYWRNPPYTAVRFLFTIGIALMFGTMFWDLGGKTKTRQDLSNAMGSMYTAVLFLGLQNAASVQPVVNVERTVFYREQAAGMYSAMPYAFAQVFIEIPYVLVQAIVYGLIVYAMIGFEWTAVKFFWYLFFMYGSFLTFTFYGMMAVAMTPNHHIASVVSSAFYGIWNLFSGFLIPRPSMPVWWEWYYWLCPVAWTLYGLIASQFGDITEPMADSNMSVKQFIREFYGYREGFLGVVAAMNVIFPLLFAVIFAIGIKSFNFQKR |
| 906 | sp|Q8RWG1|AB1K1\_ARATH | MESIHCNSLLNPNFSLNQRRRRINHAVLNRRDALLRSLNAVELRRSRTFSAVRTSNFSVTAAATDVGGRNSTDASVMTTAMSGVERGVRVGKSSSALEQLDIERGVCVPFRKYSPETVRSKVLESRGAVVSLVSRGVEIVWTLGLYWSTLTYDFLVGRDEEVVPFRARQLRNLLCNLGPSFIKAGQVLANRPDIIREDYMNELCILQDDVPPFPNEVAFNIIEEELGQPLENIFSKISSQTIAAASLGQVYRATLRATGEDVAIKVQRPQIEPIIYRDLFLFRTLASFLNGFSLQKLGCNAELIVDEFGEKLLEELDYTLEARNIEDFLENFKDDPTVKIPGVYKNLCGPRVLVMEWIDGIRCTDPQAIKDAGIDLNGFLTVGVSAALRQLLEFGLFHGDPHPGNIFAMQDGRIAYVDFGNVAVLSQQNKQILIDAVVHAVNEDYGEMANDFTRLGFLAKDTDVSPIVPALEAIWQNSAGKGLADFNFRSVTGQFNKLVYDFPIRIPERFSLVIRSLLTQEGICFTLKPDFKFLEVAYPYVAKRLLTDPNPALRERLIQVLFKDGVFQWKRLENLLSLAKENVAKMSSNPNLRVKRVESKLDLTDTIKDGARLFLLDEGIRRKLILALTEDSKLHVEELVDVYRLVEDEVDIPTLAMQVVQDLPNVFRDFVLSWSNSVLSDR |
| 907 | sp|Q861Y5|ANGI\_COLGU | MVMGLGLFLLVFLLGLGLTPPTLALDNPRYRDFLTKHYDATPQGRNDRYCESKMRKLGLTSPCKAINTFIHGNSRHIKAICRDENGNPYGENLRISKSPFQVTTCNLRGGSPRPPCRYRATAGFRNIVVACENDLPVHLDQSIFRP |
| 908 | sp|Q2U616|ATFB\_ASPOR | MSVDQTLYSRTPTAMADPTCAGPAAFTAAGAFSQPDLMAFSLREEEPIWGFDTIAPSMASWQGKMEQQTFCNPNMERGLKNTHVRNGQPTPPPFDDKKLQTPMGEMYPVAQYAFNSSPPEYAPPKHRSSLSEQSQTDGYGVSTRRRKASAIDQCEQQQEREKREKFLERNRLAASKCRQKKKEHTKLLETRFREVSNKKGELESEIEHLRSEVLNLKNEMLRHAQCGDEAIKIHLAQMVRLITSKDTPNRDLVSPMRSPEQMAASTPHGLSFGFDGPMQLPSEMGSPLDQRRDSEQSIMTESSYTFSTDDSFEELINV |
| 909 | sp|Q75HQ0|BIP4\_ORYSJ | MARPRRASTATTMQLGLLLAALLLFTSSLAGSVAAAAPPPPAGAKGGGAKSGGGGGTVIGIDLGTTYSCVGVYRNDRVEIIANDQGNRITPSWVAFTDGGERLIGEAAKNQAAANPERTIYDAKRLIGRQFSDAEVQRDMKLLPFAVVDRNGKPHVRVEVKDGDVRVFSPEEVSAMVLTRMKETAEAYLGEKVTRAVVTVPAYFNDAQRQATKDAGVIAGLTVDRIINEPTAAAIAYGIDKKGAEKNVLVFDLGGGTFDVSILAIDNGVFEVLATNGDTHLGGEDFDQRLMDHFVKVIRRKHGRDIAGDARALGKLRRECERAKRALSNQHQVRVEIESLFDGVDFSEPLSRARFEELNGDLFKKTMVPVRKAMADAGLGKGDIDEIVLVGGSTRIPKVQQLLKDYFGGKEPNRGVNPDEAVAYGAAVQASIISGHVDENTESMILLDVAPLTLGLETAGGVMTKLIPRNTVVPTKKTQVFTTYKDRQTTVTIQVFEGERSMTRDNRLLGKFDLTGIAPAPRGAPQIAVTFEVDANGILSVLAADKATGRSEKITISGDDRKISQEEIDRMVREAEEFADEDRRHREQVDARNSLEAYVYNVKSTLGGKMADAMEGEEKEKVEEAVREAHEWLDGNPDAGKEEYEEKLRELEDVCNPVMSAVYQRSGGGGGAPEDGNVDDEDDHDEL |
| 910 | sp|P56976|BLR\_ECOLI | MNRLIELTGWIVLVVSVILLGVASHIDNYQPPEQSASVQHK |
| 911 | sp|P0ABE2|BOLA\_ECOLI | MMIRERIEEKLRAAFQPVFLEVVDESYRHNVPAGSESHFKVVLVSDRFTGERFLNRHRMIYSTLAEELSTTVHALALHTYTIKEWEGLQDTVFASPPCRGAGSIA |
| 912 | sp|Q9FGF8|ABR1\_ARATH | MCVLKVANQEDNVGKKAESIRDDDHRTLSEIDQWLYLFAAEDDHHRHSFPTQQPPPSSSSSSLISGFSREMEMSAIVSALTHVVAGNVPQHQQGGGEGSGEGTSNSSSSSGQKRRREVEEGGAKAVKAANTLTVDQYFSGGSSTSKVREASSNMSGPGPTYEYTTTATASSETSSFSGDQPRRRYRGVRQRPWGKWAAEIRDPFKAARVWLGTFDNAESAARAYDEAALRFRGNKAKLNFPENVKLVRPASTEAQPVHQTAAQRPTQSRNSGSTTTLLPIRPASNQSVHSQPLMQSYNLSYSEMARQQQQFQQHHQQSLDLYDQMSFPLRFGHTGGSMMQSTSSSSSHSRPLFSPAAVQPPPESASETGYLQDIQWPSDKTSNNYNNSPSS |
| 913 | sp|Q9LZP8|BZP53\_ARATH | MGSLQMQTSPESDNDPRYATVTDERKRKRMISNRESARRSRMRKQKQLGDLINEVTLLKNDNAKITEQVDEASKKYIEMESKNNVLRAQASELTDRLRSLNSVLEMVEEISGQALDIPEIPESMQNPWQMPCPMQPIRASADMFDC |
| 914 | sp|P0CT51|BLP1\_CANAL | MDFKRKLSEVDADAAEDVKMDMGATIIPQRERATSVIEDFLHQENSELKKSLKNLEMENEKLKNILKTDYNVNYIRK |
| 915 | sp|P0ABC9|BETT\_ECOLI | MTDLSHSREKDKINPVVFYTSAGLILLFSLTTILFRDFSALWIGRTLDWVSKTFGWYYLLAATLYIVFVVCIACSRFGSVKLGPEQSKPEFSLLSWAAMLFAAGIGIDLMFFSVAEPVTQYMQPPEGAGQTIEAARQAMVWTLFHYGLTGWSMYALMGMALGYFSYRYNLPLTIRSALYPIFGKRINGPIGHSVDIAAVIGTIFGIATTLGIGVVQLNYGLSVLFDIPDSMAAKAALIALSVIIATISVTSGVDKGIRVLSELNVALALGLILFVLFMGDTSFLLNALVLNVGDYVNRFMGMTLNSFAFDRPVEWMNNWTLFFWAWWVAWSPFVGLFLARISRGRTIRQFVLGTLIIPFTFTLLWLSVFGNSALYEIIHGGAAFAEEAMVHPERGFYSLLAQYPAFTFSASVATITGLLFYVTSADSGALVLGNFTSQLKDINSDAPGWLRVFWSVAIGLLTLGMLMTNGISALQNTTVIMGLPFSFVIFFVMAGLYKSLKVEDYRRESANRDTAPRPLGLQDRLSWKKRLSRLMNYPGTRYTKQMMETVCYPAMEEVAQELRLRGAYVELKSLPPEEGQQLGHLDLLVHMGEEQNFVYQIWPQQYSVPGFTYRARSGKSTYYRLETFLLEGSQGNDLMDYSKEQVITDILDQYERHLNFIHLHREAPGHSVMFPDA |
| 916 | sp|P0AB40|BHSA\_ECOLI | MKNVKTLIAAAILSSMSFASFAAVEVQSTPEGQQKVGTISANAGTNLGSLEEQLAQKADEMGAKSFRITSVTGPNTLHGTAVIYK |
| 917 | sp|P26195|CH10\_TATMI | MKIRPLHDRVVVRRMEEERTTAGGIVIPDSATEKPTRGEIIAVGPGKVLENGDVRALAVKVGDVVLFGKYSGTEVKISGQELVVMREDDIMGVIEK |
| 918 | sp|P42386|CH10\_EHRCH | MNLNMLHDNVLIEALEECNSSSPIQLPDSAKKKPTQGKVVAVGPGVYNHSGNILPMTIKVGDVVFYRQWAGNEIEFHEKKYIVMKESDIIAKEA |
| 919 | sp|P69204|CH60\_TROWH | MAKKITFNEDARRGLERGLNTLADTVKVTLGPRGRNVVLEKKWGAPVITNDGVTIAKEIELDDPYEKIGAELVKEVAKKTDDVAGDGTTTSVVLAQAMVREGLKNVAAGADPISLRRGIEKSVAAVSKALLTSAKEVETEAEIAACASISAGDPQIGDIIAQALEKVGKEGVVTVEESNTFGTELEITEGMRFDKGYLSAYFVTDAERQETVFENPYILICDSKISSVKDLLPVVDKVIQSGKQLLIIAEDVDGEALATLVVNKIRGIFKSVAVKAPGFGDRRKMMLQDIAVLTGGQVISEEVGLKLENATLDLLGRARKVVVSKDETTIVDGAGSSDQIAGRVSQIRKELENSDSDYDREKLQERLAKLSGGVAVIRSGAATEVELKERKHRIEDAVRNAKAAVEEGIVAGGGAALLQSGTSALKDLQLTSEEAVGRNIVRSAIEAPLRQISLNAGLEPGVVVGKVSSLPQGHGLDASTGEYVDMLSRGISDPVKVTRSALENAASIAGLFLTTEAVVAEKPEPKPAPGPADPGAGMDF |
| 920 | sp|O23463|CMTA5\_ARATH | MAGVDSGKLIGSEIHGFHTLQDLDIQTMLDEAYSRWLRPNEIHALLCNHKFFTINVKPVNLPKSGTIVLFDRKMLRNFRKDGHNWKKKKDGKTIKEAHEHLKVGNEERIHVYYAHGEDTPTFVRRCYWLLDKSQEHIVLVHYRETHEVHAAPATPGNSYSSSITDHLSPKIVAEDTSSGVHNTCNTGFEVRSNSLGSRNHEIRLHEINTLDWDELLVPADISNQSHPTEEDMLYFTEQLQTAPRGSVKQGNHLAGYNGSVDIPSFPGLEDPVYQNNNSCGAGEFSSQHSHCGVDPNLQRRDFSATVTDQPGDALLNNGYGSQDSFGRWVNNFISDSPGSVDDPSLEAVYTPGQDSSTPPTVFHSHSDIPEQVFNITDVSPAWAYSTEKTKILVTGFFHDSFQHLGRSNLICICGELRVPAEFLQMGVYRCFLPPQSPGVVNLYLSVDGNKPISQLFSFEHRSVQFIEKAIPQDDQLYKWEEFEFQVRLAHLLFTSSNKISVLTSKISPENLLEAKKLASRTSHLLNSWAYLMKSIQANEVPFDQARDHLFELTLKNRLKEWLLEKVIENRNTKEYDSKGLGVIHLCAVLGYTWSILLFSWANISLDFRDKQGWTALHWAAYYGREKMVAALLSAGARPNLVTDPTKEFLGGCTAADLAQQKGYDGLAAFLAEKCLVAQFKDMQTAGNISGNLETIKAEKSSNPGNANEEEQSLKDTLAAYRTAAEAAARIQGAFREHELKVRSSAVRFASKEEEAKNIIAAMKIQHAFRNFEVRRKIAAAARIQYRFQTWKMRREFLNMRKKAIRIQAAFRGFQVRRQYQKITWSVGVLEKAILRWRLKRKGFRGLQVSQPDEKEGSEAVEDFYKTSQKQAEERLERSVVKVQAMFRSKKAQQDYRRMKLAHEEAQLEYDGMQELDQMATEES |
| 921 | sp|Q9XIE2|AB36G\_ARATH | MDYNPNLPPLGGGGVSMRRSISRSVSRASRNIEDIFSSGSRRTQSVNDDEEALKWAAIEKLPTYSRLRTTLMNAVVEDDVYGNQLMSKEVDVTKLDGEDRQKFIDMVFKVAEQDNERILTKLRNRIDRVGIKLPTVEVRYEHLTIKADCYTGNRSLPTLLNVVRNMGESALGMIGIQFAKKAQLTILKDISGVIKPGRMTLLLGPPSSGKTTLLLALAGKLDKSLQVSGDITYNGYQLDEFVPRKTSAYISQNDLHVGIMTVKETLDFSARCQGVGTRYDLLNELARREKDAGIFPEADVDLFMKASAAQGVKNSLVTDYTLKILGLDICKDTIVGDDMMRGISGGQKKRVTTGEMIVGPTKTLFMDEISTGLDSSTTFQIVKCLQQIVHLNEATVLMSLLQPAPETFDLFDDIILVSEGQIVYQGPRDNILEFFESFGFKCPERKGTADFLQEVTSKKDQEQYWVNPNRPYHYIPVSEFASRYKSFHVGTKMSNELAVPFDKSRGHKAALVFDKYSVSKRELLKSCWDKEWLLMQRNAFFYVFKTVQIVIIAAITSTLFLRTEMNTRNEGDANLYIGALLFGMIINMFNGFAEMAMMVSRLPVFYKQRDLLFYPSWTFSLPTFLLGIPSSILESTAWMVVTYYSIGFAPDASRFFKQFLLVFLIQQMAASLFRLIASVCRTMMIANTGGALTLLLVFLLGGFLLPKGKIPDWWGWAYWVSPLTYAFNGLVVNEMFAPRWMNKMASSNSTIKLGTMVLNTWDVYHQKNWYWISVGALLCFTALFNILFTLALTYLNPLGKKAGLLPEEENEDADQGKDPMRRSLSTADGNRRGEVAMGRMSRDSAAEASGGAGNKKGMVLPFTPLAMSFDDVKYFVDMPGEMRDQGVTETRLQLLKGVTGAFRPGVLTALMGVSGAGKTTLMDVLAGRKTGGYIEGDVRISGFPKVQETFARISGYCEQTDIHSPQVTVRESLIFSAFLRLPKEVGKDEKMMFVDQVMELVELDSLRDSIVGLPGVTGLSTEQRKRLTIAVELVANPSIIFMDEPTSGLDARAAAIVMRAVRNTVDTGRTVVCTIHQPSIDIFEAFDELMLMKRGGQVIYAGPLGQNSHKVVEYFESFPGVSKIPEKYNPATWMLEASSLAAELKLSVDFAELYNQSALHQRNKALVKELSVPPAGASDLYFATQFSQNTWGQFKSCLWKQWWTYWRSPDYNLVRFIFTLATSLLIGTVFWQIGGNRSNAGDLTMVIGALYAAIIFVGINNCSTVQPMVAVERTVFYRERAAGMYSAMPYAISQVTCELPYVLIQTVYYSLIVYAMVGFEWKAEKFFWFVFVSYFSFLYWTYYGMMTVSLTPNQQVASIFASAFYGIFNLFSGFFIPRPKIPKWWIWYYWICPVAWTVYGLIVSQYGDVETRIQVLGGAPDLTVKQYIEDHYGFQSDFMGPVAAVLIAFTVFFAFIFAFCIRTLNFQTR |
| 922 | sp|Q69SV0|APX8\_ORYSJ | MAERIAASLLPAASPSPAPSPPPPRPRVSAAAAASFPCCSTSAGGLRLRSRPSRFPQKAATTRSGRAGAGARAVVRCMAAAAVAASDAAQLKSAREDIREILKTTYCHPIMVRLGWHDSGTYDKNIEEWPQRGGADGSLRFDAELSHGANAGLINALKLIQPIKDKYPGITYADLFQLASATAIEEAGGPKIPMKYGRVDVTAAEQCPPEGRLPDAGPRVPADHLREVFYRMGLDDKEIVALSGAHTLGRSRPDRSGWGKPETKYTKDGPGEPGGQSWTVEWLKFDNSYFKDIKEQRDQDLLVLPTDAALFEDPSFKVYAEKYAEDQEAFFKDYAEAHAKLSDLGAKFDPPEGFSLDDEPAVEEKDPEPAPAPAAAPPPPPVEEKKEAEPTPVPVTVGAAVASSPADDNNGAAPQPEPFVAAKYSYGKKELSDSMKQKIRAEYEGFGGSPDKPLQSNYFLNIMLLIGGLAFLTSLLGS |
| 923 | sp|Q9P7J7|ADA2\_SCHPO | MPPQKYHCNVCAQDITRSIHIRCVECVDFDLCIPCFTSGASLGTHHPSHPYRIIETNSYPIFDENWGADEELLLIDACETLGLGNWADIADYVGNARTKEECRDHYLKTYIESDCYPLASVELPGPVDRIAFAARKRARIEAFQPPPIIPQKPLASTPQCHEIQGYMPGRLEFDQEYMNEAELPIKDMNFDDDLHESAKHEMQLKLTMLNIYNSRLTRRAVRKQTIFNHNLLDYRRLQANEKRMSKEERNLLNKTKAFARLLTGPDYQKFVNSYHEQITLKKQISDLQEWRQMGLTTLEQGHKYERDKTQKFLLSKASASYDKQLRHVKSFNQTTSAPFQVRDIQKIVPRKPATPTMFSASADRQLLSEDEQALCSKLQIFPKPFLALKFALISASLTSKKPFQKTDAVNLFKHLDANKVEQVYDFFHNARWIGAPT |
| 924 | sp|F8S296|ATG2\_ARATH | MVFPWNIAKSAEEAFSRWAVKRVVKFLLKKKLGKLILGDIDLDQLDIQLRDGTIQLSDLAINVDYLNDKFDAPLVIKEGSIGSLLVKMPWKTNGCQVEVDELELVLAPRLESNKSSSNEASTSASTREDLHNIRLEIGKHENEMLMNAAKSASIDVHEGVKTVAKIVKWFLTSFHVKIKNLIIAFDPDFGKKQSEAGPRPTLVLRMTEIECGISEEQVSANEVSPDNFLGINRLANCVKFQGAVVELLNMDDDDDGDKTCDKKTSNDVTLIMTGVGGGFSGSLNFSIPWKNGSLDIRKVDADISIDPVEVRFQPSTIRWFLQLWKTFTSFGSDCFPSVSHSDFLTDSPTIPTNVMVTPPATLSLSGGQELEHDTTPNLQFIPDWFPSSFSKKEEDGEVDIGASVDQFFECFDAMRSYQSASGSQGMWNWTSSVFTAINAASSLASGSLLLPSEQQHVETSCKVSFAGVSVVLFFQDEVNWKGVSTRIHYLGAELRDISVSFQVCLHDLRLEGEVNSMEIADYCQGGNVVDTANAESQTCLIKDLQAKVQTSLPPFASSDMHSDSERLSEIVSDGFLFRNKGFAVKTLLVIAAGGSGFQFTVNFQSSKASHRGSNSFSLSLPPTTFWLNLHSVEMLVNLFNDVSESIPITSHERNQVASSSKSESLRGSVSICNARVILWFPFESISERFCNSLGQQFIVVDLSSSPPSDKERAKERSPGEMHFPSATRSICFSVGDASIYLVTSDLKDSETNSYHRQVEFSAYNILHTNNKTRHQLSTIGMFWQDRPTVSPWLVERAKMLATQEESIQTDKSGGRGLEFAAVATPKDQDDIYSRSRKEIILASSFCLYVHLLPLAIHLDSWQYSKLCNLIEEAKNWLSRMAANTAEQTEESVVCQTSLVVDCDSIDILVRPEPRMGIKKQLQTELPGSWIQFNLRVQKLNLMSVPNLGSVSGADFFWLAHGEGTLLGSVTGLPDQELLLLSCNNSAIKRGNGGGSNALSSRFAGLDFLHLQEPGICNDYLAVSARGCTISAVGGRLDWIEVATSFFSFEDEKKTQEINSSSSSGSSFILNFVDVGLSYEPHHENTDHLRQASDPWVACLVAASSFSLSKKSLVDSIRNDYRIRIQDLGLLLSVDFDLSKLGGTYSSEHLHESGYVKVANDSLIEAILRTNSENGLLWELECSKSHLVIETCSDTTSGLIRLATQLQQLLAPDLEESAVHLQTRWDSIQQANARNDLDISDRLSSSDSSGEMKYLRLESENETGVIGLMDEINEDAFQFDVNPTYQSDSVECQNNYMSPHGISHGQAYNWVPATEKLPSNQSICGSSSRINSESSQVFLERESLPEIFENYCLSEFRPSSEVPQEGDSSGRELFPETDLRRGNSGWYDDASLRIVEDHVSEATEEDHEEHILDGECSSFGQTSYSAVAANGRILLKNIDLKWRIYSGSDWHDSRKKGENFKHTKGRDTTSCLELELSGVQFLYETFPIGEICTSKLSLMVQDFYLYDRSDNAPWTLVLGYYNSKDHPRDSSSYAFKLELKAVRPDPETPLEENRLRVALLPILLHLHQSQLDFLISFFGANSLEKPVVSMGDSGGSTMSVSVQGHNIIEEALLPYFQKFDIWPVNVRVDYSPHHVDIAALTGGKYAELVNLVPWKGIELQLKHVHAAGIYGWGNVCETILGEWLEDVSQNQIHQLLKGIPTVRSLSALYAAALKLVSSPVESYRKDRRLVKGVQRGTVAFLRSISLEAVGLGVHLAAGAHDILLRAEYIFASSPSLPQPQGRTKTNVRHNQPRNAKQGMLKACESIGDGIGKTASALVRTPLKKYQRGDGAGSAFATVVQGVPTAAIAPASACARAVHSALVGIRNSLDPEHKKESMEKYLGPDKQRKQDQHR |
| 925 | sp|Q9P3T9|BSD2\_SCHPO | MSTNSNQNSIHTPIPEFPENRSTNRSELAAAFEPPDDDVEYSETAPLYSSARASIEGEEAFYQHLSTPDPGNDSGHVRSSNDRIPSTSSNHADGHHVDSVFSNLSAKPTVESNTEELEEEPPSYEQAAADTAPPYWDTTMVIPDYGSNEIYIDGMSVGTGFSFVWSACVAILFPFVGFLVTYVLSTTHLGRYGAQIGLSLTLFQRGYIMISESGMENNDDQYNYDELPHQKLIGSILIIIGWCLVLVDTFGFIRIRRMKNAISRTDSPGETSPEEVV |
| 926 | sp|Q24120|CAPU\_DROME | MALQLGKKLAQVLGSGAGSPLTPGTMEPCAAGSGSPLANGELFNVSKAKKVELQNLSSRFTAAVTQTPPGVTSSTPNESGVTGPAGPLGATTSSPSLETQSTVIISFKSSQTPVQSQTNSAASENVEDDTAPLPLPPPPPGFGTPTTPLLSSNVLKKVASFTVEKSSAGNNSSNPPNLCPTSDETTLLATPCSSSLTVATLPPEIAVGAAAGGVAGGAGSRRGSSYVPEKLSFAAYEKFEGQMLIKWLISTMQSNPKSSSGDANQELFNTLALQFCNNLKYVGVLKQISNEHLDCGFSPYEMYQWTHTEQPTTSLPLTPGKLDKVAAWPFSSTPSGIRALESASLASLGAGGVAGSLATIATASTASSDNQKTLQQILKKRLLNCTTLAEVHAVVNELLSSVDEPPRRPSKRCVNLTELLNASEATVYEYNKTGAEGCVKSFTDAETQTESEDCEGTCKCGQSSTKVSDNESAKEDGEKPHAVAPPPPPPPPPLHAFVAPPPPPPPPPPPPPPLANYGAPPPPPPPPPGSGSAPPPPPPAPIEGGGGIPPPPPPMSASPSKTTISPAPLPDPAEGNWFHRTNTMRKSAVNPPKPMRPLYWTRIVTSAPPAPRPPSVANSTDSTENSGSSPDEPPAANGADAPPTAPPATKEIWTEIEETPLDNIDEFTELFSRQAIAPVSKPKELKVKRAKSIKVLDPERSRNVGIIWRSLHVPSSEIEHAIYHIDTSVVSLEALQHMSNIQATEDELQRIKEAAGGDIPLDHPEQFLLDISLISMASERISCIVFQAEFEESVTLLFRKLETVSQLSQQLIESEDLKLVFSIILTLGNYMNGGNRQRGQADGFNLDILGKLKDVKSKESHTTLLHFIVRTYIAQRRKEGVHPLEIRLPIPEPADVERAAQMDFEEVQQQIFDLNKKFLGCKRTTAKVLAASRPEIMEPFKSKMEEFVEGADKSMAKLHQSLDECRDLFLETMRFYHFSPKACTLTLAQCTPDQFFEYWTNFTNDFKDIWKKEITSLLNELMKKSKQAQIESRRNVSTKVEKSGRISLKERMLMRRSKN |
| 927 | sp|Q8K3W3|CASC3\_MOUSE | MADRRRQRASQDTEDEESGASGSDSGSPARGGGSCSGSVGGGGSGSLPSQRGGRGGGLHLRRVESGGAKSAEESECESEDGMEGDAVLSDYESAEDSEGEEDYSEEENSKVELKSEANDAADSSAKEKGEEKPESKGTVTGERQSGDGQESTEPVENKVGKKGPKHLDDDEDRKNPAYIPRKGLFFEHDLRGQTQEEEVRPKGRQRKLWKDEGRWEHDKFREDEQAPKSRQELIALYGYDIRSAHNPDDIKPRRIRKPRFGSSPQRDPNWIGDRSSKSHRHQGPGGNLPPRTFINRNTAGTGRMSASRNYSRSGGFKDGRTSFRPVEVAGQHGGRSAETLKHEASYRSRRLEQTPVRDPSPEPDAPLLGSPEKEEVASETPAAVPDITPPAPDRPIEKKSYSRARRTRTKVGDAVKAAEEVPPPSEGLASTATVPETTPAAKTGNWEAPVDSTTGGLEQDVAQLNIAEQSWSPSQPSFLQPRELRGVPNHIHMGAGPPPQFNRMEEMGVQSGRAKRYSSQRQRPVPEPPAPPVHISIMEGHYYDPLQFQGPIYTHGDSPAPLPPQGMIVQPEMHLPHPGLHPHQSPGPLPNPGLYPPPVSMSPGQPPPQQLLAPTYFSAPGVMNFGNPNYPYAPGALPPPPPPHLYPNTQAPPQVYGGVTYYNPAQQQVQPKPSPPRRTPQPVSIKPPPPEVVSRGSS |
| 928 | sp|J7MDG6|CAHS2\_RAMVA | MSRDQGSTEYDANQRQEQHQEQHNTSYTHTDVRTNIPNIPAPFISTGVSGLGQQLVGEGFTASAARISGQSSETHVQMTPEMEAEARKDRERYERELQAINERHQRDIEGKTEAYRKQAEQEAERLRKELEKQHQRDIEFRKSLVQGTIENQKRQVELEAQLAKRELDREARLATQALDQSKMATDVQVNFDSAVGHTVSGATTVSQSEKVTQSKH |
| 929 | sp|B0S1R5|CH10\_FINM2 | MNLKPIGDRLVLKKQEKEEEKTFSGIVLPSSAKEAPVYAEVLAIGSEVEEDEKMKGNIKVGDKVIYSKYAGTEIKLEDTDYILVKYEDILAVVE |
| 930 | sp|P28599|CH10\_BACSU | MLKPLGDRVVIELVESEEKTASGIVLPDSAKEKPQEGKIVAAGSGRVLESGERVALEVKEGDRIIFSKYAGTEVKYEGTEYLILRESDILAVIG |
| 931 | sp|G5CTG3|AQP6\_MILTA | MAFMDKSEVRQRLQKVLQQCAKAPTWSPKEEVRQSIFWKSIRAELIGSLVLMVFSCSRDSIYGPVSYGCTYAILSYCFKSISAHFNPVITIAALLLRSITPFRCISLVLAQTLGTLSGASVCYYGLSNETETGSAPISPVLNVSPAKGFGYEFFGTFVIILTMSSYLDCNDYVSESGDSNLLPLIFGLSVGLSSGMARQATGGFLNPMRAFSLALFELNHWSNHYIYWIGPIFGCLLAVFTFDYTRPIIPNRDSNNRINFPTFNKNNKYEVEMQPETEITLATLA |
| 932 | sp|Q5BCC5|CAN\_EMENI | MPDPSDRKAVTRYLEQTHDKIFESNRAWVASKKGADPEFFNKLAAGQSPEYLYIGCSDSRVPANEIMGLDAGEVFVHRNIANVVPTIDLSSMSVINYAVGHLKVKHIVVCGHYNCGGVQAALTPTDLGILNPWLRNIRDVYRLHEKELDAIEDDGERFNRLVELNVIESCRSVIKTAVVQQSYEENGFPIVHGWVFNLKDGLLKDLNIDFPGILADIQKIYNLTKGSS |
| 933 | sp|Q39727|CH60\_EUGGR | MNRAGVLARRGYSSKGKDILFGVDARVKMLAGVNRLSQAVSVTLGPKGRNVVIEQPFGAPKITKDGVTVAKAIEFKDSFENLGAQLVRQVANTTNEIAGDGTTTSTVLANTIFSEGYKAVTQGTSPVDMKRGIDRAVEVVLQSLTEQSKTIVSKEEVTQVATISANGDVEIGQLIGHAMEKVGKAGVITVSDGKTLDTELEVVEGMSLDRGYISPYFVTNAKTQKVEIEDAFILLCQKKVSTIQQILPVLEHIAKANRPLVIIADDVDSEALATLIINKINGKLKVCAVKAPGFGDNKTNMLHDVAIFTGGEVYNEELGMNLEQHFDHRILGFAKKVSVGKDQTIILNGAGDPKAVEERKELIQGMLGKTDSSYEKEKLNERLAKLSGGVAVIKVGGASDVEVGEKKDRVTDALNATRAAVSEGIVPGGGAALLYASSALAELAADPTLTEDQKTGVRIVMSAIKLPAITIVKNAGGEGAVVIHQLLAEKKMQQGYDAQQGKYVNMFEAGIIDPAKVVKTALVDAASVAGLMITTEAAITDIPAPAPAAGGGMDGMGGMGGMGGMGGMY |
| 934 | sp|P54212|CAH\_DUNSA | MGSRRITLLGALFAVLAVAIEGRTLLTHNLKAEAAETVDAVSSVVAGSAGRQLLVSEPHDYNYEKVGFDWTGGVCVNTGTSKQSPINIETDSLAEESERLGTADDTSRLALKGLLSSSYQLTSEVAINLEQDMQFSFNAPDEDLPQLTIGGVVHTFKPVQIHFHHFASEHAIDGQLYPLEAHMVMASQNDGSDQLAVIGIMYKYGEEDPFLKRLQETAQSNGEAGDKNVELNSFSINVARDLLPESDLTYYGYDGSLTTPGCDERVKWHVFKEARTVSVAQLKVFSEVTLAAHPEATVTNNRVIQPLNGRKVYEYKGEPNDKYNYVQHGFDWRDNGLDSCAGDVQSPIDIVTSTLQAGSSRSDVSSVNLMTLNTDAFTLTGNTVNIGQGMQINFGDPPAGDLPVIRIGTRDVTFRPLQVHWHFFLSEHTVDGVHYPLEAHIVMKDNDNLGDSAGQLAVIGIMYKYGDADPFITDMQKRVSDKIASGAITYGQSGVSLNNPDDPFNVNIKNNFLPSELGYAGYDGSLTTPPCSEIVKWHVFLEPRTVSVEQMEVFADVTLNSNPGATVTTNRMIQPLEGRTVYGYNGAAA |
| 935 | sp|P0CU47|CASH5\_HYPDU | MATKESKYERVEKVNVDADGATLVKNIGEDRGKEDPGMNFQDKRPANLVPGAPAGVIPNRIESLPTDRAGQRLREHLSESERLRVSRSSTSSKSSSFVEPSLKYRGEIGPIGKNGEFVASSNRQNSSSNVSSSDNSERASPASRNSNPGMNNGMTTQRTTVITESSVQGLGAQRTVPIQPHQQREDHEVITHESHARAPETTVVTIPTTRFESAQLESRRDGRTYTEDKELTIPAPVVAPQIHAHQQVNMSGGTSATIHATTDLHLASEAQINDMGPEEYERYRAKVEALARIHEDETSRKAAAYRNAVEADAELIRQTLERQHMRDIEFRKDLVESSVDRQQQEIRLEAEYAMRALEQERVNARAALDQAMASTNIDVNIDSAIGTTHSQGRVTTTSESRTSQARGPATAAVI |
| 936 | sp|Q10S82|CATA3\_ORYSJ | MDPYKHRPSSSFNGPLWSTNSGAPVWNNNNSLTVGSRGPILLEDYHLVEKLANFDRERIPERVVHARGASAKGFFEVTHDITHLTCADFLRAPGVQTPVIVRFSTVIHERGSPETLRDPRGFAIKFYTREGNWDLVGNNFPVFFIRDGMKFPDMVHSLKPNPKSHVQENWRILDFFSHHPESLHMFTFLFDDIGIPADYRHMDGSGVNTYTLVNRAGKSHYVKFHWKPTCGVKSLLDDEAVTVGGTNHSHATQDLYDSIAAGNFPEWKLFIQTIDPDHEDRFDFDPLDVTKTWPEDIVPLQPVGRMVLNRNIDNFFSENEQLAFCPGIIVPGIYYSDDKLLQTRIFSYSDTQRHRLGPNYLLLPPNAPKCAHHNNHYDGFMNFMHRDEEVDYFPSRYDPAKHAPRYPIPSATLTGRREKVVIAKENNFKQPGERYRSWDPARQDRFIKRWIDALSDPRLTHEIRSIWLSYWSQADRSLGQKLASRLSAKPSM |
| 937 | sp|Q94596|CH60\_LEIMA | MLSRTVPRCVKYGSTPKDIRYGMEARNALLAGVENLVKAVGVTLGPKGRNVILEMPYACPKITKDGVTVAKSIEFEDSFENLGANLVRQVAGLTNDNAGDGTTTATVLSGAIFKEGFRSVASGTNPMDLKRGIDLACREVLISLAEQSRPVTSKSEITQVAMISANMDQEIGSLIGDAMQQVGKDGVITTQEGRSLNTELELVEGMSFERGYTSPYFVTNTKAQRCELENALVYVANRKLTSVAHILPALNYAIQQKRPLLVIAEDVEGEAMHTFLYNKIQGRISGCAVKAPGFGDMRINQLQDIAVFTGSQMISEDLGLSLDQNDFSERFLGTCRKVTVSRDECILMEGGGSAIAVEERVQMIKDMISAEDHEYNRERLVERLAKLSGGVAVIKVGGASEVEINEKKDRIIDALNATRAAVSEGILAGGGTGLLMASLRLESISKDRRLPPDIRTGVNIVKKAIGLPARYIANNAGVEGSVVAGKVLARKDPSFGYNAQTGEYVNMFEAGIIDPMKVVKSAVVNACSVAGMMITTEAAVVEKDLLGREKRIEDEGMEDKEKKRSVDKLRKQVNEAGRTDAQDGAADEV |
| 938 | sp|Q63787|P85A\_RAT | MSAEGYQYRALYDYKKEREEDIDLHLGDILTVNKGSLVALGFSDGQEARPEDIGWLNGYNETTGERGDFPGTYVEYIGRKRISPPTPKPRPPRPLPVAPGSSKTEADTEQPVLTLPDLAEQFAPPDVAPPLLIKLLEAIEKKGLECSTLYRTQSSSNPAELRQLLDCDPPSVDLDVFDEHVLADAFKRYLADLPNPVIPVAVYNEMMSLAQEVPSSEDYIQLLKKLIRSPNIPHQYWLTLQYLLKHFFKLSQASSKNLLNARALSEIFSHVLFRFPAASSDNTEHLIKAVELLISAEWSERQPAPALPPKPPKPTSIANNSMNNNMSLQDAEWYWGDISREEVNEKLRDTADGTFLVRDASTKMHGDYTLTLRKGGNNKLIKIFHRDGKYGFSDPLTFNSVVELINHYRNESLAQYNPKLDVKLLYPVSKYQQDQVVKEDNIEAVGKKLHEYNTQFQEKSREYDRLYEEYTRTSQEIQMKRTAIEAFNDTIKIFEEQCHPQERYSKDYIEKFKREGNEKEIQRIMHNHDKLKSRISEIIDSRRRLEEDLKKQAAEYREIDKRMNSIKPDLIQLRKTRDQYLMWLTQKGVRQKKLNEWLGNENTEDQYSLVDDDEDLPHHDEKTWNVGSSNRNKAENLLRGKRDGTFLVRESSKQGCYACSVVVDGEVKHCVINKTATGYGFAEPYNLYSSLKELVLHYQHTSLVQHNDSLNVTLAYPVYAQQRR |
| 939 | sp|P06996|OMPC\_ECOLI | MKVKVLSLLVPALLVAGAANAAEVYNKDGNKLDLYGKVDGLHYFSDNKDVDGDQTYMRLGFKGETQVTDQLTGYGQWEYQIQGNSAENENNSWTRVAFAGLKFQDVGSFDYGRNYGVVYDVTSWTDVLPEFGGDTYGSDNFMQQRGNGFATYRNTDFFGLVDGLNFAVQYQGKNGNPSGEGFTSGVTNNGRDALRQNGDGVGGSITYDYEGFGIGGAISSSKRTDAQNTAAYIGNGDRAETYTGGLKYDANNIYLAAQYTQTYNATRVGSLGWANKAQNFEAVAQYQFDFGLRPSLAYLQSKGKNLGRGYDDEDILKYVDVGATYYFNKNMSTYVDYKINLLDDNQFTRDAGINTDNIVALGLVYQF |
| 940 | sp|Q9SXF8|PIP13\_ORYSJ | MEGKEEDVRLGANRYTERQPIGTAAQGAEEKDYREPPAAPVFEVEELTSWSFYRAGIAEFVATFLFLYISILTVMGVNKSASKCATVGIQGIAWSFGGMIFALVYCTAGISGGHINPAVTFGLFLARKLSLTRAVFYMAMQCLGAICGAGVVKGFQRGLYMGSGGGANAVNPGYTKGDGLGAEIVGTFVLVYTVFSATDAKRNARDSHVPILAPLPIGFAVFLVHLATIPITGTGINPARSLGAAIVYNRAHAWHDHWIFWVGPFIGAALAAIYHVVVIRAIPFKSRD |
| 941 | sp|Q9SJY5|PUMP5\_ARATH | MGLKGFAEGGIASIVAGCSTHPLDLIKVRMQLQGESAPIQTNLRPALAFQTSTTVNAPPLRVGVIGVGSRLIREEGMRALFSGVSATVLRQTLYSTTRMGLYDIIKGEWTDPETKTMPLMKKIGAGAIAGAIGAAVGNPADVAMVRMQADGRLPLTDRRNYKSVLDAITQMIRGEGVTSLWRGSSLTINRAMLVTSSQLASYDSVKETILEKGLLKDGLGTHVSASFAAGFVASVASNPVDVIKTRVMNMKVVAGVAPPYKGAVDCALKTVKAEGIMSLYKGFIPTVSRQAPFTVVLFVTLEQVKKLFKDYDF |
| 942 | sp|Q9ZWG1|PUMP2\_ARATH | MADFKPRIEISFLETFICSAFAACFAELCTIPLDTAKVRLQLQRKIPTGDGENLPKYRGSIGTLATIAREEGISGLWKGVIAGLHRQCIYGGLRIGLYEPVKTLLVGSDFIGDIPLYQKILAALLTGAIAIIVANPTDLVKVRLQSEGKLPAGVPRRYAGAVDAYFTIVKLEGVSALWTGLGPNIARNAIVNAAELASYDQIKETIMKIPFFRDSVLTHLLAGLAAGFFAVCIGSPIDVVKSRMMGDSTYRNTVDCFIKTMKTEGIMAFYKGFLPNFTRLGTWNAIMFLTLEQVKKVFLREVLYD |
| 943 | sp|O66827|RADA\_AQUAE | MGKNKTAYVCQECGYKSVKWLGKCPSCGEWNTLVEEFEPQSFSLVKKEPSLVLPVTDWEKEEHERETTGFESLDNALGGGLVKGQVILIAGEPGIGKSTLLLQISDRVANGKKVLYVSGEESGTQIALRAKRLGINNENLLVYPEVNLEKILQTLEKEKPSLLVLDSVQTIFSERLESSAGSVSQVREVTYRITEFCKEKNVPAFIVGQITKEGSIAGPKVLEHIVDTVLQFEGERFNFYRIVKVIKNRFGSTGEIAVFKMTDKGLEEVPEPSAFFISEKANAPGSVVFPHTEGSKPVLLEVQALVIPALYTTPQRRTQGFDPNRLALILAVLEKEAKIFTRDQDVFVNVAGGMSVKEPAADLAVAMAVVSSKKEKEVPKDFVIFGEVGLSGEIRAVHFGDLRLKEAKRFGFKKALIPKSLEIEIDGMEIYPVSHIQEAIEVLF |
| 944 | sp|P9WHJ9|RADA\_MYCTU | MANARSQYRCSECRHVSAKWVGRCLECGRWGTVDEVAVLSAVGGTRRRSVAPASGAVPISAVDAHRTRPCPTGIDELDRVLGGGIVPGSVTLLAGDPGVGKSTLLLEVAHRWAQSGRRALYVSGEESAGQIRLRADRIGCGTEVEEIYLAAQSDVHTVLDQIETVQPALVIVDSVQTMSTSEADGVTGGVTQVRAVTAALTAAAKANEVALILVGHVTKDGAIAGPRSLEHLVDVVLHFEGDRNGALRMVRGVKNRFGAADEVGCFLLHDNGIDGIVDPSNLFLDQRPTPVAGTAITVTLDGKRPLVGEVQALLATPCGGSPRRAVSGIHQARAAMIAAVLEKHARLAIAVNDIYLSTVGGMRLTEPSADLAVAIALASAYANLPLPTTAVMIGEVGLAGDIRRVNGMARRLSEAARQGFTIALVPPSDDPVPPGMHALRASTIVAALQYMVDIADHRGTTLATPPSHSGTGHVPLGRGT |
| 945 | sp|P0A2F0|RPOE\_SALTY | MSEQLTDQVLVERVQKGDQKAFNLLVVRYQHKVASLVSRYVPSGDVPDVVQESFIKAYRALDSFRGDSAFYTWLYRIAVNTAKNYLVAQGRRPPSSDVDAIEAENFESGGALKEISNPENLMLSEELRQIVFRTIESLPEDLRMAITLRELDGLSYEEIAAIMDCPVGTVRSRIFRAREAIDNKVQPLIRR |
| 946 | sp|Q7UCH6|SAFA\_SHIFL | MHATTVKNKITQRDNYKEIMSVIVVVLLLTLTLIAIFSAIDQLSISEMGRIARDLTHFIINSLQDWK |
| 947 | sp|Q75KE5|ZFP36\_ORYSJ | MTAALQALLDPTALSLGLPTPAINKEEYLAICLAALACTRAGKALVGVGGQQQVQACNKWLCPAPAAPEELRFRCTVCGKAFASYQALGGHKSSHRKPPSPGDHYGAAAAAQQLASAGDSKEDSASSAAGSTGPHRCTICRRSFATGQALGGHKRCHYWDGTSVSVSVSASASAASSAVRNFDLNLMPLPESTAAAGIKRWAEEEEVQSPLPVKKLRMSN |
| 948 | sp|P42378|RPOH\_PSEAE | MTTSLQPVHALVPGANLEAYVHSVNSIPLLSPEQERELAERLFYQQDLEAARQMVLAHLRFVVHIAKSYSGYGLAQADLIQEGNVGLMKAVKRFNPEMGVRLVSFAVHWIKAEIHEFILRNWRIVKVATTKAQRKLFFNLRSQKKRLAWLNNEEVHRVAESLGVEPREVREMESRLTGQDMAFDPAADADDESAYQSPAHYLEDHRYDPARQLEDADWSDSSSANLHEALEGLDERSRDILQQRWLSEEKATLHDLAEKYNVSAERIRQLEKNAMSKLKGRILA |
| 949 | sp|B8GWS7|SIDA\_CAUVN | MIRVARESFALVSVIGFVWMMCTVANLVA |
| 950 | sp|Q83IV7|SRKA\_SHIFL | MNNSAFTFQTLHPDTIMDALFKQGIRVDSGLTPLNSYENRVYQFQDEERRRFVVKFYRPERWTADQILEEHQFALQLVNDEVPVAAPVAFNGQTLLNHQGFYFAVFPSVGGRQFEADNIDQMEAVGRYLGRMHQTGRKQLFIHRPTIGLNEYLIEPRKLFEDATLIPSGLKAAFLKATDELIAAVTAHWREDFTVLRLHGDCHAGNILWRDGPMFVDLDDARNGPAIQDLWMLLNGDKAQQRMQLETIIEAYEEFSEFDTAEIGLIEPLRAMRLVYYLAWLMRHWADPAFPKNFPWLTGEDYWLRQTATFIEQAKVLQEPPLQLTPMY |
| 951 | sp|Q6K8D9|SKIPA\_ORYSJ | MASLKELLPTPKAAASTFYDHSSDPWFKERYGGESAQSDAAAAAAKPSGPAKPVPPYGKRGGFVPRRPEDFGDGGAFPEIHVAQYPLGMGRRDEKGGSKILALTVDAKGSVAFDAVVKQGENASKIVYSKHSDLVPKIATADSEATADDEEYQKQIEETTERTKAALEKVVNVRLSAAQPKNVPTHDSESKFIKYKPSQQSAAFNSGAKERIIRMSEMAQDPLEPPKFKHKRVPRASGSPPVPVMHSPPRPVTVKDQQDWKIPPCISNWKNPKGYTIPLDKRLAADGRGLQEVQINDNFAKLSEALYVAEQKAREAVQMRSKVQRELQLKEKERKEQELRALAQKARMERTGAPPAPTGVPAGGGRGAVDDREEDMDLEQPREQRRESREEREARIERDRIREERRRERERERRLEARDAAMGKKSKLTRDRDRDVSEKIALGMASTGGAKGGEVMYDQRLFNQDKGMDSGFATDDQYNIYSKGLFTAQPTLSTLYRPKKDGDSDVYGDADEQLEKVMKTDRFKPDKGFSGASERSGKRDRPVEFDKQEENDPFGLDQFLTEVKKGKKAVEKIGSGGAMRASGGSSMRDDYEGGGSGRSRINFERGR |
| 952 | sp|P72191|TAPA\_PSEFR | FNDEKGFGFITPESGPDLFVHFRAIQGNGFKSLKEGQKVTFIAVQGQKGMQADKVQAEA |
| 953 | sp|P20178|THS1\_ARAHY | MVSVSGIRKVQRAEGPATVLAIGTANPPNCVDQSTYADYYFRVTNGEHMTDLKKKFQRICERTQIKNRHMYLTEEILKENPNMCAYKAPSLDAREDMMIREVPRVGKEAATKAIKEWGQPMSKITHLIFCTTSGVALPGVDYELIVLLGLDPSVKRYMMYHQGCFAGGTVLRLAKDLAENNKDARVLIVCSENTAVTFRGPNETDMDSLVGQALFADGAAAIIIGSDPVPEVENPIFEIVSTDQQLVPNSHGAIGGLLREVGLTFYLNKSVPDIISQNINGALSKAFDPLGISDYNSIFWIAHLGGRAILDQVEQKVNLKPEKMKATRDVLSNYGNMSSACVFFIMDLMRKKSLETGLKTTGEGLDWGVLFGFGPGLTIETVVLRSMAI |
| 954 | sp|Q8VY21|TLP3\_ARATH | MSFKSLIQDMRGELGSISRKGFDVRFGYGRSRSQRVVQDTSVPVDAFKQSCWASMPPELLRDVLMRIEQSEDTWPSRKNVVSCAGVCRNWREIVKEIVRVPELSSKLTFPISLKQPGPRGSLVQCYIMRNRSNQTYYLYLGLNQAASNDDGKFLLAAKRFRRPTCTDYIISLNCDDVSRGSNTYIGKLRSNFLGTKFTVYDAQPTNPGTQVTRTRSSRLLSLKQVSPRIPSGNYPVAHISYELNVLGSRGPRRMQCVMDAIPASAVEPGGTAPTQTELVHSNLDSFPSFSFFRSKSIRAESLPSGPSSAAQKEGLLVLKNKAPRWHEQLQCWCLNFNGRVTVASVKNFQLVAAPENGPAGPEHENVILQFGKVGKDVFTMDYQYPISAFQAFTICLSSFDTKIACE |
| 955 | sp|F2Y4A3|SPHK2\_ARATH | MENDQFMCPTDIITGIVFIDGELAMLTLTADGELRWTEYGLRQYLSMKKDVLGFIVEGKQIRVKAVVEKEAGGICCGQFGGDFVRKDFVFEPLIDQNGWCYKLRQYLDSLGRPKRLLVFVNPFGGKKSAREIFVKEVKPLFEDADVQLEIQETKYQLHAKEFVKSMDVSKYDGIVCVSGDGILVEVVNGLLERADWRNALKLPIGMVPAGTGNGMIKSLLDTVGLRCCANSATISIIRGHKRSVDVATIAQGNTKFFSVLMLAWGLIADIDIESEKFRWMGSARIDFYALQRIICLRRYNGRILFLPAPGFEGYGQPASCSLYQEPHVSDKEVGYQGPETKFEDLEWREMKGPFVTIWLHNVPWGSENTLTAPAAKFSDGYLDLIVLKNCPKLVLLSLMRQTSSGTHVESPYIVYIKVKAFVLEPGALVDEPDKEGIIDSDGEVLARGKRTYKCDQKALMSYDKLQVTVDQGLATLFSPEY |
| 956 | sp|P27366|SUBI\_SYNE7 | MKTAWTRRSFLQSAALATATVITIAACGGNNQSSSGGSGQPVEVTLVSYAVTQAAYEQIIPKFAAQWKEKTGQEVRFNQSYGGSGSQTRAVIDGLEADVVALALESDINQIEKAGLIQPGWQQRVPNNGIITNSVVALVTQEGNPKGIKDWTDLTKPGVRIVTANPKTSGGARWNFLGAWGSVTQTGGTEEQALQFTTDIYKNVPILAKDARESTDVFTKGQADVLLNYENELILAQQKGEKVDYAIPPVNINIQGPVAVVDTYTDKHGTRKVSEAFVQFLFTPEAQAEFAKVGFRPALPEGVDPQLLAPFPKIQTWFTVADLGGWAKVQPEFFGDGGWFDKVQQAVAGR |
| 957 | sp|Q5BFN9|TCTP\_EMENI | MIIYKDIISGDEVLSDTYNIKTVDGVLYECDCRKYLKKTNEDFELEGANPSAEGGDDEGGAEGGEVMVHDIEDQFRLVWLKAEDGAKPPKDAFKGHLKTYMKKVLKALQDKGAPDETINEFKKGAPAAVNKILKNYDNYDVLMGESMDGDAMHILIDFREDGVTPYATLWKHGLEEMKV |
| 958 | sp|P72192|TAPB\_PSEFR | MSQRQSGTVKWFNDEKGFGFITPESGPDLFVHFRAIQGNGFKSLKEGQKVTFIAVQGQKGMQA |
| 959 | sp|P81666|TPIS\_PINPS | TFDVCYEQLFFVGGNWK |
| 960 | sp|O64896|TPPA\_ARATH | MDMKSGHSSPVMTDSPPISNSRLTIRQNRLPYSSAAATAISQNNNLLLTVPRKKTGILDDVKSNGWLDAMKSSSPPPTILNKDNLSNDATDMTYREWMQLKYPSALTSFEKIMSFAKGKRIALFLDYDGTLSPIVEEPDCAYMSSAMRSAVQNVAKYFPTAIISGRSRDKVYEFVNLSELYYAGSHGMDIMSPAGESLNHEHSRTVSVYEQGKDVNLFQPASEFLPMIDKVLCSLIESTKDIKGVKVEDNKFCISVHYRNVEEKNWTLVAQCVDDVIRTYPKLRLTHGRKVLEIRPVIDWDKGKAVTFLLESLGLNNCEDVLPIYVGDDRTDEDAFKVLRDGPNHGYGILVSAVPKDSNAFYSLRDPSEVMEFLKSLVTWKRSMG |
| 961 | sp|P39177|USPG\_ECOLI | MYKTIIMPVDVFEMELSDKAVRHAEFLAQDDGVIHLLHVLPGSASLSLHRFAADVRRFEEHLQHEAQERLQTMVSHFTIDPSRIKQHVRFGSVRDEVNELAEELGADVVVIGSRNPSISTHLLGSNASSVIRHANLPVLVVR |
| 962 | sp|O05400|YRHH\_BACSU | MLENRLYKRSDFWKLFSRKYKLTKTIEHMMIDSIDIQENDRILEIGIGNGTVFKSITKKLKKGSLKSIDPSKRKVRQISRANRKNMGNGEVFHGYPEDIPFDDRTFNKVFSLHTVQSCTDIRLALREIYRVLQIDGRFYISIDTNTGEKEKTYIQLLKDQHFRDLSVIRRASCLCIVAVK |
| 963 | sp|D0VWM8|TADBP\_CAEEL | MADETPKVKTEPAAEVKSPLDEVKEIRKEAELTQTGSDEKKTTDPEFITVQDPNGDEPIELPTVDGVVLMTTLQASFPGATGLKYKNPKTGANRAVQVDPSGLKLIAPADGWENKTFFVIVAPQSERVRALSSADATSAKRRKVGSSDDSDSDDGRDGRSGRKRAVERDSQPVDLIVLGVDFKTTDECFQKYFEDIGTVVFCEIKRKSDGNSKGFGFVRMSSVGEQNKVLAIPQHMIDGRRCDVKVPDGRSLQDKQGRPSISRIFVGRLTDKVDEHQLRKVFGDEAKSYIETAVVTDVFIPKPFRGFAFVTLSSAEAAERIVSKGSLTVNGLSVGLSIAQPREENNQSVGPDYGLPAGYRNRRERDRPDRRPIQNEAPLPMPFVRPPQDYSYRQQNSPLERRYWAPGDSRGPGW |
| 964 | sp|Q53546|THS\_DESSY | MAQLAGQPVVILPEGTQRYVGRDAQRLNILAARIVAETIRTTLGPKGMDKMLVDSLGDIVITNDGATILDEMDIQHPAAKMMVEVAKTQDKEAGDGTTTAVVIAGELLKKAEELLDQNIHPSIIIKGYALAAEKAQEILEGIAKEVSPDDVETLKKAAVTSITGKAAEEEREYLAEIAVEAVRQVAEKVGDKYKVDLDNIKFEKKEGASVHETQLIRGVVIDKEVVHPGMPKRVENAKIALINDALEVKETETDAEIRITSPEQLQAFLEQEERMLREMVDKIKEVGANVVFVQKGIDDLAQHYLAKYGIMAVRRVKKSDMEKLAKATGAKIVTNVRDLTPEDLGEAELVEQRKVAGENMIFVEGCKNPKAVTILIRGGTEHVVDEVERALEDAVKVVKDIVEDGKILPAGGAPEIELAIKLDEYAKEVGGKEQLAIEAFAEALKVIPRTLAENAGLDPVETLVKVIAAHKEKGPTIGVDVFEGEPADMMEKGVIAPLRVPKQAIKSASEAAIMILRIDDVIAASKLEKDKEDKGGSNDFGSDLD |
| 965 | sp|Q9MAH1|TTL1\_ARATH | MPKSVKPISESDKLSDHLRDSSLTSEINKPDFRELDLGSPVSPLRSQPRGLTTTTTTTTTSSSSSSSSGSVTGRIKHAPVIGRSNSVRSQSNSSSGNNNLRPRSDSATTSSSSHSQPLLSSSSSSATSPAPTSPANVLPTGNICPSGKIQITGMTQSRSRSDVLGSGTGTYGHGSIMRGGGISPAKPTNTGGGSNSPVNVGSSSRSSSTVATGETPIWKKAILGSDSEEVKRVGNEMYRKGLFNEALKLYDRAIALSPTNAAYRSNRAAALIGLSRIGEAVKECEDAVRSDPNYGRAHHRLALLLIRLGQVNSARKHLCFLGRPSDPMELQKLEAVEKHLIKCVDARRVTDWKTVLIEADAAIVSGADFSPQLFMCKVEAFLKLHRLDDAQSKLLEVPKVEPFPVSCSQTRFSGMACEAYIYFVKAQIEMALGRFENAVMAAEKASQIDPRCNEVAMLHNTVTLVARARARGNDLYKSERYTEASSAYAEGLRLDPCNAILYCNRAACWFKLGMWERSIEDCNQALRYQPSYTKPLLRRAASNSKMERWGAAVSDYEALIRELPHDKEVAESLFHAQVALKKSRGEEVLNMEFGGEVEEIYSLEQFKSAMNLPGVSVIHFSTASDHQCKQISPFVDSLCTRYPSIHFLKVDIDKCPSIGNAENVRVVPTVKIYKNGSRVKEIVCPSKEVLEYSVRHYSG |
| 966 | sp|Q9SIP1|UP3\_ARATH | MICARIRPLISSPLAFTISTTKHSRINLRLLPRRSFSVMSSSTPQSQIIEHIVLFKTKDDADSTKITSMINNLNALAYLDQVLHISTSPLHRISSATAFTHVLHSRYESKEDLASYAAHPDHVRVVKESVLPICDDIMAVDWIADRIPGTVAPLPGSVAKLTLLKLKEDVADEAKSEITGVIKGLSEKFPGIDQITVGENFSPARAKGFSIASIAYFKDLSEMEAVDAQKELVNSQKDKVRDYVDSTIVVEFVVPSSSQSSSL |
| 967 | sp|P80022|RNLE\_SOLLC | MASNSAFSLFLILLIITQCLSVLNAAKDFDFFYFVQQWPGSYCDTKQSCCYPTTGKPAADFGIHGLWPNNNDGTYPSNCDPNSPYDQSQISDLISSMQQNWPTLACPSGSGSTFWSHEWEKHGTCAESVLTNQHAYFKKALDLKNQIDLLSILQGADIHPDGESYDLVNIRNAIKSAIGYTPWIQCNVDQSGNSQLYQVYICVDGSGSSLIECPIFPGGKCGTSIEFPTF |
| 968 | sp|P66808|SIGH\_MYCBO | MADIDGVTGSAGLQPGPSEETDEELTARFERDAIPLLDQLYGGALRMTRNPADAEDLLQETMVKAYAGFRSFRHGTNLKAWLYRILTNTYINSYRKKQRQPAEYPTEQITDWQLASNAEHSSTGLRSAEVEALEALPDTEIKEALQALPEEFRMAVYYADVEGFPYKEIAEIMDTPIGTVMSRLHRGRRQLRGLLADVARDRGFARGEQAHEGVSS |
| 969 | sp|C4QVD6|SHO1\_KOMPG | MSCSFQLSLVPSPPNLKMSIRNIINDPFATGSLSLAAMSWIITFISSIVADVQGSFPKLTWWGIVFELFVILFLAVLYIVDDIQPHRLSIVGFLAIATVYTTNSANSLVYSNTSAKNCAAAGSILLSMINLIWLFYYGTDIANSVLVARVFGKQGSNPFTTPQPNRTYTPNDINNTNTNYMSSGQLTGLEKGVDSNAYGNHDDSDDELSADDHYPITVRALYNYDANPEDINELSLKQGEVFKVKDTAGKWWQAKKQSGELGICPSNYVETLH |
| 970 | sp|B5VHP4|SHO1\_YEAS6 | MSISSKIRPTPRKPSRMATDHSFKMKNFYADPFAISSISLAIVSWVIAIGGSISSASTNESFPRFTWWGIVYQFLIICSLMLFYCFDLVDHYRIFITTSIAVAFVYNTNSATNLVYADGPKKAAASAGVILLSIINLIWILYYGGDNASPTNRWIDSFSIKGIRPSPLENSLHRARRRGNRNTTPYQNNVYNDAIRDSGYATQFDGYPQQQPSHTNYVSSTALAGFENTQPNTSEAVNLHLNTLQQRINSASNAKETNDNSNNQTNTNIGNTFDTDFSNGNTETTMGDTLGLYSDIGDDNFIYKAKALYPYDADDDDAYEISFEQNEILQVSDIEGRWWKARRANGETGIIPSNYVQLIDGPEEMHR |
| 971 | sp|Q99287|SEY1\_YEAST | MADRPAIQLIDEEKEFHQSALQYFQQCIGNRDVGLDYHVISVFGSQSSGKSTLLNVLFNTNFDTMDAQVKRQQTTKGIWLAHTKQVNTTIEIDNDRPDIFVLDVEGSDGSERGEDQDFERKAALFAIAVSEVLIVNMWEQQIGLYQGNNMALLKTVFEVNLSLFGKNDNDHKVLLLFVIRDHVGVTPLSSLSDSVTRELEKIWTELSKPAGCEGSSLYDYFDLKFVGLAHKLLQEDKFTQDVKKLGDSFVMKGTENYYFKPQYHHRLPLDGWTMYAENCWDQIERNKDLDLPTQQILVARFKTEEISNEALEEFISKYDESIAPLKGNLGSLTSQLVKLKEECLTKYDEQASRYARNVYMEKREALNTKLNSHISGTINEFLESLMEKLWDDLKLEVSSRDKATTSFVESVAAGKSKIEKEFNESMETFKKLGLLISNEEITCKFSDDIEERIKQLRDAELKAKIGRIKKNLVPELKDHVIHLLSHPSKKVWDDIMNDFESTIKDNISAYQVEKDKYDFKIGLSESENAKIYKNIRILAWRTLDTTVHDYLKIDTIVSILRDRFEDVFRYDAEGSPRLWKTEEEIDGAFRVAKEHALEVFEVLSLAVTSDNVEIIPDVPMAEEESGEDNEIYRDNEGVFHSRRFAHILTELQKENVLDQFRRQINITVLDSKRSIITTRTHIPPWIYVLLAVLGWNEFVAVIRNPLFVTLTLILGATFFVIHKFGLWGPVVNVVQSAVGETRTAIKDKLRQFVVEDHEVKESFEMKDFSKNEQKEK |
| 972 | sp|Q9SI64|SPE1\_ARATH | MPALAFVDTPIDTFSSIFTPSSVSTAVVDGSCHWSPSLSSSLYRIDGWGAPYFAANSSGNISVRPHGSNTLPHQDIDLMKVVKKVTDPSGLGLQLPLIVRFPDVLKNRLECLQSAFDYAIQSQGYDSHYQGVYPVKCNQDRFIIEDIVEFGSGFRFGLEAGSKPEILLAMSCLCKGNPEAFLVCNGFKDSEYISLALFGRKLELNTVIVLEQEEELDLVIDLSQKMNVRPVIGLRAKLRTKHSGHFGSTSGEKGKFGLTTVQILRVVRKLSQVGMLDCLQLLHFHIGSQIPSTALLSDGVAEAAQLYCELVRLGAHMKVIDIGGGLGIDYDGSKSGESDLSVAYSLEEYAAAVVASVRFVCDQKSVKHPVICSESGRAIVSHHSVLIFEAVSAGQQHETPTDHQFMLEGYSEEVRGDYENLYGAAMRGDRESCLLYVDQLKQRCVEGFKEGSLGIEQLAGVDGLCEWVIKAIGASDPVLTYHVNLSVFTSIPDFWGIDQLFPIVPIHKLDQRPAARGILSDLTCDSDGKINKFIGGESSLPLHEMDNNGCSGGRYYLGMFLGGAYEEALGGVHNLFGGPSVVRVLQSDGPHGFAVTRAVMGQSSADVLRAMQHEPELMFQTLKHRAEEPRNNNNKACGDKGNDKLVVASCLAKSFNNMPYLSMETSTNALTAAVNNLGVYYCDEAAAGGGGKGKDENWSYFG |
| 973 | sp|O23141|SPE2\_ARATH | MPALACVDTSFVPPAYAFSDTAGDVFIPASSPTSAAVVVDRWSPSLSSSLYRIDGWGAPYFIANSSGNISVRPHGSETLPHQDIDLLKIVKKVTGPKSSGGLGLQLPLIVRFPDVLKNRLECLQSAFDYAIKSQGYDSHYQGVYPVKCNQDRFVVEDIVKFGSSFRFGLEAGSKPEILLAMSCLCKGSPDAFLVCNGFKDAEYISLALLGRKLALNTVIVLEQEEELDLVIELSQKMNVRPVIGLRAKLRTKHSGHFGSTSGEKGKFGLTTTQIVRVVRKLRQSGMLDCLQLLHFHIGSQIPSTSLLSDGVAEAAQLYCELVRLGAHMKVIDIGGGLGIDYDGSKSGESDLSVAYSLEEYAEAVVASVRVVCDRSSVKHPVICSESGRAIVSHHSVLIFEAVSADKPMVHQATPGDIQFLLEGNEEARANYEDLYAAVMRGDHESCLLYVDQLKQRCVEGFKEGVLSIEQLASVDGLCEWVLKAIGASDPVHTYNINLSVFTSIPDLWGIDQLFPIVPIHKLDQRPGARGILSDLTCDSDGKINKFIGGESSLPLHELDKNGSGGRYFLGMFLGGAYEEALGGVHNLFGGPSVVRVSQSDGPHSFAVTRAVPGQSSADVLRAMQHEPELMFQTLKHRAEEMMHTKGGSEGENEEEEEDDEFNNVAASLDRSFHNMPYLATEQASPSNSLSAAISNLGFYYCDEDVYDYISA |
| 974 | sp|Q2G261|SODM2\_STAA8 | MAFKLPNLPYAYDALEPYIDQRTMEFHHDKHHNTYVTKLNATVEGTELEHQSLADMIANLDKVPEAMRMSVRNNGGGHFNHSLFWEILSPNSEEKGGVIDDIKAQWGTLDEFKNEFANKATTLFGSGWTWLVVNDGKLEIVTTPNQDNPLTEGKTPILLFDVWEHAYYLKYQNKRPDYMTAFWNIVNWKKVDELYQAAK |
| 975 | sp|Q57HL7|SRKA\_SALCH | MNDNAFTFQTLHPETIMDALFEQGIRVDSGLTPLNSYENRVYQFQDEDRRRFVVKFYRPERWSVDQIREEHQFALELVKDEVPVAAPLAFNGQTLLAHQGYHYAIFPSVGGRQFEADNIDQMEAVGRYLGRLHQTGRKRPFTFRPDIGLAEYLFEPRQVFEDAALIPSGQKAAFLKATDTLLSAVTECWRTDFATLRLHGDCHAGNILWRDGPLFVDLDDARNGPAIQDLWMLLNGDKAEQRMQLETIIEAYEEISEFDTAEIGLIEPLRAMRLVYYLAWLIRRWGDPAFPKNFPWLTGEDYWQRQTTTFIEQTKILHEPPLQLTPMY |
| 976 | sp|Q86L04|TRAP1\_DICDI | MQRTLSKVILNSGKNNLLKSSNLLNSNLLKATTTNIIGIKTINNNNNVNSIIGFKSLNKRYFTSNTPKVEEEDDEIAPDEAIKAEEKIKETERVIGLSEKLSFQTETQKILHIVAESLYTEKEVFIRELISNASDAIEKVRHTQLTNASMIEDASIPFEIKISTDEDNKTLIIQDSGIGMTKDEMIKNLGKIGYSGSSDFIKKLGENPDKASIIGQFGVGFYSCFMVGHTIKIYTKSATPGSKGYLWESDGTGSYSITEAEGVSRGTKIIIHLKPSSYEYSKKSIVENIIKKYSNFVGFPIALNGTTVNTIKPLWTLNKNAISEEEHKEFYQFLSKSYDTPSYRVHFSTDTPLSIRSIFYIPSQHMEKYGMGKMEPGVSLFSRKVLIQQKANGILPEWMRFVRGVVDSEDIPLNVSREHLQDNGLIQRISSVLVKRILKHLNDEAKSDPEKFNVFMTEFGGFFKEGIITDFKWKDEISKLLRFESSNGSTASKTDAVSLEQYVSRMKPEQKNIYFLSVPNRAVGLSSPYYEPFQLKDIEVIFLYNAVDEFVLTNVGHFGDKKIVSVESKEAEEFLATNQDKKTETLSQDEIDKFLSWVSTVASDKVTQAKSTTRSISSPAIIIDHESANFRRMLKMVEPGKQHETPKQVVEFNMNHPIILKLVQQTESNPTIAKLVIDQVVDNAFVSAGLIEDNREMIPRINQLLDSLLTK |
| 977 | sp|P38228|TCM62\_YEAST | MLRNCLRKLGNHQTKCSVKTLHTPIYRTKNLQVLRDTLSGIKLLEKIITSSSYNKTLIYEPKYKSKPQVVSSHDTMRLHNVMRELLDSLQVDEATNTRLQSNRPRKLGRVGLQLFMDCIQDNLTATSTSLTCSLLEHYFKYPEKEVTNGIKAGLRYIRDFLAKNKIIVKSQNDVDALVEQLTMSSSDSQSIKRVLKAINYELFSDDIVRVINGNKTYDEVDVSKGWKYPAGILDSNEAYLRSLELPTKKLVSIDKDMLVLMYDGTLRDANKILPTITYARKLRKSVLLIVNGDCTGDALTSVTINNNRNKRENNESRIVVLKYSKKANNDLAPQENLDFIKFLRLPCGYDSIYSPEYSPLVPSKMCADKYYGSIESIKATTGEAFLYNSIDAEAIPNKVPKSFLQNTVTLSIGGHNEIEIDRRRNAIDNCLNNVLCHGLAKGFIPGYGISLLKAIPGLNELKANEPNFMTKVGINAVLSAVILPSEVAFKNAYGYNYYEINSLIAGAINEKSFPMAKFSPNSEPVNTVKDGNLEPWSKMDSCLAGVETFIELLTSCNTIITCVYKKPERHKA |
| 978 | sp|O42622|TREB\_MAGO7 | MSEAPQARRVGSVDDHSVYDDAKTYYTSEERHNNSRSGPRQRTYSQNSLLGQMERLGLKEPFRRGSHDESNHNRRFLIQVDPTLESLKSQEDTDGNMQITIEDNGPKVLTLRTAGSNGHNRFDIRGTYMLSNLLQELTLAQEYGRKQVILDEARLNENPVNRLSRLIRDHFWDALTRRIDASSIEVAAKDPKDWTDDPRPRIYVPKGAPEQLEYYKKLAADKPDIRLDVVELPETITPEYVVGINKAPGLLAVDMEETVDPKTGERVMSGRPFVVPGGRFNELYGWDSYMESLGLLVNDKVYLAKSMVLNFCFCIKHYGKILNATRSYYLCRSQPPFLTDMALRVYDKIRHEPDATEFLRTAILAAIKEYHSVWVAEPRLDPVTGLSRYRPEGTGVPPETEADHFLHILEPYYKKHNMTFKEFVEAYNFGRIREPELDKYFLHDRAVRESGHDTSYRLEGVCADLATVDLNTLLFKYETDIARTIRNVFGDKLVIPAEYCVGSLQPGQVETSAIWDRRSKRRKLAIDKYLWNEEAGMYFDYDTAKRQQCNYESCTTFWALWAGVASPKQAAIMVTRALPKFEAYGGLLSGTEESRGQIGLDRPNRQWDYPYGWAPQQMLAWTGLYRYSFTEEAERLAYKWLFMITKAFSDFNGVVVEKYDVTRPVDPHRVDAEYGNQGLGFKGVAKEGFGWVNASYIYGLQIINAHMRRALGTLTPYDTFIKALEDNRNRALSEMV |
| 979 | sp|O32273|TUAB\_BACSU | MPSITKQIMSGAKWTSISTMCITIIQIVQFALLGNMMTLTEFGLVGMITTVTVFAQIVLDMGFGAALIQRDDATERQLSTLYWLNIMTGVLLFVLLYVSSPVIAGFYQREELVFLVRILAIMFLIAPIGQQYQYMLQKQLHFNTLSKIEIFSNVLSFGYLAIAVFMMDAILAYVISQVLLQSSKGILYWAVYRKKWHPAFVFDLRGMKDFFSFGAFQLSSRLVNRLGANIDMILIGRFIGAEALGIYNLAYQIVTIPVLKINPIVTRVAFPIFAKNKYENSVIREGFLNMTKMLALVSFPLLIGLVSVSDAFITAVFGEKWLAAVPILNVLAIVGILRVLMNPNGSVLLAKGRADLAFYWDSGVLLLYGLSLFAAVQTGSLLTVAWVYAIISVVNFLIGRWLLAYVIKLNLSAYFQSIMKPFLITAAMGIIAFGVSLSTEHFSMQAEMRLAISVAAGALCYLFLLVKAYPQTKSKLLRKGRLS |
| 980 | sp|P94560|YSNF\_BACSU | MKSIVGVYETPQETIAAIEGLLTKGYDSDDISVVTSRRDTDYLESRTGTEVNQAIDAHQDESESFFDKLKDYFTMDDTATHSKALSDLDIKTDEIDKYQEDLDDGKLLVAVDTDADVIAPIDNGNALSGGFSSTNELDYTTKEEKTMPLREEQLKVDKEDVQTGEVEIGKEVKTEKRDMDIPVRHDEIYVERRPVDENKTDAAPVNDSEEIRVPIVEEKLEVTKKPVVTDEVVVGKRTVEENEHISETVKKEEPRLNKEGKVDGLDDDPLNNK |
| 981 | sp|B1ISZ1|YTFE\_ECOLC | MAYRDQPLGELALSIPRASALFRKYDMDYCCGGKQTLARAAARKELDVEVIEAELAKLAEQPIEKDWRSAPLAEIIDHIIVRYHDRHREQLPELILQATKVERVHADKPSVPKGLTKYLTMLHEELSSHMMKEEQILFPMIKQGMGSQAMGPISVMESEHDEAGELLEVIKHTTNNVTPPPEACTTWKAMYNGINELIDDLMDHISLENNVLFPRALAGE |
| 982 | sp|B4T3G2|YTFE\_SALNS | MAYRDQPLGELALSIPRASALFRQYDMDYCCGGKQTLARAAARHDVDIDIIEAQLAQLAEQPIEKDWRAVPLADIIDHIVVRYHDRHREQLPELILQATKVERVHADKPNVPRGLTKYLTALHEELSSHMMKEEQILFPMIKQGMGRQATGPISVMESEHDEAGELVDVIKHVTQNVTPPPEACTTWKAMYNGINEMIDDLMEHISLENNVLFPRALAGE |
| 983 | sp|P11539|RPOH\_CITFR | MTKEMQNLALAPVGNLESYIRAANAWPMLSADEERALAEKLHYQGDLEAAKTLILSHLRFVVHVARNYAGYGLRQADLIQEGNIGLMKAVRRFNPEVGVRLVSFAVHWIKAEIHEYVLRNWRIVKVATTKAQRKLFFNLRKTKQRLGWFNQDEVEMVARELGVSSKDVREMESRMAAQDMTFDMSSDDESDSQPMAPVLYLQDKSSNFADGIEEDNWEDQAANKLTHAMEGLDERSQDIIRARWLDEDNKSTLQELADRYGVSAERVRQLEKNAMKKLRAAIEA |
| 984 | sp|Q6H754|SAP5\_ORYSJ | MAEEQRWQEGCHRLCANNCGFFGSPATLDLCSKCYRDRQGRESTAPVVVAAAASACPATHPSSPSSSSCPAFLPSSTAAEAGVVVAAVAKASRCASCRKRVGLTGFACRCGGTFCGAHRYPERHACGFDFKAAGRDAIARANPLIKGDKLKDKI |
| 985 | sp|D8MUB2|SBMC\_ERWBE | MNVEIVEREESKTAGFHLVGPWEVTAPEGFDKLVAWTSKHNVMGPWMGVYHGNPRAVPAEELKIETVIGVPTDFELPEGSEGARLSIIPAGTYAMNLVHVNDGDFTKPWYAFFDEWLPDSGYVMAEGPCFDHYLNDGSQSGEWDIELYIPVSKAE |
| 986 | sp|Q9C509|SGPL\_ARATH | MDSFSYSSMKSMLIQARGSLNSRLSEFEPLVLLLVPLVSLFLAQIIGSVFGVVHEKGLKACLIGFIMGLLKMIPGVQNYIDAEKQKVVDQLQSGSSSKKKNKTEVLPVKGLGVEVLEKMENEKRNDAIWQGKCSGTVYIGGAESEGHFSLINQACSMFAHTNPLHIDVFQSVVRFESEVVAMTAALLGSKETASGGQICGNMTSGGTESIVLAVKSSRDYMKYKKGITRPEMIIPESGHSAYDKAAQYFKIKLWRVPVDKDFRADVKATRRHINRNTIMIVGSAPGFPHGIIDPIEELGQLALSYGICFHVDLCLGGFVLPFARKLGYQIPPFDFSVQGVTSISVDVHKYGLAPKGTSTVLYRNHEIRKHQFVAVTEWSGGLYVSPTIAGSRPGSLVAGAWAAMMSLGEEGYLQNTSKIMEASKRLEEGVREIHELFVIGKPDMTIVAFGSKALDIFEVNDIMSSKGWHLNALQRPNSIHICITLQHVPVVDDFLRDLREAVETVKANPGPITGGLAPIYGAAGKMPDRGMVNELLVSFMDSQY |
| 987 | sp|O31654|SIGI\_BACSU | MKPVLSLLFKLGKKKQTLEKAVESIQKGNKDLQNELIQQYKPFIAKTVSSVCKRYIDEKDDEFSIGLIAFNEAIEKYSPEKGNSLLAFAELIIKRKVIDYIRKEARSAQNINIDLQEGDDQESSQSLIEAELSIDEYRRQIEQEQRREEILYFQKQLKDYGLSFKELLENSPKHTDARQNAIKVAMTLVEHEELAAILYTKKQLPVKQLEQLVSVSRKTIERNRKYIIAMCIIITGDYIYLKDYLKGVLHS |
| 988 | sp|P35007|SAHH\_CATRO | MALLVEKTSSGREYKVKDMSQADFGRLEIELAEVEMPGLMSCRAEFGPSQPFKGAKITGSLHMTIQTAVLIETLTALGAEVRWCSCNIFSTQEHAAAAIARDSAAVFAWKGETLQEYWWCTERALDWGPDGGPDLIVDDGGDATLLIHEGVKAEEEYKKNGALPDPSSTDNAEFQIVLTIIRDGLKSDPTKYTRMKERLVGVSEETTTGVKRLYQMQANGTLLFPAINVNDSVTKSKFDNLYGCRHSLPDGLMRATDVMIAGKVAVVAGYGDVGKGCAAALKQAGARVIVTEIDPICALQATMEGLQVLTLEDVVSEADIFVTTTGNKDIIMVDHMRKMKNNAIVCNIGHFDNEIDMLGLETYPGVKRITIKPQTDRWVFPDTNSGIIVLAEGRLMNLGCATGHPSFVMSCSFTNQVIAQLELWNERKTGKYEKKVYVLPKHLDEKVAALHLGKLGAKLTKLTKDQADYISVPIEGPYKPAHYRY |
| 989 | sp|O06006|YRAA\_BACSU | MSKKIAVLVTDQFEDIEYTSPVKAYEEAGYSVVAIDLEAGKEVTGKHGEKVKIDKAISDVDASDFDALLIPGGFSPDLLRADDRPGEFAKAFVENKKPVFAICHGPQVLIDTDLLKGKDITGYRSIRKDLINAGANYKDAEVVVSHNIVTSRTPDDLEAFNRESLNLLK |
| 990 | sp|B5R9F8|YTFE\_SALG2 | MAYRDQPLGELALSIPRASALFRQYDMDYCCGGKQTLARAAARHDVDIDIIEAQLAQLAEQPIEKDWRAVPLADIIDHIVVRYHDRHREQLPELILQATKVERVHADKPNVPRGLTKYLTALHEELSSHMMKEEQILFPMIKQGMGRQATGPISVMESEHDEAGELVDVIKHVTQNVTPPPEACTTWKAMYNGINEMIDDLMEHISLENNVLFPRALAGE |
| 991 | sp|B4TT41|YTFE\_SALSV | MAYRDQPLGELALSIPRASALFRQYDMDYCCGGKQTLARAAARHDVDIDIIEAQLAQLAEQPIEKDWRAVPLADIIDHIVVRYHDRHREQLPELILQATKVERVHADKPNVPRGLTKYLTALHEELSSHMMKEEQILFPMIKQGMGRQATGPISVMEIEHDEAGELVDVIKHVTQNVTPPPEACTTWKAMYNGINEMIDDLMEHISLENNVLFPRALAGE |
| 992 | sp|A5IPC8|SCDA\_STAA9 | MINKNDIVADIVIDYPKAADIFRSVGIDFCCGGQVSIEAASLEKKNVDLNELLQRLNDVEQTNTPGSLNPKFLNVSSLIQYIQAAYHEPLREEFKNLTPYVTKLSKVHGPNHPYLVELKETYDTFKSGMLEHMQKEDDVDFPKLIKYEQGEVVNDINTVIDDLVSDHIATGQLLVKMSDLTSSYEPPIEACGTWRLVYQRLKALEVLTHEHVHLENHVLFKKVS |
| 993 | sp|F4IRR2|SAD2\_ARATH | MDLHSLALILRTAALSPIPDERKVSEQQLNQLEHTPQHLVRLLQIAVDGNCDMAVRQIASIQFKNLIAKNWSPEDCGPAVRQQQIFESDKELVRDNILVYVTQVPTLLRSQLGESLKTIIYADYPEQWPRLLDWVKYNLQNQQIYGALFVLRILSRKYEFKSDEERTPVSRIVEETFPQLLTIFNGLIQIPNPSLEIAELMKLICKIFWSSIYLELPRQLFDLNVFNAWMVLFLSVSERPVPVEGQPMDPELRKSWGWWKVKKWTVHILNRLYSRFGDPKLQSPENKPFAQMFQKNYAGRILEGHLNFLNTIRVGGYLPDRVINLLLQYLSNSISKNSMYKLLLPRLDVLLFEIVFPLMCFNDNDQKLWEEDPHEYVRKGYNIIEDLYSPRTASMDFVNELVRKRGKENLPKFVKFVVEIFLSYEKATVEEKPYRQKDGAMLAVGALCDKLKQTDPYKSQLELMLVQHIFPDFNSPVGHLRAKAAWVAGQYAHINFSDQNNFRKALHSVVSGLRDPDLPVRVDSVFALRSFVEACKDLNEIRPILPQLLDEFFKLMNEVENEDLVFTLETIVDKFGEEMAPFAFGLCQNLAAAFWRCLNTSEANDDSDDMGALAAVGCLRAISTILESVSSLPQLFVEIEPTILPIMQKMLTTDGQEVFEEVLEIASYMTFYSPSISLDIWSLWPLMVEALVDWGIDFFPNILVPMDNFISRGTAHFLTCKEPDYQQSLYNVLSTLMTDRNIEDSEIESAPKLIEVVFQNCKGQVDQWVEPYLRLTVDRLQRAETSYVKSLLIQVVANMLYYNPGLTLGVLHNTGLASKVFDLWFQMLQQKRKSGLPANFKREHDKKVCCLGLTSLLALPGGQFPDEALQRVFRATLDLLVAYKNQLAEAAKETEVDYEEEMNGLQSSDDDYDDDGSDGEMDDTEEGDEAQSVKLQKLAAQAKAFHYDDDDDDDSDDDFSDEDEFQSPIDEVDAFVFFVDAIRVMQASDAQRFQNLNQSLDFTYQAIANGIAQHAELRRVEIEKEKQKKLAAASTPVTAL |
| 994 | sp|Q6AVN2|SIRP1\_ORYSJ | MAEAAITRYWCHECEQAIEEAMVDEIKCPSCGGGFVEEMTDEEIERLTNRQPEPGFSQWNPIEHPGETMDSDDEDNDLGREFEGFIRRHRRASTLRRVLDSIHDDLADDQERDSSILINAFNQALALQGSVLDPDEGQGDQGGSTNDDGLLEEYVLGAGLSLLLQHLAESDPSRNGTPPAKKEAVEALPTVKIEEVVSCSVCLDDLEVGSQAKQMPCEHKFHSSCILPWLELHSSCPVCRFELPSEETKDLNEPSNIGRVEDSHEEVRADGPGNVSESSNRPWAIVPWLNELFSTREAQNAGGVSTDQQSPHTSGTNPNAGHS |
| 995 | sp|Q4P9Q7|SHO1\_USTMA | MPSKRGGSGGLDIGLIFAHKILTVLFILSTVGWIVAFIGQCAAEADGVGRQGVLWFAIFLQLFLIIGKYLGVMSDSLGTSRLQLTAFTAVALVFSVFGINSGIYSSNSADEAVAAGWFLITIANVIWLLFLTTEEDSVLYPIVNIANAGITPPAARTSSRYNGAGGAGSGGQSMRMAGSGGVGTGLGGGYGAGNGSAYGGFQGGSGYQPAYGNSPSAADITTANGTGLGAPKISSASIRSRGANDAGATQDAPSVASHGAPASPAQVGSKSTDLPDYGYKARALYAYQANADDPTEISFSKGEVLDIVDNSGKWWQARRSNGETGIVPSNYMQLL |
| 996 | sp|B6QEE0|SHO1\_TALMQ | MARFSTSNILGDPFALATISISILAWLISFIGSIIANVQTDFPNYVWWAVAYMICVITGIIIVTGSDTSLTYGNAITGYLSAGLVFTTLAVNSLVYQPQSSKQAAAAGFILLSMVIIIWIFYFGSTPQASHRRTIDSFALNKEGKSYQNSRPQSNGFGTRPGTTVSQPPQMYTSAQLNGFETSSPMSGYPGGPPGSDKRNTTATNFPTGGNVDSSNEVSQPTEYPYKAKAIYSYDANPDDANEISFAKGEELEVSDVSGRWWQARRANGETGIAPSNYLILL |
| 997 | sp|Q9SB47|SIC\_ARATH | MEDSEKRKQMLKAMRMEAAAQNDDDATTGTETSMSTGHLSNPLAETSNHQQDSFETQRFDYYTDPMAAYSSFKKNKTPKQQYISSPSHQGSSPVPPQFPPSVPPGSLCSEYQAQTNHGGFHAAHYEPRGMAHLSPSHRGPPAGWNNNFRPPPVNHSGPPQWVPRPFPFSQEMPNMGNNRFGGRGSYNNTPPQFSNYGRQNANWGGNTYPNSGRGRSRGRGMNTSFGRDGGRRPMEPGAERFYSNSMAEDPWKHLKPVLWKNCSDASSSSSTGQAWLPKSIAPKKSVTSEATHKTSSNQQSLAEYLAASLDGATCDESSN |
| 998 | sp|A8IHV3|SLT3\_CHLRE | MAAIGWPGIVAIISVAISFIIMAADWVGPDITFTILLSWLTAFDGKIITVAKAAAGYGNTGLLTVIFLYWVAEGVTQTGGLELVMNYVLGRSRSVHWALVRSMFPVMVLSAFLNNTPCVTFMIPILMSWARRCGVPPKKLLIPLSYAAVLGGTCTSIGTSTNLVIVGMQDTRYNKQNKEDEAKFGMFDIAPYGVPYALMGFVFIILTQRFLLPGNSSRYAKDLLIAVRVLPSSPVVKKKLKDSGLRTQTGFSLAGLWRGGAMTRQVDPDTVLEANDILYCAGELDVVEFVGEEFGLGLVTAETERALTDGQAVGDSEATAFHDTGASPYKKLVQVTMTKTADLVGRTVREVSWQGRFGLIPVAIQRGNGREDGRLNDVVLAAGDVLILDTTPHFDEARDDFKINFEKLRFVKDGAAKEFVIGVKVKKNSEVVNKTVTAAGLRGVPGLFVLSVDRADGSSVDASDYLYKIQPGDTLWLAADVGAVGFLSKFPGLELVQQEQVDKTGTSILYRHLVQAAVSHKGPLVGKTVRDVRFRTLYNAAIVAVHREGVRVPLKVQDIVLQGGDVLLISCHTKWAEEHRMDKAFVLVQAVPDSSPPKRGRMAIGVLLVVGMVLTQIVGGLKEKEYIHLWPAAVLTAALMLLTGCMNADQARKAIMWDVYLTIAAAFGVSAALENTGVAGKVANAIISIGKSIGGDGPALIAIYVATAVMSELLTNNAAGAIMYPIAAIAGDQLKIPAVDISVAIMLGASAGFINPFSYQTNLMVYAAGNYSVREFATIGAPFQIWLMVVASFILCYMKQWKQVWIATWSITAFIVFVPALLTLLPHTVQNRMEAFFDRIAEAINPRAALQRRRSARAQSFGGKAMSVGSTESRTDGSSTPDVALTFIEMPKMGVR |
| 999 | sp|Q2EES6|YOHO\_ECOLI | MRIAKIGVIALFLFMALGGIGGVMLAGYTFILRAG |
| 1000 | sp|C5BF83|YTFE\_EDWI9 | MTYRDRPLGELAISIPRATRLFRQYELDFCCGGKLTLQRAAARHSLDLVMLESQLAELDSTPDQHRDWRQAPLDELCAFIVTRYHQRHRDQLPELVLMAQKVEQVHTGKTGCPRGLAKQLDSLRQELDSHMMKEERILFPLIEQGEGARCHGPISVMEHEHRDAGELLDVIRFLTDNMTPPTGACTTWRALYAGISELINDLMEHVSLENNLLFPRALGDV |
| 1001 | sp|Q8FAH0|YTFE\_ECOL6 | MAYRDQPLGELALSIPRASALFRKYDMDYCCGGKQTLARAAARKELDVDVIEAELAKLAEQPIEKDWRSAPLAEIIDHIIVRYHDRHREQLPELILQATKVERVHADKPSVPKGLTKYLTMLHEELSSHMMKEEQILFPMIKQGMGSQAMGPISVMESEHDEAGELLEVIKHTTNNVTPPPEACTTWKAMYNGINELIDDLMEHISLENNVLFPRALAGE |
| 1002 | sp|A2Z2J6|SAP1\_ORYSI | MAQRDKKDQEPTELRAPEITLCANSCGFPGNPATQNLCQNCFLAATASTSSPSSLSSPVLDKQPPRPAAPLVEPQAPLPPPVEEMASALATAPAPVAKTSAVNRCSRCRKRVGLTGFRCRCGHLFCGEHRYSDRHGCSYDYKSAARDAIARDNPVVRAAKIVRF |
| 1003 | sp|P0CU42|SAHS4\_HYPDU | MARFLVALALFGVVAMTAATGDAPKEWSGKPWLGKFVAEVTDKSENWEAFVDALGLPEQFGRAPVKTIQKIYKQGDHYHHIFALPDKNFEKDIEFTLGQEVEIKQGEHIAKTKYSEDGEKLVADVSIPTKGKTIRSEYEVQGDQLIKTYKTGDIVAKKWFKKVANPTEAPAQAA |
| 1004 | sp|Q6H7D2|SIT1\_ORYSJ | MRRPELIMRSLPLILFLSLGSFHLAAAAVDDQFTFDGFAGVNLTLDGTAVVTPGGLLMLTNGTTLLKGHAFYPSPLRFFHEATSGGGSSTVRSFSTAFVFGIVSEYADLSSPGLAFVVAKSRDFSSALQSQYMGLANARNNGNASNHFLAVELDTIVNAEFGDMSDNHVGIDVDGLASAAADDAGYHDDRTGAFVNMSLLSRAAARVWVDFDARTSLVNVTMAPLELPKPTTPLLSAAVNLSAVIEDEAYVGFSSSTGVVASRHYVLAWSFKMDGPAPSLNVSKLPALPVTIARAPSNVLKILLPIASAALVSALAIAVLVIHRRRRRYAELKEEWEVAFGPHRFSYKDLFRATNGFSDERLLGFGGFGRVYKGVLLVSRVEIAVKKVSHESRQGMKEFIAEVVSIGQLRHRNLVQLLGYCRQKGELLLVYDYMPNGSLDKYLYAENSKILSWAQRFRIIKGIASSILYLHEDWEQVVLHRDIKASNVLLDAEMNCRLGDFGLARLYDRGTDPHTTHVVGTIGYLAPELGHTGRPSKASDIFAFGVFMLEVTCGRRPVLQDTNGGQLLLVDMVLEHWRQGTVTDAVDPRLQGDFAVEEASLVLKLCLLCSHPLPSARPGIRQVVQLLDGAMPLPELSQAHLSCNMLALMQNQMGNSCSVASSVAGNISDIPRAR |
| 1005 | sp|P50454|SERPH\_HUMAN | MRSLLLLSAFCLLEAALAAEVKKPAAAAAPGTAEKLSPKAATLAERSAGLAFSLYQAMAKDQAVENILVSPVVVASSLGLVSLGGKATTASQAKAVLSAEQLRDEEVHAGLGELLRSLSNSTARNVTWKLGSRLYGPSSVSFADDFVRSSKQHYNCEHSKINFRDKRSALQSINEWAAQTTDGKLPEVTKDVERTDGALLVNAMFFKPHWDEKFHHKMVDNRGFMVTRSYTVGVMMMHRTGLYNYYDDEKEKLQIVEMPLAHKLSSLIILMPHHVEPLERLEKLLTKEQLKIWMGKMQKKAVAISLPKGVVEVTHDLQKHLAGLGLTEAIDKNKADLSRMSGKKDLYLASVFHATAFELDTDGNPFDQDIYGREELRSPKLFYADHPFIFLVRDTQSGSLLFIGRLVRPKGDKMRDEL |
| 1006 | sp|Q45585|SIGW\_BACSU | MEMMIKKRIKQVKKGDQDAFADIVDIYKDKIYQLCYRMLGNVHEAEDIAQEAFIRAYVNIDSFDINRKFSTWLYRIATNLTIDRIRKKKPDYYLDAEVAGTEGLTMYSQIVADGVLPEDAVVSLELSNTIQQKILKLPDKYRTVIVLKYIDELSLIEIGEILNIPVGTVKTRIHRGREALRKQLRDL |
| 1007 | sp|Q658G7|SIK1\_ORYSJ | MAAARAPWLWWWVVVVVGVAVAEAASGGGGGGDGEGKALMGVKAGFGNAANALVDWDGGADHCAWRGVTCDNASFAVLALNLSNLNLGGEISPAIGELKNLQFVDLKGNKLTGQIPDEIGDCISLKYLDLSGNLLYGDIPFSISKLKQLEELILKNNQLTGPIPSTLSQIPNLKTLDLAQNQLTGDIPRLIYWNEVLQYLGLRGNSLTGTLSPDMCQLTGLWYFDVRGNNLTGTIPESIGNCTSFEILDISYNQISGEIPYNIGFLQVATLSLQGNRLTGKIPDVIGLMQALAVLDLSENELVGPIPSILGNLSYTGKLYLHGNKLTGVIPPELGNMSKLSYLQLNDNELVGTIPAELGKLEELFELNLANNNLQGPIPANISSCTALNKFNVYGNKLNGSIPAGFQKLESLTYLNLSSNNFKGNIPSELGHIINLDTLDLSYNEFSGPVPATIGDLEHLLELNLSKNHLDGPVPAEFGNLRSVQVIDMSNNNLSGSLPEELGQLQNLDSLILNNNNLVGEIPAQLANCFSLNNLNLSYNNLSGHVPMAKNFSKFPMESFLGNPLLHVYCQDSSCGHSHGQRVNISKTAIACIILGFIILLCVLLLAIYKTNQPQPLVKGSDKPVQGPPKLVVLQMDMAIHTYEDIMRLTENLSEKYIIGYGASSTVYKCELKSGKAIAVKRLYSQYNHSLREFETELETIGSIRHRNLVSLHGFSLSPHGNLLFYDYMENGSLWDLLHGPSKKVKLNWDTRLRIAVGAAQGLAYLHHDCNPRIIHRDVKSSNILLDENFEAHLSDFGIAKCVPSAKSHASTYVLGTIGYIDPEYARTSRLNEKSDVYSFGIVLLELLTGKKAVDNESNLHQLILSKADDNTVMEAVDSEVSVTCTDMGLVRKAFQLALLCTKRHPSDRPTMHEVARVLLSLLPASAMTTPKTVDYSRLLASTTTAADMRGHDVTDIGDNSSSDEQWFVRFGEVISKHTM |
| 1008 | sp|C0S7Q7|SHO1\_PARBP | MAQLDVNNIMGDPFALVTLSMAMIGWLLSLVTCVISDVQGIFPNYVWWAVTYMFVTIIGLAIVMGSQTSHVYAIAIVGYLAAGLCFTTLAVNSLVYDGSATKQAAAAGFILQSMVIIIWIFYFGSTPRSSTRGYLDHSGGAGNEHHSYRNSKPISNSYGRPETTVSGNQPPQMYTSAQLNGFETSTPIAGYPSTATDNPNNAGRFGQAPIGSQTNLTPGNNPVVGAGGISLGMGGATDPSNANEISQPTEYPYRAKAIYSYEANPDDANEISFAKHEILDVSDVSGRWWQAKKATGETGIAPSNYLILL |
| 1009 | sp|A1CAL7|SHO1\_ASPCL | MARFRASNILGDPFALATISIAILAWIIAFISSIIANIKMADYPNHAWWAIAYMFCCTIGVTVVVGSDTGLVYGVAVVGYLSAGLVLTSLSVNTLVYKGNSSAQAAAAGFILLSMIIIVWIFYFGSTPQATHRGFIDSFALNKEGGNAYGNGRPISTAFGHRPETTSTSAPQMYTSAQLNGFETSSPISGYPGGAPGSENRSSSQPRFGNPSASNLPANNNGQSQDEVPQPTEYPYRAKAIYSYDANPEDANEISFSKHEILEVSDVSGRWWQARKSSGETGIAPSNYLILL |
| 1010 | sp|P63166|SUMO1\_MOUSE | MSDQEAKPSTEDLGDKKEGEYIKLKVIGQDSSEIHFKVKMTTHLKKLKESYCQRQGVPMNSLRFLFEGQRIADNHTPKELGMEEEDVIEVYQEQTGGHSTV |
| 1011 | sp|Q9SUM4|VIL2\_ARATH | MDSSLDGAAGDSSKCSEMSVDEKRQLVYELSKQSHLAAEVLQAWSRQEILQILCAEMGKERKYTGLTKVKIIETLLKIVSEKNSGECEGKKRDSDCLPIQRNTKRQRKVDNPSRYVIPATNIVTSNNASGSCSSVNTKGESTTIYCKNLACRAVLRQEDSFCRRCSCCICRKYDDNKDPSLWLTCSSDPPFEGESCGFSCHLECAFNTEKSGLGKDKQSEGCCFYCVSCGKANSLLECWKKQLTIAKETRRVEVLCYRLFLVQKLLKSSTKYRNLCEVVDEAVKTLEADVGPLTGLPMKMGRGIVNRLHSGPDVQKLCSSALESLETIATTPPDVAALPSPRSSKMQQDCSYVLSNEISADTATTGSTKIRFEDVNATSLTVVLASNEIPSPPNIVHYSIWHRKVPEKDYPEKSTCTLFIPNTRFVVSGLAPASEYCFKVVSYSGTREMGVDEINVLTRSAEEGANCSSAVERSVSPLTNCSTLSSNPSSVEAESNNDYIVPKKPSSKNEDNNSPSVDESAAKRMKRTTDSDIVQIEKDVEQIVLLDDEEQEAVLDKTESETPVVVTTKSLVGNRNSSDASLPITPFRSDEIKNRQARIEISMKDNCNNGDHSANGGTESGLEHCVKIIRQLECSGHIDKNFRQKFLTWYSLRATSQEIRVVKIFIDTFIDDPMALAEQLIDTFDDRVSIKRSAVGGSGASAVVPSGFCMKLWH |
| 1012 | sp|Q06823|SP21\_STIAD | MADLSVRRGTGSTPQRTREWDPFQQMQELMNWDPFELANHPWFANRQGPPAFVPAFEVRETKEAYIFKADLPGVDEKDIEVTLTGDRVSVSGKREREKREESERFYAYERSFGSFSRAFTLPEGVDGDNVRADLKNGVLTLTLPKRPEVQPKRIQVASSGTEQKEHIKA |
| 1013 | sp|F4K410|SVR3\_ARATH | MELSLSTSSASPAVLRRQASPLLHKQQVLGVSFASALKPGGGALRFPSRRPLPRPITCSASPSTAEPASEVKKKQLDRRDNVRNIAIVAHVDHGKTTLVDSMLRQAKVFRDNQVMQERIMDSNDLERERGITILSKNTSITYKNTKVNIIDTPGHSDFGGEVERVLNMVDGVLLVVDSVEGPMPQTRFVLKKALEFGHAVVVVVNKIDRPSARPEFVVNSTFELFIELNATDEQCDFQAIYASGIKGKAGLSPDDLAEDLGPLFEAIIRCVPGPNIEKDGALQMLATNIEYDEHKGRIAIGRLHAGVLRKGMDVRVCTSEDSCRFARVSELFVYEKFYRVPTDSVEAGDICAVCGIDNIQIGETIADKVHGKPLPTIKVEEPTVKMSFSVNTSPFSGREGKYVTSRNLRDRLNRELERNLAMKVEDGETADTFIVSGRGTLHITILIENMRREGYEFMVGPPKVINKRVNDKLLEPYEIATVEVPEAHMGPVVELLGKRRGQMFDMQGVGSEGTTFLRYKIPTRGLLGLRNAILTASRGTAILNTVFDSYGPWAGDISTRDLGSLVAFEDGTSTSYALASAQERGQMFVGSGVDVYKGQIVGIHQRPGDLGLNICKKKAATNIRSNKDVTVILDTPLTYSLDDCIEYIEEDELVEVTPSSIRMCKNQKMAKKGRQ |
| 1014 | sp|Q47157|YAFO\_ECOLI | MRVFKTKLIRLQLTAEELDALTADFISYKRDGVLPDIFGRDALYDDSFTWPLIKFERVAHIHLANENNPFPPQLRQFSRTNDEAHLVYCQGAFDEQAWLLIAILKPEPHKLARDNNQMHKIGKMAEAFRMRF |
| 1015 | sp|G8QM62|YEDZ1\_AZOOP | MSKEIYAIHPPWLRVTHWLYVVAVVILVMSGWRIYDASPFFPFFIPKEITLGGWLGGALQWHFAAMWLLAVNGLIYLFFNIFSGRLWHKFFPLSLRAIVADLLDALKGKLSHADLSHYNALQRAAYLFAIADIIVIVLSGLVLWKSVQFPILRELLGGYEAARRVHFIGMSALVAFVGVHVAMVALVPRTLIAMIRGH |
| 1016 | sp|P64508|YOBF\_ECOLI | MCGIFSKEVLSKHVDVEYRFSAEPYIGASCSNVSVLSMLCLRAKKTI |
| 1017 | sp|P45470|YHBO\_ECOLI | MSKKIAVLITDEFEDSEFTSPADEFRKAGHEVITIEKQAGKTVKGKKGEASVTIDKSIDEVTPAEFDALLLPGGHSPDYLRGDNRFVTFTRDFVNSGKPVFAICHGPQLLISADVIRGRKLTAVKPIIIDVKNAGAEFYDQEVVVDKDQLVTSRTPDDLPAFNREALRLLGA |
| 1018 | sp|A8AMI9|YTFE\_CITK8 | MSFRDQPLGELALSIPRASALFRKYDMDYCCGGKQTLARAAARKELDVEAIEAELAQLAEQPIEKDWRTAPLAEIIDHIIVRYHDRHREQLPELILQATKVERVHADKPSVPKGLAKYLTMLHQELSSHMMKEEQILFPMIKQGMGSQAMGPISVMESEHDDAGELLEVIKHTTNNVTPPPEACTTWKAMYNGINEMIDDLMEHISLENNVLFPRALAGE |
| 1019 | sp|C6DDN6|YTFE\_PECCP | MAYRDQSLGELAIAIPRATKLFRELNLDFCCGGKQTLSRAAGKKDLNIDELEAQLEKLAAQPSDARDWREAPLADIIAYIIPRFHDRHREQLPELILMAEKVERVHHDKADCPHGLANQLTAIYNELSQHMMKEERILFPMIGQGMGANAAAPISVMEHEHDDAGRDVEVVKELTHGVVPPEGACNTWRALYSGINEFITDLMEHIHLENNLLFPRALRGE |
| 1020 | sp|Q45588|RSIW\_BACSU | MSCPEQIVQLMHMHLDGDILPKDEHVLNEHLETCEKCRKHFYEMEKSIALVRSTSHVEAPADFTANVMAKLPKEKKRASVKRWFRTHPVIAAAAVFIILMGGGFFNSWHNDHNFSVSKQPNLVVHNHTVTVPEGETVKGDVTVKNGKLIIKGKIDGDVTVVNGEKYMASAGQVTGQIEEINQLFDWTWYKMKSAGKSVLDAFNPNGEE |
| 1021 | sp|Q9M5P6|RSH2L\_ARATH | MVVATTIALYASPPSSVCSTPHQISCDLDLTSRSSSTSSSMASSPQKPIVGGLSSLFSSASVKSSSSSSCSYSTAVDEFSSLRYDRSDDLKDLSFSSSFGYSPAKFVNSFRRDHQSPISVLHGPVSCSCSPPMRMSRDRNLDGSFRLGASRLFNGFVRKALGSCVDYELGSDSGLVDELTFPMEVDTIKPYARDLLRRAQLRHKIFNDESVIKAFYEAEKAHRGQMRASRDPYLQHCVETAMLLANIGANSTVVVAGLLHDTVDDSFMSYDYILRNFGAGVADLVEGVSKLSQLSKLARENNTACKTVEADRLHPMFLAMADARAVLIKLADRLHNMKTLYALSPVKQQRFAKETLEIFAPLANCLGISTWKVQLENLCFKHLYPNQHNEMSTMLEDSFDEAMITSAIEKLDQALKKAGISYHVLCGRHKSLYSIYSKMLKKKLTVDEIHDIHGLRLIVDNEGDCYKALGVVHSLWSEVPGKLKDYITHPKFNGYQSLHTVVMDNGTVPLEVQIRTQEMHLQAEFGFAAHWRYKEGGCKYSSFVLQMVEWARWVVTWHCEAMSKDRSSISSSDSIKPPLQVFRLTLEDCPASYKPNSSQDGPVYVIVIENDKMSVQEFPASSTVSDLLSRAGPGSSRWSMYGIPAKEELRPRLNQIPVSDLKWKLKMGDVVELTPKIPDESLTEYREEIQRMYDRGLAFSRPGTMVGWGS |
| 1022 | sp|Q75LR7|SAPK1\_ORYSJ | MERYEVMRDIGSGNFGVAKLVRDVATNHLFAVKFIERGLKIDEHVQREIMNHRSLKHPNIIRFKEVVLTPTHLAIVMEYAAGGELFERICNAGRFSEDEARFFFQQLISGVSYCHSMQVCHRDLKLENTLLDGSVTPRLKICDFGYSKSSVLHSQPKSTVGTPAYIAPEVLSRKEYDGKVADVWSCGVTLYVMLVGAYPFEDPDDPRNFRKTITRILSVQYSIPDYVRVSADCRHLLSRIFVGNPEQRITIPEIKNHPWFLKNLPIEMTDEYQRSMQLADMNTPSQSLEEVMAIIQEARKPGDAMKLAGAGQVACLGSMDLDDIDDIDDIDIENSGDFVCAL |
| 1023 | sp|Q6U1I9|SGK1\_CHICK | MTVKAAEASGPALTYSKMRGMVAILIAFMKQRRMGLNDFIQKIATNSYACKHPEVQSILKISQPQEPELMNANPSPPPSPSQQINLGPSSNPHAKPSDFHFLKVIGKGSFGKVLLARHKAEEQFYAVKVLQKKAILKKKEEKHIMSERNVLLKNVKHPFLVGLHFSFQTADKLYFVLDYINGGELFYHLQRERCFLEPRARFYAAEIASALGYLHSLNIVYRDLKPENILLDSQGHIVLTDFGLCKENIEHNGTTSTFCGTPEYLAPEVLHKQPYDRTVDWWCLGAVLYEMLYGLPPFYSRNTAEMYDNILNKPLQLKPNITNSARHLLEGLLQKDRTKRLGAKEDFTEIKNHIFFSPINWDDLINKKITPPFNPNVSGPSDLRHFDPEFTDEPVPNSIGQSPDSILITASVKEAAEAFLGFSYAPPVDSFL |
| 1024 | sp|D8PSG0|SHO1\_SCHCM | MPPRGNEGLDFTPIITHYLFLFTSILAFIAWFTAFIGQIIATARWNGPVGTLWFAIFLHLFLILGVLYTLASDSLATHRFQISVFGAVALVFAVNGANAGLYAEDGALNAMAAGYLILAIVDILWLLFFTAEEESLLFHLFNRLGTGGLTPPSRRRRARSVHNMAPANGYASGGYGAGGGISSHDVATGAYDAKPVSGAFDARSGTASGAFDNKSAGAGAGLNSPGGGARSQHSLGGPTTATGSVHSPRGEDGTGSPLMAQGDMSGAGTSGEFLPKAKALYAYTASPDDPNEISFAKGEILEVTDKSGKWWSARKADGTNGIAPSNYLQLL |
| 1025 | sp|Q6FTC4|SHO1\_CANGA | MSGRRGKIINPRTRGAVRNVGFRNLISDPFAISSILIGLISWVITLGGCISVQVNEDFPRFTWWGIAFQFLIILMLIGFYIYDLVDYYRNFLTASIGVAFVYSTNSANYLIYGSGNQKAAASAGVVLLSMVNLIWIFYYGGDNASPINRWVDSFSLNGIRPSPFEAAKIKAYRRSSKQTQFRGSSVKLTHSTNNLHSASENLGLDNGFYNNPHTSNYVSSTALTEFENTGPPYPSASDLPTNNNAPLRSPQLGNNTIGDTYITATTNNNTNTTMGDTMGLYADLADESFPYRVKALYSYEADSADAYEMSFEQGEILMVSDIEGRWWKAKKESGETGIIPSNYVTIIDNDTEA |
| 1026 | sp|P54867|SLG1\_YEAST | MRPNKTSLLLALLSILSQANAYEYVNCFSSLPSDFSKADSYNWQSSSHCNSECSAKGASYFALYNHSECYCGDTNPSGSESTSSSCNTYCFGYSSEMCGGEDAYSVYQLDSDTNSNSISSSDSSTESTSASSSTTSSTTSSTTSTTSSTTSSTTSSMASSSTVQNSPESTQAAASISTSQSSSTVTSESSLTSDTLATSSTSSQSQDATSIIYSTTFHTEGGSTIFVTNTITASAQNSGSATGTAGSDSTSGSKTHKKKANVGAIVGGVVGGVVGAVAIALCILLIVRHINMKREQDRMEKEYQEAIKPVEYPDKLYASSFSSNHGPSSGSFEEEHTKGQTDINPFDDSRRISNGTFINGGPGGKNNVLTVVNPDEAD |
| 1027 | sp|Q2YT26|SODM1\_STAAB | MAFELPKLPYAFDALEPHFDKETMEIHHDRHHNTYVTKLNAAVEGTDLESKSIEEIVANLDSVPANIQTAVRNNGGGHLNHSLFWELLSPNSEEKGTVVEKIKEQWGSLEEFKKEFADKAAARFGSGWAWLVVNNGQLEIVTTPNQDNPLTEGKTPILGLDVWEHAYYLKYQNKRPDYIGAFWNVVNWEKVDELYNATK |
| 1028 | sp|O34321|SLTSR\_BACSU | MDFEKMKQWMEFAQQMYGGDFWKQVFDEDQKTPFMTNGQSPFPFAQQDQRGKGDASFPSMDIVDTVAEVQFLIYLPGYRKQDVHILSYGDYLVVKGQRFSYFNEQDFRQKEGKYGSFEKKIPLSDHLHGKMNAIFKDGILYITIQKDEGQAKTIVIDD |
| 1029 | sp|A0A0H2ZJC1|SUTA\_PSEAB | MSEEELEQDELDGADEDDGEELAAADDGEADSSDGDEAPAPGKKAKAAVVEEELPSVEAKQKERDALAKAMEEFLSRGGKVQEIEPNVVADPPKKPDSKYGSRPI |
| 1030 | sp|Q5HJB7|SCDA\_STAAC | MINKNDIVADVVTDYPKAADIFRSVGIDFCCGGQVSIEAAALEKKNVDLNELLQRLNDVEQTNTPGSLNPKFLNVSSLIQYIQSAYHEPLREEFKNLTPYVTKLSKVHGPNHPYLVELKETYDTFKNGMLEHMQKEDDVDFPKLIKYEQGEVVDDINTVIDDLVSDHIATGELLVKMSELTSSYEPPIEACGTWRLVYQRLKALEVLTHEHVHLENHVLFKKVS |
| 1031 | sp|C5JGE5|SHO1\_BLAGS | MVTYSANYSPSFQRRSPVAVHNRRSNMARMDLNNIVGDPFALITISTSMIAWLLSFVTCVISDIQGLFPNFAWWAVGYMLCAIIGISIVLGSQTSHVYGVAIVGYLAAGLAFTSLAVNSLIYDDEASKQAAAAGFILQSMVIIVWIFYFGSSRHSSSRGYHDSMGAGKEQHHSYRNSKPISNNYGARPETTVSANQPPQMYTSAQLNGFETSSPVSGFPPTATNGADIQNRFGTTLGSQTNLGGGSTIGQDHQSTNEVSQPTEYPYRAKAIYSYEANPDDANEISFAKHEILDVSDVSGRWWQAKKASGETGIAPSNYLILI |
| 1032 | sp|E7KBW4|SHO1\_YEASA | MSISSKIRPTPRKPSRMATDHSFKMKNFYADPFAISSISLAIVSWVIAIGGSISSASTNESFPRFTWWGIVYQFLIICSLMLFYCFDLVDHYRIFITTSIAVAFVYNTNSATNLVYADGPKKAAASAGVILLSIINLIWILYYGGDNASPTNRWIDSFSIKGIRPSPLENSLHRARRRGNRNTTPYQNNVYNDAIRDSGYATQFDGYPQQQPSHTNYVSSTALAGFENTQPNTSEAVNLHLNTLQQRINSASNAKETNDNSNNQTNTNIGNTFDTDFSNGNTETTMGDTLGLYSDIGDDNFIYKAKALYPYDADDDDAYEISFEQNEILQVSDIEGRWWKARRANGETGIIPSNYVQLIDGPEEMHR |
| 1033 | sp|Q9SW70|SRP\_VITRI | MAESEAKQQPETVHGEEKRLKYLDFVQVAAIYVIVCFSSLYEYAKENSGPLKPGVQTVEGTVKTVIGPVYEKFYDVPFELLMFVDRKVEASIYELERHVPSLVKRASCQAITVAQKAPELALAVASEVQRPGVVDTAKNITKNVYSKCEPTAKELCSKYEPVAEQYAVSAWRSLNRLPLFPQVAQVVVPTAAYWSEKYNQSVSYTAERGYTVALYLPLIPTERIAKVFQDGSALPTVETNGNAIPLAQ |
| 1034 | sp|O82289|SRO1\_ARATH | MEAKIVKVSDSSYKDGLGKKRKHPGNYTPYDSGRSYAKLQWVLSPNSSTQKLEKRRNLDGENKVIVSENHVEKSLVRYFSYYKKTGVPKRVMFHENGEWIDLPDHILCDIRNDLEAKRATIEFNWCGRHFLLDFLHMYRLDLETGVKTQLAWIDIAGKCFFPETFDTLERDGCHHIRGEDPEQHDQREIKLHIEIDVNSGELPRLNLNVVTDESGDNMDDFQAVQRSSNGPNDEASEDSCSRELDDAVEKWDKTETDRFSGVKPAEEELDKDAVKQMFALGAATLGHVESLDVYQFSSEIAKARLSLFQKQADITKKHRGDANIRYAWVPAKKEVLSAVMMHGLGVGGAFIKKSMYGVGVHAANCPYFSARYCDIDDNGVRHMVLCRVIMGNMEPLRGDNTQYFTGGEEYDNGVDDVESPKHYLIWNMNMNTHIYPEFVVSFKLSIPNAEGNILPTTQSRHESSGLTLEGPKGSPSNEPGRVSNGGSGSEKNSSSSRRPRSPIMPFPLLFKAISSKIARKDMDLIIAGYQELREKKVSRKEFYKTLSMIVGDDDLLISTITGLQRSLG |
| 1035 | sp|Q9NS93|TM7S3\_HUMAN | MGFLQLLVVAVLASEHRVAGAAEVFGNSSEGLIEFSVGKFRYFELNRPFPEEAILHDISSNVTFLIFQIHSQYQNTTVSFSPTLLSNSSETGTASGLVFILRPEQSTCTWYLGTSGIQPVQNMAILLSYSERDPVPGGCNLEFDLDIDPNIYLEYNFFETTIKFAPANLGYARGVDPPPCDAGTDQDSRWRLQYDVYQYFLPENDLTEEMLLKHLQRMVSVPQVKASALKVVTLTANDKTSVSFSSLPGQGVIYNVIVWDPFLNTSAAYIPAHTYACSFEAGEGSCASLGRVSSKVFFTLFALLGFFICFFGHRFWKTELFFIGFIIMGFFFYILITRLTPIKYDVNLILTAVTGSVGGMFLVAVWWRFGILSICMLCVGLVLGFLISSVTFFTPLGNLKIFHDDGVFWVTFSCIAILIPVVFMGCLRILNILTCGVIGSYSVVLAIDSYWSTSLSYITLNVLKRALNKDFHRAFTNVPFQTNDFIILAVWGMLAVSGITLQIRRERGRPFFPPHPYKLWKQERERRVTNILDPSYHIPPLRERLYGRLTQIKGLFQKEQPAGERTPLLL |
| 1036 | sp|P0AGB6|RPOE\_ECOLI | MSEQLTDQVLVERVQKGDQKAFNLLVVRYQHKVASLVSRYVPSGDVPDVVQEAFIKAYRALDSFRGDSAFYTWLYRIAVNTAKNYLVAQGRRPPSSDVDAIEAENFESGGALKEISNPENLMLSEELRQIVFRTIESLPEDLRMAITLRELDGLSYEEIAAIMDCPVGTVRSRIFRAREAIDNKVQPLIRR |
| 1037 | sp|O95197|RTN3\_HUMAN | MAEPSAATQSHSISSSSFGAEPSAPGGGGSPGACPALGTKSCSSSCADSFVSSSSSQPVSLFSTSQEGLSSLCSDEPSSEIMTSSFLSSSEIHNTGLTILHGEKSHVLGSQPILAKEGKDHLDLLDMKKMEKPQGTSNNVSDSSVSLAAGVHCDRPSIPASFPEHPAFLSKKIGQVEEQIDKETKNPNGVSSREAKTALDADDRFTLLTAQKPPTEYSKVEGIYTYSLSPSKVSGDDVIEKDSPESPFEVIIDKAAFDKEFKDSYKESTDDFGSWSVHTDKESSEDISETNDKLFPLRNKEAGRYPMSALLSRQFSHTNAALEEVSRCVNDMHNFTNEILTWDLVPQVKQQTDKSSDCITKTTGLDMSEYNSEIPVVNLKTSTHQKTPVCSIDGSTPITKSTGDWAEASLQQENAITGKPVPDSLNSTKEFSIKGVQGNMQKQDDTLAELPGSPPEKCDSLGSGVATVKVVLPDDHLKDEMDWQSSALGEITEADSSGESDDTVIEDITADTSFENNKIQAEKPVSIPSAVVKTGEREIKEIPSCEREEKTSKNFEELVSDSELHQDQPDILGRSPASEAACSKVPDTNVSLEDVSEVAPEKPITTENPKLPSTVSPNVFNETEFSLNVTTSAYLESLHGKNVKHIDDSSPEDLIAAFTETRDKGIVDSERNAFKAISEKMTDFKTTPPVEVLHENESGGSEIKDIGSKYSEQSKETNGSEPLGVFPTQGTPVASLDLEQEQLTIKALKELGERQVEKSTSAQRDAELPSEEVLKQTFTFAPESWPQRSYDILERNVKNGSDLGISQKPITIRETTRVDAVSSLSKTELVKKHVLARLLTDFSVHDLIFWRDVKKTGFVFGTTLIMLLSLAAFSVISVVSYLILALLSVTISFRIYKSVIQAVQKSEEGHPFKAYLDVDITLSSEAFHNYMNAAMVHINRALKLIIRLFLVEDLVDSLKLAVFMWLMTYVGAVFNGITLLILAELLIFSVPIVYEKYKTQIDHYVGIARDQTKSIVEKIQAKLPGIAKKKAE |
| 1038 | sp|Q1RBS2|SAFA\_ECOUT | MHATTVKNKITQRDNYKEIMSVIVVVLLLTLTLIAIFSAIDQLGISEMGRMARDLTHFIINSLLD |
| 1039 | sp|P9WGI5|SIGB\_MYCTU | MADAPTRATTSRVDSDLDAQSPAADLVRVYLNGIGKTALLNAAGEVELAKRIEAGLYAEHLLETRKRLGENRKRDLAAVVRDGEAARRHLLEANLRLVVSLAKRYTGRGMPLLDLIQEGNLGLIRAMEKFDYTKGFKFSTYATWWIRQAITRGMADQSRTIRLPVHLVEQVNKLARIKREMHQHLGREATDEELAAESGIPIDKINDLLEHSRDPVSLDMPVGSEEEAPLGDFIEDAEAMSAENAVIAELLHTDIRSVLATLDEREHQVIRLRFGLDDGQPRTLDQIGKLFGLSRERVRQIERDVMSKLRHGERADRLRSYAS |
| 1040 | sp|B6HR44|SHO1\_PENRW | MAKFRPSNILGDPFALMTISISILAWLIAFISSIIADVQTQYPNYSWWAISYMFCVIVGLVTTFGTDTGHVYGVAIVGYLACGLVLTSTSANNLIYGKQASMQAAGAGFILLSMIIILWIFYFGSTPQATHRGFIDSFALNKEQPGDPSYRGSRPMSSTFGARPDTVATNNTPQMYTSAQLGGFETSSPVSGYPGGAPGAERASSAPRFGTPNPSTPGNGEQEVGEVPQPTEYPYRAKAIYSYDANPEDANEISFAKHEILEVSDVSGRWWQARKQNGDTGIAPSNYLILL |
| 1041 | sp|P68576|SCP1\_BPSPB | MEFKVGQDVSEIWNIHGSILPEVLMYMFPRSDESYDWEFVNDNGRHIFTAWRKSEPIPTLEEIEKAAIELEEKKNAPKPKTLEERVADLEKQVAYLTSKVEGTN |
| 1042 | sp|Q10136|STE7\_SCHPO | MFLEIILDSATYSFDRVITGKICFETNAATSPRSFQIQLRIKGYAVYHHGFLSSPSHKHPTTASASDSDEATEIFTHSQPLPIPAGPSSKSHAIDFKFKFPSKSASSLPCSKSNDSMVNICYMLKATISKRYAFLGSSQSAKAELIMVPPNLAGKPLSANSSFGSSAKTFQLPEFDSVTPSASLYKQPSFNSNPAPITTSSATHTSQFSTSSSSSVNSVHTPVMVPNPYFQYNSSMTAPSSSSSSVAPFVPRRQFSVSSASDPPQTPISMSPPIPPTPSQFSAFMYQNQQSYLSPQSHYENPLSISSRPSPCCPSTPSSAVTLSNGFDSQSNAYNNSGTGPPMLYKFPQRSYTAPNTSFNSQRRMSSITSLPTASFCPVKHGVSPPSLAGNQPSPLSSPLTNSNVSPSTICSPDNNVTFVNLAPGEKLTFKIEPNDLMDEEEVVENSNMYSIPGKTVATTVCHSSSSSGDFSALSCHRNLSFSESLPTAEDQVHNNHCAVSPSRRSSSNALYLATLPMGYERSNSVSYCSDSSLSSPLPDDNMLQDPHALNMAYAKEFDVLINEVLQSL |
| 1043 | sp|A5AEM3|THS4\_VITVI | MASVEEIRNAQRAKGPATVLAIGTATPDNCLYQSDFADYYFRVTKSEHMTELKKKFNRICDKSMIKKRYIHLTEEMLEEHPNIGAYMAPSLNIRQEIITAEVPKLGKEAALKALKEWGQPKSKITHLVFCTTSGVEMPGADYKLANLLGLEPSVRRVMLYHQGCYAGGTVLRTAKDLAENNAGARVLVVCSEITVVTFRGPSEDALDSLVGQALFGDGSAAVIVGSDPDISIERPLFQLVSAAQTFIPNSAGAIAGNLREVGLTFHLWPNVPTLISENIENCLTKAFDPIGISDWNSLFWIAHPGGPAILDAVEAKVGLDKQKLKATRHILSEYGNMSSACVLFILDEMRKKSLKEGKTTTGEGLDWGVLFGFGPGLTIETVVLHSVGTDSN |
| 1044 | sp|Q2V3L3|YY1\_ARATH | MDHQNYQYQNPFERRPILKSKAPAVKWIKEWVPQDIVATGGKCHLHKWVTEDTFSRLKEKEKEPDVPEPEPEPTTEILFLCSYDGCGKTFFDVSALRKHSHIHGERQYVCDQEGCGKKFLDSSKLKRHYLIHTGERNYICTYEGCGKAFSLDFNLRSHMKTHSQENYHICPYSGCVKRYAHEYKLKNHVAAYHEKNGGGETPKYTPPAEKVLRTVKTPATVCGPSSDRPYACPYEGCEKAYIHEYKLKLHLKREHPGHLQEENADTPTLNKHNGNDRNEIDDGSDQDVYRKHASNGKGQTHKQQSRAKPNMRTPPAKVGKKGSTSSPAKARIAKKPWQAKETFEEVEREEEEDSEETEEDRDNVEDGWRFGENNEDDDDDEETEYED |
| 1045 | sp|B7LLZ8|YTFE\_ESCF3 | MAYRDQPLGELALSIPRASALFRKYDMDYCCGGKQTLARAAARKELDVDVIEAELAKLAEQPIEKDWRSAPLAEIIDHIIVRYHDRHREQLPELILQATKVERVHADKPSVPKGLTKYLTMLHEELSSHMMKEEQILFPMIKQGMGSQAMGPISVMESEHDEAGELLEVIKHTTNNVTPPPEACTTWKAMYNGINELIDDLMEHISLENNVLFPRALAGE |
| 1046 | sp|C6CAS5|YTFE\_DICP7 | MHYREKSLGELAIAIPRATALFREFNLDFCCGGKQTLQHAAGKRQLDIAMLEARLAELDAEPPSEKNWRAAPLNDMIPYIVQRFHDRHREQLPELIIMAEKVERVHQDKSACPHGLAAQLTLILDDLSQHMMKEERILFPMIQAGMGRQAAGPISVMEHEHDDAGQQLEVVKTLTDNLTPPADACNTWRALYAGIGEFITDLMEHIHLENNLLFPRALRGEA |
| 1047 | sp|Q9FFB6|ZFP34\_ARATH | MDMGFHENEQNQEFANLMEIGSGHYGCSHYRRRCKIRAPCCDEIFDCRHCHNEAKDSLHIEQHHRHELPRHEVSKVICSLCETEQDVQQNCSNCGVCMGKYFCSKCKFFDDDLSKKQYHCDECGICRTGGEENFFHCKRCRCCYSKIMEDKHQCVEGAMHHNCPVCFEYLFDSTRDITVLRCGHTMHLECTKDMGLHNRYTCPVCSKSICDMSNLWKKLDEEVAAYPMPKMYENKMVWILCNDCGSNTNVRFHLIAHKCSSCGSYNTRQTQRGSDSHSCSSGMPQVVGSTG |
| 1048 | sp|Q5JL96|ZFP34\_ORYSJ | MGAMDVQLESTAVQHGQAKINVEEHALVSLLSDEKYATEKTEDVDPDDYEKLEEGIMQYGCAHYRRRCRIRAPCCNEIFDCRHCHNETKNSIKIDAVKRHELPRHEVQQVICSLCGTEQEVRQVCISCGVCMGKYFCEVCKLFDDDVSKQQYHCNGCGICRIGGKENFFHCSKCGCCYSIVLKNSHACVEGAMHHDCPICFEYLFESTNDVSVLPCGHTIHVKCLREMEEHCQFACPLCSKSVCDMSKAWERLDEELATISDTCDNKMVRILCNDCGATSEVQFHLIAHKCQKCKSYNTRQI |
| 1049 | sp|P44790|RPOE\_HAEIN | MAEQLTDQALVERVQQGDKKAFNLLVSRYQNKVAGLLTRYVSRNDIPDVVQESFIKAYRSIESFRGESAFYTWLYRIAVNTAKNYLTAQGRRPPNEDILAEDAENYDVGTHLRDVDTPENEMLSSELERIVFDTIHNLPEDLKTAITLRELEGLSYEDIAEIMDCPVGTVRSRIFRAREMIENKIQPLM |
| 1050 | sp|F5ZTT9|RPOS\_SALTU | MSQNTLKVHDLNEDAEFDENGVEAFDEKALSEEEPSDNDLAEEELLSQGATQRVLDATQLYLGEIGYSPLLTAEEEVYFARRALRGDVASRRRMIESNLRLVVKIARRYGNRGLALLDLIEEGNLGLIRAVEKFDPERGFRFSTYATWWIRQTIERAIMNQTRTIRLPIHIVKELNVYLRTARELSHKLDHEPSAEEIAEQLDKPVDDVSRMLRLNERITSVDTPLGGDSEKALLDILADEKENGPEDTTQDDDMKQSIVKWLFELNAKQREVLARRFGLLGYEAATLEDVGREIGLTRERVRQIQVEGLRRLREILQTQGLNIEALFRE |
| 1051 | sp|P50507|RPOH\_RHIRD | MARNSLPTITAGEAGLNRYLDEIRKFPMLEPQEEYMLGKRYAEHGDRDAAHKLVTSHLRLVAKIAMGYRGYGLPIGEVVSEGNVGLMQAVKKFDPERGFRLATYAMWWIKASIQEYILRSWSLVKMGTTANQKRLFFNLRRLKGRIQAIDDGDLKPEHVKEIATKLQVSEEEVISMNRRLHGDASLNAPIKASEGESGQWQDWLVDDHESQEAVLIEQDELETRRRMLAKAMGVLNDRERRIFEARRLAEDPVTLEELSSEFDISRERVRQIEVRAFEKVQEAVQKEALEAARALRVVDA |
| 1052 | sp|J7MFT5|SAHS1\_RAMVA | MSRAAVAIALLGCVVAAYGAPAEGHDDAKAEWTGKSWMGKWESTDRIENFDAFISALGLPLEQYGGNHKTFHKIWKEGDHYHHQISVPDKNYKNDVNFKLNEEGTTQHNNTEIKYKYTEDGGNLKAEVHVPSRNKVIHDEYKVNGDELEKTYKVGDVTAKRWYKKSSSS |
| 1053 | sp|P0AEV1|RSSB\_ECOLI | MTQPLVGKQILIVEDEQVFRSLLDSWFSSLGATTVLAADGVDALELLGGFTPDLMICDIAMPRMNGLKLLEHIRNRGDQTPVLVISATENMADIAKALRLGVEDVLLKPVKDLNRLREMVFACLYPSMFNSRVEEEERLFRDWDAMVDNPAAAAKLLQELQPPVQQVISHCRVNYRQLVAADKPGLVLDIAALSENDLAFYCLDVTRAGHNGVLAALLLRALFNGLLQEQLAHQNQRLPELGALLKQVNHLLRQANLPGQFPLLVGYYHRELKNLILVSAGLNATLNTGEHQVQISNGVPLGTLGNAYLNQLSQRCDAWQCQIWGTGGRLRLMLSAE |
| 1054 | sp|P0AEV3|RSSB\_SHIFL | MTQPLVGKQILIVEDEQVFRSLLDSWFSSLGATTVLAADGVDALELLGGFTPDLMICDIAMPRMNGLKLLEHIRNRGDQTPVLVISATENMADIAKALRLGVEDVLLKPVKDLNRLREMVFACLYPSMFNSRVEEEERLFRDWDAMVDNPAAAAKLLQELQPPVQQVISHCRVNYRQLVAADKPGLVLDIAALSENDLAFYCLDVTRAGHNGVLAALLLRALFNGLLQEQLAHQNQRLPELGALLKQVNHLLRQANLPGQFPLLVGYYHRELKNLILVSAGLNATLNTGEHQVQISNGVPLGTLGNAYLNQLSQRCDAWQCQIWGTGGRLRLMLSAE |
| 1055 | sp|E3QNZ1|SHO1\_COLGM | MEQSRAQYGRKGINMGNIIGDPFALATVSISMLAWIIAFISSIIATTQVTNDSGSFPPFAWWTVVYMSFVIAGVFVVVASDTAQTYHVALTGYLGAALALNSLTIHSLIYSANGARQAAGAGFILMAMVTIVWIFYFGSAPSAKPRAYLDSFALQKESHSRQMMYGGGRPETSTSVQPPQMYTSAQLNGFENPSPVQGISTTQARNSVVAPTFNATPPATKGPGQDQEVVPPTEYPYRAKAIYSYEANPDDANEISFSKHEILEVSDVSGRWWQARKETGETGIAPSNYLILL |
| 1056 | sp|D4DA58|SHO1\_TRIVH | MARFQMSNLVGDPFALATVSIGMLAWIIGVVSCSIAHTKEVVPNFFWWSIAYQLCVLVGVAVVMGSNTSHIYGTAVVGYAAAGLVCTTFTLDSLVTSKQGARQSAGAGLILLAMTDIVWIFYFGSTSQSGPRAYIDSFAPHKEQPHSYRNSKPISHSYTPRPETTVSSAHPHMYSSAPLSGFETSSPMTGFNPAAASTTGLQPVLGSQTNASTVGGETGEVGQPTEYPYRAKAIYSYEANPDDANEISFTKHEILEVSDVSGRWWQAKKSTGETGIAPSNYLILL |
| 1057 | sp|Q00764|TPS1\_YEAST | MTTDNAKAQLTSSSGGNIIVVSNRLPVTITKNSSTGQYEYAMSSGGLVTALEGLKKTYTFKWFGWPGLEIPDDEKDQVRKDLLEKFNAVPIFLSDEIADLHYNGFSNSILWPLFHYHPGEINFDENAWLAYNEANQTFTNEIAKTMNHNDLIWVHDYHLMLVPEMLRVKIHEKQLQNVKVGWFLHTPFPSSEIYRILPVRQEILKGVLSCDLVGFHTYDYARHFLSSVQRVLNVNTLPNGVEYQGRFVNVGAFPIGIDVDKFTDGLKKESVQKRIQQLKETFKGCKIIVGVDRLDYIKGVPQKLHAMEVFLNEHPEWRGKVVLVQVAVPSRGDVEEYQYLRSVVNELVGRINGQFGTVEFVPIHFMHKSIPFEELISLYAVSDVCLVSSTRDGMNLVSYEYIACQEEKKGSLILSEFTGAAQSLNGAIIVNPWNTDDLSDAINEALTLPDVKKEVNWEKLYKYISKYTSAFWGENFVHELYSTSSSSTSSSATKN |
| 1058 | sp|Q9SIN1|TTL3\_ARATH | MSHSRRLSLEPAIDSITGRFRDLQRNDDDVNKPDFRELDLGSPVSTLMPRGSASSSAAATPTSSSGSSGSASGKPSVSSQMAKRLDDAYKSHSGELSSPGSGMPTTTRILKPGHRRSSSTGTPLIFSGSSFTSATSHTSPQGGGSGATSAVSPNTGVLPAGNICPSGRILKTGMASRTSSRTETLCTGTGNYGHGNVVRSGGGGGTSGKAVRVAENGENPEELKRMGNDMYRRGSFSEALSLYDRAILISPGNAAYRSNRAAALTALRRLGEAVKECLEAVRIDPSYSRAHQRLASLYLRLGEAENARRHICFSGQCPDQADLQRLQTLEKHLRRCWEARKIGDWKTAIKETDAAIANGADSSPQLVACKAEAFLRLKQIEDSDFCVSCIPRLDHHYHSQPQVKLFGMVVEAYVLCIQAQVDMALGRFENAVVKAERAAMLDQTNPEVVSVLNNVKMVVRARTRGNELFSSGRFSEACVAYGDGLKQDDSNSVLYCNRAACWYKLGLWEKSVEDCNHALKSQPSYIKALLRRAASYGKLGRWEDAVKDYEFLRRELPGDSEVAESLERAKTVLMNRSQESKSLGFNNEVEAVSTLDKFKKSVALPGVSVFHFKSSSNRQCEEISPFINTLCLRYPLVHFFMVDVEESMALAKAESIRKVPTFKMYKNGDKVKEMVCPSHQFLEDSIKHFLL |
| 1059 | sp|B2TYT0|YTFE\_SHIB3 | MAYRDQPLGELALSIPRASALFRKYDMDYCCGGKQTLARAAARKELDVEVIEAELAKLAEQPIEKDWRSAPLAEIIDHIIVRYHDRHREQLPELILQATKVERVHADKPSVPKGLTKYLTMLHEELSSHMMKEEQILFPMIKQGMGSQAMGPISVMESEHDEAGELLEVIKHTTNNVTPPPEACTTWKAMYNGINELIDDLMDHISLENNVLFPRALAGE |
| 1060 | sp|P0DKG8|RSH1L\_ARATH | MTSASSMSVSVECVNICNLTKGDGNARSDCSALSCAWKAPRALTGFLASTAHPPVCSVYSCGRNGRKSRMKACAWQRYEYEVGFSEAPYFVNVRNILKSRLSCGGHKRWELYCVSAESSSGASSDVTVETLWEDLFPSISYLPRKELEFVQKGLKLAFEAHHGQKRRSGEPFIIHPVAVARILGELELDWESIVAGLLHDTVEDTNFITFEKIEEEFGATVRHIVEGETKVSKLGKLKCKTESETIQDVKADDLRQMFLAMTDEVRVIIVKLADRLHNMRTLCHMPPHKQSSIAGETLQVFAPLAKLLGMYSIKSELENLSFMYVSAEDYDRVTSRIANLYKEHEKELTEANRILVKKIEDDQFLDLVTVNTDVRSVCKETYSIYKAALKSKGSINDYNQIAQLRIVVKPKPSVGVGPLCSPQQICYHVLGLVHEIWKPIPRTVKDYIATPKPNGYQSLHTTVIPFLYESMFRLEVQIRTEEMDLIAERGIAVYYNGKSLSTGLVGNAVPLGRNSRGKTGCLNNADFALRVGWLNAIREWQEEFVGNMSSREFVDTITRDLLGSRVFVFTPKGEIKNLPKGATVVDYAYLIHTEIGNKMVAAKVNGNLVSPTHVLENAEVVEIVTYNALSSKSAFQRHKQWLQHAKTRSARHKIMRFLREQAAQCAAEITQDQVNDFVADSDSDVEDLTEDSRKSLQWWEKILVNVKQFQSQDKSRDTTPAPQNGSVWAPKVNGKHNKAIKNSSSDEPEFLLPGDGIARILPANIPAYKEVLPGLDSWRDSKIATWHHLEGQSIEWLCVVSMDRKGIIAEVTTVLAAEGIALCSCVAEIDRGRGLAVMLFQIEANIESLVSVCAKVDLVLGVLGWSSGCSWPRSTENAQVLEC |
| 1061 | sp|Q0DJC7|SAP15\_ORYSJ | MAQESCDLNKDEAEILKPSSSSSPSPSPTTASPSPPTAQMTEPPPPQSTPPTPPAAAAAASAAAAPQFSAKNCEGILIEVSKKRKLAEATATDANAVVVAAVAEPLSPVLFVNRCNVCRKRVGLTGFRCRCGELFCPRHRHSETHECSFDYKTAGREEIARANPVIRAAKIIKI |
| 1062 | sp|A0A0H3CEP9|Y3364\_CAUVN | MTPSAGLGLKSQHYGDAIACDAEGLWFEVHPENYMSAGGPRLAALEAVRARRPVSLHGVGLSLAADTDPDPEHLQALKRLVDRFDPFVVSEHLAWSTHRGAHHPDLLPFPRTRAALDRICGNVARMQDALQRRVLIENPSLYLPLKGHALDEVDFLEALATRTGCGLLVDVNNVFVSAQNLGYAPETYLDALPAHAIGEIHLAGHAPDPGGSNLLIDTHGAPVAEVVWTLYARLIARIGPRPTLIERDDDIPDFAALMAERNRAVAVLASGQTAREPAHV |
| 1063 | sp|P0AD49|YFIA\_ECOLI | MTMNITSKQMEITPAIRQHVADRLAKLEKWQTHLINPHIILSKEPQGFVADATINTPNGVLVASGKHEDMYTAINELINKLERQLNKLQHKGEARRAATSVKDANFVEEVEEE |
| 1064 | sp|Q2EES1|YNID\_ECOLI | MPTKRFDKKHWKMVVVLLAICGAMLLLRWAAMIWG |
| 1065 | sp|B7MSU8|YTFE\_ECO81 | MAYRDQPLGELALSIPRASALFRKYDMDYCCGGKQTLARAAARKELDVDVIEAELAKLAEQPIEKDWRSAPLAEIIDHIIVRYHDRHREQLPELILQATKVERVHADKPSVPKGLTKYLTMLHEELSSHMMKEEQILFPMIKQGMGSQAMGPISVMESEHDEAGELLEVIKHTTNNVTPPPEACTTWKAMYNGINELIDDLMEHISLENNILFPRALAGE |
| 1066 | sp|B5F3C5|YTFE\_SALA4 | MAYRDQPLGELALSIPRASALFRQYDMDYCCGGKQTLARAAARHDVDIDIIEAQLAQLAEQPIEKDWRAVPLADIIDHIVVRYHDRHREQLPELILQATKVERVHADKPNVPRGLTKYLTALHEELSSHMMKEEQILFPMIKQGMGRQATGPISVMESEHDEAGELVDVIKHVTQNVTPPPEACTTWKAMYNGINEMIDDLMEHISLENNVLFPRALAGE |
| 1067 | sp|P0ACA3|SSPA\_ECOLI | MAVAANKRSVMTLFSGPTDIYSHQVRIVLAEKGVSFEIEHVEKDNPPQDLIDLNPNQSVPTLVDRELTLWESRIIMEYLDERFPHPPLMPVYPVARGESRLYMHRIEKDWYTLMNTIINGSASEADAARKQLREELLAIAPVFGQKPYFLSDEFSLVDCYLAPLLWRLPQLGIEFSGPGAKELKGYMTRVFERDSFLASLTEAEREMRLGRS |
| 1068 | sp|Q7XI41|TPP3\_ORYSJ | MTNHAGFAADDAVTAAVPVQAAQGGRHFPPFLAPSSRLTDCKKAAAHVDLAGAGGVATVPGSWPRHAKPVSGAELDDWMEKHPSALAWFESVAAAAKGKEIVVFLDYDGTLSPIVADPDRAFMSDEMREAVRGVAKHFPTAIVSGRCIDKVFDFVKLEELYYAGSHGMDIRGPTAAASEYNHNMKAKQGDAVTFQPAADFLPVIEEVYHVLKERMASIRGSLVENNKFCLSVHYRCVDEAEWGVLDGKVRAVIEGYPDLRLSKGRKVLEIRPVIDWDKGSALQFLLKSLGYEGRNNVFPIYIGDDRTDEDAFKVLRNMGQGIGILVTKVPKETAASYTLREPSEVKEFLRKLVKIKINGDKGLIGK |
| 1069 | sp|P80880|TRXB\_BACSU | MSEEKIYDVIIIGAGPAGMTAAVYTSRANLSTLMIERGIPGGQMANTEDVENYPGFESILGPELSNKMFEHAKKFGAEYAYGDIKEVIDGKEYKVVKAGSKEYKARAVIIAAGAEYKKIGVPGEKELGGRGVSYCAVCDGAFFKGKELVVVGGGDSAVEEGVYLTRFASKVTIVHRRDKLRAQSILQARAFDNEKVDFLWNKTVKEIHEENGKVGNVTLVDTVTGEESEFKTDGVFIYIGMLPLSKPFENLGITNEEGYIETNDRMETKVEGIFAAGDIREKSLRQIVTATGDGSIAAQSVQHYVEELQETLKTLK |
| 1070 | sp|O32274|TUAA\_BACSU | MSAEKSMNVSREFSVQQIHSFTLSEKTARYLAIKRVMDIWFALIGLAIALPMIAVFSILICLETPGPAIYTQERVGKGGKPFKLYKLRSMKIDAEKSGAVWAQKQDPRVTRIGAFIRRTRIDELPQLFNVLKGDMSMIGPRPERPVFTEKFQNEIPGFTQRLGSGERRLRYDAEGKADI |
| 1071 | sp|Q838D6|TYRDC\_ENTFA | MKNEKLAKGEMNLNALFIGDKAENGQLYKDLLIDLVDEHLGWRQNYMPQDMPVISSQERTSESYEKTVNHMKDVLNEISSRMRTHSVPWHTAGRYWGHMNSETLMPSLLAYNFAMLWNGNNVAYESSPATSQMEEEVGHEFAHLMSYKNGWGHIVADGSLANLEGLWYARNIKSLPFAMKEVKPELVAGKSDWELLNMPTKEIMDLLESAEDEIDEIKAHSARSGKHLQAIGKWLVPQTKHYSWLKAADIIGIGLDQVIPVPVDHNYRMDINELEKIVRGLAEEQIPVLGVVGVVGSTEEGAVDSIDKIIALRDELMKDGIYYYVHVDAAYGGYGRAIFLDEDNNFIPYEDLQDVHEEYGVFKEKKEHISREVYDAYKAIELAESVTIDPHKMGYIPYSAGGIVIQDIRMRDVISYFATYVFEKGADIPALLGAYILEGSKAGATAASVWAAHHVLPLNVAGYGKLIGASIEGSHHFYNFLNDLTFKVGDKEIEVHTLTHPDFNMVDYVFKEKGNDDLVAMNKLNHDVYDYASYVKGNIYNNEFITSHTDFAIPDYGNSPLKFVNSLGFSDEEWNRAGKVTVLRAAVMTPYMNDKEEFDVYAPKIQAALQEKLEQIYDVK |
| 1072 | sp|C1P602|YOAK\_ECOLI | MRIGIIFPVVIFITAVVFLAWFFIGGYAAPGA |
| 1073 | sp|C1P610|YPDK\_ECOLI | MKYFFMGISFMVIVWAGTFALMI |
| 1074 | sp|B7NGE7|YTFE\_ECOLU | MAYRDQPLGELALSIPRASALFRKYDMDYCCGGKQTLARAAARKELDVEVIEAELAKLAEQPIEKDWRSAPLAEIIDHIIVRYHDRHREQLPELILQATKVERVHADKPSVPKGLTKYLTMLHEELSSHMMKEEQILFPMIKQGMGSQAMGPISVMESEHDEAGELLEVIKHTTNNVTPPPEACTTWKAMYNGINELIDDLMEHISLENNVLFPRALAGE |
| 1075 | sp|P69505|YTFE\_SHIFL | MAYRDQPLGELALSIPRASALFRKYDMDYCCGGKQTLARAAARKELDVEVIEAELAKLAEQPIEKDWRSAPLAEIIDHIIVRYHDRHREQLPELILQATKVERVHADKPSVPKGLTKYLTMLHEELSSHMMKEEQILFPMIKQGMGSQAMGPISVMESEHDEAGELLEVIKHTTNNVTPPPEACTTWKAMYNGINELIDDLMDHISLENNVLFPRALAGE |
| 1076 | sp|A9N529|YTFE\_SALPB | MAYRDQPLGELALSIPRASALFRQYDMDYCCGGKQTLARAAARHDVDIDIIEAQLAQLAEQPIEKDWRAVPLADIIDHIVVRYHDRHREQLPELILQATKVERVHADKPNVPRGLTKYLTALHEELSSHMMKEEQILFPMIKQGMGRQATGPISVMESEHDEAGELVDVIKHVTQNVTPPPEACTTWKAMYNGINEMIDDLMEHISLENNVLFPRALAGE |
| 1077 | sp|C0Q6G8|YTFE\_SALPC | MAYRDQPLGELALSIPRASALFRQYDMDYCCGGKQTLARAAARHDVDIDIIEAQLAQLAEQPIEKDWRAVPLADIIDHIVVRYHDRHREQLPELILQATKVERVHADKPNVPRGLTKYLTALHEELSSHMMKEEQILFPMIKQGMGRQATGPISVMESEHDEAGELVDVIKHVTQNVTPPPEACTTWKAMYNGINEMIDDLMEHISLENNVLFPRALAGE |
| 1078 | sp|Q940Q3|ZTP29\_ARATH | MDSQMLVALGLSLVGGLSTSLGALFVVLSETPNMKMLGLLQGFASGLMLSISFLDLAHNAINSIGFFKANLWFFGGVIFFACITKFIPEPTLGPSTDGKRRKKNGDEGGKDMMKKHRKQVLYSGLITAIGISLHNFPEGMAVFLGSIKGMRVGVNLALAIALHNIPEGVAVALPIYFATESKWQAFKLATLSGLAEPLGVIIVAYLFPRSLSPEILEGLLGAVGGIMAFLTLHEMLPLAFDYAGQKQAVKAVFFGMACMSASLYFLELSLPETMSL |
| 1079 | sp|Q84K96|ZCD\_CROSA | MQVDPTKGIGLANTSLQFSNGRLHALCEYDLPYVVRLSPEDGDISTVGRIENNVSTKSTTAHPKTDPVTGETFSFSYGPIQPYVTYSRYDCDGKKSGPDVPIFSFKEPSFVHDFAITEHYAVFPDIQIVMKPAEIVRGRRMIGPDLEKVPRLGLLPRYATSDSEMRWFDVPGFNMVHVVNAWEEEGGEVVVIVAPNVSPIENAIDRFDLLHVSVEMARIELKSGSVSRTLLSAENLDFGVIHRGYSGRKSRYAYLGVGDPMPKIRGVVKVDFELAGRGECVVARREFGVGCFGGEPFFVPASSKKSGGEEDDGYVVSYLHDEGKGESSFVVMDARSPELEILAEVVLPRRVPYGFHGLFVTEAELLSQQ |
| 1080 | sp|O05385|RPOH\_BUCAI | MINKVQILSVTPPGNLDAYIRIANLWPMLSIEEEKKLTKRLRYNGDLDAAKTLILSHLRFVIHISRNYSGYGLLQSDLIQEGNIGLMKAVRRFNPEIGVRLVSFAVHWIKSEIHEYVLRNWRIVKVATTKSQRKLFFNLRKTKKRLGWFNEEEIQIVARELGVSSRDVREMESRMSAQDVAFNPSPEEHCDSKTNSSIQYLQDKTSNFANGVEQDNWEEHAANKLSSALLRLDERSRHIIHARWLDKNKKNTLQNIANNYGISAERVRQLEKNAMKKLKLAIEA |
| 1081 | sp|P50508|RPOH\_ENTCL | MTKEMQTLALAPVGNLESYIRAANTWPMLTAEEEKELAEKLHYQGDLEAAKTLILSHLRFVVHVARNYAGYGLPQADLIQEGNIGLMKAVRRFNPEVGVRLVSFAVHWIKAEIHEYVLRNWRIVKVATTKAQRKLFFNLRKTKQRLGWFNQDEVEMVARELGVSSKDVREMESRMAAQDMTFDMSADDDASDSQPMAPVLYLQDKTSNFADGIEEDNWEDQAANKLTFAMEGLDERSQDIIRARWLDEDNKSTLQELADRYGVSAERVRQLEKNAMKKLRAAIEA |
| 1082 | sp|Q6H7P8|SAP4\_ORYSJ | MEHKEAGCQQPEGPILCINNCGFFGSAATMNMCSKCHKEMIMKEEQAKLAASSIDSIVNGCDGGKEHIVAASGSTAVAVAQVEAKTLVVQPTDVAGTSEEVAVVPKVKEGPNRCATCRKRVGLTGFNCRCGNMYCALHRYSDKHECQFDYRTAARDAIAKANPVVKAEKLDKI |
| 1083 | sp|E9EM69|SHO1\_METRA | MEHSRPYGGRKRMSLGNILGDPFALATISISLLAWFITFISCVIAQVQANKNKGLPDKDNPDGNFPPFAWWAVVYSLFLIVGVVIVVASDAIQTYHVAVTGYLAGGMVLVTSGVNSLVYSKNGAREAAAAGFILLSMVVIVWIFYFGSTPSSTPRAFLDSFALSKDSGAMHNQAMNGYGGTGRPETSNSVQPPQMYTSAQLNGFENPSPVGGASQAPTAPTMPTYGNNTMQPNNKSNDEEVLPPIDYPYQAKAIYSYEANPSDANEISFSKHEILDVSDVSGRWWQARRRGTNEIGIAPSNYLILL |
| 1084 | sp|P51071|THS3\_VITVI | MASVEEIRNAQRAKGPATILAIGTATPDHCVYQSDYADYYFRVTKSEHMTELKKKFNRICDKSMIKKRYIHLTEEMLEEHPNIGAYMAPSLNIRQEIITVEVPKLGKEAALKALKEWGQPKSKITHLVFCTTSGVEMPGADYKLANLLGLETSVRRVMLYHQGCYAGGTVLRTAKDLAENNAGARVLVVCSEITVVTFRGPSEDALDSLVGQALFGDGSAAVIVGSDPDVSIERPLFQLVSAAQTFIPNSAGAIAGNLREVGLTFHLWPNVPTLISENVEKCLTQAFDPLGISDWNSLFWIAHPGGPAILDAVEAKLNLDKKKLEATRHVLSEYGNMSSACVLFILDEMRKKSHKGEKATTGEGLDWGVLFGFGPGLTIETVVLHSIPMVTN |
| 1085 | sp|Q05888|UDPK\_STRMU | MPMDLRDNKQSQKKWKNRTLTSSLEFALTGIFTAFKEERNMKKHAVSALLAVIAGLVFKVSVIEWLFLLLSIFLVITFEIVNSAIENVVDLASDYHFSMLAKNAKDMAAGAVLVISGFAALTGLIIFVPKIWFLLFH |
| 1086 | sp|Q0D5B9|SAP16\_ORYSJ | MGTPEFPNLGKHCSVGDCNQIDFLPFTCDRCDHVFCLQHRSYTSHQCPNANQKDVTVLICPLCAKGVRLNPNEDPNITWDTHVNSDCDPSNYQKVTKKKKCPVPGCRETLTFSNTIRCKDCTKEHCLKHRFGPDHKCPGPRKPESTFPFGNMLRRSQKAESCSNSNSSSTSSSWWSSSLLTAATSFKSSAEAGMQKLSTATTQAIQKAKDGISTSSSNSGDLVEQCVQCPARFSTVGALIEHCEKSHQSNSQSSRSRVTVDVCPKCSKAFRDPVLLVEHVERDHGGTSRA |
| 1087 | sp|E0SMM6|SBMC1\_DICD3 | MDYNVQHVDKRHAAGFHLVGPWEQTVPQGFEQLMKWVDEHAVQPLEWVAVYYGNPQETPPEKLEADTVVSVSADFHLPADGEGAITTEIAAGQYAIARVRVSNDDFGMSWQAFFAALLGDGKTIDPARACFEVYLNDGYSDGFWDIDMHIPVQ |
| 1088 | sp|A8AEL4|SBMC\_CITK8 | MDYEIRQAEKRNIAGFHMVGPWEKTVKQGFEQLMMWVDGNQVVPLEWIAVYYDNPDEVPAEKLRCDTVVSVPDNFTIPKNSEGVILTEIAGGQYATAVARVENHDFATPWYQFFNSLLQDNHYQIAAKPCFEVYLNNGTEDGYWDIEMYVPVQSK |
| 1089 | sp|A8XNJ6|SGK1\_CAEBR | MGSLYYSGSRMVRKDEVSCKLVMGDDKKTVVYAVRIGDGPIMQKVYEEYEKFFLTDVKDMVPEKFTIFPKKKLLQSKKTFFEKRRLWIQDVCQHLVDNQTKSEDVCRFFHIEAPDDDDNTVDLGPSERKTATANDFDFLTTIGKGSFGRVYQVRHKETKKIYAMKVLSKEHIRKKNEVKHVMAERNVLINNFKHPFLVSLHFSFQNKEKLYFVLDHLNGGELFSHLQREKHFTESRSRFYAAEIACALGYLHEKNIIYRDLKPENLLLDDKGYLVLTDFGLCKEDMQGSKTTSTFCGTPEYLAPEIILKKPYDKTVDWWCLGSVLYEMIFGLPPFYSKDHNEMYDKIINQPLRLKHTISVPCTELITGLLQKDRSKRLGHKNDFRDIQDHPFFLPVDWDKLLNRELKAPFIPKVKNAMDISNISKEFVEIQIDPASLAPQQLAVTHRDHDFENFTFVDTNRVLV |
| 1090 | sp|A0A0H3CCX2|SIGF\_CAUVN | MTDTETRLKALMLRGLDGDTAAYREGLALLGVRLRAYFMRRMSGAPGDVEDLVQETLLAVHLKRSTWDSAQSFTAWAHAVARYKLIDHWRRRKIRQTLPLEDHVDFLADDAPDPGVALELDRALASLPQRQRMLVSDVKLTGLSLAEAGARAGISEGAAKVALHRALKALAERMRRADG |
| 1091 | sp|A7F1F4|SHO1\_SCLS1 | MNGQSDYKGQRTAGMRGMSMDNILGDPFALATISIAMLAWFIAFIGSILATASHPPGDGFPNYSWFTIAYMLCCILGIFVVIASDTTQTYHVAIVGFLATGLVLTSSSVNSLIYSSNGAKEATAAGHILLSMVAIVWMFYFGSTPSAVPRAYLDSFALHKDHRVSSGRGMSTAYGNGYGHGYGNGRPDTSISSNVPPQMYTSAQLGGFETSSPVAGFPGGAAGAERNSSQPRFGASNLGPNGAMGSESTPGEVVQPTEYPYRAKAIYSYDANPDDANEISFAKHEILEVSDVSGRWWQAKKENGDTGIAPSNYLILL |
| 1092 | sp|C5DQY5|SHO1\_ZYGRC | MVMDKVPMPSRAKAKAQRKKLHINHSFSLNNLFSDPFALSSISITLLSWCIAIAGCIATASDTDNFPRFTWWGIAYQFLILFMVIIFYCYDMVDYYKNFIAGATAVSFVYNTNSATILVYGDGSRKAAASAGVILLSIVNLIWIFYYGSDNASPTSRWIDSFSLRGIRPSATQDASMRARRRNRNNLRSQRFTGDNFYPEHQPQNYMSSMALTGFENPDPAYYTGPNVPLDRNGSVAYSDNNMPGAFTQDMNANNQNNLNPNNFNQNNSNQNTFNQNTFMTETSNGNTDTTMGGTLELYSDAGEESFPYTAQTLYRYQADEDDAYEISFEQGEILKVSDIEGRWWKAKRSTGETGIIPSNYVKLIEDNIAM |
| 1093 | sp|D6PVB4|SHO1A\_HORWE | MDYNNNRYGGGGGGSKFNLGHIVGDPFSLATIAIATAGWLIAFVSSIIANIDQEYPNYSWWALAYMFFVILGVTFAVAANAVYTYHVAMVGFLAAGLVFTTSSVNSLIYWSDKAKQAAAAGFILLSMVSIVWIFYFGSQPTASHRQTIDSFALHKDHAPSRASRHMTQSYRPETTHSAQHPQMYNSSQLAGFETSSPVTGYPGGAAGATKRESASAFPPPGQGGNFSNNQQPNPITSQNNPQNQHQQPQDLTSPSTTQQPTEYPYRAKAIYSYEANPDDANEISFNKHEILEVSDVSGRWWQAKKENGETGIAPSNYLILL |
| 1094 | sp|P51069|THS3\_ARAHY | MVSVSGIRKVQRAEGPATVLAIGTANPPNCIDQSTYADYYFRVTNSEHMTDLKKKFQRICERTQIKNRHMYLTEEILKENPNMCAYKAPSLDAREDMMIREVPRVGKEAATKAIKEWGQPMSKITHLIFCTTSGVALPGVDYELIVLLGLDPCVKRYMMYHQGCFAGGTVLRLAKDLAENNKDARVLIVCSENTAVTFRGPSETDMDSLVGQALFADGAAAIIIGSDPVPEVEKPIFELVSTDQKLVPGSHGAIGGLLREVGLTFYLNKSVPDIISQNINDALNKAFDPLGISDYNSIFWIAHPGGRAILDQVEQKVNLKPEKMKATRDVLSNYGNMSSACVFFIMDLMRKRSLEEGLKTTGEGLDWGVLFGFGPGLTIETVVLRSVAI |
| 1095 | sp|B1LFB6|SAFA\_ECOSM | MHATTVKNKIMQRDNYKEIMSVIVVVLLLTLTLIAIFSAIDQQGISEMGRMARDLTHFIINSLQD |
| 1096 | sp|Q6GPN6|SGK1A\_XENLA | MTVKTETAAGASTLTYSKMRGMVALLIAFMKQRRMGLNDFIQKIATNSSYACKPSEVQSILNISPPQEPELLNENSSPPPSPSQQINLGPSSNPHAKPSDFQFLKIIGKGSFGKVLLARHQADEKFYAVKVLQKKAILKKKEEKHIMSERNVLLKNVKHPFLVGLHFSFQTTSRLYFILDYINGGELFYHLQRERCFLEPRARFYAAEIASALGYLHSLNIVYRDLKPENILLDSQGHIVLTDFGLCKENIEPNGTTSTFCGTPEYLAPEVLHKQPYDRTVDWWCLGAVLYEMLYGLPPFYSRNTAEMYDNILNKPLQLKPNITNSARNLLEGLLQKDRTKRIGAKNDFMEIKNHIFFSPINWDDLINKKITPPFNPNVSGPSDLQHFDPEFTEEPVPNSIGQSPDSILITASIKEAAEAFMGFSYAPPMESYL |
| 1097 | sp|E7QE10|SHO1\_YEASZ | MSISSKIRPTPRKPSRMATDHSFKMKNFYADPFAISSISLAIVSWVIAIGGSISSASTNESFPRFTWWGIVYQFLIICSLMLFYCFDLVDHYRIFITTSIAVAFVYNTNSATNLVYADGPKKAAASAGVILLSIINLIWILYYGGDNASPTNRWIDSFSIKGIRPSPLENSLHRARRRGNRNTTPYQNNVYNDAIRDSGYATQFDGYPQQQPSHTNYVSSTALAGFENTQPNTSEAVNLHLNTLQQRINSASNAKETNDNSNNQTNTNIGNTFDTDFSNGNTETTMGDTLGLYSDIGDDNFIYKAKALYPYDADDDDAYEISFEQNEILQVSDIEGRWWKARRANGETGIIPSNYVQLIDGPEEMHR |
| 1098 | sp|E3RIP0|SHO1\_PYRTT | MPAYGSVGSPSLRKMENGYGQRSQGFSLGRIIGDPFALATISIGILAWIIAFVSSIISAIHGGFPNFAWWTLVFMFFCIAGVTITVASDAERTYHVAIVGFLSAGLVFTTSSVNSLVYSPVAPFEAAAAGYILLSMITIVWVFYYGSQPQASHRTFVDSYALHKEGPGSRSSRPISNGYTNRPETQNASIPPQMYTSAQLNGFETSSPVSGYPGGPAGANGRNSSAPQFGGMGNSQTPTHDEQPQEISIEYPYRAKAIYSYEANPDDANEISFQKHDILEVSDVSGRWWQAKKPNGETGIAPSNYLILL |
| 1099 | sp|C6HFQ7|SHO1\_AJECH | MVTYSANYSTSFQKRSPFAVHNRRSNMARMDFNNIVGDPFALITISTSLIAWLLSFATCVISDIQGAFPNFAWWAVGYMLCAIIGISLVLASQTSHVYGVAIVGYLAAGLTFTTLAVNSLIYDDQASKQAGAAGFILQSMVTIVWIFYFGSSSQTSSRPYLDSMGAGKEHPSYRNSKPLSTNYGARPETVVSGNQPPQMYTSAQLNGFETSSPVSGYPPTAANGAENGTQNRFVGPAIGSQSNLGGGSTLGADHPSTPNEVSQPTVYPYRAKAIYSYEANPDDANEISFSKHEILDVSDVSGRWWQAKKASGETGIAPSNYLILI |
| 1100 | sp|O04132|SRC1\_SOYBN | MSGIIHKIEETLHVGGHKKEEHKGEHHGEHKGEHKGEHHGEHKGEHKGEQHHGEHKEGLVDKIKDKIHGDGHDKGEKKKKKDKKKKEHGHDHHGHSSSSDSD |
| 1101 | sp|Q9STU1|SRO4\_ARATH | MDYSKTEETPINEEQGSTNSSESRSNEELFSDCDQQHSSIANEFGLTELPKDDKVYELIYRHCQSKLTSHLSNQFEIVSILKNGFQTPLGQAKLKAFQIYAESVAKKSGSCCGNKAAVAEAARVKYGCCGVEKEELKAILMYGFSNNALCLSPDNAPLQCMIDPSSSCNEDGISFLLFSRIIMGKSEVVCSTSQSYPSSMEFDSGVDSLTSPNKYIIWSTHMNTHVLPEFVVCIKTPSILKRKNPKSPWISFPVLINSISKFLNQSQIRLIHKHYKEHQDRRISRCELIQRLRSITGDSLLVQIIKSVGQKVHKDT |
| 1102 | sp|Q86TM6|SYVN1\_HUMAN | MFRTAVMMAASLALTGAVVAHAYYLKHQFYPTVVYLTKSSPSMAVLYIQAFVLVFLLGKVMGKVFFGQLRAAEMEHLLERSWYAVTETCLAFTVFRDDFSPRFVALFTLLLFLKCFHWLAEDRVDFMERSPNISWLFHCRIVSLMFLLGILDFLFVSHAYHSILTRGASVQLVFGFEYAILMTMVLTIFIKYVLHSVDLQSENPWDNKAVYMLYTELFTGFIKVLLYMAFMTIMIKVHTFPLFAIRPMYLAMRQFKKAVTDAIMSRRAIRNMNTLYPDATPEELQAMDNVCIICREEMVTGAKRLPCNHIFHTSCLRSWFQRQQTCPTCRMDVLRASLPAQSPPPPEPADQGPPPAPHPPPLLPQPPNFPQGLLPPFPPGMFPLWPPMGPFPPVPPPPSSGEAVAPPSTSAAALSRPSGAATTTAAGTSATAASATASGPGSGSAPEAGPAPGFPFPPPWMGMPLPPPFAFPPMPVPPAGFAGLTPEELRALEGHERQHLEARLQSLRNIHTLLDAAMLQINQYLTVLASLGPPRPATSVNSTEETATTVVAAASSTSIPSSEATTPTPGASPPAPEMERPPAPESVGTEEMPEDGEPDAAELRRRRLQKLESPVAH |
| 1103 | sp|A6ZKY8|TCM62\_YEAS7 | MLRNCLRKLGNHQTKCSVKTLHTPIYRTKNLQVLRDTLSGIKLLEKIITSSSYNKTLIYEPKYKSKPQVVSSHDTMRLHNVMRELLDSLQVDEATNTRLQSNRPRKLGRVGLQLFMDCIQDNLTATSTSLTCSLLEHYFKYPEKEVTNGIKAGLRYIRDFLAKNKIIVKSQNDVDALVEQLTMSSSDSQSIKRVLKAINYELFSDDIVRVINGNKTYDEVDVSKGWKYPAGILDSNEAYLRSLELPTKKLVSIDKDMLVLMYDGTLRDANKILPTITYARKLRKSILLIVNGDCTGDALTSVTINNNRNKRENNESRIVVLKYSKKANNDLAPQENLDFIKFLRLPCGYDSIYSPEYSPLVPSKMCADKYYGSIESIKATTGEAFLYNSIDAEAIPNKVPKSFLQNTVTLSIGGHNEIEIDRRRNAIDNCLNNVLCHGLAKGFIPGYGISLLKAIPGLNELKANEPNFMTKVGINAVLSAVILPSEVAFKNAYGYNYYEINSLIAGAINEKSFPMAKFSPNSEPVNTVKDGNLEPWSKMDSCLAGVETFIELLTSCNTIITCVYKKPERHKA |
| 1104 | sp|Q0D6F4|TPP10\_ORYSJ | MGSCGNGRSSEYDDPASLEKMEELVLPLKLMPLHTNGRLYDMRLSSPTATCVINSSSGSFDPIYRAWTKKYPSALNAFDHIVAYGKGKKIALFLDYDGTLSPIVDEPDNAIMSDQMREVVRNAALHLPTAIISGRSRDKVFDFVKLTELYYAGSHGMDIMGPVGEHDSVTNHRSSINSNRKQGKGVKIFQAGTEFLPMINEVFRLLIDKTKAIDGVKIENNKFCVSVHYRNVEEKNWQLVSQCTNDVLKVYPRLRLTHGRKVLEIRPVIDWNKGKAVEFLLDSLDLASCKNVLPIYIGDDCTDEDAFKVLRDDKRGFGILVSSVPKDSHALYSLIDPSEVMEFLKRLVMWKNEEASHNK |
| 1105 | sp|B6I2C2|YTFE\_ECOSE | MAYRDQPLGELALSIPRASALFRKYDMDYCCGGKQTLARAAARKELDVEVIEAELAKLAEQPIEKDWRSAPLAEIIDHIIVRYHDRHREQLPELILQATKVERVHADKPSVPKGLTKYLTMLHEELSSHMMKEEQILFPMIKQGMGSQAMGPISVMESEHDEAGELLEVIKHTTNNVTPPPEACTTWKAMYNGINELIDDLMDHISLENNVLFPRALAGE |
| 1106 | sp|A1AJC0|YTFE\_ECOK1 | MAYRDQPLGELALSIPRASALFRKYDMDYCCGGKQTLARAAARKELDVDVIEAELAKLAEQPIEKDWRSAPLAEIIDHIIVRYHDRHREQLPELILQATKVERVHADKPSVPKGLTKYLTMLHEELSSHMMKEEQILFPMIKQGMGSQAMGPISVMESEHDEAGELLEVIKHTTNNVTPPPEACTTWKAMYNGINELIDDLMEHISLENNVLFPRALAGE |
| 1107 | sp|B0G168|SRSA\_DICDI | MIAKVFKSITPESYILLVNAGLISAYGVRIIFQSVKNDEGKVDEKAHIGIGHFFKKRGAQLVDGKNLTDILKEKKKKKKKKKKINISNKLIIFKISRQLYSKLKLK |
| 1108 | sp|O94629|SRO1\_SCHPO | MFSILKQGVISKSLLAATSLKATASRFSFSTSVASRVDGTKNGWSFTASNVADQTTDIGINSESAMSCNDQEQPLSFYVQTVRDDLNSPNWGAEQRKGAFDWEVSA |
| 1109 | sp|Q9FJJ3|SRO5\_ARATH | MDYVRTQVEAVFDDSEQDGSTISESGSCDSSSDRSFADELGLMELLEGDKAHDLIYRNCKSGLGDQCQILSVLRNGFRNVGSRAKLKTFQVFQEAVQMKHGGDGGAKVKYGWCSVSKHELKTIFEYGFSEPLRNDGSFGRGLYLSPDNSPLDCLKDSASESEDGMRFLLLCRVLLGKSEIVPQGSTRSCPSSPEFDSGVDDLVSTKKYIVWSTHMNTHVLPEFLVCIKAPFNLTRSPKRLRSPWMAFPVLIKALSKFLPPSQILVIQKHYKDQQNRRITRSELIQRVRSITGDKLLVHIIKACGHKVQH |
| 1110 | sp|Q9SU50|TRE1\_ARATH | MKSYKLNNPNLLISTHTHNKLFLSSSPFNLLFSFPSFIYLKQQRSLFFFFFFFLCFSFTTSMLDSDTDTDSGPVVATTKLVTFLQRVQHTALRSYPKKQTPDPKSYIDLSLKRPYSLSTIESAFDDLTSESHDQPVPVETLEKFVKEYFDGAGEDLLHHEPVDFVSDPSGFLSNVENEEVREWAREVHGLWRNLSCRVSDSVRESADRHTLLPLPEPVIIPGSRFREVYYWDSYWVIKGLMTSQMFTTAKGLVTNLMSLVETYGYALNGARAYYTNRSQPPLLSSMVYEIYNVTKDEELVRKAIPLLLKEYEFWNSGKHKVVIRDANGYDHVLSRYYAMWNKPRPESSVFDEESASGFSTMLEKQRFHRDIATAAESGCDFSTRWMRDPPNFTTMATTSVVPVDLNVFLLKMELDIAFMMKVSGDQNGSDRFVKASKAREKAFQTVFWNEKAGQWLDYWLSSSGEESETWKAENQNTNVFASNFAPIWINSINSDENLVKKVVTALKNSGLIAPAGILTSLTNSGQQWDSPNGWAPQQEMIVTGLGRSSVKEAKEMAEDIARRWIKSNYLVYKKSGTIHEKLKVTELGEYGGGGEYMPQTGFGWSNGVILAFLEEYGWPSHLSIEA |
| 1111 | sp|Q46948|YAJL\_ECOLI | MSASALVCLAPGSEETEAVTTIDLLVRGGIKVTTASVASDGNLAITCSRGVKLLADAPLVEVADGEYDVIVLPGGIKGAECFRDSTLLVETVKQFHRSGRIVAAICAAPATVLVPHDIFPIGNMTGFPTLKDKIPAEQWLDKRVVWDARVKLLTSQGPGTAIDFGLKIIDLLVGREKAHEVASQLVMAAGIYNYYE |
| 1112 | sp|O07539|YHAX\_BACSU | MSKQLLALNIDGALLRSNGKIHQATKDAIEYVKKKGIYVTLVTNRHFRSAQKIAKSLKLDAKLITHSGAYIAEKIDAPFFEKRISDDHTFNIVQVLESYQCNIRLLHEKYSIGNKKKVNSNLLGKALIHPSDPIFYPVQFVESLSDLLMDEPVSAPVIEVYTEHDIQHDITETITKAFPAVDVIRVNDEKLNIVPKGVSKEAGLALVASELGLSMDDVVAIGHQYDDLPMIELAGLGVAMGNAVPEIKRKADWVTRSNDEQGVAYMMKEYFRMQQRKGFLDKFHMKRV |
| 1113 | sp|Q6D142|YTFE\_PECAS | MAYRDQSLGELAIAIPRATKLFRELNLDFCCGGKQTLSRAAGKKDLNIDELEAQLEKLAAQPSDARDWREAPLADIIAYIIPRFHDRHREQLPELILMAKKVERVHHDKADCPHGLANQLTAIYNELSQHMMKEERILFPMIGQGMGANAAAPISVMEHEHDDAGRDVEVVKELTNGVVPPEGACNTWRALYSGINEFITDLMEHIHLENNLLFPRALRGE |
| 1114 | sp|C4ZR85|YTFE\_ECOBW | MAYRDQPLGELALSIPRASALFRKYDMDYCCGGKQTLARAAARKELDVEVIEAELAKLAEQPIEKDWRSAPLAEIIDHIIVRYHDRHREQLPELILQATKVERVHADKPSVPKGLTKYLTMLHEELSSHMMKEEQILFPMIKQGMGSQAMGPISVMESEHDEAGELLEVIKHTTNNVTPPPEACTTWKAMYNGINELIDDLMDHISLENNVLFPRALAGE |
| 1115 | sp|Q0T9H5|YTFE\_ECOL5 | MAYRDQPLGELALSIPRASALFRKYDMDYCCGGKQTLARAAARKELDVEVIEAELAKLAEQPIEKDWRSAPLAEIIDHIIVRYHDRHREQLPELILQATKVERVHADKPSVPKGLTKYLTMLHEELSSHMMKEEQILFPMIKQGMGSQAMGPISVMESEHDEAGELLEVIKHTTNNVTPPPEACTTWKAMYNGINELIDDLMEHISLENNVLFPRALAGE |
| 1116 | sp|B9DGY1|AB1K7\_ARATH | MAALLASQSCCYGGETARVTKAIGFSSSLENHFTGEATQCYGSKSKRFRIEMRQSELPSKVGINGRSVKMVPASEVVKRKDGVNGSAGKGVNGASLVSSRNINGAASTLVKAPKKTTESYLPPPVEGVRVLPSDEGFSWADENYSSLQRSIDVWSFVISLRIRILFDNSKWAYVGGFTEEKQKSRRRETASWLRESVLQLGPTFIKLGQLSSTRSDLFPREFVDELSKLQDRVPAFSPEKAKRFIEAELGAPISVMYKEFEEQPIAAASLGQVHRAVLHNGEKVVVKVQRPGLKKLFDIDLRNLKLIAEYFQKSESFGTNDWVGIYEECALILYQEIDYINEAKNADRFRRDFRNINWVRVPLVYWDYSAMKVLTLEYVPGVKINNLDALAARGFNRSRIASRAIEAYLIQILKTGFFHADPHPGNLAIDVDESIIYYDFGMMGEIKTFTRKRLLDLFYSVYEKDAKKVMQNLIDLEALQPTGDLSSVRRSVQFFLDNLLSQSPDQQQTLAAIGEDLFAISQDQPFRFPSTFTFVIRAFSTLEGIGYILDPEFSFVKVAAPYAQELLDLKQRQRSGTQLVQEIRKQADDARSSTLSMPYRVQRIEEFVKELDSGDLKLRVRVLESERAARKATILQMATMYTVLGGTLLNIGVTFSNQGSQLVANGSFIGAGIFMLLVLRSMQRVNKLDKFEKMI |
| 1117 | sp|Q8W033|AL3I1\_ARATH | MTKLLEINHIQTLCFAKGFSPARLNVATSPFRISRRGGGGYCSNACIPYRLKFTCYATLSAVVKEQASDFSGKEAALLVDELRSNFNSGRTKSYEWRISQLQNIARMIDEKEKCITEALYQDLSKPELEAFLAEISNTKSSCMLAIKELKNWMAPETVKTSVTTFPSSAQIVSEPLGVVLVISAWNFPFLLSVEPVIGAIAAGNAVVLKPSEIAPAASSLLAKLFSEYLDNTTIRVIEGGVPETTALLDQKWDKIFFTGGARVARIIMAAAARNLTPVVLELGGKCPALVDSDVNLQVAARRIIAGKWACNSGQACIGVDYVITTKDFASKLIDALKTELETFFGQNALESKDLSRIVNSFHFKRLESMLKENGVANKIVHGGRITEDKLKISPTILLDVPEASSMMQEEIFGPLLPIITVQKIEDGFQVIRSKPKPLAAYLFTNNKELEKQFVQDVSAGGITINDTVLHVTVKDLPFGGVGESGIGAYHGKFSYETFSHKKGVLYRSFSGDADLRYPPYTPKKKMVLKALLSSNIFAAILAFFGFSKDS |
| 1118 | sp|Q9SYT0|ANXD1\_ARATH | MATLKVSDSVPAPSDDAEQLRTAFEGWGTNEDLIISILAHRSAEQRKVIRQAYHETYGEDLLKTLDKELSNDFERAILLWTLEPGERDALLANEATKRWTSSNQVLMEVACTRTSTQLLHARQAYHARYKKSLEEDVAHHTTGDFRKLLVSLVTSYRYEGDEVNMTLAKQEAKLVHEKIKDKHYNDEDVIRILSTRSKAQINATFNRYQDDHGEEILKSLEEGDDDDKFLALLRSTIQCLTRPELYFVDVLRSAINKTGTDEGALTRIVTTRAEIDLKVIGEEYQRRNSIPLEKAITKDTRGDYEKMLVALLGEDDA |
| 1119 | sp|Q8VY98|ATI2\_ARATH | MADKDEAATRGNDWEVVSLTASAYAAAPGPKPVVDSKDDDHKEVTPCYEAETSHPLYMSRHFVFPPTGQLENTSDLTEASLTGSHCKEGSDLSLKGLDLSDDFGGLEFSEDKGKKEENIYTTAMSSLDDERAIGGSHVYEPVEEPTEPVSPSDVTLDLNPIKDDEVANSPPSEEAWWKRSVASLIAQAKETNTVWSICIAAAVMGIVILGQHWQQERWQILQQKWESSIGNEKAGRLMGPISRLKQAFVGGQRRDSFIRASAQNDR |
| 1120 | sp|P14217|ARS\_CHLRE | MGALAVFAVACLAAVASVAHAADTKKPNFVVIFTDDQDAIQNSTHPHYMPSLHKYIRYPGVELSQYFVTTPVCCPSRTNLXRGQFAHNTNFTSVLPPYGGWAKWKGLGIDQSYLPLWLKDQGYNTYYVGKFLVDYSVSNYQQVPRAGTISMPXVTPYTFDYNTRLQRNGATPNIYPGEYSTDVIRDKGVAQIKSAVAAGKPFYAQISPIAPHTSTQISTNPATGVTRSYFFPPIPAPPHWQLFSDANLPGGSXNKNLYEVDVSDKPAWIRALPLAQQNNRTYQEEIYRLRLRSLGPDELIEQVVKTLDEAGVLDNTYIIYSADNGYHVGAHRFGAGKTTGYEEDLRVPFLIRGPGIKASKSDKPQNSKVGLHVDFAPTILSLAGASHLLGDKGLDGTPLGLYANDDGTLPSDYPRPEQHRQQFQGEFWGGWSDELLQNLRSQPNNTWKVVRTYDESSKQGWKLIAQCTNERELYDLRKDPGELYNIYDKAKPAVRSRLEGLLAVLAVCKGESCSNPWKILHPDGTVKNFTQALNSKYDRIYNAIRPFTYKRCLPYLDWDNEDSQFKTQIRGANPAAGVGHHRLLTAASERAIATRRRAQAAVSAELADGPAVFQAKVEEKSVPVPQDILKADVEKWFAFNNAEYYLA |
| 1121 | sp|Q9FFI2|ATG5\_ARATH | MAKEAVKYVWEGAIPLQIHLHKSDVASHPAPPPALVLAPRIGYLPLLIPLIKPYFKDSLPPGEDSIWFDYKGFPLKWYIPTGVLFDLLCAEPERPWNLTIHFRGYPCNILIPCEGEDSVKWNFVNSLKEAQYIINGNCKNVMNMSQSDQEDLWTSVMNGDLDAYTRLSPKLKMGTVEDEFSRKTSLSSPQSQQVVPETEVAGQVKTARIPVRLYVRSLNKDFENLEDVPEIDTWDDISYLNRPVEFLKEEGKCFTLRDAIKSLLPEFMGDRAQTSGEERSIDDTEEADGSREMGEIKLVRIQGIEMKLEIPFSWVVNNLMNPEFYLHISVLVKAPQR |
| 1122 | sp|Q9CFF3|CLPB\_LACLA | MDIEKMTTTMQEALGSAQQIAQVRHHQVIEVPHLWRIFVQPNSFGANFYKDLGIDLDDYTNLIEKEIDKINSVEGSNITYGQNLSPDLFQIFTEADKIAQKMGDEYLSTEIILLALFELKQNPLTSYLVSHGLTKAKAQAAIEKLRGGDKVTSQNAEETYKALEKYGVDLVAQVKSGKQDPVIGRDEEIRDVIRVLSRKTKNNPVLIGEPGVGKTAIVEGLAQRIVRKDVPENLKDKTIFSLDMGALIAGAKYRGEFEERLKAVLNEVKKSDGQIILFIDELHTIVGAGKTEGSMDAGNLLKPMLARGELHLIGATTLDEYRKYMETDKALERRFQKVLVTEPTVEDTISILRGLKERFEIHHGVTIHDNALVAAATLSNRYITDRFLPDKAIDLVDEASATIRVEMNSLPTELDQANRRLMQLEIEEAALKKERDDASKKRLEIIRGEIAELREENNQLKAQWEAEKKEVGNISEKRNELEHARHELEEAQNEGNLEKAAALRYGKIPEIEKELKAIEEKAKSDDLSLVQESVTEEQITEVVGRMTGIPITKLVEGEREKLLHLPETLHQRVVGQDEAVEAVSDAIIRARAGIQDPNRPLGSFLFLGPTGVGKTELAKALAENLFDSEEHMVRIDMSEYMEKHSVSRLVGAPPGYVGYDEGGQLTEAVRRNPYTIILLDEIEKAHPDVFNILLQVLDDGRLTDSKGVLVDFKNTVLIMTSNVGSQYLLDNVGENGEISEETTENVMSQLRAHFKPEFLNRIDDTILFKPLALEDIKNIIVKMTSQLSHRLEEMDVQLELSEEVKVWIAENAYEPAYGARPLKRYLTKVIENPLAKLIIGGKIPPKSKVIVTLVENKIDFDIQTIAE |
| 1123 | sp|P0A9Y2|CSPA\_SALTY | MSGKMTGIVKWFNADKGFGFITPDDGSKDVFVHFSAIQNDGYKSLDEGQKVSFTIESGAKGPAAGNVTSL |
| 1124 | sp|P0C0F1|CSPA\_STRP1 | MAQGTVKWFNAEKGFGFISTENGQDVFAHFSAIQTNGFKTLEEGQKVAFDVEEGQRGPQAVNITKLA |
| 1125 | sp|Q81IT9|CSHA\_BACCR | MTTFRELGLSDSLLQSVESMGFEEATPIQAETIPHALQGKDIIGQAQTGTGKTAAFGLPLLDKVDTHKESVQGIVIAPTRELAIQVGEELYKIGKHKRVRILPIYGGQDINRQIRALKKHPHIIVGTPGRILDHINRKTLRLQNVETVVLDEADEMLNMGFIEDIEAILTDVPETHQTLLFSATMPDPIRRIAERFMTEPQHIKVKAKEVTMPNIQQFYLEVQEKKKFDVLTRLLDIQSPELAIVFGRTKRRVDELSEALNLRGYAAEGIHGDLTQAKRMSVLRKFKEGSIEVLVATDVAARGLDISGVTHVYNFDIPQDPESYVHRIGRTGRAGKKGIAMLFVTPRESGQLKNIERTTKRKMDRMDAPTLDEALEGQQRLIAEKLQSTIENENLAYYKRIAEEMLEENDSVTVVAAALKMMTKEPDTTPIALTSEPPVVSRGGGSKKRGGNGGGYRDGNRNRSRDGRGGGDGRNRDRNRDGRNRDGNRDRNRDGNRDRNRDGGSRGRRGEGQGRPGSSNGRGERKHHSRPQA |
| 1126 | sp|P0AE88|CPXR\_ECOLI | MNKILLVDDDRELTSLLKELLEMEGFNVIVAHDGEQALDLLDDSIDLLLLDVMMPKKNGIDTLKALRQTHQTPVIMLTARGSELDRVLGLELGADDYLPKPFNDRELVARIRAILRRSHWSEQQQNNDNGSPTLEVDALVLNPGRQEASFDGQTLELTGTEFTLLYLLAQHLGQVVSREHLSQEVLGKRLTPFDRAIDMHISNLRRKLPDRKDGHPWFKTLRGRGYLMVSAS |
| 1127 | sp|P27370|CYSW\_SYNE7 | MVAFVKARRQIAGVKESKSLLPLALIGISLLYVGLIIIIPAANVAVQAFSEGLSGFIKNLGDRNLQEAIRLTLLMGVISVPLNTLFGLAAAFAIARKQFPGKSLLLSVIDLPFSISPVVAGLMIVLLYGRNGWLGPLLESNDIKIIFAWPGMALATIFVSMPFVAREVIPNLEEIGTDAEEAASTLGANGWQTFWRVTLPSIKWSMLYGVVLTTARALGEFGAVSVVSGSITGKTQTLPLFVEEAYKQYQTTLSYTAALLLGGISLVTLVLKALLEARTGRQSRIH |
| 1128 | sp|P27369|CYSR\_SYNE7 | MVREPASTLLPPTSPATPAPHRLLIGRRGMVPTGANVIWKIQSGLVRSSTWGEEGDMISLGLWGPGDLIGRPLSCLDPYELECLTAVEVVAVSDPALESHESLVRSLRYTERLLSITRLRRAEAKLASLLGWIGERFGQPGATGWEIDLRRIPLTHQVIAELSGSTRVTTTRLLGEFRQAGRIHRRDRALIVRYPETLYPPARLSA |
| 1129 | sp|Q49V31|CTSR\_STAS1 | MHNMSDIIEQYIKKLFEDTNEDVVEIRRTNIAQRFDCVPSQLNYVIKTRFTNEHGYEIESKRGGGGYIRITKIENKDETGYINHLLQLVGPSISQQQAYYIVDGLLDKSYINEREAKMIYAVIDRETLKMDILSRDIIRANIIKRLLHVINYY |
| 1130 | sp|Q2FXZ3|DNAJ\_STAA8 | MAKRDYYEVLGISKDASKDEIKKAYRKLSKKYHPDINKEEGADEKFKEISEAYEVLSDDNKRASYDQFGHDGPQGFGGQGFNGSDFGGFSGFGGGGFEDIFSSFFGGGRQRDPNAPQKGDDLQYTMTLTFEEAVFGTTKEISIRKDVTCETCHGDGAKPGTSKKTCSYCNGAGHVAVEQNTILGRVRTEQVCPKCNGSGQEFEEACPTCHGKGTENKTVKLEVKVPEGVDNEQQIRLAGEGSPGVNGGPAGDLYVVFRVKPSETFKRDGDDIYYKLNVSFPQAALGDEIKIPTLNNEVMLTIPAGTQTGKQFRLKEKGIKNVHGYGYGDLYVDIKVVTPTKLTDRQKELMKEFAQLNGEEINEQPSNFKDRAKRFFKGE |
| 1131 | sp|P57453|DEAD\_BUCAI | MTHIESTFSFLGLNPFIIQSLNEMGYVKPSPIQASCIPLLLEGRDVLGMAQTGSGKTAAFSLPLLHNLNINLKAPQILVLAPTRELAVQVAEAFSDFSKYMIGIHVLPLYGGQRYELQLRALRQGPQIVVGTPGRLLDHLKRGTLNLSNLHGLVLDEADEMLRMGFIEDVETIMAQIPKEHQTALFSATMPEAIRRISKRFMRNPKEIKIQSNITTRPDIKQSYWMVYGRKTDALIRFLEAEDFSATIIFVRTKNATLEVSEALERNGYNSAALNGDMNQALREQTLERLKNGRLDILIATDVAARGLDVDRISFVINYDIPMDSESYVHRIGRTGRAGRAGRALLFVENRERRLLRNIERTMKQSIPEVQLPKVELLCQRRLEQFAKKVQQQLESRDLDEYSALLDKLYSTDDLDIKTLAAALLKMAQGERPLIIKPDVIKRQSRDLLFQDDRRREDNRNSRTRRDRRDINKDAELYRIEVGRNDGVEVRHIVGAIANEGNINSRNIGNIKLFSSYSTIELPKGMSKDLLQTFNRTRILNKPINMKLLRDSRHYENKTTHRSIFNKDKNSNRRVSDGSFNKSNSPKKTEFKSSFFRRRNV |
| 1132 | sp|Q7V7N7|DNAK1\_PROMM | MGRIVGIDLGTTNSVVAVLEAGRPQVIANAEGSRTTPSVVGYSKEAELLVGQLARRQLVLNPRNTFANLKRFVGRGWDEMDDSSLSVPYTVRANEQGNVRVSCQVTEREYAPEELVASIIRKLVDDAATYLGEPVEAAVVTVPAYFNDAQRQATRDAGRLAGITVERILNEPTAAALAYGFDRSAARRVLVFDLGGGTFDVSLMRVANGVFDVKATCGDTQLGGNDFDQRIVDWLAEAFKTKHGLDLRRDRQALQRLIEAAEKAKQELSGVLSTPISLPFIATGPDGPLHIETSLDRPTFEGLCPDLLDRLLNPVQTALRDSGWSADDVDDVVLVGGGTRMPMVQQLLRTLVASEPCQSVNPDEVVAVGGAVQAGILTGELRDLMLNDVTPLSLGLETVGGLMKVLIPRNTPIPVRQSDVFSTSEANQSSVEIHVWQGERQLAADNKSLGRFRLSGIPPAPRGVPQVQVAFDIDANGLLQVSATDRTTGRKQSVNIQGGSTLNEEELQALLAEAEAKAGEDRRRRASIDRRNSALTLVGQAERRLRDAALELGPYGAERQQRAVETAMRDVQDLLEQNDLQELELAVASLQEALFGLNRRISSERRTDANPLQGIRNTLGSLKDELFSDDDWDEDPWNSPARSSDGRRIYRGRELNPWDDDFYR |
| 1133 | sp|O33528|DNAK\_RHILE | MAKVIGIDLGTTNSCVAVMDGKDAKVIENAEGARTTPSMVAFSDDGERLVGQPAKRQAVTNPTNTLFAVKRLIGRRYEDPTVEKDKHLVPFTIVKGDNGDAWVEANGKGYSPAQISAMILQKMKETAESYLGEKVEKAVITVPAYFNDARPGQPRMPAASLGLEVLRIINEPTAAALAYGLDKKEGKTIAVYDLGGGTFDISILEIGDGVFEVKSTNGDTFLGGEDFDMRLVEYLVAEFKRDNGIDLKNDKLALQRLKEAAEKAKIELSSSQQTEINLPFITADASGPKHLTLKLTRAKLESLVDDLVQRTIAPCKAALKDAGVTAAEIDEVVLVGGMSRMPKVQEVVKQLFGKEPHKGVNPDEVVALGAAIQAGVLQGDVKDVLLLDVTPLSLGIETLGGVFTRLIERNTTIPTKKSQTFSTAEDNQQAVTIRVSQGEREMAADNKLLGQFDLVCLPPSPRGMPQIEVTFDIDANGIVQVSAKDKGTGKEQQIRIQASGGLSDADIEKMVKDAEAHATEDKKRREAVEARNQAESLIHSSEKSLKDYGDKVSEADRTAISDAIAALKTASEASEPDADDIKAKTQTLMEVSMKLGQAIYEAQQAESGAAGMPPPKAGDNVVDADYEEIKDDDRKKSA |
| 1134 | sp|Q57TP3|DNAK\_SALCH | MGKIIGIDLGTTNSCVAIMDGTQARVLENAEGDRTTPSIIAYTQDGETLVGQPAKRQAVTNPQNTLFAIKRLIGRRFQDEEVQRDVSIMPYKIIGADNGDAWLDVKGQKMAPPQISAEVLKKMKKTAEDYLGEPVTEAVITVPAYFNDAQRQATKDAGRIAGLEVKRIINEPTAAALAYGLDKEVGNRTIAVYDLGGGTFDISIIEIDEVDGEKTFEVLATNGDTHLGGEDFDTRLINYLVDEFKKDQGIDLRNDPLAMQRLKEAAEKAKIELSSAQQTDVNLPYITADATGPKHMNIKVTRAKLESLVEDLVNRSIEPLKVALQDAGLSVSDINDVILVGGQTRMPMVQKKVAEFFGKEPRKDVNPDEAVAIGAAVQGGVLTGDVKDVLLLDVTPLSLGIETMGGVMTPLITKNTTIPTKHSQVFSTAEDNQSAVTIHVLQGERKRASDNKSLGQFNLDGINPAPRGMPQIEVTFDIDADGILHVSAKDKNSGKEQKITIKASSGLNEEEIQKMVRDAEANAESDRKFEELVQTRNQGDHLLHSTRKQVEEAGDKLPADDKTAIESALNALETALKGEDKAAIEAKMQELAQVSQKLMEIAQQQHAQQQAGSAEASANNAKDDDVVDAEFEEVKDKK |
| 1135 | sp|Q493S7|DNAK\_BLOPB | MGKIIGIDLGTTNSCVAIIEGNKPRVLENSEGDRTTPSIIAYTQDGEILVGQPAKRQSVTNPKNTLFAIKRLIGRRFQDTEVQRDVNIMPYKIISADNGDAWLDVKGQKMAPPQVSAEILKKMKKTAEDYLGEQISEAVITVPAYFNDAQRQATKDSGRIAGLEVKRIINEPTAAALAYGLDKETRGNRTIAVYDLGGGTFDISIIEIDDVDGEKTFEVLSTNGDTHLGGEDFDSLLINYLADEFKKDQRINLYNDPLAMQRLKEAAEKAKIELSASHQTDVNLPYITADNTGPKHMNIRVTRAKLESLVEDLVNRTMEPLKVALKDANLSVSNINDVILVGGQTRMPLVQKKVSEFFRKEPRRDVNPDEAVAIGAAVQGGVLSGDVKDVLLLDVTPLSLGIETMGGVMTSLIAKNTTIPTKHSQIFSTAEDNQSAVTIHVLQGERKRASDNKSLGQFNLDGIAAAMRGIPQIEVTFDIDADGILHVSAKDKNSGREQKITIKASSGLNEEEINKMVQEAEANAESDRKFEELVQIRNQADHLLHSTKKQLTEVGDNISLDDKSAIEGALKELESVIKKEDKNEIESKIQSLIKVSGKLLEASQKHQEQSKSQSSNSTSDPNGEVVDAEFEEIKNKK |
| 1136 | sp|Q8DKR6|DNAK1\_THEEB | MGKIIGIDLGTTNSCVAVLEGGNPVVIPNAEGGRTTPSIVAFGKSGERLVGQLAKRQAITNAENTIFSIKRFIGRRWEETAQERARVPYACVPGRDGMVDVQIRDRTYTPQEISAMVLQKLKQDAEAYLGEPVTQAVITVPAYFSDAQRQATKDAGAIAGLEVLRIINEPTAASLAYGIDKQDQDQTILVFDLGGGTFDVSILQLGDGVFEVRSTAGNNHLGGDNFDECIVDWLLACFKEQEGIDLSKDKMALQRLREAAEKAKVELSGTLSTSINLPFITADETGPKHLEMELTRSKFEELCAHLVQATLEPMQQAIADAGLTVEEIDRVLLVGGSTRIPAIQELVKQFCGKNPDRSVNPDEAVAIGAAIQGGILGKETTVKDLLLLDVTPLSLGLETLGGVFTKIIERNTTLPTSKTQTFSTASDGQTVVEIAVYQGERPIAKDNKQLACFELTGIAPAPRGVPQIDVTFDIDANGILSVSAVDRATGRQQSVRITNRGGLSSMEIERMRQEAQIYAQVDQIKKEIAELRNQADALLYSYESTIKNHGITLSPELRARIEPVVQSMQAAMVDDNITPDEIRKRMEALQQALVTLGSVVYQQTAGGSMMTSTPTMGRATMSSQATQVLDSEATIISDNEETVVSDYEAVD |
| 1137 | sp|Q5GRK1|DNAJ\_WOLTR | MSKKDYYKLLGVDRNASTDEIKKAYKKLALKYHPDRNPGNKEAEEKFKEITAAYEVLSDSEKRAGYDRYGHEGASGGFDFSQGFGSAGDFSDIFNDFFGGEFGSSSRSKAKRSTTGVPGADLRYDLEITLEDAFKGIQAPIHYVTNVKCDMCQGRGSEGATKPVQCHTCQGSGRIRTQQGFFTIERTCTTCYGEGEIIQNKCKKCNGSGRRRDEVNISVSIPKGIEEGAKVRVSGKGEAGAKGGKSGDLYVYVKITPHKIFTRNKADLHCKVPIRMTLAVLGGEIDVQSIDGAKIKVKVPEGTQTSTKLRCKEKGMPYMNSYARGDLYVQIIVETLNPNNLTKKQIELLKALEEEENASIQQQSEGFFSKVKKK |
| 1138 | sp|Q39PT7|DNAK\_GEOMG | MSKVIGIDLGTTNSCVAIMEGGEPVVIANSEGSRTTPSMVAFAESGERLVGQQAKRQAVTNPENTLFAIKRLIGRKFDTDEVRKDISISPFKIVKADNGDAWVDVRGKMYSPPEVSAIVLQKMKKTAEDYLGETVTDAVITVPAYFNDSQRQATKDAGKIAGLNVLRIINEPTAAALAYGLDKKKDEKIAVFDLGGGTFDISILELGDGVFEVKSTNGDTFLGGEDFDQRVIDWIADEFKKDQGIDLRGDKMALQRLKEAAEKAKCELSSSMETDINLPFITADATGPKHLTMKLSRAKLEALCAELLDKLEGPCRTALKDAGLSPSEVDEVILVGGMTRMPAVQKRVQEIFGKAPNKGVNPDEVVAIGAGIQGGVLRGDVKDVLLLDVTPLSLGIETLGSVMTKLIDKNTTIPCRKSQVFSTASDNQPAVTIHVLQGEREMASDNKTLGNFELTGIPPAPRGVPQIEVTFDIDANGIVHVSAKDLGTGKEQSIRITASSGLSKEEIDKMVREAESHAADDKKKRELIEARNHADTLAYSTEKSLKEYGDKIGDDEKKKIEEAVAALKKAMEGDDVDAIKQATDALTQASHKLAEAVYAKTQTEGGAQPGAEADGDTGAKGGEKVVDADFEEVKDDKK |
| 1139 | sp|B2J3J3|DNAJ\_NOSP7 | MARDYYEILGVSRDTDKEELKQAYRRLARKYHPDVNKEPGAEDRFKEINRAYEVLSEPETRARYDRFGPEGVSGAGAGFQDVGDMGGFADIFESIFSGFAGGMGSPTQQRRRSGPARGDDLRLDLKLDFREAVFGGEKEIRISHLENCEVCSGSGAKPGTRPRTCSTCSGSGQVRRVTRTPFGSFTQVSTCPTCNGTGMVIEDKCDACDGKGANQVTKKLKITIPAGVDNGTRLRISSEGDAGQRGGPSGDLYVYLFVNEDEEFQRDGINILSEIKISYLQAILGCRLEVDTVDGPVELIIPAGTQPNTVMKLENRGVPRLGNPVSRGDHMLNVLIDIPNKVTPEERELLEKLAKIKGDRTGKGGLEGFLGNLFK |
| 1140 | sp|Q5FFM4|DNAK\_EHRRG | MILCRGLFMAVIGIDLGTTNSCVAVMEGGDAKAIENSEGARTTPSIVAFTDSEVLVGDPAKRQATTNAKNTIYASKRLIGRRYQDTRDIKTSYDIVSAKNGDAWIKVRDKDYSPSQIGALILEKMKETAERHLGCKVEKAVITVPAYFDDAQRQATKDAGKIAGLDVIRIINEPTAAALAYGLNKSDKQKVIAVYDLGGGTFDVSILEIADGVFEVKSTNGDTMLGGEDFDHAIMEYLMDDFKKSTGIDLHSDAMAMQRIKEAAEKAKIELSSRMETDINLPFLSSDSTGPKHLSLKLTRATFENLVSDLVKRTIEPCKKALKDAGISADKIDEVVLVGGMTRVPKIIQTVKEFFGKEPHKGVNPDEVVAIGAAIQGGILAGDVRDVLLLDVTPLSLGIETLGGVFTPLIERNTTIPTKKSQVFSTAEDGQTAVTIKVFQGERKMANDNKLLGQFSLEGIPPAPRGMPQIEVTFDIDANGIVHVSAKDKASGKEQAIRIQSSGGLTDDEIQNMIKEAESKAEEDEKRKKFVEVKNNAENLVHSTEKSLKEHGDKISNADKLDIENAIRDLKDCISKDNIEDTDTMQNKLDHLMKVSMKLGEALYSNTNNATAGDNNTTDTGSSSNSDGSKVVDSDYQEIDKKDGK |
| 1141 | sp|B0JW23|DNAJ\_MICAN | MPTDYYEILGVSRDAGKEDIKRAYRRLARKYHPDVNKEPGAEEHFKEINRAYEILSEPETRNRYDRFGEAGVSGGAAGFDPDNMGGFADIFETIFSGFGGMGGQATARRRTGPTRGEDLRLDFRLKFREAVFGGEKEIRIRHLETCQTCKGSGARPGTSSRTCTTCSGTGQVRRATRTPFGTFAQVSVCPTCDGAGEVIEEKCDVCGGSGRRQETKKLKITIPAGVDNGMKLRVAREGDAGLKGGPPGDLFVYLTVETDAEFQREGNDIKSDITISYIQAILGCTIKVNTVDGQEDLTIPAGTQPNTVLILENKGVPKLGNPVSRGDHRITVKISIPTRVTGEERELLEKLAKVRGETVGKGGIEGFLGNIFHK |
| 1142 | sp|Q98PI9|DNAJ\_MYCPU | MNKKEDYYKILGIDKSANEKEIKKAYRKLAMEHHPDRSSSKESEAKMREINEAYEVLSNPEKKAIYDKYGHEAANNPGFNGFNAGSAGFGNFGGFSNFGGFDSIFEEFFGGSRSHSKQNSNYPYPGESYSTQVKISFLDSVHGRVISQKLDKYKDCESCNGTGARSKSDIKTCSTCNGRGSVEKLVNSLFGKIKQSVTCSTCNGLGQEITHKCPSCKGAKKIKESISQKISIPAGVISGQEVLLRGFGGPGFNGGPNGDLYIRVYVTEHPYYQRINDDIYVDFPISIVNLILEKPVVVPTPYGDEKIKIKSTFKNDQIITFKGKGFKRKNRVGDLKIRLKFEIPNFSSKVKKNLESLLSETNDSINEDFVKKVNSIK |
| 1143 | sp|Q3IYM8|DNAJ\_RHOS4 | MAKRDYYEVLGVSRTASADELKKAYRTKAKELHPDRNADNPQAEAQFKEVNEAYDVLRDADKKAAYDRYGHAAFEGGMGGGARAGGGYGQQGDFASAFSDVFEDLFGDFMGGRGGAPRSRAQRGSDLRYNLRVTLDEAYRGVQKTINVPASVACDACKGTGAEGGAEAVTCPTCSGMGKVRAQQGFFTVERTCPTCNGMGQIVKNPCKVCHGAGRVEKERSLSVNIPAGVETGTRIRLAGEGEAGMRGGPSGDLYIFIEVREHALFQRDGVHLFCRVPVSIAAAALGGEVEVPTIDGGSSRVKIPAGSQTGKQMRLRGKGMPALRGGGAGDMLIELAVETPVNLTARQKELLREFEKLSEDNNPEGKSFFSKVKGFWDGMTG |
| 1144 | sp|Q0SRE3|DNAK\_CLOPS | MSKIIGIDLGTTNSCVAVMEGGEPVVITNSEGARTTPSVVSFQANGERLVGQVAKRQAITNPEKTIMSIKRHMGTDYKVNIDGKDYTPQEISAMILQKLKADAEAYLGEKVTEAVITVPAYFNDAERQATKDAGRIAGLDVKRIINEPTAASLAYGLDKMDSAHKILVYDLGGGTFDVSILDLGDGVFEVVSTNGDARLGGDDFDQRIIDYIAEDFKAQNGIDLRQDKMALQRLKEAAEKAKIELSSSTQTLINLPFITADATGPKHIDMTLTRAKFNELTHDLVERTIDIMKEALKSGNVSLNDIDKVILVGGSTRIPAVQEAVKNFTGKEPSKGVNPDECVAMGAAIQAGVLTGDVKDVLLLDVTPLTLGIETLGGVATPLIERNTTIPARKSQIFSTAADNQTSVEIHVVQGERQMAADNKTLGRFTLSGIAPAPRGIPQIEVAFDIDANGIVKVSATDKATGKEANITITASTNLSDAEIDKAVKEAEQFAEEDKKRKEAIEVKNNAEQIVYQTEKTLNELGDKVSAEEKSEIEAKIEEVKKVKDGDDIEAIKKAMEDLTQAFYKISEKLYQQNGGAQGEGFDPNNMGGANAGTGAANSNDDNVVDADFEVQDDK |
| 1145 | sp|B0CJX5|DNAJ\_BRUSI | MKIDYYEALGVTRTADDKTLKAAFRKLAMQYHPDRNPDDPEAERKFKEIGEAYETLKDPQKRAAYDRFGHAAFENGGMGGGFGNGFGGAGGFADIFEDIFGEMMGGGRRRSNGGRERGADLRYNMEVTLEEAYAGKTAQIRVPTSITCDECSGSGAKPGSQPTTCTMCSGSGRVRAAQGFFSVERTCPGCNGRGQIIKDPCEKCHGQGRVTQERSLSVNIPAGIEDGTRIRLAGEGEAGLRGGPAGDLYIFLSVKPHEFFQRDGADLYCKVPISMTTAALGGQFEVSTLDGTQTRVKVPEGTQNGKQFRLKGKGMPVLRQSVTGDLYIQIDIETPQNLSKRQRELLEEFEKLSSQENSPKSAGFFSRMKEFFEGIGE |
| 1146 | sp|Q661A4|DNAJ\_BORBP | MKKDYYEILGLSKGASKDEIKKAYRKIAIKYHPDRNQGNEEAASIFKEATQAYEVLIDDNKKAKYDRFGHSAFEGGGFEGFSGGFSGFSDIFEDFGDIFDSFFTGNKGQERNRKHARGEDLGYNIEISLENAYFGYKNNINITRQILCHSCLGKKSEKGTSPSICNMCNGSGRVVQGGGFFRVTTTCSKCYGEGKTISNPCKSCKGKGRITNQETIQLNIPSGIDNNQQIKMKGKGNVNPDNQEYGDLYVKILIRSHKIFKRNGKDLYAMLPISFTQAALGKEVRIKTIASKEIKIQIPKGIENEEQIIVKGAGMPILQTEKFGNLILITKIKTPKNLNSNAIKLFENLSKELRDGDEIDLLKV |
| 1147 | sp|Q0K758|DNAJ\_CUPNH | MAKRDYYEVLGVGKNASDDEIKKAYRKLAMKYHPDRNPEGKDGKIAEEKFKEVKEAYEMLSDPEKKAAYDQYGHAGVDPNMAGGFGGAQGYGGFAEAFGDIFGDIFGQQAGGRRGGGGPQAYRGADLRYSMEISLEQAAHGHEAQIRVPHWDDCDHCHGNGAEPGSSVETCPTCHGAGQVRVSQGFFTMQQTCPKCHGSGKYIPKPCTKCHGQGKLKSQKTLEVKIPAGIDEGMRIRSSGNGEPGINGGPPGDLYVEVHIKAHPMFERDGDDLHCQMPISFATAALGGDLEVPTLSGKATFPVPEATQSGKTFRLRGKGIKGVRSGYPGDLYVHVNVETPVKLTEAQKEMLRQFDRSVHEGGSRHSPQEQSWLDKVKSFFS |
| 1148 | sp|P0A3J2|DNAK\_STRA3 | MSKIIGIDLGTTNSAVAVLEGTESKIIANPEGNRTTPSVVSFKNGEIIVGDAAKRQAVTNPDTVISIKSKMGTSEKVSANGKEYTPQEISAMILQYLKGYAEDYLGEKVEKAVITVPAYFNDAQRQATKDAGKIAGLEVERIVNEPTAAALAYGMDKTDKDEKILVFDLGGGTFDVSILELGDGVFDVLATAGDNKLGGDDFDQKIIDFLVEEFKKENGIDLSQDKMALQRLKDAAEKAKKDLSGVTQTQISLPFITAGSAGPLHLEMSLSRAKFDDLTRDLVERTKTPVRQALSDAGLSLSEIDEVILVGGSTRIPAVVEAVKAETGKEPNKSVNPDEVVAMGAAIQGGVITGDVKDVVLLDVTPLSLGIETMGGVFTKLIDRNTTIPTSKSQVFSTAADNQPAVDIHVLQGERPMAADNKTLGRFQLTDIPAAPRGIPQIEVTFDIDKNGIVSVKAKDLGTQKEQHIVIQSNSGLTDEEIDKMMKDAEANAEADAKRKEEVDLKNEVDQAIFATEKTIKETEGKGFDTERDAAQSALDELKKAQESGNLDDMKAKLEALNEKAQALAVKLYEQAAAAQQAAQGAEGAQSADSSSKGDDVVDGEFTEK |
| 1149 | sp|A8Z4B9|DNAK\_STAAT | MSKIIGIDLGTTNSCVTVLEGDEPKVIQNPEGSRTTPSVVAFKNGETQVGEVAKRQAITNPNTVQSIKRHMGTDYKVDIEGKSYTPQEISAMILQNLKNTAESYLGEKVDKAVITVPAYFNDAERQATKDAGKIAGLEVERIINEPTAAALAYGLDKTDKDEKVLVFDLGGGTFDVSILELGDGVFEVLSTAGDNKLGGDDFDQVIIDYLVAEFKKENGVDLSQDKMALQRLKDAAEKAKKDLSGVSQTQISLPFISAGENGPLHLEVNLTRSKFEELSDSLIRRTMEPTRQAMKDAGLTNSDIDEVILVGGSTRIPAVQEAVKKEIGKEPNKGVNPDEVVAMGAAIQGGVITGDVKDVVLLDVTPLSLGIEILGGRMNTLIERNTTIPTSKSQIYSTAVDNQPSVDVHVLQGERPMAADNKTLGRFQLTDIPPAERGKPQIEVTFDIDKNGIVNVTAKDLGTNKEQRITIQSSSSLSDEEIDRMVKDAEVNAEADKKRREEVDLRNEADSLVFQVEKTLTDLGENIGEEDKKSAEEKKDALKTALEGQDIEDIKSKKEELEKVIQELSAKVYEQAAQQQQQAQGANAGQNNDSTVEDAEFKEVKDDDKK |
| 1150 | sp|B0K3Y0|DNAK\_THEPX | MGKVIGIDLGTTFSCVAVMEGGQPVVIPNAEGARTTPSVVAFTKEGERLVGQVAKRQAIVNPDRTIMSIKRHMGSDYKVKIDDKEYTPQEISAMILQKLKADAEAYLGEKVTQAVITVPAYFNDSQRQATKDAGRIAGLEVLRIINEPTAAALAYGLDKEGNQKIMVYDLGGGTFDVSILEIGEGVFEVLATSGNNHLGGDDFDQRIIDWLADNFKKEHGIDLRNDRMALQRLKDAAERAKIELSSATVTNINLPFITADATGPKHIDVNLTRAKFEELISDLVESTVGPVNQALNDAGLKPSDIDKVLLIGGSTRVPLVQETVKKIMGKEPHKGINPDEAVAIGAAIQAAVLSGEVKDILLLDVTPLSLGIETLGGVFTKIIERNTTIPTRKSQIFTTAADNQTSVEIHVLQGERPMAKDNKTLGRFILSGIPPAPRGVPQIEVTFDIDANGIVHVSAKDLGTGKSQDITITSTTNLSEEEIQRMINEAKQYEEQDRKKKEEIEIRNKADSLIYQAEKTMKDLGDKMTQAEKDEINKEIENVRKALEGSDIEAIKSASEKLSQAFYKVSTRIYQQAGGQTGGATNTDSAGQGTTQDNVYEANYKVEDDDNK |
| 1151 | sp|B5ZBE9|DNAK\_UREU1 | MTKEIILGIDLGTTNSCVAVIENKKPIVLENPEGKRTVPSVVSFNGDEVLVGDAAKRKQITNPNTVSSIKRLMGTKEKVTILNKEYTPEEISAKILSYIKDYAEKKLGTKINKAVITVPAYFDDAQRQATKNAGIIAGLTVERIINEPTAAALAYGIDKLDKEQKILVFDLGGGTFDVSVLDMADGTFEVLSTSGDNHLGGDDWDQVIINWLLKSIADEFNIDLSKNKMAMQRLKDAAEKAKIELSGVNTTTISLPFIAMDSSGQPINFEKELNRATFDNLTKNLIERLKKPVLDAMKESKLSLADIDQVLMVGGSTRMPAVQNLVKELTGKEPNHSLNPDEVVAIGAAIQGGVLAGEIDDILLLDVTPLTLSIETMGGVATPLIPRNTKIPVSKSQVFSTAADNQPSVDIRIVQGERSLAADNKLLGNFELSGIEPAPRGVPQIEIKFNIDANGIMSVNAKDLKTQKETSITIKDSQGLSQEEIDKMIKEAEENKEKDAKVKHERELVNRADSLINQLEQVVKTENVPQEQKDAFNKQIEELTNARDAQDYTKLEAEVKKVEDLLANAAKFAQQTQQQDPNNQKDDVTEATVTDDSTKK |
| 1152 | sp|P64410|DNAK\_TROW8 | MSRAVGIDLGTTNSVVAVLEGGEPNVIANAEGLRTTPSVVAFSRDGEVLVGDTAKRQAVTNVDNTISSVKRHIGTDWTKQIGDKKYTPQEISARILSKLKRDAEQYLGEKVTDAVITVPAYFNDAERQATKEAGEIAGLNVLRIINEPTAAALAYGLDKGKEDELILVFDLGGGTFDVSLLEVGKDDDFSTIQVRATSGDNRLGGDDWDQRIIDWLVDDFRKTTGVDLSSDKIAMQRLREASEQAKKELSSATSANIQLPYISLTESGPVNMDTTITRAQFEKMTEDLLERTKNPFRDVLKEAGVSVDKISHVVLVGGSTRMPAVSDLVKRETGKEPNKGVNPDEVVAVGAALQAGVLRGERKDVLLIDVTPLSLGIETKGGIMTKLIERNTAIPTKRSEVFTTAEDNQPSVSIQVFQGERELTQDNKNLGTFELTGIAPAPRGLPQIEVTFDIDANGIVHVSAKDKGTGKEQSMTITGGSGLSQDEIDRMIKEAEEHAAEDKNRRARVDQKNQAEQMVYTAEKLIGDNAKVNEEAKKELQADIDSLKSAIQADDHDLIKAGTDKLLASQQKFAQSVYETTKDDPKEQVVDAEVVDEDSGSSK |
| 1153 | sp|Q4G2J5|DER12\_MAIZE | MSSPAEYYKSLPPISKAYGTLCFFTTVLVRLHILNPLFLYLYYPRVFKKFEVWRIFTSFFFLGPFSINFGIRLLMIARYGVMLEKGAFDKRTADFLWMMIFGAISLLVLSVIPQLNTYVLGLPMVSMLVYVWSRENPNAQINIYGILQLKAFYLPWVMLLLDVIFGSPLMPGLLGIMVGHLYYYFAVLHPLATGKNYLKTPKWVHKIVARFRIGMQANAPVRAPANGNAGTGAFRGRSYRLNQ |
| 1154 | sp|Q0T8H5|DNAJ\_SHIF8 | MAKQDYYEILGVSKTAEEREIRKAYKRLAMKYHPDRNQGDKEAEAKFKEIKEAYEVLTDSQKRAAYDQYGHAAFEQGGMGGGGFGGGADFSDIFGDVFGDIFGGGRGRQRAARGADLRYNMELTLEEAVRGVTKEIRIPTLEECDVCHGSGAKPGTQPQTCPTCHGSGQVQMRQGFFAVQQTCPHCQGRGTLIKDPCNKCHGHGRVERSKTLSVKIPAGVDTGDRIRLAGEGEAGEHGAPAGDLYVQVQVKQHPIFEREGNNLYCEVPINFAMAALGGEIEVPTLDGRVKLKVPGETQTGKLFRMRGKGVKSVRGGAQGDLLCRVVVETPVGLNEKQKQLLQELQESFGGPTGEHNSPRSKSFFDGVKKFFDDLTR |
| 1155 | sp|Q19192|E2AKA\_CAEEL | MSVYYIVLAGFLLFMALVPFNAGQQYIDDDIEVVSSCQNGYVQNAGCDQNSQVNIIITATLDGVVTALDGETGEMIWRYEDAPLLRGTLSTSDPIDIGGTSLQLMPTLDGRLFSYTHNTNLIEPLPITTDSLLESTIRLGQDAVAGGKSVTTKGFDLFTGEQKYECSMESCGPGDTETPKNPIILIRRTTNSIRAMDTLRGIERWNLSTAEIGVTLAGGITSPTLVSDVKILLQPPDGVIVAVDKYNREEWKTNVDGHIVSVWQVYGNQIGEISIFDPSNIFTTQYEVMQREQHNLQTQSSLLYMGTSNGFPFIIQSPKAKNNLKQRMNALPELSTMTELTNPRFCTANEETRSLAYNVKDETLRLVLHNAFRHSQSKAIEDKSLSGSSARRKLQIIASDTEVSAQRIGTENLRSTSVSKSGDYGYLVLESEPQRVKFKVNSPITLMQTIFSYIFNPTAVVSFLAGLIGVTVAVVYNKIAKSSPRMIEHLSSTESAETESASHRTRTTSFAPTDDEIERFVEEGSDLSTTPIGAIHRKPLMPIEKSNIETHTQPQIKPVQRLVKTDIDTDEDSFSNDEKKRLLRNRTISRSSLEGFTSRFANEFEVKKVIGHGGFGVVFRAQSITDMNEYAVKRIAVADNDKARNRVLREARALAMFDHPGIIRYFYAWEERPPKGFQEKEDENLLGKIKAEKLAKLHEIKKAKKHTSEGKRVRSADTASFAESFAMPPVVGNTTDAENSWSTSAKPQEVGAKRTTSESKLGLHGGSDRTTAELKEESVAFSESDEESDTTEDSSSSDESPSSSSGSSIDDEPKKYNSSSGGIEFVDGSDDVDNEAVKETKKEIAVIEELSIHNRAMIVETENQELEVRERNDTGDCAYLYIVMQLCAEKTLEDWIRRSKTMESRPLFTMKNWIKQLASGLEYLHNKGFIHRDLKPGNVFFSLDSTHGHQILKIGDLGLATKTDGAPKITVRQDSDSSAKHTKNVGTRSYMSPEQLKHQQYTEKVDIFALGLVATELIISFSTASERIHTFADFQKGDIPAILDNVPESRDFLLQLTSLEPSERPTAHEVATHKFLQ |
| 1156 | sp|Q94IB9|ACER\_ARATH | MADGISSFWGPVTSTIECCEMNYAYSSYIAEFYNTISNVPGILLALIGLVNALRQRFEKRFSILHISNMILAIGSMLYHATLQHVQQQSDETPMVWEILLYMYILYSPDWHYRSTMPTFLFLYGAAFAIVHAYLRFGIGFKVHYVILCLLCIPRMYKYYIHTEDTAAKRIAKWYVATILVGSICWFCDRVFCKTISQWPVNPQGHALWHVFMSFNSYCANTFLMFCRAQQRGWNPKVKYFLGVLPYVKIEKPKTQ |
| 1157 | sp|P36604|BIP\_SCHPO | MKKFQLFSILSYFVALFLLPMAFASGDDNSTESYGTVIGIDLGTTYSCVAVMKNGRVEIIANDQGNRITPSYVAFTEDERLVGEAAKNQAPSNPENTIFDIKRLIGRKFDEKTMAKDIKSFPFHIVNDKNRPLVEVNVGGKKKKFTPEEISAMILSKMKQTAEAYLGKPVTHAVVTVPAYFNDAQRQATKDAGTIAGLNVIRIVNEPTAAAIAYGLDKTDTEKHIVVYDLGGGTFDVSLLSIDNGVFEVLATSGDTHLGGEDFDNRVINYLARTYNRKNNVDVTKDLKAMGKLKREVEKAKRTLSSQKSVRIEIESFFNGQDFSETLSRAKFEEINMDLFKKTLKPVEQVLKDSNLKKSEIDDIVLVGGSTRIPKVQELLESFFGKKASKGINPDEAVAYGAAVQAGVLSGEEGSDNIVLLDVIPLTLGIETTGGVMTKLIGRNTPIPTRKSQIFSTAVDNQNTVLIQVYEGERTLTKDNNLLGKFDLRGIPPAPRGVPQIEVTFEVDANGVLTVSAVDKSGKGKPEKLVIKNDKGRLSEEDIERMVKEAEEFAEEDKILKERIEARNTLENYAYSLKGQFDDDEQLGGKVDPEDKQAVLDAVEDVAEWLEIHGEDASKEEFEDQRQKLDAVVHPITQKLYSEGAGDADEEDDDYFDDEADEL |
| 1158 | sp|P77828|CH101\_BRADU | MHFRPLHDRVLVRRIDAEEKTAGGIIIPDTAKEKPQEGEIIAAGSGGRNEQGQLIPIDVKPGDRVLFGKWSGTEVKIDGQDYLIMKESDLLGVVDKTGSVKKAA |
| 1159 | sp|Q9FY74|CMTA1\_ARATH | MVDRRSFGSITPPLQLDMEQLLSEAQHRWLRPTEICEILQNYHKFHIASESPTRPASGSLFLFDRKVLRYFRKDGHNWRKKKDGKTIREAHEKLKVGSIDVLHCYYAHGEANENFQRRCYWMLEQHLMHIVFVHYLEVKGNRTSIGMKENNSNSVNGTASVNIDSTASPTSTLSSLCEDADTGDSQQASSVLRPSPEPQTGNRYGWTPAPGMRNVSQVHGNRVRESDSQRLVDVRALDTVGNSLTRFHDQPYCNNLLTQMQPSNTDSMLVEENSEKGGRLKAEHIRNPLQTQFNWQDDTDLALFEQSAQDNFETFSSLLGSENLQPFGISYQAPPSNMDSEYMPVMKILRRSEDSLKKVDSFSKWAIKELGEMEDLQMQSSRGDIAWTTVECETAAAGISLSPSLSEDQRFTIVDFWPKSAKTDAEVEVMVIGTFLLSPQEVTKYNWSCMFGEVEVPAEILVDGVLCCHAPPHTAGHVPFYVTCSNRFACSEVREFDFLSGSTQKINATDVYGTYTNEASLQLRFEKMLAHRDFVHEHHIFEDVGDKRRQISKIMLLKEEKEYLLPGTYQRDSTKQEPKGQLFRELFEEELYIWLIHKVTEEGKGPNILDEDGQGILHFVAALGYDWAIKPVLAAGVNINFRDANGWSALHWAAFSGREETVAVLVSLGADAGALTDPSPELPLGKTAADLAYANGHRGISGFLAESSLTSYLEKLTVDSKENSPANSCGEKAVQTVSERTAAPMTYGDVPEKLSLKDSLTAVRNATQAADRLHQVFRMQSFQRKQLCDIGDDEKIDISDQLAVSFAASKTKNPGQGDVSLSCAATHIQKKYRGWKKRKEFLLIRQRIVKIQAHVRGHQVRKQYRTVIWSVGLLEKIILRWRRKGNGLRGFKRNAVAKTVEPEPPVSAICPRIPQEDEYDYLKEGRKQTEERLQKALTRVKSMVQYPEARDQYRRLLTVVEGFRENEASSSASINNKEEEAVNCEEDDFIDIESLLNDDTLMMSISP |
| 1160 | sp|Q7A6G6|CLPB\_STAAN | MDINKMTYAVQSALQQAVELSQQHKLQNIEIEAILSAALNESESLYKSILERANIEVDQLNKAYEDKLNTYASVEGDNIQYGQYISQQANQLITKAESYMKEYEDEYISMEHILRSAMDIDQTTKHYINNKVEVIKEIIKKVRGGNHVTSQNPEVNYEALAKYGRDLVEEVRQGKMDPVIGRDEEIRNTIRILSRKTKNNPVLIGEPGVGKTAIVEGLAQRIVKKDVPESLLDKTVFELDLSALVAGAKYRGEFEERLKAVLKEVKESDGRIILFIDEIHMLVGAGKTDGAMDAGNMLKPMLARGELHCIGATTLNEYREYIEKDSALERRFQKVAVSEPDVEDTISILRGLKERYEVYHGVRIQDRALVAAAELSDRYITDRFLPDKAIDLVDQACATIRTEMGSNPTELDQVNRRVMQLEIEESALKNESDNASKQRLQELQEELANEKEKQAALQSRVESEKEKIANLQEKRAQLDESRQALEDAQTNNNLEKAAELQYGTIPQLEKELRELEDNFQDEQGEDTDRMIREVVTDEEIGDIVSQWTGIPVSKLVETEREKLLHLSDILHKRVVGQDKAVDLVSDAVVRARAGIKDPNRPIGSFLFLGPTGVGKTELAKSLAASLFDSEKHMIRIDMSEYMEKHAVSRLIGAPPGYIGHDEGGQLTEAVRRNPYSVILLDEVEKAHTDVFNVLLQILDEGRLTDSKGRSVDFKNTIIIMTSNIGSQVLLENVKETGEITESTEKAVMTNLNAYFKPEILNRMDDIVLFKPLSIDDMSMIVDKILTQLNIRLLEQRISIEVSDDAKAWLGQEAYEPQYGARPLKRFVQRQIETPLARMMIKEGFPEGTTIKVNLNSDNNLTFNVEKIHE |
| 1161 | sp|O93235|CIRBA\_XENLA | MSDEGKLFIGGLNFETNEDCLEQAFTKYGRISEVVVVKDRETKRSRGFGFVTFENVDDAKDAMMAMNGKSVDGRQIRVDQAGKSSGERRGGYRGGSSGGRGFFRGGRGRGGGDRGYGSSRFDNRSGGYGGSSGSRDYYGSGRSQGSYGDRSGGSYRDSYDSYATHE |
| 1162 | sp|P60826|CIRBP\_CRIGR | MASDEGKLFVGGLSFDTNEQALEQVFSKYGQISEVVVVKDRETQRSRGFGFVTFENIDDAKDAMMAMNGKSVDGRQIRVDQAGKSSDNRSRGYRGGSAGGRGFFRGGRSRGRGFSRGGGDRGYGGGRFESRSGGYGGSRDYYASRSQGGSYGYRSSGGSYRDSYDSYATHNE |
| 1163 | sp|P60825|CIRBP\_RAT | MASDEGKLFVGGLSFDTNEQALEQVFSKYGQISEVVVVKDRETQRSRGFGFVTFENIDDAKDAMMAMNGKSVDGRQIRVDQAGKSSDNRSRGYRGGSAGGRGFFRGGRSRGRGFSRGGGDRGYGGGRFESRSGGYGGSRDYYASRSQGGSYGYRSSGGSYRDSYDSYATHNE |
| 1164 | sp|Q9JTP9|CLPB\_NEIMA | MRYDKLTAKFQQALAEAQSLALAADSSYLEAGFVLKALLDDQNSGAAALLAHAGVNVPQVKQRLQQHLNSLPKVSGQGGDILPSRELQAVLNLMDKAATKRGDAYIASELFLLALVQQNDAAGKILKEAGATEQNINAAIDAVRGGQNVNDANAEDQRDALKKYTLDLTQRARDGKLDPVIGRDDEIRRAIQVLQRRTKNNPVLIGEPGVGKTAIVEGLAQRIVNGEVPESLRNKRLLVLDLAALIAGAKYRGEFEERLKGVLNDLAKDDGNTLIFIDEIHTLVGAGKTDGAMDAGNMLKPALARGELHCIGATTLDEYRQYIEKDAALERRFQKVLVGEPSVEDTIAILRGLQERYEIHHGIDITDPAIVAAAELSDRYITDRFLPDKAIDLIDEAASRVKMEKETKPEAMDKIDRRLIQLRMEKAHVEKEKDDASKKRLELIDEEINGLQKEYADLDEIWKAEKAISDGAANIKKQIDEVKIKIEQAKRQGDLALASKLMYEDLEHLEKQRAAAERADTDSTKPANKLLRNNVGAEEIAEVVSRMTGIPVSKMMEGERDKLLKMEEVLHRRVVGQDEAVRAVSDAIRRSRSGLADPNKPYGSFLFLGPTGVGKTELCKALAGFLFDSEDHLIRIDMSEYMEKHAVARLIGAPPGYVGYEEGGYLTEQVRRKPYSVILLDEVEKAHPDVFNILLQVLDDGRLTDGQGRTVDFKNTVIVMTSNIGSQHIQQMGIQDYEAVKEVVMEDVKEHFRPEMINRIDEVVVFHGLDQANIRSIAKIQLKGLEKRLEKQNLRLAVSDAALDIIAKAGFDPIYGARPLKRAIQSEIENPLAKALLAGNYAPESEIRVEADGDRLKFA |
| 1165 | sp|Q8XZR0|CLPB\_RALSO | MRLDKLTTRFQEALADAQSLALGNDNPYIEPLHLLLAMLRQPDGATKNLLARAGVNAKGLEIALDNAIKRLPQVQGGEQVQVGRDLGSLLQATEKEGIKRGDQFIASELFLLAVADDKGEAGRVAREHGLARRALEAAIDAVRGGQTVGSAEAESQREALKKYTIDLTEQARIGKLDPVIGRDDEIRRAIQILQRRTKNNPVLIGEPGVGKTAIVEGLAQRIINGEVPESLKNKRVLVLDMAGLLAGAKYRGEFEERLKAVLNDIAKEEGQTILFIDEIHTMVGAGKAEGAIDAGNMLKPALARGELHCIGATTLDEYRKYIEKDAALERRFQKVLVDEPSVEATIAILRGLQEKYELHHGVEITDPAIVAAAELSHRYITDRFLPDKAIDLIDEAAARIKMEIDSKPEAMDKLDRRLIQLKIEREAVKKETDEASQKRLELIEQEIERLQKEYADLEEIWKAEKGAAQGAAAVKEEIDRVKLEIARLQREGKLDKVAELQYGRLPELEGKLKAATAAEASGQRPPNKLLRTQVGAEEIAEVVSRATGIPVSKMMQGERDKLLRMEDRLHERVVGQDEAVRLVSDAIRRSRAGIADENKPYGSFLFLGPTGVGKTELCKALAGFLFDSEEHLIRIDMSEFMEKHSVSRLIGAPPGYVGYEEGGYLTEAVRRKPYSVVLLDEVEKAHPDVFNILLQVLDDGRLTDGQGRTVDFKNTVIVMTSNLGSQLIQQMASESPDVIKGAVWQEVKTHFRPEFLNRIDEVVVFHALDQGHIESIARIQLQRLAARLAHMDLTLEISDPAVAKLASAGYDPVFGARPLKRAIQQQIENPVARMILEGRFTPKDVVPVDYHDGHFTFDRVVR |
| 1166 | sp|Q98G96|CLPB\_RHILO | MNLEKYSERVRGFIQSAQTMALSRNHQQFTPEHILKVLVDDDEGLAASLIERAGGNVRDVKLGVETALEAMPKVEGGNGQLYLAQPLAKVFSTAEELAKKAGDSFVTVERLLQALTMEKSAKTADILAKAGVTAQALNQVINDVRKGRTADSASAEQNYDALKKYARDLTADARAGKLDPVIGRDDEIRRTIQVLSRRTKNNPVLIGEPGVGKTAIAEGLALRIVNGDVPESLKDKQLMALDMGALIAGAKYRGEFEERLKAVLSEVTSANGNIILFIDEMHTLVGAGKADGAMDASNLLKPALARGELHCVGATTLDEYRKHVEKDPALARRFQPVFVDEPTVEDTVSILRGLKEKYEQHHKVRISDSALVAAATLSNRYIADRFLPDKAIDLVDEAASRLRMQVDSKPEALDEIDRRIMQLKIEREALKVETDDASKDRLVRLEKELVGLEEESTEITAKWQAEKQKLGLAADLKKQLDEARNELAIAQRKGEFQRAGELAYGKIPELEKKLKEAEAQDGKAGMVEEVVTPDHVAHIVSRWTGIPVDKMLQGERDKLLRMEDEIGKRVVGQGEAVQAVSKAVRRARAGLQDPNRPIGSFIFLGPTGVGKTELTKALASFLFDDDSAMVRIDMSEFMEKHSVARLIGAPPGYVGYEEGGALTEAVRRRPYQVVLFDEIEKAHPDVFNVLLQVLDDGRLTDGQGRTVDFRNTLIIMTSNLGAEYLVNLGEDQDVDAVRDEVMGVVRASFRPEFLNRVDEVILFHRLRRKDMDRIVEIQFKRLESLLVDRKITLSLDHEAIEWLAAKGYDPAYGARPLKRVMQKELQDPLAEKILLGEILDGSTVKVTSGSDRLNFRSKPTVVATEAAA |
| 1167 | sp|Q28IQ9|CIRBP\_XENTR | MSCDEGKLFVGGLNFETTEESLEQVFSKYGQVAEVVVVKDRESKRSRGFGFVTFENPEDAKDAMMAMNGKSVDGRQIRVDQAGKSSNDRRGGYRGGSSGGRGFFRGGRGRGGGGDRGYGGSSRFENRSGGYQSSGSRDYYGRSHGSYGDRSGGSYRDSYDSYTTQE |
| 1168 | sp|Q6HPE6|CSHA\_BACHK | MTTFRELGLSDSLLQSVESMGFEEATPIQAETIPHALQGKDIIGQAQTGTGKTAAFGLPLLDKVDTHKESVQGIVIAPTRELAIQVGEELYKIGKHKRVRILPIYGGQDINRQIRALKKHPHIIVGTPGRILDHINRKTLRLQNVETVVLDEADEMLNMGFIEDIEAILTDVPETHQTLLFSATMPDPIRRIAERFMTEPQHIKVKAKEVTMPNIQQFYLEVQEKKKFDVLTRLLDIQSPELAIVFGRTKRRVDELSEALNLRGYAAEGIHGDLTQAKRMSVLRKFKEGSIEVLVATDVAARGLDISGVTHVYNFDIPQDPESYVHRIGRTGRAGKKGIAMLFVTPRESGQLKNIERTTKRKMDRMDAPTLDEALEGQQRLIAEKLQSTIENENLAYYKRIAEEMLEENDSVTVVAAALKMMTKEPDTTPIALTSEPPVVSRGGGSKKRGGNGGGYRDGNRNRSRDGRGGDGRNRDRNRDGRNRDGNRDRNREGSRDGNRGRRGEGQGRPGSSNGRGERKHHSRKPQA |
| 1169 | sp|Q07202|CORA\_MEDSA | MDSKKAILMLSLLAMALISSVMSARDLTETSTDAKKEVVEKTNEVNDAKYGGGYNHGGGYNGGGYNHGGGYNHGGGGYHNGGGGYNHGGGGYNGGGGHGGHGGGGYNGGGGHGGHGGGGYNGGGGHGGHGGAESVAVQTEEKTNEVNDAKYGGGSNYNDGRGGYNHGGGGYNHGGGGHGGHGGHGGHGGHGGHGAVQTEDNTQN |
| 1170 | sp|Q9RYE6|DDRC\_DEIRA | MGTGDPSPLASQGPLPLVEGQKMKKPPPVRRGMNEAMEDRGSFFMALVSAYALHLARPFPALALAAGYLFVEGEDGCVAPRFAFLNGAGGHGVDVGQPQQFGARQAVAGGLDAAFLTYRRAVLAKDGAVADAAELTVDPALATVPGDGGEQFAPGASAFQSGSEPAPGVRLGVALGNLGSHAHVALHGAGEQLPRPLLPAPGFGGVEGEGKRHEIGHAHGGLGSGAEVAVRLGQAVFDQRRFPALGEPELLLGGGGVKQTVRADRQPHGAEIEGQRSVLHTDILAQIMFLT |
| 1171 | sp|Q607A5|DNAK\_METCA | MAKIIGIDLGTTNSCVAILEGGKPRVIENSEGARTTPSIVAFTADNEVLVGQSAKRQAITNPKNTLFAIKRLIGRRYKDDVVQKDIKMVPYTIVEAENGDAWVEVGGKKMAPPEISARVLMKLKKDAEAYLGEEVKEAVITVPAYFNDSQRQATKDAGRIAGLDVKRIINEPTAAALAYGMDKSRGDQKIAVYDLGGGTFDISIIEIAEVDGEHQFEVLSTNGDTFLGGEDFDLRIIEYIVDEFRKEQGIDLHNDPLALQRLKESAEKAKIELSSSQQTEINLPYITADATGPKHLNVKLTRAKLEALVEDLILRTRGPCETALKDAGLKSADIDEVILVGGQTRMPKVQEFVKEIFGREPRKDVNPDEAVAVGAAIQAGVLGGQVKDVLLLDVTPLSLGIETLGGVMTKLIEKNTTIPTKATQVFSTAEDNQTAVTIHVLQGEREMARDNKSLGRFDLSDIPMAPRGVPQIEVTFDIDANGILNVSAKDKATGKQQSIVIRASSGLSEDEIKRMVKDAELHAEEDRRMHELVSARNHADAVVHATNKTLAELGDKVSGEERAKIEAALNDLKDAMGGDNKDLIEQRTSALTELSGKLAERLYTQQGGTAGSETHSHEKAGGSGGDDVVDAEFEEVRDDKR |
| 1172 | sp|Q48E62|DNAK\_PSE14 | MDRIIGIDLGTTNSCVSILENGNVKVIENAEGTRTTPSIIAYANDGEILVGQSAKRQAVTNPHNTLYAVKRLIGRKFEEDVVQKDIQMVPYKIVKADNGDAWVEVNGQKMAPPQISAEILKKMKKTAEDYLGEAVTEAVITVPAYFNDSQRQATKDAGRIAGLDVKRIINEPTAAALAYGMDKAKGDHTVIVYDLGGGTFDVSVIEIAEVDGEHQFEVLATNGDTFLGGEDFDIRLIDYFVDEFKKESGMNLKGDPLAMQRLKEAAEKAKIELSSSTQTEVNLPYITADATGPKHLVVKISRSKLESLVEDLVQRTIAPCEMALKDAGIDRSKINDVILVGGQTRMPLVQKLVTEFFGKEARKDVNPDEAVAMGAAIQGAVLAGDVKDVLLLDVSPLTLGIETMGGVMTALIEKNTTIPTKKSQVFSTADDNQNAVTIHVLQGERKQAGQNKSLGKFDLAEIPPAPRGVPQIEVTFDIDANGILHVGAKDKATGKQQSIVIKANSGLSEEEIQQMVRDAEVNSEEDRKFEELASARNQGDALVHSTRKMIADAGDKVTAEEKTAVEAALVALEAAIKGDDKAAIEAKVEELSKVSAPIAQKMYAEQAENPEAAAKPAEENGKADDVVDAEFEEVKDHK |
| 1173 | sp|A6WRU9|DNAK\_SHEB8 | MGKIIGIDLGTTNSCVAVLDGGKARVLENAEGDRTTPSIIAYTDDETIVGSPAKRQAVTNPTNTFFAIKRLIGRRFKDDEVQRDVNIMPFKIIAADNGDAWVESRGNKMAPPQVSAEILKKMKKTAEDFLGEEVTEAVITVPAYFNDSQRQATKDAGRIAGLDVKRIINEPTAAALAYGIDKKQGDNIVAVYDLGGGTFDISIIEIDSNDGDQTFEVLATNGDTHLGGEDFDNRLINYLADEFKKEQGLDLRKDPLAMQRLKEAAEKAKIELSSTNHTEVNLPYITADATGPKHLVIKITRAKLESLVEDLILRTLEPLKVALADADLSVTDINEVILVGGQTRMPKVQEAVTNFFGKEPRKDVNPDEAVAVGAAIQAGVLSGDVKDVLLLDVTPLSLGIETMGSVMTKLIEKNTTIPTKAQQVFSTADDNQSAVTIHVLQGERKQASANKSLGQFNLDGIEPAQRGQPQIEVMFDIDADGILHVSATDKKTGKKQNITIKASSGLSEEEVAQMVRDAEAHADEDKKFEELVQSRNQADGLVHATKKQVEEAGDALPSEDKEKIQAAMDAVDTAIKGNDKEAIEKATQELIEASAKLMEIAQAKSQAQGGDNADAGKQANATADDVVDAEFEEVKDDKK |
| 1174 | sp|Q8EPW4|DNAK\_OCEIH | MSKIIGIDLGTTNSCVSVMEGGEAVVIPNPEGNRTSPSVVAFKNGERQVGEVAKRQAITNPNTIQSIKRHMGTDYKVKIEEKEYTPQEVSAIILQYIKSYAEDYIGEKVEKAVITVPAYFNDAERQATKDAGKIAGLEVERIINEPTAAALAYGIDKEDQDQTILVYDLGGGTFDVSILDIGDGTFEVVSTAGDNRLGGDDFDQVIIDHMVQEFKKENAIDLSQDKMATQRLKDAAEKAKKDLSGVTQTQISLPFITAGDAGPLHLEMTMSRAKFDELSSDLVERTMQPTRKALSDASLSKSDIDKVILVGGSTRIPAVQEAIKKELGQDPSKGVNPDEVVALGAAIQGGVLQGDVKDVLLLDVTPLSLGIETMGAVTTKLIERNTTIPTSASQTFSTAADNQTAVDIHVLQGEREMASDNKTLGRFQLTDIPPAPRGMPQIEVSFDIDANGIVNVRAKDLGTNKEQSITIKSSSGLSDDEVDRMVKEAEENADADKQRREEVDLRNEADQLIFTTDKTIKDLDDKVSEEDKQKAESAKDELKQALESGDMEQVKAKKDALEEHVQQLSAKLYEQVQQEAQQASGEQGEESGNQDDDVVDADYSEVDDDDKK |
| 1175 | sp|Q044A8|DNAJ\_LACGA | MAQRDYYDVLGVDKNASESDINKAYRKLAKKYHPDLNHEPGAEEKYKEVNEAYEVLHDKQKKAQYDQFGQAGVNGQAGFGGQGYGGFGGQGGYSSQGFGDFGDIFGDIFGSAFGGGRSRVDPTAPQKGQDLDYTMTIDFMDAIKGKKTDITYTRSEVCPTCDGSGAEKGTHPITCDKCHGTGVMTVTRQTPLGVIQQQTTCDKCGGRGTIIKHPCQTCHGKGTIDKKQTLEVKVPAGIDNGQQIRLSGQGEAGKNGGPYGDLYIVFRVKPSKEFRRNGTTIYSEAPISFAQAALGDKIRVNTVHGPVDLTIPAGTQPNTNFKLRGQGVPKINGTGNGDQEVTVKVVIPKKINDKQKEALVDYVKAGGGNISPQEKNFFERLKDKLNGE |
| 1176 | sp|P35514|DNAJ\_LACLA | MNNTEYYERLGVDKNASQDEIKKAYRKMSKKYHPDLNKEEGAEEKYKEVQEAYETLSDEQKRAAYDQYGEAGANGGFGGGGFGGASGFSGFGGGSGGFGGFEDIFSSFFGGGGAQVNPNAPRQGDDLQYRINLKFEEAIFGVEKQVKYNREELCHTCGGSGAKAGTHPETCHKCGGRGQINVVRDTPLGRMQTQVTCDVCNGTGKEIKEKCETCHGSGHEKVAHTVKVTVPAGVETGQKMRLQGQGDAGVNGGPYGDLYVVFQVEASDKFERDGAEIYYKMPMDFVQAALGDEIEVPTVHGNVKLKIPAGTQTGANFRLKGKGAPKLRGSGNGDQYVIINIVTPKNLNQAQKEALQAFAKASGVEVSGSGKKGFFDKFK |
| 1177 | sp|Q2Y6U0|DNAK\_NITMU | MGKIIGIDLGTTNSCVAVMESGKPKVIENSEGARTTPSIVAYTEDGEILVGASAKRQAVTNPKNTLFAVKRLIGRRFNEEMVQRDIKMVPYTIIKADNNDAWIEVRGKKVAPPEVSAQVLMKMKKTAEDYLGEPVTEAVITVPAYFNDSQRQATKDAGRIAGLEVKRIINEPTAAALAFGMDKKEGDRKIAVYDLGGGTFDISIIEIAEVEGEHQFEVLATNGDTFLGGEDFDARIIEYLVDEFKKENGIDLKKDMLALQRLKDSAEKAKIELSSSQQTEVNLPYITADASGPKHLAVRITRAKLESLVEDLITRTVEPCRIAIKDAGIKISDIDDVILVGGQTRMPKVQEKVKEIFAKEPRKDVNPDEAVAVGAAIQGGVLQGAVKDVLLLDVTPLSLGIETLGGVMTKLIQKNTTIPTKANQVFSTADDNQTAVTIHVLQGEREMASGNKSLGQFNLADIPPAPRGMPQIEVTFDIDSNGILHVSAKDKATGKESKIKIQASSGLSEEEVQRMVKDAEAHAEEDHKAMELVTARNQCDAMIHSVQKTMKEHGDKLADEEKSKIESALKEAEDALKSGDKETIEAKTQALAEASHKLAEKMYSQGQGPQAGPGEEPSGQSGGTEKPVEGEVVDAEFEEVKNKK |
| 1178 | sp|A7MIK5|DNAK\_CROS8 | MGKIIGIDLGTTNSCVAIMDGTQARVLENAEGDRTTPSIIAYTQDGETLVGQPAKRQAVTNPQNTLFAIKRLIGRRFQDEEVQRDVSIMPYKIISADNGDAWLDVKGQKMAPPQISAEVLKKMKKTAEDYLGEPVTEAVITVPAYFNDAQRQATKDAGRIAGLEVKRIINEPTAAALAYGLDKETGNRTIAVYDLGGGTFDISIIEIDEVDGEKTFEVLATNGDTHLGGEDFDSRLINYLVEEFKKDQGIDLRNDPLAMQRLKEAAEKAKIELSSAQQTDVNLPYITADATGPKHMNIKVTRAKLESLVEDLVNRSIEPLKVALQDAGLSVSDINDVILVGGQTRMPMVQKKVAEFFGKEPRKDVNPDEAVAIGAAVQGGVLTGDVKDVLLLDVTPLSLGIETMGGVMTPLITKNTTIPTKHSQVFSTAEDNQSAVTIHVLQGERKRAADNKSLGQFNLDGINPAPRGMPQIEVTFDIDADGILHVSAKDKNSGKEQKITIKASSGLNEEEIQKMVREAEANAEADRKFEELVQTRNQADHLVHSTRKQVEEAGDKLPADDKTAIESALSALEASLKGEDKADIEAKMQALAQVSQKLMEIAQQQHAQQQAGSADASANNAKDDDVVDAEFEEVKDKK |
| 1179 | sp|Q8K9Y8|DNAK\_BUCAP | MGKIIGIDLGTTNSCVAIMDGNKPRVLENSEGDRTTPSIIAYTEKGEVLVGQPAKRQAITNPKNTLFAIKRLIGRKFRDDEVQRDIKIMPYSIINSENGDAWIDVKKQKMAPPQISAEVLKKMKKTAEDYLGESIKEAVITVPAYFNDAQRQATKDAGRIAGLEVKRIINEPTAAALAYGLDKGEGNRTIAVYDLGGGTFDISIIEIDDVDKEKTFEVLATNGDTHLGGEDFDSRLINYLVQEFKKEQGIDLRNDSLAMQRLKEAAEKAKIELSSAQQTDVNLPYITADSNGPKHLNIKVTRSKLESLVEDLVMRSIEPLKVALKDAGLSVGDINDVILVGGQTRMPMVQSKVADFFGKEPRKDVNPDEAVAVGAAVQGGVLSGDVKDVLLLDVTPLSLGIETMGGIMTSLINKNTTIPTKHSQVFSTAEDNQSAVTIHILQGERKRALDNKSLGQFNLDGIEPAPRGTAQIEVTFDIDSDGILHVSAKDKKTGKEQKITIKASSGLNEEEIKKMINDAEANSEADRKFEELIQVRNQGDQLIHSIRKQLDENKNQIEKKELEKIKSALDELERSLKGENKSEIEKNIQNLLNISSKLTEINQKKSEENLKKEDTSSESKKDENVVDAEFEEIKDPKK |
| 1180 | sp|Q2YMX6|DEGPL\_BRUA2 | MSRARISNYRKGVAAVALSAALAGAFVVTGPLGALNEARAEAVHVTPPPQAGFADLVEKVRPAVVSVRVKKDVQETSNRGPQFFGPPGFDQLPDGHPLKRFFRDFGMEPRGDSRSDNRRGKANKPRPGHERPVAQGSGFVISEDGYVVTNNHVVSDGDAYTVVLDDGTELDAKLIGADPRTDLAVLKINAPKRKFVYVAFGDDNKVRVGDWVVAVGNPFGLGGTVTSGIVSARGRDIGAGPYDDFIQIDAAVNKGNSGGPAFDLSGEVIGINTAIFSPSGGSVGIAFAIPSSTAKQVVDQLIKKGSVERGWIGVQIQPVTKDIAASLGLAEEKGAIVASPQDDGPAAKAGIKAGDVITAVNGETVQDPRDLARKVANIAPGEKAALTVWRKNKAEEINVTIAAMPNDKGKSGSQSNDNDGGQGETLDSYGLTVVPSEDGKGVVVTDVDPDSDAADRGIRSGDVIVSVNNQTVKTAGDINKAITAAEKSGRKAVLLQLQSNDQSRFVALPINQE |
| 1181 | sp|A5F361|DNAK\_VIBC3 | MGKIIGIDLGTTNSCVAVLDGDKPRVIENAEGERTTPSVIAYTDGETLVGQPAKRQAVTNPQNTLFAIKRLIGRRFEDEEVQRDIKIMPYKIVKADNGDAWVEAKGQKMAAPQVSAEVLKKMKKTAEDFLGEPVTAAVITVPAYFNDAQRQATKDAGRIAGLEVKRIINEPTAAALAYGLDKQGGDRTIAVYDLGGGTFDISIIEIDEVEGEKTFEVLSTNGDTHLGGEDFDNRMINYLVDEFKKDQGIDLRNDPLAMQRLKEAAEKAKIELSSAQQTDVNLPYITADATGPKHMNIKVTRAKLEALVEDLVQRSLEPLKVALADADLSVNDITDVILVGGQTRMPMVQKKVAEFFGKEPRKDVNPDEAVAVGAAVQGGVLAGEVKDVLLLDVTPLSLGIETMGGVMTKLIEKNTTIPTKANQVFSTAEDNQSAVTIHVLQGERKQAMYNKSLGQFNLEGINPAPRGMPQIEVIFDLDADGILHVSAKDKQTGKEQKITIQASGGLSDAEIEKMVQEAEANKEADKKFEELATARNQADQMIHATRKQITEAGEALPADEKAKIETAINELETAKKGEDKAEIDAKVQALMAAAQKLMEIAQQQAQAQGANAGQSSAKEDDVVDAEFEEVNDDKK |
| 1182 | sp|Q00742|DHR15\_WHEAT | MEFQGQHDNPANRVDEYGNPFPLAGAWGERTRSRHRRAVPGPQGRAQDRWILHRSGSSSSSSSSEDDGMGGRRKKGMKEKIKEKLPGGHKDNQQHMATGTGTGGAYGPGTGTGGAYGQQGHTGMAGAGTGTGEKKGIMDKIKEKLPGQH |
| 1183 | sp|Q87WP0|DNAK\_PSESM | MGRIIGIDLGTTNSCVSILENGNVKVIDNAEGTRTTPSIIAYANDGEILVGQSAKRQAVTNPHNTLYAVKRLIGRKFDEQVVQKDIQMVPYKIVKADNGDAWVEVNGQKMAPPQISAEILKKMKKTAEDYLGEAVTEAVITVPAYFNDSQRQATKDAGRIAGLDVKRIINEPTAAALAYGMDKAKGDHTVIVYDLGGGTFDVSVIEIAEVDGEHQFEVLATNGDTFLGGEDFDIRLIDYFVDEFKKESGMSLKGDPLAMQRLKEAAEKAKIELSSSTQTEVNLPYITADATGPKHLVVKISRSKLESLVEDLVQRTIEPCRIALKDAGIDIGKINDVILVGGQTRMPLVQKLVTEFFGKEARKDVNPDEAVAMGAAIQGAVLAGDVKDVLLLDVSPLTLGIETMGGVMTALIEKNTTIPTKKSQVFSTADDNQNAVTIHVLQGERKQAGQNKSLGKFDLAEIPPAPRGVPQIEVTFDIDANGILHVGAKDKATGKQQSIVIKANSGLSEEEIQQMVRDAEVNSEEDRKFEELASARNQGDALVHSTRKMIADAGDKVTAEEKTAVEAALVALEAAIKGDDKAVIEAKVEELSKVSAPIAQKMYAEQAENPEAAAKPAEETAKADDVVDAEFEEVKDHK |
| 1184 | sp|Q2NVZ1|DNAK\_SODGM | MGKIIGIDLGTTNSCIAIIEGSKPRVLENSEGDRTTPSIIAYTQDGEILVGQPAKRQSVTNPQNTLFAIKRLIGRRYQDEEVQRDVSIMPYKIVAADNGDAWLEVKGQKMAPPQISAEILKKMKKTAEDYLGEPVTEAVITVPAYFNDTQRQATKDAGRIAGLDVKRIINEPTAAALAYGLDKETGNRTIAVYDLGGGTFDISIIEIDDVDGEKTFEVLATNGDTHLGGEDFDSRLINYLVDEFKKDQGIDLRNDPLAMQRLKEAAEKAKIELSSAQQTDVNLPYITADGSGPKHMNLKVTRAKLESLVEELVNRTLEPLKVALKDAGLSVSDIKDVILVGGQTRMPLVQKKVTDFFGKEPRKDVNPDEAVAIGAAVQGGVLAGDVKDVLLLDVTPLSLGIETMGGVMTPLIAKNTTIPTKHSQVFSTAEDNQSAVTIHVLQGERKRSGDNKSLGQFNLDGISPAMRGTPQIEVTFDIDADGILHVSAKDKNSGREQKITIKASSGLNEEEIQKMVQEAEANAESDRKFEALVQTRNQADHLLHSTRKQLEDAGDKLPADDKTAIEDALKNLDTVLKGEDKADIEAKMQALIQVSGKLLEVAQQQAQAAGDGGADGSAKADDDVVDAEFEEVKDKK |
| 1185 | sp|Q6EP77|DRE1G\_ORYSJ | MDVSAALSSDYSSGTPSPVAADADDGSSAYMTVSSAPPKRRAGRTKFKETRHPVFKGVRRRNPGRWVCEVREPHGKQRIWLGTFETAEMAARAHDVAALALRGRAACLNFADSPRRLRVPPIGASHDDIRRAAAEAAEAFRPPPDESNAATEVAAAASGATNSNAEQFASHPYYEVMDDGLDLGMQGYLDMAQGMLIDPPPMAGDPAVGSGEDDNDGEVQLWSY |
| 1186 | sp|Q9SG86|BZP28\_ARATH | MTESTSVVAPPPEIPNLNPSMFSESDLFSIPPLDPLFLSDSDPISMDAPISDLDFLLDDENGDFADFDFSFDNSDDFFDFDLSEPAVVIPEEIGNNRSNLDSSENRSGDGGLEGRSESVHSQVSSQGSKTFVSDTVDASSSPESSNHQKSSVSKRKKENGDSSGELRSCKYQKSDDKSVATNNEGDDDDDKRKLIRQIRNRESAQLSRLRKKQQTEELERKVKSMNATIAELNGKIAYVMAENVALRQQMAVASGAPPMNPYMAAPPLPYQWMPYPPYPVRGYGSQTPLVPIPKLNPKPVSSCRPKKAESKKNEGKSKLKKVASISFIGILFFVFLFGTLVPFMNVNFGGERGSFGGLSKYDGHRYYDEHKGRVLMVGDGSDVRRNSGISEGNIHSSRISHGERDSCGGVDYNAHPKVEGRPSSLSNASDPLFASLYVPRNDGLVKIDGNLIIHSVLASEKARGLGKKNITETVKTKEPDLTIPGALSSALAVPGVRGNAAMLPHSTALSSEGKRLHQWFHEGGSGPLMDYSMCTEVFQFDIAPGAIVPSSVSSISAEHLQNVTTHGKRMKNRRILEGLPVSLVASELNITGTQPNKDAQNKTFNGNTNKPTSSSSMVVSVLLDPREVVDSETDRVVPPNPKSLSRIFVVVLLDSVKYVTYSCVLPRSGLHLVAT |
| 1187 | sp|Q0JHF1|BZP12\_ORYSJ | MMASRVMASSSPSHTASDLARFAAGRGGGGSAGLGSMNVEEILRGIYADMPTPALPLVGGDRPMSPLPAPDVAAAPRTAEEVWKEITGAGVAAAAGGVVPPAAAAAAAPAVVAGAGAGTGAEMTLEDFLAREGAVKEDEAVVTDPSAAKGQVVMGFLNGAEVTGGVTGGRSRKRHLMDPMDRAAMQRQKRMIKNRESAARSRERKQAYIAELESLVTQLEEENAKMFKEQEEQHQKRLKELKEMVVPVIIRKTSARDLRRTNSMEW |
| 1188 | sp|P0CU44|CAHS4\_HYPDU | MSNYQQESSYQYSDRSNNGQQQEQQEKKEVEHSSYTHTDVKVNMPNLIAPFISSSAGLAQELVGEGFQASVSRITGASGELTVIDTEAETEEARRDLEAKAREQELLSRQFEKELERKTEAYRKQQEVETEKIRKELEKQHLRDVEFRKELMEQTIENQKRQIDLEARYAKKELERERNKVKRVLERSKFHTDIQVNMEAAAGSTHSGSSSVAVSESEKFQTNN |
| 1189 | sp|Q37683|CH60\_TRYBB | MFRCVVRFGAKDIRFGTEARQSMLKGVQRAVEAVATTLGPKGRNVIIEQSYGAPKITKDGVTVAKSIEFKDPFENMGAQLVRQVCNKTNDLAGDGTTTSAVLVASIFSEGIKSIATGTNPIDMKRGMDRAVEVILKNIESQSRTVTNTENVVQVATISANGDVELGKLIGEAMEKVGKDGVITTQDGKTLTTELEVVEGMSVDRGYISPYFVTDAKTQKAELEDAFVLVSAKKLNNIHTILPVLNHVVRSGRPLLIIADDVESEALTTMIFNKLQGKLKIACVKAPGFGDNKAAMLQDIAIFSGACVVGEEGSGVELDAEKFEASILGSVKKATITKDDTVLLNGGGDVAMMKERVDLVRGLIERETSDYNREKLQERLAKLSGGVAVIRVGGASEVEVNEKKDRITDALCSTRAAVQEGIVPGGGPALLRASKALDGLLQDQSLTADQRTGVQIIRNAVRLPAHRIVANAGREGAVVVEKVLENTDAAVGYDAQLDRYVNMFEAGIIDPARVVRVALTDAASVASLMMTAEAAVVDLPKDDAPAAGGMGGMGGMGGMDGMY |
| 1190 | sp|Q9DED4|CIRBB\_XENLA | MSDEGKLFIGGLNFDTNEESLEQVFSKYGQISEVVVVKDRETKRSRGFGFVTFENPDDAKDAMMAMNGKAVDGRQIRVDQAGKSSGDRRGGYRGGSSGGRGFFRGGRGRGGGDRGYGSSRFDNRSGGYGGSSGSRDYYSSGRSQGSYGDRAGGSYRDSYDSYATHE |
| 1191 | sp|P74459|CLPB1\_SYNY3 | MQPTDPTKFTEQAWDAIVKSQEVARRYKNTNLEVEHILLALLEQDMGLAARIFQRAAVDGEGLRQQLEIFTNRQPKQAYVEQLYLGRSLDVMLDRADAARSSWEDKFISVEHLLVGFAEDDRVGRKTLRAFNLDPQDLELAIKAIRGSQKVTEPNQEEKYEALDKYGRDLTEQARQGKLDPVIGRDEEIRRVIQVLSRRSKNNPVLIGEPGVGKTAIAEGLAQRIINGDVPESLKNRQLISLDMGSLIAGAKYRGEFEERLRSVMKEVTNSDGQIILFIDEVHTVVGAGGREGSGSMDAGNLLKPMLARGELRCIGATTLDEYRKNIEKDPALERRFQQVYVKQPSVDDTISILRGLKEKYEVHHGVKITDSALVAAATLSHRYIQDRFLPDKAIDLVDEAAARLKMEITSKPVELEDIDRRLMQLQMEKLSLEGEEKRPGLGADKSSKERLEKIQQEITELEGQQQELSGQWLSEKQMLEEINTLKEKEQELRLQVEKAERATDWEKAAKIKYGELEVLQHDIEEKESKLLEIQGSGNTLLREQVTESDIAEIVAGWTGIPMNRLMETERQKLLQLEGHLHQRVIGQKEAVAAVSAAIRRARAGMKDPSRPIGSFLFMGPTGVGKTELARALAGFLFDSEEAMVRIDMSEYMEKHAVSRLIGAPPGYVGYEEGGQLSEAVRRRPYSVVLLDEVEKAHLDVFNILLQVLDDGRITDSQGRVVDFRNTIIVMTSNIGSDHILSLSADDADYDKMQKQVLQSLRKHFRPEFLNRIDDLIIFHTLKRDELRRIVVLQIKRIEKLLDEQKITLSLSDAALDHIVSAGYDPTYGARPLKRAIQRQLENPIATKILENTFVAGDKILIDCVDGQLIFDKEIEPTTLPEEPEENITAVEVEVLSS |
| 1192 | sp|Q826F2|CLPB2\_STRAW | MDMNRLTQKSQEALQEAQTAAGRMGHTEVDGEHLLLALLDQEDGLIPRLLQQAGTEPKELRAAVREELSHRPKATGPGAAPGQVFVTQRLARLLDAAEREAKRLKDEYVSVEHLLLALAEESSSTAAGLLLKQAGITRDSFLSALTQVRGNQRVTSANPEVAYEALEKYGRDLVLEARSGRLDPVIGRDAEIRRVTQILSRKTKNNPVLIGDPGVGKTAIVEGLAQRIVRGDVPEGLRDKTVFALDMGSLVAGAKYRGEFEERLKAVLSEVKAAEGRILLFVDELHTVVGAGAAEGAMDAGNMLKPMLARGELHMIGATTLDEYRKHIEKDAALERRFQQVLVDEPSVEDTISILRGLRERLEVFHGVKIQDTALVSAATLSHRYITDRFLPDKAIDLVDEACARLRTEIDSMPAELDEITRRVTRLEIEEAALSKESDPASKTRLEELRRELADLRGEADAKHAQWEAERQAIRRVQELRQELEQVRHEAEEAERAYDLNRAAELRYGRLQDLERRLAAEEEQLAAKQGENRLLREVVTEEEIAEIVAAWTGIPVARLQEGEREKLLRLDEILRERVIGQDEAVKLVTDAIIRARSGIRDPRRPIGSFIFLGPTGVGKTELAKTLARTLFDSEENMVRLDMSEYQERHTVSRLMGAPPGYVGYEEGGQLTEAVRRKPYSVVLFDEIEKAHTDVFNTLLQILDDGRITDAQGRTVDFRNTVIIMTSNIGSEHLLDGATAEGEIKPDARALVMGELRGHFRPEFLNRVDDIVLFKPLGERQIERIVELQFDELRQRLAERRITVELTDAGREVIAHQGYDPVYGARPLRRYISHEVETLVGRALLRGDVQDGATVRVDAEHGELVVTYDQPEDVKGAWAA |
| 1193 | sp|P0DA49|CSPA\_STRPQ | MAQGTVKWFNAEKGFGFISTENGQDVFAHFSAIQTNGFKTLEEGQKVAFDVEEGQRGPQAVNITKLA |
| 1194 | sp|A4PBQ1|CRJ38\_CRYJA | MAKVSDLALLLVAGMAISLYIQETGAVKFDIKNQCGYTVWAAGLPGGGQQLTQGQTWTVNLAAGTQSARFWGRTGCSFDASGKGTCQTGDCGGQLSCTVSGAVPATLAEYTQSDQDYYDVSLVDGFNIPLSINPTNAQCTAPACKADVNAVCPAELKVDGGCKSACAAFQTDQYCCTGTYANSCPATNYSMIFKNQCPQAYSYPKDDTATFACPSGTDYSIVFCP |
| 1195 | sp|Q8E298|DNAJ\_STRA5 | MNNTEFYDRLGVSKDASQDEIKKAYRRMSKKYHPDINKETGAEEKYKEVQEAYETLSDTQKRAAYDQYGAAGANGGFGGFDGGGFGGFDGGGFGGFEDIFSSFFGGGGMRNPNAPRQGDDLQYRVNLSFEEAIFGAEKEVSYNRESSCHTCSGSGAKPGTSPVTCQKCHGSGVINVDTQTPLGTMRRQVTCDVCQGSGQEIKEKCPTCHGTGHEKKTHKVSVKIPAGVETGQQIRLTGQGEAGFNGGPYGDLFVIINVLPSQQFERNGSTIYYTLNISFVQAALGDTIDIPTVHGAVEMSIPAGTQTGKTFRLRGKGAPKLRGGGQGDQHVTVNIVTPTKLNDAQKEALHAFAEASGDKMVHPKKKGFFDKVKDALDVD |
| 1196 | sp|Q8DKR7|DNAJ\_THEEB | MARDFYEILGVSRSADAEELKRAYRRLARKYHPDVNKEPGAEEKFKEINRAYEVLSDPQARANYDRFGEAGVSGVGAAGFSDFGIGDMGGFADIFETFFGGFTTSSRRQQGPTRGEDLRYDLKLEFREAVFGGEKEIRINHLETCKTCQGTGAKPGTRPVTCSTCGGVGQVRRSARTPFGSFTQLTTCPTCGGSGVVIEDRCESCGGQGHIQVSKKLKITIPAGVDNGTRLRVSGEGDAGLRGGPPGDLYVYLFVQPDPEFQREGNNILSRIKISYLQAILGCRISVSTVDGEAELKIPAGTQPGTVLVLEGRGVPRVGNPVARGDHLITVDVEIPTHITHEERELLEKLAKIRGERLGKGGLEGFLGSLFGG |
| 1197 | sp|Q8YW74|DNAK2\_NOSS1 | MAKVVGIDLGTTNSCVAVMEGGKPTVIANAEGFRTTPSVVAFAKNGDTLVGQIAKRQAVMNPENTFYSVKRFIGRRYDEVTNEATEVSYKVLSSGGNVKVDSPGAGKQFAPEEISAKVLRKLVEDASKYLGETVTQAVITVPAYFNDSQRQATKDAGKIAGIEVMRIINEPTAASLAYGFDKKSNETILVFDLGGGTFDVSVLEVGDGVFEVLATSGDTHLGGDDFDKKIVDFLAEQFRKDEGIDLRKDKQALQRLTEAAEKAKIELSSVTQAEINLPFITATQDGPKHLDMTLTRAKFEELCADLIDRCRIPVEQALRDAKLKKENIDEVVLVGGSTRIPAVQQLVKNLLGREPNQTVNPDEVVAVGAAIQAGVLGGEVTGILLLDVTPLSLGVETLGGVMTKIIPRNTTIPTKKSEVFSTAVDGQTNVEIHVLQGEREFANDNKSLGTFRLDGIPPAPRGVPQIEVVFDIDANGILNVTAKDKGTGKEQSISITGASTLDKTDIDRMVREAEQNASSDKERREKIERKNQADSLAYQAEKQLQELGDKVPEADKTKVEGLVKDLREAVAKEDDEQIKKLTPELQQALFAVGSNIYQQAGGGAAPGAAPQDGGTTSSDGGDDVIDADFTETK |
| 1198 | sp|Q7VQL4|DNAK\_BLOFL | MGKIIGVDLGTTNSCVAIIESNKPRVLENSEGDRTTPSVVAYTQDGEILVGQPAKRQSVTNPKNTLFAIKRLIGRRFQDQEVQRDVKIMPYKIISSNNGDAWLDIKGQKIAPPQISAEILKKMKKTAEDYLGENVTEAVITVPAYFNDAQRQATKDAGRIAGLEVKRIINEPTAAALAYGLDKEAHGNRIIAVYDLGGGTFDISIIEIDNVDGEKTFEVLATNGDTHLGGEDFDSLLINYLVEEFKKDQGIDLYNDPLAMQRLKESAEKSKIELSTSQQTDVNLPYITADSTGPKHMNLRVTRAKLESLVEDLVNRTLDPLKTALKDANLSVSSVNDVILVGGQTRMPLVQKKVSEFFNKEPRKDVNPDEAVAIGAAVQGGVLSGDVKDVLLLDVTPLSLGIETMGGVMTSLIAKNTTIPTKHSQVFSTAEDNQSAVTIHVLQGERKRASDNKSLGQFNLDGIAPAMRGIPQIEVTFDIDADGILHVSAKDKNSGREQKITIKASSGLNEEEIKKMVQEAEANAESDRKFEELVQIRNQADHLLHSTRKQLKEVGDRISLDDKNSIEQSLKELELVMKNENKGDIESKVQELIKVSGKLLEASSQKYKEKVNDSKSDLNKDKSETDASGDVVDAEFEEIKNKK |
| 1199 | sp|P50019|DNAK\_AGRFC | MAKVIGIDLGTTNSCVAVMDGKDTKVIENAEGARTTPSMVAFSDDGERLVGQPAKRQAVTNPTNTLFAVKRLIGRRYEDPTVEKDKALVPFEIVKGDNGDAWVKAQDKNYSPSQISAMILQKMKETAESYLGEKVEKAVITVPAYFNDAQRQATKDAGRIAGLDVLRIINEPTAAALAYGLDKKEGKTIAVYDLGGGTFDISVLEIGDGVFEVKSTNGDTFLGGEDFDMRLVEYLAGEFKKDQGIDLKNDKLALQRLKEAAEKAKIELSSSQQTEINLPFITADASGPKHLTLKLTRAKFESLVDDLVQRTVAPCKAALKDAGVTAAEIDEVVLVGGMSRMPKVQEVVKQLFGKEPHKGVNPDEVVAMGAAIQAGVLQGDVKDVLLLDVTPLSLGIETLGGVFTRLIDRNTTIPTKKSQTFSTAEDNQSAVTIRVSQGEREMAQDNKLLGQFDLVGLPPSPRGVPQIEVTFDIDANGIVQVSAKDKGTGKEQQIRIQASGGLSDADIEKMVKDAEANAEADKKRRAGVEAKNQAESLIHSTEKSVKEYGDKVSETDRKAIEDAIASLKTAVEAAEPDADDIQAKTQTLMEVSMKLGQAIYEAQQAEAGDASAEGKDDVVDADYEEIKDDKKSA |
| 1200 | sp|Q47XI6|DNAK2\_COLP3 | MGKIIGIDLGTTNSCVAVLDGDSVRVIENAEGDRTTPSIIGYTAEGETLVGQPAKRQSVTNPENTLYAIKRLIGRRFEDKETQRDIDIMPFGIVKADNGDAWVQVKGEKIAPPQVSAEVLKKMKKTAEDFLGETVTEAVITVPAYFNDSQRQATKDAGRIAGLEVKRIINEPTAAALAYGMDKQEGDKVVAVYDLGGGTFDISIIEIDEMDGEHTFEVLATNGDTHLGGEDFDNRLINYLVAEFKKDQGMDLTSDPLAMQRLKEAAEKAKCELSSAQQTDVNLPYITADGSGPKHMNIKVTRAKLESLVEDMVKATLEPLKQALKDADLSVSKIDDVILVGGQSRMPLVQKTVTDFFGKEPRKDVNPDEAVASGAAIQAGVLSGDVTDVLLLDVTPLSLGIETMGGVMTKVIDKNTTIPTKQSQTFSTADDNQAAVTVHVCQGERKQASANKSLGQFNLEGIEPAQRGTPQIEVTFDIDADGILHVTAKDKNTGKEQKITIKASSGLSDEEVEQMVRDAEANADADAKFEELVTARNQADGMIHATRKQVEEAGEELPSEDKEKIEAALTELEEAVKGDDKEVIEAKTQALMEASAKLMEIAQAKEQAQSAPEGAQEADAAPADDVVDAEFEEVKDDK |
| 1201 | sp|Q6NG14|DNAJ1\_CORDI | MARDYYAILGVERDATDNEIKKAYRKLARKYHPDVNDTEEAAEKFSKISIAQEVLLDAEKRRIVDMGGDPMAQGGGDAGYGAGGGLGDIFEAFFGGGGGSRGPRSRVQPGSDALLRTTLTLEEAYLGTKKPITIDTAILCDRCEGTGSKSKSKPNVCSTCNGSGEIQQMQRSFLGNVMTSSPCPTCRGTGEVIPDPCDKCGGDGRVRTQRDLIVNVPAGIADGMRIRMAGQGEVGPGGGPAGDLYIEVMMQQHPVFQREGNDLHMSVHVPMVDAALGATTSVESLSGDAIDFEIPAGVQPAETIVIEGKGMPQLRGEGFGNMIAHVDVSIPTQLDEKSKELLNKLRDHRSDESSVRTADDSDDSLFGRLRNRFRR |
| 1202 | sp|A1TLH9|DNAK\_ACIAC | MGKIIGIDLGTTNSCVAIMEGNTTRVIENSEGARTTPSIIAYQEDGEILVGASAKRQAVTNPKNTIYAAKRLIGRKFEEKEVQKDIDLMPYTIAKADNGDAWVEVRGNKLAPPQISAEVLRKMKKTAEDYLGEPVTEAVITVPAYFNDAQRQATKDAGRIAGLDVKRIINEPTAAALAFGLDKQEKGDRKIAVYDLGGGTFDVSIIEIADVDGEKQFEVLSTNGDTFLGGEDFDQRIIDYIIAEFKKEQGVDLSKDVLALQRLKEAAEKAKIELSSSAATDINLPYITADASGPKHLNIKLTRAKLESLVEELIERTIAPCRTAIKDAGISVSDIHDVILVGGMTRMPKVQEKVKEFFGKEPRKDVNPDEAVAVGAAIQGQVLSGDRKDVLLLDVTPLSLGIETLGGVMTKMITKNTTIPTKFAQTFSTADDNQPAVTIKVFQGEREIASANKLLGEFNLEGIPPAGRGVPQIEVTFDIDANGILHVSAKDKGTGKENKITIKANSGLSEDEIQKMVKDAELNAADDKKKLELVQARNQGEAAVHSVTKSLSEHGDKLEAGEKETIEAAVKDLEAALKGEDKAAIEEKTNALMAASQKLGEKMYADAQAAAAAAGAGAEAGPAAGQAASSAGGASSAPHDDNVVDAEVKEVKKG |
| 1203 | sp|Q3J7D8|DNAK\_NITOC | MGKIIGIDLGTTNSCVALMEGNKPRVIENAEGDRTTPSVVAFTKEGETLVGQSAKRQAITNPQNTLYAIKRLIGRRFDEEVVQRDIKMVPYKIVKADNGDAWVEATGKKMAPPEVSANVLRKMKKTAEDYLGEEVEAAVITVPAYFNDSQRQATKDAGRIAGLEVKRIINEPTAAALAYGLDKKRGDQKIAVYDLGGGTFDVSIIEIAEVEGEHQFEVLSTNGDTFLGGEDFDKRIIDYIAEEFKKEQSIDLRGDPLAMQRLKDAAEKAKIELSSSQQTEVNLPYVTADASGPKHLNVRITRAKLESLVEDLINRTIGPCKTALQDAKLSASDIDEVILVGGQTRMPKVQEAAKEFFGKEPRKDVNPDEAVAVGAAIQAGVLGGEVKEVLLLDVTPLSLGIETLGGVMTKLIEKNTTIPTRKTQVFSTAEDNQTAVTVHVLQGEREQAVGNKSLGRFDLVGIPPAHRGMPQIEVTFDIDANGILNVSAKDKATGKEQSIVIKASSGLAEGEIERMVSDAEAHVEEDRKFRELVDLRNQGDNLIHATEKSMEELGDKLEANEKSEIEKTIGELKTAMKEDNKEVIEARIKDLTDASAKMAERLYTQQAEEPQPQKEEGKAAEEDVVDAEFEEVKEDKNKAS |
| 1204 | sp|Q5YZX0|DNAJ1\_NOCFA | MARDYYGLLGVARNATDQEIKRAYRKLARELHPDVNPDEAAQARFKEVSTAYEVLSDPEKRRIVDMGGDPLESGGGAGGFSGAGFGGLGDVFEAFFGGMSGAGGGQRKPRGRVQPGADSLLRTRLSLAECAVGVTKHLTVDTAVLCDACHGSGTHGNSKPVRCETCGGAGEVQSVQRSFLGQVLTSRPCPTCRGAGETIPDPCHKCGGDGRVRARREIAAPIPAGVANGMRVRLAAQGEVGPGGGPPGDLYVEIVEQPHDVFVRDGDDLHCTIRVPMVDAALGTTVVIDTILDGPTELTIPPGTQPGEVSVLRGHGMPKLRSGVRGDLLAHLDIVIPTKLDGKQTELLRKYKALRDRDRAEVMSAQSEHNSGLFARLRASFSGR |
| 1205 | sp|Q65U54|DNAJ\_MANSM | MAKQDYYETLGVQKGADEKEIKRAYKRLAMKYHPDRTNGDKAAEEKFKEVNEAYEILMDKEKRAAYDQYGHAAFEQGGFGGGAGGFGGGFGGFGGFEDIFSEMFGGGASRQRVVRGEDLRYDIEITLEEAVRGTTKDIKINTLAACDHCDGSGAEKGSKVETCPTCHGHGRVRRQQGFFMTETTCPTCQGSGKKIEKPCKHCHGDGRVHKKKNLSVKIPAGVDTGNQLRLSGEGAAGENGAPAGDLYVVIHVKDHHIFERDGSNLYCEVPISFTMAALGGEIEVPTLDGRVKLKIPAETQTGKLFRMRGKGVTSTRAGYAGDLICKIIVETPVKLNEEQKELLRKFEESLEGQSKQRPKSSSFLDGVKKFFDNLGK |
| 1206 | sp|B4TVZ6|DNAJ\_SALSV | MAKRDYYEILGVSKTAEEREIKKAYKRLAMKYHPDRNQGDKEAEAKFKEIKEAYEVLTDAQKRAAYDQYGHAAFEQGGMGGGFGGGFNGGADFSDIFGDVFGDIFGGGRGRQRAARGADLRYNMDLTLEEAVRGVTKEIRIPTLEECDVCHGSGAKAGTQPQTCPTCHGSGQVQMRQGFFAVQQTCPHCQGRGTLIKDPCHKCHGHGRVEKSKTLSVKIPAGVDTGDRIRLAGEGEAGEHGAPAGDLYVQVQVKQHPIFEREGNNLYCEVPINFAMAALGGEIEVPTLDGRVMLKVPSETQTGKLFRMRGKGVKSVRGGAQGDLLCRVVVETPVGLSEKQKQLLKDLQESFGGPTGEKNSPRSKSFFDGVKKFFDDLTR |
| 1207 | sp|A0Q1R4|DNAK\_CLONN | MGKIIGIDLGTTNSCVSVMEGGNPVVIPNAEGSRTTPSVVAFKEDGERLVGQVAKRQAITNPDKTIISIKRHMGTDYRVNVDGKDYSPEEISAMILQKLKADAEAYLGETVTEAVITVPAYFNDSERQATKNAGKIAGLDVKRIINEPTAASLAYGLDKMDKSHKIFVYDLGGGTFDVSILELGDGVFEVKATNGNTKLGGDDFDQKIMDYIAETFKAENGIDLRNDKMALQRLKEAAEKAKIELSSSTKTNINLPFITADATGPKHIDMDLTRAKFEELSADLVQATIEPMKKALADAELTINDIDKVVLVGGSTRIPAVQEAVQKFTGKEPSKGVNPDEVVAMGAAVQAGVLTGEVKDILLLDVTPLTLGIETMGGVATPLIERNTTIPTRKSQIFSTAADNQTSVDIHIVQGERKMAGDNKTLGRFQLSGIAPAPRGIPQIEVSFDIDANGILNVSAKDKGTGKEANITITASTNLSDDEIDKAVKEAEKFAAEDEKRKESVEVKNNADSALYQTEKALKDLGDKVEEADKKNVEEKLEALRQVKDGEDLEAIKKATTELTEEFYKVSSKLYQQAGAEAQQGAQGTQGADMGGNAQGKDDDNVVDADFKVEDDK |
| 1208 | sp|Q9PQ82|DNAJ\_UREPA | MAKRDYYEILGVSKSATPEEIKAAFRKLAKEHHPDRNKSADDTLFKEINEAYEVLSDSKKRAQYDQFGHDGPQGFSSASGFSGFSGGFGGVDFDINDIFGSFFNNASSSHNSSNQYETYDIHLRLHLDFMEAVNGISKNINYDRKITCHKCQGTGAKDPKDVKICTKCHGRGTSIENVHSLFGTIQQEVECHECEGTGKVASSKCEQCYGKKVINERVNLTVEIPAGTREGEKLLVSKKGNIVNNQEFDLYLHISVKPSKYFALDGLDIYSETYIDPIKAIVGGIIEVVTINGIKTIEIPSNTPEGKKFRISGSGIVNKKSNIFGKKNGDFYTTIRYAKPVELSKDEIAYLKNISTRTNQNVEYYKNKVLKEISK |
| 1209 | sp|C6E643|DNAK\_GEOSM | MSRVIGIDLGTTNSCVAVMEGGEPVVIANAEGSRTTPSMIAFAESGERLVGQQAKRQAVTNPENTLYAIKRLIGRKFDTEAVKKDIAISPFKIVKADNSDAWVEVRGQKYSPPEISAMVLQKMKKTAEDYLGETVTDAVITVPAYFDDSQRQATKDAGKIAGLNVLRIINEPTAAALAYGLDKKKDEKIAVFDLGGGTFDVSILELGEGVFEVKSTNGDTFLGGEDFDQKIIDHIADEFKKDQGIDLRGDKMALQRLKEAGEKAKCELSTSLETDINLPFITADASGPKHLTMKLTRAKLESICAELIANLEGPCRTALKDAGLSASDIDEVILVGGMTRMPIVQKKVQDIFGKVPNRGVNPDEVVAIGAAIQGGVLRGDVKDVLLLDVTPLSLGIETLGGVLTKLIDKNSTIPCRKSQVFSTAADNQPAVSIHVLQGEREMAADNKTLGNFELSGIPSAPRGVPQIEVTFDIDANGIVHVSAKDLGTGKEQSIRITASSGLSKEEVEKMVREAEAHAADDKKKRELIEAKNQADNLIYQTEKSLTEFGDKIDASEKQKIEEGVAALKKALEGSDADEIKKASDSLMQASHKLAEAVYAKTQGAGAEGSEQPHGEQEAGGAAKGETVVDADFEEVKDDKK |
| 1210 | sp|Q9QYJ3|DNJB1\_MOUSE | MGKDYYQTLGLARGASDDEIKRAYRRQALRYHPDKNKEPGAEEKFKEIAEAYDVLSDPRKREIFDRYGEEGLKGGSPSGGSSGGANGTSFSYTFHGDPHAMFAEFFGGRNPFDTFFGQRNGEEGMDIDDTFSSFPMGMGGFTNMNFGRSRPSQEPTRKKQDPPVTHDLRVSLEEIYSGCTKKMKISHKRLNPDGKSIRNEDKILTIEVKRGWKEGTKITFPKEGDQTSNNIPADIVFVLKDKPHNIFKRDGSDVIYPARISLREALCGCTVNVPTLDGRTIPVVFKDVIRPGMRRKVPGEGLPLPKTPEKRGDLVIEFEVIFPERIPVSSRTILEQVLPI |
| 1211 | sp|B1YKT0|DNAJ\_EXIS2 | MEKRDYYEVLGVARDASAAEIKRAYRKLARTYHPDVNKEADADQKFKELSEAYEVLSDDNQRARYDQFGHQDPSQGGGGFGGAEGFGDIFDMFFGGGRRQDPNAPRKGQDLQYVEEIDFMEAFSGVEKVITIPVEEDCGTCHGSGAKPGTHPETCKRCGGSGHINVEQNTMFGRVVNQTTCSTCHGRGQIVKEPCETCRGAGRVRKNKDVRVKIPAGIDNGQQIRLAGKGEAGVNGGPFGDLYVVVRVREHELFERVDDHIVMDMPLTFAQATLGDEIEVPTVHGKVSLKIPAGTQTGSRFRLRGKGMPNVRSGHHGDQYVNVVIITPKNLTDRQKELLREFNEISDEKGVEEQHEGVFSRIKTFFTG |
| 1212 | sp|Q3KLV7|DNAK\_CHLTA | MSEKRKSNKIIGIDLGTTNSCVSVMEGGQPKVIASSEGTRTTPSIVAFKGGETLVGIPAKRQAVTNPEKTLASTKRFIGRKFSEVESEIKTVPYKVAPNSKGDAVFDVEQKLYTPEEIGAQILMKMKETAEAYLGETVTEAVITVPAYFNDSQRASTKDAGRIAGLDVKRIIPEPTAAALAYGIDKEGDKKIAVFDLGGGTFDISILEIGDGVFEVLSTNGDTHLGGDDFDGVIINWMLDEFKKQEGIDLSKDNMALQRLKDAAEKAKIELSGVSSTEINQPFITIDANGPKHLALTLTRAQFEHLASSLIERTKQPCAQALKDAKLSASDIDDVLLVGGMSRMPAVQAVVKEIFGKEPNKGVNPDEVVAIGAAIQGGVLGGEVKDVLLLDVIPLSLGIETLGGVMTPLVERNTTIPTQKKQIFSTAADNQPAVTIVVLQGERPMAKDNKEIGRFDLTDIPPAPRGHPQIEVTFDIDANGILHVSAKDAASGREQKIRIEASSGLKEDEIQQMIRDAELHKEEDKQRKEASDVKNEADGMIFRAEKAVKDYHDKIPAELVKEIEEHIEKVRQAIKEDASTTAIKAASDELSTRMQKIGEAMQAQSASAAASSAANAQGGPNINSEDLKKHSFSTRPPAGGSASSTDNIEDADVEIVDKPE |
| 1213 | sp|Q5B998|DHOM\_EMENI | MSAPIYLGVIGVGGVGTAFLNQLARLPNAPKLILLARSSQTLLSPTPSYSPTIPAAEWKTAVETPSLTKSGALTPDEIATYLASAPGRSILVDNTSDPALASNYPVFLRKGISVVTPNKKGFSSDLSLWKEIFAAAAEGKALVYHESTVGAGLPVISTLKDLVNTGDEVTRIEGVFSGTLSFLFNTFAPASGSSSAKWSEVVSQAKELGYTEPDPRDDLNGMDVARKLTILARIAGLDVQSPDSFPIESLIPAELTSLPSSADGIAQFMARLPEFDSQMAAIKEGAEKAGKVVRYVGSVDVAKKEVRVGLQQFDKDSAIAGLKGSDNIISFYTRRYGSNPLIVQGAGAGGDVTAMGVTADLLKVIERL |
| 1214 | sp|P86175|DNAK\_ANASL | QAVMNPENTFYSVKRIINEPTAASLAYGFDKK |
| 1215 | sp|Q5P1H5|DNAK\_AROAE | MGKIIGIDLGTTNSCVAVMEGGKPKVIENSEGARTTPSVVAYAEDGEILTGAPAKRQAVTNAKNTLFAVKRLIGRRFEEKEVQKDIDLMPYTICKADNSDAWVEVRGKKIAPPQVSAEVLRKMKKTAEDYLGEEVTEAVITVPAYFNDSQRQATKDAGRIAGLEVKRIINEPTAAALAFGMDKKPGDSKIAVYDLGGGTFDISIIEIADIDGEHQFEVLATNGDTFLGGEDFDQRLIDYIVTEFKKEQGVDLKKDVLALQRLKEAAEKAKIELSSGQQTEVNLPYITADASGPKHLAVKITRAKFESLVEDLVQRTIEPCRVALKDAGLKINDIDDVILVGGQSRMPKVQEKVKEFFGKEARRDVNPDEAVAVGAAIQGGVLQGEVKDVLLLDVTPLSLGIETLGGVMTKLIQKNTTVPTKASQVFSTADDNQSAVTIHVLQGEREMASGNKSLGQFNLSDIPPAPRGMPQIEVTFDIDANGILHVSAKDKATGKENKIKIQANSGLSEDEIQRMVQDAAAHAEEDKKAHELVDIRNQCDALVHSVKKSLTEYGDKISADEKEKIEQAMKDAEEALKGNDKDTIEARMQALATASQKLGEQMYAQSQGAEGGATDEAAGGGSTGGSKAADADVVDAEFTEVKDKK |
| 1216 | sp|A0K1L3|DNAK\_ARTS2 | MSRAVGIDLGTTNSVVSVLEGGEPTVIANAEGGRTTPSVVAFSKSGEVLVGEIAKRQAVNNIDRTIASVKRHMGTDWNVAIDDKKYTAQEISARILMKLKNDAESYLGEKVTDAVVTVPAYFNDAQRQATKEAGEIAGLNVLRIVNEPTAAALAYGLDKGKEDELILVFDLGGGTFDVSLLEVGKDEDNFSTIQVRSTAGDNHLGGDDWDQRVVNYLLNQLKVKGIDLSKDKIALQRLREAAEQAKKELSSSTSTNVSLQYLSVTPDGPVHLDEQLTRAKFQDLTKDLLDRTKKPFQDVIKEAGIKLSEIDHIVLVGGSTRMPAVYELVKELAGGKEPNKGVNPDEVVAVGAALQAGVLKGERKDVLLIDVTPLSLGIETKGGVMTHLIERNTAIPTKRSETFTTADDNQPSVAIQVFQGEREFTRDNKPLGTFELTGIAPAPRGVPQVEVTFDIDANGIVHVSAKDKGTGKEQSMTITGGTALSKEDIDRMVKDAEEHAAEDKARREATDTRNTAEQLAYSVDKLIADNADKLPEEVKTEVKADVDALKKALEGTDDAAVKTAFEKLQASQSKLGEAIYAQAGSPDGATGPAGAESAAGSEGAKADEDIVDAEIVDEDEKK |
| 1217 | sp|P9WQB7|AHPC\_MYCTU | MPLLTIGDQFPAYQLTALIGGDLSKVDAKQPGDYFTTITSDEHPGKWRVVFFWPKDFTFVCPTEIAAFSKLNDEFEDRDAQILGVSIDSEFAHFQWRAQHNDLKTLPFPMLSDIKRELSQAAGVLNADGVADRVTFIVDPNNEIQFVSATAGSVGRNVDEVLRVLDALQSDELCACNWRKGDPTLDAGELLKASA |
| 1218 | sp|P82955|AHPF\_ACICA | MLDQNIXTQLXAYLER |
| 1219 | sp|P92979|APR1\_ARATH | MAMSVNVSSSSSSGIINSRFGVSLEPKVSQIGSLRLLDRVHVAPVSLNLSGKRSSSVKPLNAEPKTKDSMIPLAATMVAEIAEEVEVVEIEDFEELAKKLENASPLEIMDKALEKYGNDIAIAFSGAEDVALIEYAHLTGRPFRVFSLDTGRLNPETYRFFDAVEKHYGIRIEYMFPDSVEVQGLVRSKGLFSFYEDGHQECCRVRKVRPLRRALKGLKAWITGQRKDQSPGTRSEIPVVQVDPVFEGLDGGVGSLVKWNPVANVEGNDVWNFLRTMDVPVNTLHAAGYISIGCEPCTKAVLPGQHEREGRWWWEDAKAKECGLHKGNVKENSDDAKVNGESKSAVADIFKSENLVTLSRQGIENLMKLENRKEPWIVVLYAPWCPFCQAMEASYDELADKLAGSGIKVAKFRADGDQKEFAKQELQLGSFPTILVFPKNSSRPIKYPSEKRDVESLTSFLNLVR |
| 1220 | sp|P76215|ASTE\_ECOLI | MDNFLALTLTGKKPVITEREINGVRWRWLGDGVLELTPLTPPQGALVISAGIHGNETAPVEMLDALLGAISHGEIPLRWRLLVILGNPPALKQGKRYCHSDMNRMFGGRWQLFAESGETCRARELEQCLEDFYDQGKESVRWHLDLHTAIRGSLHPQFGVLPQRDIPWDEKFLTWLGAAGLEALVFHQEPGGTFTHFSARHFGALACTLELGKALPFGQNDLRQFAVTASAIAALLSGESVGIVRTPPLRYRVVSQITRHSPSFEMHMASDTLNFMPFEKGTLLAQDGEERFTVTHDVEYVLFPNPLVALGLRAGLMLEKIS |
| 1221 | sp|Q53816|CSPA\_SHIBO | DKGFGFITPDDGSKDVFVHFSAIQNDGYKSLDEGQKVSFTIESGAK |
| 1222 | sp|O68185|CLPB\_LACLM | MDIEKMTTTMQEALGSAQQIAQVRHHQVIEVPHLWRIFVQPNSFGANFYKDLGIDLDDFTNLIEKEIDKINSVEGSNITYGQNLSPDLFQVFTEADKIAQKMGDEYLSTEIILLALFELKQNPLTEYLVSHGLTKAKAQAAIEKLRGGDKVTSQNAEETYKALEKYGVDLVAQVKSGNQDPVIGRDEEIRDVIRVLSRKTKNNPVLIGEPGVGKTAIVEGLAQRIVRKDVPENLKDKTIFSLDMGALIAGAKYRGEFEERLKAVLNEVKKADGQIILFIDELHTIVGAGKTEGSMDAGNLLKPMLARGELHLIGATTLDEYRKYMETDKALERRFQKVLVTEPTVEDTISILRGLKERFEIHHGVTIHDNALVAAATLSNRYITDRFLPDKAIDLIDEASATIRVEMNSLPTELDQANRRLMQLEIEEAALKKERDDASKKRLEIIRGEIAELREENNQLKAQWEAEKKEVGNISEKRNELEHARHELEEAQNEGNLEKAAALRYGKIPEIEKELKAIEEKAKSDDLSLVQESVTEEQIAEVVGRMTGIPITKLVEGEREKLLHLPETLHQRVVGQDEAVEAVSDAIIRARAGIQDPNRPLGSFLFLGPTGVGKTELAKALAENLFDSEEHMVRIDMSEYMEKHSVSRLVGAPPGYVGYDEGGQLTEAVRRNPYTIILLDEIEKAHPDVFNILLQVLDDGRLTDSKGVLVDFKNTVLIMTSNVGSQYLLDNVGENGEISEETTENVMSQLRAHFKPEFLNRIDDTILFKPLALEDIKNIILKMTSQLAHRLEEMEVELELSEEVKVWIAENAYEPAYGARPLKRYLTKVIENPLAKLIIGGKIPPKSKVIVRLIDNKVDFDVQSIAE |
| 1223 | sp|Q03196|CYT\_SOLTU | QTQNAHLEFVEVLNVKEQVVAGMMYYITLVATDDGYKKIYKTKIWVKEWENFKEVQEFKQIVYATK |
| 1224 | sp|Q8CQ89|CTSR\_STAES | MHNMSDIIEQYIKRLFEEADEDVVEIQRAHIAQRFDCVPSQLNYVIKTRFTNEHGYEIESKRGGGGYIRITKIENKDATGYINHLLQLIGPSISQQQGYYVIDGLLDKGLINEREAKMIQTIIDRETLKMDVVARDIIRANILKRLLPVINYY |
| 1225 | sp|P26982|DEGP\_SALTY | MKKTTLAMSALALSLGLALSPLSATAAETSSSAMTAQQMPSLAPMLEKVMPSVVSINVEGSTTVNTPRMPRNFQQFFGDDSPFCQDGSPFQNSPFCQGGGNGGNGGQQQKFMALGSGVIIDAAKGYVVTNNHVVDNASVIKVQLSDGRKFDAKVVGKDPRSDIALIQIQNPKNLTAIKLADSDALRVGDYTVAIGNPFGLGETVTSGIVSALGRSGLNVENYENFIQTDAAINRGNSGGALVNLNGELIGINTAILAPDGGNIGIGFAIPSNMVKNLTSQMVEYGQVKRGELGIMGTELNSELAKAMKVDAQRGAFVSQVMPNSSAAKAGIKAGDVITSLNGKPISSFAALRAQVGTMPVGSKISLGLLREGKAITVNLELQQSSQSQVDSSTIFSGIEGAEMSNKGQDKGVVVSSVKANSPAAQIGLKKGDVIIGANQQPVKNIAELRKILDSKPSVLALNIQRGDSSIYLLMQ |
| 1226 | sp|P0C0V1|DEGP\_ECO57 | MKKTTLALSALALSLGLALSPLSATAAETSSATTAQQMPSLAPMLEKVMPSVVSINVEGSTTVNTPRMPRNFQQFFGDDSPFCQEGSPFQSSPFCQGGQGGNGGGQQQKFMALGSGVIIDADKGYVVTNNHVVDNATVIKVQLSDGRKFDAKMVGKDPRSDIALIQIQNPKNLTAIKMADSDALRVGDYTVAIGNPFGLGETVTSGIVSALGRSGLNAENYENFIQTDAAINRGNSGGALVNLNGELIGINTAILAPDGGNIGIGFAIPSNMVKNLTSQMVEYGQVKRGELGIMGTELNSELAKAMKVDAQRGAFVSQVLPNSSAAKAGIKAGDVITSLNGKPISSFAALRAQVGTMPVGSKLTLGLLRDGKQVNVNLELQQSSQNQVDSSSIFNGIEGAEMSNKGKDQGVVVNNVKTGTPAAQIGLKKGDVIIGANQQAVKNIAELRKVLDSKPSVLALNIQRGDSTIYLLMQ |
| 1227 | sp|B9DNJ9|DNAJ\_STACT | MAKRDYYEVLGVSKDASKDEIKKAYRKLSKKYHPDINQEEGAEEKFKEISEAYEVLSDENKRANYDQFGHDGPQGGFGGQGFGGGQDFGGFGGGFEDIFSSFFGGGAQRDPNVPRKGDDLQYTMTVTFEEAAFGTEKEISIRKQVKCETCDGSGAKPGSKKKTCHYCNGSGHVSVEQNTILGRVRTEKVCPVCNGTGEEIEEPCPTCHGKGTETKNVKIKVKVPEGVDNDQQIRLAGEGAPGHNGGPQGDLYVVFRVEPSDTFEREGDDIFYNLNVSFPQAALGDEIKVPTLKGHVMLSVPEGTQNGKQFRMKEKGIKNVHGYGYGDLFININVVTPTKLNDKQKSIMREFAEVSGEEITEQPTNFKERARRFFKGE |
| 1228 | sp|Q1H3B8|DNAK\_METFK | MGKIIGIDLGTTNSCVAVMEGGKPRVIENAEGARTTPSVIAYQEDGEILVGAPAKRQAVTNPKNTLFAVKRLIGRRFDEKEVQKDIGLMPYTITKADNGDAWVEVRGQKLAPPQISAEVLRKMKKTAEDYLGEEVTEAVITVPAYFNDSQRQATKDAGRIAGLEVKRIINEPTAAALAFGLDKQEGDRKIAVYDLGGGTFDISIIEISEIDGEHQFEVLSTNGDTFLGGEDFDNRLIDFLADEFKKENGIDLRNDLLAKQRLKEAAEKAKIELSSSTQTEVNLPYITADASGPKHLVVKITRAKFESLVEDLIERSIKPCEVALKDAGVKVSDIQDVILVGGQTRMPKVQEKVKEFFGKEPRKDVNPDEAVAVGAAIQGGVLQGDVKDVLLLDVTPLSLGIETLGGVMTKLIQKNTTIPTKASQVFSTAEDNQSAVTIHVLQGEREMASGNKSLGQFNLTDIPPAPRGMPQIEVTFDIDANGILHVSAKDKATGKENKITIKANSGLSDEEIKRMEEEAAKYADEDKKLRELVDARNSADSAIHSVKKSLAEHGDKLDAAEKGAIEKAVQELEDVIKGDDKAAIESKTNALIEASQKLGEKVYAAGETESSAAEPGEPQEKTVDAEVVDAEFEEVKDDKK |
| 1229 | sp|A6TSM0|DNAK\_ALKMQ | MGKVIGIDLGTTNSCVAVLEGGEPVVIPNSEGNRTTPSVVAFGKDGERIVGEPAKRQAVVNPEKTIISIKTHMGSDHKVAIDDKNYTPEDISAMILQKIKADAEAYLGEAVTDAVITVPAYFTDSQRQATKDAGKIAGLNVRRIINEPTAASLAYGLDKTDEHQKILVYDLGGGTFDVSILELGDGVFEVLATNGNNNLGGDDFDQALMDYIAEAFKKQEGIDLRKDKMSLQRLKEASEKAKQELSSTMTSSINLPFITATNEGPKHLNMDITRSKFDEITSHLVEKTMGPMRSALKDAGLSASDINKIILVGGSTRIPAVQQAVKKITNQDPHKGVNPDECVAVGAAIQAGVLTGEVKDVLLLDVTPLSLGIETLGGVFTRLIERNTTIPSKKSQTFSTAADNQPAVDIHVLQGEREMAAGNVSLGRFELSGIPPAHRGIPQIEVTFDIDANGIVNVSAKDLGTGKEQKITITASTKLSDEEIEKKIKEAEEHAEEDKMQKEKIEVRNQADSLVYQIEKTLKESEGKIDKEEEGKVTAELEKLKKAVESDIVEDMKKAIEDVNTVFHAISQKLYEQAAQAQEAEGQEQAGDDNIVDAEYEEVKDEETQGEDEK |
| 1230 | sp|A1STE4|DNAK\_PSYIN | MGKIIGIDLGTTNSCVSVLVGGVAKIIENAEGERTTPSIIAYTEGETLVGQPAKRQSVTNPQNTLFAIKRLIGRRYEDEEVQRDIKIMPYKIVKADNGDAWVEAHGNKMAPPQISAEVLKKMKKTAEDYLGEKVTGAVITVPAYFNDAQRQATKDAGRIAGLEVKRIINEPTAAAFAYGVDSSKGDSVIAVYDLGGGTFDISIIEIDEVDGEKTFEVLSTNGDTHLGGEDFDNRLINFLVAEFKTQQGFDLTNDPLAMQRVKEAAEKAKIELSSAQQTDINLPYITADQSGPKHLNIKITRAKLESLVEDMVKSTLEPLRIALKDADLSVADIDDVILVGGQTRMPLVQKLVTEFFGKEARKDVNPDEAVAMGAAIQGAVLSGEKTDVLLLDVTPLSLGIETMGGVLTKVIDKNTTIPTKQSQTFSTAEDNQSAVTIHILQGERKRATDNKSLGQFNLEGIRKASRGTPQIEVTFDMDADGILHVSAQDKDTKQEQKITIKSSSGLSEEEVEKMVNDAEANAEADKKFEEVVKARNQADAIVHTTRKQIEEAGDALPADEKEKIEAALKELDEATKGEDKDIIEAKTTAVAEASEKLMEIVQQKAQAAEAGGEEQPKEKTKEEDDIVDAEFEEVKKDDKK |
| 1231 | sp|Q6G554|DNAK\_BARHE | MAKVIGIDLGTTNSCVAVMDGKNAKVIENSEGARTTPSVVAFTDGGERLVGQPAKRQAVTNPEGTIFAVKRLIGRRFDDPMVEKDKALVPYKIVKGDNGDAWVEEAGKKYSPSQISAMILQKMKETAESYLGEKVEQAVITVPAYFNDAQRQATKDAGKIAGLEVLRIINEPTAAALAYGLDKKDGKTIAVYDLGGGTFDISVLEIGDGVFEVKSTNGDTFLGGEDFDMRLVGYFADEFKKEQGIDLKNDKLALQRLKEAAEKAKIELSSSQQTEINLPFITADQSGPKHLTMKLTRAKFESLVDDLVKRTVEPCKAALKDAGLKAGEIDEVVLVGGMTRMPKIQEVVQSFFGKDPHKGVNPDEVVAMGAAIQGGVLQGDVKDVLLLDVTPLSLGIETLGGVFTRLIERNTTIPTKKSQVFSTADDNQNAVTIRVFQGEREMANDNKLLGQFDLVGIPPAPRGVPQIEVTFDIDANGIVNVSAKDKGTGKEHQIRIQASGGLSDADIEKMVKDAEEHAAEDKKRREGVEARNQAEALIHSTEKSLTEYGDKVSTEEKEQIETAISDLKSVLDSTDTEEVKAKMQKLAEVSMKLGQAMYEASQAATPNTETDTKSDDVVDADFEEINDKKK |
| 1232 | sp|B1XQF6|DNAJ\_SYNP2 | MAGDFYEILGVSRDCGKDELKRAYRRLARQYHPDVNKDPGAEEKFKEINRAYEVLSEPETRARYDRFGEAGVSGAGAAGADYGDMGGFADIFETIFSGFGGMGTGATGGGRRRSGPMRGDDLRLDLKLDFKEAIFGGEKEIRIPHLETCKTCSGSGAKAGTSANTCGTCNGTGQVRRATRTPFGSFAQVSVCPTCNGEGQVIAEKCESCGGAGRKQETKKLKITIPAGVDSGTRLRVSREGDAGVKGGPPGDLYVYLAVNADKEFRRDGTNILSEIEISYLQAILGDTVKVKTVDGTEDLTIPAGLQPNKVLILEGKGVPKLGNPVSRGDHLITVKVMIPTKVSREEKELLHQLAKLKGTEHSKGGFEGLLGNLFHNK |
| 1233 | sp|P69376|DNAK\_PORPU | MGKVVGIDLGTTNSVIAVMEGGKPTVIPNAEGFRTTASVVAYTKSGDKLVGQIARQAVINPENTFYSVKRFIGRKQNEISQEIRQTSYNVKTSGSSIKIECPALNKDFAPEEISAQVLRKLVEDASTYLGETVTQAVITVPAYFNDSQRQATKDAGKIAGLDVLRIINEPTAASLSYGLDKQNNETILVFDLGGGTFDVSILEVGDGVFEVLSTSGDTHLGGDDFDQQIVEWLIKDFKQSEGIDLGKDRQALQRLTEASEKAKIELSNLTQTEINLPFITATQDGPKHLEKTVTRAKFEELCSRLIDKCSIPVNNALKDAKLEASSIDEVVLVGGSTRIPAIQQMVKRLIGKDPNQSVNPDEVVAIGAAVQAGVLAGEVKDILLLDVTPLSLGVETLGGVMTKIIPRNTTIPTKKSEVFSTAVDNQPNVEIQVLQGERELTKDNKSLGTFRLDGIMPAPRGVPQIEVTFDIDANGILSVKAKEKATGKEQSITISGASTLPKDDVERMVKEAEENFDVDQKRRKNIDIRNQAESLCYQSEKQVKEFEDKIDEELKNRITNLISELRSNLEKEELDSIEANSEKLQNALMEIGKNATSAEKDTQNASNDDTVIDTDFSEAK |
| 1234 | sp|Q5F5M1|DNAJ\_NEIG1 | MSNQDFYATLGVARAATDDEIKKAYRKLAMKYHPDRNPDNKEAEEKFKEVQKAYETLSDKEKRAMYDQYGHAAFEGGGQGGFGGFGGFGGAQGFDFGDIFSQMFGGGSGRAQPDYQGEDVQVGIEITLEEAAKGVKKRINIPTYEACDVCNGSGAKPGASPETCPTCKGSGTVHIQQAIFRMQQTCPTCRGAGKHIKEPCVKCRGVGRNKAVKTVEVNIPAGIDDGQRIRLSGEGGPGMHGAPAGDLYVTVRIRAHKIFQRDGLDLHCELPISFAMAALGGELEVPTLDGKVKLTVPKETQTGRRMRVKGKGVKSLRSSATGDLYCHIVVETPVNLTDRQKELLEEFERISTGLENQTPRKKSFLDKLRDLFD |
| 1235 | sp|C4K3I6|DNAK\_HAMD5 | MTKIIGIDLGTTNSCVAIMDGSKPRVLENSEGDRTTPSIIAYTDDGETLVGQPAKRQAVTNAKNTFFAIKRLVGRKFSDQETQRDKDIMPFDILESDNGDAWLSVKGQKTAPPQISAEVLKKMKKTAEDYLGETVTEAVVTVPAYFNDAQRQATKDAGRISGLEIKRIINEPTAAAIAYGLDKGKGNSTIAVYDLGGGTFDISIIEIDDVDGEKTFEVLATNGDTHLGGEDFDNRLINYLVDEFKKEQGFDLRKDPLAMQRLKEAAEKAKVELSSAQQTDVNLPYITADATGPKHMNMKVTRAKLESLVEDLVSRSIEPLKVALQDAGLSVSDIDDVILVGGQTRMPMVQKKVADFFGKEPRKDVNPDEAVAIGAAVQGGVLSGEVKDLLLLDVTPLSLGIETMGGVMTSLISKNTTIPTKHSQVFSTAEDNQSAVTIHVLQGERKRAIDNKSLGQFNLDGIQPAPRGTSQIEVTFDIDADGILHVSAKDKNTGREQKITIKASSGLSEAEIEKMVRDAESNSETDRKFEELIQVRNQADHLIHATNKKLKEAGDKVSPEEKTSIEQALKALETAIKGEDKTDIESKANALTMVSAKLEEASQQNSSSNNAEKNDSSDVKADAVDAEFEEVKDKK |
| 1236 | sp|Q1WUE8|DNAK\_LACS1 | MSKIIGIDLGTTNSAVAVLEGKDPKIITNPEGNRTTPSVVSFKNGETQVGEVAKRQAITNPNTVSSIKRHMGDANYKVKIEDKEYTPQEISAMILQYIKDYAESYLGEEVSQAVITVPAYFNDSQRQATKDAGKIAGLKVERIVNEPTAAALAYGLDKLDKDERILVFDLGGGTFDVSILELGDGVFEVLSTNGDTHLGGDDFDNKIIDWLVENFKADNGIDLSQDKMAMQRLKDAAEKAKKDLSGTTEAQISLPFIAAGEAGPLHLETSLSRAKFNELTEDLVERTKIPVRNALADAGLTNADIDEVILVGGSTRIPAVKEAVKAETGHTPNESVNPDEAVALGAAIQGGVITGDVKDVVLLDVTPLSLGIETMGGVFTKLIDRNTTIPTSKSQVFSTAADNQPAVDIHVLQGERPMAADNKTLGRFQLTDIPVAPRGVPQIEVKFDIDKNGIVNVSAKDLGTNKEQKITIKSSSGLSDEEIDRMVKEAKENEAADKKRKEEVDLRNEVDQLLFQTDKTLKEVKDKVSADEVKSVEDARDALKKAQEQSDINEMKAKKDELTKLIQDMSVKLYQQAQQAQQASGAQGDTSANNSTNDDNTVDGDFKEVDPDENK |
| 1237 | sp|P56836|DNAK\_CHLMU | MSEKRKSNKIIGIDLGTTNSCVSVMEGGQPKVIASSEGTRTTPSIVAFKGSETLVGIPAKRQAVTNPEKTLASTKRFIGRKFSEVESEIKTVPYKVAPNSKGDAVFEVENKLYTPEEIGAQILMKMKETAEAYLGETVTEAVITVPAYFNDSQRASTKDAGRIAGLDVKRIIPEPTAAALAYGIDKEGDKKIAVFDLGGGTFDISILEIGDGVFEVLSTNGDTHLGGDDFDEVIINWMLGEFKKQEGIDLSKDNMALQRLKDAAEKAKIELSGVSSTEINQPFITIDANGPKHLALTLTRAQFEHLASSLIERTKQPCAQALKDAKLSASDIDDVLLVGGMSRMPAVQAVVKEIFGKEPNKGVNPDEVVAIGAAIQGGVLGGEVKDVLLLDVIPLSLGIETLGGVMTPLVERNTTIPTQKKQIFSTAADNQPAVTIVVLQGERPMAKDNKEIGRFDLTDIPPAPRGHPQIEVTFDIDANGILHVSAKDAASGREQKIRIEASSGLKEEEIQQMIRDAELNKEEDKKRREASDIKNEADGMIFRAEKAIKDYQDKIPADLVKEIEEQIEKVRQAVKEDASTTAIKAASDELSARMQKIGEAMQAQSASAANAQGGPNINSEDLKKHSFSTRPPAGDNSSSTDNIEDADVEIVDKPE |
| 1238 | sp|A1KR91|DNAJ\_NEIMF | MSNQDFYATLGVARTATDDEIKKAYRKLAMKYHPDRNPDNKEAEEKFKEVQKAYETLSDKEKRAMYDQYGHAAFEGGGQGGFGGFGGFGGAQGFDFGDIFSQMFGGGSGRAQPDYQGEDVQVGIEITLEEAAKGVKKRINIPTYEACDVCNGSGAKPGTSPETCPTCKGSGTVHIQQAIFRMQQTCPTCHGAGKHIKEPCVKCRGAGRNKAVKTVEVNIPAGIDDGQRIRLSGEGGPGMHGAPAGDLYVTVRIRAHKIFQRDGLDLHCELPISFATAALGGELEVPTLDGKVKLTVPKETQTGRRMRVKGKGVKSLRSSATGDLYCHIVVETPVNLTDRQKELLEEFERISTGLENQTPRKKSFLDKLRDLFD |
| 1239 | sp|A6GXZ1|DNAK\_FLAPJ | MGKIIGIDLGTTNSCVSVMEGQEAVVIPNAEGKRTTPSIIAFVEGGEIKVGDPAKRQAVTNPTKTVASIKRFMGHSFSETTDEAKRVPYSVVKGDNNTPRVDIDGRLYTAQELSAMTLQKMKKTAEDYLGQTVTEAVITVPAYFNDAQRQATKEAGEIAGLKVMRIINEPTAAALAYGLDKKGIDQKIAVYDLGGGTFDISILELGDGVFEVLSTNGDTHLGGDDFDQTIIDWLADEFKAEEGIDLRLDPMSLQRIKEAAEKAKIELSSSAETEINLPYVTATASGPKHLVKKLTRAKFEQLSDTLVKRSMEPVAKALKDAGLTVKDIDEVILVGGSTRMPRIADEVEKFFGKKASKGVNPDEVVAIGAAIQGGVLSGDVKDVLLLDVTPLSLGIETMGGVMTILIESNTTIPTKKSQIFSTAADSQPTVELHVLQGARAMAVDNKTIGRFNLDGIPPAPRGVPQIEVAFDIDANGIIKVSATDKGTGKSHDIRIEASSGLTSEEIERMKKDAEANAGADKIARERVEKINEADSLIFQTETQLKELGDKITDEHKTAIEYALTELRMAHQSQDLEAIQKGLDNVNAAWKTATEAMYAQGEQGQAAQPQAETQGDDVQDVEFEEVK |
| 1240 | sp|B2JGE1|DNAJ\_PARP8 | MAKRDYYQVLGVAKNASDDEIKKAYRKLAMKHHPDRNPGNKDAEEHFKEAKEAYEMLSDSQKRAAYDQYGHAGVDPNMAGAGAQGFGGFADAFGDIFGDIFGQAAAGGRGGRSGPQVYRGADLRYSMEITLEQAAHGYDTQIRVPSWVSCEICHGSGAKPGTKPETCPTCNGSGAVRMSQGFFSIQQTCPKCHGTGTYIPEPCTHCHGAGKTKETKTLEVKIPAGIDDGMRIRSAGNGEPGINGGPSGDLYVEIHIKAHAVFERDGDDLHCQMPIPFTKAALGGEIEVPTLAGRATFTVPEGTQSGKTFRLRGKGIKGLRSSIAGDLYVHVQVETPVKLTDAQRDLLQQFEKSLVEGGARHSPQSKSWFDRVKSFFD |
| 1241 | sp|A2SIR5|DNAJ\_METPP | MAKRDYYETLGVAKNASEEDIKKAYRKLAMKHHPDRNQGDGAKKAEESFKEAKEAYEMLSDAQKRAAYDQYGHAGVDPNMGGRGAGGPEAYGGFAEAFGDIFGDIFGQNGQRRGPGGQQVYRGNDLSYAMEITLEEAARGKDTQIRIPSWDSCSTCDGTGAKPGTSAKTCPTCSGSGQVHLRQGFFSIQQTCPSCHGTGKIIPEPCTACNGAGRIKSNKTLEVKIPAGINEGMRIRSAGNGEPGTNGGPAGDLYIEIRIKAHDIFERDGDDLHCTIPIGIATATLGGAIEVPTLGGKAEIELPEGTQHGKTFRLRGKGIKGVRSSYPGDLYCHVAVETPIKLTEHQRKLLRELDESLKKGGERHSPNAKSWTDRVKDLFK |
| 1242 | sp|B8J402|DNAK\_DESDA | MSKIIGIDLGTTNSCVYVMEGKDPKCITNPEGGRTTPSVVAFTDKERLVGEIAKRQAVTNPTRTIFAIKRLMGRKFDSPEVDRWKEHSPYAIVKAPNGDAGVEVDGRTYSSPEISAMILAKLKADAEAYLGETVTEAVITVPAYFNDAQRQATKDAGRIAGLEVKRIINEPTAASLAYGADKKANEKIAVFDLGGGTFDISILEVGDNVVEVRATNGDTFLGGEDFDQRVINFLVEEFKKENGIDLSKDSMALQRLKEAAEKAKKDLSTSMETEVNLPFITADQNGPKHMLVKISRAKLESLVGDLVESTTEPCKKALADAGMTADQIDEVILVGGMTRMPLVQQVVGKFFGKEPNRSVNPDEVVAMGAAIQGGILSGDVKDVLLLDVTPLSLGIETMGGVFTRLIERNTTIPTRKSQVFTTASDNQPSVSIHVLQGERPMSADNMTLARFDLAGIPPAPRGVPQIEVSFDIDANGIVNVSAKDMGTGKEQSIKITASSGLSEEDIQKLVREAEAHATDDKKKQELIEARNHADSLIYGTEKSLADLGDKADAAVKSDIETKMADLRKLMEGEDAAAIKTATDELAKASHKLAEQLYQQQAQQTGAAGAQADAGAAEGQPQGNAADDVVDADYTEVKK |
| 1243 | sp|A7H2C0|DNAJ\_CAMJD | MEISYYEILEITQNADKETIKKAYRKMALKYHPDRNQGDKEAEDKFKLVNEAYEVLSNDEKRAIYDRYGKDALKGGGFGSNSSGFGGFEDLGDIFSSFFGESFGSSSRRRKSSNDEKIPSDFIFNLKLSFKEAVFGCKKNIDFTYKCSCKTCNGTGAKDGKLQTCPKCQGRGQVGVSQGFITFAQTCPDCQGSGEKASEKCNDCKGLGYNESKDSVELNIPEGVDTGMKLRVNAKGNILKNNTRGDMYVKIIAAEDDTFIRDDDDIYIEFPVFFTQAILGQSIKVPTIRGEVTLNLPKGAKDGQRFVLEKEGVKDVHSSRIGNQIVQISIKFPTSLNDEQKELLEKLSESFGIKDGMHQEQKGLFEKIANWFKS |
| 1244 | sp|P0CY98|DNAK\_CUTAC | MARSVGIDLGTTNSCVAVLEGGEPTVIPNAEGARTTPSVVAFTNSGETLVGEVAKRQAVTNVDRTVRSVKRHMGEAWTMGVDDKTYKPQQISAFILQKLKRDAEAYLGEPVTNAVITVPAYFSDAQRQATKEAGEIAGLAVDRIVNEPTAAALAYGLDKTDKDQTVLVFDLGGGTFDVSLLDISDGVFEVKATNGDNHLGGDDWDQRIVDWLVTQFKNANGIDLAADKMAKQRLQEAAERAKIELSQASETHINLPYITAGAAGPLHLDEKLTRAEFQRMTSDLLERCRTPFNAVMKDAGLNVSQIDEVILVGGSTRMPAVAELVKELAGKDPHKGVNPDEVVALGASLQAGVLKGEVKDVLLLDVTPLSLGIETKGGVMTKIIERNTTIPTKRSEVFTTAEDNQPSVMIQVFQGEREFVRDNKSLGNFELTGLMPAPRGIPQIEVSFDIDANGIVHVHAKDMATGKEQSMTVTGGSALGKDEIDRMVKEAEANAEADKKRREAVEMRNEADALAFRTEKLLDENSDKIPEDTKTPVTEAIATLKETLKGTDNDDEVKAAMDDLNQKASAMGQAIYAAAQQAQAENPQGQDAESASSESGDDTVVDAEIVDDEDEKK |
| 1245 | sp|B2V2I6|DNAJ\_CLOBA | MANKDYYEVLGLQKGASDDEIKKAFRKLAIKYHPDKNKGNTEAEEKFKEINEAYQVLSDPEKKSNYDQFGSADFNGGGFGSGGFGGFDMGGFGDIFDMFTGGGSSTRRRNGPVNGNDIEYTLTLTFEEAVFGVEKEITVNRSESCEHCNGSGAEPGTSKKTCPTCSGTGQVRVQRQTPLGSFVSTSTCDRCSGTGNIIEKPCTHCRGNGNVRKTRKINVNIPAGVDTGNVMPLRGQGEHGLRGGSPGDLYIRINVSPSKEFTRKGNDIYIDTHISMAKAALGTEITVKTVEGNVKYTVPEGTQSGTLFRLKGKGVARVNSTGKGDQYVRVIVDIPKGLNQKQKEALYTFMEACGEEMDENTHSFKKNLFGRKK |
| 1246 | sp|A8ZRW3|DNAK\_DESOH | MAKTIGIDLGTTNSCVAVMEGGEAKVITNPEGGRTTPSIVAINEDGERLVGQVAKRQAITNPENTVFGVKRLIGRKFDSAEVQHDIKVLPYKIEKAGNGDLRINLRDKQYSPAEISSFILADIKHTAEEYLGEKVTDAVITVPAYFSDSQRQATKDAGKIAGLNVLRIINEPTAASLAYGLDKKKDEKIAVFDLGGGTFDISVLEIGDGVFEVKSTNGDTHLGGEDFDLRVVDYLASEFKKDQGIDLRQDKMALQRLKEAAEKAKMELSSSPQTDINLPFITADANGPKHLNIKLSRAKLEELVEDLLDKMAKPCETALKDSGFSASQIDEVILVGGMTRMPAVQDRVKKIFGKAPNKSVNPDEVVAIGAAIQAGVLQGDVNDVLLLDVTPLSLGIETLGGVMTKLIEKNTTIPTKKSQVFSTAADNQPAVSIHVLQGEREMAANNKTLGRFDLADIPAAPRGVPQIEVTFDIDANGIVAVSAKDLGTGKEQSIKITASSGLSKEEIDKLVKDAEAHAEEDKNKRELVEAQNTADALIYQTEKSIKELGEDKLDNATKAEIQAKIEELKKAKETTDTDQIKKLSDELTQASHKLAEAMYQKASQEGQQASGGDAGASADGGTSSAAGGDDDVIDADYEEAGK |
| 1247 | sp|Q8XA65|DNAJ\_ECO57 | MAKQDYYEILGVSKTAEEREIKKAYKRLAMKYHPDRNQGDKEAEAKFKEIKEAYEVLTDSQKRAAYDQYGHAAFEQGGMGGGGFGGGADFSDIFGDVFGDIFGGGRGRQRAARGADLRYNMELTLEEAVRGVTKEIRIPTLEECDVCHGSGAKPGTQPQTCPTCHGSGQVQMRQGFFAVQQTCPHCQGRGTLIKDPCNKCHGHGRVERSKTLSVKIPAGVDTGDRIRLAGEGEAGEHGAPAGDLYVQVQVKQHPIFEREGNNLYCEVPINFAMAALGGEIEVPTLDGRVKLKVPGETQTGKLFRMRGKGVKSVRGGAQGDLLCRVVVETPVGLNEKQKQLLQELQESFGGPTGEHNSPRSKSFFDGVKKFFDDLTR |
| 1248 | sp|P28641|DHN3\_PEA | MSQYQNQYGAQTGMTDEYGNPVNQVDQYGNPISGGGGLTGEAGRQHYGTTGGATGQGHGHGQQHRGVDQTTGYGTHTGGVGGYGTKPEYGSTNTGSGYGTGTGYGGSGTNPDYGSTNTGSGYGTGTGYGGSGTTEYVREEHHGDKKGVMDKIKEKIPGTEQSRTNTDGTGYGSTGQGYVREQQHGTGYGSTGQGYVREQQDVHHGDEQHGEKKGIMEKIKEKLPGTGACTGH |
| 1249 | sp|Q1JA83|DNAK\_STRPB | MSKIIGIDLGTTNSAVAVLEGTESKIIANPEGNRTTPSVVSFKNGEIIVGDAAKRQAVTNPDTVISIKSKMGTSEKVSANGKEYTPQEISAMILQYLKGYAEDYLGEKVEKAVITVPAYFNDAQRQATKDAGKIAGLEVERIVNEPTAAALAYGMDKTDKDEKILVFDLGGGTFDVSILELGDGVFDVLATAGDNKLGGDDFDQKIIDFLVAEFKKENGIDLSQDKMALQRLKDAAEKAKKDLSGVTQTQISLPFITAGSAGPLHLEMSLSRAKFDDLTRDLVERTKTPVRQALSDARLSLSEIDEVILVGGSTRIPAVVEAVKAETGKEPNKSVNPDEVVAMGAAIQGGVITGDVKDVVLLDVTPLSLGIETMGGVFTKLIDRNTTIPTSKSQVFSTAADNQPAVDIHVLQGERPMAADNKTLGRFQLTDIPAAPRGIPQIEVTFDIDKNGIVSVKAKDLGTQKEQHIVIKSNDGLSEEEIDRMMKDAEANAEADAKRKEEVDLKNEVDQAIFATEKTIKETEGKGFDTERDAAQSALDELKAAQESGNLDDMKAKLEALNEKAQALAVKMYEQAAAAQQAAQGAEGAQANDSANNDDVVDGEFTEK |
| 1250 | sp|Q87NG3|BCCT3\_VIBPA | MTKGIDKYSIDSTDYTVGQDNVQKWGFDVHNPVFGISAGFIALFLVAALVLDAHTAKTALDGLKWKIIGSFDWLFIIAGNIFVIFCLALIVSPLGKIRLGGKDAVADYSFMSWLAMLFAAGMGIGLMFWSVAEPVAYFTGWYETPLGVEANSPEAARLALGATMFHWGLHPWAIYGVVALSLAFFTYNKGLPLSMRSIFYPLLGDRAWGWAGHIVDILAVLATLFGLATSLGLGAQQAASGIHHVFGVEPGLGLQIVVITVVTLLAVVSVVRGIDGGVKVISNINMVVAFLLLILVGLIGWAASLGSIPTTLMAYVENIIPLSNPFGRTDEAWFQGWTVFYWAWWISWSPFVGMFIARVSRGRTVREFITAVLIVPTVVTVVWMSVFGGLAIDQVVNKVGELGANGLTDVSLAMFQMFDVLPFGNILSIIAVVLVLVFFITSSDSGSLVIDSITAGGKVDAPVLQRVFWAFMEGAIAVALLWIGGSEAVQALQAGAISTALPFTFILLAMCVSLLMGMKTERQ |
| 1251 | sp|P53684|CDPK7\_ORYSJ | MGNQCQNGTLGSDYHNRFPREHAVGYVQGDSYLDLKKFDDTWPEVNNFKPTAASILRRGLDPTSINVLGRKTADLREHYIIGRKLGQGQFGTTYLCTEINTGCEYACKTIPKRKLITKEDVEDVRREIQIMHHLSGHKNVVAIKDVYEDGQAVHIVMELCAGGELFDRIQEKGHYSERKAAELIRIIVSIVAMCHSLGVMHRDLKPENFLLLDKDDDLSIKAIDFGLSVFFKPGQVFTELVGSPYYVAPEVLHKRYGPESDVWSAGVILYVLLSGVPPFWAETQQGIFDAVLKGHIDFQSDPWPKISDSAKDLIRKMLSHCPSERLKAHEVLRHPWICENGVATDQALDPSVISRLKQFSAMNKLKKLALRVIAERLSEEEIAGLREMFKAVDTKNRGVITFGELREGLRRFGAEFKDTEIGDIMEAAHNDNNVTIHYEEFIAATLPLNKIEREEHLLAAFTYFDKDGSGYITVDKLQRACGEHNMEDSLLEEIISEVDQNNDGQIDYAEFVAMMQGSNVGLGWQTMESSLNVALRDAPQVH |
| 1252 | sp|Q8NXE7|CLPB\_STAAW | MDINKMTYAVQSALQQAVELSQQHKLQNIEIEAILSAALNESESLYKSILERANIEVDQLNKAYEDKLNTYASVEGDNIQYGQYISQQANQLITKAESYMKEYEDEYISMEHILRSAMDIDQTTKHYINNKVEVIKEIIKKVRGGNHVTSQNPEVNYKALAKYGRDLVEEVRQGKMDPVIGRDEEIRNTIRILSRKTKNNPVLIGEPGVGKTAIVEGLAQRIVKKDVPESLLDKTVFELDLSALVAGAKYRGEFEERLKAVLKEVKESDGRIILFIDEIHMLVGAGKTDGAMDAGNMLKPMLARGELHCIGATTLNEYREYIEKDSALERRFQKVAVSEPDVEDTISILRGLKERYEVYHGVRIQDRALVAAAELSDRYITDRFLPDKAIDLVDQACATIRTEMGSNPTELDQVNRRVMQLEIEESALKNESDNASKQRLQELQEELANEKEKQAALQSRVESEKEKIANLQEKRAQLDESRQALEDAQTNNNLEKAAELQYGTIPQLEKELRELEDNFQDEQGEDTDRMIREVVTDEEIGDIVSQWTGIPVSKLVETEREKLLHLSDILHKRVVGQDKAVDLVSDAVVRARAGIKDPNRPIGSFLFLGPTGVGKTELAKSLAASLFDSEKHMIRIDMSEYMEKHAVSRLIGAPPGYIGHDEGGQLTEAVRRNPYSVILLDEVEKAHTDVFNVLLQILDEGRLTDSKGRSVDFKNTIIIMTSNIGSQVLLENVKETGEITESTEKAVMTSLNAYFKPEILNRMDDIVLFKPLSIDDMSMIVDKILTQLNIRLLEQRISIEVSDDAKAWLGQEAYEPQYGARPLKRFVQRQIETPLARMMIKEGFPEGTTIKVNLNSDNNLTFNVEKIHE |
| 1253 | sp|P17422|CLPB\_DICNO | MEFMQMSKKFTARFQEALSAAQSLAVGKDHAYIEPLHIFSALLDQEGSSIIAIAQRAGGQIGAVRQAVMQALERLPRVKNPTGDVNISPESMRLLNLCDKYAQQNGDEYISSELFLRAVYDAKGDLEQLLRANGLEKAAVVAAIDAVRGGEAVTDEYAEDKRGALKKYTLDVTQRPLDGKIDPVIGRDEEIRRAMQILQRRSKNNPVLIGEPGVGKTAIVEGLAQRIADRAVPESLKGKRLLSLDLAALLAGTKYRGEFEERLKAVLDEITKADGQIILFIDEIHTMVGAGKSEGSLDAGNMLKPALARGDLHCIGATTLDEYRQYMEKDAALERRFQKVIVDEPSVEDTIAILRNLQERYEVHHGINITDPALVAAAQLSHRYISGRKLPDKAIDLMDEAAAQIRMELDSKPEVMDKIDRRLIQLQIERMALEKETDAASKRRLSDLEAEIAAQEKEYADLEEIWLAEKAGNAGAAEIKEQLDKLRVELEAAKRRGDFARASEIQYGLIPAKEKQLLENEQQTEQRPHRLMRNKVTAEEIAEIVSRWTGIPVAKMMEGEKERLLHLETVLNERVVGQKTAVEAVANAIRRNRAGLSDPKRPIGSFLFLGPTGVGKTELCRTLAQFLFDSEENMVRIDMSEFMEKHSVARLIGAPPGYVGYDQGGYLTEAVRRKPYSVVLFDEVEKAHSDVFNTLLQVLDEGRLTDGQGRTVDFRHTVIIMTSNLGSDMIQLLAEKSYEEMKSAVMEIVMAHFRPEFINRIDEAIVFHGLAKTHMYRIAQIQLERLRQRLQTRELLLSVEEDAINQLVELGYDPLFGARPLKRAIQNYIENPLAQALLAGQYLPQSTITIGFDGTNFTFH |
| 1254 | sp|Q81E85|CSHC\_BACCR | MIKDMQPFLQQAWEKAGFKELTEIQKQAIPTILEGQDVIAESPTGTGKTLAYLLPLLHKINPEVKQPQVVVLAPTRELVMQIHEEVQKFTAGTEISGASLIGGADIKRQVEKLKKHPRVIVGSPGRILELIRMKKLKMHEVKTIVFDEFDQIVKQKMMGAVQDVIKSTMRDRQLVFFSATMTKAAEDAARDLAVEPQLVRVTRAESKSLVEHTYIICERREKNDYVRRIMHMGDVKAVAFLNDPFRLDEITEKLKFRKMKAAALHAEASKQEREATMRAFRGGKLEILLATDIAARGIDIDDLTHVIHLELPDTVDQYIHRSGRTGRMGKEGTVVSLVTPQEERKLLQFAKKLGIVFTKQEMFKGSFVETKPKAPKKKKPAFTGKKKPR |
| 1255 | sp|P0A978|CSPG\_ECOLI | MSNKMTGLVKWFNADKGFGFITPDDGSKDVFVHFTAIQSNEFRTLNENQKVEFSIEQGQRGPAAANVVTL |
| 1256 | sp|Q49Z29|CSHA\_STAS1 | MQNFKELGISDKMAETLQSMGFNEATPIQKESIPLALEGKDVLGQAQTGTGKTGAFGIPLIEKVADQEGVQSLILAPTRELAMQVAESLKAFAKGQNIQVVTVFGGMPIDRQIKALKKGPQIVVGTPGRVIDHLNRRTLKTNDIHTLILDEADEMMNMGFIDDMKFIMDKIPAEQRQTMLFSATMPKAIQTLVQQFMKSPVIVKTMNNEMSDPQIEEYYTIVKELEKFDTFTSFLDVHQPELAIVFGRTKRRVDELTSALISKGYKAEGLHGDITQAKRLEVLKKFKNDQLDILVATDVAARGLDISGVSHVYNFDIPQDTESYTHRIGRTGRAGKKGVAITFVNPIEMDYIRQIEQANKRQMTALRPPHRKEVLKARENDIKGKVQNWMSRDNEPRLQRIATELLGEYNDVDLIASLLQELVESNDEVDVQLTFEKPLSRGKGRQGKGGPKRGGNHKRGGGKFDNKNRRSGKGGFNNKKKNDRPSSDRNNNKKSMKGRTFADHKK |
| 1257 | sp|P0A9P7|DEAD\_ECOL6 | MAEFETTFADLGLKAPILEALNDLGYEKPSPIQAECIPHLLNGRDVLGMAQTGSGKTAAFSLPLLQNLDPELKAPQILVLAPTRELAVQVAEAMTDFSKHMRGVNVVALYGGQRYDVQLRALRQGPQIVVGTPGRLLDHLKRGTLDLSKLSGLVLDEADEMLRMGFIEDVETIMAQIPEGHQTALFSATMPEAIRRITRRFMKEPQEVRIQSSVTTRPDISQSYWTVWGMRKNEALVRFLEAEDFDAAIIFVRTKNATLEVAEALERNGYNSAALNGDMNQALREQTLERLKDGRLDILIATDVAARGLDVERISLVVNYDIPMDSESYVHRIGRTGRAGRAGRALLFVENRERRLLRNIERTMKLTIPEVELPNAELLGKRRLEKFAAKVQQQLESSDLDQYRALLSKIQPTAEGEELDLETLAAALLKMAQGERTLIVPPDAPMRPKREFRDRDDRGPRDRNDRGPRGDREDRPRRERRDVGDMQLYRIEVGRDDGVEVRHIVGAIANEGDISSRYIGNIKLFASHSTIELPKGMPGEVLQHFTRTRILNKPMNMQLLGDAQPHTGGERRGGGRGFGGERREGGRNFSGERREGGRGDGRRFSGERREGRAPRRDDSTGRRRFGGDA |
| 1258 | sp|Q5HFI1|DNAJ\_STAAC | MAKRDYYEVLGISKDASKDEIKKAYRKLSKKYHPDINKEEGADEKFKEISEAYEVLSDDNKRASYDQFGHDGPQGFGGQGFNGSDFGGFSGFGGGGFEDIFSSFFGGGRQRDPNAPQKGDDLQYTMTLTFEEAVFGTTKEISIRKDVTCETCHGDGAKPGTSKKTCSYCNGAGHVAVEQNTILGRVRTEQVCPKCNGSGQEFEEACPTCHGKGTENKTVKLEVKVPEGVDNEQQIRLAGEGSPGVNGGPAGDLYVVFRVKPSETFKRDGDDIYYKLNVSFPQAALGDEIKIPTLNNEVMLTIPAGTQTGKQFRLKEKGIKNVHGYGYGDLYVDIKVVTPTKLTDRQKELMKEFAQLNGEEINEQPSNFKDRAKRFFKGE |
| 1259 | sp|Q98DD1|DNAK\_RHILO | MAKVIGIDLGTTNSCIAIMDGKEPKVIENAEGARTTPSIVAISGDGERLVGQPAKRQAVTNPENTIFAVKRLIGRRYDDPVTEKDKKLVPYKIVKGDNGDAWVEAGGKKQSPSQISAMILQKMKETAEAYLGEKVEKAVITVPAYFNDAQRQATKDAGKIAGLEVLRIINEPTAAALAYGLDKKDGKTIAVYDLGGGTFDISVLEIGDGVFEVKSTNGDTFLGGEDFDMRLVEYLAAEFKKEQGIDLKNDKLALQRLKEAAEKAKIELSSTTQTEINLPFITADATGPKHLTLKLTRAKFESLVEDLVQRTIDPCKAALKDAGLKAGEIDEVVLVGGMTRMPKIQEIVKQFFGKEPHKGVNPDEVVALGAAIQAGVLQGDVKDVLLLDVTPLSLGIETLGGVFTRLIERNTTIPTKKSQVFSTAEDSQSAVTIRVFQGEREMAADNKALGQFDLVGIPPAPRGVPQIEVTFDIDANGIVNVSAKDKGTGKEHQIRIQASGGLSDADIEKMVKDAEANAETDKKRRAVVEARNQAEALVHSSEKSLKEYGDKVSEAERTAISDAIAALKTAAEGDDAADIEAKSQALAEASMKLGQAMYEASQKEAAEADAKADAAKDSDVVDADFEEIDEDDDKKKSA |
| 1260 | sp|P50020|DNAK1\_SYNE7 | MGKVIGIDLGTTNSCVAVLEGGKPIIVTNREGDRTTPSIVAVGRKGDRIVGRMAKRQAVTNAENTVYSIKRFIGRRWEDTEAERSRVTYTCVPGKDDTVNVTIRDRVCTPQEISAMVLQKLRQDAETFLGEPVTQAVITVPAYFTDAQRQATKDAGAIAGLEVLRIVNEPTAAALSYGLDKLHENSRILVFDLGGSTLDVSILQLGDSVFEVKATAGNNHLGGDDFDAVIVDWLADNFLKAESIDLRQDKMAIQRLREASEQAKIDLSTLPTTTINLPFIATATVDGAPEPKHIEVELQREQFEVLASNLVQATIEPIQQALKDSNLTIDQIDRILLVGGSSRIPAIQQAVQKFFGGKTPDLTINPDEAIALGAAIQAGVLGGEVKDVLLLDVIPLSLGLETLGGVFTKIIERNTTIPTSRTQVFTTATDGQVMVEVHVLQGERALVKDNKSLGRFQLTGIPPAPRGVPQIELAFDIDADGILNVSARDRGTGRAQGIRITSTGGLTSDEIEAMRRDAELYQEADQINLQMIELRTQFENLRYSFESTLQNNRELLTAEQQEPLEASLNALASGLESVSNEAELNQLRQQLEALKQQLYAIGAAAYRQDGSVTTIPVQPTFADLIGDNDNGSNETVAIERNDDDATVTADYEAIE |
| 1261 | sp|Q9ZJQ2|DNAJ\_HELPJ | MELSYYEILEVEKHSNQETIKKSYRKLALKYHPDRNAGDKEAEEKFKLINEAYGVLGDEKKRALYDRYGKKGLNQAGTSQSDFSDFFEDLGSFFEDAFGFGARGSKRQKSSIAPDYLQMIELSFKEAVFGCKKTIKAQYQSVCESCDGTGAKDKALENCKQCNGQGQVFMRQGFMSFAQTCGACQGKGKIIKTPCQACKGKTYILKDEEIDAIIPEGIDDQNRMVLKNKGNEYEKGKRGDLYLEARVKEDEHFKREGCDLFIKAPVFFTTIALGHTIKVPSLRGDELELKIPRNAKDRQAFAFRNEGVKHPESSYRGSLIVELQVIYPKSLNKEQQGLLEKLHASFGYEGEPHKSVLETCVSKIKDWFK |
| 1262 | sp|Q5P3M1|DNAJ1\_AROAE | MSPTDPHSLLGLSPGAGEREIKHAFRRLAMRWHPDRNADPAAIEHFKRLRAAYEDLLAEYSRCPAPAAAPHDAQAADARPEPPPEAPPRGADRREDLVLTMEEAFAGGEKAFTIADEIPCGACGGSGEEVLRHTRLCATCHGSGRVRDGRSLTACADCAGRGYLSRQACGACHGSGQARAARKLHVRIPAGVLDGDELRVAGADEDCDRSGGEPGDLILRVVLAPHALYRLDGRDLILSRPVSAFRMLLGGELPIPLPDGVRHLKLESGRATTRELRVKGAGFPGRGKQRAGALIVRLVPVLPEAPDAEILALLEIAESRLQNTLSRHLPDVASWEERWLPDIPETR |
| 1263 | sp|Q2FGE4|DNAJ\_STAA3 | MAKRDYYEVLGISKDASKDEIKKAYRKLSKKYHPDINKEEGADEKFKEISEAYEVLSDDNKRASYDQFGHDGPQGFGGQGFNGSDFGGFSGFGGGGFEDIFSSFFGGGRQRDPNAPQKGDDLQYTMTLTFEEAVFGTTKEISIRKDVTCETCHGDGAKPGTSKKTCSYCNGAGHVAVEQNTILGRVRTEQVCPKCNGSGQEFEEACPTCHGKGTENKTVKLEVKVPEGVDNEQQIRLAGEGSPGVNGGPAGDLYVVFRVKPSETFKRDGDDIYYKLNVSFPQAALGDEIKIPTLNNEVMLTIPAGTQTGKQFRLKEKGIKNVHGYGYGDLYVDIKVVTPTKLTDRQKELMKEFAQLNGEEINEQPSNFKDRAKRFFKGE |
| 1264 | sp|Q6AEC0|DNAJ\_LEIXX | MADHYEVLGVERNATPDEIKKAYRRLARELHPDVNPSTEAQERFKLVTHAYDVLSDPQQRQQYDRGGASGFGGGGGADFSGFGDIFETFFGGGGASRGPRSRRERGQDALLRVEVDLDEVVFGAHRDLEVDTAIVCETCDGSCCQPGTAPVPCDICHGTGSIQRSVRSLLGNVMTSSPCGSCRGYGTVIATPCVTCQGQGRVRARRTVPVDIPAGVDTGLRLQMPGSGEAGPAGGPNGDLYLEIKVKHHDVFSRDGDDLLCTLEVSMADAILGAAATIKALDGDIRLELKPGTQSADIVSVKDRGITHLRCSGRGDLRVGIQVVTPTKLDHREKELIKKFAESHKASEPSLARFQQGLFAKLRDRFLNV |
| 1265 | sp|Q9ZEJ0|DNAK\_MYCHO | MAKEFILGIDLGTTNSVVSVIENGTPKILENPNGKRTTPSVVAFKNGETIIGESAKRQLESNKDSVASIKRLMGTSQTVHLNNKDYKPEEISAMILSYMKDYADKKLGQPVKKAVITVPAYFDNAQREATKNAGIIAGLDVVRIINEPTAAALAFGLNKDKNENQKILVFDLGGGTFDVSLLEMESGTFEVLATAGDNHLGGDDWDHEIVKWMVEQIKSKYNFDPTTDKMAMARLKEEAERAKITLSEQLIANISLPFLAMNENGPVNVELEITRATFESMTEHLLQRTRKPLLDVLSEAKLTWNDINEVLLVGGSTRMPAVQKLVAEVTNKKPNNSINPDEVVSVGAAIQGAILAGEIQDVLLLDVTPLTLGIVVEGDVVAPLIPRNTTIPVTKSQIFSTAVDNQTAVTIVITQGERQLARDNKILGQFNLEGIEPAPRGIPQIEVSFSIDVNGITKVTAKDKKTNKEQTITIQNTSSLSKEEVEKMVKDAEANREADQKKRHEIEVIVKAEQLSNDLEKTLKSEQAKNLGEPQKQELQKEIDEIKELINKKDIEQLEKKITEFEQKMAQAAEFLKKQQGNNNPNTNNDNPQTN |
| 1266 | sp|O87385|DNAJ\_VIBHA | MSKRDFYEVLGVSRDASERDIKKAYKRLAMKYHPDRNQGDESAADKFKEVKESYEILTDPQKKAAYDQYGHAAFEQGGGGFGGGGFGGGGADFGDIFGDVFGDIFGGGRRGGGQQRAQRGADLRYNMELSLEEAVRGVSKEIEVPTLVHCDTCDGSGAKKGSSAETCGTCHGHGQVQMRQGFFAVQQTCPTCHGKGKIIRPCNECHGQGRKQKTKTLNVKIPAGVDTGDRIRLSGEGERGEMGAPAGDLYVQVHVKEHHIFEREGNNLYCEVPVSFLMACSMAALGGEVEVPTLDGRVNLKVPTETRAGRMFRMRGKGVKGVRGGGVGDLIVKLVVETPVNLSARQKELLKEFDESCGGDAQLSTNQNLKGFFNGVKKFFDDLTS |
| 1267 | sp|C3L3G7|DNAK\_CLOB6 | MAKIIGIDLGTTNSCVSVMEGGEPVVIPNAEGSRTTPSVVSFQANGERLIGQVAKRQAITNPEKTIISIKRYMGTDHKVNIDNTEYTPQQISAMVLQKLKADAEAYLGEKVTQAVITVPAYFNDSQRQATKDAGKIAGLEVLRIINEPTAASLAYGLDKMDTNEKILVYDLGGGTFDVSILELGDGVFEVKATNGDTKLGGDDFDQKLIDYIAETFKAENGIDLRNDKMAIQRLKEAAEKAKIELSSATQTNINLPFITADATGPKHIDMNLTRAKFNELTHDLVQRTLEPIKKSLEGSGYAMSDIDKIIMVGGSTRIPAVQDAVKDFTGKELSKGVNPDEVVAMGAAIQAGVLTGEVKDVLLLDVTPLTLGIETFGGVSTTLIEKNTTIPTRKSQVFSTAADGQTSVEIHVVQGERSMAADNKTLGRFTLSGIAPAPRGIPQIEVTFDIDANGIVNVSAKDKGTGKEANITITASTNLTDDEIEKAVNEAKKFEAEDKKRKESIEVKNNADQIVYQTEKTLTDLGDKVSAEDKAQIEEKVKVVKDVKDGEDLEAIKKATEDLTQTFYGISSKIYQQANPEGAPGAGFDPNNMGGANAGNASAGNDKKDDNVVDADFKVEDDK |
| 1268 | sp|A7GXU4|DNAK\_CAMC5 | MAKVIGIDLGTTNSCVSVYERGESKVIPNKEGKNTTPSVVAFTDKGEVLVGDVAKRQAVTNPEKTIYSIKRIMGLMSNEKNAQEAKARLPYHVVDRNGACAVEIAGKVYTPQEISAKILMKLKEDAEAYLGEKVVDAVITVPAYFNDSQRKATKEAGTIAGLNVLRIINEPTAAALAYGLDKKEAEKILVYDLGGGTFDVTVLETGDSVVEVLATGGNAFLGGDDFDNLIIDWLVNEFKNETGIDLKKDVMASQRLKEAAENAKKELSSAQETEINLPFITADATGPKHLVKKLTRAKFEGMIESLVAETITKINEVVKEAGLSKSDVKEVVMVGGSTRVPLVQEEVKKAFGKELNKSVNPDEVVAIGAAIQGAVIKGDVKDVLLLDVTPLSLGIETLGGVMTKIIEKGTTIPVKKNQTFSTAEDNQSAVTIHVLQGEREFARDNKSLGQFNLEGIPSAPRGVPQIEVEFDIDANGILTVSAKDKATGKAQNITISGSSGLSEDEINNMVKDAELHKEDDKKRKEAVEARNSADALVHQTEKSMNELGEKVPAEDRSNIEAALNDLKETLKDENASKEQIDAKVQALSAASHKLAEAMYKKDDNASGEQSGGKKKDDDVIDAEVE |
| 1269 | sp|P29133|DNAK\_ACIFR | AKVIGIDLGTTNSXVAVMEG |
| 1270 | sp|A8GMF8|DNAJ\_RICAH | MSQDYYKILGVSKTASQADLKKAYLKLAKQYHPDTTDDKDAEKKFKEINRAYDVLKDEQKRAAYDRFGHDTFQNQQSRGGGGSHAGFHHDINDIFGDFFSDFMGGGRRKPTSSKARGSDLKYDLTINLEEAFHGIEKNISFSSEVKCDTCHGSGSEKGETVTTCDACGGVGATRIQQGFFTIEQACHKCKGNGQIIKNPCKKCHGMGRCHKQRNLSVNIPAGVENGTRIRHTGEGEAGIRGGNSGDLYVDIAITPHDIYKVDGANLHCKLPISFVNAALGGEIEVPVIEGRKVNLTIPAGTQNGDQLRLRSKGMPKMRSTIRGDMITHIHIEVPKNLSKRQCELLEEFKKESISEKENDGSFFNKMKSLWS |
| 1271 | sp|B3QPW8|DNAJ\_CHLP8 | MKRDYYEILGVSRSADKDEIKKAYRKLALKYHPDKNPDNKEAEEKFKEANEAYEVLSNDDKRRRYDQFGHAGVGSSAASGGGPGGFGGGGYADINDIFEMFTGGGRARGGGSPFSGFEDIFGGGFSGGGGRRARSTGIHGTDLKIRLKLTLEEIAKGVEKTLKIKKQVVCSECNGTGSKSGKTETCQTCHGSGEVRQASKTMFGQFVNIVACPTCGGEGQVVKDRCTSCYGEGIKQGEVTVKINVPAGVQDGNYLTLQGQGNAGPRGGAPGDLIVIIEEKPHDQFKRNGDDIIYDLAVGFPDLVLGTKVDVPTLDGHVKLTVPAGTQPNTMLRIGGKGIGHLKGGGSGDLYVRVNVFVPKDVSGKDKEMLKELKKSSHISPNHGEQDHEKSIFEKAKDIFG |
| 1272 | sp|P96457|DNAJ1\_STRAL | YHLGGPPVTLKLPPGTPAGRTMRARGKGAVRKDGTRGDLLVTVDVAVPQHLSSEAREALEAYRKATADEDPRAELFKAAKGA |
| 1273 | sp|Q8KML6|DNAK\_LACSN | MASNKVIGIDLGTTNSAVAVMEGGKPKIITNPDGSRTTPSVVAFKNGEIQVGEVAKRQEITNPNTVRSIKSHMGEEGYTVDIDGKKYTPQQISAMILQYIKGYAEDYLGDTVSEAVITVPAYFNDAQRQATKDAGKIAGLDVKRIINEPTAAALAYGLDKQDKDEKILVYDLGGGTFDVSVLELGDGVFQVLSTNGDTHLGGDDFDQRIIDYLVAEFKKENGVDLAQDKMALQRLKDAAEKAKKELSGVNQTEISLPFIASNDNGPLHLQTTLTRAKFNELTHDLVEKTKIPFENALKDAGLSTSDIDEVILNGGSTRIPAVQEAVKEWSGKEPNHSINPDEAVALGAAVQGGVLTGDVKDVVLLDVTPLSLGIETMGGVMTKLIEKNTTIPTSKSQTFSTAADNQTAVDIHVLQGERPMAADNKSLGRFQLTDIPAAPRGIPQIEVTFDIDKNGIVNVSAKDKGTGKEQKITIKDSNGLSDEEIEKMMNEAKANEEADKKKKEEVDLNNEVDQLIFQTDKTLKDVEGKVSEDEIKGVKDAEEELKKAKADGNLDDMKAKKDTLNEKVQAVAVKLYQQQQSQGGEAGAANGDASKKDDNTVDGDFHEVHDDDKK |
| 1274 | sp|Q044A9|DNAK\_LACGA | MSKVIGIDLGTTNSAVAVLEGKEPKIITNPEGNRTTPSVVAFKNGEIQVGEVAKRQAITNPNTIVSIKSHMGEEGYKVKVGDKEYTPQEISAFILQYIKKFSEDYLGEKVTDAVITVPAYFNDAQRQATKDAGKIAGLNVQRIINEPTASALAYGLDKDENDEKVLVYDLGGGTFDVSILQLGDGVFQVLSTNGDTHLGGDDFDKRIMDWLIQNFKEENGVDLSNDKMALQRLKDAAEKAKKDLSGVSSTNISLPFISAGEAGPLHLEADLTRAKFDELTDDLVQKTKIAFDNALSDAGLSVSDIDKVILNGGSTRIPAVQKAVKEWAGKEPDHSINPDEAVALGAAIQGGVISGDVKDIVLLDVTPLSLGIETMGGVFTKLIDRNTTIPTSKSQIFSTAADNQPAVDVHVLQGERPMAADDKTLGRFELTDIPPAPRGVPQIQVTFDIDKNGIVNVSAKDMGTGKEQKITIKSSSGLSDEEIKKMQKDAEEHAEEDKKRKEEVDLRNEVDQLIFTTEKTLKETKGKVPETETKNVQDALDALKKAQKDNNLDEMKEKKEALSKAAQDLAVKLYQQNGGAQGAAGQAGPQGAQGGQPNNDNGSSNGQGGSTVDGDFHKVDPDK |
| 1275 | sp|Q6A662|DNAJ2\_CUTAK | MSTKDWAEKDYYKILGVSKDAKPEEIKKAFRKIARDNHPDSHPGDKAAEARFKEASEANDVLSNAKKRKEYDQARSLFGSAGGFRFPRGGAQTSVNVEDFLRTASNGDGFGDLFGNLFGASGGRRTASRSPRRGADVEGETTISFDDAVSGTTVTMDMVSQAPCQACRGTGARAGTVPRVCSTCQGSGMHASSAGGVFEMTEPCPDCHGRGMIVEDPCQVCHGSGRAKSTKSMQTRIPAGVEDGQRIRIKGKGSPGENGGKAGDLYVKVTVRPHEIFGRDGHNLTVTVPVTFPEATLGAEVEVPTLAGTTVRLRIPAGTPNGRTFRVRGRGVPRSDGSRGDLLATVEIAVPESLDDDARHVVERLRDSLPQATPRPWEVK |
| 1276 | sp|A8FFD1|DNAJ\_BACP2 | MSKRDYYEVLGVSKSASKDEIKKAYRKLSKKYHPDINKEAGSDEKFKEVKEAYETLSDDQKRSQYDQFGHTDPNQGFGGGGFGGGGDFGGFGGFDDIFSSIFGGGARRRDPNAPRQGADLQYTMTLSFEEAAFGKEATIEIPREESCETCHGSGAKPGTDAKTCSHCGGSGQLNVEQSTPFGKVVNRRVCNYCSGTGKQIDHKCSTCGGSGKVRKRKKINVTIPAGVDDGQQLRVSGQGEPGVNGGPPGDLFVVFHVRSHEFFERDGDDIYCEMPLTFAQAALGDEIEVPTLHGKVKLKVPAGTQTGTKFRLKGKGVKNVRGYGQGDQHIVVRVVTPTNLTDNQKDIIRKFAEVSGNKPDEQEMSFFDKVKRAFKGE |
| 1277 | sp|Q9ASR3|C7091\_ARATH | MGLVIFLALIVLILIIGLRIFKAFMILVWHPFVLTRRLKNQGISGPNYRIFYGNLSEIKKMKRESHLSILDPSSNDIFPRILPHYQKWMSQYGETFLYWNGTEPRICISDPELAKTMLSNKLGFFVKSKARPEAVKLVGSKGLVFIEGADWVRHRRILNPAFSIDRLKIMTTVMVDCTLKMLEEWRKESTKEETEHPKIKKEMNEEFQRLTADIIATSAFGSSYVEGIEVFRSQMELKRCYTTSLNQVSIPGTQYLPTPSNIRVWKLERKMDNSIKRIISSRLQSKSDYGDDLLGILLKAYNTEGKERKMSIEEIIHECRTFFFGGHETTSNLLAWTTMLLSLHQDWQEKLREEIFKECGKEKTPDSETFSKLKLMNMVIMESLRLYGPVSALAREASVNIKLGDLEIPKGTTVVIPLLKMHSDKTLWGSDADKFNPMRFANGVSRAANHPNALLAFSVGPRACIGQNFVMIEAKTVLTMILQRFRFISLCDEYKHTPVDNVTIQPQYGLPVMLQPLED |
| 1278 | sp|P0CU51|CAHS1\_PARRC | MSAEAMNMNMNQDAVFIPPPEGEQYERKEKQEIQQTSYLQSQVKVPLVNLPAPFFSTSFSAQEILGEGFQASISRISAVSEELSSIEIPELAEEARRDFAAKTREQEMLSANYQKEVERKTEAYRKQQEVEADKIRKELEKQHLRDVEFRKDIVEMAIENQKKMIDVESRYAKKDMDRERVKVRMMLEQQKFHSDIQVNLDSSAAGTETGGQVVSESQKFTERNRQIKQ |
| 1279 | sp|P0A0R3|CH10\_HELPY | MKFQPLGERVLVERLEEENKTSSGIIIPDNAKEKPLMGVVKAVSHKISEGCKCVKEGDVIAFGKYKGAEIVLDGTEYMVLELEDILGIVGSGSCCHTGNHDHKHAKEHEACCHDHKKH |
| 1280 | sp|P17204|CH10\_CHLMU | MSDQATTLKIKPLGDRILVKREEEASTARGGIILPDTAKKKQDRAEVLALGTGKKDDKGQQLPFEVQVGDIVLIDKYSGQELTVEGEEYVIVQMSEVIAVLQ |
| 1281 | sp|P35474|CH105\_RHIME | MAFRPLHDRILVRRVESEEKTKGGIIIPDTAKEKPQEGEVLAVGPGARGEQGQIQPLDVKVGDRILFGKWSGTEIKIDGEDLLIMKESDVMGIIEARAAEKIAA |
| 1282 | sp|Q8CPT5|CLPB\_STAES | MDINQMTYAVQGALQKAVAYSKEYELQNIEVEALLKAAMNENDSLFKSILERANIDVDQLIKAYDNQLSHYPTVQGDNVQYGQYISAKTNELLDKAEKYMKSYEDEFISMEHILRAAIDTDETTQKWVGNKVEVIKEIITKVRGGNHVTSQNPEVNYEALEKYGRDLVEEVRQGKMDPVIGRDEEIRNTIRILSRKTKNNPVLIGEPGVGKTAIVEGLAQRIVRKDVPESLLDKTIFELDLSALVAGAKYRGEFEERLKAVLKEVKESEGRIILFIDEIHMLVGAGKTDGAMDAGNMLKPMLARGELHCIGATTLNEYREYIEKDSALERRFQKVGVSEPDVEDTISILRGLKERYEVYHGVRIQDRALVAAAELSDRYITDRFLPDKAIDLVDQACATIRTEMGSNPTELDQVNRRVMQLEIEESALKNESDNASKHRLEELQEELSNEKEKQSSLKSRVEQEKEKIAKVQEKRAELDSSRQALEDAQTEGNLEKAAELQYGTIPQLEKELQEFEEAFQDETGEDSERMIREVVSDEEIGDIVSQWTGIPVSKLVETEREKLLSLSDILHKRVVGQDKAVDLVSDAVVRARAGIKDPNRPIGSFLFLGPTGVGKTELAKSLASSLFDSEKHMIRIDMSEYMEKHAVSRLIGAPPGYVGHDEGGQLTEAVRRNPYSVILLDEVEKAHSDVFNVLLQILDEGRLTDSKGRSVDFKNTIIIMTSNIGSQVLLENVKDAGEISDDTEKAVMDSLHAYFKPEILNRMDDIVLFKPLSVNDMSMIVDKILTQLNMRLLDQHISIEVTEEAKKWLGEEAYEPQFGARPLKRFVQRQIETPIARMMIKESLPEGTIIKVDLNDNKELDFKVVKPTS |
| 1283 | sp|Q7VJY3|CLPB\_HELHP | MNLFEKLTNQMKETLDSAASLALHSSNQEISLAHIYWALLSNHQSVLNQALNKMNIDKTALELQARSEVDKLPKSSQVQKENLSISKELSSALNLAQGEAIKNGDSFIAVDMFLIANLKESTFVAIFKPLVDIAEFKKTLLSLRGESKIESQSGDDNLESLSKFGIDLTQKALENTLDPVIGRDDEINAMMQILIRKSKNNPILLGEPGVGKTAVVEGLAQRIVAKAVPTSLQNKKLIALDMSALIAGAKYRGEFEERLKNVVDEVKKAGNIILFIDEIHTIVGAGASEGSMDAANILKPALARGELHTIGATTLKEYRKYFEKDAALTRRFQPINVNEPSINEALQILRGIKPNLEAHHNVNITDAALVAAAKLSSRYITDRFLPDKAIDLIDEAAAELKMQIESEPLELSKIKKHIANLEVEKQALNMEKTNVNEARVLEIDKELENLREEKMSLEGKFEQEKSVFTRIATIKAELDSLKRESELAKRSGDYNKAAEIDYGKIPDIQAQEAALHKQWEEMQQNGTLLKNAVTQESIAGVVSRWSGIPIKKMLQSQKERILGIESELAKSVVGQDDAIKAIARAIKRNKAGLNDASRPIGSFLFLGPTGVGKTQCAKTLAEFLFDNAKSLVRIDMSEYMEKHAVSRLVGAPPGYVGYEEGGVLTEAIRRKPYSIVLFDEVEKAHPDVFNILLQVLDDGRLTDSKGVSVDFSNTIIILTSNIASDKIMEIGDKQERQKAVKEALKMYFKPEFLNRLDDVVVFNPLGLADITQIVDIMFKSLAKRALEKGINVTLSQEAREHIAQVGFDSVYGARPLKRALYEEVEDRLADLILRDEIKEGDRVNFALKNGEICTHIEKE |
| 1284 | sp|Q92JK8|CLPB\_RICCN | MNIDKFTAHAKSVIASSQLLAAKNDHQQILPLHLLSSLLSEETGIIQTLINNTGGNINLLKDQVQLELNKIPKVQVEGGGQVYSSAEALKVLEKASSIAKDNGDSFVTIERIFEALTYDNTIAGKILTNNGINNKKIATAILQFRKGKKADTESAENSYDALKKYGRDVTELAESGKLDPIIGRDEEIRRTVQVLSRRMKNNPVLIGEPGVGKTAIIEGLAQRIFSKDVPESLINCRIIELDMGALIAGAKYRGEFEERLKAVLSEIKESSGEIILFIDELHLLVGTGKTDGAMDASNLLKPMLARGELHCIGATTLDEYRKYIEKDAALARRFQPVYVSEPTVEDTISILRGIKEKYELHHAVRISDSAIVAAATLSNRYITDRYLPDKAIDLIDEACSRMKIELSSKPEELDELDRRIIQIKIELAALKKENDEHSKKKIEHLTTALEKLESQSYDMGAKWQAEKSKLQQTQKLKEELDRSRNELERAERDANLAKASELKYGIIPEIMKKLQEAESMDNKGLLKEIVSESDIASIISRITGIPIDTMLSSERERLLVMEQKLRESVIGQDKAIKGVSDAVRRSRAGIQDINRPLGSFLFLGPTGVGKTELTKALAGFLFDDRNAILRIDMSEYMEKHAISRLIGAPPGYIGYDQGGVLTEAVRRRPYQVILFDEVEKAHPDIFNIMLQILDEGRLTDSQGITVDFKNTIIVLTSNLGAEILVNQKEDEDTYKVKDEVMEYVKAVFKPEFLNRLDEIILFHRLNRNNIHDIVKIQLESLKKILLAQNIILEFDESALNYLAEKGYDPSFGARPLKRLIQREIQNNLAKMILAGEISSGKTVKINSKDKELKVTMS |
| 1285 | sp|Q8F509|CLPB\_LEPIN | MKLDKLTSKLNEAIYNAQASAEKLGNPEISEEHILKEVLSQPDGLVPLLISKLNLSPKSFLESTENALGKQPKVGGNTSADVGFSRSAVSLLKAADEVRKELKDEYLSTDHILLGLMKNGTGSLKTEFLKLGLEYHKLLKITLENRKGKTIMDDSPEGKTDALAKYAKNLNELAKQGKLDPVIGRDEEIRRTIQVLSRRTKNNPVLIGEPGVGKTAIVEGLANKIVQGEVPEGIKNKTLYTLDLGSMIAGAKYRGEFEDRLKALLDEVKSSDGEVILFIDEIHTLVGAGATEGALDASNMLKPMLARGELRCIGATTLKEYQKYIEKDAALERRFQPVYVKEPSVEETVTILRGLKGRYELHHGIRILDSALIAAATLSNRYISDRFLPDKAVDLIDEASSKMRIEIDSMPEELDRANKRIQSLKIEREALKKEQDTASKERLKTLERDLSEQEQNFQTLKARWDLEKSKIGRLKQIKEEIEKYKNLEAEAERRGEINRVAEIRYGKLVDLQKELESANEELKKQESASRLLKEEVSEEDIANIVSRWTGIPVSKMLQGERAKLLLMEDVLKTKVIGQDHALRLVSEAVQRSRAGIADPNRPIGTFLFLGPTGVGKTETAKALAEFLFDDVNAMTRIDMSEYMEAHSVARLIGAPPGYVGYDEGGQLTEAVRRRPYSLILFDEIEKANPEVFNIFLQILDEGRLTDGKGRNVDFKNTVIILTSNIGSEVLGSSEYTSEEKERLVEQRLKKHFKPEFLNRIDEVILFHSITDSVIHKIADIQLEGLRQKAKENGLDVSFTNELKDYVSKAGFDAEYGARPLKRLIQREVGNALSRYILDGKFTNGQNVTVDYRQGKVVVVV |
| 1286 | sp|P0A9Y5|CSPA\_SALEN | MSGKMTGIVKWFNADKGFGFITPDDGSKDVFVHFSAIQNDGYKSLDEGQKVSFTIESGAKGPAAGNVTSL |
| 1287 | sp|P95459|CSPA\_PSEAE | MSNRQNGTVKWFNDAKGFGFITPESGNDLFVHFRSIQGTGFKSLQEGQKVSFVVVNGQKGLQADEVQVV |
| 1288 | sp|P0DA48|CSPA\_STRP3 | MAQGTVKWFNAEKGFGFISTENGQDVFAHFSAIQTNGFKTLEEGQKVAFDVEEGQRGPQAVNITKLA |
| 1289 | sp|P0A4D7|CSHA\_STRPN | MKFNELNLSADLLAEIEKAGFVEASPIQEQTIPLALEGKDVIGQAQTGTGKTAAFGLPTLEKIRTEEATIQALVIAPTRELAVQSQEELFRFGRSKGVKVRSVYGGSSIEKQIKALKSGAHIVVGTPGRLLDLIKRKALKLQDIETLILDEADEMLNMGFLEDIEAIISRVPENRQTLLFSATMPDAIKRIGVQFMKAPEHVKIAAKELTTELVDQYYIRVKEQEKFDTMTRLMDVAQPELAIVFGRTKRRVDELTRGLKIRGFRAEGIHGDLDQNKRLRVLRDFKNGNLDVLVATDVAARGLDISGVTHVYNYDIPQDPESYVHRIGRTGRAGKSGQSITFVAPNEMGYLQIIENLTKKRMKGLKPASVEESFQSKKQVALKKIERDFADETIRANFEKFGKDARKLAAEFTPEELAMYILSLTVQDPDSLPEVEIAREKPLPFKPSGNGFGGKAKGGRGGRRGDDRRERDRRGNGRRDEFKKGSRGNDRFDKEKRYRKDNKKPRNTLSEKQTGFVIRNKGDK |
| 1290 | sp|P54475|CSHB\_BACSU | MKETKFELYELKPFIIDAVHRLGFYEPTDIQKRLIPAVLKKESVIGQSQTGTGKTHAYLLPLLNKIDPAKDVVQVVITAPTRELANQIYQEALKITQGEEGSQIRSKCFIGGTDKQKSIDKLKIQPHLVVGTPGRIADLIKEQALSVHKAESLVIDEADLMLDMGFLADVDYIGSRMPEDLQMLVFSATIPEKLKPFLKKYMENPKYAHVEPKQVTAAKIEHILIPSKHRDKDKLLFDIMSHLNPYLGIVFANTKNTADHIAQYLTGKGMKIGLLHGGLTPRERKKVMKQINDLEFTYIIATDLAARGIDIKGVSHVINYELPDDLDFYVHRVGRTARAGSSGQAMTIYELTDEDALVRLEKMGIEFEYLELEKGEWKKGDDRQRRKKRKKTPNEADEIAHRLVKKPKKVKPGYKKKMSYEMEKIKKKQRRNQSKKRK |
| 1291 | sp|P0C114|DEGPL\_BRUAB | MSRARISNYRKGVAAVALSAALAGAFVVTGPLGALNEARAEAVHVTPPPQAGFADLVEKVRPAVVSVRVKKDVQETSNRGPQFFGPPGFDQLPDGHPLKRFFRDFGMEPRGDSRSDNRRGKANKPRPGHERPVAQGSGFVISEDGYVVTNNHVVSDGDAYTVVLDDGTELDAKLIGADPRTDLAVLKINAPKRKFVYVAFGDDNKVRVGDWVVAVGNPFGLGGTVTSGIVSARGRDIGAGPYDDFIQIDAAVNKGNSGGPAFDLSGEVIGINTAIFSPSGGSVGIAFAIPSSTAKQVVDQLIKKGSVERGWIGVQIQPVTKDIAASLGLAEEKGAIVASPQDDGPAAKAGIKAGDVITAVNGETVQDPRDLARKVANIAPGEKAALTVWRKNKAEEINVTIAAMPNDKGKSGSQSNDNDGGQGETLDSYGLTVVPSEDGKGVVVTDVDPDSDAADRGIRSGDVIVSVNNQTVKTAGDINKAITAAEKSGRKAVLLQLQSNDQSRFVALPINQE |
| 1292 | sp|P18584|DEGPL\_CHLTR | MMKRLLCVLLSTSVFSSPMLGYSASKKDSKADICLAVSSGDQEVSQEDLLKEVSRGFSRVAAKATPGVVYIENFPKTGNQAIASPGNKRGFQENPFDYFNDEFFNRFFGLPSHREQQRPQQRDAVRGTGFIVSEDGYVVTNHHVVEDAGKIHVTLHDGQKYTAKIVGLDPKTDLAVIKIQAEKLPFLTFGNSDQLQIGDWAIAIGNPFGLQATVTVGVISAKGRNQLHIVDFEDFIQTDAAINPGNSGGPLLNINGQVIGVNTAIVSGSGGYIGIGFAIPSLMAKRVIDQLISDGQVTRGFLGVTLQPIDSELATCYKLEKVYGALVTDVVKGSPAEKAGLRQEDVIVAYNGKEVESLSALRNAISLMMPGTRVVLKIVREGKTIEIPVTVTQIPTEDGVSALQKMGVRVQNITPEICKKLGLAADTRGILVVAVEAGSPAASAGVAPGQLILAVNRQRVASVEELNQVLKNSKGENVLLMVSQGDVVRFIVLKSDE |
| 1293 | sp|Q8K9H6|DEAD\_BUCAP | MTHTESTFSFLGLNPFIIKSLSKMGYVKPSPIQAACIPLLLEGRDVLGMAQTGSGKTAAFSLPLLHNLNINLKAPQILVLAPTRELAVQVAEAFSDFSKYIMGIHVLPLYGGQRYEVQLRALRQGPQIVVGTPGRLLDHLKRGTLNLSNLYALVLDEADEMLRMGFIEDVETIMSQIPKEHQTALFSATMPEAIRRISKRFMKNPQEIKIQSNITTRPDIKQSYWMVYGRKTDALIRFLEVEDFSATIIFVKTKNATLEVSEALERNGYNSAALNGDMNQALREQTLERLKSGRLDILIATDVAARGLDVDRISFVINYDIPMDSESYVHRIGRTGRAGRAGRALLFVENRERRLLRNIERTINQTIPEVQLPKIEVLCKRRLERFAKKVQEQLESRDLDEYSALLDKLYSPDDLDIKTLASALLKMAQGGRPLIIKKDLLQRPSREFSFKDDRRREDNHRNNNRNRRERRELKDIDLYRIEAGRNDGVEVRHIVGAIANEGNINSRNIGNIKLFSSYAIVELPKGLSKDLLQRLIKTKILNKKINIKLLRDIKNYETRTHNRSIFNKDKNNKRRFSDNRLNKSSSIKNETKSSFFRRKSV |
| 1294 | sp|A7NCM9|DNAK\_FRATF | MGKIIGIDLGTTNSCLAIMDGKTAKVIENAEGHRTTPSVVAYTDSGEILVGQAAKRQAVTNPDNTFFAIKRLIGRKYDDKAVQEDIKKKVPYAVIKADNGDAWVATKEGKKMAPPQVSAEVLRKMKKTAEDYLGEPVTEAVITVPAYFNDSQRQATKDAGKIAGLEVKRIINEPTAAALAYGVDSKKGEQTVAVYDLGGGTFDISIIEIADVDGDNQIEVLSTNGDTFLGGEDFDLALMNYLIDEFKKEQGIDLHNDKLALQRVREAAEKAKVELSSAQQTDVNLPYITADATGPKHLNIKVTRAKFESLVSDLVMRSLEPCKKALEDAGLSKSDITEVLLVGGQTRMPLVQEKVKEFFGKEPRKDVNPDEAVAVGAAIQGGVLAGDVKDVLLLDVTPLSLGIETMGGVMTKLIERNTTIPTKKSQVFSTAEDNQPAVTIHVLQGEREMASANKSLGRFDLADIPPAPRGMPQIEVTFDIDANGILNVSAKDKATGKEQNIVIKSSSGLSEEDIEKMVQDAEANAEADKKFHDLVTARNTADNLIHSSRKAIQELGDKVTAAEKEKIEEACKELEAATKGDDKQAIEAKTKALEEAFAPIAQKAYAEQAQAAGAQGGAKAEEPKKEEDVVDADFEDVEDDKK |
| 1295 | sp|A1ANV0|DNAK\_PELPD | MSKVIGIDLGTTNSCVAIMEGGEPIVIANSEGSRTTPSIVAFADNGERLVGQQAKRQAVTNPENTLYAIKRLIGRKFDTEAVKRDIAISPFKIVKADNNDAWVEARGKRYSPPEISAFVLQKMKQTAEDYLGQTVTDAVITVPAYFDDSQRQATKDAGKIAGLNVLRIINEPTAAALAYGLDKKKEEKVAVFDLGGGTFDISILELGDGVFEVKSTNGDTFLGGEDFDQLVIDWIADEFHKDQGINLRGDKMALQRLKEAAEKAKCELSSSMETDINLPFITADASGPKHLTMKLSRAKLETICGELLAKLEGPCRTAMKDAGLSASDIDEVILVGGMTRMPAVQKKVEAIFGKTPNRGVNPDEVVAIGAGIQGGVLKGDVKDVLLLDVTPLSLGIETLGGVMTKLIEKNTTIPCRKSQVFSTAADNQPAVSIHVLQGEREMSRDNKTLGNFELTGIPPAPRGIPQVEVTFDIDANGIVHVSAKDLGTGKEQSIRITASSGLSKEEIDKMVRDAESHADEDKKKRDAIEARNHADSMVYSTEKSLKEFGDKIDAVEKGNIENKIVELKKVMDGEDAEAIKKATDELAQAAHKLAEAMYAAKEQPGEHGETGSGEQARKESGKDENVVDADFEEVKK |
| 1296 | sp|Q97GB9|DFX\_CLOAB | MNNDLSIYVSKNSGTAVLLLQGNGTDLTCGSEPMAKIVANTTDAAQEKHVPHITKNGNNIDVSVGSVEHPMTPEHFIEWIILVSGDRLEMAKLTPDMKPRAQFHNVTSGTVYAYCNLHSLWKADI |
| 1297 | sp|A1WX31|DNAK\_HALHL | MGKIIGIDLGTTNSCVAVMEGNKTRVIENAEGDRTTPSVVAFAEDGEVLTGAPAKRQSVTNPENTIHAVKRLIGRRFDEDVVQRDIKEMPYKIVKADNGDAWVEAQGKKMAPPEVSARTLQKMKSTAEDYLGEEVTEAVITVPAYFNDSQRQATKDAGKIAGLEVKRIINEPTAAALAYGLDKEGGDKKVAVYDLGGGTFDVSIIEIAEVDGEKQFEVLSTSGDTFLGGEDFDKRIIDYLIQEFKKDQGIDLAQDHLALQRLREAAEKAKVELSSSQQTEINLPYITADQSGPKHMAIKLTRAKLESLVEDLVERTIEPCKTALKDAGLAAGDIQDVILVGGQTRMPKVQEKVKEYFGQDPRKDVNPDEAVAVGAAIQAGVLGGDVKDVLLLDVTPLSLGIETLGGVMTKIIEKNTTIPTKGTQTFSTAEDNQTAVTVHVLQGEREMAKDNKSLGRFDLTDIPPSPRGVPQIEVAFDIDANGILNVSAKDKATGKETGIEIKASSGLTEDEIERMVKEAEENAEEDRRQRELVEARNQAENMIHSTRKSLSDLGEQVGDAEKQEIESAISELEQVKDGEDKDAIEQKTQELATKAGELAQKAYQQAGGGDEASADAGAGETASGEQKEDVVDADFEEVKDEDGNSRK |
| 1298 | sp|Q6MT06|DNAK\_MYCMS | MAKEKIIGIDLGTTNSVVSVIEGGQPIILENPEGQRTTPSVVAFKNSDIIVGGAAKRQAVTNPNVVQSIKSKMGTTSKVNLEGKDYSPEQISAEILRYMKNYAEAKLGQKVTKAVITVPAYFNDAQRKATKDAGTIAGLQVERIINEPTAAALAYGLDKQDKEETILVYDLGGGTFDVSILAIGGGSFDVIATSGNNKLGGDNFDEEIIKWLLGKIKAEYNIDLSKEKMALQRLKDEAEKAKINLSSQLEVEINLPFIAMNESGPISFATTLTRSEFNKITKHLVDLTIQPVKDALSAAKKTPSEINEVLLVGGSTRIPAVQELVKSLLNKEPNRSINPDEVVAMGAAVQGGVLAGEVTDILLLDVTPLSLGIETMGGVMTKLIERNTTIPAKRTQIFSTATDNQPAVDINVLQGERAMAADNKSLGQFQLTGIQPAPRGVPQIEVTFEIDANGIVSVSAKDKNTNEEKTITISNSGNLSEAEVERMIKEAQENAANDEVKKKNIELKNKAENYINIIENSLLQAGDKISAEQKEQSQKMVDEIKELVKNENYEALEQKMAELEQAMAQAAEFANKQNESDPNNNSSEQNN |
| 1299 | sp|Q6L0S6|DNAJ\_PICTO | MAKDYYAILGVDRNASQDDIKKAFRELAKKYHPDANPGNKEAEEKFKEIAEAYEVLSDPQKRKQYDETGTTDFNAGSGFNWQDFTHFDDINDIFNQFFGGNFGDTFFGGYTNQPDLDIYLRVNISLEDAYYGASKNVKYRRNAMCEHCSGTGAENKVLITCPTCHGSGQERITRGQGFFRMVTVTECRTCHGRGKIPQKPCTVCHGTGTVSKNEDISVNIPKGADTNLKLRLKNMGNSYGGVTGDLYIVLIVNNPPGIRRSGQDIYVEHTIDFPEAALGGEEEIKLFRESYNLKIPAGTQPGEILKIKGAGMPRINGHGSGDLNVIIKIEVPKHLTSRQKELLEEFRNEKKKSWFHF |
| 1300 | sp|P0A1G7|DNAJ\_SALTY | MAKRDYYEILGVSKTAEEREIKKAYKRLAMKYHPDRNQGDKEAEAKFKEIKEAYEVLTDAQKRAAYDQYGHAAFEQGGMGGGFGGGFNGGADFSDIFGDVFGDIFGGGRGRQRAARGADLRYNMDLTLEEAVRGVTKEIRIPTLEECDVCHGSGAKAGTQPQTCPTCHGSGQVQMRQGFFAVQQTCPHCQGRGTLIKDPCHKCHGHGRVEKSKTLSVKIPAGVDTGDRIRLAGEGEAGEHGAPAGDLYVQVQVKQHPIFEREGNNLYCEVPINFAMAALGGEIEVPTLDGRVMLKVPSETQTGKLFRMRGKGVKSVRGGAQGDLLCRVVVETPVGLSEKQKQLLKDLQESFGGPTGEKNSPRSKSFFDGVKKFFDDLTR |
| 1301 | sp|C6DF09|DNAJ\_PECCP | MAKQDYYESLGVAKSADEREIKKAYKRLAMKYHPDRNPGDSEAEAKFKEIKEAYEILIDSQKRAAYDQYGHAAFEQGGMGGSGGGFGGGGADFGDIFGDVFGDIFGGGRRQRASRGSDLRYNMELTLEEAVRGVTKEIRIPALEECDVCHGNGAKPGSSPITCPTCHGNGQVQMRQGFFTVQQACPHCHGRGKIIKDPCVKCHGHGRVEKSKTLSVKIPAGVDTGDRIRLSGEGEAGEHGAPSGDLYVQVQVKAHPIFQREENNLYCEVPINFAMAALGGEIEVPTLDGRVKLKVPAETQTGKLFRMRGKGVKSVRGGAQGDLLCRVVVETPVNLNERQRQLLQELDESFGGPSGERNSPRSKSFFDGVKKFFDDLTR |
| 1302 | sp|A4IX28|DNAK\_FRATW | MGKIIGIDLGTTNSCLAIMDGKTAKVIENAEGHRTTPSVVAYTDSGEILVGQAAKRQAVTNPDNTFFAIKRLIGRKYDDKAVQEDIKKKVPYAVIKADNGDAWVATKEGKKMAPPQVSAEVLRKMKKTAEDYLGEPVTEAVITVPAYFNDSQRQATKDAGKIAGLEVKRIINEPTAAALAYGVDSKKGEQTVAVYDLGGGTFDISIIEIADVDGDNQIEVLSTNGDTFLGGEDFDLALMNYLIDEFKKEQGIDLHNDKLALQRVREAAEKAKVELSSAQQTDVNLPYITADATGPKHLNIKVTRAKFESLVSDLVMRSLEPCKKALEDAGLSKSDITEVLLVGGQTRMPLVQEKVKEFFGKEPRKDVNPDEAVAVGAAIQGGVLSGDVKDILLLDVTPLSLGIETMGGVMTKLIERNTTIPTKKSQVFSTAEDNQPAVTIHVLQGEREMASANKSLGRFDLADIPPAPRGMPQIEVTFDIDANGILNVSAKDKATGKEQNIVIKSSSGLSEEDIEKMVQDAEANAEADKKFHDLVTARNTADNLIHSSRKAIQELGDKVTAAEKEKIEEACKELEAATKGDDKQAIEAKTKALEEAFAPIAQKAYAEQAQAAVAQGGAKAEEPKKEEDVVDADFEDVEDDKK |
| 1303 | sp|B5Y242|DNAK\_KLEP3 | MGKIIGIDLGTTNSCVAIMDGTTARVLENAEGDRTTPSIIAYTQDGETLVGQPAKRQAVTNPQNTLFAIKRLIGRRFQDEEVQRDVSIMPYKIVAADNGDAWLDVKGTKTAPPQISAEVLKKMKKTAEDYLGEPVTEAVITVPAYFNDAQRQATKDAGRIAGLEVKRIINEPTAAALAYGLDKEVGNRTIAVYDLGGGTFDISIIEIDEVDGEKTFEVLATNGDTHLGGEDFDTRLINYLVDEFKKDQGIDLRNDPLAMQRLKEAAEKAKIELSSAQQTDVNLPYITADATGPKHMNIKVTRAKLESLVEDLVNRSIEPLKVALQDAGLSVSDINDVILVGGQTRMPMVQKKVAEFFGKEPRKDVNPDEAVAIGAAVQGGVLTGDVKDVLLLDVTPLSLGIETMGGVMTALINKNTTIPTKHSQVFSTAEDNQSAVTIHVLQGERKRASDNKSLGQFNLDGINPAPRGMPQIEVTFDIDADGILHVSAKDKNSGKEQKITIKASSGLNEEEIQKMVREAEANAESDRKFEELVQTRNQGDHLLHSTRKQVEEAGDKLPADDKTAIESALTALETSLKGEDKADIEAKMQALAQASQKLMEIAQQQHAQQQAGSADAQASNAKDDDVVDAEFEEVKDKK |
| 1304 | sp|B8CXL1|DNAK\_HALOH | MGKIIGIDLGTTNSCVAVLEGGEPTVIPNAEGNRTTPSVVAYTKKGERIVGEPAKRQAITNPDQTIRSIKRHMGTDHKVTLNDKEYTPQEISAMILQKLKRDAEEYLGEEVNEAVITVPAYFTDSQRQATKDAGRIAGLEVKRIINEPTAAALAYGLDKEGDKTILVFDLGGGTFDVSLLEIGDGVFEVVATSGNNHLGGDDFDKRIIDYLAENFKKEYGVDLRDDRMALQRLKDAAEKAKKELSSVKTTNINLPFITQTEDGPKHLDIDLTRAKFNELTEDLVEKTMGPTRQALKDAGLEPGDIDEVILVGGSTRIPAVQEAVKDFIGKAPHKGINPDEVVAMGAAIQAGVLAGDVDDIVLLDVTPLSLGIETLGGVFTKLIERNTTIPTSKKKVFTTAADNQTSVDIHVLQGERKLAKDNVTLGRFQLTGIPPAPRGVPQIEVKFDIDANGIVHVSAKDLGTGKKQQITIKSSSGLSEDEIEKMVNDARKHEEEDKKRLEEIEARNEADSLVYQTEKTLKESGDKVSKDVKDKVEKAKDELKKALEGDDVDQIKEKTEALKNELTELSSQLYAQAQQQAQQQAQGQQGAQTDNQTGQNDGKTIDVDYEEVDDDDK |
| 1305 | sp|B7NHB7|DNAJ\_ECO7I | MAKQDYYEILGVSKTAEEREIKKAYKRLAMKYHPDRNQGDKEAEAKFKEIKEAYEVLTDSQKRAAYDQYGHAAFEQGGMGGGGFGGGADFSDIFGDVFGDIFGGGRGRQRAARGADLRYNMELTLEEAVRGVTKEIRIPTLEECDVCHGSGAKPGTQPQTCPTCHGSGQVQMRQGFFAVQQTCPHCQGRGTLIKDPCNKCHGHGRVERSKTLSVKIPAGVDTGDRIRLAGEGEAGEHGAPAGDLYVQVQVKQHPIFEREGNNLYCEVPINFAMAALGGEIEVPTLDGRVKLKVPGETQTGKLFRMRGKGVKSVRGGAQGDLLCRVVVETPVGLNEKQKQLLQELQESFGGPTGEHNSPRSKSFFDGVKKFFDDLTR |
| 1306 | sp|Q3YT99|DNAJ\_EHRCJ | MSKSDYYELLGVSKNATSEEIKKAYRKMALKYHPDTNPGNKEAEEKFKELSEAYDVLIDQDKRAAYDKYGHNAFDGAAGRGGFDFNSGFSGDFSDIFNDLFGGGFGSRGGRGSSRRSEGAAGSDLRFDVEITLEDSFNGKKVPISYVTYVKCSSCSGSGSEGSAKSVQCNTCHGAGSVRTQQGFFTIERTCHVCNGEGEIIQNKCKKCSGSGRVRDEVNLLVTIPKGIESGNKIRLNGKGEAGYRGARSGDLYVYSNIQKHKFFTRSGPDLYCTVPIKMTLAALGGHIEMPSIDGTWTKVKVPEGSQSGDKLRLKEKGMPVINSSKRGDMYIQITVETPVKLTKKQKELLQKFDDEPNVDCNPQSTGFFQKVKSFWKDIRSN |
| 1307 | sp|Q7NBW0|DNAJ\_MYCGA | MSSKRDYYEILEVSRSATQQDIKKAFRKLAMKYHPDRNKDSDAEEKFKEVNEAYEVLSDEEKRKLYDTYGHEGLNASGFHQGGFNPYDVFNSVFSGFDFEGGFGDVFSQFFGGGGSGFHNQEYIEEVDVNLVHEIKINFLEAANGCIKNVKYTRQVTCPDCNGSGSADGDVITCSDCNGEGFLVEQRRTLLGMFQTKKTCPSCKGEGQTIKNKCKKCKSRRMVDEVVERKVSIDSNVFYQDVVIVRGEGHIYKNLVGDLFLRVKIEPSRVFELRDNHVVVNVLVDPLVAITGGTILIPTLKEIKEINLKAGTKNGDIITIANGGINLKLDSRVYGANYNQKGDLIVVINYARPSEYSKQEITKLKEFIKPNKEVNLYETLMKKELNNKDSQ |
| 1308 | sp|Q835R7|DNAK\_ENTFA | MSKIIGIDLGTTNSAVAVLEGGEAKIIANPEGNRTTPSVVSFKNGEIQVGEVAKRQAVTNPNTISSIKRHMGEAGYKVDVEGKSYTPQEVSAMILQYLKGFAEDYLGEKVEKAVITVPAYFNDAQRQATKDAGKIAGLEVERIVNEPTAAALAYGLDKTDKDEKILVFDLGGGTFDVSILELGDGVFDVLSTAGDNNLGGDDFDNKIIDYMVAEFKKENGIDLANDKMALQRLKDAAEKAKKDLSGVTSTQISLPFITAGEAGPLHLEMNLTRAKFDELTSDLVERTKVPVRQALKDAGLNPSEIDEVILVGGSTRIPAVVEAVRKETNKEPNKSVNPDEVVAMGAAIQGGVITGDVKDVVLLDVTPLSLGIETMGGVFTKLIDRNTTIPTSKSQVFSTAADNQPAVDIHVLQGERPMAADNKTLGRFQLTDIPAAPRGVPQIEVSFDIDKNGIVNVRAKDLGTQKEQTITIKSSSGLSDDEIERMVKDAEANAEADKQRKEEVDLRNDADALLFTVDKTLKELEGKVDAEEVKKAEDARDELKAAIEANDIEQMKAKRDSLNEIVQNLTVKLYEQAAQQQAQENPEAAQGGADDVVDADFEEVNGDDK |
| 1309 | sp|A5UF68|DNAK\_HAEIG | MGKIIGIDLGTTNSCVAVMDGDKARVIENAEGARTTPSIIAYTDNETLVGQPAKRQAITNPKNTLFAIKRLIGRRFESEEVQRDIKIMPFEITRADNGDAWVNVKGDKLAPPQISAEVLKKMKKTAEDFLGETVTEAVITVPAYFNDAQRQATIDAGKIAGLDVKRIINEPTAAALAFGLGSSKENQVIAVYDLGGGTFDISIIEIDNFDGEQTFEVLATGGNTHLGGEDFDNRVIDYIIDEFKKEQNIDLRNDAMALQRVKEAAEKAKIELSSAQSTEVNLPYITADATGPKHLALNITRAKLEALVEDLVASSIESLKTVLKDAGKGVSEIHDIILVGGQTRMPLVQQKVAEFFGKEARKDVNPDEAVAIGAAVQGGVLKGDVKDILLLDVTPLSLGIETMGGVMTTLIEKNTTIPTKKSQVFSTAEDNQSAVTIHVLQGERKRAADNKSLGQFNLEGINPAPRGMPQIEVTFDIDANGVINVSAKDKNTGKEQQIRIQASSGLSDEEIQQMVRDAEANADADRKFEEVVQARNQADGIAHATRKQIAEAGDVLSAADKEKIEAAVAELETAAKGEDKAEIEAKIEAVIKASEPLMQAAQAKAQQAGGEQPQQSSAKDDGVVDAEFEEVKDNK |
| 1310 | sp|Q9FPF0|DJ1A\_ARATH | MASFTKTVLIPIAHGTEPLEAVAMITVLRRGGADVTVASVETQVGVDACHGIKMVADTLLSDITDSVFDLIVLPGGLPGGETLKNCKSLENMVKKQDSDGRLNAAICCAPALALGTWGLLEGKKATGYPVFMEKLAATCATAVESRVQIDGRIVTSRGPGTTIEFSITLIEQLFGKEKADEVSSILLLRPNPGEEFTFTELNQTNWSFEDTPQILVPIAEESEEIEAIALVDILRRAKANVVIAAVGNSLEVEGSRKAKLVAEVLLDEVAEKSFDLIVLPGGLNGAQRFASCEKLVNMLRKQAEANKPYGGICASPAYVFEPNGLLKGKKATTHPVVSDKLSDKSHIEHRVVVDGNVITSRAPGTAMEFSLAIVEKFYGREKALQLGKATLV |
| 1311 | sp|Q4ZNP7|DNAK\_PSEU2 | MGRIIGIDLGTTNSCVSILENGNVKVIENAEGTRTTPSIIAYANDGEILVGQSAKRQAVTNPHNTLYAVKRLIGRKFEEDVVQKDIQMVPYKIVKADNGDAWVEVNGQKMAPPQISAEILKKMKKTAEDYLGEAVTEAVITVPAYFNDSQRQATKDAGRIAGLDVKRIINEPTAAALAYGMDKAKGDHTVIVYDLGGGTFDVSVIEIAEVDGEHQFEVLATNGDTFLGGEDFDIRLIDYFVDEFKKESGMNLKGDPLAMQRLKEAAEKAKIELSSSTQTEVNLPYITADATGPKHLVVKISRSKLESLVEDLVQRTIAPCEMALKDAGIDRSKINDVILVGGQTRMPLVQKLVTEFFGKEARKDVNPDEAVAMGAAIQGAVLAGDVKDVLLLDVSPLTLGIETMGGVMTALIEKNTTIPTKKSQVFSTADDNQNAVTIHVLQGERKQAAQNKSLGKFDLAEIPPAPRGVPQIEVTFDIDANGILHVGAKDKATGKQQSIVIKANSGLSEEEIQQMVRDAEVNSEEDRKFEELASARNQGDALVHSTRKMIADAGDKVTAEEKTAVEAALVALEAAIKGDDKAAIEAKVEELSKVSAPIAQKMYAEQAENPDAAAKPAEETAKADDVVDAEFEEVKDHK |
| 1312 | sp|Q5VI84|ANGI\_HORSE | MAMSLCPLLLVFVLGLGLTPPSLAQDDSRYRQFLTKHYDANPRGRNDRYCESMMVRRHLTTPCKDTNTFIHGSKSSIKAICGNKNGNPYGETLRISKTRFQVTTCKHAGGSPRPPCRYRATPGFRSIVIACENGLPVHFDESFFRP |
| 1313 | sp|P46668|ATHB6\_ARATH | MMKRLSSSDSVGGLISLCPTTSTDEQSPRRYGGREFQSMLEGYEEEEEAIVEERGHVGLSEKKRRLSINQVKALEKNFELENKLEPERKVKLAQELGLQPRQVAVWFQNRRARWKTKQLEKDYGVLKTQYDSLRHNFDSLRRDNESLLQEISKLKTKLNGGGGEEEEEENNAAVTTESDISVKEEEVSLPEKITEAPSSPPQFLEHSDGLNYRSFTDLRDLLPLKAAASSFAAAAGSSDSSDSSALLNEESSSNVTVAAPVTVPGGNFFQFVKMEQTEDHEDFLSGEEACEFFSDEQPPSLHWYSTVDHWN |
| 1314 | sp|Q4WVQ7|ATFB\_ASPFU | MLPEQSAFGRSAMPGSDAVNPGPSPFAPPPNSFSGDFLGLSLPDEEHLWGMSPLSSSMPSWNGKNEQMFSNPNLERDLKHSHVRNGQPTPPPYGDNKTHTVGDLYSLSQCQFSNGAQNFQTHNDRRSFCEQSAINSNGGSSKRRKVRDAKMTQAEYNEQQQEKAKREKFLERNRLAASKCRQKKKEHTQLLESRYREQSDKKEQLVSEIARLRSEILGLKNEVLKHAQCGDEPIKLHLAQMVKKITYNDTTAPDLTDVPDAASSSEGPMTPRPQQALSFGFDDPLHLEPSRADGSTDHSVRRDSEASVLTENSYAFSTDESFDDLINV |
| 1315 | sp|A2ZBV1|ASR5\_ORYSI | MAEEKHHHHLFHHKKDDEPATGVDSYGEGVYTSETVTTEVVAGGQDEYERYKKEEKQHKHKQHLGEAGALAAGAFALYEKHEAKKDPENAHRHKITEEIAATAAVGAGGYAFHEHHEKKKDHKSAEESTGEKKHHLFG |
| 1316 | sp|Q9T093|C70B3\_ARATH | MELISTINLLTIVLLLFVVSKIWKACWILLLRPLMLSKRFKKQGISGPKYKILYGNLSEIKKMKKEADLCVLDPNSNDIFPRVFPQYHQWMSQYGDTFLFWTGTKPTIYISNHELAKQVLSSKFGFTIIPVKRPEVFILFGKGLSFIQGDDWIRHRRILNPAFSMDRLKAMTQPMGDCTLRIFEEWRKQRRNGEVLIKIEISKEFHKLTADIIATTAFGSSYAEGIELCRSQTELEKYYISSLTNVFIPGTQYLPTPTNLKLWELHKKVKNSIKRIIDSRLKSKCKTYGYGDDLLGVMLTAAKSNEYERKMRMDEIIEECKNFYYAGQGTTSILLTWTTMLLSLHQGWQEKLREEVFNECGKDKIPDTDTFSKLKLMNMVLMESLRLYGPVIKISREATQDMKVGHLEIPKGTSIIIPLLKMHRDKAIWGEDAEQFNPLRFENGISQATIHPNALLPFSIGPRACIAKNFAMVEAKTVLTMILQQFQLSLSPEYKHTPVDHFDLFPQYGLPVMLHPLG |
| 1317 | sp|Q08854|CH60\_STAAU | MVKQLKFSEDARQAMLRGVDQLANAVKVTIGPKGRNVVLDKEFTAPLITNDGVTIAKEIELEDPYENMGAKLVQEVANKTNEIAGDGTTTATVLAQAMIQEGLKNVTSGANPVGLRQGIDKAVKVAVEALHENSQKVENKNEIAQVGAISAADEEIGRYISEATEKVGNDGVITIITIEESNRLNTELELGMQFDRGYQSPYMVTDSDKMVAELERPYILVTDKKISSFQDILPLLEQVVQSNRPILIVADEVEGDALTNIVLNRMRGTFTAVAVKAPGFGDRRKAMLEDLAILTGAQVITDDLGLDLKDASIDMLGTASKVEVTKDNTTVVDGDGDENSIDARVSQLKSQIEETESDFDREKLQERLAKLAGGVAVIKVGAASETELKERKLRIEDALNSTRAAVEEGIVAGGGTALVNVYQKVSENEAEGDIETGVNIVLKALTAPVRQIAENAGLEGSVIVERLKNAEPGVGFNGATNEWVNMLRRGIVDPTKVTRSALQHAASVAAMFLTTEAVVASIPEKNNDQPNMGGMPGMM |
| 1318 | sp|Q5VQK9|CEST\_ORYSJ | MALLSPPSPPPPLPPLRRRPASPTLLAVATRPSSLLSLPHCHCGLPLPSTANARAYSRSSRRRRRVAASLGQDEPGVSDTAVAPEGEGDSEPPASSDGAAGDIAASAEQPEASPEDLEDIRQVKRVLELLQKNRDMTFGEVKLTIMIEDPRDIERKRLLGIEDPDEITRDDLADALVEVNEGRIPENRVALQLLAKEMTEWPDLEMEAPKKKSKPGKSVYAKATDTGIDPETAAKRLNIDWDSAADLDDEEEEDDETEVPSAVGYSALYLLTAFPVIIGISVVLILFYNSLQ |
| 1319 | sp|P0A9Y0|CSPA\_ECOL6 | MSGKMTGIVKWFNADKGFGFITPDDGSKDVFVHFSAIQNDGYKSLDEGQKVSFTIESGAKGPAAGNVTSL |
| 1320 | sp|P70964|CSBD\_BACSU | MGNDSVKDKMKGGFNKAKGEVKDKVGDMADRTDMQAEGKKDKAKGEIQKDIGKAKDKFSDKD |
| 1321 | sp|P26154|CR14\_HORVU | MAKSLAVALRATGGARVMRRAGREREGCSDTRCRCQRWRRRLQGFGLAAAGGNRYRNKHHYRPAGGDPWDPCYRPMIISTSCAGATRS |
| 1322 | sp|Q01761|CSP7\_STRCL | MATGTVKWFNAEKGFGFIAQDGGGPDVFVHYSAINATGFRSLEENQVVNFDVTHGEGPQAENVSPA |
| 1323 | sp|Q84R11|CRSH\_ARATH | MSVIRPSPIPIPRCRSQVLHRRLYSIQLIQRRRRRWNPRSEVEDTAIESTARSPEAAGGKMVVELVGAFNEVTERMNSVWLSTSSSRLLFKALKLSIPILQSLPLASDGRSPLSKALSLSIILADLQMDAEVISASILSEVVDANAISIYEVRDHIGTGTAHLLHEIFRVKNIPFKVDVLDDETAASLRKFYLTYYDIRAVIMDLVSKLDEMRHLDHLPRYRQQILSLEVLKIYSPLAHAVGANHLSLELEDISFRYLFPCSYIYLDSWLRGHENGSKPLIDVYKEQLHRSLKDDLVLAEMVNDVYIKGRYKSRYSMMKKLLRDGRKPEEVNDVLGLRVILMPNSVVNDVEVGEKACYRTSEIIRSLWKEIPHRTKDYIARPKENGYRSLHMAVDVSDSDQIRPLMEIQIRTMDMDGSANAGTASHSLYKGGLTDPKEAKRLKAIMLAAADLAAIRLKDISSNKHQSFKTTTNQRDRVFCLLDKNGDGMISIEELMEVMEELGAPGEDAEEMMQLLDSNSDGSLSSDEFDTFQKQVEFMRKWEDRDNEYKSLLDEKLHDLPHQDTTGLIQLYNKELEDRLSTH |
| 1324 | sp|Q8D2Q6|DNAJ\_WIGBR | MAKSDYYDILGISKNASDREIKTAYKRLAVKFHPDRNPGNLEAESKFKEIKEAYEVLLDPKKRAAYNQYGHTAFDQGSSNTEFTSNADFSDIFGDVFGDIFGNNRRKRSNRGSDLQYNINLSLEEAVKGISKEITIPKLERCNICSGKGMQPGTSAQNCSTCNGQGQIQMRQGFFSVQQTCPSCRGKCKIIRFPCRNCSGQGRVERSKNISIRIPAGVDNGDKIRLSGEGEAGKLGGSSGDLYVKISVKEHPIFKREEHNLYCEVPINFAMAALGGDIEVPALDGRVKLRIPAETQTGRLFRMRGKGVKSIRSGHQGDLLCRVVVETPVRLSEKQKSLLKELGISFVGRTGMYNSPRSKSFFDGVKKFFDGLTN |
| 1325 | sp|A9L0R8|DNAK\_SHEB9 | MGKIIGIDLGTTNSCVAVLDGGKARVLENAEGDRTTPSIIAYTDDETIVGSPAKRQAVTNPTNTFFAIKRLIGRRFKDDEVQRDVNIMPFKIIAADNGDAWVESRGNKMAPPQVSAEILKKMKKTAEDFLGEEVTEAVITVPAYFNDSQRQATKDAGRIAGLDVKRIINEPTAAALAYGIDKKQGDNIVAVYDLGGGTFDISIIEIDSNDGDQTFEVLATNGDTHLGGEDFDNRLINYLADEFKKEQGLDLRKDPLAMQRLKEAAEKAKIELSSTNHTEVNLPYITADATGPKHLVIKITRAKLESLVEDLIIRTLEPLKVALADADLSVTDINEVILVGGQTRMPKVQEAVTNFFGKEPRKDVNPDEAVAVGAAIQAGVLSGDVKDVLLLDVTPLSLGIETMGSVMTKLIEKNTTIPTKAQQVFSTADDNQSAVTIHVLQGERKQASANKSLGQFNLDGIEPAQRGQPQIEVMFDIDADGILHVSATDKKTGKKQNITIKASSGLSEEEVAQMVRDAEAHADEDKKFEELVQSRNQADGLVHATKKQVEEAGDALPSEDKEKIQAAMDAVDTAIKGNDKEAIEKATQELIEASAKLMEIAQAKSQAQGGDNADAGKQANATADDVVDAEFEEVKDDKK |
| 1326 | sp|B9L8Z0|DNAK\_NAUPA | MGKVIGIDLGTTNSAMAYYDGKDAKIIANKEGRNTTPSVVAFTDKGEVLVGEPAKRQAITNPERTIYSVKRIMGMMCNEPKAQEAKKHVQYKIVDKNGACAVEVDGKVYTPQEISAKILMKLKKDAEEFFGEEVTEAVITVPAYFNDSQRKATQEAGKIAGLNVLRIINEPTAAALAYGLDKKGEEKILVYDLGGGTFDVTVLEIGDGTFQVLATDGNAFLGGDDFDNRIVDWLISEFKAETGIDLSQDKMALQRLKDAAEQAKKELSTKEETEINLPFITADASGPKHLVKKLTRAKFEAMIDDLLQETLRHIDTALEDAGLSKDEIDEIVMVGGSTRIPKVQELVSNYFNGKKLNKSVNPDEVVALGAAIQAGVLKGDVKDVLLLDVTPLSLGIETLGGVMTKIIEKGTTIPVKKSQVFSTAEDNQTAVTIHVLQGEAELAKDNKSLGQFNLEGIPPAPRGVPQIEVTFDIDANGVLNVSAKDKTSGKEQKITITGSSTLSEEEIERMVREAEEANRKEKARIEAIKARNELDAVAYQAEKFINDNKDKLGDVSALEAKIKEAKELIEQQSEDKAKIEALKNEINTELQNVAQNMAQQQQAQGGAQQQNQNKGGDDDVIDAEVE |
| 1327 | sp|A1UUC3|DNAK\_BARBK | MAKVIGIDLGTTNSCVAVMDGKNAKVIENSEGARTTPSVVAFTDSGERLVGQPAKRQAVTNPEGTVFAVKRLIGRRFDDPMVEKDKALVPYKIVKGDNGDAWVEENSKKYSPSQISAMILQKMKETAESYLGEKVEQAVITVPAYFNDAQRQATKDAGKIAGLEVLRIINEPTAAALAYGLDKKDGKTIAVYDLGGGTFDISVLEIGDGVFEVKSTNGDTFLGGEDFDMCLVSYFADEFKKEQGIDLKNDKLALQRLKEAAEKAKIELSSSQQTEVNLPFITADQSGPKHLTMKLTRAKFESLVDDLVQRTIEPCKAALKDAGLRAGEIDEVVLVGGMTRMPKIQEVVQNFFGKDPHKGVNPDEVVAMGAAIQGGVLQGDVKDVLLLDVTPLSLGIETLGGVFTRLIERNTTIPTKKSQTFSTADDNQNAVTIRVFQGEREMANDNKLLAQFDLVGIPPAPRGVPQIEVTFDIDANGIVNVSAKDKGTGKEHQIRIQASGGLSDADIENMVKDAESHAAEDKKRRENVEAKNQAEALIHSTEKSLTEYGDKVSAEDKGQIEAAIADLKAVLDGDNSEEVKAKMQKLAEVSMKLGQAMYEASNASAEADAVADSANDDVVDADFEEINDKKK |
| 1328 | sp|A0QQC8|DNAK\_MYCS2 | MARAVGIDLGTTNSVVAVLEGGDPVVVANSEGSRTTPSVVAFARNGEVLVGQPAKNQAVTNVDRTIRSVKRHVGTDWNIEIDDKKYTPQEISARVLMKLKRDAESYLGEDITDAVITVPAYFNDAQRQATKEAGQIAGLNVLRIVNEPTAAALAYGLDKGEKEQTILVFDLGGGTFDVSLLEIGDGVVEVRATSGDNHLGGDDWDDRIVTWLVDKFKGSSGIDLTKDKMAMQRLREAAEKAKIELSSSQSTSINLPYITVDADKNPLFLDEQLTRAEFQRITQDLLDRTRQPFQQVIKDAGISVSDIDHVVLVGGSTRMPAVTDLVKELTGGKEPNKGVNPDEVVAVGAALQAGVLKGEVKDVLLLDVTPLSLGIETKGGVMTKLIERNTTIPTKRSETFTTADDNQPSVQIQVYQGEREIASHNKLLGSFELTGIPPAPRGVPQIEVTFDIDANGIVHVTAKDKGTGKENTIKIQEGSGLSKEEIDRMIKDAEAHAEEDRKRREEADVRNQAESLVYQTEKFVAEQRGAASDGGGSKVPEETLAKVDSAIADAKKALEGTDISAIKSAMEKLGVESQALGQAIYEATQAEQPAGGSDNGAPGDDNVVDAEVVDDDAGKENK |
| 1329 | sp|Q1G9R3|DNAJ\_LACDA | MAANRDYYDVLGVSRDASDAEISKAYRKLAKKYHPDLNHEAGAEEKYKEVNEAYEVLHDPQKRQQYDQFGQAGMNGQGGFGGQYGGQGFGGADFGDFGDIFSSFFGGARQQVDPTAPQRGADLDYTMTIDFMDAIKGKTSEISYSRSTTCEVCKGSGAEKGTHPITCDKCGGSGMMTITQRSVLGMIQRQTTCDKCTGSGVIIQHPCHNCHGKGVKTQKQTLQVKVPAGIDNGQQIRLAGQGEAGKNGGPYGDLYIVFRVRPSKDFTRRGQTIYTTVPISFAQATLGDEINVKTVYGDTKLKIPAGTQPNQKFTLKEKGVPSLRGGSTGDQVTTVEIVIPKSINEAQRKALLEFVKASGGSIAPQEKGFFERLKEKLS |
| 1330 | sp|Q0TLX5|DNAK\_ECOL5 | MGKIIGIDLGTTNSCVAIMDGTTPRVLENAEGDRTTPSIIAYTQDGETLVGQPAKRQAVTNPQNTLFAIKRLIGRRFQDEEVQRDVSIMPFKIIAADNGDAWVEVKGQKMAPPQISAEVLKKMKKTAEDYLGEPVTEAVITVPAYFNDAQRQATKDAGRIAGLEVKRIINEPTAAALAYGLDKGTGNRTIAVYDLGGGTFDISIIEIDEVDGEKTFEVLATNGDTHLGGEDFDSRLINYLVEEFKKDQGIDLRNDPLAMQRLKEAAEKAKIELSSAQQTDVNLPYITADATGPKHMNIKVTRAKLESLVEDLVNRSIEPLKVALQDAGLSVSDIDDVILVGGQTRMPMVQKKVAEFFGKEPRKDVNPDEAVAIGAAVQGGVLTGDVKDVLLLDVTPLSLGIETMGGVMTTLIAKNTTIPTKHSQVFSTAEDNQSAVTIHVLQGERKRAADNKSLGQFNLDGINPAPRGMPQIEVTFDIDADGILHVSAKDKNSGKEQKITIKASSGLNEDEIQKMVRDAEANAEADRKFEELVQTRNQGDHLLHSTRKQVEEAGDKLPADDKTAIESALTALETALKGEDKAAIEAKMQELAQVSQKLMEIAQQQHAQQQTAGADASANNAKDDDVVDAEFEEVKDKK |
| 1331 | sp|B3WEQ7|DNAK\_LACCB | MSKVIGIDLGTTNSAVAVLEGNQPKIITNPEGNRTTPSVVAFKDGEIQVGEVAKRQAITNPDTIVSIKRHMGEANYKVKVGDKEYTPQEISAMILQYIKKFSEDYLGEPVKDAVITVPAYFNDSQRQATKDAGKIAGLNVQRIINEPTASALAYGLDKGDKDEKILVYDLGGGTFDVSILQLGDGVFEVLSTNGDTHLGGDDFDNKIIDWLVAEFKKDNNIDLSKDKMAMQRLKDAAEKAKKDLSGVTQTQISLPFISAGPNGPLHLERTLTRAQFDEMTADLVAKTKIPVENALKDAKLTNADIDKVILNGGSTRTPAVQEAVKQWTGKDPDHSINPDEAVALGAAIQGGVISGDVKDVVLLDVTPLSLGIETMGGVFTKLIDRNTTIPTSKSQVFSTAADSQPAVDIHVLQGERPMAADDKTLGRFELTDIPPAPRGVPQIEVKFDIDKNGIVQVSAKDLGTGKSQNITIKSSSGLSDEEIERMKKEAEENADADEKRKEEVDLKNDVDQLLFQTDKTLKDVDGKVPEEDIKKVKDAQEALKKAQQENNLDDMKQKRDDLSKLVQDMTVKLYENAQKNQQAQGGPASGAATDAGAAQGSDDKKSDDDTINGDYKDVSDDDKK |
| 1332 | sp|Q2GLU9|DNAJ\_ANAPZ | MGSNDYYDLLGVSRGASEEEIKKSYRKKVFEYHPDRNPGNKEAEEKFKKISEAYDVLTDSDKRAAYDRYGHSAFANGMGGNQGFTGGFDGGFSTDFSDIFNDFFGGGFGKTSRQSSRENMRGSDLRYDIEVTLEDAFKGVKVPISYVTHVQCSHCSGSGGEGTAKSVKCGTCNGAGRIRTRKGFLTIEELCHTCSGEGEVVKNKCKRCAGSGRVRNEVGILVTVPRGIENGNKVRVNGKGEAGYRGARSGDLYVYVVVKDHKFFTRRGMDLYCNVPIKMTLAALGGEIEMPSIDGTWTKLKIPEGTQSNDKLRMRGKGMPDIQGGERRGDMYVQVTVETPVKLTKKQEELLKQFEDESNANSSPKFSGFFQKIKGIWKDISS |
| 1333 | sp|C4ZPU1|DNAJ\_ECOBW | MVKQDYYEILGVSKTAEEREIRKAYKRLAMKYHPDRNQGDKEAEAKFKEIKEAYEVLTDSQKRAAYDQYGHAAFEQGGMGGGGFGGGADFSDIFGDVFGDIFGGGRGRQRAARGADLRYNMELTLEEAVRGVTKEIRIPTLEECDVCHGSGAKPGTQPQTCPTCHGSGQVQMRQGFFAVQQTCPHCQGRGTLIKDPCNKCHGHGRVERSKTLSVKIPAGVDTGDRIRLAGEGEAGEHGAPAGDLYVQVQVKQHPIFEREGNNLYCEVPINFAMAALGGEIEVPTLDGRVKLKVPGETQTGKLFRMRGKGVKSVRGGAQGDLLCRVVVETPVGLNERQKQLLQELQESFGGPTGEHNSPRSKSFFDGVKKFFDDLTR |
| 1334 | sp|B7N7N9|DNAJ\_ECOLU | MAKQDYYEILGVSKTAEEREIKKAYKRLAMKYHPDRNQGDKEAEAKFKEIKEAYEVLTDSQKRAAYDQYGHAAFEQGGMGGGGFGGGADFSDIFGDVFGDIFGGGRGRQRAARGADLRYNMELTLEEAVRGVTKEIRIPTLEECDVCHGSGAKPGTQPQTCPTCHGSGQVQMRQGFFAVQQTCPHCQGRGTLIKDPCNKCHGHGRVERSKTLSVKIPAGVDTGDRIRLAGEGEAGEHGAPAGDLYVQVQVKQHPIFEREGNNLYCEVPINFAMAALGGEIEVPTLDGRVKLKVPGETQTGKLFRMRGKGVKSVRGGAQGDLLCRVVVETPVGLNEKQKQLLQELQESFGGPTGEHNSPRSKSFFDGVKKFFDDLTR |
| 1335 | sp|B7KEJ8|DNAJ\_GLOC7 | MPGDYYEILGVSRDANKDEIKRAYRRLARKYHPDVNKEIGAEERFKEINRAYEILSEPETRARYDRFGEAGVSSGAGSGFEYGDMGGIADIFETIFSGFGGMGTGTSSRRRTGPVRGDDLRLDFKLNFREAVFGGEKEIRIRHLETCQVCEGSGAKPGTGSRTCSTCSGSGQVRRATRTPFGTFAQVSVCPTCNGSGEVIEEKCEACGGSGRKQETKKLKITIPAGVDNGTRLRVSREGDAGQRGGPPGDLYVYLSVETDEEFQREGIDIKSEISISYLQAILGCRLSVNTVDGPEEITIEPGTQPNTVLTLPNRGVPKLGNPVARGDHLITINVSIPTRVNPEERELLEKLAKIRGESHGKGGIEGFLGGLFHK |
| 1336 | sp|Q8WN63|ANGI\_MACMU | MVMGLGLFLLVFMLGLGLTPPTLAQDNPRYRDFLAKHYDATPQGRNDRYCESTMRRRHLTSPCKDINTFVHGNRHHITAICGDENGSPYGGNLRISTSPFQVTTCKLRGGSPRPPCQYRATRGSRNIVVGCENGLPVHLDESIFRP |
| 1337 | sp|Q9FIL1|BSK5\_ARATH | MGPRCSKLSLCWWPTHLKSTHNEASDLDNGTDDLPSFTEFSFDQLRAATCGFSTDSIVSEHGVKAPNVVYKGRLEDDRWIAVKRFNRSAWPDTRQFLEEAKAVGQLRNERLANLIGFCCEGDERLLVAEFMPFETLSKHLFHWDSQPMKWSMRLRVALYLAQALEYCSSKGRALYHDLNAYRILFDQDGNPRLSCFGLMKNSRDGKSYSTNLAFTPPEYLRTGRVIPESVVYSFGTLLLDLLSGKHIPPSHALDLIRGKNFLMLMDSCLDGHFSNDDGTDLVRLASRCLQYEARERPNVKSLVSSLAPLQKETDIPSHVLMGIPHGAASPKETTSLTPLGDACSRHDLTAIHEILEKVGYKDDEGVANELSFQVWTDQIQETLNSKKQGDAAFKGKDFVTAVECYTQFIEDGTMVSPTVFARRCLCYLMSNMPQEALGDAMQAQVVSPEWPTAFYLQAAALFSLGMDKDACETLKDGTSLEAKKHNNRN |
| 1338 | sp|B9J1H1|CH10\_BACCQ | MLKPLGDRVVIELVQAEEKTASGIVLPDTAKEKPQEGKVIAVGTGRVLENGERVALEVAAGDLIIFSKYAGTEVKYEGTDYLILRESDILAVIG |
| 1339 | sp|Q9LSP8|CMTA6\_ARATH | MDGDGLGRLIGSEIHGFHTLQDLDVQTMLEEAKSRWLRPNEIHAILCGRIILFDRKMLRNFRKDGHNWKKKKDGRTVKEAHEHLKVGNEERIHVYYAHGEDNTTFVRRCYWLLDKARENIVLVHYRDTQEAATTSGDSISSPISVSEQTFPNRVAAEDIDTVVRNHDISLHDINTLDWDELLVPTDLNNQSAPTVDNLSYFTEPLQNAANGTAEHGNATVADGSLDALLNDGPQSRESFGRWMNSFISESNGSLEDPSFEPMVMPRQDPLAPQAVFHSHSNIPEQVFNITDVSPAWAYSSEKTKILVTGFLHDSYQHLERSNLYCVCGDFCVPAEYLQAGVYRCIIPPHSPGMVNLYLSADGHKPISQCFRFEHRAVPVLDKTVPEDNQDSKWEEFEFQVRLSHLLFTSSNKLNVLSSKISPHNLRDAKKLASKTNHLLNSWAYLVKSIQGNKVSFDQAKDHLFELSLKNRLKEWLMEKVLEGRNTLDYDSKGLGVIHLCASLGYTWSVQLFSLSGLSLNFRDKQGWTALHWAAYYGREKMVAALLSAGARPNLVTDSTKDNLGGCMAADLAQQNGYDGLAAYLAEKCLVAQFRDMKIAGNITGDLEACKAEMLNQGTLPEDEQSLKDALAAYRTAAEAAARIQGAFREKALKAARSSVIQFANKEEEAKSIIAAMKIQNAFRKYDTRRKIEAAYRIQCRFQTWKIRREYLNMRRQAIRIQAAFRGLQARRQYKKILWSVGVLEKAVLRWRQKRKGFRGLQVAAEEDSPGEAQEDFYKTSQRQAEERLERSVVRVQAMFRSKKAQQDYRRMKLTHEEAQVNHLTFLNLSFGKKNSNRR |
| 1340 | sp|Q5RF83|CIRBP\_PONAB | MASDEGKLFVGGLSFDTNEQSLEQVFSKYGQISEVVVVKDRETQRSRGFGFVTFENIDDAKDAMMAMNGKSVDGRQIRVDQAGKSSDNRSRGYRGGSAGGRGFFRGGRGRGRGFSRGGGDRGYGGNRFESRSGGYGGSRDYYSSRSQSGGYSDRSSGGSYRDSYDSYATHNE |
| 1341 | sp|Q6N1H2|CLPB\_RHOPA | MNVEKYTERVRGFIQSAQSLAMREGHQQFSPLHILKVLLDDSEGLAGGLIDRAGGNSRAILKATEEALGKMPKVSGSGAGQVYLAPATARAFDAAEKAAEKAGDSFVTVERLLLALSLDKDSEAGQLLTKGGVTPQNLNAAINALRKGRTADSATAENAYDALKKYARDLTQAARDGKLDPVIGRDEEIRRTIQVLSRRTKNNPVLIGEPGVGKTAIVEGLALRILNGDVPESLKDKKLLALDMGALIAGAKYRGEFEERLKAVLNEVTAAEGGIILFIDEMHTLVGAGKADGAMDASNLLKPALARGELHCIGATTLDEYRKHVEKDAALARRFQPVFVSEPTVEDTVSILRGLKDKYEQHHGVRIADSALVAAVTLSNRYITDRFLPDKAIDLMDEAAARLKMQVDSKPEELDSMDREIVRLKIEQEALKKETDPGSKARLVTLEKELADLEEKSAALTQRWSAEKNKLSDAQKLKSELDALRIELANAQRRGEYQRAGELAYGRIPELEKKIAEIEANENSGAMVEEAVTANHIAQVVSRWTGVPVDKMLEGEKEKLLRMEEQLGQRVVGQFEAVHAVSTAVRRARAGLQDPNRPMGSFMFLGPTGVGKTELTKALAEYLFDDETAMVRIDMSEFMEKHSVARLIGAPPGYVGYDEGGVLTEAVRRRPYQVILFDEIEKAHPDVFNVLLQVLDDGRLTDGQGRTVDFRNTLIVMTSNLGSEYLVNQPEGEDTGAVREQVMGMVRAHFRPEFLNRVDEIILFHRLQKSEMGRIVDIQFARLTKLLEDRKIVLDLDAAARDWLAEKGWDPAYGARPLKRVIQRSVQDPLAEMILEGSVKDGDHVAISAEGGVLTFNGKPPHTAEVEPFTGRPPKRMLN |
| 1342 | sp|Q7N788|CLPB\_PHOLL | MRLDRLTNKFQLALADAQSFALGHDNQFIEPIHLMSSLLKQEGGSIRPLLTSIGIDAGRFSNQLELALERLPRVQGIGGDVQPSNDLVRHLNLCDKLAQKAGDNFISSELFVLAALEERGTLSDILKAVGATKEKITKAIEQMRGGEKVDDQGAEDQRQALKKYTIDLTERAEQGKLDPVIGRDEEIRRTIQVLQRRTKNNPVLIGEPGVGKTAIVEGLAQRIINGEVPEGLKNKRVLSLDMGALLAGAKYRGEFEERLKGVLNDLAKQEGNVILFIDELHTMVGAGKADGAMDAGNMLKPALARGELHCVGATTLDEYRQYIEKDAALERRFQKVYVAEPSVEDTIAILRGLKERYELHHHVQITDPAIVAAATLSHRYISDRMLPDKAIDLIDEAGASLRMQMDSKPEALDRLERRVIQLKLEQQALKKESDDASKKRLEMLNEELLVKEREYSELEEEWKAEKAALTGTQHIKAELENARISLEQARRSGDLAKMSEIQYGKIPGLEKQLAAATQAESKHMKLLRNKVTDAEIADILARWTGIPVARMLESEKDKLLRMEQELHKRVIGQDEAVNAISNAIRRSRAGLADPNRPIGSFLFLGPTGVGKTELCKALANFLFDSDDAMVRIDMSEFMEKHAVSRLVGAPPGYVGYEEGGYLTEAVRRRPYSVILLDEVEKAHSDVFNILLQVLDDGRLTDGQGRTVDFRNTVVIMTSNLGSDMIQERFGSLNYDEMKDIVMGIVSHNFRPEFINRIDEAVVFHPLGRRHLSAIADIQLQRLYKRLEERGYQVTITQQALEILAEAGFDPVYGARPLKRAIQQEIENPLAQKILSGQLLPGKPVTLDVENSHIVAKQ |
| 1343 | sp|Q71XF9|CLPB\_LISMF | MDLQKFTQQVQQTIADAQNLAIASEHQEIDVAHVFKVLLTESDFAKRVYDVAEVDIDALQKTVEDALTKIPVVSGSGVNYGQAMSQALFQLMRDAEKEQKQLDDDFVSTEHLILAVMDQKSNPITMNLKKQHKSKKQIQEAILKIRGGKKVTSQNAEENYEALTKYGRDLVAEVRSGKLDPVIGRDAEIRNVIRILSRKTKNNPVLIGEPGVGKTAIVEGLAQRIVRKDVPEGLKDKTIISLDIGSLIAGAKYRGEFEERLKAVLQEVKQSDGQILLFIDEIHTIVGAGKTDGAMDAGNMLKPMLARGELHCIGATTLDEYRQYIEKDAALERRFQKVLVPEPTVEDTVSILRGLKERFEIHHGVNIHDNALVAAASLSNRYITDRFLPDKAIDLVDEACATIRVEIDSMPSELDEVTRKVMQLEIEEAALKEEKDPASERRLEILQRELADYKEEANQMKSKWESEKNEISKIREVREQIDHLRHELEEAENNYDLNKAAELRHGKIPAVEKELLELEAENREKTAQEDRILQEEVTENEIAEIVGRWTGIPVTKLVEGEREKLLKLADELHQKVIGQDDAVQLVSDAVLRARAGIKDPKRPIGSFIFLGPTGVGKTELAKALAFNMFDSEDHMIRIDMSEYMEKHSVSRLVGAPPGYVGYEEGGQLTEAVRRNPYSIVLLDEIEKAHPDVFNILLQVLDDGRITDSQGRLIDFKNTVIIMTSNIGSNLLLERTEEGEISPELESDVMQILQSEFKPEFLNRVDDIILFKPLTLADIKGIVEKLVEELQIRLADQEITITISDNAKAFIAEEAYDPVYGARPLKRYIVRHVETPLAREIVSGKIMPHSSVEIDLADKEFTFKVTE |
| 1344 | sp|Q7W9E6|CLPB\_BORPA | MRFDKLTTKFQQALADAQSLAARNDHPYIEPVHVLAALLGDPDSGAASLLARAGVAVNRVQPAIDSALKGLPQVQGEDNVQVGRELQSVLVRTDKEAARRGDTYIASELFLLALADDKGDAGRILREAGLQKKALEAAIDAVRGGENVSGAEGESNREALSKYTLDLTERARQGKLDPVIGRDDEIRRTIQILQRRTKNNPVLIGEPGVGKTAIVEGLAQRIVNDEVPETLRGKRVLSLDLAALLAGAKFRGEFEERLKAVLKELAQDDGQNIVFIDELHTMVGAGKAEGAMDAGNMLKPALARGELHCIGATTLDEYRKYIEKDAALERRFQKVLVGEPDVESTIAILRGLQERYELHHGVEITDPAIVAAAELSHRYITDRFLPDKAIDLIDEAGARIRMEIDSKPEVMDRLDRRIIQLKIEREAVKKETDDASMRRLAVIEEELEKLQREYNDYEEIWKAEKAAVQGTQAIKEEIDRVRAEMAELQRKGQFDKLAELQYGKLPELEARLKAADSAEREAGESDSGKPRLLRTQVGAEEIAEVVSRATGIPVAKMMQGERDKLLRMEDFLHKRVVGQDEAVRLVSDAIRRSRAGLADPSRPYGSFLFLGPTGVGKTELTRALADFLFDSEEHMIRIDMSEFMEKHSVARLIGAPPGYVGYEEGGYLTEAVRRKPYSVILLDEVEKAHPDVFNVLLQVLDDGRLTDGQGRTVDFRNTVIVMTSNLGSQHIQSMAGKPYEVIKEVVWDELKHTFRPEFLNRIDEVVVFHGLEAQHIESIARIQLKRLGERLEKQEMRLDVSDAALAEIARSGFDPVFGARPLKRAVQQQIENPVAKLILEGVFGPRDVVPVDWQDGKFVFTRTLQ |
| 1345 | sp|Q46051|CSPA\_CITFR | DKGFGFITPDDGSKDVFVHFSAIQNDGYKSLDEGQKVSFTIESGAK |
| 1346 | sp|P96349|CSP2\_LACPL | MKNGTVKWFNADKGFGFITGEDGTDVFVHFSAIQTDGFKTLDEGQKVTYDEEQGDRGPQATNVQPQ |
| 1347 | sp|A2XX57|COLD1\_ORYSI | MGWGAVVYEGGVVGASLVGLGWAGLWFLNRRLYKEYEERRALVQILFGLVFAFSCNLFQLVLFEILPVLSKHARFLNWHLDLFCLILLLVFVLPYYHCYLLLRNSGVRRERALLVAALFLLVFLYGFWRMGIHFPMPSPEKGFFTMPQLVSRIGVIGVSVMAVLSGFGAVNLPYSYLSLFIREIDEMDIKTLERQLMQSMETCIAKKKKIVLSKMEMERIQGSEEKLKARSFLKRIVGTVVRSVQEDQTEQDIKSLDAEVQALEELSKQLFLEIYELRQAKIAAAFSRTWRGHAQNLLGYALSVYCVYKMLKSLQSVVFKEAGSVDPVTMTITIFLRHFDIGIDVTLLSQYISLIFIGMLVVISVRGFLANVMKFFFAVSRVGSGSTTNVVLFLSEIMGMYFISSILLIRKSLANEYRVIITDVLGGDIQFDFYHRWFDAIFVASAFLSLLLISAQYTSRQTDKHPID |
| 1348 | sp|Q9PL97|DEGPL\_CHLMU | MMKRLLCVLLSTSVFSSPMLGYSAPKKDSSTGICLAASQSDRELSQEDLLKEVSRGFSKVAAQATPGVVYIENFPKTGSQAIASPGNKRGFQENPFDYFNDEFFNRFFGLPSHREQPRPQQRDAVRGTGFIVSEDGYVVTNHHVVEDAGKIHVTLHDGQKYTAKIIGLDPKTDLAVIKIQAKNLPFLTFGNSDQLQIGDWSIAIGNPFGLQATVTVGVISAKGRNQLHIVDFEDFIQTDAAINPGNSGGPLLNIDGQVIGVNTAIVSGSGGYIGIGFAIPSLMAKRVIDQLISDGQVTRGFLGVTLQPIDSELAACYKLEKVYGALITDVVKGSPAEKAGLRQEDVIVAYNGKEVESLSALRNAISLMMPGTRVVLKVVREGKFIEIPVTVTQIPAEDGVSALQKMGVRVQNLTPEICKKLGLASDTRGIFVVSVEAGSPAASAGVVPGQLILAVNRQRVSSVEELNQVLKNAKGENVLLMVSQGEVIRFVVLKSDE |
| 1349 | sp|A1U614|DNAK\_MARHV | MSKIIGIDLGTTNSCVAIMDGDKVKVIENAEGDRTTPSIIAYTDDNETLVGQSAKRQAVTNPHNTLYAIKRLIGRRFEDDVVQKDIKMVPYKIAKADNGDAWVEVKGQKMAPPQVSAEVLKKMKKTAEDYLGEKVTEAVITVPAYFNDSQRQATKDAGKIAGLEVKRIINEPTAAALAYGLDKKSGDRTVAVYDLGGGTFDLSIIEIADVDGEHQFEVLATNGDTFLGGEDFDLKVIEYLADQFKKDSGIDLRGDSLAMQRLKEAAEKAKIELSSSQQTDVNLPYITADASGPKHMNVKLTRAKLESLVEDLVQRSLEPCKVALQDAGMKAGEIDEVILVGGQTRMPLVQEKVKEFFGKEPRKDVNPDEAVAMGAAIQGAVLSGDVKDVLLLDVTPLTLGIETMGGVATPLIEKNTTIPTKKSQIFSTADDNQTAVTIHVVQGERKQAAQNKSLGRFDLADIPPAPRGVPQIEVTFDIDANGILNVSAKDKATGKEQSIVIKASSGLNDDEIEKMVRDAEANAEEDRKFEELVQARNQGDAMVHAVRKTLSEAGDKVSDSEKESIEAAIKDLEEALEGSDKEAIEAKTQKLTEVSSELAQKMYADQADQAQQAGGQEEGQAKSADDAVDAEFEEVKDDDKK |
| 1350 | sp|A9W6R7|DNAK\_METEP | MGKVIGIDLGTTNSCVAVMEGTQPRVIENAEGARTTPSIVAFTDDGERLVGQPAKRQAVTNPERTFFAIKRLIGRTYDDPLTQKDKGLVPYKIARGDNGDAWVEADGKKYSPSQISAFTLQKMKETAESHLGQPVTQAVITVPAYFNDAQRQATKDAGKIAGLEVLRIINEPTAAALAYGLDKKKAGTIAVYDLGGGTFDVSILEIGDGVFEVKSTNGDTFLGGEDFDNRVVEYLTAEFKKEQGIDLTKDKLALQRLKEAAEKAKIELSSATQTEINLPYITADASGPKHLALKLSRAKFESLVDDLVQRTIEPCRKALKDAGVSASEIDEVVLVGGQTRMPKVQEVVKAFFGKEPHKGVNPDEVVAIGAAVQAGVLQGDVKDVLLLDVTPLSLGIETLGGVFTRLIDRNTTIPTKKSQVFSTAEDNQNAVTIRVFQGEREMAADNKLLGQFDLVGIPPAPRGMPQIEVTFDIDANGIVNVTAKDKATNKEHQIRIQASGGLSDADIEKMVKDAEANAEADKKRRELVEVKNQGESLIHATEKSVSEYGDKVSAADKGAIESAITALRSALEGEDAEGIKAKTNDLMQASMKLGEAMYAASQTEGAPGADGAASTDEKKDDVIDADFQEVDENERKKRA |
| 1351 | sp|Q1LST3|DNAK\_BAUCH | MGKIIGIDLGTTNSCIAIVEGTKTRVLENSEGDRTTPSIVAYTQDGEILVGQPAKRQSATNPKNTLFAIKRLIGRRFEDEEVQRDVDIMPYKIIAADNGDAWLEIKGQKIAPPQVSAEILKKMKKTAEDYLGESVTEAVITVPAYFNDTQRQATKDAGRIAGLEVKRIINEPTAAALAYGLDKEIGNRTIAVYDLGGGTFDISIIEIDDVDGEKTFEVLATNGDTHLGGEDFDSRLINYLVDEFKKDQGIDLRNDPLAMQRLKEAAEKAKIELSAAQQTDVNLPYITADSTGPKHMNLKITRAKLESLVEDLVNRTMDPLKVALTDASLSISDIKDVILVGGQTRMPLVQKKVTDFFCKEPRKDVNPDEAVAIGAAVQGGVLSGNVKDVLLLDVTPLSLGIETMGGVMTALIAKNTTIPTKHSQIFSTAEDNQSAVTIHVLQGERKRAMDNKSLGQFNLDGIAPAMRGIPQIEVTFDIDADGILHVSAKDNNSGREQKITIKASSGLSEEEIKKMVREAEANAESDRKFEELVQTRNQADNLMHSTRKQLAEYGNQLLQEDRNAIENAIQSLNTALKGESKTDIETNIQSLIQVSSKLLKLTQQQNQATNDNVKTDGNVVDAEFEEVKDKK |
| 1352 | sp|B1KRT2|DNAK\_SHEWM | MGKIIGIDLGTTNSCVAVLDGDKARVLENAEGDRTTPSIIAYTGEETLVGQPAKRQAVTNPTNTFFAIKRLIGRRFKDDEVQRDVDIMPFKIIGADNGDAWVEAHDKKMAPPQVSAEILKKMKKTAEDFLGEEVTEAVITVPAYFNDSQRQATKDAGRIAGLEVKRIINEPTAAALAYGIDKKQGDNIVAVYDLGGGTFDISIIEIDSVDGEQTFEVLATNGDTHLGGEDFDNRLIKYLADEFEKEQGMNLRNDPLAMQRLKEAAEKAKIELSSTTQTEVNLPYITADASGPKHLVVKVTRAKLESLVEDLVTRTLEPLKVALADADLSVSDVNEVILVGGQTRMPKVRAEVSAFFGKELRQDVNPDEAVAIGAAVQAGVLSGDVKDVLLLDVTPLSLGIETMGSVMTKLIEKNTTIPTKASQTFSTADDNQAAVTIHVLQGERKQSSGNKSLGQFNLEGIEPAPRGMPQIEVAFDIDADGILHVSATDKKTGKAQNITIKASSGLSDEEVEAMVRDAEAHADEDAKFEELVTARNQADGMVHATKKQIEEAGEALPAEDKEKIETAMSAVETAVKGSDKEAIEKSTQELMEASSKLMEIAQAKAQAEQGQQAPEGEAQAAKPDEDVVDAEFEEVKDDKK |
| 1353 | sp|B3EKT9|DNAK\_CHLPB | MGKIIGIDLGTTNSCVAVMQGTKPTVIENSEGYRTTPSMVAFTKNGERLVGHAAKRQAITNAENTIFSIKRFMGRKFDEISNEKKIAPYKVTNVNGEARVEIGDKTYSPQEISAMILQKMKQTAEDFLGEKVTEAVITVPAYFNDAQRQATKDAGKIAGLEVKRIINEPTAASLSYGLDTKNENEKVAVFDLGGGTFDISILELGDGVFEVKSTDGDTHLGGDDFDQKIIDFLADEFKKQEGIDLRNDMMALQRLKEAAEKAKVELSSRTDTEINLPFITATQEGPKHLVVNLTRSKFEALCSDLFDSLIAPCKRAIKNSKLKTSEINEVVLVGGSTRIPKVQALVEELFGREPNRSVNPDEVVAVGAAIQGGVLSGDVSDVLLLDVTPLSLGIETLGGVMTKLIEANTTIPSKKQEVFSTAADNQTSVEVHVLQGERPMASDNKTLGRFHLGDIPPAPRGVPQIEVAFDIDSNGILHVSAKDKATGKEQSIRIEASGKLNDAEIEKMKEDAKTHAAEDEKRKEAIDLKNSADALIFSTEKQLGELGDKVPADKKTQLEEALEKLKEAHKSENVETIKPAMDELNTIWNDVASTMYQTPSGDTPPSEPETGASEESKGGDKTQGDGEVDAEYEVIDGNDKDK |
| 1354 | sp|Q0SMZ0|DNAK\_BORAP | MGKIIGIDLGTTNSCVAIMEHGKPVVIQNSEGGRTTPSIVAYTNKGERLVGQVAKNQMVTNPENTIYSIKRFMGRRFEEVASEIKMVPYKIEKGLNGDARVNISNIKKQMSPPEISAATLTKMKETAEAYLGEKVTEAVITVPAYFNDAQRQATKDAGKIAGLEVKRIVNEPTAAALAYGIEKKHEEIVAVYDLGGGTFDISILELGDGVFEVKSTNGDTHLGGDNFDDEIIKHLISEFKKESAIDLSNDKMALQRLKEAAEKAKIELSGAQEASINLPFITADANGPKHLQYTLTRAKFEQMVDHLVQKTKEPCLKAIKDAGLKASDINEVILVGGSTRIPAIQKIVKDIFGQDPNKGVNPDEAVAIGAAIQGGILTGETKDMVLLDVTPLSLGIETLGGVMTKLIERNTTIPTKKSQVFSTAADNQTSVDIKVLQGEREMAAQNRILGNFILDGIPAAPRGVPQIEVSFDIDANGIVHVSAKDMGTGKEQKIRIESSSGLSESEIDRMVKDAEAHAEEDKKLKENIEAKNTANSLIYQTEKSLKEYSEKISIEDKETIENKIKELKESLEKEDISLIKSKTEELQKASYKIAEMMYKDSSQQNASNQQENGTQNNTSEEGKEADYEVVDEDKK |
| 1355 | sp|B8I305|DNAK\_RUMCH | MAKVIGIDLGTTNSCVAVMEGGEPIVIANPEGNRTTPSVVAFSKTGERMTGQVAKRQAITNPERTIISIKRDMGTDHKVDIDGKKFSPQEISSMILQKLKSDAEAYLGETVTQAVITVPAYFSDAQRQATKDSGKIAGLEVLRIINEPTAAALAYGLDKEHDQKIMVYDLGGGTFDVSILEIGDGVFEVLATNGNNKLGGDDFDQRIIDFLVDTFKKESGIDLKNDKMAMQRLKEAAEKAKVELSGVTSSNINLPFITADASGPKHLDVTLTRAKFDEITADLVENTMVPTRQAMQDAGLTPDKIDKILLVGGSTRIPAVQEAVKKYLGKDPFKGINPDECVAVGAAIQAGVLTGDVTGLLLLDVTPLSLGLETLGGVFTKLIERNTTIPTKKSQVFSTAADGQTSVEIHVLQGEREMAQYNKSLGRFQLTGIPSAPRGVPQIEVTFDIDANGIVHVSAKDLGTGNEQKITITASTNLSDSDIDKAVKEAEKFAAEDKQRKEEIDVRNNADSLIYQSEKSLKDLGDKVSADDKSKIESGVNKVKDALKGTDIEVIKKATEELQQSFYDISSKIYQQTQGAQSDPGAAGFGGQQEAPGAGQDENVVDADYKVVDDDK |
| 1356 | sp|C7J2Z1|ABI4\_ORYSJ | MEPSDDACTVAAPAAETAASSSGAGGGGGGGRTKKKAAGKGGPENGKFRYRGVRQRSWGKWVAEIREPRKRSRKWLGTFATAEDAARAYDRAALLLYGPRAHLNLTAPPPLPPPPPSSAAAAAASSSSAASSTSAPPLRPLLPRPPHLHPAFHHQPFHHHLLQPQPPPPPPPLYYAATASTSTVTTTTTAPPPQLAAAAPAAVLVAAAVSSTAETQAVVATAPEDAASAAAAAAAEEEAAWGFHGGDEEDYAAALLWSEPDPWFDLFLK |
| 1357 | sp|Q93Y08|AB1K8\_ARATH | MATSSSSSSSLLLPNINFNSRQSPTITRSVSIAGIFLPRNRLSYNHNLRIRTRLIRASKDDNVAVEDRDNAVKINGDYNGSARLNGNGSARKSVNGDFNGSARLNGNGSLVKYVNGSVTVETEEVTKKRKEEVRKKRVEDIGQEDAWFKNNTQQKQVEVSVTPGGRWNRFKTYSTIQRTLEIWGFVVQFIFRTWLSNKKFSYKGGMTEEKKVLRRKVLAKWLKENILRLGPTFIKIGQQFSTRVDILPQEYVDQLSELQDQVPPFPSATALSIVEEELGGSVEDIFDRFDYEPIAAASLGQVHRARLKGQEVVLKVQRPGLKDLFDIDLKNLRVIAEYLQKVDPKSDGAKRDWVAIYDECASVLYQEIDYTKEAANSELFANNFKDLEYVKVPSIYWEYTTPQVLTMEYVPGIKINKIQALDQLGVDRKRLGRYAVESYLEQILSHGFFHADPHPGNIAVDDVNGGRLIFYDFGMMGSISPNIREGLLEAFYGVYEKDPDKVLQAMVQMGVLVPTGDLTAVRRTALFFLNSFEERLAAQRKEKEEIAAAEELGFKKPLSKEEKQEKKKQRLAAIGEDLLAIAADQPFRFPATFTFVVRAFSVLDGIGKGLDPRFDITEIAKPYALELLRFREAGVEVVVKDLRKRWDRQSQAFYNLFRQADRVEKLAVVIERLEQGDLKLRVRALESERAFQRVAAVQKTVGSAVAAGSLVNLATILYLNSIKTPATIAYTVCAFFSLQVLIGIIKVKKFDQREKLITGTA |
| 1358 | sp|Q84TB6|ADF3\_ORYSJ | MANATSGVAVSEECKARFQELRAGRAHRFVVFKIDDAMRQVVVDRVGPRDAGFDELTASLPADGCRYAVYDHDFTVSDATATAAAGEGGEAPRSKIFFVSWSPAAADVRSKMVYASSNEGFKKELDGVQIDLQATDPSELTLDVLKDHTS |
| 1359 | sp|A0R1V9|AHPC\_MYCS2 | MALLTIGDQFPEYDLTAVVGGDLSKVDAKQPDDYFTRVTSKDYEGKWRIIFFWPKDFTFVCPTEIAAFGKLNEDFEDRDAKVLGVSVDNEFVHFQWRAQHEDLKTLPFPMVSDLKRELTAACGVLNADGVADRATFIVDPNNEVQFVSVTAGSVGRNVDEVLRVLDALQSDELCACNWKKGDPTINAGELLAGAV |
| 1360 | sp|G5CTG8|AQP11\_MILTA | MYTQIMTMYPLLISILHILFIISICQLCRYVSNVLVKHSLARIAIEEFICAVQLCATNFELGVITQIYGFSAYALGLFFCSFTYTFTFQDGTCDPSECYEKFCKREMSAREAVLRATFSIMGAAVSYRFAKIFWSFGLMATHMDFYKNESCDASLQVPVLIGLGFETFETIVNRLLQNMRHYNMLISAISDVCITFFGLFVSGGYFNPTLSFAMEYGCQGLSGPSFFLVYWFGPILGSSISLKIAKPLLRIIEGSDEAKVEVVDAKAHSD |
| 1361 | sp|P81874|CH60\_ACICA | SAKDVKFGDSARSMMIAGVNVIAD |
| 1362 | sp|P22034|CH602\_SYNY3 | MSKLISFKDESRRSLEAGINALADAVRITLGPKGRNVLLEKQYGAPQIVNDGITVAKEIELSNPEENAGAKLIQEVASKTKEIAGDGTTTATIIAQALVREGLRNVAAGANPVALRRGIEKVTTFLVQEIEAVAKPVEGSAIAQVATVSSGNDPEVGAMIADAMDKVTKDGVITVEESKSLNTELEVVEGMQIDRGYISPYFITDSDRQLVEFDNPLILITDKKISAIAELVPVLEAVARAGRPLLIIAEDIEGEALATLVVNKARGVLNVAAIKAPAFGDRRKAVLQDIAILTGGSVISEDIGLSLDTVSLDQLGQAVKATLEKDNTILVAGADKRASAGVKERIEQLRKEYAASDSDYDKEKIQERIAKLAGGVAVIKVGAATETELKDRKLRIEDALNATKAAVEEGIVPGGGTTLIRLAGKIESFKAQLSNDEERVAADIIAKALEAPLHQLASNAGVEGSVIVEKVKEATGNQGYNVITGKIEDLIAAGIIDPAKVVRSALQNAASIAGMVLTTEALVVEKPEPAAPAMPDMGGMGGMGGMGGMGMM |
| 1363 | sp|Q7XSQ5|CDPKC\_ORYSJ | MGNCFTKTYEIPITSGTMRRPASTAERSKARGGDEPGTWRRPSFPRHGAPPHRPPTGSSSAAGALSRRASGGGGEMGPVLQRAMVSVRSLYQLDRKLGSGQFGTTYLCTERATGNRYACKSVSKRKLVRRTDVDDVRREITILQHLSGQPNIAEFRGAYEDNDHVHLVMEFCSGGELFDRITAKGSYSERQAAAVCRDILTVVHVCHFMGVIHRDLKPENFLLASADDDAPLKAIDFGLSVFIEEGKVYKDIVGSAYYVAPEVLQRNYGKEADIWSAGVILYILLCGTPPFWAETEKGIFDAILVNQVDFSTSPWPSISESAKDLIRQMLHRDPQKRITASQALEHRWLKEGGASDRPIDSAVLSRMKQFKAMNKLKQLALKVIAENLSPEEIKGLKQMFNNMDTDRSGTITVEELKVGLTKLGSRISEAEVQKLMEAVDVDKSGSIDYSEFLTAMINKHKLEKEEDLLRAFQHFDKDNSGYITRDELEQAMAEYGMGDEANIKQVLDEVDKDKDGRIDYEEFVEMMRKGIQT |
| 1364 | sp|Q73IE4|CLPB\_WOLPM | MDLNKFTEKAKSLIQSAQMKALGAGHQIFMPEHLLKVMLEDESGLVQDLINACGGNVQSISDAVDSAIKKLPVIEGPGSGGLQLSREIAKVFEDSIGIAKRNKDSFVAVERLLQGLTAQKDDTVGKILAENGVTPQKLNSVVAEMRKGSSADSPNSEEKLNAAKKYTKDVTELAMQGKLDPVIGRDEEIRRTMQVSLRRTKNNPVLIGEPGVGKTAIVEGLANRIVANDVPLGLHDAKVLALDLGALIAGTKFRGEFEERLKAVINELSRAEGKVILFIDELHTLVGAGATSGAMDASNLLKPALARGEVRCIGATTLDEYRQHIEKDPALARRFQPVFISQPTETDTISILRGLKERYEVHHGIRITDGAIIAAATLSNRYITDRFLPDKAIDLIDEAASRVRIEMDSKPEVIDELERKVIQLKIEAEALKKESDENSKQRLKKINEEIENLNSKFADLNSKWQMEKNKIARIQETAEKLDNARKELELVQRSGNLGRAGELMYGVIPQLENELKNQEKVTDSFLKKEVTGDDIANIVSKWTGIPVDNMMHSEKEKLLNMENEIGRRVIGQKDAIEAISNAVRRSRSGVQDTNKPFGSFLFLGPTGVGKTELAKALAEFLFDDQSALLRFDMSEYMEKHSVSKLIGAPPGYVGYEQGGRLTEAVRRRPYQVILFDEIEKANPDIFNLLLQILDEGRLTDSHGKLIDFRNTILILTSNLGAEIMLKGNVDSVRNEVMQIVKSAFRPEFLNRLDEIIIFHSLTRDDIYKIIDVQFSYLQKTLAKRKLSISLLQEAKELIAQTGYDPEYGARPLKRVIQECIQNNLAKLVLSGEVVENDELIVYALDNEILVKKV |
| 1365 | sp|Q72IK9|CLPB\_THET2 | MNLERWTQAAREALAQAQVLAQRMKHQAIDLPHLWAVLLKDEGGLAWRLLEKAGADPKALKELQERELSRLPKVEGAEVGQYLTSRLSGALNRAEALMEELKDRYVAVDTLVLALAEATPGLPGLEALKGALKELRGGRTVQTEHAESTYNALEQYGIDLTRLAAEGKLDPVIGRDEEIRRVIQILLRRTKNNPVLIGEPGVGKTAIVEGLAQRIVKGDVPEGLKGKRIVSLQMGSLLAGAKYRGEFEERLKAVIQEVVQSQGEVILFIDELHTVVGAGKAEGAVDAGNMLKPALARGELRLIGATTLDEYREIEKDPALERRFQPVYVDEPTVEETISILRGLKEKYEVHHGVRISDSAIIAAATLSHRYITERRLPDKAIDLIDEAAARLRMALESAPEEIDALERKKLQLEIEREALKKEKDPDSQERLKAIEAEIAKLTEEIAKLRAEWEREREILRKLREAQHRLDEVRREIELAERQYDLNRAAELRYGELPKLEAEVEALSEKLRGARFVRLEVTEEDIAEIVSRWTGIPVSKLLEGEREKLLRLEEELHKRVVGQDEAIRAVADAIRRARAGLKDPNRPIGSFLFLGPTGVGKTELAKTLAATLFDTEEAMIRIDMTEYMEKHAVSRLIGAPPGYVGYEEGGQLTEAVRRRPYSVILFDEIEKAHPDVFNILLQILDDGRLTDSHGRTVDFRNTVIILTSNLGSPLILEGLQKGWPYERIRDEVFKVLQQHFRPEFLNRLDEIVVFRPLTKEQIRQIVEIQLSYLRARLAEKRISLELTEAAKDFLAERGYDPVFGARPLRRVIQRELETPLAQKILAGEVKEGDRVQVDVGPAGLVFAVPARVEA |
| 1366 | sp|P53533|CLPB1\_SYNE7 | MQPTNPNQFTEKAWEAIVRTTDVAKQAQHQQIESEHLFLALLQEPGLALNILKKAGLEAAQLQQFTERFIARQPKVSGGNQSVYLGRSLDQLLDQADQFRKDFGDEFISVEHLILSFPRDSRFGRLLSQEFKVDEKQLRQIIQQIRGSQKVTDQNPEGKYEALEKYGRDLTEMARRGKLDPVIGRDDEIRRTIQILSRRTKNNPVLIGEPGVGKTAIAEGLAQRIINGDVPQSLKDRRLIALDMGALIAGAKFRGEFEERLKAVLKEVTDSEGIIILFIDEIHTVVGAGAVQGSMDAGNLLKPMLARGELRCIGATTLDEYRQYIEKDAALERRFQQVFVDQPTVEDTISILRGLKERYEVHHGVRISDNALVAAAVLSTRYISDRFLPDKAIDLVDESAARLKMEITSKPEELDEIDRKILQLEMERLSLQKESDLASQERLQRLEKELADLKEEQRSLSSQWQAEKDVITDIQSVKEEIDQVNLLIQQAERDYDLNKAAELKYGKLTELQRKLNEMEGGLATTHTSGKSLLREEVTEVDIAEIISKWTGIPVSKLVESEMQKLLNLDEELHQRVIGQEEAVSAVADAIQRSRAGLSDPKRPIASFIFLGPTGVGKTELAKALAAYLFDTEDAMIRIDMSEYMEKHAVSRLIGAPPGYVGYDEGGQLTEAVRRRPYSVILFDEIEKAHPDVFNVMLQILDDGRVTDSRGRTVDFKNTILILTSNIGSQYILDVAGDDSRYEEMRSRVTEALRANFRPEFLNRVDETIIFHSLRKDQLQQIVRIQLHRLEERLSDRKLSLSMSPEAIDFLVEIGFDPVYGARPLKRVIQRELETAIAKAILRGQFSDGDTIQVAVENERLVFKAIATPTAVPLS |
| 1367 | sp|Q6LMY0|CLPB\_PHOPR | MRLDRFTSKFQMAIFDGQSLALGRDHQYIEPAHLMVALLNQDGSTIRPLLTMLNVDISQLRSRLGELLDHLPKVTGIGGEVQLSNDMGLLLNMCDKLAQKRKDKFISSELFILAAVDDKGSLGKLLKELGLTAAKIEQAINQVRGGQKVDDQNAEENRQALEKFTIDLTERAEQGKLDPVIGRDDEIRRTIQVLQRRTKNNPVIIGQPGVGKTAIVEGLAQRIVNGEVPEGLRHKRVLSLDMGSLIAGAKYRGEFEERLKSVLNELSQEEGSVILFIDELHTMVGAGKGEGSMDAGNMLKPALARGELHCVGATTLDEYRQYIEKDAALERRFQKVLVDEPTVEDTIAILRGLKERYELHHHVEITDPAIVAAARLSHRYVSDRQLPDKAIDLIDEAASSIRMQIDSKPESLDRLERRIIQLKIEQQALSKESDAASQKRLNDICEELDVKEREYAELEEVWNAEKAALSGTQHIKSELEQARMNMEVARRAGDLNRMSELQYGKIPELEKQLDLAAQAEMQEMSLLKNKVTDAEIAEVLSKQTGIPVAKMLEGERDKLLRMEDELHQRVIGQNEAVEAVANAIRRSRAGLSDPNRPIGSFLFLGPTGVGKTELCKTLANFMFDSEDNMVRIDMSEFMEKHSVARLVGAPPGYVGYEEGGYLTEAVRRRPYSVILLDEVEKAHPDVFNILLQVLDDGRLTDGQGRTVDFRNTVIIMTSNLGSDRIQENFGNLNYEGIKNMVLEVVSQYFRPEFINRVDETVVFHPLGQENIKHIASIQIERLVNRLKEKDYELTVQESALDFVAKAGFDPVYGARPLKRAIQQYIENPLAQEILSGKLETGKPIDLLIEDEHLVTKQ |
| 1368 | sp|Q7X7S8|COLD1\_ORYSJ | MGWGAVVYGGGVVGASLVGLGWAGLWFLNRRLYKEYEERRALVQILFGLVFAFSCNLFQLVLFEILPVLSKHARFLNWHLDLFCLILLLVFVLPYYHCYLLLRNSGVRRERALLVAALFLLVFLYGFWRMGIHFPMPSPEKGFFTMPQLVSRIGVIGVSVMAVLSGFGAVNLPYSYLSLFIREIDEKDIKTLERQLMQSMETCIAKKKKIVLSKMEMERIQGSEEKLKARSFLKRIVGTVVRSVQEDQTEQDIKSLDAEVQALEELSKQLFLEIYELRQAKIAAAFSRTWRGHAQNLLGYALSVYCVYKMLKSLQSVVFKEAGSVDPVTMTITIFLRHFDIGIDVTLLSQYISLIFIGMLVVISVRGFLANVMKFFFAVSRVGSGSTTNVVLFLSEIMGMYFISSILLIRKSLANEYRVIITDVLGGDIQFDFYHRWFDAIFVASAFLSLLLISAQYTSRQTDKHPID |
| 1369 | sp|Q87J97|BCCT4\_VIBPA | MHGFRALKSEVIMSNMTNAAPHTPIQEADYSAIHPPSLLKRLELTNPVFWLSGSFLSLFVLLALTNTESLTAMVNAGFGFATKYFGAYWQVLLLLNFLIGLALAFGRTGYVRLGGLAKPDIDTFKWLSIVLCTLLAGGGVFWAAAEPIAHFVTAPPLYGEASPKTSAINALSQSFMHWGFLAWAILGCLSSIVLMHLHYDKGLPLKPRTLLYPIFGDKAIHGWIGNLADACSIIAVAAGTIGPIGFLGLQISYALNSLFGFPDNFITQSMVIVAAIVMYTLSALSGVSKGIQLVSRYNIILSVLLIGYILFFGPTSFIIDGYVQGVGRMVDNFFPMALYRDDTGWLSWWTVFFWGWFIGYGPMMAIFIARISRGRTIRQLILSISIAAPLITCFWFSIVGGSGLAFELANPGLISSAFEGFNLPAVLLAITGELPFPMIISVLFLILTTTFIVTTGDSMTYTISVVMTGSAEPNAVIRSFWGLMMGVVAIALISMGSGGITALQSFIVITAVPVSFILLPSILKAPGIANQMAKDQGLV |
| 1370 | sp|P30847|BAES\_ECOLI | MKFWRPGITGKLFLAIFATCIVLLISMHWAVRISFERGFIDYIKHGNEQRLQLLSDALGEQYAQHGNWRFLRNNDRFVFQILRSFEHDNSEDKPGPGMPPHGWRTQFWVVDQNNKVLVGPRAPIPPDGTRRPILVNGAEVGAVIASPVERLTRNTDINFDKQQRQTSWLIVALATLLAALATFLLARGLLAPVKRLVDGTHKLAAGDFTTRVTPTSEDELGKLAQDFNQLASTLEKNQQMRRDFMADISHELRTPLAVLRGELEAIQDGVRKFTPETVASLQAEVGTLTKLVDDLHQLSMSDEGALAYQKAPVDLIPLLEVAGGAFRERFASRGLKLQFSLPDSITVFGDRDRLMQLFNNLLENSLRYTDSGGSLQISAGQRDKTVRLTFADSAPGVSDDQLQKLFERFYRTEGSRNRASGGSGLGLAICLNIVEAHNGRIIAAHSPFGGVSITVELPLERDLQREV |
| 1371 | sp|P0CU43|CAHS3\_HYPDU | MSNYQQESSYQYSDRSNNGQQQEQQEKKEVEHSSYTHTDVKVNMPNLIAPFISSSAGLAQELVGEGFQASVSRITGASGELTVIDTEAETEEARRDMEAKAREQELLSRQFEKELERKTEAYRKQQEVETEKIRKELEKQHLRDVEFRKELMEQTIENQKRQIDLEARYAKKELERERNKVKRVLERSKFHTDIQVNMEAAAGSTHSGSSSVAVSESEKFQTNN |
| 1372 | sp|Q0E4K1|CATA1\_ORYSJ | MDPCKFRPSSSFDTKTTTTNAGAPVWNDNEALTVGPRGPILLEDYHLIEKVAHFARERIPERVVHARGASAKGFFECTHDVTDITCADFLRSPGAQTPVIVRFSTVIHERGSPETIRDPRGFAVKFYTREGNWDLLGNNFPVFFIRDGIKFPDVIHAFKPNPRSHVQEYWRVFDFLSHHPESLHTFFFLFDDVGIPTDYRHMDGFGVNTYTFVTRDAKARYVKFHWKPTCGVSCLMDDEATLVGGKNHSHATQDLYDSIAAGNFPEWKLFVQVIDPEEEERFDFDPLDDTKTWPEDEVPLRPVGRLVLNRNVDNFFNENEQLAFGPGLVVPGIYYSDDKMLQCRVFAYADTQRYRLGPNYLMLPVNAPKCAHHNNHYDGAMNFMHRDEEVDYYPSRHAPLRHAPPTPITPRPVVGRRQKATIHKQNDFKQPGERYRSWAPDRQERFIRRFAGELAHPKVSPELRAIWVNYLSQCDESLGVKIANRLNVKPSM |
| 1373 | sp|J7M3T1|CAHS3\_RAMVA | MSSRQNQQSSSQHSSSSQQGGQGGQGVQGSSSYSRTEVHTSSGGPTIGGAQRTVPVPPGSHSEVHEEREVIKHGTKTESETHVVTVPVTTFGSTNMESVRTGFTVTQDKNLTVAAPNIAAPIHSNLDLNLGGGARAEITAGTTVDLSKIQRKDLGPEEYARYKAKVEQLARQDEQDAGMRAAQYREEVERDAELIRQILERQHIRDLEFRKEMVENQVNRQEREIQLEAEYAMRALELERNAAKEALESAKAQTNVNVKVESAIGTTVSKGAIQTSADKSSTTKTGPTTVTQIKHTEQHTERR |
| 1374 | sp|P22978|CG445\_DROME | MATYEQVKDVPNHPDVYLIDVRRKEELQQTGFIPASINIPLDELDKALNLDGSAFKNKYGRSKPEKQSPIIFTCRSGNRVLEAEKIAKSQGYSNVVIYKGSWNEWAQKEGL |
| 1375 | sp|Q6NPP4|CMTA2\_ARATH | MADRGSFGFAPRLDIKQLLSEAQHRWLRPAEICEILRNHQKFHIASEPPNRPPSGSLFLFDRKVLRYFRKDGHNWRKKKDGKTVKEAHEKLKVGSIDVLHCYYAHGEDNENFQRRCYWMLEQDLMHIVFVHYLEVKGNRMSTSGTKENHSNSLSGTGSVNVDSTATRSSILSPLCEDADSGDSRQASSSLQQNPEPQTVVPQIMHHQNASTINSYNTTSVLGNRDGWTSAHGNRVKGSNSQRSGDVPAWDASFENSLARYQNLPYNAPLTQTQPSTFGLIPMEGKTEKGSLLTSEHLRNPLQSQVNWQTPVQESVPLQKWPMDSHSGMTDATDLALFGQGAHENFGTFSSLLGSQDQQSSSFQAPFTNNEAAYIPKLGPEDLIYEASANQTLPLRKALLKKEDSLKKVDSFSRWVSKELGEMEDLQMQSSSGGIAWTSVECENAAAGSSLSPSLSEDQRFTMIDFWPKWTQTDSEVEVMVIGTFLLSPQEVTSYSWSCMFGEVEVPADILVDGVLCCHAPPHEVGRVPFYITCSDRFSCSEVREFDFLPGSTRKLNATDIYGANTIETSLHLRFENLLALRCSVQEHHIFENVGEKRRKISKIMLLKDEKEPPLPGTIEKDLTELEAKERLIREEFEDKLYLWLIHKVTEEGKGPNILDEDGQGVLHLAAALGYDWAIKPILAAGVSINFRDANGWSALHWAAFSGREDTVAVLVSLGADAGALADPSPEHPLGKTAADLAYGNGHRGISGFLAESSLTSYLEKLTVDAKENSSADSSGAKAVLTVAERTATPMSYGDVPETLSMKDSLTAVLNATQAADRLHQVFRMQSFQRKQLSELGGDNKFDISDELAVSFAAAKTKKSGHSSGAVHAAAVQIQKKYRGWKKRKEFLLIRQRIVKIQAHVRGHQVRKQYRAIIWSVGLLEKIILRWRRKGSGLRGFKRDTISKPTEPVCPAPQEDDYDFLKEGRKQTEERLQKALTRVKSMAQYPEARAQYRRLLTVVEGFRENEASSSSALKNNTEEAANYNEEDDLIDIDSLLDDDTFMSLAFE |
| 1376 | sp|Q6MD97|CLPB\_PARUW | MNQNFTDHVAEAIQAAFAEAQRLNHTEVTENHLLWAFLKDKEGYFYSLLNGLGTNPQKLFQETENNIHHLPTYSGGGQAPNPSRSLQSRIVDAQNIAQSWKDTYTSSDHFLISYWKNGGDPFASWKKKTTISLEKLEEQIKKIRGDRHMDSPSSESNLQALEKYCKNLTDLARQGKLDPVIGRDEEIRRTMQVLCRRTKNNPMLIGDPGVGKTAIAEGLAQRIVQQDIPDSLKNKQLLALDMGSLIAGTKYRGEFEERLKGILQDIEKSEGQIILFIDEVHTLIGAGATDGAMDAANLLKPALARGILHCIGATTLNEYQKYIEKDAALERRFQLVLVNEPTIEDSIAILRGLRERYEIYHGVHITESAIHAAVLLSSRYITDRRLPDKAIDLIDESASLIRMQLGSRPLPIDNKERELAGLIVEQEAMKRESTPLAKNEVEKLEGRIAQIKEELKILREQWDQEKKIIESLKEKKDKLEKLRFEEEAAERKADYNRVAELRYNLIPQLQKEIEEAQTQLNNKPNRLLQEEVDESLIAQIVSKWTGIPVHKMLEGEAERLLHLENELEKRVVGQEIAVSAVSEAIRRSRSGLSDPNRPMGVFLFLGPTGVGKTELAKALAFQLFNQDEALIRLDMSEYMEKHTVSKLIGSPPGYIGYEEGGQLTEALRRRPYAVVLFDEIEKAHPDVFNILLQVFDDGRLTDSKGRVVNCKNALFIMTSNIGSDLLLEKMEQNKQGLAKDEIMLVLDPVIKKHFRPEFINRLDDILPFVPLREHDMEKIVVIQLNLLAKRLKDRDVELMWTPQALAHLAKEGYDPHFGARPLKRYIQQEVINQLSTAILEGKIPPHSHIKLELEGNTIRFKSFAGGKN |
| 1377 | sp|Q7U637|CLPB1\_SYNPX | MQPTAEQFTEQAWAAIVAAQQLAQASRHQQLETEHLLLALLRQNGLAGRILSKTGVDVTTFEASVEGHLQRLPSLGSAPDSVFLGRSLNKALDRAEQRRDGFGDSFIAIEHLLLALAEDDRCGRQLLSQAGVTTNTLKEAITAVRGNQTVTDQNPEATYESLAKYGRDLTAAARDGQLDPVIGRDEEIRRTIQILSRRTKNNPVLIGEPGVGKTAIVEGLAQRIVNGDVPQALQNRQLITLDMGALIAGAKYRGEFEERLKAVLKEVTTSDGQIVLFIDEIHTVVGAGASGGAMDASNLLKPMLARGELRCIGATTLDEHRQHIEKDPALERRFQQVLVDQPTVPDTISILRGLKERYEVHHGVRIADSALVAAAMLSSRYITDRFLPDKAIDLVDESAARLKMEITSKPEQIDEIDRKILQLEMEKLSLGRESDSASQERLQRIERELAELGEQQSSLNAQWQSEKGAIDQLSALKEEIERVQLQVEQAKRNYDLNKAAELEYGTLATLQRQLQEQEDLLEDEDGTDKTLLREEVTEDDIAEVIAKWTGIPVARLVQSEMEKLLQLEDDLHQRVIGQNQAVTAVADAIQRSRAGLSDPNRPIASFLFLGPTGVGKTELSKALANRLFDSDDAMVRIDMSEYMEKHTVSRLIGAPPGYVGYEAGGQLTEAVRRRPYAVILFDEVEKAHPDVFNVMLQILDDGRVTDGQGRTVDFTNTVLILTSNIGSQSILELAGDPEQHTAMEQRVNEALKAKFRPEFLNRLDDQIIFRSLEKEELRRIVSLQVERLRSRLEQRKLDLQLSDIAADWLATIGFDPVYGARPLKRAIQRELETPIAKAILAGQLSEGQTVQVDAGDDKLSIS |
| 1378 | sp|P36995|CSPB\_ECOLI | MSNKMTGLVKWFNADKGFGFISPVDGSKDVFVHFSAIQNDNYRTLFEGQKVTFSIESGAKGPAAANVIITD |
| 1379 | sp|Q73EU1|CSHA\_BACC1 | MTTFRELGLSDSLLQSVESMGFEEATPIQAETIPHALQGKDIIGQAQTGTGKTAAFGLPLLDKVDTHKESVQGIVIAPTRELAIQVGEELYKIGKHKRVRILPIYGGQDINRQIRALKKHPHIIVGTPGRILDHINRKTLRLQNVETVVLDEADEMLNMGFIEDIEAILTDVPETHQTLLFSATMPDPIRRIAERFMTEPQHIKVKAKEVTMPNIQQFYLEVQEKKKFDVLTRLLDIQSPELAIVFGRTKRRVDELSEALNLRGYAAEGIHGDLTQAKRMSVLRKFKEGSIEVLVATDVAARGLDISGVTHVYNFDIPQDPESYVHRIGRTGRAGKKGIAMLFVTPRESGQLKNIERTTKRKMDRMDAPTLDEALEGQQRLIAEKLQNTIENENLAYYKRIAEEMLEENDSVTVVAAALKMMTKEPDTTPIALTSEPPVVARGGGSKKRGGNGGGYRDGNRNRSRDGRGGDGRNRDRNRDGRNRDGNRDRNRDGGNRGRRGEGQGRPGSSNGRGERKHHSRKPQA |
| 1380 | sp|P53899|CUZ1\_YEAST | MSAAIEKETGMLDVGKHCAYCRQLDFLPFHCSFCNEDFCSNHRLKEDHHCRWLLEHEEVHKTEKSPSKSRDGSSSNDEAYFKSLLPERASVRIQRVSETREPLRGSNTAKVSSTLNSKTLDKIFKFFQRNEKRKSNNKSKKNFGSSSNKIIQLANLKKIAKGDPKIPMQNRIYIWCYLVDGDETDIAKEDTRMPLYINKMWPVGRAMDYLSIQLNVKSSTLTNSSSNDKFQLCKLKEGKQVSFYNIGASLRVTNEIKDLDTLYLVHNNADEKSN |
| 1381 | sp|Q6GBW6|CTSR\_STAAS | MHNMSDIIEQYIKRLFEESNEDVVEIQRANIAQRFDCVPSQLNYVIKTRFTNEHGYEIESKRGGGGYIRITKIENKDATGYINHLLQLIGPSISQQQAYYIIDGLLDKMLINEREAKMIQAVIDRETLSMDMVSRDIIRANILKRLLPVINYY |
| 1382 | sp|E1V4H2|DEGPL\_HALED | MTRMTRHLALWMLLSLAILASQSAMAQKLPDFTSLVEEAAPAVVNISTSRTVETRNMPFGQFGGQELPEIFKHFFGERFGDQMPMPPGAQGHSEERRSLGSGFIISEDGYIMTNAHVVEGADEILVSLNDGRELKAELVGADTKTDVAVLKVDADNLPTLTLGDSEDLKVGQWVAAIGSPFGLDHSVTSGIISAINRTLPRDVYVPFIQTDVAINPGNSGGPLFNLDGEVIGINSQIFTRSGGYMGLSFAIPIDVAMDVADQLRNDGSVSRGWLGVMIQPVSRELADSFGMDKPQGALIADLDPDGPAARDGLKAGDVVLEVDGQTVDSSSALPRLIGRVSPGNDVELKVLRNGEHRNVTVTVGDWPDSQKGAGGSAGDTAPARLGLAVRPLEEGQHDQAIDNGVRVVEVDPTGVAAKAGIRAGDILVSIGEHAVESPEQLSELIGELPEDRAVPVRLYRSGHSYYVALRLAQK |
| 1383 | sp|P39099|DEGQ\_ECOLI | MKKQTQLLSALALSVGLTLSASFQAVASIPGQVADQAPLPSLAPMLEKVLPAVVSVRVEGTASQGQKIPEEFKKFFGDDLPDQPAQPFEGLGSGVIINASKGYVLTNNHVINQAQKISIQLNDGREFDAKLIGSDDQSDIALLQIQNPSKLTQIAIADSDKLRVGDFAVAVGNPFGLGQTATSGIVSALGRSGLNLEGLENFIQTDASINRGNSGGALLNLNGELIGINTAILAPGGGSVGIGFAIPSNMARTLAQQLIDFGEIKRGLLGIKGTEMSADIAKAFNLDVQRGAFVSEVLPGSGSAKAGVKAGDIITSLNGKPLNSFAELRSRIATTEPGTKVKLGLLRNGKPLEVEVTLDTSTSSSASAEMITPALEGATLSDGQLKDGGKGIKIDEVVKGSPAAQAGLQKDDVIIGVNRDRVNSIAEMRKVLAAKPAIIALQIVRGNESIYLLMR |
| 1384 | sp|P42101|GS30\_BACSU | MTVQEIKGKKLVKGIAPNVEPEALLNDKRKVFLFGSPSYTNIGDQAIAYAEEKFIKNHFPYYEYIEIMDYATDEGIELVKEIIREDDIVCFTGGGNLGNLYLDIEEDRRKVFSAFKDYKSISLPQSVYFEDTEEGQKEKKKTQDAYHQNTNLTIAARETQTLDVVKETFNSNVIFTPDMVLSLDIVPRELERDGVLFILRADKEKVTDEDFISQMKQWAEKTTYTERTDTVLDTVDTIDYADREKHFMEMLDRIGSSKLVITDRLHAMIFSIITKTPCLVFGNSYGKAKHSYRDWLESLNFIEYTDKNDVEELERMIDRLLQAEPNDVDLSKDFQPLIDFFAS |
| 1385 | sp|Q2K8U6|HFQ\_RHIEC | MAERSQNLQDLFLNTVRKQKISLTIFLINGVKLTGVVTSFDNFCVLLRRDGHSQLVYKHAISTIMPGQPMQMFESEEAAS |
| 1386 | sp|B4TFA6|HFQ\_SALHS | MAKGQSLQDPFVNALRRERVPVSIYLVNGIKLQGQIESFDQFVILLKNTVSQMVYKHAISTVVPSRPVSHHSNNAGGGASNNYHHGSNAQGSTAQQDSEETE |
| 1387 | sp|A4G4K7|HFQ\_HERAR | MTNKGQLLQDPFLNALRKEHVPVSIYLVNGIKLQGHIESFDQYVVLLRNTVTQMVYKHAISTVVPARAVNLSLESDAE |
| 1388 | sp|A9M5C4|HFQ\_BRUC2 | MAERSQNLQDLFLNSVRKQKISLTIFLINGVKLTGIVTSFDNFCVLLRRDGHSQLVYKHAISTIMPSQPVQMFEGEEA |
| 1389 | sp|Q6Z9R8|HFB4A\_ORYSJ | MEWEEESEAARQKAAAASASVVPAPFLTKTYQLVDDPATDHVVSWEDDDGGESASSFVVWRPPEFARDILPNYFKHSNFSSFVRQLNTYGFRKVVPERWEFANEFFRKGEKQLLCEIHRRKSAAATWPPFPPPPPPFFAPRHFAAGAFFRHGDGMLHGRLGALVTTTERRHWFESAALPVAPSSRLLSQLGPVIAPARRAAATPEEEALMQENHRLLRGNAALVQELAHMRKLYSDIIYFVQNHVRPVAPSPAAAAALHGLGVLRPPPAGGKAPASEVRGASGRSATSSSSLTVAEDQPTLLALRLPRTTEKIINEVSGGNGGGSTKLFGVHLSSADEQTSSGASRKRSPPQEQPPTSPAPKRTLVVEHSELRLSIVSPP |
| 1390 | sp|Q9FFD8|MBS2\_ARATH | MTGKAKPKKHTAKELQAKADAALTNRGGGKAGLADRTGKEKGGHAKYECPHCKITVPDLKTMQIHHESKHPKLTYEEPRNLHEALAAPAESSKPKPGIRGSLKK |
| 1391 | sp|P80878|MCAT\_BACSU | MFKHTKMLQHPAKPDRPDPLFAKKMQEILGGQFGEISVAMQYLFQGWNTRGNEKYKDLLMDTATEELGHVEMIATMIARLLEDAPLDQQEKAAEDPVIGSILGGMNPHHAIVSGLGAMPESSTGVPWSGGYIVASGNLLADFRANLNAESQGRLQVARLFEMTDDKGVKDMLSFLLARDTMHQNQWLAAIKELEAQEGPVVPGTFPKALEKQEFSHQLINFSEGEVSAEQNWLNEKAPDGEAFEYVKEAKTFGEKPELKPAPPFVHNTLPGRE |
| 1392 | sp|P10841|MATPC\_SCHPM | MDPRLRAPIFLPILTPETLQKKKQIKGNKTTIYKNGFMLFRSRLHKILNLSGDWAGASAKCSIIWHTLPQNVRLAWSQLAELSHYQDVRRQIAKLERILYSKRLNGHNNYKLHISRVQ |
| 1393 | sp|Q9S7U9|M2K2\_ARATH | MKKGGFSNNLKLAIPVAGEQSITKFLTQSGTFKDGDLRVNKDGVRIISQLEPEVLSPIKPADDQLSLSDLDMVKVIGKGSSGVVQLVQHKWTGQFFALKVIQLNIDEAIRKAIAQELKINQSSQCPNLVTSYQSFYDNGAISLILEYMDGGSLADFLKSVKAIPDSYLSAIFRQVLQGLIYLHHDRHIIHRDLKPSNLLINHRGEVKITDFGVSTVMTNTAGLANTFVGTYNYMSPERIVGNKYGNKSDIWSLGLVVLECATGKFPYAPPNQEETWTSVFELMEAIVDQPPPALPSGNFSPELSSFISTCLQKDPNSRSSAKELMEHPFLNKYDYSGINLASYFTDAGSPLATLGNLSGTFSV |
| 1394 | sp|P54503|MGSR\_BACSU | MEQQLTFYSYPSCTSCRKTKHWLKAHQIEFNERHLFRETPTREELKYILSLTTEGIDEILATRSQTFKNLNLNIEEMTVNEVLELLIEKPKLLRRPILVDNKKLVIGYNPGELLKLSKKKTVHQSA |
| 1395 | sp|A0QBR0|MPRB\_MYCA1 | MIRLHRPQRPPLRAPLRATPSLSLRWRVMLLAMSMVAMVVVLMAFAVYAVISAALYSDIDNQLQSRAQLLIASGSLAADPGKAIEGTAYSDVNAMLVNPGHAIYTAQQPGQTLPVGSPEKAVIHGELFMSRRTAGDQRILAVHLQNGTSLLISKSLKPTEAVMNKLRWVLLIVGGVGVAVAAVAGGMVTRAGLRPVARLTEAAERVARTDDLRPIPVFGSDELARLTESFNLMLRALAESRERQARLVTDAGHELRTPLTSLRTNVELLMASMEPGAPRLPEQEMVELRADVLAQIEELSTLVGDLVDLTRDDAGQVVHEPVDMSDVIDRSLERVRRRRNDIHFDVDVTPWQMYGDAAGLSRAVLNLLDNAAKWSPPGGHVGVTMRQLDPSHAELVVSDHGPGIPPQERRLVFERFYRSTSARAMPGSGLGLAIVKKVVLNHGGMLRVEDTVPGGQPPGTSFYVLLPGRPLPPAGHSTPAGESETDKAEAATDPAVPVAGDTANSRESANVISVDSQSARAR |
| 1396 | sp|A0PWB4|MPRA\_MYCUA | MSVRILVVDDDRAVRESLRRSLSFNGYTVELAHDGVEALEMIASDRPDALVLDVMMPRLDGLEVCRQLRSTGDDLPILVLTARDSVSERVAGLDAGADDYLPKPFALEELLARMRALLRRTKLEDDEAADSVAMTFSDLSLDPVTREVTRGARRISLTRTEFALLEMLIANPRRVLTRSRILEEVWGFDFPTSGNALEVYVGYLRRKTEAEGEPRLIHTVRGVGYVLRETPP |
| 1397 | sp|A3AZ88|MT2C\_ORYSJ | MSCCGGNCGCGSGCQCGGGCGGCKMFPDVEATATTKTFVLAAPSNKASSGGMEMAVESGENGGCGCNTCKCGTSCSGCSCCSCN |
| 1398 | sp|A0A3Q7HRZ6|MYC2\_SOLLC | MTEYSLPTMNLWNNSTSDDNVSMMEAFMSSDLSFWATNNSTSAAVVGVNSNLPHASSNTPSVFAPSSSTSASTLSAAATVDASKSMPFFNQETLQQRLQALIDGARETWTYAIFWQSSVVDFSSPSVLGWGDGYYKGEEDKAKRKLSVSSPAYIAEQEHRKKVLRELNSLISGAPPGTDDAVDEEVTDTEWFFLISMTQSFVNGSGLPGQALYSSSPIWVAGTEKLAASHCERVRQAQGFGLQTIVCIPSANGVVELGSTELIVQSSDLMNKVRVLFNFSNDLGSGSWAVQPESDPSALWLTDPSSSGMEVRESLNTVQTNSVPSSNSNKQIAYGNENNHPSGNGQSCYNQQQQKNPPQQQTQGFFTRELNFSEFGFDGSSNRNGNSSVSCKPESGEILNFGDSTKKSASSANVNLFTGQSQFGAGEENNNKNKKRSATSRGSNEEGMLSFVSGTVLPSSGMKSGGGGGEDSEHSDLEASVVKEADSSRVVEPEKRPRKRGRKPANGREEPLNHVEAERQRREKLNQRFYALRAVVPNVSKMDKASLLGDAISYINELKSKLQNTESDKEDLKSQIEDLKKESRRPGPPPPPNQDLKMSSHTGGKIVDVDIDVKIIGWDAMIRIQCNKKNHPAARLMAALMELDLDVHHASVSVVNDLMIQQATVKMGSRHYTEEQLRVALTSKIAETH |
| 1399 | sp|A2R7P5|NST1\_ASPNC | MSDPASTSIPAHATNGEAHAPNDHHHAQLPLSDSKPVSVNRKKQKRRQKQAARLAAERQFGNGHISADMSEQNGLSPTAPASHVSDDHDLDERANGETYYEEIHDATHDLDDHPPNLSNGQPGQQNATARKSKKKKGKKNRAGSQTMGDESSTPLSTPSVSMSQHLPPPLPSHLPHTLLKTSKDRSIWNTSTQEERENIKTFWLELGEEERRQLVKVEKDAVLKKMKEQQKHSCSCTVCGRKRTAIEEELEVLYDAYYEELEQYANNNQGSFEKGPPMVPPPRLYHPPLRSPGQHTRTQGQFHPSRGRIHELPEDDEDLEEDYDEDDEDDEPYSDDEYEDEETRAARADFFAFGNSLTVKGRRQIMLLSFIFPKPVTNLIFTLADGILTVADDLLKNDGKHFIDMMEQLAERRMQREEDTQYGIAAAHQSLHGGHNHGPLDDDDYDEEEDEDYDSQEDEDYEEDEMVSSGNWPGGDAVQADSFLQDAMTEEQRMEEGRRMFQIFAARMFEQRVLTAYREKVAEQRQQKLIEELMEEQTRNEQRNAKKAREAQKRKDKKKLQKQAKEEEKARREAEKAAEEAAAKAEQEKKLEEQRRKREEQKKKREAERKAQEAERLRKEAEKQKRLREERERQAEIERKQREQKELEKKRREEARQNELREKKTKDERERKLREAAPKTDYEGQEKRDPQAKRVSHTGPVPIPASLQHAQALPAYLQSPHYQIATPIVPKAPTPARPRQPSQQGSHTSSPRSQPASTEPSQVSISPRSMAPSQSSGASSVTSKQGHGQPPLLHHPQPSTPLSPLGALNRSHPPGFSPSNPPGLGLVARPPIGHELPSYPPHSGPLMNQLRGFPAPNGLPVLPGMNGTRPMPPGRGFPLDPGHGLAFHQQPIANAFAAQPSGLSHAHSRQPSSSFERSPLDAHAFPISRPSPIKRPSSTQQDQNNRSAQRDVDDLSAHLGSSALLDDSDVPFTSNLSQSLPGATAPGTLPGPTRASFAGTSLFADPLAAKHSGFPIGPSVGNTWSTQIPFGTSPFPSAPTWGTGPGSGWSNNAFAPGGHHRAHTSRPVTIRLLVIQACKQLNMMSPSKGASGYHDVKVVLRQVDQLRPVNEPPISLKEMLDICDTEGNSQNGGGSFSIRSDETGECVKFEPDTNSASSGHRGSIVPGEIGSPVPSSSLPAFGGIGSSTPSVLRQFSSPTGF |
| 1400 | sp|Q8N573|OXR1\_HUMAN | MTKDKNSPGLKKKSQSVDINAPGFNPLAGAGKQTPQASKPPAPKTPIIEEEQNNAANTQKHPSRRSELKRFYTIDTGQKKTLDKKDGRRMSFQKPKGTIEYTVESRDSLNSIALKFDTTPNELVQLNKLFSRAVVTGQVLYVPDPEYVSSVESSPSLSPVSPLSPTSSEAEFDKTTNPDVHPTEATPSSTFTGIRPARVVSSTSEEEEAFTEKFLKINCKYITSGKGTVSGVLLVTPNNIMFDPHKNDPLVQENGCEEYGIMCPMEEVMSAAMYKEILDSKIKESLPIDIDQLSGRDFCHSKKMTGSNTEEIDSRIRDAGNDSASTAPRSTEESLSEDVFTESELSPIREELVSSDELRQDKSSGASSESVQTVNQAEVESLTVKSESTGTPGHLRSDTEHSTNEVGTLCHKTDLNNLEMAIKEDQIADNFQGISGPKEDSTSIKGNSDQDSFLHENSLHQEESQKENMPCGETAEFKQKQSVNKGKQGKEQNQDSQTEAEELRKLWKTHTMQQTKQQRENIQQVSQKEAKHKITSADGHIESSALLKEKQRHRLHKFLCLRVGKPMRKTFVSQASATMQQYAQRDKKHEYWFAVPQERTDHLYAFFIQWSPEIYAEDTGEYTREPGFIVVKKIEESETIEDSSNQAAAREWEVVSVAEYHRRIDALNTEELRTLCRRLQITTREDINSKQVATVKADLESESFRPNLSDPSELLLPDQIEKLTKHLPPRTIGYPWTLVYGTGKHGTSLKTLYRTMTGLDTPVLMVIKDSDGQVFGALASEPLKVSDGFYGTGETFVFTFCPEFEVFKWTGDNMFFIKGDMDSLAFGGGGGEFALWLDGDLYHGRSHSCKTFGNRTLSKKEDFFIQDIEIWAFE |
| 1401 | sp|P0ADY2|PPID\_ECOL6 | MMDSLRTAANSLVLKIIFGIIIVSFILTGVSGYLIGGGNNYAAKVNDQEISRGQFENAFNSERNRMQQQLGDQYSELAANEGYMKTLRQQVLNRLIDEALLDQYARELKLGISDEQVKQAIFATPAFQVDGKFDNSRYNGILNQMGMTADQYAQALRNQLTTQQLINGVAGTDFMLKGETDELAALVAQQRVVREATIDVNALAAKQPVTEQEIASYYEQNKNNFMTPEQFRVSYIKLDAATMQQPVSDADIQSYYDQHQDQFTQPQRTRYSIIQTKTEDEAKAVLDELNKGGDFAALAKEKSADIISARNGGDMGWLEDATIPDELKNAGLKEKGQLSGVIKSSVGFLIVRLDDIQPAKVKSLDEVRDDIAAKVKHEKALDAYYALQQKVSDAASNDTESLAGAEQAAGVKATQTGWFSKDNLPEELNFKPVADAIFNGGLVGENGAPGINSDIITVDGDRAFVLRISEHKPEAVKPLADVQEQVKALVQHNKAEQQAKVDAEKLLVDLKAGKGAEAMQAAGLKFGEPKTLSRSGRDPISQAAFALPLPAKDKPSYGMATDMQGNVVLLALDEVKQGSMPEDQKKAMVQGITQNNAQIVFEALMSNLRKEAKIKIGDALEQQ |
| 1402 | sp|P42251|PPBD\_BACSU | MAYDSRFDEWVQKLKEESFQNNTFDRRKFIQGAGKIAGLSLGLTIAQSVGAFEVNAAPNFSSYPFTLGVASGDPLSDSVVLWTRLAPDPLNGGGMPKQAVPVKWEVAKDEHFRKIVRKGTEMAKPSLAHSVHVEADGLEPNKVYYYRFKTGHELSPVGKTKTLPAPGANVPQMTFAFASCQQYEHGYYTAYKHMAKEKLDLVFHLGDYIYEYGPNEYVSKTGNVRTHNSAEIITLQDYRNRHAQYRSDANLKAAHAAFPWVVTWDDHEVENNYANKIPEKGQSVEAFVLRRAAAYQAYYEHMPLRISSLPNGPDMQLYRHFTYGNLASFNVLDTRQYRDDQANNDGNKPPSDESRNPNRTLLGKEQEQWLFNNLGSSTAHWNVLAQQIFFAKWNFGTSASPIYSMDSWDGYPAQRERVINFIKSKNLNNVVVLTGDVHASWASNLHVDFEKTSSKIFGAEFVGTSITSGGNGADKRADTDQILKENPHIQFFNDYRGYVRCTVTPHQWKADYRVMPFVTEPGAAISTRASFVYQKDQTGLRKVSSTTIQGGVKQSDEVEEDRFFSHNKAHEKQMIKKRAKITN |
| 1403 | sp|Q9CAX8|RGAP4\_ARATH | MAKVLKSSQSCHFPSPSSSSSTSCGGGNDGSNRDPHSPFNISRREEEEEEEERSEKERERFELSSALEILVSAIRRSVIGGCVGEEDLCSMEIGVPTDVRHVAHVTFDRFHGFLGLPVEFEPEVPRRAPSASATVFGVSTESMQLSYDTRGNIVPTILLMMQSHLYSRGGLRVEGIFRINGENGQEEYIREELNKGIIPDNIDVHCLASLIKAWFRELPSGVLDSLSPEQVMESESEDECVELVRLLPSTEASLLDWAINLMADVVEMEQLNKMNARNIAMVFAPNMTQMLDPLTALMYAVQVMNFLKTLIVKTLKDRKESRDKLVPASNPSPRDHNGDQSSSRQLLHLMKANKEETLDNFEAEMKDKEESADEEEEECAESVELVDIKKSSLVNNSSGGFGQKHIGWEEQRTMSKASSIVGRVNYRVELFEAWR |
| 1404 | sp|A6LD45|LON\_PARD8 | MNVYMKEKTRVFCQNSFDDLDDNIGIVMPILTECDVDEDFTEGIEKVGDTIPILPLRNMVLFPGVALPVIIGRPKSMRLIKEAVHKKSLIGVVCQKEMGTEDPILEDLYTTGVIADIVRVLEMPDGSTTVILQGKKRFELNELTETDPYLSGKITVLEDTKPDKTDREFEALISTIKDLTIKMLGAVAEPPRDLIFSIKNNKNVLYVVNFSCSNIPSGSAEKQQLLLIGDLKERAYRLLFILNREYQLVELKASIQMKTHEDINQQQKEYFLQQQIKTIQEELGGNINELEIKELREKASRKKWPAEVAQVFEKELRKLERLHPQSPDYSVQTQYVQNIVNLPWNEYSKDNFNLSHAQKVLDRDHYGLEKVKERIIEHLAVLKLKGDMKSPIICLYGPPGVGKTSLGRSIAEALRRKYVRVSLGGLHDEAEIRGHRRTYIGAMCGRIIQNIQKAGTSNPVFILDEIDKITNDFKGDPASALLEVLDPEQNNAFHDNYLDIDYDLSKVMFIATANNLNTISQPLLDRMELIEVSGYIMEEKVEIAAKHLVPKQMDVHGLKKGSVKFPKKTLQVIVEAYTRESGVRELDKKIAKIMRKLARKVASDEPIPTSIKPEDLYEYLGAVEYSRDKYQGNDYAGVVTGLAWTAVGGEILFVESSLSKGKGSKLTLTGNLGDVMKESAMLALEYIHAHAAQFNINEELFENWNVHVHVPEGAIPKDGPSAGITMVTSLVSAFTQRKVKKNLAMTGEITLRGKVLPVGGIKEKILAAKRAGIKELILCKENEKDINEIKPEYLKGLVFHYVSDIQQVVDLALLREKVDNPLF |
| 1405 | sp|B3CLB3|LON\_WOLPP | MSIGRAVNFNSTVLPVLPLRDVVIFPNIMLPLFVGREKSVHALEYAISSSSHQNEIFLIAQKDGSIDNPEPENLYEVGVLANIIQPLIKLPDNAVKVMIHGVRRGRVIEYISSHTLLQARVALDGHYEYGENEDNIDLEALRRSVIDAFDNWCKLSKKSRPEIIIDPIDQVKEVNQIVDMIASHLNIKVSDKQNILEVYNPKERLKKVFALIEREISILSAQNRLYKTIKSQVESTQKVYYLNEQLKAIQKELGEFENGDEGNILNEFEKKINETKLSEEAKEKAITDLKRYKKMNPISPEATVISSYLHWLLDLPWGKYKDAKINLNAAKKILDENHYGIEKVKDRIIEFLAVLKRVKEIKGPILCLVGPPGVGKTSLAKSMAKAVGRDFVRISLGGIRDESEIRGHRKTYIGSMPGKIIQHMKKANSCNPLFLLDEIDKMGSDSRGDPASALLEVLDTEHNKHFTDHYLEVEFDLSSVMFVATANSLNLPHPLRDRMEIIQLSGYTEDEKISIATHHLIPKLKKEHGLHQKEWEITNEALYELIRLYTRESGVRSMERELAKLMRKAVKAILTDKNKKISVETGNLQDYLGVRKYTFGIAENESLVGIVTGLAYTETGGDILMIESVLIPGKGEIKYTGKLGEVMQESIKAAYSYVRSNCLFFGIKPEKFQNNDIHLHVPEGAVPKDGPSAGSAVCTSIVSLMTNIPVNKSVAMTGEVTLRGRVLAIGGLREKLLAALRGSIKTVIIPSENEKDMQEIPANIKEEINVIFAENIDEVIKVALMHPITSIDDNNEISVSTSIENKDNTFPSSETLKH |
| 1406 | sp|Q2LVS9|LON\_SYNAS | MEVPMPESTINEDSKIFKLPEILPIMPIFHTVAFPKMMFPMDIVGNRFIQLVDEAMAKDRLLGLVLTRKAPSAEGPLCQCEDLHRVGTCVSILKLAKQAGEKAQLVVQGLARFRIVEFLEEEPYIQARVEKIEADILIKDLEIEALMANLSTLFDRVIKLSPFLPQEFAAMAKSIQEPGDLADIIASIVNASVEDKQKILETLDIRQRLREITLIVNHQLEILELGSKIQSQVQEDIDKSQRDFYLRQQLKAIREELGESDENRVEVAEYRKKIEEKMLTEEARKEAFRELDRMSRMHPASAEYSVATTYLDWITSLPWNERTQDNQDIRQARRILDEDHYGLDKAKKRIIEYLAVRKLKPDTKGPILCFVGPPGTGKTSLAQSIARALGRKFYRISLGGVHDEAEIRGHRRTYVGALPGRIIQGIRRAESSNPVFVLDEIDKVGSDFRGDPSSALLEVLDPEQNFAFMDHYLGVAFDLSHVTFITTANILDTIPPALRDRLEVIELPGYTQDEKLRIAERYLIPRQREANGLTPEQIKFTRGAARLIISGYTREAGVRNLEREIAAVCRGVASQIAEGEISSALISARDIHRYLGPVRMISDARERISKPGIAMGLAWTPTGGDLLFVEATAMKGRKGLTLTGQLGEVMKESASAALSFIRSNAVKIGIPVDFFEETDIHIHVPAGAIPKDGPSAGVTMLAALASLLTNRTVKNDLAMTGEITLRGLVLPVGGIKEKVLAAHRAGIKTIILPKWNRKDLEEIPSKVRKEMNFVFVNDMREVLNIALSRK |
| 1407 | sp|B8EMF2|LON\_METSB | MESFAPTRKGRAVFSADAAATAAPGSAGAGETLDPAKDALIIVPVRGFVLFPGIVMPVVLNGPAAIAAAQEAVRQQRSVGILMQRESGAEEASPLNMHRFGVVANILRYITAQDGGHHLICQGEQRFHVEEFLRERPYLAARVKRIEEPDERSPDIEARFVHLQGQASEALQLLPQTPPELIAAVNSAPSPGALTDLVAAYMDASPAQKQDILETIDLRARMDMVAKLLAQRIEVLRLSQEIGRQTKASLDERQREMLLREQMASIQRQLGEGDGKAQEIAELTEAIAKAKMPAEVEEAARKELRRLERMPDASAEYGMIRTYIDWLIELPWSLPEEAPIDIAEARRILDADHFGLDKIKQRIVEYLAVRKLAPQGKAPILCFVGPPGVGKTSLGQSIARAMGRKFVRVSLGGVHDEAEIRGHRRTYVGALPGNIIQAIRKAGARNCVMMLDEIDKMGASAHGDPGSAMLEVLDPEQNSTFRDNYLAVPFDLSRVVFIATANMLDTVPGPLRDRMEIIALTGYTDREKLEIARRYLVRRQLEANGLKPDQVEIDDDALIEIIRGYTREAGVRNLEREIGRVLRHVAVRIADGSASHVHVSRAELTELLGQQRFEDEVAMRLSVPGVATGLAWTPVGGDILFIEATRAPGHGKLTLTGQLGEVMRESVQAALSLIKSRAAELGVDPESFDKTDIHVHVPAGATPKDGPSAGVAMFIALVSILTGRLVRNDTAMTGEISLRGLVLPVGGIKEKVVAAARAGLTRVLLPARNRRDYDEIPQDTREKLEFVWLEKVDDAMAAAFEGMAATPAPN |
| 1408 | sp|A5EWF3|LON\_DICNV | MTDKIYPILPLRDVVVFPHVIVPLFIGREKSIAALDAAMNGSQELLLVPQRDPAVVEPTLADLHEIGSLGRIVQMAKLSDGTVKALVEGLYRVHLEALNDDEKMFSAKKRNMLEKNSTKSEEHDSIVEILIEEFAKYLRNQERSADELLETLRGINDIGRISDTIAAHMDFRIEERVHLLAMEDAYERSQRLMILLAQESEKNELNKKIKNRVKQQMERNQREYYLNEKIKAIQKELGEMDEAQNDIELLEAQIKKAKMPVDVEKKALSELNKLKQMSAMSSEANVIRNYLEWLIDYPWAIEKPARYDLEEAARILDRDHYGLEDVKERILEYLAVQKRINEHNQKEAGTIGKGPIICLIGPPGVGKTSLGKSIAEATGRDFDRIALGGLHDEAEIRGHRRTYIGALPGKIVQKLCKLGSNNPVILLDEIDKIGHDHHGDPAAALLEVLDPAQNHTFNDHYLETDIDLSNVLFIATANTLNISEPLLDRMEVIRLPGYTTQEKIQIAKRYIVPRQRKENVLKASEFKIKNGVLNDVIEDYTREAGVRNLEREIGKLARKSVRRLQEGKQKSILITPNNLKDFLGVAKYHRNDEDLQAKIGSVTGLAWTSVGGELLQIEGVAFSGKGRLTHTGQLGDVMQESIRTALSVVRSYLDDLDDNFRFDEYDIHLHLPEGATPKDGPSAGIAMATALLSALSKQAVRGDLAMTGEITLHGKVLAIGGLKEKLLAAQRGRLKMVLIPEDNLKDLDEIPEEVKAALEIVPVSHIHEVFDHAFVADHAPFKARIEQKSLPTVSAVMHETPAGRC |
| 1409 | sp|P47811|MK14\_MOUSE | MSQERPTFYRQELNKTIWEVPERYQNLSPVGSGAYGSVCAAFDTKTGHRVAVKKLSRPFQSIIHAKRTYRELRLLKHMKHENVIGLLDVFTPARSLEEFNDVYLVTHLMGADLNNIVKCQKLTDDHVQFLIYQILRGLKYIHSADIIHRDLKPSNLAVNEDCELKILDFGLARHTDDEMTGYVATRWYRAPEIMLNWMHYNQTVDIWSVGCIMAELLTGRTLFPGTDHIDQLKLILRLVGTPGAELLKKISSESARNYIQSLAQMPKMNFANVFIGANPLAVDLLEKMLVLDSDKRITAAQALAHAYFAQYHDPDDEPVADPYDQSFESRDLLIDEWKSLTYDEVISFVPPPLDQEEMES |
| 1410 | sp|A1KHB7|MPRA\_MYCBP | MSVRILVVDDDRAVRESLRRSLSFNGYSVELAHDGVEALDMIASDRPDALVLDVMMPRLDGLEVCRQLRSTGDDLPILVLTARDSVSERVAGLDAGADDYLPKPFALEELLARMRALLRRTKPEDAAESMAMRFSDLTLDPVTREVNRGQRRISLTRTEFALLEMLIANPRRVLTRSRILEEVWGFDFPTSGNALEVYVGYLRRKTEADGEPRLIHTVRGVGYVLRETPP |
| 1411 | sp|Q0CP15|NST1\_ASPTN | MAPSQHPKSAAAPATTSDQMSTASSRPTNGTAHTSAETAYPSSMTDSKPTQSGPGSRASDEQDADEAYSNHSEQHMDHSNPDGHPSKPSGRKKKKKAKKGRAGSQTLGDESSTPLSTPSVSMSHPLPPPLPPHLGTRTILKSAKDRSIWNTSTQEERENIKTFWLELGEEERRQLVKVEKDAVLKKMKEQQKHSCSCTVCGRKRTAIEEELEVLYDAYYEELEQYANNNQGSFEKGSPIVPPPRLYQPPLRSPGQHTRTQGQFHPSRGRIHEITEDEEDLEEDYDDEEEDDDEPYSDDEFEDEETRAARADFFAFGNSLTVKDGILTVADDLLKNDGKHFIDMMEQLAERRMQREEDTQYNIAAAHQSLHSGHNHPPYDEEDYDDEEDEEYDSQEEDDYDEDEMDTMTEEQRMEEGRRMFQIFAARMFEQRVLTAYREKVAEQRQQKLIEELMEEQTRTEQKNAKKAREAEKRKEKKRLQKQAKEEEKARREAEKAAEEAAAKAEQEKKLEEQRRKREEQRKKREAERKAQEEERARKEAEKQRRLREERERQAEAERKHREQKEQEKKKREEARRKEREERELREKKAKEERERKAQEDQKKANQETPETKRTSHLGPVPIPANLQPQGSSSHLQSPHLQSASPAVPKAPTPAKARQPSQQGSHGSSPRSQQASTEPFHTSISPRSMAPSQSSGASSVASKQGYGQQPMLHHPQPSTPLSPLGSVNRSLPPGFASAGLPSNPPGLPGMVPRPPIGHELPTYPPHSGPLMNQLRGFPAPNGIPIPPGINGTRPLAPGRGFPLEAAPGLPFHTQQPIAGAFASHQGGMSHGHSRQPSGSFERSPLEPHAQPFPISRPSPIKRPPSTQQEQSDANRATQRDVDNLSAQLGSSALLDDTDIPFTSNLSQSLPGATAPGSLPGPTRASFGAPSLFPDPLASKPGGFPMGPGVGANTWGTQIPFVSSAFPGAPAWGTAHGSGWSNNAFGSGGHHRAHTSRPVAIRLLVIQACKQLDTMSSSKAGSGYHDVKIVLQQVEQLRPSNEPSIPLKEMLDICDTEGNTQNGGGSFSIKKDETGEFVKFEPDNNSAASGHRGSIVPGEIGSPVPSSSMPAFGGIGNTPSVLRQFSSPTGF |
| 1412 | sp|Q75CK5|NST1\_ASHGO | MGLDNPTVVTGQNVQFSYDMASSSKKSRNKKKKSKPSIKEPQSAPLLAVETESVEETHPQAELYDSEADYPSSRVIRRAANGDVIVESLNEAGSGVQAQQAQQQKHSAISSKLVAHWESLSPEEKRKILSISKEEVFSVTKSYQTLHNCNCTVCGRRHVPMEQELESIYNQLYEMARQDNPNSDFVLFHLNLIKELQRGTSSGAEQRTASLQSRGASFLDNMRDEAVKYCISNEGVDRLKEEVLQFKHNKQRQYSEQQRKQQLPPVHTHNSPSDSPSIDELPEREQESLLHTLPDELGPDSSEVNEQLREKYLKFAKTFVSSHPKIAQEYVNRMMMYPDMRALTEDLIKNNGQDFVKAMEAFVSSQQDGPLPGSPEHTKLTAEQFQELQKQLVEKAGLDMSQSPVPTNDDPPQDCTDTDEIDTDLRGRVLLKQFMAGESIINQAFKSLQGSNKNQLKKSVSHSSQGLPEDSEYDEDLNYSDSYDDEDSPYDDDVYDDNDAESYDEDDDSHHKHHHQQHLHHHHREQDAEADDYDSDIDQQERLEEGRGLIQIAITKLLQRKLIVSYQEKQAERNRERLLLELEAEEQQKKEKEEKKLKKKEKEKEKKRQMQLAKEEEKRKQVEEEARLKQEAEAREMQRRENQRKKVEEAKRKKDLEMRKRLEEQRRREEEQERQRRMKEEIKRKRDQERKQREEEQRKRKQEKELKKLQSLEVKKKREEDDKPTEESSQEDNLHKENISHDLLNQLAHPAGGVPYGIVPVKQEMSEEKTVNDDIFNMINEATSKSISTSKSISTSPSHFNALLQKGIPRKSIDTSSIGLNYASAQAALPQPLSFPVDLTEALGFAQKTQVQTSISGPPGLSKNTAASSWDNVPGYVQLSPKSVTQNHSNVQVQTTPHGSVPGQHRASYSTFGASVDPNDTFSGDLTNLTNFLVQTKLEDVSTSAPLHSVSSSTTALPRGETSIYGNNLWNNEQPHIGSLISSHASGPSTQAPLHPRRSIWDNNASVNNYAADLWGNTSSNSTPIAPSTAVASSMVSAHQASATDVIIQAYTLLSTSGGFVPIDVLYQNCLSYLTDKGSFTFGQFVGQLLALRNANECEVLSNDVGMMTHCRFTTPQLQSTLYAPAAAPGGSDLPPRQPSKGLFSDPVSTSTVGLTTIPVLSTSTGSTSSATPTGSIALGQPSSGQSNFFDFNQQLAQPSRANNIWG |
| 1413 | sp|Q6CTE4|OCA1\_KLULA | MSAIDNYQDEEEDDIVCVNEEIETGHPRVTILHPPNERIVPPLNFCPVERYLYRSGQPSNVNFPFLLNLKLKTIIWLANEEPQDALLEFCDDHNIQLQFAAINPDGGEDDNPWDGLTEHSIRNALHTIVNSESYPLLVCCGMGRHRTGTVIGCLRRLMGWNLASVSEEYRRFTGSRGGRILVELLIEAFDITSVEIDREKAPNWLLTALS |
| 1414 | sp|P23727|P85A\_BOVIN | MSAEGYQYRALYDYKKEREEDIDLHLGDILTVNKGSLVALGFSDGQEAKPEEIGWLNGYNETTGERGDFPGTYVEYIGRKKISPPTPKPRPPRPLPVAPGPSKTEADSEQQASTLPDLAEQFAPPDVAPPLLIKLVEAIEKKGLECSTLYRTQSSSNPAELRQLLDCDTASLDLEMFDVHVLADAFKRYLLDLPNPVIPVAVSSELISLAPEVQSSEEYIQLLKKLIRSPSIPHQYWLTLQYLLKHFFKLSQTSSKNLLNARVLSELFSPLLFRFPAASSENTEHLIKIIEILISTEWNERQPAPALPPKPPKPTTVANNGMNNNMSLQDAEWYWGDISREEVNEKLRDTADGTFLVRDASTKMHGDYTLTLRKGGNNKLIKIFHRDGKYGFSDPLTFNSVVELINHYRNESLAQYNPKLDVKLLYPVSKYQQDQVVKEDNIEAVGKKLHEYNTQFQEKSREYDRLYEDYTRTSQEIQMKRTAIEAFNETIKIFEEQCQTQERYSKEYIEKFKREGNETEIQRIMHNYEKLKSRISEIVDSRRRLEEDLKKQAAEYREIDKRMNSIKPDLIQLRKTRDQYLMWLTQKGVRQKKLNEWLGNENTEDQYSLVEDDEDLPHHDEKTWNVGSSNRNKAENLLRGKRDGTFLVRESSKQGCYACSVVVDGEVKHCVINKTATGYGFAEPYNLYSSLKELVLHYQHTSLVQHNDSLNVTLAYPVYAQQRR |
| 1415 | sp|Q9SIE7|PLAT2\_ARATH | MMPRRDVLFLSLLLVIATVSAVALADDEADCVYTFFLRTGSTFKAGTDSIISARVYDKYGDYIGIRNLEAWGGLMGPGYNYYERGNLDIFSGKAPCLPSPVCSLNLTSDGSGDHHGWYVNYVEVTTAGVHAKCSYQSFDVEQWLASDTSPYELSAVRNNCPVSLRESVGRVGSEIRKTLSWIV |
| 1416 | sp|P05055|PNP\_ECOLI | MLNPIVRKFQYGQHTVTLETGMMARQATAAVMVSMDDTAVFVTVVGQKKAKPGQDFFPLTVNYQERTYAAGRIPGSFFRREGRPSEGETLIARLIDRPIRPLFPEGFVNEVQVIATVVSVNPQVNPDIVAMIGASAALSLSGIPFNGPIGAARVGYINDQYVLNPTQDELKESKLDLVVAGTEAAVLMVESEAQLLSEDQMLGAVVFGHEQQQVVIQNINELVKEAGKPRWDWQPEPVNEALNARVAALAEARLSDAYRITDKQERYAQVDVIKSETIATLLAEDETLDENELGEILHAIEKNVVRSRVLAGEPRIDGREKDMIRGLDVRTGVLPRTHGSALFTRGETQALVTATLGTARDAQVLDELMGERTDTFLFHYNFPPYSVGETGMVGSPKRREIGHGRLAKRGVLAVMPDMDKFPYTVRVVSEITESNGSSSMASVCGASLALMDAGVPIKAAVAGIAMGLVKEGDNYVVLSDILGDEDHLGDMDFKVAGSRDGISALQMDIKIEGITKEIMQVALNQAKGARLHILGVMEQAINAPRGDISEFAPRIHTIKINPDKIKDVIGKGGSVIRALTEETGTTIEIEDDGTVKIAATDGEKAKHAIRRIEEITAEIEVGRVYTGKVTRIVDFGAFVAIGGGKEGLVHISQIADKRVEKVTDYLQMGQEVPVKVLEVDRQGRIRLSIKEATEQSQPAAAPEAPAAEQGE |
| 1417 | sp|P92983|PROD1\_ARATH | MATRLLRTNFIRRSYRLPAFSPVGPPTVTASTAVVPEILSFGQQAPEPPLHHPKPTEQSHDGLDLSDQARLFSSIPTSDLLRSTAVLHAAAIGPMVDLGTWVMSSKLMDASVTRGMVLGLVKSTFYDHFCAGEDADAAAERVRSVYEATGLKGMLVYGVEHADDAVSCDDNMQQFIRTIEAAKSLPTSHFSSVVVKITAICPISLLKRVSDLLRWEYKSPNFKLSWKLKSFPVFSESSPLYHTNSEPEPLTAEEERELEAAHGRIQEICRKCQESNVPLLIDAEDTILQPAIDYMAYSSAIMFNADKDRPIVYNTIQAYLRDAGERLHLAVQNAEKENVPMGFKLVRGAYMSSEASLADSLGCKSPVHDTIQDTHSCYNDCMTFLMEKASNGSGFGVVLATHNADSGRLASRKASDLGIDKQNGKIEFAQLYGMSDALSFGLKRAGFNVSKYMPFGPVATAIPYLLRRAYENRGMMATGAHDRQLMRMELKRRLIAGIA |
| 1418 | sp|P65256|LDH1\_STAAN | MNKFKGNKVVLIGNGAVGSSYAFSLVNQSIVDELVIIDLDTEKVRGDVMDLKHATPYSPTTVRVKAGEYSDCHDADLVVICAGAAQKPGETRLDLVSKNLKIFKSIVGEVMASKFDGIFLVATNPVDILAYATWKFSGLPKERVIGSGTILDSARFRLLLSEAFDVAPRSVDAQIIGEHGDTELPVWSHANIAGQPLKTLLEQRPEGKAQIEQIFVQTRDAAYDIIQAKGATYYGVAMGLARITEAIFRNEDAVLTVSALLEGEYDEEDVYIGVPAVINRNGIRNVVEIPLNDEEQSKFAHSAKTLKDIMAEAEELK |
| 1419 | sp|B0TZA7|LON\_FRAP2 | MSEVLNVVPVIPLRDVVIYPSMTLPLNVGRKKSIEAVKQASNSYNNYILLATQKNGSSSGDVVDNIYDIGTLAKVVQIMKLPDGSLKIIVEGIAKRLVAKYESIDGCIYANLDSLHIDDNYDPSQIDKELKAILLSITDSLKKFVDISGKVSKESLATLINTEEPHKFIYEISTILNTEIAKKQKILEATDIKNKALLLLSCLYEELEILELEAKIKDRVKSQVDKNQREYYLNEQVKAIYKELGEADEESEVTALKSRIEATKMSKEAKEKCLKELKKLKAMPPSSSESAVSRNYIETILSLPWGKKAKVKKDINLAEKVLEKDHYGIKKVKERILEHLAVQIKRDTNAKAPILCLVGPPGVGKTSIGQSIARATGREYVRMALGGVRDESEIRGHRRTYIGSMPGQIIQKIIKSKTENPLFLLDEIDKISSDFRGDPSAALLEVLDPEQNSTFNDHYLEIDYDLSKVMFVATANSLDIDPALRDRLEIIHLSGYTEIEKQAIAKQYLVPKALENNGLTKNEINFTPKATLDIIRYYTREAGVRNLQQKIDGVCRKAVKNLLKDPEHGKVSITQNNLEDYLGVHQFDYGIKNAKPKVGQVTGLAWTSVGGELLTIEALAMPGKGKVKYTGSLGDVMKESIDAAFSVVRSISKDYKLEDDFYEKKDIHIHVPEGATPKDGPSAGIAMTTALVSVYTNKPVRNDIAMTGEVTLRGDVLAIGGLKEKLLAALRGGIKEVLIPKQNVKNLADVDKEILEKLEITPVNSIKEVLERVF |
| 1420 | sp|Q9RXG4|LON\_DEIRA | MPDSTALPTTIPVCPVRGSVIYPTMVQHIDASRAISINAIEAAMSGEKVILIVSQRDKDVDDPKGEDLYDVGTACNVLRVRKNPDGTLQMLVSAVARVQVSAYQLGDYLTADIEPLDAGKSGGVELQALSRELKDKFETVASGGRINAESVQTINSKDDIGEMADHIAFNLDFKLEDKQAILEAANVTERLKKLLTLLDTEQEVQAVQAKIRAQVKEEIDKNQREYYLREQMKVIQKELQGGDEEEGDEAEAFRAKIDALGLNPEVKKEIDREVNRLARMHPDAAEASVIRTYLTWVTELPWNERSDDRLDVEEAAQVLDEDHYGLEKVKDRVLEFLAVRRLRKERAERGEISAEEVNKGPILVFTGPPGVGKTSIAQSIAKSLGRKYVRIALGGARDESDIRGHRRTYIGAMPGRIIQGIRTAGTKNPVILLDEVDKLGSSYQGDPSSALLEVLDPSQNQHFTDHYLGVPFDLSEVMFIATANYPEQIPAALMDRMEVIEFNSYIEQEKLEIAKRYLLPRQLLQNGLKPNQISFSDAALEKLISHYTREAGVRNLEREIGTVARKVARNIATGKTKRAKVTDKELEKYLGQPRHTPETENMEDMVGVSTGMFYTPVGGDILFVETSIMTGKGGGLLLTGQLGDVMKESARAALTYAKSNAERFHIDREKLDNSEIHVHVPAGAIPKEGPSAGGAMATSLISALTGIPARHDVAMTGEMTLTGRYLPIGGLKEKVLGARRAGIKHIILPKANERDINDIPLHLRSSMRFHPCETVDQVLDVALVGGLKALETPRTDSQVTPPADSGSKGRKTGRRSPEARA |
| 1421 | sp|Q9LQX2|MPSR1\_ARATH | MATEQEAEVGTETSSVSGRFLRNRDLYLFLPFLLGFSDQESSNGDDDDVASSRERIILVNPFTQGMIVLEGSSGMNPLLRSLLESREEGRPPASKASIDAMPIVEIDGCEGECVICLEEWKSEETVKEMPCKHRFHGGCIEKWLGFHGSCPVCRYEMPVDGDEIGKKRNDGNEIWVRFSFNDGRRIRDFSAQDGGNSDGVESEN |
| 1422 | sp|P70236|MP2K6\_MOUSE | MSQSKGKKRNPGLKIPKEAFEQPQTSSTPPRDLDSKACISIGNQNFEVKADDLEPIVELGRGAYGVVEKMRHVPSGQIMAVKRIRATVNSQEQKRLLMDLDVSMRTVDCPFTVTFYGALFREGDVWICMELMDTSLDKFYKQVIDKGQTIPEDILGKIAVSIVKALEHLHSKLSVIHRDVKPSNVLINTLGQVKMCDFGISGYLVDSVAKTIDAGCKPYMAPERINPELNQKGYSVKSDIWSLGITMIELAILRFPYDSWGTPFQQLKQVVEEPSPQLPADKFSADFVDFTSQCLKKNSKERPTYPELMQHPFFTVHESKAADVASFVKLILGD |
| 1423 | sp|C3VEQ3|NCED\_ONCHC | MASSMSLFISSSSNQTVNSDTLRLKQSSKPTNLIHPNPIKLVRSRQVIAGSIQCSTTPNSFGLDTTSPSPFYPLPPTCPKEIHPEQSAKPSRPSWNLFQRAAAAVLEAVEDNLIQNLLESGHPLPKTADPAVQIAGNFAPVGEQKPHHDLPVDGRIPPLINGVYLRNGANPLFEPVAGHHFFDGDGMVHAVHLRNGRASYACRFTETERLKQERAVGRAIFPKAIGELHGHSGIARLLLFYARGLLGLIDHSRGTGVANAGLIYFNNRLLAMSEDDLPYHVRIKPNGDLETAGRYDFDGQLTTTMIAHPKLDPETREFFALSYDVIKKPYLKYFRFSPCGEKSPDVEIPLPQPTMMHDFAITKNFVIIPDQQVVFKLQEMICGGSPVVYDKEKIARFGVLPKYAIDASEMQWIDVPDCFCFHLWNSWEEPETEEVVVIGSCMTPPDSIFNESEENLQSVLTEIRLNLRTGKSTRRPILRPGNSQINLEAGMVNRNRLGRRTRFAYLAIAEPWPKVSGFAKVDLASGEIQRFEYGDGGYGGEPYFVPREGCDREDGGYVLAFVHDEREGSSELLIMNAADMRLEAAVRLPSRVPYGFYGTFVSATELHSQA |
| 1424 | sp|Q9M126|NAC69\_ARATH | MVKDLVGYRFYPTGEELINHYLKNKILGKTWLVDEAISEINICSYDPIYLPSLSKIKSDDPVWYFFCPKEYTSAKKKVTKRTTSSGYWKATGVDRKIKDKRGNRGEIGIKKTLVYYEGRVPKGVWTPWVMHEYHITCLPQDQRNYVICQVMYKGEDGDVPSGGNNSSEPSQSLVSDSNTVRATSPTALEFEKPGQENFFGMSVDDLGTPKNEQEDFSLWDVLDPDMLFSDNNNPTVHPQAPHLTPNDDEFLGGLRHVNREQVEYLFANEDFISRPTLSMTENRNDHRPKKALSGIIVDYSSDSNSDAESISATSYQGTSSPGDDSVGSSNRQFLQTGGDEILSSCNDLQTYGEPSISSSTRQSQLTRSIIRPKQEVKQDTSRAVDSDTSIDKESSMVKTEKKSWFITEEAMERNRNNPRYIYLMRMIIGFILLLALISNIISVLQNLNPAMKFDRER |
| 1425 | sp|Q7F2L3|NAC48\_ORYSJ | MSGGQDLQLPPGFRFHPTDEELVMHYLCRRCAGLPIAVPIIAEIDLYKFDPWQLPRMALYGEKEWYFFSPRDRKYPNGSRPNRAAGSGYWKATGADKPVGSPKPVAIKKALVFYAGKAPKGEKTNWIMHEYRLADVDRSARKKNSLRLDDWVLCRIYNKKGGLEKPPAAAVAAAGMVSSGGGVQRKPMVGVNAAVSSPPEQKPVVAGPAFPDLAAYYDRPSDSMPRLHADSSCSEQVLSPEFACEVQSQPKISEWERTFATVGPINPAASILDPAGSGGLGGLGGGGSDPLLQDILMYWGKPF |
| 1426 | sp|Q5B3C8|NST1\_EMENI | MSSHVPAVTAPTPSTVSENSASKDSHSSPMPESKPVSVNRKKQKRREKAARLAAQRQAANGHAPSDTLDVNGSSSTVLDNDVSHEQSGGGYDDKSEKVLNGHGHNTQELPHPSEHDPQGTTSRKSKKKRGKKGRNGSQASSTPMSTPSISLSNAPRPPLSSHFGSQSSSKLLKERSIWNTSTQEERENIKTFWLELGEEERRQLVKVEKDAVLKKMKEQQKHSCSCTVCGRKRTAIEEELEVLYDAYYDELEQYANNTQGSFERGPAILPPPGLYQPPLRSPGQHTHTHGQFHPSRGRIHEPEDDEDLEEDYDEDEEDDEPYSDEEYEDDEGSAARADFFAFGNSLTVKVADDLLKNDGKHFIDMMEQLAERRMQREEDTQYGIAAAHQSLHSSHNHGPLDDEDYDDEEDEDYDSQEEEEYEEDEMDAMTEEQRMEEGRRMFQIFAARMFEQRVLTAYREKVAEQRQQKLIEELLEEENLNEQRNAKKAREAQKRKDKKRLAKLAKDEEKARREAQKAAEEAAAKAEQERKLEEQRKKKEEQRKKREAERKAQEEERARKEAEKHKRLREERERQEEAERRQREQKEQEKKRREEAKRKEREERELREQKAKQERERKAQDEQSRRERERVAQEQAKRAPNLQPVSPVSPPPESATPVVSKAPTPAKGRRPSQQGSHSSSPRSQSASAEASQVSPRSAPLSQSSGSSIPKYGSGHPILHPHPGAPMSPLGRTHPPGLSPSNPPGLSGLVPRPPMGHELPTYPPHSSPYMNQLRGFPAPNGIPVLPGMNGTRPMPPGRGFPLDAPGIPFHAQPPFSGIFSPQPSGLPHGHSRQPSNSFERSPLDTSAQPFPISRPSPIKRPPSTQQEQRNSRRDVDDLSAQLGSSALLDDSDVPLTSSQLSQSLPGTTPAPVMPGPARASFAGSSLFPDPLSVAKHANFPVSPVIGGSTWGAQMPFGAPFPGGPTWGYTPANNNAFGAGIHHRAHTSRPVAIRLLVIQACKQLSTMSPSKDSGGYHDVNAVLRQVEQLRPSNEPSISLKEMLDICDTEGNAQNGGGTFSIKSGQTGELVKFEPDAVSTTTGHRGSIVPGEIGSPIPSSTMPALGGIGLGTPPSSALRQFSSPTTGF |
| 1427 | sp|P0AA17|OMPR\_ECOL6 | MQENYKILVVDDDMRLRALLERYLTEQGFQVRSVANAEQMDRLLTRESFHLMVLDLMLPGEDGLSICRRLRSQSNPMPIIMVTAKGEEVDRIVGLEIGADDYIPKPFNPRELLARIRAVLRRQANELPGAPSQEEAVIAFGKFKLNLGTREMFREDEPMPLTSGEFAVLKALVSHPREPLSRDKLMNLARGREYSAMERSIDVQISRLRRMVEEDPAHPRYIQTVWGLGYVFVPDGSKA |
| 1428 | sp|O88767|PARK7\_RAT | MASKRALVILAKGAEEMETVIPVDIMRRAGIKVTVAGLAGKDPVQCSRDVVICPDTSLEEAKTQGPYDVVVLPGGNLGAQNLSESALVKEILKEQENRKGLIAAICAGPTALLAHEVGFGCKVTSHPLAKDKMMNGSHYSYSESRVEKDGLILTSRGPGTSFEFALAIVEALSGKDMANQVKAPLVLKD |
| 1429 | sp|Q8UW59|PARK7\_CHICK | MASKRALVILAKGAEEMETVIPTDVMRRAGIKVTVAGLTGKEPVQCSRDVLICPDASLEDARKEGPYDVIVLPGGNLGAQNLSESAAVKDILKDQESRKGLIAAICAGPTALLAHGIGFGSKVITHPLAKDKMMNGAHYCYSESRVEKDGNILTSRGPGTSFEFGLAIVEALMGKEVAEQVKAPLILKD |
| 1430 | sp|O04951|PP2A5\_ARATH | MPPATGDIDRQIEQLMECKALSETEVKMLCEHAKTILVEEYNVQPVKCPVTVCGDIHGQFYDLIELFRIGGSSPDTNYLFMGDYVDRGYYSVETVSLLVALKVRYRDRLTILRGNHESRQITQVYGFYDECLRKYGNANVWKHFTDLFDYLPLTALIESQVFCLHGGLSPSLDTLDNIRSLDRIQEVPHEGPMCDLLWSDPDDRCGWGISPRGAGYTFGQDIATQFNHTNGLSLISRAHQLVMEGFNWCQEKNVVTVFSAPNYCYRCGNMAAILEIGENMDQNFLQFDPAPRQVEPETTRKTPDYFL |
| 1431 | sp|O69054|PTXD\_PSEST | MLPKLVITHRVHDEILQLLAPHCELMTNQTDSTLTREEILRRCRDAQAMMAFMPDRVDADFLQACPELRVVGCALKGFDNFDVDACTARGVWLTFVPDLLTVPTAELAIGLAVGLGRHLRAADAFVRSGEFQGWQPQFYGTGLDNATVGILGMGAIGLAMADRLQGWGATLQYHEAKALDTQTEQRLGLRQVACSELFASSDFILLALPLNADTQHLVNAELLALVRPGALLVNPCRGSVVDEAAVLAALERGQLGGYAADVFEMEDWARADRPRLIDPALLAHPNTLFTPHIGSAVRAVRLEIERCAAQNIIQVLAGARPINAANRLPKAEPAAC |
| 1432 | sp|Q9PK96|RADA\_CHLMU | MTTTKIKTQWACSECGSYSPKWLGQCPGCFQWNTLVEEIHSSKLKTSSYPLSSTTPVPLNTVKFQEEIRISTRSKGWNRLLGGGTVCGSLTLLGGEPGIGKSTLLLQISSQFAEQGYKVLYVCGEESVSQTSLRAQRLQISSSNIFLFPETNLEDIKQQISDLAPDILIIDSIQIIFSPSLSSAPGSVAQVRETTAELMHIAKQKQITTFIIGHVTKSGEIAGPRILEHLVDTVLYFEGNAHTNYRMIRSVKNRFGPTNELLILSMQTDGLHEVENPSGFFLQEKVVETTGSTIIPIVEGSETLLVEVQALVSSSPFSNPVRKTSGFDPNRFSLLLAVLEKRANVKLYTSDVFLSIAGGLKITQPSADLGAVLSVVSSLYNRYLPKNYTYTGEIGLGGEIRHVTHIEHRIKESIIMGFKGIVMPSGQIKGLPKEYLDQIDIIGVKTIKDAVRLLQ |
| 1433 | sp|P35639|DDIT3\_MOUSE | MAAESLPFTLETVSSWELEAWYEDLQEVLSSDEIGGTYISSPGNEEEESKTFTTLDPASLAWLTEEPGPTEVTRTSQSPRSPDSSQSSMAQEEEEEEQGRTRKRKQSGQCPARPGKQRMKEKEQENERKVAQLAEENERLKQEIERLTREVETTRRALIDRMVSLHQA |
| 1434 | sp|Q92JA1|DEGPL\_RICCN | MVNLKIVIVIIVLISSNVVLAKENSRSLKVAAQEENEFTEINSAPLKVSEAARYSFADIVEPLIPAVVNISTIEYVNSKSENAEKDPLQEKVNDFLEKLNIPLNLEEVDQTPKSVPLGSGFIIEPNGLIVTNYHVIANVDKINIKLADNTELSAKLIGNDTKTDLALLKIDSEEPLPFVEFGDSNDARVGDWVIAIGNPFGNLGGTVTSGIISSKGRDIDIDTDNIVDNFIQTDAAINNGNSGGPMFNLDQKVIGVNTAIFSPLGTNIGIGFAIPSNTAKPIIERLKKDGKVSRGRLGVTIQDLTEDISEGLGLKNTRGVLVAKVQEDGPGDKAGIKTGDIIIEFADIPVKNTKKLRVIIADAPIDQEVKVKILRDKKELELPIKITSDNEEVTKDSTEETNKKEITNKEENNLSITKNNITFGNLTEELRQKYTIPQDKMGIVITNIDEEESSFKIGDLITNINQKSIDDISKLEELYENAKKSDKKNILLLIERGSSNMFVPLQVM |
| 1435 | sp|Q3Z600|DNAJ\_SHISS | MAKQDYYEILGVSKTAEEREIKKAYKRLAMKYHPDRNQGDKEAEAKFKEIKEAYEVLTDSQKRAAYDQYGHAAFEQGGMGGGGFGGGADFSDIFGDVFGDIFGGGRGRQRAARGADLRYNMELTLEEAVRGVTKEIRIPTLEECDVCHGSGAKPGTQPQTCPTCHGSGQVQMRQGFFAVQQTCPHCQGRGTLIKDPCNKCHGHGRVERSKTLSVKIPAGVDTGDRIRLAGEGEAGEHGAPAGDLYVQVQVKQHPIFEREGNNLYCEVPINFAMAALGGEIEVPTLDGRVKLKVPGETQTGKLFRMRGKGVKSVRGGAQGDLLCRVVVETPVGLNEKQKQLLQELQESFGGPTGEHNSPRSKSFFDGVKKFFDDLTR |
| 1436 | sp|A3M8W9|DNAK\_ACIBT | MAKIIGIDLGTTNSCVAVLEGDKVKVIENAEGARTTPSIIAYKDGEILVGQSAKRQAVTNPKNTLFAIKRLIGRRYEDQAVQKDIGLVPYKIIKADNGDAWVEVNDKKLAPQQISAEILKKMKKTAEDYLGETVTEAVITVPAYFNDAQRQATKDAGKIAGLDVKRIINEPTAAALAFGMDKKEGDRKVAVYDLGGGTFDVSIIEIADLDGDQQIEVLSTNGDTFLGGEDFDNALIEYLVEEFKKEQNVNLKNDPLALQRLKEAAEKAKIELSSSNATEINLPYITADATGPKHLVINVTRAKLEGLVADLVARTIEPCKIALKDAGLSTSDISDVILVGGQSRMPLVQQKVQEFFGREPRKDVNPDEAVAIGAAIQGAVLSGDKNDVLLLDVTPLTLGIETMGGVLTPIIEKNTTIPAKKSQVFSTAADNQPAVDISVYQGERKMAQQNKLLGNFQLGDIPPAPRGVPQIEVSFDINADGILKVSAKDKSTGKEQSIQIKANSGLSDAEIEAMIKDAEANAEEDRKFEELAKARNEADALISSSNKAVKDLGDKVTEDEKTAVNTAVSELEAATKENDVEAIKAKTEALQNILMPITQRAYEQAQQAGGAEGFDPNAFQGGDAGQQKADDGVVDAEFTEVKDDKK |
| 1437 | sp|P75344|DNAK\_MYCPN | MSTDNGLIIGIDLGTTNSCVSVMENGRPVVLENPEGKRTTPSIVSYKNNEIIVGDAAKRQMVTNPNTIVSIKRLMGTSNKVTVKNPDGSTKELTPEEVSAQILSYLKDYAEKKIGKTISRAVITVPAYFNDAERNATKTAGKIAGLNVERIINEPTAAALAYGIDKSNREMKVLVYDLGGGTFDVSLLDIAEGTFEVLATAGDNRLGGDDWDNKIIEFILAHIAQEHNGLNLSNDKMAMQRLKEAAERAKIELSAQLEAIISLPFLTVTEKGPVNVELKLTRAKFEEITKQLLERTRNPISDVLREAKIKPEEINEILLVGGSTRMPAVQKLVESMVPGHSPNRSINPDEVVAIGAAIQGGVLRGDVKDVLLLDVTPLTLSIETLGGVATPLIKRNTTIPVSKSQIFSTAQDNQESVDVVVCQGERPMARDNKSLGRFNLGGIQPAPKGKPQIEITFSLDANGILNVKAKDLTTQKENSITISDNGNLSEEEIQKMIRDAEANKERDNVIRERIELRNEGESIVSTIKEILQSPEAKDFPKEEKEKLDKITGGIDAAIKANDYTKLKAEIENFKKWREEMAKKYNPNGDQGQPAQ |
| 1438 | sp|A7I2D4|DNAK\_CAMHC | MSKVIGIDLGTTNSCVSVYERGESKIIPNKEGKNTTPSVVAFTDKGEILVGDSAKRQAVTNPEKTIYSIKRIMGLMMNEKNAQEAKKRLPYKIVDRNGACAVEIAGKVYTPQEISAKVLMKLKEDAESYLGEKVVDAVITVPAYFNDSQRKATKEAGTIAGLNVLRIINEPTAAALAYGLDKKESERIVVYDLGGGTFDVTVLETGDSVVEVLATGGNAFLGGDDFDNKLIDYLLSEFKNESGIDIKGDVMAMQRLKEAAENAKKELSSAMETTVNLPFITADQTGPKHLMKTISRAKFEGMIDNLVGETISTLNSVVSDAGLKMSDIKEVVMVGGSTRVPLVCEEVKKAFGKDLNKSVNPDEVVAVGAAVQGAVIKGDVKDVLLLDVTPLSLGIETLGGIMTKLIDKGTTIPTKKSQVFSTAEDNQSAVTINVLQGEREFARDNKSLGNFNLDGIMPAPRGVPQIEVEFDIDANGILTVSAKDKATGKATDIKITGSSGLSDEEIDKMVKDAELHKEDDKKRKESVDARNGADAIAHQTEKTLNEMGEKIPADLRAKIEAALNDLKAVLKDENATKEQIDAKVSALSKTAEEMYKAASAGKNAGGTAGGNGNAGSNGNSGAKKDDDVIDAEVE |
| 1439 | sp|P30721|DNAK\_CLOAB | MSKVIGIDLGTTNSCVAVMEGGDPAVIANSEGARTTPSVVSFQKNGERLVGQVAKRQSITNPDKTIISIKRKMGTAEKVAIDDKNYTPQEISAMILQKLKADAEAYLGETVTQAVITVPAYFNDSQRQATKDAGKIAGLEVLRIINEPTAASLAYGLDKMDTNQKILVYDLGGGTFDVSVLELGDGVFEVKSTNGNTHLGGDDFDEKIMDYIAEEFKKDNGIDLRNDKMALQRLKEAAEKAKIELSSSTQTNINLPFITADATGPKHIDMNLTRAKFNELTEGLVQDTIEPMKKALSDAGLSINDIDKIVLVGGSTRIPAVQEAVKNYTGKDPSKGVNPDECVAIGAAIQAGVLTGDVKDVLLLDVSPLTLGIETLGGVATPLIERNTTIPTRKSQVFSTAADNQPSVEINIVQGERKMAADNKSLGRFTLDGIAPAPRGVPQIEVTFDIDANGIVNVSAKDKGTGKESHITITASTNLSDEEIDKAVKDAEKFAEEDKKKKENIEVKNNADQIVFQTDKALKDLGDKVSAEDKSNIEAKKEALSKVKDGDDIEAIKKATEDLTQALYAITTKMYEQSGAQGAPGADPNAGASQKTNGGADDNVVDADFKVDNDK |
| 1440 | sp|B8D8V4|DNAK\_BUCA5 | MGKIIGIDLGTTNSCVAIMDGNKPRVLENAEGDRTTPSIIAYTQEGEVLVGQPAKRQAITNPKNTLFAIKRLIGRKFKDDEVQRDIKIMPYNIVNSDNGDAWIDVKKQKMAPPQISAEVLKKMKKTAEDYLGETIKEAVITVPAYFNDAQRQATKDAGRIAGLEVKRIINEPTAAALAYGLDKGKGNRTIAVYDLGGGTFDISIIEIDEVDKEKTFEVLATNGDTHLGGEDFDSRLINYLVTEFKKEQGIDLRNDPLSMQRLKESAEKAKIELSSAQQTDVNLPYITADSNGPKHLNIKVTRAKLESLVEDLILRSIEPLKVALKDAGLSVTDINDVILVGGQTRMPMVQSKVADFFGKEPRKDVNPDEAVAVGAAVQGGVLSGDVKDVLLLDVTPLSLGIETMGGIMTSLINKNTTIPTKHSQIFSTAEDNQSAVTIHVLQGERKRSSDNKSLGQFNLDGINPAPRGTAQIEVTFDIDSDGILHVSAKDKKTGKEQKITIKASSGLNEEEIKKMVNDAEANSEADQKFEELIQTRNQGDQLVHSIKKQLNENKNSIEEESKKDIQLALNKLENALKGEDKSDIEKNIQNLLKISSKLTEINQKKSEKDQKDNNMSANKKDENVVDAEFEEIKDPKK |
| 1441 | sp|Q6YPM1|DNAK\_ONYPE | MTKTNKIIGIDLGTTNSCVAVMEGGEAKVIPNAEGGRTTPSVVSFKGDEIMVGEIAKRQVITNPNTISSIKRHMGEANYTVNVGGKKYTPQEISAMILANLKKTAEDYLGAQVSEAVITVPAYFNDAQRQATKDAGKIAGLNVKRIINEPTAAALSYGVDKGDKEQTILVFDLGGGTFDVSILTLVDGTFEVLSTSGDNALGGDDFDLRIVDFLVQEFKKENSVDLSKDKMAMQRLKDAAEKAKKELSGVTSSQISLPFLTMSEAGPLHLEYNMTRAKFNELTKDLIDRCLAPVKRALGDAKLDIEKIDQVLLVGGSTRIPAVQDLVKNELKKTPNKSINPDEVVGIGAAIQGGILSGDVKDILTLLDVTPLSLGIETLGNVFTKLIERNSTIPTSEKQVFSTAADNLPAVDIHVLQGERPLAADNKTLGRFQLTDRPPHRAEFLKLKITFDLDANGIVSVKAKDLGTNKEQKITISGSGALKEEEIQRMIREAEENAEVDRVKKESIDARNEAENMIFHTKKSLEDLKADVTPEEKDKVETQIKELEEALKGDDTALIKEKTASLTKESQGIAMKAYQKAQEKQAQEKGTQENTTAKNEKPQDEVVDADFEEKK |
| 1442 | sp|Q04VC7|DNAJ\_LEPBJ | MSERSYYDILGVSKSANDEEIKSAYRKLAIKYHPDKNKGNKESEEKFKEATEAYEILRDPKKRQAYDQFGKAGVGAGAGGFGQGAYTDFSDIFGDFGDIFGDFFGGGRGGFGGGRRSGSQRGSDLRYNLEVSLEDAALGREYKIEIPRLESCGDCNGSGAAKGSSPTTCPDCGGSGQIRRTQGFFSVATTCPTCRGKGTTISNPCKTCGGQGLQEKRRTINIKIPPGVETGSRLKVSGEGEAGPNGGSHGDLYVVTHIKRHELFERQGNDLILVRKITLAQAILGAEIEVPTIDGKKAKMKIPEGTESGQVFRLKGHGMPYLGAYGKGDQHVVVKIEIPKKITRRQRELIEAFARESGENIPGSKGKIFTK |
| 1443 | sp|Q5KWZ7|DNAK\_GEOKA | MSKIIGIDLGTTNSCVAVLEGGEVKVIPNPEGNRTTPSVVAFKNGERLVGEVAKRQAITNPNTIISIKRHMGTDYKVEIEGKQYTPQEISAIILQYLKSYAEDYLGEPVTRAVITVPAYFNDAQRQATKDAGRIAGLEVERIINEPTAAALAYGLDKEEDQTILVYDLGGGTFDVSILELGDGVFEVKATAGDNHLGGDDFDQVIIDYLVNQFKQEHGIDLSKDKMALQRLKDAAEKAKKELSGVTQTQISLPFISANENGPLHLEMTLTRAKFEELSAHLVERTMGPVRQALQDAGLTPADIDKVILVGGSTRIPAVQEAIKRELGKEPHKGVNPDEVVAIGAAIQGGVIAGEVKDVVLLDVTPLSLGIETMGGVFTKLIERNTTIPTSKSQVFTTAADNQTTVDIHVLQGERPMAADNKSLGRFQLTGIPPAPRGVPQIEVTFDIDANGIVHVRAKDLGTNKEQSITIKSSSGLSEEEIQRMIKEAEENAEADRKRKEAAELRNEADQLIFMTDKTLKEVEGKVSADEIKKAQDAKEALKAALEKNDIDDIRKKKDALQEAVQQLSIKLYEQAAKQAQSAGSQGGAANHKDNVVDAEFEEVNDDK |
| 1444 | sp|P61441|DNAJ\_LEPIN | MSERSYYDILGVSKSANDEEIKSAYRKLAIKYHPDKNKGNKESEEKFKEATEAYEILRDPKKRQAYDQFGKAGVSGGAGGFGQGAYTDFSDIFGDFGDIFGDFFGGGRSSGFGGGRRSGPQRGSDLRYNLEVSLEDAALGREYKIEIPRLESCVDCNGSGASKGSSPATCPDCGGSGQIRRTQGFFSVATTCPTCRGKGTIISNPCRSCGGQGLQEKRRTINIKIPPGVETGSRLKVSGEGEAGPNGGPHGDLYVVTHIKKHELFERQGNDLILVRKISLAQAILGAEIEVPTIDGKKAKMKIPEGTESGQVFRLKGHGMPYLGAYGKGDQHVIVKIEIPKKITRRQRELIEEFARESGENIPGSKGKIFTK |
| 1445 | sp|Q8NUM9|LDH2\_STAAW | MKTFGKKVVLIGDGSVGSSYAFAMVTQGVADEFVIIDIAKDKVKADVQDLNHGTVHSPSPVDVKAGEYEDCKDADLVVITAGAPQKPGETRLQLVEKNTKIMKSIVKSVMDSGFDGYFLIAANPVDILTRFVKEYTGLPAERVIGSGTVLDSARLQYLISQELGVAPSSVDASIIGEHGDTELAVWSQANVAGISVYDTLKEQTGSEAKAEEIYVNTRDAAYEIIQAKGSTYYGIALALMRISKAILNNENNVLNVSIQLDGQYGGHKGVYLGVPTLVNQHGAVKIYEMPLSAEEQALFDKSVKTLEDTFDSIKYLLED |
| 1446 | sp|A9GIS9|LON3\_SORC5 | MFFKNDSDRGKNAPERGIVPLLPLRDIIVFPHMVSQLFVGRERSIAALDEAMNRGKEIFLAAQRNAKTNDPTPDDIFGVGSVGAIMQLLRLPDGTVKVLIEGKRRARIRRYVQSDAYFLIEYDEIVESSVASVEVEALMRSVQSTFEMYVKLNKKIQPEVLMAVQAIDEASRLADTIIANLPTIKLTDRQALLEMEEPQKRLERLIELMQAEIEILQVEKKIRSRVKKQMEKTQKEYYLNEQMQAIQKELGGGERDEFKNEIQEIEEALKTKRMSKEAAAKVKKELKKLKMMHPTSAEATVVRNYIDWILELPWYDKSEERYDLVEAERILDEDHYGLKKIKERILEYLAVQALTKKLKGPVLCFVGPPGVGKTSLAKSIARATGRKFVRLSLGGVRDEAEIRGHRRTYIGALPGKLIQSLKKVGTNNPVFLLDEVDKMSTDFRGDPAAALLEVLDPEQNHTFNDHYLDLDYDLSDVMFITTANTLSGIPVPLQDRMEVIQLSGYTEFEKLNIAVKYLVPRQRKECGLEDVSLDFTEGALRTIIHHYTKESGVRSLEREIASVCRKVARRVVSDGKEKPIEVVAKSIPKYLGVPKYRLGRREERDEVGLVNGLAVTNVGGDLLPAEATVVPGKGKLVITGLLEKGMEESGHAAMSYVRSRLDRLGLEADVYQKVDVHIHFPDFVRKDGPSAGVTMVTALVSSLMKVPVRRDLAMTGEITLRGRVMPIGGLKEKLLAAHRGGIATVILPKENRKDLRDVPRRVLKALRLVLVEHVDDVLREALILPDAYAIFGPPKGVLEYRDGELVTEAAPVKAPPAAAGEPTPAAPPGA |
| 1447 | sp|B5Y8Q8|LON\_COPPD | MSEKLPVIPLKNVVMFPGIVLPLLIGRPKSIKALEEAMKGTKQVILLAQKDENIDEPAPSDLYDVGVIGEVIQIFRAPDGTVRMVVEAKTRVKASVSDSGEFLEGNYEVLEEVEGDATRTEALVKATIARFEEYARLSGRIPIEVVAGIGGLDNPGKIADMVAANMFISYYEKQKVLELLSIPERLEHVLQLLLREIEVLKLSQEIEETVRERMEKNQREYILREQLKAIQEELGEKDERTIEIEQYKKRIEESGMPEEARKKAEEELDRLQRMPPYSAELAVIRTYLDWLVSLPWNARTEDEDDLKTVKQKLDKSHYGLDDAKERIVEFIATKKLSSNPKAPILCLVGPPGVGKTSLAKAIATALNRKLVRISLGGIRDEAEIRGHRRTYVGAMPGRIIQGIRSAGTKNPVFVLDEIDKLSSDFLGDPSAALLEALDPEQNYAFQDHYLEVPFDLSEVFFITTANNLYTIPPALLDRMEVIRVPGYTEEEKLHIAKDFILPKLYEQSGLNPEEVSFSDQAIIRIIREYTREAGVRNLERNLLSILRKLAVEKLEKGFSRVRITVKNVEDYLGVPKFRYGKALEKPEIGVVAGLAWTEFGGETMLIECQVVKGKGQLILTGSLGQTLKESAMAALTYVRSRAKQLGIDEEFYKKYDIHVHAPEGAIPKDGPSAGITIATAMISALKKEPVPNDLAMTGEITITGKVLPIGGVKEKVLAAHRIGLDRVILPKDNKINMEEIGDEVKKKLRFYFVDTMDQVVEIVFGKTS |
| 1448 | sp|P57549|LON\_BUCAI | MNSERSERITIPVLPLRDVVIYPHMVIPLFVGRQKSIKCIETSMSNDKKIMLIAQKEASKDEPTPKDLFDIGTISAILQMLKLPDGTVKVLIEGLQRAHIKNLTNNGEHFIAEVELISSSNLLDKNQEVLIRTTMNQFESYIKLNKKIPLEILNVLNNIKNSEKLADTIAAHMPLKLNDKQSVLEIRNINDRLEFLMAIMESEIDLLQVEKRIRHRVKKQMEKSQREYYLNEQIKAIQKELGDMDEIPDENKILKRKIKSSKMPKEAREKTELELQKLKMMSPMSAEATVVRSYIDWMIQVPWYLKTKIKKDLQQAKKILDIDHFGLETVKDRILEYLAVQSRKNKIKGPILCLIGPPGVGKTSLGKSIARSTGRKYVRIALGGIRDEAEIRGHRRTYIGSMPGKLIQKMAKAKVKNPLFLLDEIDKMSRDIRVDPASALLEVLDSEQNMNFNDHYLEVDYDLSDVMFVATSNSMNIPAPLLDRMEIIRLSGYTEDEKLNIAKRYLYPKQIERNGLEENEIKITDSAIISIIHYYTREAGVRSLEREISKICRKAVKNLILDKSLKHIEINSKNLKKFLGIKRFDYGKIHGTNQIGQVIGLAWTEVGGELLTIETTCVSGKGKLTYTGSLGEVMQESIQAALTVVRSQADRLGIKKDFHEKHDIHVHVPEGATPKDGPSAGAAMCTAIVSSLTNNPVKSNVAMTGEITLHGKILPIGGLKEKLLAAHRGGIKTVLIPYENKRNLEEIPKNIIEGLNIHPIKKIEEVLKLSLEKIPYV |
| 1449 | sp|A0LG61|LON2\_SYNFM | MASEGEGVLKKEGLPEKLRILPLRNMVLYPDLVLPLHVTRAGYRRLADEVYRENGLLAVVAQRNEEAEEASPADIYQVGTVGSIIKLLKQADGTYQIIVGASEKVRLRNISQAGDYLEAEVEAVPEDRSTSPEIEALALNLRMGFQKFVSLASLPLDLANFALNAERPMQLVYAVASHLALSVVERQSILEMPETKAALEHVTFYMTRQLEKLELAQRIQDRVKSVMDKRQRDYYLREQLQAIRKELGEGEDTSEEVHELAARLRDLEMPAEARGAAEKEIERLGRMSPSAPEYHVSRNYLDWLLEMPWSVSTEDRIDVRQAAVILDEDHFDLEKVKRRILEYLAVLQLKKDLKGPILCFVGPPGVGKTSLGQSIARTLGRKFLRISLGGVRDEAEIRGHRRTYVGALPGRIVQGLRRVGSNNPVFMLDEIDKIGMDFRGDPSSALLEVLDPEQNFSFSDHYLGVPFDLSRVMFIATGNLLDTVPAALKDRMEVIEIPGYTAEEKLEIARKFLVERETANHGLTSDHIRIGEDAILEIIRSYTREAGVRSLQRNLASVCRNTAKAIAEGASGPIHIDASGIPEILGPVQFLPETATRSWGCGIATGLAWTPSGGQLIFIETLRTHGNGKLLLTGQLGEVMKESATAALTFVRAHAADLEIEGEEFDRSDIHVHVPAGATPKDGPSAGAPMVVALASLMTGREVRKDVAMTGEITLRGDILPVGGIKEKVLAARRAGVKEIMIPHANMKDLADIPDHLRRDMTIHELQTISDVLQLALLPSPRQGGSSPRS |
| 1450 | sp|Q8W4Q4|MRF3\_ARATH | MEGFLTDQQREMMKVATQTADDLPPSQKPHSVLLEHLPKPSGGGKASGASNAVKHRRSHAGRSIRSKKDGGGGKGNWGKLIDTDGDYHIDPNDPNYDSGEEPFELVGATLSDPLDDYKKAAASIINEYFSTGDVDVAAADLIELGSSEYHPYFIKRLVSVAMDRHDKEKEMASVLLSALYADVINPNQIRDGFVLLLESADDFVVDIPDAVNVLALFLARAVVDDILPPAFLPRAAKALPITSKGYQVVQTAEKSYLSAAHHAELVERRWGGQTRTTVEEVKKKIADILNEYVETGETYEACRCVRELGVSFFHHEVVKRALVTALENHAAEAPVLKLLNEAASENLISSSQMVKGFSRLRESLDDLALDIPSARTKFGLIVPKAVSGGWLDASFGYPSGECGRQQNEDEKLKRFKEDIVTIIHEYFNSDDIPELIRSLEDLGAPEYNPIFLKKLITLALDRKNHEKEMASVLLSSLHIEMFTTEDVADGFVMLLESAEDTALDILDASNELALFLARAVIDDVLAPFNLEEISSKLRPNSSGTETVKMARSLIFARHAGERLLRCWGGGSGWAVEDAKDKISNLLEEYESSGLVSEACKCIHELGMPFFNHEVVKKALVMGMEKKKDKMMLDLLQESFSEGLITTNQMTKGFTRVKDGLEDLALDIPNAKEKFNDYVEYGKKNGWVSSSFLTSLTEDANVG |
| 1451 | sp|O08908|P85B\_MOUSE | MAGAEGFQYRAVYPFRRERPEDLELLPGDLLVVSRVALQALGVADGGERCPHNVGWMPGFNERTRQRGDFPGTYVEFLGPVALARPGPRPRGPRPLPARPLDGSSESGHILPDLAEQFSPPDPAPPILVKLVEAIEQAELDSECYSKPELPATRTDWSLSDLEQWDRTALYDAVKGFLLALPAAVVTPEAAAEAYRALREVAGPVGLVLEPPTLPLHQALTLRFLLQHLGRVARRAPSPDTAVHALASAFGPLLLRIPPSGGEGDGSEPVPDFPVLLLERLVQEHVEEQDAAPPALPPKPSKAKPAPTALANGGSPPSLQDAEWYWGDISREEVNERLRDTPDGTFLVRDASSKIQGEYTLTLRKGGNNKLIKVFHRDGHYGFSEPLTFCSVVELISHYRHESLAQYNAKLDTRLLYPVSKYQQDQVVKEDSIEAVGAQLKVYHQQYQDKSREYDQLYEEYTRTSQELQMKRTAIEAFNETIKIFEEQGQTQEKCSKEYLERFRREGNEKEMQRILLNSERLKSRIAEIHESRTKLEQDLRAQASDNREIDKRMNSLKPDLMQLRKIRDQYLVWLTQKGARQRKINEWLGIKNETEDQYSLMEDEDALPHHEERTWYVGKINRTQAEEMLSGKRDGTFLIRESSQRGCYACSVVVDGDTKHCVIYRTATGFGFAEPYNLYGSLKELVLHYQHASLVQHNDALTVTLAHPVRAPGPGPPSAAR |
| 1452 | sp|Q5R685|P85A\_PONAB | MSAEGYQYRALYDYKKEREEDIDLHLGDILTVNKGSLVALGFSDGQEARPEEIGWLNGYNETTGERGDFPGTYVEYIGRKKISPPTPKPRPPRPLPVAPGSSKTEADVEQQALTLPDLAEQLAPPDIAPPLLIKLVEAIEKKGLECSTLYRTQSSSNLAELRQLLDCDTASVDLEMIDVHVLADAFKRYLLDLPNPVIPAAVYSEMISLAQEVQSSEEYIQLLKKLIRSPSIPHQYWLTLQYLLKHFFKLSQTSSKNLLNARVLSEIFSPMLFRFSAASSDNTENLIKVIEILISTEWNERQPAPALPPKPPKPTTVANNGMNNNMSLQDAEWYWGDISREEVNEKLRDTADGTFLVRDASTKMHGDYTLTLRKGGNNKLIKIFHRDGKYGFSDPLTFNSVVELINHYRNESLAQYNPKLDVKLLYPVSKYQQDQVVKEDNIEAVGKKLHEYNTQFQEKSREYDRLYEEYTRTSQEIQMKRTAIEAFNETIKIFEEQCQTQERYSKEYIEKFKREGNEKEIQRIMHNYDKLKSRISEIIDSRRRLEEDLKKQAAEYREIDKRMNSIKPDLIQLRKTRDQYLMWLTQKGVRQKKLNEWLGNENTEDQYSLVEDDEDLPHHDEKTWNVGSSNRNKAENLLRGKRDGTFLVRESSKQGCYACSVVVDGEVKHCVINKTATGYGFAEPYNLYSSLKELVLHYQHTSLVQHNDSLNVTLAYPVYAQQRR |
| 1453 | sp|Q17833|OLD1\_CAEEL | MKGTLIFVVFYSSYGFAHCNTILRSSSLSRNFEDSLRRIPRSTDKDETGFEDSNVQEVIFILLYCLFVALAILICGLIIFYNSRKRELRANRSRGDEYLLEPTSADHKRRNSSNIVPPEPTPYPITSGESDLRQTPSRLSNVECPPELELAPINEKIMYLHYYAEVEINEEDLDISKGRPLGSGEFGIIRKGFLRSKNSKNEEKESRLEVAVKLPLNEYNQIQQELIYDELKVMCAVGKHPNILALVGGITFGERKMIVSEFVENGDLLSFLRDNRIYFTNDQWTLETEQDSLSLVDLLSFAFQIAKGMEYLIHVPCVHRDLALRNVLIKKNRIIRIADFGLARRHKNKDYYKTQSVDTPLPIHWMAPESIDKLLFTQKSDVWSYGVCLYELFSLGKSPYENVIKYDQRDFYWKYVLSYLNEGKRLAQPAHADAEIYNVMKLCWDLDMNSRTTFLDCIEFFEKELKTTSNEYFLDLTRKLRSETNNQLRLSNWLSDEKHCDS |
| 1454 | sp|Q5R9X6|P5CR1\_PONAB | MSVGFIGAGQLAFALAKGFTAAGVLAAHKIMASSPDMDLATVSALRKMGVKLTPHNKETVQHSDVLFLAVKPHIIPFILDEIGADIEDRHIVVSCAAGVTISSIEKKLSAFRPAPRVIRCMTNTPVVVREGATVYATGTHAQVEDGRLMEQLLSSVGFCTEVEEDLIDAVTGLSGSGPAYAFTALDALADGGVKMGLPRRLAVRLGAQALLGAAKMLLHSEQHPGQLKDNVSSPGGATIHALHVLESGGFRSLLINAVEASCIRTRELQSMADQEQVSPAAIKKTILDKVKLDSPAGTALSPSGHTKLLPRSLAPAGKD |
| 1455 | sp|P0AFV9|PSPD\_ECO57 | MNTRWQQAGQKVKPGFKLAGKLVLLTALRYGPAGVAGWAIKSVARRPLKMLLAVALEPLLSRAANKLAQRYKR |
| 1456 | sp|P0C080|RELB\_SHIFL | MGSINLRIDDELKARSYAALEKMGVTPSEALRLMLEYIADNERLPFKQTLLSDEDAELVEIVKERLRNPKPVRVTLDEL |
| 1457 | sp|Q9LVD0|RID2\_ARATH | MSNRPELLAPPEIFYDDTEARKYTSSSRIVEIQAKLSERALELLALPEDGVPRFLLDIGCGSGLSGETLSEDGHHWIGLDISASMLHVAVEREVEGDLLLGDMGQGLGLRSGVIDGAISISAVQWLCNADKSSHEPRLRLKAFFGSLYRCLSRGARAVFQVYPENIAQRELILRQALQAGFGGGLVVDYPHSTKKRKEFLVLTCGTVQTSIQTSKNEYDESCSEDDNSDDEESEEVGVSDRNRPRKRQRTNTKVKGREWVLRKKEQSRRKGKNVPADSKFTSRKRRTRF |
| 1458 | sp|P82147|L2EFL\_DROME | MSVVPLMFRDWWDELDFPMRTSRLLDQHFGQGLKRDDLMSSVWNSRPTVLRSGYLRPWHTNSLQKQESGSTLNIDSEKFEVILDVQQFSPSEITVKVADKFVIVEGKHEEKQDEHGYVSRQFSRRYQLPSDVNPDTVTSSLSSDGLLTIKAPMKALPPPQTERLVQITQTGPSSKEDNAKKVETSTA |
| 1459 | sp|Q72UP9|LON\_LEPIC | MEGGPLEPLEDLSGIEENSIIPLDSILPPELFLIPIKSRPVFPGIITPLIVPSGKFAKAVEETVKGNSFLGLVLLKDEENEKETSENIYQYGVVAKILKKVNLPDNAVNILVNTIRRFKIESFVNKDPLVARVSYPEEEPGAPKNTTKAMMRTLLVMTRELAQNNPLFTEEMKLTMLNVNEPGKMADFVCSILNLEKEEYQSVIESNILKTRIEKVLLFLKKEIELVSIQREISDQIQDKIDKQQRQFFLREQLKAIQNELGIKDDKFEKKYEKFLERLKNLNADPEVIEEVTRELDKFSYADPNTGDYNVIRNYLDILESLPWEPAPVREIDLEKAKKTLDKDHYKLEDVKDRILEFLAVKKLKNDEKGTILLLVGPPGVGKTSIARSIAEAMGRKFFRFSVGGMRDEAEIKGHRRTYIGSMPGKIISALRITKERDCVILLDEIDKLSIGIQGDPASALLEVLDPEQNKNFRDHYLDLPFDISNVFFIATANTLDSISRILLDRMEIINLSGYITDEKVQIFQKYLWKKVLYKNGVTPYGIEFDKKAIVALIDSYSRESGVRGLEKVTDKLVRKIAIKIVRKESFPKIIQEKDLETFLGVPKFTDERMVRASVPGTALGLAWTSVGGATLLIEALFVKGKGGILLTGMLGKTMEESSNIALSYIKNLLYKEELFNNRMIHLHVPDGATPKDGPSAGITMASAILSLALNTKVKSGFGMTGELTLTGEVLAIGGLREKIVAAKRVGIHKIIYPKDNLQHLQEIPDYVKKGMYFFPVSRYEEVALLLFDEKVISKINPSFRENLKSIVNPTRKLSPKKKTTQKQKLSLSKQKGNNQKKK |
| 1460 | sp|Q6MTF4|LON\_MYCMS | MLQYLKKIKGVSFMKTIKLPVVVTRGIFILPSTSKTIEFGRVKSKNALDASADLYNNQIVVVSQESPLEEEPNLEHLFYLGTVADLSVKKVWKDGTISVELNYNQKIKIDEFVEEDNIIYAIGSVFEDKLPKTDAQKTKIKEALEELQEKHSFNTSELLLVFNENDFNKLNSLIYQIIDKMPLVSLNTKLLLIQSTSILEKLELLKELIINRPKSTIKLNNNLNNNSTVDSEINKKLKDKMDKQQKEYYLREKMRIIKEELDDENSDASQLDKYKKRLEEEPFPESVKEKILSSIKRIETMQPGSAEVNVERNYVDWMMSIPWWEQSEDIDDLKYAQEILEKHHFGLKKVKERIIEYLAVKQKTKSLKGPIITFVGPPGVGKTSLARSIAEALGKKFVKVSLGGVKDESEIRGHRKTYVGSMPGRIIQALKRAKVKNPLFLLDEIDKMASDNRGDPASAMLEVLDPEQNKEFSDHYIEEPYDLSTVMFIATANYIENIPEALYDRMEIINLSSYTEIEKMHIAKDYLTKKILEEDQLTEDELRFTDEAYDEIIKYYTREAGVRQLERHLATIARKFIVKLLNGEITNLVVTREVVVQYLGKHIFEHTSKEEESQVGVVTGLAYTQFGGDILPIEVSTYNGKGNLTLTGKLGEVMKESATIALTYVKANHEKFGISKDKFDDIDIHIHVPEGAVPKDGPSAGITLTTALISALSKQPVSKDFGMTGEITLRGNVLPIGGLREKSISAARSGLKHILIPSKNVKDIEDVPQEVQDVLKITPVSKYEDVYEIIFKNNNQ |
| 1461 | sp|P0ACV2|LPXP\_ECOLI | MFPQCKFSREFLHPRYWLTWFGLGVLWLWVQLPYPVLCFLGTRIGAMARPFLKRRESIARKNLELCFPQHSAEEREKMIAENFRSLGMALVETGMAWFWPDSRVRKWFDVEGLDNLKRAQMQNRGVMVVGVHFMSLELGGRVMGLCQPMMATYRPHNNQLMEWVQTRGRMRSNKAMIGRNNLRGIVGALKKGEAVWFAPDQDYGRKGSSFAPFFAVENVATTNGTYVLSRLSGAAMLTVTMVRKADYSGYRLFITPEMEGYPTDENQAAAYMNKIIEKEIMRAPEQYLWIHRRFKTRPVGESSLYI |
| 1462 | sp|A9B3R2|LON2\_HERA2 | MADDRQLVDEISAATTLELPVLPLINTVLFPTMVTPLFVARELSMAAIEAAMSADRQIVAVAQRAIEIEEHDTSQLYQVGVIAHIERVLKLPDGTTSVLVQGQQRVQIVDWLATEPYINAQVQIIEPDHESSLAIEAMMRGVLASYEKVVKLSRTMPDDAYVAALNLEDASALADLIASTLPLDIVRRQQLLELFEVEERLRRLSVVLSQEIDVLELEHHIQNQVQKEVDKSQRDFFLREQLKAIQTELGQEDPLTRELNELHDRIVAANLPAKAQAKALEELGRLEMMPPAAPEYSVIRTYLDWLLELPWSKTSADVADLEVAAKVLENNHYGLKKVKERILEFIAVRMLAGDSTKSPILCFVGPPGVGKTSLGRSVAEALGREFVRLSLGGVHDEAEIRGHRRTYIGAMPGRIIQTMKDAGTINPVFMLDEIDKLGNDFRGDPAAALLEVLDPEQNNTFADHYLDLPYDLSKIMFITTANMLDPIDEPLLDRMEIVELPGYIEEEKVQIARKFLIPKQIEANGLKQHPITISDEALRQIIRTYTWEAGVRNLEREIGGICRKIARRVAEKKRYPRRITPTMLTDFLGQPPFDYSRANDRDEIGVATGMVWSSNGGDVVAIETAIVDGKGTTTLTGQLGDVMQESAQAALSYARASSRRLGIDGKRFEKIDIHIHVPEGGVPKDGPSAGITLACSVISALTHRPLRRDVAMTGEITLRGRVLPIGGLRDKILGAYRAGITTMLIPKKNLRDLEEVPNNVRRQITVVAVEHMDEVLPIAFVSNPLERGSQHTSDGDQTSVVLPTITQPQLGSVEL |
| 1463 | sp|P9WGL0|MPRB\_MYCTO | MWWFRRRDRAPLRATSSLSLRWRVMLLAMSMVAMVVVLMSFAVYAVISAALYSDIDNQLQSRAQLLIASGSLAADPGKAIEGTAYSDVNAMLVNPGQSIYTAQQPGQTLPVGAAEKAVIRGELFMSRRTTADQRVLAIRLTNGSSLLISKSLKPTEAVMNKLRWVLLIVGGIGVAVAAVAGGMVTRAGLRPVGRLTEAAERVARTDDLRPIPVFGSDELARLTEAFNLMLRALAESRERQARLVTDAGHELRTPLTSLRTNVELLMASMAPGAPRLPKQEMVDLRADVLAQIEELSTLVGDLVDLSRGDAGEVVHEPVDMADVVDRSLERVRRRRNDILFDVEVIGWQVYGDTAGLSRMALNLMDNAAKWSPPGGHVGVRLSQLDASHAELVVSDRGPGIPVQERRLVFERFYRSASARALPGSGLGLAIVKQVVLNHGGLLRIEDTDPGGQPPGTSIYVLLPGRRMPIPQLPGATAGARSTDIENSRGSANVISVESQSTRAT |
| 1464 | sp|Q8CE90|MP2K7\_MOUSE | MAASSLEQKLSRLEAKLKQENREARRRIDLNLDISPQRPRPIIVITLSPAPAPSQRAALQLPLANDGGSRSPSSESSPQHPTPPTRPRHMLGLPSTLFTPRSMESIEIDQKLQEIMKQTGYLTIGGQRYQAEINDLENLGEMGSGTCGQVWKMRFRKTGHIIAVKQMRRSGNKEENKRILMDLDVVLKSHDCPYIVQCFGTFITNTDVFIAMELMGTCAEKLKKRMQGPIPERILGKMTVAIVKALYYLKEKHGVIHRDVKPSNILLDERGQIKLCDFGISGRLVDSKAKTRSAGCAAYMAPERIDPPDPTKPDYDIRADVWSLGISLVELATGQFPYKNCKTDFEVLTKVLQEEPPLLPGHMGFSGDFQSFVKDCLTKDHRKRPKYNKLLEHSFIKHYEILEVDVASWFKDVMAKTESPRTSGVLSQHHLPFFSTSVTWGAWPLAAQTPFQSGVIRCRGRVPSPRRATGGSGGQPCVCAGGPGPSFTEMGPSPSPMLSNTFFTPDPGACPGASTWGLPRRRLCQLLTTSTPGCC |
| 1465 | sp|Q9SB64|NBR1\_ARATH | MESTANALVVKVSYGGVLRRFRVPVKANGQLDLEMAGLKEKIAALFNLSADAELSLTYSDEDGDVVALVDDNDLFDVTNQRLKFLKINVNAGVSTNSAAPESSGSSTPAGMPNPVSKIQKGINDVLMAVPNPMRDTISKVYMDLASKASTSSPVVGEMLDCISKLGQLSIPQESSPCSPVTKPGSSGASLSRDVPSAGGKKDISERTQTGRKPVNLNEPTGAHSKTSGHVPNSSGLGANFNECPFSGSTMNYSCPNPVNLNKHPRRVCHSKKSTNGDYWTSLGVFHKGIRCDGCGVLPITGPRFKSKVKEDYDLCTICYSVMGNEGDYTRMDKPVSVQHLHPFRGPFTQFPNPWLSHPVPRATNGGAPLRCTRPKLDSRFVLDVNVIDGTVVAPSAPFTKIWKMRNSGSLVWPQGTQIVWIGGDRFCNSLSVDLQIPKEGVPIYSELDVKVDFVAPELPGRYISYWRMATSDGAKFGQRVWVLIHVDASLKNSVVNEFHGLNLNASPSLDENFPSEFLGIMNYESAQPGSSSVNPGTVKGTDLEGEVGETQAVEKENLLVGEAHPAIPHGHSPSSSSSSFNMVDFPSMPAVEVLSGGSSSTTKDVPVPLQEDIEKNDVEITMLKELEEMGFKEIDLNKEILRDNEYNLEQSVDALCGVSEWDPILEELQEMGFCDDVTNKRLLKKNNGSIKGVVMDLLTGEKEA |
| 1466 | sp|Q9M0J5|MYB41\_ARATH | MGRSPCCDKNGVKKGPWTAEEDQKLIDYIRFHGPGNWRTLPKNAGLHRCGKSCRLRWTNYLRPDIKRGRFSFEEEETIIQLHSVMGNKWSAIAARLPGRTDNEIKNHWNTHIRKRLVRSGIDPVTHSPRLDLLDLSSLLSALFNQPNFSAVATHASSLLNPDVLRLASLLLPLQNPNPVYPSNLDQNLQTPNTSSESSQPQAETSTVPTNYETSSLEPMNARLDDVGLADVLPPLSESFDLDSLMSTPMSSPRQNSIEAETNSSTFFDFGIPEDFILDDFMF |
| 1467 | sp|Q9LRR7|NCED3\_ARATH | MASFTATAAVSGRWLGGNHTQPPLSSSQSSDLSYCSSLPMASRVTRKLNVSSALHTPPALHFPKQSSNSPAIVVKPKAKESNTKQMNLFQRAAAAALDAAEGFLVSHEKLHPLPKTADPSVQIAGNFAPVNEQPVRRNLPVVGKLPDSIKGVYVRNGANPLHEPVTGHHFFDGDGMVHAVKFEHGSASYACRFTQTNRFVQERQLGRPVFPKAIGELHGHTGIARLMLFYARAAAGIVDPAHGTGVANAGLVYFNGRLLAMSEDDLPYQVQITPNGDLKTVGRFDFDGQLESTMIAHPKVDPESGELFALSYDVVSKPYLKYFRFSPDGTKSPDVEIQLDQPTMMHDFAITENFVVVPDQQVVFKLPEMIRGGSPVVYDKNKVARFGILDKYAEDSSNIKWIDAPDCFCFHLWNAWEEPETDEVVVIGSCMTPPDSIFNESDENLKSVLSEIRLNLKTGESTRRPIISNEDQQVNLEAGMVNRNMLGRKTKFAYLALAEPWPKVSGFAKVDLTTGEVKKHLYGDNRYGGEPLFLPGEGGEEDEGYILCFVHDEKTWKSELQIVNAVSLEVEATVKLPSRVPYGFHGTFIGADDLAKQVV |
| 1468 | sp|Q24JK1|MYB96\_ARATH | MGRPPCCEKIGVKKGPWTPEEDIILVSYIQEHGPGNWRSVPTHTGLRRCSKSCRLRWTNYLRPGIKRGNFTEHEEKTIVHLQALLGNRWAAIASYLPERTDNDIKNYWNTHLKKKLKKINESGEEDNDGVSSSNTSSQKNHQSTNKGQWERRLQTDINMAKQALCEALSLDKPSSTLSSSSSLPTPVITQQNIRNFSSALLDRCYDPSSSSSSTTTTTTSNTTNPYPSGVYASSAENIARLLQDFMKDTPKALTLSSSSPVSETGPLTAAVSEEGGEGFEQSFFSFNSMDETQNLTQETSFFHDQVIKPEITMDQDHGLISQGSLSLFEKWLFDEQSHEMVGMALAGQEGMF |
| 1469 | sp|Q7XBH4|MYB4\_ORYSJ | MGRAPCCEKMGLKKGPWTPEEDKVLVAHIQRHGHGNWRALPKQAGLLRCGKSCRLRWINYLRPDIKRGNFSKEEEDTIIHLHELLGNRWSAIAARLPGRTDNEIKNVWHTHLKKRLDAPAQGGHVAASGGKKHKKPKSAKKPAAAAAAPPASPERSASSSVTESSMASSVAEEHGNAGISSASASVCAKEESSFTSASEEFQIDDSFWSETLSMPLDGYDVSMEPGDAFVAPPSADDMDYWLGVFMESGEAQDLPQI |
| 1470 | sp|Q5MBR5|NCED3\_ORYSJ | MATITTPGYAHIQRQHGRCSTTAGRRGASNSVRFSARAVSSVPHAAAASSAPAFLPVPFVPGADAPSPSGKSAIGVPKAPRKGEEGKRLNFFQRAAAMALDAFEEGFVANVLERPHGLPSTADPAVQIAGNFAPVGETPPARALPVSGRIPPFINGVYARNGANPHFDPVAGHHLFDGDGMVHAVRIRNGAAESYACRFTETARLRQERAMGRPMFPKAIGELHGHSGIARLALFYARAACGLLDPSHGTGVANAGLIYFNGRLLAMSEDDLPYQVRVTADGDLETVGRYDFDGQLGCAMIAHPKLDPATGELHALSYDVIKKPYLKYFYFAPDGTKSADVEIPLDQPTMIHDFAITENYVVVPDHQVVFKLQEMLRGGSPVVLDKEKTSRFGVLPKHAADASEMVWVDVPDCFCFHLWNAWEEADTDEVVVIGSCMTPADSIFNESDDRLESVLTEIRLNTRTGESTRRAILPPSSQVNLEVGMVNRNLLGRKTRYAYLAVAEPWPKVSGFAKVDLATGELTKFEYGEGRFGGEPCFVPMDAAAATPRGEDDGYILSFVHDERAGTSELLVVNAADMRLEATVQLPSRVPYGFHGTFITGDELTTQA |
| 1471 | sp|Q9C811|NU160\_ARATH | MEENRRNPSAGMEVPVAGGGNVVKWIEISVPSPSVSSSSIGANSSEDNECVQLPLSEDYASSSVIGEPSISFVWRINKTSPNALELLQLSAKSGFPITGLRFVFAQTLSPFAFVYADEGGDSGRLVYFLYSLTPSGVVYVLKLSNTLAYKSGSVFPLDHLIHLDVRPYLNESRVTSVAASPGFIFLGRSDGCVSCFQPIVYFQKSSGFHQELRDDTGFGRLGTVVAAVQDLFISEVHGRNYLCVLHADGALRVWDILTYSRVLCQSIAAKNLEGVMCVRLWLGKADYDSGIIPLAVLYRKSMNDSMDVITVYGLHFSSAEGIALSLDSGLQNIPLEEGELRDVRFTSDKIWTLKANELTSYMLCQKSSTMEAQSYTLQEDYISEQLFLSSRSSSHDLLLTTHSLFSSAKDQIMGFISSIFLRRLLCPGIFHNVALRLTLLDHNKNWTDSEFQSLSLDELTSEILLLVEHEVTAETSISVFHWWKNFCTSYLHHWCSNNEPRTLLVQSDVIGLVRNNSVSLFFRLENAEHSLGGSSSEHSNLTSLDLGVSHSDHEILAEVLRCTSKISKQWGGAPYAMYYESITGRPIISSDEIVPRLVNILESGYSTTIGQRTWSDLGADRAWEKELEAHKNLRTFSIDMLLSLSALCQRAGSWEKVFTIMEHYLQYLVPKKSMQKNDGEALSDICSSILVQATSQFVKVMFESAFDIFLLISYLLNIAGQVNMSQQDICKLRLELLPMIQDIVSEWLIILFFVTTPAESTSMEDFSLKLSSLQIDSSIDKRSWNAMLGKCGFSLAFILLFSDRSCIVDGRFNLRYLPSSQIITSLVQNFISWIRYSKTGDDSSSLLRRSTELSLRLIRNGQSDAVERILVVVEASLRGEKTFGCSQDTSGDWCLLQHLRGCCLLDQVQRGASGILRERKIIDAIRCFFRASSGEGSWKALHSLSKEAGFSPATTGPSILDGSTSSAAWKLHYYEWAMQIFERYNISEGACQFAYAALEQVDDAYNFIEMTEEFDPTKAATYTRGRLWANVFKFTLDLNLLNDAYCAIISNPDEEIKRICLRRFIIVLFECGKTKILSDGHLPFIGLTEKITQELFWKAGRSDIMMKPNPYKLLYAYEMRRHNWRMAASYMYQFSARLRSEGACKDYKHMSLVLQERLNGLSAAMNALALVHPGYAWIDPVPEETTRYPVKKARRAEEEQLRSNDQPKGEKSCIDIEKLQNEFVFTTAEYMLSLKNFGWTYSGLEKPPSDLVDLLVQANLYDMAFTVVLKFWRGSALKRELEKIFENMAIKCCPAKGTLWSSPNLMLTSNDEEVTHSPDRSPADQGSKLAGDWEILEVYLKRYIDIHARLPVSVASTLLQADSCIELPLWLIQMFKDGQKEKALGMAGQEASPASLFQLYVDYGRLTEATNLLLEYMESFASSKPAEVLKRKKVSGVWFPYTTVERLWWELEKTMNSGRMVEQCHKLKEQLHHALLNHLKLLKVDSNDAVSSATG |
| 1472 | sp|A0A0H3NGY1|OMPR\_SALTS | MQENYKILVVDDDMRLRALLERYLTEQGFQVRSVANAEQMDRLLTRESFHLMVLDLMLPGEDGLSICRRLRSQSNPMPIIMVTAKGEEVDRIVGLEIGADDYIPKPFNPRELLARIRAVLRRQANELPGAPSQEEAVIAFGKFKLNLGTREMFREDEPMPLTSGEFAVLKALVSHPREPLSRDKLMNLARGREYSAMERSIDVQISRLRRMVEEDPAHPRYIQTVWGLGYVFVPDGSKA |
| 1473 | sp|Q9FNA2|PAO1\_ARATH | MSTASVIIIGAGISGISAAKVLVENGVEDVLILEATDRIGGRIHKQNFGDVPVELGAGWIAGVGGKESNPVWELASRFNLRTCFSDYTNARFNIYDRSGKIFPTGIASDSYKKAVDSAILKLKSLEAQCSGQVAEEAPSSPKTPIELAIDFILHDFEMAEVEPISTYVDFGEREFLVADERGYECLLYKMAEEFLVTSHGNILDYRLKLNQVVREVQQSRNGVVVKTEDGSVYEANYVIVSASIGVLQSDLLSFQPLLPRWKTEAIQKCDVMVYTKIFLKFPQCFWPCGPGQEFFIYAHEQRGYFTFWQHMENAYPGSNILVVTLTNEQSKRVEAQSDQETMKEAMSVLRDMFGATIPYATDILVPRWWNNRFQRGSYSNYPMISDNQLLQNIKAPVGRIFFTGEHTSEKFSGYVHGGYLAGIDTSKSLLEEMKQSLLLQPLLAFTESLTLTHQKPNNSQIYTNVKFISGTS |
| 1474 | sp|P02932|PHOE\_ECOLI | MKKSTLALVVMGIVASASVQAAEIYNKDGNKLDVYGKVKAMHYMSDNASKDGDQSYIRFGFKGETQINDQLTGYGRWEAEFAGNKAESDTAQQKTRLAFAGLKYKDLGSFDYGRNLGALYDVEAWTDMFPEFGGDSSAQTDNFMTKRASGLATYRNTDFFGVIDGLNLTLQYQGKNENRDVKKQNGDGFGTSLTYDFGGSDFAISGAYTNSDRTNEQNLQSRGTGKRAEAWATGLKYDANNIYLATFYSETRKMTPITGGFANKTQNFEAVAQYQFDFGLRPSLGYVLSKGKDIEGIGDEDLVNYIDVGATYYFNKNMSAFVDYKINQLDSDNKLNINNDDIVAVGMTYQF |
| 1475 | sp|Q11004|PPID\_SCHPO | MSTYAYFKISIDGKIQPTIYFELFDNVVPKTVKNFASLCNGFEKDGRCLTYKGSRFHRVIKNFMLQGGDFTRGNGTGGESIYGEKFEDENFELKHDKPFLLSMANAGPNTNGSQFFITTVPTPHLDGKHVVFGKVIQGKSTVRTIENLETKNDDPVVPVVIEECGTCTKDQIEAPKPDVTGDSLEEFPDDYEGDKSETAIFKIASDLKGIANKQFAQQNLDTAVAKWQKALRYLMEYPVPNDDSKESPDFWKEYNALRYSIYANLALVALKQNKPQEAIRNANIVIEASNSTELEKQKAYYRLGCAQGLLKNFEESEKALAKAGNDPAISKKLAEIRQKKKDYKKRQQKAYAKMFQ |
| 1476 | sp|P0A5Y3|PSTS3\_MYCBO | MKLNRFGAAVGVLAAGALVLSACGNDDNVTGGGATTGQASAKVDCGGKKTLKASGSTAQANAMTRFVNVFEQACPGQTLNYTANGSGAGISEFNGNQTDFGGSDVPLSKDEAAAAQRRCGSPAWNLPVVFGPIAVTYNLNSVSSLNLDGPTLAKIFNGSITQWNNPAIQALNRDFTLPGERIHVVFRSDESGTTDNFQRYLQAASNGAWGKGAGKSFQGGVGEGARGNDGTSAAAKNTPGSITYNEWSFAQAQHLTMANIVTSAGGDPVAITIDSVGQTIAGATISGVGNDLVLDTDSFYRPKRPGSYPIVLATYEIVCSKYPDSQVGTAVKAFLQSTIGAGQSGLGDNGYIPIPDEFKSRLSTAVNAIA |
| 1477 | sp|Q9SNB6|RDUF1\_ARATH | MMPNSRSATITPTTESTTTTTTTTTTLTTSYWCYSCTRFISVWEDQDANAGVLCPYCNGGFIEEIEDSSNSTVAAIPASTPEVRSVEETHRSIIRRRRSNRRTSFNPVIVLHGGGGGGAGERVENEEGDGATRERRAYEFYYDDGSGSGLRPLPDSVSEILMGSGFERLLEQLSQIEASGNGIGRSGNPPASKSAIESLPRVEISDCHTKAEANCAVCTEVFEAGIEGREMPCKHIFHGDCIVPWLSIRNSCPVCRFELPSDPIQRSNEEEHAVGMTIWRLPGGGFAVGRFNAGVREGERILPVVLTEMDGGGLGSNEGPRRISWVRAHETPEMSRNGGRSGNGGRLRRAVRGMVSFMRRVRPSRGSSNSNVIDLDSDGETRVMNRSTSLIRRFF |
| 1478 | sp|P31427|AMPL\_SOLTU | MATLRVSSLLASSPSSLHCNPSVFTKCQSSPRWAFSFSVTPLCSRRSKRIVHCIAGDTLGLTRPNESDAPKISIGAKDTDVVQWQGDLLAIGATENDLARDDNSKFKNPLLQRLDSKLNGLLSAASSEEDFSGKSGQSINLRLPGGRITLVGLGSSASSPTSYHSLGEAAAAAAKSAQARNIAVSLASTDGLSAESKINSASAIATGVMLGIFEDNRFRSESKTPALESLDILGLGTGPEIESKIKYAEHVCAGVILGRELVNAPANIVTPGALAEEAKKIASTYSDVITVNILDAEQCKELKMGAYLGVAAAATENPPYFIHLCFKTNSRERKTKIALVGKGLTFDSGGYNLKTGAGSKIELMKNDMGGAAAVLGAAKALGEIKPRGVEVHFIVAACENMISGAGMRPGDIVTASNGKTIEVNNTDAEGRLTLADALIYACNQGVEKIIDLATLTGAIVTALGPSVAGAFTPSDGLAREVVVAAEASGEKLWRMPMEESYWESMKSGVADMINTGPRDGGAITGALFLKQFVDEKVQWLHLDIAGPVWSDEKKNATGYGVSTLVEWVLRNSL |
| 1479 | sp|Q9UT09|AROG\_SCHPO | MSPVFLPSGETYDQEHLDDNRVLGYNPLVPAALVQQEIPVSETSRKVITDSRKEIQAILNKQDDRIIVVVGPCSIHDPKLAMDYAKLLKPKADELQDALCVVMRCYLEKPRTTIGWKGLVNDPNLDGSFAINKGIRMARQMYCDVTNFGIPLASEMLDNISPQFFADLLSFGAIGARTTESQLHRELASALSFPVGFKNGTDGTVGVAIDAIGATAHPHTMLGVTKQGLAAITMTRGNKDTFIILRGGKKGPNYDAEHVAAVRKDLEKANLPPRIMIDCSHGNSSKNHLNQPKVSKSIAEQIRNGDSSIVGVMIESHINEGRQDAPIRPGVKDTLKYGVSITDACVSWEQTAPMLDDLAEAVRARRQNQKSN |
| 1480 | sp|Q9RR45|GBUB\_LISM4 | MPNIPTIPLASWIDKLVDGLTQFEGFFNVITNIIGGIVDAFQWVFDLVPPWLFIILLVFGTFWVNRKGKKWGLIIFEVVGLLLIWNLDFWRDMTQTLTLVLTSSLIALVIGVPLGIWMAKSNIVESIFKPVLDFMQTMPAFVYLIPAVAFFGIGMVPGVVASVIFAMPPTVRMTNLGIRQVSTELVEAADSFGSTPWQKLWKVQLPMAKSTMMAGINQSIMLALSMVVIASMIGAMGLGTRVYFAVGRNDAGGGFVAGIAIVIVAIILDRLTQAFNKKAKSE |
| 1481 | sp|A4SQ26|GRPE\_AERS4 | MNHEEQKVETMEQVEAQPVEPTDVDSEVTAEQARIAELEAQLEAAQLASNEERERAIRAVAEMENLRRRAAQDVEKAHKFALEKFAAELLPVLDNLERAIELADKESEELKPMIEGVELTLKSMQSGVAKFGLNPLDPLNQPFDPNAHQAMSMIENGELAPNTVIAVMQKGYELNGRVIRPAMVMVSKAPA |
| 1482 | sp|Q63R45|GRPE\_BURPS | MENTQENPTDQTTEETGREAQAAEPAAQAAENAAPAAEAALAEAQAKIAELQESFLRAKAETENVRRRAQDDVAKAHKFAIEGFAENLLPVLDSLEAAVGDTSGDLAKVREGVELTLRQLTSALEKGRVAALNPVGEKFDPHLHQAISMVPADQEPNTVVAVLQKGYTIADRVLRPALVTVAQPK |
| 1483 | sp|Q5WHG2|GRPE\_BACSK | MAEEKNEELQTEETEQTKEDGHGDSAEQEETENNSGTEVEEQEEPEVHPLEIELNELKDRLARVRADYENFRRRTKEEKEAQAKYRAQGFIEKLLPALDNFERALLVEPKHEEAKQLLQGMEMVYRQVEEALKQEGVEPIPTEGELFDPHLHQAVMQVSEEGYEPNQIVEELQKGYKLKDRVIRHSMVKVNQ |
| 1484 | sp|Q89AS0|GRPE2\_BUCBP | MNDIDKHKKETQTESKNDLNNTTITQNNVSDDCQNQDKINSLKQKILEIKKHISEVKLREQAEIENINKNTKNKIKIIIDTQLENFFRNLIPIIDSLKNIRKDINKYNNIKDNNMIQGIPLILKSLLTVTEKFGLKINNKKGKLFDPKLHTTIPNENCKNINEYYVSEIIQDGYTFHEKIIRKAIVKLSKDKKT |
| 1485 | sp|Q81LS1|GRPE\_BACAN | MEERNEQVVEEVKEAQVEEAVTPENSEETVEEKSEAALLQEKVDELQAKLTETEGRTLRLQADFENYKRRVQMDKQAAEKYRAQSLVSDILPALDNFERAMQVEATDEQTKSLLQGMEMVHRQLLEALNKEGVEVIEAVGKQFDPNEHQAIMQVEDSEFESNAVVEEFQKGYKLKDRVIRPSMVKVNQ |
| 1486 | sp|Q9LSV0|GLYR1\_ARATH | MEVGFLGLGIMGKAMSMNLLKNGFKVTVWNRTLSKCDELVEHGASVCESPAEVIKKCKYTIAMLSDPCAALSVVFDKGGVLEQICEGKGYIDMSTVDAETSLKINEAITGKGGRFVEGPVSGSKKPAEDGQLIILAAGDKALFEESIPAFDVLGKRSFYLGQVGNGAKMKLIVNMIMGSMMNAFSEGLVLADKSGLSSDTLLDILDLGAMTNPMFKGKGPSMNKSSYPPAFPLKHQQKDMRLALALGDENAVSMPVAAAANEAFKKARSLGLGDLDFSAVIEAVKFSRE |
| 1487 | sp|Q93379|GSHR\_CAEEL | MLRFRCILSTSRSIMSGVKEFDYLVIGGGSGGIASARRAREFGVSVGLIESGRLGGTCVNVGCVPKKVMYNCSLHAEFIRDHADYGFDVTLNKFDWKVIKKSRDEYIKRLNGLYESGLKGSSVEYIRGRATFAEDGTVEVNGAKYRGKNTLIAVGGKPTIPNIKGAEHGIDSDGFFDLEDLPSRTVVVGAGYIAVEIAGVLANLGSDTHLLIRYDKVLRTFDKMLSDELTADMDEETNPLHLHKNTQVTEVIKGDDGLLTIKTTTGVIEKVQTLIWAIGRDPLTKELNLERVGVKTDKSGHIIVDEYQNTSAPGILSVGDDTGKFLLTPVAIAAGRRLSHRLFNGETDNKLTYENIATVVFSHPLIGTVGLTEAEAVEKYGKDEVTLYKSRFNPMLFAVTKHKEKAAMKLVCVGKDEKVVGVHVFGVGSDEMLQGFAVAVTMGATKKQFDQTVAIHPTSAEELVTMRGGVKPE |
| 1488 | sp|Q2JH51|GRPE\_SYNJB | MAPEDTYPELQEEEIDVEAELEKLILEDSEAEAGTSSGETAAEPSPDPGEALKQLQHELEVVRQQLKEKEDAYLRLYADFENYRRRTQREKEEFSQKERQKFVLEILPVVDSFERAQQQLKLETDRERELHNSYQSVYRLLVECLKKMGVSRMKSVGQPFDPNLHEAIARQPSPDYPEDVVAVEYQPGYKLGDLVIRHAMVAVSAGSPSSEPSPPAQATIEAGPENTPASPQNPQPS |
| 1489 | sp|C1C5N6|GRPE\_STRP7 | MAQDIKNEEVEEVQEEEVVETAEETTPEKSELDLANERADEFENKYLRAHAEMQNIQRRANEERQNLQRYRSQDLAKAILPSLDNLERALAVEGLTDDVKKGLGMVQESLIHALKEEGIEEIAADGEFDHNYHMAIQTLPADDEHPVDTIAQVFQKGYKLHDRILRPAMVVVYN |
| 1490 | sp|Q8D392|GRPE\_WIGBR | MKEKNSNKINEDKLNKKSEVKNKKEEEIINNKKQTTEKKINLNKNNISDEIIPEKINFNDQKNIIENLKKNLSKEKKSKHDLILRNQAEMENLMKRTQANIEKSYKFALEKFSIALLPIIDNLERTKNLLEKENEKNKNINPIEEGINLTLKEFIKVIHSFGIKEIDKKNIPFDPKIHEAMTVIDDKNKKTNQVVEIMQKGYILNGRLLRPAMVVVSK |
| 1491 | sp|B2V8C9|GRPE\_SULSY | MFVKQKSGGKKLEEKNNQENIENQEQNQEEVREEKPLTEQEKDELIKKLQEEVETLKQKLQKTEEAAKRLSALYQSIQKDFEDYKIRAIKEREQIKEESIEKFAKAFLDVVDNFEKALESFKVSNDINAIMQGIRMTHYQIMNLLQSYGIEKIEAAGEFNPMEHEALETLKTKEYRNNQIVKVLQAGYKYKGKVIRPAKVVVAISEEEEIT |
| 1492 | sp|P43732|GRPE\_HAEIN | MSEQEQKVEIPEVEKQEEVVVEETQQAEHSQEFDPLEEAIARVQELEEQLKTQIEEAANKEQDILLRSRAEIENLRRRTEQDVEKAHKFALEKFSKDILNTIDNLERALATPANKEDESVKALFDGVELTLKELVSTVGRFGVEAVGVVGEAFNPDLHQAISMQPAEGFETNQISVVLQKGYTLNGRVIRPAMVMVAA |
| 1493 | sp|B7VJW7|GRPE\_VIBTL | MSNEENKVTEEELDQIIAEAEKVEEAELNEESVDEQEAKIAQLEAALLSSESKVKEQQDSVLRAKAEVENMRRRSEQEIDKARKFALNKFAEGLLPVIDNLERAMQAADAENEVVKPLFEGVELTHKTFVDTVAKFGLKEINPEGEVFNPEFHQAMSIQESPDHESNTVMFVMQKGYELNGRVVRPAMVMVAK |
| 1494 | sp|Q9ZVQ3|GSTZ1\_ARATH | MANSGEEKLKLYSYWRSSCAHRVRIALALKGLDYEYIPVNLLKGDQFDSDFKKINPMGTVPALVDGDVVINDSFAIIMYLDEKYPEPPLLPRDLHKRAVNYQAMSIVLSGIQPHQNLAVIRYIEEKINVEEKTAWVNNAITKGFTALEKLLVNCAGKHATGDEIYLADLFLAPQIHGAINRFQINMEPYPTLAKCYESYNELPAFQNALPEKQPDAPSSTI |
| 1495 | sp|Q9ZRW8|GSTUJ\_ARATH | MANEVILLDFWPSMFGMRTRIALREKGVEFEYREEDLRNKSPLLLQMNPIHKKIPVLIHNGKPVNESIIQVQYIDEVWSHKNPILPSDPYLRAQARFWADFIDKKLYDAQRKVWATKGEEQEAGKKDFIEILKTLESELGDKPYFSGDDFGYVDIALIGFYTWFPAYEKFANFSIESEVPKLIAWVKKCLQRESVAKSLPDPEKVTEFVSELRKKFVPE |
| 1496 | sp|A5TZ78|GRPE\_MYCTA | MTDGNQKPDGNSGEQVTVTDKRRIDPETGEVRHVPPGDMPGGTAAADAAHTEDKVAELTADLQRVQADFANYRKRALRDQQAAADRAKASVVSQLLGVLDDLERARKHGDLESGPLKSVADKLDSALTGLGLVAFGAEGEDFDPVLHEAVQHEGDGGQGSKPVIGTVMRQGYQLGEQVLRHALVGVVDTVVVDAAELESVDDGTAVADTAENDQADQGNSADTSGEQAESEPSGS |
| 1497 | sp|B0TQ37|GRPE\_SHEHH | MSNQTNKAQDNQVEEIVEGELLNENGTEATGEASLMDELTQANFRVEELEKALQEAETKVESQKDSVIRAAAEVDNIRRRSAIDVEKAHKFALEKFINELLPVLDNMERALQGTDAEAEATKAIYEGVELTAKSFVSTVEKFGLTQVDPLGDTFNPELHQAIGMQPSADFPANTVMMVMQKGYTLNDRLLRPAMVMVSQG |
| 1498 | sp|P47443|GRPE\_MYCGE | MCEKSQTIKELLNAIRTLVVKNNKAKVSMIEKELLAFVSELDKKFKQQLNNFNELQQKIPLLQKANEEFALKFERMQREAQNQIQAKLDELNLKNKKELEQAKKYAIAKTLDQPLNIIDQFEIALSYAQKDPQVKNYTTGFTMVLDAFSRWLEANGVTKIKIEPGMEFDEKIMSALELVDSNLAKNKVVRVSKSGYKLYDKVIRFASVFVSKGNKKS |
| 1499 | sp|Q8EQQ9|HFQ\_OCEIH | MAQSVNIQDQYLNQLRKNHISVTVFLTNGFQLRGLVKAFDNFTVLLETDGKQQLIFKHAISTFSPVKNVSLDKE |
| 1500 | sp|Q02FR0|GRPE\_PSEAB | MADEQQTLDQQTPEQPTGAAEDLTARVQELEEQLAAAQDQALRMVADLQNVRRRAEQDVEKAHKFALEKFAGDLLAVVDTLERGLEMSDPNDEAIKPMREGMELTLKMFDDTLRRYQVEALNPEGEPFNPEQHQAMAMQESASAEPGSVLKVFQKGYLLNGRLLRPAMVVVSKAPAETPPSIDEQA |
| 1501 | sp|Q07MY5|HFQ\_RHOP5 | MAADRAQNLQDTFLNHVRKTKTPLTIFLVNGVKLQGIVTWFDNFCLLLRRDGHSQLVYKHAISTIMPGAPIQLFEGGEDAPA |
| 1502 | sp|B1IZU5|HCHA\_ECOLC | MTVQTSKNPQVDIAEDNAFFPSEYSLSQYTSPVSDLDGVDYPKPYRGKHKILVIAADERYLPTDNGKLFSTGNHPIETLLPLYHLHAAGFEFEVATISGLMTKFEYWAMPHKDEKVMPFFEQHKSLFRNPKKLADVVASLNADSEYAAIFVPGGHGALIGLPESQDVAAALQWAIKNDRFVISLCHGPAAFLALRHGDNPLNGYSICAFPDAADKQTPEIGYMPGHLTWYFGEELKKMGMNIINDDITGRVHKDRKVLTGDSPFAANALGKLAAQEMLAAYAG |
| 1503 | sp|Q98MX2|HFQ\_RHILO | MAERSQNLQDLFLNSVRKSKNPLTIFLINGVKLTGVVTSFDNFCVLLRRDGHSQLVYKHAISTIMPSQPVQMFDGEESQGA |
| 1504 | sp|P64344|HFQ\_NEIMA | MTAKGQMLQDPFLNALRKEHVPVSIYLVNGIKLQGQVESFDQYVVLLRNTSVTQMVYKHAISTIVPARSVNLQHENRPQAAPTSTLVQVETVQQPAE |
| 1505 | sp|A3QAE0|HFQ\_SHELP | MAKGQSLQDPFLNALRRERVPVSIYLVNGIKLQGQVESFDQFVILLKNTVSQMVYKHAISTVVPARPFNVSSHHNTPNQAAGYNASHDDSAE |
| 1506 | sp|B0K1A5|HFQ\_THEPX | MASSKAAINLQDIFLNQVRKEHVPVTVYLINGFQLKGLVKGFDNFTVVLESENKQQLLIYKHAISTITPQKPVIFSASDKDEKREE |
| 1507 | sp|P33734|HIS5\_YEAST | MPVVHVIDVESGNLQSLTNAIEHLGYEVQLVKSPKDFNISGTSRLILPGVGNYGHFVDNLFNRGFEKPIREYIESGKPIMGICVGLQALFAGSVESPKSTGLNYIDFKLSRFDDSEKPVPEIGWNSCIPSENLFFGLDPYKRYYFVHSFAAILNSEKKKNLENDGWKIAKAKYGSEEFIAAVNKNNIFATQFHPEKSGKAGLNVIENFLKQQSPPIPNYSAEEKELLMNDYSNYGLTRRIIACLDVRTNDQGDLVVTKGDQYDVREKSDGKGVRNLGKPVQLAQKYYQQGADEVTFLNITSFRDCPLKDTPMLEVLKQAAKTVFVPLTVGGGIKDIVDVDGTKIPALEVASLYFRSGADKVSIGTDAVYAAEKYYELGNRGDGTSPIETISKAYGAQAVVISVDPKRVYVNSQADTKNKVFETEYPGPNGEKYCWYQCTIKGGRESRDLGVWELTRACEALGAGEILLNCIDKDGSNSGYDLELIEHVKDAVKIPVIASSGAGVPEHFEEAFLKTRADACLGAGMFHRGEFTVNDVKEYLLEHGLKVRMDEE |
| 1508 | sp|C1FNT6|HFQ\_CLOBJ | MTKVVNNLQDIFLNGARKNRIPVTIYLTNGFQLKGFVKGFDNFTVILDSDGKQMMIYKHAISTINPAKPLLFVQNPNGDDYKDKE |
| 1509 | sp|A9HLS1|HFQ\_GLUDA | MAKEPTQNVQDVFLNHVRRSKTPVTVFLVNGVKLQGIITWFDNFSVLLRRDGHTQLVYKHAISTVMPATPVVLFDPSRTEGATVDLTEKDLAGDADLL |
| 1510 | sp|Q1QY26|HFQ\_CHRSD | MSKGQSLQDPYLNILRKERIPVSIFLVNGIKLQGQIESFDQFVILLRNTVSQMVYKHAISTVVPSRNVRLPVQDPNAPAEEDS |
| 1511 | sp|B7NGA6|HFQ\_ECOLU | MAKGQSLQDPFLNALRRERVPVSIYLVNGIKLQGQIESFDQFVILLKNTVSQMVYKHAISTVVPSRPVSHHSNNAGGSTSSNYHHGSSAQNTSAQQDSEENE |
| 1512 | sp|B1I296|HFQ\_DESAP | MSKTQINLQDAFLNQLRKENIPVTIFLVNGFQLKGAVRGFDNFTVILESDGKQLMVYKHAISTVSPSRPVNTSATPEHRNVGQ |
| 1513 | sp|A2CIR5|NPR4\_ORYSJ | MVSDRSCIGYLRSVIAGSVDTHTGHECTITNHAAEEGGGTAAAAAVKVMTVSGSGKRGRYVRQVTGRHNDTDLHVAARGGDAGALRRALDEAAAAVATGEGREALEEVRRAVAAEPNEAGETPLVAAAERGHLEVVRELLRHLDAEGVAAKNRSGYDALHVAAREGRHAVVQEMLLHNRLLAKTFGPANTSPLISAATRGHTEVVKLLLELDDFGLVEMAKDNGKNSLHFAARQGHVEIVKALLEKDPQLARRNDKKGQTALHMAVKGTNCDVLRALVDADPAIVMLPDKNGNTALHVATRKKRAEIVAVLLRLPDTHVNALTRDHKTAYDIAEALPLCEESSEIKDILSQHGALRSRELNQPRDELRKTVTEIKKDVHTQLEQTRKTNKNVHGIAKELRKLHREGINNATNSVTVVAVLFATVAFAAIFTVPGGNANNGVAVVVQAASFRIFFIFNAIALFTSLAVVVVQITVVRGETKSERKVVEVINKLMWLASVCTTISFIASCYIVLGRHFQWAALLVSLIGGITMAGVLGTMTYYVVKSKRMRKIRKKEKMSRRSGSSSWYDNTELSETELNQVYAL |
| 1514 | sp|Q2RB33|NAC45\_ORYSJ | MVETSTSLVKLEQDGSLFLPPGFRFHPTDAEVILSYLLQKFLNPSFTSLPIGEVDLNKCEPWDLPSKAKMGEKEWYFFSHKDMKYPTGMRTNRATKEGYWKATGKDREIFNLQPTSYGGSSNNKNNKQLVGMKKTLVFYMGRAPKGTKTNWVMHEFRLHANLHNDNPNLRLNLKDEWVVCKVFHKKGDDREAINKQQAQAAAVDQYSAGTPNNGSSVEAGDDDDDLFQLDSIIDPSIYFSNSSAANILSAPPNMSNSVVAANYGASTTTTGTASAGSFQQQPNYCSLINKSISSSNVSSWNNMPPPPPVAEGGVHGIGSSYSLQHQAAMVKALRDVIRLPNPLGMPQYKLDDAYLWDSS |
| 1515 | sp|Q75B37|OCA1\_ASHGO | MTDNCREDDDNLGTSGDNALSAPTQLLVTPPAPHQTIVPPLNFCPVERYLYRSGQPSTVNFPFLLNLNLRTIIWLANEEPQDALLAFCDMHDIRLRFAAINPEGGEDDNPWDGLTEHSIVSALQTIVHRDNYPLLVCCGMGRHRTGTVIGCLRRIMGWNLASVSEEYRRFTGSRGGRILVELLIEAFDTKSVTIDKANAPEWLATAVSASEASYVPATTYSIHEM |
| 1516 | sp|Q941T1|P5CS2\_ORYSJ | MGRGGIGGAGLVAAVAKADVENTDSTRGFVKDVKRIIIKVGTAVVTGPNGRLAMGRLGALCEQVKQLNFEGYEVILVTSGAVGVGRQRLKYRKLVNSSFADLQNPQMDMDGKACAAVGQSVLMAIYDTLFSQLDVTSSQLLVTDRDFMDPSFGNQLRETVNSLLDLKVIPVFNENDAISTRRQPYEDSSGIFWDNDSLARLLAQELKADLLIMLSDVEGLYSGPPSDPQSKIIHTYVHEQHGKLISFGEKSRVGRGGMQAKVAAAFTASSKGIPVVIASGFAIDSIIKVMRGEKIGTLFHREANQWGCSKEATAREMAVAARDCSRHLQKLSSEERKKILLDIADALEANEDLITSENQADLDLAQDIGYDKSLVARMTIKPGKIKSLAGSIREIADMEDPISHTLKRTEVAKDLVFEKTYCPLGVLLIIFESRPDALVQIASLAIRSGNGLLLKGGKEAMRSNTILHKVITGAIPDVVGKKLIGLVKNKDEIADLLKLDDVIDLVIPRGSNKLVSQIKAATKIPVLGHADGICHVYIDKSADMDMAKRIVLDAKVDYPAACNAMETLLVHKDLNRTEGLDDLLVELEKEGVVIYGGPVAHDTLKLPKVDSFHHEYNSMACTLEFVDDVQSAIDHINRYGSAHTDCIITTDGKAAETFLQQVDSAAVFHNASTRFCDGARFGLGAEVGISTGRIHARGPVGVDGLLTTRCILRGSGQVVNGDKGVVYTHRELPLQ |
| 1517 | sp|O82647|PDC1\_ARATH | MDTKIGSIDDCKPTNGDVCSPTNGTVATIHNSVPSSAITINYCDATLGRHLARRLVQAGVTDVFSVPGDFNLTLLDHLMAEPDLNLIGCCNELNAGYAADGYARSRGVGACVVTFTVGGLSVLNAIAGAYSENLPLICIVGGPNSNDYGTNRILHHTIGLPDFSQELRCFQTVTCYQAVVNNLDDAHEQIDKAISTALKESKPVYISVSCNLAAIPHHTFSRDPVPFSLAPRLSNKMGLEAAVEATLEFLNKAVKPVMVGGPKLRVAKACDAFVELADASGYALAMMPSAKGFVPEHHPHFIGTYWGAVSTPFCSEIVESADAYIFAGPIFNDYSSVGYSLLLKKEKAIVVQPDRITVANGPTFGCILMSDFFRELSKRVKRNETAYENYHRIFVPEGKPLKCESREPLRVNTMFQHIQKMLSSETAVIAETGDSWFNCQKLKLPKGCGYEFQMQYGSIGWSVGATLGYAQASPEKRVLAFIGDGSFQVTVQDISTMLRNGQKTIIFLINNGGYTIEVEIHDGPYNVIKNWNYTGLVDAIHNGEGNCWTAKVRYEEELVEAITTATTEKKDCLCFIEVILHKDDTSKELLEWGSRVSAANSRPPNPQ |
| 1518 | sp|Q4MVY3|PFKA\_BACCE | MKRIGVLTSGGDSPGMNAAIRAVVRKAIFHDIEVYGIYHGYAGLISGHIEKLELGSVGDIIHRGGTKLYTARCPEFKDPEVRLKGIEQLKKHGIEGLVVIGGDGSYQGAKKLTEQGFPCVGVPGTIDNDIPGTDFTIGFDTALNTVIDAIDKIRDTATSHERTYVIEVMGRHAGDIALWAGLADGAETILIPEEEYDMEDVIARLKRGSERGKKHSIIVVAEGVGSAIDIGKHIEEATNFDTRVTVLGHVQRGGSPSAQDRVLASRLGARAVELLIAGKGGRCVGIQDNKLVDHDIIEALAQKHTIDKDMYQLSKELSI |
| 1519 | sp|P30705|PHOE\_SALTY | MNKSTLAIVVSIIASASVHAAEVYNKNGNKLDVYGKVKAMHYMSDYDSKDGDQSYVRFGFKGETQINDQLTGYGRWEAEFASNKAESDSSQQKTRLAFAGLKLKDIGSFDYGRNLGALYDVEAWTDMFPEFGGDSSAQTDNFMTKRASGLATYRNTDFFGIVDGLDLTLQYQGKNEDRDVKKQNGDGFGTSVSYDFGGSDFAVSGAYTLSDRTREQNLQRRGTGDKAEAWATGVKYDANDIYIATFYSETRNMTPVSGGFANKTQNFEAVIQYQFDFGLRPSLGYVLSKGKDIEGVGSEDLVNYIDVGATYYFNKNMSAFVDYKINQLDSDNTLGINDDDIVAIGLTYQF |
| 1520 | sp|P40473|POG1\_YEAST | MKQEPHRQSEEKEKPKGPMAVEREQHTSLSSGTTVTASTGDESTNSRPVESSQTEKSLSLRIRILKQLGFDDIQELNACDTGLVEQFLNVRLINDTKELEKIRESNLAKLNQIIDKCMESDKISDSTLNKILDMSMNRDTNNDNNNHLTIPSPITTKKRKINASELASPRGHRRYRSDIPTVSEVETGVGYPQIHQQPGAYTLPMPANQWMSNPYMQPPQPQVQQIMPQYLYPPGMGPQAQLPTMSSNSESQTPVMSSQFLSLNQHGLYQQNIGAHPVMSMGPQANIYGQQHQLQPGQERDQSRKSFSHRRSQSANISMANFRSPMRNPQPASSQRPVNFLIHTPKHPPPT |
| 1521 | sp|G5CTG6|AQP9\_MILTA | MGAFVNTKVYIENKNIRDWLSEALSMFMYMSLLLGSAATGHFSGREDDALFGVIFQGFSITFGIYIGGAMSGAIINPALTLAVALLGKISWRKCIVLQSAQYIGSFIASAVVYLIYNDSLDAFGAGANFTATEPGVFRKDVAGIWSTFPKTYLKERGAIFNQIFCSMLLTFGFLAISDYKNFRPSKGLFPIAVGLLVMTVFLAFSYSTGAAMNPARDFSPRLWSLIIGYGIEVFSYNQYEWFWIPWLMPYVGAMLGALIYQLLIGAQWSKGQKGESKHKDP |
| 1522 | sp|A6TZ28|HCHA\_STAA2 | MSQDVNELSKQPTPDKAEDNAFFPSPYSLSQYTAPKTDFDGVEHKGAYKDGKWKVLMIAAEERYVLLENGKMFSTGNHPVEMLLPLHHLMEAGFDVDVATLSGYPVKLELWAMPTEDEAVISTYNKLKEKLKQPKKLADVIKNELGPDSDYLSVFIPGGHAAVVGISESEDVQQTLDWALDNDRFIVTLCHGPAALLSAGLNREKSPLEGYSVCVFPDSLDEGANIEIGYLPGRLKWLVADLLTKQGLKVVNDDMTGRTLKDRKLLTGDSPLASNELGKLAVNEMLNAIQNK |
| 1523 | sp|Q87VJ4|HFQ\_PSESM | MSKGHSLQDPYLNTLRKEKVGVSIYLVNGIKLQGTIESFDQFVILLKNTVSQMVYKHAISTVVPVRPIRLPSATDADGADAEPGNA |
| 1524 | sp|B2FL26|HFQ\_STRMK | MSKGQSLQDPFLNALRRERVPVSVYLVNGIKLQGTIESFDQFVVLLRNTVSQMVYKHAISTVVPARNVKVGPGGGYVQSGEGGQAGDEADE |
| 1525 | sp|C3LR79|HFQ\_VIBCM | MAKGQSLQDPFLNALRRERIPVSIYLVNGIKLQGQIESFDQFVILLKNTVNQMVYKHAISTVVPARPVSHHSGDRPASDRPAEKSEE |
| 1526 | sp|Q2YSB0|HCHA\_STAAB | MSQDVNELSKQPTPDKAEDNAFFPSPYSLSQYTAPKTDFDGVEHKGAYKDGKWKVLMIAAEERYVLLENGKMFSTGNHPVEMLLPLHHLMEAGFDVDVATLSGYPAKLELWAMPTEDEAVITTYNKLKEKLKQPKKLADVIKNELGPDSDYLSVFIPGGHAAVVGISESEDVQKTLDWALENDRFIVTLCHGPAALLSAGLNREKSPLEGYSVCVFPDSLDEGANIEIGYLPGRLKWLVAELLTKQGLKVVNDDMTGRTLKDRKLLTGDSPLASNELGKLAVNEMLNAIQNK |
| 1527 | sp|B0TU64|HFQ\_SHEHH | MAKGQSLQDPFLNALRRERVPVSIYLVNGIKLQGQVESFDQFVILLKNTVSQMVYKHAISTVVPSRPFNVSNHQATNAQAGFNAQHDDGDDK |
| 1528 | sp|C5D9J0|HFQ\_GEOSW | MKNSINIQDQFLNQLRKDGTQVTVFLLNGYQLKGYIKGFDNFTVLLEVQGKQQLIYKHAISTFAPEKNVRFETE |
| 1529 | sp|A1K3Z4|HFQ\_AZOSB | MSNKGQLLQDPFLNTLRREHVPVSIYLVNGIKLQGQIESFDQYVVLLKNTVTQMVYKHAISTVVPARPVTIQQQDGEGGN |
| 1530 | sp|B0BTY6|HFQ\_ACTPJ | MAKGQSLQDPYLNALRRERIPVSIYLVNGIKLQGQIESFDQFVILLKNTVSQMVYKHAISTVVPARSVSHNNGGAAHTQQSPAVEAVADKAE |
| 1531 | sp|Q9SZG0|HHP4\_ARATH | MGDEAEIKEHLKPQASSETMDKKHNVKGKRLWQKVKYQLVEFHSLPAYLRDNEYIIGHYRSEWPIKQILLSIFTIHNETLNVWTHLIGFFLFLALTIYTATKVPSVVDLHSLQHRLPDLLRKTDLHKLHSELMARLPSSPSSWHVMDLLYNCLPERFSHGNYTDMCVLHSVREDLANLIAPLIFRPITRWPFYAFLGGAMFCLLASSTCHLLSCHSERVSYIMLRLDYAGIAALIATSFYPPVYYSFMCDPFFCNLYLGFITILGIATVLVSLLPVFQSPEFRVVRASLFFGMGFSGLAPILHKLIIFWDQPEALHTTGYEILMGLLYGLGALVYATRIPERWMPGKFDIAGHSHQLFHVLVVAGAFTHYRAGLVYLKWRDIEGC |
| 1532 | sp|Q93VB5|HFA4D\_ORYSJ | MESSNLGGGGGGGGGGGPPPFLIKTYEMVEDAATNHVVSWGPGGASFVVWNPLDFSRDLLPKYFKHNNFSSFIRQLNTYGFRKIDPERWEFANEDFIRGHTHLLKNIHRRKPVHSHSLQNQINGPLAESERRELEEEINRLKYEKSILVADLQRQNQQQYVINWQMQAMEGRLVAMEQRQKNIVASLCEMLQRRGGAVSSSLLESDHFSKKRRVPKMDLFVDDCAAGEEQKVFQFQGIGTDAPAMPPVLPVTNGEAFDRVELSLVSLEKLFQRANDACTAAEEMYSHGHGGTEPSTAICPEEMNTAPMETGIDLQLPASLHPSSPNTGNAHLHLSTELTESPGFVQSPELPMAEIREDIHVTRYPTQADVNSEIASSTDTSQDGTSETEASHGPTNDVFWERFLTETPRSCLDESERQESPKDDVKAELGCNGFHHREKVDQITEQMGHLASAEQTLHT |
| 1533 | sp|Q8YPZ6|HRCA\_NOSS1 | MQVQLTNRQQHILWATVRHYIATAEPVGSKALVEEYDLGVSSATIRNVMGVLEKSGLLYQPHTSAGRVPSDSGYRIYVDQLITPSLRDTTRAEVLAKEVESALQQHLQWEDWSLEILLQGAAQILASLSGCISLITMPQTNTASVRHLQLMQIETGRIMLILVTDSYETHSKLMDLPPARSETKPDPEVIDRELQIVSNFLNSHLRGRSLLEISTLDWSQLDREFQSYGEFLKNSVAELAHRSAAPAATQIMVRGLAEVLRQPEFSQLQQVKTIIQLLEEEQEQLWRLIFEEPELEDTHKSKVTVRIGAENPLEPIRTCSLISSTYRRGGVPLGSVGVLGPTRLDYESAIAVVAAAADYLSEAFS |
| 1534 | sp|A5IIT2|HRCA\_THEP1 | MRRLNRKNSDASKKLNDRQRKVLYCIVREYIENKKPVSSQRVLEVSNIEFSSATIRNDMKKLEYLGYIYQPHTSAGRIPTDKGLRFYYEEMLKISKETSEADLAVETFKSMPLADPEKVLFLAGNLLARLTEGYVLIERPNTRDLKILRVMLIPVSEDYLIFSILTEFGVSRVTPIKTQERLNWEEIERQLNFLLRGKTIGEVLLGRIESLKGSGFLRLIESLIGETIERYLDAGLENLLKDETLALEDIRNLLEEIKDQKFLESLVGEGISVMIGREIGRKNLEKFAVFSGRYFKGESPIGSVYFFTSKVTRYDRNHKIFEYILNRLSEYFTSTSRR |
| 1535 | sp|B1MN38|HRCA\_MYCA9 | MASADDRRFEVLRAIVADYVTTKEPIGSKALVDRHGLGVSSATVRNDMAVLEAEGYIAQPHTSSGRVPTEKGYREFVNRLEDVKPLSGAERKAILNFLEGGVDLDDVLRRAVRLLAQMTRQVAVVQYPTLSSSSVRHLEVVSLSPARLLLVVITDTGRVDQRIVELGDVINDEQLGRLRVLLGAALDGKKLSAASVAVAELAEQSDDDLRDPITRAATVLVETLVEHHEERLLLGGTANLTRNAADFGGQLRTVLEALEEQVVVLRLLAAQQEAGRVTVHIGHETAAEQMIGTSVVSTPYGAGGAVFGGMGVLGPTRMDYPGTIANVAAVAMYIGEVLANR |
| 1536 | sp|C1CJ04|HRCA\_STRZP | MVTERQQDILNLIIDIFTKTHEPVGSKALQESINSSSATIRNDMAELEKQGLLEKAHTSSGRMPSVAGFQYYVKHSLDFHRLAENEVYEIVKAFDQEFFKLEDILQEAANLLTDLSGCTVVALDVEPSRQRLTAFDIVVLGQHTALAVFTLDESRTVTSQFLIPRNFLQEDLLKLKSIIQERFLGHTVLDIHYKIRTEIPQIIQRYFTTTDNVIDLFEHIFKEMFNENIVMAGKVNLLNFANLAAYQFFDQPQKVALEIREGLREDQMQNVRIADGQESCLADLAVISSKFLIPYRGVGILAIIGPVNLDYQQLINQINVVNRVLTMKLTDFYRYLSSNHYEVH |
| 1537 | sp|H7FWB6|IBP\_FLAFP | MKILKRIPVLAVLLVGLMTNCSNDSDSSSLSVANSTYETTALNSQKSSTDQPNSGSKSGQTLDLVNLGVAANFAILSKTGITDVYKSAITGDVGASPITGAAILLKCDEVTGTIFSVDAAGPACKITDASRLTTAVGDMQIAYDNAAGRLNPDFLNLGAGTIGGKTLTPGLYKWTSTLNIPTDITISGSSTDVWIFQVAGNLNMSSAVRITLAGGAQAKNIFWQTAGAVTLGSTSHFEGNILSQTGINMKTAASINGRMMAQTAVTLQMNTVTIPQ |
| 1538 | sp|Q1CD75|IBPB\_YERPN | MRNYDLSPLLRQWIGFDKLASTMQGGQEPQGFPPYNIEKTDDNHYRISLALAGFKQSELDIEVEGPRLTVRGKPTPVEKQVEYLHQGLVRKEFSLTFTLAEHLNVDNAQFENGLLHIDLLRQVPEALQPQRIAIGSATPQERQVLESPEAPDQQ |
| 1539 | sp|Q31T16|IRAD\_SHIBS | MMRQSLQAVLPEISGNKTSLLRKSVCSDLLTLFNSPHSALPSLLVSGMPEWQVHNPSDKHLQSWYCRQLRSALLFHEPRIAALQVNLKEAYCHTLAISLEIMLYHDDEPLTFDLVWDNGGWRSATLENVS |
| 1540 | sp|B1LDR4|IRAD\_ECOSM | MMRQSLQAVLPEISGNKTSSLRKSVCSDLLTLFNSPHSALPSLLVSGMPEWQLHNQSDKHLQSWYCRQLRSALLFHEPRIAALQVNLKEAYCHTLAISLEIMLYHDDEPLTFDLVWQKGSWHRTMPQ |
| 1541 | sp|P0AAP6|IPRA\_ECO57 | MLSVVKPLQEFGKLDKCLSRYGTRFEFNNEKQVIFSSDVNNEDTFVILEGVISLRREENVLIGITQAPYIMGLADGLMKNDIPYKLISEGNCTGYHLPAKQTITLIEQNQLWRDAFYWLAWQNRILELRDVQLIGHNSYEQIRATLLSMIDWNEELRSRIGVMNYIHQRTRISRSVVAEVLAALRKGGYIEMNKGKLVAINRLPSEY |
| 1542 | sp|P23726|P85B\_BOVIN | MAGPEGFQYRALYPFRRERPEDLELLPGDVLVVSRAALQALGVAEGNERCPQSVGWMPGLNERTRQRGDFPGTYVEFLGPVALARPGPRPRGPRPLPARPRDGPPEPGLTLPDLPEQFSPPDVAPPILVKLVEAIERTGLDSYRPEPPAVRTDWSLSDVEQWDAAALSDGVKGFLLALPAPLVTPEAAAEAHRALREAAGPVGPALEPPTLPLHHALTLRFLLQHLGRVAGRAPAPGPAVRALGATFGPLLLRAPPPPSPPPGGAPDGTEPTPDFPALLVEKLLQEHLEEQEVAPPALPPKPPKTKPAPTGLANGGSPPSLQDAEWYWGDISREEVNEKLRDTPDGTFLVRDASSKIQGEYTLTLRKGGNNKLIKVFHRDGHYGFSEPLTFCSVVDLITHYRHESLAQYNAKLDTRLLYPVSKYQQDQIVKEDSVEAVGAQLKVYHQQYQDKSREYDQLYEEYTRTSQELQMKRTAIEAFNETIKIFEEQGQTQEKCSKEYLERFRREGNEKEMQRILLNSERLKSRIAEIHESRTKLEQELRAQASDNREIDKRMNSLKPDLMQLRKIRDQYLVWLTQKGARQKKINEWLGIKNETEDQYSLMEDEDDLPHHEERTWYVGKINRTQAEEMLSGKRDGTFLIRESSQRGCYACSVVVDGDTKHCVIYRTATGFGFAEPYNLYGSLKELVLHYQHASLVQHNDALTVTLAHPVRAPGPGPPPAAR |
| 1543 | sp|Q9M039|PDC3\_ARATH | MDVRSLPSNGVATIQDSAPTAATILGSSAATLGRHLSRRLVQAGVTDIFTVPGDFNLSLLDQLIANPELNNIGCCNELNAGYAADGYARSRGVGACVVTFTVGGLSVLNAIAGAYSENLPVICIVGGPNSNDFGTNRILHHTIGLPDFSQELRCFQTVTCYQAVVNHLEDAHEQIDKAIATALRESKPVYISISCNLAAIPHPTFASYPVPFDLTPRLSNKDCLEAAVEATLEFLNKAVKPVMVGGPKLRVAKARDAFVELADASGYPVAVMPSAKGFVPENHPHFIGTYWGAVSTLFCSEIVESADAYIFAGPIFNDYSSVGYSLLLKKEKAIIVHPDSVVVANGPTFGCVRMSEFFRELAKRVKPNKTAYENYHRIFVPEGKPLKCKPREPLRINAMFQHIQKMLSNETAVIAETGDSWFNCQKLKLPKGCGYEFQMQYGSIGWSVGATLGYAQATPEKRVLSFIGDGSFQVTAQDVSTMIRNGQKTIIFLINNGGYTIEVEIHDGPYNVIKNWNYTGLVDAIHNGEGKCWTTKVRYEEELVEAINTATLEKKDSLCFIEVIVHKDDTSKELLEWGSRVSAANGRPPNPQ |
| 1544 | sp|A1ZAG4|PAR16\_DROME | MTLLSGANSVGYPSQMPAKRISWRRLVALLPNSIGLSLKPVTPHLRDLHLVQRRLQDDFLGCEALWTIFMAAAWSYRYRTRLRPFPSHWNTIDLVFNTLGDAPRLEVLQQQLMHCDYQACSPNVVRLLTDILVDQADRVSLSSLRPCEFQELYAHLGMSPPKQPPTQIFEVRTGKGNEKGEAYASLRQENKESVRLGFYGCKLEKVYALLNSQNSLDNGKYLELTCDINEALARSKPQAGVGGSRCGSILRCVAVVEFVFQDNETSRDKKQVIIKDANTMQVSYLLLYGQSCNEYAMERQIKLMAEPARELLNWLERYHKKAISLGVGLLIVSSMAHFGSTFFRLLARTGFYVFKRGIL |
| 1545 | sp|Q5ASN8|PRX5\_EMENI | MSGLKAGDSFPADVVFSYIPWTEEKGEITSCGIPINYYASKEWADKKVILFALPGAFTPVCSARHVPEYIERLPEIRAKGVDVVAVLAYNDAFVMSAWGKANGVKNDDILFLSDPEAKFSKSIGWADEEGRTKRYAIVLDHGKVTYAALEPAKNHLEFSSAETVIKHL |
| 1546 | sp|O35847|RCAN1\_CRIGR | MHFRDFNYNFSSLIACVANGDVFSESETRAKFESLFRTYDKDITFQYFKSFKRVRINFSNPLSAADARLQLHKTEFLGKEMKLYFAQTLHIGSSHLAPPNPDKQFLISPPASPPVGWKQVEDATPVINYDLLYAISKLGPGEKYELHAATDTTPSVVVHVCESDQENEEEEEMERMKRPKPKIIQTRRPEYTPIHLS |
| 1547 | sp|Q8RY59|RCD1\_ARATH | MEAKIVKVLDSSRCEDGFGKKRKRAASYAAYVTGVSCAKLQNVPPPNGQCQIPDKRRRLEGENKLSAYENRSGKALVRYYTYFKKTGIAKRVMMYENGEWNDLPEHVICAIQNELEEKSAAIEFKLCGHSFILDFLHMQRLDMETGAKTPLAWIDNAGKCFFPEIYESDERTNYCHHKCVEDPKQNAPHDIKLRLEIDVNGGETPRLNLEECSDESGDNMMDDVPLAQRSSNEHYDEATEDSCSRKLEAAVSKWDETDAIVVSGAKLTGSEVLDKDAVKKMFAVGTASLGHVPVLDVGRFSSEIAEARLALFQKQVEITKKHRGDANVRYAWLPAKREVLSAVMMQGLGVGGAFIRKSIYGVGIHLTAADCPYFSARYCDVDENGVRYMVLCRVIMGNMELLRGDKAQFFSGGEEYDNGVDDIESPKNYIVWNINMNTHIFPEFVVRFKLSNLPNAEGNLIAKRDNSGVTLEGPKDLPPQLESNQGARGSGSANSVGSSTTRPKSPWMPFPTLFAAISHKVAENDMLLINADYQQLRDKKMTRAEFVRKLRVIVGDDLLRSTITTLQNQPKSKEIPGSIRDHEEGAGGL |
| 1548 | sp|A2XKG2|RH10\_ORYSI | MAKKKDVEVEELDEEVVAAAAAPAADGGEEQEAEPPARRPSTFAELGVVPELVAACDAMGWKEPTRIQAEAIPHALEGRDLIGLGQTGSGKTGAFALPIIQALLKQDKPQALFACVLSPTRELAFQIGQQFEALGSAIGLSCTVLVGGVDRVQQAVSLAKRPHIVVGTPGRLLDHLTDTKGFSLNKLKYLVLDEADKLLNVEFQKALDDILNVIPKERRTFLFSATMTNKVSKLQRACLRNPVKVEVASKYSTVDTLRQEFYFVPADYKDCFLVHVLNELPGSMIMIFVRTCESTRLLALTLRNLRFKAISISGQMSQDKRLGALNRFKTKDCNILICTDVASRGLDIQGVDVVINYDIPMNSKDYVHRVGRTARAGNTGYAVSLVNQYEAMWFKMIEKLLGYEIPDRKVDNAEIMILRERISDSKRIALTTMKEGGGHKKKRRKNEDDEEEEERNAPVSRKSKSFNKSRRR |
| 1549 | sp|Q9LY87|RGLG2\_ARATH | MGTGNSKENWRQSSFRSTSASSASPSSSSWASQQSYPQYGAESYNYPPPPSYAQPPEYTQPPPPLYSTQPYSAPSYSAPPSQSYGSDNKKRLERKYSKISDDYSSLEQVTEALARAGLESSNLIVGIDFTKSNEWTGARSFNRKSLHFIGSSPNPYEQAITIIGRTLAAFDEDNLIPCYGFGDASTHDQDVFSFNSEDRFCNGFEEVLSRYKEIVPQLKLAGPTSFAPIIDMAMTIVEQSGGQYHVLVIIADGQVTRSVDTENGQLSPQEQKTVDAIVQASKLPLSIVLVGVGDGPWDMMREFDDNIPARAFDNFQFVNFTEIMAKNKAQSLKETEFALSALMEIPQQYKATIELNLLGRRNGYIPERFPLPPPMRGGSSSYNSPKPSRLPSFKPSVPPHPTEGYHVRSSPVPPPTSSASDNQLCPICLSNPKDMAFGCGHQTCCECGPDLQMCPICRAPIQTRIKLY |
| 1550 | sp|P25894|LOIP\_ECOLI | MKIRALLVAMSVATVLTGCQNMDSNGLLSSGAEAFQAYSLSDAQVKTLSDQACQEMDSKATIAPANSEYAKRLTTIANALGNNINGQPVNYKVYMAKDVNAFAMANGCIRVYSGLMDMMTDNEVEAVIGHEMGHVALGHVKKGMQVALGTNAVRVAAASAGGIVGSLSQSQLGNLGEKLVNSQFSQRQEAEADDYSYDLLRQRGISPAGLATSFEKLAKLEEGRQSSMFDDHPASAERAQHIRDRMSADGIK |
| 1551 | sp|O69177|LON\_RHIME | MTNKTSPATESATYPVLPLRDIVVFPHMIVPLFVGREKSIRALEEVMGTDKQIMLVTQINATDDDPEPSAIYKVGTIANVLQLLKLPDGTVKVLVEGRSRAEIERYTPRDDFYEAMAHALPEPDEDPVEIEALSRSVVSEFESYVKLNKKISPEVVGVASQIEDYSKLADTVASHLSIKIVEKQEMLETTSVKMRLEKALGFMEGEISVLQVEKRIRSRVKRQMEKTQREYYLNEQMKAIQKELGDSEDGRDEMAELEERISKTKLSKEAREKADAELKKLRQMSPMSAEATVVRNYLDWLLGLPWGKKSKIKTDLNHAEKVLDTDHFGLDKVKERIVEYLAVQARSSKIKGPILCLVGPPGVGKTSLAKSIAKATGREYIRMALGGVRDEAEIRGHRRTYIGSMPGKVVQSMKKAKKSNPLFLLDEIDKMGQDFRGDPSSALLEVLDPEQNSTFMDHYLEVEYDLSNVMFITTANTLNIPPPLMDRMEVIRIAGYTEDEKREIAKRHLLPKAIRDHALQPNEFSVTDGALMAVIQNYTREAGVRNFERELMKLARKAVTEILKGKTKKVEVTAENIHDYLGVPRFRHGEAERDDQVGVVTGLAWTEVGGELLTIEGVMMPGKGRMTVTGNLRDVMKESISAAASYVRSRAIDFGIEPPLFDKRDIHVHVPEGATPKDGPSAGVAMATAIVSVMTGIPISKDVAMTGEITLRGRVLPIGGLKEKLLAALRGGIKKVLIPEENAKDLADIPDNVKNSLEIIPVSRMGEVIAHALLRLPEPIEWDPASQPAALPSVDSQDEAGTSIAH |
| 1552 | sp|P0C8E4|M3K7\_RAT | MSTASAASSSSSSSASEMIEAPSQVLNFEEIDYKEIEVEEVVGRGAFGVVCKAKWRAKDVAIKQIESESERKAFIVELRQLSRVNHPNIVKLYGACLNPVCLVMEYAEGGSLYNVLHGAEPLPYYTAAHAMSWCLQCSQGVAYLHSMQPKALIHRDLKPPNLLLVAGGTVLKICDFGTACDIQTHMTNNKGSAAWMAPEVFEGSNYSEKCDVFSWGIILWEVITRRKPFDEIGGPAFRIMWAVHNGTRPPLIKNLPKPIESLMTRCWSKDPSQRPSMEEIVKIMTHLMRYFPGADEPLQYPCQYSDEGQSNSATSTGSFMDIASTNTSNKSDTNMEQVPATNDTIKRLESKLLKNQAKQQSDSGRLSLGASRGSSVESLPPTSEGKRMSADMSEIEARIVATTAYTKPKRGHRKTASFGNILDVPEIVISGNGQPRRRSIQDLTVTGTEPGQVSSRSSSPSVRMITTSGPTSEKPARSLPWTPDDSTDTNGSDNSIPMAYLTLDHQLQPLAPCPNSKESMAVFEQHCKMAQEYMKVQTEIALLLQRKQELVAELDQDEKDQQNTSRLVQEHKKLLDENKSLSTYYQQCKKQLEVIRSQQQKRQGTS |
| 1553 | sp|Q9I958|MK14B\_CYPCA | MSHKERPTFYRQELNKTIWEVPERYQNLSPVGSGAYGSVCSALDTKSGLRVAVKKLSRPFQSMIHAKRTYRELRLLKHMKHENVIGLLDAFSPATCLAGFNDVYLVTHLMGADLNNIVKCQKLTDDHVQFLIYQILRGLKYIHSADIIHRDLKPSNLAVNEDCELKILDFGLARLTDDEMTGYVATRWYRAPEIMLNWMHYNMTVDIWSVGCIMAELLTGRTLFPGTDHINQLQQIMRLTGTPPASLISRMPSHEARNYINSLSYMPKRNFADVFVGANPMAVDLLEKMLVLDTDKRITASQALAHPYFAQYHDPDDEPEADPYDQSFESRDLDIEEWKRLTYEEVISFEPPVFDGDEMES |
| 1554 | sp|P53311|MPC3\_YEAST | MSASAFNFAFRRFWNSETGPKTVHFWAPTLKWGLVFAGLNDIKRPVEKVSGAQNLSLLATALIWTRWSFVIKPKNYLLASVNFFLGCTAGYHLTRIANFRIRNGDSFKQVIHYIIKGETPAAVAAKQTASTSMNKGVIGTNPPITH |
| 1555 | sp|P43392|MT1A\_ARATH | MADSNCGCGSSCKCGDSCSCEKNYNKECDNCSCGSNCSCGSNCNC |
| 1556 | sp|Q742C1|MPRA\_MYCPA | MRILVVDDDRAVRESLRRSLSFNGYSVELAHDGVEALDMIASDRPDALVLDVMMPRLDGLEVCRQLRSTGDDLPILVLTARDSVSERVAGLDAGADDYLPKPFALEELLARMRALLRRTKPEDDAESVAMTFSDLTLDPVTREVTRGQRRISLTRTEFALLEMLIANPRRVLTRSRILEEVWGFDFPTSGNALEVYVGYLRRKTEADGEPRLIHTVRGVGYVLRETPP |
| 1557 | sp|Q52QH4|NAC68\_ORYSJ | MEMAAAVGGSGRRDAEAELNLPPGFRFHPTDEELVVHYLCRKVARQPLPVPIIAEVDLYKLDPWDLPEKALFGRKEWYFFTPRDRKYPNGSRPNRAAGRGYWKATGADKPVAPKGSARTVGIKKALVFYSGKAPRGVKTDWIMHEYRLADADRAPGGKKGSQKLDEWVLCRLYNKKNNWEKVKLEQQDVASVAAAAPRNHHHQNGEVMDAAAADTMSDSFQTHDSDIDNASAGLRHGGCGGGGFGDVAPPRNGFVTVKEDNDWFTGLNFDELQPPYMMNLQHMQMQMVNPAAPGHDGGYLQSISSPQMKMWQTILPPF |
| 1558 | sp|Q5Z6B6|NAC76\_ORYSJ | MHPSGGALSVPPGFRFHPTDEELLYYYLRKKVAYEAIDLDVIREIDLNKLEPWDLKDRCRIGTGPQNEWYFFSHKDKKYPTGTRTNRATTAGFWKATGRDKAIFLANACRIGMRKTLVFYVGRAPHGKKTDWIMHEYRLDQDNVDVQEDGWVVCRVFMKKSYQRGLNPADMAAVDDDDLLHHHHHPFPPAQLHGGAADHKHDGAGGHHHHHLMQPHHHYDDFPSFDPSMQLPQLMSADQPPPPPPSLLPGGTASSLQRLPLQYLGCEAADLLRFSK |
| 1559 | sp|P0AFN2|PSPC\_ECOLI | MAGINLNKKLWRIPQQGMVRGVCAGIANYFDVPVKLVRILVVLSIFFGLALFTLVAYIILSFALDPMPDNMAFGEQLPSSSELLDEVDRELAASETRLREMERYVTSDTFTLRSRFRQL |
| 1560 | sp|Q9XI74|PUMP3\_ARATH | MERSRVTREAPTGTRILLASLSAMVAESVTFPIDLTKTRMQLHGSGSASGAHRIGAFGVVSEIARKEGVIGLYKGLSPAIIRHLFYTPIRIIGYENLKGLIVRSETNNSESLPLATKALVGGFSGVIAQVVASPADLVKVRMQADGRLVSQGLKPRYSGPIEAFTKILQSEGVKGLWKGVLPNIQRAFLVNMGELACYDHAKHFVIDKKIAEDNIFAHTLASIMSGLASTSLSCPADVVKTRMMNQGENAVYRNSYDCLVKTVKFEGIRALWKGFFPTWARLGPWQFVFWVSYEKFRLLAGISSF |
| 1561 | sp|Q7G1L2|RAP26\_ARATH | MVSMLTNVVSGETEPSASATWTMGHKREREEFSLPPQPLITGSAVTKECESSMSLERPKKYRGVRQRPWGKWAAEIRDPHKATRVWLGTFETAEAAARAYDAAALRFRGSKAKLNFPENVGTQTIQRNSHFLQNSMQPSLTYIDQCPTLLSYSRCMEQQQPLVGMLQPTEEENHFFEKPWTEYDQYNYSSFG |
| 1562 | sp|Q51559|RHLA\_PSEAE | MRRESLLVSVCKGLRVHVERVGQDPGRSTVMLVNGAMATTASFARTCKCLAEHFNVVLFDLPFAGQSRQHNPQRGLITKDDEVEILLALIERFEVNHLVSASWGGISTLLALSRNPRGIRSSVVMAFAPGLNQAMLDYVGRAQALIELDDKSAIGHLLNETVGKYLPQRLKASNHQHMASLATGEYEQARFHIDQVLALNDRGYLACLERIQSHVHFINGSWDEYTTAEDARQFRDYLPHCSFSRVEGTGHFLDLESKLAAVRVHRALLEHLLKQPEPQRAERAAGFHEMAIGYA |
| 1563 | sp|D0ZVL4|RPOS\_SALT1 | MSQNTLKVHDLNEDAEFDENGVEAFDEKALSEEEPSDNDLAEEELLSQGATQRVLDATQLYLGEIGYSPLLTAEEEVYFARRALRGDVASRRRMIESNLRLVVKIARRYGNRGLALLDLIEEGNLGLIRAVEKFDPERGFRFSTYATWWIRQTIERAIMNQTRTIRLPIHIVKELNVYLRTARELSHKLDHEPSAEEIAEQLDKPVDDVSRMLRLNERITSVDTPLGGDSEKALLDILADEKENGPEDTTQDDDMKQSIVKWLFELNAKQREVLARRFGLLGYEAATLEDVGREIGLTRERVRQIQVEGLRRLREILQTQGLNIEALFRE |
| 1564 | sp|Q9LJK2|ABAH4\_ARATH | MAEIWFLVVPILILCLLLVRVIVSKKKKNSRGKLPPGSMGWPYLGETLQLYSQNPNVFFTSKQKRYGEIFKTRILGYPCVMLASPEAARFVLVTHAHMFKPTYPRSKEKLIGPSALFFHQGDYHSHIRKLVQSSFYPETIRKLIPDIEHIALSSLQSWANMPIVSTYQEMKKFAFDVGILAIFGHLESSYKEILKHNYNIVDKGYNSFPMSLPGTSYHKALMARKQLKTIVSEIICERREKRALQTDFLGHLLNFKNEKGRVLTQEQIADNIIGVLFAAQDTTASCLTWILKYLHDDQKLLEAVKAEQKAIYEENSREKKPLTWRQTRNMPLTHKVIVESLRMASIISFTFREAVVDVEYKGYLIPKGWKVMPLFRNIHHNPKYFSNPEVFDPSRFEVNPKPNTFMPFGSGVHACPGNELAKLQILIFLHHLVSNFRWEVKGGEKGIQYSPFPIPQNGLPATFRRHSL |
| 1565 | sp|O06008|ADHR\_BACSU | MNIAQVAKQFGLTAATLRYYERVGLIPPVKRKDSGIRDYDEEDIKWIEFIKCMRNAGLSIEALIEYTTLFTEGDRTVEARKNILADERQRLIEKRKEIDETIKRLDTKIKDYDGKLRENEAKLKSRPKTESLHGSVEQRR |
| 1566 | sp|Q3A701|LON1\_PELCD | MTDDRDKTNEDPEKIIEADFNPEDPDDADIAEDAKEGLVVATDVLPSTLPIIPLRPRPAFPGILTPMVFTGEKHVALAKRAVDTPSKMMGLVLAKEVDEPDSLENLHRFGVVGRVMKVLHTDDDSIHLLVNCLERFSIRELTESEEGLFARVDYHYATELSVNPELKAYSMAIITTLKELVQINPLYSEEIKMFLNRQSMDDPGRLTDFAANLTSGDGQLLQEILETIDVRNRIDKVLVLLKKELEVSRLQTKISKQIEQKVSAQQREFFLREQLKAIKKELGLEKEGKVSEIEKYQKRLKNLTLSEEAQKTIDEEIEKLRLIEPSSPEYNVSRNYLDWLTILPWGKFSKDNYNIERARRVLDRDHYGLKDVKDRILEFIAVGMLKGDISGSILCLVGPPGVGKTSIGKSIAAALNRTFYRFSLGGMRDEAEIKGHRRTYIGAMPGRFIQAMKSAGTANPVLMLDEIDKVGASFQGDPASALLEVLDPEQNSSFRDHYLDVPFDLSNVLFVATANQLDTIPAPLLDRMEIIRLAGYILEEKLEIARRYLIPKALENHGLKKGQVTIRKDALRAIIDGYAREAGVRNLENRIKKIMRHAAMEFSQGRTDKITVSKKDVAAILGKPIFTEEEVFEDVPGVVTGLAWTSMGGATLQIEATAMPSRNKGFKQTGQLGKVMVESSDIAYSYVMAHLEEYGADPEFFDKHFVHLHVPAGATPKDGPSAGVTMATALLSMITGKPVIKKLGMTGELTLTGKVLPIGGVKEKIIAVKRIGLTTVILPEANRKDFEELPDHLRENLSVHFAGDYRDVYQVAFG |
| 1567 | sp|Q9TZM3|LRK1\_CAEEL | MDLSSGGPSSSSDVASELDNSDAMQLVRQAVLFENVELLADLFKVNPWVWNRVDRHGRTPLMLAAHNGKLDSLRTILMLSPNSLNLVNDRGKTALHMAAESGETSIVLELVELGSDPMKSDNEGHCALELAQMAGHNEVAAKLIDAIQKESEDLNEAHTMIISACISGSADVVYEISRRFMEKKQSREILFNGRNEEDETALLIACTNGHIEIVRHLLQFEEHLLQSHVSKDTVIHAAVSSQNVEVLQLCLEKFPQLVKSTNNEGSTCLHWAARCGSSECVSTILNFPFPSEFIIEIDTVGAPAYQLALDVNEVDGECRTAMYLAVAEGHLEVVKAMTDFKCTSIDGRQRCPFQLDVYCTRGRTPFMLAAFNQNLPLMTLLLDAGADVNLPLAVLDTEYSVEEGRCIGSGALVEAVRSDGLHIVHFLLDRGALDTDNKALRLAAQGKNEKLIRVFLVRLVFADPEYKINKKNIDVGQIQVGQSLLPSSLCPSKAAQLNWNSANLEQLQSDWFVAAALHVNPRLRTTRLSLAAITRVDLSDNRLNTFPSILFQMPSLRSLNLADNSIRKIEIPTYYISSTSLEILNLRNNQLECIAIQFLSSLPQLQQLDVSKNELSQLPEYIWLCPALKELNASYNRLSTLPMVARASRGERPRLNNSNNNFNTQSPTQESNPIVVDDPPNVTSNPLRRQNVWQASINLSKVDDDSLFPDFPVTSSNTLTTINLSFNKFHTFPFCLACTCPRLLILNMSNNSMTSLPPMACVPAHLRTLDLSYNKIQESFIEASPLHVVCHAVPPTTSNGSMLPKRRNSPARQHRSRSKSAVRSQRSLSVSRHHALIDPQKEEESCVHKRHDSLEWLKTLQLAGNRLRSISVTNAASKVLLPALNVMDISDNKLLQAPPDVARLTLLSMLNLSGNTAIKELPPDYGMLSRLWSLSLKGCSLKEPLESMVNVENCKTVEIVAYLKTILEESKTYHHLRLMILGSDGVGKSVIWDALCKEAVQKRQPIHSETGVIRQAEWKFEAKRSKGDKNLGPVGFSVIDFGGQREYHSTHQYFLSKRSLNLVLWKITDGDEALAQLDTWLVNIHARAPNSTVILVGTNLDQVASNSSKFGPGYIDIMEQKVRTRYMVADADKSGLPRIVDVILINSTSRNDVKALLNTIYRTAWEVRMGKERAMEQQIPSSYIALMKVTKELGVEFRKEGQPAVMTVEAYRERVKKRMISKFGRPFRDDIEFYAACTFLHDCGELVRFEDATLRDLIFVDPLWLAEFLTSVVILRSPNLPAGLLSTDAINPHTRSFKSGALLMLKTQLLDLLHKFELALATQPRQLLIPSLLPDEYRLRSDFLASAVKIRMKMSQWNVRCPSPAGSPTKSPLRRTSPTDQNGVGSEDVMLQFTYDDDQLLRRIYALAYIPSGFWSRLVTRIVGDKNVCAAIESIFMTTSADRAKIADIATKHAKAEWVVWQTGIELHVKGHSLFTLKQFLPLAEVRDIDYSAIDMRAKDEQKRWRTWNQPSHRPIVEMVVNSLSISAASQHGRKLSMKTDVEGRSRLLAMISDLLDTLLEDWYPALGTRFVHSSEGDLLVSRYVLCPQCVRDAERNGSRSRTSSSASHRRSQDDGELPITSSSHMKGSRTTGDISKCRGGVVHCFVIEECMLAGREYNWVECPSHGGLHMRELAPDTVFADIENALTIHPDQLKRSRMLGRGAFGFVFRATVRQPNGELCEVAQKMLEPVDPGPGGRPSALAAYKAAADKWKRDSMEFACRAYCTSRQELSLLSRMKHPNVIGLVGVCTFPLSLVVELAPLGALNQLLGSHRKAGTKLSLGVIKESAVQVARALEYLHSAHIIYRDLKSENVLGWRFPAPFSPQTDVLLKLGDYGISRSVLPSGGAKGFGGTEGFMAPEIVRFNGEEEYTQKVDCFSFGMFLYELLTLKFPFESEEHVKERMLDGARPVLLPHELLLPTPMLDLLVHCWSAHPESRPSSSQLVGFCAAPEFTHLLDVCELGEALPPTQLMAVGITDEIDDPDDFEAQLWLSGREMVVMGCTQYGFVDQKSIELPHRGKYVSKVRDSVWSCDECGQVTVYGISLHETGHLQLPSLNGTLICAPELISNDVLILISDKQIVLLKLSESNSVSHLGTIDSPYEIRTATFLGNGSTRQIWAGHSEGRISIHHIASNDSFSFSSSLYLPDDKCIVRQLVGSKDAQKVWIALEKSSKVQMVEVEKRQVTGSLDIRKVMPGSETIHTIDMEMASQNYVTCIGLLERNDGDQLYIGTSKGLLVIAHATTLQPLSACRPFEGDITSICILEEPSREEENTRGKATTLSTASSESGLGWVRERVSETVDRFRSSPATVETQGAALVVCIGRQFRSLSHRFVAEEKLADVYSIAVWRTEEWAL |
| 1568 | sp|A9GBF1|LON2\_SORC5 | MPTGDPSSRTPPSPDADSVPILPLRNSVLFPMSVVPINVGRPRSVRLVEDLLGRERALVGVISQRSPDVDEPTFKELYSVGTVARVVKVIRLGPNNYSVVLNGLGRFRVKSAFSLEPYMRARIERIPESLVRDVELEALGAGLREATREVLGLMPNLPRDTAGILDNVREPGALADLIASNFPQAQASVGDKQEILEAFDVKARVRLVLAMVGRQLEVLRVKKEISSMVQEEMGKSQREYILRQQMKSIKEELGEGGDDDEIEELRERIRRAKVPAEVDKVVRKQLSRLRSMAQQSAEFNVTKTYLEWIADLPWSKTTVDKLSVESVRRCLDEDHLGLEKVKKRIVEYSAIRQLRTDKKGPILLFIGPPGVGKTSLGKSIARSMGRRYERIALGGVRDEAEIRGHRRTYVGALPGRILQALKKAGTKNPVLVLDEVDKMGVDLRGDPAAALLEVLDPEQNSTFQDHYLDLPFDLSQVMFLATANNWDGIPGPLVDRMEVIEVPGYTRTDKLGIAREFLVPKQLSAHGLTDERLEFTEPGIEAVVDHYTREAGVRGLERQIAAVCRATAVKVAEGNDVREVATPEHVEQVLGPHKHRPEIAERTLQPGVATGLAWTPAGGEILFIEATKMPGKGNVVLTGNMRNVMQESASTAVSFVRSKADRLHLDPEWLKEIDLHVHIPQHGTPKDGPSAGVTMFAAVASLLLGAPVRSDVAMTGEISLRGRVMPVGGVKEKLLAAHRAGIRHVLIPAKNRRDLEDVPQDVKDQIKITMVSSMEEILPLVLEPPRRAPAQSASPEELEEQAGV |
| 1569 | sp|Q0RPW3|LON\_FRAAA | MTQLPHVRVDHMPQIRVLPVLPLDDAVVLPGMVVSLDMSDEQTRAAVDAARTGGSAGSSDARAPGISSRAAGRPAEVLLVPRVGGELAEVATVGVIEQVGRLPRGGSAAVVRGTARAQVGGVRPAPAGTDTTGTGTADATSGAGSGAGVQWVDAVVLDDSAATPFGALDDPAGTRAGSPADEAARVDKLAKEYRALVTDLLRQRGAWQVVDSVSAITDPGTLADTAGYSSYLTTAQKIELLGTPAVGTRLERLLTWTKEHLAEQDVAETIRRDVQEGMDRQQREFLLRRQLEAVRKELSELDGSGGGADGASGSEPADYRARVEAADLPEKVRAAALKEVDKLERTSDSSPEGGWIRTWLDTVLDLPWNVRAEDSYDIIAARAVLDADHAGLDDVKDRIIEHLAVRRRRADAGLGVVGGRRGGAVLALAGPPGVGKTSLGESIARAMGRSFVRVALGGVRDEAEIRGHRRTYVGALPGRIVRAIREAGSMNPVVLLDEVDKLGADYRGDPTAALLEVLDPEQNHTFRDHYLEVELDLSDVLFLATANVLEAIPAPLLDRMELIRLDGYTEDEKVVIARDHLLHRQLDRAGLAEGDVSVGDDALHALAGEYTREAGVRDLERSIARLLRKVVAQVALGAAALPVTIDAGDLTGYLGRPRHTPESAERTALPGVATGLAVTGAGGDVLFVEASLADAETGGGGITLTGQLGDVMKESAQIALSYLRSHGVELELPVGDLADRGVHVHVPAGAVPKDGPSAGVTMTTALASLLSGRPVRADVAMTGEVSLTGRVLPIGGVKQKLLAAHRAGLTTVLLPQRNGPDLDDVPAPVRDALTVHLVTDVREVLDLALEPAFDADHGGRSPGRAGHSPTALAA |
| 1570 | sp|Q72CE6|LON\_DESVH | MTDTGREGLQNREEGFELPLMSLREVVMFPRSIVPLFVGREASIKAIESAISDYGKKIFLVAQREPELEKPGPEDLFEVGTVSKILQLLRLPDGTIKVLFEGLYRARWDGTADAIIGADDAYPRVRVTRIEQESSEDDDEALVRATHEALDEYGKINKKLAQETLVAISALSDAARLADAIMPHLKVDYRRKQELLEVESGAERLEKVYELLQGEIAVASLEKRIKSRVKNQMERNQREYYLNEQIKAIHKEMGREDDPQAEVNELEARLAEKSMPEEAREKALREMKKLRQMPPSSAEYTVVRNYVDWILDLPWNTLKETEIDIDNARSILDADHYGLEKPKERILEYLAVQKLVNRLKGPILCLVGPPGVGKTSLAKSVAKATGREFVRLSLGGVRDEAEIRGHRRTYVGALPGKIIQSLKRVKHNNPLFCLDEIDKMSTDFRGDPSSALLEVLDPEQNSTFNDHYLDMDYDLSQVFFITTANSLHSIPLPLQDRMEIIRLPGYLETEKRRIAHDFLLPKQVEAHGLAASNLRISDNAVLEIIRSYTREAGVRNLEREIASVCRKAAMQVVEAGDKEKTLTVSRQNLGNFLGVKKYRHGEREDTSQVGVCTGLAWTEMGGELLVVETALMPGSGRVEITGKLGDVMTESAKAALSYLRSRSDLFGLRPDFHKEIDIHVHVPEGATPKDGPSAGITLATSMVSALLGIPVRNDVAMTGEITLRGRVLPIGGLREKLLAAHRGQIGKVLVPRENEKDLKEVPGEILKGLEIVFVDHVDEVLPQALMAQAESIFGGRTQSTPLYAKLRKDAQDGGATMPTAQ |
| 1571 | sp|B5VM65|MBR1\_YEAS6 | MRMEKTTDKPLSAGDMNDEYSRGPIDDIDCLNFFERAVQDPCCEACDTEDADEELRAKLSSFNFQPDSSPCNAKCQQTLNPLCKIDEGLPAESELAPSRNGSVSEANSDTNSIASTVHDPVDSKYGGMPSLRKAKTTSYFTSSSSNNTTMRNPLKKCNTNINGLLVNRRSSSSSRQSIPELFSGACTKKKNNVLLKSETPNSEFSTNSLQHCNSRSFSLPRSRSRSSAIAIPTHLYGLEKYVSPELDTLTADPEESIERFSNNRPREISSCCPNDTGDTSSSLSHSNTSSSLNFPLGTNTNQFHQPRQPVQQQQSSKPNFGAGRKKSFIEMSLASSFAG |
| 1572 | sp|P52564|MP2K6\_HUMAN | MSQSKGKKRNPGLKIPKEAFEQPQTSSTPPRDLDSKACISIGNQNFEVKADDLEPIMELGRGAYGVVEKMRHVPSGQIMAVKRIRATVNSQEQKRLLMDLDISMRTVDCPFTVTFYGALFREGDVWICMELMDTSLDKFYKQVIDKGQTIPEDILGKIAVSIVKALEHLHSKLSVIHRDVKPSNVLINALGQVKMCDFGISGYLVDSVAKTIDAGCKPYMAPERINPELNQKGYSVKSDIWSLGITMIELAILRFPYDSWGTPFQQLKQVVEEPSPQLPADKFSAEFVDFTSQCLKKNSKERPTYPELMQHPFFTLHESKGTDVASFVKLILGD |
| 1573 | sp|A2ZH20|MT1A\_ORYSI | MSCSCGSSCSCGSNCSCGKKYPDLEEKSSSTKATVVLGVAPEKKAQQFEAAAESGETAHGCSCGSSCRCNPCNC |
| 1574 | sp|P08164|NADE\_BACSU | MSMQEKIMRELHVKPSIDPKQEIEDRVNFLKQYVKKTGAKGFVLGISGGQDSTLAGRLAQLAVESIREEGGDAQFIAVRLPHGTQQDEDDAQLALKFIKPDKSWKFDIKSTVSAFSDQYQQETGDQLTDFNKGNVKARTRMIAQYAIGGQEGLLVLGTDHAAEAVTGFFTKYGDGGADLLPLTGLTKRQGRTLLKELGAPERLYLKEPTADLLDEKPQQSDETELGISYDEIDDYLEGKEVSAKVSEALEKRYSMTEHKRQVPASMFDDWWK |
| 1575 | sp|P50946|OCA1\_YEAST | MTSKVGEYEDVPEDESRLTEENVSVPEEEVEDEDEEEDDDDDHIYINEETESGREKVLVSHAPQERIVPPLNFCPVERYLYRSGQPSPVNFPFLLNLKLKTIIWLSNEEPQDTLLEFCDTHRINLQFAAINPDAGEDDNPWDGLTEHSIINVLQTIVTQENYPLLVCCGMGRHRTGTVIGCLRRIMGWNLASVSEEYRRFTGSRGGRILVELLIEAFDTNLVKIDKNKAPSWLLTALE |
| 1576 | sp|O64842|PBL12\_ARATH | MAVFKKKKTSLTSLFLGCYKAKNASKYEGGEKAVMKIRTCPAFKRLSLSDISDPSSPMSVMDDLSHSFTSQKLRLFTLSELRVITHNFSRSNMLGEGGFGPVYKGFIDDKVKPGIEAQPVAVKALDLHGHQGHREWLAEILFLGQLSNKHLVKLIGFCCEEEQRVLVYEYMPRGSLENQLFRRNSLAMAWGIRMKIALGAAKGLAFLHEAEKPVIYRDFKTSNILLDSDYNAKLSDFGLAKDGPEGEHTHVTTRVMGTQGYAAPEYIMTGHLTTMNDVYSFGVVLLELITGKRSMDNTRTRREQSLVEWARPMLRDQRKLERIIDPRLANQHKTEAAQVAASLAYKCLSQHPKYRPTMCEVVKVLESIQEVDIRKHDGNNNKEGKKFVDINKFRHHRKGKRRVNIAYSDSLVYKESKAKQNDGI |
| 1577 | sp|Q01606|PHOE\_KLEOX | MKKSSLALMMMGLIASSATQAAEVYNKNGNKLDVYGKVKAMHYMSDYDSKDGDQTYVRFGIKGETQINDDLTGYGRWESEFSGNKTESDSSQKTRLAFAGVKVKNYGSFDYGRNLGALYDVEAWTDMFPEFGGDSSAQTDNFMTKRASGLATYRNTDFFGVVDGLDLTLQYQGKNEGREAKKQNGDGFGTSLSYDFGGSDFAVSAAYTSSDRTNDQNLLARGAKKAEAWATGLKYDANNIYLATMYSETRKMTPISGGFANKAQNFEAVAQYQFDFGLRPSLGYVLSKGKDIEGVGSEDLVNYIDVGVTYYFNKNMNAFVDYKINQLKSDNKLGINDDDIVAVGMTYQF |
| 1578 | sp|P52291|PPA1\_PICPA | MFSPILSLEIILALATLQSVFAVELQHVLGVNDRPYPQRTDDQYNILRHLGGLGPYIGYNGWGIAAESEIESCTIDQAHLLMRHGERYPSTNVGKQLEALYQKLLDADVEVPTGPLSFFQDYDYFVSDAAWYEQETTKGFYSGLNTAFDFGTTLRERYDHLINTSEEGKKLSVWAGSQERVVDTAKYFAQGFMKSNYTDMVEVVALEEEKSQGLNSLTARISCPNYNSHIYKDGDFPNDIAEREADRLNTLSPGFNITADDIPTIALYCGFELNVRGESSFCDVLSREALLYTAYLRDLGWYYNVGNGNPLGKTIGYVYANATRQLLENTEADPRDYPLYFSFSHDTDLLQVFTSLGLFNVTDLPLDQIQFQTSFKSTEIVPMGARLLTERLLCTVEGEEKYYVRTILNDAVFPLSDCSSGPGFSCPLNDYVSRLEALNEDSDFAENCGVPKNASYPLELSFFWDDLS |
| 1579 | sp|Q8VYM4|PSRP2\_ARATH | MATFLTNVVSIKPTIFSFQSESFTPLHTRVNVFSSKPFPSLAGTFSRSSRTRFIPYAVTETEEKPAALDPSSEAARRVYIGNIPRTVTNEQLTKLVEEHGAVEKVQVMYDKYSGRSRRFGFATMKSVEDANAVVEKLNGNTVEGREIKVNITEKPIASSPDLSVLQSEDSAFVDSPYKVYVGNLAKTVTKEMLENLFSEKGKVVSAKVSRVPGTSKSTGFGFVTFSSEEDVEAAIVALNNSLLEGQKIRVNKA |
| 1580 | sp|O45962|RLE1\_CAEEL | MAPTGQGGQWQEVLCCSICNRHFNETFLPVSLICGHVICRKCAEKPENQTKPCPHDDWKTTHSPSEYPNNVALLSVIFPRKQCMTLSGAVSEAEKRVDQLSIQIAKFFREADSERGGTVSSREISRTLQRKVLALLCYQWREVDGRLKTLKMCRGISERVMIEIILSIQSNTHVSSQLWSAVRARGCQFLGPAMQDDVLRLILMTLETGECIARKNLVMYVVQTLASDYPQVSKTCVGHVVQLLYRASCFNVLKRDGESSLMQLKEEFRTYESLRREHDSQIVQIAFESGLRIGPDQWSALLYADQSHRSHMQSIIDKLQSKNSYQQGVEELRALAGSQTSMLVPAYRYFLTQVIPCLEFFAGIEHEDTSMRMIGDALHQIRILLKLHCSQDDLRKMPKEERRGVILQAEVPGGMGGGPGGSGGAEAGRIGGLHPLYSQIDETGRSISRTNPKDNSHNSPQTPPKQPRQKRYQMGIPPNRMGYSSDAPPFIPSHQQQPPPQFFNSQHLPQRFRGGRQRGAPPPPPPQPMPMLIGYDMPGAPMMQATEVLTADGQMVNGTPQRVVIMQSPTHLPGGPVVMIPQQQMVPPPQSMTPVGGPMGPMGPMTPSIPVQVPPNTMWTATSPTGSVIYPAASPPGQPPHTIWIQSTDGNMFPMFDRGSGGMVWGPGTMLRESGADAEQLLAKRYEILKRLQPSEDDDDPEDGGIGHVSYTVASSVLDDRMDHHPLTMIPVPTIDLPAIPISFANMPTEETMTMIGEMVQNRPRAPSLTAPSSNQPMNVNASASATVQAECGTMSVMDSICQPISTSAIHNSATIPQPVIPMVQVPVQVPIVPAENFNPNVPPPPPPPQGQPMLVDSAIGLLTPIRPILVAHPQNVVSNSLDKIVDVKERISEAQGNASEAENAHLRMELRMAESQMAHLDPYTKNNCLLRALQQVDMELQQLHLNPTVEG |
| 1581 | sp|Q8VXQ2|ALDH\_CRAPL | MSQVDAEGVVDGLRRTYISGKTKSYEWRVSQLKALLKITTHHDKEVVEALRADLKKPEHEAYVHEIFMVSNACKSALKELHQWMKPQKVKTSLATYPSSAEIVSEPLGVVLVITAWNYPFLLALDPMIGAIAAGNCVVLKPSEIAPATSALLAKLLNQYVDTSAIRVVEGAVPEMQALLDQRWDKIFYTGSSKVGQIVLSSAAKHLTPVVLELGGKCPTVVDANIDLKVAARRIISWKWSGNSGQTCISPDYIITTEENAPKLVDAIKCELESFYGKDPLKSQDMSSIINERQFERMTGLLDDKKVSDKIVYGGQSDKSNLKIAPTILLDVSEDSSVMSEEIFGPLLPIITVGKIEECYKIIASKPKPLAAYLFTNDKKRTEEFVSNVSAGGITINDIALHFLEPRLPFGGVGESGMGSYHGKFSFDAFSHKKSVLKRSFGGEVAARYPPYAPWKLHFMEAILQGDIFGLLKAWLGWSS |
| 1582 | sp|P82954|AHPC\_ACICA | SLINTEVKPFQATAYHNGQFVEVNE |
| 1583 | sp|P0AE37|ASTA\_ECOLI | MMVIRPVERSDVSALMQLASKTGGGLTSLPANEATLSARIERAIKTWQGELPKSEQGYVFVLEDSETGTVAGICAIEVAVGLNDPWYNYRVGTLVHASKELNVYNALPTLFLSNDHTGSSELCTLFLDPDWRKEGNGYLLSKSRFMFMAAFRDKFNDKVVAEMRGVIDEHGYSPFWQSLGKRFFSMDFSRADFLCGTGQKAFIAELMPKHPIYTHFLSQEAQDVIGQVHPQTAPARAVLEKEGFRYRNYIDIFDGGPTLECDIDRVRAIRKSRLVEVAEGQPAQGDFPACLVANENYHHFRVVLVRTDPATERLILTAAQLDALKCHAGDRVRLVRLCAEEKTA |
| 1584 | sp|O80683|CAB25\_ARATH | MVTSEGLASVDSWLYRQGFNVDSWLLSDTFSHDNDLLARALHTTVTAPHTLTPSSAFFDSSAVSHPSSTNTLSSTVSGASDPEIIGGGAKRKRNCLLTDGKAAKRRARASKKSQTTFITADPSNFRQMVQQVTGAKYIDDSSSFGIFDPIVKPEPLRFVNKLPCGPSDRSTAVPMLDTSAFLSNHHQENLAVGNAFSGNSSSVGLPSGKPSATADPGGSAVEFDNYPTFPTLESWKVM |
| 1585 | sp|A6VCL8|DNAK\_PSEA7 | MGKIIGIDLGTTNSCVAILENGNVKVIENAEGARTTPSIIAYTNDGETLVGQPAKRQAVTNPQNTLYAVKRLIGRRFEENVVQKDIQMVPYSIVKADNGDAWVEVKGQKMAPPQISAEVLKKMKKTAEDYLGEPVTEAVITVPAYFNDSQRQATKDAGRIAGLDVKRIINEPTAAALAYGLDKAKGDHTVIVYDLGGGTFDVSVIEIAEVDGEHQFEVLATNGDTFLGGEDFDIRLIDYLVDEFKKESGINLKGDPLAMQRLKEAAEKAKIELSSTQQTDVNLPYVTADASGPKHLNVKVSRAKLESLVEDLVQRTIEPCRTALKDAGLDVSDIHEVILVGGQTRMPLVQKTVAEFFGKEARKDVNPDEAVAVGAAIQGAVLAGDVKDVLLLDVTPLTLGIETLGGVMTGLIEKNTTIPTKKSQVFSTADDNQGAVTIHVLQGERKQAAQNKSLGKFDLADIPPAPRGVPQIEVTFDIDANGILHVSAKDKATGKQQSIVIKASSGLSEDEIQQMVRDAEANAEEDRKFEELAAARNQGDALVHATRKMITEAGDKATAEDKATIEKALGELEVAVKGDDKAEIEAKMNALSQASAPLAQKMYAEQAQQGEGAAQGEQAKSADDVVDAEFEEVKDNK |
| 1586 | sp|B6JCI3|DNAK\_OLICO | MGKVIGIDLGTTNSCVAVMDGKSPRVIENAEGMRTTPSIVALTDDDERLVGQPAKRQAVTNPEKTIFAVKRLIGRRYDDPTVAKDKDLVPYKIVKASNGDAWVEADGKIYSPSQISAFILQKMKETAEAHLGQKVDQAVITVPAYFNDAQRQATKDAGKIAGLEVLRIINEPTAAALAYGLDKAKQGTIAVYDLGGGTFDVSVLEIGDGVFEVKSTNGDTFLGGEDFDMRLVGYLADEFQKEQGINLRNDKLALQRLKEAAEKAKIELSSTTQTEINLPFITADASGPKHLTMKLTRAKFEALVDDLVQKTIEPCRKALKDAGLSAGEISEVVLVGGMTRMPKIQEVVKQFFGKEPHKGVNPDEVVAIGAAIQAGVLQGDVKDVLLLDVTPLSLGIETLGGVFTRIIERNTTIPTKKSQVFSTAEDNQNAVTIRVFQGEREMAADNKALGQFDLMGIPPAPRGMPQIEVTFDIDANGIVNVSAKDKATGKEQQIRIQASGGLSESEIEKMVKEAEANAAEDKKRREAVDAKNHADALVHSTEKALAEHGSKVGEGERKAIEDALADLKEALKGDDSEAIKAKSNTLAQASMKLGEAMYQQQAEGDAARDAAQDAAKDDVVDAEFTEVDDDKNDKKSA |
| 1587 | sp|Q56237|DNAJ2\_THET8 | MAAKKDYYAILGVPRNATQEEIKRAYKRLARQYHPDVNKSPEAEEKFKEINEAYAVLSDPEKRRIYDTYGTTEAPPPPPPGGYDFSGFDVEDFSEFFQELFGPGLFGGFGRRSRKGRDLRAELPLTLEEAFHGGERVVEVAGRRVSVRIPPGVREGSVIRVPGMGGQGNPPGDLLLVVRLLPHPVFRLEGQDLYATLDVPAPIAVVGGKVRAMTLEGPVEVAVPPRTQAGRKLRLKGKGFPGPAGRGDLYLEVRITIPERLTPEEEALWKKLAEAYYARA |
| 1588 | sp|O82132|DRE2A\_ARATH | MAVYDQSGDRNRTQIDTSRKRKSRSRGDGTTVAERLKRWKEYNETVEEVSTKKRKVPAKGSKKGCMKGKGGPENSRCSFRGVRQRIWGKWVAEIREPNRGSRLWLGTFPTAQEAASAYDEAAKAMYGPLARLNFPRSDASEVTSTSSQSEVCTVETPGCVHVKTEDPDCESKPFSGGVEPMYCLENGAEEMKRGVKADKHWLSEFEHNYWSDILKEKEKQKEQGIVETCQQQQQDSLSVADYGWPNDVDQSHLDSSDMFDVDELLRDLNGDDVFAGLNQDRYPGNSVANGSYRPESQQSGFDPLQSLNYGIPPFQLEGKDGNGFFDDLSYLDLEN |
| 1589 | sp|A2WL19|DRE2A\_ORYSI | MERGEGRRGDCSVQVRKKRTRRKSDGPDSIAETIKWWKEQNQKLQEENSSRKAPAKGSKKGCMAGKGGPENSNCAYRGVRQRTWGKWVAEIREPNRGRRLWLGSFPTALEAAHAYDEAARAMYGPTARVNFADNSTDANSGCTSAPSLMMSNGPATIPSDEKDELESPPFIVANGPAVLYQPDKKDVLERVVPEVQDVKTEGSNGLKRVCQERKTMEVCESEGIVLHKEVNISYDYFNVHEVVEMIIVELSADQKTEVHEEYQEGDDGFSLFSY |
| 1590 | sp|Q88Z31|FTSH\_LACPL | MNNRRNGLFRNSLFYILMFLSLMGIIYFFFGGNSGSQTQNIRYSEFVKQLDKNNVKNVSIQPSGGVYKVTGSYRKARTTSSANALGIKSASTKTTSFSTTMLENNSTVDQVSKLAAKHDVKVTAKAEESSGIWVTLLMYIAPVILMLFLFYMMMGQAGQGGGNNRVMNFGKTKAKPADSKQNKVRFSDVAGEEEEKQELVEVVEFLKDPRKFVSLGARIPSGVLLEGPPGTGKTLLAKAVAGEAGVPFFSISGSDFVEMFVGVGASRVRDLFEQAKKNAPSIIFIDEIDAVGRQRGNGMGGGHDEREQTLNQLLVEMDGFTGNEGVIVMAATNRSDVLDPALLRPGRFDRKILVGRPDVKGREAILKVHAKNKPLAADVDLKEIAKQTPGFVGADLENLLNEAALLAARRNKKQVDAADLDEAEDRVIAGPAKHDRVVNKHERETVAYHEAGHTIVGLVLNDARVVHKVTIVPRGRAGGYAIMLPREDQMLMSKRDAKEQMAGLMGGRAAEEIIFGAQSSGASNDFEQATQIARAMVTQYGMSEKLGPVELENANQQAAYQQGMGASAFSQHTAQLIDDEVRRLSQEAHQTATDIIESHREQHKLIAEALLKYETLDEKQILSLFKTGKMPEKDSNEFPSEKAATFEESKRELERREAEKHAQNQSADDKQADSADTTTNVSVAEPSFPSESDASSEVSADSSVNSTANSATESATDSDVATSATGLPNAESATPSSQDDTNSQA |
| 1591 | sp|O22850|GPX3\_ARATH | MPRSSRWVNQRATSKIKKFILFLGVAFVFYLYRYPSSPSTVEQSSTSIYNISVKDIEGKDVSLSKFTGKVLLIVNVASKCGLTHGNYKEMNILYAKYKTQGFEILAFPCNQFGSQEPGSNMEIKETVCNIFKAEFPIFDKIEVNGKNTCPLYNFLKEQKGGLFGDAIKWNFAKFLVDRQGNVVDRYAPTTSPLEIEKDIVKLLASA |
| 1592 | sp|O04922|GPX2\_ARATH | MADESPKSIYDFTVKDIGGNDVSLDQYKGKTLLVVNVASKCGLTDANYKELNVLYEKYKEQGLEILAFPCNQFLGQEPGNNEEIQQTVCTRFKAEFPIFDKVDVNGKNTAPLYKYLKAEKGGLLIDAIKWNFTKFLVSPDGKVLQRYSPRTSPLQFEKDIQTALGQASS |
| 1593 | sp|P28609|GRPE\_BORBU | MEKKETKSESEKTNKQDNKNTKSQKKENLNLVNSDKKIAELENEISNLKDLYLRKQAEFENFRKRLEKEKDNFVKFANETIMKDVVNFLDNLERAINSSKKSKDFDNLLTGISMIENEILSIFDKKYNLKKFGENGENFDPSRHEAISIEEKEGLKNPEIVEVYQKGYCYNDRILRTAKVKVAQSKN |
| 1594 | sp|Q892Q9|GRPE\_CLOTE | MKWRHDYMAEKKVEDLEMDLNEEELEESEVNEDKEFEELDKSEEENEVEELISTLKDENEKLNNEMEALKDRLLRTTGEYDNYRKRTDREKEGLYASACEDVLKEILPVLDNLERAILAKGDIEDLKKGVDMTLKQFKDSFKNLGVEEISTENGFDPNLHDAVMHVEDSQYGEKEVVEVFLKGYKKGDKIIRHSMVKVAN |
| 1595 | sp|B8FGS4|GRPE\_DESAL | MERMNQSRKVPIHDAAEESSAEAHETQEAGNMEEQAREAEIQQEMAEEAVEQAQDAEEAQEEEAADYKDLYLRTLAEFENYRRRADRETNEFKKYANETLIKDIIPVIDNLERAMECTVNTDDPGCAQNLLAGVQMTEREILKVLEKYGVTRISAIGETFDPAYHQALMAEESDEHPDETVIREMQKGYLLKDRLIRPALVAVAKGKA |
| 1596 | sp|Q8G6W2|GRPE\_BIFLO | MSEFNKDDYLNDLPDPSDAEAAAQASSGADASAESGSAQDSAAQAPSNEGADAAPAAAEGEKTGEGQSDSADTLTPLGKAKKEAADYLEALQRERAEFINYRNRTQKEQERFRQHGIIDVLTALLPALDDIDRIREHSEMDDSFKAVATKIDKAFEKFGVEKFGEKGEDFDPTKHDAILHKPDADAEKETVDTVVEAGYRIGDRVIRAARVVVASPQN |
| 1597 | sp|B5Y9H0|GRPE\_COPPD | MDDKQKTNEEVKASSFDSEKSSKNQAFENTEEPAEGFQNVQHDNGSNPAQKQNSEAKEASKDQTNTNNNELSKKLEQLETERLTLQEKIAVLEQQHRELEEFLLKMKHEFALAKEALKRDQEKKERLLAESMARDLFPILDTLDHALEHDGENNGLRLIRSQLVSVLEKYGVVEVGKEGEVFDPNWHEFLGYAEGPENKIIKVVRKGYKIGDTLLRPALVVIGKESSC |
| 1598 | sp|Q8RB69|GRPE\_CALS4 | MEELEKDKIERNEEMSEEVKGEGPPSELEQSEEVVEEKIETEVEQKKEPSLEEIVEELRKKLEEKEKEAKEYLDIAQRIKAEFDNYRKRTEKEKAEMISYGQEQVIIELLPVIDNFERALANEGDYNSLREGLELIYRQFKKVLDKFEVREIEAEGQMFDPYKHHALAQEEVEGKQPNEIIEVFQKGYYLKDKVIRPSLVKVAK |
| 1599 | sp|A3NYX9|GRPE\_BURP0 | MENTQENPTDQTTEETGREAQAAEPAAQAAENAAPAAEAALAEAQAKIAELQESFLRAKAETENVRRRAQDDVAKAHKFAIEGFAENLLPVLDSLEAAVGDTSGDLAKVREGVELTLRQLTSALEKGRVAALNPVGEKFDPHLHQAISMVPADQEPNTVVAVLQKGYTIADRVLRPALVTVAQPK |
| 1600 | sp|A7NCM8|GRPE\_FRATF | MSKQEKSNVEDKSLDIETAAQVETAQESASGALEELSVEEQLERAKDTIKELEDSCDQFKDEALRAKAEMENIRKRAERDVSNARKFGIEKFAKELLPVIDSIEQALKHEVKLEEAIAMKEGIELTAKMLVDILKKNGVEELDPKGEKFDPNLHEAMAMIPNPEFEDNTIFDVFQKGYMLNGRIVRAAKVVIVKN |
| 1601 | sp|Q1R8B1|GRPE\_ECOUT | MSSKEQKTPEGQAPEEIIMDQHEEIEAVEPEASAEQVDPRDEKIANLEAQLAEAQTRERDGILRVKAEMENLRRRTELDIEKAHKFALEKFINELLPVIDSLDRALEVADKANPDMSAMVEGIELTLKSMLDVVRKFGVEVIAETNVPLDPNVHQAIAMVESDDVAPGNVLGIMQKGYTLNGRTIRAAMVTVAKAKD |
| 1602 | sp|A4VT28|GRPE\_STRSY | MSEEIKNEEIVEEVEATEEVVETPEKSELDLANERAEEFENKYLRAHAEMQNIQRRANEERQTIQRYRSQDLAKKILPSLDNLERALQVEGLTEDVKKGLEMVQESLIQALKEEGVEEVATDVFDPNLHMAIQTVPATDDCPAEHIAQVFQKGYKLHERLLRPAMVVVSE |
| 1603 | sp|B1AJ46|GRPE\_UREP2 | MSKNNENIKHQNNDKVNNQVDKKETKNHNKQEFKYKELYEHELKKNKELQNINTLLKDKNQQLEEQISQLNQDFIKQLETKAKQAQQILEQKVNELEARHEAKVNDAVFKIFKFKMEPLLDAINHFTKIVNQNYDDPKIQAFIEGFKMFSQNMIDGLDNLKITKISPQVNDSLNDEIMEVFEVVENTNKPSMHVVEVISDGFKYNDKVIKFAVVKVAK |
| 1604 | sp|B8ZLY8|GRPE\_STRPJ | MAQDIKNEEVEEVQEEEVVETAEETTPEKSELDLANERADEFENKYLRAHAEMQNIQRRANEERQNLQRYRSQDLAKAILPSLDNLERALAVEGLTDDVKKGLGMVQESLIHALKEEGIEEIAADGEFDHNYHMAIQTLPADDEHPVDTIAQVFQKGYKLHDRILRPAMVVVYN |
| 1605 | sp|Q7MU00|GRPE\_PORGI | MNKQKNNRERTPQPEQDTERDEQLTNSHENDIDSAPAAEENDKVADPVEQLTAQLAALNDTHLRLMAEYDNYRKRTLKEKSELIRNGGEKVLVDLLPVIDDFERALSNLGDMSEPAAIKEGVELIYSKFMDYLQKQGVKKIETADLPFDADLCDAVAMIPAPSAEQKGKVIDCVKTGYTLNDKVIRHAHVVVGE |
| 1606 | sp|Q21X08|GRPE\_RHOFT | MSETNPNQTKPPATGYQSTEEMVAAQGAYESDALSRAQADLAELQAKSAELADQYLRAKAEADNARRRAEDEISKARKFAVEAFAESLLPVADSLEAGLIIKDATIDHLREGTQATLRQLLAALERNKVIPINPQPGTTKFDPHQHQAISVVPSEFDANIVVTVLQKGYAIADRVLRPALVTVAAPK |
| 1607 | sp|C3K276|GRPE\_PSEFS | MADEQTQDTQTPDANSAVGDELATRVQVLEEQLAAAQDQSLRVAADLQNVRRRAEQDVEKAHKFALEKFASDLLPIIDSLERGLELSNPDDENIRPMREGIELTLKMFQDTLKRYQLEAIDPVGGEPFNAEHHQAMAMQESHDLEPNSVLKVFQKGYQLNGRLLRPAMVVVSKAPAPVSPSIDEQA |
| 1608 | sp|A6WVA7|GRPE\_OCHA4 | MADEKNKSQNPDLEQRDINNPRDREALNRAADDFLKARKAEARAEVAEDEAEAAVDETANRIAMLEADNGELKDQLLRAAAEMENLRKRTQRDVQDARTYAVTNFARDMLSVSDNLRRALDAIPADALATDASLKSLADGVEMTERAMLQALERHGVKKLEPEGEKFDPNFHQAMFEVPNPDLPNNTVVQVVQDGYAIGDRVLRPAMVGVSKGGPKATADNGASEGNG |
| 1609 | sp|Q1RIX7|GRPE\_RICBR | MTDNNIENKEEEIINDIAEEVENTEIADLKAQIEELKDKLIRASAEIDNTRKRLEKARDEARDYAITTFAKELLNVSDNLSRALEHKPLDASVEVTNIIAGVQMTKDELDKVFHKHHIEEIKPEIGSTFDYNLHNAISQIEHPDHEPNSVINIMQVGYRIKDRLLRPATVQVTKKT |
| 1610 | sp|P80871|GS14\_BACSU | MKILVLAVHPHMETSVVNKAWAEELSKHDNITVRDLYKEYPDEAIDVAKEQQLCEEYDRIVFQFPLYWYSSPPLLKKWQDLVLTYGWAFGSEGNALHGKELMLAVSTGSEAEKYQAGGANHYSISELLKPFQATSNLIGMKYLPPYVFYGVNYAAAEDISHSAKRLAEYIQQPFV |
| 1611 | sp|A8H8G6|HFQ\_SHEPA | MAKGQSLQDPFLNALRRERVPVSIYLVNGIKLQGQVESFDQFVILLKNTVSQMVYKHAISTVVPSRPFNVSNHQATNAQAGYNAQHDDGDEK |
| 1612 | sp|P80874|GS69\_BACSU | MEYTSIADTGIEASRIGLGTWAIGGTMWGGTDEKTSIETIRAALDQGITLIDTAPAYGFGQSEEIVGKAIKEYGKRDQVILATKTALDWKNNQLFRHANRARIVEEVENSLKRLQTDYIDLYQVHWPDPLVPIEETAEVMKELYDAGKIRAIGVSNFSIEQMDTFRAVAPLHTIQPPYNLFEREMEESVLPYAKDNKITTLLYGSLCRGLLTGKMTEEYTFEGDDLRNHDPKFQKPRFKEYLSAVNQLDKLAKTRYGKSVIHLAVRWILDQPGADIALWGARKPGQLEALSEITGWTLNSEDQKDINTILENTISDPVGPEFMAPPTREEI |
| 1613 | sp|Q39FR4|HFQ\_BURL3 | MSNKGQLLQDPFLNALRKEHVPVSIYLVNGIKLQGNIESFDQYVVLLRNTVTQMVYKHAISTVVPARPVNFHPDAEASS |
| 1614 | sp|Q9JLR9|HIG1A\_MOUSE | MSTNTDLSLSSYDEGQGSKFIRKAKETPFVPIGMAGFAAIVAYGLYKLKSRGNTKMSIHLIHMRVAAQGFVVGAMTLGMGYSMYQEFWANPKPKP |
| 1615 | sp|C0MFZ1|HSLO\_STRS7 | MDKLIKTISASGAFRAYVLDCTETVRYAQERHHTLSSSTVALGRTLIANQILAANQKGDSKVTVKVIGDSSFGHIISVADTKGHVKGYIQNPGVDIKKTATGEVLVGPFMGQGHFVTITDYGTGNPYTSTTPLITGEIGEDLAYYLTESEQTPSAVGLNVLLDQEDKVKVAGGFMLQVLPGASDEEISHYEKRIQEMPAISTLLASENHIDALLAAIYGEEPYKRLAEEQLSFQCDCSKERFASALMNLPTADLQAMRDEDQGAEIVCQFCGIKYQFTEADLEVLINDKA |
| 1616 | sp|P30221|HSP11\_SOLLC | MSLIPRIFGDRRSSSMFDPFSIDVFDPFRELGFPSTNSGESSAFANTRIDWKETPEPHVFKVDLPGLKKEEVKVEVEEDRVLQISGERNVEKEDKNDKWHRMERSSGKFMRRFRLPENAKMDQVKASMENGVLTVTVPKEEVKKPEVKSIEISG |
| 1617 | sp|Q1LTT5|HSLU\_BAUCH | MSHMTPSEIVNELDDYIIGQHNAKRAVAIALRNRWRRMQLDETLRHEVTPKNILMIGPTGVGKTEIARRLAKLANAPFIKVEATKFTEVGYVGKEVDSIIRDLTDAAVKMVRLQSMEKNRFRAEERAEERILDVLIPQPTPNNWDKIEENNSSEPSSTRQHFRKKLREGQLNEKEIEINLAATPIGVEIMAPPGMEEMTNQLQSMFKNLAGQKQKSRKMKIKEAMKLLIEEEAAKLVNQEKIKEKAIEAVEQNGIVFIDEIDKICKRGDVSGPDVSSEGVQRDLLPLVEGCTVSTKHGMVKTDYILFIASGAFQVASPSDLIPELQGRLPIRVELEALTPKDFQLILTEPNASLTMQYIALMATEGVSISFTEDGIKRIAETAWQVNERTENIGARRLHTILELLMEDISYDASEWHGKTISIDADYVRSHLDDLVSDEDFSRFIL |
| 1618 | sp|Q5E6Q9|HTPG\_ALIF1 | MSEQTANKETRGFQSEVKQLLHLMIHSLYSNKEIFLRELISNASDASDKLRFKALSNGDLYEGNADLGVKLSFNEAANTLTISDNGIGMSREDVIEHLGTIAKSGTADFFSKLSEDQSKDSQLIGQFGVGFYSAFIVADAVTVRTRAAGSEKDQGVQWHSEGEGDYTIEDITKESRGTDIILHMREEGKEFLNEWRLKEVIGKYSDHIGIPVSIWTVEKDEEGKDKEGKWEQVNKAQALWTRSKSDIEDAEYQEFYKHVSHDFADPLTWSHNKVEGKNDYTSLLYIPAKAPFDMMNRDHKSGLKLYVQRVFIMDDAEQFMPTYLRFVKGLIDSNDLPLNVSREILQDNKVTQSLRSACTKRVLGMLEKMAKKDDEKYLTFWKQFGQVLKEGLAEDLANKEKIAGLLRFATTEKDSSEQALGLAGYVERMKEEQDKIFYLTADSYAAAKNSPHLEQFKAKGIEVVLMYDRIDEWLMSYLTEFDGKQFQSITKAGLDLSKFEDEAEKEKHKETEEEFKSVVERTKSYLGDRVKEVRTTFKLATTPAVVVTDDFEMGTQMAKLLEAAGQAAPEVKYIFEINPDHALVKQMADEADEEAFGRWVEMLLGQAMLAERGSLEDPSQFLSAMNQLLAK |
| 1619 | sp|Q8A9B8|HTPG\_BACTN | MQKGNIGVTTENIFPIIKKFLYSDHEIFLRELVSNAVDATQKLNTLASIGEFKGELGDLTIHVELGKDTITISDRGIGLTAEEIEKYINQIAFSGANDFLEKYKDDANAIIGHFGLGFYSAFMVAKKVEIITKSYRDEAQAIKWTCDGSPEFTIEEVDKADRGSDIILYIDDDCKEFLEEARVSELLKKYCSFLPVPIAFGKKKEWKDGKQIETTEDNIINDTTPLWTRKPSELSDEDYKSFYTKLYPMSDEPLFWIHLNVDYPFHLTGILYFPKVKSNIELNKNKIQLYCNQVYVTDSVEGIVPDFLTLLHGVIDSPDIPLNVSRSYLQSDSNVKKISTYITKKVSDRLQSIFKNDRKQFEEKWNDLKIFINYGMLTQEDFYEKAQKFALFTDTDNKHYTFEEYQTLIKDNQTDKDGNLIYLYANNKDEQFSYIEAATNKGYNVLLMDGQLDVAMVSMLEQKFEKSRFTRVDSDVIDNLIIKEDKKNETLEGEKQEAITTAFKSQLPKMDKVEFNVMTQALGDNSAPVMITQSEYMRRMKEMANIQAGMSFYGEMPDMFNLVLNSDHKLIKQVLDEEEAACHPEVAPIQTEMNSVSKRRNELKDSQKDKKEEDIPTAEKDELNELDKKWDELKNKKEGIFAGYASNNKVIRQLIDLALLQNNMLKGEALNNFVKRSIELI |
| 1620 | sp|Q1QUL4|HTPG\_CHRSD | MTTAAHAETLGFQTEVKQLLQLMIHSLYSNREIFLRELISNAADACDKLRYEALENDTLYGDDSELRIEIEHDAEAGTVTVRDNGIGMSRDEVIQNLGTIARSGTAEFLQQLSGEKQKDAKLIGQFGVGFYSGFIVSDEITVRTRRVDQEQGVQWHSRGEGEFDIADIDKPERGTEIVLHLKEDAKEFADAERLKHLVRTYSDHIEVPVRMPKVEKAHDEEGNEIEGSETVTWETVNEATALWVRPKEEISDDEYKAFYKHVAHDFSDPLTWSHNKVEGKLEYTSLLYVPGRAPFDLYQREGVRGLKLYVQRVFIMDDAEQFLPLYLRFIKGVVDSKDLSLNVSRELLQKDPQVDKLKSALTKRSLDMLKKLAKDEEAYQTFWNAFGNVLKEGPAEDFANRDKIADLLRFSSTQTDSATQDQSLAGYVSRMKEGQQKIYYLVADGFNAASHSPHLEIFRKKGIEVLLLHDRIDEWLMSHLTEYDGKAFADVAKGDLDLDDMADEEEKKAQEETAKAKAPLIERVKTALGDEVQEVRITHRLTDSPACVVLSEHDMGYQMRRLMEAAGQPLPEVKPILELNPEHSLVARLEGADDSVFNDLARILLDQAIIAEGGHLEDPATYVQRLNKLLSH |
| 1621 | sp|Q0A738|HTPG\_ALKEH | MATDAHKETLEFQAEVQQLLHLMIHSLYSNKDIFLRELISNASDAIDKLRFQSLQDESLLEGEGDLRIRVSVDKDARTITVADNGIGMTRDEVAENLGTIARSGTKAFLDQLTGDQQKDAKLIGQFGVGFYSAFVVAEHVTVHTRKAGLGAEHGVRWSSDGKGAYTLENEEVAERGTRVVLTLPESQSEYLDDWRLKGIIRRYSDHIDVPIQMPAQAEDKDEPEDEAEKAEAAETWETVNNTNALWMRPKSEISDDDYKAFYKHVAHDFDDPMVWLHNHVEGRQSYTSLLYIPKNPPFDLYEREPAHGIKLYVRRVFIMEDTEKLMPRYLRFVRGLVDSDDLPLNVSRELLQHNPLLDKIRSASVKRILDRLEKMAKNEPEQYAEFYGNFGKVLKEGVAEDFANRERIAKLLRFSTTQDENETPDVSLDDYIARMKEGQEAIYYVTAESFNAARNSPHLEVFRKKGVEVLLLPDPVDEWVITHLNEYDGKPLKSVAKGGLDLGELEDQAEKKAAEEATESHKDLLEKLKGALEDKVSEVRVSTRLTDSPACLVVGEYDFGMGMQRLLKAAGHAMPQGKPALEINIDHPIVQRMDTGLDDARFSDWAAVLYDQALLTEGGQLEDPAAFVKRVNALLTEQARAGEAKSNAARGD |
| 1622 | sp|Q057D9|HTPG\_BUCCC | MNNKNKITHTFQSEVKELLHLMIHSLYSNKEIFLRELISNASDAIEKIRFEKLYSLKKYRENLYTPKIKISIKKDEKKIIISDNGIGMTYKEVIKNLGTIAKSGTKSFLNKIQNIEKKEKNDFIGQFGVGFYSSFIVSNSVSVYTRHAKEKKNIGTLWISEGKGKYSVEKISKEEHGTIVELSLKSSEKEFLEIWKIKNIIKKYSDHISIPIEIENYDEKTKTISWEKINKAQALWTINKNNITKKKYQDFYKYLTNDSEKPLLWSHNKVEGTQEYINLLYIPKKATWDIWHQENKHGLKLYVKHVFIMDEATQFLPNYLRFVKGIIDSQDLPLNISREILQDSSITHILRKSLTKRILNILNNLSENNIKKYQKFWNVFGIIIKEGIAEDSENKTILSNLLRFSSIKKGNIEQTLSLNEYIKNMKKNQKKIYFITSDSYKSALNSPNLEIFKENDIDVLILSEKIDEWMMNYLTEFNNIKFQSVSKLDDTIDSLLLKKNVSNEKNTFNEFIEKTKKILKNKVKDVKITYRLKNTPAIVLTDTNDMSTQMAKIFSAAGQPIPKIKYILEINPLHPLIKKIEKIKNEKDFSNWIKIIFDQSILSEKGSLENPHKFIQRINNFFIS |
| 1623 | sp|Q00043|HSP70\_AJECA | MAPAVGIDLGTTYSCVGIFRDDRIEIIANDQGNRTTPSFVAFTDTERLIGDAAKNQVAMNPANTVFDAKRLIGRKFADPEVQADMKHFPFKITDKGGKPVIQVEFKGETKEFTPEEISSMVLTKMRETAEAYLGGTVNNAVVTVPAYFNDSQRQATKDAGLIAGLNVLRIINEPTAAAIAYGLDKKADGERNVLIFDLGGGTFDVSLLTIEEGIFEVKSTAGDTHLGGEDFDNRLVNHFVSEFKRKFKKISPAERARALRRSPTACERAKRTLSSAAQTSIEIDSLYEGIDFYTSITRARFEELCQDLFRSTMEPVERVLRDAKIDKSSVHEIVLVGGSTRIPRIQKLVSDFFNGKEPNKSINPDEAVAYGAAVQAAILSGDTSSKSTNEILLLDVAPLSLGIETAGGVMTPLIKRNTTIPTKKSETFSTFSDNQPGVLIQVFEGERARTKDNNLLGKFELTGIPRARGVPQIEVTFDVDANGIMNVSALEKGTRKTNKIVITNDKGRLSKEEIERMLAEAEKYKAEDEAEASRIRPKNGLESYAYSLRNSLRHSKVDEKLEAGDKEKLKSEIDKTVQWLDENQTATKEEYESQQKELEAVANPIMMKFYAGGEGAPGGFPGAGGPGGFPGGPGAGHASGGGDDGPTVEEVDLKFPMLPLPWQLSVRKMHRPFFLFLLFLIFLIFLILFLFYFFLPVRFNESCFS |
| 1624 | sp|A0KBG3|HSLU\_BURCH | MSTMTPAEIVSELDKHIIGQAKAKKAVAVALRNRWRRQQVAEPLRQEITPKNILMIGPTGVGKTEIARRLAKLADAPFIKIEATKFTEVGYVGRDVDSIVRDLIEISVKQTREAEMRKVRSKATDQAEDRILDILLPQPRAVGFGGNAEHANDDNNATRQTFRKRLREGQLDDKEVELDLEQPSVGMDIMAPPGMEEMTEQIRSMFSNLGSGKKQRRKVKIKEALKLLTDEEAAKMLNEEEVKTKAVQNVEQNGIVFLDEIDKITSRNNEGSGGEVSRQGVQRDLLPLVEGTTVNTKYGMVKTDHILFIASGAFHLAKPSDLIPELQGRFPIRVELDSLSVEDFEAILDATDASLVKQYQALLATEDVQLEFAADGIRRLAEIAFAVNEKTENIGARRLYTVIEKLLEEVSFSAGNHAGERVTIDAKYVDRALGEVAQDEDLSRYVL |
| 1625 | sp|Q2VZ28|HTPG\_MAGSA | MAEEKRQFQAEVGKLLDIVVHSLYSNKEIFLRELISNASDSCDRLRYGAITEPDLLDGDSEFRIRLVPDKDAGTLTIIDNGQGMSHDELIANLGTIAKSGTSEFLARLTGDAKKDVSLIGQFGVGFYSAFMVAEEVTVTSRKAGEAKGWKWVSDGKGEFTVSPAEDAARGAAITLKLREGETEFLDAFRLKSIVKRYSDHIAIPVTLKDADKDEETINSASALWTRSKSEITPEQYKEFYHHVAHAFDEPWSTLHYKAEGAIEYTGLLFIPSSKPLDIFHPDRKQHVKLYVRRVFITDDCEELLPPYLRFVRGVVDSQDLPLNVSREMLQHNPVLSKIRTGLVKRILGELKKKSEDAEGKYDEFWAAFGPVLKEGIYEDFERKTDILELCRFRSTHGDGLTTLADYVARMKDGQDAIYTITGDDLDQLKKSPQLEGFAAKGVEVLLLTDPIDEFWVSAVRSYAEKDFRSVAAAGADLSKVKAPEGAEDKKADEAPADELTTLIEAVKLALGERVKDVRPSERLTESAVCLVAAEGEMSMHLEKMLRAHNQAPGERARILEINPRHALIKGLAARVKAGGTDAGLEDAAFLLLDQARIIEGEPPADPAAFARRMVSVMEKGLLG |
| 1626 | sp|Q6K7E9|HS186\_ORYSJ | MTELFDTAVTSLLHLPEVLDRLGAAAGDRRSAGDHAHHAAHGHGQHRISGIGGGAPVDIMETPGEYAFVLDVPGLSKSDIQVTLEEDRVLVMKSSNGAGNGKRKREEEEGECKYIRLERRASPRAFARKFRLPEDADTGGISARCENGVLTVTVKKRPPPEKKTKSVQVTIA |
| 1627 | sp|B7NFN0|HSLU\_ECOLU | MSEMTPREIVSELDKHIIGQDNAKRSVAIALRNRWRRMQLNEELRHEVTPKNILMIGPTGVGKTEIARRLAKLANAPFIKVEATKFTEVGYVGKEVDSIIRDLTDAAVKMVRVQAIEKNRYRAEELAEERILDVLIPPAKNNWGQTEQQQEPSAARQAFRKKLREGQLDDKEIEIDLAAAPMGVEIMAPPGMEEMTSQLQSMFQNLGGQKQKARKLKIKDAMKLLIEEEAAKLVNPEELKQDAIDAVEQHGIVFIDEIDKICKRGESSGPDVSREGVQRDLLPLVEGCTVSTKHGMVKTDHILFIASGAFQIAKPSDLIPELQGRLPIRVELQALTTSDFERILTEPNASITVQYKALMATEGVNIEFTDSGIKRIAEAAWQVNESTENIGARRLHTVLERLMEEISYDASDLSGQTITIDADYVSKHLDALVADEDLSRFIL |
| 1628 | sp|P11890|HS23C\_OXYRB | MASMALRRLASRNLVSGGIFRPLSVSRSFNTNAQMGRVDHDHELDDRSNRAPISRRGDFPASFFSDVFDPFRATRSVGQLMNLMDQLMENPFMAASRGSGRAMRRGWDVREDEEALELKVDMPGLAKEDVKVSVEDNTLIIKSEAEKETEEEEQRRRYSSRIELTPNLYKIDGIKAEMKNGVLKVTVPKIKEEEKKDVFQVMVD |
| 1629 | sp|Q883Y9|HTPG\_PSESM | MSVETQKETLGFQTEVKQLLHLMIHSLYSNKEIFLRELISNASDAVDKLRFEALSRPELLEGGAELKIRVSFDKDAKTVTLEDNGIGMSREDVITHLGTIAKSGTADFMKNLSGDQKKDSHLIGQFGVGFYSAFIVADQVEVFSRRAGSPSSEGVHWSSKGEGEFEVANVDKAERGTRIVLHLKNGEEEFADGYRLRNIIKKYSDHIALPIELPKEQAPAAEGEEAPAQEWETVNRASALWTRPRTEVKDEEYQEFYKHVAHDYENPLSWSHNKVEGKLEYTSLLYVPARAPFDLYQREAPRGLKLYVQRVFVMDQAESFLPLYMRFVKGVVDSNDLSLNVSREILQKDPIIDSMKSALTKRVLDMLEKLAKNEPEQYKGFWKNFGQVLKEGPAEDFANKEKIAGLLRFASTSDDSGEQSVSLADYLARGKEGQDKIYYLTGESYAQVRNSPHLEVFRKKGIEVLLLTDRIDEWLMSYLSDFDGKNFVDVARGDLDLGNLDSEEDKKAQEEIAKDKEGLIERLKAALGESVSEVRVSHRLTDSPAILAIGEQDMGLQMRQILEASGQKVPDSKPIFEFNPAHPLIGKLDAEQSEERFGDLSHILFDQAALAAGDSLKDPAAYVRRLNKLLVELSV |
| 1630 | sp|B7MI63|HSLU\_ECO45 | MSEMTPREIVSELDKHIIGQDNAKRSVAIALRNRWRRMQLNEELRHEVTPKNILMIGPTGVGKTEIARRLAKLANAPFIKVEATKFTEVGYVGKEVDSIIRDLTDAAVKMVRVQAIEKNRYRAEELAEERILDVLIPPAKNNWGQTEQQQEPSAARQAFRKKLREGQLDDKEIEIDLAAAPMGVEIMAPPGMEEMTSQLQSMFQNLGGQKQKARKLKIKDAMKLLIEEEAAKLVNPEELKQDAIDAVEQHGIVFIDEIDKICKRGESSGPDVSREGVQRDLLPLVEGCTVSTKHGMVKTDHILFIASGAFQIAKPSDLIPELQGRLPIRVELQALTTSDFERILTEPNASITVQYKALMATEGVNIEFTDSGIKRIAEAAWQVNESTENIGARRLHTVLERLMEEISYDASDLSGQTITIDADYVSKHLDALVADEDLSRFIL |
| 1631 | sp|A4Y7T7|HTPG\_SHEPC | MSQQETHGFQTEVKQLLHLMIHSLYSNKEIFLRELVSNAADAADKLRYLALTNDALYEGDGELRVRISADKDKGTVTIEDNGVGMTRDGVIEHLGTIAKSGTAEFFKNLSGEASKDSQLIGQFGVGFYSAFIVAKKVTVRTRAAGHKADEAVLWESEGEGSFTVETITKASRGTEITLHLRDEEKEFADDWRLRSIITKYSDHISVPVEMWQEGTPERDGPDGEKIPATEGYWKVMNKATALWMRNKSEISDEEYQEFYKHISHDYTDALLWSHNRVEGKQEYTNLLYIPSKAPWDLWNRDRKHGLKLFVQRVFIMDDAEQFMPSYLRFVQGLIDSNDLPLNVSREILQDNHITKAMRTGITKRVLGMLEKLAKDDAEKYQQFWAEFGQVLKEGPAEDFANRERIAGLLRFASTHTGSAAPTVSLDDYISRMKEGQTKIYYIVADSYDAAANSPHLELLRKKGIEVLLMSERIDEWLINHLTEYKEKQLHSVTRGELELGELEDAAEKEAQEKLAEESAPLIERIKAALGTKVADVKVTSRLTDTPACVVTGEGEMSTQMIKLMQAAGQPVPEVKPTFEVNPAHPLVSRLNDLQDETAFADWSNLLLQQAQLSEKGSLADPSAFIKLMNQMLLANMK |
| 1632 | sp|A3D5M8|HTPG\_SHEB5 | MSQQETHGFQTEVKQLLHLMIHSLYSNKEIFLRELVSNAADAADKLRYLALTNDALYEGDGELRVRISADKEKGTVTIEDNGVGMTRDGVIEHLGTIAKSGTADFFKNLSGESSKDSQLIGQFGVGFYSAFIVAKKVTVRTRAAGHKADEAVLWESEGEGNFTVDTITKASRGTEITLHLRDEEKEFADDWRLRSIITKYSDHISVPVEMWQEGTPESDGADGEKIPATEGQWKVMNKATALWMRSKADISDEEYQEFYKHISHDYTDALLWSHNRVEGKQEYTNLLYIPAKAPWDMWNRDRKHGLKLFVQRVFIMDDAEQFMPSYLRFVQGLIDSNDLPLNVSREILQDNHVTKAMRTGITKRVLGMLEKLAKDDAEKYQQFWAEFGQVLKEGPAEDFANRERIAGLLRFASTHTGSAAPTVSLDDYISRMKEGQTKIYYIVADSHEAAANSPHLELLRKKGIEVLLMSERIDEWLINHLTEYKEKQLHSVTRGDLELGELEDAAEKEAQEKLEQESVALVERIKAALGSSVADVKVTSRLTDTPACVVAGDGEMSTQMIKLMQAAGQPVPEVKPTFEINPAHPLVSRLNDLQDETAFADWSNLLLQQAQLSEKGSLADPSAFIKLMNQMLLANMK |
| 1633 | sp|Q2TFN9|HSP74\_CANLF | MSVVGIDLGFQSCYVAVARAGGIETIANEYSDRCTPACISFGPKNRSIGAAAKSQVISNAKNTVQGFKRFHGRAFSDPFVEAEKSNLAYDIVQLPTGLTGIKVKYMEEERNFTTEQVTAMLLSKLKETAESVLKKPVVDCVVSVPCFYTDAERRSVMDATQIAGLNCLRLMNETTAVALAYGIYKQDLPALEEKPRNVVFVDMGHSSYQVSVCAFNRGKLKVLATAFDTTLGGRKFDEVLVNHFCEEFGKKYKLDIKSKIRALLRLSQECEKLKKLMSANASDLPLSIECFMNDVDVSGTMNRGKFLEMCDDLLARVEPPLRSVLEQAKLRKEDIYAVEIVGGATRIPAVKEKISKFFGKELSTTLNADEAVTRGCALQCAILSPAFKVREFSITDVVPYSISLRWNSPAEEGSSDCEVFTKNHSAPFSKVLTFYRKEPFTLEAYYSSPQDLPYPDPAIAQFLVQKVTPQSDGSSSKVKVKVRVNVHGIFSVSSASLVEVLKFEENEEPMETDQNAKEEEKMQVDQEEPHAEEQQQQTPAENKAESEEMETSQAASKDKKMDQPPQAKKAKVKTSTVDLPIENQLLWQIDREMLNLYIENEGKMIMQDKLKKERNDAKNAVEEYVYEMRDKLSGEYEKFVSEDDRNSFTLKLEDTENWLYEDGEDQPKQVYVDKLAELKNLGQPIKMRFQESEERPKLFEELGKQIQQYMKVISSFKNKEDQYDHLDAADMLKVEKSTNEAMEWMNNKLNLQNKQSLTVDPVVKAKEIEAKIKELMSVCGPIISKPKPKVEPPKEEQKNAEQNGPVDGQGDSPGPQAAEQGTDTAVPSDSDKKLPEMDID |
| 1634 | sp|Q1Q978|HTPG\_PSYCK | MSELNPVDNQKVDSINVDKSSPELKKHTFEAEVAQLLHLVTHSLYSNSDIFVRELVSNASDACDKLRFEATNDDSLYEDDGELKIRIAVDEDAKTITFTDNGIGMNEADAIENLGTIAKSGTKAFLDKLSESQKQDGQLIGQFGVGFYSGFIVADTISVETRKAGEPADKGVRWVSDGTGSFTVEPITKETRGTAITLHLKEQYSEGEESYLDRGKIKQLVNKYSDHISLPIQMRKEVWQEDEVEEGSDTPANGQMVLTDEWETINKASALWTRSASEIEDEEYIDFYKNITYDMDAPLAWTHNRVEGRVQYTQLLYIPKKAPVDLYTREQQHGLKLYVKRVFIMDEAEQLLPMYLRFVKGVIDSADLPLNVSRELLQESRDVKSIRDGNARRILTLLASLANSEDSDKQEKFAQFYAEFGDVIKEGVGEDMGNQERIAKLLRYATSTQDSVTTSFEDYKARMKEGQKAIYYLTADNLAAAKNSPQLELFKKKGIEVILMTSRVDEWAMNFLTSFDETPLQNIAKGAVDLGDLQDEAEKAEAEKAQETMKPIVDKLKTALGERAKDVKVSTRLVDSPACLVVGEGELSPQMIQMLKQMGQDVPESKPTLEVNPDHPLIKKLESSEQSAEDFDKLAQVIFDQALLADGGQLDDPAAYLRRVNELLMR |
| 1635 | sp|Q3T149|HSPB1\_BOVIN | MAERRVPFSLLRGPSWDPFRDWYPAHSRLFDQAFGLPRLPEEWSQWLSHSGWPGYVRALPAAAIEGPAYNRALSRQLSSGVSEIQQTADRWRVSLDVNHFAPEELTVKTKDGVVEITGKHEERQDEHGYISRCFTRKYTLPPGVDPTLVSSSLSPEGTLTVEAPLPKSATQSAEITIPVTFQARAQLGGPEAGKSEQPENK |
| 1636 | sp|A3MRR3|HSLU\_BURM7 | MSTMTPAEIVSELDKHIIGQAKAKKAVAVALRNRWRRQQVAEPLRQEITPKNILMIGPTGVGKTEIARRLAKLADAPFIKIEATKFTEVGYVGRDVDSIVRDLIEISVKQTRETEMRKVRSKATDLAEDRILDVLLPQPRAVGFGASAEHANDDNNATRQTFRKRLREGQLDDKEIELDIEQPAVGMDIMAPPGMEEMTEQIRSMFSNLGSGKKQRRKVKIREALKLLTDEEAAKMLNDEEVKTKAVQNVEQNGIVFLDEIDKITSRNHEGGGGEVSRQGVQRDLLPLVEGTTINTKYGMVKTDHILFIASGAFHLAKPSDLIPELQGRFPIRVELDSLSVKDFEAILVATDASLVKQYQALLATEDVKLEFADDGIRRLAEIAYAVNEKTENIGARRLYTVIEKLLEEVSFAAGNHAGQSVTIDSAYVDRALGEVSKDEDLSRYVL |
| 1637 | sp|A5F2T9|HTPG\_VIBC3 | MSETATTNKETRGFQSEVKQLLHLMIHSLYSNKEIFLRELISNASDAVDKLRFQALSHPDLYQGDAELGVKLSFDKDKNTLTISDNGIGMTRDEVIENLGTIAKSGTAEFFSKLSQEQSKNSQLIGQFGVGFYSAFIVADAVTVRTRAAGSAPADAVQWYSKGEGEYTVETINKESRGTDIILHLREEGKEFLSEWRLRDVISKYSDHIGIPVYIQTSVMDEEGKATEETKWEQINKAQALWTRAKSEVTDEEYKEFYKHVSHDFADPLVWSHNKVEGKNDYTSLLYIPAKAPWDLFNREHKHGLKLYVQRVFIMDDAAQFMPSYLRFVRGLIDSNDLPLNVSREILQDNKITQSLRQACTKRVLTMLERMASNDADNYQKFWKEFGLVMKEGPAEDFANREKIASLLRFASTHIDSAEQTISLASYVERMKEGQDKIYYLTADSYTAAKNSPHLEQFKSKGIEVILMFDRIDEWLMNYLPEFEGKAFQSITKAGLDLSQFEDEAEKEKHKETEEQFKSVVERLKGYLGSRVKEVRTTFKLANTPAVVVTDDYEMGTQMAKLLAAAGQPVPEVKYILEVNPEHALVKRMADEADEQTFGRWAEVLLGQAMLAERGSMEDPSQFLGAVNQLLAPSH |
| 1638 | sp|Q550E3|HSPGB\_DICDI | MATIFDILNTLNNNNFENCKRQCSTNKSNKTIIDILPPMDVTITNDKLIIETELAGISKDQIEIDIKDSILTIQGERKDLNKQHNNNNNNNNNNNNLVIEKSTSTSSTFR |
| 1639 | sp|A0L3K1|HSLU\_MAGMM | MSEFTPREIVSELDRYIIGQNMAKRAVAIALRNRWRRQRLSAEMREEVYPKNILMIGPTGVGKTEIARRLAKLARAPFIKVEATKFTEVGYVGRDVESIVRDLVEMGITMVTEEAKVKVQFQAEDQAEERLLDILLPLPSTGQGEGSAHFGLFGQMEGSSVKPEPTAQQKESRQKMRKMLREGKLDDREIDIDLKEQRRVPMMEVITPQGMEGINLQDMLGGLMGGRTKTRRVKVGEAMKLLTEEEAGKLVDQDTVQQVAIERVEQSGIVFLDELDKVCARGSETRGGDVSREGVQRDLLPLVEGTTVSTKYGMVKSDHILFIASGAFQLAKPSDLLPELQGRLPIRVELESLGKGEFVRILTEPENALTRQYAALMGVENIELVFTDEGIEALAEIATRVNETAENIGARRLHTVMEKLLDELSFSAPDRGGERVVIDAAYVNRQLSDLAADEDLSRFIL |
| 1640 | sp|Q8CX68|HTPG\_OCEIH | MGKRKFKAESQKLLDMVINSIYSQREVFLRELISNASDAIDKIYYKALTDDSLSFDVDNYYIKITPNKEERTLTVVDTGIGMTKEELENNLGVIAKSGSHTFKSENEIKDGHDIIGQFGVGFYAAFMVADKVEVVTKSIDSDAAFKWESKGSDGYSITEADKQDIGTTITLYIKENQEEENYDEFLDTFTLQQIIKKYSDFIRYPIKMDVTESKLKEGSEDEYEDVVEEQTINTMVPIWKKNKSELTDDDYTNFYQEKRYGFDKPLKHVHINVDGSIRYNAILFIPESAPFNYYTRDYEKGLELYSNGVLIMDKCADLLPDYFSFVKGMVDSEDLSLNISREMLQHDRQLKLIAKNIKKKVKQQLVSLLRDERENYEKFFDAFGQQIKFGVYSDYGQNKDELKDLLLFYSSKEKKLVTLEEYVSCMPEDQKYIYYATGDSRDRIEKLPQTELVADKGYEILYFTDEIDEFAIKMLMNYDEKEFRSVSSGDLGIEEDEKEENEQENNDNAELFTAMKEVLSTKVKDVRASKRLKSHPVVLTADGEISLEMEKIINAMPDDQQIQADKVLEINVNHDIFQSLKAAQGNDDEKFKLYTNLLYNQALLIEGLPINDPVEFTNDICKVMV |
| 1641 | sp|B0BVI6|HTPG\_RICRO | MIQEKKKFDAEVGKILNLMIHSLYSNKEIFMRELISNASDACDKLRYLSQSNSELVAGDSNFKITVKVDKDNGQIIIRDNGIGMNKDDLIENLGTIARSGTANFLKSLSGDSKKDNMLIGQFGVGFYSSFMVADKVTVTSRKAGEDKVHIWESDGLGEYTVSDSDKEFTRGTEIILHIKKEEDTFLDHFRLKHIVKSYSDHIAVPIYFFDEAGNNEIQLNSASALWTRPKSEITEEQYKEFYKSLSYAIDDPWITMHNKNEGAIEFTNLLFIPSSKTFDLFHPDRKRRVKLYIKRVFISDENIDLIPSYLRFLRGVVDSEDLPLNISRESLQHNSVLEKIKNAITKRVLGELRKKKEESPEEYNKFWANFGGALKEGLCEATTNHEKLLEVCIFRSALHNKMISLDEYIANFKEGQSTIYYLSGDNPDKLLSSPQIEGLLSKKIDVLLFTDTVDDFWVNVNSKYKEHAIKSATRSDIDVEQTTSQSEAKNTDSKKSDDEYKLLTDYFKETLGELVKEVKISKKLTSSPACLAVSDAAMDIRMERFLIEQKQIANASAKNLELNPKNKIIEKIFNDLKANNKNNEELVNLIFDQACILEGEPVADTGAFSKRLNDIVQKAIL |
| 1642 | sp|P55063|HS71L\_RAT | MAANKGMAIGIDLGTTYSCVGVFQHGKVEIIANDQGNRTTPSYVAFTDTERLIGDAAKNQVAMNPQNTVFDAKRLIGRKFNDPVVQSDMKLWPFQVINEAGKPKVLVSYKGEKKAFYPEEISSMVLTKMKETAEAFLGHSVTNAVITVPAYFNDSQRQATKDAGVIAGLNVLRIINEPTAAAIAYGLDKGSHGERHVLIFDLGGGTFDVSILTIDDGIFEVKATAGDTHLGGEDFDNRLVSHFVEEFKRKHKKDISQNKRAVRRLRTACERAKRTLSSSTQANLEIDSLYEGIDFYTSITRARFEELCADLFRGTLEPVEKSLRDAKMDKAKIHDIVLVGGSTRIPKVQKLLQDYFNGRDLNKSINPDEAVAYGAAVQAAILMGDKSEKVQDLLLLDVAPLSLGLETAGGVMTVLIKRNSTIPTKQTQIFTTYSDNQPGVLIQVYEGERAMTRDNNLLGRFDLTGIPPAPRGVPQIEVTFDIDANGILNVTAMDKSTGKANKITITNDKGRLSKEEIERMVQEAERYKAEDEGQREKIAAKNALESYAFNMKSAVGDEGLKDKISESDKKKILDKCSEVLSWLEANQLAEKEEFDHKRKELENMCNPIITKLYQSGCTGPTCAPGYTPGRAATGPTIEEVD |
| 1643 | sp|Q9FIT9|HS217\_ARATH | MTSSSGSLKLEIHTDDKTPGKWSVPLGDDVFRRFLSGGGGSEKAVFGEGSLFSPFLFGKYFDPSDAFPLWEFEAEVLLASLRSLGQCRVDWSQTDQAYVLKSDIPVVGKNNVQVYVDINGRVMEISGQWNSNKKAATNSDWRSGRWWEHGYVRRLELPSDADAKYSEAFLSNNDDYSFLEIRIPKINSKNKF |
| 1644 | sp|P84577|HSP90\_POPEU | FLSVTEPSLLGDGGDLEIRVFISDDFDGELFPRGVVDSDDLPLNVSR |
| 1645 | sp|Q39818|HS22M\_SOYBN | MASSLIAKRFLSSSLLSRSLLRPAASASHRSFDTNAMRQYDNRADDHSTDIDRHSERSFPSTARRDDIFLRCVGSIFSDSEFEPGSEHDGPGHGQSVPLRVARDRSWRWSGRGWDARETEDALHLRVDMPGLAKEDVKISVEQNTLIIKGEGAKEGDEEESARRYTSRIDLPDKLYKIDQIRAEMKNGVLKVVVPKMKEEERKDVISVKVE |
| 1646 | sp|P31082|HSP7S\_CUCMA | QKVVGIDLGTTNSAVAAMEGGKPTIVTNAEGQRT |
| 1647 | sp|Q1QZZ7|HSLU\_CHRSD | MTQMTPREIVHALDQYIIGQQEAKRSVAIALRNRWRRMQLDDSLRGEVVPKNILMIGPTGVGKTEIARRLAKLAGAPFIKVEATKFTEVGYVGRDVESIIRDLVEMAMKMVREQAKEEVAHKAEDATEERILDALLPRPRGSEYDHARDESSTRQTFRKKLREGQLDDKEIDIEITPQGGGFDISAPPGMEEMTSQLQSMFSNMGKQKSETRRVTVEEARRLLHDEEAAKLVNEEQIKHRAIEAVEQNGIVFLDEIDKVAKRGDSGSGGDVSREGVQRDLLPLIEGSTVSTKHGMVKTDHILFIASGAFHLSKPSDLIPELQGRLPIRVELQALTPDDFKRILTEPSAALTKQYQALLATDGLEVNFTDEGIARIAEIAWQVNDGTENIGARRLHTVMERLLEEPSFQGGDMASPLTIDAAYVDEQLGELATDEDLSRYIL |
| 1648 | sp|Q9XIE3|HS17A\_ARATH | MSLIPSFFGNNRRINNNIFDPFSLDVWDPFKELQFPSSSSSAIANARVDWKETAEAHVFKADLPGMKKEEVKVEIEDDSVLKISGERHVEKEEKQDTWHRVERSSGGFSRKFRLPENVKMDQVKASMENGVLTVTVPKVETNKKKAQVKSIDISG |
| 1649 | sp|Q4U0F3|HS71B\_BOSMU | MAKNTAIGIDLGTTYSCVGVFQHGKVEIIANDQGNRTTPSYVAFTDTERLIGDAAKNQVALNPQNTVFDAKRLIGRKFGDPVVQSDMKHWPFRVINDGDKPKVQVSYKGETKAFYPEEISSMVLTKMKEIAEAYLGHPVTNAVITVPAYFNDSQRQATKDAGVIAGLNVLRIINEPTAAAIAYGLDRTGKGERNVLIFDLGGGTFDVSILTIDDGIFEVEATAGDTHLGGEDFDNRLVNHFVEEFKRKHKKDISQNKRAVRRLRTACERAKRTLSSSTQASLEIDSLFEGIDFYTSITRARFEELCSDLFRSTLEPVEKALRDAKLDKAQIHDLVLVGGSTRIPKVQKLLQDFFNGRDLNKSINPDEAVAYGAAVQAAILMGDKSENVQDLLLLDVAPLSLGLETAGGVMTALIKRNSTIPTKQTQIFTTYSDNQPGVLIQVYEGERAMTRDNNLLGRFELSGIPPAPRGVPQIEVTFDIDANGILNVTATDKSTGKANKITITNDKGRLSKEEIERMVQEAEKYKAEDEVQRERVSAKNALESYAFNMKSAVEDEGLKGKISEADKKKVLDKCQEVISWLDANTLAEKDEFEHKRKELEQVCNPIISRLYQGAGGPGAGGFGAQAPKGGSGPGPTIEEVD |
| 1650 | sp|P09435|HSP73\_YEAST | MSRAVGIDLGTTYSCVAHFSNDRVEIIANDQGNRTTPSYVAFTDTERLIGDAAKNQAAINPHNTVFDAKRLIGRKFDDPEVTTDAKHFPFKVISRDGKPVVQVEYKGETKTFTPEEISSMVLSKMKETAENYLGTTVNDAVVTVPAYFNDSQRQATKDAGTIAGMNVLRIINEPTAAAIAYGLDKKGRAEHNVLIFDLGGGTFDVSLLSIDEGVFEVKATAGDTHLGGEDFDNRLVNHLATEFKRKTKKDISNNQRSLRRLRTAAERAKRALSSSSQTSIEIDSLFEGMDFYTSLTRARFEELCADLFRSTLEPVEKVLKDSKLDKSQIDEIVLVGGSTRIPKIQKLVSDFFNGKEPNRSINPDEAVAYGAAVQAAILTGDQSTKTQDLLLLDVAPLSLGIETAGGIMTKLIPRNSTIPTKKSETFSTYADNQPGVLIQVFEGERTRTKDNNLLGKFELSGIPPAPRGVPQIDVTFDIDANGILNVSALEKGTGKSNKITITNDKGRLSKDDIDRMVSEAEKYRADDEREAERVQAKNQLESYAFTLKNTINEASFKEKVGEDDAKRLETASQETIDWLDASQAASTDEYKDRQKELEGIANPIMTKFYGAGAGAGPGAGESGGFPGSMPNSGATGGGEDTGPTVEEVD |
| 1651 | sp|A1TYU5|HSLU\_MARHV | MSAMTPREIVHELNKHIVGQEEAKRAVAIALRNRWRRMQLDSSLRDEITPKNILMIGPTGVGKTEIARRLAKLADAPFLKVEATKFTEVGYVGRDVESIIRDLADMAVKMLREQEMKRHEHRALDAAEDRILDALLPPPRDFNEDSQRTNADSSTRQLFRKKLREGELDDKEIEIDLRSSGAGVEIMAPPGMEEMTSQLQSMFSNLSSDKRKTRKMKVADAMKRVKDEEAAKLVNEEEIKQKAIQAVEQNGIVFIDEIDKVAKRSENTSSDVSREGVQRDLLPLIEGSTVSTKYGSIRTDHILFIASGAFHLSKPSDLIPELQGRLPIRVELQALTPDDFKRILTEPDASLVQQYEALMGTEGVKLTFADDAIARIAEVAYKVNETTENIGARRLHTVLERLLESLSYDAGDQVTDTFEVTADYVDEKLGELSEDEDLSRYIL |
| 1652 | sp|Q1QRX6|HSLU\_NITHX | MTHFSPREIVSELDRFIVGQTDAKRAVSIALRNRWRRQQLTGSMREEVLPKNILMIGPTGVGKTEIARRLAKLANAPFIKVEATKFTEVGYVGRDVEQIVRDLVEVAIGQTRERKRKDVQARAQLAAEERVLDALVGANASAATRDSFRRKLRAGDLNDKEIEIETQSSGGAPMFEIPGMPGAQVGAISIGDIFGKMGGRTKTRRLTVVDSYEILVNEESDKLLDSDQLTQEAIAAVENNGIVFLDEIDKICVRDGRSGGDVSREGVQRDLLPLIEGTTVSTKHGAVKTDHILFIASGAFHIAKPSDLLPELQGRLPIRVELDALTRNDMRRILTEPEASLIKQYVALMQTEGVTLDITDDAIDALADIAVAVNSTVENIGARRLQTVMERVLDDISFSAPDRNGETVRIDAGYVQKHIGDLAKNADLSRFIL |
| 1653 | sp|P0AB20|HSPQ\_ECOLI | MIASKFGIGQQVRHSLLGYLGVVVDIDPVYSLSEPSPDELAVNDELRAAPWYHVVMEDDNGLPVHTYLAEAQLSSELQDEHPEQPSMDELAQTIRKQLQAPRLRN |
| 1654 | sp|Q07UQ3|HSLU\_RHOP5 | MTDFSPREIVSELDRFIVGQSDAKRAVSIALRNRWRRLQLEGALREEVLPKNILMIGPTGVGKTEIARRLAKLAGAPFIKVEATKFTEVGYVGRDVEQIIRDLVEVAIAQVREKKRKDVQARAQLAAEERVLDALVGASASPATRDSFRKKLRAGELNDKEIEVETQASSGSPMFEIPGMPGAQIGAVSLGDIFGKMGGRTKTRRLTVADSHEILVNEEADKLLDSDQLTIEAINAVENNGIVFLDEIDKICVRDGRSGGEVSREGVQRDLLPLIEGTTVSTKHGAVKTDHILFIASGAFHIAKPSDLLPELQGRLPIRVELNALSRDDMRRILTEPEVSLIKQYVALLGTEGVTLEFGDDAIDALADVAVQVNSTVENIGARRLQTVMERVLDEISFSAPDRSGETIRIDAEFVQKHVGDLAKNADLSRFIL |
| 1655 | sp|P85932|HSP81\_PSEMZ | ELISNSSDALDKTNNSLTIIDSGIGMTK |
| 1656 | sp|Q84T61|HSFA1\_ORYSJ | MEAAVAAAAAAAGAVTTAVAPPPGAAVSNGVATAPPPFLMKTYEMVDDPATDAVVSWGPGNNSFVVWNTPEFARDLLPKYFKHSNFSSFVRQLNTYGFRKVDPDRWEFANEGFLRGQKHLLKTINRRKPTHGNNQVQQPQLPAAPVPACVEVGKFGMEEEIEMLKRDKNVLMQELVRLRQQQQTTDHQLQTLGKRLQGMEQRQQQMMSFLAKAMHSPGFLAQFVQQNENSRRRIVASNKKRRLPKQDGSLDSESASLDGQIVKYQPMINEAAKAMLRKILKLDSSHRFESMGNSDNFLLENYMPNGQGLDSSSSTRNSGVTLAEVPANSGLPYVATSSGLSAICSTSTPQIQCPVVLDNGIPKEVPNMSAVPSVPKAVAPGPTDINILEFPDLQDIVAEENVDIPGGGFEMPGPEGVFSLPEEGDDSVPIETDEILYNDDTQKLPAIIDSFWEQFLVASPLSVDNDEVDSGVLDQKETQQGNGWTKAENMANLTEQMGLLSSHHTG |
| 1657 | sp|A8F060|HTPG\_RICCK | MTQEKKKFDAEVGKILNLMIHSLYSNKEIFMRELISNASDACDKLRYLSQSNNTLVAGDSNFKITVKIDKNNGQIIIRDNGIGMNKEDLIENLGTIARSGTANFLKNLSGDSKKDNMLIGQFGVGFYSSFMVADKVTVTSRKAGEDKVYVWESDGLGEYIVSNSGKEFTRGTAIVLNIKKEEDNFLDHFRLKHIVKSYSDHIAVPIYFFDENGNSEIQLNSASALWTRPKLEITEEQYKEFYKSLSYTIDDPWITLHNKNEGAIEFTNLLFIPSSKTFDLFHPDRKRRVKLYIKRVFISDENIDLIPSYLRFLRGVVDSEDLPLNISRESLQHNSILDKIKNAITKRVLAELKKKKEESPEDYNKFWSNFGGALKEGLCESTTDHEKLLEVCIFRSALHNKMISLDEYIANFKEGQNTIYYLSGDNPDKLLSSPQIEGLLSKNIDVLLFTDTVDDFWVNVNSEYKGHAIKSATRSDIDVEQTTSSSEEKNTDSKKSDDEYKLLTDYFKETLGDLVKDVKISKKLTSSPACLAVSESAMDIRMERFLIEQKQIANASAKNLELNPKNKIIEKIFNDLKANNKNNKELVNLIFDQACILEGEPVADTGAFSKRLNDIVQKAILSL |
| 1658 | sp|P58477|HTPG\_RHIME | MSEVETSVEKHVFEADVAKLLHLMVHSVYSDKNVFLRELISNAADACEKLRYEAIVAPELLGSDPASRITLTLDEENARLVIEDNGIGMGRDELVESLGTIARSGTRAFMERIEAAQNKDGAQLIGQFGVGFYSAFMVADNVDVVSRRAGTDKAWHWASDGKGSYTVSAVDLADAPARGTRITLHLMDEAKTFTSRWTVERIVKEQSGHVPVPISIVEKPGAEPAQVADGTALWTKQKSEISKDDYTDFYRGVAGQYDEPALTVHFRAEGRHEYTALAFVPGSKPFDLFDPDRKGRMKLYVKRVFITDEAELLPRYLRFVRGLVDTADLPLNVSREMIQESPLLANIRKGLTNRVLTSIEKLAESDSEAFAKIWENFGSVIKEGIYEDFERRGQLLALSRFRTTADDDKPRALSDYVKEMKEGQSAIYYLTGDNLAQLKASPQLEGFRARGIEVLLLTCPVDSFWVTTAPDFDGKPFKSITQGAADLAGIAKNDDAAAASPEAGAAVTDFVSFARETLGEAVSDVRTSDRLTESAVCLVAPEQGPDRQLQKMLQDAGRIEGAPKPVLEINPGHQLIAALATCPSEDKAFREDAVKLLLDQARVLDGDRPEDPRAFAERLSRVFGRALKE |
| 1659 | sp|P0CB32|HS71L\_BOVIN | MAAAKGTAIGIDLGTTYSCVGVFQHGKVEIIANDQGNRTTPSYVAFTDTERLIGDAAKNQVAMNPQNTVFDAKRLIGRKFNDPVVQSDMKLWPFQVINEGGKPKVMVSYKGEKKAFYPEEISSMVLTKMKETAEAFLGYTVTNAVITVPAYFNDSQRQATKDAGVIAGLNVLRIINEPTAAAIAYGLDKAGQGERHVLIFDLGGGTFDVSVLTIDDGIFEVKATAGDTHLGGEDFDNRLVSHFVEEFKRKHKKDISQNKRAVRRLRTACERAKRTLSSSTQANLEIDSLYEGIDFYTSITRARFEELCADLFRGTLEPVEKALRDAKMDKAKIHDIVLVGGSTRIPKVQRLLQDYFNGRDLNKSINPDEAVAYGAAVQAAILMGDKSEKVQDLLLLDVAPLSLGLETAGGVMTVLIKRNSTIPTKQTQIFTTYSDNQPGVLIQVYEGERAMTRDNNLLGRFDLTGIPPAPRGVPQIEVTFDIDANGILNVTAMDKSTGKANKITITNDKGRLSKEEIERMVLDAEKYKAEDEVQREKIAAKNALESYAFNMKSAVSDEGLQGKISESDKKKILSKCNEVLLWLEANQLAEKDEFDHKRKELEQVCNPIITKLYQGGCTGPSCGTGYTPGRAATGPTIEEVD |
| 1660 | sp|B8D8B9|HSCA\_BUCAT | MIFFKKKHDKKLLLGIDLGTTYSLAATVREKSVILLLDKKKRYLLPSVVHYKKNKISVGWKALENITEDPTNTISSVKRLLGRSINFVKKKFPILPYLIEKDIHEGIFFRTNFGNITPIDVSSHILKKLKKRAVLLFNQEIDASVITVPAYFNDFQKKETKKAAVLSGINLIRLLNEPTAAAVAYGLQKLKKGIVLVYDLGGGTFDVSILNLNKGIFEVLATSGDSNLGGDDFDDALAKNIYKKSNLQNRCNDFFQTSLLQIAKSTKLKLTKYEKVEVHFFDWKGYITREEFNLIIIDFIKKTLFICSDLLEEINLSVEQIKEVIMVGGSTRIPLVHTEVSKFFKKDLLKSINPDQVVAIGAAMHVDMLFSSKNNTKNKVILLDVMPLSLGIEVMGGFVEKIIFRNTSLPISKTKEFTTYKDNQTSILIHIVQGERELVKDCISLSRFVLRDIKPQKAGLVRILVTFQVDTDGLIHVKILENYSSKEKKIIIDNNITLKNLNISQILKDSLKHSKDDYYFRVKEEKKIECVRTLEILNKSLKKHLKLISKKELKKIKYTQEKLQKSIQEDDYFSMKNNLQKLDEVSKNFFSLQLKNAIDCSSIKNILKENI |
| 1661 | sp|A3PG35|HSLU\_RHOS1 | MTDLTPREIVSELDRFIIGQKEAKRAVAVALRNRWRRKQLADDLRDEVYPKNILMIGPTGVGKTEISRRLARLAKAPFLKVEATKFTEVGYVGRDVDSIIRDLVDAAIVETRARMREDVKARAAKAAEDRVIEAVAGRDAREQTREMFRGKLKRGELDNTVIEIDVADTSNPMQMLDPTGQGQMGMMNLGEIFGKAFGGRTQRRKMTVAESHDILMNEEADKLLDDEVVKATALEAVQQNGIVFIDEIDKVCARSDMRGADVSREGVQRDLLPLIEGTTVSTKYGPVKTDHILFIASGAFHIAKPSDLLPELQGRLPIRVELRALTEEDFVRILSETDNALTLQYKALMQTEKVGITFTEDGIAALASIAAEVNRSVENIGARRLYTVMERVFEELSFQAPDRSGEEVTVDAAYVEKNLGELARSSDLSRYVL |
| 1662 | sp|B5FR08|HSPQ\_SALDC | MIASKFGIGQQVRHSLLGYLGVVVDIDPEYSLDEPSPDELAVNDELRAAPWYHVVMEDDDGQPVHTYLAEAQLRSEMRDEHPEQPSMDELARTIRKQLQAPRLRN |
| 1663 | sp|Q07078|HSP83\_ORYSJ | MASETETFAFQAEINQLLSLIINTFYSNKEIFLRELISNSSDALDKIRFESLTDKSKLDAQPELFIHIVPDKASNTLSIIDSGVGMTKSDLVNNLGTIARSGTKEFMEALAAGADVSMIGQFGVGFYSAYLVAERVVVTTKHNDDEQYVWESQAGGSFTVTRDTSGEQLGRGTKITLYLKDDQLEYLEERRLKDLVKKHSEFISYPISLWTEKTTEKEISDDEDEEEKKDAEEGKVEDVDEEKEEKEKKKKKIKEVSHEWNVMNKQKPIWLRKPEEITKEEYAAFYKSLTNDWEEHLAVKHFSVEGQLEFKAILFVPKRAPFDLFDTRKKQNNIKLYVRRVFIMDNCEELIPEWLSFVKGIVDSEDLPLNISREMLQQNKILKVIRKNLVKKCVELFFEIAENKEDYNKFYEAFSKNLKLGIHEDSTNRTKIAELLRYHSTKSGDELTSLKDYVTRMKEGQSEIYYITGESKKAVENSPFLEKLKKKGYEVLYMVDAIDEYAVGQLKEFEGKKLVSATKEGLKLDESEDEKKRQEELKEKFEGLCKVIKEVLGDKVEKVVVSDRVVDSPCCLVTGEYGWTANMERIMKAQALRDSSMAGYMSSKKTMEINPENAIMDELRKRADADKNDKSVKDLVMLLFETALLTSGFSLEDPNTFGTRIHRMLKLGLSIDEDESAEADADMPPLEDDAGESKMEEVD |
| 1664 | sp|Q9AGU4|HUTU\_PSESX | MTSTTPKSPAAFTRHRDGEIRAARGTQLTAKSWMTEAPLRMLMNNLDPQVAENPTELVVYGGIGRAARNWECYDKIVESLTNLNDDETLLVQSGKPVGVFKTHSNAPRVLIANSNLVPHWATWEHFNELDAKGLAMYGQMTAGSWINIGSQGIVQGTYETFVEAGRQHYNGSLKGKWVLTAGLGGMGGAQPLAATLAGACSLNIECQQSRIDFRLATRYVDEQALDLDDALVRIAKYTAEGKAISIALCGNAAELLPEMVRRGVRPDMVTDQTSAHDPLNGYLPKGWTWEQYRDRAVTDPAAVVKAAKASMGEHVEAMLAFQKAGIPTFDYGNNIRQMAKEVGVENAFDFPGFVPAYIRPLFCRGVGPFRWVALSGDAEDIYKTDAKVKELIADDAHLHNWLDMARERISFQGLPARICWVGLGQRAKLGLAFNEMVRSGELKAPIVIGRDHLDSGSVSSPNRETESMKDGSDAVSDWPLLNALLNTASGATWVSLHHGGGVGMGFSQHSGMVIVCDGTDEAAERIARVLHNDPATGVMRHADAGYDIAIDCANEQGLNLPMING |
| 1665 | sp|Q7CHM0|HSPQ\_YERPE | MIASKFGIGQQVRHSLHGYLGVVIDIDPEYSLAPPEPDEVANNKTLRSSPWYHVVIEDDDGQPVHTYLAEAQLTYEDVDAHPEQPSLDELAASIRHQLQAPHLRN |
| 1666 | sp|Q8XFC1|HSPQ\_SALTI | MIASKFGIGQQVRHSLLGYLGVVVDIDPEYSLDEPSPDELAVNDELRAAPWYHVVMEDDDGQPVHTYLAEAQLRSEMRDEHPEQPSMDELARTIRKQLQAPRLRN |
| 1667 | sp|A3N1W3|HSLO\_ACTP2 | MSYTKDNDKLYRYLFQNRAVRGEWVRLNDTFTETLNTHQYPKAVQNLLGEMLVATSLLTAIMKFEGTITVQIQGDGPLKLAVVNGNEKQQLRALARTQAEIADNASLSEMIGNGVLVISIMPNDGERYQGVIALDKPTIRECLEDYFIRSEQLQTHLVIRTGEYEGKAVAGGLLLQIMPDGTGTPEDFEHLMTLAETVKDEELFGLEAEELLFRLYHEEQVEVYPPQETEFHCGCSRGRSGNAILLLPMEEIDEMLAEKNGVIDMQCECCGTQYFFDKNAIMEFKQEADKLNQLGL |
| 1668 | sp|P04810|HSP83\_DROSI | MPEEAETFAFQAEIAQLMSLIINTFYSNKEIFLRELISNASDALDKIRYESLTDPSKLDSGKELYIKLIPNKTAGTLTIIDTGIGMTKSDLVNNLGTIAKSGTKAFMEALQAGADISMIGQFGVGFYSAYLVADKVTVTSKNNDDEQYVWESSAGGSFTVRADNSEPLGRGTKIVLYIKEDQTDYLEESKIKEIVNKHSQFIGYPIKLLVEKEREKEVSDDEADDEKKEGDEKKEMETDEPKIEDVGEDEDADKKDKDAKKKKTIKEKYTEDEELNKTKPIWTRNPDDISQEEYGEFYKSLTNDWEDHLAVKHFSVEGQLEFRALLFIPRRTPFDLFENQKKRNNIKLYVRRVFIMDNCEDLIPEYLNFMKGVVD |
| 1669 | sp|O80982|HSFA2\_ARATH | MEELKVEMEEETVTFTGSVAASSSVGSSSSPRPMEGLNETGPPPFLTKTYEMVEDPATDTVVSWSNGRNSFVVWDSHKFSTTLLPRYFKHSNFSSFIRQLNTYGFRKIDPDRWEFANEGFLAGQKHLLKNIKRRRNMGLQNVNQQGSGMSCVEVGQYGFDGEVERLKRDHGVLVAEVVRLRQQQHSSKSQVAAMEQRLLVTEKRQQQMMTFLAKALNNPNFVQQFAVMSKEKKSLFGLDVGRKRRLTSTPSLGTMEENLLHDQEFDRMKDDMEMLFAAAIDDEANNSMPTKEEQCLEAMNVMMRDGNLEAALDVKVEDLVGSPLDWDSQDLHDMVDQMGFLGSEP |
| 1670 | sp|P0CS91|HSP77\_YEASX | MLAAKNILNRSSLSSSFRIATRLQSTKVQGSVIGIDLGTTNSAVAIMEGKVPKIIENAEGSRTTPSVVAFTKEGERLVGIPAKRQAVVNPENTLFATKRLIGRRFEDAEVQRDIKQVPYKIVKHSNGDAWVEARGQTYSPAQIGGFVLNKMKETAEAYLGKPVKNAVVTVPAYFNDSQRQATKDAGQIVGLNVLRVVNEPTAAALAYGLEKSDSKVVAVFDLGGGTFDISILDIDNGVFEVKSTNGDTHLGGEDFDIYLLREIVSRFKTETGIDLENDRMAIQRIREAAEKAKIELSSTVSTEINLPFITADASGPKHINMKFSRAQFETLTAPLVKRTVDPVKKALKDAGLSTSDISEVLLVGGMSRMPKVVETVKSLFGKDPSKAVNPDEAVAIGAAVQGAVLSGEVTDVLLLDVTPLSLGIETLGGVFTRLIPRNTTIPTKKSQIFSTAAAGQTSVEIRVFQGERELVRDNKLIGNFTLAGIPPAPKGVPQIEVTFDIDADGIINVSARDKATNKDSSITVAGSSGLSENEIEQMVNDAEKFKSQDEARKQAIETANKADQLANDTENSLKEFEGKVDKAEAQKVRDQITSLKELVARVQGGEEVNAEELKTKTEELQTSSMKLFEQLYKNDSNNNNNNNNGNNAESDETKQ |
| 1671 | sp|Q55GH8|HSPL\_DICDI | MNPVEDFTKLNLFGTFTNFVSAPVPFDCYHDPTKSETILVADLPGVLPNDMKVNVDKDKLIIQGKRECEKHDYLFSNRWCGSFIHHISFAKEVKASDVNVGLGEGILKITISNTPTNNVIGVKMSNNNKVEF |
| 1672 | sp|Q7NBC5|HRCA\_MYCGA | MNNKLTERQILILKAIINEYISTATAVGSKIILEKYFNNEVSSATIRNEMSVLEKEKYIEKPHTSAGRIPTIKGYQYYEANLAETKISERLKQKLMAILNKRYHSIDEVIEQSVEFINNVTNLPSVITKFKSYDLLKRMDLIKINNNTAIILIVSSSGEVIKKTIKYQNSIQYNDVSTCVQIFNDRLVDTPFIELKEKLTAIKEIVRTKVHEYEFVMQRIVNYIFDINEKSTINIKGTKKLVIHPEFHDHNKLSEILNLLENTSIWEQISFMQQKTGKSVITFGQDIGIEGISVASTLIETEQNKHQIAIVGPNRMEYGKIKGLLNILKEQVEKIDHLNLPLEEINKES |
| 1673 | sp|O30911|HSLU\_SALTY | MSEMTPREIVSELNKHIIGQDNAKRSVAIALRNRWRRMQLDEELRHEVTPKNILMIGPTGVGKTEIARRLAKLANAPFIKVEATKFTEVGYVGKEVDSIIRDLTDAAVKMVRVQAIEKNRYRAEELAEERILDVLIPPAKNNWGQAEQQQEPSAARQTFRKKLREGQLDDKEIEINLAAAPMGVEIMAPPGMEEMTSQLQSMFQNLGGQKQKPRKLKIKDAMKLLVEEEAAKLVNPEELKQDAIDAVEQHGIVFIDEIDKICKRGETSGPDVSREGVQRDLLPLVEGCTVSTKHGMVKTDHILFIASGAFQVAKPSDLIPELQGRLPIRVELQALTTSDFERILTEPNASVTVQYKALMATEGVNIEFTDSGIKRIAEAAWQVNETTENIGARRLHTVLERLMEEISYNASDLHGQNITIDAEYVSKHLDALVADEDLSRFIL |
| 1674 | sp|B7IFU1|HSLV\_THEAB | MKWRSTTVVCVRRNDSVVMISDGQVTYGNTILKGNAKKVRKMGDGNVLAGFAGSVADAMALFDRFEAKYREWGGNLLKAAVELAKDWRTDRVLRRLEAMLLVADKKYTFIVSGTGEVIQPEDDIASIGSGSPYAIAAGKALLRHTDLSAKEIALEAIKIASEICIYTNDNFTIEEL |
| 1675 | sp|Q0T8H6|DNAK\_SHIF8 | MGKIIGIDLGTTNSCVAIMDGTIPRVLENAEGDRTTPSIIAYTQDGETLVGQPAKRQAVTNPQNTLFAIKRLIGRRFQDEEVQRDVSIMPFKIIAADNGDAWVEVKGQKMAPPQISAEVLKKMKKTAEDYLGEPVTEAVITVPAYFNDAQRQATKDAGRIAGLEVKRIINEPTAAALAYGLDKGTGNRTIAVYDLGGGTFDISIIEIDEVDGEKTFEVLATNGDTHLGGEDFDSRLINYLVEEFKKDQGIDLRNDPLAMQRLKEAAEKAKIELSSAQQTDVNLPYITADATGPKHMNIKVTRAKLESLVEDLVNRSIEPLKVALQDAGLSVSDIDDVILVGGQTRMPMVQKKVAEFFGKEPRKDVNPDEAVAIGAAVQGGVLTGDVKDVLLLDVTPLSLGIETMGGVMTTLIAKNTTIPTKHSQVFSTAEDNQSAVTIHVLQGERKRAADNKSLGQFNLDGINPAPRGMPQIEVTFDIDADGILHVSAKDKNSGKEQKITIKASSGLNEDEIQKMVRDAEANAEADRKFEELVQTRNQGDHLLHSTRKQVEEAGDKLPADDKTAIESALTALETALKGEDKAAIEAKMQELAQVSQKLMEIAQQQHAQQQTAGADASANNAKDDDVVDAEFEEVKDKK |
| 1676 | sp|A3PNM1|DNAK\_RHOS1 | MAKVIGIDLGTTNSCVAIMDGAQPRVIENSEGARTTPSIVGFTDSERLVGQPAKRQAVTNPSNTVFAVKRLIGRRVGDAEVEKDKKLVPYSIVNGGNGDAWVEVRGEKYSPSQISAFILQKMKETAEAYLGETVTQAVITVPAYFNDAQRQATKDAGKIAGLEVLRIINEPTAAALAYGLDKKDTKTIAVYDLGGGTFDITILEIDDGLFEVKSTNGDTFLGGEDFDMRIVNYLADEFKKEHGVDLTLDKMALQRLKEAAEKAKIELSSSQQTEINQPFISMDRNTGQPLHMVMKLTRAKLESLVGDLIKKSLKPCEAALKDAGVSKSDIDEVVLVGGMTRMPRVVEEVTKFFGKEPHKGVNPDEVVALGAAIQAGVLQGDVKDVVLLDVTPLSLGIETLGGVFTRLIDRNTTIPTKKSQVFSTAEDNQNAVTIRVFQGEREMAADNKLLGQFNLEDIPPAPRGMPQIEVTFDIDANGIVSVSAKDKGTGKSQNITIQASGGLSDEDIEKMVRDAEANAEADKKRRELVETKNQGESLLHSTRKSIEEHGDKVDPSTVEAIELAMGALEEALKSEDAGKIKGGIQNLTEAAMRLGEAIYKASQAEGGATPDEEGPRSVDDDIVDADFEDLGENKRK |
| 1677 | sp|Q8ZM27|IRAD\_SALTY | MMTPTIPVALFDRLLVEGISPHELVRRKLMCLFNSCAVPGGETLPPLLTRGMPEWHEVNVGDKRVLNWFCRELRAAILRYEPSINMLKVSVKDAHHQTLALSLEAMLQDESEPLRLEIAYSNGRWR |
| 1678 | sp|B7MPE3|IRAP\_ECO81 | MKNLIAELLFKLAQKEEESKELCAQVEALEIIVTAMLRNMAQNDQQRLIDQVEGALYEVKPDASIPDDDTELLRDYVKKLLRHPRQ |
| 1679 | sp|B4T8M0|IRAP\_SALHS | MKNLIAELLLKLAQKEEESKELVAQVEALEIIVTAMLRNMAQNEQEMLIRQVEGALEGVKPDASVPDHDTELLRQYVKKLLRHPRH |
| 1680 | sp|B6I9L6|IRAM\_ECOSE | MKWIVIDTIIQPSCGISFSAIWGNMKMIIWYQSTIFLPPGSIFTPVKSGIILKDKEYPITIYNIAPFNKDLWSLLKSSQECPPGESKITNKCLHNSCIIKICPYGLK |
| 1681 | sp|B1XEX1|IRAP\_ECODH | MKNLIAELLFKLAQKEEESKELCAQVEALEIIVTAMLRNMAQNDQQRLIDQVEGALYEVKPDASIPDDDTELLRDYVKKLLKHPRQ |
| 1682 | sp|Q03968|LEA3\_WHEAT | MASNQNQASYHAGETKARNEEKTGQVMGATKDKAGQTTEATKQKAGETTEATKQKAAETTEAAKQKASETAEATKQKAAEAKDKTAQTAQAAKEKTYETAQSAKERAAQGKDQTASTLGEKTEAAKQKAAETTEAARQKAAEATEAAKQKASETAQYTKESAVTGKDKTGSVLQQAGETVVNAVVGAKDAVANTLGMGGDNTITTKDNTTGATTKDTTTTTRNH |
| 1683 | sp|G2JZ44|OPUCA\_LISM4 | MLKFEHVTKTYKGGKKAVNDLTLNIDKGEFVCFIGPSGCGKTTTMKMINRLIEPTEGKIFINDKDIMAEDPVKLRRSIGYVIQQIGLMPHMTIRENIVLVPKLLKWSEEKKQERAKELIKLVDLPEEFLDRYPYELSGGQQQRIGVLRALAAEQNLILMDEPFGALDPITRDSLQEEFKNLQKELGKTIIFVTHDMDEAIKLADRIVIMKDGEIVQFDTPDEILRNPANSFVEDFIGKDRLIEAKPDVTQVAQIMNTNPVSITADKSLQAAITVMKEKRVDTLLVVDEGNVLKGFIDVEQIDLNRRTATSVMDIIEKNVFYVYEDTLLRDTVQRILKRGYKYIPVVDKDKRLVGIVTRASLVDIVYDSIWGTLEDATENQEEQADSKTTEPEMKQEG |
| 1684 | sp|O04226|P5CS1\_ORYSJ | MASVDPSRSFVRDVKRVIIKVGTAVVSRQDGRLALGRVGALCEQVKELNSLGYEVILVTSGAVGVGRQRLRYRKLVNSSFADLQKPQMELDGKACAAVGQSGLMALYDMLFNQLDVSSSQLLVTDSDFENPKFREQLTETVESLLDLKVIPIFNENDAISTRKAPYEDSSGIFWDNDSLAGLLALELKADLLILLSDVDGLYSGPPSEPSSKIIHTYIKEKHQQEITFGDKSRVGRGGMTAKVKAAVLASNSGTPVVITSGFENRSILKVLHGEKIGTLFHKNANLWESSKDVSTREMAVAARDCSRHLQNLSSEERKKILLDVADALEANEDLIRSENEADVAAAQVAGYEKPLVARLTIKPGKIASLAKSIRTLANMEDPINQILKKTEVADDLVLEKTSCPLGVLLIVFESRPDALVQIASLAIRSGNGLLLKGGKEAIRSNTILHKVITDAIPRNVGEKLIGLVTTRDEIADLLKLDDVIDLVIPRGSNKLVSQIKASTKIPVLGHADGICHVYIDKSADMDMAKHIVMDAKIDYPAACNAMETLLVHKDLMKSPGLDDILVALKTEGVNIYGGPIAHKALGFPKAVSFHHEYSSMACTVEFVDDVQSAIDHIHRYGSAHTDCIVTTDDKVAETFLRRVDSAAVFHNASTRFSDGARFGLGAEVGISTGRIHARGPVGVEGLLTTRWILRGRGQVVNGDKDVVYTHKSLPLQ |
| 1685 | sp|Q6FSZ8|OCA1\_CANGA | MDSPTLEDRENSIEDCDDDDDNIYINEETEEGHEKVLVTHAPQERIVPPLNFCPVERYLYRSGQPSPVNFPFLLNLNLKTIVWLANEEPQDSLLEFCDTHKINLQFAAINPDAGEDDNPWDGLTEHSIINVLQTIVTKENYPLLVCCGMGRHRTGTVIGCLRRIMGWNLASVSEEYRRFTGSRGGRILVELLIEAFDTALVEIDKKNAPDWLLTSLE |
| 1686 | sp|Q6FSQ6|POG1\_CANGA | MEKDHLVEEEKKDKVESEKPEEGVTVPKVESNDDIHQTDTPKVDSTTSEGKLKDPVAVERPSINSTNTSSSGGFGNTVNDLSQPSTRPVTTAETSTNSNLPWDGNQANRNLNSQSYDLRVHLLKSLGIEDISRIDIADNKLLERFFSLHIEREQKEIEKLKTKNLEKLELIVDKFVSNEKFTNDTLNKLLELISSKSIDSHDLLGSSSIQLKRTEHSPNRLMSPRGHKRYKSEIPTVPETQYSHINYNIHGQPVNMVYHQAYQQVTPQTYYVPQGNQAWHQGSYTQGNRATFQPPSLANSNINNSEDVKLQEGVKVEPSGRARQRSSTSLGASLSTSNSTSNLSNTMKAATANEGKDTGSNDGHHTGSYGASNASNVMPSQVNNPNYMTYGSVRGGPYVMVQQPPGQQMATQYIPAGNQGFYQSVVPNQGHMNGMVASSQGYQANTPQPATSDNMVMLGNQYRGNETLHQDATPSLSSSTSQKRQGHRRTQSANVVLSTGRSPNRMNMQRQVNFLIHTPKHPPPT |
| 1687 | sp|O22208|BZP17\_ARATH | MAEPITKEQPPPPAPDPNSTYPPPSDFDSISIPPLDDHFSDQTPIGELMSDLGFPDGEFELTFDGMDDLYFPAENESFLIPINTSNQEQFGDFTPESESSGISGDCIVPKDADKTITTSGCINRESPRDSDDRCSGADHNLDLPTPLSSQGSGNCGSDVSEATNESSPKSRNVAVDQKVKVEEAATTTTSITKRKKEIDEDLTDESRNSKYRRSGEDADASAVTGEEDEKKRARLMRNRESAQLSRQRKKHYVEELEEKVRNMHSTITDLNGKISYFMAENATLRQQLGGNGMCPPHLPPPPMGMYPPMAPMPYPWMPCPPYMVKQQGSQVPLIPIPRLKPQNTLGTSKAKKSESKKSEAKTKKVASISFLGLLFCLFLFGALAPIVNVNYGGISGAFYGNYRSNYITDQIYSQHRDRVLDTSRSGAGTGVSNSNGMHRGRDSDRGARKNISATESSVTPGNGSEPLVASLFVPRNDKLVKIDGNLIINSILASEKAVASRKASESKERKADLMISKDYTPALPLPDVGRTEELAKHLYRSKAEKQKALSSGSADTLKDQVKTKAANGEMQQWFREGVAGPMFSSGMCTEVFQFDVSSTSGAIIPAATNVSAEHGKNTTDTHKQQNRRILRGLPIPLPGSDFNLTKEHQRNSSSKEIKPASSMVVSVLVDPREGGDGDIDGMIGGPKSLSRVFVVVLLDSAKYVTYSCVLPRSGAPHLVTT |
| 1688 | sp|A6NC98|CC88B\_HUMAN | MEGGKGPRLRDFLSGSLATWALGLAGLVGEAEDSEGEEEEEEEEPPLWLEKRFLRLSDGALLLRVLGIIAPSSRGGPRMLRGLDGPAAWRVWNLNHLWGRLRDFYQEELQLLILSPPPDLQTLGFDPLSEEAVEQLEGVLRLLLGASVQCEHRELFIRHIQGLSLEVQSELAAAIQEVTQPGAGVVLALSGPDPGELAPAELEMLSRSLMGTLSKLARERDLGAQRLAELLLEREPLCLRPEAPSRAPAEGPSHHLALQLANAKAQLRRLRQELEEKAELLLDSQAEVQGLEAEIRRLRQEAQALSGQAKRAELYREEAEALRERAGRLPRLQEELRRCRERLQAAEAYKSQLEEERVLSGVLEASKALLEEQLEAARERCARLHETQRENLLLRTRLGEAHAELDSLRHQVDQLAEENVELELELQRSLEPPPGSPGEAPLAGAAPSLQDEVREAEAGRLRTLERENRELRGLLQVLQGQPGGQHPLLEAPREDPVLPVLEEAPQTPVAFDHSPQGLVQKARDGGPQALDLAPPALDSVLEASAECPQAPDSDPQEAESPLQAAAMDPQASDWSPQESGSPVETQESPEKAGRRSSLQSPASVAPPQGPGTKIQAPQLLGGETEGREAPQGELVPEAWGLRQEGPEHKPGPSEPSSVQLEEQEGPNQGLDLATGQAEAREHDQRLEGTVRDPAWQKPQQKSEGALEVQVWEGPIPGESLASGVAEQEALREEVAQLRRKAEALGDELEAQARKLEAQNTEAARLSKELAQARRAEAEAHREAEAQAWEQARLREAVEAAGQELESASQEREALVEALAAAGRERRQWEREGSRLRAQSEAAEERMQVLESEGRQHLEEAERERREKEALQAELEKAVVRGKELGDRLEHLQRELEQAALERQEFLREKESQHQRYQGLEQRLEAELQAAATSKEEALMELKTRALQLEEELFQLRQGPAGLGPKKRAEPQLVETQNVRLIEVERSNAMLVAEKAALQGQLQHLEGQLGSLQGRAQELLLQSQRAQEHSSRLQAEKSVLEIQGQELHRKLEVLEEEVRAARQSQEETRGQQQALLRDHKALAQLQRRQEAELEGLLVRHRDLKANMRALELAHRELQGRHEQLQAQRASVEAQEVALLAERERLMQDGHRQRGLEEELRRLQSEHDRAQMLLAELSRERGELQGERGELRGRLARLELERAQLEMQSQQLRESNQQLDLSACRLTTQCELLTQLRSAQEEENRQLLAEVQALSRENRELLERSLESRDHLHREQREYLDQLNALRREKQKLVEKIMDQYRVLEPVPLPRTKKGSWLADKVKRLMRPRREGGPPGGLRLGADGAGSTESLGGPPETELPEGREADGTGSPSPAPMRRAQSSLCLRDETLAGGQRRKLSSRFPVGRSSESFSPGDTPRQRFRQRHPGPLGAPVSHSKGPGVGWENSAETLQEHETDANREGPEVQEPEKRPLTPSLSQ |
| 1689 | sp|O32219|CADA\_BACSU | MRLVKQEYVLDGLDCSNCARKIENGVKGIKGINGCAVNFAASTLTVSADGKEEQWVTNKVEKKVKSIDPHVTVRQKHIKKSADDGYRNRMVNMLIRMAAAVILGAAAYLVQSGTIEFFLFLGAYLIIGGDIIIRAVKNIIRGQVFDEHFLMALATIGAFLIQQYPEGVAVMLFYQIGELFQGAAVSRSRKSISALMDIRPDYANLKTKNGIEQVSSEDVQTGDIIVVNPGESIPLDGKVVQGSAMVDTSALTGESVPRKAAEGQDVMSGFINQNGVLHIEVTKGYQESAVSKILDLVQNASSRKARTENFITKFAKYYTPAVVIIAVLLAFVPPLVLSGAALSDWVYRALIFLVISCPCALVVSIPLGFFGGIGAASKAGVLVKGSNYLEALNQVKYAVFDKTGTLTKGSFEVTEIKPAEGFTKDRLLEAAAYAELHSQHPIAESVRKAYGKMLSSDEIESYEEISGHGIFAKVNGTEILAGNKKLMEREQIEDVPDENAGTIVHVAVDQRYAGAIIIADEIKEDAAQAVADLKSLGIKQTAMLTGDSKQTGEAVGKQLGIGEVYAELLPQDKVAQVEALEAKLLPSEKLIFVGDGINDTPVLARADIGVAMGGLGSDAAVEAADIVLMTDQPSKIAEAIRIAKRTRRIVWQNIGFALGVKAIFLILGAFGIATMWEAVFSDVGVTLLAVANAMRVMRLKNK |
| 1690 | sp|Q3B2T3|HRCA\_PELLD | MGSRELNLRERQVLGIIIQLYVVTAAPVGSRYIARNYSLGLSDATIRNVMADLEAEGYISQPHTSAGRIPTDLGYRYYVDLIMKVQRIDEEEKRRMESDFGPISMEGRGTSAEVLVSAAKVLGSISRQLSVVLSPTLSNAVFEKLDMVLLSSTRMMVVLSIQSMFVKTIVMELQHELTRQKVDEVVDLLNERLSGLTLSEIRRSITRRLAGSSCDTNLKDLIVRSADSLFDESPIFERLYISGAEYIVEQPEFKQPERVRELITMIEDKFSVARLVEDIAPKQDLKRTAGHDVSISIGRENSALQAEDLTIVSAPYYAGSMVGTLGILGPKRMDYEHAVRVLNYMADCLTATLSDVN |
| 1691 | sp|Q02RW5|HSCB\_PSEAB | MGKPCHFAQFDLQPAFLVDLDELGQRYRELVRSVHPDRFADAPEREQRLALERAAQLNEAYQTLKSAPRRALYLLTLSGHELPLEATVQDPEFLLQQMQLREELEELQDSADLAGVATFKRRLKAAQAELEREFAACWDDAQRREEAERLVRRMQFLDKLAQEVRQLEERLDD |
| 1692 | sp|P77319|HSCC\_ECOLI | MDNAELAIGIDLGTTNSLIAVWKDGAAQLIPNKFGEYLTPSIISMDENNHILVGKPAVSRRTSHPDKTAALFKRAMGSNTNWRLGSDTFNAPELSSLVLRSLKEDAEEFLQRPIKDVVISVPAYFSDEQRKHTRLAAELAGLNAVRLINEPTAAAMAYGLHTQQNTRSLVFDLGGGTFDVTVLEYATPVIEVHASAGDNFLGGEDFTHMLVDEVLKRADVARTTLNESELAALYACVEAAKCSNQSPLHIRWQYQEETRECEFYENELEDLWLPLLNRLRVPIEQALRDARLKPSQIDSLVLVGGASQMPLVQRIAVRLFGKLPYQSYDPSTIVALGAAIQAACRLRSEDIEEVILTDICPYSLGVEVNRQGVSGIFSPIIERNTTVPVSRVETYSTMHPEQDSITVNVYQGENHKVKNNILVESFDVPLKKTGAYQSIDIRFSYDINGLLEVDVLLEDGSVKSRVINHSPVTLSAQQIEESRTRLSALKIYPRDMLINRTFKAKLEELWARALGDEREEIGRVITDFDAALQSNDMARVDEVRRRASDYLAIEIP |
| 1693 | sp|Q04VD0|HRCA\_LEPBJ | MDLTERHKRILKALVDEFIQENRPVGSKTLFDKHDIGLSPASIRTVLKDLEDYGYLASKHTSGGRIPTERGYRFYVDSLVILYELTLKEKQRIQQEYLKMQFKLDQILKATASVLSSLSNAAGIVIGPAKNLDTLKHLELIHVRGDEILMILVMRSGTVLHRNIFVDRNYSQEALYQVSKYLNDNLKGYDIYEIQNVVVPNLMVRRDGPEDFTRIAELLSSAMNPDNSEVTLYIDGFKNLYANFRDEEQQLSQVLSLLDDQGFLKEFFSEYIDQDGVYTIIGKDGNRSMSGVSIITSNYKMGEKKIGALGIIGPQRMDYNRALPLVDFTSKLVSEMVTRISK |
| 1694 | sp|Q8EPW3|HRCA\_OCEIH | MLTERQLIILQVIIDDFIETAHPIGSRALSKSEYLPYSAATIRNEMADLEDLGFLEKTHTSSGRIPSEKGYRYYVDHLIGPMNQHEAGILRKYTDGEFFEFEQVVQMTAEVLSELTNYTSIILGPEMFEATLKQIQVLTLSDHTAVAILVTSTGHVEHRSFALPEGIASSDLEKLVNILNDRLKGVPIIRLGEVISTEVAQLMHRYMDDFEASFDLLRAFFMNEHPVKLYFGGKSNILMQPEFNDVDKIRSFYALIEQEDEIANLLKNTHQGIKVSIGNENKVEAIKDLSLITASYHVGDNLMGTIALLGPTRMEYKKVISLMKGISDEMTNTLDRWYKGDS |
| 1695 | sp|B5YG00|HSLU\_THEYD | MENLTPKKIVEELDKFIIGQESAKKAVAIALRNRFRRQLLPKELRDEILPKNILMIGPTGVGKTEIARRLARLVNAPFVKVEASKFTEVGYVGRDVESIIRDLTEVAMNMVKQEHTERVQEKARQLAEERVLDILLPQPRYTRDMNEAEERTRYKETREKLRKQLREGILDERYIEIDLKEKVVPFGIISNVAMEEIEINLKEMLGSFLPEKVKRKKVKIPEAIQLFTQEEANKLIDMEKVTKEAIERVEQTGIVFIDEIDKIASRGSSYGPDVSREGVQRDLLPIVEGSTVTTKYGPVKTDHILFIAAGAFHVAKPSDLIPELQGRFPIRVELNSLGKEEFVRILTEPDNALIKQYIALLATEDVYLEFTQDGIEEIADISQQVNEKTENIGARRLHTVMEKLLEDISFNASELKGQKITIDAKFVREKLSEIIKSEDLSRYIL |
| 1696 | sp|P64399|HRCA\_MYCBO | MGSADERRFEVLRAIVADFVATQEPIGSKSLVERHNLGVSSATVRNDMAVLEAEGYITQPHTSSGRVPTEKGYREFVDRLEDVKPLSSAERRAIQSFLESGVDLDDVLRRAVRLLAQLTRQVAVVQYPTLSTSTVRHLEVIALTPARLLMVVITDSGRVDQRIVELGDVIDDHQLAQLREILGQALEGKKLSAASVAVADLASQLGGAGGLGDAVGRAATVLLESLVEHTEERLLLGGTANLTRNAADFGGSLRSILEALEEQVVVLRLLAAQQEAGKVTVRIGHETASEQMVGTSMVSTAYGTAHTVYGGMGVVGPTRMDYPGTIASVAAVALYIGDVLGAR |
| 1697 | sp|B0K3Y2|HRCA\_THEPX | MPLDDRKKKILYAVITDYIMTAEPIGSRTIAKKYNIGLSSATIRNEMADLEEMGYLEQPHTSAGRIPSDKGYRFYVDSILRNYINNEPPISYNTREEIIAEFDEIVKKYAKILANITHHTTVAKMPKLNPDRIKRIQLIPVASNKMIFLVVTDTGIVKNYLLNLCQNVDRTIFEFLNNLLNEKIAGKNEKDVFEFLQQDLRHMLGEMVFIADELINTILLSLKQLQETDIYADGTSHILDFPEYKDLSKAKNFFNLLDNKSLLNEILEPEVDFIDVRIGSENKFEEMKDLSVIKTTYKINGRVVGTIGIIGPTRMDYRKLINEINVMTKELSNLLSNIYNDEI |
| 1698 | sp|A1WGR9|HRCA\_VEREI | MLDDRAKLLLKALVERYIADGQPVGSRTLSQASGIDLSPATIRHVMADLEDLGLIASPHTSAGRRPTARGYRLFVDTMLTVQRDPLTAPELAPEQPQKVIANAAQLLSSLSQFVGVVIAPRRSSVFRHIEFLRLSERRFLVIIVSPEGDVQNRVIFTDIDYSQAQLIEASHFLNSHYTGLAMEQVRERLKSEVDMLRNEIAALMQAAVNVGSEALSDVQDEVVISGERNLLAVSDFSSDMDHLRRAFDLFEQKTQILRLLDISSQAQGVRIYIGGESQVVPFEELSVVSASYEVDGTMVGTLGVIGPTRMPYDRMIQIVDITSRLLSNALSHRK |
| 1699 | sp|Q1BYY0|HRCA\_BURCA | MLDPRARTLLKTLIERYIADGQPVGSRTLSRYSGLELSPATIRNVMSDLEELGLVSSPHTSAGRVPTPRGYRLFVDTMLTVEAPIDAEAVARQVQNTLQAGEPQQRVVAAAASVLSNLSQFAGVVLTPRRSHVFKQIEFMRLSDKRILLIIVTPEGDVQNRMLATPRDYSPSQLTEASNYINAHFAGLSFDEVRRRLRDEIDQLRGDMTTLMHAAVTASTEVPDTEDTVLISGERNLLEVADLSSDMARLRKLFDVFDQKTGLLQLLDVSSHAQGVQIFIGGESTLVPIEEMSVVTAPYEVNGQIVGTLGVIGPTRMAYNRVIPIVDITARLLSLTLSQQ |
| 1700 | sp|Q7VVX7|HRCA\_BORPE | MDDRARALLKALIERYIADGQPVGSRTLSKVFDLSPATIRNVMADLEELGLIHSPHTSAGRVPTPRGYRMFVDSLLAVRAYQFEPAHIGELLPVSEPSRAVNAAAALLSNLTQFAGVVLTPKRTQIFRQIEFIRLSDKRVLLIIVTPEGDVQNRILSAQRDYTEAELLEAGNFFNVHFSGKSFDAVRRTLSTELAQLRDDISRLMQAAVEAGAEAADDGEAVVISGERKLLDVTDIASDMDRLRKMFSLFEKKTDLLQLLDVSSRAQGVQIYIGGDSQLVPMEEVSVITAPYGVDGKVIGTLGVIGPTRMAYERVIPIVDITARLLSNALSHNQ |
| 1701 | sp|C1ESL0|HRCA\_BACC3 | MLTERQLLILQTIIDDFIGSAQPVGSRTLAKKDAITFSSATIRNEMADLEELGFIEKTHSSSGRVPSEKGYRFYVDHLLAPQNLPKDEIVQIKDLFAERIFEAEKIAQQSAQILSELTNYTAIVLGPKLSTNKLKNVQIVPLDRQTAVAIIVTDTGHVQSKTITVPESVDLSDLEKMVNILNEKLSGVPMSELHNKIFKEIVTVLRGYVHNYDSAIKMLDGTFQVPLSEKIYFGGKANMLSQPEFHDIHKVRSLLTMIDNEAEFYDILRHKQVGIQVKIGRENSATAMEDCSLISATYSIGEEQLGTIAILGPTRMQYSRVISLLQLFTRQFTDGLKK |
| 1702 | sp|Q7NXL8|HRCA\_CHRVO | MMNERAQHLLKALIERYIADGQPVASKTLSLLPGVELSSATVRNVLADLENMGLIASPHTSAGRVPTARGYRLFVDRLLTIRPLDELSRHELEANLQPDSPQRIVQAASSLLSELTSFAGVVLTPQRSDVAFRQIEFLRLSERRVLMILVTLDGDVQNHLLVTERDYTPSELIEAGNFINQHYAGQGLSAVAQRVESELKQLQGDIAELMAAAVKLGQQTLAKRSEDVVVSGGSRLLQVHDLSDDLSRLRELFGVFERKTELLKLLAQGREAQGVNIFIGEESGVMTLDECSVVTAPYCINGQVVGTLGVVGPTRMAYERVIPIVDITARLVSNALSFRE |
| 1703 | sp|P72795|HRCA\_SYNY3 | MVKPLRLNDRHQQILRATVQHYIATAEPVGSHTLAQEYQFAVSSATIRNALGQLEKAGLLYQPHVSAGRVPSDSGYRIYVDNLLTWSDRQSRTVKQRLENEINGDNWHFEALIQRMGQILAGLSGYIALITFPQTETVQLRHLQLMLLPSHQILIILVTDSYHTHSATLDLPAAMEAKEEGELEQELAIFSNFLNAQLRGKNLSELSHLNWQELDQKFSIYADFLKGLQQQIKPLLQRRMAGPLVVHGVSKVIQQPEFSQLEQVQMLLSLLEQEQDKLFSLLFDPDNYGDNLANLGQEMNLLTGETMPKTRPVVTIRIGAENPLESMHPCTLVSAIYRQQEIPMGSVSILGPTRMVYQQTIPLVEQAAECLSEALSKN |
| 1704 | sp|Q3AQP3|HRCA\_CHLCH | MDYRELTARERQILGIIIQSYVVSAAPVGSKYIARHYNLGLSDATIRNVMAELEELGFISQPHTSAGRVPTDKGYRYYVDLIMTVKTLDEQEKQRFEQHITPLERKGTSADVLLSAVKVLGTISRQLSVVLSPTLSNALFEKLDMVLLSSTRMMVIISIQSLFVKTIVMELHMQVSRQMLDEVVDVLNERLSGLTLSEIRRSINQRLADCSCDNELKNLIVRSAGTLFDEMPVFERLYISGTEYLVEQPEFQQPEKVRDLITMLEDKFSVATLVEQHHANNPDVTITIGKEHGKRQAEDLTVLSAPYYVGDMVGTVGILGPKRMDYEHAVRILHYMAGSLSSTLSIQN |
| 1705 | sp|Q83SE6|HTPG\_SHIFL | MKGQETRGFQSEVKQLLHLMIHSLYSNKEIFLRELISNASDAADKLRFRALSNPDLYEGDGELRVRVSFDKDKRTLTISDNGVGMTRDEVIDHLGTIAKSGTKSFLESLGSDQAKDSQLIGQFGVGFYSAFIVADKVTVRTRAAGEKPENGVFWESAGEGEYTVADITKEDRGTEITLHLREGEDEFLDDWRVRSIISKYSDHIALPVEIEKREEKDGETVISWAKINKAQALWTRNKSEITDEEYKEFYKHIAHDFNDPLTWSHNRVEGKQEYTSLLYIPSQAPWDMWNRDHKHGLKLYVQRVFIMDDAEQFMPNYLRFVRGLIDSSDLPLNVSREILQDSTVTRNLRNALTKRVLQMLEKLAKDDAEKYQTFWQQFGLVLKEGPAEDFANQEAIAKLLRFASTYTDSSAQTVSLEDYVSRMKEGQEKIYYITADSYAAAKSSPHLELLRKKGIEVLLLSDRIDEWMMNYLTEFDGKPFQSVSKVDESLEKLADEVDESAKEAEKALTPFIDRVKALLGERVKDVRLTHRLTDTPAIVSTDADEMSTQMAKLFAAAGQKVPEVKYIFELNPDHVLVKRAADTEDEAKFSEWVELLLDQALLAERGTLEDPNLFIRRMNQLLVS |
| 1706 | sp|Q63R42|HRCA\_BURPS | MLDPRARTLLKTLIERYIADGQPVGSRTLSRYSGLELSPATIRNVMSDLEELGLVSSPHTSAGRVPTPRGYRLFVDTMLTVESPIDSDAVTRLVQTTLQAGEPQQRVVAAAASVLSNLSQFAGVVLTPRRSHVFKQIEFLRLSDKRILLIIVTPEGDVQNRMIATQRDYAPAQLTEASNYINAHFAGLSFDEVRRRLREEIDQLRGDMTALMHAAVTASTEEPDDEETVLISGERNLLEVADLSSDMARLRKLFDVFDQKTSLLQLLDVSSHAQGVQIFIGGESTLVPIDEMSVVTAPYEVNGKIVGTLGVIGPTRMAYNRVIPIVDITARLLSLTLSQQ |
| 1707 | sp|P61188|HTPG\_TREDE | MAQYKFETEVNQLLSLIIHSLYSNKEIFLRELVSNASDALDKLKYLTLSDEAYKQIKFEPRIDICFDDTANTLTVRDTGLGMNEEDLKNNLGTIARSGTKAFLDQLAAADKKDSNLIGQFGVGFYSAFMAASTIDVISKKAGENDVWKWTSDGKGAYDLEKVDDTAFPIIDGVPEGANGTCVILHLNNEDSEYATRWRIEEIIKTYSDHIAFPIYLHFTEKQYDDKGKVKSEASKTEQINDAGAIWQKPKSELKEEDYFNFYKSLSHDSQEPLLYVHTKAEGTQEYTTLFYVPSKAPFDMFHADYRPGVKLFVKRVFITDDEKELLPTYLRFVRGVIDSEDLPLNVSREILQQNRILSNIKNASVKKLLGEFKKLAENDKEKYNKFIAEFNRPLKEGLYSDYEHREELADLVRFKTTSPEVKEDEWTSFADYVSRMKSDQKAIYYITGEDEKTLRQSPHLEVYKQKGFEVLIMPDEIDDIIIPSLGKYKDWELKAANRAGSDKELNTEEETKEAEKKEKDFKPVLEKIKEVLGDKVKEVRFSKRLSDSPSCIVVDETDPSLQMERMMRAMGQFNTSAVKPILEVNADHPLVQKLKDSKDKEFVEDMSNLLLEQALLVESGELKAPVDFVKRLNRLMTNLK |
| 1708 | sp|B1LL12|IBPA\_ECOSM | MRNFDLSPLYRSAIGFDRLFNHLENNQSQSNGGYPPYNVELVDENHYRIAIAVAGFAESELEITAQDNLLVVKGAHADEQKERTYLYQGIAERNFERKFQLAENIHVRGANLVNGLLYIDLERVIPEAKKPRRIEIN |
| 1709 | sp|A9MWJ6|IBPB\_SALPB | MRNYDLSPLLRQWIGFDKLANALQNSGESQSFPPYNIEKSDDNHYRITLALAGFRQEDLDIQLEGTRLTVKGTPEQPENEPKWLHQGLVMQPFSLSFTLAENMEVSGATFTNGLLHIDLTRNEPETIAPQRIAINERSALNS |
| 1710 | sp|Q980G0|IF6\_SACS2 | MNLQRLSVFGTDNIGVYIYTNNKYTIIPRGLDSETKENIAQVLGTELLEAEISRSFLLGIFISGNDNGILLPKSTIDDEFRFLKENLRDCRVEILNSKVTALGNTILANNKAALIYPEFNDIEEKIIKETLGVEDIKRGKIAQMITVGSVGVITNKGGLVHVDTSEKELKELEKLFGVKIDIGTVNFGSVFIKSGLVANDKGTLVGASTTGPEILRIQKALGE |
| 1711 | sp|B7MD41|IRAP\_ECO45 | MKNLIAELLFKLAQKEEESKELCAQVEALEIIVTAMLRNMAQNDQQRLIDQVEGALYEVKPDASIPDDDTELLRDYVKKLLRHPRQ |
| 1712 | sp|Q8FKE1|IRAP\_ECOL6 | MKNLIAELLFKLAQKEEESKELCAQVEALEIIVTAMLRNMAQNDQQRLIDQVEGALYEVKPDASIPDDDTELLRDYVKKLLRHPRQ |
| 1713 | sp|Q5N712|JM705\_ORYSJ | MRPSPPPAAPAAEPVPPWLRSLPVAPEFRPTAAEFADPVSYILKIEPAAAPYGICKVVPPLPPPPKKATFSNLSRSFAALHPDDRSPSFPTRHQQVGLCPRRTRPGLKPVWRSSHRYTLPQFESKAGATRKSLLAGLNFPASRQLTPLDHEVLFWRASADRPIVVEYGSDMSGSGFSPCAAQPQPPPQQQPTARAAAHLGETAWNMRGVARSPGSLLRFMPEDVPGVTTPMLYVGMMFSWFAWHVEDHDLHSLNYMHLGAAKTWYGVPRDAALAFEDVVREHGYGGEVNPLETFATLGQKTTVMSPEVLVESGIPCCRLVQNAGEFVVTFPGSYHCGFSHGFNCGEASNIATPEWLRIAKEAAIRRASINRPPMVSHYQLLYDLALSMRFREPSNGEMETRSSRIKEKKKCEGEQLVKKMFIQNVIEDNELLSHLLNDGSSCIILPANAHDGPGLSTLRSTDQSNMNSRISHNLCSREEAPEASGCLSPNRNGDTRNCISSDTHNMEGDKGDIMSATGLLDQGLLSCVTCGILSFSCVAVLKPRDSTARYLMSADSNSINNQLSISGGSILADAPTNERNGVISRPYSEHCCNEIMADDAEIDKNSALDLLAFAHGGQPDPEEDPLEKILKIAHGINKSQPNSSNNVGCVGTKLSSSSTERQERPSSQNAHCNGSSVISNGPKGVRTRNKYQLKMVLSEGFQAKDIYSAKEKKVQSEPSSSKGDVKETIDVSGTENDVGCKSTTISVSEHRGSTKNMYSVKEKKVQSKPSSLKGTVKETVDVSGTENDARCKSITISVSEHRGSTPMTNSLAASIVKPDKDSSRMHVFCLEHAIEVEKQLHAIGGSNIMLICRPEYPKIEAEARLLGEEMGLVYDWKGIHFKEANMEDRQKIQEVLRDEEAIPTSSDWAVKLGINLYYSANLAKSPLYNKQMPYNRVIYRAFGCDSPNDSPVMFNTCERKQSHQKKIVVAGRWCGKVWMSKQVHPYLAHRVESQEAEEADRICSYHFDEKHKAEPVGNSSRVEASKRKSSSLTDVTESSNRRGEIPGEETNTKRPKHSQENNLRALETAAEVVVPSPAGTGLRVSSRIANRANKLKSKMEKEDVPSSRPKSNIKEKSSHASGQKSNVQEANANSASHLRAMPPKQKAEAEAKKQIRTPKPPKQAVEYSCDIEGCSMSFRTKRDLSLHKSDICPVKGCGKKFFSHKYLLQHRKVHTDDRPLTCPWKGCNMAFKWPWARTEHLRVHTGDRPYVCHEPGCAQTFRFVSDFSRHKRKTGHSVKKKKKAKS |
| 1714 | sp|P52643|LDHD\_ECOLI | MKLAVYSTKQYDKKYLQQVNESFGFELEFFDFLLTEKTAKTANGCEAVCIFVNDDGSRPVLEELKKHGVKYIALRCAGFNNVDLDAAKELGLKVVRVPAYDPEAVAEHAIGMMMTLNRRIHRAYQRTRDANFSLEGLTGFTMYGKTAGVIGTGKIGVAMLRILKGFGMRLLAFDPYPSAAALELGVEYVDLPTLFSESDVISLHCPLTPENYHLLNEAAFEQMKNGVMIVNTSRGALIDSQAAIEALKNQKIGSLGMDVYENERDLFFEDKSNDVIQDDVFRRLSACHNVLFTGHQAFLTAEALTSISQTTLQNLSNLEKGETCPNELV |
| 1715 | sp|Q5H432|LON\_XANOR | MQHLADGPITGPSAFLFPQIPIPAERPMAQSQPEVLDLPVLPLRDVVVFPHMVIPLFVGRDKSMRALEKAMEADKRILLVAQKSAETDDPAAVDLHTVGTLAQVLQLLKLPDGTIKVLVEGLSRVTVDKVVEQDGALQGQGTEVEASDAREPREVEAIARSLMSLFEQYVKTNRKLPPELLQTLAGIDEPGRLADTIAPHIGVRLADKQRLLEITDIGERLELLVGLVDGEIDVQQLEKRIRGRVKSQMEKSQREYYLNEQMKAIQKELGDLDDVPGELEELARKIAEAGMPKPVETKAKAELNKLKQMSPMSAEAAVVRNYLDWLLGVPWKKRTKVRKDLKVAEDTLDADHYGLDKVKERILEYLAVQSRVKQMKGPILCLVGPPGVGKTSLGQSIAKATNRKFVRMSLGGIRDEAEIRGHRRTYVGSMPGRLVQNLNKVGSKNPLFLLDEIDKMSMDFRGDPSSALLEVLDPEQNNSFNDHYLEVDLDLSEVMFVATSNSLNIPGPLLDRMEVIRIPGYTEDEKLNIAMRYLVPKQIKANGLKPEEIEIGGDAIQDIVRYYTRESGVRNLEREVAKICRKVVKEIALAGPQPAAKKAVAKKGKPKALVTVNAKNLDKYLGVRRFDFGRAEEENEIGLVTGLAWTEVGGELLQVESTLVPGKGNLILTGQLGNVMKESASAALSVVRSRAERLGIDVDFLQKQDVHVHVPDGATPKDGPSAGIAMVTSLVSVLTKVPIRADVAMTGEITLRGRVSAIGGLKEKLLAALRGGIRTVLIPGENRKDLADIPANVTRDLKIVPVKWIDEVLDLALERPLTPKKAGKEKARKTAPRVAVRGKSRSTPGTRVKH |
| 1716 | sp|P25491|MAS5\_YEAST | MVKETKFYDILGVPVTATDVEIKKAYRKCALKYHPDKNPSEEAAEKFKEASAAYEILSDPEKRDIYDQFGEDGLSGAGGAGGFPGGGFGFGDDIFSQFFGAGGAQRPRGPQRGKDIKHEISASLEELYKGRTAKLALNKQILCKECEGRGGKKGAVKKCTSCNGQGIKFVTRQMGPMIQRFQTECDVCHGTGDIIDPKDRCKSCNGKKVENERKILEVHVEPGMKDGQRIVFKGEADQAPDVIPGDVVFIVSERPHKSFKRDGDDLVYEAEIDLLTAIAGGEFALEHVSGDWLKVGIVPGEVIAPGMRKVIEGKGMPIPKYGGYGNLIIKFTIKFPENHFTSEENLKKLEEILPPRIVPAIPKKATVDECVLADFDPAKYNRTRASRGGANYDSDEEEQGGEGVQCASQ |
| 1717 | sp|O42376|MK12\_DANRE | MTARSRPGYFRQEINKTIWEVPDRYKDLKQVGTGAYGTVCYALDRRTGAKVAIKKLHRPFQSDLFAKRAYRELRLLKHMKHDNVIGLVDVFTADLSLDRFHDFYLVMPFMGTDLGKLMKMERLSEERVQYLVYQMLKGLKYIHAAGIIHRDLKPGNLAINEECELKILDFGLARQTDSEMTGYVVTRWYRAPEVILSWMHYTQTVDIWSVGCIMAEMLLGKPLFKGHDHLDQLMEIMKVTGTPSKEFTAKLQSEDARNYVTKLPRFRKKDLRILLPNVNPQAIKVLDGMLLLDPESRITAAEALAFPFFSEFREPEEETEAPPYDHSLDEADQSLEQWKRLTFTEILTFQPAPAVAESKETAL |
| 1718 | sp|A1TEL7|MPRA\_MYCVP | MPVRILVVDDDRAVRESLRRSLSFNGYSVELAQDGREALDLIASDRPDAVVLDVMMPRLDGLEVCRQLRSTGDDLPILVLTARDSVSERVAGLDAGADDYLPKPFALEELLARMRALLRRTTPDDGAGESAAMTFSDLSLDPVTREVTRGDRPISLTRTEFSLLEMLIANPRRVLTRSRILEEVWGFDFPTSGNALEVYVGYLRRKTEAEGEPRLIHTVRGVGYVLRETPP |
| 1719 | sp|Q9XIN7|NAC40\_ARATH | MSKEAEMSIAVSALFPGFRFSPTDVELISYYLRRKIDGDENSVAVIAEVEIYKFEPWDLPEESKLKSENEWFYFCARGRKYPHGSQSRRATQLGYWKATGKERSVKSGNQVVGTKRTLVFHIGRAPRGERTEWIMHEYCIHGAPQDALVVCRLRKNADFRASSTQKMEDGVVQDDGYVGQRGGLEKEDKSYYESEHQIPNGDIAESSNVVEDQADTDDDCYAEILNDDIIKLDEEALKASQAFRPTNPTHQETISSESSSKRSKCGIKKESTETMNCYALFRIKNVAGTDSSWRFPNPFKIKKDDSQRLMKNVLATTVFLAILFSFFWTVLIARN |
| 1720 | sp|A1CKE0|NST1\_ASPCL | MSTAAPAASATNSAIPAQKEFSLPPSTDTVSVPVNRKKQKRRQKQAARLAAERQSNGHISPDAATQNGSSPAADPEGYHSDEFGDVDQEQLSNGDANHKDDQDSVDAHDDYQYPGNGSEGLQKPTGRKSKKKKGKKGPNGTHAPEDETATHASTPSVSMSHPLPPTLPSHLGPRPILKPAKTRSIWNTSTQEERENIKTFWLELGEEERRQLVKVEKDAVLKKMKEQQRHSCSCTVCGRKRTAIEEELEVLYDAYYEELEQYANHNQGSFEKGPPIVPPPRLYQPPLRSPGQHTRTQGQFHPSRGRIHEVPEEEDDDDLEEDYDEDEEDDEPYSDEDSDDEDDEARAARADFFAFGNSLTVKDGILTVADDLLKNDGKHFIDMMEQLAERRMQREEDTQYGIAAAHQSLHSGHNHGPFDEEDYDEEEDEDYDSQEDEDYEEDEMDTMTEEQRMEEGRRMFQIFAARMFEQRVLTAYREKVAEQRQQKLIEELLEEETRNEQRNAKKAREAQKRKDKKKLQKQAKEEERARREAEKAAEEAAAKAEQEKKLEEQRKKREEQRKKKEADRKAQEEERARKEAEKLRRQREERERQAEVERKQREEKKRREEARRKEKEERELREKKAKEEQLQKDAAKAEEAAKEREKREYQAKRTSPFSSNQHPQISSSPVAHSPHIQSGIPVVPKAPTPARPRQPSQQDSHTSSPHSQPASTDPSQASVSPRSMPISQSSGASSVASKHVHGLHAMFHQPQPSAPLSPLGRSIPPGFSAMNGLPPGPPGLTGILGRPPMAHELPVYPPHSGPFIGQFRGYPTPNGIPAAPGINGARAMPPGRGFPLESAHGFPFHGQQQIPGAFSAQQSGLPHGHSRQPSGSFERSPLEGQTQPMPISRPSPIKRPSSTQQDQRKNGDRTAQRDVDDLSAHLGSSALLDDTDVPFASTLSQSLPGATAPGPLPGPARASFGGPSLFPDPLSTSGWSNNAFGSGVHHRAHTSRPVAIRLLVIQACKQLNTMSPFKGADGFHDVSLVLRQVEQLRPQNEPSISLKEMLDICDTEGSTQNGGGSFSTKKDETGEFVKFEPDNNSAASGHRGSIVPGEIGSPVPSSSLPAFGGIGTPSVLRQFSSPPMGF |
| 1721 | sp|A5DLJ8|NST1\_PICGU | MDTTFGNGECEMFTSPHQKFCATQTSPSNMKEPDEPGVALKNGQGVHFDYHMHPEARKDSESTVVAGESHSEMPISSNGHNGTIAVPEGYGANSNGTSNKKKKKKSKKRHIDATINDPDAEYPTSRVIKQAPNGDVIVESLEDEHHDHHSNLSATIWDNSTIEEQEDLKRFWESLEEPEKVKLVKIDKKSILDLFRTFSSNQQGGQPTHHSPASSSTSLAGTPHHGCTCSSCGRRSSIIEAELEMIYDNHFDDIIDFIHEVRDIKDLNALPGLLFGGFHMLEEEHRMKKTRARRRSTDLQPQTRISPITSSTDGPPEPTTTSNVSTPSHSESVSSPSPWTNAVAGLLEKFLQENPGASWNKCSQLFQEIQEAGNQVNPGNGSSEGSDRENDDKKTAFLKDFGEMISGGFNDMTSGKQEQFHENFANGIHKIANDFLNNDGKSFVEMVEALSGSRSERADLLKSLQEIEDHSNQQEQPGTVREQIEELHDEEPVIPEDIQNQPKEVVGQYVDQRINQLSELRDRLEEEYDYDTYDDPEYDNQEYDEELSDTESEISEEEKMQEIRRLFLIQVIKLFQERLKNAYKEKLSQDRTRRLIEELEAEENAKKEKELKKLKQKEKAKEKKRLQQVAKDEERRRKEEEERAREEELRLKQEELRAEQKRRKEEARQKKEEEKRKRIEELRLKKEAEKKKQEEKERKERELKEKKERESKEKEEREMMEKKEQLKKEQQPKVEQTQEKPQAPPSQTSQSNPSVSDPISSRQDNSVSSLDPTHDLQNAISSGLEQLSLGQQPMSHISSQPSQSISQLPIQPPSQPFLDMDQIRSPVTAPAMPTQAQMPQSARGSLWGQPVNNFSPFSEGVWGSRNNSIWGNSSMSGGSIGSGTMGSGTIGSGTIGGSASIWGSQTPTLANTTMGMGLQSGINGIQGLSLEKENGSASIAGTPGNSLPGNSLPPISRNSLSGNSIPGSIPSSIPGNLSGSLPGNLSGSIPGSLPGNLAANSLPGMSPSMSVPLPQPFPANVDNEMIRTAAYQAFMLLQNSNQLEYGLAAAVKLYQTTILVLSMEVSFSQFLGSCRDDIESSYRFDYVYDDYGAVSHIKASLRSSLWN |
| 1722 | sp|A3LYI0|NST1\_PICST | MSDTTDSTSRFRLGDDIHFSYDNQSQPTTSESPAPSSSNKKKKKKANKKHKQPVEATLNNPEDDYPTSRVIKQAPNGDVIVESLDDEASHQNQENHRHHHQYTNIWDSASIEEQENLKSFWESLDESSKMELVKIDKKSIMEIFKNETKANNQSHHGHGANGTSSASGANSAANANPVTPSCACKYCGRRSTIIEDELENIYDNHFDDIIDFIHEIRDINDLNALPGLLFGGFHMLEEEHKLQKRQQRMKHKRDHPASQNHTENPEVHGEHPHVQPQNFVNSRAPADSINTSVVDNRTPYPVAAGSIGAKQLQHQQQLQQQLQQQQLRQLQQQLQQEQNVHSQPQQSLQMQQQLNENDLPGGNTSDLAKHLEKMSLEDKKGEYTNERKIFQKLLDPKLVEVLDKVDFEKVKSGNYVGSASQANLFQRADCLREIVRDLHKADKTQLEQGLSFLKNISSIFSNSKTPFPADVTSNPRNFSSKFNDQLSNFAEDLLKNDGNSFIEMMESLSESRTAREDLLKDPTKKDAQAWVDEDDNNDSKRPDASTVKQPSQEYEYYEESEEDEEELSEEDEDDADDNGLNEDDDLVQDGHHDDSASDTESEISEEEKMQEIRRLFLIQVIKLFQERLKSAYKEKLSEDRTQKLIEELEAEENAKKERELKKLKQKEKAKEKKRLQQLAKEEEKKKKEEEQRAKEEELKQKQEALKADQRRRKEEAKLKREEEKKKRIEELKRKEEEHKKKVEAQQKKEEEAKKLKEERKKKAEEERKKKEEEKRQKELLKKQKEEERERLKLEAEENERLEKEQQELQELQESQNQLELESAQLPAELAEEINASPDSFSPTKNHLLEQLYQARPSSVSGPTTISPPIQFTPEAVPPVAAVSSVVPSVVPISPALSGAILNGTGSPNSRNAMLYGSSAQAQLPNGLNSSTSNMSPWSSKSRLNSTSGASLQSNLFQPQLSASGFSPFNDFSTPATSAGIGSVNVNAPLASTAVEPLAGANNGGVWNPSTTSSRNNSIWSNTPNLNNASIWGNTLPSLAGGAGAGASTPSAAHTLPNSAPLASDNELIQVAAYNTFQMLQNSNQLEFGAAPLMKLFSGVKLLLGNNALTINQLLSSCDSTSVYHFEFVYDDFGTVTHVKVNFNNGGLAQSLQSQAAPTLLNNTLATSAAGLRSSPPPGLGTKASTGSVPLSQFRFNINDANSPLLSNLGDWSSGNNSTNANGNSSNGGSRGLWN |
| 1723 | sp|Q5A2K0|NST1\_CANAL | MSDIMDRVDNSTRKFKLGDNIHFEISSSANTQGNSHQIPRKQSQSTNSNHQEQSQQARNQSSQSNTNTTSRKKRKKHKKKSKISTVQAHLNNPEDDYPTSRVIKQAPNGDVIVESLEDEDENHHHHEYEEHEDSCEYHPSSKSNTRKNSSVNESTHNKIWDSASIEEQQRLKEFWESLDESKKLDLVKIDKDSIMRMFKNETRHHLQQQLSSSVSSQPQQQQSQQNVSTSSNNGSSSGINNNSNNNNGNNTNSCACKYCGRRNSIIEEELESIYDNHFDDIIDFIHEVRDINDLNALPGLLFGGFHMLEEERRLQKRQQKYKEKWNHSHHSTSVSPQPESQDNKQLKKSQDQNEMKAISIEDEMDKFKSHLAKMSISNSQSNPNQLSEIHLQLKSEDGNLTGTTESQLFNKLLDPKLFEALENMDLDKMKEMSKMDPKNLNNVNILEKATSLREIVRDLNNADRSSLQKGISHVSNMGKFFSNLATLNNAQNLPEIVASGGLDDQLSKGLSSFAEDLLKNDGNSFIGMMEALSESRTAREELLKETVISQNPQEQKSVSIGQSDQSGDVWVDDDDENNRVDVEIHACDNPHHHHHHHQHSNKQHDHHHCHNHRHRHRRRFEELDDEHDQENEDEELEDDEEDYYDEYDDDEEEDEEEDEDDDDIEEEGASDTESEISEEEKMQEIRRLFLIQVIKLFQERLKNAYKEKLSQDRTQKLIEELEAEENAKKERELKKLKQKEKAKEKKRLQQLAKEEERKRKEEELKAKEEEQRLQKEKLKAEQKKRKEEARLKKEEEKKKKIEEQKRKEEEHRKKVEAQQKREAEAKKLKEERRRKAEEERKQKEEEKKQKELLKKQKEEEKRQKELLRKQREEEKEKEAARLEEERTKLMVNDDDELARQIEVEKSKLSAAVANNPLLNHLYQPSPGSAPTTPSTANLPALSPLQSASAKLMSQQFEQQHLQQVSQEKLPQTSNIQSPNQQPHPSISSFQFSSEYNSNASVFHNNSSLLSNPSIMNSPRTTSTNLLNGNSPIVPNVTTNISLGATNTSNLSPWSSKSRLNSLSNSTQPFIGGNQFTQTNTASFNGVGNAVQQSGNFSPFNAFSDPLVSDAFKAAGPAGMNSNIWLNSSNVGNNSGNQSGISAPTTTSTNTSSRNNSIWGNTNPNKVTEPSLLNNNNNNNNGLISVESSGLWNSNGGNNQPARSSSVTGISSNLSTINPISSMDIELIQSTTFNCFQILQNSGQLEFGVAPLMKLFQNVKTILNKPSLTINQFLNCCTINSNVYIFSLKYDDFGNVTHVEVAYKNVPRTSPPPPPGNIVQNQHQVSSPSFAAATASSSSLATSNVPLGFINSGGSPTGLFNDININHGGTSFLPPIGESSTNDAGSSNVGNSGFGRRLWN |
| 1724 | sp|P27986|P85A\_HUMAN | MSAEGYQYRALYDYKKEREEDIDLHLGDILTVNKGSLVALGFSDGQEARPEEIGWLNGYNETTGERGDFPGTYVEYIGRKKISPPTPKPRPPRPLPVAPGSSKTEADVEQQALTLPDLAEQFAPPDIAPPLLIKLVEAIEKKGLECSTLYRTQSSSNLAELRQLLDCDTPSVDLEMIDVHVLADAFKRYLLDLPNPVIPAAVYSEMISLAPEVQSSEEYIQLLKKLIRSPSIPHQYWLTLQYLLKHFFKLSQTSSKNLLNARVLSEIFSPMLFRFSAASSDNTENLIKVIEILISTEWNERQPAPALPPKPPKPTTVANNGMNNNMSLQDAEWYWGDISREEVNEKLRDTADGTFLVRDASTKMHGDYTLTLRKGGNNKLIKIFHRDGKYGFSDPLTFSSVVELINHYRNESLAQYNPKLDVKLLYPVSKYQQDQVVKEDNIEAVGKKLHEYNTQFQEKSREYDRLYEEYTRTSQEIQMKRTAIEAFNETIKIFEEQCQTQERYSKEYIEKFKREGNEKEIQRIMHNYDKLKSRISEIIDSRRRLEEDLKKQAAEYREIDKRMNSIKPDLIQLRKTRDQYLMWLTQKGVRQKKLNEWLGNENTEDQYSLVEDDEDLPHHDEKTWNVGSSNRNKAENLLRGKRDGTFLVRESSKQGCYACSVVVDGEVKHCVINKTATGYGFAEPYNLYSSLKELVLHYQHTSLVQHNDSLNVTLAYPVYAQQRR |
| 1725 | sp|A5DE24|OCA1\_PICGU | MSRKVVQPPSLRIIPPLNFCPVEKQLYRSGQPSIINQSFLQDLNLKTIIWLASEEPQEEFLDYCSMNSINIEFVGMINDDYSYQNVNPWDSLNETTIKKALELICDRNNYPMLVCCGMGRHRTGTVIGCLRRLQGWNLASVSEEYRRFTGARGGRILVELLIEGFDISTVEIGSGKGSSMARKKR |
| 1726 | sp|P17784|ALFC1\_ORYSJ | MSAYCGKYKDELIKNAAYIGTPGKGILAADESTGTIGKRFASINVENVEENRRSLRELLFCTPGALQYLSGVILFEETLYQKTKDGKPFVDVLKEGGVLPGIKVDKGTIEVAGTEKETTTQGHDDLGKRCAKYYEAGARFAKWRAVLKIGPNEPSQLAIDLNAQGLARYAIICQENGLVPIVEPEILVDGPHDIDRCAYVSEVVLAACYKALNEHHVLLEGTLLKPNMVTPGSDAKKVSPEVIAEYTVRTLQRTVPAAVPAIVFLSGGQSEEEATLNLNAMNKLSTKKPWSLSFSFGRALQQSTLKAWSGKAENIEKARAAFLTRCKANSEATLGTYKGDAVLGEGASESLHVKDYKY |
| 1727 | sp|G5CTG1|AQP4\_MILTA | MSKVPPTDPFSHMLNGNLQQRIVKRDIDGEVPTERAVTDLASEKAHAIATHGEVVIQIQHSDTFGMDKEKNDWRSRAARMLYIESRLVREGLSESLAMFFFMSLLLGCAATARFTGNQNDPMLAAFYHGFSIIFAIYVAGGISGGLLNPAITFTIAFLGRLSWLRCLIYMSAQYFGAFIASAVVYLIYYDSLQNFSGANKVDETGANGTAGIWSTFPRPYLSLRGAIFNQIFCTMLLTIGFLSICDFRNSRPDKGMFPFAVGMLIMTVFLAFSYSAGAAMNPARDISPRLWTLIVGYGDEVFSYNNYKWFWIPWLFPYVGALLGGVIYEIFIGIHWPKDYANKHVTNRT |
| 1728 | sp|P54146|AMT\_CORGL | MDPSDLAWILAAFALVSLMFPGLSLLYGGMLGGQHVLNTFMMVMSSLGIISLVYIIYGHGLVLGNSIGGWGIIGNPLEYFGFRNIMEDDGTGDLMWAGFYILFAAISLALVSSGAAGRMRFGAWLVFGVLWFTFVYAPLAHWVFAIDDPESGYVGGWMKNVLEFHDFAGGTAVHMNAGASGLALAIVLGRRHSMAVRPHNLPLILIGAGLIVAGWFGFNGGTAGGANFLASYVVVTSLIAAAGGMMGFMLVERVFSGKPTFFGSATGTIAGLVAITPAADAVSPLGAFAVGALGAVVSFWAISWKKGHRVDDSFDVFAVHGMAGIAGALFVMLFGDPLAPAGVSGVFFGGELSLLWREPLAIIVTLTYAFGVTWLIATILNKFMTLRITSEAEYEGIDRAEHAESAYHLNSNGIGMATRTNFGPEIPEETVPDAVQVGVDKQKIADTRKASK |
| 1729 | sp|O82775|ATI1\_ARATH | MANNEEHPPRGNEWEVVSLTSSAYAAAPGPYNVESRDVRKYDAYYGAETSRDLYMSEHFVFPPSEHENLPIDESLFVAEQRKDGRDLMLEGQGLSDQFHYEAGNNQQSIYGESALGSSRHMESFGSESAVYEHGLVDAEGNLDLHSDGEGEKDVKKSTHNLPCEAWWKRRAISMYSRTREANAIWSLFFAAAVTGLVVLGQRWQQERWQVLQLKWQSSISSEKLGRVLEPLSRLKDVIVRSNPQASLVRSGSSSEV |
| 1730 | sp|A9VR02|HFQ\_BACMK | MKQSINIQDQFLNQLRKENTFVTLYLLNGFQLRGLIKGFDNFTVLLETEGKQQLIYKHAISTFVPQKNVSIELE |
| 1731 | sp|B2V268|HFQ\_CLOBA | MNKQQNNLQDIFLNSARKNKIPVTVYLSTGFKLNGIVKGFDSFTVILDSEGKQMLIYKHAITTVTPEKPILFVDNES |
| 1732 | sp|A1WUT6|HFQ\_HALHL | MAKGQSLQEPFLNTLRKEKVPVSIYLVNGIKLQGQIESFDQFVVLLRNNVNQMVYKHAISTIVPARRVRLPQQGEEASAESIVGEEESNN |
| 1733 | sp|Q72QA1|HSP15\_LEPIC | MTNAVLNEKNHSVTSEETKKERVRILAPRVDIYSDEENIYLLADLPGVEEKDVQVQLEKDQLIISGKTSNKDIQGELRYSEFRTGEYKRTFTLTESVEEDRISAVYKNGVLNLTLPKRKPLTKKIEVRSE |
| 1734 | sp|P23894|HTPX\_ECOLI | MMRIALFLLTNLAVMVVFGLVLSLTGIQSSSVQGLMIMALLFGFGGSFVSLLMSKWMALRSVGGEVIEQPRNERERWLVNTVATQARQAGIAMPQVAIYHAPDINAFATGARRDASLVAVSTGLLQNMSPDEAEAVIAHEISHIANGDMVTMTLIQGVVNTFVIFISRILAQLAAGFMGGNRDEGEESNGNPLIYFAVATVLELVFGILASIITMWFSRHREFHADAGSAKLVGREKMIAALQRLKTSYEPQEATSMMALCINGKSKSLSELFMTHPPLDKRIEALRTGEYLK |
| 1735 | sp|P05478|HSP16\_SOYBN | MSLIPNFFGGRRNNVFDPFSLDVWDPFKDFPFPNTLSSASFPEFSRENSAFVSTRVDWKETPEAHVFKADIPGLKKEEVKVQIEDDKVLQISGERNVEKEDKNDTWHRVERSSGKFMRRFRLPENAKVEQVKASMENGVLTVTVPKEEVKKPDVKAIEISG |
| 1736 | sp|P0A6Z4|HTPG\_ECOL6 | MKGQETRGFQSEVKQLLHLMIHSLYSNKEIFLRELISNASDAADKLRFRALSNPDLYEGDGELRVRVSFDKDKRTLTISDNGVGMTRDEVIDHLGTIAKSGTKSFLESLGSDQAKDSQLIGQFGVGFYSAFIVADKVTVRTRAAGEKPENGVFWESAGEGEYTVADITKEDRGTEITLHLREGEDEFLDDWRVRSIISKYSDHIALPVEIEKREEKDGETVISWEKINKAQALWTRNKSEITDEEYKEFYKHIAHDFNDPLTWSHNRVEGKQEYTSLLYIPSQAPWDMWNRDHKHGLKLYVQRVFIMDDAEQFMPNYLRFVRGLIDSSDLPLNVSREILQDSTVTRNLRNALTKRVLQMLEKLAKDDAEKYQTFWQQFGLVLKEGPAEDFANQEAIAKLLRFASTHTDSSAQTVSLEDYVSRMKEGQEKIYYITADSYAAAKSSPHLELLRKKGIEVLLLSDRIDEWMMNYLTEFDGKPFQSVSKVDESLEKLADEVDESAKEAEKALTPFIDRVKALLGERVKDVRLTHRLTDTPAIVSTDADEMSTQMAKLFAAAGQKVPEVKYIFELNPDHVLVKRAADTEDEAKFSEWVELLLDQALLAERGTLEDPNLFIRRMNQLLVS |
| 1737 | sp|Q89CK8|HTPG\_BRADU | MTTSDSAVHTQPFQAEVSELLHLMVHSVYSETDIFLRELVSNASDACDKLRYEAIESPALLGEGDALKIRIIPNKTAGTLTIADNGIGMERQELIDHLGTIARSGTKAFVSKLKEAKDGLGLIGQFGVGFYSAFMVADKIIVVSRRAGESDVWSWTSSGGSGFEIARASEEDAARVTRGTEIVLHLKDDAKKYLETYEIERIVGAYSDNILFPIELVPEEGEPRQINSASALWQRSKSELSAEDYKKAYQQIASAFDDPAMTLHYRAEGRYSYAVLLFAPSTKPFDLFEPSRKGRVRLYVRRVFITDDADLLPGYLRFIRGVVDSEDLPLNISREMLQNNPQLVQIRKAVATRVVSELEGLAEKDAENFAKIWDAFGAVLKEGIYEDFERREKLLALSRFTTTTGEKRSLKQVVADFKPNQTEIYYLVGDSIERLKSNPRLEAATARGIEVLLLSDPVDAFWTSMPTEFEGKPLKSLSQGDLNLDLIPRVDATDEAKKDEPEADEAATIAVIKAALGERVSDVKASTRLTSSASCLVADSQGPSRELERILSQQNRGMRAKPVLEINLRHPMVGAITKAQAGSKAVDDLSLLLLEQAQILDGELPEDPAAFAARLNRLVLQGLGG |
| 1738 | sp|P19242|HSP21\_PEA | MDLDSPLFNTLHHIMDLTDDTTEKNLNAPTRTYVRDAKAMAATPADVKEHPNSYVFMVDMPGVKSGDIKVQVEDENVLLISGERKREEEKEGVKYLKMERRIGKLMRKFVLPENANIEAISAISQDGVLTVTVNKLPPPEPKKPKTIQVKVA |
| 1739 | sp|P57555|HTPG\_BUCAI | MKTQKKEVYNFQSETKKLLHLMIHSLYSNKEIFLRELISNSSDAIDKLRFESISSPELYENDSDVKIQISINKAQRTLIISDNGIGMTKEDTIENLGTIAKSGTKSFLQSLEQKQNKKNELIGEFGVGFYSSFIVSEKVSVRTRFAGLESNKGILWESSGEGEYNITNIVKKTRGTEITLFLKKEEEEFLETWRIKNIISKYSDHITIPIHIQDYDKKNKTYFWEQINKAKALWTLNKSSITEEEYKDFYKHLTNDQNDPLIWSHNHVEGNQEYISLLYIPEKAAWDIWNRDNKHGLKLYVKRVYIMDNSQAFLPNYLRFIKGLIDSSDLPLNISREILQDNSITEKLRKSLIKKSLSMLEKLAQKNNEKYQIFWNQFGLVLKEGPAEDHENLNKIANLLRFTSMKSNNSEQKMSLKEYISNMNEQQEKIYYITADSYSSANNSPHLELFKKNNIDVLLLSDRIDEWMMNYLSEFEGKKFQSISKEDISLNKLTKEKKIKNKDVSTEMIEFLKKVKNILGNQVKDVRLTHRLTETPCVLLSDSTEMTTQMAKLFSAAGQSVPELKYIFEINPDHILIKKICTINNENELHQWIKLLLDQALLAEKGNLENPHKFISRMNKLLIK |
| 1740 | sp|Q5HBT2|HTPG\_EHRRW | MQGTVNSERLKFDAEVGKVLKLVIHSLYTNKDIFLRELISNASDACDKLRYQSLSNQDLMDAGSELKIVISVDKDKNRLYISDNGIGMNREDLINNLGTIAHSGTQKFLDAINSGASSQQGVVELIGKFGVGFYSAFMVASEVIVESCKAGESVGYQWKSSGDGEFVISQLESDQVSRGTRITLALKPEECEFVDKFRIEHIVTTYSYHINYPVYFLNDKGEEERLNSEAAIWTKAKDEISAEEHQNFFRTVAHVGGEPWMILHNKNEGVIEYTNLLYIPSIKPFDLFHPDRKCSVKLYVNKVFITEDNVQIIPQYLRFLKGIIDSSDLPLNISRETLQNNKIIEKIKRSLVKRVLSELKKKAESNIEDYTKFWDNFGSVLKEGLCESMNTEFREELISVCRFYSTHSNDSLISLEDYIERMKPEQNNIYYLTGNDLDSIKKSPQLEGFVSRGIEVLLLVDPVDDFWTNVVTDYQKVPLRSVIRADEDLEKFSDVEKDDESKESQNEDAQSKEKVDKFISYAAQVLTNLVSNVRVSKKLTDSPVCLAVADGSMDIRMERFLREQKQLNYKSTKILEINSKHPIVSKMIDQYAENGENAVLCNMLHLLLGQACILEGEELQNVSDFAERMNNVLSQIN |
| 1741 | sp|Q0SVV8|HTPG\_CLOPS | MEKREFKAESKRLLDIVINSIYTNREIFLRELISNASDAIDKVYYKTLGDSSLTFNKDDYYIKIKPNKEERTLTISDKGIGMTEKELDENLGVIAKSGSLQFKKENEIKDGFDIIGQFGVGFYSGFLVADKITVITKAFGADKAYKWESDGVDGYTISEAEKDSFGTDIILHLKANDEDENYDEFLEEYKLKSLIKKYSDFIRYPIKLDVTKSRVKEGTENEHEEYVEEETVNSMVPLWRRNKNELTDDDYNNFYVEKRFGFDKPLRHMHISVDGMISYNSILYIPENIPYDYYTKEYEKGLELYSNGVLIMEKCSELLPDYFGFVKGIVDSQDLSLNISREMLQHDRQLSRIAKNIKTKIKNELESMMKNDRESYEKFYKSFGRQLKYGVYDDFGMNKDELKDLLMFYSSKEKKMVSLAEYVERMAEDQKYIYYAVGESNERIEKMPQTEMVLDKGYEILYFTEDVDEFAIKMLMNYKEKEFKSVSSGDLGIESEEENKKENEENKGIFEAMKEALGEKISAVKASSRLKNYPVCLSSEGEVSIEMEKILSAMPNNQGVKAQKVLEVNTNHEVFNSLKDALENDRDKFNLYTKLLYNQALLVEGLSIEDPVDFTNDICKLMK |
| 1742 | sp|Q83EL0|HTPG\_COXBU | MSLQPQAETLSFEAEVKQLLHLVAHSLYSNKEIFLRELISNSSDAADKLRYQALSDAALYENDADLKIWIDFDKDNRTITIRDNGIGMSREEVIENLGTIAKSGTRAFRELLAEKKAEDSQLIGQFGVGFYSAFIVADRVVVRTRRAGMKADQGVEWESTGEGEYTLKNIDKPTRGTEVVLHLKESEEEFLDPLRLRAIITKYSDHILLPIVMKKIKTSGADDEDKNETPEEEVVNRANALWVLPKDKIKDEEYKELYKHIAHDFEDPLAWVHNKVEGKLEYTTLLYIPARAPFDLWNREGQRGLKLYVKRIFIMDDAEHFMPMYLRFVKGIVDSNDLPLNISRELLQSNEVINKIKAGCVKRILSLLEDLAKNDKEKYASFWKAFGQVLKEGPAEDFANRDRIANLLRFASTHNDTDEQNVSLQDYISRMKPEQNKIYYIVADTYTSAKNSPLLEVFRKKDIEVLLMSDRVDEWLVAHLNEFEGKSLQSIAKGTLDLGDLEKEEKVETEKFEKDFDELLKQFKEVLGEKIKDVRITHRLTDSPTCVVFDENEMSGHLQRLLIQTGQDFMQAKPILEINPSHPLILRVKNESDKTRFNRWADLLLNQALLAEGEQLKDPASFVKGLNELLLDS |
| 1743 | sp|A9W1H7|HTPG\_METEP | MSETVERHEFGAEVGRLLDLVVHALYSDREIFLRELVANAADATDRRRFEALTNEALALPSDARVLIAPDKAARTLTISDAGIGMSKEDLAQNLGTIARSGTRAFSQALGERAAEGGEDQRPSLIGQFGVGFYSAFMVADRVTVTSRRAGSEEAWTWASDGKGSYTLEPASREQPGTDIVLHMKEDADEYLESYRLDHVVRKWADNIAVPIAIRDAEGKEEAANRGTALWRKPKSEITEEQYKEFYRTVSHGFDEPWATLHWRAEGALEFTGLLFVPSMKPFMPMEDDRRSKVRLHVRRMFITDEAELLPNWLRFVHGVVDTDDLPLNVSREMLQSTPTLQKIRRAVTTRVINELSSRSKNAEKAEEYQKFFENFGPVLKEGIYEDFERRGEIAPLLRFRSSTEGGWTSLPEYVARMKPEQEAIYYLVADDVEALKNSAQLEGFRARGVEVLLLSDHVDAFWPEQLGKFEDKPLRSVTQGSADLAKLKPEGETAEAAPALDTLVAALKLALEPDVSDVRTTDRLVDSAVVLATSGMGPDLQMQRLLRRAGRGFGGSAPILEINPRHALIRSLNERAEAGEDLKAEAGTLLDLARVQDGDTPRDPVAFARAVAAALAGTAAKPAESA |
| 1744 | sp|Q5WWX9|HTPG\_LEGPL | MVSKQQTMGFQTEVKQMLHLVVHSLYSNKEIFLRELISNASDALDKLRFLALSNGSLFENDSDLKISIQINEKLQTITISDNGIGLSWEEAVENLGTIAKSGTKEFISQLTGEQAKDSQLIGQFGVGFYSAFIVADKVTVKSRRAGLQPEDGIVWESKGDGEFTIGYEKKSTRGTEITLHLKPENDEFLSDWRIRGIISKYSDHICWPIVMKKLSEEGKESKEFETVNKATALWTLQKSEIGEEDYKQLYKHISHDYMDPLTWSHNHVEGKHEYITLLYIPAHAPFDLWQHEAKHGLKLYVKRVFIMDEATQFLPRYLRFIKGIVDASDLPLNISREILQDNKQVESIRAACTKRVLSMLEKMATNDKETYQKFWNEFGLVLKEGPIEDFANKEAIAKLLRFSTTASGSEKQEVSLEEYVSRMKEGQDKIYYITASSYNAAKNSPHLEIFRKKGIEVLLLSDKVDEWLVGYMNEFTGKKLQSISKGKVELGDDETSEQIKEQEKTLEPLIKHIKSVLNERVKDVLLTNRLTDSPACVVADEQDMGLEMQRILQAAGQQIPVSKPIFEINPEHALIKRLHDIQDDNQFELWVTMLFEQAVLAEGGQLDNPADFVNRVNRLLVSS |
| 1745 | sp|P0ACG8|HSLR\_ECOLI | MKEKPAVEVRLDKWLWAARFYKTRALAREMIEGGKVHYNGQRSKPSKIVELNATLTLRQGNDERTVIVKAITEQRRPASEAALLYEETAESVEKREKMALARKLNALTMPHPDRRPDKKERRDLLRFKHGDSE |
| 1746 | sp|B1YG43|HTPG\_EXIS2 | METKQFKAESKRLLEMMIHSIYTHKEIFLRELISNASDAMDKIYYKALTDETITFDKDAYKITIEPNKETRQLILRDTGIGMTKDELEENLGTIAKSGSLAFKAENESKDGHDIIGQFGVGFYSAFMVADTVTVVTKPFGSDVAYKWESHGVDGYTIEEVEKEMVGTDITLHIKANEEDENYDEYLEPYRLRSIIKKYSDFIRYPIEMEETEQRPVEGSDETESVTVMKTVNSMVPIWRKNKRELTDEDYRNFYQEKRYGFDAPIKHIHISADGAVRYQSILFIPEQPSFDYYSKEFEKGLELYANGVLIMEKCSDLLPDHFSFVKGMVDSEDLSLNISREMLQHDRQLKLIAKNIQSKIKTQLEALLRDDREKYETFYQAFGRQLKFGIYNDYGMQKDTVKDLVLFHSAKEKKLVTLAEYVAAMPEEQKYIYYASGESTDRLDKLPQSELVKDKGFDILYFTEEIDEFAIQMLLNYDGKEFKSVTSSDLGIEQTEQAETTETQAEMFKAMQEVLAGHVKEVKASTRLKSHPVCFATDGAVSIEMEKILKAMPNNQDVAAVKILELNTSHDVFRAIETAYAEDRPKFERYTKLMYQQALLMEGLPIEDPVAFANEVCALMI |
| 1747 | sp|P0A6Z5|HTPG\_ECO57 | MKGQETRGFQSEVKQLLHLMIHSLYSNKEIFLRELISNASDAADKLRFRALSNPDLYEGDGELRVRVSFDKDKRTLTISDNGVGMTRDEVIDHLGTIAKSGTKSFLESLGSDQAKDSQLIGQFGVGFYSAFIVADKVTVRTRAAGEKPENGVFWESAGEGEYTVADITKEDRGTEITLHLREGEDEFLDDWRVRSIISKYSDHIALPVEIEKREEKDGETVISWEKINKAQALWTRNKSEITDEEYKEFYKHIAHDFNDPLTWSHNRVEGKQEYTSLLYIPSQAPWDMWNRDHKHGLKLYVQRVFIMDDAEQFMPNYLRFVRGLIDSSDLPLNVSREILQDSTVTRNLRNALTKRVLQMLEKLAKDDAEKYQTFWQQFGLVLKEGPAEDFANQEAIAKLLRFASTHTDSSAQTVSLEDYVSRMKEGQEKIYYITADSYAAAKSSPHLELLRKKGIEVLLLSDRIDEWMMNYLTEFDGKPFQSVSKVDESLEKLADEVDESAKEAEKALTPFIDRVKALLGERVKDVRLTHRLTDTPAIVSTDADEMSTQMAKLFAAAGQKVPEVKYIFELNPDHVLVKRAADTEDEAKFSEWVELLLDQALLAERGTLEDPNLFIRRMNQLLVS |
| 1748 | sp|P30236|HSP41\_SOYBN | MRLQQLNLFFLLLCVAKANGSLLPFMDPPITLLADLWSDRFPDPFRVLEHIPFGVDKDEASMAMSPARVDWKETPEGHVIMLDVPGLKREEIKVEVEENRVLRVSGERKKEEEKKGDHWHRVERSYGKFWRQFRLPQNVDLDSVKAKLENGVLTLTLDKLSPGKIKGPRVVSIAGEDHQQGNLNNDGAKQEL |
| 1749 | sp|A3NQ62|HSLU\_BURP0 | MSTMTPAEIVSELDKHIIGQAKAKKAVAVALRNRWRRQQVAEPLRQEITPKNILMIGPTGVGKTEIARRLAKLADAPFIKIEATKFTEVGYVGRDVDSIVRDLIEISVKQTRETEMRKVRSKATDLAEDRILDVLLPQPRAVGFGASAEHANDDNNATRQTFRKRLREGQLDDKEIELDIEQPAVGMDIMAPPGMEEMTEQIRSMFSNLGSGKKQRRKVKIREALKLLTDEEAAKMLNDEEVKTKAVQNVEQNGIVFLDEIDKITSRNHEGGGGEVSRQGVQRDLLPLVEGTTINTKYGMVKTDHILFIASGAFHLAKPSDLIPELQGRFPIRVELDSLSVKDFEAILVATDASLVKQYQALLATEDVKLEFADDGIRRLAEIAYAVNEKTENIGARRLYTVIEKLLEEVSFAAGNHAGQSVTIDSAYVDRALGEVSKDEDLSRYVL |
| 1750 | sp|A1WF62|HTPG\_VEREI | MSKQTLSFQAEVAQLLHLVTHSLYSNQEIFLRELISNASDACDKLRFAGLNQPALFEDAPQLEVRVSFDQTARTLTITDNGIGMSQQEAIEHLGTIAKSGTKDFMGQLSGDQKQDAQLIGQFGVGFYSGFIVADKITVESRRAGLPASEGVRWASGGTGDFEVETIDRPARGTSVILHLRDSAEEYLNNWKLKSIISRYSDHISLPILMEKQEWKDGELINPGDEKGGRQPGAMVKTGDWETVNQASALWARPKKDVSDAQYAEFYKTISHDPLAPLTWAHNRVEGSTEYTQLLYIPAKAPFDLWNRDKKAGVKLYVKRVFIMDDAEALLPTYLRFVKGVIDSADLPLNVSRELLQESRDVRAIREGSTKRVLSMLEDLARHDRHDSPAPQPAEGADRVSDVVDADDKAKEGKYSQFYAEFGAVLKEGLGEDFANRERLARLLRFASTSSDQASVGLADYKARMKEGQEAIYYITADTLAAAKHSPQLEVFKKKGIEVLLMTDRVDEWALNYLHEFDGTPLQSVAKGAVDLGKLQDEAEKKAAEEAAEAFKPLLARLKETLKDKAEDVRVTTRLVDSPACLVVHGDGMSTQLARLLKQAGQQAPETKPVLEVNASHALVRKLDGSQHFDDLAHILFDQALLAEGGLPADPAAYVKRVNALLV |
| 1751 | sp|P11503|HSP70\_ONCVO | EFKRNDKKDLASNPRALRRLRTACERAKRTLSSSSQASIEIDSLFEGIDFYTNITRARFEELCADLFRSTMDPVEKALRVAKMDKAQVHDIVLVGGSTRIPKVQKLLSDFFSGKELNKSINPDEAVAYGAAVQAAILSGDKSEAVQDLLLLDVAPLSLGIETAGGVMTALIKRNTTIPTKTSQTFTTYSDNQPGVLIQVYEGERAMTKDNNLLGKFELSGIPPAPRGVPQIEVTFDIDANGILNVSAQDKSTGKQNKITITNDKGRLSKDEIERMVQEAEKYKADDEAQKDRIAAKNALESYAFNMKQTIEDEKLKDKISEF |
| 1752 | sp|C3L798|HSLU\_BACAC | MHLHFTPRQIVEKLDQYIIGQKDAKKAVAVALRNRYRRSKLAENLRDEIAPKNILMIGPTGVGKTEVARRMAKLVGAPFIKVEATKFTEVGYVGRDVESMVRDLVETSVRIVKEEMVVKVQDKAEEQANQRLVEILVPSPEKQSGFKNPLEMLFGGTQNSNQTTDSQEDVEIEKKRQDVERKLAAGLLEDEIVSIEVTEQQSSMFDMLQGTGMEQMGMNFQDALGSFMPKKTKKRKLSVKEARKVLTNEEAQRLIDMDEVTQEAVYRAEQLGIIFIDEIDKIAGKQSNSVDVSREGVQRDILPIVEGSNVATKYGSVKTDYILFVAAGAFHMSKPSDLIPELQGRFPIRVELTKLSTDDFVKILIEPDNALIKQYMALLATEGIEIEFSDEAIRKIAEIAYQVNQDTDNIGARRLHTIMEKLLEDLSFEASEITLEKITITPQYVEEKLATIAKNKDVSQFIL |
| 1753 | sp|O43084|HSP33\_SCHPO | MPAKTRNVLIACSDYYGPFYKDGENTGAFFLELLHPYLVFRDACFNVDIVTESGKIQFDDHSVAGPAIDKGSKGEEFLSYDDHIASGPELSKAEKYVLENKDDMFWRIVQNSKTADEVNPDKYDIFFVAGGHATLFDFPKATNLQKLGTSIYENGGVVAAVCHGPTLLPFMKRQTSDGSVSIVCGKDVTAFDRVAEDKSKLMEALKKYNLEVLDDMLNDAGANFIKSPNPFGDFVIADGRLVTGSNPASATSTAKTALRVL |
| 1754 | sp|Q1RI96|HSPC1\_RICBR | MKIKAYIPAIAAVILSSNATLANQNQAYNSNHTTSLHQAIELLDNQITNIDNLFKNKLPFYESNSIKSKFITKDKQYIIIMEVPGFDKDHIKIKVNGNKLFVKGNIEDKNKADDSNNYMNKNFNYVISLYEDVDQKNISSSLKNGILTITLPRIEVKEQDAKEIPIN |
| 1755 | sp|Q6D7Z6|HTPG\_PECAS | MKGQETRGFQSEVKQLLHLMIHSLYSNKEIFLRELISNASDAADKLRFRALSTPELYAGDGDLRVRVSTDKEKRTLTISDNGIGMSRDEVIDNLGTIAKSGTKSFLESMGSDQVKDSQLIGQFGVGFYSAFIVADKVTVRTRAAGANADQGVYWESAGEGDYTIADITKDDRGTEITLHLREGEDEFLDDWRVRSVISKYSDHIALPVEIESQTESEEEGGESTVSWEKINKAQALWTRSKSEVSDDEYNEFYKHISHDFTDPLSWSHNRVEGKQEYTSLLYIPAHAPWDMWNRDHKHGLKLYVQRVFIMDDAEQFMPNYLRFVRGLIDSNDLPLNVSREILQDSRVTQNLRNALTKRVLQMLDKLAKDDAEKYQTFWQQFGLVLKEGPAEDGSNREAIAKLLRFATTQSDSSAQTVSLEDYVSRMVEGQDKIYYITADSYAAAKSSPHLELFRKKGIEVLLLSERIDEWMMSYLTEFDGKSFQSVSKADDTLDKLADEENDAQKEAQKALEPFVERVKTLLGERVKDVRFTYRLTDTPAIVVTDADEMSTQMAKLFAAAGQQAPEVKYIFELNPEHALIKRAADVSDEAEFGEWVELLLDQALLAERGTLDDPNLFIRRMNQLLSA |
| 1756 | sp|Q61316|HSP74\_MOUSE | MSVVGIDLGFQSCYVAVARAGGIETIANEYSDRCTPACVSFGPKNRSIGAAAKSQVISNAKNTVQGFKRFHGRAFSDPFVEAEKSNLAYDIVQLPTGLTGIKVTYMEEERNFTTEQVTAMLLSKLKETAESVLKKPVVDCVVSVPSFYTDAERRSVMDATQIAGLNCLRLMNETTAVALAYGIYKQDLPALEEKPRNVVFVDMGHSAYQVSVCAFNKGKLKVLATAFDTTLGGRKFDEVLVNHFCEEFGKKYKLDIKSKIRALLRLSQECEKLKKLMSANASDLPLSIECFMNDIDVSGTMNRGKFLEMCDDLLARVEPPLRSVLEQSKLKKEDIYAVEIVGGATRIPAVKEKISKFFGKELSTTLNADEAVTRGCALQCAILSPAFKVREFSITDVVPYPISLRWNSPAEEGLSDCEVFPKNHAAPFSKVLTFYRKEPFTLEAYYSSPQDLPYPDPAIAQFSVQKVTPQSDGSSSKVKVKVRVNVHGIFSVSSAALVEVHKSEESEEPMETDQNAKEEEKMQVDQEEPHTEEQQQQPQTPAENKAESEEMETSQAGSKDKKTDQPPQAKKAKVKTSTVDLPIEHTLWQLDREMLALYTENEGKMIMQDKLEKERNDAKNAVEEYVYEMRDKLSGEYEKFVSEDDRNTFTLKLEDTENWLYEDGEDQPKQVYVDKLAELKSLGQPIKTRFQESEERPKLFEELGKQIQQYMKVISSFKNKEDQYEHLDAADVTKVEKSTNEAMEWMNSKLNLQNKQSLTVDPVVKTKEIEAKIKELTSICSPIISKPKPKVEPPKEEPKHAEQNGPVDGQGDNPGSQAAEHGADTAVPSDGDKKLPEMDID |
| 1757 | sp|Q92IQ7|HSPC1\_RICCN | MLKSVRLYIPSIAVMILSSNIAIANKNYDAGNATPLRQVADLIDNQITNIDNLFKNRLSLYESNSIKSNFITKDKQYIIVMEVPGFDKSQIKVKVNGNKLFITGNIEEKNKADYSDNYMNKNFNYVISLYEDVDQANISSSLKNGILTIILPRIEIKEQEAREIVID |
| 1758 | sp|A1A8D9|HTPG\_ECOK1 | MKGQETRGFQSEVKQLLHLMIHSLYSNKEIFLRELISNASDAADKLRFRALSNPDLYEGDGELRVRVSFDKDKRTLTISDNGVGMTRDEVIDHLGTIAKSGTKSFLESLGSDQAKDSQLIGQFGVGFYSAFIVADKVTVRTRAAGEKPENGVFWESAGEGEYTVADITKEDRGTEITLHLREGEDEFLDDWRVRSIISKYSDHIALPVEIEKREEKDGETVISWEKINKAQALWTRNKSEITDEEYKEFYKHIAHDFNEPLTWSHNRVEGKQEYTSLLYIPSQAPWDMWNRDHKHGLKLYVQRVFIMDDAEQFMPNYLRFVRGLIDSSDLPLNVSREILQDSTVTRNLRNALTKRVLQMLEKLAKDDAEKYQTFWQQFGLVLKEGPAEDFANQEAIAKLLRFASTHTDSSAQTVSLEDYVSRMKEGQEKIYYITADSYAAAKSSPHLELLRKKGIEVLLLSDRIDEWMMNYLTEFDGKPFQSVSKVDESLEKLADEVDESAKEAEKALTPFIDRVKALLGERVKDVRLTHRLTDTPAIVSTDADEMSTQMAKLFAAAGQKVPEVKYIFELNPDHVLVKRAADTEDEAKFSEWVELLLDQALLAERGTLEDPNLFIRRMNQLLVS |
| 1759 | sp|A3N4H2|HSLU\_BURP6 | MSTMTPAEIVSELDKHIIGQAKAKKAVAVALRNRWRRQQVAEPLRQEITPKNILMIGPTGVGKTEIARRLAKLADAPFIKIEATKFTEVGYVGRDVDSIVRDLIEISVKQTRETEMRKVRSKATDLAEDRILDVLLPQPRAVGFGASAEHANDDNNATRQTFRKRLREGQLDDKEIELDIEQPAVGMDIMAPPGMEEMTEQIRSMFSNLGSGKKQRRKVKIREALKLLTDEEAAKMLNDEEVKTKAVQNVEQNGIVFLDEIDKITSRNHEGGGGEVSRQGVQRDLLPLVEGTTINTKYGMVKTDHILFIASGAFHLAKPSDLIPELQGRFPIRVELDSLSVKDFEAILVATDASLVKQYQALLATEDVKLEFADDGIRRLAEIAYAVNEKTENIGARRLYTVIEKLLEEVSFAAGNHAGQSVTIDSAYVDRALGEVSKDEDLSRYVL |
| 1760 | sp|Q07GW8|HTPG\_RHOP5 | MTTTDTAPQTQPFQAEVAELLNLMVHSVYSETEIFLRELISNGSDALDKLRYEAISKPDLMEAGGTPKIQIVPKKAPDTLSVIDNGIGMDRQELIDNLGTIAKSGTKSFLTKLTEAKDGSNLIGQFGVGFYAAFMVADRIVVTSRRAGSTEAWTWTSSGGAGFEIAPASAEEAERIVRGTEIVLHLKPEAAKYLEAYQIERIVSAYSDNIQFPIELVPEEGEARQINSASALWQRSKSELAAEDYKQAYKSIANAFDDPAMTLHYRAEGRYSYAVMLFAPSTKPFDLFEPQRKGHVKLYVRRVFITDDADLLPAYLRFIRGVIDSEDLPLNLSREMLQNNPQLVQIRKAVTGKVIGELESLGEKDPENFAKIWDAFGPVIKEGIWEDYERREKLLALSRFTTTKGDNRTLKNYVEDLRDNQTEIYYLVGDSLERLKSNPKLESAAARGIEVLLLTDPVDAFWTSAPLDFGGKPLKSLSQGDVNFDLIPTTDEAKDEQPKPETDEALVIATIKDALGERVSDVRASQRLTASASCLIAGGQGPDRALERMLAQQNRGGASKPILEINLRHPLVAAIGRPGNADAADLSLLLLEQAQILDGELPEDPAGFAGRINRLVLRAL |
| 1761 | sp|Q7M8C4|HTPG\_WOLSU | MAKHTFQTEVNQLLDLMIHSLYSNKEIFLRELISNASDALEKLQYLTLTDENLKNLQYTPRIDIHFDEEKKILTLSDTGIGMNESDLVENLGTIAKSGTKSFVSRLSGDKKKDSALIGQFGVGFYAAFMVADKIVVTTKKAGEESAYAWLSEGKGDYEITPCSKESHGTEIKLFLKEEEKEFASRWRLEEIIKKYSDHIPFPIFLHYTQKKNDQEESKEEQVNKAFALWRISKNELKEEDYKEFYKSLSHDSHDPLAWVHIKVEGSQEYTTLFYLPSKAPFDLYRVDYRSGVKLYVKRVFITDDDKELLPSYLRFVRGIIDSEDLPLNVSREILQQNRILANIKSASTKKILAEIENLAKDEEKYEAFFKEFGRALKEGLYGDFENKEKLLELMRFHSSLSPNKKISLQSYKERMKEGQKAIYYLMGENADLLQNSPLLEKFKKREIEVLFFDEEIDSIVMPMVNQYGDLPLKAINSAEADKDFEEESVSEEEKERFKPLLERFEKALSGEIKSVRLSKRLVDSPACVVADEDDPNFAMIKMMRQMGNALGDFPEPKPILELNPEHPMVGKLLALEDEERASDYAHLLLDQAKLLESGSLKDAVGFAKRLNAMLERAI |
| 1762 | sp|Q96331|HS23M\_ARATH | MASALALKRLLSSSIAPRSRSVLRPAVSSRLFNTNAVRSYDDDGENGDGVDLYRRSVPRRRGDFFSDVFDPFSPTRSVSQVLNLMDQFMENPLLSATRGMGASGARRGWDIKEKDDALYLRIDMPGLSREDVKLALEQDTLVIRGEGKNEEDGGEEGESGNRRFTSRIGLPDKIYKIDEIKAEMKNGVLKVVIPKMKEQERNDVRQIEIN |
| 1763 | sp|Q8SWH2|HSP7A\_ENCCU | MLVRGLLSAVATIFCGAPKDTDLRESVAVGIDLGTTYSCISVYSPSSKDTRFVLSPGGEETYPSVVYFKKLPEGDGKKSKYEAVAGWPGLQMYNAEGNANTYFYAFKRGMGIEDLANIDKKVEEIKRNASVPIFVESVGGKKRVAYKIQEAMQDGYESVTPEELSSHVLRMLKDQIVKDYKIQGLTITVPAYFDVNQVAATIKAAEMAGFPTPIIWKEPSAAAFAHTYDLIRKGITTKEEVDDMNICVFDLGGGTFDVSIVESSGGFMMVPSYGGNNFLGGENVNDNLTKYFADYIKSSTGFDVMENQNVKLRLRNVVEDMKRDLCDEVRKSPGRKANPSISKSFIYDGEKSIVLELTNEKFNELNADFYSRIRKTMDSLLSGDGKDNKGYDKSLINRVLLVGGSTRIPKVIDIVEEIFGANKIYSEGVNADTIVARGAALYTANSLNLLNESEQIVTADSVPLSLGICTEEDHFEAIISKGALLPATGTKEFTTAQDNQTKVRIRVAQGGLESFKDNIYIGDIELDLPGNQPRGVPRIAVTLEIDTHGKIYVKAVDLQNNKEASSYFSSVVANMTSEEIERFEERVHGEENQELVKKREVVRKLEQAISQAESPKFAEVIPENIKKDALEYVQKTRLWLEKHKEIAPRIHIEEKLQEFDNGMKEFLSSAKSGEEKEIGREEL |
| 1764 | sp|Q99PR8|HSPB2\_MOUSE | MSGRTVPHAHPATAEYEFANPSRLGEQRFGEGLLPEEILTPTLYHGYYVRPRAARAGEGARAGASELRLSEGKFQAFLDVSHFTPDEVTVRTVDNLLEVSARHPQRLDRHGFVSREFCRTYVLPADVDPWRVRAALSHDGILNLEAPRGGRHLDTEVNEVYISLLPAPPDPEEEEEIARVEP |
| 1765 | sp|P61186|HTPG\_MYCPA | MNARVEQLEFQAEARQLLDLMVHSVYSNKDSFLRELISNASDALDKLRLEAFRNKDLDVDTSDLHIQIEVDKDARTLTIRDNGIGMTRAEVVDLIGTLAKSGTAELRQQLREAKNAQNEAASEELIGQFGIGFYSSFMVADKVELLTRKAGESEATKWESSGEGTYTIESVENAPQGTSVTLHLKPEDTEDELHDYTSEFKIKSLVKKYSDFIAWPIRMEVERRTPATEEGGEETVTREVETLNSMKALWARPKDEVSEEEYKEFYKHIAHAWDDPLEVIAMKAEGTFEYQALLFIPSHAPFDLFNRDAHTGIQLYVKRVFIMGDCDQLMPEYLRFVKGVVDAQDMSLNVSREILQQDRQIKAIRRRLTKKVLSTIKELQSERLDDYRTFWTQFGRVVKEGLLSDFDNQETLVQLCSFASTHSEEEATTLAQYVERMKEGQTQIFYATGETRQQILKSPHLEAFKAKGYEVLLLTDPVDEVWVGTVTEFDGKPLQSIAKGEVDLSAEGEESQAERDEQQKEFADLLAWLKDTLSDHVKEVRLSNRLTDSPACLITDAFGITPALARLYRASGQDIPVGKRILELNPKHPLVTGLRQAHQDRADDPSVAETAELLYGTALLAEGGALDDPARFAEILADRLARTL |
| 1766 | sp|Q5PFK7|HTPG\_SALPA | MKGQETRGFQSEVKQLLHLMIHSLYSNKEIFLRELISNASDAADKLRFRALSNPDLYEGDSELRVRVSFDKDKRTLTIADNGVGMNRDEVIDHLGTIAKSGTKSFLESMGSDQAKDSQLIGQFGVGFYSAFIVADKVTVRTRAAGDKPENGVFWESAGEGEYTVADITKNDRGTEITLHLREGEDEFLDDWRVRSIISKYSDHIALPVEIEKREEKDGETVISWEKINKAQALWTRNKSEIKDDEYNEFYKHIAHDFTDPLTWSHNRVEGKQEYTSLLYIPSQAPWDLWNRDHKHGLKLYVQRVFIMDDAEQFMPNYLRFVRGLIDSNDLPLNVSREILQDSTVTRNLRSALTKRVLQMLEKLAKDDAEKYQTFWKQFGLVLKEGPAEDHANQEAIAKLLRFASTHTDSSAQTVSLEDYVSRMKEGQEKIYYITADSYAAAKNSPHLELLRKKGIEVLLLSDRIDEWMMNYLTEFDGKAFQSVAKADESIEKLADEVDENAKEAEKALEPFVERVKTLLGDRVKEVRLTHRLTDTPAIVTTDADEMSTQMAKLFAAAGQSVPEVKYIFELNPDHVLVKRTADTEDEAQFKEWVELLLDQALFAERGTLEDPNQFIRRMNQLLVS |
| 1767 | sp|B7EZJ7|HS23M\_ORYSJ | MALARQCLSKRLAAGCALARPLHAASPVAAAAANSHGPLNFRALFSSAGADAAATTGGCAPAKGDGHSREVAVVDRSRRRWPWRDLRDFVPLRLVDGIGSALSQVAETLTRPLTGKVREDEERYRLRFEVPGLGKDDVRVYVDDGVLAIHGEKRDVVEEDRGRDGDGECWAAATYHAGLLLPEDAVAEGITAEVRDGVLHVTVPRSPERKRSVTEVKVR |
| 1768 | sp|A7NBY8|HSLU\_FRATF | MTQIMTPKTIVHELERHIIGQNDAKKAVAIALRNRWRRMQLDNEMRQEVTPKNILMIGPTGVGKTEIARRLAKLADAPFIKVEATKFTEVGYVGKDVESIIRDLVETAVKMKREEAKEKVTEKAARLAEDRILDVLIPPARTSESKVGFANEPAEDAASKKEKENKTREIFRKKIQNGELDDKEIEIEVAVAPKTIGVMGPPGMEDMTSQLQDLFSSLSTDKKKNKKMRIKDAIKLAQDEEAAKLVNEEDIKARALEAVEQNGIVFLDEIDKVCRKSSNSGADVSREGVQRDLLPLVEGSTVSTKYGVIKTDHILFIASGAFHVAKPSDLIPELQGRLPIRVELKSLEIEDFVRILREPDCSILKQYIALMKTEGIDLSFEEDAIRKIAEIAYKVNEEVENIGARRLHTVMERLLEKISFDAPELVEKNINITTDYVNEKLGNLVKNKDLSQYIL |
| 1769 | sp|A1VTA5|HTPG\_POLNA | MQKQTLSFQAEVAQLLKLVTHSLYSNPDIFLRELISNASDACDKLRFEALNDAGLYENDSELKVRVSFDKAAKTLTITDNGIGMSQQEAIEHLGTIAKSGTRDFVAKLSGDQKNDAQLIGQFGVGFYSGFIVADKITVESRRAGLPAAQGVRWVSEGTGEFDVSETLRAERGTSIILHLKDDAADYLNAWKLKGIINKYSDHISLPILMPKEEWKEGENDQPGEMAFTGEWETVNQAAALWTRPKKDITPEHYAEFYKQISYDSEAPLATTHNRVEGATEYTQLLFIPAKAPMDMYNRDKAAGVKLYVKRVFIMDDAQALLPTYLRFVKGVVDSSDLPLNVSRELLQESRAVKAIREGCTKRVLSMIEDLANNEPEKFKTFYAEFGAVLKEGLGEDFANRERLAKLLRFASSTTDTTTVSFADYKARMKDGQDAIYYITADTLAAAKSSPQLEIFRKKGIEVLLMADRVDEWALNYLNEFDGTPLQSVAKGAVDLGKLQDEDEKKAAEEAQTQFKPILDKLKEALKDKASDVRATSRLVDSPACLVVQDGDMSTQLARMLKQAGQTVPEVKPILEVNAQHPLVRKLEASSELASFDDLANILFDQALLAEGGMPTDPAAYVRRVNALLV |
| 1770 | sp|B5XY39|HSPQ\_KLEP3 | MIASKFGIGQQVRHTLLGYLGVIVDVDPEYSLAEPEEDEIAANDELRAAPWYHVVMEDDDGQPIHTYLAEAQLSSETRDEHPEQPSLDELAKTIRQQLQAPRLRN |
| 1771 | sp|B5VL26|HS150\_YEAS6 | MQYKKTLVASALAATTLAAYAPSEPWSTLTPTATYSGGVTDYASTFGIAVQPISTTSSASSAATTASSKAKRAASQIGDGQVQAATTTASVSTKSSAAAVSQIGDGQIQATTKTTAAASLKLVMVKIQATTKTTAAAVSQIGDGQVQATTKTTAAAVSQITDGQVQATTKTTQAASQVSDGQVQATSATSASAAATSTDPVDAVSCKTSGTLEMNLKGGILTDGKGRIGSIVANRQFQFDGPPPQAGAIYAAGWSITPDGNLAIGDNDVFYQCLSGTFYNLYDEHIGSQCTPVHLEAIDLIDC |
| 1772 | sp|P86204|HSP72\_MESAU | VEIIANDQGNRTTPSYVAFTDTERLIGDAAKNQVAMNPTNTIFDAKRVQSAVITVPAYFNDSQRQATKDAGTITGLNVLRIINEPTAAAIAYGLDKKSTAGDTHLGGEDFDNRMVSHLAEEFKRARFEELNADLFRLDKGQIQEIVLVGGSTRLLQDFFNGKELNKITITNDKGRMVQEAERYKGKISEQDK |
| 1773 | sp|O59855|HSP72\_SCHPO | MSKSIGIDLGTTYSCVGHFSNNRVEIIANDQGNRTTPSYVAFTDTERLIGDAAKNQVAMNPHNTIFDAKRLIGRKFDDPEVQSDMKHWPFKVISKDGKPVLQVEYKGETKTFTPEEISSMVLMKMRETAEAYLGGKVTDAVVTVPAYFNDSQRQATKDAGLIAGLNVLRIINEPTAAAIAYGLDRSNQGESNVLIFDLGGGTFDVSLLTIEEGIFEVKATAGDTHLGGEDFDSRLVNHFIQEFKRKNKKDITGNARAVRRLRTACERAKRTLSSSAQASIEIDSLFEGIDFYTSITRARFEELCADLFRKTMEPVERVLRDSKVDKASVNEIVLVGGSTRIPRVQKLVSDFFNGKEPCKSINPDEAVAYGAAVQAAVLTGDTSEKTQDLLLLDVAPLSMGIETAGGVMTPLIKRNTTIPTKKSEIFSTYSDNQPGVLIQVFEGERARTKDCNLLGKFELSGIPPAPRGVPQIEVTFDVDANGILNVSALEKGTGKTQKITITNDKGRLSKEEIDRMVAEAEKYKAEDEAESGRIQAKNHLESYAYSLRNSLDDPNLKDKVDASDKETVDKAVKETIEWLDSNTTAAKDEFEAKQKELESVANPIMAKIYQAGGAPGGMPGAAPGAAPGAAPGAAPGGDNGPEVEEVD |
| 1774 | sp|P11146|HSP7B\_DROME | MGKIPAIGIDLGTTYSCVGVWQNSKVEIIANDQGNRTTPSYVAFNETERLIGDPAKNQVAMNAKNTVFDAKRLIGRKFDDKKIQEDLKLWPFKVINEKGKPKIEVEFKGERKRFAPEEISSMVLTKMREIAEVYLGGKVKDAVVTVPAYFNDSQRQATKDAGSIAGLNVLRIINEPTAAALAYGLDKNLKGERNVLIFDLGGGTFDVSVLSIDEGSLFEVKATAGDTHLGGEDFDNRLVNHFAEEFKRKHKSDIKGNARALRRLRTACERAKRTLSSSTEASLEIDALHEGIDFYSKISRARFEELNMDLFRSTMQPVERALSDAKMDKKAIHDVVLVGGSTRIPKIQKLLQDLFGGKQLNLSINPDEAVAYGAAVQAAILTGVGSSQIQDLLLVDVAPLSLGIETAGGVMTNLVERNARIPCKQQQIFTTYSDNQNAVTIQVYEGERAMTKDNNLLGTFNLTGIPPAPRGVPQIEVAFDLNADGILNVNAKDNSTGKSEKITISNDKGRLSKAEIDRMLSEAEKYKVEDDRQRERVQSKNNLEAYIYACRQAVDDAPSGVLSETERSKVRDKCSSEASWLDKNSLAEKEEFESHLKECQRICTPIMSKIHGGKKGKSSMGKGSHPTVEEVDG |
| 1775 | sp|O13224|HSPB1\_POELU | MAERRIPFTLQRTPSWDVPDLHQTSRIFDQAFGLPPVFEDFSGFPTTHWPGYMRPSLMTPDIMIPQSPMMYHPGHMMAHQARALSRQMSSGMSEIKQTQDNWKISLDVPHFSPEELVVKTKDGVLEISGKHEERKDEHGFVSRSFTRKYTLPPTANIEKVTSSLSPEGVLTVEAPINKPALEYSETTIPVNVESSGAVAKK |
| 1776 | sp|Q0T668|HSPQ\_SHIF8 | MIASKFGIGQQVRHSLLGYLGVVVDIDPVYSLSEPSPDELAVNDELRAAPWYHVVMEDDNGLPVHTYLAEAQLSSELQDEHPEQPSMDELAQTIRKQLQAPRLRN |
| 1777 | sp|P22953|HS701\_ARATH | MSGKGEGPAIGIDLGTTYSCVGVWQHDRVEIIANDQGNRTTPSYVAFTDSERLIGDAAKNQVAMNPVNTVFDAKRLIGRRFSDSSVQSDMKLWPFKIQAGPADKPMIYVEYKGEEKEFAAEEISSMVLIKMREIAEAYLGVTIKNAVVTVPAYFNDSQRQATKDAGVIAGLNVMRIINEPTAAAIAYGLDKKATSVGEKNVLIFDLGGGTFDVSLLTIEEGIFEVKATAGDTHLGGEDFDNRMVNHFVQEFKRKSKKDITGNPRALRRLRTSCERAKRTLSSTAQTTIEIDSLYEGIDFYSTITRARFEELNMDLFRKCMEPVEKCLRDAKMDKSTVHDVVLVGGSTRIPKVQQLLQDFFNGKELCKSINPDEAVAYGAAVQGAILSGEGNEKVQDLLLLDVTPLSLGLETAGGVMTTLIPRNTTIPTKKEQVFSTYSDNQPGVLIQVYEGERARTKDNNLLGKFELSGIPPAPRGVPQITVCFDIDANGILNVSAEDKTTGQKNKITITNDKGRLSKDEIEKMVQEAEKYKSEDEEHKKKVEAKNALENYAYNMRNTIQDEKIGEKLPAADKKKIEDSIEQAIQWLEGNQLAEADEFEDKMKELESICNPIIAKMYQGAGGEAGGPGASGMDDDAPPASGGAGPKIEEVD |
| 1778 | sp|Q12988|HSPB3\_HUMAN | MAKIILRHLIEIPVRYQEEFEARGLEDCRLDHALYALPGPTIVDLRKTRAAQSPPVDSAAETPPREGKSHFQILLDVVQFLPEDIIIQTFEGWLLIKAQHGTRMDEHGFISRSFTRQYKLPDGVEIKDLSAVLCHDGILVVEVKDPVGTK |
| 1779 | sp|B4T208|HSPQ\_SALNS | MIASKFGIGQQVRHSLLGYLGVVVDIDPEYSLDEPSPDELAVNDELRAAPWYHVVMEDDDGQPVHTYLAEAQLRSEMRDEHPEQPSMDELARTIRKQLQAPRLRN |
| 1780 | sp|Q3SWE4|HSLU\_NITWN | MTDISPREIVSELDRFIVGQADAKRAVSIALRNRWRRQQLTGPLREEVLPKNILMIGPTGVGKTEIARRLAKLANAPFLKIEATKFTEVGYVGRDVEQIVRDIVEVAINQTRERKRKDVQARAQLAAEERVLDALVGANASAATRDSFRKRLRSGELNDKEIEIETQTSGGGPMFEIPGMPGAQVGAISIGDIFGKMGGRTKTRRLTVSDSYEILINEESDKLLDSDQLTQEAIAAVENNGIVFLDEIDKICVRDGRSGGDVSREGVQRDLLPLIEGTTVSTKHGAVKTDHILFIASGAFHIAKPSDLLPELQGRLPIRVELDALTRDDLRRILTEPEASLIKQYVALMDTEGVVLDFTDDAVDALADIAVAVNSTVENIGARRLQTVMERVLDDISFTAPDRNGETVRIDAGYVQKNIGDLAKNADLSRFIL |
| 1781 | sp|P20030|HSP7C\_TRYBB | MTYEGAIGIDLGTTYSCVGVWQNERVEIIANDQGNRTTPSYVAFVNNEVLVGDAAKSHAARGSNGVIFDAKRLIGRKFSDSVVQSDMKHWPFKVEEGEKGGAVMRVEHLGEGMLLQPEQISARVLAYLKSCAESYLGKQVAKAVVTVPAYFNDSQRQATKDAGTIAGLEVLRIINEPTAAAIAYGLDKADEGKERNVLVFDFGGGTFDVSIISVSGGVFEVKATNGDTHLGGEDVDAALLEHALADIRNRYGIEQGSLSQKMLSKLRSRCEEVKRVLSHSTVGEIALDGLLPDGEEYVLKLTRARLEELCTKIFARCLSVVQRALKDASMKVEDIEDVVLVGGSSRIPAVQAQLRELFRGKQLCSSVHPDEAVAYGAAWQAHVLSGGYGESSRTAGIVLLDVVPLSIGVEVDDGKFDVIIRRNTTIPYLATKEYSTVDDNQSEVEIQVFEGERPLTRHNHRLGSFVLDGITPAKHGEPTITVTFSVDADGILTVTAAEELGSVTKTLVVENSERLTSEEVQKMIEVAQKFALTDATALARMEATERLTQWFDRLEAVMETVPQPYSEKLQKRIAFLPHGKEWVGTQLHTYTDAASIEAKVAKIERLAKRALKSARREGKDGWAPGNEDNGSGDDNDGDDNSDEEDELQRGRGVTEGSGRSPIRKRDRIEAINANTE |
| 1782 | sp|C0Q8C6|HSPQ\_SALPC | MIASKFGIGQQVRHSLLGYLGVVVDIDPEYSLDEPSPDELAVNDELRAAPWYHVVMEDDDGQPVHTYLAEAQLRSEMRDEHPEQPSMDELARTIRKQLQAPRLRN |
| 1783 | sp|Q21CK9|HSLU\_RHOPB | MTDFSPREIVSELDRFIVGQHDAKRAVSIALRNRWRRLQLEGSLREEVLPKNILMIGPTGVGKTEIARRLAKLAGAPFIKVEATKFTEVGYVGRDVEQIIRDLVEVAISQVREKKRKDVEARAQIAAEERVLDALVGANSSATTRDSFRKKLRAGELNDKEIEVETQSTGGGSPMFEIPGMPGAQMGAISLGDIFGKMGGRTKTRRLTVEDSHELLVNEEADKLLDSDQLVQEAINAVENNGIVFLDEIDKICVRDGRSGGEVSREGVQRDLLPLIEGTTVSTKHGAVKTDHILFIASGAFHIAKPSDLLPELQGRLPIRVELSALTRDDMRRILTEPEASLIKQYVALLQTEGVTLEITDEAIDALADVAVAVNSSVENIGARRLQTVMERVLDEISFTAPDRDGETIQVDAAYVQKHVGDLAKNADLSRFIL |
| 1784 | sp|Q01899|HSP7M\_PHAVU | MAAVLRSLRRRDVASATFSAYRSLTGSTKPAYVAQKWSCLARPFSSRPAGNDVIGIDLGTTNSCVSVMEGKNPKVIENSEGARTTPSVVAFNQKGELLVGTPAKRQAVTNPTNTVFGTKRLIGRRFDDPQTQKEMKMVPFKIVKAPNGDAWVEANGQQYSPSQIGAFVLTKMKETAEAYLGKSVSKAVITVPAYFNDAQRQATKDAGRIAGLDVQRIINEPTAAALSYGMNNKEGLIAVFDLGGGTFDVSILEISNGVFEVKATNGDTFLGGEDFDNALLDFLVNEFKRTESIDLSKDRLALQRLREAAEKAKIELSSTSQTEINLPFITADASGAKHLNITLTRSKFEALVNHLIERTKAPCKSCLKDANVSIKDVDEVLLVGGMTRVPKVQEVVLNIFGKSPSKGVNPDEAVAMGAAIQGGILRGDVKELLLLDVTPLSLGIETLGGIFTRLINRNTTIPTKKSQVFSTAADNQTQVGIKVLQGEREMASDNKMLGEFDLVGIPPAPRGLPQIEVTFDIDANGIVTVSAKDKSTGKEQQITIRSSGGLSEDEIEKMVKEAELHAQKDQERKTLIDIRNSADTTIYSIEKSLGEYREKIPSETAKEIEDAVSDLRKAMSGDNVDEIKSKLDAANKAVSKIGEHMSGGSSGGSSAGGSQGGGDQAPEAEYEEVKK |
| 1785 | sp|Q8P855|HTPG\_XANCP | MTVDTDKQTLGFQTEVKQLLQLMIHSLYSNKEIFLRELVSNAADAADKLRFEALVKPELLEGSGELRIRVDFDKEARTVTIDDNGIGMSREDAVSHLGTIAKSGTADFLKHLSGDQKKDANLIGQFGVGFYSAFIVADQVDVYSRRAGLPASDGVHWSSRGEGEFEVASVDKPERGTRIVLHLKDGEDSFADGWTLRNILKKYSDHIGLPIEMRKEHYGEDADKPAEPEWEVVNRASALWTRPKSEIKDEEYQEFYKHVAHDAGNPLAWSHNKVEGKLDYTSLLFVPGRAPFDLYHRDSAKGLKLYVQRVFIMDQAEQFLPLYLRFIKGVVDSADLSLNVSREILQSGPVVDSMKSALTKRALDMLEKLAKDKPDDYATFWRNFGQALKEGPAEDYANREKVAGLLRFSSTHDTTGAQSVALADYVGRMTEGQDKLYYLTGESYAQIKDSPHLEVFRKKGIEVLLLTDRIDEWLMSYLTEFDSKSFVDVARGDLDLGKLDSEEDKKAQEEVAKSKEGLASRIKAALGDDVAEVRVSHRLTDSPAILAIGQGDLGLQMRQLLEASGQAVPETKPVFEFNPAHPLIEKLDAEQDMDRFGDLSRVLFDQAALAAGDSLKDPAGYVRRLNKLLLELSA |
| 1786 | sp|P0A6H7|HSLU\_SHIFL | MSEMTPREIVSELDKHIIGQDNAKRSVAIALRNRWRRMQLNEELRHEVTPKNILMIGPTGVGKTEIARRLAKLANAPFIKVEATKFTEVGYVGKEVDSIIRDLTDAAVKMVRVQAIEKNRYRAEELAEERILDVLIPPAKNNWGQTEQQQEPSAARQAFRKKLREGQLDDKEIEIDLAAAPMGVEIMAPPGMEEMTSQLQSMFQNLGGQKQKARKLKIKDAMKLLIEEEAAKLVNPEELKQDAIDAVEQHGIVFIDEIDKICKRGESSGPDVSREGVQRDLLPLVEGCTVSTKHGMVKTDHILFIASGAFQIAKPSDLIPELQGRLPIRVELQALTTSDFERILTEPNASITVQYKALMATEGVNIEFTDSGIKRIAEAAWQVNESTENIGARRLHTVLERLMEEISYDASDLSGQNITIDADYVSKHLDALVADEDLSRFIL |
| 1787 | sp|P38530|HSF2\_CHICK | MKQEPQQQQPAQQPPPAGAGVPAFLSKLWALVGEAPSNQLITWSQNGQSFLVLDEQRFAKEILPKYFKHNNMASFVRQLNMYGFRKVVHVDSGIVKLERDGLVEFQHPYFKQGREDLLEHIKRKVSSSRPEENKISQEDLSKIISSAQKVEIKQETIESRLSALKRENESLWREVAELRAKHLKQQQVIRKIVQFIVTLVQNNQLVSLKRKRPLLLNTNGPTKSNVFQQIVKEPADNNNHVPLNRTEGLKQREQISDDIIIYDVTEDVADEENTMVDEENAPITPETNEDTTSDSSNCSRSPDIVIVEDDNEEEYAPVIQGDKSTESVAVSANDPLSPVSDSTSPLMSSAVQLNNQSTLTAEDPVSMMDSILNENGVISQNINLLGKVELLDYLDSIDCSLEDFQAMLSGRQFSIDPDLLFDLFTSSVQMNPTDHIPNTKMETKGIETTKSNAGPAASQETQVSKPKSDKQLIQYTAFPLLAFLDGNPGSTVESGSSATETPSSVDKPLEVDELLESSLDPEPTQSKLVRLEPLTEAEASEATLFYLCELAPAPMDTDMPFLDN |
| 1788 | sp|Q07WM2|HSLU\_SHEFN | MSEMTPREIVHELDAHIIGQQNAKRSVAVALRNRWRRMQLEPELRHEVTPKNILMIGPTGVGKTEIARRLAKLANAPFIKVEATKFTEVGYVGKEVEQIIRDLTDSAVKMTREQQMKKCRHRAEEMAEERILDALLPKPKDDWDTDQKDDSTTRQVFRKKLREGQLDDKEIEIDVAAPQVGVEIMAPPGMEEMTNQLQGLFQNLGQSTSKRKKLKIKDAYKQLVEDEAAKLVNQEDLKEQAIELVEQNGIVFLDEIDKICKRGESSGPDVSREGVQRDLLPLVEGCTVSTKHGMVKTDHILFIASGAFQMSKPSDLIPELQGRLPIRVELDALTAADFKRILTEPFASLTEQHVALMNTEGVTIEFTESGIERIAEAAWQVNERTENIGARRLHTVMEKLMEEISYDASEKSGSKFVIDAEYVNDHLDTLVQDEDLSRFIL |
| 1789 | sp|A2SL47|HRCA\_METPP | MLDERAKTLLKTLVERYIADGQPVGSRTLSRASGLELSPATIRNVMADLEELGLIASPHTSAGRIPTARGYRLFVDTMLTARPLDMARSEPGLAAAQEQLQPDQPQRVITHAAQVLSNLSQFVGVVTAPRKAGVFHHIEFMRLGERRVLVILVSPDGDVQNRVIFTARDHSPAELVEASNFINAHYSGLSIEAVRERLKTEIDALRGEIALLMQAAVQFGSEAADGENEQVVVSGERNLLTMQDFSSDMGSLRKLFDLFEQKTQLMRLLDVSSRAEGVRIYIGGESQIVPFEELSVVSAPYEVDGKIVGTLGVIGPTRMAYDRMIQIVDITSRLVTQALSQK |
| 1790 | sp|B1VY37|HRCA\_STRGG | MLSERRLEVLRAIVQDYVGTEEPVGSKALTERHRLGVSPATVRNDMAVLEDEGFIAQPHTSAGRIPTDKGYRLFVDKLAGVKPLSSPERRAIQNFMDGAVDLDDVVGRTVRLLAQLTRQVAVVQYPSLTRSTVRHVELLALAPARLMLVLITDTGRVEQRMIDCPAPFGEASLADLRARLNSRVVGRRFADVPQLVQELPESFDSEDRGTVSTVLSTLLETLVEETEERLMIGGTSNLTRFGHDFPVMIRPVLEALEEQVVLLKLLGEATDSGMTVRIGHENAHEGLNSTSVVAVGYGSGDEAVAKLGVVGPTRMDYPGTMGAVRAVARYVGQILAES |
| 1791 | sp|Q47RP1|HRCA\_THEFY | MLDDRNVLDDRKLAVLRAIVEDYVSTNEPVGSKALAERHKLGVSPATIRNDMVALEELGYIAQPHTSAGRVPTDKGYRLFVDRLSKVKPLSKAERRAIETFLSGALDLDEIVSRTVRLLAHLTRQVAIMQYPSLTRSSVQHLELVPLGPQRLMLVLITNTGRVEQRVIDGLAEVSDDVVENLRGALNRALVGKWLTEAPKEFPTVLAQLPLEERPIAESVMSVLTESLVEKHEGKVVFGGTANLAAMGFSAGLRDVLEALEENVVLIRLLGEMGDASMLTVRIGAENNHEGLQSTSIVAAGYGIGDQTLAKLGVVGPTRMDYPGTMGAVRAVARYVGQILAGQ |
| 1792 | sp|B9LHR5|HRCA\_CHLSY | MSGPLTERRQMILKLVIQEFVDTATPVASETLVRKYRLPVSSATVRNDMAALEELGFLTHPHTSGGRIPTDAGYRFFVENLMERTTLSPAEQRMIRHQFYQVRGELDQWVQLACAVLARTAHNASVATAPRAEQLRFKSLELIAIHETMALAVIVFHGGIVKQQTLPIEPGRTPEDLRRAAGLVSDLLADATLSRAEELAAIATFNGVPLSEFERTLVDLVVRAMSVFEEQAQEQIYSDGILEMLSQPEFLPASGRDDAERAIERLRRTLEILKSGRGLSPLIPQALASGGVQVIIGGEHSEDTMRDYSVILARYGVEGALVGVLGVIGPTRMAYPRSISTVRYIASLMTNLLADLYHVNTRPSDIEPAAEL |
| 1793 | sp|Q0SRE1|HRCA\_CLOPS | MIDDRKLQILRAIIQDYISTGEPVGSRTIAKKYNLGVSSATIRNEMADLEDMGFLEQPHTSAGRIPSSRGYRLYVDRMIEFERLSSEEEGLIRNSIIDGTLYEVDKIIKQTSALLSELTKMTCIVKAPSVHKSFVKSIQLLKVDDVSILCVLVTDNGVIRNTVIKVKSVPISEELIKISKIITERLKNLTIEQINLEVISNLNRALNGYEDIVNAVLPALYESLKGDETSEVFLEGTINIFNYPEYNNIHKAKEILELLHDKKSISELISDSDDMTVKIGDEIFVPEAKECSIISAGYHVGDRSLGTIALIGPRRINYSKVLSIMTEVMKELNETLKNK |
| 1794 | sp|P45986|IMT1\_MESCR | MTTYTNGNYTQPKTLDKDEQLAGLAVTLANAAAFPMILKSAFELKILDIFSKAGEGVFVSTSEIASQIGAKNPNAPVLLDRMLRLLASHSVLTCKLQKGEGGSQRVYGPAPLCNYLASNDGQGSLGPLLVLHHDKVMMESWFHLNDYILEGGVPFKRAHGMIQFDYTGTDERFNHVFNQGMAHHTILVMKKLLDNYNGFNDVKVLVDVGGNIGVNVSMIVAKHTHIKGINYDLPHVIADAPSYPGVEHVGGNMFESIPQADAIFMKWVLHDWSDEHCVKILNKCYESLAKGGKIILVESLIPVIPEDNLESHMVFSLDCHTLVHNQGGKERSKEDFEALASKTGFSTVDVICCAYDTWVMELYKK |
| 1795 | sp|A4TGM6|IBPA\_YERPP | MRNSDLAPLYRSAIGFDRLFNLLESGQNQSNGGYPPYNVELVDENNYRIAIAVAGFAEQELEITTQDNLLIVRGSHANEPAQRTYLYQGIAERNFERKFQLAEHIKIKGANLVNGLLYIDLERLVPESLKPRRIEIK |
| 1796 | sp|B5BIJ1|IBPB\_SALPK | MRNYDLSPLLRQWIGFDKLANALQNSGESQSFPPYNIEKSDDNHYRITLALAGFRQEDLDIQLEGTRLTVKGTPEQPENEPKWLHQGLVMQPFSLSFTLAENMEVSGATFTNGLLHIDLTRNEPETIAPQRIAINERSALNS |
| 1797 | sp|A8A6E7|IBPA\_ECOHS | MRNFDLSPLYRSAIGFDRLFNHLENNQSQSNGGYPPYNVELVDENHYRIAIAVAGFAESELEITAQDNLLVVKGAHADEQKERTYLYQGIAERNFERKFQLAENIHVRGANLVNGLLYIDLERVIPEAKKPRRIEIN |
| 1798 | sp|C7F6X3|IBP\_LEUSY | MSLLSIITIGLAGLGGLVNGQRDLSVELGVASNFAILAKAGISSVPDSAILGDIGVSPAAATYITGFGLTQDSSTTYATSPQVTGLIYAADYSTPTPNYLAAAVANAETAYNQAAGFVDPDFLELGAGELRDQTLVPGLYKWTSSVSVPTDLTFEGNGDATWVFQIAGGLSLADGVAFTLAGGANSTNIAFQVGDDVTVGKGAHFEGVLLAKRFVTLQTGSSLNGRVLSQTEVALQKATVNSPFVPAPEVVQKRSNARQWL |
| 1799 | sp|B4TMX6|IBPB\_SALSV | MRNYDLSPLLRQWIGFDKLANALQNSGESQSFPPYNIEKSDDNHYRITLALAGFRQEDLDIQLEGTRLTVKGTPEQPENEPKWLHQGLVMQPFSLSFTLAENMEVSGATFTNGLLHIDLTRNEPETIAPQRIAINERSALNS |
| 1800 | sp|B7N3W1|IRAM\_ECOLU | MKWIVIDTVIQPTCGISFSAIWGDMKMIIWYQPTIFLTPGSIFTPVKSGIIFKDKEYPITIYNITPFNKDLWSLLKSSQECPPGESEITNKCLHNSCIIKICPYGLK |
| 1801 | sp|B7N8T4|IRAP\_ECOLU | MKNLIAELLFKLAQKEEESKELCAQVEALEIIVTAMLRNMAQNDQQRLIDQVEGALYEVKPDASIPDDDTELLRNYVKKLLKHPRQ |
| 1802 | sp|A8AK82|IRAP\_CITK8 | MKNLISELLLRLAQKEEESKELVAQVEALEIIVTAMLRNMAQNEQQKLIHQVEDALDGVKPDASVPDYDTELLRQYVKKLLRHPRS |
| 1803 | sp|Q9XI60|LPP2\_ARATH | MPEIHLGAHTIRSHGVTVARFHMHDWLILLLLIVIEIVLNVIEPFHRFVGEDMLTDLRYPLQDNTIPFWAVPLIAVVLPFAVICVYYFIRNDVYDLHHAILGLLFSVLITGVITDAIKDAVGRPRPDFFWRCFPDGIGIFHNVTKNVLCTGAKDVVKEGHKSFPSGHTSWSFAGLGFLSLYLSGKIRVFDQRGHVAKLCIVILPLLVAALVGVSRVDDYWHHWQDVFGGAIIGLTVATFCYLQFFPPPYDPDGWGPHAYFQMLADSRNDVQDSAGMNHLSVRQTELESVR |
| 1804 | sp|O51558|LON2\_BORBU | MIKNRKEDLPIVILKENVLFPNITLWVTFDNEYVINSIAQSMLEERLILFAYSNEPNCDESDRGVVKNLCSVGTYSKLIQVIKISKDVIKVLVECQSRVLIDSVSKKNDYLRAKVTFVPDSSGLNRELFTYSKFLKETYEAYRNSLSLKSYDADNEPINYFENPSKLVDIIASNSNLENSIKLELLQELNVKTRIEKLIVNLSIEIDLLDLKKDINSKVRAKLDKGQRDYFLSEQVKEIQKRLGKDENDYIDRLNSKDIPEDVKSKIEKEISRLSKMQMNSPDANIIRSYIELILDLPWNENTVMKNHLSEIEFILRNSHYGMDEAKEKIINFLAVYQINSKVKAPILCLVGPPGIGKTSLVESIARSLSREFVKISLGGLRDEAEIRGHRRTYVGSLPGVFISAMKRSGKSNPVILLDEIDKINSSYKGNPESALLEVLDPEQNYKFIDHYLEIPYDLSNVLFVTTANSLNGMSKPLLDRMEIIKVEGYSYIEKLEIAKIFLIPSIIKESFLDKVYIRIEDDVIFNLIRNYTMESGVRGLKRVLTNLIRRLVRELLYEYSKDQIIKGNFYSPSSLIHGNNSLFTHDPDIPGIYKIININNYYNYVDTEDNLDLIKIDSSGFVYGLAWTNYGGTVLPVEATKFEKKGDIILTGSLGAIMKESAQLAYSIVKTYSSKLNFDVKESPEIHLHFPEGATPKDGPSAGITIATAIASILSDKKVPLDLAMTGEVTLKGFVLPVGGIKEKVLAAYRNGISKVILPKDNKKDYSKLPEEVKDNIDVKFVSSLEEVFDYLNII |
| 1805 | sp|B8GX12|LON\_CAUVN | MSELRTLPVLPLRDIVVFPHMVVPLFVGRDKSVRALEEVMRGDKQILLVTQKNSADDDPAPGDIFEVGVLATVLQLLKLPDGTVKVLVEGKARAAVVSFTDQESYYEAQIGEVSEDDGAGPEAEALSRAVVEQFENYVKLNKKVPPEALASIPQIAEPGKLADSIAAHLSVKIGDKQNLLEIFDVVKRLEKVFALMEGEISVLQVEKKIRSRVKRQMEKTQREYYLNEQMKAIQRELGDPDDARDELIDLEKRIKKTKLSKEARTKAESELKKLRNMSPMSAESTVVRNYLDWLLSIPWGKAKTKKIDLVESEGILDADHYGLEKVKERILEYLAVQARTNSLKGPILCLVGPPGVGKTSLGKSIAKATGREFVRMSLGGVRDEAEIRGHRRTYIGSMPGKVVQSMKKAKTTNAFVLLDEIDKMGSDYRGDPASALLEVLDPSQNSTFGDHYLEVDYDLSQVMFVTTANSLNMPQPLLDRMEIIRIPGYTEDEKLEIAKRHILPKLAKDHGLKPAEFIVPDKAIRDLIRYYTREAGVRSLERELGALARKTVRDLAREKVASITIDDERLAKYAGVKKYRYGETDEVDQVGIVTGLAWTEFGGDILTIEAVKMPGKGRMQITGNLKDVMKESIAAANSYVRSRALQFGIKPPVFEKTDVHIHVPDGATPKDGPSAGIAMALAMVSVLTGIPIRKDIAMTGEITLRGRVTAIGGLKEKLLAALRSGVKTVLIPQENEKDLADVPQTVKDGLEIIPVSTVDEVLKHALTGPLTPVEWNEAEEPITTSAKKDDGDSDAMLTH |
| 1806 | sp|B7GXS7|LON\_ACIB3 | MSELIMNEKTDLEPQVPSVLPLLALRDVVVYPHMQIALFVGREKSINAVDVARNSDNLVFVVAQKDSLTEEIDHDNLYQYGTVAKIVQVVNHENDENCIKVLIEGLHRSKLKKIIDEDSYLTAEHELSPMTINVDKATQETRLQELRNLFAQYAEAKLRNARELVAAANKIEDLLQLMFFVATRVPLNIEIKQKFLEYDEFEAHLQELMNYLMNQSAEQQIEQTLHDSVKRQMEKNQREYFLNEKMKVIQRELSDMNGGAEDDVAEIEKRLAEADLPEHVRKKAEAEFRKLKAMQPASSEAAVVRNYLEVILDTPWNKASKVSINLNKAQEILDADHYGLDDVKDRIVEYLAVQSRVKKLKGPILCLVGPPGVGKTSLGESVAKATGREFVRMALGGVRDEAEIRGHRRTYIGAMPGKIVQSLTKVGVKNPLFLLDEIDKMAQDYRGDPASALLEVLDPSQNSKFNDHYLDLDLDLSEVMFICTANSMNIPEALLDRMEVIRLPGYTEDEKVNIAERYLVPKAIKNNGLRPKELTIHEEAIRDIVQRYTREAGVRNLEREVSKIARKVVKEAVSKKSKNLQLDVTSANLPEYLGPHKFDFGMAEDEAQVGRVNGLAWTSVGGELLTIEVAAVKGKGKFITTGSLGDVMKESITTAMTVVRTRADELGIEASRFEETDVHVHLPEGATPKDGPSAGLALTTALVSAFTGIAIRPDIAMTGETSLGGRAMRIGGLKEKLLAAHRGGIKLVFIPQDNVRDLAEIPDNVKEGLEIKAVKSIDEILPLALTSMPKPLPKTPIVKPVEGSKAARH |
| 1807 | sp|C8ZC82|MBR1\_YEAS8 | MRMEKTTDKPLSAGDMNDEYSRGPIDDIDCLNFFERAVQDPCCEACDTEDADEELRAKLSSFNFQPDSSPCNAKCQQTLNPLCKIDEALPAESELAPSRNGSVSEANSDTNSIASTVHDPVDSKYGGMPSLRKAKTTSYFTSSSSNNTTMRNPLKKCNTNINGLLVNGRSSSSSRQSIPELFSGACTKKKNNVLLKSETPNSEFSSNSLQHCNSRSFSLPRSRSRSSAIAIPTHLYGLEKYVSPELDTLTADPEESIERFSNNRPREISSCCPNDTGDTSSSLSHSNTSSSLNFPLGTNTNQFHQPRQPVQQQQSSKPNFGAGRKKSFIEMSLASSFAG |
| 1808 | sp|A0A1D1V3Z0|MAHS\_RAMVA | MSRYLLRDVQAVLRGVRKVAESSLKLETEKVSLRLGDFRSQPSLRSVPASLTSRSQAFSLQEIAARAGVVLRGVQQQFRNVTGVNAAPVVAFDNGSVLYSERIHSQSSQKQAPTTVPTGSVSNSPQPEGKANEAAERAKQFMNPPVAPMDPVDKNEFVAMPEMGRSNGNGENKQAADFMKNQGDTDMDSQYAPDSSKNTKSVPTKEIVAEDGSMSIEDIKKATQVTPGVAVKNEGV |
| 1809 | sp|Q9CXI5|MANF\_MOUSE | MWATRGLAVALALSVLPDSRALRPGDCEVCISYLGRFYQDLKDRDVTFSPATIEEELIKFCREARGKENRLCYYIGATDDAATKIINEVSKPLAHHIPVEKICEKLKKKDSQICELKYDNQIDLSTVDLKKLRVKELKKILDDWGEMCKGCAEKSDYIRKINELMPKYAPKAASARTDL |
| 1810 | sp|O08911|MK12\_MOUSE | MSSPPPARKGFYRQEVTKTAWEVRAVYQDLQPVGSGAYGAVCSAVDSRTGNKVAIKKLYRPFQSELFAKRAYRELRLLKHMRHENVIGLLDVFTPDESLDDFTDFYLVMPFMGTDLGKLMKHETLSEDRIQFLVYQMLKGLKYIHAAGVIHRDLKPGNLAVNEDCELKILDFGLARQADSEMTGYVVTRWYRAPEVILNWMRYTQTVDIWSVGCIMAEMITGKILFKGNDHLDQLKEIMKITGTPPPEFVQKLQSAEAKNYMEGLPELEKKDFASVLTNASPQAVNLLERMLVLDAEQRVTAAEALTHPYFESLRDTEDEPKAQKYDDSFDDVDRTLEEWKRVTYKEVLSFKPPRQLGARVPKETAL |
| 1811 | sp|Q90336|MK14A\_CYPCA | MSQKERPTFHRQEVNKTIWEVPVRYQNLSPVGSGAYGTVCSAYDEKTGLKVAVKKLSRPFQSIIHAKRTYRELRLLKHMKHENVIGLLDVFTPATSLEEFNDVYLVTHLMGADLNNIVKCQKLTDDHVQFLIYQILRGLKYIHSADIIHRDLKPSNLAVNEDCELKILDFGLARHTDDEMTGYVATRWYRAPEIMLNWMHYNMTVDIWSVGCIMAELLTGRTLFPGTDHINQLQQIMRLTGTPPASLISRMPSHEARTYINSLPQMPKRNFSEVFIGANPQAVDLLEKMLVLDTDKRITAAEALAHPYFAQYHDPDDEPEAEPFDQSFESRELDIEEWKRQTYEEVISFEPPVFDGDEMES |
| 1812 | sp|Q9DGE2|MK14A\_DANRE | MSQKERPTFYRQEVNKTIWEVPVQYQNLSPVGSGAYGSVCSAFDAKTGFKVAVKKLSRPFQSIIHAKRTYRELRLLKHMRHENVIGLLDVFTPATSLKEFNDVYLVTHLMGADLNNIVKCQKLTDDHVQFLIYQILRGLKYIHSADIIHRDLKPSNLAVNEDCELKILDFGLARHTDDEMTGYVATRWYRAPEIMLNWMHYNVTVDIWSVGCIMAELLTGRTLFPGTDHINQLQQIMRLTGTPPSSLISRMPSHEARTYISSLPQMPKRNFADVFIGANPQAVDLLEKMLVLDTDKRITAAEALAHPYFAQYHDPDDEPEAEPFDQSFESRELDIEEWKRQTYEEMISFEPPVFDVDEMES |
| 1813 | sp|Q7U0X4|MPRA\_MYCBO | MSVRILVVDDDRAVRESLRRSLSFNGYSVELAHDGVEALDMIASDRPDALVLDVMMPRLDGLEVCRQLRSTGDDLPILVLTARDSVSERVAGLDAGADDYLPKPFALEELLARMRALLRRTKPEDAAESMAMRFSDLTLDPVTREVNRGQRRISLTRTEFALLEMLIANPRRVLTRSRILEEVWGFDFPTSGNALEVYVGYLRRKTEADGEPRLIHTVRGVGYVLRETPP |
| 1814 | sp|Q6R0C4|MYB52\_ARATH | MMCSRGHWRPAEDEKLRELVEQFGPHNWNAIAQKLSGRSGKSCRLRWFNQLDPRINRNPFTEEEEERLLASHRIHGNRWSVIARFFPGRTDNAVKNHWHVIMARRGRERSKLRPRGLGHDGTVAATGMIGNYKDCDKERRLATTTAINFPYQFSHINHFQVLKEFLTGKIGFRNSTTPIQEGAIDQTKRPMEFYNFLQVNTDSKIHELIDNSRKDEEEDVDQNNRIPNENCVPFFDFLSVGNSASQGLC |
| 1815 | sp|P27056|NLTP1\_SOLLC | MEMVSKIACFVLLCMVVVAPHAEALTCGQVTAGLAPCLPYLQGRGPLGGCCGGVKNLLGSAKTTADRKTACTCLKSAANAIKGIDLNKAAGIPSVCKVNIPYKISPSTDCSTVQ |
| 1816 | sp|Q59XY9|OCA1\_CANAL | MASITSNSQILINNDSSTNKAPTTNERQLRRINHPPNLRIVPPLNFCPVENQLYRSGQPSIINQSFLNQLNLKTIIWLSSEEPTDEFLEYCNDSSINIEYLGMINEFNSEPATATTTDKQSQSQSQSQSEEQKSQSQSQSQENQHHQFEQSDNNLLQDPSHLISSTIAKINNNNPWDSLNENTIKHALDLIVDKTNYPILICCGMGRHRTGTVIGCLRRLQHWNLNSVSEEYRRFTGSRGGRILVELLIESFNIDLVNINWELAPDWLK |
| 1817 | sp|P9WI77|PKNE\_MYCTU | MDGTAESREGTQFGPYRLRRLVGRGGMGDVYEAEDTVRERIVALKLMSETLSSDPVFRTRMQREARTAGRLQEPHVVPIHDFGEIDGQLYVDMRLINGVDLAAMLRRQGPLAPPRAVAIVRQIGSALDAAHAAGATHRDVKPENILVSADDFAYLVDFGIASATTDEKLTQLGNTVGTLYYMAPERFSESHATYRADIYALTCVLYECLTGSPPYQGDQLSVMGAHINQAIPRPSTVRPGIPVAFDAVIARGMAKNPEDRYVTCGDLSAAAHAALATADQDRATDILRRSQVAKLPVPSTHPVSPGTRWPQPTPWAGGAPPWGPPSSPLPRSARQPWLWVGVAVAVVVALAGGLGIALAHPWRSSGPRTSAPPPPPPADAVELRVLNDGVFVGSSVAPTTIDIFNEPICPPCGSFIRSYASDIDTAVADKQLAVRYHLLNFLDDQSHSKNYSTRAVAASYCVAGQNDPKLYASFYSALFGSDFQPQENAASDRTDAELAHLAQTVGAEPTAISCIKSGADLGTAQTKATNASETLAGFNASGTPFVWDGSMVVNYQDPSWLARLIG |
| 1818 | sp|P32977|PORO\_PSEAE | MIRKHSLGFVASALALAVSAQAFAGTVTTDGADIVIKTKGGLEVATTDKEFSFKLGGRLQADYSRFDGFYTKNGNTADAAYFRRAFIELGGTAYKDWKYQINFDLSHNTGSSDNGYFDEASVTYTGFNPVNLKFGRFDPDFGLEKATSSKWVTAPERNAAYELADWINTHQDGMGAQVNSTLADMAYLSAGVSAKDADDSDGDSVKQFNFRGVFAPMHEAGNVLHVGVNYAYRDLDDTAFDSRIRPRLGMRGIATSGGNDAGDNGNRATFGGVSNSPAGSYKDDSVWGLEGAWAMGPFSAQAEYLARKLKADDNAYKDIKAKGYYAQLAYTLTGESRQYKLEGAKFDSVKPENKEIGAWEVFYRYDNIKVEDDNVVADTATREVGDTKAKAHNLGVNWYVNDAVKISAAYVKAKTDKITNNNGDDDGDGFVTRLQYVF |
| 1819 | sp|Q5YGP8|PLET1\_ARATH | MNSNNWLGFPLSPNNSSLPPHEYNLGLVSDHMDNPFQTQEWNMINPHGGGGDEGGEVPKVADFLGVSKPDENQSNHLVAYNDSDYYFHTNSLMPSVQSNDVVVAACDSNTPNNSSYHELQESAHNLQSLTLSMGTTAGNNVVDKASPSETTGDNASGGALAVVETATPRRALDTFGQRTSIYRGVTRHRWTGRYEAHLWDNSCRREGQSRKGRQVYLGGYDKEDKAARSYDLAALKYWGPSTTTNFPITNYEKEVEEMKHMTRQEFVAAIRRKSSGFSRGASMYRGVTRHHQHGRWQARIGRVAGNKDLYLGTFSTEEEAAEAYDIAAIKFRGLNAVTNFEINRYDVKAILESSTLPIGGGAAKRLKEAQALESSRKREAEMIALGSSFQYGGGSSTGSGSTSSRLQLQPYPLSIQQPLEPFLSLQNNDISHYNNNNAHDSSSFNHHSYIQTQLHLHQQTNNYLQQQSSQNSQQLYNAYLHSNPALLHGLVSTSIVDNNNNNGGSSGSYNTAAFLGNHGIGIGSSSTVGSTEEFPTVKTDYDMPSSDGTGGYSGWTSESVQGSNPGGVFTMWNE |
| 1820 | sp|Q9LS03|AOC1\_ARATH | MASSTISLQSISMTTLNNLSYSKQFHRSSLLGFSKSFQNFGISSNGPGSSSPTSFTPKKKLTPTRALSQNLGNTENPRPSKVQELSVYEINDLDRHSPKILKNAFSFRFGLGDLVPFTNKLYTGDLKKRVGITAGLCVVIEHVPEKNGDRFEATYSFYFGDYGHLSVQGPYLTYEDSFLAITGGAGIFEGAYGQVKLQQLVYPTKLFYTFYLKGLANDLPLELIGTPVPPSKDVEPAPEAKALKPSGVVSNFTN |
| 1821 | sp|G5CTG0|AQP3\_MILTA | MAISWRTWLKKTIHCDNSYVRTGLAEFLGTFLLVLLLNGMIITAHMSVRNADGTMAHPLNTAHLAFGGGLAVMVAVLVSGGISGAHLNPAVTTTMLVMGRLSPLKSLVYIFMQYMGAFFAASILYAVYFESILAYDYGERQVLGANGTAGWFATYPQEHISLVTQIFDAILGTGLLVMGIFAIIDPNNMAVPKGQIPLYVGFLISSLIFSFSYNAGAALNPARDLAPRLFLWVIGYGAEAFTARGHLWWLVPVIGPHVGGLLGGVTYQMFIGAHYQSDRKLKPATIMDEDDDTNATYNTITTTTHQKVYNGRRNFDESVPLKTVHA |
| 1822 | sp|P81669|BGAL\_PINPS | VNIGVNYGMLGNSYPTGPETERHFGLNPDTLHVVRHAQGFHNLA |
| 1823 | sp|B7L830|IBPB\_ECO55 | MRNFDLSPLMRQWIGFDKLANALQNAGESQSFPPYNIEKSDDNHYRITLALAGFRQEDLEIQLEGTRLSVKGTPEQPKEEKKWLHQGLMNQPFSLSFTLAENMEVSGATFVNGLLHIDLIRNEPEPIAAQRIAISERPALNS |
| 1824 | sp|B4SY76|IBPB\_SALNS | MRNYDLSPLLRQWIGFDKLANALQNSGESQSFPPYNIEKSDDNHYRITLALAGFRQEDLDIQLEGTRLTVKGTPEQPENEPKWLHQGLVMQPFSLSFTLAENMEVSGATFTNGLLHIDLTRNEPETIAPQRIAINERSALNS |
| 1825 | sp|P54071|IDHP\_MOUSE | MAGYLRAVSSLCRASGSARTWAPAALTVPSWPEQPRRHYAEKRIKVEKPVVEMDGDEMTRIIWQFIKEKLILPHVDVQLKYFDLGLPNRDQTNDQVTIDSALATQKYSVAVKCATITPDEARVEEFKLKKMWKSPNGTIRNILGGTVFREPIICKNIPRLVPGWTKPITIGRHAHGDQYKATDFVVDRAGTFKLVFTPKDGSSAKEWEVYNFPAGGVGMGMYNTDESISGFAHSCFQYSIQKKWPLYLSTKNTILKAYDGRFKDIFQEIFDKHYKTDFDKNKIWYEHRLIDDMVAQVLKSSGGFVWACKNYDGDVQSDILAQGFGSLGLMTSVLVCPDGKTIEAEAAHGTVTRHYREHQKGRPTSTNPIASIFAWTRGLEHRGKLDGNQDLIRFAQTLEKVCVQTVESGAMTKDLAGCIHGLSNVKLNEHFLNTTDFLDTIKSNLDRALGKQ |
| 1826 | sp|Q15418|KS6A1\_HUMAN | MPLAQLKEPWPLMELVPLDPENGQTSGEEAGLQPSKDEGVLKEISITHHVKAGSEKADPSHFELLKVLGQGSFGKVFLVRKVTRPDSGHLYAMKVLKKATLKVRDRVRTKMERDILADVNHPFVVKLHYAFQTEGKLYLILDFLRGGDLFTRLSKEVMFTEEDVKFYLAELALGLDHLHSLGIIYRDLKPENILLDEEGHIKLTDFGLSKEAIDHEKKAYSFCGTVEYMAPEVVNRQGHSHSADWWSYGVLMFEMLTGSLPFQGKDRKETMTLILKAKLGMPQFLSTEAQSLLRALFKRNPANRLGSGPDGAEEIKRHVFYSTIDWNKLYRREIKPPFKPAVAQPDDTFYFDTEFTSRTPKDSPGIPPSAGAHQLFRGFSFVATGLMEDDGKPRAPQAPLHSVVQQLHGKNLVFSDGYVVKETIGVGSYSECKRCVHKATNMEYAVKVIDKSKRDPSEEIEILLRYGQHPNIITLKDVYDDGKHVYLVTELMRGGELLDKILRQKFFSEREASFVLHTIGKTVEYLHSQGVVHRDLKPSNILYVDESGNPECLRICDFGFAKQLRAENGLLMTPCYTANFVAPEVLKRQGYDEGCDIWSLGILLYTMLAGYTPFANGPSDTPEEILTRIGSGKFTLSGGNWNTVSETAKDLVSKMLHVDPHQRLTAKQVLQHPWVTQKDKLPQSQLSHQDLQLVKGAMAATYSALNSSKPTPQLKPIESSILAQRRVRKLPSTTL |
| 1827 | sp|O62305|KCC2D\_CAEEL | MMNASTKFSDNYDVKEELGKGAFSVVRRCVHKTTGLEFAAKIINTKKLSARDFQKLEREARICRKLQHPNIVRLHDSIQEESFHYLVFDLVTGGELFEDIVAREFYSEADASHCIQQILESIAYCHSNGIVHRDLKPENLLLASKAKGAAVKLADFGLAIEVNDSEAWHGFAGTPGYLSPEVLKKDPYSKPVDIWACGVILYILLVGYPPFWDEDQHRLYAQIKAGAYDYPSPEWDTVTPEAKSLIDSMLTVNPKKRITADQALKVPWICNRERVASAIHRQDTVDCLKKFNARRKLKAAISAVKMVTRMSGVLRTSDSTGSVASNGSTTHDASQVAGTSSQPTSPAAEVYPNVLLFNPQKFPRNCVHPFTTHPYYSPKESSKKKLFFTLLFEVCPHTSRSHILLRDNTKNIYHPYHCFTNKMSNYERAAPSSHGSSTTKKIANAIADLVIRRSSPSIRRKTEADVHNSNRNRKVSAPANLQHALVPVIDVVVATGALASSSVDNLSASTSSDLGRNLLNKKEQGPPSTIKESSESSQTIDDNDSEKGGGQLKHENTVVRADGATGIVSSSNSSTASKSSSTNLSAQKQDIVRVTQTLLDAISCKDFETYTRLCDTSMTCFEPEALGNLIEGIEFHRFYFDGNRKNQVHTTMLNPNVHIIGEDAACVAYVKLTQFLDRNGEAHTRQSQESRVWSKKQGRWVCVHVHRSTQPSTNTTVSEF |
| 1828 | sp|Q4A696|LON\_MYCS5 | MQKKQTLNYVIVKTDEISFPFGYSEVLILEQDSIELLETTKFKFKNEDRLVIVYAEDVYTEEVKFLQRGLYIKPLDAKEVMYQGEKALILTFKALHFFDIQNFSYEMNQDEIMSANFLVDGNAKGTVGYEMVLSGHINNVEDVKENLMNEFRQDQNKMNFFSIFETLVNNSNSFGISTNNQAGTAMLFKQNYGAKDEVKPYDIEEIKALIDSKITQDNDPSEFLLNNFESLMTYFGFLDLNKFPHKWHLYNSFDYGNFTRLINEVGNFIQTALKLEENITSEISKKLNNQQKEFMLREKRKVIDDELAKLGKDTLQDDKDEYVKKLKNKTLKKMYPDSIKEIIRDETKRYSEMMQASPEANLVKNYVEYLKKLPWRKVSKDRLDIKYAREVLEKYHYGIKEVKERILEHLGVLINAQTYNKNYKNEVVSIDENYEIDLNLFKDKPSEKTVFNNVPILALVGPPGTGKTTLAKAISEALNKKYVKISLGGVKDESEIRGHRRTYVGAMPGKIVKGVAKAGVSNAVFLLDEIDKMASDHKGDPASAMLEVLDPEQNAQFQDHYLEQEYDLSKIIFIATANYFQNIPEALIDRVEVIELDPYTLNEKVQIAQKHLIPKVINEVYLDEKLFNIPEETLRFIINRYTREAGVRGLKRILDKIARKIVIKRVLEPDLKSFDISLNNLEELLGVAPYKTDEDKHDEIPGIATGLAYSTHGGSDLEIEVNVFKSEKGGIQLTGSLKDVMKESAQIALTYVRSNAKYFGIHSFDFDKHTIHIHVPEGATPKDGPSAGVTFTTAIISALTRLPVPNNYAMTGEITLQGKVLPIGGLKEKSFAAYWKKIKYVFIPHANIDNLQKIPDEIKREITYIPVKRYDEIFQILFRDQKPENTITFN |
| 1829 | sp|Q600B5|LON\_MYCH2 | MPTNSYRFLVASEDIYFQNTLQQSITFSDPESIKVLKDFYHSNSRPTLTNKDFLIVYRKEKEKDTKKKNSSVIKFPRNDFNSFEDSKNDIQNQAKILNGKVGDFENSLLPRIYDLDELSKYASLARIQSYRAKTSPDKSEWQTVILDFIVTEKVQLVELINDPQNPKVGQIIIKPVRETIKSPEIHINLINDLLEMARKAKNFRIPTELLLIVDKFGANSEYSTNEYIKGVTNTLSCSPSLTYPQKYQLFSYNSYPAKIKKLYEHIHTFAEQIKLEDEINVILKTNLDKQQTEFILKEKIKAIRKKLGEDSRYEDEIEELLHSELGKKVFPKEVAKTIMRETNKLKSMIVTSPESNITKSYLDLLVALPWKKVKKDILDIKNVREKLEEAHYGLDEIKKRIIEYLAALIHRRSQSEGKPELEKVGSDYIDSNLFLSHKIRKVRSNSIPILTLVGPPGTGKTSIAMAVAEAIGKEFVKISLGGIRDEAEIRGHRRTYVGALPGKIIQALKKVGVSNPLILLDEIDKMGADFKGDPSAAMLEVLDPEQNRFFQDHYLELEYDLSQVLFVATANEIYDIPEPLLDRVEIIELSSYTFIEKIQIAKSHLIPAVLKENALDPKYFPIQDQTIDFLIRHYTREAGVRGLKRVIDKIVRKIIVKLLEKTLDQNFVIDIEFVRELLGIEKYDPDNVDSSPQIGTVTGLGYSPLGGSTLQIEVSTIPGRGDIKLTGSLKDVMQESARIALSYVQSKAKDFGINFDFENTLIHIHVPEGAIPKDGPSAGITFATAIISALSQKPVSHNIAMTGEITLRGKVLAIGGLKEKTMGAYKNGIKIIFIPKANEKNLVDIPQEVKDVIQFIPVDTYQQIYDFIFK |
| 1830 | sp|Q6KI22|LON\_MYCMO | MKYPFMATRGVITFIGNSSTIEVGRPLSLAAIDLAKSDFENKLVLIPQKNIKQNEIEFEKDLENVGILTKIKSIKILSNGNRKIIVEGVERIKLDSIEKDKNNNDIIANLSLYPVLKNENGSSETIIEKMQTSLNNIIESNLPLVANQELSKHESSERYTYILAHYLTMPFEKKFEIFAKKSLTEMLELIFSFLVELKNIQKLDVDLDKDIKKNLDSQQREYLLRERLKVIQKKLGDDENDEEEIEEKLNSKYGKEQYPEEVIKTIKNEKRRLKNMMSSSPEANTSRTYIEWLTNLPWRKVSVDKTNLVKSKEILDSYHYGLKEVKERIIEFLAVMINNNKKHPEDEKTKIQIPNSDYEINKNLFTKKNASDDTYSYKSSNNVPILALVGPPGTGKTSLAKAIAETLDRKFIKISLGGVKDEAEIRGHRRTYVGALPGKIIQAIKKAGVSNPVILLDEIDKMSSDYKGDPTSAMLEVLDPEQNVNFQDHYIELEYDLSKVLFIATANYYQNISAPLLDRVEIIELSSYTSLEKIRIARDYLIKKVLEQNSLEESQFKISDESLDFLIKHYTLEAGVRNLQRALDKLARKIVVKSLENKLEKDFVITSEEIVNLLGVIKYTDDFKENYERIGAVNGLAYTQYGGSTLSIEVTTFPNSKGGIKLTGQLKEVMQESAQIALAFVRSNAKKYEIDFNFEANQIHIHVPEGAVPKDGPSAGVTFTTAIISALKQIPVSHKVGMTGEITLRGKVLPIGGLKEKSLAAHKLGIKTVFIPNENNRNLVEVADEVKESIEFISVSDYDEIFENLFGKLSDNKKITSNSKIPKKDISKANPTH |
| 1831 | sp|A8Z5Z0|LON\_SULMW | MLLHETESEYDSKSKKNNYSYYESSDFKPLIEKYNRIKYSVTEYIYLLTVKNVVLFPDVVIPITAVKQKSINLFKSAYYTYKKIGILTKKYFNTTFSIAKLNIQTFNIYSFNKFNKINKFNKINKFNKINKFNKINKFNKINKFNKTNNIYYIGTVAKILKLLIMPDGNTTVILQGISRFKIIKLIQVYPYFKAEIIYLKDEKPQKKDKEYLILIDSIKEIAIKIIQDNYKIPSESSFAISNIESKSFLINFVAYNLNIEIKNKQILLEYDFLKQRAIETFRFLNIEYEKIKLKNDIQYRVRYDIDQQQKEYFLNQQIKALQEELGDFSYEKEVEVLRIKSYKKNWSKEAQNQFDRELSKLKRTNPQMPEYTILRNYLDLMLDLPWKKYSQDNYDLYRAQKILDKDHFGIDKVKERIIEYLSVLKLKGDLRSPILCFYGPPGVGKTSLGRSIASALNRKYVRISLGGLNDEAEIRGHRKTYIGAMPGRVLQSIKKAGTSNPVFVLDEIDKMGLGSQGNPSSAMLEVLDPEQNKEFYDNFLEMGYDLSKVIFIATANSLYTINIALLDRMEIIDMNGYTVEEKIEISKKHLIPKQLKENGLKSKDIILGVKQIEKIIESYTRESGVRSLEKNISKIVRYAAKNIAMNKKYLKRINMSKIEEVLGPPNDPEKYELIQVPGVVTGLAWTIVGGEIIYIESTLLKGRGNLSITGNVGEVMKESATIAFKYIKAHNYEFGIDEKMFELYNIHIHAPEGGIHKDGPSAGITMLTSIISSFLKKKIRPYLAMTGEITLRGKVLPVGGIKEKILAAKRANIKEIILSKANKKDIDDIKKVYLKGLKFHFVSKMNEVIDLSIIK |
| 1832 | sp|P42425|LON2\_BACSU | MSWTGIALFIQLFFGIIIGLYFWNLLKNQRTQKVTIDKESKKEMEQLRKMRAISLSEPLSEKVRPKSFKDIVGQEDGIKALKAALCGPNPQHVIVYGPPGVGKTAAARLVLEEAKKHKQSPFKEQAVFVELDATTARFDERGIADPLIGSVHDPIYQGAGAMGQAGIPQPKQGAVTHAHGGVLFIDEIGELHPIQMNKMLKVLEDRKVFLDSAYYSEENTQIPNHIHDIFQNGLPADFRLIGATTRMPNEIPPAIRSRCLEVFFRELEKDELKTVAKTAADKIEKNISEEGLDLLTSYTRNGREAVNMIQIAAGMAVTENRKDITIEDIEWVIHSSQLTPKHEQKIGVEPQVGIVNGLAVYGPNSGSLLEIEVSVTAAQDKGSINITGIAEEESIGSQSKSIRRKSMAKGSVENVLTVLRTMGMKPSDYDIHINFPGGIPIDGPSAGIAMAAGIFSAIHKIPIDNTVAMTGEISLNGLVKPIGGVIPKIKAAKQSGAKKVIIPYENQQAILKQIDGIEIIAVKTFQEVLDEILVNPPTEQKPFHIEINKESV |
| 1833 | sp|B8F9K1|LON\_DESAL | MAHTDTDDLVGLLDADDQNLDIPATLPMLPVRDVVVFTHMIIPLFVGRDKSVRAVDAAMAKDRFLFLATQMDGAVENPESDQIFKHGTAARILRVLKLPDGRVKVLVQGLAKAKIVRYTKKSDMFRVRIELLHEEDLGDLDMETEALMRNVKESCEKILGLRGELTPDVTMVLDGIDHPGRLADLVASNLNLKIEEAQSIFETIDPVQRLLAVNGFVSREVELSAMQARIQSSVRDEISKSQKDYFLREQMRAINRELGEMDEKTQEIKEYQDKIRKAKMPKEAKEEAERQLKRLEQMHPEAGEAPTVRTYLDWLVEVPWKKATKDTLDIKKAKEILEEDHYGLEKVKDRILEYLAVRKLNPKMKGPILCFVGPPGVGKTSLGKSIARAMGRKFYRLSLGGIRDEAEIRGHRRTYIGALPGRIIQGLKHCKSNNPVFMMDEIDKIGADFRGDPSSALLEALDPEQNFAFSDHYLNVPFDLSSVMFITTANMTDTIPSALLDRMEVINLAGYTENEKVLIAQQYLVPRQVKENGLKPEDITISGNALLKMATEYTSESGLRNLEREIGTLCRKVSRKIAEGKKGPYQITASSLVKYLGLEKFLPEMDQEEPQIGLATGLAWTHWGGEALYIETTLMRGKGELVLTGQLGEVMQESARAALSYARTNEDELEIDPDLFDNFDIHIHVPAGAIPKDGPSAGIAMTTALVSALTERPVANDIAMTGEVTIRGRVLPIGGLREKSLGALRAGIKTIIIPEKNKKELSEVPQQVRRKLKYITVSHVNEVLEKALLPAEKKKAPPKKKPPKKAAKPKAKKTQPKAKTTEAADK |
| 1834 | sp|P10842|MATPI\_SCHPM | MKRVAVLLKTVMCEFLKCDYNGYDRIISLLRRILTLICTPNLNGLTIKRVIDSMQSLEYIKQTCNFKLQMCISSMAFKRNNALQNCNHYAWCDDHCSDIGRPMTTVRGQCSKCTKPHLMRWLLLHYDNPYPSNSEFYDLSAATGLTRTQLRNWFSNRRR |
| 1835 | sp|O02812|MK14\_CANLF | MSQERPTFYRQELNKTIWEVPERYQNLSPVGSGAYGSVCAAFDTKTGLRVAVKKLSRPFQSIIHAKRTYRELRLLKHMKHENVIGLLDVFTPARSLEEFNDVYLVTHLMGADLNNIVKCQKLTDDHVQFLIYQILRGLKYIHSADIIHRDLKPSNLAVNEDCELKILDFGLARHTDDEMTGYVATRWYRAPEIMLNWMHYNQTVDIWSVGCIMAELLTGRTLFPGTDHIDQLKLILRLVGTPGADLLKKISSESARNYIQSLTQMPKMNFANVFIGANPLAVDLLEKMLVLDSDKRITAAQALAHAYFAQYHDPDDEPVADPYDQSFESRDLLIDEWKSLTYDEVVSFVPPPLDQEEMES |
| 1836 | sp|Q9DGE0|MP2K6\_DANRE | MEGGSDKESKVFCDSPSPNPKGEMSVPSNVRGKKKLPKELKLPKEVFEKPAPAPTPPRDLDSKAYVTIGEKNFVVKADDLEQIGELGRGAYGVVDKMRHVPSGVIMAVKRIRATVNTQEQKRLLMDLDISMRTVDCFYTVTFYGALFREGDVWICMELMDTSLDKFYKQVHEKGKTIPEDILGKITVSIVKALEHLHSNLSVIHRDVKPSNVLINMQGQVKMCDFGISGYLVDSVAKTMDAGCKPYMAPERINPETNQKGYNVKSDIWSLGITMIELAILRFPYDSWGTPFQQLKQVVEEPSPQLPADRFSADFVDFTSQCLRKNSTERPTYTELMQHPFFTLHDSKDTDVASFVKTILGD |
| 1837 | sp|Q6K1S6|MYB30\_ORYSJ | MGRAPCCEKMGLKRGPWTAEEDRILVAHIERHGHSNWRALPRQAGLLRCGKSCRLRWINYLRPDIKRGNFTREEEDAIIHLHDLLGNRWSAIAARLPGRTDNEIKNVWHTHLKKRLEPKPSSGREAAAPKRKATKKAAAVAVAIDVPTTVPVSPEQSLSTTTTSAATTEEYSYSMASSADHNTTDSFTSEEEFQIDDSFWSETLAMTVDSTDSGMEMSGGDPLGAGGASPSSSNDDDMDDFWLKLFIQAGGMQNLPQI |
| 1838 | sp|Q9ZVP8|NAC35\_ARATH | MAIVSSTTSIIPMSNQVNNNEKGIEDNDHRGGQESHVQNEDEADDHDHDMVMPGFRFHPTEEELIEFYLRRKVEGKRFNVELITFLDLYRYDPWELPAMAAIGEKEWYFYVPRDRKYRNGDRPNRVTTSGYWKATGADRMIRSETSRPIGLKKTLVFYSGKAPKGTRTSWIMNEYRLPHHETEKYQKAEISLCRVYKRPGVEDHPSVPRSLSTRHHNHNSSTSSRLALRQQQHHSSSSNHSDNNLNNNNNINNLEKLSTEYSGDGSTTTTTTNSNSDVTIALANQNIYRPMPYDTSNNTLIVSTRNHQDDDETAIVDDLQRLVNYQISDGGNINHQYFQIAQQFHHTQQQNANANALQLVAAATTATTLMPQTQAALAMNMIPAGTIPNNALWDMWNPIVPDGNRDHYTNIPFK |
| 1839 | sp|Q75HE5|NAC2\_ORYSJ | MGMGMRRERDAEAELNLPPGFRFHPTDDELVEHYLCRKAAGQRLPVPIIAEVDLYKFDPWDLPERALFGAREWYFFTPRDRKYPNGSRPNRAAGNGYWKATGADKPVAPRGRTLGIKKALVFYAGKAPRGVKTDWIMHEYRLADAGRAAAGAKKGSLRLDDWVLCRLYNKKNEWEKMQQGKEVKEEASDMVTSQSHSHTHSWGETRTPESEIVDNDPFPELDSFPAFQPAPPPATAMMVPKKESMDDATAAAAAAATIPRNNSSLFVDLSYDDIQGMYSGLDMLPPGDDFYSSLFASPRVKGTTPRAGAGMGMVPF |
| 1840 | sp|Q58DT4|P5CR1\_BOVIN | MSVGFIGAGQLAFALAKGFTAAGVVAAHKIMASSPDMDLATVSALRKMGVNLTHHNKETVQHSDVLFLAVKPHIIPFILDEIAANIEARHIVVSCAAGVTISSIEKKLTAFQPAPKVIRCMTNTPVVVREGATVYATGTHAQVEDGRLLEQLMSSVGFCTEVEEDLIDAVTGLSGSGPAYAFTALDALADGGVKMGLPRRLAVRLGAQALLGAAKMLLDSEQHPGQLKDNVCSPGGATIHALHVLESGGFRSLLIKAVEASCTRTRELQSMADQEKVSPAAIKKTILDKVKLDSPPGTSLAPSGHSKLLPRSMAPAGKQD |
| 1841 | sp|Q05327|PDC3\_MAIZE | PNEPLRVNVLFKHVQKMLTGDSAVIAETGDSWFNCQKLKLPEGCGYEFQMQYGSIGWSVGALLGYPQGANHKRVIAFIGDGSFQVTAQDVSTILRCEQNSIIFLINNGGYTIEVEIHDGPYNVIKNWNYTGFVDAIHNGLGKCWTSKVKSEEDLTAAIETALGEKDCLCFIEVIAHKDDTSKELLEWGSRVSAANSRPPNPQ |
| 1842 | sp|P83075|PGK\_BACCE | MNKKSIRNVNLKGKRVFDRV |
| 1843 | sp|Q5VP70|PIN3A\_ORYSJ | MISGHDFYTVMAAVVPLYVAMFLAYGSVRWWGIFTPDQCSGINRFVAIFAVPLLSFHFISTNDPYAMNLRFLAADTLQKLLVLAGLAAWSRLPSRTGAPRLDWSITLFSLSTLPNTLVMGIPLLIAMYGPYSGSLMVQIVVLQCIIWYTLMLFLFEFRAARMLIADQFPDTAASIVSLHVDPDVVSLEGGHAETEAEVAADGRLHVTVRRSSVSRRSLLVTPRPSNLTGAEIYSLSSSRNPTPRGSNFNHADFFAMVGGGPPPPTPAAVRGSSFGASELYSLQSSRGPTPRQSNFDEHSARPPKPPATTTGALNHDAKELHMFVWSSSASPVSEVSGLPVFSGGGGGGALDVGAKEIHMVIPADLPQNNGSGKEHEEYGAVALGGGGGGENFSFGGGKTVDGAEAVDEEAALPDGLTKMGSSSTAELHPKVVDVDGPNAGGGAAGAGQYQMPPASVMTRLILIMVWRKLIRNPNTYSSLLGLAWSLVAFRWHVSMPAIVEKSISILSDAGLGMAMFSLGLFMALQPSIIACGKSAAVVSMAVRFLAGPAVMAAASIAIGLRGTLLHVAIVQAALPQGIVPFVFAKEYNVHPAILSTAVIFGMLIALPITLLYYILLGL |
| 1844 | sp|Q9LVZ5|PIFI\_ARATH | MAAAANTSAVFASPSQPLSSKRSFLYSSRIGPILRRFPRKKLDLQVKAVATTLAPLEEIKEYKLPSWAMFEMGTAPVYWKTMNGLPPTSGEKLKLFYNPAASKLTLNEDYGVAFNGGFNQPIMCGGEPRAMLKKDRGKADSPIYTMQICIPKHAVNLIFSFTNGVDWDGPYRLQFQVPKRWQNKPIEFFNEGLANELSQDGACERAIFPDSNVVPTRCTMIANLTVEGGDRCNLDLVPGCMDTNSEHFNPYANVDDGSCPLELSDSDE |
| 1845 | sp|P9WI70|PKNH\_MYCTO | MSDAQDSRVGSMFGPYHLKRLLGRGGMGEVYEAEHTVKEWTVAVKLMTAEFSKDPVFRERMKREARIAGRLQEPHVVPIHDYGEVDGQMFLEMRLVEGTDLDSVLKRFGPLTPPRAVAIITQIASALDAAHADGVMHRDVKPQNILITRDDFAYLVDFGIASATTDEKLTQLGTAVGTWKYMAPERFSNDEVTYRADIYALACVLHECLTGAPPYRADSAGTLVSSHLMGPIPQPSAIRPGIPKAFDAVVARGMAKKPEDRYASAGDLALAAHEALSDPDQDHAADILRRSQESTLPAPPKPVPPPTMPATAMAPRQPPAPPVTPPGVQPAPKPSYTPPAQPGPAGQRPGPTGQPSWAPNSGPMPASGPTPTPQYYQGGGWGAPPSGGPSPWAQTPRKTNPWPLVAGAAAVVLVLVLGAIGIWIAIRPKPVQPPQPVAEERLSALLLNSSEVNAVMGSSSMQPGKPITSMDSSPVTVSLPDCQGALYTSQDPVYAGTGYTAINGLISSEPGDNYEHWVNQAVVAFPTADKARAFVQTSADKWKNCAGKTVTVTNKAKTYRWTFADVKGSPPTITVIDTQEGAEGWECQRAMSVANNVVVDVNACGYQITNQAGQIAAKIVDKVNKE |
| 1846 | sp|Q83F55|CLPB\_COXBU | MRIDKFTTAFQTALADAQSLAVGRDHQFIEPAHVMKVLLEQTQGTVAPLLEQSKVNLSRLIDGVNKAIDSYPQVEGTGGEVHVSRELSKILTLMDKFAQQNKDQYISSEWFIPAALEAKGQLRDVLIEAGADKKAIEKNIMNLRKGERVTEQSAEDQRQALAKYTIDLTEKAETGKLDPVIGRDEEIRRTVQVLQRRTKNNPVLIGEPGVGKTAIVEGLAQRIVNGEVPEGLKQKRLLALDMGALIAGAKFRGEFEERLKAVLKDIAKEEGRVILFIDELHTMVGAGKAEGAMDAGNMLKPALARGELHCVGATTLDEYRKYIEKDAALERRFQKVLVEEPSTEDAIAILRGLKERYEVHHGVEITDPAIIAAATLSQRYITDRNLPDKAIDLIDEAASQIRMEMDSKPVELDRLERRLIQLKIEREALKKETDEASKKRLSDLETEIKNVEKEYSDLEEVWKSEKASLHGTQQIKEELEQARIELEAAGRAGDLARMSELQYGIIPELDKKLKAASQKEEQFHDHKLLRSRVTEEEVAEVVSKWTHIPVSKMLEGEREKLLHMETELHKRVIGQDEAVNAVANAIRRSRAGLSDPNRPVGSFLFLGPTGVGKTELCKALAVFLFDTEDAMVRIDMSEFMEKHSVARLIGAPPGYVGYEEGGYLTEAIRRRPYSVILLDEIEKAHNDVFNVLLQVLDDGRLTDGQGRTVDFRNTVIVMTSNLGSDLIREFSGENYDKMKDAVMEVVAQHFRPEFINRIDEAVVFHSLKKEQIRNIAIIQIDRIKKRLKEKDYQLTISDDALDYLSELGYDPVYGARPLKRVLQQQLENPLSQKILEGKFVPGSLINIEKKGEQLEFKEA |
| 1847 | sp|Q9XEC6|CRK36\_ARATH | MERSNLFHIPCFLLLFLLFNINGVHTTFVCGDEDFSPNTSYVENLESLLPSLASNVIRERGFYNVSLDGVYALALCRKHYEVQACRRCVDRASRTLLTQCRGKTEAYHWDSENDANVSCLVRYSNIHRFGKLKLEPIGNVPHSSLDPSSNLTRISQEFAARANRTVEVASTADESSVLKYYGVSSAEFTDTPEVNMLMQCTPDLSSSDCNHCLRENVRYNQEHNWDRVGGTVARPSCYFRWDDYRFAGAFDNLERVPAPPRSPQTRQDYRVKKGRMFQPWSVVVVVFPTGINLAVFVAFVLAYRRMRRRIYTEINKNSDSDGQATLRFDLGMILIATNEFSLENKLGQGGFGSVYKGILPSGQEIAVKRLAGGSGQGELEFKNEVLLLTRLQHRNLVKLLGFCNEGNEEILVYEHVPNSSLDHFIFDEDKRWLLTWDVRYRIIEGVARGLLYLHEDSQLRIIHRDLKASNILLDAEMNPKVADFGMARLFNMDETRGETSRVVGTYGYMAPEYVRHGQFSAKSDVYSFGVMLLEMISGEKNKNFETEGLPAFAWKRWIEGELESIIDPYLNENPRNEIIKLIQIGLLCVQENAAKRPTMNSVITWLARDGTFTIPKPTEAAFVTLPLSVKPENRSMSERKDKDPFSVDEVSITVLYPR |
| 1848 | sp|A0A125S9M6|CYTAR\_HYPDU | MYSSMASSIRGSTVHLSDRVHSKDELQALNTRLAKYIDKIRNLENENVALQRQLQTAEQTTVTEIHRVSKNYDEELAKLRKQLEDVLRDNARLQMERNSTESENKQLQQRVAQLEKQVRTLEARLRQAEDLVADLQHRLSQSLDVRQQLESDNKDLKNQINSLKGQIQQLKQDYDNERVRTADLENKLQTKEEEHEFEKNALHENLREEKSQRQYLLHDLQRGLQDEFESKLVQQLNELRAEYDEMIKGVRAEVEAKSESRIRDLMAMADQQGDTVTRLQQELEEWRKRSQTTEAELDRLRKENANLNAQLTEIQRQKDDQIRALQQQIRKRQEELQRINDDLGDLTRQYQDLLYVKLALDAELATYNKLLSGEEQRLGMDGSGTVIRRPTGGATGTGSGIYGGTGSGGYSRDIGSTTTTKTTYTSRPTYNYTPIATTPIGGTSTTGRYTPVGGQTLAARQPSPGGSLGRERDIPVLREQKITETFKASGRVGPRTDW |
| 1849 | sp|Q03957|CTK1\_YEAST | MSYNNGNTYSKSYSRNNKRPLFGKRSPNPQSLARPPPPKRIRTDSGYQSNMDNISSHRVNSNDQPGHTKSRGNNNLSRYNDTSFQTSSRYQGSRYNNNNTSYENRPKSIKRDETKAEFLSHLPKGPKSVEKSRYNNSSNTSNDIKNGYHASKYYNHKGQEGRSVIAKKVPVSVLTQQRSTSVYLRIMQVGEGTYGKVYKAKNTNTEKLVALKKLRLQGEREGFPITSIREIKLLQSFDHPNVSTIKEIMVESQKTVYMIFEYADNDLSGLLLNKEVQISHSQCKHLFKQLLLGMEYLHDNKILHRDVKGSNILIDNQGNLKITDFGLARKMNSRADYTNRVITLWYRPPELLLGTTNYGTEVDMWGCGCLLVELFNKTAIFQGSNELEQIESIFKIMGTPTINSWPTLYDMPWFFMIMPQQTTKYVNNFSEKFKSVLPSSKCLQLAINLLCYDQTKRFSATEALQSDYFKEEPKPEPLVLDGLVSCHEYEVKLARKQKRPNILSTNTNNKGNGNSNNNNNNNNDDDDK |
| 1850 | sp|F6AA62|DEGPL\_PSEF1 | MSMPSLKKYAAALFAVFLMGQSVAAHAQLPDFTPLVEAASPAVVNISTRQKVPNAVASNGGLSVPDLEGLPPMFREFFERSIPQQPRAPGGGGRQREAQSLGSGFIISKDGYILTNNHVVADADEIIVRLSDRSELEAKLIGTDPRSDVALLKVEANDLPTVKLGNSDNLKVGEWVLAIGSPFGFDHSVTAGIVSAKGRSLPNESYVPFIQTDVAINPGNSGGPLFNLDGEVVGINSQIFTRSGGFMGLSFAIPMSVAMDVADQLKASGKVSRGWLGVVIQEVNKDLAESFGLEKPAGALVAQVLEDGPAAKGGLQVGDVILSLDGKPIIMSADLPHLVGALKPGTKANLEIVREGSRKTLKVAVGTMPADDGDEATNDAAPSAERSSNRLGVSVAELTDEQKKALDLRGGVVIREVQDGPAALIGLRPGDVITHLNNQAITSAKNFTEVAQSLPKNRSVSMRVLRQGRASFITFKLAE |
| 1851 | sp|A6UEY0|DNAK\_SINMW | MAKVIGIDLGTTNSCVSVMDGKDAKVIENAEGARTTPSMVAFTEDGERLVGQPAKRQAVTNPENTLFAIKRLIGRTFEDPTTQKDKGMVPYKIVKADNGDAWVEAHDKSYSPSQISAMILQKMKETAESYLGEKVEKAVITVPAYFNDAQRQATKDAGKIAGLDVLRIINEPTAAALAYGLDKKEGKTIAVYDLGGGTFDISVLEIGDGVFEVKSTNGDTFLGGEDFDMRLVEYLASEFKKEQGIDLKNDKLALQRLKEAAEKAKIELSSSQQTEINLPFITADASGPKHLTMKLSRAKFESLVDDLIQKTIAPCKAALKDAGVSAAEIDEVVLVGGMTRMPKVQETVKQLFGKEPHKGVNPDEVVAMGAAIQAGVLQGDVKDVLLLDVTPLSLGIETLGGVFTRLIERNTTIPTKKSQVFSTADDNQSAVTIRVSQGEREMAADNKLLGQFDLVGIPPAPRGVPQIEVTFDIDANGIVQVSAKDKGTGKEHQIRIQASGGLSDAEIEKMVKDAEANAEADKKRREGVEAKNQAESLVHSSEKSLQEHGDKVSETDRKAIEDAIAALKSAVEASEPDAEDIKAKTNTLMEVSMKLGQAIYEAQQTESAHADAAADAKRSGDDVVDADYEEVKDEDDRKRSA |
| 1852 | sp|F4JKI3|DGK6\_ARATH | MVQSETSMEKYKNLSDFLKKFFIPSYVLSPEDEPEAQISCTTAPENPILVFINSKSGGQLGAELILTYRTLLNDKQVFDLEVETPDKVLQRIYLNLERLKDDSLASKIRDKLKIIVAGGDGTAGWLLGVVSDLNLSNPPPIATVPLGTGNNLPFAFGWGKKNPGTDRSSVESFLGKVINAKEMKIDNWKILMRMKHPKEGSCDITLKLPHSLPRIFPSDQENMEGYHTYRGGFWNYFSLGMDAQVSYAFHSQRKLHPERFKNQLVNQSTYLKLSCTQGWFFASLFHPSSQNIAKLAKIQICDRNGQWNDLHIPQSIRSIVCLNLPSFSGGLNPWGTPNPKKQRDRSLTAPFVDDGLIEIVGFRNAWHGLILLSPNGHGTRLAQANRVRLEFKKGAAKHAYMRIDGEPWKQPLPSNDETVMVEISHHGQVNMLATQNCRSKSMYESSSIIRFSNDEDDSSVVENEEF |
| 1853 | sp|A1RGN1|DNAK\_SHESW | MGKIIGIDLGTTNSCVAVLDGGKARVLENAEGDRTTPSIIAYTDDETIVGSPAKRQAVTNPTNTFFAIKRLIGRRFKDDEVQRDVNIMPFKIIQADNGDAWVESRGNKMAPPQVSAEILKKMKKTAEDFLGEEVTEAVITVPAYFNDSQRQATKDAGRIAGLDVKRIINEPTAAALAYGIDKKQGDNIVAVYDLGGGTFDISIIEIDSNDGDQTFEVLATNGDTHLGGEDFDNRLINYLADEFKKEQGLDLRKDPLAMQRLKEAAEKAKIELSSTNHTEVNLPYITADATGPKHLVIKITRAKLESLVEDLILRTLEPLKVALADADLSVSDVNEVILVGGQTRMPKVQEAVTNFFGKEPRKDVNPDEAVAVGAAIQAGVLSGDVKDVLLLDVTPLSLGIETMGSVMTKLIEKNTTIPTKAQQVFSTADDNQSAVTIHVLQGERKQASANKSLGQFNLDGIEPAPRGQPQIEVMFDIDADGILHVSATDKKTGKKQNITIKASSGLSEEEVAQMVRDAEAHADEDKKFEELVQARNQADGLVHATKKQVEEAGDALPSEDKEKIQAAMAAVDTATKGNDKEAIEKASQELIEASAKLMEIAQAKSQAQGGAETNAGKQANAAADDVVDAEFEEVKDDKK |
| 1854 | sp|P0A549|DNAJ1\_MYCBO | MAQREWVEKDFYQELGVSSDASPEEIKRAYRKLARDLHPDANPGNPAAGERFKAVSEAHNVLSDPAKRKEYDETRRLFAGGGFGGRRFDSGFGGGFGGFGVGGDGAEFNLNDLFDAASRTGGTTIGDLFGGLFGRGGSARPSRPRRGNDLETETELDFVEAAKGVAMPLRLTSPAPCTNCHGSGARPGTSPKVCPTCNGSGVINRNQGAFGFSEPCTDCRGSGSIIEHPCEECKGTGVTTRTRTINVRIPPGVEDGQRIRLAGQGEAGLRGAPSGDLYVTVHVRPDKIFGRDGDDLTVTVPVSFTELALGSTLSVPTLDGTVGVRVPKGTADGRILRVRGRGVPKRSGGSGDLLVTVKVAVPPNLAGAAQEALEAYAAAERSSGFNPRAGWAGNR |
| 1855 | sp|Q086J3|DNAK\_SHEFN | MGKIIGIDLGTTNSCVAVLDGGKARVIENAEGDRTTPSIIAYTDDEIIVGQPAKRQAVTNPTNTFFAIKRLIGRRFKDDEVQRDVNIMPFKIIGADNGDAWVESRGNKMAPPQVSAEILKKMKKTAEDFLGEEVTEAVITVPAYFNDSQRQATKDAGRIAGLDVKRIINEPTAAALAYGIDKKQGDNIVAVYDLGGGTFDISIIEIDSNDGDQTFEVLATNGDTHLGGEDFDNRMINYLADEFKKDQGLDLRRDPLAMQRLKEAAEKAKIELSSTNHTEVNLPYITADASGPKHLVVKITRAKLESLVEDLIQRTLEPLKVALADADLSISDINEVILVGGQTRMPKVQEAVTNFFGKEPRKDVNPDEAVAVGAAIQAGVLSGEVKDVLLLDVTPLSLGIETMGSVMTKLIEKNTTIPTKAQQVFSTADDNQSAVTIHVLQGERKQASANKSLGQFNLEGIEPAPRGQPQVEVMFDIDADGILHVSATDKKTGKKQNITIKASSGLSDEEVEQMVRDAEAHADEDAKFEELVQARNQADGLAHSTKKQVEEAGDALASDEKEKIEAAIATLETAIKGKDKEAIDTATQALIEASAKLMEIAQAKAQGEAEGQAHDAGQEKPADDVVDAEFEEVKDDKK |
| 1856 | sp|Q73T77|DNAJ2\_MYCPA | MAQREWVEKDFYKELGVSSDASPEEIKRAYRKLARDLHPDANPDNPAAGERFKAVSEAHNVLSDPAKRKEYDETRRLFAGGGFGGRRFDTGGFGGFNVGGDGAEFNLNDLFDAAGRSGGTNIGDLFGGLFGRASGGRPSRPRRGNDLETETQLDFVEAAKGVAMPLRLTSPAPCTNCHGSGARPGTSPKVCPTCNGSGVISRNQGAFGFSEPCTDCRGSGSIIEHPCDECKGTGVTTRTRTINVRIPPGVEDGQRIRLPGQGEAGLRGAPSGDLYVTVHVRPHKVFGRDGDDLTVTVPVSFTELALGSTISVPTLDGKVGVRVPKGTADGRILRVRGRGVPKRSGGHGDLLVTVKVAVPPNLDGAAQEALEAYAAAERASGFDPRAGWAGNR |
| 1857 | sp|Q83MH5|DNAK\_SHIFL | MGKIIGIDLGTTNSCVAIMDGTIPRVLENAEGDRTTPSIIAYTQDGETLVGQPAKRQAVTNPQNTLFAIKRLIGRRFQDEEVQRDVSIMPFKIIAADNGDAWVEVKGQKMAPPQISAEVLKKMKKTAEDYLGEPVTEAVITVPAYFNDAQRQATKDAGRIAGLEVKRIINEPTAAALAYGLDKGTGNRTIAVYDLGGGTFDISIIEIDEVDGEKTFEVLATNGDTHLGGEDFDSRLINYLVEEFKKDQGIDLRNDPLAMQRLKEAAEKAKIELSSAQQTDVNLPYITADATGPKHMNIKVTRAKLESLVEDLVNRSIEPLKVALQDAGLSVSDIDDVILVGGQTRMPMVQKKVAEFFGKEPRKDVNPDEAVAIGAAVQGGVLTGDVKDVLLLDVTPLSLGIETMGGVMTTLIAKNTTIPTKHSQVFSTAEDNQSAVTIHVLQGERKRAADNKSLGQFNLDGINPAPRGMPQIEVTFDIDADGILHVSAKDKNSGKEQKITIKASSGLNEDEIQKMVRDAEANAEADRKFEELVQTRNQGDHLLHSTRKQVEEAGDKLPADDKTAIESALTALETALKGEDKAAIEAKMQELAQVSQKLMEIAQQQHAQQQTAGADASANNAKDDDVVDAEFEEVKDKK |
| 1858 | sp|Q1RGI8|DNAK\_ECOUT | MGKIIGIDLGTTNSCVAIMDGTTPRVLENAEGDRTTPSIIAYTQDGETLVGQPAKRQAVTNPQNTLFAIKRLIGRRFQDEEVQRDVSIMPFKIIAADNGDAWVEVKGQKMAPPQISAEVLKKMKKTAEDYLGEPVTEAVITVPAYFNDAQRQATKDAGRIAGLEVKRIINEPTAAALAYGLDKGTGNRTIAVYDLGGGTFDISIIEIDEVDGEKTFEVLATNGDTHLGGEDFDSRLINYLVEEFKKDQGIDLRNDPLAMQRLKEAAEKAKIELSSAQQTDVNLPYITADATGPKHMNIKVTRAKLESLVEDLVNRSIEPLKVALQDAGLSVSDIDDVILVGGQTRMPMVQKKVAEFFGKEPRKDVNPDEAVAIGAAVQGGVLTGDVKDVLLLDVTPLSLGIETMGGVMTTLIAKNTTIPTKHSQVFSTAEDNQSAVTIHVLQGERKRAADNKSLGQFNLDGINPAPRGMPQIEVTFDIDADGILHVSAKDKNSGKEQKITIKASSGLNEDEIQKMVRDAEANAEADRKFEELVQTRNQGDHLLHSTRKQVEEAGDKLPADDKTAIESALTALETALKGEDKAAIEAKMQELAQVSQKLMEIAQQQHAQQQTAGADASANNAKDDDVVDAEFEEVKDKK |
| 1859 | sp|Q182E8|DNAK\_CLOD6 | MGKIIGIDLGTTNSCVAVLEGGEAQIIANSEGMRTTPSVVAFTKDGERIVGEPAKRQAVTNADKTITSIKTHMGTDYKVNIDGKSYTPQEISAIILQKLKSDAESYLGQTVTEAVITVPAYFTDAQRQATKDAGRIAGLDVKRIINEPTAAALAYGMDKLDQEKKILVFDLGGGTFDVSILEIGDGTFEVLATAGNNRLGGDDFDQIVIDYLAEEFKKAEGVDLRNDKMALQRLKEAAEKAKKELSSTMSSNINLPFITATAEGPKHLNIDLSRAKFEELTRGLVEKTMEPTKTALQDAGLSTGDIDDVLLVGGSTRIPAVQEAVKKFIGKEPHKGINPDECVAAGASIQAGVLAGDVKDLLLLDVTPLSLGIETMGNVMTKIIERNTTIPTKKSQIFSTAADNQTAVDIHVLQGERSMAYDNTTLGRFQLTDIPPAQRGIPQIEVTFDIDANGIVNVSAKDLGTGKEQKITITSNTNLSEAEIEQKIKEAEMNAEADKQKKEKIEAFNQAESTIYQTEKTLNELGDKISSGEKEDIEKAIADLKAVKDNQDATAEELKKATDEVMTKFQKVSQEMYQKAAQEQQAAQGAEQAQDNGPKDDNVVDADFKEVDEDK |
| 1860 | sp|P0CW06|DNAJ\_METMZ | MATKRDYYEILGLSKDSSVEDIKKTYRKLALQYHPDRNKEPGAEEKFKEISEAYAVLSDAEKRAQYDRFGHAGIDNQYSAEDIFRGADFGGFGDIFEMFFGGGRRGGPMGPRRGSDLQYDLYVTFEEAAFGVRKDIDIPRTERCSTCSGTGAKPGTSPKRCPNCGGTGQVRTTRSTLGMQFVSTTTCSACHGRGQVVESPCPTCSGAGRVRSRRKMSVNVPAGADSGMTLRLSGEGDAGEPGAPSGDLYIIVHVMEHKYFKRVDYDVISELPISFTQAALGADIMVDTLYGKVKMNIPSGTQTHSVFRLKDKGIQRLQGHGKGDQLVRVIIRTPTKLTQEQKDLLHQFEYLSNGKKPEAEERSRSDKQKSEKPRKSKGLFEKVKDAFES |
| 1861 | sp|Q0A7E4|DNAJ\_ALKEH | MSKSDYYEALGVARNASDSEIKKAYRRMAMKYHPDRNPGDKEAEARFKEAKEAYEILSDPQKRAAYDQFGHAGVDPSAGMGGAGGPGGPGGPDFADIFSDVFGDIFGGGGRRGGGGRRVFRGADLRYNLELSLEDAVRGTEVQIRVPTQEVCDACDGKGTKEGSQPETCPTCKGHGDVRIQQGFFSVQQTCPRCGGSGSVITDPCRKCGGRGRVQSQKTLSVRVPAGVDTGDRIRLSGEGEPGENGGPPGDLYVQIMVREHEFFQRDGANLRCEVPISITKAALGGEVEVPTLDGRVNLRIPAGAQSGKVFRVRGKGVKPVRGGPQGDLLCRVHVETPVNLTKKQKELLEEFGRTMDDTGDKHTPRTSSWLDKARKFFEDWKL |
| 1862 | sp|Q38W92|GRPE\_LACSS | MTKQEKAENQEKPTEETVEETPKKETPFEPVMEADEVEETTEAQAPVEEADDKLAELQKKYDAMEDSFLRSQAEIKNIQMRNQKEQANLLKYDGQSLAKDVLPVLDNLERALAAEATDESAESLKKGVQMTYDHMKHALEDHGVKEIEAQGQAFDPTIHQAVQTVAVDGDQKADTVVQVFQKGYYLKDRVLRPAMVVVAQ |
| 1863 | sp|Q74IT5|GRPE\_LACJO | MSKEEFPHEKDLKDEVTPDKAPKKDPKAAPKEEVKENPVENYEKEIAELTAKNKDLEDKYLRSEAEIQNMQARYAKERAQLIKYESQSLAKEVLPAMDNLERALAVKADDEAAKQLQKGVQMTLDSLVKSMKDQGITEIKAEGETFDPSLHQAVQTVAAENDERKDRVVKVLQKGYQYKDRTLRPAMVVVAQ |
| 1864 | sp|Q87WN9|GRPE\_PSESM | MADEQNLDAQAQDQAAEAGAGDELTTRVQVLEEQLAAAQDQSLRVAADLQNVRRRAEQDVEKAHKFALEKFAGDLLPIIDSLERGLDLSNPDDESIRPMREGIELTLKMFQDTLKRYQLEAIDPHGQPFSADQHQAMAMQESADVEPNTVLKVFQKGYQLNGRLLRPAMVVVSKAPSPATPSINEQA |
| 1865 | sp|Q2J322|GRPE\_RHOP2 | MTDSNGPKDNNQDQAQAAADPVVSKPYIMPDDPEDGANEALIKEAAEARDKMLRTLAEMENLRRRTQKEVADARTYGVSAFARDVLEIADNLQRALDAVPAEARANADAGLKGLIEGVELTERSLINALEKNGVRKFDPSGEKFDPNFQQAMYEVPDPSVPAGTVVQVVQAGFMIGERVLRPALVGVAKGGAKPAPAATNGTDTTA |
| 1866 | sp|A2S2A7|HFQ\_BURM9 | MSNKGQLLQDPFLNALRKEHVPVSIYLVNGIKLQGNIESFDQYVVLLRNTVTQMVYKHAISTVVPARPVNFHPDAEAAS |
| 1867 | sp|C1DD48|HFQ\_LARHH | MSAKGQMLQDPFLNILRKEHVPVSIYLVNGIKLQGQIESFDQYVVLLKNTVTQMVYKHAISTVVPARPVQVPHEHPAPAAGTAEI |
| 1868 | sp|A7FUK7|HFQ\_CLOB1 | MTKVVNNLQDIFLNGARKNRIPVTIYLTNGFQLKGFVKGFDNFTVILDSDGKQMMIYKHAISTINPAKPLLFVQNPNGDDYKDKE |
| 1869 | sp|B0R9M2|KDPQ\_HALS3 | MSARNETGYERVLVPVGDKSDPNMLTELSSILVDPRRGAVRFTHVTTDRSFVGSQENWRTGSDSVAESQHTLREEGIESTGTIRTASSALDGILEEAEEYEADAILIGWTDKDSVSSLVDKLLRKAGCDVIVFSADRDPIDTDSILVPVVVKPDANRLQMLAIMSQRTGASITFTYVTGDEGTDEEGRGLLDQSAERLAEYGVQAETELKSASSAVDALGQLSEDYDVMVIGTSRGWWLRKTLFGRKTDKIAQEAQCSLLMHKWQGEVPPES |
| 1870 | sp|P93664|LHSR1\_CHLRE | MAMMMRKAAAVPASSRRSVAVNSVSGKRTVSGKAGAPVPEDVLAYAKTLPGVTAPFDNVFDPAGFLATASVKDVRRWRESEITHGRVAMLAALGFIVGEQLQDFPLFFNFDGRVSGPAIYHFQQIGQGFWEPLLIAIGVAESYRVAVGWATPTGTGFNSLKDDYEPGDLGFDPLGLKPTDPEELKTLQTKELNNGRLAMIAIAAFVAQELVEQTEIFEHLVLRFEKEVILELEDVERDLGLPLTPLPDNLKAI |
| 1871 | sp|P65258|LDH2\_STAAM | MKTFGKKVVLIGDGSVGSSYAFAMVTQGVADEFVIIDIAKDKVKADVQDLNHGTVHSPSPVDVKAGEYEDCKDADLVVITAGAPQKPGETRLQLVEKNTKIMKSIVKSVMDSGFDGYFLIAANPVDILTRFVKEYTGLPAERVIGSGTVLDSARLQYLISQELGVAPSSVDASIIGEHGDTELAVWSQANVAGISVYDTLKEQTGSEAKAEEIYVNTRDAAYEIIQAKGSTYYGIALALMRISKAILNNENNVLNVSIQLDGQYGGHKGVYLGVPTLVNQHGAVKIYEMPLSAEEQALFDKSVKILEDTFDSIKYLLED |
| 1872 | sp|P99119|LDH2\_STAAN | MKTFGKKVVLIGDGSVGSSYAFAMVTQGVADEFVIIDIAKDKVKADVQDLNHGTVHSPSPVDVKAGEYEDCKDADLVVITAGAPQKPGETRLQLVEKNTKIMKSIVKSVMDSGFDGYFLIAANPVDILTRFVKEYTGLPAERVIGSGTVLDSARLQYLISQELGVAPSSVDASIIGEHGDTELAVWSQANVAGISVYDTLKEQTGSEAKAEEIYVNTRDAAYEIIQAKGSTYYGIALALMRISKAILNNENNVLNVSIQLDGQYGGHKGVYLGVPTLVNQHGAVKIYEMPLSAEEQALFDKSVKILEDTFDSIKYLLED |
| 1873 | sp|Q38933|LCYB\_ARATH | MDTLLKTPNKLDFFIPQFHGFERLCSNNPYHSRVRLGVKKRAIKIVSSVVSGSAALLDLVPETKKENLDFELPLYDTSKSQVVDLAIVGGGPAGLAVAQQVSEAGLSVCSIDPSPKLIWPNNYGVWVDEFEAMDLLDCLDTTWSGAVVYVDEGVKKDLSRPYGRVNRKQLKSKMLQKCITNGVKFHQSKVTNVVHEEANSTVVCSDGVKIQASVVLDATGFSRCLVQYDKPYNPGYQVAYGIVAEVDGHPFDVDKMVFMDWRDKHLDSYPELKERNSKIPTFLYAMPFSSNRIFLEETSLVARPGLRMEDIQERMAARLKHLGINVKRIEEDERCVIPMGGPLPVLPQRVVGIGGTAGMVHPSTGYMVARTLAAAPIVANAIVRYLGSPSSNSLRGDQLSAEVWRDLWPIERRRQREFFCFGMDILLKLDLDATRRFFDAFFDLQPHYWHGFLSSRLFLPELLVFGLSLFSHASNTSRLEIMTKGTVPLAKMINNLVQDRD |
| 1874 | sp|Q1IPZ8|LON\_KORVE | MANEAHNIEHTDPEFRDDSADARTLPLLPVRDTVLFPHAVLPLTVGRESSVQLINSLGEDKTIVVVAQREARVDSPQPSDLFAIGSLAVVHKVVKMPNQSLFVFAEGLERVRVTEYVQLNPYMRATVETVPEAFPPKSAEIEALQRNVLTLFQQIVTGSPTLSDELSTVAMNIEEPGRLVDFVASSLPSLSTKDKQEILETADVQIRLDKINQHLAKELEVQQLRNKIQSEVQDRVQQTQREYYLREQLKAIQKELGEQDDSTRDADELREKVEAAGMPDDVKKEALKELGRLARMSPMAADYSVTRNYIEWLAVLPWQKSSGAGEIDIPKAKDILDEDHYDLQKVKDRILDYLSVRRLKPNMKGPILCFSGPPGVGKTSLGKSIARALGRKFVRISLGGVHDEAEIRGHRRTYIGALPGQIMQGIRRAETNDPVFMLDEIDKVGRDFRGDPSAALLEALDPEQNNSFRDNYLDVPFDLSKVLFITTANQLDPIPEPLRDRMEIIDLQGYSEEEKVHIAFRYLIPRQEEENGITKDMIEFSEEAVRRIIRHYTREAGVRNLERNIGTVCRKLARRIAEGKTEKLAVTPQTITEMLGGEKVRVDTEIAERTKRAGVVVGLAWTPAGGDILFVEATTMKGKGGFTMTGQLGDVMRESMQAALSWVKSNAGKLGIDEEFFEKHDIHIHVPAGAIPKDGPSAGVTMVTALVSLLTDKPLRPLTAMTGEITLSGNVLPIGGVKEKTLAAKRAGVKTIILPSENKMNMDEDLTPEQLQGIEVHYVKTIDEVLEIALPSNKAEEKQDARTRAEVLNEVPAV |
| 1875 | sp|O83536|LON\_TREPA | MAKNTDIEHDAHEPAGHGDVRESAVENPSASAVSDGEERATFAPEVAPQTDTESAQGAAQESEPEVQRAGEAEKGVPEKAKAVVPLDELLPQKVHLIPLTGRPIYPGIFTPLLISDEDDVRSVESAYSDSGFIGLCLVKTDTQNPTISDLYEVGSVARIVKKINLPDGGLNVFISTQKRFRIRKHVHHSKPIVAAVQYLSDLIEGDPLEIKALVRGLIGEMKELSENNPLFSEEMRLNMINIDHPGKIADFIASILNISKEEQQRTLEILDVRKRMEEVFVYIKKEKDLLEIQRKIQNDLNSRVEKNQREYFLREELRSIKEELGLTTDPKERDQRKFRALIDSFHFEGEVKEAVESELEKLSLTDPNSPEYSVGRTYLETVLSLPWHAPEKEEYDLKKAQKLLDEDHYGLENVKERIVEYLAVRKLRADTKGSIILLVGPPGVGKTSVGKSIARAIHKPFFRFSVGGISDEAEIKGHRRTYIGALPGKVLQGLKIVKTKAPVFMIDEVDKIGSGARGDPAGALLEVLDPEQNTTFRDHYLDLPFDLSHIVFVLTANSTDPIPRPLLDRAEIIRLSGYIDTEKVEIAKRHLVPKTLEKNGLKRACVSYRKEVLLHLVHSYARESGVRGLEKSLDKLHRKLATEIVLGKRSFDDKCLMDEALIGTFLGKPVFRDDMLKDANKVGTAVGLAWTGMGGDTLLVEAITIPGKASFKLTGQMGAVMKESASIALSWLRRYSAQQRIASPNWFEKRAIHLHIPEGATPKDGPSAGITMTTTLFSLLTQQKVKPRLAMTGELSLTGQVLPIGGLKEKTIAARRGGIKEIIMPKANVRDLDEIPEHVKKGMVFHLVESMEEVLSLAFPKGKRVRAGTAAQSASPETLTG |
| 1876 | sp|B3CUN9|LON\_ORITI | MAQVLNDISNRVLPLFPIRNTVLFPGLVLPILIGRDDSVKNLLRLGNDSENQHTILLTTQKNADDIKPSINSLYKIGVLAKITELVQLPNDNYKILIKVLDRVKLTIRRSHDLLVAEYVIVPDDEINNADEIKDKLANAIVLFNKYIRLSKKINPDLLVHVLSYTNQSYVVNALAANLICNVANKQSLLEITDVKQRIERLTDHVAKEIIIMETDELITSKAQKNLEKMQRDCFLNEKMKIIKNVLGVDDEKSDIAELQKKIDTLHLSKEAKAKAESELKKLKMMNPISAEAALTRNYLDILLGLPWKKEKESKININIDKALQDLNADHHGLEKVKERITEYLAVLQRTKKSIGTILCFIGPPGVGKTSLVKSIAEATKCKYAKFALGGVRDEAEIRGHRKTYIGAMPGKIISLIKRENSNNLVILLDEIDKISRDSRGDPAFALLEVLDPEQNSRFQDNYLEVEYDLSKVLFIATANSFNFPIPLRDRMEIIQIPGYVEGEKLEIAKHHLIPKQIKNNGLKNTEISFSDEAILELIRYYTREAGVRGLERKIGGICRKVLKKILSSKDIKSESVSKENIKDYLGSRKYKYGLAEDDNQVGITIGLAYTETGGDLIWVEAVMIPGKGKVKATGKLGDVMKESSQTAFSYFCSRAQKYNVKYEQYHKYDIHIHFPEGAIPKDGPSAGIAIFTTIVSLMTGIPVKLSVAMTGEITLRGRILPIGGLKEKLMAAKRGGIKTVIIPEGNTSDLEDIPNSIKNDLDIIPLSEADQVLDIALATTVTNSPAETAC |
| 1877 | sp|B3QSJ7|LON\_CHLT3 | MTDHTKEHENTPSMGFLDGLVNSISQQPKAIEEEIKFDGALPVLPLRNTVLFPDVIVPIGVARQRSIALLESLAPNSPVVFLMQTDADIDAPTPDELHKNGSVGLVLRTLRMPDNSMSVIVQGVKRVVVEAFTQTEPYLAAKVTPKDEEELEGVEFDAYARTTKQLASKIIELSPNSPNEASYAIQSIENTRFLIHFIASNISVPAAEKQKMIEAEGMKARAERLIHFLNREVQVLELSKQIQTKVKTDMDRSQREFILRQQLKTIQQELGEQDAQMQDVEKLREAVEKKNLPEEVTSVVSKEIDKLSRIPQASPDYSVTRNYVDTILALPWGHFSETVINLHEAEKILNQDHYGLGKVKDRILEYLAVLKLKSNMKAPILCFCGPPGVGKTSLGRSIARALGRKFIRISLGGVRDEAEIRGHRRTYIGSMPGRIIQGIKTAGTSNPVFMLDEIDKIGADFRGNPSSALLEVLDPAQNNAFSDHYLEIPYDLSKVMFIATANTLDPIPVPLRDRMEIINLSGYTEYEKLHIAERYLIPRQLEEHGIRPEDVSFDALTTKKIINAYTREAGVRNLERQIANVCRVIAKDIVIRRESDQPDETPITVVTADLKKYLGMEQFYPDVSEPVMLSGVAVGLAWTPVGGDILFIESTVMKGTGRLILTGQLGDVMKESAQAALSYLKSCADYFKIPDEAFRYWDVHVHVPQGAIPKDGPSAGVTILTSLASIYTQRKVKPCIAMTGEITLRGRILPVGGIKEKVLAAKRAGITEILLPEKNEKDVKEALETNGGAFSDVSFKYFHEMDDLIDYVLEPAENGAPQFKVEDKDHTPETTGNESE |
| 1878 | sp|B2KCC0|LON\_ELUMP | MIAENKDYVKPDVNTLPAVLPAVAIRDVVMFPGMSLPLSVSRSKSIAAINLALDSNKYVVAVAQKEAEVEDPKAEDIYRFGVLSEITQSLKMPDGSIKVFLQGIARVKIEHLDFNNIANSWFASVFYPADEKVSGPEVTALMRQLLDEFEEYATVSRRIAVEGVSFFRQIEDPSRLADTIASNIIVKTSDRQDVLEAVNPKDRLELLIKILANEVEIISLEEKIHSKVRAQIEKNQKEYYLNEQMKAIQKELSQKDDFQKEIDELRSKIKKNGLPKNAKESAEKELDRLAKMAPFSPESTVSRTYLDWLVNMPWNSSTNDILDLKKAKEVMDADHYGLDKPKERILEYLAVSKLTNSLKGPILCFAGPPGVGKTSLAKSIASAVGRKFVRMSLGGVRDESEIRGHRRTYIGSMPGRIIQGISKAKSNNPVFLLDEIDKMGSDWRGDPAAALLELLDPEQNKDFSDHYLDVPFDVSKVMFITTANSLSSIPVTLRDRLEIIDFSGYTEYEKEAIAQNHLIPRQMKEHGLKEGSLEIGLPAVKLIMRDYVREAGVRNFEREISTICRKAAKMYVENCGKTVTVTKDNLHDFLGVPRYTNFTTEENGVGISTGLAWTSVGGETLSIEASEISDGKGRIMLTGKLGDVMKESVHAALTYARSKGYGKGIDFNKTDFHIHFPEGAVPKDGPSAGTAVTTALISLLTKNPVKKNLAMTGEVTITGRVLPIGGVKEKFMAAYREGVKTILYPHTNEKDVSEVPEVIRKQLKLIPVKHMDEIVKIAFEKGEPKSSFKKSKTAPKKESAKKAAKSKKPAVKKPAVKKTKQVKKTAKKKK |
| 1879 | sp|Q95NE7|MK14\_PANTR | MSQERPTFYRQELNKTIWEVPERYQNLSPVGSGAYGSVCAAFDTKTGLRVAVKKLSRPFQSIIHAKRTYRELRLLKHMKHENVIGLLDVFTPARSLEEFNDVYLVTHLMGADLNNIVKCQKLTDDHVQFLIYQILRGLKYIHSADIIHRDLKPSNLAVNEDCELKILDFGLARHTDDEMTGYVATRWYRAPEIMLNWMHYNQTVDIWSVGCIMAELLTGRTLFPGTDHINQLQQIMRLTGTPPAYLINRMPSHEARNYIQSLTQMPKMNFANVFIGANPLAVDLLEKMLVLDSDKRITAAQALAHAYFAQYHDPDDEPVADPYDQSFESRDLLIDEWKSLTYDEVISFVPPPLDQEEMES |
| 1880 | sp|P9WGM9|MPRA\_MYCTU | MSVRILVVDDDRAVRESLRRSLSFNGYSVELAHDGVEALDMIASDRPDALVLDVMMPRLDGLEVCRQLRGTGDDLPILVLTARDSVSERVAGLDAGADDYLPKPFALEELLARMRALLRRTKPEDAAESMAMRFSDLTLDPVTREVNRGQRRISLTRTEFALLEMLIANPRRVLTRSRILEEVWGFDFPTSGNALEVYVGYLRRKTEADGEPRLIHTVRGVGYVLRETPP |
| 1881 | sp|Q7GCL7|NAC74\_ORYSJ | MESLRDMVLPPGFGFHPKDTELISHYLKKKIHGQKIEYEIIPEVDIYKHEPWDLPAKCDVPTQDNKWHFFAARDRKYPNGSRSNRATVAGYWKSTGKDRAIKMGKQTIGTKKTLVFHEGRPPTGRRTEWIMHEYYIDERECQACPDMKDAYVLCRITKRNDWIPGNGNELDNSDPHPEPYDAPPSVISTEQLNPAAEPVVGVEAAPVTVAEPDGVTTSAITANIPSPSDDINLDDWLNELFDPFFDPEQSLASADLSPDEQNVESSNVGALAPKVEQDYSSPNENVVDDTEYLLPEDVYNILHPGTDDFNMLQNPLDQYPIQYATDVWSGIQKEELWSPQANAEPSQSNEAADNGIIRRYRSMKTPETSVPQFKGKTQAKMRVGINKMATSSSESINQTIKFENSGRLVEHQKNQAHDVASTKRSDAGKPSTELSSNRGFLRGIRNAFAGCSDARWNMILVAGFAIGVAVVALHIGQRLGLSQRDQQHT |
| 1882 | sp|A0A4P7TS68|OMPR\_SHIFM | MQENYKILVVDDDMRLRALLERYLTEQGFQVRSVANAEQMDRLLTRESFHLMVLDLMLPGEDGLSICRRLRSQSNPMPIIMVTAKGEEVDRIVGLEIGADDYIPKPFNPRELLARIRAVLRRQANELPGAPSQEEAVIAFGKFKLNLGTREMFREDEPMPLTSGEFAVLKALVSHPREPLSRDKLMNLARGREYSAMERSIDVQISRLRRMVEEDPAHPRYIQTVWGLGYVFVPDGSKA |
| 1883 | sp|Q95LI9|PARK7\_CHLAE | MASKRALVILAKGAEEMETVIPVDVMRRAGIKVTIAGLAGKDPVQCSRDVVICPDASLEDAKKEGPYDVVVLPGGNLGAQNLSESAAVKEILKEQENRKGLIAAICAGPTALLAHEIGFGSKVTTHPLAKDKMMNGGHYTYSENRVEKDGLILTSRGPGTSFEFALAIVEALNGKEVAAQVKAPLVLKD |
| 1884 | sp|Q5A4X8|PGA14\_CANAL | MKFTTVATVFAISSLAAAKGGEKDHGKASTVTKYVTETTHRYGRFDKTSRSKKPKETGTHRYGKFNKTPRPVTTTVLVKESDLPKKRDAVVARDSKNASSNSTTSSGNNGVATGVSLGLAGVLAVGAALVI |
| 1885 | sp|Q17446|PMK1\_CAEEL | MFPQTTMDHILHPTPREGYYVVELNRSVWVVPNYYINLTPIGTGAYGTVCAAECTRSGTRVAIKKFNRPFQSIIHARRTYRELRLLRCMCHENIIDLLDVFTPNENVNDIEDVYFVSMLMGADLSNILKIQRLNDDHIQFLVYQILRGLKYIHSADIIHRDLKPSNIAVNEDCELKILDFGLARQTDSEMTGYVATRWYRAPEIMLNWMHYTQTVDVWSVGCILAELITGKTLFPGSDHIDQLTRIMSVTGTPDEEFLKKISSEEARNYIRNLPKMTRRDFKRLFAQATPQAIDLLEKMLHLDPDRRPTAKEAMEHEYLAAYHDETDEPIAEEMDLNDDVRADTIDEWKKIIWEEISDFQKNVAFADEEEDEEKMES |
| 1886 | sp|Q5X3M7|DNAK\_LEGPA | MAKIIGIDLGTTNSCVAVMEGDKPKVIENSEGHRTTPSIVAFTDDNEILVGQSAKRQSVTNPEKTLFAIKRLIGRRFDDPIVQKDIKMVPYKIMKADNGDAWVRVKDQDKAPPQISAEVLRKMKKTAEDYLGEEVKEAVITVPAYFNDSQRQATKDAGRIAGLEVKRIINEPTAAALAYGMDKKRGDSVIAVYDLGGGTFDISIIEIAEVDGEHQFEVLATNGDTFLGGEDFDLALIEYLASEFKKDTGIDLHNDPLALQRLKEAAEKAKIELSSAQQTDVNLPYITADASGPKHLNIKLTRAKLESLVEKLVERTIEPCKTALKDAGLTVSQINEVILVGGQTRMPLVQKTVEEFFGKEPRKDVNPDEAVAVGAAIQAAVLSGEVKDILLLDVTPLSLGIETMGGVMTKLIEKNTTIPTKATQVFSTADDNQTAVTVHVLQGEREQASANKSLGRFDLRDIPPAPRGVPQIEVTFDIDANGILNVSAKDKATGKAQSIVIKASSGLSEEEVAAMVKDAQSHAEEDKKFKEMAELRNQADSLIHSCEKSMKDLADELSEDEKKGIETAISELKEAVQGTDKTRIEDKLKVLTDASAKMAERIYAKKSSEGQAAQGQTQSQESTKPVEEGVVDAEFEEVKEEDKK |
| 1887 | sp|Q2GI75|DNAJ\_EHRCR | MSKSDYYDLLGVSKSATPEEIKKAYRKMALKYHPDKNPGNKEAEEKFKELSEAYDVLIDQDKRAAYDKYGHNAFDSSGRGGFDFNSGFSGDFSDIFNDLFGGGFRGGRGSSRRHDSGAVGSDLRFDIEITLEDSFNGKKVPISYVTYVKCSSCSGSGSEGSAKSVQCSTCHGVGNVRTQQGFFTIERTCHVCNGEGEIIQNKCKKCSGSGRVRDEVNLLVTIPKGIESGNKIRLNGKGEAGYRGARSGDLYVYSNIQKHKFFTRNGSDLYCNVPIKMTLAALGGHIEMPSIDGTWTKVKVPEGSQNGDKLRLKEKGMPIINSSKRGDMYIQITVETPVKLTKKQKELLQKFDDEPNVDCNPQSTGFFQKVKSFWKDIRSN |
| 1888 | sp|Q14GX0|DNAJ\_FRAT1 | MQQKCYYEILNVSKTASGVEIKRAYRKLAMEYHPDRNPGDKEAEIKFKEISEAYEILSDDSKRSRYDQFGHAGVNQQSGFGGTGGFGGFEDIFDTFFGGGTSRGSNRSRASRGSDLEYTLEITLEEAFFGVEKEITIPRMESCDSCDGTGSKSRSKTTCHACHGQGTIRRQQGFFAFEQTCPVCNGTGYSITDPCDACYGNGKVKKQKTLKVKIPEGVDNGDRIRLQGEGDSGSNGAMNGDLYVQIIIKEHKIFERRDINLYCEMPISFTKACLGGDIKVPTLDGEVVLKVVPETQTGKVFRLREKGMKSLRGHRRGDLLCKVVVETPVNLSAEQKELLEKFADSLGEDYQSKHAPKSKTWFDNVKDYAKKFFE |
| 1889 | sp|B3EE31|DNAJ\_CHLL2 | MKKDYYEVLGVSRSASKDEIKKAYRKLALQYHPDKNPDNKDAEEHFKEVNEAYEVLSNDDKRRRYDQFGHAGVGSSAASGAGGAYAGGATDFNDIFSAFNDMFGGGRARGGGAPFGFEEVFGGGGGAGRRGRTSAGISGTDLKIRLKLTLEEIAKGVEKTLKIKKQIVCKECNGSGSKTGATEPCQTCHGSGEVRQASKTMFGQFVNITACPTCGGEGRVVKDRCTACYGEGIKQGDVTVKVTVPAGVQDGNYLTLRGQGNAGPRGGAPGDLIVVIEEKPHELFRRDGNDVIFNLALSYPDLVLGTKIDVPTLDGAVKLTIPPATQPESMLRIPGQGIGHLRGSGKGDQLVRVNVYVPKDLSHHEKELLKELKKTAAFSPSGSNNDKEEKSFFEKARDIFS |
| 1890 | sp|Q7V9C8|DNAJ\_PROMM | MADYYDLLGVSKDADGDTLKRAYRRLARQYHPDINKDPGAEDRFKEIGRAYEVLSDPQTRGRYDQFGEAGLGGAAGMPDVGDMGGFADLFETFFSGFGGAGGSGGARPRRRGPQQGDDLRYDLKIDFEQAVFGQEREIKIPHLETCDTCNGTGAKVGSGPTTCSTCGGVGQVRRATRTPFGSFTQVAECPSCEGTGQVIADPCPACAGQGVRQVRKKLRINIPAGVDTGTRLRVAGEGNAGLRGGPSGDLYVFLTVKSHPQLRRDGITVLSEVNVSYLQAILGDIIEVDTVDGNTSLEIPAGTQPNAVLTLENKGIPKLGNPVARGNQRISINVKLPIRLSDEERGLLEELAGHHSAKGRQHHHHNSGLFARLFGQKG |
| 1891 | sp|Q892R0|DNAK\_CLOTE | MAKVIGIDLGTTNSCVSVMEGGNPVVITNSEGARTTPSVVSFQDNGERLVGQIAKRQAITNPHKTIMSIKRYMGTDHKETIDGKEYTPQELSAIILQKLKADAEAYLGGTVTQAVITVPAYFNDSQRQATKDAGRIAGLEVLRIINEPTAASLAYGLDKMDTNQKILVYDLGGGTFDVSILELGDGVFEVKSTNGNTKLGGDDFDQRIIDHIAETFKKDSGIDLRTDKMALQRLKEAAEKAKIELSSSTQTNINLPFITADATGPKHIDMNLTRAKFNELTQDLVEGTLTPMKKALQDAEMSIGEIDKVILVGGSTRIPAVQDAVKNFTGKEPSKDVNPDECVAMGAAVQAGVLTGDVKDVLLLDVTPLTLGIETLGGVATPLIERNTTIPTRKSQVFSTAADGQTSVEIHVVQGERQMAADNKTLGRFTLSGIAPAPRGIPQIEVTFDIDANGIVNVSAKDKGTGKEANITITASTNLSDDEVEKAVNDAKKFEEEDKKRKESVEVKNNAEQIFYQTEKTLNELGDKVSAEDKATIEEKLNALKGVKDGEDIEAIKKATEDLTQAFYQISSKIYQDAGAPGAEGFDSNMAGEANAGQNANNDDNVVDADYKVEDDEK |
| 1892 | sp|Q5FGQ8|DNAJ\_EHRRG | MSKSDYYDLLGLSKNATPEEIKKAYRKMALKYHPDKNPGDKAAEEKFKELSEAYDVLIDKDKRAAYDRYGHSAFSDGSGRGGFDFNSGFSTDFSDIFNDLFGGGFRGGRSSSKRQDGGTVGSDLRLDIEITLEDSFNGTKVPINYVTHVKCSSCSGSGSEGSVKSVQCNTCHGAGNTRTQQGFFTIERTCHVCNGEGEIIKNKCKKCSGSGRVRDEVNLLVTVPKGIESGDKIRLNGKGEAGYRGAQSGDLYVYPNIKKHKFFTRNGADLYCNVPIKMILATLGGHIEMPSIDGTWTKVKVPEGSQNGDKLRLKEKGMPVINSSRRGDMYIQITVETPINLTKQQKELLKKFDEEPNTVECNPQSTGFFQKVKSFWNDIRSS |
| 1893 | sp|A5UBQ1|DNAK\_HAEIE | MGKIIGIDLGTTNSCVAVMDGDKARVIENAEGARTTPSIIAYTDNETLVGQPAKRQAITNPKNTLFAIKRLIGRRFESEEVQRDIKIMPFEITRADNGDAWVNVKGDKLAPPQISAEVLKKMKKTAEDFLGEAVTEAVITVPAYFNDAQRQATIDAGKIAGLDVKRIINEPTAAALAFGLGSSKENQVIAVYDLGGGTFDISIIEIDNFDGEQTFEVLATGGNTHLGGEDFDNRVIDYIIDEFKKEQNIDLRNDAMALQRVKEAAEKAKIELSSAQSTEVNLPYITADATGPKHLALNITRAKLEALVEDLVASSIESLKAVLKDAGKGVSEIHDIILVGGQTRMPLVQQKVAEFFGKEARKDVNPDEAVAIGAAVQGGVLKGDVKDVLLLDVTPLSLGIETMGGVMTTLIEKNTTIPTKKSQVFSTAEDNQSAVTIHVLQGERKRAADNKSLGQFNLEGINPAPRGMPQIEVTFDIDANGVINVSAKDKNTGKEQQIRIQASSGLSDEEIQQMVRDAEANADADRKFEEVVQARNQADGIAHATRKQIAEAGDALSVADKEKIETAVAELETAAKGEDKAEIEAKIEAVIKASEPLMQVAQAKAQQAGGEQPQQSSAKDDGVVDAEFEEVKDNK |
| 1894 | sp|B7MAD6|DNAJ\_ECO45 | MAKQDYYEILGVSKTAEEREIKKAYKRLAMKYHPDRNQGDKEAEAKFKEIKEAYEVLTDSQKRAAYDQYGHAAFEQGGMGGGGFGGGADFSDIFGDVFGDIFGGGRGRQRAARGADLRYNMELTLEEAVRGVTKEIRIPTLEECDVCHGSGAKPGTQPQTCPTCHGSGQVQMRQGFFAVQQTCPHCQGRGTLIKDPCNKCHGHGRVERSKTLSVKIPAGVDTGDRIRLAGEGEAGEHGAPAGDLYVQVQVKQHPIFEREGNNLYCEVPINFAMAALGGEIEVPTLDGRVKLKVPGETQTGKLFRMRGKGVKSVRGGAQGDLLCRVVVETPVGLNEKQKQLLQELQESFGGPTGEHNSPRSKSFFDGVKKFFDDLTR |
| 1895 | sp|C6BYN5|DNAJ\_DESAD | MSKRCYYEVLEVSREAQEGEIKRAYRKKAMEFHPDRNPGNAEAEEKFKEAAEAYDVLRDPEKRSRYDRFGHQGMNGMNGGFGGFQSSEDIFGAFGDIFGDIFGFGGGGRGANRMQAGSDLRYNLTVSFRDAAKGTEVELNIPVTDTCDTCEGSGSAPGTSPETCSHCGGRGAVEQNQGFFRISVPCPACNGRGKVITDPCSECRGAGYVRKQKDLNVRIPAGVDNGSRLRLRGEGEAGMNGGPHGDLYVVITVEPDKVFKRQGQDLVLSTEITFVQAALGYKLEVPTLDEPIEMDIPKGTQSGEVFQLRGLGLPYLGSSHKGDLLVEVKVKTPTGLNSRQEELLREFEALDEEKPMKKVKKLFKKAKDKVMGE |
| 1896 | sp|P68837|DNAK\_STRP8 | MSKIIGIDLGTTNSAVAVLEGTESKIIANPEGNRTTPSVVSFKNGEIIVGDAAKRQAVTNPETVISIKSKMGTSEKVSANGKEYTPQEISAMILQYLKGYAEDYLGEKVEKAVITVPAYFNDAQRQATKDAGKIAGLEVERIVNEPTAAALAYGMDKTDKDEKILVFDLGGGTFDVSILELGDGVFDVLATAGDNKLGGDDFDQKIIDFLVAEFKKENGIDLSQDKMALQRLKDAAEKAKKDLSGVTQTQISLPFITAGSAGPLHLEMSLSRAKFDDLTRDLVERTKTPVRQALSDAGLSLSEIDEVILVGGSTRIPAVVEAVKAETGKEPNKSVNPDEVVAMGAAIQGGVITGDVKDVVLLDVTPLSLGIETMGGVFTKLIDRNTTIPTSKSQVFSTAADNQPAVDIHVLQGERPMAADNKTLGRFQLTDIPAAPRGIPQIEVTFDIDKNGIVSVKAKDLGTQKEQHIVIKSNDGLSEEEIDRMMKDAEANAEADAKRKEEVDLKNEVDQAIFATEKTIKETEGKGFDTERDAAQSALDELKAAQESGNLDDMKAKLEALNEKAQALAVKMYEQAAAAQQAAQGAEGAQANDSANNDDVVDGEFTEK |
| 1897 | sp|Q27968|DNJC3\_BOVIN | MVAPGSVTSRLGSVFPFLLVLVDLQYEGAECGVNADVEKHLELGKKLLAAGQLADALSQFHAAVDGDPDNYIAYYRRATVFLAMGKSKAALPDLTKVIELKMDFTAARLQRGHLLLKQGKLDEAEDDFKKVLKSNPSENEEKEAQSQLVKSDEMQRLRSQALDAFESSDFTAAITFLDKILEVCVWDAELRELRAECFIKEGEPRKAISDLKASSKLKNDNTEAFYKISTLYYELGDHELSLSEVRECLKLDQDHKRCFAHYKQVKKLNKLIESAEELIKEGRYTDAISKYESVMKTEPGVHEYTIRSKERICHCFSKDEKPVEAIRVCSEVLQVEPDNVNALKDRAEAYLIEEMYDEAIQDYETAQEHNENDQQIREGLEKAQRLLKQSQRRDYYKILGVKRNAKKQEIIKAYRKLALQWHPDNFQNEEEKKKAEKKFIDIAAAKEVLSDPEMRKKFDDGEDPLDAESQQGGGGNPFHRSWNSWQGFSPFSSGGPFRFKFHFN |
| 1898 | sp|P0DB71|DNAK\_STRPQ | MSKIIGIDLGTTNSAVAVLEGTESKIIANPEGNRTTPSVVSFKNGEIIVGDAAKRQAVTNPDTVISIKSKMGTSEKVSANGKEYTPQEISAMILQYLKGYAEDYLGEKVEKAVITVPAYFNDAQRQATKDAGKIAGLEVERIVNEPTAAALAYGMDKTDKDEKILVFDLGGGTFDVSILELGDGVFDVLATAGDNKLGGDDFDQKIIDFLVAEFKKENGIDLSQDKMALQRLKDAAEKAKKDLSGVTQTQISLPFITAGSAGPLHLEMSLSRAKFDDLTRDLVERTKTPVRQALSDAGLSLSEIDEVILVGGSTRIPAVVEAVKAETGKEPNKSVNPDEVVAMGAAIQGGVITGDVKDVVLLDVTPLSLGIETMGGVFTKLIDRNTTIPTSKSQVFSTAADNQPAVDIHVLQGERPMAADNKTLGRFQLTDIPAAPRGIPQIEVTFDIDKNGIVSVKAKDLGTQKEQHIVIKSNDGLSEEEIDRMMKDAEANAEADAKRKEEVDLKNEVDQAIFATEKTIKETEGKGFDTERDAAQSALDELKAAQESGNLDDMKAKLEALNEKAQALAVKMYEQAAAAQQAAQGTEGAQANDSANNDDVVDGEFTEK |
| 1899 | sp|Q8KEP3|DNAK\_CHLTE | MGKIIGIDLGTTNSCVAVMQGTQPTVIENSEGSRTTPSMVAFTKTGERLVGQAAKRQAVTNPKNTIFSIKRFMGRKYDEVPNEKKLASYDVVNEGGYAKVKIGDKTYSPQEISAMILQKMKQTAEDFLGEKVTEAVITVPAYFNDAQRQATKDAGKIAGLEVKRIINEPTAAALAYGLDKKKENEKVAVFDLGGGTFDISILELGGGVFEVKSTDGDTHLGGDDFDQVIINYLADEFKKQEGIDLRKDAIALQRLKEAAEKAKIELSSRTDTEINLPFITATQEGPKHLVINLTRAKFEAMSAALFDKLFEPCRRAIKNSKFDIKEIDEVVLVGGSTRIPKVQALVKEFFGKEPNKSVNPDEVVAIGAAIQGGVLQGDVTDVLLLDVTPLSLGIETLGGVMTKLIEANTTIPTRKQEIFSTAADNQTSVEVHVLQGERPMASDNKTLGRFHLSDIPPAPRGVPQIEVTFDIDANGILNVSAKDKATGKEQSIKIEASGKLTEAEIEKMKEDAKAHAAEDQKRKEEIELKNSADSLIFSTEKQLTELGDKLPADKKAAIESALEKLKEAHKSGRVDAIKPAMDELSKVWSDAASNLYGQPGAEPQPETNGHAGGSKGGDGAVNAEYEVIDGDDK |
| 1900 | sp|P64407|DNAK\_STAAM | MSKIIGIDLGTTNSCVTVLEGDEPKVIQNPEGSRTTPSVVAFKNGETQVGEVAKRQAITNPNTVQSIKRHMGTDYKVDIEGKSYTPQEISAMILQNLKNTAESYLGEKVDKAVITVPAYFNDAERQATKDAGKIAGLEVERIINEPTAAALAYGLDKTDKDEKVLVFDLGGGTFDVSILELGDGVFEVLSTAGDNKLGGDDFDQVIIDYLVAEFKKENGVDLSQDKMALQRLKDAAEKAKKDLSGVSQTQISLPFISAGENGPLHLEVNLTRSKFEELSDSLIRRTMEPTRQAMKDAGLTNSDIDEVILVGGSTRIPAVQEAVKKEIGKEPNKGVNPDEVVAMGAAIQGGVITGDVKDVVLLDVTPLSLGIEILGGRMNTLIERNTTIPTSKSQIYSTAVDNQPSVDVHVLQGERPMAADNKTLGRFQLTDIPPAERGKPQIEVTFDIDKNGIVNVTAKDLGTNKEQRITIQSSSSLSDEEIDRMVKDAEVNAEADKKRREEVDLRNEADSLVFQVEKTLTDLGENIGEEDKKSAEEKKDALKTALEGQDIEDIKSKKEELEKVIQELSAKVYEQAAQQQQQAQGANAGQNNDSTVEDAEFKEVKDDDKK |
| 1901 | sp|O86103|DNAK\_AQUPY | MAGKGKIIGIDLGNETNSVVAVMMGDEAVVIQNQEGSRLTPSVVSWTKEKEVLVGDPAKRRAILDPENTVYESKRFIGRKFEEVKEEAKRVSYKVVPDEKGDAAFDIPNAGKLVRPEEVGAHVLRKLKEAAEAFLGEPVKKAVITVPAYFNERQRQATKDAGKIAGLEVVRILNEPTRAAMAYGLHKKENVRILVYDFGGGTFDVSILEGGDGVIEVKATAGDTHLGGANIDERIMEWLIEEFKKEHGIDLRQDRTALQRLKEAAEQAKKELSFKMETEINLPFITIDPNTNQPLHLQKKLTRARLEEMINDLIDRTIDIVKQALEDANVKPSDIDEVVLVGGSTRIPLVQQKIKEFFGKEPHKGLNPDEVVAMGAAIQAGVLAGEVKEIVLVDVTPLELGVETYGGVMTVLIPRNTPIPVKKSKVFTTAHDYQTEVEIHVLHGERPLAKDNKSLAKFYLTGIPPAPRGVPKIEVCFDIDADGILHVTAKDLGTGKEQSVRVEISSGLTPEEIERIIKEAEETREEDRKKKELIEAKNQLDHLVYQLEKTLKEAGDKVPADVKQEAEKVIEEAKKTIETATDINEAKELQKEFSRYPQSSEQPFT |
| 1902 | sp|Q492C7|GRPE\_BLOPB | MIDNNVKNNIDESTLQNEKIEKEELLESVSTVDNVIDPKNDQIIKLKIQLAQLQEHERNTVLRLTAEIENIRRRNTQEIEKIHKFGLERFIFELLPVIDNLERTMSISDNSNTLLSAIIEGIELTLKSFLDTVHKFGLKSIYEINVPFNPEIHQAISIIESEDHKPNQVLTMIQKGYILNGRLIRPAMVTVSQSK |
| 1903 | sp|Q96266|GSTF8\_ARATH | MGAIQARLPLFLSPPSIKHHTFLHSSSSNSNFKIRSNKSSSSSSSSIIMASIKVHGVPMSTATMRVLATLYEKDLQFELIPVDMRAGAHKQEAHLALNPFGQIPALEDGDLTLFESRAITQYLAEEYSEKGEKLISQDCKKVKATTNVWLQVEGQQFDPNASKLAFERVFKGMFGMTTDPAAVQELEGKLQKVLDVYEARLAKSEFLAGDSFTLADLHHLPAIHYLLGTDSKVLFDSRPKVSEWIKKISARPAWAKVIDLQKQ |
| 1904 | sp|A4G8D3|GRPE\_HERAR | MQDQDKYAEQAASMEEPASADAPAIVPTLEEQLAASQLQVQELQDSFLRAKAENENFRRRAQEDVTRAHKFAIEGFAEALVPVKDSLEMALQVDTPSIASLKEGVEMTLKQLSAAFEKNRLLEIKPQQGDKLDPMKHQAISVVPADQEANTIVSTLQKGYLIADRLLRPALVTVAQEK |
| 1905 | sp|Q31XD2|GRPE\_SHIBS | MSSKEQKTPEGQAPEEIIMDQHEEIEAVEPEASAEQVDPRDEKIANLEAQLAEAQTRERDGILRVKAEMENLRRRTELDIEKAHKFALEKFINELLPVIDSLDRALEVADKANPDMSAMVEGIELTLKSMLDVVRKFGVEVIAETNVPLDPNVHQAIAMVESDDVAPGNVLGIMQKGYTLNGRTIRAAMVTVAKAKA |
| 1906 | sp|A7HZ43|GRPE\_PARL1 | MSDEKKPEAETSESLQKREEKLAETLASEPAAQGEAEDAAAAGPDVAALEAEISDLRNRLLRAAADMENNRKRAEREKQDAQRYAAANFARDMLEVSDNLRRAIATLKEDERAEAAESVKAMIEGVEMTDRQLVTIFERHGIREITPQPGERFDPNLHEAMFEVPGTDQPAGTVVHVLGAGYMIGDRLLRAARVGVAKADDGAAKGGKVDTIA |
| 1907 | sp|A2BNE2|GRPE\_PROMS | MIENQSDNIDNKENDLSDQDNALENVSSAQELTTENNELSSQKTEEINTEELKNSISNNDARLEQLEKEHETLKNQYVRISADFDNFRKRQSRDQDDLKIQLVSKTLTAILPIVDNFERARQQLKPESEEAQSLHRSYQGLYKQLVEVLKQQGVSPMRVVGQQFDPSLHEAVLREPSEKFEEDFIIEELQRGYHLEGKVLRHALVKVSMGPGKQNSQEEVEKDKVEGDIDSEENTSEDV |
| 1908 | sp|A9B9L4|GRPE\_PROM4 | MNDEASTPIQEDLKEESAVDLAQEAKPTSDEPSLSNVAEGSQEAGAETDVTSSDAKDSSSQALDNEARLEQLEREHETLNSQYMRIAADFDNFRKRQSRDQDDLRLQLQCNTLSSILPVVDNFDRARQQLNPEGEEAQALHKSYQGLYKQLVDVLKQLGVAPMRVVGQTFDPSLHEAVLREPSDELAEDIIVEELQRGYHLNGRVLRHALVKVSMGPGPKDDGEETITEQSLEGDNTTDQQSSEKSD |
| 1909 | sp|Q48E61|GRPE\_PSE14 | MADEQNLDAQAQDQAAEAGAGEELTTRVQVLEEQLAAAQDQSLRVAADLQNVRRRAEQDVEKAHKFALEKFAGDLLPIIDSLERGLDLSNPDDESIRPMREGIELTLKMFQDTLKRYQLEAIDPYGQPFSADQHQAMAMQESADVEPNTVLKVFQKGYQLNGRLLRPAMVVVSKAPSPATPSINEQA |
| 1910 | sp|P0CW10|GRPE\_METMZ | MKKSRKKENMDSKERNQKEAERSEARNSESPAEKAGETKVSPENEPSSPEAEKNPEEACREENEILKDQLFRLAADFDNFRKRTARQMEENRKSVLEQVLLDFVEVTDNFDRAIKSARTAEDMGPIVSGIEQLSKQFFSILEKYGLERVKCEKAGEFDPHRHEAIHHIETSEVPDNTIVEIYKEGYALNEKVVRPALVSVARSPEEAEK |
| 1911 | sp|Q06398|GSTU6\_ORYSJ | MAGSGELKLLGVWSSPYAIRVRVVLNLKSLPYEYVEENLGDKSDLLLASNPVHKSVPVLLHAGRPVNESQVIVQYIDEVWPGGAGGRPSVMPSDPYERAVARFWAAYVDDKVRPAWLAILFGSKTEEERAAAVAQAVAALETLEGAFGECSKGKPFFGGDGVGFVDVVLGGYLGWFTAIDKLIGRRLIDPARTPALAAWEERFRATDAAKGVVPDDADKLLEFRQTLLRWSASKAK |
| 1912 | sp|A8A1G6|HCHA\_ECOHS | MTVQTSKNPQVDIAEDNAFFPSEYSLSQYTSPVSDLDGVDYPKPYRGKHKILVIAADERYLPTDNGKLFSTGNHPIETLLPLYHLHAAGFEFEVATISGLMTKFEYWAMPHKDEKVMPFFEQHKSLFRNPKKLADVVASLNADSEYAAIFVPGGHGALIGLPESQDVAAALQWAIKNDRFVISLCHGPAAFLALRHGDNPLNGYSICAFPDAADKQTPEIGYMPGHLTWYFGEELKKMGMNIINDDITGRVHKDRKVLTGDSPFAANALGKLAAQEMLAAYAG |
| 1913 | sp|B7IEU8|HFQ\_THEAB | MAEKFNLQDRFLNILRTNKIPVKVYLVNGFQTKGIIRSFDNFTMLLENGSQQNLIYKHAVSTIMPESFVKLTKQQNEESENEEK |
| 1914 | sp|A3NVW5|HFQ\_BURP0 | MSNKGQLLQDPFLNALRKEHVPVSIYLVNGIKLQGNIESFDQYVVLLRNTVTQMVYKHAISTVVPARPVNFHPDAEAAS |
| 1915 | sp|Q63US8|HFQ\_BURPS | MSNKGQLLQDPFLNALRKEHVPVSIYLVNGIKLQGNIESFDQYVVLLRNTVTQMVYKHAISTVVPARPVNFHPDAEAAS |
| 1916 | sp|Q7VN44|HFQ\_HAEDU | MAKGQSLQDPYLNALRRERIPVSIYLVNGIKLQGQIESFDQFIILLKNTVSQMVYKHAISTVVPARSISHNNNGSSQAQAPQQAVQTTQPVEAIVATDKME |
| 1917 | sp|Q0C0N8|HFQ\_HYPNA | MSADKKQNLQDTFLNAVRKSRTPLTVFLVNGVKLQGVVTWFDNFCILLRGDGRPPQLVYKHAISTIAPSAPVQLFDEEMGGD |
| 1918 | sp|Q2KYA0|HFQ\_BORA1 | MSNKGQTLQDPFLNTLRKEHVPVSIYLVNGIKLQGQIESFDQYVVLLRNTVTQMVYKHAISTVVPARAVSFQVEVPAE |
| 1919 | sp|A7Z501|HFQ\_BACVZ | MKPINIQDQFLNQIRKDNTFVTVFLLNGFQLRGQVKGFDNFTVLLETEGKQQLIYKHAISTFAPQKNVQLELE |
| 1920 | sp|Q5M1U0|HRCA\_STRT1 | MITQRQNAILNLIVEMFTRTHEPVCSKALQDSIDSSSATIRNDMAKLEKMGYLEKAHISSGRMPSRAGFQYFVANSLNLDTIDEQDVYQVVKAFDFEAFKLEDILDAAAKLLAEMTGCTAVIQDVEPTKQRLTGFEIVQLSNHDALAVLTLDESKPVTVQFAIPKNFLSSDLEIFHKLVQGRFLGNTVLDIHYRLRTETPQIVQKYFKITDNVLDLFDYIFSHLFKELIFIEGKVASLAYADLKTYQFLDNPQHVALALRSAISDDEVTKISVAESTEEALENVTVMSHKFLIPYRGTALMHVIGPIEMDYRRMVSLVNVISRVLVMKLTDYYRYLNSNHYEVFLSRNVLKNIERGECLD |
| 1921 | sp|Q0HED0|HSLU\_SHESM | MSEMTPREIVHELDAHIIGQKKAKRSVAVALRNRWRRMQLDADFRQEVTPKNILMIGPTGVGKTEIARRLAKLANAPFIKVEATKFTEVGYVGKEVEQIIRDLTDIAIKLTREQQMGKCRQRAEEHAEERILDALLPKPKNDWDNTDSDTSSNTRQIFRKKLREGQLDDKEIDIDVAQPQVGIEIMSPPGMEEMTNQLQSLFKNMGQAPAKRRKMKIKEAFKLLIEEEAAKLVNQEDLKEQAIELVEQHGIVFLDEIDKICKRGETSGPDVSREGVQRDLLPLVEGCTVTTKHGMVKTDHILFIASGAFQMAKPSDLIPELQGRLPIRVELDALSADDFKRILTEPHASLTEQYIALMATEGVTIEFAESGIESIAKAAWQVNERTENIGARRLHTVMEKLMEDISYEASDKSGSSFVIDADYVSAHLDNLVQDEDLSRFIL |
| 1922 | sp|Q5N3M2|HRCA\_SYNP6 | MLVSRLTARQQTILSATVRHYVRTAEPVGSKALAEQYGLSVSAATIRNAMGVLERAGLLYQPHTSAGRVPSEGGYRLYVDQLMEPDRALQRQTEQQLSQQLPDRRQSLEALLRGAAQILASLSGYLSLITFPLGLEFQVRHLQLVAIAPHQVLLIVVNDSYETQSALLTLPELDRDLEADQLDRQLLLLSNFLNQELQGRSLQALANLDWPVLGSELQSLAGILQQGLQDLEKRWQPTPATSLLVCGLADLLRQPEFNELQQVQALLELLEGEQTQLLPLMLADPAADQVRVRIGSELPLAPIRSCSLVSAFYCREQQPVGSVSLIGPTRMLYENAVAAVEATASYLSEAIAS |
| 1923 | sp|Q1J576|HRCA\_STRPF | MITQRQNDILNLIVELFTQTHEPVGSKALQRTIDSSSATIRNDMAKLEKLGLLEKAHTSSGRMPSPAGFKYFVEHSLRLDSIDEQDIYHVIKTFDFEAFKLEDMLQKASHILAEMTGYTSVILDVEPARQRLTGFDVVQLSNHDALAVMTLDESKPVTVQFAIPRNFLTRDLIAFKAIVEERLLDSSVIDIHYKLRTEIPQIVQKYFVTTDNVLQLFDYVFSELFLETVFVAGKVNSLTYSDLSTYQFLDNEQQVAISLRQSLKEGEMASVQVADSQEAALADVSVLTHKFLIPYRGFGLLSLIGPIDMDYRRSVSLVNIIGKVLAAKLGDYYRYLNSNHYEVH |
| 1924 | sp|Q4AAT9|HRCA\_MYCHJ | MPKLDSKKEKYLKQIVENFIKTGESIGSLNLKQSYGIKKSPSYLRAIMNQLEKEGFLEKSHSSSGRIPTLQGFQYYAEFLSFDENENLANKLKDLFARRRINIENTISEAVKLISESVGTTLIATTNNENERLMSINLTQISQNEGIIVVVSSSGNVENKKITFSEQIPRQDVKIAIRLFQERLINTPLLEISSKLAILKQELEKQIKHSDELLHHFMEKIFNFQVQNKSNIYNKNSLILDKEISRAKLVDLLYIIEKKSIWEMLEDRTTKDDDTLKISIKSPEVSFISKKFEKFLPIKEISMVGAAKKINYSAARTGIKLLEDFLSNKSKIRKG |
| 1925 | sp|Q65H52|HRCA\_BACLD | MLTNRQLLILQVIVNDFIRSAQPVGSRTLSKKEDITFSSATIRNEMADLEELGFIEKTHSSSGRIPSEKGYRYYVDHLLSPGKLSKTDLNIIHSIFKEKIFELEKAVQKSAQVLSDLTNYTSIVLGPRLSENHLKQIQIVPIQPKKAVAILVTNTGHVENKTINFPAEVDLSDLEKLVNILNERLRGVPISELKDRIFKEVVIFLKSHIQNYDTILHALGATLDSSVQTDRLFFGGKINMLNQPEFHDIDRVKSLLSLIEKEQEILRLFQSTESGITIKIGKENDYEEMENCSLITATYTVGSKQIGSIAVIGPTRMDYSRVVGLLQHVSSDLSKALTSLYDG |
| 1926 | sp|Q0SNL5|HSLV\_BORAP | MGFKGTTVIAIKKNGKTVVAADGQVTFGHTVLKSNAIKIRKLLNGKILAGFAGSTSDAITLFEKFEEKIKAKGDGLVDIKRAAVDLAKDWRSDKILHKLEAMMLVADSKNILLISGTGDVVEPEEDVVSIGSGGNYAYSAALAYMENKKLSAFEVALRSLKIAARVCIYTNSNIVLEEIENE |
| 1927 | sp|B1JW13|HRCA\_BURCC | MLDPRARTLLKTLIERYIADGQPVGSRTLSRYSGLELSPATIRNVMSDLEELGLVSSPHTSAGRVPTPRGYRLFVDTMLTVEAPIDAEAVARQVQNTLQAGEPQQRVVAAAASVLSNLSQFAGVVLTPRRSHVFKQIEFMRLSDKRILLIIVTPEGDVQNRMLATPRDYSPSQLTEASNYINAHFAGLSFDEVRRRLRDEIDQLRGDMTTLMHAAVTASTEVPDTEDTVLISGERNLLEVADLSSDMARLRKLFDVFDQKTGLLQLLDVSSHAQGVQIFIGGESTLVPIEEMSVVTAPYEVNGQIVGTLGVIGPTRMAYNRVIPIVDITARLLSLTLSQQ |
| 1928 | sp|Q8DQW9|HRCA\_STRR6 | MVTERQQDILNLIIDIFTKTHEPVGSKALQESINSSSATIRNDMAELEKQGLLEKAHTSSGRMPSVAGFQYYVKHSLDFDRLAENEVYEIVKAFDQEFFKLEDILQEAANLLTDLSGCTVVALDVEPSRQRLTAFDIVVLGQHTALAVFTLDESRTVTSQFLIPRNFLQEDLLKLKSIIQERFLGHTVLDIHYKIRTEIPQIIQRYFTTTDNVIDLFEHIFKEMFNENIVMAGKVNLLNFANLAAYQFFDQPQKVALEIREGLREDQMQNVRVADGQESCLADLAVISSKFLIPYRGVGILAIIGPVNLDYQQLINQINVVNRVLTMKLTDFYRYLSSNHYEVH |
| 1929 | sp|Q1ZXL6|HSPF\_DICDI | MTEVTYQIQDQIKQFNNFNPIQKTNYKYQYNSDNENSSLVYLIKNPKQNNFKNYNNKICNYKRSLSSSSFQGNEEKETRKKNKAQFYENDFENGFGNISSWLNNSIPYKCEDCNGNNEPPHQKLKSQDIPLFTFFEPLTFIHEINKVIHIELEIAGVDKDDVKVDLTNNILTIVAKKKSVYPLFQNMCEFKRHEKSIGVYKRVLEFNSNTVDKDTIKARYVNGILLITVNKFL |
| 1930 | sp|Q634M5|HRCA\_BACCZ | MLTERQLLILQTIIDDFIGSAQPVGSRTLAKKDAITFSSATIRNEMADLEELGFIEKTHSSSGRVPSEKGYRFYVDHLLAPQNLPKDEIVQIKDLFAERIFEAEKIAQQSAQILSELTNYTAIVLGPKLSTNKLKNVQIVPLDRQTAVAIIVTDTGHVQSKTITVPESVDLSDLEKMVNILNEKLSGVPMSELHNKIFKEIVTVLRGYVHNYDSAIKMLDGTFQVPLSEKIYFGGKANMLSQPEFHDIHKVRSLLTMIDNEAEFYDILRHKQVGIQVKIGRENSATAMEDCSLISATYSIGEEQLGTIAILGPTRMQYSRVISLLQLFTRQFTDGLKK |
| 1931 | sp|B1LL11|IBPB\_ECOSM | MRNFDLSPLMRQWIGFDKLANALQNAGESQSFPPYNIEKSDDNHYRITLALAGFRQEDLEIQLEGTRLSVKGTPEQPKEEKKWLHQGLMNQPFSLSFTLAENMEVSGATFVNGLLHIDLIRNEPEPIAAQRIAISERPALNS |
| 1932 | sp|Q57I25|IBPB\_SALCH | MRNYDLSPLLRQWIGFDKLANALQNSGESQSFPPYNIEKSDDNHYRITLALAGFRQEDLDIQLEGTRLTVKGTPEQPENEPKWLHQGLVMQPFSLSFTLAENMEVSGATFTNGLLHIDLTRNEPETIAPQRIAINERSALNS |
| 1933 | sp|P0C057|IBPA\_SHIFL | MRNFDLSPLYRSAIGFDRLFNHLENNQSQSNGGYPPYNVELVDENHYRIAIAVAGFAESELEITAQDNLLVVKGAHADEQKERTYLYQGIAERNFERKFQLAENIHVRGANLVNGLLYIDLERVIPEAKKPRRIEIN |
| 1934 | sp|A0A0H3GEZ8|HPF\_LISM4 | MLKYNIRGENIEVTEPIRDYVEKKIDKLERYFTETPDANVHVNLKVYSDKNAKVEVTIPLPNLVLRAEETSGDLYASIDLIVDKLERQIRKHKTKVNRKFRDKGAERDYFAYSDVNGSTPPEENEGDFDLEIVRTKQFSLKPMDSEEAVLQMNLLGHSFYVYTDAETNGTNIVYSRKDGKYGLIETN |
| 1935 | sp|P0A9W7|IBAG\_ECOL6 | MENNEIQSVLMNALSLQEVHVSGDGSHFQVIAVGELFDGMSRVKKQQTVYGPLMEYIADNRIHAVSIKAYTPAEWARDRKLNGF |
| 1936 | sp|Q9EUE4|IRAM\_ECOLX | MNWIVIDTVIQPACDISFSAIWCNIKLILWYQSDIFLPPGCIFTPTRTGVILNNKELPVTIYNVTPFNKNVWNLIKSSQECPANTGNITDKCFNHRCILEICPYGRK |
| 1937 | sp|B5Z3R6|IRAD\_ECO5E | MMRQSLQAVLPEISGNKTSLLRKSVCSDLLTLFNSPHSTLPSLLVSGMPEWQVHNPSDKHLQSWYCRQLRSALLFHEPRIAALQVNLKEAYCHTLAISLEIMLYHDDEPLTFDLVWDNGGWRSATLENVS |
| 1938 | sp|Q5B912|IPYR\_EMENI | MSYTVRKIGQPYTLEHRVYIEKDGQPVSPFHDIPLYANAEKTVLNMIVEIPRWTNAKQEISKEEFLNPIKQDTKKGKLRFVRNCFPHKGYLWNYGAFPQTWEDPNVVHPETKAKGDNDPLDVCEIGELVGYPGQVKQVKVLGVMALLDEEETDWKVIVIDVNDPLAPKLNDIEDVERHLPGLLRATNEWFRIYKIPDGKPENQFAFSGEAKNKKYAEEVIHECADAWEKLVSGKSDRGDISLANSTLGNSDSVDSSKLASIPRGENLPPAPIDGTIDKWFFISGAAV |
| 1939 | sp|Q9LW12|LEA29\_ARATH | MASNQQSYKAGETRGKAQEKTGQAMGTMRDKAEEGRDKTSQTAQTAQQKAHETAQSAKDKTSQTAQAAQQKAHETAQSAKEKTSQTAQTAQQKAHETTQAAKEKTSQAGDKAREAKDKAGSYLSETGEAIKNKAQDAAQYTKETAQGAAQYTKETAEAGRDKTGGFLSQTGEHVKQMAMGAADAVKHTFGMATEEEDKEHYPGSTTTTTATTRTTDPTHQTYQRK |
| 1940 | sp|Q8VY08|LCMT1\_ARATH | MAESRSNRAAVQATNDDASASKLSCVKKGYMKDDYVHLFVKRPVRRSPIINRGYFSRWAAFRKLMSQFLLSGTSSKKQILSLGAGFDTTYFQLLDEGNGPNLYVELDFKEVTSKKAAVIQNSSQLRDKLGANASISIDEGQVLSDHYKLLPVDLRDIPKLRDVISFADMDLSLPTFIIAECVLIYLDPDSSRAIVNWSSKTFSTAVFFLYEQIHPDDAFGHQMIRNLESRGCALLSIDASPTLLAKERLFLDNGWQRAVAWDMLKVYGSFVDTQEKRRIERLELFDEFEEWHMMQEHYCVTYAVNDAMGIFGDFGFTREGGGERMSSSASSP |
| 1941 | sp|Q1B3X8|MPRA\_MYCSS | MPVRILVVDDDRAVRESLRRSLSFNGYSVELAQDGVEALDLIANNRPDAVVLDVMMPRLDGLEVCRQLRSTGDDLPILVLTARDSVSERVAGLDAGADDYLPKPFALEELLARMRALLRRTSPDEGPDSPALTFLDLTLDPVTREVTRGSRQISLTRTEFALLEMLIANPRRVLTRSRILEEVWGFDFPTSGNALEVYIGYLRRKTEASGEPRLIHTVRGVGYVLRETPP |
| 1942 | sp|Q9FY93|NAC83\_ARATH | MDNVKLVKNGVLRLPPGFRFHPTDEELVVQYLKRKVCSSPLPASIIPEFDVCRADPWDLPGNLEKERYFFSTREAKYPNGNRSNRATGSGYWKATGIDKRVVTSRGNQIVGLKKTLVFYKGKPPHGSRTDWIMHEYRLSSSPPSSMGPTQNWVLCRIFLKKRAGNKNDDDDGDSRNLRHNNNNNSSDQIEIITTDQTDDKTKPIFFDFMRKERTTDLNLLPSSPSSDHASSGVTTEIFSSSDEETSSCNSFR |
| 1943 | sp|P14170|OSMO\_TOBAC | MGNLRSSFVFFLLALVTYTYAATIEVRNNCPYTVWAASTPIGGGRRLDRGQTWVINAPRGTKMARVWGRTNCNFNAAGRGTCQTGDCGGVLQCTGWGKPPNTLAEYALDQFSGLDFWDISLVDGFNIPMTFAPTNPSGGKCHAIHCTANINGECPRELRVPGGCNNPCTTFGGQQYCCTQGPCGPTFFSKFFKQRCPDAYSYPQDDPTSTFTCPGGSTNYRVIFCPNGQAHPNFPLEMPGSDEVAK |
| 1944 | sp|Q4MTG0|ODPA\_BACCE | MGTKTKKTLFNVDEQMKAIAAQFETLQILNEKGEVVNEAAMPELSDDQLKELMRRMVYTRVLDQRSISLNRQGRLGFYAPTAGQEASQLASHFALEAEDFILPGYRDVPQLVWHGLPLYQAFLFSRGHFMGNQMPENVNALAPQIIIGAQIIQTAGVALGMKLRGKKSVAITYTGDGGASQGDFYEGMNFAGAFKAPAIFVVQNNRYAISTPVEKQSAAKTVAQKAVAAGIYGIQVDGMDPLAVYAATAFARERAVNGEGPTLIETLTFRYGPHTMAGDDPTRYRTKDIENEWEQKDPIVRFRAFLENKGLWSQEVEEKVIEEAKEDIKQAIAKADQAPKQKVTDLMEIMYEKMPYNLAEQYEIYKEKESK |
| 1945 | sp|P28516|PDC1\_MAIZE | METLLAGNPANGVAKPTCNGVGALPVANSHAIIATPAAAAATLAPAGATLGRHLARRLVQIGASDVFAVPGDFNLTLLDYLIAEPGLTLVGCCNELNAGYAADGYARSRGVGACAVTFTVGGLSVLNAIAGAYSENLPVVCIVGGPNSNDYGTNRILHHTIGLPDFSQELRCFQTITCYQAIINNLDDAHEQIDTAIATALRESKPVYISVSCNLAGLSHPTFSRDPVPMFISPRLSNKANLEYAVEAAADFLNKAVKPVMVGGPKIRVAKAREAFAAVADASGYPFAVMPAAKGLVPEHHPRFIGTYWGAVSTTFCAEIVESADAYLFAGPIFNDYSSVGYSLLLKREKAVIVQPDRMVVGDGPAFGCILMPEFLRALAKRLRRNTTAYDNYRRIFVPDREPPNGKPNEPLRVNVLFKHIKGMLSGDSAVVAETGDSWFNCQKLRLPEGCGYEFQMQYGSIGWSVGATLGYAQAAKDKRVIACIGDGSFQVTAQDVSTMLRCGQKSIIFLINNGGYTIEVEIHDGPYNVIKNWDYTGLVNAIHNSEGNCWTMKVRTEEQLKEAIATVTGAKKDCLCFIEVIVHKDDTSKELLEWGSRVSAANSRPPNPQ |
| 1946 | sp|Q02256|PVH1\_YEAST | MAGNANSVDEEVTRILGGIYLGGIRPIIDHRPLGAEFNITHILSVIKFQVIPEYLIRKGYTLKNIPIDDDDVTDVLQYFDETNRFIDQCLFPNEVEYSPRLVDFKKKPQRGAVFAHCQAGLSRSVTFIVAYLMYRYGLSLSMAMHAVKRKKPSVEPNENFMEQLHLFEKMGGDFVDFDNPAYKQWKLKQSIKLDPSGSELVSNSGMFKDSESSQDLDKLTEAEKSKVTAVRCKKCRTKLALSTSFIAHDPPSKESSEGHFIKRAANSHRIIDIQESQANCSHFFIEPLKWMQPELQGKQELEGKFSCPGCSSKVGGYNWKGSRCSCGKWVIPAIHLQTSKVDQFPLQSTALPNMVNFESEKVNR |
| 1947 | sp|Q9ZD04|RADA\_RICPR | MTRDKKYYICSNCANISNKWSGQCFDCGVWGSIVEEIINTNKSIIKGSKQTFDKLSCNVSEQLRIPTPICELNRVLGGGLVLGSAILIGGEPGIGKSTLLLQLTASNFESEMRCLYITGEESLDQIKLRAIRLNITNYNTAILAATNLEDIIASIDDNNNNIDLVVIDSIQTITTKELSSPPGTVSQIRTCANELVNYSKQNNIIILLSCHVTKDGQIAGPKILEHLVDTVLYFEGDHNNHFRILRSYKNRFGGVGEIGVFEMSNSGIIEVTNHSELFLIKREHNVVGTSIFAGIEGSRPLLMEVQALIVPSNMVTPRRSAVGWDANRLSMILAVLSSRIGLNLANYEIYLSIAGGLKIADPASDLAVAASLISAATSIPLPEHSVFFGEISLSGEIRKTAKAETRIKEAVKLGFNKVICSKLENLTYDFIFPCAHLQELKEIIK |
| 1948 | sp|P42374|DNAK\_RHIME | MAKVIGIDLGTTNSCVSVMDGKDAKVIENAEGARTTPSMVAFTEDGERLVGQPAKRQAVTNPENTLFAIKRLIGRTFEDPTTQKDKGMVPYKIVKADNGDAWVEAHGTSYSPSQISAMILQKMKETAESYLGEKVEKAVITVPAYFNDAQRQATKDAGKIAGLDVLRIINEPTAAALAYGLDKKEGKTIAVYDLGGGTFDISVLEIGDGVFEVKSTNGDTFLGGEDFDMRLVEYLASEFKKEQGIDLKNDKLALQRLKEAAEKAKIELSSSQQTEINLPFITADASGPKHLTMKLSRAKFESLVEDLIQKTIAPCKAALKDAGVSAAEIDEVVLVGGMTRMPKVQETVKQLFGKEPHKGVNPDEVVAMGAAIQAGVLQGDVKDVLLLDVTPLSLGIETLGGVFTRLIERNTTIPTKKSQVFSTADDNQSAVTIRVSQGEREMAADNKLLGQFDLVGIPPAPRGVPQIEVTFDIDANGIVQVSAKDKGTGKEHQIRIQASGGLSDAEIEKMVKDAEANAEADKKRREGVEAKNQAESLVHSSEKSLQEHGDKVSETDRKAIEDAIAALKSAVEVSEPDAEDIKAKTNTLMEVSMKLGQAIYEAQQTDAAHADAAADAKRSGDDVVDADYEEVKDEDDRKRSA |
| 1949 | sp|Q5M6D0|DNAJ\_STRT2 | MNNTEYYDRLGLSKDASQDEIKRAYRKLSKKYHPDINKEPGAEEKYKEILEAYETLSDAQKRAAYDQYGPDGANGFGGQGSFGGFDGGAGFGGFEDIFSSFFGGGATRNPNAPRQGDDLQYRVNLSFEEAVFGAEKEIHYNREVTCKTCSGSGAKPGTSPVTCGRCHGHGVINVDTQTPLGMMRRQVTCDVCHGTGQEIKDPCQTCHGTGREKQSHTVSVKIPAGVETGQQIRLAGQGEAGFNGGPYGDLFVVINVNPSDKFTRDGSTIYYTLNISFVQAALGDTVEVPTVHGNVEMVIPAGTQTGKTFRLKGKGAPRLRGGSQGDQLVTVKIVTPTKLNDAQKEALLAFAKASGDEKVAPQKKGFFNKVKDVLEDL |
| 1950 | sp|Q8FXX2|DNAK\_BRUSU | MAKVIGIDLGTTNSCVAVMDGKNAKVIENAEGARTTPSIIAFTDGDERLAGQPAKRQAVTNPEGTLFAVKRLIGRRYDDPMVTKDKDLVPYKIVKGDNGDAWVEVHGKKYSPSQISAMILQKMKETAESYLGETVTQAVITVPAYFNDAQRQATKDAGKIAGLEVLRIINEPTAAALAYGLDKSEGKTIAVYDLGGGTFDVSVLEIGDGVFEVKSTNGDTFLGGEDFDIRLVEYLVAEFKKESGIDLKNDKLALQRLKEAAEKAKIELSSSQQTEINLPFITADQTGPKHLAIKLSRAKFESLVDDLVQRTVEPCKAALKDAGLKAGEIDEVVLVGGMTRMPKIQEVVKAFFGKEPHKGVNPDEVVAMGAAIQGGVLQGDVKDVLLLDVTPLSLGIETLGGVFTRLIERNTTIPTKKSQTFSTAEDNQSAVTIRVFQGEREMAADNKLLGQFDLVGIPPAPRGVPQIEVTFDIDANGIVNVSAKDKGTGKEHQIRIQASGGLTDADIEKMVKDAEANAEADKKRRESVEAKNQAESLVHSTEKSLAEYGDKVSADDKKAIEDAIAALKTSLEGEDAEDIKAKTQALAEVSMKLGQAMYEAAQAAEGAGAEGGEQASSSKDDVVDADYEEIDDNKKSS |
| 1951 | sp|B5RF08|DNAK\_SALG2 | MGKIIGIDLGTTNSCVAIMDGTQARVLENAEGDRTTPSIIAYTQDGETLVGQPAKRQAVTNPQNTLFAIKRLIGRRFQDEEVQRDVSIMPYKIIGADNGDAWLDVKGQKMAPPQISAEVLKKMKKTAEDYLGEPVTEAVITVPAYFNDAQRQATKDAGRIAGLEVKRIINEPTAAALAYGLDKEVGNRTIAVYDLGGGTFDISIIEIDEVDGEKTFEVLATNGDTHLGGEDFDTRLINYLVDEFKKDQGIDLRNDPLAMQRLKEAAEKAKIELSSAQQTDVNLPYITADATGPKHMNIKVTRAKLESLVEDLVNRSIEPLKVALQDAGLSVSDINDVILVGGQTRMPMVQKKVAEFFGKEPRKDVNPDEAVAIGAAVQGGVLTGDVKDVLLLDVTPLSLGIETMGGVMTPLITKNTTIPTKHSQVFSTAEDNQSAVTIHVLQGERKRASDNKSLGQFNLDGINPAPRGMPQIEVTFDIDADGILHVSAKDKNSGKEQKITIKASSGLNEEEIQKMVRDAEANAESDRKFEELVQTRNQGDHLLHSTRKQVEEAGDKLPADDKTAIESALNALETALKGEDKAAIEAKMQELAQVSQKLMEIAQQQHAQQQAGSADASANNAKDDDVVDAEFEEVKDKK |
| 1952 | sp|Q89YW6|DNAK\_BACTN | MGKIIGIDLGTTNSCVAVFEGNEPVVIANSEGKRTTPSVVAFVDGGERKVGDPAKRQAITNPTRTIFSIKRFMGENWDQVQKEVTRVPYKVVKGDNNTPRVDIDGRLYTPQEISAMILQKMKKTAEDYLGQEVTEAVITVPAYFSDSQRQATKEAGQIAGLEVKRIVNEPTAAALAYGLDKAHKDMKIAVFDLGGGTFDISILEFGGGVFEVLSTNGDTHLGGDDFDQVIINWLVQEFKNDEGADLTQDPMALQRLKEAAEKAKIELSSSTSTEINLPYIMPVNGVPKHLVKTLTRAKFESLAHGLIQACLEPCKKAMSDAGLSNSDIDEVILVGGSSRIPAVQKLVEDFFGKTPSKGVNPDEVVAVGAAVQGAVLTDEIKGVVLLDVTPLSMGIETLGGVMTKLIDANTTIPARKSETFSTAADNQSEVTIHVLQGERPMAAQNKSIGQFNLSGIAPARRGVPQIEVTFDIDANGILKVSAKDKATGKEQAIRIEASSGLSKEEIEKMKAEAEANAEADKKEREKIDKLNQADSVIFQTENQLKELGDKLPADKKAPIEAALQKLKDAHKSQDLAAIDTAMAEINTVFQTASAEMYAQGGAQGGAQAGPDMDAGQNAGQDNSKHGDNVQDADFEEVK |
| 1953 | sp|Q5N0G0|DNAK3\_SYNP6 | MGKVIGIDLGTTNSCVAVLEGGKPIIVTNREGDRTTPSIVAVGRKGDRIVGRMAKRQAVTNAENTVYSIKRFIGRRWEDTEAERSRVTYTCVPGKDDTVNVTIRDRVCTPQEISAMVLQKLRQDAETFLGEPVTQAVITVPAYFTDAQRQATKDAGAIAGLKVLRIVNEPTAAALSYGLDKLHENSRILVFDLGGGTLDVSILQLGDSVFEVKATAGNNHLGGDDFDAVIVDWLADNFLKAESIDLRQDKMAIQRLREASEQAKIDLSTLPTTTINLPFIATATVDGAPEPKHIEVELQREQFEVLASNLVQATIEPIQQALKDSNLTIDQIDRILLVGGSSRIPAIQQAVQKFFGGKTPDLTINPDEAIALGAAIQAGVLGGEVKDVLLLDVIPLSLGLETLGGVFTKIIERNTTIPTSRTQVFTTATDGQVMVEVHVLQGERALVKDNKSLGRFQLTGIPPAPRGVPQIELAFDIDADGILNVSARDRGTGRAQGIRITSTGGLTSDEIEAMRRDAELYQEADQINLQMIELRTQFENLRYSFESTLQNNRELLTAEQQEPLEASLNALASGLESVSNEAELNQLRQQLEALKQQLYAIGAAAYRQDGSVTTIPVQPTFADLIGDNDNGSNETVAIERNDDDATVTADYEAIE |
| 1954 | sp|B8IHL3|DNAK\_METNO | MGKVIGIDLGTTNSCVAVMEGTQPKVIENAEGARTTPSIVAFTDDGERLVGQPAKRQAVTNPSRTFFAIKRLIGRTYDDPMTQKDKGLVPYAITRAGNGDAWVAADGKQFSPSQISAFTLQKMKETAESYLGQPVTQAVITVPAYFNDAQRQATKDAGKIAGLEVLRIINEPTAAALAYGLDKRKSGVIAVYDLGGGTFDVSILEIGDGVFEVKSTNGDTFLGGEDFDNRIVEYLAAEFKREQGIDLTKDKLALQRLKEAAEKAKIELSSATQTEINLPYITADASGPKHLALKLSRAKFESLVDDLIQRTIEPCRKALKDAGVSANEIDEVVLVGGMTRMPKIQDVVKTFFGKEPHKGVNPDEVVAIGAAVQAGVLQGDVKDVLLLDVTPLSLGIETLGGVFTRLIDRNTTIPTKKSQVFSTAEDNQNAVTIRVFQGEREMAADNKLLGQFDLVGIPPAPRGVPQIEVTFDIDANGIVNVTAKDKATGKEHQIRIQASGGLSETEIQRMVQEAEANAAEDKKRRELVEVKNQGESLIHATEKSVKEYGDKVSEADKAGITTAIDALRQALAGEDVETIKARTTDLMQASMKLGEAMYAASQGAGPEAGADQAQAKKDDVIDADFQEVDDKDQKKRA |
| 1955 | sp|Q57QP5|IRAM\_SALCH | MEWKVVDTVISPSTGVSFSCIHSLKNLRLTLWYQADVYMPPGSIIIPFNKGVLINDKLYPVTVYNVTRFNPVLWKSLKENSHCPGNCNPKPEACSYPFECLVSVCPFGLTRNIQIDNKKV |
| 1956 | sp|P0C7L4|IRAP\_ECOLC | MKNLIAELLFKLAQKEEESKELCAQVEALEIIVTAMLRNMAQNDQQRLIDQVEGALYEVKPDASIPDDDTELLRDYVKKLLKHPRQ |
| 1957 | sp|A2WZ60|IRO2\_ORYSI | MEQLFVDDPAFASSMSSLEADIFSGAGQLPSSPWLDLDLDDDVQDLSMAPTTANAVSSGYGSGGSGSHRKLSHNAYERDRRKQLNELYSSLRALLPDADHTKKLSIPTTVSRVLKYIPELQKQVENLERKKKELTTTSTTNCKPGVLGSQLMSEGMAPIVSATCINDMEIMVQVSLLSNVAGSVLPLSKCIKVLENEGLHFISSSTSSGFGNRTFYSIHLQRSEGTINEECPAFCERLEKVVRNKAKL |
| 1958 | sp|Q20689|KREG1\_CAEEL | MSYYGNGGYNPYGAYGNVPPPVYGTPGLAPPTVHVHTDGGHHHGHHHHHHSFLHELGHALTGHHHHHHGHHFGHHHHHHHGHH |
| 1959 | sp|A5IYF2|LON\_MYCAP | MLFDREVAKLEITDELITQTTYWKQIIDEYTKDNSNGAEIINKARIMLVYYRPAEDNRVILESELQSKPTATYADVLENVNISNLDSNMTLCQVESVEKVYDNGSQKWHYIATLKAIHKYILQDIYGDEETISSSSIDIEKLPLKYIEGMVATRFGSENNGDEMALADPSLDFNGFEEVINTLIYDRNWNDAMLLYRYIRGYSAKEIRNWTKGTSEMMPDFINDDESRLETLVRALTGFFLLPPYELFTIYSMPSALHQFEALKSNFVLMVRLIKKFINELNLGNTDKLLNIYNALTDNELFKNSMEQIKENSELEVQFNYEVERIYKWHKEYLQLGYITEDDLKLIISLIEQNQNNLSKRSSKKDTSAMKDKIDKELNKKIQSNLDKQQKEFLLREKMKAIKEQLNEADDEDGDDEYSKIVNDPVLKQMYPEWIIKAIKTERDKLKNMMSSSPDANITQTYISNLKKLPWRKVEVENLDINRAREILDKNHYGLKEVKERVIEYLSLIINHRNINKESSEKDLIKIDDHNQIDLQLFKENTKNKAQKQFNNVPILTLVGPPGTGKTSLARSIAEALDKSYVKLSLGGLHDESEIRGHRKTYVGAMPGKIIKGLQSAGVSNPLILLDEIDKMSSDIKGDPTSAMLEVLDPEQNTKFQDNYIEHEYDLSKVLFIATANYYENIPAPLLDRVEIIELNSYTINEKIKIAKEHLVEVVLAQAGLKPDQFIIDDKALEFIIKHYTAEAGVRSLKRNLDKIARKIVTKIVSGEKIDKFVIDQNNIPELLGTPKISESEKEMQPQIGSVNGLAFTSIGGTTLQIEVSWFKSKQPGIRLTGQLKEVMQESAKIALSYVRANAEKFGIKNVDFDTTEIHVHVPEGAVPKDGPSAGVTFTTALISALAKIPVSQEVAMTGEITLRGKVLEIGGLKEKSFAAFKKGIKTVFIPKNNEKNLSDIPEEVKEAINFIPVSHYEQIWEHLFKGKKSDESETESKKKKQSK |
| 1960 | sp|B4RI01|LON\_PHEZH | MNGEQSANGARTLPDDAVVVVPVSNVIFPGVVFPIVLDRPSAVAAAQQALREQHPLVLVLQQDVQAPDPGPQSLHRMGTLANVLRYVTGPDGAPHVACQGVERFEIDEWVEGFPFLVARGRRIPEPEAEGAAIEARFLHLRSQALEALQLLPQSPPGELVAAVEGASSPAALADLVAAYLDLQPPEKQQILETIDLEARLDKVSAFLAQRLEVLRLTSEIAQRTRQSLGERQRETLLREQMAAIQRELGEGEREELVELEAAIENAGMPEEVVQQARKELRRLARTPEAAAEYGMVRTYLEWLVELPWGVPEAAPIDLAEARRILDEDHFGLEKIKQRIIEHLAVRRLAPEGKAPILCFVGPPGVGKTSLGQSIARAMHRPFVRVSLGGVHDESEIRGHRRTYVGALPGNIIQAIRKAGRRDCVMMLDEIDKMSAGIHGDPSAALLEVLDPEQNVAFRDNYLAVPFDLSRVVFIATANMLDTIPGPLRDRMEVIQLSGYTAGEKRQIAERYLVRRQLEANGLTAEQVQIEPAALETLIARYTREAGVRSLEREIGRLLRHVAVRFAEGHTEPVRIGPTNLEPILGPPRVENEVAMRTSVPGVATGLAWTPVGGEILFIEATRTPGDGRLILTGQLGEVMRESAQTALSLVKSRAEALGVTPSLFKESDIHIHVPAGATPKDGPSAGVAMTMALISLLTDRTVRSDTAMTGEISLRGLVLPVGGIKEKVVAAATAGVRRVLLPARNRADERDIPEETRQTLELIWLERIEDAIEAGLDPRRGDVRQTQVRAAS |
| 1961 | sp|Q0AWF3|LON\_SYNWW | MPTEEHQTYRELPMLPLRGVLVFPYTVIHLDVGRKKSINAIEDAMLGSKEIFLATQKEAQTDEPDEEDIYEVGTVAEIRQILKMPGGTMRVLVEGLFRAEINAYLANDPYMKVRVEELRDKKIKSPELEALMRNLVGQFEQYVRMSKKIPPETVVSVVAIEEGGRLADVIASHLNLRINEKQRILELSDINKRLNYLCELLAKEMEVLELERKINIRVRKQMEKTQKEYYLREQIKAIQKELGEKDERSSEVEEFRERIKKANMPKDAEEKAFKELERLEKMPPMVAEAVVVRNYLDWILSLPWSLETRDRLDLKAAEAILDEDHYGLEKPKERILEYLAIRKLAKKMKGPILCLVGPPGVGKTSLGKSVGRSLGRKFIRMSLGGIRDEAEIRGHRRTYVGSMPGRILQGMKTAGSKNPVFLLDEIDKMTMDFRGDPASALLEVLDPEQNYIFSDHYLEIPFDLSKVMFITTANSVFNIPRPLLDRMEIIEITGYTEEDKVHIATDYLVPKQIKEHGLKESNITFSEGTLRRIIREYTREAGVRNLERQIASICRKVARQVVEDKDTFVHVASNSLNRFLGAGRYRYGVAESENQVGVATGLAWTESGGDILSIEVALLKGKGNLTLTGKLGEVMKESAQAALTYVRSKADELGINDEIRDKYDVHIHIPEGAIPKDGPSAGITLATALASAMSGLPVRSDVAMTGEITLRGRILPIGGVKEKILAAHRAGIAKVLLPVENKKDLAEIPAPVKRKIKLVLVSHMDEVLEETLLKLEAIQPGEDFPGVLLNPELVGENLNQDRVEPEANKDLC |
| 1962 | sp|P37945|LON1\_BACSU | MAEELKRSIPLLPLRGLLVYPTMVLHLDVGRDKSVQALEQAMMHDHMIFLATQQDISIDEPGEDEIFTVGTYTKIKQMLKLPNGTIRVLVEGLKRAHIVKYNEHEDYTSVDIQLIHEDDSKDTEDEALMRTLLDHFDQYIKISKKISAETYAAVTDIEEPGRMADIVASHLPLKLKDKQDILETADVKDRLNKVIDFINNEKEVLEIEKKIGQRVKRSMERTQKEYYLREQMKAIQKELGDKEGKTGEVQTLTEKIEEAGMPDHVKETALKELNRYEKIPSSSAESSVIRNYIDWLVALPWTDETDDKLDLKEAGRLLDEEHHGLEKVKERILEYLAVQKLTKSLKGPILCLAGPPGVGKTSLAKSIAKSLGRKFVRISLGGVRDESEIRGHRRTYVGAMPGRIIQGMKKAGKLNPVFLLDEIDKMSSDFRGDPSSAMLEVLDPEQNSSFSDHYIEETFDLSKVLFIATANNLATIPGPLRDRMEIINIAGYTEIEKLEIVKDHLLPKQIKEHGLKKSNLQLRDQAILDIIRYYTREAGVRSLERQLAAICRKAAKAIVAEERKRITVTEKNLQDFIGKRIFRYGQAETEDQVGVVTGLAYTTVGGDTLSIEVSLSPGKGKLILTGKLGDVMRESAQAAFSYVRSKTEELGIEPDFHEKYDIHIHVPEGAVPKDGPSAGITMATALVSALTGRAVSREVGMTGEITLRGRVLPIGGLKEKALGAHRAGLTTIIAPKDNEKDIEDIPESVREGLTFILASHLDEVLEHALVGEKK |
| 1963 | sp|O69300|LON\_CAMJE | MQIEEIQNYPANLPVLVEDELFLYPFMITPIFINDSSNMKALDLAIKNDSMLFVAPSKLENGRNFDEIYNCGVIGTIMRKVPLPDGRVKILFQGYAKGKIIEQISNKPLEAKIELIKEDFLEGTKKEALLEVLKEKVKNLANISHYFSPDLLRTIEEGFDASRICDLILNTVRIKKQVAYEFFVLTDLEQKLVKLIDLIAQEIEANKIQKEIKNKVHSRIDKVNKEYFLKEQLRQIQKELGSDTQKEDEVREYQKRLELKKKFMHEDAYKEIKKQIEKFERIHQDNSEASMIQTYIETALDIPFEKISKKKLDIKEVSKQLNHDHYALNKPKERIEEYFAVRELLEKRKIAEKDGAKVILCLYGPPGVGKTSLANSVSKALKRELIRIALGGLEDVNELRGHRRTYIGAMPGRITQGLIEAKQINPVIVLDEIDKLNRSFRGDPSAVLLEILDPEQNSKFRDYYLNFNIDLSKVIFIATANDISNIPAPLRDRMEFIELSSYTPSEKFHIMKKYLIPDELKKHGLKSNELSIDDETIELIISDYTRESGVRNLRRKVAELCRKSAKKLLLENIKKVIINTKNLNEFLDKKVFEIEKNNGENQVGQVNGLAWTSVGGDVLKVEAVKIKGKGELTLTGSLGDVMKESARIAFSMIKVLIDEGKIKIPKKIIIDPKVNVYDSYNIHIHVPDGATPKDGPSAGITISTAIASIFSDKKVKADVAMTGEIDLKGKVLPIGGLKEKLIAAYKADIKTALIPRKNYERDLKDIPSEVRDNMEIIAVDTFSDVLEYTLV |
| 1964 | sp|P0A9M1|LON\_ECOL6 | MNPERSERIEIPVLPLRDVVVYPHMVIPLFVGREKSIRCLEAAMDHDKKIMLVAQKEASTDEPGVNDLFTVGTVASILQMLKLPDGTVKVLVEGLQRARISALSDNGEHFSAKAEYLESPTIDEREQEVLVRTAISQFEGYIKLNKKIPPEVLTSLNSIDDPARLADTIAAHMPLKLADKQSVLEMSDVNERLEYLMAMMESEIDLLQVEKRIRNRVKKQMEKSQREYYLNEQMKAIQKELGEMDDAPDENEALKRKIDAAKMPKEAKEKAEAELQKLKMMSPMSAEATVVRGYIDWMVQVPWNARSKVKKDLRQAQEILDTDHYGLERVKDRILEYLAVQSRVNKIKGPILCLVGPPGVGKTSLGQSIAKATGRKYVRMALGGVRDEAEIRGHRRTYIGSMPGKLIQKMAKVGVKNPLFLLDEIDKMSSDMRGDPASALLEVLDPEQNVAFSDHYLEVDYDLSDVMFVATSNSMNIPAPLLDRMEVIRLSGYTEDEKLNIAKRHLLPKQIERNALKKGELTVDDSAIIGIIRYYTREAGVRGLEREISKLCRKAVKQLLLDKSLKHIEINGDNLHDYLGVQRFDYGRADNENRVGQVTGLAWTEVGGDLLTIETACVPGKGKLTYTGSLGEVMQESIQAALTVVRARAEKLGINPDFYEKRDIHVHVPEGATPKDGPSAGIAMCTALVSCLTGNPVRADVAMTGEITLRGQVLPIGGLKEKLLAAHRGGIKTVLIPFENKRDLEEIPDNVIADLDIHPVKRIEEVLTLALQNEPSGMQVVTAK |
| 1965 | sp|Q9M8S0|MBS1\_ARATH | MTGKAKPKKHTAKEIQAKIDAALTNRGGGKAGIADRTGKEKGGHAKYECPHCKITAPGLKTMQIHHESKHPNIIYEESKLVNLHAVLAPVAESKPKPGIRGSLKK |
| 1966 | sp|A2VDU3|M3K7\_BOVIN | MSTASAASSSSSSSAGEMIEAPSQVLNFEEIDYKEIEVEEVVGRGAFGVVCKAKWRAKDVAIKQIESESERKAFIVELRQLSRVNHPNIVKLYGACLNPVCLVMEYAEGGSLYNVLHGAEPLPYYTAAHAMSWCLQCSQGVAYLHSMQPKALIHRDLKPPNLLLVAGGTVLKICDFGTACDIQTHMTNNKGSAAWMAPEVFEGSNYSEKCDVFSWGIILWEVITRRKPFDEIGGPAFRIMWAVHNGTRPPLIKNLPKPIESLMTRCWSKDPSQRPSMEEIVKIMTHLMRYFPGADEPLQYPCQYSDEGQSNSATSTGSFMDITSTNTSNKSDTNMEQVPATNDTIKRLESKLLKNQAKQQSESGRLSLGASRGSSVESLPPTSEGKRMSADMSEIEARIAATTGNGQPRRRSIQDLTVTGTDPGQVSSRSSSPSVRMITTSGPTSEKPARSHPWTPDDSTDTNGSDNSIPMAYLTLDHQLQPLAPCPNSKESMAVFEQHCKMAQEYMKVQTEIALLLQRKQELVAELDQDEKDQQNTSRLVQEHKKLLDENKSLSTYYQQCKKQLEVIRSQQQKRQGTS |
| 1967 | sp|Q9C5S1|MKP1\_ARATH | MVGREDAMGNDEAPPGSKKMFWRSASWSASRTASQVPEGDEQSLNIPCAISSGPSRRCPAAPLTPRSHHNSKARACLPPLQPLAISRRSLDEWPKAGSDDVGEWPHPPTPSGNKTGERLKLDLSSTQQRVTDKSSGLAKREKIAFFDKECSKVADHIYVGGDAVAKDKSILKNNGITHILNCVGFICPEYFKSDFCYRSLWLQDSPSEDITSILYDVFDYFEDVREQSGRIFVHCCQGVSRSTSLVIAYLMWREGQSFDDAFQYVKSARGIADPNMGFACQLLQCQKRVHAFPLSPTSLLRMYKMSPHSPYDPLHLVPKLLNDPCPGSLDSRGAFIIQLPSAIYIWVGRQCETIMEKDAKAAVCQIARYEKVEAPIMVVREGDEPVYYWDAFASILPMIGGSVIKVQPGDRKVDAYNLDFEIFQKAIEGGFVPTLASSNNEHETHLPARENSWSSLKCKFASRFDKGFRYVSKTPLSRVYSDSMMIVHSSGSPSSTTSSSSTASPPFLSPDSVCSTNSGNSLKSFSQSSGRSSLRPSIPPSLTLPKFSSLSLLPSQTSPKESRGVNTFLQPSPNRKASPSLAERRGSLKGSLKLPGLADSNRGTPAFTLHPDDSNDIVFNLEGIRNGDLYPPSDCKGTSVDSDLPEKEIISLISCSKSDRHKSGGDTDSSGQPLACRWPSMEMITKLSRAYLDSESVIAIPLPSDAVGETGSRNLYIWIGKSFSLDNNCSLVDSNKAADTVENVDWVQIGESILCQMDLPKDTPIKIVRESEDQTELLALLSAL |
| 1968 | sp|E6ESW1|MSRB\_ENTFT | MTKPTEEELKQTLTDLQYAVTQENATERPFSGEYDDFYQDGIYVDIVSGEPLFSSLDKYDAGCGWPSFTKPIEKRGVKEKADFSHGMHRVEVRSQEADSHLGHVFTDGPLQEGGLRYCINAAALRFVPVADLEKEGYGEYLSLFK |
| 1969 | sp|A0R3I8|MPRA\_MYCS2 | MAVRILVVDDDRAVRESLRRSLSFNGYSVELAQDGVEALDAITNNRPDALILDVMMPRLDGLEVCRQLRSTGDDLPILVLTARDSVSERVAGLDAGADDYLPKPFALEELLARMRALLRRTVSDDSGDSQKMTFSDLTLDPVTREVTRGGRQISLTRTEFSLLEMLIANPRRVLTRSRILEEVWGFDFPTSGNALEVYIGYLRRKTEAEGEPRLIHTVRGVGYVLRETPP |
| 1970 | sp|Q2QNC3|MT4C\_ORYSJ | MSCGGSCNCGSCGCGGGCGKMYPDLAEKITTTTTTATTVLGVAPEKGHSEGVGKAAESGEAAHGCSCGSSCRCNPCNC |
| 1971 | sp|Q5QNI2|NCL1\_ORYSJ | MATRRRSFPLVPLLLFLLAAAAYGRLISDGSPASASATSLLSNPVSAVIRLTTSNSASASSPPAAAPEEKCEQSYGFLPCTTTVLGNLFLVLAYGFLMYKAATFLSAGSELLLEIMGPGLVGGLLLPILGALPDALLVLVSGLSGSRETAQSQVLIGMGLLAGSTVFLLTLLWGTCVVVGKCDIGPNGVAVDLQNNKGFSLTGTGISTDVQTSYAARIMGISVIPFIIAQFPKMLKTHHGQRLAVLLALIVSFSLVLAYCLYQVFQPWIQKRKLAYAKHKHVISGILRHAQMEALGRLLNEDGTPNEDVIKKLFHKIDMDESQTLSRAELHALIIGINFEEVDFDKNDAVDKIMDDFDTSGNDIVEEAEFVSGMKRWLNEAKRSVPTSGAYSNKFITDYHARTRQEHDLLVDRSDETVESVENPGWCITKAVGLLLLGSAIAAAFADPLVDAVHNFSNASHIPSFFISFIALPLATNSSEAVSAIIFASRKKLRTSSLTFSEVYGGVTMNNTLCLGVFLALIYIRNLTWDFSSEVLIILLVCVIMGLFTSFRTTFPLWTCLVAYMLYPLSLVVVYILDFVFGWS |
| 1972 | sp|Q0WV96|NAC1\_ARATH | MEDQVGFGFRPNDEELVGHYLRNKIEGNTSRDVEVAISEVNICSYDPWNLRFQSKYKSRDAMWYFFSRRENNKGNRQSRTTVSGKWKLTGESVEVKDQWGFCSEGFRGKIGHKRVLVFLDGRYPDKTKSDWVIHEFHYDLLPEHQRTYVICRLEYKGDDADILSAYAIDPTPAFVPNMTSSAGSVVNQSRQRNSGSYNTYSEYDSANHGQQFNENSNIMQQQPLQGSFNPLLEYDFANHGGQWLSDYIDLQQQVPYLAPYENESEMIWKHVIEENFEFLVDERTSMQQHYSDHRPKKPVSGVLPDDSSDTETGSMIFEDTSSSTDSVGSSDEPGHTRIDDIPSLNIIEPLHNYKAQEQPKQQSKEKVISSQKSECEWKMAEDSIKIPPSTNTVKQSWIVLENAQWNYLKNMIIGVLLFISVISWIILVG |
| 1973 | sp|A7TR75|NST1\_VANPO | MPSHSKNKKRKSKSKGGSTVKKSGGLLEKGIGNITAELYNDTDDYPTSRVIKRAPNGDVIVESLPTKPKKSKSRQTNSSSNNDMILDLDSHWEWLSPEEKKNILRIDKDEVFEMLSRYNNHNSNNVNGNTNNNNIIGTGSNNLSGGISTNSNNNTSSSCNCNVCGRRHMAMDQEMERIYNRLYEMQRENYEDMTHIKFHLNIIKDLQKRKTQMISPPASPEMDSNNVDEAREPNSGSSNESLDIKNDLETMRDEVVKYFLSPNSVDTLKKEVLNFKHNKQKQFQTPISLNEDNTEEVVEDNEAQHIYDDLSNEIHDSGLIESPRTVEDDANIIDIESKSRYLNFAKTFISSHPTIAQEYVNKMIMYPEMKELTDDLMNNNGSGFIKAIEEFVLDKQKQNTLPDTEIDINDVNSQQHENPEEALQVQDLGDAKEFTTMLHNGQPLTSDEYANLQRHIAERVTDAYNTETKEFEGISQLEKELFTRFMHGSDRRQFGDSILQLFKNKYDDKLSANSISTSLAAAASTITHDIISPRNDDGNDTEEDIDYYDDEDDVSSENIHHRNDLDDDFKSREEYSDYNSDFHDNRKCEKYNDFDDDDDYLDNNRNLECAHAEHNHETLSTYHHDVDLADSNSHGYKNYASHHTSSQVSEDYIDDIDDDGYESGIDENERLEEGRKLLQITITKILQRRIMESYHAKQAENNRMKLLEELEAEESKKKEKEEKKQRKREKEKEKKRLLQVAKEEERKKKEEEAERLKKEAEEREMERRETQRKKVEAAKKKKDEEKKRKLEEQRKREEEQERQRKIKEEQKRKKDEERKQKELEKKKKDEEKRIQEEEKRKKEEEAEQKTLNEKKRLDVEIMEQKRLEEEEKRLKSTASTSNVPYAELLKMTPSLQPVSGNINDELFGMINAATSSQSIPTSSSHLNHLLQQNDASHFNMTPRHDLLNPSGGMHFGPSDLIEQSHFTHKSNSFDTLAAINDPTTPQTTLPYGNSSVPPNSFDISSWGNFNGSSTAETQLQSQLPQQSLLGSHSVTSDQNRKSFNEELNTITNLLSTTGLEDQLSQKDSFAHSSLWGSQGTSLSGSNPNLSSNFAPAGLPINQTPISPGNIGIPTTTHRSSIWDISSGVDYSLNDNKITGSIQSERPLSNVIPSSYMSPNIWSGGTSKIPVIEQPLVFNPNENQTNPISNIILRELSLLTLPNSTDQYVSSELLCQKVMANRIDYGVYFTELMNLRNAHKIEIASNDNGQVTHVKLVYKSKDELEMPLNSSENQNSHIQMQQNYGLQPISSTTAGNTASTTANNANGSTINTSNSHFFNINKTISNPSVTANIWS |
| 1974 | sp|Q9AL95|NROR\_CLOAB | MKSTKILILGAGPAGFSAAKAALGKCDDITMINSEKYLPYYRPRLNEIIAKNKSIDDILIKKNDWYEKNNIKVITSEFATSIDPNNKLVTLKSGEKIKYEKLIIASGSIANKIKVPHADEIFSLYSYDDALKIKDECKNKGKAFIIGGGILGIELAQAIIDSGTPASIGIILEYPLERQLDRDGGLFLKDKLDRLGIKIYTNSNFEEMGDLIRSSCVITAVGVKPNLDFIKDTEIASKRGILVNDHMETSIKDIYACGDVAEFYGKNPGLINIANKQGEVAGLNACGEDASYSEIIPSPILKVSGISIISCGDIENNKPSKVFRSTQEDKYIVCMLKENKIDAAAVIGDVSLGTKLKKAIDSSKSFDNISSLDAILNNL |
| 1975 | sp|O00459|P85B\_HUMAN | MAGPEGFQYRALYPFRRERPEDLELLPGDVLVVSRAALQALGVAEGGERCPQSVGWMPGLNERTRQRGDFPGTYVEFLGPVALARPGPRPRGPRPLPARPRDGAPEPGLTLPDLPEQFSPPDVAPPLLVKLVEAIERTGLDSESHYRPELPAPRTDWSLSDVDQWDTAALADGIKSFLLALPAPLVTPEASAEARRALREAAGPVGPALEPPTLPLHRALTLRFLLQHLGRVASRAPALGPAVRALGATFGPLLLRAPPPPSSPPPGGAPDGSEPSPDFPALLVEKLLQEHLEEQEVAPPALPPKPPKAKPASTVLANGGSPPSLQDAEWYWGDISREEVNEKLRDTPDGTFLVRDASSKIQGEYTLTLRKGGNNKLIKVFHRDGHYGFSEPLTFCSVVDLINHYRHESLAQYNAKLDTRLLYPVSKYQQDQIVKEDSVEAVGAQLKVYHQQYQDKSREYDQLYEEYTRTSQELQMKRTAIEAFNETIKIFEEQGQTQEKCSKEYLERFRREGNEKEMQRILLNSERLKSRIAEIHESRTKLEQQLRAQASDNREIDKRMNSLKPDLMQLRKIRDQYLVWLTQKGARQKKINEWLGIKNETEDQYALMEDEDDLPHHEERTWYVGKINRTQAEEMLSGKRDGTFLIRESSQRGCYACSVVVDGDTKHCVIYRTATGFGFAEPYNLYGSLKELVLHYQHASLVQHNDALTVTLAHPVRAPGPGPPPAAR |
| 1976 | sp|A8FYU0|DNAK\_SHESH | MGKIIGIDLGTTNSCVAVLDGDTPRVLENAEGDRTTPSIIAYTGEEILVGQPAKRQAVTNPTNTFFAIKRLIGRRFKDDEVQRDVDIMPFKIIGADNGDAWVEAHGKKMAPPQVSAETLKKMKKTAEDFLGEEVTEAVITVPAYFNDSQRQATKDAGRIAGLEVKRIINEPTAAALAYGIDKKQGDNIVAVYDLGGGTFDISIIEIDSVDGEQTFEVLATNGDTHLGGEDFDNRLINYLADEFKKEQSLDLRNDPLAMQRLKEAAEKAKIELSSASQTEVNLPYITADATGPKHLVVKITRAKLESLVEDLITRTLEPLKVALADADLSVSDINEVILVGGQTRMPKVRTEVSEFFGKELRQDVNPDEAVAIGAAVQAGVLSGDVKDVLLLDVTPLSLGIETMGSVMTKLIEKNTTIPTKASQTFSTADDNQSAVTIHVLQGERKQSSGNKSLGQFNLEGIEAAPRGMPQIEVAFDIDADGILHVSATDKKTGKAQNITIKASSGLSEEEVEAMVRDAEAHADEDAKFEELVTARNQADGMVHATKKQIEEAGEALPSDEKEKIETAMAAVDTAVKGNDKEAIEKSTQELMEASSKLMEIAQAKAQAEQGQQAPEGEAQAAKPDEDVVDAEFEEVKDDKK |
| 1977 | sp|Q16D45|DNAK\_ROSDO | MSKVIGIDLGTTNSCIAIMDGSQPRVVENAEGARTTPSIVAFTDDERLVGQPAKRQAVTNPDNTIFGVKRLIGRRNDDAALAKDKKNLPFAVIDGGNGDAWVEAKGEKYSPSQISAFILGKMKETAESYLGEDVTQAVITVPAYFNDAQRQATKDAGKIAGLEVLRIINEPTAAALAYGLDKEQTQTIAVYDLGGGTFDVTILEIDDGLFEVKSTNGDTFLGGEDFDMRIVNYLADTFKKEHSVDLTQDKMALQRLKEAAEKAKIELSSSSQTEINQPFISMGSNGQPLHMVMKLTRSKLESLVGDLIKASLKPCKDALKDAGLSASDIDEIVLVGGMTRMPKVVEEVTKFFGKEPHKGVNPDEVVAMGAAIQAGVLQGDVKDVVLLDVTPLSLGIETLGGVFTRLIDRNTTIPTKKSQIFSTAEDNQNAVTIRVFQGEREMAADNKILGAFNLENIPPAPRGMPQIEVTFDIDANGIVSVGAMDKGTGKEQKITIQASGGLSDEDIEKMVKDAEENADADKARRELIEAKNQAESLIHSTEKSLEEHSDKVDPTTVEAIELAIAALKDEMESENADKIKSGIQNVTEAAMKLGEAIYNASQEENDDVAEPADGPHDDQDDIVDAEFEDLDNDKRA |
| 1978 | sp|Q3IC08|DNAK\_PSEHT | MGRIIGIDLGTTNSCVAVLDGGKARVIENAEGDRTTPSVIAYTQDGETLVGQPAKRQAVTNPTNTVFAIKRLIGRRFEDEEVQRDIGIMPFKIVKADNGDAWVEAGGEKRAAPQISAEILKKMKKTAEDFLGEAVTEAVITVPAYFNDSQRQATKDAGRIAGLEVKRIINEPTAAALAYGMDKNRGENIVAVYDLGGGTFDLSIIEIDEVEGEHTFEVLATNGDTHLGGEDFDNRVINYLVAEFKKDQGLDLKTDPLAMQRVKEAAEKAKIELSSAQSTEVNLPYVTADATGPKHMNVKLTRAKLESLVEDLVTKSIEPLKRALADADLSVSDINDIILVGGQTRMPLVQKTVAEFFGKEPRKDVNPDEAVAVGAAIQGGVLAGDVKDVLLLDVSPLSLGIETMGSVMTALIEKNTTIPTKKSQTFSTAEDNQSAVTIHVLQGERKRSSDNKSLGQFNLEGIRPAQRGTPQIEVTFDVDADGILHVSAKDKDTGKEQKITIQASSGLSDEEVEQMIRDAEAHAEDDKKFEELVATRNQADAMVHGTRKQIEEAGDALPSEDKEAIEAAVVDLETAIKSDKKDEIEAKTQALAEKSQKLMEIAQAKAQQGSADAGEQQQSAKQDDDVVDAEFEEVKDDK |
| 1979 | sp|Q7V9G2|DNAK2\_PROMA | MGKVVGIDLGTTNSCVAVMEGGKPTVIANAEGFRTTPSVVAYTKNQDQLVGQIAKRQAVMNPENTFYSAKRFVGRRVDEVNEESKEVSYSVEKSGSSVKLKCPVLDKQFSPEEVAAQVLRKLSEDAGKYLGENINQAVITVPAYFNDSQRQATKDAGKIAGLEVLRIINEPTAAALAYGLDRKSNERILVFDLGGGTFDVSVLEVGDGVFEVLSTSGDTHLGGDDFDKVIVDHLAATFKANEGIDLRQDKQALQRLTEAAEKAKIELSNATQSEINLPFITATPEGPKHVDLTLTRAKFEELASNLIDRCRVPVEQALKDAKLSTGEIDEIVMVGGSTRMPAVKELVKRVTGKDPNQTVNPDEVVAVGAAIQGGVLAGEVKDILLLDVTPLSLGVETLGGVMTKMITRNTTVPTKKTETYSTAVDGQTNVEIHVLQGEREMASDNKSLGTFRLDGIPPSPRGVPQIEVTFDIDANGILSVTAKDKGSGKEQSISITGASTLSDNEVEKMVKDAETNATADKEKRDRIDIKNQAETLVYQTEKQLGELGDKVDEEAKAKVEAKRIQLKEATEKDDYETMKTLVEDLQKELYSLGASVYQQSNAASQAADGTSSESNNSTEGNDDVIDAEFTESK |
| 1980 | sp|P20442|DNAK\_CAUVC | MSKIIGIDLGTTNSCVAIMDGKTPKVIENAEGARTTPSVVAFLEDGERLIGQPAKRQAVTNPTNTLFAIKRLIGRTASDPVVEKDKGMVPYEIVKGPTGDAWVKAHGKDYSPQEVSAFILQKMKEAAEAHLGEPVTKAVITVPAYFNDAQRQATKDAGKIAGLEVLRIINEPTAAALAYGLDKNDGKKIAVYDLGGGTFDVSILEIGDGVFEVKSTNGDTFLGGEDFDLRIVDYLADEFKKEQGVDLRKDKLALQRLREEAEKAKKELSSTAQYEVNLPFISMNASGPLHLNIKLSRAKLEALVDDLIARTIGPCEQALKDAGLKKSDIDEVILVGGMSRMPKVQQAVQDFFGREPHKGVNPDEVVALGAAVQAGVLQGDVKDVLLLDVTPLTLGIETLGGVFTPLIERNTTIPTKRSQTFSTADDNQSAVTIRVFQGERPMAQDNKMLGQFDLVGIPPAPRGVPQIEVTFDIDANGIVQVHAKDKATNKEQSIRIQANGGLSDSDIERMVKEAEANKAADEKKKQLVEAKNQGEAILHSTEKALAEHGDKVGAAEKTAIETGITELKTALEGEDVEAIQAKTQALIQASMKLGEAMYAAQQGSAEGGDAKADDGVVDAEFEEVDDNKPAA |
| 1981 | sp|Q2RNE6|DNAK\_RHORT | MSKVIGIDLGTTNSCVAVMDGKDVRVIENAEGARTTPSQVAFTESGERLVGQPAKRQAVTNPENTLFAIKRLIGRRYSDPTVEKDKGLVPYRIVKGDNGDAWVQTRDEKYAPSQLSAFILQKMKETAEAHLGEPVTQAVITVPAYFNDSQRQATKDAGKIAGLEVLRIINEPTAAALAYGMDKKNTGTIAVFDLGGGTFDVSVLEIGDGVFEVKSTNGDTFLGGEDFDARIIDYLASEFKKEQGIDLRTDRLALQRLKEAAEKAKIELSSSMQTEVNLPFITADQAGPKHLNIKLTRAKLEALVDDLVQRTVEPCRKALADAGIKASEIDEVILVGGMTRMPKVQQVVKDFFGREPHKGVNPDEVVAMGAAIQGGVLKGDVKDVLLLDVTPLSLGIETLGGVFTRLIDRNTTIPTRKSQTFSTAEDSQTAVTIRVFQGEREMAADNKMLGQFDLVGLPSAPRGVPQIEVTFDIDANGIVNVSAKDKATGKEQAIRIQASGGLSDNDIERMVKEAELNAEADRKRKEAVEARNHADGLIHATEKNLKEYGDKIPAEDKAKVEGDLTALKAVLDSEDAESIKAKTDALMQSAMKLGEAAYSAGQSAEGAPHAAGAEASAQSRTDDGVVDADFEEVDEKKGH |
| 1982 | sp|Q55154|DNAK1\_SYNY3 | MGKVIGIDLGTTNSCASVLEGGKPIVITNTEGGRTTPSIVGFTKGSQRLVGQLAKRQSVTNAENTVYSIKRFIGRRWDDTVEERSRVPYNCVKGRDDTVSVSIRGQSYTPQEISAMILQKLKADSEAFLGEPVTQAVITVPAYFTDAQRQATKDAGTIAGLEVLRIINEPTAAALAYGLDKQETEELILVFDLGGGTFDVSLLQLGNGVFEVLSTSGNNHLGGDDFDNCVVQWMAESFKQKENIDLSTDKMAIQRLREAAEKAKIELSSMLNTTINLPFITADESGPKHLEMELARSQFEELTKQLLEDTRVPLTQALDDGEIRASDVHRVILVGGSTRIPAIQRVIQEFFPDSQLERSVNPDEAVALGAAIQAGVIGGEVEDVLLLDVTPLSLGLETLGEVTTKIIERNTTIPTSRSEVFSTAVDGQTSVEIHVIQGERAMARDNKSLGKFLLAGIPPAPRGMPQIEVSFEIDVNGILKVSAQDQGTGKEQSIVISHTGGLSGGEIEKMRQEAQQYAAQDQLRLRMMELQNQADSLFHTYETTLQESGELVREELKSSGKQKKDQLAIALRTPNTPVEKLQTLVEEFRQIILLIGTEVYQQGKGAASNEFANFVQGTSSGTSQMIESLETNLNPIQASSGITMTPGTMINGTVNPGGMDYVETAPVYGLDDGEEFDFDADETVYSDYEAID |
| 1983 | sp|A4Y9Q3|DNAK\_SHEPC | MGKIIGIDLGTTNSCVAVLDGGKARVLENAEGDRTTPSIIAYTDDETIVGSPAKRQAVTNPTNTFFAIKRLIGRRFKDDEVQRDVNIMPFKIIQADNGDAWVESRGNKMAPPQVSAEILKKMKKTAEDFLGEEVTEAVITVPAYFNDSQRQATKDAGRIAGLDVKRIINEPTAAALAYGIDKKQGDNIVAVYDLGGGTFDISIIEIDSNDGDQTFEVLATNGDTHLGGEDFDNRLINYLADEFKKEQGLDLRKDPLAMQRLKEAAEKAKIELSSTNHTEVNLPYITADATGPKHLVIKITRAKLESLVEDLILRTLEPLKVALADADLSVSDVNEVILVGGQTRMPKVQEAVTNFFGKEPRKDVNPDEAVAVGAAIQAGVLSGDVKDVLLLDVTPLSLGIETMGSVMTKLIEKNTTIPTKAQQVFSTADDNQSAVTIHVLQGERKQASANKSLGQFNLDGIEPAPRGQPQIEVMFDIDADGILHVSATDKKTGKKQNITIKASSGLSEEEVAQMVRDAEAHADEDKKFEELVQARNQADGLVHATKKQVEEAGDALPSEDKEKIQAAMAAVDTATKGNDKEAIEKASQELIEASAKLMEIAQAKSQAQGGAETNAGKQANAAADDVVDAEFEEVKDDKK |
| 1984 | sp|Q1JFC8|DNAK\_STRPD | MSKIIGIDLGTTNSAVAVLEGTESKIIANPEGNRTTPSVVSFKNGEIIVGDAAKRQAVTNPDTVISIKSKMGTSEKVSANGKEYTPQEISAMILQYLKGYAEDYLGEKVEKAVITVPAYFNDAQRQATKDAGKIAGLEVERIVNEPTAAALAYGMDKTDKDEKILVFDLGGGTFDVSILELGDGVFDVLATAGDNKLGGDDFDQKIIDFLVAEFKKENGIDLSQDKMALQRLKDAAEKAKKDLSGVTQTQISLPFITAGSAGPLHLEMSLSRAKFDDLTRDLVERTKTPVRQALSDAGLSLSEIDEVILVGGSTRIPAVVEAVKAETGKEPNKSVNPDEVVAMGAAIQGGVITGDVKDVVLLDVTPLSLGIETMGGVFTKLIDRNTTIPTSKSQVFSTAADNQPAVDIHVLQGERPMAADNKTLGRFQLTDIPAAPRGIPQIEVTFDIDKNGIVSVKAKDLGTQKEQHIVIKSNDGLSEEEIDRMMKDAEANAEADAKRKEEVDLKNEVDQAIFATEKTIKETEGKGFDTERDAAQSALDELKAAQESGNLDDMKAKLEALNEKAQALAVKMYEQAAAAQQAAQGAEGAQANDSANNDDVVDGEFTEK |
| 1985 | sp|Q5X3M8|DNAJ\_LEGPA | MEQRDYYELLEVSRNASDAEIKKAYRRLAMKYHPDRNPGDTSAEEKFKEIQKAYNILSDKQKRAAYDQFGHAGVDPSMGGGPGGFGGFGGFGDVFEDIFENIFSGGRGHGRQSRGQRGADLQFNVQLTLEEAAIGKEVEITVPRHGTCTVCEGSGAKKGTSPKTCETCQGMGQVRIQQGFFSIQQTCPTCHGEGKIISDPCASCHGQGRVRESKKINVKIPAGVDNGDRVRLSGEGEAGVHGGGSGDLYVQISLKKHAIFERHENDLHCEVPISFATAALGGSIEVPTLEGRVTLKIPAETQTGKVFRLRSKGMKSVRGYGQGDLLCKVVVETPVNLSREQKELLNKLQDSLENAKGTHSPKTSSWFAGVKKFFEDMKF |
| 1986 | sp|Q93561|DERL1\_CAEEL | MDLENFLLGIPIVTRYWFLASTIIPLLGRFGFINVQWMFLQWDLVVNKFQFWRPLTALIYYPVTPQTGFHWLMMCYFLYNYSKALESETYRGRSADYLFMLIFNWFFCSGLCMALDIYFLLEPMVISVLYVWCQVNKDTIVSFWFGMRFPARYLPWVLWGFNAVLRGGGTNELVGILVGHAYFFVALKYPDEYGVDLISTPEFLHRLIPDEDGGIHGQDGNIRGARQQPRGHQWPGGVGARLGGN |
| 1987 | sp|B5E232|DNAK\_STRP4 | MSKIIGIDLGTTNSAVAVLEGTESKIIANPEGNRTTPSVVSFKNGEIIVGDAAKRQAVTNPDTVISIKSKMGTSEKVSANGKEYTPQEISAMILQYLKGYAEDYLGEKVTKAVITVPAYFNDAQRQATKDAGKIAGLEVXRIVNEPTAAALAYGLDKTDKEEKXXVFDLGGGTFDVSILELGDGVFDVLSTAGDNKLGGDDFDQKIIDHLVAEFKKENGIDLSTDKMAMQRLKDAAEKAKKDLSGVTSTQISLPFITAGEAGPLHLEMTLTRAKFDDLTRDLVERTKVPVRQALSDAGLSLSEIDEVILVGGSTRIPAVVEAVKAETGKEPNKSVNPDEVVAMGAAIQGGVITGDVKDVVLLDVTPLSLGIETMGGVFTKLIDRNTTIPTSKSQVFSTAADNQPAVDIHVLQGERPMAADNKTLGRFQLTDIPAAPRGIPQIEVTFDIDKNGIVSVKAKDLGTQKEQTIVIQSNSGLTDEEIDRMMKDAEANAEADKKRKEEVDLRNEVDQAIFATEKTIKETEGKGFDAERDAAQAALDDLKKAQEDNNLDDMKAKLEALNEKAQGLAVKLYEQAAAAQQAQEGAEGAQATGNAGDDVVDGEFTEK |
| 1988 | sp|A8EWT6|DNAK\_ARCB4 | MSKVIGIDLGTTNSCVAVYENGEAKIIPNKEGKNTTPSIVAYTDKGEVLVGDPAKRQAITNPEKTIYSIKRIMGLMMNEPNAKEAQSKVGYKIVDRNGAAAVEIAGKVYTPQEISAKILGKLKADAEEYLGDKVTDAVITVPAYFNDAQRKATQEAGTIAGLNVLRIINEPTAASLAYGLDKKGEEKVLVYDLGGGTFDVTVLEIGDGTFEVLSTDGNAFLGGDDFDNAIIDWLAKEFKDENGFDIKNDKMALQRLKDAAENAKKELSSAESTEINLPFISMGNAGPIHLVKSLTRAKFESMTEKLIDETLDHIKIALKEAGLSKGDIDEIIMVGGSTRLPKANQVVKEFFGKDLNKGVNPDEVVAAGAAVQAGVLRGDVKDVLLLDVTPLSLGIETLGGVMTKLIDKGTTIPVKKSQVFSTADDNQPAVSIHVCQGEREFAKDNKSLGMFELSDIPAAPRGVPQIEVTFDIDANGVLNVSAKDKGTGKENKITISGSSGLSDAEIEKMVAEAEANKEADAKKKAVIEVRNQADALLHSTRKTLEENENAISEDEKKAIIDAAADLEETLKDENATKEQIEEKLKTLTDKSHKLAEAMYKKEQGEQAGAQPNQKAKKDDDDVIDAEVE |
| 1989 | sp|A2YXQ7|DRE1J\_ORYSI | MDVARDMEKNTTAMGQLMSSSATTAATATGPASPKRPAGRTKFQETRHPVFRGVRRRGRAGRWVCEVRVPGSRGDRLWVGTFDTAEEAARAHDAAMLAMCGASASLNFTDSAWLLHVPRAPVASGHDQLPDVQRAASEAVAEFQRRGSTAATATATSGDAASTAPPSSSPVLSPNDDNASSASTPAVAAALDHGDMFGGMRADLYYASLAQGLLIEPPPPPTTTEGFCDDEGCGGAEMELWS |
| 1990 | sp|O13889|E2AK1\_SCHPO | MLGTSTKCSKRDCNYAKENISRIMPTIGLGYKQNFEKKTADTQSSCKLLLVALLESFCKHSDQTPEQSKQMFLYVAHSLQNSGIIDFEFSEELEPIRNAYADSLHNLLSKAFRSTLPMSSTKDSKKSRYSSPDGVLAKTASFLSVLSDGGYEDDVMNVKPSVNVLSNRLNHLPVEALESCFPQTTLESSTFADFCEHKDGTGNLSFSNFDSFPTVQRSRYASDFEELELLGKGGYGSVYKARNKFDGVEYALKKIPLRLRSFSTSSNIFRESRTLARLNHPNVIRFFSSWVELLPSSEKQIEEEPLASADETLSQSADIDNFMFDMDTGLLQHTYPSSVQILFQEDSVADDLTPCYSTKNSTCNLTDLFKKEADQDYAESHDCSSTTSQVDTLGKLAPTKSASEMLLMDSFLSEREEDECSNIPSFDQQPLCLYIQMALCEETLEKHINRRNKHIHGVMSKGLRNCYILLFARILEGVLYLHDAMHLVHRDLKPRNIFLSSGVHSEPCSVCLPNFSDEDNVEVSNAYEPVNQRTLCVVPKIGDFGLVLSQSDNLEEGTNSSAESSFVGTSTYAAPELFSKHMRSVMNNNSSTDIYALGILFFELLYPFNTRMERASAIANLKKGIFPHDFLDSMPEEASLIRSMLSSSNKRPTAAQLLTSNLFHDLVVNELHVYQALLEDAEKRNNNLKAELNILRVLNPNYDC |
| 1991 | sp|A2Z389|DRE1A\_ORYSI | MCGIKQEMSGESSGSPCSSASAERQHQTVWTAPPKRPAGRTKFRETRHPVFRGVRRRGNAGRWVCEVRVPGRRGCRLWLGTFDTAEGAARAHDAAMLAINAGGGGGGGACCLNFADSAWLLAVPRSYRTLADVRHAVAEAVEDFFRRRLADDALSATSSSSTTPSTPRTDDEEESAATDGDESSSPASDLAFELDVLSDMGWDLYYASLAQGMLMEPPSAALGDDGDAILADVPLWSY |
| 1992 | sp|P48408|DPS2\_PINST | MSVGMGVDLEAFRKSQRADGFASILAIGTANPPNVVDQSTYPDYYFRNTNNEDNTDLKDKFKRICERSAIKKRHMYLTEEILKKNPELCAFLEVPSLDTRQAMLAVEVPRLGKEAAEKAIEEWGQPKSRITHLIFCTTTTPDLPGADFEVAKLLGLHPSVKRVGVFQHGCFAGGTVLRLAKDLAENNRGARVLVVCSENTAVTFRGPSETHLDGLVGLALFGDGAAALIVGADPIPQVEKPCFEIVWTAQTVVPNSDGAISGKLREVGLTFQLKGAVPDLISTNIEKCLVEAFSQFNISDWNQLFWIAHPGGRAILDQVEASLNLDPTKLRATRHVMSEYGNMSSACVHFILDETRKASRQNGCSTSGGGFQMGVLFGFGPGLTVETVVLKSIPFP |
| 1993 | sp|Q06652|GPX4\_CITSI | MASQSKTSVHDFTVKDAKGQDVDLSIYKGKLLLIVNVASQCGLTNSNYTELSQLYDKYKNQGLEILAFPCNQFGAQEPGDNEQIQEFACTRFKAEFPIFDKVDVNGDNAAPLYKHLKSSKGGLFGDSIKWNFSKFLVDKEGNVVERYAPTTSPLSIEKDIKKLLETA |
| 1994 | sp|Q8SSH7|GPX\_ENCCU | MERGMESEAFYGLSARGWDGSEVSLGSFRGCVIMIANVASSCKFAESNYKSFAGLLDKFYRKGLRILLFPCNQYLGQESRPIEEIRGEVSKKYSDRFVVFDKVDVFGKGAHPVFRHLVNTKNGKGRLGNFIKWNFTKFLVDRKGCVVKRFGPSDIVKEDDENLLRSIEDGENGMQNS |
| 1995 | sp|Q0BLK5|GRPE\_FRATO | MSKQEKSNVEDKSLDIETAAQVETAQESASGALEELSVEEQLERAKDTIKELEDSCDQFKDEALRAKAEMENIRKRAERDVSNARKFGIEKFAKELLPVIDSIEQALKHEVKLEEAIAMKEGIELTAKILVDILKKNGVEELDPKGEKFDPNLHEAMAMIPNPEFEDNTIFDVFQKGYMLNGRIVRAAKVVIVKN |
| 1996 | sp|Q0VST7|GRPE\_ALCBS | MSEQEKDQNNAEPQVETVEEQQAAAAAEAVEPTAEEKLAEVEVELAKVKKALAEADVRAQAEVQNVRKRAERDVQHARKFALEKFAGDLLSVADNLERGLAALDAEDDALKGAREGIELTLKSLLDAFARYNIEQINPADEPFNPELHEAMTMVPVPNVDPNSVIEVLEKGYQLNGRLIRPARVVVSKAP |
| 1997 | sp|Q7NXI4|GRPE\_CHRVO | MQFRGNVMQENQNQAAEAVENEMTETASAAHTELEQTPEQRIAGLEAEIAELNDTLLRARAELENQRRRAQDEVAAAHKYAIGKFAAELVTVKDYLEMALLDQSGQIDALKMGVDMTLKQLVSAFDKAQIKDIAPKLGDKLDPHQHQAMSAEESDAEPNTVVRVMQKGYLLADRVLRPAMVVVAKAKA |
| 1998 | sp|A3CQC3|GRPE\_STRSV | MAKHKQEEHPEDVEVKEEAVETAEQAESASPEKSELELANERAEDFENKYLRAHAEMQNIQRRANEERQQLQRYRSQDLAKAILPSIDNLERALAVEGLTDDVKKGLEMVQESLIHALKEEGIEEIPADGAFDHNYHMAIQTVPADDEHPADTIAQVFQKGYKLHDRILRPAMVVVYN |
| 1999 | sp|B1AIY7|LON\_UREP2 | MKKPILISRAIVVLPYETTTIEVGRPKSIQAIDLAKQSSSKEIIIISQKDIDTDEVVNFDELYKVGTLVKIKSIIDNFDEGYSIEVEGLKAVYINNENDVIDAIEYEYEDVITNPILSNKDEIAINGINSEIFNIINKRSRHKNINFDNMHALISLEKEKFAYLAAATYINDYDNEISEKTIEDRINILLQPNLLLVHETILHLLFDQLVDKRVIEDEVEKTITDKINNNFQKQQREFYLREKLKVVKEQLGELSSREEDADKIRAKIEDLELPPNVKERALAELNRFENAMSSNESSVIKSYLDWLLDLPWTQQGVDNTDLMSVRTHLDDNHYGIEKVKERILEYLALRMRNPNLKGPIICLVGPPGVGKTSLVTSIAQALNKKFVKVSLGGVRDESEIRGHRKTYVGAMPGRIIKGMKKAGVINPLFLLDEIDKMTSDQRGDPAAAMLEVLDPEQNKNFSDNYIEEEYDLSKVMFMATANYYQQIPYALIDRLEVIELSSYTAIEKREIAKSHLLKRIFMDAKLNENELIFTDDALDFIINHYTKEAGVRELDRQLGHIVRKYIVETYKNKNNQSPLNLKVDEAMIIKYLGKIKFDFNKKEETTIPGIVNGMAYTAAGGDLLPIEVNHSTNGKGGNVTITGNLEKTMNESVSVALGFVKANADKYGIDTKKVSFKEIDIHVHVPSGGIPKDGPSAGIAITTAIISSLSQRPVRTTLSMTGEIMLRGNVGIIGGVKEKVISAYRAGVREIILPIDDERYLEDVPKYILDDIKIHLVKHYDEVYNIVFGEK |
| 2000 | sp|Q72KS4|LON1\_THET2 | MKDFLRLELPVLPLRNTVVLPHTTTGVDVGRLKSKRAVEEALSADRLLFLVTQKDPEVDDPAPEDLYAVGTLAVVKQAMRLPDGTLQVMVEARSRARLLSYVAAPYLRAVGEAIPEPPLKDPELARVLVNEVQEAFERYLQNHKTLRLDRYQQEAVKSTRDPAILADLVAHHATWTLEEKQTILETPEVEERLKRVLALLLRDLERFELDKKIAARVKEQMDQNQREYYLREQMKAIQKELGGGEDFLTEIEELRERIEKKGMPEPVKEKALKELKRLERMQPGSPEATVSRTYLDWLLEVPWTEADPEVLDISVTKRVLDEDHYGLKEVKERILEYLAVRQLTQGKEVKGHAPILCFVGPPGVGKTSLGKSIARSMNRRFHRISLGGVRDEAEIRGHRRTYIGALPGKIIQGMKQVGVVNPVFLLDEIDKLSSDWRGDPAAALLEVLDPEQNHTFTDHYLDVPYDLSKVFFITTANTLSTIPRPLLDRMEVIEIPGYTLHEKRAIARYFRWPFQVKEAGLEGRLEITDRAIERIVQEYTREAGVRNLDRELSKVARKAAKDYLEKPWEGVRVVDAEDLEAYLGVPKYRPDRAEKEPQVGAAQGLAWTPYGGTLLTIEAVAVPGTGKVNLTGNLGEVMKESAHAALTYLRAHREEWGLPEGFHKDYDLHIHVPEGATPKDGPSAGITIATALASALTGRPVRMDIAMTGEITLRGRVLPIGGVKEKLLAAHQAGIHRVILPKENAAELKEVPEEILKDLEIHFVEEVGEVLKLLLLPPPPPPAVQPDRPQPGVGA |
| 2001 | sp|Q9LSR8|LRK19\_ARATH | MARWLLQILIISSLHLSSVSSQQETSFVYESFLDRQNLYLDKSAIVLPSGLLQLTNASEHQMGHAFHKKPIEFSSSGPLSFSTHFVCALVPKPGFEGGHGIVFVLSPSMDFTHAESTRYLGIFNASTNGSSSYHVLAVELDTIWNPDFKDIDHNHVGIDVNSPISVAIASASYYSDMKGSNESINLLSGNPIQVWVDYEGTLLNVSVAPLEVQKPTRPLLSHPINLTELFPNRSSLFAGFSAATGTAISDQYILWWSFSIDRGSLQRLDISKLPEVPHPRAPHKKVSTLIILLPVCLAILVLAVLAGLYFRRRRKYSEVSETWEKEFDAHRFSYRSLFKATKGFSKDEFLGKGGFGEVYRGNLPQGREIAVKRVSHNGDEGVKQFVAEVVSMRCLKHRNLVPLFGYCRRKRELLLVSEYMPNGSLDEHLFDDQKPVLSWSQRLVVVKGIASALWYLHTGADQVVLHRDVKASNIMLDAEFHGRLGDFGMARFHEHGGNAATTAAVGTVGYMAPELITMGASTGTDVYAFGVFMLEVTCGRRPVEPQLQVEKRHMIKWVCECWKKDSLLDATDPRLGGKFVAEEVEMVMKLGLLCSNIVPESRPTMEQVVLYLNKNLPLPDFSPYTLGIGTFAPVLVDASSLVVSSASWSLSGPSMSSSSPNHSPYAWQSTDQPWGQTIDTKNSLHIVAEPEKPSPAVKMVTLPAEDPQSNHSSISSQRVQPVKREKRRLHQILVAFPWINKQYFKLGLPKHIVHVSLFFFLQLARL |
| 2002 | sp|Q8YHC6|LON\_BRUME | MTGIEQKTPVGGSETGGADGLYAVLPLRDIVVFPHMIVPLFVGREKSIRALEEVMGVDKQILLATQKNAADDDPAPDAIYEIGTIANVLQLLKLPDGTVKVLVEGTARAKISKFTDREDYHEAYAAALQEPEEDAVEIEALARSVVSDFENYVKLNKKISPEVVGTASQIDDYSKLADTVASHLAIKIPEKQEMLSVLSVRERLEKALSFMEAEISVLQVEKRIRSRVKRQMEKTQREYYLNEQMKAIQKELGDSEDGRDEVAEIEERITKTKLSKEAREKALAELKKLRSMSPMSAEATVVRNYLDWLLSIPWGKKSKVKQDLNFAQEVLDAEHFGLGKVKERIVEYLAVQARSTKIKGPILCLVGPPGVGKTSLARSIAKATGREYVRMSLGGVRDEAEIRGHRRTYIGSMPGKVIQSMKKAKKSNPLFLLDEIDKMGQDFRGDPSSAMLEVLDPKQNATFMDHYLEVEYDLSNVMFVTTANTMNIPGPLLDRMEIIRIAGYTEDEKLEIAKRHLLPKAIKDHALQPKEFSVTEDALRNVIRHYTREAGVRSLEREVMTLARKAVTEILKTKKKSVKITDKNLSDYLGVEKFRFGQIDGEDQVGVVTGLAWTEVGGELLTIEGVMMPGKGRMTVTGNLRDVMKESISAAASYVRSRAIDFGIEPPLFDKRDIHVHVPEGATPKDGPSAGIAMVTAIVSVLTGIPVRKDIAMTGEVTLRGRVLPIGGLKEKLLATLRGGIKKVLIPEENAKDLAEIPDNVKNNLEIVPVSRVGEVLKHALVRQPEPIEWTEQENPTAVPPVEDEAGASLAH |
| 2003 | sp|P23493|MBR1\_YEAST | MRMEKTTDKPLSAGDMNDEYSRGPIDDIDCLNFFERAVQDPCCEACDTEDADEELRAKLSSFNFQPDSSPCNAKCQQTLNPLCKIDEALPAESELAPSRNGSVSEANSDTNSIASTVHDPVDSKYGGMPSLRKAKTTSYFTSSSSNNTTMRNPLKKCNTNINGLLVNGRSSSSSRQSIPELFSGACTKKKNNVLLKSETPNSEFSSNSLQHCNSRSFSLPRSRSRSSAIAIPTHLYGLEKYVSPGLDTLTADPEESIERFSNNRPREISSCCPNDTGDTSSSLSHSNTSSSLNFPLGTNTNQFHQPRQPVQQQQSSKPNFGAGRKKSFIEMSLASSFAG |
| 2004 | sp|Q39008|M3K1\_ARATH | MDRILARMKKSTGRRGGDKNITPVRRLERRDAARNINYDAASCSSSSAEDLSVSTSSLMTRSLEFPEPTSFRIGGGVGEMDRIYRSLGVSGPDDLAISFDAWEACKKRSSSDVVNRFKSFDLDKVRDQDLSEEGPSGVVVGSDSMNHKVQGQDLSEAGPSGGIVTELSEIGNLITPVDRLVADGVVENRRVMERTPTIVKSKGYLVPNNVVAVGVGVGGGIKGLRPPVLKPPPAMKRPPIDHRGSSWDFLTHFAPSETVKRPSSSSSSSEDGCDEEEGKEEEAEAEEMGARFIQLGDTADETCSFTTNEGDSSSTVSNTSPIYPDGGAIITSWQKGQLLGRGSFGSVYEGISGDGDFFAVKEVSLLDQGSQAQECIQQLEGEIKLLSQLQHQNIVRYRGTAKDGSNLYIFLELVTQGSLLKLYQRYQLRDSVVSLYTRQILDGLKYLHDKGFIHRDIKCANILVDANGAVKLADFGLAKVSKFNDIKSCKGTPFWMAPEVINRKDSDGYGSPADIWSLGCTVLEMCTGQIPYSDLEPVQALFRIGRGTLPEVPDTLSLDARLFILKCLKVNPEERPTAAELLNHPFVRRPLPSVGSGGSGSASPLLRR |
| 2005 | sp|Q9WUI1|MK11\_MOUSE | MSGPRAGFYRQELNKTVWEVPQRLQGLRPVGSGAYGSVCSAYDARLRQKVAVKKLSRPFQSLIHARRTYRELRLLKHLKHENVIGLLDVFTPATSIEDFSEVYLVTTLMGADLNNIVKCQALSDEHVQFLVYQLLRGLKYIHSAGIIHRDLKPSNVAVNEDCELRILDFGLARQADEEMTGYVATRWYRAPEIMLNWMHYNQTVDIWSVGCIMAELLQGKALFPGNDYIDQLKRIMEVVGTPSPEVLAKISSEHARTYIQSLPPMPQKDLSSVFHGANPLAIDLLGRMLVLDSDQRVSAAEALAHAYFSQYHDPDDEPEAEPYDESVEAKERTLEEWKELTYQEVLSFKPLEPSQLPGTHEIEQ |
| 2006 | sp|P12670|NP24\_SOLLC | MGYLTSSFVLFFLLCVTYTYAATIEVRNNCPYTVWAASTPIGGGRRLNRGQTWVINAPRGTKMARIWGRTGCNFNAAGRGTCQTGDCGGVLQCTGWGKPPNTLAEYALDQFSNLDFWDISLVDGFNIPMTFAPTKPSGGKCHAIHCTANINGECPRALKVPGGCNNPCTTFGGQQYCCTQGPCGPTELSKFFKKRCPDAYSYPQDDPTSTFTCPGGSTNYRVVFCPNGVADPNFPLEMPASTDEVAK |
| 2007 | sp|P45850|OXO1\_HORVU | SDPDPLQDFCVADLDGKAVSVNGHTCKPMSEAGDDFLFSSKLTKAGNTSTPNGSAVTELDVAEWPGTNTLGVSMNRVDFAPGGTNPPHIHPRATEIGMVMKGELLVGILGSLDSGNKLYSRVVRAGETFVIPRGLMHFQFNVGKTEAYMVVSFNSQNPGIVFVPLTLFGSDPPIPTPVLTKALRVEAGVVELLKSKFAGGS |
| 2008 | sp|P0AA20|OMPR\_SALTI | MQENYKILVVDDDMRLRALLERYLTEQGFQVRSVANAEQMDRLLTRESFHLMVLDLMLPGEDGLSICRRLRSQSNPMPIIMVTAKGEEVDRIVGLEIGADDYIPKPFNPRELLARIRAVLRRQANELPGAPSQEEAVIAFGKFKLNLGTREMFREDEPMPLTSGEFAVLKALVSHPREPLSRDKLMNLARGREYSAMERSIDVQISRLRRMVEEDPAHPRYIQTVWGLGYVFVPDGSKA |
| 2009 | sp|Q0JD85|PAP7\_ORYSJ | MAAASVLLLLPSPFLRPSSPAHRARCGIATTTTTSTSGRRGLFLFASRCRPGPRRRAASAAVPPEHGLSQPQPQARAVGSYEAALGDAKDALYAALEGMNRGIFGMTSEKRSEIHALVELLESKNPTPEPTDKLQDKVDGCWRLVYSTISILGKKRTKLGLRDFISLGDFFQMIDVKEEKAVNVIKFSARALKILSGQLTIEASYKITTKTKVDITLDSSTITPDQLMNIFQKNYDMLLAIFNPEGWLEITYVDESLRIGRDDKANIFVLERADPSEV |
| 2010 | sp|Q99LX0|PARK7\_MOUSE | MASKRALVILAKGAEEMETVIPVDVMRRAGIKVTVAGLAGKDPVQCSRDVMICPDTSLEDAKTQGPYDVVVLPGGNLGAQNLSESPMVKEILKEQESRKGLIAAICAGPTALLAHEVGFGCKVTTHPLAKDKMMNGSHYSYSESRVEKDGLILTSRGPGTSFEFALAIVEALVGKDMANQVKAPLVLKD |
| 2011 | sp|O75807|PR15A\_HUMAN | MAPGQAPHQATPWRDAHPFFLLSPVMGLLSRAWSRLRGLGPLEPWLVEAVKGAALVEAGLEGEARTPLAIPHTPWGRRPEEEAEDSGGPGEDRETLGLKTSSSLPEAWGLLDDDDGMYGEREATSVPRGQGSQFADGQRAPLSPSLLIRTLQGSDKNPGEEKAEEEGVAEEEGVNKFSYPPSHRECCPAVEEEDDEEAVKKEAHRTSTSALSPGSKPSTWVSCPGEEENQATEDKRTERSKGARKTSVSPRSSGSDPRSWEYRSGEASEEKEEKAHKETGKGEAAPGPQSSAPAQRPQLKSWWCQPSDEEEGEVKALGAAEKDGEAECPPCIPPPSAFLKAWVYWPGEDTEEEEDEEEDEDSDSGSDEEEGEAEASSSTPATGVFLKSWVYQPGEDTEEEEDEDSDTGSAEDEREAETSASTPPASAFLKAWVYRPGEDTEEEEDEDVDSEDKEDDSEAALGEAESDPHPSHPDQRAHFRGWGYRPGKETEEEEAAEDWGEAEPCPFRVAIYVPGEKPPPPWAPPRLPLRLQRRLKRPETPTHDPDPETPLKARKVRFSEKVTVHFLAVWAGPAQAARQGPWEQLARDRSRFARRITQAQEELSPCLTPAARARAWARLRNPPLAPIPALTQTLPSSSVPSSPVQTTPLSQAVATPSRSSAAAAAALDLSGRRG |
| 2012 | sp|P0A0P3|PRMA\_STAAM | MNWTELSIIINHEAVELATNILENHGSNGVVIEDSDDLINQPEDKYGEIYALKKEDYPDKGVRLKAYFNEMTYDDKLRQQIKDELLNLDELDQHNIQFSEQIIAETDWENEWKNYFHPFRASKKFTIVPSWETYAKEADEELCIELDPGMAFGTGDHPTTSMCLKAIETYVLPQHSVIDVGTGSGILSIASHLIGVKRIKALDIDEMAVSVAKENFRRNHCETLIEAVPGNLLKDETEKFDIVIANILAHIIDEMIEDAYNTLNEGGYFITSGIIKEKYEGIQSHMERVGFKIISEQHDNGWVCLVGQKVSE |
| 2013 | sp|Q32JJ5|LON\_SHIDS | MNPERSERIEIPVLPLRDVVVYPHMVIPLFVGREKSIRCLEAAMDHDKKIMLVAQKEASTDEPGVNDLFTVGTVASILQMLKLPDGTVKVLVEGLQRARISALSDNGEHFSAKAEYLESPTIDEREQEVLVRTAISQFEGYIKLNKKIPPEVLTSLNSIDDPARLADTIAAHMPLKLADKQSVLEMSDVNERLEYLMAMMESEIDLLQVEKRIRNRVKKQMEKSQREYYLNEQMKAIQKELGEMDDAPDENEALKRKIDAAKMPKEAKEKAEAELQKLKMMSPMSAEATVVRGYIDWMVQVPWNARSKVKKDLRQAQEILDTDHYGLERVKDRILEYLAVQSRVNKIKGPILCLVGPPGVGKTSLGQSIAKATGRKYVRMALGGVRDEAEIRGHRRTYIGSMPGKLIQKMAKVGVKNPLFLLDEIDKMSSDMRGDPASALLEVLDPEQNVAFSDHYLEVDYDLSDVMFVATSNSMNIPAPLLDRMEVIRLSGYTEDEKLNIAKRHLLPKQIERNALKKGELTVDDSAIIGIIRYYTREAGVRGLEREISKLCRKAVKQLLLDKSLKHIEINGDNLHDYLGVQRFDYGRADNENRVGQVTGLAWTEVGGDLLTIETACVPGKGKLTYTGSLGEVMQESIQAALTVVRARAEKLGINPDFYEKRDIHVHVPEGATPKDGPSAGIAMCTALVSCLTGNPVRADVAMTGEITLRGQVLPIGGLKEKLLAAHRGGIKTVLIPFENKRDLKENPDNAKADQDRHPVKNNEEEQTLSLQNYPSVFLFFFFFFFEAIEAFNRFTAAGLKIACPAAILSLN |
| 2014 | sp|Q9Z9F4|LON\_CHLPN | MDSTTNSDSPILDPNPEDVEKLLDESEEESEDQSTERLLPSELFILPLNKRPFFPGMAAPILIESGPYYEVLKVLAKSSQKYIGLVLTKKENADILKVSFNQLHKTGVAARILRIMPIEGGSAQVLLSIEERIRIIEPIKDKYLKARVSYHADNKELTEELKAYSISIVSVIKDLLKLNPLFKEELQIFLGHSDFTEPGKLADFSVALTTATREELQEVLETTNMHDRIDKALILLKKELDLSRLQSSINQKIEATITKSQKEFFLKEQLKTIKKELGLEKEDRAIDIEKFSERLRKRHVPDYAMEVIQDEIEKLQTLETSSAEYTVCRNYLDWLTIIPWGIQSKEYHDLKKAEIVLNKDHYGLDEIKQRILELISVGKLSKGLKGSIICLVGPPGVGKTSIGRSIAKVLHRKFFRFSVGGMRDEAEIKGHRRTYIGAMPGKMVQALKQSQAMNPVIMIDEVDKIGASYHGDPASALLEVLDPEQNKDFLDHYLDVRVDLSNVLFILTANVLDTIPDPLLDRMEILRLSGYILEEKLQIAKKYLVPKARKEIGLTASEVNFQPEALKYMINNYAREAGVRTLNGNIKKVLRKVALKIVQNQEKPKSKKITFKISSKNLQTYLGKPIFSSDRFYESTPVGVATGLAWTSLGGATLYIESVQVSSLKTDMHLTGQAGEVMKESSQIAWTYLHSALHRYAPGYTFFPKSQVHIHIPEGATPKDGPSAGITMVTSLLSLLLETPVVNNLGMTGEITLTGRVLGVGGIREKLIAARRSRLNILIFPEDNRRDYEELPAYLKTGLKIHFVSHYDDVLKVAFPKLK |
| 2015 | sp|Q8IPJ3|LUBEL\_DROME | MTTHQLLNKNVRTMPSWVMEANDRIGPKPPPTPPNGVAGGLPKAPALPPKAKSTPEPDYEIIEFSSQQYSNEPMKTTVIRTKTPDNKLKCTLCGSQNPWVTCAECAGQIFCASCDDMFHKHPKRKQHMRKAVEQGTPPIPPKAQAGGGAPPPVAPPRRSKRGLLTPFLGRKDQMLPPPSPTPSHKSLGGWRGSLGGGATPPVPPIATSSANQMNNRPLPDPPRSEGGGSSRSGTPKSVFDTIQRPPSVQLEKIKSKASATLDRMAILQQRYRQQKARQDLSANSEQHLSNEAGFEHWSNISPSPSHFRSGSMSSGLNSSHFDLSDDSQFHNSLLLQQRQAAGAQRRQMSTSVFNLNSNPRRPLSEAQNGGAWLANQRIQQAQSLAQLNCAGCQQSQQHPGWAQHPHQALPQHQHPDQWSQFGSQQQFNNSNLSLNVGPGYMSQQHHPHYPPPVFMTQRGMMPNVYPGAPGYPMMHPGVMGMPPSAASRAASRSRYAASPTPSRKSMSLRRKRNSYVDDELTDDEDSDQDDRRSLVSNRSGMTSASRSQHHQNHIQPRQRRLSSASQLIASDELDGDQVHHKMRNRRGSIAKSVQSEWLPERRENEGTLTRNKTATDSARTSRIYSDLESEGSGARALVQAKIQQKLQEADQHKSSKKAEPKRKPEMKDENTQAAAVVQKVVVPPAHEESASEYEEVVEEVTASESEAEAQTAPDPQEVPDEIGADDLGPPPSTPDHEWECEFCTFVNEPNIKICSICCKTPSKPPVQPNKAKKVEEKPQPPAEKSNNIKASSKTETKPVQKPTTKSQQPSQKSVAALSKTTHTNSTSSSKASPAVNSKTTSSIPIKTPSKSTLKTSSENESDNSLAKSLLHKESVENIWNTLDESIQAQAEQVLKKAQKVSTACGGTPPREIAAVEMGTSPPPQSISTQTYDALPFNTKQEEIIPVVPDRFTTPEPNKMERRPHYRSNSQLQQESERYRSANDLRYHDGFGLDPYSAGLVTKRPNFINELRMLQLQVSSPFDMPHETFGVKHEPARDPETEMHIILKELELYKFTVEELEAALKYCSPETHPIQWLRENWHKLVQTVQSLSTKYGQERGENTIGTVSQNEAREALRNSGGNVWQAVADCIQQRQQKYRKLAAKGNFLRDDIVNALTAHQGNVEQALVELNRTQLKPFLMRIWGSPNGVENESGVAIDTKSDIHDFLNTHALDCLQPPLAGQSPSPAQANPFDQPRTDESPVKSTYATPSPYQMEDSTLKNLEILIGNMEQNQAKQNQEVLRSIETMLDTFKGKPELEYETDPEIMRILTKSPISTMKPSGPAEDKSTDDVKNFVWQHIQEIVPNLVQQVEQELMEKPEEVAKIEAEQPKEPEPLLEPQPEPTPSVDPAVYIMEEVIKPNLREASIREEVQPSFIYATEIANFKLEFDRGTERWHEAEWESSDLTDAERIVYKCYMAPNEQPKEDVVDVAVESSVNSLPTAKAQEESAPEVPIEAQKIENTEVTQPETVNEELRQQEKLETPLVITSETISETVSQTANESDKQKSIENNLQIKQNVAEVQVQSDDQPSTSRDANRRAKRSQQSRKGRSREQSQKPTNRTKLPNNIDQKVNESKTAAKETEAVKDKDLSAAASNIQSDVTASDPKTSTPLKILSEGTNSNTLETMENVTSTDINDNVTIEVISNRSEEVPAIQDLGKTKDISEPTANPIEEITSIQNSTTISEQSEGPQEPEIPIEVSETTEALQVPREEASIEIVSPPNEEQTKSPTSQEVNIQDTSHIISLPITDVTPTPEIINIAPSTSSISKEQKQSPKRLSKIPVRTLSSSSLRSESRSSNRTPTANDEIEREETTSQGVPIGETVSSPKSEQLSDNQEVNLVSQETQSKKDTNIVEEPATQPLGLELEEHSPNATAVAVSPTDSDEVFEDAPEFSGSDGTRPHDETASDAELYSLDSDGQRAETKSPEDEVVILLDEESQMESSIAQSESNASLDSHSSESETSKVVLKEFVPSGDPAKQNLSELVEDTQRLIKQMRDEISMDEFESTDEDEYSDEYSDEYDEGEEEEWYDSEGEEEGDFDGEEGNTYNEHASYIEEASTGDEGTEIEDIMEEDEDLADDDEPLQSQIPLDIEPVISPALSVTPTNQETDTIAHTEVVSSTGTRLETELPNPAMESILPSQSVQEDIKVEAIPIQSAPPIADSETRPAEQPVELVLEIPSEVEPTPVEEPTALPITPAPPIVDSESRPVEPPVETVLEEPKKVTPSMKGKTANSGTASKGPSTSSSTKTNKSTVSKIPKPTNEPTNKSNSTPLNKKVPLRSKSFSAPMGISSVKRIQEVYLQKQSSSIATSRVPLKSSPVTKKSINDAISRFNSNQADGPSTSGAAAAAAAALLKPRSQPRIPKKKYHETCFSDDDYETSATEEEQEEPNLAEPQKAEQLKRKMSMPVFRAYPSVQEPVIEDPAILARKYVDQELVTNIAEAQIAATLVSMKFSEDVALWAARECSDLDQAIAMLQQECELCMNSYPMNQMVSMLKCLHKCCKQCAKSYFTVQITDRSINDCSCPFCKLPELSNEAQHEDEHLEYFSNLDIFLKSILDNDVHELFQRKLRDRSLLQDPNFKWCIQCSSGFFARPKQKRLICPDCGSVTCAQCRKPWERQHEGSSCEAYLEWKRENDPELQAQGVQEHLAQNGIDCPKCKFRYSLARGGCMHFTCTQCKFEFCYGCARPFMMGAKCTVSTYCAKLGLHAHHPRNCLFYLRDKIPLQLQFLLKEQNVKFDTEPMQIKDESSSSSKARAQARCPIPLQKETPQGLVDTVCNTEVPDKHAGMCRTHYVEYLAGKVAKAGIDPLPIFDLTDCVQELRRRGIALPERGPWDTDEIYKNMCSEVIKKHIPLKSA |
| 2016 | sp|Q2G0P7|MCSA\_STAA8 | MLCENCQLNEAELKVKVTSKNKTEEKMVCQTCAEGHHPWNQANEQPEYQEHQDNFEEAFVVKQILQHLATKHGINFQEVAFKEEKRCPSCHMTLKDIAHVGKFGCANCYATFKDDIIDIVRRVQGGQFEHVGKTPHSSHKKIALKRKIEEKNEYLKKLIEIQDFEEAAIVRDEIKALKAESEVQHDDA |
| 2017 | sp|Q0JHU7|MB3R2\_ORYSJ | MGAMAMVEQEGCVENRQPLAASSSSVSDGSSYGGGGGGLAQMSPPVSSSANSISGLRRTSGPIRRAKGGWTPEEDETLRKAVEAYKGRNWKKIAECFPYRTEVQCLHRWQKVLNPELIKGPWTQEEDDQIIDLVKKYGPTKWSVIAKALPGRIGKQCRERWHNHLNPEIRKDAWTTEEEQALINAHRIYGNKWAEIAKVLPGRTDNSIKNHWNSSLRKKQDMYNTSNNMVVPKLLVHDKFKDKPKLMAMEGHLDLNKAPIINSKDQPGTAHRSNCSGFLSRSSLPTAQPLTSREASVVDGSAVTLVAQALESDSVRGKGLEIDSVHEKGLEVNSAPDHTGNSWTIQLEAAPSKGEAELSLKNEARSLGPLCYQIPNMEDVVPVSSSLFSDHLTGNHTSEHCGDDILSPAGCTTPPPTKGKLTSQLSVDSILKSAANSFPGTPSILKRRKRDKSTPVSASEMKISGSNTDRFYTPMGMEPATATPESFKTTSFLSLGSLDGSVKSFDVSPQYRARSKRMALTKTVEKQLDFSSDGLDTCGSEILNSSCNNSQSTLSITEAPKLKEKEHAVQLENLTKNFAHTTNLDVT |
| 2018 | sp|A0A0K3AV08|MLK1\_CAEEL | MEQASVPSYVNIPPIAKTRSTSHLAPTPEHHRSVSYEDTTTASTSTDSVPEVRIRSESSQVSRESPPIRASKAFVASYEYEAQKDDELNLPLGAIITLVTVETNEDGWYRGELNGKVGLFPSNYAREVTYKDNLVEFKQDEIMLPVAVRTLSDCQIGHGATATVFKMDIKIKKELQNGRMGEAVGDQMKAALKRFNRHASNFRADVVSTDEQLEQLKREANLVNGLSHNNIVRLLGICLEDPYFGLLLELCEGSSLRNVCRNLNSDAAIPLGVLIDWATQVAEGMEYLTKQGYVHRDLKADNVLVKEEVCLCMDEEMFQYAYCLKCGKRPFDKLQLKITDFGVTRKMTADANRFSTAGTYAWLAPEAFKEGTWSEASDVWSYGVVLWELLTREEPYQGHIPATIAFQIANKGQNLSIGDSCPDRWKKLMQDCWNLEPNFRPKFSTLAISFKQYAKEFKDTHLQRAPSKMAVKELYSECFADKTKEEFEKRFHDLYAGSGDINRKNRHSIAPETKARRLKHHKPKKADITGPTEVKHILSVQKDDKNFRVKTYDQSSTGGTLPRLNERQSTLSLSSPDLFHISNLISGSNTVGHSAHRISRKNAIRHKKNQHRMFESPVVSPTMDDSNTFSTIDNADEVDPNHSKESKKGGTLSRAWAKLPWNKRDSKEDHDERAVAGSISSRSSSTTSSNRLITGQTTRGASAAGLLEIGARSRAQSTADGWEDPNTTKKHKVSPSDKRPVKTTNQTERYVKDLEKDTPLRPAQLPPTHRKSALDQTIPASPNSPDSINNFHPMPLSSRRTTANSSSDGAPCYDALVSHSYGAGHGHKNHFGLSDTIPLFPEEPTHYDMGPGRPFGTNGRAIVNQGGDYYGNISGQNYEGFGHGRSINQSTQYYPVGGGCDDYIPIVQKTVIKPTVGEVGNSPYSENIRCATRNVQNPQYIQCKKNQNPRRIPALPMKIQSESNLVTSGMVFTPRDEQLNGIGNSLSSLSLNEPPDIPAPLPPVVTYPIPASLISPSNRVSMSPPTRMAPVLPLGAMSSPRIMDKEILKNSSVEGTEIY |
| 2019 | sp|A0QBQ9|MPRA\_MYCA1 | MRILVVDDDRAVRESLRRSLSFNGYSVELAHDGVEALDMIASDRPDALVLDVMMPRLDGLEVCRQLRSTGDDLPILVLTARDSVSERVAGLDAGADDYLPKPFALEELLARMRALLRRTKPEDDAESVAMTFSDLTLDPVTREVTRGQRRISLTRTEFALLEMLIANPRRVLTRSRILEEVWGFDFPTSGNALEVYVGYLRRKTEADGEPRLIHTVRGVGYVLRETPP |
| 2020 | sp|O24592|NCED1\_MAIZE | MQGLAPPTSVSIHRHLPARSRARASNSVRFSPRAVSSVPPAECLQAPFHKPVADLPAPSRKPAAIAVPGHAAAPRKAEGGKKQLNLFQRAAAAALDAFEEGFVANVLERPHGLPSTADPAVQIAGNFAPVGERPPVHELPVSGRIPPFIDGVYARNGANPCFDPVAGHHLFDGDGMVHALRIRNGAAESYACRFTETARLRQERAIGRPVFPKAIGELHGHSGIARLALFYARAACGLVDPSAGTGVANAGLVYFNGRLLAMSEDDLPYHVRVADDGDLETVGRYDFDGQLGCAMIAHPKLDPATGELHALSYDVIKRPYLKYFYFRPDGTKSDDVEIPLEQPTMIHDFAITENLVVVPDHQVVFKLQEMLRGGSPVVLDKEKTSRFGVLPKHAADASEMAWVDVPDCFCFHLWNAWEDEATGEVVVIGSCMTPADSIFNESDERLESVLTEIRLDARTGRSTRRAVLPPSQQVNLEVGMVNRNLLGRETRYAYLAVAEPWPKVSGFAKVDLSTGELTKFEYGEGRFGGEPCFVPMDPAAAHPRGEDDGYVLTFVHDERAGTSELLVVNAADMRLEATVQLPSRVPFGFHGTFITGQELEAQAA |
| 2021 | sp|F4IRB4|MYB88\_ARATH | MEETTKQNNMKKKKKILLHSDDSKKKERHIVTWSPEEDDILRKQISLQGTENWAIIASKFNDKSTRQCRRRWYTYLNSDFKRGGWSPEEDTLLCEAQRLFGNRWTEIAKVVSGRTDNAVKNRFTTLCKKRAKHEAMAKENRIACCVNSDNKRLLFPDGISTPLKAESESPLTKKMRRSHIPNLTEIKSYGDRSHIKVESTMNQQRRHPFSVVAHNATSSDGTEEQKQIGNVKESDGEDKSNQEVFLKKDDSKVTALMQQAELLSSLAQKVNADNTDQSMENAWKVLQDFLNKSKENDLFRYGIPDIDFQLDEFKDLVEDLRSSNEDSQSSWRQPDLHDSPASSEYSSGSGSGSTIMTHPSGDKTQQLMSDTQTTSHQQNGGELLQDNGIVSDATVEQVGLLSTGHDVLKNSNETVPIPGEEEFNSPVQVTPLFRSLAAGIPSPQFSESERNFLLKTLGVESPSPYPSANPSQPPPCKRVLLDSL |
| 2022 | sp|P63020|NFUA\_ECOLI | MIRISDAAQAHFAKLLANQEEGTQIRVFVINPGTPNAECGVSYCPPDAVEATDTALKFDLLTAYVDELSAPYLEDAEIDFVTDQLGSQLTLKAPNAKMRKVADDAPLMERVEYMLQSQINPQLAGHGGRVSLMEITEDGYAILQFGGGCNGCSMVDVTLKEGIEKQLLNEFPELKGVRDLTEHQRGEHSYY |
| 2023 | sp|Q4P7L6|OCA1\_USTMA | MLVPPPNYGMVEENFYRSGQPDQLNFPFLEKLGLKSVIWLAPEEPEPGFLDFCVDQNIELHHLGVLYSTNAWDPITEEVVLQALHLLVQPATYPVLVMCNLGRHRTGTVVGCFRKLQRWNLSAILEEYRRFVGGQKYRILNEQFIELFDEELVFGASY |
| 2024 | sp|Q05326|PDC2\_MAIZE | QNSIIFLINNGGYTIEVEIHDGPYNVIKNWNYTGLVEAFHNGEGACYTAKVRTEEELTEALEAALGPKKDCLCFIEVIVHKDDTSKELLEWGSRVSAANSRPPNPQ |
| 2025 | sp|P30704|PHOE\_KLEPN | MKKSTLALMMMGFVASTATQAAEVYNKNANKLDVYGKIKAMHYFSDYDSKDGDQTYVRFGIKGETQINEDLTGYGRWESEFSGNKTESDSSQQKTRLAFAGVKLKNYGSFDYGRNLGALYDVEAWTDMFPEFGGDSSAQTDNFMTKRASGLATYRNTDFFGLVDGLDLTLQYQGKNEGREAKKQNGDGVGTSLSYDFGGTDFAVSAAYTSSDRTNDQNLLARAQGSKAEAWATGLKYDANNIYLATMYSETRKMTPISGGFANKAQNFEAVAQYQFDFGLRPSLGYVLSKGKDIEGVGSEDLVNYIDVGLTYYFNKNMNAFVDYKINQLKSDNKLGINDDDIVALGMTYQF |
| 2026 | sp|P41121|PNP\_PHOLU | MLNPIVRKFQYGQHTVTIETGMMARQATAAVMVNMDDTAVFVTVVGQKKVKAGQDFFPLTVNYQERTYAAGRIPGSFFRREGRPGEGETLVARLIDRPLRPLFPEGFLNEVRIVATVVSVNPQINPDIVAMIGASAALALSGIPFNGPIGAARVGYINDQYVLNPTSDELKNSRLDLVVSGTAGAVLMVESEADLLTEEQMLGAVVFGHDQQQVVIDNINALAAEAGKEKWDWVPEPVNQALHDRVAELAESRLGDAYRITEKQERYAQVDAIKDEVTAALLEQDETLEEAEIHEILGSLEKNVVRSRVLSGEPRIDGREKDMVRALDVRTGVLPRTHGSALFTRGETQALVTATLGTERDAQIIDELMGERTDRFLLHYNFPPYSVGETGMMGSPKRREIGHGRLAKRGVLAVMPKANEFPYTVRVVSEITESNGSSSMASVCGASLALMDAGVPIKAAVAGIAMGLVKEGDNFVVLSDILGDEDHLGDMDFKVAGSCEGISALQMDIKIEGITREIMQVALNQAKGARLHILSVMEQAITTPRDDISQFAPRIHTIKINPDKIKDVIGKGGSVIRALTEETGTTIEIEDDGTVKIAATDGEKAKHAISRIEEITAEIEVGRIYAGKVTRIVDFGAFVAIGGGKEGLVHISQIADKRVEKVADYLQVGQETSVKVLEIDRQGRVRLSIKEATAGTAVEEAPPAPQSAE |
| 2027 | sp|P56148|RADA\_HELPY | MAKKTSLFECQHCGFTSPKWLGKCVQCNAWESFIELNQAQKEVLNTLKKPIPQAQKSVSIAAIEHEEVIKFSSTQSELDIVLGGGIAKGGLYLVGGSPGVGKSTLLLKVASGLAKNQQKVLYVSGEESLSQIKMRAIRLDCIEKELYLLNEINWPVIKANIESENYFACVIDSIQTLYSPEISSAPGSISQVREITFELMRLAKTRDIAIFIIGHITKEGSIAGPRVLEHMVDSVLYFEGDPSRELRILRSFKNRFGPTSEIGLFEMKEQGLVSAKEASSLFFSKEEPMEGSAITITLEGSRALILEIQALVSECSFGSPKRLANGFDTNRLNMLIALLEKKLEIPLNRHDVFINVSGGIKISEPACDLAVIASILSSFKNRKIDNKTAFLGEVSLNGRILEAPNLNARLKEMENYGFLKAILPKKPSQKTSIKCYEANAVGKIVEWM |
| 2028 | sp|P52755|QID3\_TRIHA | MKFLTVAAVFFTAVLAAPGNYPPPPPPTYAPPPPTYTLPPNGNGGGNGNGNGNGNGGGNGNGNGNTNTGGSALCPAGLYSNPQSCATDVLGLADLDCAVPSTTPHDGPNFQSICVANGGKRARCCVLPVLGLGVLCQNPVGTN |
| 2029 | sp|Q9A1K1|RADA\_STRP1 | MAKKKATFICQECGYQSPKYLGRCPNCSAWSSFVEEVEVKEVKNARVSLAGEKSRPVKLKDVDNISYHRTQTDMSEFNRVLGGGVVPGSLILIGGDPGIGKSTLLLQVSTQLANKGTVLYVSGEESAEQIKLRSERLGDIDNEFYLYAETNMQAIRTEIENIKPDFLIIDSIQTIMSPDITGVQGSVSQVREVTAELMQLAKTNNIATFIVGHVTKEGTLAGPRMLEHMVDTVLYFEGERHHTFRILRAVKNRFGSTNEIGIFEMQSGGLVEVLNPSQVFLEERLDGATGSAVVVTMEGSRPILAEVQSLVTPTVFGNARRTTTGLDFNRVSLIMAVLEKRCGLLLQNQDAYLKSAGGVKLDEPAIDLAVAVAIASSYKEKPTSPQEAFLGEIGLTGEIRRVTRIEQRINEAAKLGFTKVYAPKNALQGIDIPQGIEVVGVTTVGQVLNAVFS |
| 2030 | sp|Q92HG1|RADA\_RICCN | MTKKHYICSNCGNISPKWSGQCFDCGVWGSIVEEIISTNQVIVKVGSKQDFDKLSGHVTEQLRIPTPIGEFNRVLGGGLVLGSAILIGGDPGIGKSTLLLQLAASNFASKMNCLYITGEESLDQIKLRAIRLNLTNYNTDILAATNLENIIASIEANKNNIDLIVIDSIQTITTKELSSPPGTVSQIRTCANELVNYAKQNNIIILLSCHVTKDGQLAGPKILEHLVDTVLYFEGDHNNHFRILRSYKNRFGGVGEIGVFEMSGSGLIEVTNPSELFLMQREQNVIGTSIFAGIEGSRPLLMEVQALMVPSNMVTPRRSAVGWDANRLSMILAVLSSRIGLNLANYEVYLSIAGGLKIADPASDLAVTASLISAATGNPVPEHSVFFGEISLSGEIRKTAKAETRIKEAVKLGFNKIICSKFENLTYDFISSVSHLKDLKEIIK |
| 2031 | sp|Q68WI9|RADA\_RICTY | MTRDKKHYICSNCANISHKWSGQCFDCGVWGSIVEEIISTNKSIITGSKQTFDKLSCDVSEPLRISTPISELNRVLGGGLVLGSAILIGGEPGIGKSTLLLQLTASNFESKMRCLYITGEESLDQIKLRAIRLNITNYNTAILAATNLEDIIASIDDNNNNIDLVVIDSIQTITTKELSSPPGTVSQIRTCANELVNYSKQNNIIILLSCHVTKDGQIAGPKILEHLVDTVLYFEGDHNNHFRILRSYKNRFGSIGEIGVFEMSSSGILEVTNHSELFLMKREHNVVGTSIFAGVEGSRPLLMEVQALIVPSNMLTPKRSAVGWDANRLSMILAVLSSRIGLNLANYEIYLSIAGGLKITDPASDLAVAASLISAATSIPLPEHSVFFGEISLSGEIRKTAKAETRIKEAVKLGFNKVICSKLENLTYDFICSCTHLQDLKEIIK |
| 2032 | sp|Q7XBY6|PYL10\_ORYSJ | MEQQEEVPPPPAGLGLTAEEYAQVRATVEAHHRYAVGPGQCSSLLAQRIHAPPAAVWAVVRRFDCPQVYKHFIRSCVLRPDPHHDDNGNDLRPGRLREVSVISGLPASTSTERLDLLDDAHRVFGFTITGGEHRLRNYRSVTTVSQLDEICTLVLESYIVDVPDGNTEDDTRLFADTVIRLNLQKLKSVSEANANAAAAAAAPPPPPPAAAE |
| 2033 | sp|P0A7G6|RECA\_ECOLI | MAIDENKQKALAAALGQIEKQFGKGSIMRLGEDRSMDVETISTGSLSLDIALGAGGLPMGRIVEIYGPESSGKTTLTLQVIAAAQREGKTCAFIDAEHALDPIYARKLGVDIDNLLCSQPDTGEQALEICDALARSGAVDVIVVDSVAALTPKAEIEGEIGDSHMGLAARMMSQAMRKLAGNLKQSNTLLIFINQIRMKIGVMFGNPETTTGGNALKFYASVRLDIRRIGAVKEGENVVGSETRVKVVKNKIAAPFKQAEFQILYGEGINFYGELVDLGVKEKLIEKAGAWYSYKGEKIGQGKANATAWLKDNPETAKEIEKKVRELLLSNPNSTPDFSVDDSEGVAETNEDF |
| 2034 | sp|Q4UN57|CLPB\_RICFE | MNIDKFTAHAKSVIASSQSIAAKNDHQQILPLHLLSSLLSEETGIIQTLINNTGGNINLLKDQVQLELNKIPKVQVEGGGQVYSSAEALKVLEKASSIAKDSGDSFVTIERIFEALTYGNTIAGKILTNNGINSKKLAAAILQFRKGKKADTESAENSYDALKKYGRDVTELAESGKLDPIIGRDEEIRRTVQVLSRRMKNNPVLIGEPGVGKTAIIEGLAQRIFSKDVPESLMNCRIIELDMGALIAGAKYRGEFEERLKAVLGEIKESSGEIILFIDELHLLVGTGKTDGAMDASNLLKPMLARGELHCIGATTLDEYRKYIEKDAALARRFQPVYVSEPTASDTISILRGIKEKYELHHAVRISDSAIVAAATLSNRYITDRYLPDKAIDLIDEACSRMKIELSSKPEELDELDRRIIQIKIELAALKKENDEHSKKKITHLTEELEKLESKSYDMKAKWQAEKSKLQQAQKLKEELERARIDLERAERDANLAKASELKYGIIPEIMKKIQEAESMDNKGLLKEIVSESDIASIISRITGIPIDTMLSSERERLLVMEQKLRESVIGQDEAIKGVSDAVRRSRAGIQDINRPLGSFLFLGPTGVGKTELTKALASFLFDDRNAILRIDMSEYMEKHAISRLIGAPPGYIGYDQGGVLTEAVRRRPYQVILFDEVEKAHPDIFNIMLQILDEGRLTDSQGITVDFKNTIIVLTSNLGAEILVNQKEDEDTYKVKDEVMEYVKAVFKPEFLNRLDEIILFHRLNRNNIHDIVKIQLESLKKILLAQNILLEFDESALNYLAEKGYDPSFGARPLKRLIQREIQNNLAKMILAGEISSGNTVKIAREKEELRIKIID |
| 2035 | sp|Q9ZEA9|CLPB\_RICPR | MNIDKFTAHAKSVIANHQSLAIKNDHQQILPLHLLSSLLSEETGIIQALINNIGGNINLLKDQVQLELNKIPKIQVDGGGQIYYSAEDLKVLEKSSSIAKDSGDSFVTIERIFEALTYDNTIAGKILTNNGINSKKLATAILHLRKGKKADTESAENNYDALKRYGRDVTELAENGKLDPIIGRDEEIRRAVQVLSRRMKNNPVLIGAPGVGKTAIIEGLAQRIFSKDVPETLINCRIIELDIGALIAGAQYRGEFEKRLKAVLSEIKESSGEIILFIDELHLLVGTGKVDGAMDASNLLKPMLARGELHCIGATTLDEYRKYIEKDAALARRFQPVYVGEPSVEDTISILRGIKEKYELHHAVRISDSAIVAAATLSNRYITDRYLPDKAIDLIDEACSRMKIELSSKPEELDELDRRIIQIKIELAALKKENDEHSKKKITSLTEELKKLESKSYDMNTKWQAEKSKLQQAQKLKEELEQARIDLERAERDANLAKASELKYGIIPEIMNKLQEAENMDNKGLLKEIVSESDIASIISRITGIPIDTMLSSERERLLVIEQKLCESVIGQDEAIKGVSDAVRRSRSGIQDINRPLGSFLFLGPTGVGKTELTKALAGFLFDDRNALLRIDMSEYMEKHSISRLIGAPPGYIGYDQGGVLTESVRRRPYQVILFDEVEKAHLDIFNIMLQILDEGRLTDSQGITVDFKNTIIVLTSNLGAEILVNQKEGEDTYKVRDEVMQYVRAVFKPEFLNRLDEIILFHRLNRNNIHDIVKIQLGSLKKILLQQNIILEFDESALNYLAEKGYDPSFGARPLKRLIQREIQNNLAKMILAGEISSGNTVKIRREKEELSINIID |
| 2036 | sp|Q9S1B7|CSPA\_SHEVD | MSDSNTGTVKWFNEDKGFGFLTQDNGGADVFVHFRAIASEGFKTLDEGQKVTFEVEQGPKGLQASNVIAL |
| 2037 | sp|P39158|CSPC\_BACSU | MEQGTVKWFNAEKGFGFIERENGDDVFVHFSAIQSDGFKSLDEGQKVSFDVEQGARGAQAANVQKA |
| 2038 | sp|Q45096|CSPA\_BACCE | MTVTGQVKWFNNEKGFGFIEVPGENDVFVHFSAIETDGFKSLEEGQKVSFEIEDGNRGPQAKNVIKL |
| 2039 | sp|P82956|CLPB\_ACICA | MXFEXFTNRLQQALSDAQSL |
| 2040 | sp|Q1PDI2|DGK4\_ARATH | MESPSIGDSLTARMIPRHSSLDSFGAMKVSLLVNLASIRVSKAELRQRVMLPQYLRIAIRDCILRKDDSFDASSSVAPPLENNALTPEVPLMVFVNPKSGGRQGPLIKERLQNLISEEQVYDLTEVKPNEFIRYGLGCLEAFASRGDECAKEIREKMRIVVAGGDGTVGWVLGCLGELNLQNRLPVPPVSIMPLGTGNDLSRSFGWGGSFPFAWKSAIKRTLHRASVAPISRLDSWNILITMPSGEIVDPPYSLKATQECYIDQNLEIEGEIPPSTNGYEGVFYNYFSIGMDAQVAYGFHHLRNEKPYLANGPIANKIIYSGYGCSQGWFLTHCINDPGLRGLKNIMTLHIKKLDSSEWEKVPVPKSVRAVVALNLHSYGSGRNPWGNLKQDYLEKRGFVEAQADDGLLEIFGLKQGWHASFVMVELISAKHIAQAAAIRLEIRGGDWKDAFMQMDGEPWKQPMTRDYSTFVDIKRVPHQSLVVKGD |
| 2041 | sp|B2RJ90|DNAK\_PORG3 | MGKIIGIDLGTTNSCVSVLEGNEPIVITNSEGKRTTPSVVAFVDGGERKVGDPAKRQAITNPTKTIYSIKRFMGETYDQVSREVERVPFKVVRGDNNTPRVDIDGRLYTPQEISAMILQKMKKTAEDYLGQEVTEAVITVPAYFNDAQRQATKEAGEIAGLKVRRIVNEPTAASLAYGLDKSNKDMKIAVFDLGGGTFDISILELGDGVFEVKSTNGDTHLGGDDFDHVIIDWLAEEFKSQEGVDLRQDPMAMQRLKEAAEKAKIELSSTSSTEINLPYIMPVNGIPKHLVMTLTRAKFEQLADRLIQACVAPCETALKDAGMSRGDIDEVILVGGSTRIPAIQEIVEKIFGKAPSKGVNPDEVVAVGAAIQGGVLTGEVKDVLLLDVTPLSLGIETMGGVMTRLIDANTTIPTKKSEIFTTAVDNQPSVEIHVLQGERSLAKDNKSIGRFNLDGIAPAPRQTPQIEVTFDIDANGILNVTAHDKATGKKQNIRIEASSGLSDDEIKRMKEEAQANAEADKKEKERIDKINQADSMIFQTEKQLKELGDKFPADKKAPIDTALDKLKEAHKAQDVAAIDTAMAELQTALTAAGEELYKNVGAAQGGAQPGPDFGGAQGPSVGDQPSDDKNVTDVDFEEVK |
| 2042 | sp|Q73Q15|DNAJ\_TREDE | MPASKRDYYEVLGVDKKASNDDIKKAYRKLAIKYHPDKNQGDKAAEEKFKEATEAYEILIDEKKRSMYDQFGHAGVDGMSGGGGYDPSAFQGFEDIFGGSFSDIFENLFGGGFSSRSSGFGGRHAGPVRGSNLRYDLQISFVDAVYGKKAELSYTRNEKCSECHGTGSESGSSKRMCPDCKGTGQVRQSTGFFSISRPCPTCGGEGSIIEKPCKKCGGNGLERKKQRIIVTIPAGVENGKRITIPSQGNAGQAGGDYGDLFVFIFVQAHPYFERNGIDLYCAVPISMTQAALGGEINIKSLDEKTLRLKIPAGTQNGKLLRIRGEGVPTGIGRKGDLYIQIQVQIPSKLSSNSKKLLQEISAIEGENENPNLIPLKDLP |
| 2043 | sp|Q04EE1|DNAK\_OENOB | MSKIIGIDLGTTNSAVAVMEGSQPKIITNPDGGRTTPSVVAFKNGEIQVGDVAKRQAIVNPETISSIKRHMGESNYRVKANGKEYRPEEISAMILQYIKKYAEDYLGETVNDAVITVPAYFNDAQRQATKDAGKIAGLNVQRIINEPTAAALAFGLDKLDKDQKILVYDLGGGTFDVSILELGDGVFEVLSTNGDTHLGGDDFDQKVIDWLVEDFKKENGVDLSTDSLALQRLKDEAEKAKKTLSSANEAQILLPFIHQNLNIDKTLTRAQFNQLTADLVERAKGPVQNAMKDAGLSFSDINEVILNGGSTRIPAVQDSVKELTGKEPNHSINPDEAVALGAAIQGAVITGDVKDVVLLDVTPLSLGIETMGGVMTKLIDRNTTIPTSKSQVFSTAANNQPAVDIHVLQGERPMAADNKTLGNFQLTDIPAAPRGVPQIEVSFDIDRNGIVSVSAKDKGTGKSQKITIQNPGNLSEDEINKMVKDAESNEEADKKKKEEVDLHNQVDQLIFSSEKTLSDVGDKLGDSDKKPVQDALDELKKAKDSNNIETLKEKKDALEKAAQALAVKLYQQAGPQSGAAGQTGKAGQAGPNSDGKTGDDGKTVDGDFKEVNPDDKK |
| 2044 | sp|B2IBR4|DNAK\_BEII9 | MGKVIGIDLGTTNSCVAVMEGTTPKVIENAEGARTTPSIVAFTDDGERLVGQPAKRQGVTNPERTFFAIKRLIGRTFEDPMTKKDIGLVPYKITKAPNGDAWVEADGKPYSPSQISAFILQKMKETAESYLGQPVSQAVITVPAYFNDAQRQATKDAGKIAGLEVLRIINEPTAAALAYGLDKKGSGTIAVYDLGGGTFDVSILEIGDGVFEVKSTNGDTFLGGEDFDTRLVEYLADEFKKENGIDLKKDKLALQRLKEAAEKAKIELSSATQTEINLPYITADATGPKHLALKLTRAKFEALVDDLIQKTVEPCRKALKDAGLSAGEVDEVVLVGGMTRMPKVQEIVKQFFGKEPHKGVNPDEVVAIGAAVQAGVLQGDVKDVLLLDVTPLSLGIETLGGVFTRLIDRNTTIPTKKSQVFSTAEDNQTAVTIRVFQGEREMAADNKLLGQFDLVGIPGAPRGVPQIEVTFDIDANGIVNVTAKDKATNKEQQIRIQASGGLSEADIDKMVKEAEQHAAEDKVRRELVDAKNHGEAIIHSTEKSLAEFGTKVAESDKSTIDAAIAALKTELAGENLEGIKAKTDALVQASMKLGEAMYKAGAEGGESAEAPKDDVIDADFKEVGPDDHKKSA |
| 2045 | sp|Q3IYM7|DNAK\_RHOS4 | MAKVIGIDLGTTNSCVAIMDGAQPRVIENSEGARTTPSIVGFTDSERLVGQPAKRQAVTNPSNTVFAVKRLIGRRVGDAEVEKDKKLVPYSIVNGGNGDAWVEVRGEKYSPSQISAFILQKMKETAEAYLGESVTQAVITVPAYFNDAQRQATKDAGKIAGLEVLRIINEPTAAALAYGLDKKDTKTIAVYDLGGGTFDITILEIDDGLFEVKSTNGDTFLGGEDFDMRIVNYLADEFKKEHGVDLTLDKMALQRLKEAAEKAKIELSSSQQTEINQPFISMDRNTGQPLHMVMKLTRAKLESLVGDLIKKSLKPCEAALKDAGVSKSDIDEVVLVGGMTRMPRVVEEVTKFFGKEPHKGVNPDEVVALGAAIQAGVLQGDVKDVVLLDVTPLSLGIETLGGVFTRLIDRNTTIPTKKSQVFSTAEDNQNAVTIRVFQGEREMAADNKLLGQFNLEDIPPAPRGMPQIEVTFDIDANGIVSVSAKDKGTGKSQNITIQASGGLSDEDIEKMVRDAEANAEADKKRRELVETKNQGESLLHSTRKSIEEHGDKVDPSTVEAIELAMGALEEALKSEDAGKIKGGIQNLTEAAMRLGEAIYKASQAEGGATPDEEGPRSVDDDIVDADFEDLGENKRK |
| 2046 | sp|Q5E3A7|DNAK2\_ALIF1 | MGKIIGIDLGTTNSCVAVLDGDTPRVLENAEGERTTASVIAYTDGETLVGQPAKRQAVTNPQNTLFAIKRLIGRRFEDEEVQRDIEIMPFKIVKADNGDAWVEAKGQKMAAPQVSAEVLKKMKKTAEDFLGEEVTGAVVTVPAYFNDAQRQATKDAGRIAGLDVKRIINEPTAAALAYGLDKKGGDRTIAVYDLGGGTFDISIIEIDNVDGEQTFEVLATNGDTHLGGEDFDNRLINYLVSEFEKEQGINLKNDPLAMQRVKEAAEKAKIELSSAQQTDVNLPYVTADATGPKHMNVKVTRAKLESLVEDLVLRSLEPLKVALADADLSVDEITDVILVGGQTRMPMVQAKVAEFFGKEARRDVNPDEAVAMGAAVQGGVLAGDVKDVLLLDVTPLSFGIETMGGVMTKLIEKNTTIPTKADQTFSTAEDNQSAVTIHVLQGERKQATYNKSLGQFNLEGIQPAPRGMPQIEVTFDLDADGILNVSAKDKATGKEQKITIQASGGLTDEEIEAMVQEAEANKDADKKFEELVTARNQADQMIHGTQKQIEEAGDALPADEKEKIEAAIKALEEVKSGNDKEAIDAKTQELMQAAQKLMEIAQQKAQAQQGADAGEQPKQDDDVVDAEFEEVKDK |
| 2047 | sp|P63204|GADE\_ECOLI | MIFLMTKDSFLLQGFWQLKDNHEMIKINSLSEIKKVGNKPFKVIIDTYHNHILDEEAIKFLEKLDAERIIVLAPYHISKLKAKAPIYFVSRKESIKNLLEITYGKHLPHKNSQLCFSHNQFKIMQLILKNKNESNITSTLNISQQTLKIQKFNIMYKLKLRRMSDIVTLGITSYF |
| 2048 | sp|P15442|GCN2\_YEAST | MSLSHLTLDQYYEIQCNELEAIRSIYMDDFTDLTKRKSSWDKQPQIIFEITLRSVDKEPVESSITLHFAMTPMYPYTAPEIEFKNVQNVMDSQLQMLKSEFKKIHNTSRGQEIIFEITSFTQEKLDEFQNVVNTQSLEDDRLQRIKETKEQLEKEEREKQQETIKKRSDEQRRIDEIVQRELEKRQDDDDDLLFNRTTQLDLQPPSEWVASGEAIVFSKTIKAKLPNNSMFKFKAVVNPKPIKLTSDIFSFSKQFLVKPYIPPESPLADFLMSSEMMENFYYLLSEIELDNSYFNTSNGKKEIANLEKELETVLKAKHDNVNRLFGYTVERMGRNNATFVWKIRLLTEYCNYYPLGDLIQSVGFVNLATARIWMIRLLEGLEAIHKLGIVHKCINLETVILVKDADFGSTIPKLVHSTYGYTVLNMLSRYPNKNGSSVELSPSTWIAPELLKFNNAKPQRLTDIWQLGVLFIQIISGSDIVMNFETPQEFLDSTSMDETLYDLLSKMLNNDPKKRLGTLELLPMKFLRTNIDSTINRFNLVSESVNSNSLELTPGDTITVRGNGGRTLSQSSIRRRSFNVGSRFSSINPATRSRYASDFEEIAVLGQGAFGQVVKARNALDSRYYAIKKIRHTEEKLSTILSEVMLLASLNHQYVVRYYAAWLEEDSMDENVFESTDEESDLSESSSDFEENDLLDQSSIFKNRTNHDLDNSNWDFISGSGYPDIVFENSSRDDENEDLDHDTSSTSSSESQDDTDKESKSIQNVPRRRNFVKPMTAVKKKSTLFIQMEYCENRTLYDLIHSENLNQQRDEYWRLFRQILEALSYIHSQGIIHRDLKPMNIFIDESRNVKIGDFGLAKNVHRSLDILKLDSQNLPGSSDNLTSAIGTAMYVATEVLDGTGHYNEKIDMYSLGIIFFEMIYPFSTGMERVNILKKLRSVSIEFPPDFDDNKMKVEKKIIRLLIDHDPNKRPGARTLLNSGWLPVKHQDEVIKEALKSLSNPSSPWQQQVRESLFNQSYSLTNDILFDNSVPTSTPFANILRSQMTEEVVKIFRKHGGIENNAPPRIFPKAPIYGTQNVYEVLDKGGTVLQLQYDLTYPMARYLSKNPSLISKQYRMQHVYRPPDHSRSSLEPRKFGEIDFDIISKSSSESGFYDAESLKIIDEILTVFPVFEKTNTFFILNHADILESVFNFTNIDKAQRPLVSRMLSQVGFARSFKEVKNELKAQLNISSTALNDLELFDFRLDFEAAKKRLYKLMIDSPHLKKIEDSLSHISKVLSYLKPLEVARNVVISPLSNYNSAFYKGGIMFHAVYDDGSSRNMIAAGGRYDTLISFFARPSGKKSSNTRKAVGFNLAWETIFGIAQNYFKLASGNRIKKRNRFLKDTAVDWKPSRCDVLISSFSNSLLDTIGVTILNTLWKQNIKADMLRDCSSVDDVVTGAQQDGIDWILLIKQQAYPLTNHKRKYKPLKIKKLSTNVDIDLDLDEFLTLYQQETGNKSLINDSLTLGDKADEFKRWDENSSAGSSQEGDIDDVVAGSTNNQKVIYVPNMATRSKKANKREKWVYEDAARNSSNMILHNLSNAPIITVDALRDETLEIISITSLAQKEEWLRKVFGSGNNSTPRSFATSIYNNLSKEAHKGNRWAILYCHKTGKSSVIDLQR |
| 2049 | sp|K5BDL0|GGH\_MYCHD | MPHDPSFTPTQLAARAAYLLRGNDLGTMTTAAPLLYPHMWSWDAAFVAIGLAPLSVERAVVELDTLLSAQWRNGMIPHIVFANGVDGYFPGPARWATATLADNAPRNRLTSGITQPPVHAIAVQRILEHARTRGRSTRAVAEAFLDRRWGDLMRWHRWLAECRDRNERGRITLYHGWESGMDNSPRWDSAYANVVPGKLPEYQRADNVIITDPSQRPSDGEYDRYLWLLEEMKAVRYDDERLPSVMSFQVEDVFFSAIFSVACQVLAEIGEDYKRPHADVKDLYLWAERFRAGVVETTDQRTGAARDFDVLAEKWLVTETAAQFAPLLCGGLPHDRERALLKLLEGPRFCGHPDLKYGLIPSTSPVSRDFRPREYWRGPVWPVLTWLFSWCFARRGWAERARLLRQEGLRQASDGSFAEYYEPFTGEPLGSMQQSWTAAAVLDWLG |
| 2050 | sp|Q730M0|GRPE\_BACC1 | MEERNEQVVEEVKEEVKEAQVEEAVTSEDSEESVEEKSEAALLQEKVDELQAKLTETEGRMLRLQADFENYKRRVQMDKQAAEKYRAQSLVSDILPALDNFERAMQVEANDEQMKSLLQGMEMVYRQLLEAMTKEGVEAIEAVGKQFDPHEHQAVMQVEDSEFESNAVVEEFQKGYKLKDRVIRPSMVKVNQ |
| 2051 | sp|A1WAR5|GRPE\_ACISJ | MSENQNPPPSPEEIEAAMSANAADELNRLQGELAELKAKSADLADQFLRAKAEAENARRRAEDEVAKARKFGIESFAESLLPVCDSLDAALAIENATAEQLREGSDATLRQLMSALERNKVVIVNPEAGTKFDPHQHQAISMVPADQEANTVVSVLQKGYLIFDRVLRPALVTVAAPK |
| 2052 | sp|P09372|GRPE\_ECOLI | MSSKEQKTPEGQAPEEIIMDQHEEIEAVEPEASAEQVDPRDEKVANLEAQLAEAQTRERDGILRVKAEMENLRRRTELDIEKAHKFALEKFINELLPVIDSLDRALEVADKANPDMSAMVEGIELTLKSMLDVVRKFGVEVIAETNVPLDPNVHQAIAMVESDDVAPGNVLGIMQKGYTLNGRTIRAAMVTVAKAKA |
| 2053 | sp|Q8E7Q8|GRPE\_STRA3 | MAVFNKLFKRRHSVSEEIKKDDLQEEVEATETEETVEEVIEEIPEKSELELANERADEFENKYLRAHAEMQNIQRRSSEERQQLQRYRSQDLAKAILPSLDNLERALAVEGLTDDVKKGLEMTRDSLIQALKEEGVEEVEVDSFDHNFHMAVQTLPADDEHPADSIAEVFQKGYKLHERLLRPAMVVVYN |
| 2054 | sp|B1LCI1|GRPE\_THESQ | MSEKEKKELTQECEELKEKYKELEEYAKRLKAEYENYREEVAREKRELIKNANEYLISKLIPVLDDFERALNQGEKGDAFYEGVKMIYKKLLNVLEKEGLTKIHVGEKFDPFEHEAVERVETEDVEEYTVLEVVESGYKFHGKVLKPAKVKVAVKPRKKEAEKVEEPSDKKE |
| 2055 | sp|Q5A201|GZF3\_CANAL | MSMSDIQQRPQIPTTTTAAVAAAASTNVNTGAATTSTATTGNTPTTTPTSPIENISKVPVKPSVDVPVKPKLEQQQQQQSEQSSKPPPPPPEQQQQHQLPTPPIKPPKTGTTSSSSSTTTSSATSSKISMSGPVCGNCQTQTTPLWRRDETGQVLCNACGLFLKLHGRPRPISLKTDTIKSRNRVKQNGSNSQSSKSSGANTPELKSKEGKSGKKSPKSKKKSLGNGNGNGNSSHDHNTLTPLLPATSNNTPTFKSTTSQSQHQQNQNHHHQHHNHHHHLPNHVLQTHQVPLHYPSSTPTQFAPGLQRITSPLLLSTTSSSSSIRTEPNNNNTSKLTPIQAAAGALENMSNELGPSATFKKGNNINGISLMNKTKKDVSSINGSSTSLSSSSASSSIFSSVAPSTSSSSSLSNGTTINNPAPKLPTLGSKISSPSSQPFTRSTTPLQTLPPLHKIASHESSLPPLHNISTYNNNNSGGGADGGQQSMANYSQTNRSPINGNQDNNNNNNNNNNNNNNGNNNGNNNSNNNGNNFTASAHEVTLLKTRISELELVNDLYRTRIMELEAMEQAARLRENSMKKRLDEVMNLQINYQNLLNNNGGMSSQTQPQPSQQPQQAGQYYSNNNNNNNNDQGSQSISPNVSITGSTTITSPNSRSKIISETTPTHHQQQQGGVGAGDNESIILPPLKRNRTDELTDANGNGNGNDNKKVKI |
| 2056 | sp|O66512|HFQ\_AQUAE | MPYKLQESFLNTARKKRVKVSVYLVNGVRLQGRIRSFDLFTILLEDGKQQTLVYKHAITTIVPHERLEIEFEEAGVPGQG |
| 2057 | sp|Q733C0|HFQ\_BACC1 | MKQSINIQDQFLNQLRKENTFVTLYLLNGFQLRGLIKGFDNFTVLLETEGKQQLIYKHAISTFVPQKNVSIELE |
| 2058 | sp|B1XXK8|HFQ\_LEPCP | MSNKGQLLQDPFLNLLRKEHVPVSIYLVNGIKLQGHIESFDQYVVLLRNTVTQMVYKHAISTVVPGRPVNFHATEAQDSN |
| 2059 | sp|Q187T2|HFQ\_CLOD6 | MKNTVLNLQDLFLNNARKERIPVTIYLVNGVQVKGLVKGFDSYIILIEGDNRQQNMIYKHAVSTIQPGKYINLTNQNQNNNNNNNR |
| 2060 | sp|A5UGS5|HFQ\_HAEIG | MAKGQSLQDPYLNALRRERIPVSIYLVNGIKLQGQIESFDQFVILLKNTVNQMVYKHAISTVVPARSVSHHNNNHHTTPTEAVENVETQAE |
| 2061 | sp|B2SG24|HFQ\_FRATM | MSRISSLQDPFLNALRKEKVNVSVYLVNGIKLQGQVEAFDQFCIVLRNTVNQMVYKHAISTIVPAKSVRMVYSSFNPYHQNSNDEQDENVDDIHSDDLEIQENEGNIHE |
| 2062 | sp|Q0TRD3|HFQ\_CLOP1 | MNKSINNLQDIFLNNARKERIPVTIFLVNGVQLKGIVKGFDSFTVVLDSDGKQQLVYKHAISTVSPAKPILFNNAQVFDN |
| 2063 | sp|P75351|HRCA\_MYCPN | MKNLTTRQAQILKAIINEYIAYPVPVGSKLLTKKYFKNLSGGTLRNEMAVLEKEGYLKKNHISSGRIPSQLGYQYYVKLLTKNDDKSNLKTRLRAIILQKHKTIDEIIELGVKFINEMVNLPVVLTHFSSDEVLKKIDLIMLDQSCALLLLVSASGNVFKKTISYANQRQFEDIMVCVRIFNDRIIDTRFCDIAQHLDVLKEIIRSKVHEYQYVIDEILFKLFNFEEFQQARKQVYGIHYLAQQPEFANQERLTRILNLLEDTSVWQQMAFMNQNNQTTNITFGDKLGLEGEEVSVASTLINTTNESKHQLAIVGPTRMDYQKVKALLLTLKEEIEEYDKQLHGGKTTSST |
| 2064 | sp|A9AUH0|HRCA\_HERA2 | MHLELNERRRRVLKAVIQQYIDTATPVASQDLARSLGVSSATVRNEMAALEDAGLLTHLHTSAGRLPTDAGYRFFVENLMDRAALSTQEQRMIQHQFYQIRSELNQWIHLAAAVLARTAQTAAVVTPPRAYESRFKHIELISINDALVLLVLVLHEGSVKQQTLPADPNTTQEQLSRIAGRINELCHEASAKAIANIAHNQSTNQPPLSSFEVLVIESVARAMQQFEEHVNELIHHDGLLEMLHQPEFGQVTRVREVLSILEGGTMLESLIPQALASDGVQVIIGGEHSRDELRDYSVILSRYGVNGDVAGVVGVLGPRRMAYPRSISSVRYIAGVMSDLMGDLYGERKIEPSE |
| 2065 | sp|A8KYV9|HRCA\_FRASN | MLEERRLEVLRAIVEDFVLSNEPVGSKTLAERHALGVSPATVRNDMSALEEEGYITQPHTSAGRIPTDKGYRLFVDRLSGVKPLSRAERRAIQSFLEGAVDLDDVVRRSVRLLAQLTRQVAVVQYPSLSSSSVRHIEIVTLNPNRLLLVLITDTGRVEQRVVDIPTPVDDGVVGELRGLLNGSLRGRRVVDATEVAADLPETVRPDLRPHLTTLTTVVLEALLERQEERVALAGTANLTRSSVDFADSLRFILEALEEQVVLLKLIGSARETGTVTVRIGRETDVDALRSTSVIATGYGLGPAVLGGMGVVGPMRMDYPGTMAAVRAVAKYVGELLGAD |
| 2066 | sp|Q049W4|HRCA\_LACDB | MLTKRQELILKTIIQDFTKTHEPVGSKTVMNQLSIKVSSATIRNEMAVLEEHGLIEKTHSSSGRVPSTEGYRYYLDNLVQPLQLPEEMYNQIGYQFDQPFNQVDEIVKEAARILSDLTDYTAFAEGPEDKNVSITGFRIVPLAPRQVMAILVISDGSVKNQLYTLPRHISGDEVEQAARLINDQLVGKNLSEINKQTFEQLYSSQIVGKNAPEFLELLESVIKDAASEQMYVDGQLNLLNNIENSDLKAIKSLYELINSSSLAGELIDLSDSPSHYPVHVRLGAELENDLLKDFSLVMAEYSVGRYGRGTIALLGPRHMPYSEMIGLMEYFRQELARKLLDYYGRFK |
| 2067 | sp|Q8PMB2|HRCA\_XANAC | MRASQSPMLDPRARQLLRTLIARYIRDGEPVGSKTLAQHAGLDVSPATIRNILADLEDVGLLSSPHTSAGRVPTAHGYRVFVDSLVQMQPPGEEEVRRLRAELASGNGTQSLLGSASQMLSAMSHFVGVVSAPRREQFAFRHIDFVALDARRVLAILVFADNEVQNRVIEPRRAYEPAELERVANYLNAQFAGRALADIRACLLRELRMAKSEMEQLLAHSVELASEALVPADADDMVMAGQTRLMGVQDLSDLDRLRELFEAFASKREILQLLERTIQAPGVRIFIGEETGMVSLEDVSLVTAPYAANGQVLGVLGVIGPKRMAYDRLIPLVQTAADVLGAAMQSPGAR |
| 2068 | sp|C1CQ16|HRCA\_STRZT | MVTERQQDILNLIIDIFTKTHEPVGSKALQESINSSSATIRNDMAELEKQGLLEKAHTSSGRMPSVAGFQYYVKHSLDFDRLAENEVYEIVKAFDQEFFKLEDILQEAANLLTDLSGCTVVALDVEPSRQRLTAFDIVVLGQHTALAVFTLDESRTVTSQFLIPRNFLQEDLLKLKSIIQERFLGHTVLDIHYKIRTEIPQIIQRYFTTTDNVIDLFEHIFKEMFNENIVMAGKVHLLNFANLAAYQFFDQPQKVALEIREGLREEQMQNVRVADGQESCLADLAVISSKFLIPYRGVGILAIIGPVNLDYQQLINQVNVVNRVLTMKLTDFYRYLSSNHYEVH |
| 2069 | sp|Q0AHZ3|HRCA\_NITEC | MLNERAKILLKTLVERYIHEGQPVGSRSLAKFSGLDLSPATIRNVMTDLEEMGFVSSPHTSAGRMPTTLGYRFFVDTLLVVQSLDNEQITLLENRMHPNNPSHLINVTSRLLSDLTQFVGVVVTPKRMGGAVFRHIEFVPLSEKRILLILVTPEGDVQNRIIFTETVYNQSDLIEAGNFLNQHYAGCALEEIRSGLQHELTQLRRNMTDLMNAAIEIGNAALQESSEAVVIAGEHKLFDVRDLSENLSSLKQLFELFERKSKLLQLMELSRQACGVKIFIGGESDETMLEEISVVTAPYEMEGKIVGTVGVIGPRRMAYERIIPIVDITARLLSNNLS |
| 2070 | sp|A3Q272|HRCA\_MYCSJ | MGSADDRRFEVLRAIVADFVATKEPIGSKTLVERHNLGVSSATVRNDMAVLEAEGYITQPHTSSGRVPTEKGYREFVDRLDDVKPLSSAERRAILKFLETGVDLDDVLRRAVRLLAQLTRQVAIVQYPTLSTSSVRHLEVVALTPARLLLVVITDTGRVDQRIVELGDAIDEHELATLRDLLGQALEGKRLSAASVAVSDLATHLSGSPGMSHRLADAVGRSATVLVETLVEHTEERLLLGGTANLTRNTADFGGSLRSVLEALEEQVVVLRLLAAQQEAGKVTVRIGHETEAEQMAGTSVVTTAYGSSGKVYGGMGVVGPTRMDYPGTIANVAAVALYIGEVLGTR |
| 2071 | sp|Q9ASP6|HNRPQ\_ARATH | MSDARDNDDRVDFEEGSYSEMEDEVEEEQVEEYEEEEEEDDDDDDVGNQNAEEREVEDYGDTKGGDMEDVQEEIAEDDDNHIDIETADDDEKPPSPIDDEDREKYSHLLSLPPHGSEVFIGGLPRDVGEEDLRDLCEEIGEIFEVRLMKDRDSGDSKGYAFVAFKTKDVAQKAIEELHSKEFKGKTIRCSLSETKNRLFIGNIPKNWTEDEFRKVIEDVGPGVENIELIKDPTNTTRNRGFAFVLYYNNACADYSRQKMIDSNFKLEGNAPTVTWADPKSSPEHSAAAAQVKALYVKNIPENTSTEQLKELFQRHGEVTKIVTPPGKGGKRDFGFVHYAERSSALKAVKDTERYEVNGQPLEVVLAKPQAERKHDPSSYSYGAAPTPAPFVHPTFGGFAAAPYGAMGAGLGIAGSFSQPMIYGRGAMPTGMQMVPMLLPDGRVGYVLQQPGMPMAAAPPQRPRRNDRNNGSSGGSGRDNSHEHDGNRGGRRYRPY |
| 2072 | sp|Q730L9|HRCA\_BACC1 | MLTERQLLILQTIIDDFIGSAQPVGSRTLAKKDEITFSSATIRNEMADLEELGFIEKTHSSSGRVPSEKGYRFYVDHLLAPQNLPNDEIVQIKDLFAERIFEAEKIAQQSAQILSELTNYTAIVLGPKLSTNKLKNVQIVPLDRQTAVAIIVTDTGHVQSKTITVPESVDLSDLEKMVNILNEKLSGVPMSELHNKIFKEIVTVLRGYVHNYDSAIKILDGTFQVPLSEKIYFGGKANMLSQPEFHDIQKVRSLLTMIDNEAEFYDILRHKQVGIQVKIGRENSSTAMEDCSLISATYSIGEEQVGTIAILGPTRMQYSRVISLLQLFTRQITDGLKK |
| 2073 | sp|Q3AF11|HRCA\_CARHZ | MIDERKRKILMAIVQDYISTAEPVGSRTIAKKYDLGISPATIRNEMADLEEMGYLEQPHTSAGRIPSVLGYRYYVDYLMEKPSLSREEEEFIRKVYEDKINSIGDLLEKTGKVLSSLTRYTAVVLSPEAGKVPLKHLQLVLLQPGKVLLIIVLEDGTLHHRAFEVPGDITAQDLEKVSAILNAKLYGVNPEKIRYSLIKEIYYELAQHQNLINITLELISNLNQDNQEHKIILGGLINLFNQPEFKNVEKVKTLLSILEQEEKIREIFSQLNVGVNVKIGSELNLKEIEDCSMIAAGYFSYGNSVGFIGVLGPTRMEYAKTVATVEFLSKYLSEIIGNKNF |
| 2074 | sp|B4EDZ7|HRCA\_BURCJ | MLDPRARTLLKTLIERYIADGQPVGSRTLSRYSGLELSPATIRNVMSDLEELGLVSSPHTSAGRIPTPRGYRLFVDTMLTVEAPIDAEAVARQVQNTLQAGEPQQRVVAAAASVLSNLSQFAGVVLTPRRSHVFKQIEFMRLSDKRILLIIVTPEGDVQNRMLATPRDYSPSQLTEASNYINAHFAGLSFDEVRRRLRDEIDQLRGDMTTLMHAAVTASTEVPDTEDTVLISGERNLLEVADLSSDMARLRKLFDVFDQKTGLLQLLDVSSHAQGVQIFIGGESTLVPIEEMSVVTAPYEVNGKIVGTLGVIGPTRMAYNRVIPIVDITARLLSLTLSQQ |
| 2075 | sp|Q9REF2|HRCA\_BRADU | MAHHDPIHLIAPRAGLAQLNERSRDIFRQIVESYLATGEPVGSRNISRLIAMPLSPASVRNVMADLEQLGLIYAPHTSAGRLPTELGLRFFVDALMQVGDLNDAERQSIQSQLTSVGQAQSVEAALDQALTRLSGLTRAAAVVLTPKSNARLKHIEFVRLEPEKALVILVGEDGQVENRVLTLPPGVPSSAITEAGNFLNSRIRGRTLAEARLELETALGEARAELDQLTQKVISAGIASWSGGENEDRQLIVRGHANLLEDLHALEDLERVRLLFDDLETKRGVIDLLGRAETAEGVRIFIGSENKLFSLSGSSTIISPYRDAAGHIVGVLGVIGPTRLNYARVIPTVDYAARIVSRLLGG |
| 2076 | sp|C1C5N5|HRCA\_STRP7 | MVTERQQDILNLIIDIFTKTHEPVGSKALQESINSSSATIRNDMAELEKQGLLEKAHTSSGRMPSVAGFQYYVKHSLDFDRLAENEVYEIVKAFDQEFFKLEDILQESANLLTDLSGCTVVALDVEPSRQRLTAFDIVVLGQHTALAVFTLDESRTVTSQFLIPRNFLQEDLLKLKSIIQERFLGHTVLDIHYKIRTEIPQIIQRYFTTTDNVIDLFEHIFKEMFNENIVMAGKVNLLNFANLAAYQFFDQPQKVALEIREGLREDQMQNVRVADGQESCLADLAVISSKFLIPYRGVGILAIIGPVNLDYQQLINQVNVVNRVLTMKLTDFYRYLSSNHYEVH |
| 2077 | sp|A7GT10|HRCA\_BACCN | MLTERQLLILQTIIDDFIGSAQPVGSRTLAKKDEITFSSATIRNEMADLEELGFIEKTHSSSGRIPSEKGYRFYVDHLLAPQRLSAEEIVQIKDLFAERIFEAEKVAQQSAQILSELTNYTAIVLGPKLSTNKLKNVQIIPLGRKTAVAIIVTDTGHVQSKTITVPESVDLSDLEKMVNILNEKLFGVPMVELHNKIVKEVVTVLHKYVHNYDSAMKILDGTFQVPLSEKIYFGGKANMLAQPEFHDIQKVRSLLEMIDNEAEFYDILRKKQVGIQVNIGRENSSMAMEDCSLISATYSVGEEQLGTIAILGPTRMHYARVITLLQLFTKHFTEGLNGLYKSK |
| 2078 | sp|A9ILE7|HRCA\_BART1 | MKHKPIDNELKYLDERSRDIFRHIVEAYLNDGEPVGSRNLSRLLQQTLSPATIRNVMSDLEHLGLIYAPHVSAGRMPTQSGLRFFVDAFMEAGDLPNEERENIEMQVKEAGHAQSVEHFLVQASRVLSDLSRGAGLVLATKQEGTLKHIEFVRLDREHALAVLVTQQGEVENRIVHLPEGVTHAQLTEATNFLNAHIQGRTLSEAKEEIACLCAETRAALDDLSHHLVETGLALLGGEGADHKIHLIVRGRSNLLEDVKAEEDLERLRHLFDDLETRESMAQLLDLTDEGSGVRIFIGSENKLFSLSGSSLVVAPYRDSQQRVIGALGVIGPTRLNYARIVPMVDYTAQLVSQLLR |
| 2079 | sp|B6HZI2|IRAP\_ECOSE | MKNLIAELLFKLAQKEEESKELCAQVEALEIIVTAMLRNMAQNDQQRVIDQVEGALYEVKPDASIPDDDTELLRDYVKKLLKHPRQ |
| 2080 | sp|B7NGY3|IRAD\_ECOLU | MMRQSLQAVLPEISGNKTSSLRKSVCSDLLTLFNSPHSALPSLLVSGMPEWQVHNPSDKHLQSWYCRQLRSALLFHEPRIAALQVNLKEAYCHTLAISLEIMLYHDDEPLTFDLVWDNGGWRSATLENVS |
| 2081 | sp|P28243|IRAP\_ESCF3 | MKNLISELLIKLAQKEEESKELVAQVEALEIIVTAMLRNMGQPEQKRVIDQIEGALAGVKPDASVPDGDTEMLRAYVKKLLRHPRQ |
| 2082 | sp|B7NJI4|IRAM\_ECO7I | MKWIVIDTVIQPTCGISFSAIWGDMKMIIWYQSTIFLPPGRIFTPVKSGIILKDKEYPITIYNIAPFNKDLWSLLKSSQECPPGESKITNKCLHNSCIIKICPYGLK |
| 2083 | sp|P0AAP0|IRAP\_ECO57 | MKNLIAELLFKLAQKEEESKELCAQVEALEIIVTAMLRNMAQNDQQRLIDQVEGALYEVKPDASIPDDDTELLRDYVKKLLKHPRQ |
| 2084 | sp|P0AB58|LAPB\_ECOLI | MLELLFLLLPVAAAYGWYMGRRSAQQNKQDEANRLSRDYVAGVNFLLSNQQDKAVDLFLDMLKEDTGTVEAHLTLGNLFRSRGEVDRAIRIHQTLMESASLTYEQRLLAIQQLGRDYMAAGLYDRAEDMFNQLTDETDFRIGALQQLLQIYQATSEWQKAIDVAERLVKLGKDKQRVEIAHFYCELALQHMASDDLDRAMTLLKKGAAADKNSARVSIMMGRVFMAKGEYAKAVESLQRVISQDRELVSETLEMLQTCYQQLGKTAEWAEFLQRAVEENTGADAELMLADIIEARDGSEAAQVYITRQLQRHPTMRVFHKLMDYHLNEAEEGRAKESLMVLRDMVGEKVRSKPRYRCQKCGFTAYTLYWHCPSCRAWSTIKPIRGLDGL |
| 2085 | sp|A6U4Y2|LDH2\_STAA2 | MKTFGKKVVLIGDGSVGSSYAFAMVTQGVADEFVIIDIAKDKVKADVQDLNHGTVHSPSPVDVKAGEYEDCKDADLVVITAGAPQKPGETRLQLVEKNTKIMKSIVKSVMDSGFDGYFLIAANPVDILTRFVKEYTGLPAERVIGSGTVLDSARLQYLISQELGVAPSSVDASIIGEHGDTELAVWSQANVAGISVYDTLKEQTGSEAKAEEIYVNTRDAAYEIIQAKGSTYYGIALALMRISKAILNNENNVLNVSIQLDGQYGGHKGVYLGVPTLVNQHGAVKIYEMPLSAEEQALFDKSVKILEDTFDSIKYLLED |
| 2086 | sp|P78025|LON\_MYCPN | MPAVKKPQILVVRNQVIFPYNGFELDVGRERSKKLIKALKNLKTKRLVLVTQKNSDQLNPEFDDIYHCGTLCDIDEIIEVPSEDGKTADYKIKGKGLQRVAITSFSDADLTKYDHHFLNSTLTENKALDKLLERIFPDKEDFAEILDSLNSFLELQELKKLSKVPKDIKRYDIITFKLASLIFKDITLQQAILEENDIEKRLQKIIGSGIEDLGHISEEARAKQRESEFDKIDNRITRKVNEQLSRQQRDFYLREKLRVIREEIGMTSKKEDEVSNIRKKLEENPYPEHIKKRILSELDHFENSSSSSQESTLTKTYIDTLMNLPWWQESKDNADVKNLIKILNKNHSGLDKVKERVVEYLAVQLRTKKLKGPIMCLVGPPGVGKSSLAKSIAEALNKCFVKVSLGGVHDESEIRGHRKTYLGSMPGRILKGMVRAKVINPLFLLDEIDKMTSSNQGYPSGALLEVLDPELNNKFSDNYVEEDYDLSKVMFVATANYIEDIPEALLDRMEVIELTSYTEQEKLQITKSHLVKRCLDDAEIKTDDLKFTDEGISYIIKFYTREAGVRQLERLIQQIVRKYIVNLQKTGEQQVVVDVDLVKKYLKKEIFDYTVRDEDALPGIVNGMAYTPTGGDLLPIEVTHVAGKGDLILTGNLKQTMRESASVALGYVKANAQSFNINPNLFKKVDINIHVPGGGIPKDGPSAGAALVTAIISSLTGKKVDPKIAMTGEITLRGKVMTIGGVKEKTISAYRGGVRTIFMPEKNERYLDEVPKDIVKDLEIILVKEYKDIYNKIFN |
| 2087 | sp|P74956|LON\_VIBPA | MNLERSERIEIPVLPLRDVVVYPHMVIPLFVGREKSISCLETAMETNKQVLLVAQKQADTDEPTVDDLFEVGTVATILQLLKLPDGTVKVLVEGQQRAKINHFKESDFFLAEAEFIVTPELDEREQEVIVRSAINQFEGFIKLNKKIPPEVLTSLNGIDEAARLADTIAAHMPLKLVDKQQVLEIIDVTERLEFLMGQMESEIDLLQVEKRIRGRVKKQMEKSQREYYLNEQMKAIQKELGEMEDAPDEFETLQKKIDESKMPQEAREKTEQELQKLKMMSPMSAEATVVRSYIDWMVSVPWTKRSKVKKNLAKAEEILNEDHYGLERVKERILEYLAVQNRINKLKGPILCLVGPPGVGKTSLGRSIASATGRKYVRMALGGVRDEAEIRGHRRTYIGSLPGKLIQKMSKVGVKNPLFLLDEIDKMSSDMRGDPASALLEVLDPEQNNSFNDHYLEVDYDLSDVMFVATSNSMNIPGPLLDRMEVIRLSGYTEDEKLNIAKRHLVEKQVQRNGLKPNEIVIEDSAIIGIIRYYTREAGVRGLEREISKICRKAVKNILLDKDIKSVTVTMDNLKEYLGVQRFDYGKADESNRIGQVTGLAWTEVGGDLLTIETQSMPGKGKLTQTGSLGDVMQESIQAAMTVVRSRADKLGINSDFYEKKDIHVHVPEGATPKDGPSAGTAMCTALVSALTGNPVKAEVAMTGEITLRGEVLPIGGLKEKLLAAHRGGIKTVLIPKDNERDLEEIPENVIADLQVIPVQWIDEVLKVALERDPTGVEFEAKK |
| 2088 | sp|Q026Q2|LON\_SOLUE | MLTSKEKSDTKRLPMMPIRDVVIFPYMMTPFVVGRESSVRALEEAMAGDKKIFLATQHDASIDEPKPNEIYSVGTIVNIVQSLKLPDGNIKVLVEGVERAKVVSVADDEGFFRATVRTSGFKVETGPQLDALISRVTTLFEQYVKLSQNLNYETMVAAIRVDEPGKLADTVGANLQLTIEEKQELLEIFDPIDRLTRVAEMLDIEIEKLNVDRTIQGRVKRQMEKAQKEYYLNEKIKAIQKELGRGEKSEIDELKRRIEEAGMTADAQEKAMAELKRLENMPPMSAESTVSRNYLDWLLAVPWKKKSKEIRDLKFAEGVLEADHYGLEKIKERILEFLAVRRLVKNPKGSILCFVGPPGVGKTSLGMSIAKATGRKFVRMSLGGVRDEAEVRGHRRTYIGALPGQIIQMMKKAGTRNPVFMLDEVDKMSMDFRGDPSAALLEVLDPEQNFMFVDHYLDVEYDLSQVFFVATANVMHTIPAALQDRMEVIRLSGYTELEKMEIAKRFLVKKQIEATGLDSKQIDFQDDGINSLIQYYTREAGVRNLEREIGNVCRKVARQVVNAESGKDKKAPAKAVINGDKVPELLGPWKFRDLVVEKKNEIGAATGLAWTEVGGQLLTVECTLMEGKGKLTITGKLGEVMQESAQAAMSYIRSRAMSLGIPRDFYRNLDLHIHIPEGAIPKDGPSAGITLATTICSALTKIPVRGDLAMTGEITLRGKVLPIGGLKEKLMAAHRHGILEAIMPKENEKDLPDIPDAIKKTMKLHFVESMDEVLKIALEREIVALPIPGAELPVEAGKPAEETVAH |
| 2089 | sp|P53214|MTL1\_YEAST | MASCNPTRKKSSASSLSMWRTILMALTTLPLSVLSQELVPANSTTSSTAPSITSLSAVESFTSSTDATSSASLSTPSIASVSFTSFPQSSSLLTLSSTLSSELSSSSMQVSSSSTSSSSSEVTSSSSSSSISPSSSSSTIISSSSSLPTFTVASTSSTVASSTLSTSSSLVISTSSSTFTFSSESSSSLISSSISTSVSTSSVYVPSSSTSSPPSSSSELTSSSYSSSSSSSTLFSYSSSFSSSSSSSSSSSSSSSSSSSSSSSYFTLSTSSSSSIYSSSSYPSFSSSSSSNPTSSITSTSASSSITPASEYSNLAKTITSIIEGQTILSNYYTTITYSPTASASSGKNSHHSGLSKKNRNIIIGCVVGIGAPLILILLILIYMFCVQPKKTDFIDSDGKIVTAYRSNIFTKIWYFLLGKKIGETERFSSDSPIGSNNIQNFGDIDPEDILNNDNPYTPKHTNVEGYDDDDDDDANDENLSSNFHNRGIDDQYSPTKSASYSMSNSNSQDYNDADEVMHDENIHRVYDDSEASIDENYYTKPNNGLNITNY |
| 2090 | sp|Q69NX5|NCED4\_ORYSJ | MASSAPSAPGLAPVAKPPPPPSKVKVATATVPTNGKIKQGARPMRVSAPPVEPRRRMNPLQRLAAAAIDAVEEGLVAGLLERGHALPRTADPAVQIAGNYAPVGERPPVRGLPVSGRLPACLDGVYVRNGANPLHAPRAGHHLFDGDGMLHAVRLAGGRAESYACRFTETARLRQEREMGRPVFPKAIGELHGHSGVARLLLFGSRALCGVLDASRGIGVANAGLVYHDGRLLAMSEDDLPYHVRVTHDGDLETVGRYDFHGQLDADGTMIAHPKLDPVTGELFALSYNVVSKPYLKYFYFTADGRKSRDVDIPVGAPTMIHDFAVTENYAVVPDQQIVFKLQEMVRGGSPVVYDREKASRFGVLPKRAADASELRWVEVPGCFCFHLWNAWEDDATGEIVVIGSCMTPPDAVFNEPSQSPEEESFRSVLSEIRLDPRTGVSRRRDVLRDAAEQVNLEAGMVNRQLLGRKTRYAYLAIAEPWPRVSGFAKVDLESGTAEKFIYGEGRYGGEPCFVPRAGAAAEDDGHVLCFVHDEERGTSELVVVDAGSEAMEEVAAVKLPGRVPYGLHGTFIGANELQRQA |
| 2091 | sp|P54550|NAMA\_BACSU | MARKLFTPITIKDMTLKNRIVMSPMCMYSSHEKDGKLTPFHMAHYISRAIGQVGLIIVEASAVNPQGRITDQDLGIWSDEHIEGFAKLTEQVKEQGSKIGIQLAHAGRKAELEGDIFAPSAIAFDEQSATPVEMSAEKVKETVQEFKQAAARAKEAGFDVIEIHAAHGYLIHEFLSPLSNHRTDEYGGSPENRYRFLREIIDEVKQVWDGPLFVRVSASDYTDKGLDIADHIGFAKWMKEQGVDLIDCSSGALVHADINVFPGYQVSFAEKIREQADMATGAVGMITDGSMAEEILQNGRADLIFIGRELLRDPFFARTAAKQLNTEIPAPVQYERGW |
| 2092 | sp|Q3UW53|NIBA1\_MOUSE | MGGSASSQLDEGKCAYIRGKTEASIKNFSPYYSRQYSVAFCNHVRSEVEQQRDLTSQFLKTKPPLEPGTVLYEAELSQFAEDIRKWKDRYIVIKNDFAVESYESKEAYQRGAVPKSRILPAGGKVLTSEEEYSLLSDKHFPDPTASSEKNSQPFVLLPKAFPVYLWQPYLRHGYFCFHEAAEQQKFSALLNDCIRHLNHDYMKQTTFEAQAFLEAVQFFRQEKGHYGSWEMTTGDEVQVLSKLVMEELLPTLQTDLLPKLKGKKNDRKRAWFGLLEEAYNLVQHQVSEGLNALKEECRALTKDLEGTIRSDMDQIVTSKNFLTGKIRAMVAQPAEQCCGESVQPFLASILEELMGPVSSGFSEVRALFEKEVDELSQSFHATQDSAQLKEGLQQLMKLPLDSVKMEPCYTKVTLLPERLLDLQSRFRFPHVDLVVQRTQNYMQELMENAVFTFEQLLSPYLQGEASRIPVAIEKVKLRVLKQYDYDSSTIRKKIFQEALIQITLPTVQKALASTCKPELQKYEQFIFADHTNMIHVENVYEEILYEILLDETLKVITEAAILKKHNLFEDNMALPSESVSSLTDLKTAMGSNQASPARRVSAILPGAPDNELPSNEVFQEPEEKKEQPGVPGSLAISASSCPSGGDGQVSVDHSAGGPLTVENTAGPLSSHLSEVEAGGTLKDEEPTCQSPEPSAVPGSLKELKKLLTVTVSVESAPVVENDIHNGTPVPQENIKEEESKIHPEASHPAAIQQDSCEEREVREKEAQPLEAEAPGVDLGILPEGRGSTSQSTSGGLTENTSCPGPIEEPFEAQEPAEKVLPAIVSTEDSPQAGGEAEHSVTVTPQEDATLSSNPICPMESNEVAQASGDQEVLGGEDSSALGMDTEQVNDTHEHACQWLVEDTLSTDILAVHDFDVSSPEQPSEEW |
| 2093 | sp|Q6BUT3|NST1\_DEBHA | MSETQSDPIDVSKFKNGDDVHFDYNSTTNDQTINSTNVQKKKKKKKSKNKHKGSPNVEATLNDPDVEYPTSRVIKQAPNGDVIIESLDEPSDAHTKSVTANIWDNATLEEQENLKAFWESLDEAQKIELVKIDKKSIMDIFKNESKTVNTSNNHQNNSNTQGGSTSTSGGALNGSSTNVNIPGAPSNSSNGACTCSYCGRKNNFIEDELENIYDNHFDDIIDFIHEVRDINDLNALPGLLFGGFHMLEEEHKLQKRQQKYKYKQERDAHHDHHNHEPGHICSDTGSSGDYDGSTQQDQQHQYEHEIEHAFQEDEHEDECGHKNDHSHSHSHSHTENHNHSHSYDPNHNHSHSHFQYDQIEELNNEDELSQEAVLQKSLDDELNKELGDESNNNQSSIATKEQRVFHKLLDPKLFEALENLDFEKMKDTPANNHSAHILEKAGSLRDIIRDLHKADKVELEKGMAFLQNMGKIFSSDMSNAMNHDTLNDQISNGLSSFAEDLLKNDGNSFIDMMESLSESRTAREDLLKEKFDKEPSAAWIDEDDHTKSDTDISIPKPDLHQVQELEEELNDEYDEVDEDDDEGEEEGEEEEEELDDEEFEEDEEEDASDTESEISEEEKMQEIRRLFLIQVIKLFQERLKNAYKEKLSQDRTRTLIEELEAEENAKKEREMKKLRQKEKAKEKKRLQQLAKEEERRKKEEEQKAKEEELKQKQEALRAEQRRKKEEAKQKREEEKRKRIEELKRKELEHQKRLEAQRKKEEETKKLKDEKKKKIEEERKQKEEEKRQKELQKKLVEEERSKSAKKQDHKETGSSEDISQLSRDLENARLGQNFNIPSPVVPDTLLAQPQEPRVKSPTKNHILDQLYLAKPRSLSNSTNSTPQINNVTPGYIPDLSSNSMLPSVLSPSGHNILPNNGNVNNQAVPSPWSSQAFNANTQAPPVYQPQLSSNAFSPFNSSLSQNSLSSNANENLNTNPLNTTGFNEPFATAAQPSSVWNPGATSRNNSIWSNSPNVASNSTLWGNSVPAPPVGAAVGGNPNSLDSDLIQAAAYQAFQFLQNSNQLEFGVAPSLKLFQTAKTILSNQGLTLNQFLTSCRNTGSLSGYGFDFIYDDFGTVTHIKASSTNIPQQPPHNNVNTQSINSLGLGNAAVNDNESSLLNTLSDINNNPNSFSNGVRGLWN |
| 2094 | sp|A6ZRY1|OCA1\_YEAS7 | MTSKVGEYEDVPEDESRLTEENVSVPEEEVEDEDEEEDDDDDHIYINEETESGREKVLVSHAPQERIVPPLNFCPVERYLYRSGQPSPVNFPFLLNLKLKTIIWLSNEEPQDTLLEFCDTHRINLQFAAINPDAGEDDNPWDGLTEHSIINVLQTIVTQENYPLLVCCGMGRHRTGTVIGCLRRIMGWNLASVSEEYRRFTGSRGGRILVELLIEAFDTNLVKIDKNKAPSWLLTALE |
| 2095 | sp|P0AFF6|NUSA\_ECOLI | MNKEILAVVEAVSNEKALPREKIFEALESALATATKKKYEQEIDVRVQIDRKSGDFDTFRRWLVVDEVTQPTKEITLEAARYEDESLNLGDYVEDQIESVTFDRITTQTAKQVIVQKVREAERAMVVDQFREHEGEIITGVVKKVNRDNISLDLGNNAEAVILREDMLPRENFRPGDRVRGVLYSVRPEARGAQLFVTRSKPEMLIELFRIEVPEIGEEVIEIKAAARDPGSRAKIAVKTNDKRIDPVGACVGMRGARVQAVSTELGGERIDIVLWDDNPAQFVINAMAPADVASIVVDEDKHTMDIAVEAGNLAQAIGRNGQNVRLASQLSGWELNVMTVDDLQAKHQAEAHAAIDTFTKYLDIDEDFATVLVEEGFSTLEELAYVPMKELLEIEGLDEPTVEALRERAKNALATIAQAQEESLGDNKPADDLLNLEGVDRDLAFKLAARGVCTLEDLAEQGIDDLADIEGLTDEKAGALIMAARNICWFGDEA |
| 2096 | sp|Q99497|PARK7\_HUMAN | MASKRALVILAKGAEEMETVIPVDVMRRAGIKVTVAGLAGKDPVQCSRDVVICPDASLEDAKKEGPYDVVVLPGGNLGAQNLSESAAVKEILKEQENRKGLIAAICAGPTALLAHEIGFGSKVTTHPLAKDKMMNGGHYTYSENRVEKDGLILTSRGPGTSFEFALAIVEALNGKEVAAQVKAPLVLKD |
| 2097 | sp|O25080|PGDAE\_HELPY | MAKEILVAYGVDIDAVAGWLGSYGGEDSPDDISRGLFAGEVGIPRLLKLFKKYHLPATWFSPGHSIETFSEQMKMIVDAGHEVGAHGYSHENPIAMTAKQEEDVLLKSVELIKDLTGKAPTGYVAPWWEFSNITNELLLKHGFKYDHSLMHNDFTPYYVRVGDSWSKIDYSLEAKDWMKPLIRGVETDLVEIPANWYLDDLPPMMFIKKSPNSFGFVSPHDIGQMWIDQFDWVYREMDYAVFSMTIHPDVSARPQVLLMHEKIIEHINKHEGVRWVTFNEIADDFLKRNPRKK |
| 2098 | sp|P40371|PP2C1\_SCHPO | MKGSHPNAGSLLEPLHKLNPFSENSTSGHRKNASDHSADGETRPIAIEMKDSKGNTVPVGNSRPSKASNWLAGLMEDKNQRWRRSMEDTHICLYDFGGNQDDGFVAVYDGHAGIQASDYCQKNLHKVLLEKVRNEPDRLVTDLMDETFVEVNSKIAKATHNDICGCTAAVAFFRYEKNRTRRVLYTANAGDARIVLCRDGKAIRLSYDHKGSDANESRRVTQLGGLMVQNRINGVLAVTRALGDTYLKELVSAHPFTTETRIWNGHDEFFIIACDGLWDVVSDQEAVDFVRNFVSPREAAVRLVEFALKRLSTDNITCIVVNLTRNPGDLDDSGLTADNDSYSNDYY |
| 2099 | sp|P35182|PP2C1\_YEAST | MSNHSEILERPETPYDITYRVGVAENKNSKFRRTMEDVHTYVKNFASRLDWGYFAVFDGHAGIQASKWCGKHLHTIIEQNILADETRDVRDVLNDSFLAIDEEINTKLVGNSGCTAAVCVLRWELPDSVSDDSMDLAQHQRKLYTANVGDSRIVLFRNGNSIRLTYDHKASDTLEMQRVEQAGGLIMKSRVNGMLAVTRSLGDKFFDSLVVGSPFTTSVEITSEDKFLILACDGLWDVIDDQDACELIKDITEPNEAAKVLVRYALENGTTDNVTVMVVFL |
| 2100 | sp|Q6IN02|PR15A\_RAT | MAPSPRPQHVLHWKEAHSFYLLSPLMGFLSRAWSRLRGPEVSEAWLAETVAGANQIEADALLTPPPVSENHLPLRETEGNGTPEWSKAAQRLCLDVEAQSSPPKTWGLSDIDEHNGKPGQDGLREQEVEHTAGLPTLQPLHLQGADKKVGEVVAREEGVSELAYPTSHWEGGPAEDEEDTETVKKAHQASAASIAPGYKPSTSVYCPGEAEHRATEEKGTDNKAEPSGSHSRVWEYHTRERPKQEGETKPEQHRAGQSHPCQNAEAEEGGPETSVCSGSAFLKAWVYRPGEDTEEEEDSDLDSAEEDTAHTCTTPHTSAFLKAWVYRPGEDTEEEDDGDWDSAEEDASQSCTTPHTSAFLKAWVYRPGEDTEEEDDSENVAPVDSETVDSCQSTQHCLPVEKTKGCGEAEPPPFQVAFYLPGQKPAPPWAAPKLPLRLQKRLRSFKAPARNQDPEIPLKGRKVHFSEKVTVHFLAVWAGPAQAARRGPWEQFARDRSRFARRIAQAEEQLGPYLTPAFRARAWTRLRNLPLPLSSSSLPLPEPCSSTEATPLSQDVTTPSPLPSEIPPPSLDLGGRRG |
| 2101 | sp|Q6EN42|PYL3\_ORYSJ | MVEVGGGAAEAAAGRRWRLADERCDLRAAETEYVRRFHRHEPRDHQCSSAVAKHIKAPVHLVWSLVRRFDQPQLFKPFVSRCEMKGNIEIGSVREVNVKSGLPATRSTERLELLDDNEHILSVRFVGGDHRLKNYSSILTVHPEVIDGRPGTLVIESFVVDVPEGNTKDETCYFVEALLKCNLKSLAEVSERLVVKDQTEPLDR |
| 2102 | sp|A2YEZ6|SAP8\_ORYSI | MEHKETGCQQPEGPILCINNCGFFGSAATMNMCSKCHKEMIMKQEQAKLAASSIDSIVNGGDSGKEPIIAGHAEVAVAQVEVKTLVAQPAEIAGPSEGVTVNPKGREGPNRCSTCRKRVGLTGFNCRCGNLYCAMHRYSDKHDCQFDYRTAARDAIAKANPVVKAEKLDKI |
| 2103 | sp|O31147|LON\_MYCSM | MAEAKTVPVLFLNDSIVLPGMVVPIELDDAARAAVDAARASESGELLIAPRLEDRYPAYGVLASIVQIGRLPNGDAAAVVRGERRAHIGSGTSGPGAALWVQVEEVTDPEPTDETKKLAGEYKKLLLAMLQRRDAWQIVDMVNKITDPSALADTAGYASYLTGTQKRELLETTDVDRRLSLLIGWTGDHLAETEVNDKIAEDVRTGMEKQQKEFLLRQQLAAIRKELGELDDNGDGSSDDYRARIEQADLPEKVREAALREVGKLERASDQSPEGGWIRTWLDTVLDLPWNVRTEDSTDLARAREILDTDHHGLSDVKDRIVEYLAVRGAAPQRGMAVVGGRGSGAVMVLAGPPGVGKTSLGESVARALDRKFVRVALGGVRDEAEIRGHRRTYVGALPGRIVRAIGEAGSMNPVVLLDEIDKVGSDYRGDPAAALLEVLDPAQNHTFRDHYLDLDLDLSDVVFLVTANVIENIPSALLDRMELVEIDGYTADDKLAIAQGFLLPRQRERGGLTSDEVTVTEAALRKIAADYTREPGVRQFERLLAKAMRKAATKLADHPQAAPITIDEPDLVEYLGRPRFLPESAERTAVPGVATGLAVTGLGGDVLYIEANSTEGEPGLQLTGQLGDVMKESAQIAMSYVRAHAKQLGVDPEALNRRIHIHVPAGAVPKDGPSAGVTMVTALVSMATGRKVRGDVGMTGEVTLNGRVLPIGGVKQKLLAAQRAGLSTVFIPQRNQPDLDDVPADVLDALDVRPMTDVADIIAAALEPAHEASTAAAA |
| 2104 | sp|Q62073|M3K7\_MOUSE | MSTASAASSSSSSSASEMIEAPSQVLNFEEIDYKEIEVEEVVGRGAFGVVCKAKWRAKDVAIKQIESESERKAFIVELRQLSRVNHPNIVKLYGACLNPVCLVMEYAEGGSLYNVLHGAEPLPYYTAAHAMSWCLQCSQGVAYLHSMQPKALIHRDLKPPNLLLVAGGTVLKICDFGTACDIQTHMTNNKGSAAWMAPEVFEGSNYSEKCDVFSWGIILWEVITRRKPFDEIGGPAFRIMWAVHNGTRPPLIKNLPKPIESLMTRCWSKDPSQRPSMEEIVKIMTHLMRYFPGADEPLQYPCQYSDEGQSNSATSTGSFMDIASTNTSNKSDTNMEQVPATNDTIKRLESKLLKNQAKQQSESGRLSLGASRGSSVESLPPTSEGKRMSADMSEIEARIVATAGNGQPRRRSIQDLTVTGTEPGQVSSRSSSPSVRMITTSGPTSEKPARSHPWTPDDSTDTNGSDNSIPMAYLTLDHQLQPLAPCPNSKESMAVFEQHCKMAQEYMKVQTEIALLLQRKQELVAELDQDEKDQQNTSRLVQEHKKLLDENKSLSTYYQQCKKQLEVIRSQQQKRQGTS |
| 2105 | sp|P34069|MFM2\_SCHPO | MDSIATNTHSSSIVNAYNNNPTDVVKTQNIKNYTPKVPYMCVIA |
| 2106 | sp|A3Q5L9|MPRA\_MYCSJ | MPVRILVVDDDRAVRESLRRSLSFNGYSVELAQDGVEALDLIANNRPDAVVLDVMMPRLDGLEVCRQLRSTGDDLPILVLTARDSVSERVAGLDAGADDYLPKPFALEELLARMRALLRRTSPDEGPDSPALTFLDLTLDPVTREVTRGSRQISLTRTEFALLEMLIANPRRVLTRSRILEEVWGFDFPTSGNALEVYIGYLRRKTEASGEPRLIHTVRGVGYVLRETPP |
| 2107 | sp|P37960|MRGA\_BACSU | MKTENAKTNQTLVENSLNTQLSNWFLLYSKLHRFHWYVKGPHFFTLHEKFEELYDHAAETVDTIAERLLAIGGQPVATVKEYTEHASITDGGNETSASEMVQALVNDYKQISSESKFVIGLAEENQDNATADLFVGLIEEVEKQVWMLSSYLG |
| 2108 | sp|E7BQV0|NPR1\_MALHU | MAHSAEPSSSLSFTSSPHLSNGSISHNLSCSGSESVPSLEVISLSKLSSSLEQLLIDPGCDYSDADIVVEGIPVGVHRCILASRSGFFRELFKREKGSSGKEDRPKYCMSDFLPYGDVGYEAFLVFLSYVYTGKLKPSPVEVSTCVHNVCAHDACRPAINFVVELMYAASIFQMPDLVSIFERRLLNFVGKALSDNVVPILLVAFHCQLNQLIDQCVDRVARSDIDDISLEKGLPDEVVKKIKILRRNYQQDSDPNLPPADPLHEKRIRRIHKALDSDDVELVKLLLTESNITLDEANALHYAAAYCDPKVVTEVLALGLADVNLRNSRGYTALHIAVMRKEPSIIVLLLTKGARASELTSDGQSAVSICRRLTRPKDYHSKTEQGQEANKDRICIDVLEREMRRNPMAGDASISSQIMPDDLHMELLNLENRVALARLFFPAEAKLAMVIAHAETSEFAAPSSSKGSSGNLMEVDLNETPTVQNKRLHSRLEALMKTVRLGRCYFPHCSEVLDKFIDDDLPHLFYLEPGSSDEQKVKRRRFMELKEEVQKAFDKDKAECNLSGLSSSSSTTSPEKIGANQKVREP |
| 2109 | sp|A6RW62|NST1\_BOTFB | MAQTTTKSNGQLPTPPTNNGAPTVNRKKQKRRAKQAARAAAEQAQGSQMSGGPTSGDVKRQMQELEARFRETGLDEQYDDDEQFDPADENAYYSDEEGDAYSGSYGHDGSSTNGYAIPTTNSSKKQKKKKKSKSSQSDHSNHANHGPNGSSHNHVSLPLPLQSPPSMQRGPGISKEKIWNTSSQEERERIKEFWLSLGEDERKSLVKVEKDAVLKKMKEQQKHSCSCTVCGRKRTAIEEELEVLYDAYYEELEQYANHQGGDGPPPMMPPPRRFGAMSGLQPPNRLPPVFNGQQPSRGRIVEQLGDDEDEEGDEEYSEDDGDEDDFSEEEPEEIPRSHATDFFNFGNSLTVQGGILTVADDLLKNDGKKFIEMMEQLAERRMAREEDAKEQYANANYGHPSNGSMHPHSHGHVHNHPPPPEEDEYDDEEDDEDEYDSQEEDYDEEEMDSMTEEQRMEEGRRMFQIFAARMFEQRVLTAYKEKVAKERQQKLLEELEEESRADSQKKAKRAKDAQKKKEKLLEKKRAMAEEKARKDAEKAAEEASLREIEEKKAEAQRLKREENRKKKEAQKKADEEERVRKESEKQRRLQEQRERQAEQERKQREAKERERKEKEELRRQALEAKEIKEKEAKERKEKHEREKREKEAKVKADKEARELQKREELSAQQAAVQAAQSAAHVSRRANQVPTPKLSHALASPHIPVAIPAVPKAPTPIKLRTNSQQDNYSIPRTPSSKYQSISPNSVTPLPNSPGPIGPPGKTPIQHPLLQHPQATSPIHSALKGPPGIPQSPYAGMQPMPGGFQPGMPMVPPGFGRPHHDPMFGLQQGIGSQFRPLQIPNGGIPPFQPGFNIHHMPQGRGFPMHGPPGFPQHSPNGMGSIGQLFGAPKETPPSQTHSRNQSGSFDGLSSATQAQPIARPTPIGRPSSIVHGTRHSDNFNSGESDETSKHLGSSALLDDTDEPINIGVGARRSSAAPGNPGRQNFLPPPFGMDRSDPASMMSSFNTWGAPPNPFGSSSLPGSNGFGGGWNTSLNMNGSFGMTNYYHSQPRSVAVRLRICGACQNLQNSTQDGWLDIDAIKNEIALSTTVREEPLSERELLDICDTEGNPMNGGGTFEIRSSDGKSQIHFVSDSMSHDFRSAGAPGEIGSPISGGASRNLGPPGRAPIGGF |
| 2110 | sp|Q6FM98|NST1\_CANGA | MPSGSKSKKKKSKSKGGVKKHAVEKVAPPIEAEIMDERDESDYPTSRVIKRGPNGDVIVESLPDKSTSGKKSKKKGKLSDLEVSESAKQMGITLDSHWESLSPDEKKNILRIEKEEVLEIIRNYQNDHNCSCSVCGRRHMAMNQEMERMYNLLYELEEQRDPDMNPVKFHLGIIKELQISKNKQILDQTEGPNDNTTHEEVVKNFLSSDIADKLKEEVHQFKQKQLSKQECNRPSSLANDNIEEEIPCAQIPQANEEAMTKDIQKTLEQLSVVEPVSKINVIQEDDLGEIKEENKEYLKFTESFISSQPKIAQKFIQKLDENPCMKAITDEVMQNSSYEFLDALKNLWAPNLLKIVESEDDDNLVNLNETLDPIEFTTMLHHGNPLSQQDYYDLQGAISRKVVNAFNFENRKLEHLSPLEVELFGRFMSSDQDNIFHNMLLEAYNERFKEEPFKMMSNIPQIIKAVATLTNLDGRMMDDVDENHFTSEEERYDDDITDYSDSEYEDYDSEYDDIDNGDIISDVDEPFSTLKSDQLRVNYDTNSGNINHSDNYESNSRLREVTDENEENLQYDTPQEKYNYSDHGKDHGTIADEDEDSIDEGYESSIDDMERLEEGRRLIQIAITKLLQGRIMESYHEKEADSNRLKLLKELEEEQMKKKEKEVKKIKKKEKEKEKRRLQQLAKEEEKRKKEEEERSAREEQERREMERREAQRKKVEEAKRKKDEERRRKLEEQRKREEQQEKQRKAKEEQKRKREEEKKKKEELERQLREEELMKKKEEEERLLREKERAEILKKETELAMSMKENHSSQSLSIQNQFFSNPQNSNIGMQNYFNNDLDNTNAGLGNGGPTNLGVRKNSHVLGLTQVYSDKANNSPGKNDDNNEINNEILNIINAATTAKSGSRTSMDMQALLQPPFTDNVNDQIRSSNLINDQASGMNSNGLSTNFHSPYGSNVFSGENQLSNNLQNDILTGLNADTSSTNLASWTSLPALNNLNANQHILSNNQTPLHQQKGTSPISNTMMDTKRDYLGDELSKLTTMLTTNSLNESPAFSSSNLQSSLWNDQNSSGKTPLGSNTTQIPLSQPAFLGTEPPVHRSSIWGDSSASMFNFSQRLSVPTNSNSVSSQTVPNQNIGMGSSFTNPSIWSTGSDFNVPSRDMNSGVAFTNSFSNTSPRNQFALNSGSMLQNQSQRQNIMDNIRLLSNSPQNNGYIPIDLLYQSINKQSTSDFPSFLNNVIDLERSHNYDLVKDQTGVINGVRVGSENRPVSTAFSNFHQNMDPTMKGPEHLSNSIPGTARNFEGNSYLAKEATMNIIPSSSLDR |
| 2111 | sp|Q72EF4|NRFH\_DESVH | MSEEKSRNGPARLKLVLGGATLGVVALATVAFGMKYTDQRPFCTSCHIMNPVGVTHKLSGHANISCNDCHAPHNLLAKLPFKAIAGARDVYMNTLGHPGDLILAGMETKEVVNANCKACHTMTNVEVASMEAKKYCTDCHRNVQHMRMKPISTREVADE |
| 2112 | sp|G8QM60|NRSF\_AZOOP | MKTEDLITMLAAGAGAVEAPSAAQRYALAIGWGAAGATLLMLALLQVRHDLGLALLLPMFWVKVGFVTCLAAGSLFAVLRLSRPGAKTNWVPAALGLPVLGMWAIAAFTLIEAEPMERSNLFFGDTWKSCPLLIAMLSVPVFAAVLRSMKDLAPTRPRLAGFAAGLLAGAVAAVVYCLHCPELGAPFIGFWYLLGMLIPAAVGVLLGNSMLRW |
| 2113 | sp|Q9KHT6|OPUCD\_LISMN | MDTLKQLIDYYQTNGSYVMEEFWRHFLMSAYGVIFAAIIAIPLGVYIARKKRLAGWVIQIANIIQTIPALAMLAVLMLIMGLGTNTVVLSLFLYSLLPILKNTYTGIRNVDGALLESGKAMGMTKWQVLRLIEMPLALSVIMAGIRNALVIAIGVAAIGTFVGAGGLGDIIVRGTNATNGTAIILAGAIPTAVMAILADVLLGWVERTLNPVKNKRKPLTEAL |
| 2114 | sp|Q9FFT4|PDC2\_ARATH | MDTKIGSIDACNPTNHDIGGPPNGGVSTVQNTSPLHSTTVSPCDATLGRYLARRLVEIGVTDVFSVPGDFNLTLLDHLIAEPNLKLIGCCNELNAGYAADGYARSRGVGACVVTFTVGGLSVLNAIAGAYSENLPLICIVGGPNSNDYGTNRILHHTIGLPDFTQELRCFQAVTCFQAVINNLEEAHELIDTAISTALKESKPVYISISCNLPAIPLPTFSRHPVPFMLPMKVSNQIGLDAAVEAAAEFLNKAVKPVLVGGPKMRVAKAADAFVELADASGYGLAVMPSAKGQVPEHHKHFIGTYWGAVSTAFCAEIVESADAYLFAGPIFNDYSSVGYSLLLKKEKAIIVQPDRVTIGNGPAFGCVLMKDFLSELAKRIKHNNTSYENYHRIYVPEGKPLRDNPNESLRVNVLFQHIQNMLSSESAVLAETGDSWFNCQKLKLPEGCGYEFQMQYGSIGWSVGATLGYAQAMPNRRVIACIGDGSFQVTAQDVSTMIRCGQKTIIFLINNGGYTIEVEIHDGPYNVIKNWNYTAFVEAIHNGEGKCWTAKVRCEEELVKAINTATNEEKESFCFIEVIVHKDDTSKELLEWGSRVSAANSRPPNPQ |
| 2115 | sp|P45558|PRMA\_CLOAB | MDKDWFEVSVITSSEAVEAVTGILYNTPVKGVAIEDSKDVEFKKKHPGDWDYFDESLLNVKDGAVIKAYYKDDHNFDESVKYIEESIDKLSEFGINKGEGKVFVNKVNETDWENNWKKYYKPTKIGARIVVKPLWEEYTPKDYELMLNMDPGMAFGTGTHETTRMCIQALERYVNEDAEVFDIGTGSGILAIAAAKLNAKKVLGVDLDSVAVKAAKENIQYNNVNNIEILHGNLMEVVQGKADIIVANIIADVINILIPDINKFLKTDGYFISSGIIKDRAEDVIENLKKNKFEIIEVNNQGEWICIVAKL |
| 2116 | sp|O84300|RADA\_CHLTR | MTTKIKTQWTCTECGTHSPKWLGQCSGCLQWNTLVEERTAPKLNTSSYSSSSSIPIPLNNVEFQEEIRIHTQAQGWNRLLGGGTVRGSLALLGGEPGIGKSTLLLQISSQFAAAGHKVLYVCGEESVSQTSLRAQRLQISSNNIFLFPETNLEDIKQQIDNIAPDILVIDSIQIIFSPSLSSAPGSVAQVRETTAELMHIAKQKQITTFIIGHVTKSGEIAGPRILEHLVDTVLYFEGNAHANYRMIRSVKNRFGPTNELLILSMHTDGLREVENPSGLFLQEKIVETTGSTIIPIVEGSETLLIEVQALVSSSPFSNPVRKTSGFDPNRFSLLLAVLEKRANVKLYTSDVFLSIAGGLKITQPSADLGAVLSVVSSLYNRYLPKNYTYTGEIGLGGEIRHVSHMEHRIKESIIMGFKGIVMPFGQIKGLPKEFLDQIDIIGVKTIKDAVRLLQ |
| 2117 | sp|Q9V0Y9|REG6\_PYRAB | MRVSLDEIDRRIIKILQKDGKAPLREISKITGLAESTIHERIKKLRESGVIRKFTAIVNPEALGYSMLAFILIKVKAGKYAEVASNLVKYEEIMEVYETTGDYDMVVKIRTKNSEELNSFLDVIGSIPGVEGTHTMIVLKTHKETTELPIK |
| 2118 | sp|Q9LEB3|RBP47\_NICPL | MNGGDMNQQQQQQQQQHQQQQQQWLAMQQYQQQWMAMQYPAAAMAMQQQMMYGQQYMPYYQQHQQQQKMQQSPTQIQSSSEDNKTIWIGDLQQWMDESYLHSCFSQAGEVISVKIIRNKQTGQSERYGFVEFNTHAAAEKVLQSYNGTMMPNTEQPFRLNWAGFSTGEKRAETGSDFSIFVGDLASDVTDTMLRDTFASRYPSLKGAKVVVDANTGHSKGYGFVRFGDESERSRAMTEMNGVYCSSRAMRIGVATPKKPSAHEQYSSQAVILSGGYASNGAATHGSQSDGDSSNTTIFVGGLDSEVTDEELRQSFNQFGEVVSVKIPAGKGCGFVQFSDRSSAQEAIQKLSGAIIGKQAVRLSWGRSPANKQMRTDSGSQWNGGYNGRQNYGGYGYGASQNQDSGMYATGAAYGASSNRYGNHQQPVS |
| 2119 | sp|Q9ZT50|RHA2A\_ARATH | MGLQGQLSDVSSDSIPLMLLSLLAVFINHLRSFLLRLTSKSNPNLPVDDVSIASGLANIIVLADQLSLNRLFSYRCGDGGGGGSDCVVCLSKLKEGEEVRKLECRHVFHKKCLEGWLHQFNFTCPLCRSALVSDDCVSKTQRSVGRDLISCFSLH |
| 2120 | sp|P72360|SCDA\_STAA8 | MINKNDIVADVVTDYPKAADIFRSVGIDFCCGGQVSIEAAALEKKNVDLNELLQRLNDVEQTNTPGSLNPKFLNVSSLIQYIQSAYHEPLREEFKNLTPYVTKLSKVHGPNHPYLVELKETYDTFKNGMLEHMQKEDDVDFPKLIKYEQGEVVDDINTVIDDLVSDHIATGELLVKMSELTSSYEPPIEACGTWRLVYQRLKALEVLTHEHVHLENHVLFKKVS |
| 2121 | sp|P53778|MK12\_HUMAN | MSSPPPARSGFYRQEVTKTAWEVRAVYRDLQPVGSGAYGAVCSAVDGRTGAKVAIKKLYRPFQSELFAKRAYRELRLLKHMRHENVIGLLDVFTPDETLDDFTDFYLVMPFMGTDLGKLMKHEKLGEDRIQFLVYQMLKGLRYIHAAGIIHRDLKPGNLAVNEDCELKILDFGLARQADSEMTGYVVTRWYRAPEVILNWMRYTQTVDIWSVGCIMAEMITGKTLFKGSDHLDQLKEIMKVTGTPPAEFVQRLQSDEAKNYMKGLPELEKKDFASILTNASPLAVNLLEKMLVLDAEQRVTAGEALAHPYFESLHDTEDEPQVQKYDDSFDDVDRTLDEWKRVTYKEVLSFKPPRQLGARVSKETPL |
| 2122 | sp|P39207|NDK1\_ARATH | MEQTFIMIKPDGVQRGLIGEVICRFEKKGFTLKGLKLISVERSFAEKHYEDLSSKSFFSGLVDYIVSGPVVAMIWEGKNVVLTGRKIIGATNPAASEPGTIRGDFAIDIGRNVIHGSDSVESARKEIALWFPDGPVNWQSSVHPWVYET |
| 2123 | sp|Q8DTN6|NRNA\_STRMU | MTAFKTILAKIKAYDTIIIHRHMKPDPDALGSQVGLKEMITSNFPQKTVKVTGYNEPSLSWLAQMDDVSDKDYEGALVIVVDTANRPRIDDQRYLNGNFLIKIDHHPDEDHYGDLSYVDTKASSASEIITDFALQNQLKLSDQAARLLYAGILGDTGRFLYPATTSKTFIIASELLKYDFDFAALARQMDSFPYKIAKLQAYVFENLEIDKNGAARIILSQKILKKFNLTDAETSAIVSSPGKIDTVQVWAIFVEQADGHYRVRLRSKSTVINEVAKRHAGGGHPLASGANSYSLAENEDIYQELKNLLK |
| 2124 | sp|Q9ZMK9|RADA\_HELPJ | MAKKTSLFECQHCGFTSPKWLGKCVQCNAWESFIELNQTQKEVLNALKKPLPQVQKSVSIAEIEHEEVIKFSSTQSELDIVLGGGIAKGGLYLVGGSPGVGKSTLLLKVASGLAKNQQKVLYVSGEESLSQIKMRATRLDCIEEELYLLNEINWPVIKANMESENYFACVIDSIQTLYSPEISSAPGSISQVREITFELMRLAKTRDIAIFIIGHITKEGSIAGPRVLEHMVDSVLYFEGDPSRELRILRSFKNRFGPTSEIGLFEMKEQGLVSAKEASSLFFSKEEPMEGSAITITLEGSRALILEIQALVSECSFGAPKRLANGFDTNRLNMLIALLEKKLEIPLNRHDVFINVSGGIKISEPACDLAVIASILSSFKNRKIDNKTAFLGEVSLNGRILEAPNLNARLKEMENYGFLKAILPKKPSQKTSIKCYEANVVGKIVEWM |
| 2125 | sp|Q8NK72|RAD52\_MAGO7 | MPAPGDQHSRISNPFEDVKPRVSEYTAQEIATLQTRLERQLGPEYLSARAGPSGQKVHYVAAEKVIGLANEVFGFNGWSSSIQNIQVDFVDEHPQTLKISLGLHVVVRVTLRDGTFHEDIGYGHIENCKGKAMAFEKAKKEGTTDALKRALRNFGNVLGNCVYDKAYLAKVTKLKVEPTKFDELNLHRHADFAKKDVVAEPRLPPVKPEPSNTASAAPHPPLPPLPEADSFDDLLGEFDEADFCVVDADGHPDEVVLPENSHASGSSGNTGASTTNRGPGAPSGNQSNQQRPMQPSSRMNLNGPAGRPQPQTPNHQINRSGPQNGSINNQQNNHGMRPSPHMANQGRPPPPPQNNNNTSNGTGPHQRPLGNGPQQNTPPPNNGAATAPSGAEPVAFFSARAVARVPDDASLPPPPGTATPTALFNPKAESPSIRKTPGIDHSSSRPVSRTGQHVPAKPVQDGGGLANDNPSNNAGNGVQNQPQKPQPSQQRGSILNPQFDQSRRIGAPGGAASPLSNRNQYRPPTMMKRPPLADVPNGTSNGNGTPGDSKRMKLN |
| 2126 | sp|P9WHJ8|RADA\_MYCTO | MANARSQYRCSECRHVSAKWVGRCLECGRWGTVDEVAVLSAVGGTRRRSVAPASGAVPISAVDAHRTRPCPTGIDELDRVLGGGIVPGSVTLLAGDPGVGKSTLLLEVAHRWAQSGRRALYVSGEESAGQIRLRADRIGCGTEVEEIYLAAQSDVHTVLDQIETVQPALVIVDSVQTMSTSEADGVTGGVTQVRAVTAALTAAAKANEVALILVGHVTKDGAIAGPRSLEHLVDVVLHFEGDRNGALRMVRGVKNRFGAADEVGCFLLHDNGIDGIVDPSNLFLDQRPTPVAGTAITVTLDGKRPLVGEVQALLATPCGGSPRRAVSGIHQARAAMIAAVLEKHARLAIAVNDIYLSTVGGMRLTEPSADLAVAIALASAYANLPLPTTAVMIGEVGLAGDIRRVNGMARRLSEAARQGFTIALVPPSDDPVPPGMHALRASTIVAALQYMVDIADHRGTTLATPPSHSGTGHVPLGRGT |
| 2127 | sp|Q8U0P3|REG6\_PYRFU | MRGILDDIDKKIIEILQKDGKVPLREISKITGLAESTIHERIKRLRESGVIKKFTAVVNPEALGYNILAFILIKVKAGKYSEVASKLVKYPEIVEVYETTGDYDMVVKIRTKNSEELNNFLDMVGSIEGVEGTHTMIVLKVHKETTELPVK |
| 2128 | sp|Q8ZKU8|RDOA\_SALTY | MNDNAFTFQTLHPETIMDALFEQGIMVDSGLTPLNSYENRVYQFQDEDRRRFVVKFYRPERWSVDQIREEHQFALELVKDEVPVAAPLAFNGQTLLAHQGYHYAIFPSVGGRQFEADNIDQMEAVGRYLGRLHQTGRKRPFTFRPDIGLAEYLFEPRQVFEDAALIPSGQKAAFLKATDTLLSAVTECWRTDFATLRLHGDCHAGNILWRDGPLFVDLDDARNGPAIQDLWMLLNGDKAEQRMQLETIIEAYEEVSEFDTAEIGLIEPLRAMRLVYYLAWLIRRWGDPAFPKNFPWLTGEDYWQRQTTTFIEQTKILHEPPLQLTPMY |
| 2129 | sp|P0AGB9|RPOE\_SHIFL | MSEQLTDQVLVERVQKGDQKAFNLLVVRYQHKVASLVSRYVPSGDVPDVVQEAFIKAYRALDSFRGDSAFYTWLYRIAVNTAKNYLVAQGRRPPSSDVDAIEAENFESGGALKEISNPENLMLSEELRQIVFRTIESLPEDLRMAITLRELDGLSYEEIAAIMDCPVGTVRSRIFRAREAIDNKVQPLIRR |
| 2130 | sp|Q97D83|RRBR2\_CLOAB | MKKFKCVVCGYIYTGEDAPEKCPVCGAGKDKFVEVKDEGEGWADEHKIGIAKGVDKEVLEGLRANFTGECTEVGMYLAMARQADREGYPEVAEAYKRIAFEEAEHASKFAELLGEVVVADTKTNLQMRVDAEKGACEGKKELATLAKKLNYDAIHDTVHEMCKDEARHGSAFRGLLNRYFK |
| 2131 | sp|Q7XAP4|RSH2\_ORYSJ | MSVPAIAVYTSPPGAVYTSSSSSELEASSRGSAPCATAAPPSPASSHRHQAIAGGLSCLFSSPTAAPRAAAAQDELGALWHDRSGEATAVGGGGGGGGYSYPQPSSPFKWRDMLHHSPVPLFHSPASSPASRSPSASWLAGRERERLFSSFVRNALGSCVDYAPVAALPLGVSAAVGVGAGELAFELDEHLSEAEPSCEPYARDLLAGAQARHRIFHDELVVKAFFEAERAHRGQTRASGDPYLQHCVETAVLLAKIGANATVVSAGLLHDTIDDSFMDYDQIFRMFGAGVADLVEGVSKLSHLSKLARDNNTASRTVEADRLHTMFLAMADARAVLIKLADRLHNMKTIEALPLVKQQRFAKETMEIFVPLANRLGIASWKDQLENICFKHLNPEEHKELSSKLVISFDEALLTSTLDKLDKGLRDEGISYHSLSGRHKSLYSIYSKMIKKNLTMDDVHDIHGLRLVVDTEQDCYQALDIVHKLWPRVAGRFKDYILHPKLNGYRSLHTVIMCEGIHPFEVQIRTKEMHLQAEYGFAAHWRYKEGGCKHSFVLQMVEWARWVLTWQCEAMSKERSSGLGRSDAIRPPCPFPSHSEDCPYSYTRQCNHDGPIFVIMLEHDKMSVQELPANSTVVDLMERVGANSPRCSPYSFPLKEELRPRVNHKPISDPNRKLCMGDVVELTPALPHKSLTEYREEIQRMYERGGFALATTRDGPAS |
| 2132 | sp|E6WEY6|SBMC\_PANSA | MKTSIVERPAQHWVGYRLQGPWQETVPQGFAQLKDWVARHALQGEWMAIYYGNPQVVPPQELSVETVLTVPADFALAVGEGIQHGTLAGGHYFHTCTEVQNNDFFSAWNAFFAQLQQRSDWQVDDRPCYEHYLSDGSQSGNWLLNMYIPVRPV |
| 2133 | sp|Q2PJ68|SGK1\_CAEEL | MGSMYYNESRMVRKDEVTCNVIIGDDKKTVVYALRIGNGPIMQKTFEEYERFFTTEKDMIPATIFTAPKKKFLQADSKFYEKRRVWILVISQHLVDNNLRSEDVRRFFHLESPDDDENNVDLGPSERKTATANDFDYLTTIGKGSFGRVYQVRHKETKKIYAMKILSKEHIRKKNEVKHVMAERNVLINNFKHPFLVSLHFSFQNKEKLYFVLDHLNGGELFSHLQREKHFSESRSRFYAAEIACALGYLHEKNIIYRDLKPENLLLDDKGYLVLTDFGLCKEDMQGSKTTSTFCGTPEYLAPEIILKKPYDKTVDWWCLGSVLYEMIFGLPPFYSKDHNEMYDKIINQPLRLKHNISVPCSELITGLLQKDRSKRLGHRNDFRDIRDHPFFLPVDWDKLLNRELKAPFIPKVKNAMDTSNISKEFVEIQIDPSSLAPQQLAVTHRDHDFENFTFVDTNRVLV |
| 2134 | sp|Q2G1Y5|LDH2\_STAA8 | MKTFGKKVVLIGDGSVGSSYAFAMVTQGVADEFVIIDIAKDKVKADVQDLNHGTVHSPSPVDVKAGEYEDCKDADLVVITAGAPQKPGETRLQLVEKNTKIMKSIVKSVMDSGFDGYFLIAANPVDILTRFVKEYTGLPAERVIGSGTVLDSARLQYLISQELGVAPSSVDASIIGEHGDTELAVWSQANVAGISVYDTLKEQTGSEAKAEEIYVNTRDAAYEIIQAKGSTYYGIALALMRISKAILNNENNVLNVSIQLDGQYGGHKGVYLGVPTLVNQHGAVKIYEMPLSAEEQALFDKSVKTLEDTFDSIKYLLED |
| 2135 | sp|B3LR01|MBR1\_YEAS1 | MRMEKTTDKPLSAGDMNDEYSRGPIDDIDCLNFFERAVQDPCCEACDTEDADEELRAKLSSFNFQPDSSPCNAKCQQTLNPLCKIDEGLPAESELAPSRNGSVSEANSDTNSIASTVHDPVDSKYGGMPSLRKAKTTSYFTSSSSNNTTMRNPLKKCNTNINGLLVNRRSSSSSRQSIPELFSGACTKKKNNVLLKSETPNSEFSTNSLQHCNSRSFSLPRSRSRSSAIAIPTHLYGLEKYVSPELDTLTADPEESIERFSNNRPREISSCCPNDTGDTSSSLSHSNTSSSLNFPLGTNTNQFHQPRQPVQQQQSSKPNFGAGRKKSFIEMSLASSFAG |
| 2136 | sp|Q39QP7|LON\_GEOMG | MEEIEDKEPRQENEELKIPDVLPLLPVRDVVVYPYMILPLFVGREISINAVDQALSRDRLIFLATQKEMGDEEPTPEGMYTVGTVAMIMRMLKLPDGRVKVLVQGLAKGLITEFVESKPAYTVRIERIVEPSVPEESLETEALMRAVKEQLTQIVSLGKAVSPEVLVIVENMQEPGSLADLIASNIGLKVDDAQALLEIIDPVQRLQKVNEHLNKEHELLDMQVKIQSAAKEEMGKSQREYFLREQLRAIQQELGETDPRSEELNELRKAIEQAKMPPVVEKEAFKQLGRLEQMHPDAAEAGMLRTFLDWMVELPWGKATKDVLDIKRARQILDEDHFYLEKIKERILEFLAVRKLRKKMKGPILCFVGPPGVGKTSLGKSIARAMGRKFVRISLGGVRDEAEIRGHRRTYVGALPGRIIQGLKQAGSNNPVFMLDELDKLGADFRGDPSSALLEVLDPEQNHMFSDHYINLPFNLSNVMFIATANQIDTVPGPLRDRMEVIQLSGYTEEEKLEIAKRYLIPRQMKENGISEKEIVISDEAVRTIIAKYTREAGLRNLEREIGSVCRKVARKVAEGDGRRFRITPATVAKYLGPARFIREGEMEKNEVGIVTGLAWTPVGGEVLFVEATIMKGKGGLTLTGHLGDVMKESVQAALSYIRSKAKEFHLAEDFLSGYDIHVHVPAGAIPKDGPSAGVTMATALVSALTRVPVRKDVAMTGEITLRGKVLPIGGLKEKMLAAIRAGIKTIVIPEQNEKDLEEIPKHILKKVTVVSAKVIDDVLAVALETFPPPPPASEGKPAATVKAPPRRGIAAPRKGAMAGAKS |
| 2137 | sp|Q9CAR0|NAC32\_ARATH | MMKSGADLQFPPGFRFHPTDEELVLMYLCRKCASQPIPAPIITELDLYRYDPWDLPDMALYGEKEWYFFSPRDRKYPNGSRPNRAAGTGYWKATGADKPIGRPKPVGIKKALVFYSGKPPNGEKTNWIMHEYRLADVDRSVRKKNSLRLDDWVLCRIYNKKGVIEKRRSDIEDGLKPVTDTCPPESVARLISGSEQAVSPEFTCSNGRLSNALDFPFNYVDAIADNEIVSRLLGGNQMWSTTLDPLVVRQGTF |
| 2138 | sp|O06493|OPUE\_BACSU | MSIEIIISLGIYFIAMLLIGWYAFKKTTDINDYMLGGRGLGPFVTALSAGAADMSGWMLMGVPGAMFATGLSTLWLALGLTIGAYSNYLLLAPRLRAYTEAADDAITIPDFFDKRFQHSSSLLKIVSALIIMIFFTLYTSSGMVSGGRLFESAFGADYKLGLFLTTAVVVLYTLFGGFLAVSLTDFVQGAIMFAALVLVPIVAFTHVGGVAPTFHEIDAVNPHLLDIFKGASVISIISYLAWGLGYYGQPHIIVRFMAIKDIKDLKPARRIGMSWMIITVLGSVLTGLIGVAYAHKFGVAVKDPEMIFIIFSKILFHPLITGFLLSAILAAIMSSISSQLLVTASAVTEDLYRSFFRRKASDKELVMIGRLSVLVIAVIAVLLSLNPNSTILDLVGYAWAGFGSAFGPAILLSLYWKRMNEWGALAAMIVGAATVLIWITTGLAKSTGVYEIIPGFILSMIAGIIVSMITKRPAKASYRLFGVMEKLLKRKK |
| 2139 | sp|P26450|P85A\_MOUSE | MSAEGYQYRALYDYKKEREEDIDLHLGDILTVNKGSLVALGFSDGQEARPEDIGWLNGYNETTGERGDFPGTYVEYIGRKRISPPTPKPRPPRPLPVAPGSSKTEADTEQQALPLPDLAEQFAPPDVAPPLLIKLLEAIEKKGLECSTLYRTQSSSNPAELRQLLDCDAASVDLEMIDVHVLADAFKRYLADLPNPVIPVAVYNEMMSLAQELQSPEDCIQLLKKLIRLPNIPHQCWLTLQYLLKHFFKLSQASSKNLLNARVLSEIFSPVLFRFPAASSDNTEHLIKAIEILISTEWNERQPAPALPPKPPKPTTVANNSMNNNMSLQDAEWYWGDISREEVNEKLRDTADGTFLVRDASTKMHGDYTLTLRKGGNNKLIKIFHRDGKYGFSDPLTFNSVVELINHYRNESLAQYNPKLDVKLLYPVSKYQQDQVVKEDNIEAVGKKLHEYNTQFQEKSREYDRLYEEYTRTSQEIQMKRTAIEAFNETIKIFEEQCQTQERYSKEYIEKFKREGNEKEIQRIMHNHDKLKSRISEIIDSRRRLEEDLKKQAAEYREIDKRMNSIKPDLIQLRKTRDQYLMWLTQKGVRQKKLNEWLGNENTEDQYSLVEDDEDLPHHDEKTWNVGSSNRNKAENLLRGKRDGTFLVRESSKQGCYACSVVVDGEVKHCVINKTATGYGFAEPYNLYSSLKELVLHYQHTSLVQHNDSLNVTLAYPVYAQQRR |
| 2140 | sp|P0AA19|OMPR\_SALTY | MQENYKILVVDDDMRLRALLERYLTEQGFQVRSVANAEQMDRLLTRESFHLMVLDLMLPGEDGLSICRRLRSQSNPMPIIMVTAKGEEVDRIVGLEIGADDYIPKPFNPRELLARIRAVLRRQANELPGAPSQEEAVIAFGKFKLNLGTREMFREDEPMPLTSGEFAVLKALVSHPREPLSRDKLMNLARGREYSAMERSIDVQISRLRRMVEEDPAHPRYIQTVWGLGYVFVPDGSKA |
| 2141 | sp|Q42908|PMGI\_MESCR | MGSTEFSWKLADHPKLPKGKTLAMVVLDGWGEASANQYNCIHVAETPTMDSLKQGAPEKWRLIRAHGKAVGLPTEDDMGNSEVGHNALGAGRIYAQGAKLVDLALESGKIYDGEGFNYIKESFETNTLHLIGLLSDGGVHSRLDQLQLLLKGSAERGAKRIRVHILTDGRDVLDGSSVGFVETLENDLAQLRAKGVDAQIASGGGRMYVTMDRYENDWSVVKRGWDAQVLGEAPYKFKNAVEAVKTLRQEPKANDQYLPPFVVVDESGKAVGPIVDGDAVVTLNFRADRMVMLAKALEYEDFDKFDRVRFPKIRYAGMLQYDGELKLPNRYLVSPPEIERTSGEYLVHNGVRTFACSETVKFGHVTFFWNGNRSGYFKPEMEEYVEIPSDSGITFNVQPKMKALEIAEKARDAILSGKFDQVRVNLPNSDMVGHTGDIEATVVACKAADEAVKMIIDAIEQVGGIYVITADHGNAEDMVKRDKKGQPAMDKNGNIQILTSHTLEPVPIAIGGPGLTPGVRFRNDIPTGGLANVAATVMNLHGFEAPSDYEPTLIEVVSN |
| 2142 | sp|Q6NKX1|PROD2\_ARATH | MANRFLRPNLIHRFSTVSPVGPPTTIIPEILSFDQPKPEVDLDLSDQARLFASVPISTLLRSTAILHATSIGPMVDLGSWLMSSKLMDTTVTRDLVLRIVKGTFYDHFCAGEDAAAAARRVSSVYESTGLKGMLVYGVEHAEDGGACDENIQKFIETVEAAKTLPSSHLSSVVVKITAICPMNVLKRVSDLLRWQYKNPNFKLPWKLNSFPVFSGLSPLYHTTSEPEPLTVEEERELEKAHERLKSVCLRCQESNVPLLIDAEDTILQPAIDYMAYWSAIMFNSDKDRPIVYNTIQAYLKDAGERLHLALRESEKMNVPIGFKLVRGAYMSSEAKLADSLGYKSPVHDTIQNTHDCYNDCMSFLMEKASNGSGIAVILATHNTDSGKLGARKASELGINKENGKIEFAQLYGMSDALSFGLKRAGFNVSKYMPYGPVDTAIPYLIRRAYENRGMMSTGALDRQLMRKELKRRVMAW |
| 2143 | sp|O13632|PVH1\_SCHPO | MSNKSAWQPQFDEIHSSVQEAEGFLQSSNDVQKAIDEVHYPDSLNDLSEISKNLYISSWKTASELVSTSDKGIDYTLSAMSINPNLSVPEQQHLWLQIEDSSSQNILQYFEKSNKFIAFALSKNAKVLVHCFAGISRSVTLVAAYLMKENNWNTEEALSHINERRSGISPNANFLRQLRVYFECNYQLDRSLRPYRQWLFRRYGDFAVLNTRVPSEVAYAETVRARAGQLELRCKKCRFVLASSDYLVSHEPKDENNYSHTRCTHYFLEPIRWMQPELELGNLEGRFDCPKCNSKIGSYKWQGLQCSCLQWVCPALSILQSRVDAVRKLG |
| 2144 | sp|Q9RVC4|RADA\_DEIRA | MERVAVLFRRTCNSENCSKGRRPLRERPLAGLFFCSLPAPLSIPCLSLPGSNPGDFVPKVKTNYICNSCGYQSAKPLGRCPNCQAWNSFEEEVPTASTSGKSGRGGLGGYGGVKGGKLTPLSTVGRREEPRTPSGIPELDRVLGGGLVAGGVTLIGGEPGIGKSTLLLQVADKVASRGGTVLYVAGEESLEQIRLRADRLGVAADLQMTRDTRAEHIAALLEEHKPALCIVDSIQTVTVEGEGAPGGVAQVRDGTAMLTRAAKETGTATVLVGHVTKDGTVAGPKVMEHIVDTTVFLETVGAFRLLRSVKNRFGQAGELGVFEMRGEGLIAVDNPSAAFLAERPLDVPGSVVAATVDGQRPMLLEVQALASKTPYPNARRVVVGLDPRRVDVVLAVLERRLDLTLGGLDVYVNLAGGLKVPDPGLDLAVALAVYSAVVGRALPQNVAVFGEVGLAGEVRSTQMALRRAEEAGRAGYKRLVVPPGLDGQAGVKSVEEAVKAVWR |
| 2145 | sp|Q06738|RD29A\_ARATH | MDQTEEPPLNTHQQHPEEVEHHENGATKMFRKVKARAKKFKNSLTKHGQSNEHEQDHDLVEEDDDDDELEPEVIDAPGVTGKPRETNVPASEEIIPPGTKVFPVVSSDYTKPTESVPVQEASYGHDAPAHSVRTTFTSDKEEKRDVPIHHPLSELSDREESRETHHESLNTPVSLLSGTEDVTSTFAPSGDDEYLDGQRKVNVETPITLEEESAVSDYLSGVSNYQSKVTDPTKEETGGVPEIAESFGNMEVTDESPDQKPGQFERDLSTRSKEFKEFDQDFDSVLGKDSPAKFPGESGVVFPVGFGDESGAELEKDFPTRSHDFDMKTETGMDTNSPSRSHEFDLKTESGNDKNSPMGFGSESGAELEKEFDQKNDSGRNEYSPESDGGLGAPLGGNFPVRSHELDLKNESDIDKDVPTGFDGEPDFLAKGRPGYGEASEEDKFPARSDDVEVETELGRDPKTETLDQFSPELSHPKERDEFKESRDDFEETRDEKTEEPKQSTYTEKFASMLGYSGEIPVGDQTQVAGTVDEKLTPVNEKDQETESAVTTKLPISGGGSGVEEQRGEDKSVSGRDYVAEKLTTEEEDKAFSDMVAEKLQIGGEEEKKETTTKEVEKISTEKAASEEGEAVEEEVKGGGGMVGRIKGWFGGGATDEVKPESPHSVEEAPKSSGWFGGGATEEVKPKSPHSVEESPQSLGSTVVPVQKEL |
| 2146 | sp|P77212|RCLA\_ECOLI | MNKYQAVIIGFGKAGKTLAVTLAKAGWRVALIEQSNAMYGGTCINIGCIPTKTLVHDAQQHTDFVRAIQRKNEVVNFLRNKNFHNLADMPNIDVIDGQAEFINNHSLRVHRPEGNLEIHGEKIFINTGAQTVVPPIPGITTTPGVYDSTGLLNLKELPGHLGILGGGYIGVEFASMFANFGSKVTILEAASLFLPREDRDIADNIATILRDQGVDIILNAHVERISHHENQVQVHSEHAQLAVDALLIASGRQPATASLHPENAGIAVNERGAIVVDKRLHTTADNIWAMGDVTGGLQFTYISLDDYRIVRDELLGEGKRSTDDRKNVPYSVFMTPPLSRVGMTEEQARESGADIQVVTLPVAAIPRARVMNDTRGVLKAIVDNKTQRMLGASLLCVDSHEMINIVKMVMDAGLPYSILRDQIFTHPSMSESLNDLFSLVK |
| 2147 | sp|P0A2F1|RPOE\_SALTI | MSEQLTDQVLVERVQKGDQKAFNLLVVRYQHKVASLVSRYVPSGDVPDVVQESFIKAYRALDSFRGDSAFYTWLYRIAVNTAKNYLVAQGRRPPSSDVDAIEAENFESGGALKEISNPENLMLSEELRQIVFRTIESLPEDLRMAITLRELDGLSYEEIAAIMDCPVGTVRSRIFRAREAIDNKVQPLIRR |
| 2148 | sp|Q0WNP7|ROGF4\_ARATH | MESSSNSDQNEGTPTSSVSSPYRRTYSDISGLSHRFDVQSFYNRPSNTNAVVLSGHEEDVSEDAEEPKDDVVNDVHGDGDEEDSDIDSAEDAELEMMRERFAKLLLGEDMSGSGKGVCTAVTVSNSITNLYATVFGQSLRLQPLSTEKKDLWKREMNCFMSICDYIVEVIPRSLGTNVEITETKLRSDILMSLPALRKLDNMLMEILDSFTENEFWYVERGSSSMNSGGGGRDSGTFRKVVVQRKDEKWWLPVPCVPAEGLSEEERKHLRHKRDCASQIHKAALAINDSTLNDMDIPDSYLTTLPKSGKASVGDVIYKQLCTAEKFYPDQLLDILKITSEHEALELADKVEASLVTWRRKTGGLTHSKSSWDMMKDISGDADRGNDKNHILAARARSLLFCLKQRYPELSQTSLDICKIQFNRDVGKAVLESYSRVLEGLAYNVVSWIDDVLYVDRTVRNRDD |
| 2149 | sp|Q8DD54|RPOH\_VIBVU | MTTQAYPMALVTQDSLDGYIRSVNSYPMLTADEERDLAERLHYKGEIEAAKGLILSHLRFVVHVARGYSGYGLPMADLVQEGNIGLMKAVKRFNPEVGVRLVSFAVHWIKAEIHEYVLRNWRIVKIATTKAQRKLFFNLRKSKKRLGWFNNGEVETVARELGVEPAEVREMESRLAAVDSTFDLPNEEDDSSSVSTAPVLYLEDKSSDVADNLEAQNWEAHTNNRLAMALASLDERSQHIVRSRWLDDDKATLQDLAEMYGVSAERIRQLEKNAMKKLKMAVGEI |
| 2150 | sp|Q9AL94|RUBR\_CLOAB | MKKYVCVVCGYIYDPAEGDPDNGVNPGTSFEDIPDDWVCPLCGVGKDQFEPSEE |
| 2151 | sp|B9DK35|SCDA\_STACT | MISKSDIVANVVTDYPKTADVFKRSGIDFCCGGQVSIEEAAEEKKKISLDDLLNELETVRKQDNSADGLNPKYLSIPSLIQYIQDAYHKPMKEEFKNLTPYVTKLAKVHGPNHPYLLELKELYTTFKNNMLEHTEKEDNEDFPQLIAFAEGKDIKNINAIIQDLKSDHDNTGVILRKMAELTNNFQPPAEACGTWRLVYTRIVALENATLQHVHLENHVLFEKCLEKENS |
| 2152 | sp|P0AEV2|RSSB\_ECO57 | MTQPLVGKQILIVEDEQVFRSLLDSWFSSLGATTVLAADGVDALELLGGFTPDLMICDIAMPRMNGLKLLEHIRNRGDQTPVLVISATENMADIAKALRLGVEDVLLKPVKDLNRLREMVFACLYPSMFNSRVEEEERLFRDWDAMVDNPAAAAKLLQELQPPVQQVISHCRVNYRQLVAADKPGLVLDIAALSENDLAFYCLDVTRAGHNGVLAALLLRALFNGLLQEQLAHQNQRLPELGALLKQVNHLLRQANLPGQFPLLVGYYHRELKNLILVSAGLNATLNTGEHQVQISNGVPLGTLGNAYLNQLSQRCDAWQCQIWGTGGRLRLMLSAE |
| 2153 | sp|O00141|SGK1\_HUMAN | MTVKTEAAKGTLTYSRMRGMVAILIAFMKQRRMGLNDFIQKIANNSYACKHPEVQSILKISQPQEPELMNANPSPPPSPSQQINLGPSSNPHAKPSDFHFLKVIGKGSFGKVLLARHKAEEVFYAVKVLQKKAILKKKEEKHIMSERNVLLKNVKHPFLVGLHFSFQTADKLYFVLDYINGGELFYHLQRERCFLEPRARFYAAEIASALGYLHSLNIVYRDLKPENILLDSQGHIVLTDFGLCKENIEHNSTTSTFCGTPEYLAPEVLHKQPYDRTVDWWCLGAVLYEMLYGLPPFYSRNTAEMYDNILNKPLQLKPNITNSARHLLEGLLQKDRTKRLGAKDDFMEIKSHVFFSLINWDDLINKKITPPFNPNVSGPNDLRHFDPEFTEEPVPNSIGKSPDSVLVTASVKEAAEAFLGFSYAPPTDSFL |
| 2154 | sp|Q9SCK6|NAC62\_ARATH | MNQNLHVLSMDSLPVGLRFRPTDEELIRYYLRRKINGHDDDVKAIREIDICKWEPWDLPDFSVIKTKDSEWLYFCPLDRKYPSGSRQNRATVAGYWKATGKDRKIKSGKTNIIGVKRTLVFHAGRAPRGTRTNWIIHEYRATEDDLSGTNPGQSPFVICKLFKKEELVLGEEDSKSDEVEEPAVSSPTVEVTKSEVSEVIKTEDVKRHDIAESSLVISGDSHSDACDEATTAELVDFKWYPELESLDFTLFSPLHSQVQSELGSSYNTFQPGSSNFSGNNNNSFQIQTQYGTNEVDTYISDFLDSILKSPDEDPEKHKYVLQSGFDVVAPDQIAQVCQQGSAVDMSNDVSVTGIQIKSRQAQPSGYTNDYIAQGNGPRRLRLQSNFNGINTKNPELQAIKREAEDTVGESIKKRCGKLMRSKNVTGFVFKKITSVKCSYGGLFRAAVVAVVFLMSVCSLTVDFRASAVS |
| 2155 | sp|Q9SN78|MYB94\_ARATH | MGRPPCCDKIGVKKGPWTPEEDIILVSYIQEHGPGNWRSVPTHTGLRRCSKSCRLRWTNYLRPGIKRGNFTEHEEKMILHLQALLGNRWAAIASYLPERTDNDIKNYWNTHLKKKLKKMNDSCDSTINNGLDNKDFSISNKNTTSHQSSNSSKGQWERRLQTDINMAKQALCDALSIDKPQNPTNFSIPDLGYGPSSSSSSTTTTTTTTRNTNPYPSGVYASSAENIARLLQNFMKDTPKTSVPLPVAATEMAITTAASSPSTTEGDGEGIDHSLFSFNSIDEAEEKPKLIDHDINGLITQGSLSLFEKWLFDEQSHDMIINNMSLEGQEVLF |
| 2156 | sp|Q09863|NST1\_SCHPO | MNDKALRTEALSVGLEPPSFKDLLIPIPNSGTKKKNKKKKKPKAKKNVETQANVDLLGSAGTDSAVTDVGANNGVIDHQASLELSNLNSRISHPQLVSANGDDSSLINVEGISSTDWQFTLESDDTIEHSPQCILSTSSFVDEAEFPVHIPGLEDATSSNMSPNSVQNNMNLNTVALGSSTSSKRKKKKKKKSKANSASLNVDDQRDFEQVYSTDVAITYRNGQALSYYNGSVRQASMNNNVNNNKSKDIWSSSNTEEREQIREFWLSLSESERRSLVKVEKEAVLQKMKEQQKYSCSCSVCGRKRLAIEEELEVLYDAYYEELEQYANIQRNLANTESVNASDEGSDKSQKGIISDSPKLLSIPLNNVPSKSLNDDITQDELNSSNADVDEEVIETTSLEEKNVDNQEFVTSISNGNQTLEDTSHSPQTQPPFQPPYPSKADEKNSYHSDLYNFGSSLTVKGGILTVADDLLKNDGKKFIEMMEQLAERRMQREDNSNFHEPELYESGLEYDEDEEEDEEDVDEDELDLMTDEQRMEEGRRMFQIFAARLFEQRVLQAYREKVAQQRQAKLLEEIEEENKRKQERELKKIREKEKKRDKKKQLKLAKEEERQRREAERLAEQAAQKALEAKRQEEARKKREEQRLKREQEKKQQELERQKREEKQKQKEREKKLKKQQQEADREKMAREQRLREEEEKRILEERKRREKLDKEEEERRRRELLEKESEEKERRLREAKIAAFFAPNQTKEGSDGCTTSSQLGLFEKKGDLVNDEDKLSSHLLDSVPNALRQAPIGLKNTNNLSERNASSNLLNSSLFSSFNSVNPLISLEPNPLNRTLNNSVNLTDFGRKPNGLHSPSSLLSNSNNFGLNPNARHSLSRANSPVHHYPFATPPSQRANKYPLNNGANVPALLNSFSSPQLSPLVNRVLNEPSSSPLSSSSLKSPLSKEGVLNQQGHEQYNFSLSPSIRNKLSPICRPSQGSSPKLKNNLSNTEERMGSRALLDDKTDSVITASNSTTSGLSRDESSNPNNYELLNAFNQNTWKISRSTSNKSLIPESPWGVALGAFTPNASTQSIPWGNRTWTD |
| 2157 | sp|Q47421|OUSA\_DICD3 | MKLKRKRVKPIALDDVTIIDDGRLRKAITAAALGNAMEWFDFGVYGFVAYALGQVFFPGADPGVQMIAALATFSVPFLIRPLGGVFFGALGDKYGRQKILAITIIIMSISTFCIGLIPSYERIGIWAPILLLLAKMAQGFSVGGEYTGASIFVAEYSPDRKRGFMGSWLDFGSIAGFVLGAGVVVLISTLIGEQAFLAWGWRLPFFLALPLGLIGLYLRHALEETPAFRQHVEKLEQNDRDGLKAGPGVSFREIATHHWKSLLVCIGLVIATNVTYYMLLTYMPSYLSHSLHYSENHGVLIIIAIMIGMLFVQPVMGLLSDRFGRKPFVVIGSVAMFFLAVPSFMLINSDIIGLIFLGLLMLAVILNAFTGVMASTLPALFPTHIRYSALASAFNISVLIAGLTPTVAAWLVESSQNLYMPAYYLMVIAVIGLLTGLFMKETANKPLKGATPAASDLSEAKEILQEHHDNIEHKIEDITQQIAELEAKRQLLVAQHPRIND |
| 2158 | sp|Q9GN62|PAR4\_CAEEL | MDAPSTSSGAQSKLLMPGDDEADEDHQNRGDPNLQQKQKIQLNVDPDYDDDEDDDCFIDGCEASAPITRELVDGAIERRSKDRNVKMSIGVYDEYDDDDDDEEETEEDQRRRFVEGIRNIRHKQQESFDLEEHPIPVESEAMRQFINQQVNNAMMFNQDNSEFQHIEFEPIVKQKGPKIIEGYMWGGQIGTGSYGKVKECIDMYTLTRRAVKIMKYDKLRKITNGWENIRSEMSILRRMNHRNVIKLIEIFNIPAKGKVYMVFEYCIGSVQQLLDMEPARRLTIGESHAIFIELCQGLNYLHSKRVSHKDIKPGNLLVSIDFTVKICDFGVAEQINLFQRDGRCTKVNGTPKFQPPECIYGNHDFFDGYKADMWSAGVTLYNLVSGKYPFEKPVLLKLYECIGTEPLQMPTNVQLTKDLQDLLTKLLEKDFNERPTCLETMIHPWFLSTFPEDQGLGRIMERMRTGDRPLTMLSSMTALYDGITPEDELIIEDNLGIIQQILPINLTSEAVLERGSFPGFKFLEAKPGDGPDGVEGSEDSAAPLGPQRRPSSRSMPTCAPPGPAAGNAQNSTAENGAETDGVASASDPPPTAAPGAPPRRRKRNFFSCIFRSRTDSA |
| 2159 | sp|Q56YP2|PI5K1\_ARATH | MSDSEEDEEEEEASEVILSSVVQKKKKKNLRFGEEVERRDGLVLLAQSTPMVRSRSQGTTRRVTPTPLVDVEKPLPNGDLYIGSFSGGFPHGSGKYLWKDGCMYEGDWKRGKASGKGKFSWPSGATYEGEFKSGRMEGFGTFTGADGDTYRGTWVADRKHGHGQKRYANGDFYEGTWRRNLQDGRGRYVWRNGNQYTGEWRSGVISGKGLLVWPNGNRYEGLWENGIPKGNGVFTWSDGSSCVGAWNESNIMRSFFNGVEKNDLIVGNRKRSSVDSGAGSLGGEKVFPRICIWESDGEAGDITCDIIDNVEASMIYRDRISVDRDGFRQFKKNPCWFNGEAKKPGQTISKGHKKYDLMLNLQLGIRYSVGKHASIVRDLKQTDFDPKEKFWTRFPPEGTKTTPPHQSVDFRWKDYCPLVFRRLRELFQVDPAKYMLAICGNDALRELSSPGKSGSFFYLTQDDRFMIKTVKKSEVKVLLRMLPSYYKHVCQYENSLVTRFYGVHCVKPVGGQKTRFIVMGNLFCSEYRIQRRFDLKGSSHGRSTAKPEGEIDETTTLKDLDLNFSFRLQRNWYQELMKQIKRDCEFLEAERIMDYSLLVGVHFRDDNTGEKMGLSPFVLRSGRIDSYQNEKFMRGCRFLEAELQDMDRILAGRKPSIRLGANMPAKAERMARRSDFDQYSSGGASYPSHGEMYEVVLYFGVIDILQDYDITKKIEHAYKSLQADPASISAVDPKLYSKRFRDFISRIFIEEG |
| 2160 | sp|P81665|PSBO\_PINPS | LTYDEIQSKGGSTGYDNAVALPAGGR |
| 2161 | sp|Q9M7T0|PRX2F\_ARATH | MAMSILKLRNLSALRSAANSARIGVSSRGFSKLAEGTDITSAAPGVSLQKARSWDEGVSSKFSTTPLSDIFKGKKVVIFGLPGAYTGVCSQQHVPSYKSHIDKFKAKGIDSVICVSVNDPFAINGWAEKLGAKDAIEFYGDFDGKFHKSLGLDKDLSAALLGPRSERWSAYVEDGKVKAVNVEEAPSDFKVTGAEVILGQI |
| 2162 | sp|Q9FY35|PRR3\_HESAR | VKFDIKNQCGYTVWAAGLPGGGKEFDQGQTWTVNLAAGTASARFWGRTGCTFDASGKGSCRSGDCGGQLSCTVSGAVPATLAEYTQSDQDYYDVSLVDGFNIPLAINPTNTKCTAPACKADINAVCPSELKVDGGCNSACNVLQTDQYCCRNAYVNNCPATNYSKIFKNQCPQAYSYAKDDTATFACASGTDYSIVFCP |
| 2163 | sp|Q92F42|RADA\_LISIN | MAKAKRTTKFVCQSCGYESAKWMGKCPNCNEWNQMVEALEPSKKSRSAFNHTGEPSKATPITQIASEEEARVETNMPELNRVLGGGVVPGSMVLVGGDPGIGKSTLLLQVSAQLTLTNKKVLYISGEESIKQTKLRAERLQVSGDNLYVYAETNLEAVQETIDFVKPDFVVIDSIQTVYHPDVTSAAGSVSQVRECTAALMRIAKMQNIAIFIVGHVTKEGAIAGPRLLEHMVDTVLYFEGERHHAYRILRAVKNRFGSTNEMGIFEMRDIGLVEVANPSEVFLEERLEGASGSTVVASMEGTRPVLVEIQALVSPTMFGNAKRMATGIDYNKVSLIMAVLEKRVGLMLQNQDAYLKAAGGVKLDEPAVDLAVAVSVASSYRDKPTRSTDCFIGELGLTGEIRRVARIEQRVQEAAKLGFKRIFIPKNNEGTWKVPKDVQVVGVETIGEALKKALPD |
| 2164 | sp|O83985|RADA\_TREPA | MAKKTERAFSCVGCGYVHPKWLGRCPECGEWNSFEETPSLSSGDVRAVKKASSSPVQAFPLCAVRAQDAQRISCGIAEFDRVLGGGAVRRSAIMIGGEPGIGKSTLLLQIAAACGKSVLYVSGEESPGQIRGRADRLNIPIQNIELLCATRVEDVERVLNTRCPTFVIVDSIQTVFSPEAGAIPMTINQLKYCANELIAWVKERDSVLFFTAHVTKDGNIAGPKVVEHMVDTVISFERNEEDIRFLRALKNRFGSVDELGIFTMGENGLSAVQDTAGFFISTRQGMFPVGSATVPVCEGSRVFMVEIQALTVPAKSSVTRVFSDRIDSARVSRVAAVIEKRVGLKFSDQDIYVNVAGGIRLYEPAVDVALAMALYSARQNTPVKTNAAFIGEVSLSGEIRPVRRLKTRLKTAYGLGFSTIYVPIGVEHDTPPPYTLRVVGTLAQTIAEIFSKAKA |
| 2165 | sp|P0DD78|RADA\_STRP3 | MAKKKATFICQECGYQSPKYLGRCPNCSAWSSFVEEVEVKEVKNARVSLAGEKSRPVKLKDVDNISYHRTQTDMSEFNRVLGGGVVPGSLILIGGDPGIGKSTLLLQVSTQLANKGTVLYASGEESAEQIKLRSERLGDIDNEFYLYAETNMQAIRTEIENIKPDFLIIDSIQTIMSPDITGVQGSVSQVREVTAELMQLAKTNNIATFIVGHVTKEGTLAGPRMLEHMVDTVLYFEGERHHTFRILRAVKNRFGSTNEIGIFEMQSGGLVEVLNPSQVFLEERLDGATGSAVVVTMEGSRPILAEVQSLVTPTVFGNARRTTTGLDFNRVSLIMAVLEKRCGLLLQNQDAYLKSAGGVKLDEPAIDLAVAVAIASSYKEKPTSPQEAFLGEIGLTGEIRRVTRIEQRINEAAKLGFTKVYAPKNALQGIDISQGIEVVGVTTVGQVLKAVFS |
| 2166 | sp|P65954|RADA\_MYCBO | MANARSQYRCSECRHVSAKWVGRCLECGRWGTVDEVAVLSAVGGTRRRSVAPASGAVPISAVDAHRTRPCPTGIDELDRVLGGGIVPGSVTLLAGDPGVGKSTLLLEVAHRWAQSGRRALYVSGEESAGQIRLRADRIGCGTEVEEIYLAAQSDVHTVLDQIETVQPALVIVDSVQTMSTSEADGVTGGVTQVRAVTAALTAAAKANEVALILVGHVTKDGAIAGPRSLEHLVDVVLHFEGDRNGALRMVRGVKNRFGAADEVGCFLLHDNGIDGIVDPSNLFLDQRPTPVAGTAITVTLDGKRPLVGEVQALLATPCGGSPRRAVSGIHQARAAMIAAVLEKHARLAIAVNDIYLSTVGGMRLTEPSADLAVAIALASAYANLPLPTTAVMIGEVGLAGDIRRVNGMARRLSEAARQGFTIALVPPSDDPVPPGMHALRASTIVAALQYMVDIADHRGTTLATPPSHSGTGHVPLGRGT |
| 2167 | sp|P0C5C8|REHYA\_ORYSI | MPGLTIGDTVPNLELDSTHGKIRIHDFVGDTYIILFSHPGDFTPVCTTELAAMAGYAKEFDKRGVKLLGISCDDVQSHKDWIKDIEAYKPGNRVTYPIMADPSREAIKQLNMVDPDEKDSNGGHLPSRALHIVGPDKKVKLSFLYPSCVGRNMDEVVRAVDALQTAAKHAVATPVNWKPGERVVIPPGVSDDEAKEKFPQGFDTADLPSGKGYLRFTKVG |
| 2168 | sp|Q08298|RD22\_ARATH | MAIRLPLICLLGSFMVVAIAADLTPERYWSTALPNTPIPNSLHNLLTFDFTDEKSTNVQVGKGGVNVNTHKGKTGSGTAVNVGKGGVRVDTGKGKPGGGTHVSVGSGKGHGGGVAVHTGKPGKRTDVGVGKGGVTVHTRHKGRPIYVGVKPGANPFVYNYAAKETQLHDDPNAALFFLEKDLVRGKEMNVRFNAEDGYGGKTAFLPRGEAETVPFGSEKFSETLKRFSVEAGSEEAEMMKKTIEECEARKVSGEEKYCATSLESMVDFSVSKLGKYHVRAVSTEVAKKNAPMQKYKIAAAGVKKLSDDKSVVCHKQKYPFAVFYCHKAMMTTVYAVPLEGENGMRAKAVAVCHKNTSAWNPNHLAFKVLKVKPGTVPVCHFLPETHVVWFSY |
| 2169 | sp|P81080|RBL\_PINPS | DTDILAAFRVTPQPGVPPEEAGAADVTLGFVDLLRWSPELAAACEIWK |
| 2170 | sp|P0A7J0|RIBB\_ECOLI | MNQTLLSSFGTPFERVENALAALREGRGVMVLDDEDRENEGDMIFPAETMTVEQMALTIRHGSGIVCLCITEDRRKQLDLPMMVENNTSAYGTGFTVTIEAAEGVTTGVSAADRITTVRAAIADGAKPSDLNRPGHVFPLRAQAGGVLTRGGHTEATIDLMTLAGFKPAGVLCELTNDDGTMARAPECIEFANKHNMALVTIEDLVAYRQAHERKAS |
| 2171 | sp|Q42694|RUBA\_CHLRE | MAQSQLAKGSRQTTGRPFQNKPARAARRLVIRAADAKEIVFDQESRRRLQAGINKVADAVGVTLGPRGRNVVLEQKFGVPQVINDGVSIRRAIELKDPVENAGAQLIKEVAGRTNDAAGDGTTTASVLAREMIHYGLQSVTAGANPIAVKRGLDKTAEYLVAKLKEHAKPVKGRDDIKNVASISAGNDNAIGEMIADALDKVGSNGVLSIETSNSTETVVEVQEGMEIDRGYISPQFVTNQERLLVEYDNCRVLVTDQKIDAIRDIIPILEQVTRLNAPLLIIAEDVSGEALATLVVNKLRGVLNVCAIKAPGFGERRKSLLQDIAIVTGAEFIAKDLGMKVEQAVVEQLGVARKVTVANNTTTLIADAASKDEIEMRIAQLKKELAETDSVYDTEKLSERIAKLSGGVAVIKVGAATEAELEDRKLRIEDAKNATFAAVEEGIVPGGGAALLHLSELVPAFKETLTDAEEKLGADIVMKSLRAPCRLIADNAGVEGEVIVQRLLGKPFEVGYNAMIDKVENLLDAGVIDPAKVTRNGLLNSVSIAGIMLTTQAVMVEKHKPSEIPGGMTASGMPSGMTI |
| 2172 | sp|Q9C9U5|SIS8\_ARATH | MKVKEETLKNLGDGVVLRPVDHCSSIWSMKMNMKNFLKKLHISPNQSDEAEGSISTTKSNHHKSIDVSSSSSPRSHHSNSPEIKPFSGLSNWLSSVGHRKIPSPPNSFNAKNRAATVDDTVVVNGSEHVDLGSKDPAVEEENQIQLALELSAREDPEATQIEAIKQFSLGSCAPENSPAELIAYRYWNYNCLGYDDKILDGFYDLYGVLNASSAERIPPLLDLQGTPVSDGVTWEAVLVNRSGDSNLLRLEQMALDIAAKSRSVSSSGFVNSELVRKLAILVGDYMGGPVVHPESMLRAWRSLSYSLKATLGSMVLPLGSLTIGLARHRALLFKVLCDSVGVPCRIVKGQQYTGSEDVAMNFIKADDGREYIVDLMGDPGTLIPADAAGLQIDYDESAYSASPGDNDSIHVASSSNGIESSYEENTEFRTGEHRSSTKSSGERNQSGGGGDLIVHPNISREDVKNQKKVEKAPFQNLSSRPIHSFTHMRSPSWTEGVSSPAAQRMKVKDVSQYMIDAAKENPRLAQKLHDVLLESGVVAPPNLFSEVYPQQLEATVESKNSTEAKKERGKDLETTQEGRHQNGFGPVRFLPPLPRVQSKTNAHDQRDNGKVVSQSDSSHSEASSTEYARTVPAAVAAAAVVASSMVAAAAAKSANSDSSPIELPAAAAATATAAAVVATAAAVSRQLELGSNSDGDDGSGGHEPQGSGDSNHGPNSGGERISDKSIGNESSKSDCDDVSDCEILWEEITVGERIGLGSYGEVYRGDWHGTEVAVKKFLDQDLTGEALEEFRSEVRIMKKLRHPNIVLFMGAVTRPPNLSIVTEFLPRGSLYRLIHRPNNQLDERRRLRMALDAARGMNYLHSCNPMIVHRDLKSPNLLVDKNWVVKVCDFGLSRMKHSTYLSSKSTAGTAEWMAPEVLRNEPADEKCDVYSYGVILWELFTLQQPWGKMNPMQVVGAVGFQHRRLDIPDFVDPAIADLISKCWQTDSKLRPSFAEIMASLKRLQKPVTGSNIPRPVPSSSSLPTEHEQKD |
| 2173 | sp|Q5BKK4|SGK1\_XENTR | MRTKNEKSPLKAFMKQRRMGLNDFIQKIATNSSYACKHSEVQSILNISPPQEPELLNENSSPPPSPSQQINLGPSSNPHAKPSDFQFLKIIGKGSFGKVLLARHNADEKFYAVKVLQKKAILKKKEEKHIMSERNVLLKNVKHPFLVGLHFSFQTTSRLYFILDYINGGELFYHLQRERCFLEPRARFYAAEIASALGYLHSLNIVYRDLKPENILLDSQGHIILTDFGLCKENIEPNGTTSTFCGTPEYLAPEVLHKQPYDRTVDWWCLGAVLYEMLYGLPPFYSRNTAEMYDNILNKPLQLKPNITNSARNLLEGLLQKDRTKRIGAKNDFMEIKNHMFFSPINWDDLINKKITPPFNPNVSGPSDLQHFDPEFTEEPVPNSIGQSPDSILITASIKEAAEAFMGFSYAPPMESYL |
| 2174 | sp|D4ARB8|SHO1\_ARTBC | MARFQMSNLVGDPFALATVSIGMLAWIIGVVSCSIAHTKEVVPNFFWWSIAYQLCVLVGVAVVMGSNTSHIYGTAVVGYAAAGLVCTTFTLDSLVTSKQGARQSAGAGLILLAMTDIVWIFYFGSTSQSGPRAYIDSFAPHKEQPHSYRNSKPISHSYTPRPETTVSSAHPHMYSSAPLSGFETSSPMTGFNPAAASTTGLQPVLGSQTNASTVGGETGEVGQPTEYPYRAKAIYSYEANPDDANEISFTKHEILEVSDVSGRWWQAKKSTGETGIAPSNYLILL |
| 2175 | sp|B9W8T5|SHO1\_CANDC | MGFSLLNFTGDPFAISTVSFGIMSWVVAIAGAASSKQQTFPHFSWWGISYQIVIILIIFVLYANNNIELYKFTLVGLVSIAFIYTTNSTNNLIYNSNSPGNLCCAAGCILLSILNLIWILYFGGHPESPTNQFIDSFSIRGQGHEQLGSGSHNHNHNLNNANTNTNTNMPLGGGNGIIGKSELSPYDDRFASPINISGGTNQPTSESLRLASVGQMGNGPFSNTTGNPNLQQPLTGSFGGSTNHTPTNANTNTNTTTTNNNNNNTGYMTSSHLTGLENFSSPNVPNNGIGLTRDLTHNSNSLNNNSHNGATGSINNSNNTNKRNTIYTDSETGTGITFRYKAKALYSYDANPDDINEISFVKDEILEVDDIDGKWWQARRANGQVGICPSNYVKLLDT |
| 2176 | sp|Q9ESN0|NIBA1\_RAT | MGGSASSQLDEGKCAYIRGKTEASIKNFSPYYSRQYSVAFCNHVRSEVEQQRDLTSQFLKTKPPLEPGTVLYEAELSQFAEDIRKWKDRYVVVKNDFAVESYENKEAYQRGAVPKSRILPAGGKVLTSEEEYSLLSDKHFPDPTASSEKNSQPFLVLPKAFPVYLWQPYLRHGYFCFHEAAEQQKFSALLNDCIRHLNHDYMKQTTFEAQAFLEAVQFFRQEKGHYGAWEVITGDEVQILSKLVMEELLPTLQTDLLPKLKGKKNDRKRAWFGLLEEAYNLVQHQVSEGLSALKEECRALTKDLEGTIRSDMDQIVNSKNFLTGKIRAMVAQPAENRCGESVQPFLASILEELMGPVSSGFSEVRALFEKEVDELSQSFHTTQDGAQLKECLDQLMKLPLDSVKMEPCYTKVTLLPERLLDLQSRFRFPHVDLVVQRTQNYMQELMENAVFTFEQLLSPYLQGEASRTAVAIEKVKLRVLKQYDYDSSTIRKKIFQEALIQITLPTVQKALASTCKPELQKYEQFIFADHTNMIHVENIYEEILYQILLDETLKVITEAAILKKHNLFEDNMALPSESVSSLTDLKTSMGSNQASPARGASAILPGAPGDEAPGSEVFQGPEEKQQQPGVPGSLAREESASISGSSPPSGEDGQVSVSGVDNSAGNPLSADNSAGPLSSHLSEAEAGEPPKDEETAHKRPESSAVPGSLRELKELLTVTVFVESAPEIGNDTLNGTPVPQEDKKEEEEEEESKIHPEASGPAAIQQDSCEESEVREREAHPMPLEAEAPGVNLGTLPEGRGPTSQSTGEGLTENTSCLGPIEEPSEAQGPTEEVLLATVSTQDSTEAGGEAVHSVTVTPQEDATLSSNPICPVENNEGPQVSEDQEVLGGNDSPALAMDTEQINDAHVYECHWEVEDAPSADILDVHDCDVGSPGEW |
| 2177 | sp|P67430|NEMR\_ECOLI | MNKHTEHDTREHLLATGEQLCLQRGFTGMGLSELLKTAEVPKGSFYHYFRSKEAFGVAMLERHYAAYHQRLTELLQSGEGNYRDRILAYYQQTLNQFCQHGTISGCLTVKLSAEVCDLSEDMRSAMDKGARGVIALLSQALENGRENHCLTFCGEPLQQAQVLYALWLGANLQAKISRSFEPLENALAHVKNIIATPAV |
| 2178 | sp|P64454|ORTT\_ECOL6 | MSLYQHMLVFYAVMAAIAFLITWFLSHDKKRIRFLSAFLVGATWPMSFPVALLFSLF |
| 2179 | sp|P50703|OS35\_SOLCO | MSHLTTCLVFFLLAFVTYTNASGVFEVHNNCPYTVWAAATPIGGGRRLERGQSWWFWAPPGTKMARIWGRTNCNFDGAGRGWCQTGDCGGVLECKGWGKPPNTLAEYALNQFSNLDFWDISVIDGFNIPMSFGPTNPGPGKCHPIQCVANINGECPGSLRVPGGCNNPCTTFGGQQYCCTQGPCGPTDLSRFFKQRCPDAYSYPQDDPTSTFTCQSWTTDYKVMFCPYGSTHNETTNFPLEMPTSTLEVA |
| 2180 | sp|Q8DRP0|RADA\_STRR6 | MEEVEVAEVKNARVSLTGEKTKPMKLAEVTSINVNRTKTEMEEFNRVLGGGVVPGSLVLIGGDPGIGKSTLLLQVSTQLSQVGTVLYVSGEESAQQIKLRAERLGDIDSEFYLYAETNMQSVRAEVERIQPDFLIIDSIQTIMSPEISGVQGSVSQVREVTAELMQLAKTNNIAIFIVGHVTKEGTLAGPRMLEHMVDTVLYFEGERHHTFRILRAVKNRFGSTNEIGIFEMQSGGLVEVLNPSQVFLEERLDGATGSSIVVTMEGTRPILAEVQALVTPTMFGNAKRTTTGLDFNRASLIMAVLEKRAGLLLQNQDAYLKSAGGVKLDEPAIDLAVAVAIASSYKDKPTNPQECFVGELGLTGEIRRVNRIEQRINEAAKLGFTKIYVPKNSLTGITLPKEIQVIGVTTIQEVLKKVFA |
| 2181 | sp|P0DD79|RADA\_STRPQ | MAKKKATFICQECGYQSPKYLGRCPNCSAWSSFVEEVEVKEVKNARVSLAGEKSRPVKLKDVDNISYHRTQTDMSEFNRVLGGGVVPGSLILIGGDPGIGKSTLLLQVSTQLANKGTVLYASGEESAEQIKLRSERLGDIDNEFYLYAETNMQAIRTEIENIKPDFLIIDSIQTIMSPDITGVQGSVSQVREVTAELMQLAKTNNIATFIVGHVTKEGTLAGPRMLEHMVDTVLYFEGERHHTFRILRAVKNRFGSTNEIGIFEMQSGGLVEVLNPSQVFLEERLDGATGSAVVVTMEGSRPILAEVQSLVTPTVFGNARRTTTGLDFNRVSLIMAVLEKRCGLLLQNQDAYLKSAGGVKLDEPAIDLAVAVAIASSYKEKPTSPQEAFLGEIGLTGEIRRVTRIEQRINEAAKLGFTKVYAPKNALQGIDISQGIEVVGVTTVGQVLKAVFS |
| 2182 | sp|P85086|RCA\_ARAHY | GLAYDISDDQQDITRGMVDSLFQAPMNDGTHYAVMSSYEYISQGLRVPLILGIWGGKMGINPIMMSAGELESGNAGEPAKMCCLFINDLDAGAGRVPIIVTGNDFSTLYAPLIRIGVCTGIFRLVDTFPGQSIDFFGALR |
| 2183 | sp|Q8GY84|RH10\_ARATH | MEEENEVVKTFAELGVREELVKACERLGWKNPSKIQAEALPFALEGKDVIGLAQTGSGKTGAFAIPILQALLEYVYDSEPKKGRRPDPAFFACVLSPTRELAIQIAEQFEALGADISLRCAVLVGGIDRMQQTIALGKRPHVIVATPGRLWDHMSDTKGFSLKSLKYLVLDEADRLLNEDFEKSLNQILEEIPLERKTFLFSATMTKKVRKLQRACLRNPVKIEAASKYSTVDTLKQQYRFVAAKYKDCYLVYILSEMPESTSMIFTRTCDGTRFLALVLRSLGFRAIPISGQMTQSKRLGALNKFKAGECNILVCTDVASRGLDIPSVDVVINYDIPTNSKDYIHRVGRTARAGRSGVGISLVNQYELEWYIQIEKLIGKKLPEYPAEEDEVLSLLERVAEAKKLSAMNMKESGGRKRRGEDDEESERFLGGNKDRGNKERGGNKDKKSSKKFKR |
| 2184 | sp|P0DM81|RPOS\_SALTY | MSQNTLKVHDLNEDAEFDENGVEAFDEKALSEEEPSDNDLAEEELLSQGATQRVLDATQLYLGEIGYSPLLTAEEEVYFARRALRGDVASRRRMIESNLRLVVKIARRYGNRGLALLDLIEEGNLGLIRAVEKFDPERGFRFSTYATWWIRQTIERAIMNQTRTIRLPIHIVKELNVYLRTARELSHKLDHEPSAEEIAEQLDKPVDDVSRMLRLNERITSVDTPLGGDSEKALLDILADEKENGPEDTTQDDDMKQSIVKWLFELNAKQREVLARRFGLLGYEAATLEDVGREIGLTRERVRQIQVEGLRRLREILQTQGLNIEALFRE |
| 2185 | sp|F4IS91|RSA1\_ARATH | MHRDMYSSRGTGYGQQQYGSQSGYSQNLGSGYPGSSVSGGAEGGSQISLSSRHPSITGAPQETDIGGGYRSHLSTAASHYGTQYGSVYGSTSLSSSQPLSTNGLGSSVLDNRSGYVPTLPDSPKFASGSYLSPSSHGYGQKTDDLYSDKLSGYIPVDRRQYGEQSSSYLGRELQNEPTRRYADPSNFARQTDLYDRIDQASLLRGEQLLKMQSLHTSSVDAGVNRQTDYLTERSSTVRHSDQEAMHYGGRLESDPHGLSVRNTSSYASQHTPSLLGAVPRRNLDDYIYPESSSNPGYGVSLPPGRDYGTGKGIHSAASLDLDYPGGMLARGTGAAPRVDDLRKGDRASYLREFDLREEERRREDQRARDKEREREREREHDRERERQRERERQRARDRERERILERREKERQGERERERKRALEIKRDRTPTARATSKDTKERTPVPKSISRDARSSSLRRDAHHREASIRRSSPIKPIRRDYVCKVLSSRLVDMERDYVTLDKRYPRLFVPSEFSKVVVNWPKQKLTLSMHTAVSFEHDYIEDGGADVKSTSTKPLALKTGGKSVWNAKMVLMSGLSRTALEDLASDKFFEDRIPHICNILKFAVLKKDHSFMAIGGSWDPTDGMDPSVDQSSLIQTMLRHSKDKLHLDLSNCRHWNPFLEIHYDRVGTDGVFSYKEITVLFVPDLSECLPSFDVWRTQWLAHRKALTERDRLLSQEVKKDTVEVTKDAEKKSPGDTSGTPTTGTKKTVKKIIKRVVKRPVNDGKATGMKGEKSDVPEHVAIPETTVPKEESTGTSSNKKIVKKVAETGDTSDPSAKANEQTPAKTIVKKKIIKRVAKRKVAEIDNKMDGDSKKDGDSDEKKVMEVGKKSSDSGSVEMKPTAESLEDVKDENASKTVDVKQETGSPDTKKKEGASSSSKKDTKTGEDKKAEKKNNSETMSEGKKIDRNNTDEKEVKEKVTEKEIKERGGKDESRIQVKDRKKCEEPPRAGFILQTKRNKDSKLRSLSASLDSLLDYTDKDLDESSFEISLFAESLYEMLQYQMGSRIFEFLKKLRVKIVRQRNQRKRHQEELSVKQNEAKSQDKRQKTAEHEDKEASVISESAPGKDDKETSGKETVDGSREIADKEAVAKTKETLGSKEVTVGEAVNMEVENQDEEDDDGDDDPEEDPEEDPEEDPEEDPEEDPEECEEMDVANTEQEEPAEEPQKKEENLEKTSGTVADPITEAETDNRKEERGPNDSKTEIKPKSETEKHGKQDGGTSDAAKREETVDKELLQAFRFFDRNQAGYVRVEDMRVTIHSLGKFLSHREVKELVQSALLESNTGRDDRILYNKLVRLSL |
| 2186 | sp|P17904|RSBW\_BACSU | MKNNADYIEMKVPAQPEYVGIIRLTLSGVASRMGYTYDEIEDLKIAVSEACTNAVQHAYKEDKNGEVSIRFGVFEDRLEVIVADEGDSFDFDQKQQDLGPYTPSHTVDQLSEGGLGLYLMETLMDEVRVQNHSGVTVAMTKYLNGERVDHDTTIKNYETN |
| 2187 | sp|Q6GCL3|SCDA\_STAAS | MINKNDIVADVVTDYPKAADIFRSVGIDFCCGGQVSIEAASLEKKNVDLNELLQRLNDVEQTNTPGSLNPKFLNVSSLIQYIQAAYHEPLREEFKNLTPYVTKLSKVHGPNHPYLVELKETYDTFKNGMLEHMQKEDDVDFPKLIKYEQGEVVDDINTVIDDLVSDHIATGQLLVKMSDLTSSYEPPIEACGTWRLVYQRLKALEVLTHEHVHLENHVLFKKVS |
| 2188 | sp|P81100|SCP2\_BACSU | MAISLEKGQRIDLTKGKAGLSKLMVGLGWDPVSSGGGFFSKLLGGGGPNIDCDASVLMLENGKFTDKKNLIYFGNLKSRCGGVQHTGDNLTGDGAGDDEQIMIDLDKVPGNIDKLVFVVNIYDCVRRKQDFGMIQNAFIRVVDQSNHEEMLKYNLRDNYAGRTSLITAEIYRSGSEWKFAAVGEGTNDTRLEDIISRYV |
| 2189 | sp|Q8RXY6|SG29A\_ARATH | MSSSPDIAGILDNTKELDRLRKEQEEVLVEINKMHKKLQATPEIVEKPGDISLSKLKNLYIQAKELSESEVTVSNILLTQLDSLLPSGPTGQQRRKLEGNEQKRKRMKVDTDVTRVSPSMRNQIEAYASLKGEQVAARVTAEDAEKDEWFVVKVIHFDRETKEVEVLDEEPGDDEEGGGQRTYKLSMSCILPFPKRNDPSSTQEFIPGKHVLAVYPGTTALYKATVISTPRKRKSDEYLLEFDDDEEDGALPQRTVPFHKVVALPEGHRQ |
| 2190 | sp|Q6K3R5|NCL2\_ORYSJ | MAPPPPPTRCLPVLLLLLLVVAPLLAHGRRPFISDGGNANANANASVLRLPSAAAAAGEDMGCEMSYGFLPCTTTAWGNLFLVLAYGFLMFKSATYLSSGSEMLLQILGPGIVGGLFLPILGALPDALLILVSGLSGTKEVAQSQVLIGMGLLAGSTVMLLTLLWGSCVVVGKCDLSENSTAIDSRDTKGFSLLGSGVSTDKQTSYAARIMAISILPFIIVQIPKIFKLHSGHQITVLIGLIVAALLLLSYCLYQVFQPWIQRRRLEYTRLKHVMSGLLRHAQKHSIGRLLDDEGRPNVSVIEKLFHRIDQDNDGKLERGELQAFIVGINFEDIDWNSNLAADQVMADFDTSRNHFIEKGEFVNGMLRWLDEAKRTVTSGAYSKKFLNDFHARTRDEQTGLLDKDEEEGEADGNPTWTCIKAILLLLLGTAMAAASADPLVDAVHNFSNATHIPSFFISFIVMPLATNSSEAVSAIIFASRKKKRTLSLTFSEVYGGVTMNNTLCLAVFLALVYVRGLTWDFSSEVLIILLVCIIMGLFTSFRTDFPLWTCFVAFLLYPLSLIMVYILDYKFGWS |
| 2191 | sp|Q9C7U7|MYB20\_ARATH | MGRQPCCDKVGLKKGPWTAEEDRKLINFILTNGQCCWRAVPKLSGLLRCGKSCRLRWTNYLRPDLKRGLLSDYEEKMVIDLHSQLGNRWSKIASHLPGRTDNEIKNHWNTHIKKKLRKMGIDPLTHKPLSIVEKEDEEPLKKLQNNTVPFQETMERPLENNIKNISRLEESLGDDQFMEINLEYGVEDVPLIETESLDLICSNSTMSSSTSTSSHSSNDSSFLKDLQFPEFEWSDYGNSNNDNNNGVDNIIENNMMSLWEISDFSSLDLLLNDESSSTFGLF |
| 2192 | sp|Q9C8R8|NMAT1\_ARATH | MKRLTYPLSSLRNIVEHFHCNTFHKPISSLSISPTLKSESREPSSTQDPYSLLKQDPVDICLSLWVKSFSSPPSATFSNLTGFLSKFDLWVLAYQRTCAHVTGTFPPRNAIHANALRSLLSLQNAVTRSGGKFRWNDKMNQYVRSPKDKISMNGGEGMSKGKVRRIIESEEPIFQDRVVHEVLLMILEPFFEARFSSKSHGFRPGRNPHTVIRTIRSNFAGYLWFMKGDVSEMLDHVDVDVVMNCLQKVVKDRKVLGLIESSLKFSDKRVLKRVVEKHGNDNGLGTKRRIEREKRNKTKKKILSDDEPKPDPYWLRTFYSFAPKEAAKVPSYGYCGVLSPLLANVCLNELDRFMETKIVEYFSPCKDDSIWKESIEDGCHNPAWPEFVPSSGKEKTRKMDYIRYGGHFLIGIRGPREDAVKMRKEIIDFCDRVFGVRLDNSKLEIEHISRGIQFLDHIICRRVIYPTLRYTGSGGSIVSKKGVGTLLSVSASLEQCIRQFRRLAFVKGDKDPEPLPCNPMLYSSQSHSNSQMNKFLETMADWYKYADNRKKAVGFCAYVIRSSLAKLYAARYRLKSRAKVYSIASRDLSHPLSESSNNSAPEYSDLLRMGLVDAIEGVQFSRMSLIPSCDYTPFPRNWIPNHEQVLQEYIRLQDPKFFCGLHRSIKREGLTLPQDEISEAVWDFKTLGAWRSKYENKREADDGLQKLDSQT |
| 2193 | sp|Q7S8V3|NST1\_NEUCR | MKGNSRHPSVPPPPLAPQSPTSKATAKYTNKDGSKFITVPKGSTPADSAQPSPTITTAANAAPGPQSASTSHTQGHGLGQAEGQVQPVNKKKAKRRQKAAAKAAATQGIANPAPSNGFPSPSPSHAQQSTEADHDDSHDEHLEEFNNRRDSRASNIHENGFAQGATTSSKKSKKKKKKSHAGQNAAELPNSPQHDTYVPAPQLSQHPRPGISKEKIWNTSSQEERERIKEFWLGLSETERKELVRVEKDAVLKKMKEQQKHTCSCTVCGRKRTAIEEELEGLYDAYYEELEQYANHPNQGEAPPMLGRRPSFGSMTGMRPRGLPTSYPSHHQPSHAQIVDHGAEEDDEEEEVEEEYSEDEQDEDDYSDDEPSEELHRSDYPADFFNFGNSLTVQGGILTVADDLLKNDGKKFIEMMEQLAERRMAREEDARDQFGSPFSHSAGDRNAHYHPPADDEVDDEEYDEDYDDDEEEEYDSQDEEETMTEEQRMEEGRRMFQIFAARMFEQRVLTAYREKVARERQNMLLEELADEKRRSEERLVKKQKEAQKKKERQARKKELQAEEKARREEEKMAEEKAKKAEEDRQKEQRRQKEEEKRKQKEAQKKAEEEERRRKEAERQRRNHEREENERKARELKEREKKAREEARLKEKEAREQKEREAKEQKERQERQERQEREKREREAKAKAEMEAAKAAKDKSKQEDRAAQKAAALATTAPVPITLPKRPAQPIQTSVPAAVPALPQQPAAYASPVIPVATPAFPKVPAPAQSRQIHQQESVTTSSGPTSQPGSAVSQNPSPHTLTPILTSPGPVKPPSKSGVAVSGTQNSGVQLPSPAPSTTVNAGSKPLQSQANPFGGPSMNMPFQPTPQPPPGFSNHMQPQYPPFYNPANSYNRVAPGMMAAPPGFSAPLGGRAMSMHSPGFPGPLDSPVSSFAGLPAGLSSLLGKDNVPSHTRQGSGSFEIGPVSSSSQPISRPTPIGRPASVVHGQRRSPEFSTNGTDQAEQEVHLGSSALLEPDDTQQDFPARSHFGLLGTSAPGVRSAPGFGGGPFGMETGFSLPHQNSPWNPVPPLQHNPFVPPPPGFPSSSHHGPWSQAAPPGIMGRNPSIVERSAPWSVTLRKSLCAVCEDLGAGGSSSYDGFIPLGEIMAHMKQFTVNEKEVLDICDTEGNPSNGGGSFIVRDPLSPSGSPLIRYVPDDDASRAPYGPIKHPGDIGSPIVGSGSFHVGS |
| 2194 | sp|P32322|P5CR1\_HUMAN | MSVGFIGAGQLAFALAKGFTAAGVLAAHKIMASSPDMDLATVSALRKMGVKLTPHNKETVQHSDVLFLAVKPHIIPFILDEIGADIEDRHIVVSCAAGVTISSIEKKLSAFRPAPRVIRCMTNTPVVVREGATVYATGTHAQVEDGRLMEQLLSSVGFCTEVEEDLIDAVTGLSGSGPAYAFTALDALADGGVKMGLPRRLAVRLGAQALLGAAKMLLHSEQHPGQLKDNVSSPGGATIHALHVLESGGFRSLLINAVEASCIRTRELQSMADQEQVSPAAIKKTILDKVKLDSPAGTALSPSGHTKLLPRSLAPAGKD |
| 2195 | sp|Q9F487|PCB\_FISMU | MAISTDKTFAANTNSPWLIGNARLIDLSGQLLGAHIAHAGLIMFWAGSITISEVTRFVPGIPMYEQQMTLLPHLATLGWGVGAGGEVINTYPYFVIGILHLVASAVLGAGGLFHVFRSPAILYNSGGQVAKFHYEWNDPKKLGLILGHHLIILGFGAFLLVLKAMFFGGIYDTHIENVRLITNPTFDPMTIFSYLVGIKDSHWTLLGIASVDNLEDVIGGHIWIGSILILGGIWHILVPPFAWVRQILPIVNGEEILSYSLLGLALMAFISAVFVGYNDTVFPKEFYGENRIVIATIQWVLGILALVGYFWHSWRSRELNSNLS |
| 2196 | sp|A8X0C4|PAR4\_CAEBR | MEGPSSSSVPTASDAPSKYLLPSDSDDGIATSSAANVGARNHVTNTEKMEKEKKPSPMVLNVDPDYDYDEEDGGSCEEDQRGPPAPISREIVDGAIARRSRDRQISPGVKMSIGNYDDMEDDDEEAETPEEQKQRFLASMKRIRNQPQEAFDPPEDTEAMREFINRQVNDAMMFNRDNHIDYSPVNKPKEAKIIEGYLWGGIIGTGSYGKVKEVIDIYTITRRAAKIMKYEKLRKIPNGWDNIRSEMSILRRLNHRNIVKLIEVFNLPEKGKVYMIFEYCIGSVQNLIDMEPAHRLSIGESHAIFLELCHGLNYLHSKRVSHKDIKPGNLLLSIDMTVKICDFGVAEQICLFQSDGRCTKVNGTPKFQPPECVYGNHEYFDGYKVDMWSAGVTLYNMVSGKYPFEQQVLLRLYESIGTNPVEMPTNVELSKDLQDIIKRLLDKDFNTRPNISDVMQHPWFQTGFPEDQGLGRIMERMRTGDRPFTMYPSLQAMYDGAGSEVILDEDGNELVLPPPDLVKRGLKFFLELKILENLPGTLSLSSFPGFQTLEKRPGDGPPPSSDSGVVAAPDSASGDPLRRPSSRSMPTSAPPRPPSGAVEVVEAVAAPEAVVEDPVVEEAPAQQQEAPDRRRRGKRSLFSCIFRSRTDSS |
| 2197 | sp|Q5XJ36|PARK7\_DANRE | MAGKRALVILAKGAEEMETVIPVDVMRRAGIAVTVAGLAGKEPVQCSREVMICPDSSLEDAHKQGPYDVVLLPGGLLGAQNLSESPAVKEVLKDQEGRKGLIAAICAGPTALLAHGIAYGSTVTTHPGAKDKMMAGDHYKYSEARVQKDGNVITSRGPGTSFEFALTIVEELMGAEVAAQVKAPLILKD |
| 2198 | sp|P53872|PGA14\_YEAST | MKFSSVTAITLATVATVATAKKGEHDFTTTLTLSSDGSLTTTTSTHTTHKYGKFNKTSKSKTPNHTGTHKYGKFNKTSKSKTPNHTGTHKYGKFNKTSKSKTPNHTGTHKYGKFNKTSKSKTPNHTGTHKYGKFNKTSKSKTPNHTGTHKYGKFNKTKHDTTTYGPGEKARKNNAAPGPSNFNSIKLFGVTAGSAAVAGALLLL |
| 2199 | sp|P30302|PIP23\_ARATH | MAKDVEGPDGFQTRDYEDPPPTPFFDAEELTKWSLYRAVIAEFVATLLFLYVTVLTVIGYKIQSDTKAGGVDCGGVGILGIAWAFGGMIFILVYCTAGISGGHINPAVTFGLFLARKVSLIRAVLYMVAQCLGAICGVGFVKAFQSSHYVNYGGGANFLADGYNTGTGLAAEIIGTFVLVYTVFSATDPKRNARDSHVPVLAPLPIGFAVFMVHLATIPITGTGINPARSFGAAVIFNKSKPWDDHWIFWVGPFIGATIAAFYHQFVLRASGSKSLGSFRSAANV |
| 2200 | sp|Q43867|PME1\_ARATH | MDSVNSFKGYGKVDEAQDLALKKKTRKRLLLLSISVVVLIAVIIAAVVATVVHKNKNESTPSPPPELTPSTSLKAICSVTRFPESCISSISKLPSSNTTDPETLFKLSLKVIIDELDSISDLPEKLSKETEDERIKSALRVCGDLIEDALDRLNDTVSAIDDEEKKKTLSSSKIEDLKTWLSATVTDHETCFDSLDELKQNKTEYANSTITQNLKSAMSRSTEFTSNSLAIVSKILSALSDLGIPIHRRRRLMSHHHQQSVDFEKWARRRLLQTAGLKPDVTVAGDGTGDVLTVNEAVAKVPKKSLKMFVIYVKSGTYVENVVMDKSKWNVMIYGDGKGKTIISGSKNFVDGTPTYETATFAIQGKGFIMKDIGIINTAGAAKHQAVAFRSGSDFSVYYQCSFDGFQDTLYPHSNRQFYRDCDVTGTIDFIFGSAAVVFQGCKIMPRQPLSNQFNTITAQGKKDPNQSSGMSIQRCTISANGNVIAPTYLGRPWKEFSTTVIMETVIGAVVRPSGWMSWVSGVDPPASIVYGEYKNTGPGSDVTQRVKWAGYKPVMSDAEAAKFTVATLLHGADWIPATGVINQLS |
| 2201 | sp|P0ADY1|PPID\_ECOLI | MMDSLRTAANSLVLKIIFGIIIVSFILTGVSGYLIGGGNNYAAKVNDQEISRGQFENAFNSERNRMQQQLGDQYSELAANEGYMKTLRQQVLNRLIDEALLDQYARELKLGISDEQVKQAIFATPAFQVDGKFDNSRYNGILNQMGMTADQYAQALRNQLTTQQLINGVAGTDFMLKGETDELAALVAQQRVVREATIDVNALAAKQPVTEQEIASYYEQNKNNFMTPEQFRVSYIKLDAATMQQPVSDADIQSYYDQHQDQFTQPQRTRYSIIQTKTEDEAKAVLDELNKGGDFAALAKEKSADIISARNGGDMGWLEDATIPDELKNAGLKEKGQLSGVIKSSVGFLIVRLDDIQPAKVKSLDEVRDDIAAKVKHEKALDAYYALQQKVSDAASNDTESLAGAEQAAGVKATQTGWFSKDNLPEELNFKPVADAIFNGGLVGENGAPGINSDIITVDGDRAFVLRISEHKPEAVKPLADVQEQVKALVQHNKAEQQAKVDAEKLLVDLKAGKGAEAMQAAGLKFGEPKTLSRSGRDPISQAAFALPLPAKDKPSYGMATDMQGNVVLLALDEVKQGSMPEDQKKAMVQGITQNNAQIVFEALMSNLRKEAKIKIGDALEQQ |
| 2202 | sp|Q39491|PTP3\_CHLMO | MTSHAANPKEEQDQRLPFKSDISGPIAPSQAPAHTVQAHDSQPKPSDDSSDEHLSFYEAKARIVRAFAASRAPQPAAPAAKALEGDASVIVPGKLILSSCEVEESSELLTKLGVTHILQVGEELKPSHPGRFTYLSLPILDMEGQDIVALLPSCFQFLQQAQASGGVCLVHCLAGISRSASVVIAYLMWTQGMPYTEARAMVRRARSKVYPNTGFTLQLQELDRLRESGAIQWGDTPSLASSLEQHRQPWNLIRYLEVKEKQAQEEGWTWGRTLVI |
| 2203 | sp|Q9PN90|RADA\_CAMJE | MAKNKALFECQACGNQQSKWLGKCPDCGAWDSFVELKAEQIKVLKELAQVSMKTSEAVCIEDVELEHFTRYSTDDNELDLVLGGGLVEGSLVLIGGSPGVGKSTLLLKIASNLAKQGKKVLYVSGEESKAQIKLRADRLEANTPNLFLLTELCLENILEELHKKDYSILIVDSIQTLYSNKITSAAGSITQVREITFELMRVSKAYNISTFIIGHITKEGAIAGPRVLEHMVDVVLYFEGDATKEIRLLRGFKNRFGGTNEVGIFEMTAKGLISAKDLANRFFTRGKAISGSALGVVMEGSRALVLEVQALVCESSYPKRSATGYEKNRLDMLLALLERKLEIPLGHYDVFVNISGGVKVSETAADLAVVAAIISSFKNRPLSKDSIFIGELSLNGEIREVFSLDTRLKEAKMQKFKNAIVPSKPLEDIGLKCFVAKELSQVLEWM |
| 2204 | sp|P52560|RELA\_STRCO | MPDEAQPLTAAKPESASASAAKPAPSAPQAKNDTHGPIQHAPAAPVDKPAEQQPRPKPLPAERPQNAPVVRAPAGQPARSGSSNRVRARLARLGVQRANPYNPVLEPLLRIVRGNDPKIETSTLRQIERAYQVAERWHRGQKRKSGDPYITHPLAVTTILAELGMDPATLMAGLLHDTVEDTEYGLEDLRRDFGDVVTLLVDGVTKLDKVKFGEAAQAETVRKMVVAMAKDPRVLVIKLADRLHNMRTMRYLKREKQEKKARETLEIYAPLAHRLGMNTIKWELEDLAFAILYPKMYDEIVRLVAERAPKRDEYLAVVTDEVQQDLRAARIKATVTGRPKHYYSVYQKMIVRGRDFAEIYDLVGIRVLVDTVRDCYAALGTVHARWNPVPGRFKDYIAMPKFNMYQSLHTTVIGPGGKPVELQIRTFDMHRRAEYGIAAHWKYKQEAVAGASKVRTDAPKSSGKSKDDHLNDMAWLRQLLDWQKETEDPGEFLESLRFDLSRNEVFVFTPKGDVIALPAGATPVDFAYAVHTEVGHRTIGARVNGRLVPLESTLDNGDLVEVFTSKAAGAGPSRDWLGFVKSPRARNKIRAWFSKERRDEAIEQGKDAIVRAMRKQNLPIQRILTGDSLVTLAHEMRYSDISALYAAIGEGHVSAPNIVQKLVQALGGEEAATEEIDESVPPSRGRGRKRRANADPGVVVKGVEDVWVKLARCCTPVPGDPIIGFVTRGSGVSVHRSDCVNVDSLSREPERILEVEWAPTQSSVFLVAIQVEALDRSRLLSDVTRVLSDQHVNILSAAVQTSRDRVATSRFTFEMGDPKHLGHVLKAVRGVEGVYDVYRVTSARRPS |
| 2205 | sp|Q8QG64|RBX1\_SALSA | MAAAMDVDTPSATNSGASKKRFEVKKWNAVALWAWDIVVDNCAICRNHIMDLCIECQANQASATSEECTVAWGVCNHAFHFHCISRWLKTRQVCPLDNREWEFQKYGH |
| 2206 | sp|P0C0R7|RLME\_ECOLI | MTGKKRSASSSRWLQEHFSDKYVQQAQKKGLRSRAWFKLDEIQQSDKLFKPGMTVVDLGAAPGGWSQYVVTQIGGKGRIIACDLLPMDPIVGVDFLQGDFRDELVMKALLERVGDSKVQVVMSDMAPNMSGTPAVDIPRAMYLVELALEMCRDVLAPGGSFVVKVFQGEGFDEYLREIRSLFTKVKVRKPDSSRARSREVYIVATGRKP |
| 2207 | sp|Q7ZTW4|SGK1\_DANRE | MTIQTETSVSAPDLTYSKTRGLVANLSAFMKQRKMGLNDFIQKLSANSYACKHPEVQSILNLTPPQDVELMNSNPSPPPSPSQQINLGPSSNPTAKPSDFDFLKVIGKGSFGKVLLARHRSDEKFYAVKVLQKKAILKKKEEKHIMSERNVLLKNVKHPFLVGLHYSFQTTDKLYFVLDYINGGELFYHLQRERCFLEPRARFYAAEIASALGYLHSLNIVYRDLKPENILLDSQGHIILTDFGLCKENIEPNGTTSTFCGTPEYLAPEVLHKQPYDRTVDWWCLGAVLYEMLYGLPPFYSRNTAEMYDNILNKPLQLKPNISNAARHLLEGLLQKDRTKRLGFTDDFTEIKNHMFFSPINWDDLNAKKLTPPFNPNVTGPNDLRHFDPEFTDEPVPNSIGCSPDSALVTSSITEATEAFLGFSYAPAMDSYL |
| 2208 | sp|A1DEZ0|SHO1\_NEOFI | MAKFRASNILGDPFALATVSISILAWLIACIASIISDIKTDYPNYSWWAVAYMFCCIIGVTIVFGSDTGLVYGVAVVGYLSTGLVLTTLAVNTLVYADESSSQAAAAGFILLSMVIVVWIFYFGSSPQATHRGFIDSFALNKESSGAYGNRPMSTAFGPRPDTMSTSAPQMYTSAQLNGFETSSPVSGYPGGAPGSENRSSSQARFGNPSASNVTGNNNGQDEVPQPTEYPYKAKAIYSYDANPEDANEISFSKHEILEVSDVSGRWWQARKSNGETGIAPSNYLILL |
| 2209 | sp|P32432|SFP1\_YEAST | MDFTTMTMASNMATSTTTTATSAHASINSSSNFNIDIDSNQNTPSILINNNSDSSNGKNTDFNGVNNIHQKNIMNNTNNVHLYSPNIMDQTLLTPQDIAKLRRESIAHSQGMGGVSWGSISVGSWLRDEIISRRNSIVPASANGAASAAASATTTATNTLQIQQPTKRPSVSNPPYHRGYSISPQIAYTAYLPNLEKQYCKDYSCCGLSLPGLHDLLRHYEEAHISTSPNTTNMSQIPMNSAGNTSSSVRMTNNTSSANYNLQNNMAANTKNAGHKTNTMQAHSSNATNNTSINNMHANLQSNMDSNSTIRQSQHPHHQQNIIQQQLQSNSVNHTSGAVPTPSVMGSATASSTTANPNVISITGAPNSGLSMANHSQQLHLNGNLVDAVSTNDVFLRTSNSPSRHVPHNKQINSNNNSGININNNTSHNSNINMGSKNAMVNRPHTFNNYSLNKTSRNPIQHQSRKIDPHQTDLSPLVLVQDIDLSFMDDDILGPSNHNSMNSVVNPTTGSHNYNTFHSSVHAKSSQNMVEDQDIDDIDDDDDVDDDDDDDDDDDTENGSSSNGKSVHNNNYKMPQQAYIDDPARRLYVMDHEEQKPFKCPVIGCEKTYKNQNGLKYHRLHGHQNQKLHENPDGTFSVIDPDSTDSFGDGMGSAKDKPYRCEVCGKRYKNLNGLKYHRGHSTH |
| 2210 | sp|E7A253|SHO1\_SPORE | MPGKRGGGGGIDIGLIFAHKILTVLLLLSTVGWIVAFIGQCAAEAGSGGRQGVLWFAIFLQLFLIVAKYLLVMTDSLGTHRLQLTTFTSIALVFSVIGINSGIYSSNSSEEAVAAGWFLITLTNIVWLLFLTTEEESALYPIVNIANDGVTPPAARTSGRYNGGGGAGGQSMRMAGGGAGTGLGGAGYAAGNGSAYSGGFQGGAAGGYQPAFGNSPSAADITTANGTGLGAPKMSSAASVRSRAANDTATGGVGGISQDAPSVASHGAPASPAQPGAKGSELPDYGYKARALYAYQANADDPTEISFSKGEVLDIVDNSGKWWQARKSNGETGIVPSNYMQLL |
| 2211 | sp|Q84K00|NAC78\_ARATH | MGRGSVTSLAPGFRFHPTDEELVRYYLKRKVCNKPFKFDAISVTDIYKSEPWDLPDKSKLKSRDLEWYFFSMLDKKYSNGSKTNRATEKGYWKTTGKDREIRNGSRVVGMKKTLVYHKGRAPRGERTNWVMHEYRLSDEDLKKAGVPQEAYVLCRIFQKSGTGPKNGEQYGAPYLEEEWEEDGMTYVPAQDAFSEGLALNDDVYVDIDDIDEKPENLVVYDAVPILPNYCHGESSNNVESGNYSDSGNYIQPGNNVVDSGGYFEQPIETFEEDRKPIIREGSIQPCSLFPEEQIGCGVQDENVVNLESSNNNVFVADTCYSDIPIDHNYLPDEPFMDPNNNLPLNDGLYLETNDLSCAQQDDFNFEDYLSFFDDEGLTFDDSLLMGPEDFLPNQEALDQKPAPKELEKEVAGGKEAVEEKESGEGSSSKQDTDFKDFDSAPKYPFLKKTSHMLGAIPTPSSFASQFQTKDAMRLHAAQSSGSVHVTAGMMRISNMTLAADSGMGWSYDKNGNLNVVLSFGVVQQDDAMTASGSKTGITATRAMLVFMCLWVLLLSVSFKIVTMVSAR |
| 2212 | sp|Q8LD98|NHL6\_ARATH | MSQHQKIYPVQDPEAATARPTAPLVPRGSSRSEHGDPSKVPLNQRPQRFVPLAPPKKRRSCCCRCFCYTFCFLLLLVVAVGASIGILYLVFKPKLPDYSIDRLQLTRFALNQDSSLTTAFNVTITAKNPNEKIGIYYEDGSKITVWYMEHQLSNGSLPKFYQGHENTTVIYVEMTGQTQNASGLRTTLEEQQQRTGNIPLRIRVNQPVRVKFGKLKLFEVRFLVRCGVFVDSLATNNVIKIQSSSCKFRLRL |
| 2213 | sp|G2JZ43|OPUCB\_LISM4 | MDAIVTFFQENGHNLLVQTWQHLFISLSAVILGIAVAVPTGILLTRSPKVANFVIGVVSVLQTVPSLAILAFIIPFLGVGTLPAIIALFIYALLPILRNTFIGVRGVDKNLIESGRGMGMTNWQLIVNVEIPNSISVIMAGIRLSAVYVIAWATLASYIGAGGLGDFIFNGLNLYRPDLILGGAIPVTILALVVEFALGKLEYRLTPKAIREAREGGE |
| 2214 | sp|Q9KHT8|OPUCB\_LISMN | MDAIVTFFQENGHNLLVQTWQHLFISLSAVILGIAVAVPTGILLTRSPKVANFVIGVVSVLQTVPSLAILAFIIPFLGVGTLPAIIALFIYALLPILRNTFIGVRGVDKNLIESGRGMGMTNWQLIVNVEIPNSISVIMAGIRLSAVYVIAWATLASYIGAGGLGDFIFNGLNLYRPDLILGGAIPVTILALVVEFALGKLEYRLTPKAIREAREGGE |
| 2215 | sp|Q09423|OSM8\_CAEEL | MPAKMLKWLLIHIFLIHSIFCQDAPAQMPFFANSDPMMSKLSQIQFADAPTLKGDKYPDVDAHRIIAPIISPIMEVFDQMKENQRARDQAEKIRKDREDHPLSTSRSLWEMFQRLQRPTTTTTEAPPLIERLFKPYIEPWQKQLDDFSKDMAGITLIPTTTTTPAPTTTTTPNFLEKSLSMFFPSLRRKPQSIPTLPPTTTPTPRLFDPEMFDRLFFKRDKRQATIAPAPKFDIFTVPPPPPLFQEWEKPILSLSNPFTLNPLMKMFTTPSPPQTLAPLPKIPEPNPYEIKKGLPEPQFKLQDPFYNPLFPSRKSKMFDFLAGGEAGRLLG |
| 2216 | sp|P0AA16|OMPR\_ECOLI | MQENYKILVVDDDMRLRALLERYLTEQGFQVRSVANAEQMDRLLTRESFHLMVLDLMLPGEDGLSICRRLRSQSNPMPIIMVTAKGEEVDRIVGLEIGADDYIPKPFNPRELLARIRAVLRRQANELPGAPSQEEAVIAFGKFKLNLGTREMFREDEPMPLTSGEFAVLKALVSHPREPLSRDKLMNLARGREYSAMERSIDVQISRLRRMVEEDPAHPRYIQTVWGLGYVFVPDGSKA |
| 2217 | sp|Q8LLD0|NUP96\_ARATH | MTSLSIQPFPEISRMARDLDSRKKRRISLDGIAALCEHSKEIIDSLPMLNSPDYFLKPCINELVEREIESPDYCSRVPDFTIGRIGYGYIRFLGNTDVRRLDLDHIVKFHRHEVIVYDDESSKPVVGEGLNKAAEVTLVVNIPDLTWGKQQVNHIAYKLKQSTERQGATFISFDPDNGLWKFFVPHFSRFGLSDDEAEDIAMDDAPGLGDPVGLDGKKVADIDEEDQMETSELELSHSLPAHLGLDPEKMKEMRMLMFPNEDEDESEDFREQTSHLMTSLTKRNVRPSQKIAQRNSHQDPPPVVRKTPLALLEYNPGNDKSSPGSILMVQQNKNLAVRKSKTGGFELDISHVTPLTDNYSRNVVDAALFMGRSFRAGWGPNGVLFHTGKPICSSSSQMVLSSVINKEKIAIDKVVWDRKGKVQKELIDSAFEAPLSLHKELNHVEEEVRFGSFSLKLQNVVTDRVVLSDICRSYIGIIEKQLEVAGLSTSAKLFLMHQVMVWELIKVLFSERQSTERLMYAASDNEEDVMQDVKEDSAKIDTEALPLIRRAEFSCWLQESVSHRVQEDVSDLNGSSYLEHLFFLLTGRELDSAVELAISKGDVRLACLLSQAGGSTVNRNDILQQLHLWRRNGLDFNFIEKERIKLYELLAGNIHDALQDFTIDWKRFLGLLMWHHLPPDSSLPIIFRSYQLLLNQAKAPWPVPIYIDEGPADGFVSDNKHSDILYYLMLLHSKEEEEFGFLQTMFSAFSSTDDPLDYHMIWHHRGILEAVGAFTSDDLHTLDMGFVAQLLSQGLCHWAIYVVLHIPFREDHPYLHVTVIREILFQYCETWSSMESQRQFIKDLGIPSEWMHEALAVYYNYHGDFVKALDQFIECANWQRAHSIFMTSVAHSLFLSANHSEIWRIATSMDDRKSEIENWDLGAGIYMSFYLLKSSLQEDADTMVELEPLDSTNESCRNFVGRLNESLAVWGDRLPVEARVAYSKMAEEICDLLLSDLSKNPSRETQLTCFETAFDAPLPEDVRSTHLQDAVSLFSLYLSETGQISA |
| 2218 | sp|P0A0P4|PRMA\_STAAN | MNWTELSIIINHEAVELATNILENHGSNGVVIEDSDDLINQPEDKYGEIYALKKEDYPDKGVRLKAYFNEMTYDDKLRQQIKDELLNLDELDQHNIQFSEQIIAETDWENEWKNYFHPFRASKKFTIVPSWETYAKEADEELCIELDPGMAFGTGDHPTTSMCLKAIETYVLPQHSVIDVGTGSGILSIASHLIGVKRIKALDIDEMAVSVAKENFRRNHCETLIEAVPGNLLKDETEKFDIVIANILAHIIDEMIEDAYNTLNEGGYFITSGIIKEKYEGIQSHMERVGFKIISEQHDNGWVCLVGQKVSE |
| 2219 | sp|P0C2M5|PSTS2\_STRPN | MKFKKMLTLAAIGLSGFGLVACGNQSAASKQSASGTIEVISRENGSGTRGAFTEITGILKKDGDKKIDNTAKTAVIQNSTEGVLSAVQGNANAIGYISLGSLTKSVKALEIDGVKASRDTVLDGEYPLQRPFNIVWSSNLSKLGQDFISFIHSKQGQQVVTDNKFIEAKTETTEYTSQHLSGKLSVVGSTSVSSLMEKLAEAYKKENPEVTIDITSNGSSAGITAVKEKTADIGMVSRELTPEEGKSLTHDAIALDGIAVVVNNDNKASQVSMAELADVFSGKLTTWDKIK |
| 2220 | sp|P0AFM9|PSPB\_ECOLI | MSALFLAIPLTIFVLFVLPIWLWLHYSNRSGRSELSQSEQQRLAQLADEAKRMRERIQALESILDAEHPNWRDR |
| 2221 | sp|Q925G0|RBM3\_RAT | MSSEEGKLFVGGLNFNTDEQALEDHFSSFGPISEVVVVKDRETQRSRGFGFITFTNPEHASDVMRAMNGESLDGRQIRVDHAGKSARGTRGGAFGAHGRGRSYSRGGGDQGYGSGRYDSRPGGYGYGYGRSRDYSGSQGGYDRYSGGNYRDNYDN |
| 2222 | sp|Q9SS90|RGLG1\_ARATH | MGGGNSKEESSSPSSSSWASHQSYPQYGPDSYNYPPPPTYAPAPSPAPAPAPVPAPSPASSYGPQYSQEGYASQPNNPPPPTYAPAPSPASSYGHQYSQEGYASAASQPNYPPPPSQSQVADRKKFDRRYSKISDNYSSLLQVSEALGRAGLESSNLIVGIDFTKSNEWTGAKSFNRKSLHHLSNTPNPYEQAITIIGRTLAAFDEDNLIPCYGFGDASTHDQDVFSFYPEGRFCNGFEEVLARYREIVPQLKLAGPTSFAPIIEMAMTVVEQSSGQYHVLVIIADGQVTRSVDTEHGRLSPQEQKTVDAIVKASTLPLSIVLVGVGDGPWDMMQEFDDNIPARAFDNFQFVNFTEIMSKNKDQSRKETEFALSALMEIPPQYKATIELNLLGVRNGNIPQRIPLPPPVQSGSSFSSSRIPNFEPSVPPYPFESKQMSSADDIQLCPICLSNPKNMAFGCGHQTCCECGPDLKVCPICRAPIQTRIKLY |
| 2223 | sp|P9WJ68|RSHA\_MYCTO | MSENCGPTDAHADHDDSHGGMGCAEVIAEVWTLLDGECTPETRERLRRHLEACPGCLRHYGLEERIKALIGTKCRGDRAPEGLRERLRLEIRRTTIIRGGP |
| 2224 | sp|Q320T9|SAFA\_SHIBS | MHATTVKNKITQRDNYKEIMSVIVVVLLLTLTLIAIFSAIDQLGISEMGRIARDLTHFIINSLQD |
| 2225 | sp|P0DO98|SIGI\_BACAN | MLSLVMKILRKPKIEDIVCNIQNNEEDKEAFIVQYQPFIRKSISSVCRRYITEQDDEYSIGLFAFNEAIEQYSYKKGKSFLAFADLLIKRDVIDYIRKESKHNLVFLKEDEQEEMLEMQVSLTEYMKEIENGNRKEEILHFQSVLADFKITFSELAKESPKHRDTREHLIEIVKVIIKEEEMMEELFRKKKLPLKHIEPRVRVSRKTLERHRKYIIAMCIIFANNYTYILDYIRGGKHDE |
| 2226 | sp|Q9P864|SHO1\_CYBJA | MSTPEYSTSAKSRFDITNLTTDPFVVATWSVAMISWVIAFIGSIVANIEGSFPRFTWWGLVFQLLMLVFLPAVYCFDVVEWYRLFLTCGYSIAFIYTTNSATNLVWSGGSATGAASAGVILLSMVNLIWVFYYGSDNASPINQWIDSFSLRGPKRSSVSPFHNSRPISHDKYSGSENDEFKHSSWNNQRYMSSTALSGLENVSQGDTLETTPFNSPDHDGLGTNITAGGTNITIDEFPYTARALYNYQKSPDDENEISFEKDEILKVNDIHSRWWQAKRANGEIGICPSNYVELIE |
| 2227 | sp|O04133|SRC2\_SOYBN | MTMEYRTLELNIISAKDIKNVNLFSKMDVYAAVSLSGDPLHPQGATTHVHKDAGSNPTWNYPVKFSVNESLAKENRLSLEIKLISDRTLGDTVIGTVHVPLRELLDNPGDDSSFRQVSYQVMKQSRKSKGSLNFSYKFGEHVPAPAAKTPKAAKAGQEPVMAYPPAGAGSSSMPYGTPHPPPPQQYAATGYGYPPQQVHGGYPPQAAYGYPPQTGYGYPQQSGYGYPQQSGYGYPPQAQKPKKNKFGMGLGAGLLGGALGGMLIGDMVSDAAEYDAGYDAGFDDAGGFDF |
| 2228 | sp|Q9SRQ7|NPC4\_ARATH | MIETTKGGSGSYPIKTIVVLVQENRSFDHTLGWFKELNREIDGVTKSDPKSNTVSSSDTNSLRVVFGDQSQYVNPDPGHSIQDIYEQVFGKPWDSGKPDPNPGHPNMSGFAQNAERNKKGMSSAVMNGFKPNALPVYKELVQNFAICDRWFASVPASTQPNRLYVHSATSHGATSNDKKLLLEGFPQKTIFESLDEAGFSFGIYYQFPPSTLFYRNLRKLKYLTHFHQYGIQFKKDCKEGKLPNYVVVEQRWFDLLSTPANDDHPSHDVSEGQKLVKEVYEALRSSPQWNEILFIITYDEHGGFYDHVPTPVDGVPNPDGILGPPPYNFEFNRLGVRVPTFFISPWIEPGTVIHGPNGPYPRSQYEHSSIPATVKTIFKLKDFLSKRDSWAGTFESVITRDSPRQDCPETLSTPIKLRGTMAKENAQLSEFQEDLVIMAAGLKGDYKNEELIHKLCKETCVADASKYVTNAFEKFLEESRKARDRGCDENDIVYCVDDDDDHVVIPPQSHSEASNAAAQPKTQTSFFNKLFSCFIRHD |
| 2229 | sp|F4IED2|NAC13\_ARATH | MDLSVENGGLAPGFRFHPTDEELVVYYLKRKIRRKKLRVEAIGETDVYKFDPEELPEKALYKTRDRQWFFFSLRDRKHGSRSSRATERGYWKATGKDRVIHCDSRPVGEKKTLVFHRGRAPNGERTNWVMHEYTLHKEELKRCGGEDVKDAYVLYKIYKKSGSGPKNGEQYGAPFIEEEWAEDDDDDVDEPANQLVVSASVDNSLWGKGLNQSELDDNDIEELMSQVRDQSGPTLQQNGVSGLNSHVDTYNLENLEEDMYLEINDLMEPEPEPTSVEVMENNWNEDGSGLLNDDDFVGADSYFLDLGVTNPQLDFVSGDLKNGFAQSLQVNTSLMTYQANNNQFQQQSGKNQASNWPLRNSYTRQINNGSSWVQELNNDGLTVTRFGEAPGTGDSSEFLNPVPSGISTTNEDDPSKDESSKFASSVWTFLESIPAKPAYASENPFVKLNLVRMSTSGGRFRFTSKSTGNNVVVMDSDSAVKRNKSGGNNDKKKKKNKGFFCLSIIGALCALFWVIIGTMGGSGRPLLW |
| 2230 | sp|P53935|NST1\_YEAST | MPPNSKSKRRKNKSKQHNKKNGNSDPEQSINPTQLVPRMEPELYHTESDYPTSRVIKRAPNGDVIVEPINTDDDKKERTANLTHNKDSMDSASSLAFTLDSHWESLSPEEKKTILRIEKEEVFNVIRNYQDDHSCSCSVCGRRHLAMDQEMERIYNTLYAMDKDKDPETNPIKFHLGIIKELQISKNQQQNDLSSTKGEVVKNFLSSSTVGSLKEEVLHFKQKQLSKQEQAHNETADNTSLLEENLNNIHINKTSSEISANFNSVSDEELQQKYSNFTKTFISSHPKIAEEYVQKMMMYPNIRALTDDLMNSNGQGFLNAIEDFVRDGQIQASKKDDSITEDEASSTDLTDPKEFTTMLHSGKPLTEDEYADLQRNIAERMTNAYDTASKKFKDVSQLEKELFTRFMSGRDKKSFRELIIQSFKNKFDGELGPSVLAATLSSCFSSQSKDTSLDTDSIYEDEDEEDYDDYSEYAEDSEEVSEYEGIEAVEKPEHDEKSNGIRETLHLSYDHDHKRQNHPHHHYHSTSTHSEDELSEEEYISDIELPHDPHKHFHRDDDILDGDEDEPEEEDENEGDDEEDTYDSGLDETDRLEEGRKLIQIAITKLLQSRIMASYHEKQADNNRLKLLQELEEEKRKKREKEEKKQKKREKEKEKKRLQQLAKEEEKRKREEEKERLKKELEEREMRRREAQRKKVEEAKRKKDEERKRRLEEQQRREEMQEKQRKQKEELKRKREEEKKRIREQKRLEQEKLQKEKEEEERQRLIAEDALRKQKLNEEQTSANILSAKPFTENGVGNPVSSQSHPNMTNYQEDNSCSINDEILKMVNSVAASKPVSPTGFNVHDLLLPSTNNQMPAMEQSHLPQPGNQNNHFGTTTIPNALDLATKSSLQTENNYLMNSQTLENTSLLMHNNSSPTKLLPNDFGLSSWGGLTNTMSINPTCKPPVIQTSEMESQAHKSSPQATMPSFGLPNGGTHRKSFTDELNTLTSMLSSSGFADTSLSSSGFPPSQRSVWNDQKSSFSGPSTAGNFNNSSIQSGMLLAPTLGSVESFPNRTSIWDSSTTPMMNKSELSGRNITSTAQDSPAFMASNIWSSNSQYNSPYLTSNVLQSPQISSGVDESHILDSIYNTYLAISPQDSLNPYIAIGTLFQNLVGLNLDYSTFINKLISMQGAYNCEFFTDNNGSITHVRFARQTPAGHSKGLLNQLFSGLNDPTATPFTSRPHTSTRASFPIASSTTQTS |
| 2231 | sp|Q6CTC3|NST1\_KLULA | MVAHKKSKKKSKKQHGSAGEKELHESKIHAEIIDDEAEYPTSRVIKRAPNGDVIVESLPEEESLDRSELNQDHRSGSSSSSTNSGGVTNTADCNADADNEEVEDTKWPIKLDTHWESLSLEERRNILRISKDELFDMIKSYKNMHNCDCSMCGRHNNLNIEQEIEQIYCELYDSAREEDSDTDFVQFHLKLIKEYQNGSNNTHHHMRHHGDKQDSNICHENFAHNDNDDNNDSTNKNAFLSSILPKEKNASTSENECTNDFLDSLSEDSAIKYCLSEGAIGLDKSYQVDFLGKEEVDSNMDTIPNSDNKTQTALDWKHEIEQFKSSKQKQVSESTTGKEALPPINDIDNTNEVIPEHDEFDSKLLHFAKTVVSSHPHIAEEFINRAMMYPHIKAITEDMMNNEGEGLKRAMESLVLQQELQDWRENMAVSIEKKIYEMDPTEPVIDVSESDSHENERVNGPANALEENNKKDVIESDSLDRPSLVDNNKVDSLIDSIPFKFVKDPKAVASLKNAFYDIFTNKTRRSEIDQDDKEYKEELERLRNEISADEDQASYEWSNDEYEESNDHDEDAEGYVDDECIDDHHLDSGYDDENEDEDIIYDDLHENVKLNEDPSAVPNGHTQLIHHDNSVTSNVSEDGIDDNYDSELDHAERLEEGRRLIQIAITKLLQKKLIASYQEKEAEKNRERLLMELEAEENQKKEKEKKKLKKKEKEKEKKRQQQLAKEEEKKRQEEEEIRLKKEAEEKEIARREAQRKKVEEAKRKNDEKRKKKLAEQRRREEEQERIRKEKEEQKRQREEEQKQKKMEKERKQREFEEQRLLKKKEAEQLQKLKENQKLNEKSMQKNQDTTTEGVPYGSVSTNPLQNNSTLNDDIFNMINEVSKSLSSSPSRNQNDLLGSSVLSNVDHQGGLNAGNVFIPPSLSMSEMSPHAQAGFNTLGSSLQPNLLNGWDQQSSTQAYYHANQPSSSEAPGLLPLSHGGSSSKFSSFADTTVDVTDDVNNLTSFLKDTTINDISLGSTSSIPAQNLDPVNMAPRPQSAVYNQPNLWNNDPNQRLSNFGQQHVQQNPISSSHSQPRRSIWDTGAENTFGVASANNFASNIWDTPTSTPALPNTLLSSQVAATSVDSYEEVLAKTYKMLSPDNSFVPLDKLYQTSLTQINAKSVLSYPQFISTLVSMKNSYNTELLNDNTGLLAYCRMGSVPVPSGLPSYNRQNTFPHATTQVQSDSQQINSVSTPISNPLPQPSSVFNDVHYNQTATTSPANHGNPIPGPTSTIASDPSNFVNFGQSYPNSYQTGNIWS |
| 2232 | sp|A0A0H3CC47|NRSF\_CAUVN | MRTDDLIDALAADAGRGTEPAPPRRLALVAGLGGVAALLLVLGWLQARPDLGQAILGPMFWVKAIYTGLLGLAGYLAVERLSRPGGSGRRGWIIGAVVFGACAVAGIYQAITSPDVQAALKLLHGYSWRSCSPRILVLGLPMLALGLWALRGMAPTRPGLAGFAMGLFSGGVVATLYGLHCPEHTFTFLALWYSLGVLALGLIGGWAGRWLLRW |
| 2233 | sp|F4JN35|NTL9\_ARATH | MGAVSMESLPLGFRFRPTDEELVNHYLRLKINGRHSDVRVIPDIDVCKWEPWDLPALSVIKTDDPEWFFFCPRDRKYPNGHRSNRATDSGYWKATGKDRSIKSKKTLIGMKKTLVFYRGRAPKGERTNWIMHEYRPTLKDLDGTSPGQSPYVLCRLFHKPDDRVNGVKSDEAAFTASNKYSPDDTSSDLVQETPSSDAAVEKPSDYSGGCGYAHSNSTADGTMIEAPEENLWLSCDLEDQKAPLPCMDSIYAGDFSYDEIGFQFQDGTSEPDVSLTELLEEVFNNPDDFSCEESISRENPAVSPNGIFSSAKMLQSAAPEDAFFNDFMAFTDTDAEMAQLQYGSEGGASGWPSDTNSYYSDLVQQEQMINHNTENNLTEGRGIKIRARQPQNRQSTGLINQGIAPRRIRLQLQSNSEVKEREEVNEGHTVIPEAKEAAAKYSEKSGSLVKPQIKLRARGTIGQVKGERFADDEVQVQSRKRRGGKRWKVVATVMVAVMVGVGMGIWRTLVSS |
| 2234 | sp|Q6C4X9|OCA1\_YARLI | MHRTSIVEELERHQQDQKADQEPGSVSDASNSALQESSDPRLSTTDNTNTPEINVNDQQQEQQVASGEDTDPPSPRMKTIVKPPPIKVVPPLNFGPVERNLYRSGQPEPISFPFLEKLRLRTILWLAVEDPSDNFLAFADDHEIVVHHLGLVTEGTNPWDQLTESSIVAALQIIMDRDSYPLLVCCGMGRHRTGTIVGCLRRLQGWNLASVSEEYRRYAGSRGGRALIELHIEAFDTSRIIVYPESAPEWCSS |
| 2235 | sp|A0A0H3NJI9|OMPC\_SALTS | MKVKVLSLLVPALLVAGAANAAEIYNKDGNKLDLFGKVDGLHYFSDDKGSDGDQTYMRIGFKGETQVNDQLTGYGQWEYQIQGNQTEGSNDSWTRVAFAGLKFADAGSFDYGRNYGVTYDVTSWTDVLPEFGGDTYGADNFMQQRGNGYATYRNTDFFGLVDGLDFALQYQGKNGSVSGENTNGRSLLNQNGDGYGGSLTYAIGEGFSVGGAITTSKRTADQNNTANARLYGNGDRATVYTGGLKYDANNIYLAAQYSQTYNATRFGTSNGSNPSTSYGFANKAQNFEVVAQYQFDFGLRPSVAYLQSKGKDISNGYGASYGDQDIVKYVDVGATYYFNKNMSTYVDYKINLLDKNDFTRDAGINTDDIVALGLVYQF |
| 2236 | sp|Q9M571|PEAMT\_SPIOL | MAASAMGVLQEREVFKKYWIEHSVDLTVEAMMLDSQASDLDKVERPEVLSMLPPYEGKSVLELGAGIGRFTGELAEKASQVIALDFIESVIKKNESINGHYKNVKFMCADVTSPSLNISPNSVDIIFSNWLLMYLSDEEVERLVERMLKWLKPGGYIFFRESCFHQSGDHKRKSNPTHYREPRFYTKIFKECHMQDDSGNSYELSLIGCKCIGAYVKSKKNQNQISWLWQKVDSEDDKGFQRFLDSSQYKFNSILRYERVFGPGYVSTGGLETTKEFVSKLDLKPGQKVLDVGCGIGGGDFYMAENYDVEVVGIDLSINMISFALERSIGLKCAVEFEVADCTKKDYPENSFDVIYSRDTILHIQDKPALFRSFHKWLKPGGKVLISDYCKSAGTPSAEFAAYIRQRGYDLHDVKAYGKMLKDAGFVEVIAENRTDQFIQVLQKELDALEQEKDDFIDDFSEEDYNDIVDGWKAKLVRTTEGEQQWGLFIAKKM |
| 2237 | sp|P0A0P5|PRMA\_STAAU | MNWTELSIIINHEAVELATNILENHGSNGVVIEDSDDLINQPEDKYGEIYALKKEDYPDKGVRLKAYFNEMTYDDKLRQQIKDELLNLDELDQHNIQFSEQIIAETDWENEWKNYFHPFRASKKFTIVPSWETYAKEADEELCIELDPGMAFGTGDHPTTSMCLKAIETYVLPQHSVIDVGTGSGILSIASHLIGVKRIKALDIDEMAVSVAKENFRRNHCETLIEAVPGNLLKDETEKFDIVIANILAHIIDEMIEDAYNTLNEGGYFITSGIIKEKYEGIQSHMERVGFKIISEQHDNGWVCLVGQKVSE |
| 2238 | sp|P0AG82|PSTS\_ECOLI | MKVMRTTVATVVAATLSMSAFSVFAEASLTGAGATFPAPVYAKWADTYQKETGNKVNYQGIGSSGGVKQIIANTVDFGASDAPLSDEKLAQEGLFQFPTVIGGVVLAVNIPGLKSGELVLDGKTLGDIYLGKIKKWDDEAIAKLNPGLKLPSQNIAVVRRADGSGTSFVFTSYLAKVNEEWKNNVGTGSTVKWPIGLGGKGNDGIAAFVQRLPGAIGYVEYAYAKQNNLAYTKLISADGKPVSPTEENFANAAKGADWSKTFAQDLTNQKGEDAWPITSTTFILIHKDQKKPEQGTEVLKFFDWAYKTGAKQANDLDYASLPDSVVEQVRAAWKTNIKDSSGKPLY |
| 2239 | sp|A1A6M1|PTAC5\_ARATH | MASSSLPLSLPFPLRSLTSTTRSLPFQCSPLFFSIPSSIVCFSTQNPDREEVRWLREEQRWIREEQRWIREEQRWIRERESLLQEISDLQLRIQSLESRNSQLGNSIPDTISNIAALLQVLKEKNRISESGLSATPMVLESTREQIVEEVEEEEKRVIIAEEKVRVSEPVKKIKRRILKVGSEGDDVQALQEALLKLGFYSGEEDMEFSSFSSGTASAVKTWQASLGVREDGVMTAELLQRLFMDEDVETDKDEASTMKKEEAGNGAVFTSVTQVPEKKQSIVKDQSDREVDVTQNRVFLLGENRWEDPSRLIGRNKPVDRSESTNTKTRCITCRGEGRLMCLECDGTGEPNIEPQFMEWVGEDTKCPYCEGLGYTVCDVCDGKKNL |
| 2240 | sp|A0R563|RADA\_MYCS2 | MAGSKIRSQYRCSECQHVAPKWVGRCANCGTWGTVDEVAVLAGNNKLNGAARRSVAPTSPAVPITSIDPGVTRHYPTGVSELDRVLGGGLVAGSVTLLAGDPGVGKSTLLLEVANRWAHSGKRALYLSGEESAGQIRLRAERTGCTHDQVYLAAESDLQIALGHIDEVKPSLVVVDSVQTMSTTEADGVTGGVTQVRAVTTSLTAYAKAAVGDPAVAMILVGHVTKDGAIAGPRSLEHLVDVVLHFEGDRASSLRMVRGVKNRFGAADEVGCFQLHDNGIECVSDPSGLFLDQRPLAVPGTAVTVTLDGKRPMIGEVQALVSPPAGPPRRAVSGIDSARAAMIGAVLQTRCRMPINSNDLYLSTVGGMRLTDPSADLAVALAIASAYFDIAMPMKAIAIGEVGLAGDLRRVTGMDRRLSEAARLGFTTAVVPPGVTSAPAGLKVVAADNIRAAVQTMREIAIAGAQ |
| 2241 | sp|Q0WL81|RNL\_ARATH | MDAPFESGDSSATVVAEAVNNQFGGLSLKESNTNAPVLPSQTTSNHRVQNLVWKPKSYGTVSGSSSATEVGKTSAVSQIGSSGDTKVGLNLSKIFGGNLLEKFSVDKSTYCHAQIRATFYPKFENEKTDQEIRTRMIEMVSKGLATLEVSLKHSGSLFMYAGHKGGAYAKNSFGNIYTAVGVFVLSRMFREAWGTKAPKKEAEFNDFLEKNRMCISMELVTAVLGDHGQRPLDDYVVVTAVTELGNGKPQFYSTSEIISFCRKWRLPTNHVWLFSTRKSVTSFFAAFDALCEEGIATSVCRALDEVADISVPASKDHVKVQGEILEGLVARIVSSQSSRDMENVLRDHPPPPCDGANLDLGLSLREICAAHRSNEKQQMRALLRSVGPSFCPSDVEWFGDESHPKSADKSVITKFLQSQPADYSTSKLQEMVRLMKEKRLPAAFKCYHNFHRAEDISPDNLFYKLVVHVHSDSGFRRYHKEMRHMPSLWPLYRGFFVDINLFKSNKGRDLMALKSIDNASENDGRGEKDGLADDDANLMIKMKFLTYKLRTFLIRNGLSILFKDGAAAYKTYYLRQMKIWGTSDGKQKELCKMLDEWAAYIRRKCGNDQLSSSTYLSEAEPFLEQYAKRSPKNHILIGSAGNLVRTEDFLAIVDGDLDEEGDLVKKQGVTPATPEPAVKEAVQKDEGLIVFFPGIPGSAKSALCKELLNAPGGFGDDRPVHTLMGDLVKGKYWPKVADERRKKPQSIMLADKNAPNEDVWRQIEDMCRRTRASAVPIVADSEGTDTNPYSLDALAVFMFRVLQRVNHPGKLDKESSNAGYVLLMFYHLYEGKNRNEFESELIERFGSLIKMPLLKSDRTPLPDPVKSVLEEGIDLFNLHSRRHGRLESTKGTYAAEWTKWEKQLRDTLVANSEYLSSIQVPFESMVHQVREELKTIAKGDYKPPSSEKRKHGSIVFAAINLPATQVHSLLEKLAAANPTMRSFLEGKKKSIQEKLERSHVTLAHKRSHGVATVASYSQHLNREVPVELTELIYNDKMAALTAHVGSVDGETVVSKNEWPHVTLWTAEGVTAKEANTLPQLYLEGKASRLVIDPPVSISGPLEFF |
| 2242 | sp|B5XPH8|SBMC\_KLEP3 | MNYSITTLGKKTIAGFHLVGPWDQTVKQGVEQLMMWVENHQVPAREWLAVYYDNPEEVPAEKLRCATVVAVDEDYVIPANSEGVILAAVAGGDYACARARVVDYDFATPWMQFFDSLLQSTTYRVAPRPCFEIYLNDGNHDGYWDIDMYVPVERVAS |
| 2243 | sp|A7WXS1|SCDA\_STAA1 | MINKNDIVADIVIDYPKAADIFRSVGIDFCCGGQVSIEAASLEKKNVDLNELLQRLNDVEQTNTPGSLNPKFLNVSSLIQYIQAAYHEPLREEFKNLTPYVTKLSKVHGPNHPYLVELKETYDTFKSGMLEHMQKEDDVDFPKLIKYEQGEVVNDINTVIDDLVSDHIATGQLLVKMSDLTSSYEPPIEACGTWRLVYQRLKALEVLTHEHVHLENHVLFKKVS |
| 2244 | sp|A6TY44|SCDA\_STAA2 | MINKNDIVADIVIDYPKAADIFRSVGIDFCCGGQVSIEAASLEKKNVDLNELLQRLNDVEQTNTPGSLNPKFLNVSSLIQYIQAAYHEPLREEFKNLTPYVTKLSKVHGPNHPYLVELKETYDTFKSGMLEHMQKEDDVDFPKLIKYEQGEVVNDINTVIDDLVSDHIATGQLLVKMSDLTSSYEPPIEACGTWRLVYQRLKALEVLTHEHVHLENHVLFKKVS |
| 2245 | sp|Q9NA80|SIN1\_CAEEL | MGHVDREDLLNVIRHELRLEDDDGPGLCSRLLLNPDRKCRAGGLPLDFRLKNGDLMDDGDAGFDDIYEIPLYEEPIHTRTLINDSLALRTAEKIKEEGRRDNFYTGPLDELFVKQEVNWPPKTPISTEKSAIERYLEENSANLNNPLGEYSKFAATTTDPSRQIEIIIPMSCDEEIGFKTLKIEVLTTARIREVIGYCLLQYYLTFDSYLPGEVDDYQFYLAEEDGEIEHELPPLDSSKLVGQVGFTCLGLVSRIKKNGNSRQKRAVAVWFVDKDQYVIEVDNMEKPLRWLRDEAFRLREETVKEREPLFQGLLDIKEYYMEAVDNFDVKLDLEASISSARSLEFVMIRKNSSRAGFHPRGGRYGRQMSAMLTLKMPNSPIAAGPMTPLPTVMEESPAVAGTSNGFGFPKAESCGAIASTPGVTWNDDGGQLSSFIVQRIHKFKPKWKANLIFRWTCFEIEKYREDRSAFLPQGYQKHTKVPWEYVGGVRTQLKDAKAGRVDMWQITFFWLPVLSDETVKDVIGDAEWNLNLVAKIYANEEKWRSVTLETFFKQDVDEIFSQTNSILQARDASIYKAFSHSSFGTLSPAASADLALMESAEAIVSPSSDAPSRSSNGKNGGKFRKMSSLMASVMGRRKSDSK |
| 2246 | sp|B2ANF9|SHO1\_PODAN | MPNYGSLHSPSLRKMEQSRIQYGRKRLSLGNIIGDPFALATISIAFLAWIISFFGSLFAHINQPPNTPGVNNSFPLYTWWAVVFYFFLVVGVFIVVASDSVQTYHVAIVGYLGCGLVLSTSAVHGLIYSNIGSREAAAAGMILLAMVTIVWIFYFGSAPSAVPRAYIDSFALAKESSTNRQTMNTGYGIGRPETSTSVQPPQMYTAQLNGLENPSPVGGMQSSGMRNSAVPPPFQSTLGQKSNGLPGSSDGDIAPPTEYPYRAKAIYSYEANPEDANEISFQKHEILEVSDVSGRWWQARKENGDTGIAPSNYLILL |
| 2247 | sp|P66831|SODM2\_STAAN | MAFKLPNLPYAYDALEPYIDQRTMEFHHDKHHNTYVTKLNATVEGTELEHQSLADMIANLDKVPEAMRMSVRNNGGGHFNHSLFWEILSPNSEEKGGVIDDIKAQWGTLDEFKNEFANKATTLFGSGWTWLVVNDGKLEIVTTPNQDNPLTEGKTPILLFDVWEHAYYLKYQNKRPDYMTAFWNIVNWKKVDELYQAAK |
| 2248 | sp|O64592|SRO3\_ARATH | MAAQVEIEDQESVTNLDNGEIINPISDNAPNFSGDATILLREATFEHNLIKNCFLSGMGSFATETTIVTVRKILTQRLITTKAKFAVFKLFTEAMKRKNNGYANIRYGWYSGSKEEIDRVITYGFSNREIKKVENDVGSHGVGIHLVHHRYSLAAALVGEGDEEGIKNILLCRVILGKPEQIVTGSKQSYPSSNQFDSGVDNLENPRKYVIWSCNMNSYILPTYIVSFKSHLLRGLIGRARSPCVSFSVLMSILSKSLDAARMNLILTSYDDFRKRKLRREQLVRKIREVVGDNLLFKILKNQRR |
| 2249 | sp|A3LW52|OCA1\_PICST | MSNKDTSILKGNVDHEEADSNPKLRKIGRPPALRIIPPLNFCPVERQLYRSGQPSAINQSFLEQLNLKTILWLASEEPQDDFLEFSNDHNINIEFVGIINEFSNYQNYNTNQTLTVNPWDALNEQTIKRALELIVNRENYPLLVCCGMGRHRTGTVIGCLRRLQGWNLASVSEEYRRFTGARGGRILVELLIESFDIGSVEIDPSKVPDWLT |
| 2250 | sp|P0AA18|OMPR\_ECO57 | MQENYKILVVDDDMRLRALLERYLTEQGFQVRSVANAEQMDRLLTRESFHLMVLDLMLPGEDGLSICRRLRSQSNPMPIIMVTAKGEEVDRIVGLEIGADDYIPKPFNPRELLARIRAVLRRQANELPGAPSQEEAVIAFGKFKLNLGTREMFREDEPMPLTSGEFAVLKALVSHPREPLSRDKLMNLARGREYSAMERSIDVQISRLRRMVEEDPAHPRYIQTVWGLGYVFVPDGSKA |
| 2251 | sp|Q79FW5|PG11\_MYCTU | MSFVIVARDALAAAAADLAQIGSAVNAGNLAAANPTTAVAAAAADEVSAALAALFGAHAREYQAAAAQAAAYHEQFVHRLSAAATSYAVTEVTIATSLRGALGSAPASVSDGFQAFVYGPIHATGQQWINSPVGEALAPIVNAPTNVLLGRDLIGNGVTGTAAAPNGGPGGLLFGDGGAGYTGGNGGSAGLIGNGGTGGAGFAGGVGGMGGTGGWLMGNGGMGGAGGVGGNGGAGGQALLFGNGGLGGAGGAGGVDGAIGRGGWFIGTGGMATIGGGGNGQSIVIDFVRHGQTPGNAAMLIDTAVPGPGLTALGQQQAQAIANALAAKGPYAGIFDSQLIRTQQTAAPLANLLGMAPQVLPGLNEIHAGIFEDLPQISPAGLLYLVGPIAWTLGFPIVPMLAPGSTDVNGIVFNRAFTGAVQTIYDASLANPVVAADGNITSVAYSSAFTIGVGTMMNVDNPHPLLLLTHPVPNTGAVVVQGNPEGGWTLVSWDGIPVGPASLPTALFVDVRELITAPQYAAYDIWESLFTGDPAAVINAVRDGADEVGAAVVQFPHAVADDVIDATGHPYLSGLPIGLPSLIP |
| 2252 | sp|Q2KI51|PR15A\_BOVIN | MAPGQMPHQPAPWRGTHPLFLLSPLMGLLSRAWSLLRAPGPPEPWLVEAVTEADQGGAGLEDEAKASLATYHALWGRHPQEETKDSGAAEEDREASPGACPNLEAKHSLPEAWGLSDDDDEKYGGEEATGVPREQKEFMDGQPAPLPLSLLIRSLPDLPGEEESKEEAVTGGGGNEVTAFSFPLSHWECCPGEEEEEEEENGEAVRVCRPVNGATEERTQTEAATKTSMSPSSVGSHLRAWECCSGKESEEEEKDKQAEKGDADPGPHFTSLAQRPSLRTWQHPSSAITEEEEDRDSEEMGASSSVPLTSAFLSDWVYQPEDTEEEDEEEEDCDSEATEDEGEAEVSSATPPPSAFLSAWVYRPGEDTEEEEDCDSEATEDEGEAEVSSATPPTSAFLSAWVYQPGDTEEEEDCDSEATEDEGEAEVSSATPPPSAFLSAWVYRPGEDTEEEDEYEDEDNESGAADLGPSPSLQTQSALLRDQIYQPGEKTDGGEAAEKWGEAESCPFRVAIYLPGEKPPPPWDPPRLPLRLQRRLKSAQTPTRHQDLERLLKTRKVRFSEKVSIHPLVVWAGPAQAARRGPWEQFARDRSRFARRIAQVQEELGPYLTPAARARAWARLGNPPTSLATVPAPTQTSPMTPIQATPLSHALASPSPPCVSPSLDLSGRRG |
| 2253 | sp|Q60465|PR15A\_CRILO | MAPSPRPQHILLWRDAHSFHLLSPLMGFLSRAWSRLRVPEAPEPWPAETVTGADQIEADAHPAPPLVPENHPPQGEAEESGTPEEGKAAQGPCLDVQANSSPPETLGLSDDDKQGQDGPREQGRAHTAGLPILLSPGLQSADKSLGEVVAGEEGVTELAYPTSHWEGCPSEEEEDGETVKKAFRASADSPGHKSSTSVYCPGEAEHQATEEKQTENKADPPSSPSGSHSRAWEYCSKQEGEADPEPHRAGKYQLCQNAEAEEEEEAKVSSLSVSSGNAFLKAWVYRPGEDTEDDDDSDWGSAEEEGKALSSPTSPEHDFLKAWVYRPGEDTEDDDDSDWGSAEEEGKALSSPTSPEHDFLKAWVYRPGEDTEDDQDSDWGSAEKDGLAQTFATPHTSAFLKTWVCCPGEDTEDDDCEVVVPEDSEAADPDKSPSHEAQGCLPGEQTEGLVEAEHSLFQVAFYLPGEKPAPPWTAPKLPLRLQRRLTLLRTPTQDQDPETPLRARKVHFSENVTVHFLAVWAGPAQAARRGPWEQLARDRSRFARRIAQAEEKLGPYLTPAFRARAWARLGNPSLPLALEPICDHTFFPSQ |
| 2254 | sp|Q4UL56|RADA\_RICFE | MTKDKKHYICSNCGNTSPKWSGQCFDCGVWGSIVEEIVSTNKAIVKTGSKQDFDKLSGHVAEQLRIPTPIGELNRVLGGGLVLGSAILIGGDPGIGKSTLLLQLAASNFASKMNCLYITGEESLDQIKLRAIRLNLTNYNTDILAATNLEDIIASIEANKNNIDLVVIDSIQTITTKELSSPPGTVSQIRICANELVNYAKQNNIIILLSCHVTKDGQLAGPKILEHLVDTVLYFEGDHNNHFRILRSYKNRFGGVGEIGVFEMCGSGLIEVTNPSELFLMKREQNVIGTSIFAGIEGSRPLLMEVQALIVPSNMVTPRRSAVGWDANRLSMILAVLSSRIGLNLANYEVYLSIAGGLKIADPASDLAVAASLISAATGKPVPEHSVFFGEISLSGEIRKTAKAETRIKEAVKLGFNKIICSKLENLTYDFISSVSHLKDLKEIIR |
| 2255 | sp|P0C078|RELE\_SHIFL | MAYFLDFDERALKEWRKLGSTVREQLKKKLVEVLESPRIEANKLRGMPDCYKIKLRSSGYRLVYQVIDEKVVVFVISVGKRERSEVYSEAVKRIL |
| 2256 | sp|Q88Z52|RL31B\_LACPL | MQKGIHPDYHLVVFQDSTTGFKFISGSTATSAETVEWEDGNTYPLIRVEITSDSHPFYTGKQKFTKADGAVDRFNKKYGLK |
| 2257 | sp|P80196|RNLX\_SOLLC | MMKSQKKLLIKIIVVQCLLVLCVTSQDFDFFYFVQQWPASYCDTRRSCCYPTTGKPDEDFSIHGLWPNYKDGKWPQNCDRESSLDESEFSDLISTMEKNWPSLACPSSDGLKFWSHEWLKHGTCSALNQHAYFQTALDFKTKSNLLQNLNNAGIKPRNGDYYGVESIKKAIEKGVGHTPFIECNVDSQGNHQLYQVYLCVDSSASKFIDCPIFPHGGKCGSKIEFPSFSTNDDHDEF |
| 2258 | sp|Q89B27|RPOH\_BUCBP | MIKVETKTLPAISLGNLDSYIREANSWPMLSSQEEKYLSEKLFYHGDLNAAKTLILSHLRFVIHVSRNYSGYGLLQADLIQEGNIGLMKAVRRFNPKIGVRLVSFAVHWIKSEIHEYVLRNWRIVKVATTKSQRKLFFNLRKTKQRLGWFNDHELELVAQELGVKREDVREMESRMSAQDIALHHVPDNFREEQNFSYTIPYLKDSLSDFANHVEEDNWEAHKTNKLSNALSSLDERSRNIIHARWLDDSDHKMTLREIAHNYGISAERVRQLEKNAMKKLKVAIET |
| 2259 | sp|P50509|RPOH\_PROMI | MTQEMQSLALVPQGSIEAYIRAANSYPMLTAEEEKELAERLHYEGDLEAAKTLILSHLRFVIHVARSYSGYGLPQADLIQEGNIGLMKAVRHFNPEVGVRLVSFAVHWIKAEIHEYVLRNWRIVKVATTKSQRKLFFNLRKNKKRLGWFNQDEVELVAKELGVSESDVREMESRMSAQDMAFDMSADDSDDPHPVAPVLFLEDKSSDFADGIEEDNWDNHAADRLTLAIKTLDERSQDIIRARWLEDDNKSTLQELADKYGVSAERVRQLEKNAMKKLRLAIED |
| 2260 | sp|O31655|RSGI\_BACSU | MRRGIIVEKNKKFVTLLTPDGQFLKAKNDRHSYEIGEEIMLPSETRMGRRASFFDFFKLRPFKMGIFTMTAIMLFIFIVLPVFSNNKAYAYMTIDINPSVEMALNSDYEVIELTPLNDEGQKVVNDIDDWEKTDFKKVIDDIITDCSEHGYVKKSKEILISTVYENTEDNTYKKAVKKQLNDVTEKYKTTYRMESLESDMQTREKAKKEGVSTGSYIKSNEKNDNKDIKDDSSKPSGEEDQKSDENEDENTDQTDTQDSKQGDNEQLNDADSGDQKEEKADDQIDDSDKDKKIKESDENTNTEKDGDHEQTPIQDPQDKGNENNGADKGQSQYHRDWNNGEQGKNRSSSRRDNASDRRNPNGYSSDNHSAKNEDSPSAPGE |
| 2261 | sp|P9WJ69|RSHA\_MYCTU | MSENCGPTDAHADHDDSHGGMGCAEVIAEVWTLLDGECTPETRERLRRHLEACPGCLRHYGLEERIKALIGTKCRGDRAPEGLRERLRLEIRRTTIIRGGP |
| 2262 | sp|Q0D4J7|SAPK2\_ORYSJ | MERYEVIKDIGSGNFGVAKLVRDVRTKELFAVKFIERGQKIDENVQREIMNHRSLRHPNIVRFKEVVLTPTHLAIVMEYAAGGELFERICSAGRFSEDEARFFFQQLISGVSYCHSMQICHRDLKLENTLLDGSIAPRLKICDFGYSKSSLLHSQPKSTVGTPAYIAPEVLARKEYDGKVADVWSCGVTLYVMLVGAYPFEDPDEPRNFRKTITRILSVQYMVPDYVRVSMECRHLLSRIFVANPEQRITIPEIKNHPWFLKNLPIEMTDEYQMSVQMNDINTPSQGLEEIMAIIQEARKPGDGSKFSGQIPGLGSMELDDVDTDDIDVEDSGDFVCAL |
| 2263 | sp|A3BDI8|SAP8\_ORYSJ | MEHKETGCQQPEGPILCINNCGFFGSAATMNMCSKCHKEMIMKQEQAKLAASSIDSIVNGGDSGKEPIIAGHAEVAVAQVEVKTLVAQPAEIAGPSEGVTVNPKGREGPNRCSTCRKRVGLTGFNCRCGNLYCAMHRYSDKHDCQFDYRTAARDAIAKANPVVKAEKLDKI |
| 2264 | sp|P0A212|SBMC\_SALTY | MDYEIRQEQKRKIAGFHMVGPWEHTVKQGFEQLMTWVDRQRIVPVEWIAVYYDNPDVVPAEKLRCDTVVSVAENFILPDNSEGVIVTAIEGGEYATAVARVEDRDFAKPWERFFDVLEQDSAYQIASAPCFETYLNNGMEDGYWDIEMYIPVQRK |
| 2265 | sp|B2TYH1|SBMC\_SHIB3 | MNYEIKQEEKRTVAGFHLVGPWEQTVKKGFEQLMMWVDSKNIVPKEWVAVYYDNPDETPAEKLRCDTVVTVPGYFTLPENSEGVILTEITGGQYAVAVARVVGDDFAKPWYQFFNSLLQDSAYEMLPKPCFEVYLNNGAEDGYWDIEMYVAVQPKHH |
| 2266 | sp|Q4L8T8|SCDA\_STAHJ | MITNESIVAEIVTDIPLSADIFRKYGIDFCCGGNISINEAVKNKKVDAETLIDEINELPNHDQGNINVKYLDAPSLIQYIQSRYHETMREEFKNLSPYVTKVAKVHGPNHPFLIQLQDLYRQYRDGMLEHMAQEDEHDFPALIKLSRGEQVDHSSDIIQSLVDDHTQTGQLLEDMRELTSQYQPPSEACQTWRLVYHRLMNLERETHEHVHLENHVLFNKFS |
| 2267 | sp|Q42693|RUBB\_CHLRE | KSGMEKTVQELVKELRKMSSVVQTDKDLANVACVSAGGNTDIGSLISDAMAKVGRTGVVTMEEGKTAEDQLVFVEGMQFERGYTSPYFVTDPERMICEYENCKILLVDKKISTARDIITILESAIRGNYPLLIMAEEVEQEALATLVVNKLRGTLKVVAIKAPGFGERRSSYLEDIAILTGGTVVGDEMGVSLEQATDAVLGTAAKITITKERTTVVGDGSTAADVAARVKQIRNLQMQTDQDYEREKLQERIARLSGGVAIIQVGAQTETELKEKKLRVEDALNATRAAVEEGVVPGGGCTLLRLSEKVDVIKRRMTDPEQQMGADIIKRALCYPIKLIAQNAGVNGSVVMNEVMKNLDRPHYGYNAATDSFENLMETGIIDPSKVVRCSMENAVSVAKTFLLADVVVTELKEIEAGAKPNPVAPGAAGFGGGL |
| 2268 | sp|P68575|SCP1\_BACSU | MEFKVGQDVSEIWNIHGSILPEVLMYMFPRSDESYDWEFVNDNGRHIFTAWRKSEPIPTLEEIEKAAIELEEKKNAPKPKTLEERVADLEKQVAYLTSKVEGTN |
| 2269 | sp|O81417|SRPP\_ARATH | MAFSRLSFAASLIVFSSLIISSVAYYGNEADPETGKLIPIAVEGIIKCKSGGKTYPIQGATARIACVKVDAYGNELVPISILSSKTDAKGYFIATIFPSQLRAGRTVTKCKTYLYKSPLADCDFPTDVNKGVRGQPLSTYRILQDKSFKLYWAGPFFYTSEPTYY |
| 2270 | sp|P32292|ARG2\_VIGRR | MARSFTNVKVLSALVADGFSNTTTRHGFAAAAAATQSATRGGASIGGNMVPKSGEEKVRGGEKVSWVPDPVTGYYRPENTNEIDVADMRATVLGKKFNQ |
| 2271 | sp|Q8WN64|ANGI\_PAPHA | MVMGLGLFLLVFMLGLGLTLPTLAQDNFRYRDFLAKHYDGTPEGRNDRYCESTMRRRHLTSPCKDTNTFIHGNRHHINAICGDENGNPYGGNLRISKSPFQVTTCKLHGGSPRPPCRYRATRGSRNIVVGCENGLPVHLDESIFRP |
| 2272 | sp|P22010|BIP\_KLULA | MFSARKSSVGWLVSSLAVFYVLLAVIMPIALTGSQSSRVVARAAEDHEDYGTVIGIDLGTTYSCVAVMKNGKTEILANEQGNRITPSYVSFTDDERLIGDAAKNQAASNPKNTIFDIKRLIGLQYNDPTVQRDIKHLPYTVVNKGNKPYVEVTVKGEKKEFTPEEVSGMILGKMKQIAEDYLGKKVTHAVVTVPAYFNDAQRQATKDAGAIAGLNILRIVNEPTAAAIAYGLDKTEDEHQIIVYDLGGGTFDVSLLSIENGVFEVQATAGDTHLGGEDFDYKLVRHFAQLFQKKHDLDVTKNDKAMAKLKREAEKAKRSLSSQTSTRIEIDSFFNGIDFSETLTRAKFEELNLALFKKTLKPVEKVLKDSGLQKEDIDDIVLVGGSTRIPKVQQLLEKFFNGKKASKGINPDEAVAYGAAVQAGVLSGEEGVEDIVLLDVNALTLGIETTGGVMTPLIKRNTAIPTKKSQIFSTAVDNQKAVRIQVYEGERAMVKDNNLLGNFELSDIRAAPRGVPQIEVTFALDANGILTVSATDKDTGKSESITIANDKGRLSQDDIDRMVEEAEKYAAEDAKFKAKSEARNTFENFVHYVKNSVNGELAEIMDEDDKETVLDNVNESLEWLEDNSDVAEAEDFEEKMASFKESVEPILAKASASQGSTSGEGFEDEDDDDYFDDEL |
| 2273 | sp|Q3SFW2|HSLV\_THIDA | MEQYRGTTILSVRRGAEVALGGDGQVTLGNIVIKSTARKIRRLYQEKVLAGFAGGTADAFTLFERFEAKLDKHSGHLLRSAVELAKDWRTDRMLRRLEAMLAVADREHSLIITGNGDVLEPELGIAAIGSGGAFAQSAARALLENTDLAPLEIVKKSLTIAGDICIYSNQNHVIEVLGDRGQDSGVRE |
| 2274 | sp|Q5VRY1|HSP18\_ORYSJ | MESAMFGLETPLMTALQHLLDIPDGEGGAAGKQGATGGPTRAYVRDARAMAATPADVKDLPGAYAFVVDMPGLKSSDIKVQVEEERLLVISGERRRGGGEEEKEESCKYLRMERRMGKFMRKFVLPDNADVDKISAVCQDGVLTVTVEKLPPPEPKKPKTIEVKVA |
| 2275 | sp|Q2KYY2|HTPG\_BORA1 | MTQNATSETLGFQAEVKQLLHLMIHSLYSNKEIFLRELVSNASDACDKLRFEAIDQPELLAGDSELAIRVSYDKAARTITIADNGIGLSREEAIANLGTIARSGTREFFSQLTGDKQKDAQLIGQFGVGFYSSFIVADRVSVLSRRAGSDEAIRWESDGQGEFSIASAEKATRGTDVVLHLRADEDEFLNGWKLREVLRRYSDHISLPILMRKEEWDADKDEQVTRDEWETVNQANALWTRSKSEISDEQYREFYKTVSHGFDEPLAWTHNRVEGRSEYTQLLYVPRQAPFDLWDRDARRGVKLYVKRVFIMDDAEQLLPAYLRFVRGVIDSADLPLNVSREILQESRDVRAIREGSAKRILSLLEDLAENRKDDYAVFWGEFGQVLKEGVGEDPSNQERIAKLLRFASTHAGDASQTTSLQDYLGRLKEGQDKIYYVTADSYSAASNSPHLEIFRKKGIEVLLLWDRVDEWMLSHLREFEGKSLVSVAKGGLDLADLADEEEKKKQTEVAESFKPLIERLQTALGEQVKEVRVTLRLVDSPACVVVGQNDLSPHLLRMLKAAGQEVPEVKPVLEINPEHALIARIRDVSDADFGAWAQLLLDQALLAEGAQIADPAAFVKRLNALLLKV |
| 2276 | sp|Q0DBL6|HFC2B\_ORYSJ | MAAAAGGGAAPFVWKTYRMVEDPGTDGVIGWGKGNNSFVVADPFVFSQTLLPAHFKHNNFSSFVRQLNTYGFRKVDPDRWEFAHASFLRGQTHLLRNIVRRGSAAAGGGGGGGGGKRRDASADGGGGGGDEDMTMVATEVVRLKQEQRTIDDRVAAMWRRVQETERRPKQMLAFLLKVVGDRDKLHRLVGGGGNGNGAATAAAADNGFADAARAGCGEKRARLLLDGDNTGAFGPDAVDFAGFYTGADMFPDVAVDAAAAAAGGSAGCSFAFGVDSGY |
| 2277 | sp|Q660W4|HTPG\_BORBP | MKKQFDTEVNDLLYLIIHSLYSHKEIFLRELISNASDAIDKLKFLSLTNEKFKNIALEPKIEITFDDKSILIKDNGIGMNEQDLTNHLGVIAKSGTKEFINNLKQDEKKSASLIGQFGVGFYSAFIVSEKVEVTSKKALESDAYIWFSDGKTGYEIEKAKKEESGTEIKLYLNKEGLEYANKWKIQEIIKKYSNHINYPIYIKYSEPIMKDGKQEGIEEKEEKLNETTALWTKNKSEIKAEEYNEFYKNTTFDYENPLMHVHTKAEGNLEYTNLFYIPSKAPYDLYYPNTKPGVKLFINRIFITDSEGSLLPNYLRFIKGIIDCQDLPLNVSREILQQNKILSKIKSSSVKKILSELEKLSKKNPEKFSKFSKEFGRCIKEGVYSDFENREKLISLIRFKSSSVDGFVSFKEYKERMKESQKSIYYITGGKENILKENPIVSAYKEKGFEILIMDDELDEAILNLIPEYEGLKLKAINKNETSNELKDENFKKIEEEFKDILTKVKEILKDHIKEVNLSATLIKEPSAIIVDSNDPTYQMQKIMLSMGQEVKEIKPILELNPNNKIVQNLKNLESEKLEKISILLFEEALLTSGMPSKNPGKFINIINEFLEKELL |
| 2278 | sp|P25619|HSP30\_YEAST | MNDTLSSFLNRNEALGLNPPHGLDMHITKRGSDWLWAVFAVFGFILLCYVVMFFIAENKGSRLTRYALAPAFLITFFEFFAFFTYASDLGWTGVQAEFNHVKVSKSITGEVPGIRQIFYSKYIAWFLSWPCLLFLIELAASTTGENDDISALDMVHSLLIQIVGTLFWVVSLLVGSLIKSTYKWGYYTIGAVAMLVTQGVICQRQFFNLKTRGFNALMLCTCMVIVWLYFICWGLSDGGNRIQPDGEAIFYGVLDLCVFAIYPCYLLIAVSRDGKLPRLSLTGGFSHHHATDDVEDAAPETKEAVPESPRASGETAIHEPEPEAEQAVEDTA |
| 2279 | sp|P54650|HTPG\_ALIFS | MSEQTANKETRGFQSEVKQLLHLMIHSLYSNKEIFLRELISNASDASDKLRFKALSNGDLYEGNADLGVKLSFNEAANTLTISDNGIGMSREDVIEHLGTIAKSGTADFFSKLSEDQSKDSQLIGQFGVGFYSAFIVADAVTVRTRAAGSEKDQGVQWHSEGEGDYTIEDITKESRGTDIILHMREEGKEFLNEWRLKEVIGKYSDHIGIPVSIWAVEKDEEGKDKEGKWEQVNKAQALWTRSKSDIEDAEYQEFYKHVSHDFADPLTWSHNKVEGKNDYTSLLYIPAKAPFDMMNRDHKSGLKLYVQRVFIMDDAEQFMPTYLRFVKGLIDSNDLPLNVSREILQDNKVTQSLRSACTKRVLGMLEKMAKKDDEKYLTFWKQFGQVLKEG |
| 2280 | sp|P11500|HSP90\_RABIT | MPEEVQTQDQPMETFAVQTFAFQAEIAQLMSLIYESLTDPSKLDSGK |
| 2281 | sp|Q894P6|HTPG\_CLOTE | MAVKQFKAESKRLLDLMINSIYTNKEIFLRELISNASDAIDKRYYRSLTDENISFNKKDFYIRIIPNKEERTLTIIDTGIGMSVEELENNLGTIAKSGSLAFKNKMESKEGIDIIGQFGVGFYSAFMIADKIVVKSHSIDSDEAYKWESKGVEGYEIEKCEKDELGTEIILKIKENTDDENYDEFLEEYNIKNLIKKYSNFIKYPIKMNMKKTKLKEGTKDEYEDYFEDETLNSMVPIWKKNKNEVKTEDYERFYIDKHFGYDKPLKSIRSKVEGVVSYTALLFIPSTTPYDFYTRNFEKGLELYSNGVLIMEKCADLLPDYFSFVQGLVDSEDLSLNISRELLQHDRQLKLIAKNIKEKIKSELLSILKNKREDYIKFYNNFGRQLKYGVYSDFGANKEVLQDLIMFYSSTEKKLVTLDEYVSRMKDDQKYIYYAPGENIDKIEKLPQTEIVRDKGYEILYFADEVDEFAIKMLMNYKEKEFKSVYSKDLGFEAEEKEEQKENDENKEVFEFMKDVLNGKVKEVRASKRLKSHPVCLANASDISIEMEKVLSMMPNNENIKADKILEINTNHNMFNTIKSAFKDDKDKLKMLSSLLYNQALLIEGLPIEDPVQFANDVCKLIK |
| 2282 | sp|A8FKU4|HTPG\_CAMJ8 | MQFQTEVNQLLQLMIHSLYSNKEIFLRELISNASDALDKLNFLSVSDDKYKSLKFEPKIEIKIDKDKKTLSISDNGIGMDKDDLINNLGTIAKSGTKSFLENLSGDAKKDSQLIGQFGVGFYSAFMVASKIEVLSKKALDDKAYLWSSDANGYEINDANKEEQGTSITLYLKDDEFANTYKIESIIEKYSNHIQFPIFMEKEEFTPAKEGEEEGKTELKISQINKANALWRMQKSSLKVEDYERFYEQNFHDSNKPLLYLHTKSEGKLEYNSLFFIPQNAPFDLFRVDYQSGLKLYVKRVFISDDDKELLPTYLRFVRGIIDVEDLPLNVSREILQENQILKGVKEASVKKILGELEKLKNNDKEKYLSFFKTFGKVLKEGLYGFGGEKDSLLKLMLYKSTKGENLRSLEEYKNDLQGEQKEIFYIAGNNESLLRTSPLLEEYKQKNIEVLLMDDEIDSLVTPMLEFEGLKFVAINQVEDKNELSDEEKNTFAPLVAKFKELLKDQVEDVRLTSRLKDSPSCIVYDKNKPDFAMQQLLKQMGQEQNFKPILEINPKHAIFTGLKNNESFSADIATLVLNMAKLSEGMGVDNPAEFNASLTKIINKAFS |
| 2283 | sp|Q728G0|HTPG\_DESVH | MATAPASHAFRTEVRKMLHIITHSLYTNREIFLRELVSNASDALDKLRFIRSRGDAVVAPDLAPGIDISVDKEARILTIADTGVGMTRQELMDNLGTIARSGSEQFVADLAAAENAKDADAASIIGRFGVGFYAVFMVADRVEVTSRSYIEGEAAHTWTSDGLGEFTVEEATGDIPQRGTVIKAHLREDAAEFLEKYRIEGILRKHSQFISFPIRVDGEQVNTTPALWREPKFSITDEQYADFYKHLTFDTEAPLRTLHVSVDAPVQFTGLVFVPPHGQEVFSMGRDRWGLDLYVRRVLIQRENKDLLPEYLGFLKGIVDTEDLPLNISRETLQENVVVRKIGQTLTKQVLADLARLAADDAEAYATFWRQHGKVFKLGYSDYANREKFAPLLRFNSSHHDDAQGLTSLDDYISRAREGQKEIWYIAAPGREAARLDPRVEVFRRKGLEVLYLLEPIDEFVLETLDSYSDFSFKAVEHADGEKLAQFEDTGPARDVTPLTEDEDAAFARLIERMKALLGDAVEDVRISHRLADSPACLVQPGGASTSSMDRLLRVLHKDESVPRKVFEVNRDHPILRNLLKVFTSDASDPLVEDTTRQLFATSLMLDGYLKDPHELAAMMHRLMEKSGDWYKAVRGL |
| 2284 | sp|Q5LCH4|HTPG\_BACFN | MQKGNIGVTTENIFPIIKKFLYSDHEIFLRELVSNAVDATQKLNTLASISEFKGELGDLTVHVSLGKDTITISDRGIGLTAEEIDKYINQIAFSGANDFLEKYKNDANAIIGHFGLGFYSAFMVSKKVEIITKSYKEGAQAVKWTCDGSPEFTLEEVEKADRGTDIVLYIDDDCKEFLEESRISALLKKYCSFLPVPIAFGKKKEWKDGKQVETAEDNVINDTIPLWTKKPSELSDEDYKKFYRELYPMSDEPLFWIHLNVDYPFHLTGILYFPKVKSNIDLNKNKIQLYCNQVYVTDSVEGIVPDFLTLLHGVLDSPDIPLNVSRSYLQSDSNVKKISTYISKKVSDRLQSIFKNDRAQFEEKWNDLKIFINYGMLTQEDFYDKAQKFALFTDTDGKHYTFEEYQTLIKDNQTDKDKNLIYLYANNKDEQFAYIEAAKNKGYNVLLMDGQLDVAMVSMLEQKLEKSRFTRVDSDVVDNLIVKEDKKSDVLEASKQEALSAAFKSQLPKMEKVEFNVMTQALGENGSPVMITQSEYMRRMKEMANIQAGMSFYGEMPDMFNLVLNSDHKLVKEVLADEEKECSAAIAPIQTELEDVTKRRDALKKKQEGKKDEDIPTAEKDELNDLDKKWDELKQQKDSIFAGYAGKNKVVRQLIDLALLQNNMLKGEALNNFVKRSIELI |
| 2285 | sp|O74402|HSP78\_SCHPO | MNILPKSIPIRIQSLRRYQGSLKTSLRALSTRPIFEKRLLAETPFSIRPSNASVLIAKRSPKFGWKQVRFYAANPNGGNFRMDLGGGRKQGAALEEYGTDLTALAKQGKLDPVIGREEEIQRTIQILSRRTKNNPALVGPAGVGKTAIMEGLASRIIRGEVPESMKDKRVIVLDLGALISGAKFRGDFEERLKSVLSDLEGAEGKVILFVDEMHLLLGFGKAEGSIDASNLLKPALARGKLHCCGATTLEEYRKYIEKDAALARRFQAVMVNEPSVADTISILRGLKERYEVHHGVRITDDALVTAATYSARYITDRFLPDKAIDLVDEACSSLRLQQESKPDELRRLDRQIMTIQIELESLRKETDTTSVERREKLESKLTDLKEEQDKLSAAWEEERKLLDSIKKAKTELEQARIELERTQREGNYARASELQYAIIPELERSVPKEEKTLEEKKPSMVHDSVTSDDIAVVVSRATGIPTTNLMRGERDKLLNMEQTIGKKIIGQDEALKAIADAVRLSRAGLQNTNRPLASFLFLGPTGVGKTALTKALAEFLFDTDKAMIRFDMSEFQEKHTIARLIGSPPGYIGYEESGELTEAVRRKPYAVLLFDELEKAHHDITNLLLQVLDEGFLTDSQGRKVDFRSTLIVMTSNLGSDILVADPSTTVTPKSRDAVMDVVQKYYPPEFLNRIDDQIVFNKLSEKNLEDIVNVRLDEVQQRLNDRRIILTVTEAARKWLAEKGYSPAYGARPLNRLIQKRILNTMAMKIIQGEIKSDENVVIDVLDGELEFKANKLEPQSTSHED |
| 2286 | sp|Q4UJV5|HTPG\_RICFE | MTQEKKKFDAEVGKILNLMIHSLYSNKEIFMRELISNASDACDKLRYLSQSNSELTSGDSNFKITVKVDKDKGQIIIRDNGIGMNKDDLIENLGTIARSGTANFLKSLSGDSKKDNMLIGQFGVGFYSSFMVADKVTVTSRKAGEDKVHVWESDGLGEYIVSESDKEFTRGTEIVLHIKKEEDTFLDHFRLKHIVKSYSDHIAVPIYFFDEAGNNEIQLNSASALWTRSKSEITEEQYKEFYKSLSYAIDDPWITLHNKNEGAIEFTNLLFIPSSKTFDLFHPDRKRRVKLYIKRVFISDENIDLIPSYLRFLRGVVDSEDLPLNISRESLQHNSVLEKIKNAITKRVLGELKKKKEESPEEYNKFWANFGGALKEGLCEATTDHEKLLEVCIFRSALHNKMISLDEYIAGFKEGQNTIYYLSGDNPDKLLSSPQIEGLLSKNIDVLLFTDTVDDFWVNVNSEYKGHAIKSATRSDIDVEQTTSQSEEKNADSKKSDDEYKLLTDYFKETLGELVKEVKISKKLTSSPACLAVSDAAMDIRMERFLIEQKQIAAASAKNLELNPKNKIIEKIFNDLKANNKNNEELVNLIFDQACILEGEPVADTGAFSKRLNDIVQKAIL |
| 2287 | sp|Q7VR10|HSPQ\_BLOFL | MIASKFKIGQQVRHKLLGYLGVVIDIDPEYSLEKPTLDEVTKNDSLRKFPWYHVVMEDDEGKPIHTYLAEIQLGYEDTVIHPEQSTLDDLAESIRLQLQTPRLRN |
| 2288 | sp|B7MS77|HSPQ\_ECO81 | MIASKFGIGQQVRHSLLGYLGVVVDIDPVYSLSEPSPDELAVNDELRAAPWYHVVMEDDNGLPVHTYLAEAQLSSELQDEHPEQPSMDELAQTIRKQLQAPRLRN |
| 2289 | sp|Q1RF62|HTPG\_ECOUT | MKGQETRGFQSEVKQLLHLMIHSLYSNKEIFLRELISNASDAADKLRFRALSNPDLYEGDGELRVRVSFDKDKRTLTISDNGVGMTRDEVIDHLGTIAKSGTKSFLESLGSDQAKDSQLIGQFGVGFYSAFIVADKVTVRTRAAGEKPENGVFWESAGEGEYTVADITKEDRGTEITLHLREGEDEFLDDWRVRSIISKYSDHIALPVEIEKREEKDGETVISWEKINKAQALWTRNKSEITDEEYKEFYKHIAHDFNEPLTWSHNRVEGKQEYTSLLYIPSQAPWDMWNRDHKHGLKLYVQRVFIMDDAEQFMPNYLRFVRGLIDSSDLPLNVSREILQDSTVTRNLRNALTKRVLQMLEKLAKDDAEKYQTFWQQFGLVLKEGPAEDFANQEAIAKLLRFASTHTDSSAQTVSLEDYVSRMKEGQEKIYYITADSYAAAKSSPHLELLRKKGIEVLLLSDRIDEWMMNYLTEFDGKPFQSVSKVDESLEKLADEVDESAKEAEKALTPFIDRVKALLGERVKDVRLTHRLTDTPAIVSTDADEMSTQMAKLFAAAGQKVPEVKYIFELNPDHVLVKRAADTEDEAKFSEWVELLLDQALLAERGTLEDPNLFIRRMNQLLVS |
| 2290 | sp|B1YIA9|HSLU\_EXIS2 | MHEFTPRQIVEKLNEHVIGQADAKRAVAIALRNRYRRQLLDPSLRDEVTPKNILMIGPTGVGKTEIARRLAKLVRAPFVKIEATKFTEVGYVGRDVESMVRDLVEASLRLVKDEKKEALKERAEAVANERIVDALVGKKASTGLGGGNPFEMLFGGTQKPPEQETANDTADRSVIRQQLFQGQLEDRMIDVDIEERQMDLFSGQQGMEGLANLQDMLGQVMPKKTKKRQLSVKEARPILTAEEAERLLDLNEVHDEAVRRAEQMGIIFVDEIDKIATKGQDSAGVSREGVQRDILPIVEGSTVVTKYGPVKTDHMLFIAAGAFHMAKPSDLIPELQGRFPIRVELDSLTEDDFVKILTEPNQALLKQYKALLGAEQVHVTFTEDAIRQIARIAAQVNDETDNIGARRLYTIMERVLEELSFEAAEMPETDVTITPQYVMDRVGKVADDRDLSQFIL |
| 2291 | sp|Q943E9|HS17B\_ORYSJ | MSLVKLFDTLAFDAWNPFSIFGTTVAADAWLASDTSAFANTYIESRETAEAYVFRADLPAGVKKEEVRVEVDEGNVLVITGERSVRREEKGQRSHHIERSCATFFGRFHLPDDAVVDLVRASMDGGMLTVTVPKVVTDKQPAIAAAAPVPAVVAPAVEAKAIEASP |
| 2292 | sp|B7M895|HSPQ\_ECO8A | MIASKFGIGQQVRHSLLGYLGVVVDIDPVYSLSEPSPDELAVNDELRAAPWYHVVMEDDNGLPVHTYLAEAQLSSELQDEHPEQPSMDELAQTIRKQLQAPRLRN |
| 2293 | sp|Q2S9P3|HSLU\_HAHCH | MSSMTPREIVQELDKHIIGQDSAKRAVAIALRNRWRRMQIDEGLREEVTPKNILMIGPTGVGKTEIARRLAKLADAPFIKVEATKFTEVGYVGRDVESIIRDLADMAIKLLREKEMTKVENRALDAAEERILDALLPPARSFNSDAPVEKESAARQVFRKKLREGTLDDKEIDIEIKATPVGVEIMAPPGMEEMTSQLQSMFSNMSGDRKRTKRMKVAEAMKKVKDEEAAKLVNEEEIKQRALRAVEENGIVFIDEIDKVAKRSETSSADVSREGVQRDLLPLIEGCTVSTKFGMLKTDHILFIASGAFHLAKPSDLIPELQGRLPIRVELDALSPSDFQRILTEPNASLTEQYVALMKTEGVDISFSEGAIQRIAEIAWKVNEKTENIGARRLHTVMEKLLEEVSFAAGDKIRDSFEVTAEYVDKCLGELSEDEDLSRYIL |
| 2294 | sp|Q5FS51|HTPG\_GLUOX | MSETNTQKAAEKHEFSAEVGRLLDLVVHALYSDREIFLRELVANAADATDKRRFEALTDSALALPENASIRINPDKSQKELTISDDGVGMTHDELAQNLGTIARSGTRAFGEKLNAAKPEDRPSLIGQFGVGFYAAFMVADRVDVTSRKAGSDEAWTWSSDGKGAFTLTPASRSTPGTDIVLHMKDDADEFLDSWRLRSIIRKWADHISWPITLRETKEDGTTEDQAANEGTALWSKPKSEITPEQYAEFYRHISHAFDEPYATLHWRAEGVTEFTALLFLPSARPFDFMEQSRESRIHLHVRRMFITDEAELVPNWMRFVQGVVDTEDLPLNVSREMLQATPVLARIRKAVTKRVLSEISKRAKEADSGFNSFWENFGAVIKEGLWEDAEHRTEIAGFARFHSTYSDDLITLDDYISRMKDGQDAIYYLTGDSLDALKSSAQLEGFRARGLEVLLLSDPVDGFWPERLSSYQEKPLRSVTHSHGDLEKFESVEADTTEAADVEKLVPALKDALGDQVKDVRSTVRLTGSAVVITSDGGPDLTMQRLMRRSGQAMPAMPPILEINPKHPLIKALAERVAKGESVKDYATVLLDLARVQEGEPLPDPTGFGRSLATLLAGPAAE |
| 2295 | sp|P16121|HSP70\_LUPPO | KVQDLLLLDVTPLSLGLETAGGVMTVLIPRNTTIPTKKEQVFSTYSDKEPGVLIQVFEGERTRTRDNNLLGKFELSGIPPAPRDVPQITVCFDIDANWCLNVSAEDKTTGQKNKITITNDKGRLSKEDIEKMVQEVEKYKAEDEEVKKKVDTKNALENYAYSMRNTITDDKITSKLPTEDKKKIEDTVDGAISRLDGNQLPEVEEFEDKMKELESLCNPIIAKMYQGVLAQMVLVLLIMADAPTGSGGAGPKIGEVD |
| 2296 | sp|P22954|HS702\_ARATH | MAGKGEGPAIGIDLGTTYSCVGVWQHDRVEIIANDQGNRTTPSYVAFTDSERLIGDAAKNQVAMNPVNTVFDAKRLIGRRFSDASVQSDRQLWPFTIISGTAEKPMIVVEYKGEEKQFAAEEISSMVLIKMREIAEAFLGTTVKNAVVTVPAYFNDSQRQATKDAGVIAGLNVLRIINEPTAAAIAYGLDKKATSVGEKNVLIFDLGGGTFDVSLLTIEEGIFEVKATAGDTHLGGEDFDNRMVNHFVQEFKRKNKQDITGQPRALRRLRTACERAKRTLSSTAQTTIEIDSLYGGADFYSPITRARFEEMNMDLFRKCMEPVEKCLRDAKMDKSTVHEIVLVGGSTRIPKVQQLLQDFFNGKELCKSINPDEAVAYGAAVQAAILSGEGNEKVQDLLLLDVTPLSLGLETAGGVMTTLIQRNTTIPTKKEQVFSTYSDNQPGVLIQVFEGERARTKDNNLLGKFELSGIPPAPRGVPQITVCFDIDANGILNVSAEDKTTGKKNKITITNDKGRLSKEDIEKMVQEAEKYKSEDEEHKKKVEAKNALENYAYNMRNTIRDEKIGEKLPAADKKKVEDSIEEAIQWLDGNQLGEADEFEDKMKELESVCNPIIAKMYQGGAGGEAGGPGASGMDEDEAPPASGGAGPKIEEVD |
| 2297 | sp|Q0HU95|HTPG\_SHESR | MSQQETHGFQTEVKQLLHLMIHSLYSNKEIFLRELVSNAADAADKLRYLALTNDALYEGDGELRVRISADKEKGTVTIEDNGVGMTRDGVIEHLGTIAKSGTAEFFKNLSGEASKDSQLIGQFGVGFYSAFIVAKKVTVRTRAAGHKANEAVLWESEGEGSFTVDTITKASRGTEITLHLRDEEKEFADEWRLRSIITKYSDHISVPVEMWQEGTPERDGPDGEKIPATEGYWKVMNKATALWMRNKSEISDEEYQEFYKHISHDYTDALLWSHNRVEGKQEYTNLLYIPSKAPWDLWNRDRKHGLKLFVQRVFIMDDAEQFMPSYLRFVQGLIDSNDLPLNVSREILQDNHITKAMRTGITKRVLGMLEKLAKDDAEKYQQFWAEFGQVLKEGPAEDFANRERIAGLLRFASTHTGSAAPTVSLDDYLSRMKEGQNKIYYIVADSHEAAANSPHLELLRKKGIEVLLMSERIDEWLINHLTEYKEKQLHSVTRGELELGELEDAAEKEAQEKLAEESAPLVERIKAALGASVADVKVTSRLTDTPACVVTGEGEMSSQMIKLMQAAGQPVPEVKPTFEINPAHPLVSRLNDLQDEAAFADWSNLLLQQAQLSEKGSLADPSAFIKLMNQMLLANLK |
| 2298 | sp|Q9QUK5|HSPB7\_RAT | SSSSSSASRALPAQDPPMEKALSMFSEDFGSFMLPHSEPLTFPARPGGQGNIKTLGDAYEFTVDMRDFSPEDIIVTTSNNHIEVRAEKKP |
| 2299 | sp|Q68Y08|HTPG\_RICTY | MTQEKKKFDAEVGKILNLMIHSLYSNKEIFMRELISNASDACDKLRYLSQSNSELISGDSNFKIIVKVDKDNEQIIIRDNGIGMNKEDLIENLGTIARSGTANFLKNLSGDSKKDNMLIGQFGVGFYSSFMVADKVTVTSRKAGENKVYTWESDGLGEYIVADSEQEFARGTEIVLYIKKAETTFLDHFRLKHIVKSYSDHIAVPIYFCDEASNNEIQLNSASALWTRPKSEITEEQYKEFYKSLSYSVDDPWVTLHNKNEGAIEFTNLLFIPSSKTFDLFHPDRKRRVKLYIKRVFISDENIDLIPSYLRFLRGVVDSEDLPLNISRESLQHNNVLEKIKNAITKRVLGELRKKKEELPEEYNKFWTNFGGALKEGLCEATTDHEKLLEVCIFRSALHNKMISIDEYIANFKEGQNTIYYLSGDNPDKLLSSPQIEGLLNKNIDVLLFTDTVDDFWVNVNSEYKGYAIKSATRSDIDVEHTTSRPQDKNTDSKKSDDEYKLLTDYFKEILGELVKEVKISKKLTLSPACLAVSDTAMDIRMERFLIEQKQIASASAKNLELNPKNKIIEKIFNDLKANNKNNEELVNLIFDQACILEGEPIADTGAFSKRLNDILQKAIL |
| 2300 | sp|B5FDN8|HTPX\_ALIFM | MKRIALFLATNLAVMIVFSIVLNIVYAVTGIQQGSLSGLLVMAVLFGFGGSLISLMMSKSMALRSVGGEVIEQPRNETEHWLLETVSRQAQQVGIGMPTVAIYDSPDMNAFATGAKRDDSLVAVSTGLLHSMTRDEAEAVLAHEVSHIANGDMITMTLMQGVVNTFVIFLSRMIANAVSGFTSSDEEGEGEGGSFMTYFIVSTILELAFGFLASFLTMWFSRHREFHADAGAAQLVGKQKMIAALERLRMGQESQLEGSMMAFGINGKKSLTELLMSHPPLEKRIDALRQM |
| 2301 | sp|Q2J346|HSLU\_RHOP2 | MTDFSPREIVSELDRFIVGQADAKRAVAIALRNRWRRLQLEGALREEVLPKNILMIGPTGVGKTEIARRLAKLANAPFLKVEATKFTEVGYVGRDVEQIIRDLVEVAIAQVREKKRKDVQARAQIAAEERVLDALVGPGSSPATRDSFRRKLRTGELNDKEIEIETQAGGGSPMFEIPGMPGGQIGAISIGDIFGKMGGRTKTRRLTVVDSHDILVNEEADKLLDNDQLVQEAINAVENNGIVFLDEIDKICVRDGRSGGEVSREGVQRDLLPLIEGTTVATKHGAVKTDHILFIASGAFHIAKPSDLLPELQGRLPIRVELNALSRDDMRRILTEPEASLIKQYVALLQTEGVTLEFGDDAIDALADVAVAVNSTVENIGARRLQTVMERVLDDISFGAPDRGGETIRIDADYVQKNVGDLAKNTDLSRFIL |
| 2302 | sp|Q3Z3F4|HSPQ\_SHISS | MIASKFGIGQQVRHSLLGYLGVVVDIDPVYSLSEPSPDELAVNDELRAAPWYHVVMEDDNGLPVHTYLAEAQLSSELQDEHPEQPSMDELAQTIRKQLQAPRLRN |
| 2303 | sp|Q2NU66|HSPQ\_SODGM | MIASKFGIGQQVRHKLLGYLGVIIDVDPEYSLEKPSLDDIAADDSLRTAPWYHVVMEDEEGKPVHIYLAEAQLGYESFPVHPEQPTLDELAESIRLQLQAPRLRN |
| 2304 | sp|B6EKC3|HTPX\_ALISL | MKRIALFLATNLAVMIVFSIVLNIVYAVTGIQQGSLSGLLVMAVLFGFGGSLVSLLMSKKMALRSVGGEVIEQPRNETEHWLMETVSRQAQQVGIGMPTVAIYDSPDMNAFATGAKRDDSLVAVSTGLLHNMTRDEAEAVLAHEVSHIANGDMITMTLMQGVVNTFVIFLSRMIANAVSGFTSNDEEGEGEGGSFMTYFIVSTVLEIAFGFLASFLTMWFSRHREFYADAGAANLVGKDKMIAALERLRMGQESQLEGSMMAFGINGKKSLTELLMSHPPLEKRINALRQL |
| 2305 | sp|P63017|HSP7C\_MOUSE | MSKGPAVGIDLGTTYSCVGVFQHGKVEIIANDQGNRTTPSYVAFTDTERLIGDAAKNQVAMNPTNTVFDAKRLIGRRFDDAVVQSDMKHWPFMVVNDAGRPKVQVEYKGETKSFYPEEVSSMVLTKMKEIAEAYLGKTVTNAVVTVPAYFNDSQRQATKDAGTIAGLNVLRIINEPTAAAIAYGLDKKVGAERNVLIFDLGGGTFDVSILTIEDGIFEVKSTAGDTHLGGEDFDNRMVNHFIAEFKRKHKKDISENKRAVRRLRTACERAKRTLSSSTQASIEIDSLYEGIDFYTSITRARFEELNADLFRGTLDPVEKALRDAKLDKSQIHDIVLVGGSTRIPKIQKLLQDFFNGKELNKSINPDEAVAYGAAVQAAILSGDKSENVQDLLLLDVTPLSLGIETAGGVMTVLIKRNTTIPTKQTQTFTTYSDNQPGVLIQVYEGERAMTKDNNLLGKFELTGIPPAPRGVPQIEVTFDIDANGILNVSAVDKSTGKENKITITNDKGRLSKEDIERMVQEAEKYKAEDEKQRDKVSSKNSLESYAFNMKATVEDEKLQGKINDEDKQKILDKCNEIISWLDKNQTAEKEEFEHQQKELEKVCNPIITKLYQSAGGMPGGMPGGFPGGGAPPSGGASSGPTIEEVD |
| 2306 | sp|Q27965|HS71B\_BOVIN | MAKNTAIGIDLGTTYSCVGVFQHGKVEIIANDQGNRTTPSYVAFTDTERLIGDAAKNQVALNPQNTVFDAKRLIGRKFGDPVVQSDMKHWPFRVINDGDKPKVQVSYKGETKAFYPEEISSMVLTKMKEIAEAYLGHPVTNAVITVPAYFNDSQRQATKDAGVIAGLNVLRIINEPTAAAIAYGLDRTGKGERNVLIFDLGGGTFDVSILTIDDGIFEVKATAGDTHLGGEDFDNRLVNHFVEEFKRKHKKDISQNKRAVRRLRTACERAKRTLSSSTQASLEIDSLFEGIDFYTSITRARFEELCSDLFRSTLEPVEKALRDAKLDKAQIHDLVLVGGSTRIPKVQKLLQDFFNGRDLNKSINPDEAVAYGAAVQAAILMGDKSENVQDLLLLDVAPLSLGLETAGGVMTALIKRNSTIPTKQTQIFTTYSDNQPGVLIQVYEGERAMTRDNNLLGRFELSGIPPAPRGVPQIEVTFDIDANGILNVTATDKSTGKANKITITNDKGRLSKEEIERMVQEAEKYKAEDEVQRERVSAKNALESYAFNMKSAVEDEGLKGKISEADKKKVLDKCQEVISWLDANTLAEKDEFEHKRKELEQVCNPIISRLYQGAGGPGAGGFGAQGPKGGSGSGPTIEEVD |
| 2307 | sp|A1JMW1|HSPQ\_YERE8 | MIASKFGIGQQVRHRLHGYLGVVIDIDPEYSLEPPAPDEVANNDTLRLSPWYHVVIEDDEGQPVHTYLAEAQLTYEDMDAHPEQPSLDELAASIRHQLQAPRLRN |
| 2308 | sp|Q54WT6|HSPJ\_DICDI | MSCSIILPNLINFINNDNNNIFEKNNEIQKQQQEEENKSNQVNNILNSIIESKFTSLNPKLKIQETPNQYQIKALIPLNFNKEEISVNVKNNRLIISAFKEIKFENQEKTKLTKFEKYQKTINVSNKNLDFSSIKAQFKDNTLTITIFKQSFEKEIKINIE |
| 2309 | sp|Q0AKC9|HSLU\_MARMM | MTDFTPREIVSELDRFIVGQADAKKAVAIALRNRWRRRQLDDALAEEVTPKNILMIGPTGVGKTEISRRLAKLAGAPFIKVEATKFTEVGYVGRDVEQIARDLVEIAINIVRETKREDVKAKAHAAAENRVVDALVGPNSSEATRESFRKRLLAGELDDKDVEIQLADSGAGMQMLDIPGMPTGGAGVINIGDILGKGFGQKTKTVRMKVKDAYEPLINEEADKLLDDSQITADAIKLAENDGIVFLDEIDKIAARSDARGGDVSREGVQRDLLPLIEGTTVATKHGSIKTDHILFIASGAFHVAKPSDMLPELQGRLPIRVELSALSEADLKRILVEPEASLIKQYVGLLATEGVSLDFTDDAIDALAKLAADFNASVENIGARRLQTVMEKLVEDISFTASDRSGQEITIDADYVAEHVGTLAKNADLSKFIL |
| 2310 | sp|Q03933|HSF2\_HUMAN | MKQSSNVPAFLSKLWTLVEETHTNEFITWSQNGQSFLVLDEQRFAKEILPKYFKHNNMASFVRQLNMYGFRKVVHIDSGIVKQERDGPVEFQHPYFKQGQDDLLENIKRKVSSSKPEENKIRQEDLTKIISSAQKVQIKQETIESRLSELKSENESLWKEVSELRAKHAQQQQVIRKIVQFIVTLVQNNQLVSLKRKRPLLLNTNGAQKKNLFQHIVKEPTDNHHHKVPHSRTEGLKPRERISDDIIIYDVTDDNADEENIPVIPETNEDVISDPSNCSQYPDIVIVEDDNEDEYAPVIQSGEQNEPARESLSSGSDGSSPLMSSAVQLNGSSSLTSEDPVTMMDSILNDNINLLGKVELLDYLDSIDCSLEDFQAMLSGRQFSIDPDLLVDLFTSSVQMNPTDYINNTKSENKGLETTKNNVVQPVSEEGRKSKSKPDKQLIQYTAFPLLAFLDGNPASSVEQASTTASSEVLSSVDKPIEVDELLDSSLDPEPTQSKLVRLEPLTEAEASEATLFYLCELAPAPLDSDMPLLDS |
| 2311 | sp|Q1CA18|HSPQ\_YERPA | MIASKFGIGQQVRHSLHGYLGVVIDIDPEYSLAPPEPDEVANNKTLRSSPWYHVVIEDDDGQPVHTYLAEAQLTYEDVDAHPEQPSLDELAASIRHQLQAPHLRN |
| 2312 | sp|P33125|HSP82\_AJECA | MSSETFEFQAEISQLLSLIINTVYSNKEIFLRELISNFSDALDKIRYKALSDPSKLESDKDLRIDITPDKENKTLTIRDTGIGMTKADLVNNLGTIARSGTKQFMEALTAGADISMIGQFGVGFYSAYLVADKVTVISKSNDDEQYIWESNAGGTFKVTQDDDGRAIGRGTKMILHLKDEQTEYLNESKIKEVVKKQSEFIFYPIYLHVLKENEKEVPDEDAEEVKDEGDDKAPKVEEVDEDEEDKTKAKKTKKIKENKIEEEELNKTKPIWTRNPADITQEEYASFYKTNDWEDHLAVKHFSVEGQLEFRAILFVPKRAPFDLFETKKTKNNIKLYVRRVFITDDATDLIPEWLSFIKGVVDSEDLPLGLSRETLQQNKIMKVIKNIVKKTLELFNEIAEDREQFDKFYSAFSKNIKLGVHEDAQNRPALAKLLRYNSTKSGDETTSLTDYVTRMPEHHKTIYYITGESLKAVQKSPFLDTLKEKNFEVLFLVDPNDEYAMTQLKEFDGKKLVDITKDFELEETEEEKKDREAEEKEYEGLAKSLENILGDKVEKVVVSHKLIGSPCAIRTGQFGWSANMERIMKAQALRDTSMSSRRSSRPTEGNDRTVKSITQLLFETSLLVSGFTIEEPSGFAGRIHKLVSLGLNIDEDAETSEEKEADTVVAEAPADSDMEEVD |
| 2313 | sp|Q9ULV5|HSF4\_HUMAN | MQEAPAALPTEPGPSPVPAFLGKLWALVGDPGTDHLIRWSPSGTSFLVSDQSRFAKEVLPQYFKHSNMASFVRQLNMYGFRKVVSIEQGGLLRPERDHVEFQHPSFVRGREQLLERVRRKVPALRGDDGRWRPEDLGRLLGEVQALRGVQESTEARLRELRQQNEILWREVVTLRQSHGQQHRVIGKLIQCLFGPLQAGPSNAGGKRKLSLMLDEGSSCPTPAKFNTCPLPGALLQDPYFIQSPLPETNLGLSPHRARGPIISDIPEDSPSPEGTRLSPSSDGRREKGLALLKEEPASPGGDGEAGLALAPNECDFCVTAPPPLPVAVVQAILEGKGSFSPEGPRNAQQPEPGDPREIPDRGPLGLESGDRSPESLLPPMLLQPPQESVEPAGPLDVLGPSLQGREWTLMDLDMELSLMQPLVPERGEPELAVKGLNSPSPGKDPTLGAPLLLDVQAALGGPALGLPGALTIYSTPESRTASYLGPEASPSP |
| 2314 | sp|Q6F8Q1|HTPX\_ACIAD | MMRIGLFLLTNLAVLVVAGIILSLFGVGSYHGAGGLNLGNLLVICFVFGMVGSLISLLMSKWMAKKTTGTEIIDPNAPRNQAEAWLLQTVAELSQRAGIQMPEVGIFPSYQSNAFATGWNKNDALVSVSTGLMERMNKDELRAVLAHEIGHVANGDMVTLALIQGVVNAFVMFFARVVGDFIDRNVFGRQDGEAPGMGYFAITIVLDIVFGILASAIVMWFSRHREYRADEAGARLAGKQAMISALLRLQAESEMPDQMPKEMKAFAIAEGKEQGFSLAALFQTHPSIEQRVAALQQLNCP |
| 2315 | sp|A2Q0Z1|HSP7C\_HORSE | MSKGPAVGIDLGTTYSCVGVFQHGKVEIIANDQGNRTTPSYVAFTDTERLIGDAAKNQVAMNPTNTVFDAKRLIGRRFDDAVVQSDMKHWPFMVVNDAGRPKVQVEYKGETKSFYPEEVSSMVLTKMKEIAEAYLGKTVTNAVVTVPAYFNDSQRQATKDAGTIAGLNVLRIINEPTAAAIAYGLDKKVGAERNVLIFDLGGGTFDVSILTIEDGIFEVKSTAGDTHLGGEDFDNRMVNHFIAEFKRKHKKDISENKRAVRRLRTACERAKRTLSSSTQASIEIDSLYEGIDFYTSITRARFEELNADLFRGTLDPVEKALRDAKLDKSQIHDIVLVGGSTRIPKIQKLLQDFFNGKELNKSINPDEAVAYGAAVQAAILSGDKSENVQDLLLLDVTPLSLGIETAGGVMTVLIKRNTTIPTKQTQTFTTYSDNQPGVLIQVYEGERAMTKDNNLLGKFELTGIPPAPRGVPQIEVTFDIDANGILNVSAVDKSTGKENKITITNDKGRLSKEDIERMVQEAEKYKAEDEKQRDKVSSKNSLESYAFNMKATVEDEKLQGKINDEDKQKILDKCNEIINWLDKNQTAEKEEFEHQQKELEKVCNPIITKLYQSAGGMPGGMPGGFPGGGAPPSGGASSGPTIEEVD |
| 2316 | sp|O65719|HSP7C\_ARATH | MAGKGEGPAIGIDLGTTYSCVGVWQHDRVEIIANDQGNRTTPSYVAFTDSERLIGDAAKNQVAMNPINTVFDAKRLIGRRFTDSSVQSDIKLWPFTLKSGPAEKPMIVVNYKGEDKEFSAEEISSMILIKMREIAEAYLGTTIKNAVVTVPAYFNDSQRQATKDAGVIAGLNVMRIINEPTAAAIAYGLDKKATSVGEKNVLIFDLGGGTFDVSLLTIEEGIFEVKATAGDTHLGGEDFDNRMVNHFVQEFKRKNKKDISGNPRALRRLRTACERAKRTLSSTAQTTIEIDSLFDGIDFYAPITRARFEELNIDLFRKCMEPVEKCLRDAKMDKNSIDDVVLVGGSTRIPKVQQLLVDFFNGKELCKSINPDEAVAYGAAVQAAILSGEGNEKVQDLLLLDVTPLSLGLETAGGVMTVLIQRNTTIPTKKEQVFSTYSDNQPGVLIQVYEGERARTKDNNLLGKFELSGIPPAPRGVPQITVCFDIDANGILNVSAEDKTTGQKNKITITNDKGRLSKDEIEKMVQEAEKYKSEDEEHKKKVDAKNALENYAYNMRNTIRDEKIGEKLAGDDKKKIEDSIEAAIEWLEANQLAECDEFEDKMKELESICNPIIAKMYQGGEAGGPAAGGMDEDVPPSAGGAGPKIEEVD |
| 2317 | sp|Q8SSE8|HSP82\_ENCCU | MSSNQEPLVEGKIKDKHSETHGFEVDVNQMMDTMIKSVYSSKELFLRELVSNSSDACDKLKALYFQLREKGCVLDPVTSLGIEIIPNKDNRTLTIKDNGIGMTKPDLMNFIGTIASSGTKKFREEMKEKGNSADASNLIGQFGLGFYSSYLVAERVDLITKHPSDEALVWTSTGRDVYTIEEYDGEPFAHGTSLVLYIKEGEEEFLDPKRISEIVKKYSLFVFYPIYTYVEKEIEEPEEKKDEEKEDEKVEEETAEPRVEEVREKRLKKVTEREQINVEKPLWKRNIKEVPEEELKSFYKTVSGDWDDFLAVDFWHIEGLLSIELLMFIPKRARFDMFNKNKKNNNIKLYCKNVFVTDDFGDAIPEWMSFVSGVVASDDIPMNISREMIQGTNVMKLVKKTLPQKIFEMIGKLALDAEKYKTFYKEFGNCLKMAIGEASEGQQDGYAKCLRYFTTKSGEEAISLDTYVERMAPNQKQIYVITGLSKEQVKSNPALDAFQKYEVIYMHEVMDEVMLRGLKKYKGHTIQRITSEGVELPEDEASNEEVVKSFEEFCKKVKDILSSKVEKVTVNPRLVSVPAVISTTKYSLSGTMENIMKSQPVTEANPFAAMTAVSKKIFEMNPNHQLVKNLKALFDSNEIEKMNRILEVFFETVLIHNGFVLSDPKGFCANVFDFLCSEEVRCEEPVEEVQ |
| 2318 | sp|Q11UQ9|HSLV\_CYTH3 | MEKIHATTVVAIRHNGQISIGADGQATLGNTVVKDYVKKVRKLMEGKVLCGFAGSTADAFTLLERFEEKLNTYAGNMKRAAIELAKDWRTDRYLRKLEAMMIVVNKDELLLISGTGDVIEPDNDILSIGSGSMYAQSAAAALKKHATHLSAPEMVRESLSIAADICIYTNHNFVIETAVA |
| 2319 | sp|B0RS04|HTPX\_XANCB | MFNRVVLFLLTNFAVLILAGIVMSVLGVNPAQMSGLLVMAAIFGFGGSFISLLLSKFMAKRSTGAQVITEPRTQTERWLVDTVRRQAQAAGIGMPEVAIYDGPEINAFATGANRNNALVAVSTGLLQHMREDEAEAVLGHEIAHIANGDMVTMALLQGVLNTFVIVLARVVGGIIDSALSGNRDSGRGFAYYIIVFVLEMVFGLFATMIAMWFSRRREFRADAGGAQLAGRNKMIAALERLSLNHGQNTLPSQVQAFGISGGVGEGLRRLFLSHPPLTERIAALRASNGTAM |
| 2320 | sp|B7N133|HSLO\_ECO81 | MPQHDQLHRYLFENFAVRGELVTVSETLQQILENHDYPQPVKNVLAELLVATSLLTATLKFDGDITVQLQGDGPMNLAVINGNNNQQMRGVARVQGEIPENADLKTLVGNGYVVITITPSEGERYQGVVGLEGDTLAACLEDYFMRSEQLPTRLFIRTGDVDGKPAAGGMLLQVMPAQNAQQDDFDHLATLTETIKTEELLTLPANEVLWRLYHEEEVTVYDPQDVEFKCTCSRERCADALKTLPDEEVDSILAEDGEIDMHCDYCGNHYLFNAMDIAEIRNNASPADPQVH |
| 2321 | sp|P15108|HSC82\_YEAST | MAGETFEFQAEITQLMSLIINTVYSNKEIFLRELISNASDALDKIRYQALSDPKQLETEPDLFIRITPKPEEKVLEIRDSGIGMTKAELINNLGTIAKSGTKAFMEALSAGADVSMIGQFGVGFYSLFLVADRVQVISKNNEDEQYIWESNAGGSFTVTLDEVNERIGRGTVLRLFLKDDQLEYLEEKRIKEVIKRHSEFVAYPIQLLVTKEVEKEVPIPEEEKKDEEKKDEDDKKPKLEEVDEEEEEKKPKTKKVKEEVQELEELNKTKPLWTRNPSDITQEEYNAFYKSISNDWEDPLYVKHFSVEGQLEFRAILFIPKRAPFDLFESKKKKNNIKLYVRRVFITDEAEDLIPEWLSFVKGVVDSEDLPLNLSREMLQQNKIMKVIRKNIVKKLIEAFNEIAEDSEQFDKFYSAFAKNIKLGVHEDTQNRAALAKLLRYNSTKSVDELTSLTDYVTRMPEHQKNIYYITGESLKAVEKSPFLDALKAKNFEVLFLTDPIDEYAFTQLKEFEGKTLVDITKDFELEETDEEKAEREKEIKEYEPLTKALKDILGDQVEKVVVSYKLLDAPAAIRTGQFGWSANMERIMKAQALRDSSMSSYMSSKKTFEISPKSPIIKELKKRVDEGGAQDKTVKDLTNLLFETALLTSGFSLEEPTSFASRINRLISLGLNIDEDEETETAPEASTEAPVEEVPADTEMEEVD |
| 2322 | sp|Q03FR9|HRCA\_PEDPA | MLTDRELLILEEIVREYTENGQPIGSKTLMNNLPVKVSSATIRNDMAKLEEMGLIEKMHSSSGRIPSLMGYRYYVDHLLSPKKLNQSEAQQIQKGLGMHFREVDDIVRTSAEMLSNLTHYTALTLKPDQKDATLDGFRMVPLGGNQVMLILVSSNGDVTSQQFSIPRGMNSETVERVLRIMNDRLIGETLDQVYYHLKTDIPKIVEHYLHSNDGIIDIFENVVAQSSQDRYFIGGKLNILNFSKNVDVSSIRGLLTLFNENDQLDGLLGNNQSDLDVKIGDELSNALLKDFSLITATYDVGSRGKGLIAILGPTSMQYSKTLGLLDTFRDQLSNRMLEYYKHLDDS |
| 2323 | sp|A0PTU2|HRCA\_MYCUA | MGTADERRFEVLRAIVADFVATHEPIGSKSLVERHNLGVSSATIRNDMAVLEAEGYIAQPHTSSGRVPTEKGYREFVDRLDDVKPLSMVERRAIQGFLESGVDLDDVLRRAVRLLAQLTRQVAVVQYPTLSTSKVRHLEVIALTPARLLVVVITDSGRVDQRIVELGDVIDDHQLSQLRELLGQALEGKKLAAASVAVADFAGQLSGAGGLGDAVGRSATVLLESLVEHTEERLLMGGTANLTRNAADFGGSLRSILEALEEQIVVLRLLAAQQEAGKVTVRIGHETEAEQIVGTSMVSTAYGSNDTVYGGMGVLGPTRMDYPGTIASVAAVALYIGEVLGAR |
| 2324 | sp|B2FUV7|HSLV\_STRMK | MDPSQNPNVFHATTIVCVRRGEHVAIAGDGQVTLGHTVMKGNARKVRRLGRDGQVLAGFAGAAADAFTLFELFEAKLEKHGQLQRAAVELAKDWRTERRLGKLEALLAVADKETSLIISGTGDVIEPEDGIIAIGSGGSYALSAARALMAHTELDARTIASEAIGIAGDICIYTNRNVVVEEL |
| 2325 | sp|B5ZBR8|HRCA\_UREU1 | MKNNKILQEQIIEPKLSDRQKKVLKSIIDEYTITATPVSSKLLVQKEFQDQSSATIRNEMMLLEKFGFIEKQHISGGRVPSLKGYDFYNKNLINKNNDVSDNFKMRLHKILSKRYSNIDEILNAAVSIINETTQLPAVVTKSSSEELLKRIDLVKINDNSALVLIVTSSENILTHSIKLDKNTNFNDLQTCFSVLDERLVDTKLSLISSKLDLIVDIVRAKIEEAEYYFSKIVHRVFDFYAHKPTVNSKTYGVKYLTKHSEFEDQQKLNDLLNLLEDSTIWQQIALNKKTDGLAKIMLGNEIGHEHLAIATAQINLPNTNRQITVVGPTRMDYAKIKALLDFLKIEVEKILGSSNEH |
| 2326 | sp|C1CCQ6|HRCA\_STRZJ | MVTERQQDILNLIIDIFTKTHEPVGSKALQESINSSSATIRNDMAELEKQGLLEKAHTSSGRMPSVAGFQYYVKHSLDFDRLAENEVYEIVKAFDQEFFKLEDILQEAANLLTDLSGCTVVALDVEPSRQRLTAFDIVVLGQHTALAVFTLDESRTVTSQFLIPRNFLQEDLLKLKSIIQERFLGHTVLDIHYKIRTEIPQIIQRYFTTTDNVIDLFEHIFKEMFNENIVMAGKVNLLNFANLAAYQFFDQPQKVALEIREGLREDQMQNVRVADGQESCLADLAVISSKFLIPYRGVGILAIIGPVNLDYQQLINQINVVNRVLTMKLTDFYRYLSSNHYEVH |
| 2327 | sp|Q5GZ91|HTPX\_XANOR | MFNRIFLFLLTNVAVLMLAGVVMSVLGVNPAQMSGLLVMAAIFGFGGSFISLLLSKFMAKRSTGAQVITEPRTPTERWLLETVRRQAQAAGIGMPEVAVYDGPEINAFATGANRNNALVAVSTGLLQHMDQDEAEAVLGHEIAHVANGDMVTMALLQGVLNTFVIVLARVVGGIIDSAVSGNRDSGRGFAYYIIVFVLEMVFGMFATMIAMWFSRRREFRADAGGAQLAGRSKMIAALERLSLNHGQNTLPSQVQAFGISGGVGDGLRRLFLSHPPLTERIAALRAANGTAM |
| 2328 | sp|Q1JA81|HRCA\_STRPB | MITQRQNDILNLIVELFTQTHEPVGSKALQRTIDSSSATIRNDMAKLEKLGLLEKAHTSSGRMPSPAGFKYFVEHSLRLDSIDEQDIYHVIKAFDFEAFKLEDMLQKASHILAEMTGYTSVILDVEPARQRLTGFDVVQLSNHDALAVMTLDESKPVTVQFAIPRNFLTRDLIAFKAIVEERLLDNSVIDIHYKLRTEIPQIVQKYFVTTDNVLQLFDYVFSELFLETVFVAGKVNSLTYSDLSTYQFLDNEQQVAISLRQSLKEGEMASVQVADSQEAALADVSVLTHKFLIPYRGFGLLSLIGPIDMDYRRSVSLVNIIGKVLAAKLGDYYRYLNSNHYEVH |
| 2329 | sp|A1BHL3|HRCA\_CHLPD | MESRDLNLRERQVLGIIIQAYVVSAAPVGSRYIARNCNLGLSDATIRNVMADLEDEGYISQPHTSAGRTPTDKGYRYYVDLIMKVRRVNDEEKKRIDADFGQLTTERRGSSSEVLLSAAKVLGSISRQLSVVLSPALSNAVFEKLDMVLLSSTRMMVILSIQSLIVKTIVMELDLAVSRQEVSGVVDLLNQRLSGLTLSEIRKTISMRLSDCLADASLINFVVRSAGQLFDETPIIERLYISGAGYIVDQPEFKQPEKVRDFITMIEDKFSVAKLVERNRIYSETVHPSRMEVSISIGKENRERKAEDLTIVSTPYYVGGMMGKLGILGPTRMDYGHAVSVLNYMADCLSATLSEVN |
| 2330 | sp|C0M7T7|HRCA\_STRE4 | MITERQSNILNLIVDLFTQTHEPVGSKALQSLIASSSATIRNDMAKLEKLGLLEKAHTSSGRMPSAAGFKYFVEHSLNLGSIDEQDLYQLVKAFDFEAFKLEDVLLRASQMLSDTTGYTAAILDVEPARQRLTGFDIVQLSSHDALAVLSLDESKPLTVQFAIPKNFMNRDLLVLKGIVADRLLGKDVMTVHYKLRTEIPQIVQKYFTVTDNVLDLFDYIFVGLFRETIFVSGKVAALDYAGLATYQFLDEEQRLALSIRQSLSEEEMATVQVADSSEPALANVTLLTYKFLIPYRGFGLLSLIGPVDMDYRRSVSLINVIGQLLAVKLRDYYRYLNSNHYEVH |
| 2331 | sp|Q8GH81|HRCA\_CHLAB | MSKSWISKRESKLLYILLTTTELYLKTGQPVGSKTLKEYECSNLSTATIRNYFAELEAEGFLKKNHVSGGRIPTDLAFRYYVDHRADFLQDDLPETTIHLLNQLPKESQNIVKDLQKASELLGEALQLPTCFSSPRFENDSVTNIQLSLVDEQRVVVILSTEFGQIFTDTLWLAETSNYASLKRIETFLQNYLRKQPPSETLSQKEEDLGMTLYNEVVVRYLTRYCNFSEEDLYQTGLSKLLKYDAFKDPDMLALGLSFFESRCHMCKLLDIGMHRDRPTAFIGSELSDIFGTPNPHCAVITTPYYMNRTPLGAFGVLGPINLPYREIYKTLTIFADKVKESLTQSFYKFKLSFRRPCPSDPKLSKEPTLLARYSSIKLLPPKETS |
| 2332 | sp|Q8G6C7|HRCA\_BIFLO | MTQSRRMLVLRAVVEDYIRSQEPVGSTSLTRDHDLGVSSATIRNDMAALEDEGYLIQPHTSAGRVPTEKGYRYFVDRLATVVPLSEAQRRGINSFLSGSVSLKDALQRSARLLSEITGQVAVVASPSLAKATLRHVEMVPVAMTTLLAVVITDTGRVAQHGLTIASMPAVDEINRLSNTVNEQCDGLSLSKSAETVRSIAASAGYESVRGVADTLADAFESMALDERANELYMSGTSHLAHSRSLADLAPLFDALEEQVVLMKLMSNLSEETNASGVGVAIGSEMHTPGLLHASVVSSGYGRSGAAGEPAGNDPVGEPETESETESQTNDTEPIAFVGSIGPTHMDYAATMAAVRAVARYLTAFLSEGRTQD |
| 2333 | sp|Q83L29|IRAM\_SHIFL | MKWIVIDTVIQPSCGISFSVIWSKIKLIIWYQSDAFLPPESIFTLTHTGIMLNNKVLPVTIYNVVPFNKTFWNLIKNSQECPTNTDNVLNECFNNRCTLQICPYGLKQQSP |
| 2334 | sp|B7UQW3|IRAD\_ECO27 | MMRQSVQTVLPESTGNNTLSLRDSVCRDLFQLFSSPHSPLPILLVSGMPEWQGHNQSDKLLQSWYCRQLRSALLFHEPRIAALQVNLKAVYCHELVISLDMMLYHDDEPLTFDLVWQKGSWHRTMPQ |
| 2335 | sp|A9N4T4|IRAD\_SALPB | MMTPTIPVALFDRLLVEGISPHELVRRKLMCLFNSCAVPGGETLPPLLTRGMPEWHEVNVGDKRVLNWFCRELRAAILRYEPSINMLKVSVKDAHHQTLALSLEAMLQDESEPLRLEIAYSNGRWR |
| 2336 | sp|Q7CR46|IRAP\_SALTY | MKNLIAELLLKLAQKEEESKELVAQVEALEIIVTAMLRNMAQNEQEMLIRQVEGALEGVKPDASVPDHDTELLRQYVKKLLRHPRH |
| 2337 | sp|B1LIR6|IRAP\_ECOSM | MKNLIAELLFKLAQKEEESKELCAQVEALEIIVTAMLRNMAQNDQQRLIDQVEGALYEVKPDASIPDDDTELLRNYVKKLLKHPRQ |
| 2338 | sp|B7LGR5|IRAM\_ECO55 | MKWIVIDTIIQPSCGISFSAIWGNMKMIIWYQSTIFLPPGSIFTPVKSGIILKDKEYPITIYNIAPFNKDLWSLLKSSQECPPGESKITNKCLHNSCIIKICPYGLK |
| 2339 | sp|Q6AS16|LON1\_DESPS | MAEEPTILTPDGVENPDHDDLQFPARMEDILPEMLMVIPLYERPMFPKMMGPIIIEDMRLQKFILSQKDKKVPLFFALLLTRQDPDGQVKAPESADDFYDVGVVAKVIQISPLTIGEPLQFIVEIKARFDVVKLIKKEPLFQVEVKYWQEEKIKVTDELKAYSTAIIDSIKELVHLNPIFREGLSLLIERINLHEPGSLADFSAAMTTSSGPEIQKVLATRSVRKRIELALVLIKKELEISKLKVKISSRIEEQLSKQQREFFLKQQLQEIKKELGLTKDDTQTEMEKYENRIKDLHLPEEAQERIDEELEKIRLLGPSSPEFNVSRTYLDWLTMMPWGVYTKDNYSVKKARKILDDDHHGLDDVKDRIIELISVGSIKGELTGTILLLTGPPGVGKTSVGQSIARSLGRKFFRFSLGGMRDEAEIKGHRRTYIGAMPGKVIQAIKSCKSANPLIMLDEIDKIGASFRGDPASALLEVLDPEQNSDFLDHYLDVRFDLSKVLFICTANLLDTIPPALLDRMERIELPGYILAEKIAIARKHLIPRQMKHHGLRPSQIIISNPVLTAIVEGYAREAGVRGLETCIRKILRKTITSHLAGGLEKVRIRKRDLRGLLGRRLFAEEQVYSTPRVGVITGLAYTNMGGTTLYIESLAVPTGDSGFKQTGQLGKVMIESSEIAYSYIRFLLGDDSAAVKFFNKNFIHLHVPAGATPKDGPSAGITMACSLYSMATGKTIVPGVAMTGELTLTGLVMPIGGVKEKMIAARRAHVKQVILPKENEEDFDMLPDYIKEDLSAKFVETFEDVLKICFK |
| 2340 | sp|Q9FKB0|LSM5\_ARATH | MANNPSQLLPSELIDRCIGSKIWVIMKGDKELVGILKGFDVYVNMVLEDVTEYEITAEGRRVTKLDQILLNGNNIAILVPGGSPEDGE |
| 2341 | sp|B0S2N4|LON\_FINM2 | MKEYYTISEKKLPIIALRGLWLFPNNIQHFEVGREVSLNALNASLLRNSEIFICTQKDPMLENITKEDFYHTGVLASIKQTIKMPNGNIRVLVEAYDRAKIVDFVENDSFLEANVEVMEYDKTKYHPTDKSLTMIRMIISSFESLAEIIKKPLPQDLLGGLLNEEDPSSLIDTIAMLISLNDKDSILLLETLDMDERIELVYKFVIKEIEFLKIKEDIEERTNKEISDTQKEYFLQEQLRQIKMELGEEYDIEDTDDYANRVKKLKLKKDSEEHVLKEINRLSSMNPNNPESTVIRNYIDQVLDIPWNKKSKSSIDLKVAEKVLNDGHFGLEDVKKRILEYLAVKKMTGSLKGPILCLVGPPGVGKTSIARSIADATNRKFVSMRLGGVRDEAEIRGHRKTYIGAMPGRIITQLQKAKKLNPVFLLDEIDKLASDFRGDPASALLEVLDPEQNSEFTDNYIEIPVDLSDVLFITTANSQEQIPDALLDRMEVIRVTSYTDSEKFEIANRYLLPRQLKENGMDKSQFHITRDAIYTIINNYTRESGVRELERNIGKVIRKAVVKIVKDDVKKVVVNNKNLEKFLGSKLVLDDEIPREDTVGVVNGLAWTQVGGVILTIEANVMDGSGKTQLTGKLGDVMKESAMAAISYIRSNQEALGIKGEFYKEKDIHIHVPEGAVPKDGPSAGVTMVTALVSALTGRKVKHDFAMTGEITLTGRVLAIGGVKEKVLAAHRYGINKVFLPKENKRDIQDIDPKIRQKIKFYFTSNVKEILDEVLI |
| 2342 | sp|Q97FT9|LON\_CLOAB | MNQENKVLPLIPLRGLIVFPYMVVHFDVGRDKSIEALEKAMMNDQQIFLSTQKDAKIEEPNEDDINSVGTICSIKQILRLPGDAVRVLVEGISRGKIDKYLKQEPFIEAEITEFKDEDNYEEYEIKALMRIITKEFGKYVKLSGAVTKDAVDFLKDIKEPGKFADIVSSYLIIKQEQKQSVLNSIDEKERLENVLTVIKDELQILELERNIGVKVKEKIDKSQREYYLREQIKVMQDQLGDDDEEKAEIKEYTQKIKKGKLTKEAKEKALHELKKLENAGAYSPEGAGIKTYLDWILSLPWKDKTKDNLDIKRAREILNKEHYGLSDVKDRIIEYLAVKKMSKSLKGPILCLVGPPGVGKTSIAKSIANAVNRNFVRISLGGVNDEAEIRGHRRTYVGAIPGRIIYGMKQAKSNNPLMLLDEIDKMSSSYKGESADALLEVLDTSENNKFRDNYLELDFDLSDVMFVTTANTLETIPRPLMDRMEIIEVSGYTYEEKFHIAKEHLIPKQLEEHNMPEDKKITFMDSSIYYIIENYTRESGVRSLERKIAAIIRKIITEIVEKDKSSISVNSRTVKKYLGEDVFSADKIDKEDKIGVVTGMAWTAYGGDTLPVEAVIMPGNGKLQLTGQLGDVMKESAQAGYSYVRANSVKYGIDKEFYKNKDIHVHVPEGAVPKDGPSAGVTMITAMVSALSDKKVKHNVAMTGEITLTGRVLAIGGLKEKTLAAYRAGVDTIIIPKQNEKDINKVPKAIRGKIKFILAEEVDTVLENALIGGINNDN |
| 2343 | sp|A8HYF7|LON\_AZOC5 | MVNTPVPGLGSCASRGLIAAPASIIRSRPGCDHAGECIVVCVGVFRKDWVMTSPKQRPPLVPGVAQTFPVLPLRDIVVFPHMIVPLFVGREKSIRALEEVMRGDTYILLATQENASDDDPATDAIYRVGTLATVLQLLKLPDGTVKVLVEGVTRAQVVQYTDRADLYEAEAISLPDEVGDVVEAEALARSVVNEFENYVKLNKKVSPEVVGVVGQIEDHAKLADTIASHLAVKIPEKQAVLETVKVADRLEKVLGLMESEISVLQVEKRIRTRVKRQMEKTQREYYLNEQMKAIQKELGDEDGRDDLQELEDRIKRTKLTKEAREKATHELKKLRQMSPMSAEATVVRNYLDWLLSIPWGIKSKVKKDLPFAQSVLDSDHYGLDKVKERIVEYLAVQSRANKLAGPILCLVGPPGVGKTSLGRSIAKATGREFVRVSLGGVRDEAEIRGHRRTYIGSMPGKIIQSMRKAKKSNPLFLLDEIDKMGADFRGDPSAALLEVLDPEQNPTFNDHYLEVDYDLSNVMFVTTANTLNIPPALLDRMEVIRIAGYTEDEKAEISRKHLIPNALQKHGLSAKEWSIDDAALLQVIRRYTREAGVRNLEREISTLARKAVKELVISKKKSVKVTAKNLETFLGVPRFRYGEIEREDQVGVVTGLAWTEVGGELLTIEGVMMPGKGRMTVTGNLKEVMKESISAAASYVRSRSVDFGIEPPLFERRDIHVHVPEGATPKDGPSAGVAMATTIVSVLTGIPVRRDVAMTGEITLRGRVLPIGGLKEKLLAALRGGIKKVLIPEENAKDLADIPDNVKNALEIIPVSRMDEVLHHALLRHPEPISWTEQPVSGAVVPDEDAAGVVAH |
| 2344 | sp|Q9FX43|M2K9\_ARATH | MALVRERRQLNLRLPLPPISDRRFSTSSSSATTTTVAGCNGISACDLEKLNVLGCGNGGIVYKVRHKTTSEIYALKTVNGDMDPIFTRQLMREMEILRRTDSPYVVKCHGIFEKPVVGEVSILMEYMDGGTLESLRGGVTEQKLAGFAKQILKGLSYLHALKIVHRDIKPANLLLNSKNEVKIADFGVSKILVRSLDSCNSYVGTCAYMSPERFDSESSGGSSDIYAGDIWSFGLMMLELLVGHFPLLPPGQRPDWATLMCAVCFGEPPRAPEGCSEEFRSFVECCLRKDSSKRWTAPQLLAHPFLREDL |
| 2345 | sp|Q21307|MEK1\_CAEEL | MERDFDLGMGRPGGLGGLGGEPIMQQMPQPAPHHPSRSSNDHNVKNLMKQAEENSGYLTLQGNRRKADLKELQFVEDIGHGSCGTVTKCRYKSVIMAVKTMPRTSNSYEMSRILMDLDVICLSFDCPYIVRCFGYFITNFDVRVCMECMATCLDRLLIRIKQPIPERIIGKLSVSIIKALHYLKTKHQIMHRDVKPSNILLDWSGVIKLCDFGIAGRLIESRAHSKQAGCPLYMGPERLDPNNFDSYDIRSDVWSFGVTLVELATGQYPYAGTEFDMMSKILNDEPPRLDPAKFSPDFCQLVESCLQRDPTMRPNYDMLLQHPFVVHHEKIETDVEEWFADVMGECG |
| 2346 | sp|O43318|M3K7\_HUMAN | MSTASAASSSSSSSAGEMIEAPSQVLNFEEIDYKEIEVEEVVGRGAFGVVCKAKWRAKDVAIKQIESESERKAFIVELRQLSRVNHPNIVKLYGACLNPVCLVMEYAEGGSLYNVLHGAEPLPYYTAAHAMSWCLQCSQGVAYLHSMQPKALIHRDLKPPNLLLVAGGTVLKICDFGTACDIQTHMTNNKGSAAWMAPEVFEGSNYSEKCDVFSWGIILWEVITRRKPFDEIGGPAFRIMWAVHNGTRPPLIKNLPKPIESLMTRCWSKDPSQRPSMEEIVKIMTHLMRYFPGADEPLQYPCQYSDEGQSNSATSTGSFMDIASTNTSNKSDTNMEQVPATNDTIKRLESKLLKNQAKQQSESGRLSLGASRGSSVESLPPTSEGKRMSADMSEIEARIAATTAYSKPKRGHRKTASFGNILDVPEIVISGNGQPRRRSIQDLTVTGTEPGQVSSRSSSPSVRMITTSGPTSEKPTRSHPWTPDDSTDTNGSDNSIPMAYLTLDHQLQPLAPCPNSKESMAVFEQHCKMAQEYMKVQTEIALLLQRKQELVAELDQDEKDQQNTSRLVQEHKKLLDENKSLSTYYQQCKKQLEVIRSQQQKRQGTS |
| 2347 | sp|P0C5H9|MANF\_RAT | MWATRGLAVALALSVLPDSRALRPGDCEVCISYLGRFYQDLKDRDVTFSPATIEEELIKFCREARGKENRLCYYIGATDDAATKIINEVSKPLAHHIPVEKICEKLKKKDSQICELKYDKQIDLSTVDLKKLRVKELKKILDDWGEMCKGCAEKSDYIRKINELMPKYAPKAASARTDL |
| 2348 | sp|Q9Z5G7|MPRB\_MYCLE | MVRFAWRRRASLRATSSLSLRWRVMLLAMSMVAMVVVLMAFAVYVVISAALYSDIDNQLQSRAQLLIASGSLAADPGKAIEGTAYSDVNAMLVNPGHSIYTANQPGQTLPVGTAEKAVIRGELFMSQRTASDQRILAIHLPNDSSLLISKSLRPTEAVMTKLRWVLLIVGSLGVAVAAVAGGMVTRAGLRPVGRLTEAAERVARTDDLRPIPVFGSDELARLTEAFNLMLRALAESRERQARLVTDAGHELRTPLTSLRTNVELLIASMAPEAPRLPDQEMADLRADVLAQIEELSTLVGDLVDLTRDDAGQVVHEPIDMSEVLYRSLERVRRRRNDIHFDVQAIGWQIYGDAAGLSRAVLNLMDNAAKWSPSGGRVVVTMRQFDPSHVELVVSDYGPGIPPQERRLVFERFYRSTTARSLPGSGLGLAIVKQVVINHGGLLRVEDTAPGVQPPGTSIYVLLPGRPMPVSAYSTLADQDMGEANFQDKIGPAVQVSGKSANFRDSAHVISVDYQSARAR |
| 2349 | sp|Q742C0|MPRB\_MYCPA | MIRLYRPQRPPLRAPLRATPSLSLRWRVMLLAMSMVAMVVVLMAFAVYAVISAALYSDIDNQLQSRAQLLIASGSLAADPGKAIEGTAYSDVNAMLVNPGHAIYTAQQPGQTLPVGSPEKAVIHGELFMSRRTAGDQRILAVHLQNGTSLLISKSLKPTEAVMNKLRWVLLIVGGVGVAVAAVAGGMVTRAGLRPVARLTEAAERVARTDDLRPIPVFGSDELARLTESFNLMLRALAESRERQARLVTDAGHELRTPLTSLRTNVELLMASMEPGAPRLPEQEMVELRADVLAQIEELSTLVGDLVDLTRDDAGQVVHEPVDMSDVIDRSLERVRRRRNDIHFDVDVTPWQMYGDAAGLSRAVLNLLDNAAKWSPPGGHVGVTMRQLDPSHVELVVSDHGPGIPPQERRLVFERFYRSTSARAMPGSGLGLAIVKKVVLNHGGMLRVEDTVPGGQPPGTSFYVLLPGRSLPPAGHSTPAGESETDQAEAATDPAVPVAGDTANSRESANVISVDSQSARAR |
| 2350 | sp|P47809|MP2K4\_MOUSE | MAAPSPSGGGGSGGGGGTPGPIGPPASGHPAVSSMQGKRKALKLNFANPPVKSTARFTLNPNTTGVQNPHIERLRTHSIESSGKLKISPEQHWDFTAEDLKDLGEIGRGAYGSVNKMVHKPSGQIMAVKRIRSTVDEKEQKQLLMDLDVVMRSSDCPYIVQFYGALFREGDCWICMELMSTSFDKFYKYVYSVLDDVIPEEILGKITLATVKALNHLKENLKIIHRDIKPSNILLDRSGNIKLCDFGISGQLVDSIAKTRDAGCRPYMAPERIDPSASRQGYDVRSDVWSLGITLYELATGRFPYPKWNSVFDQLTQVVKGDPPQLSNSEEREFSPSFINFVNLCLTKDESKRPKYKELLKHPFILMYEERTVEVACYVCKILDQMPATPSSPMYVD |
| 2351 | sp|A5DXA0|NST1\_LODEL | MSNRGNLNLNLPPSSGKYTVGENVHFELSKEKNNSTNSNPHTSSTSTSNSNNTGIGVAKSLSTNDNNNDNDNQQPQQHEQIQSKAKSQSQSQSQSQSQPQTQVQVEQQQQQQSLVNSPAAQLAAKKRKKKKSKKSSNNNGNNSNTNSNSNSEITNTSISMPHAFLNNPDEDYPTSRVIKQAPNGDVIVESLDHVGGTYEDHLHDDYSDEDTLHHHLRQAPHQASNNNHIHNHSHTSSHPLQHTPNHLHHASHNANPLTQHISASGASMRSHGHNDAHSNLWDSASLEEQEKLKEFWESLEESQKLDLVKIDKQSIMKMFKNETRQHLQQLLQNGVLNNQNASSSNNCACKYCGRRNNIIEEELENIYDNHFDDIIDFIHEVRDINDLNALPGLLFGGFHMLEEERRLQKRKQLHNEHLELAKSSNLQNQAHIEEIRAQMDKLKMNQRQQSQSQSQSQSQQQRDVQTAQSQVLSKDSSLKNANTSMNKQHTSQQLLQPQIQAQGKNNLQQNHHTHHHHQQPLQHPTVQISATFLSSNPTETQLFNKLLDPKLFEALESLDLQKMKEVSHFDPQNTAHINMLEKAGSLREIVRDLHNVDRNHLEKGMSYVQNMGKLFSNIASLNPSNPEDAEKIMTGQLNEQFNQGLSTFAEDLLKNDGSSFISMMETLSELRSAREELLKEKTPYNGLLTKTPAATSQDREQQVQPNHSHWLDEDDHDHEHEHEHEHEHEHEIDDEDHEHYCCHHHQHHHLHGDEEYDEEDEEDDEEYEYGDDEEEEDEEDEEEGEDEELEEVVEDDVDEEILDDEEEFDAKNASDTESEISEEEKMQEIRRLFLIQVIKLFQERLKSAYKEKVSKDNTRKLFEELEAEEAAKREKEAKKLKQKEKAKERKRLQQLAKEEEKRKKEEEAKRIAEELHAKQEQLKLEQKKKKEEARLRREEEKKKKLEEIKRREAEHKRKVEEQIKHDEEQRRLKEERRKELEEKKRQKEEEKKQKELLKKQKEEEKERLRIEREKQLEKEAAVSKSIPQPSPKSKHVMKLAATFQSDIPSKQNQAQNGNQSHLPPQSRLRQDEENPQKTFANSVFSAKEYNSIYQPLPGSLSNNSSSAALSVGTQLSNFQALSHPQQQQQQYSNDIYLPSANLATATVQSPRSAPINLPNGTSAVGVSLANHLSLNNSSQGSPWTTNSTLSSNLGSTGLSHGQGQTVSGVNTNLPSSIGITSGGASQIFQPQPQPQLQPHQPQQQQQQQQQQQQQQQQNYFSPFNSFSEPLVGEPFQGIVHPTTNINNSTTASSSTGAIIPPMNPSGNIWNSNIGATATNAPASVSRNNSVWSNNAITPKPSEPSFLSTAGRSSSLWGTLANAPVASSSNNNSNATANYDNNNVRSLGSSSFAPANPGQHELEVIQTAIYNCFQMMQNSNQLEFNVAPLMAIFSNVRSLTNKTQLTVNQFLNCCVSNSLYQFDFVYDDFGTVTHLKVGLNGLNDHNSVNGFSKSSTTPPLLPISAMNSKILGYTQQQQQQQQPQPQPQSQQQYPLQHSHQQRLLQLFSNNQTILSQDVTSSAFATGTNTQGSSYGQVQLGAVSPAFARTSPPGLFPNDIPLLSTINELNSTPSTGTGTGTGSGVGAGTGAVFGSGIWN |
| 2352 | sp|Q6CBW0|NST1\_YARLI | MEKAIYSKDGKRVINLKSRETFKTENVSFEWGADDSKPKSKKKKKRKSKGQQVIIDSIDLDERSIVHGVMEAKMKAEKLARLKKSVNDTFPPSPASGLSPSMERQTIKYFWLSLTSEQRRELVQVEKEAVLNKMKRQQKNTCECDICGRKRVAIEQELETLYADYYKELDALAESKDLPLLPLPSMGFFQADDVLRGGHQDGNTTEELSEATNRLSIAPATTATTRPLPQNLGKEIDEEGDTEEDEPYGFEEGEDVQSLDVSSVADDLLTNDGKKFIEMMERLAEKRAGRIEEIRDGEDEEPVVVEDDNDDEEYENDSDYSDYSSEYSQTGESLTADQRMEEGRRMFQIFAARMFEQRVLHAYKQSVAAQVKAELQQMEEEKKTLDLEKEARDQQRRERKKEKKRAQKAIKEEEKRKAAAEREEREKREAEEAERLRLEAERKQQEKEREKAARKAASEAKQKARQEEQARLAREKEEKRLARIREMEERMRLAKEKEEREKEELRARQQQEEDERREKERLEEERIENERLEAERIENERLEKEREQQRLEEEKERQRIKEEREKQKLEEEREKRASMSIPLSKPLPGKTQIPASQPGTSLGGLQQPVPQAAPVAPVAMMPQSPSPQLPPGLTQHVAQSQILLDRLTPDPTSRMTPERHTPSPGSTTSNAKTLLDSLLRPAQGPSTPPPGPGTPRSSISHVAPVGAIGTIGSPGQVNQQPLHVHPGHMNHLSQGPVTPGQVNHPVGNIGHVGNVGTVGSIGLVNPPEQPISQPISPPSTTLPISQHRFDPWNSSYSGIASSSTPGNRLWGSSGEVPGNVIRQAALDAYEELHKNGSIDCNGFVNSRALQNTAQKYSSTGQGFGVSELFKACQGSFDIVGGLMKPRGGL |
| 2353 | sp|P50701|OS13\_SOLCO | MAYLRSSFVFFLLAFVTYTYAATIEVRNNCPYTVWAASTPIGGGRRLDRGQTWVINAPRGTKMARIWGRTNCNFDGAGRGSCQTGDCGGVLQCTGWGKPPNTLAEYALDQFSNLDFWDISLVDGFNIPMTFAPTNPSGGKCHAIHCTANINGECPGSLRVPGGCNNPCTTFGGQQYCCTQGPCGPTDLSRFFKQRCPDAYSYPQDDPTSTFTCPSGSTNYRVVFCPNGVTSPNFPLEMPASDEEAK |
| 2354 | sp|B4F6Q9|OXR1\_XENLA | MDYLTDVTGRSSRVLRGTVNRLWYGHRQVRFQDCLQDVQRENMARPPQALRSDTGQRKTLEKKDGRRMSFQRPKGTMEYTVESRDSLNSIALKFDTTPNELVQLNKLFSRAVVPGQLLYVPDPDYISSVESSPSLSPISLLSPTSSEAEFEKRTDTERMPHKESTSSPAYSTTRQSRVVSSTSEEEEAFTEKFLKINCKYITDGKGIVTGVLLVTPNNIMFDPHKNDLLVQENGCEEYGIMCPMEEVTSAAMHKEIVNSKLKDSIPVDVDQLSCMREFCHFKKISPGNLHDLDSKMWDAGNDSASTAPRSTEESLSEDVFTESELSPIREEHLSSDELRQDKSSGTSSESVQTINQNISECSVNISDCADASDDVKGSLEPSGNDSGIVSSINDLERSESSMNVGDGLDKDISESSIVLTEANEGQAESKGSKNNCNDGNLADNQTGDQNHSREAAVVGNHRHEALQEKTLKQSFGDSETEAEELRKFWKDLTMQQAKQQREDMQHTTQKEIKGKMPTAETHIEGVCSSVAKEKRRHRTHRYLCLRVGKPMRKTFVSQASASMQQYAQRDKLEYWFAVPHERSDHLYSFFIQWSPDLYAEELGESAREPGFVVVKKNEEGESSDRSTNDSASRLWEVVSVAEYHRRIDALNTEELRTLCRRLKITTREDVNSKQATNIKHDQEPESFRPNLSDPSSLLQTEQIEKLTKHLPPRTIGYPWTLVYSTAKHGMSLKTLYRLMLGLDTPVLLVIKDSDSQIFGALASEPFKVSDCFYGTGETFLFTFCPDFEVFKWTGDNMFFIKGDMDSLAFGGGGGEFALWLDGDSYHGRSHTCKTFGNSILSKKEDFIVQDIEIWAFE |
| 2355 | sp|Q6BLZ8|OCA1\_DEBHA | MSESQSEIEHNNNNSKLTKISQPPTVRIIPPLNFCPVEKQLYRSGQPSIINQSFLQDLNLKTILWLASEEPQEDFLDYCSMNNIAVEFVGLMNEYSYQNVNPWDALSEDTIKKALELICNKENYPLLVCCGMGRHRTGTVIGCLRRLQGWNLASVSEEYRRFTGSRGGRIMVELLIESFDINSVQIDPTKMPGWLT |
| 2356 | sp|Q08451|PIP1\_SOLLC | MAENKEEDVKLGANKFRETQPLGTAAQTDKDYKEPPPAPLFEPGELSSWSFYRAGIAEFMATFLFLYITILTVMGLKRSDSLCSSVGIQGVAWAFGGMIFALVYCTAGISGGHINPAVTFGLFLARKLSLTRAVFYMVMQCLGAICGAGVVKGFMVGPYQRLGGGANVVNPGYTKGDGLGAEIIGTFVLVYTVFSATDAKRNARDSHVPILAPLPIGFAVFLVHLATIPITGTGINPARSLGAAIIYNDEHAWNDHWIFWVGPMIGAALAAIYHQIIIRAMPFHRS |
| 2357 | sp|A6ZVF4|POG1\_YEAS7 | MKQEPHRQSEEKEKPKGPMAVEREHHTSLSSGTTMTASTGDESTNSRPVESSQTEKSLSLRIRILKQLGFDDIQELNACDTGLVEQFLNVRLINDTKELEKIRESNLAKLNQIIDKCMESDKISDSTLNKILDMSMNRDTNNDNNNHLTIPSPITTKKRKINASELASPRGHRRYRSDIPTVSEVETGVGYPQIHQQPGAYTLPMPANQWMSNPYMQPPQPQVQQIMPQYLYPPGMGPQAQLPTMSSNSESQTPVMSSQFLSLNQHGLYQQNIGAHPVMSMGPQANIYGQQHQPQPGQERDQSRKSFSHRRSQSANISMANFRSPMRNPQPASSQRPVNFLIHTPKHPPPT |
| 2358 | sp|P17564|PR15A\_MOUSE | MAPSPRPQHVLHWRDAHNFYLLSPLMGLLSRAWSRLRGPEVPEAWLAKTVTGADQIEAAALLTPTPVSGNLLPHGETEESGSPEQSQAAQRLCLVEAESSPPETWGLSNVDEYNAKPGQDDLREKEMERTAGKATLQPAGLQGADKRLGEVVAREEGVAEPAYPTSQLEGGPAENEEDGETVKTYQASAASIAPGYKPSTPVPFLGEAEHQATEEKGTENKADPSNSPSSGSHSRAWEYYSREKPKQEGEAKVEAHRAGQGHPCRNAEAEEGGPETTFVCTGNAFLKAWVYRPGEDTEEEDNSDSDSAEEDTAQTGATPHTSAFLKAWVYRPGEDTEEEDSDSDSAEEDTAQTGATPHTSAFLKAWVYRPGEDTEEENSDLDSAEEDTAQTGATPHTSAFLKAWVYRPGEDTEEENSDLDSAEEDTAQTGATPHTSPFLKAWVYRPGEDTEDDTEEEEDSENVAPGDSETADSSQSPCLQPQRCLPGEKTKGRGEEPPLFQVAFYLPGEKPESPWAAPKLPLRLQRRLRLFKAPTRDQDPEIPLKARKVHFAEKVTVHFLAVWAGPAQAARRGPWEQFARDRSRFARRIAQAEEKLGPYLTPDSRARAWARLRNPSLPQSEPRSSSEATPLTQDVTTPSPLPSETPSPSLYLGGRRG |
| 2359 | sp|P9WQB6|AHPC\_MYCTO | MPLLTIGDQFPAYQLTALIGGDLSKVDAKQPGDYFTTITSDEHPGKWRVVFFWPKDFTFVCPTEIAAFSKLNDEFEDRDAQILGVSIDSEFAHFQWRAQHNDLKTLPFPMLSDIKRELSQAAGVLNADGVADRVTFIVDPNNEIQFVSATAGSVGRNVDEVLRVLDALQSDELCACNWRKGDPTLDAGELLKASA |
| 2360 | sp|G5CTG4|AQP7\_MILTA | MAHNEKDPSSVEPIKRKRFSNEYVRLFLAEFLGTFILIVFGCGTVAVTILSKHQSQDFFSVNVGFFLGIAFGVFIAGGVSGGHLNPAVTLAFAVINKCKWRKVPVYMAAQYLGAWVGSAILTAIYYDALHNHDQGNRTIETAGIYASYPQEFLTWQGGLADQIFATLLLMMGILALTDERNMVGPTGRAYVPLLVGLLVLAIGLAFGFNCGYPINPARDFGPRLFTAMAGWGTQVFSEPRGTYNWWWIPIIGPHVGAIIGALAYNFFIGYHWPKERDDVQLQSPSSPIVIVKNDAYQPLRPSRSVYSEELRITTS |
| 2361 | sp|Q8WN67|ANGI\_PONPY | MVMGLGVLLLVFMLGLGLTPPTLAQDNSRYTDFLAQHYDPKPQGRDDRYCESIMRRRGLTSPCKGINTFIHGSKRSIKAICENKNGNPHRENLRISKSSFQVTTCKLHGGSPWPPCHYRATADFRNIVVACENGLPVHLDQSIFRRL |
| 2362 | sp|B9MDJ6|GRPE\_ACIET | MSENQNPSPSPEEIEAAMSANAADELNRLQGELAELKAKSADLADQFLRAKAEAENARRRAEDEVAKARKFGIESFAESLLPVCDSLDAALAIENATAEQLREGSDATLRQLMSALERNKVVIVNPEAGTKFDPHQHQAISMVPADQEANTVVSVLQKGYLISDRVLRPALVTVAAPK |
| 2363 | sp|Q818E8|GRPE\_BACCR | MEERNEQVVEEVKEAQVEEAVTPENSEETVEEKSEAALLQEKVDELQAKLTETEGRTLRLQADFENYKRRVQMDKQAAEKYRAQSLVSDILPALDNFERAMQVEATDEQTKSLLQGMEMVHRQLLEALTKEGVEVIEAVGKQFDPNEHQAIMQVEDSEFESNAVVEEFQKGYKLKDRVIRPSMVKVNQ |
| 2364 | sp|B7UH62|GRPE\_ECO27 | MSSKEQKTPEGQAPEEIIMDQHEEIEAVEPEASAEQVDPRDEKIANLEAQLAEAQTRERDGILRVKAEMENLRRRTELDIEKAHKFALEKFINELLPVIDSLDRALEVADKANPDMSAMVEGIELTLKSMLDVVRKFGVEVIAETNVPLDPNVHQAIAMVESDDVAPGNVLGIMQKGYTLNGRTIRAAMVTVAKAKA |
| 2365 | sp|A6QHC4|GRPE\_STAAE | MTNKDESVEKNTESTVEETNVKQNIDDSVEQAEESKGHLQDEAIEETSDENVIEEIDPKDQKINELQQLADENEEKYLRLYAEFENYKRRIQKENEINKTYQAQRVLTDILPAIDNIERALQIEGDDETFKSLQKGVQMVHESLINALKDNGLEVIKTEGEAFDPNIHQAVVQDDNPDFESGEITQELQKGYKLKDRVLRPSMVKVNQ |
| 2366 | sp|Q90474|H90A1\_DANRE | MPEKSAQPVMEEEVETFAFQAEIAQLMSLIINTFYSNKEIFLRELISNSSDALDKIRYESLTDPSKLDSCKDLKIELIPDQKERTLTIIDTGIGMTKADLINNLGTIAKSGTKAFMEALQAGADISMIGQFGVGFYSAYLVAEKVTVITKHNDDEQYIWESAAGGSFTVKPDFGESIGRGTKVILHLKEDQSEYVEEKRIKEVVKKHSQFIGYPITLYIEKQREKEVDLEEGEKQEEEEVAAGEDKDKPKIEDLGADEDEDSKDGKNKRKKKVKEKYIDAQELNKTKPIWTRNPDDITNEEYGEFYKSLSNDWEDHLAVKHFSVEGQLEFRALLFVPRRAAFDLFENKKKRNNIKLYVRRVFIMDNCEELIPEYLNFIKGVVDSEDLPLNISREMLQQSKILKVIRKNLVKKCLDLFTELAEDKDNYKKYYEQFSKNIKLGIHEDSQNRKKLSDLLRYYTSASGDEMVSLKDYVSRMKDTQKHIYYITGETKDQVANSAFVERLRKAGLEVIYMIEPIDEYCVQQLKEYDGKNLVSVTKEGLELPEDEEEKKKQDELKAKYENLCKIMKDILDKKIEKVTVSNRLVSSPCCIVTSTYGWTANMERIMKSQALRDNSTMGYMTAKKHLEINPAHPIVETLREKAEADKNDKAVKDLVILLFETALLSSGFTLDDPQTHANRIYRMIKLGLGIDDDDSVVEEISQPAEEDMPVLEGDDDTSRMEEVD |
| 2367 | sp|Q3ANN0|GRPE\_SYNSC | MSGDASTPEQDQNVVSGAVPATRESSPDAPEATSEQASAAVDPADRMQQLEQELSALKQEHDTLNSQYMRIAADFDNFRKRQSRDQDDMRKQLVCSTLTEILPVVDNFERARQQLNPEGEEAQALHRSYQGLYKQLVEVLKQQGVARMDVVGQEFDPNLHEAVLREESSEFAEDVVSEELQRGYHRDGRVLRHAMVKVSMGPGPSDPGSAPAEAAAAPDQTAEEA |
| 2368 | sp|Q87BS7|GRPE\_XYLFT | MNQDHPECDSEELTQNSPETDPLKVEVETLRGEIASIKADVLRERAELENQRKRLIRDVEQARKFANEKLLGELLPVFDSLDAGLTASGSEPSPLRDGLELTYKQLLKVAIDNGLMLLDPVGQLFNPEHHQAISQTEVTDVEPGHVIQVFQKGYLLNERLLRPALVVVAKQD |
| 2369 | sp|A1ANV1|GRPE\_PELPD | MKKHVTEEQKTSAAPEAEQASPESSAAEAATPEERISRLEEQLAAKEAECRENWDRFVRERADLENFRKRSNREKEELLNYGTKSLLEEILPVVDNLERALSHANENGSTGLTEGVQMIHGLLLNAMKKFGVTPLETSGAPFDPSFHQAMTQIPTDEHPPNTVVEEFQKGYLLKERLLRPAMVSVATAPK |
| 2370 | sp|B5EC43|GRPE\_GEOBB | MDKKKHDSHQHEKKADASQEKVEVAQPLSDADRIKELEEALAAKGLESAANWDKYLRERADLENYRKRVQKEKEEILKYGKEEVIMEILPALDNLERAIDHANEESAIVEGVRLTLSMLLSALKKFGVTPVETPQGTPFNPEFHQAMGQVESADQEPNTIVAVFQKGYLLNERLLRPAMVTVAVKPAA |
| 2371 | sp|Q7DDM9|GRPE\_NEIMB | MSEQTQQQNSEEAVENVEAVETVETVGNADGVQEQAAAEPAYEDLQARIAELEAQLKDEQLRALANEQNLRRRHQQEIADTHKFAGQKFAVEMLPVKDYLEMALLDQSGNFDALKMGVQMTLNELQKAFDATQIKEINPKAGDKLDPNIHQAMQAVASEQEPNTVVGVMKKGYTLSDRVLRPAMVTVAQKEA |
| 2372 | sp|B8EAU9|GRPE\_SHEB2 | MSNESIKAEQDLIQEGVESEVSTAEASLIDELTQANFRIEELEQLLAEALAKVEEQKDSVIRAAAEVDNIRRRAAMDVEKANKFALEKFANELLPVLDNMERALMGTNPEDEATKSIYQGVELTQKSLLTAVAKFGVKQIDPQGQSFNPDQHQAIGMQPSAEFPANTVMLVMQKGYELNSRLLRPAMVMVSQGGPNQESATIDIEA |
| 2373 | sp|Q0AIY2|GRPE\_NITEC | MQEPHNQEPIEEQKLSEMEDTLEKQHSGASTENTERAEEGVVIPDLEQQLKEAEIRAAEHHDAWLRAKAETENIRKRAQTDIANAHKYAIDNFATQLLAVMDSLDAALAVENSTIESLKDGVELTRKQLAAVFEKFNIHTINPQGEKFDPHQHEAMCTVESDIPPNTVTQVMQKGYVLHERVIRPAMVAVSKAKST |
| 2374 | sp|Q8H0Z4|GT121\_ARATH | MVVANDLSSKILPRVLIVSRRTLRKNKYVDFVGEYHLDLIVSSGAVPVIVPRVNGIHSMLQSFEPIHGVLLCEGEDVDPSLYADDELSDLSPEDMEEIKKAHAEDMTIDREKDSIELTLARLCLERNIPFLGICRGSQILNVAAGGTLYQDIDKELGTTMTTTNHIDYDNYDGHRHEARIVEETPLHKLFEEMEIMVNSYHHQGVKRLAQRFVPMAYAPDGLIEGFYDPNRYDPKEGQFLMGLQFHPERMRLPGSDEFDYPGCALVYQEFVKAVIAFQKKQVNATQVEMKRKTTTLVKSFSQAEFLEANTVLSKQQENRLKQMGATVRNSCVYMKRMKMKEEQERAMDKLSAERLSDMLSFHHMMARLCSNAIKRKLLEPEHTDRTIESSFFLNY |
| 2375 | sp|Q58CU3|HBAP1\_BOVIN | MAARPGAITNADSASGGGEEEGKHVKPFTPEKAKEIIMCLQQPAVFYNMVFDWPAQHWTAKHLSEVLHGKQIRFRMGTKSTDTAPQFETACNYVEATLEEFLSWNSDQSSISGAFRDYDHSKFWAYADYKYFVSLFEDKTDIFQDVIWSDFGFPGRNGQESTLWIGSLGAHTPCHLDTYGCNLVFQVQGRKRWHLFPPEDTPFLYPTRIPYEESSVFSKINVVNPDLKRFPQFRKARRHMVTLSPGQVLFVPRHWWHYVESIDPVTVSINSWIELEEDHQTRVEEAITRMLVCALKTAENPHNTRAWLNPTELEETSHEINCHYLNGAISAFFNHYGTSEVVETQALRTNREYTIKEELNMHSHVGVEQAGGHNLSSETVKQEAASPFGLDLVPVTPSSEEPSSERGGIFENDGEDFVSKNGKSFGKRQRMMSESENAVVEQIASDRTVAVSQTFVSTDDLLDCLVNPQVTRIVAQLLIQGRST |
| 2376 | sp|Q74H60|GRPE\_GEOSL | MDKKKHGTVQSADETIAAAGFAGEAAQGKGEDVQSVAAEERIRQLETELAAKEAEAAANWDKFVRERADLENYRRRTQKEKEELLKYGNESLLQDILPVVDSMERALGHADSESLSAVIEGIRMTHGMLLGTLKKFGVVAVEAERGTVFDPAYHQAMCQVEVSELPPNTVVEVFQRGYLLNERLLRPAMVSVATVPKDAA |
| 2377 | sp|B8IJD7|GRPE\_METNO | MTPNDTENAARPLPEGAVDPAQDAAGAPDTLAPAAQADAVAALEAEKLDLKNKLLRALADMENLRRRTEREVADARTYAVTNFARDMLNVADNVRRALDSVPVEDRAAADGALKALLDGIELTGRDLAKTLERHGVRAVEPQGQRFDPNLHQAMFEVPNPDVANGTVVQVVQTGYVIGDRVLRPALVGVSKGGPKAAEASKPAGEAPKPAGEAPKPAGDGQKPAEA |
| 2378 | sp|A6QEK3|HCHA\_STAAE | MSQDVNELSKQPTPDKAEDNAFFPSPYSLSQYTAPKTDFDGVEHKGAYKDGKWKVLMIAAEERYVLLENGKMFSTGNHPVEMLLPLHHLMEAGFDVDVATLSGYPVKLELWAMPTEDEAVISTYNKLKEKLKQPKKLADVIKNELGPDSDYLSVFIPGGHAAVVGISESEDVQQTLDWALDNDRFIVTLCHGPAALLSAGINREKSPLEGYSVCVFPDSLDEGANIEIGYLPGRLKWLVADLLTKQGLKVVNDDMTGRTLKDRKLLTGDSPLASNELGKLAVNEMLNAIQNK |
| 2379 | sp|Q9Y5L2|HLPDA\_HUMAN | MKHVLNLYLLGVVLTLLSIFVRVMESLEGLLESPSPGTSWTTRSQLANTEPTKGLPDHPSRSM |
| 2380 | sp|A5I2R9|HFQ\_CLOBH | MTKVVNNLQDIFLNGARKNRIPVTIYLTNGFQLKGFVKGFDNFTVILDSDGKQMMIYKHAISTINPAKPLLFVQNPNGDDYKDKE |
| 2381 | sp|B1YMH1|HFQ\_EXIS2 | MKATYNIQDYFLNQLRKDSVPTTVFLISGYQLRGLIKSFDNFTVILESEGKQQLIYKHAISTFAPARNVTLYEQETETEEVTR |
| 2382 | sp|C1DLQ2|HFQ\_AZOVD | MSKGHSLQDPYLNTLRKERVPVSIYLVNGIKLQGQIESFDQFVILLKNTVSQMVYKHAISTVVPSRPVRLPTASEGEQPEPGNA |
| 2383 | sp|Q6G3L8|HFQ\_BARHE | MVERSQHLQDVFLNTVRKQKISLTIFLVNGVKLTGIVTSFDNFCVLLRRDGHAQLVYKHAISTIMPGQPVQMFEGESSE |
| 2384 | sp|P27880|HSP12\_MEDSA | MSLIPSFFGGRRSNVFDPFSLDVWDPFKDFPFNNSALSASFPRENSAFVSTRVDWKETPEAHVFKADLPGMKKEEVKVEIEDDRVLQISGERSVEKEDKNDQWHRLERSSGKFMRRFRLPENAKMDQVKAAMENGVLTVTVPKEEVKKPEVKTIDISG |
| 2385 | sp|B7V3U0|HSLO\_PSEA8 | MSHSDQSQRFLFDDTDVRGEMVDLERSYSEVLAKHPYPEPVAQLLGEMLAAASLLCGTLKFDGLLVLQARSSGAVPLLMVECSSDRQVRGLARYSAESIGADAGMQELMPEGVLTLTVDPVKGQRYQGIVALEGVNLAECLSNYFASSEQLPTRFWLNANGRRARGLLLQQLPADRLKDPEAREASWQHLTTLADTLTAEELLALDNETVLHRLYHEETVRLFEPQPLVFHCSCSRERSANALVSLGQADCERLLEEEEGSISIDCQFCNQRYLFDASDVAQLFAGAGSQGPSETRH |
| 2386 | sp|A4VXU6|HSLO\_STRSY | MDKIIKTLSKSGHFRAFVLDSTETVKTAQEKHDTMASSTVALGRTLIANQILAVNEKGDTKITLKILASGAVGAIISVANTKGQVKGYIQNPDLDYKRTATGEVIVGPLVGNGQFLVITDYGTGHPYNSMTPLISGEIGEDFAYFLTDSQQTPSAVGLNVLLDEEDKVKVAGGFLLQVLPGATEVEIARFEKRIQEMPAISSLLASENHIEALLSAIYGDDDFKRLSEEEIGFVCDCSKDRFLDALASLPKADLQEMKEEDKGVDITCQFCQTHYHFDENDLEELING |
| 2387 | sp|Q3ARP2|HTPG\_CHLCH | MSSTENNGTAVPLQEFEYKAEMKQLLDLIIHSLYTHPEIYLRELISNASDALSKARFNALTDQDMLDKDAELAIRLTLNAEEKSVVIEDSGIGMTEEELIANLGTVAKSGTLGFMQSLKEQQQQLDGNLIGQFGVGFYSVFMVTEEVTVETRSFHSNAQGYRWRSSGQGTYTIEQIDKATRGTRISFKLKEEHQEFAEEYRVEQIIKKYSNFVDFPIYLGERQLNSMTALWQRPKSELKDEEVNEFYKFVASDFNDPLDYLSISVEGMVSFKALLFLPKEAPPELMYRQSELENRGPQLYVKKVLIQNECRDLLPEYLRFIAGVVDTEDLSLNVSREMVQSSPVMAKIRQILTGKILGWFEMLAKEQPEKFKTFYKAFGPIIKIGLNTDFTNREKLIELLRFESTKTEEGEFVTLREYVERMGSEQKEIYYHSGNNRAQLLAHPNIEYFREHGIEVLLLSDPVDMFVIPSIHEFDKKPLKSIEKADCDFSQQSSNKAEPVAPNLLNPVLQAFKEALSNEVEDVVESRRLVSSPVTLVSGKDAIDSQLERMMKMMNTPMPPAKRILEVNSSHPIVRNIAGMIMADANNPLIKTVARQLYEGALFLEGSLEDATSYVTRMNELIEAATLTR |
| 2388 | sp|Q5FHC4|HTPG\_EHRRG | MQGTVNSERLKFDAEVGKVLKLVIHSLYTNKDIFLRELISNASDACDKLRYQSLSNQDLMDAGSELKIVISVDKDKNRLYISDNGIGMNREDLINNLGTIAHSGTQKFLDAINSGASSQQGVVELIGKFGVGFYSAFMVASEVIVESCKAGESVGYQWKSSGDGEFVISQLESDQVSRGTRITLALKPEECEFVDKFRIEHIVTTYSYHINYPVYFLNDKGEEERLNSEAAIWTKAKDEISAEEHQNFFRTVAHVGGEPWMILHNKNEGVIEYTNLLYIPSIKPFDLFHPDRKCSVKLYVNKVFITEDNVQIIPQYLRFLKGIIDSSDLPLNISRETLQNNKIIEKIKRSLVKRVLSELKKKAESNIEDYTKFWDNFGSVLKEGLCESMNTEFREELISVCRFYSTHSNDSLISLEDYIERMKPEQNNIYYLTGNDLDSIKKSPQLEGFVSRGVEVLLLVDPVDDFWTNVVTDYQKVPLRSVIRADEDLEKFSDVEKGDESKDSQNEDTQSKEKVDKFIGYAAQVLNNLVSNVRVSKKLTDSPVCLAVADGSMDIRMERFLREQKQLNYKSTKILEINSKHPIISKMIDQYTENGESAMLCNMLHLLLGQACILEGEELQNVSDFAERMNSVLSQIN |
| 2389 | sp|Q6FF82|HTPG\_ACIAD | MTEQTATQNYSFQAEVAQLLHLVTHSLYSNPEIFLRELISNASDACDKLRFEGINHPEYYEDDANLRVRVSLDKENKTITISDNGIGLSQQEAIDNLGTIAKSGTKDFMSKLTGDQKSDAQLIGQFGVGFYSGFIVADKITVESRRAGLPANDGVRWISGGTGDFEVQQITKDSRGTSIILHLRDDALDYLDAWKVKQIINKYSDHISLPIEMQKEVWQEEEVAEGEEPKGGQYVKTDEWEVINSASALWTRSKNEISEEQYIEFYKNLTHDFDAPLAWSHNRVEGNTEYTQLLYIPAKASSDIFTREAKAGIKLYVKRVFIMDDADNLIPNYLRFVKGVIDSADLPLNVSRELLQESRDVKTIREGNTRRVLTLLDGLAKSEDEKDQEKFKTFYQEFGSVLKEGLGEDFTNRERILKLLRYATSNQDEISTSFADYKARMKEGQKAIYYVSADSLAAAKNSPQLELFKKKGIEVLLMSERVDEWAMNFVHEFDGTPLQNVSKGAVDLGDLQDAEEKKALEQAAEQFKPVVDKLTDALKDKTKEVRVTTRLVDSPACLVTSDGELSPQLIRMLKQAGQAVPESKPILEINPEHPLVQKLEGSAQFDDLANVIFDQAVIAEGGLPEDPAAYVKRINSLLLK |
| 2390 | sp|A2S4I0|HTPG\_BURM9 | MTQQTMSFQAEVKQLLHLMIHSLYSNKEIFLRELVSNASDAADKLRFEALENNALYESDPNLRIRLSFDKAARTITIDDNGIGMSRDEAIANLGTIARSGTKEFFSKLSGDQQKDAALIGQFGVGFYSGFIVADRITVETRRAGLPASEGVRWESAGEGDFQVDTIERAARGTTITLHLREGEDELLSSYRLKSIVQKYSDHVALPILMKKEEWDQEKGEMVEKDEDETINQASALWTRAKSEVTDEQYKQFYQHVAHDHQDPLAWTHNRVEGRSEYTQLLFVPSHAPFDLWNRDYRGGLKLYVKRVFIMDDAEQLLPQYLRFIKGVVDSSDLPLNVSREILQESRDVKAIREGVTKRALSMLEELANAEDDAGKEKYKTFWSAFGQVLKEGVGEDHANRERVAKLLRFASTHGDTDAQDVALADYVARMKPEQTKIYYVTADTWQAAKNSPHLEVFRKKGVEVLLLTDRVDEWMLSFLHEFDGKPLASVARGDLDLGALNDDEKKAQEETGEAMKPVVDKMKETLGEKVKDVRVTFRLTDSPSCLVADDNDMSGYLQRMLKAAGQSAPSFQPILEINPEHPLVKALKADGADFGDWCHLLFDQALLAEGGALEDPASFVKRTNALLLSRAA |
| 2391 | sp|Q3Z2G8|HTPX\_SHISS | MMRIALFLLTNLAVMVVFGLVLSLTGIQSSSVQGLMIMALLFGFGGSFVSLLMSKWMALRSVGGEVIEQPRNERERWLVNTVATQARQAGIAMPQVAIYHAPDINAFATGARRDASLVAVSTGLLQNMSPDEAEAVIAHEISHIANGDMVTMTLIQGVVNTFVIFISRILAQLAAGFMGGNRDEGEESNGNPLIYFAVATVLELVFGILASIITMWFSRHREFHADAGSAKLVGREKMIAALQRLKTSYEPQEATSMMAFCINGKSKSLSELFMTHPPLDKRIEALRTGEYLK |
| 2392 | sp|A5UFQ9|HTPG\_HAEIG | MSQNQETRGFQSEVKQLLQLMIHSLYSNKEIFLRELISNASDAADKLRFKALSNPALYEGDGDLRVRVSFDADKGIITISDNGIGMTREQVIDHLGTIAKSGTKEFLTALGQDQAKNSQLIGQFGVGFYSAFIVADKVTVKTRAAGEEADKAVLWESAGEGEYSVADIEKKSRGTDVILHLREDEKEFLNEWRLREIIGKYSDHIGLPVEMLTKEYDDEGKECGEKWEKINKSDALWTRSKNDVSDEEYKAFYKHLSHDFSDPVTWAHNKVEGNQAYTSLLYVPAKAPWDLFNREHKHGLKLYVQRVFIMDDAEQFMPNYLRFMRGLIDSNDLPLNVSREILQDNKITAALRKALTKRSLQMLEKLAKDDAEKYLQFWKEFGLVLKEGPAEDFANKETIAKLLRFASTHNDGCEQTVSLEDYILRMKEGQKAIYYITADSYVAAKNSPHLELFNKKGIEVLLLSDRIDEWMLSYLTEFDGKQLQSITKADLDLGDLADKESETQKQRDEAFGSFIERVKNLLGERVKTVRLTHNLTDTPAVVSTDNDQMTTQMAKLFAAAGQPVPEVKYTFELNPEHHLVKKVADIADEIEFADWVELLLEQAMLAERGSLENPAAFIKRINKLLG |
| 2393 | sp|E1WNR6|HTPG\_BACF6 | MQKGNIGVTTENIFPIIKKFLYSDHEIFLRELVSNAVDATQKLNTLASISEFKGELGDLTVHVSLGKDTITISDRGIGLTAEEIDKYINQIAFSGANDFLEKYKNDANAIIGHFGLGFYSAFMVSKKVEIITKSYKEGAQAVKWTCDGSPEFTLEEVEKADRGTDIVLYIDDDCKEFLEESRISALLKKYCSFLPVPIAFGKKKEWKDGKQVETAEDNVINDTIPLWTKKPSELSDEDYKKFYRELYPMSDEPLFWIHLNVDYPFHLTGILYFPKVKSNIDLNKNKIQLYCNQVYVTDSVEGIVPDFLTLLHGVLDSPDIPLNVSRSYLQSDSNVKKISTYISKKVSDRLQSIFKNDRAQFEEKWNDLKIFINYGMLTQEDFYDKAQKFALFTDTDGKHYTFEEYQTLIKDNQTDKDKNLIYLYANNKDEQFAYIEAAKNKGYNVLLMDGQLDVAMVSMLEQKLEKSRFTRVDSDVVDNLIVKEDKKSDVLEASKQEALSAAFKSQLPKMEKVEFNVMIQALGENGSPVMITQSEYMRRMKEMANIQAGMSFYGEMPDMFNLVLNSDHKLVKEVLADEEKECSAAIAPIQTELEDVTKRRDALKKKQEGKKDEDIPTAEKDELNDLDKKWDELKQQKDSIFAGYAGKNKVVRQLIDLALLQNNMLKGEALNNFVKRSIELI |
| 2394 | sp|Q57NG5|HTPX\_SALCH | MMRIALFLLTNLAVMVVFGLVLSLTGIQSSSVQGLLIMALLFGFGGSFISLLMSKWMALKSVGGEVIEQPRNERERWLMNTVATQARQAGIAMPQVAIYHAPDINAFATGARRDASLVAVSTGLLQNMSPDEAEAVIAHEISHIANGDMVTMTLIQGVVNTFVIFISRIIAQIAAGFLGGNRDEGEGSNGNPLIYFAVATVLELVFGILASIITMWFSRYREFHADAGSAKLVGREKMIAALQRLKTSYEPQEATSMMAFCINGKSKSLSELFMTHPPLDKRIEALRSGEYLK |
| 2395 | sp|B1Z9Y8|HTPG\_METPB | MSETVERHEFGAEVGRLLDLVVHALYSDREIFLRELVANAADATDRRRFEALTNEALALPSDARVLIAPDKAARTLTISDSGIGMSKEDLAQNLGTIARSGTRAFSQALGEAKGSEGEDLRPSLIGQFGVGFYSAFMVADRVTVTSRRAGGEEAWTWASDGKGSYTLEPASREQAGTDIVLHLKEDADEYLESYRLDHVVRKWADNIAVPIAIRDAEGKEEAANRGTALWRKPKSEITEEQYKEFYRTVSHGFDEPWATLHWRAEGALEFTGLLFVPSMKPFMPVEDDRRSKVRLHVRRMFITDEAELLPNWLRFVHGVVDTDDLPLNVSREMLQSTPTLQKIRRAVTTRVINELSNRSKNTEKADDYQKFFENFGSVLKEGIYEDFERRAEIAPLLRFRSSTEGGWTSLPDYVSRMKPEQEAIYYLVADDVEALKNSAQLEGFRARGVEVLLLSDHVDAFWPEQLGKFEDKPLRSVTQGSADLAKLKPEGEAAEDAPALDRLVAALKLALEPDVSDVRVTDRLVDSAVVLAASGMGPDLQMQRLLRRAGRGFGGSAPILEINPRHALIRSLNDRAEAGEDLKAEAGTLLDLARVQDGDTPRDPVAFARAVAAALAGTVAKPAESA |
| 2396 | sp|Q61699|HS105\_MOUSE | MSVVGLDVGSQSCYIAVARAGGIETIANEFSDRCTPSVISFGSKNRTIGVAAKNQQITHANNTVSSFKRFHGRAFNDPFIQKEKENLSYDLVPMKNGGVGIKVMYMDEEHFFSVEQITAMLLTKLKETAENNLKKPVTDCVISVPSFFTDAERRSVLDAAQIVGLNCLRLMNDMTAVALNYGIYKQDLPNAEEKPRVVVFVDMGHSSFQVSACAFNKGKLKVLGTAFDPFLGGKNFDEKLVEHFCAEFKTKYKLDAKSKIRALLRLHQECEKLKKLMSSNSTDLPLNIECFMNDKDVSGKMNRSQFEELCAELLQKIEVPLHSLMAQTQLKAEDVSAIEIVGGATRIPAVKERIAKFFGKDVSTTLNADEAVARGCALQCAILSPAFKVREFSVTDAVPFPISLVWNHDSEETEGVHEVFSRNHAAPFSKVLTFLRRGPFELEAFYSDPQGVPYPEAKIGRFVVQNVSAQKDGEKSRVKVKVRVNTHGIFTISTASMVEKVPTEEEDGSSLEADMECPNQRPTESSDVDKNIQQDNSEAGTQPQVQTDGQQTSQSPPSPELTSEESKTPDADKANEKKVDQPPEAKKPKIKVVNVELPVEANLVWQLGRDLLNMYIETEGKMIMQDKLEKERNDAKNAVEECVYEFRDKLCGPYEKFICEQEHEKFLRLLTETEDWLYEEGEDQAKQAYIDKLEELMKMGTPVKVRFQEAEERPKVLEELGQRLQHYAKIAADFRGKDEKYNHIDESEMKKVEKSVNEVMEWMNNVMNAQAKRSLDQDPVVRTHEIRAKVKELNNVCEPVVTQPKPKIESPKLERTPNGPNIDKKEDLEGKNNLGAEAPHQNGECHPNEKGSVNMDLD |
| 2397 | sp|Q60446|HS105\_CRIGR | MSVVGLDVGSQSCYIAVARAGGIETIANEFSDRCTPSVISFGPKNRTIGVAAKNQQITHANNTVSSFKRFHGRAFSDPFIQKEKESLSYDLVPMKNGGVGIKVMYMDEEHLFSVEQITAMLLTKLKETAENNLKKPVTDCVISVPSFFTDAERRSVLDAAQIVGLNCLRLMNDMTAVALNYGIYKQDLPNADEKPQGSGVCGHGPSSFQVSACAFNKGKLKVLGTAFDPFLGGKNFDEKLVEHFCAEFKTKYKLDAKSKIRALLRLHQECEKLKKLMSSNSTDLPLNIECFMNDKDVSAKMNRSQFEELCAELLQKIEVPLHSLMEQTHLKTEDVSAIEIVGGATRIPAVKERIAKFFGKDVSTTLNADEAVARGCALQCAILSPAFKVREFSVTDAVPFPISLVWNHDSEETEGVHEVFSRNHAAPFSKVLTFLRRGPFELEAFYSDPQGVPYPEAKIGRFVVQNVSAQKDGEKSKVKVKVRVNTHGIFTISTASMVEKVPTEEDDGSSVEADMECPNQKPAESSDVDKNSQQDNSEAGTQPQVQTDGQQTSQSPPSPELPSEENKIPDADKANEKKVDQPPEAKKPKIKVVNVELPVEANLVWQLGRDLLNMYIETEGKMIMQDKLEKERNDAKNAVEECVYEFRDKLCGPYEKFICQQEHEKFLRLLTETEDWLYEEGEDQAKQAYIDKLEELMKMGNPVKVRFQEAEERPKVLEELGQRLQHYAKIAADFRSKDEKYNHIDESEMKKVEKSVNEVMEWMNNVMNAQAKRSLDQDPVVRTHEIRAKVKELNNVCEPVVNQPKPKIESPKLERTPNGPNLDKKEDLEGKDNFGAEAPHQNGECHPNEKGSVNMDLD |
| 2398 | sp|Q5R606|HS105\_PONAB | MSVVGLDVGSQSCYIAVARAGGIETIANEFSDRCTPSVISFGSKNRTIGVAAKNQQITHANNTVSNFKRFHGRAFNDPFIQKEKENLSYDLVPLKNGGVGIKVMYMGEEHLFSVEQITAMLLTKLKETAENSLKKPVTDCVISVPSFFTDAERRSVLDAAQIVGLNCLRLMNDMTAVALNYGIYKQDLPSLDEKPRIVVFVDMGHSAFQVSACAFNKGKLKVLGTAFDPFLGGKNFDEKLVEHFCAEFKTKYKLDAKSKIRALLRLYQECEKLKKLMSSNSTDLPLNIECFMNDKDVSGKMNRSQFEELCAELLQKIEVPLYSLLEQTHLKVEDVSAVEIVGGATRIPAVKERIAKFFGKDISTTLNADEAVARGCALQCAILSPAFKVREFSVTDAVPFPISLIWNHDSEDTEGVHEVFSRNHAAPFSKVLTFLRRGPFELEAFYSDPQGVPYPEAKIGRFVVQNVSAQKDGEKSRVKVKVRVNTHGIFTISTASMVEKVPTEENEMSSEADMECLNQRPPENPDTDKNVQQDNSEAGTQPQVQTDAQQTSQSPPSPELTSEENKIPDADKANEKKVDQPPEAKKPKIKVVNVELPIEANLVWQLGKDLLNMYIETEGKMIMQDKLEKERNDAKNAVEEYVYEFRDKLCGPYEKFICEQDHQNFLRLLTETEDWLYEEGEDQAKQAYVDKLEELMKIGTPVKVRFQEAEERPKMFEELGQRLQHYAKIAADFRNKDEKYNHIDESEMKKVEKSVNEVMEWMNNVMNAQAKESLDQDPVVRAQEIKTKIKELNNTCEPVVTQPKPKIESPKLERTPNGPNIDKKEEDLEDKNNFGAEPPHQNGECYPNEKNSVNMDLD |
| 2399 | sp|P15489|HS60\_GIAIN | MPIYFLVLKGTGHVQALAFPKSVSDCLGRVTDTEPMLQQSIEACDRVSTETQQLLDILKQQQDDSVLEIQDTLTIAAQGLGPQQRLCAALALLHEREPSIVQQYHDVVGSLSLPEMLKTSHVARSITFHSLLHYERLCTRLHYCHLQQSVHKQKPVRMPGKLRGRWWCQESEPQQVRFGQNVRKHVVSIGGVYAQERCMTTWSTYSVDICLINLSLTRDRPASVGGLQLQVYRISASHAEPSGKRVGHIRHRAGTRQQLQEELCTKKEKLAEMTVLTQEKLSEVIKLREITMASKAESVKLACLQKLVSPQTVSRVLSFSGISYNRLILFYVRQFIFGLAWSLSCQLPLAERHSLSNLVCRYYSDYLDQPSSEVSTKTLLTLALGMQAMLTTRTTYSLISWRLRTSIQTVSTGSVRWILCLSALPTQRLLAQILRNVPWSQRRTQFQIRPISMHHRPYGYQATVQHPPPQSSYEEDGRRPPTQPAHTSLLTYVCSINSEYWQLNDPENCELRSFFFLQSIESMSTPSSH |
| 2400 | sp|Q492P5|HSPQ\_BLOPB | MIASKFGIGQQVRHKLLGYLGVIIDIDPEYSLEKPTLDEITKNDTLRKSPWYHVVMEDEEGKPMHTYLAEVQLGYENILTHPEQTTLDELSESIRLQLQTPRLRN |
| 2401 | sp|P05812|HSP6A\_DROME | MSLIPFILDLAEELHDFNRSLAMDIDDSAGFGLYPLEATSQLPQLSRGLGRGNAMMWVPIKGQSAASQHRHHPYNRVAGAKTACCNKSLVELEKELGDKGTSGASGSTSGQPAASKSAYSVVNRNGFQVSMNVKQFAANELTVKTIDNCIVVEGQHDEKEDGHGVISRHFIRKYILPKGYDPNEVHSTLSSDGILTVKAPPPLPVVKGSLERQERIVDIQQISQQQKDKDAQPPKPSEVEQQAAASATTSTLNPTAPTPTPSLSLTLAESNGNGQEETEMEMPAVSPPISNEAAAAAAVAVEAPSTAGTTSSANNGVAEPESESMEVALAKNEETANVDEPTPNPVISIEEEQKAEDANANEVPVASNNGNGAVAAAEDVEMPLAKKPEISTEDSKEEQAEKVDKVEKVEEKGGEELAAVDAAILLAKNQGENGATAAKTEELAK |
| 2402 | sp|A6T5N6|HTPG\_KLEP7 | MKGQETRGFQSEVKQLLHLMIHSLYSNKEIFLRELISNASDAADKLRFRALSQPDLYEGDGELRVRVSFDKDNRTLTIADNGIGMNREEVIDHLGTIAKSGTKAFLESMGSDQAKDSQLIGQFGVGFYSAFIVADKVTVRTRAAGDKPENGVFWESAGEGEYTVADITKADRGTEITLHLREGEDDFLNDWRVRSIISKYSDHIALPVEIEKREEKDGETVISWEKINKAQALWTRSKSEVNDDEYKEFYKHIAHDYSDPLTWSHNRVEGKQEYTSLLYIPSQAPWDMWNRDHKHGLKLYVQRVFIMDDAEQFMPNYLRFVRGLIDSNDLPLNVSREILQDSSVTRNLRTALTKRALQMLDKLAKDDAEKYQTFWKQFGLVLKEGPAEDPSNQEAIAKLLRFATTHTDSSAQTVSLEEYVSRMKEGQEKIYYITADSYAAAKSSPHLELLRKKGIEVLLLSDRIDEWMMSYLTEFDGKAFQSVAKADESLDKLADEVDESTKEAEKALEPFVERVKNLLGDRVKEVRLTHRLTDTPAIVTTDADEMSTQMAKLFAAAGQAAPEVKYIFELNPAHQLVKRAADTQDDAQFGEWVELLLDQALLAERGTLEDPNQFIRRMNQLLAS |
| 2403 | sp|Q1CZI7|HTPG\_MYXXD | MTVENAPQRETHAFQAEINQLLSLVINSLYSHKEIFLRELVSNASDALDKLRFRAITEPELLADEPALELRLIPDEAKGTLTIEDTGIGMSHDELVKNLGTIAHSGSREFIEALAQKGQQKDMQLIGQFGVGFYSAYLVADRVEVVSRAAGQGQSAWRWTSEAKGSFTVEPAERAARGTSITLHLKEDQKEFLGEWRLRSLITQYSDYVGHPIKLQVSKTTGTGDEAKTETSLEVVNKASALWQRSKSEITDEQYQEFYKHLTHDWEAPLAWTHFKADGNTQFTGLLFVPKQPPFDLDAQQQRGVRLFVKRVFIMDRCEELVPQWLRFVRGVIDSDDLPLNVSRELLQDSQVVRAIRKHVVKKSVDLLEKLAKDKPDDYLTFWKAFGTVLKEGLATEAEQKDKLGGLLRYESSREEGLTSLADYVGRMKEGQEAIYYVYGESRKAVADSPHLEALKQRGFEVLYMTDPVDEWAAQGLREFQGKPLVSALQADLKLQSTDEQKKEQEQHAEGLKTLTSKMKDVLQESVREVRVSDRLTDSPVCLVVPEGGSPAYLERLLQQRGRGAGMPRVKRILEVNPKHPVIEHLKAVHDRDPAAAQVAEWIELLHDQALLTEGSTIADPNRFARRMTGLLTQVAALAAAPAPAQTPASATAS |
| 2404 | sp|Q5X5J7|HTPG\_LEGPA | MVSKQQTMGFQTEVKQMLHLVVHSLYSNKEIFLRELISNASDALDKLRFLALSNGSLFENDSDLKISIQINEKLQTITISDNGIGLSWEEAVENLGTIAKSGTKEFISQLTGEQAKDSQLIGQFGVGFYSAFIVADKVTVKSRRAGLQPEDGIVWESKGDGEFTIGYEKKLTRGTEITLHLKPENDEFLSDWRIRGIISKYSDHICWPILMKKLSEEGKESKEFETVNKATALWTLQKSEISEEEYKQLYKHISHDYMDPLTWSHNHVEGKHEYITLLYIPAHAPFDLWQHEAKHGLKLYVKRVFIMDEATQFLPRYLRFVKGIVDASDLPLNISREILQDNKQVESIRAACTKRVLSMLEKMATNDKETYQKFWNEFGLVLKEGPIEDFANKEAIAKLLRFSTTASGSEKQEVSLEEYVSRMKEGQDKIYYITASSYNAAKNSPHLEIFRKKGIEVLLLSDKVDEWLVGYMNEFAGKKLQSISKGKIELGDDETSEQIKEQEKTLEPLIKHIKSVLNDRVKDVLLTNRLTDSPACVVADEQDMGLEMQRILQAAGQQVPVSKPIFEINPDHALIKRLHDIQDDNQFELWVTMLFEQAVLAEGGQLDNPADFVNRVNRLLVSS |
| 2405 | sp|Q7N0P4|HTPG\_PHOLL | MKGQETRGFQSEVKQLLQLMIHSLYSNKEIFLRELISNASDAADKLRFRALSVPKLYENDGELRVRLSFDKEKRCITISDNGIGMTRDEVIDNLGTIAKSGTKAFLESIGSDQAKDSQLIGQFGVGFYSAFIVSDKVTVRTRAAGASIDQGVFWESAGEGDYTIADIEKETRGTEITLHLREGEDEFLNDWRLRSVISKYSDHIALPVEIETKNKSEEEGEEDTVTWEKINKAQALWTRGKSEITDEEYKEFYKHISHDFTDPLIWSHNRVEGKQEYTSMLYIPSQAPWDMWNREHKHGLKLYVQRVFIMDDAEQFMPNYLRFVRGLIDSNDLPLNVSREILQDNSITRNLRNALTKRALQMLDKLAKDDAEKYQQFWQQFGLVMKEGPAEDSTNKEAIAKLLRFASTHNDSSAQTVSLEEYVSRMTEGQDKIYYITADSYAAAKNSPHLELFRKKGIEVLLLSERIDEWMMGYLTDFDGKKFQSVSKADESLDKLADENKAEQEEIEKQLEPFVERVKTLLGDRVKEVKLTHRLTDTPAIVTTNVDEMSTQMAKLFAAAGQQVPDVKYNFELNPDHQLVKLAADISDEVQFADWIELLLDQALFAERGTLEDPNQFIRRMNQLLLSEKA |
| 2406 | sp|Q10P60|HS26P\_ORYSJ | MAAPFALVSRVSPAARLPIRAAWRRARPTVGLPSSGRARQLAVASAAQENRDNTAVDVHVNQDGGNQQGNAVQRRPRRSSALDGISPFGLVDPMSPMRTMRQMLDTMDRIFDDVALGFPATPRRSLATGEVRMPWDVMEDDKEVRMRFDMPGLSREEVKVMVEDDALVIRGEHKKEEGEGAEGSGDGWWKERSVSSYDMRLALPDECDKSKVRAELKNGVLLVTVPKTEVERKVIDVQVQ |
| 2407 | sp|Q05746|HSP70\_PLACB | MASGKASKPNLPESNIAIGIDLGTTYSCVGVWRNENVDIIANDQGNRTTPSYVAFTDTERLIGDAAKNQVARNPENTVFDAKRLIGRKFTESSVQSDMKHWPFTVKSGVDEKPMIEVSYQGEKKLFHPEEISSMVLQKMKENAEAFLGKSIKNAVITVPAYFNDSQRQATKDAGTIAGLNVMRIINEPTAAAIAYGLHKKGKGEKNILIFDLGGGTFDVSLLTIEDGIFEVKATAGDTHLGGEDFDNRLVNFCVEDFKRKNRGKDLSKNSRALRRLRTQCERAKRTLSSSTQATIEIDSLFEGIDYSVTVSRARFEELCIDYFRDTLIPVEKVLKDAMMDKKSVHEVVLVGGSTRIPKIQTLIKEFFNGKEACRSINPDEAVAYGAAVQAAILSGDQSNAVQDLLLLDVCSLSLGLETAGGVMTKLIERNTTIPAKKSQIFTTYADNQPGVLIQVYEGERALTKDNNLLGKFHLDGIPPAPRKVPQIEVTFDIDANGILNVTAVEKSTGKQNHITITNDKGRLSPEEIDRMVNDAEKYKAEDEENKKRIEARNSLENYCYGVKSSLEDQKIKEKLQPSEIETCMKSITTILEWLEKNQLASKEEYESKQKEAESVCAPIMSKIYQDVGGAAGGMPGGMPGGMPGGMPGGMPGGGMPGGMNFPGGMPGGGMPGGAPAGSGPTVEEVD |
| 2408 | sp|Q20WN5|HTPG\_RHOPB | MTTTDTAPQSQPFQAEVAELLNLMVHSVYSETDIFLRELISNASDALDKLRYESIAKPELMADGGEPKIRILPKKEPDTLSVIDNGLGMDRQELIDNLGTIAKSGTKSFLTKLTEAKDGAGLIGQFGVGFYAAFMVADRIVVTSRRARSAEAWTWSSSGGAGFEIAPASEEDAARVTRGTEIVLHLKKDAAKYLEPYEIERVVGAYSDNIQFPIELVPEEGEPRQINSASALWQRSKSELTAEDYSQAYKQIAGAFDEPAMTLHYRAEGRYSYAVLLFAPSTKPFDLFEPARKGRVKLYVRRVFITDEADLLPSYLRFIRGVIDSEDLPLNLSREMLQNNPQLAQIRKAVTGKVIGELESLGDKDPEAFGKIWDAFGLVIKEGIWEDYERRDKLLALSRFTTTKGENRTLKQYVEDLKENQTEIYYLVGDSIERLKSNPKLESAAARGIEVLLLTDPVDAFWTSAPLDFGGKPLKSLSQGDVDFGQIPTTEENKDEQAKPETDEALTIAAIKDALGDKVSDVRASQRLTASASCLVAGGLGPDRALERMLAQQNRGAASKPILEVNLRHPIVAAVAKANAADAADLSLLLLEQAQILDGELPEDPAAFSARLNRLVLRAL |
| 2409 | sp|A1STI2|HTPG\_PSYIN | MEHQQNHTFSADTGKLLKLMIHSLYSNKEIFLRELVSNAADAADKLRFKALSDGSLFENDGDLRVRLSFDADLKTITISDNGIGMSRDEVIEHLGTIAKSGTSDFFEQLSGDQVKDSQLIGQFGVGFYSSFIVADKVTVNTRKAGEPASQGTCWISTGESDYTVADIEKAGRGTEITLHLRDDETEFLNDYKLRGIVSKYSDHISIPVEMFKEATEESEGSDGEKVPATEATWEAVNKATALWSCSKSELKDEEYKEFYKHIANDFEDPLTWSHNKVEGEQAYTSLLYIPKRAPYDLWNREKAHGLKLYVQRVFVMDDAEQFMPTYLRFVKGVLDSNDLPLNVSREILQDTRVTAKLRSGCTKRVLDLLTKLAKKDDDAYNLFWKEFGQVLKEGPAEDSSNKEKIGKLFRFSSTETDSTEQTVSLDAYISRMTEGQDKIYYITADSFNAAKNSPHLEVLREKGIEVLLLSDRIDEWLLSHLPEYDGKTFTSVTQGDLDLGKLDSEEKKKEQEKQETEFASFVERVKAVLGDKVKDVRLTHRLTSTPSCIVADNDDMSTQMAKLMAQMGQPVPESKPVFELNPEHVMIVKLADMADEDLFAQWSELLLEQAILSEKGSLDDPSEFVGRINKLLLA |
| 2410 | sp|A1VZ21|HSLU\_CAMJJ | MNLTPKEIVKFLDDYVIGQKKAKKIIAIALRNRYRRMQLSPELQDDIVPKNILMIGSTGVGKTEIARRLAKMMGFPFIKIEASKYTEVGFVGRDVESMVRDLANAALNLVKNEQREKNKDKIDEFIENKILEKLLPPLPKGISDEKQEEYKNSLEKMRTKLRNGNLDESTIEIEISQNMFDTNPNLPPEMGAMQDIVKVIGVGSKKVKKEMKIKDAKNALKNEAGEKILDQESIKSEALKRAENEGIIFIDEIDKIAVSSGNSNRQDPSKEGVQRDLLPIVEGSNVQTKIGTLKTDHILFIAAGAFHLSKPSDLIPELQGRFPLRVELDSLDDKALYEILTRPKNSLLKQYSQLLKTENLELEFDDEAIKEIAKIASRANEEMQDIGARRLHTVIEKLLEDLSFEADEYAGKKFVVDKKMVEEKLGDIIENKDLARYIL |
| 2411 | sp|B2JJX7|HSLU\_PARP8 | MSTMTPAEIVSELDKHIIGQNRAKKAVAVALRNRWRRQQVDEPLRQEITPKNILMIGPTGVGKTEIARRLAKLADAPFIKIEATKFTEVGYVGRDVDSIVRDLIEISVKQTRETEMRKMRTKAEDLAEDRILDILLPGARTVGFGSGTSEASGDESNTTRQTFRKRLREGALDDKEIELDIEMQAPAMDIMGPPGMEDMTEQIRSMFANLGGGKKTRRKVKVKEALKLLTDEEASKMLNDEEVKTKAVQNVEQNGIVFLDEIDKIASRSEAGGGEVSRQGVQRDLLPLVEGTTINTKYGMVKTDHILFIASGAFHLAKPSDLIPELQGRFPIRVELDSLSVKDFESILVATDASLVKQYQALLATEDVHLEFADDGIRRLAEIAFSVNEKTENIGARRLYTVIEKLLEEVSFSAGNHTGKSVLIDAAYVDRALNDVAQDEDLSRYVL |
| 2412 | sp|A9MW88|HTPG\_SALPB | MKGQETRGFQSEVKQLLHLMIHSLYSNKEIFLRELISNASDAADKLRFRALSNPDLYEGDGELRVRVSFDKDKRTLTIADNGVGMNRDEVIDHLGTIAKSGTKSFLESMGSDQAKDSQLIGQFGVGFYSAFIVADKVTVRTRAAGDKPENGVFWESAGEGEYTVADITKNDRGTEITLHLREGEDEFLDDWRVRSIISKYSDHIALPVEIEKREEKDGETVISWEKINKAQALWTRNKSEIKDDEYNEFYKHIAHDFTDPLTWSHNRVEGKQEYTSLLYIPSQAPWDLWNRDHKHGLKLYVQRVFIMDDAEQFMPNYLRFVRGLIDSNDLPLNVSREILQDSTVTRNLRSALTKRVLQMLEKLAKDDAEKYQTFWKQFGLVLKEGPAEDHANQEAIAKLLRFASTHTDSSAQTVSLEDYVSRMKEGQEKIYYITADSYAAAKNSPHLELLRKKGIEVLLLSDRIDEWMMNYLTEFDGKAFQSVAKADESIEKLADEVDENAKEAEKALEPFVERVKTLLGDRVKEVRLTHRLTDTPAIVTTDADEMSTQMAKLFAAAGQSVPEVKYIFELNPDHVLVKRTADTEDEAQFKEWVELLLDQALFAERGTLEDPNQFIRRMNQLLVS |
| 2413 | sp|B2A337|HSLU\_NATTJ | MIISTEELTPQEIVERLDKYIIGQNKAKRSMAIAIRNRYRRQKLEEELKEEVIPKNILMIGPTGVGKTEIARRLAKLIKAPFIKIEVTKFTEVGYVGRNVESMVKDLVAESIQLVEEEKHEEVSKQARKQAENRIIDLLLSEKKSSSKGEQETDLRTRRREIKEQLFKGLLEDEYVTVKLEKEPAQDDNLMGEQFEEMGVNFKELFGKILPKESEHKKMTVKEARKVLTRQEADKLINKDQVNQEAIERAENYGIIFLDEFDKIAASSGKQSGGQDVSREGVQRDILPIVEGSTVNTRYGRVKTDHIMFIGAGAFHDSKPADLIPELQGRFPIRVELDSLTKDDFYRILTEPSNALLEQYKALLRTEEVKVNFTEDAIEELANMCEYVNENTEDIGARRLHTILETLLEELSFYAPEMKGQEVEINSNYVKDQLQDIVTEKDSSRFIL |
| 2414 | sp|P14602|HSPB1\_MOUSE | MTERRVPFSLLRSPSWEPFRDWYPAHSRLFDQAFGVPRLPDEWSQWFSAAGWPGYVRPLPAATAEGPAAVTLAAPAFSRALNRQLSSGVSEIRQTADRWRVSLDVNHFAPEELTVKTKEGVVEITGKHEERQDEHGYISRCFTRKYTLPPGVDPTLVSSSLSPEGTLTVEAPLPKAVTQSAEITIPVTFEARAQIGGPEAGKSEQSGAK |
| 2415 | sp|Q31YM9|HSPQ\_SHIBS | MIASKFGIGQQVRHSLLGYLGVVVDIDPVYSLSEPSPDELAVNDELRAAPWYHVVMEDDNGLPVHTYLAEAQLSSELQDEHPEQPSMDELAQTIRKQLQAPRLRN |
| 2416 | sp|P34932|HSP74\_HUMAN | MSVVGIDLGFQSCYVAVARAGGIETIANEYSDRCTPACISFGPKNRSIGAAAKSQVISNAKNTVQGFKRFHGRAFSDPFVEAEKSNLAYDIVQLPTGLTGIKVTYMEEERNFTTEQVTAMLLSKLKETAESVLKKPVVDCVVSVPCFYTDAERRSVMDATQIAGLNCLRLMNETTAVALAYGIYKQDLPALEEKPRNVVFVDMGHSAYQVSVCAFNRGKLKVLATAFDTTLGGRKFDEVLVNHFCEEFGKKYKLDIKSKIRALLRLSQECEKLKKLMSANASDLPLSIECFMNDVDVSGTMNRGKFLEMCNDLLARVEPPLRSVLEQTKLKKEDIYAVEIVGGATRIPAVKEKISKFFGKELSTTLNADEAVTRGCALQCAILSPAFKVREFSITDVVPYPISLRWNSPAEEGSSDCEVFSKNHAAPFSKVLTFYRKEPFTLEAYYSSPQDLPYPDPAIAQFSVQKVTPQSDGSSSKVKVKVRVNVHGIFSVSSASLVEVHKSEENEEPMETDQNAKEEEKMQVDQEEPHVEEQQQQTPAENKAESEEMETSQAGSKDKKMDQPPQAKKAKVKTSTVDLPIENQLLWQIDREMLNLYIENEGKMIMQDKLEKERNDAKNAVEEYVYEMRDKLSGEYEKFVSEDDRNSFTLKLEDTENWLYEDGEDQPKQVYVDKLAELKNLGQPIKIRFQESEERPKLFEELGKQIQQYMKIISSFKNKEDQYDHLDAADMTKVEKSTNEAMEWMNNKLNLQNKQSLTMDPVVKSKEIEAKIKELTSTCSPIISKPKPKVEPPKEEQKNAEQNGPVDGQGDNPGPQAAEQGTDTAVPSDSDKKLPEMDID |
| 2417 | sp|P70918|HSPB\_BRADU | MRTTYDFAPLWRSTIGFDRLFDLVDAAQQAGTEDNYPPCNVERLSEDRYQISLAVAGFSADEIAITAEQSVLTVEGRKSEKQQREFLYQGISSRPFKRQFNLADYVQVKGASFDNGLLQIELVREIPEAMKPRRISISGSSASNVRQIDGKAA |
| 2418 | sp|P12078|HSP73\_PLAFA | EFRETAGGVMTKLIERNTTIPTKKNQIFTTYADNQPGVLIQVYEGERAMTKDNNLLGKFQLEGIPPAPRSVPQIEVTFDIDANGILNVTALDKGTGKQNQITITNDKGRLSKDDIDRMVNDAEKYKEEDEQNKNRIEARNNLENYCYNVKNTLQDENLKTKIPKDDSEKCMKTVKSVLDWLEKNQTAETEEYNEKEKDTEF |
| 2419 | sp|A1JNB3|HTPG\_YERE8 | MSMKGQETRGFQSEVKQLLHLMIHSLYSNKEIFLRELISNASDAADKLRFRALSHPELFEGDGELRVRLSFDKEKRTLTLSDNGIGMSREEVIDNLGTIAKSGTKAFLESIGSDQAKDSQLIGQFGVGFYSAFIVADKVTVRTRAAGAPADAGVFWESAGEGDYTIADITKEDRGTEITLHLREGEDEYLDNWRLRSVISKYSDHIALPVEIESKNEEDGTVTWEKINKAQALWTRGKAEITDDEYKAFYKHIAHDFTDPLIWSHNRVEGKQEYTSLLYIPAQAPWDMWNRDHKHGLKLYVQRVFIMDDAEQFMPNYLRFVRGLIDSNDLPLNVSREILQDSRVTQNLRSALTKRVLQMLEKLAKDDAEKYQQFWQQFGMALKEGPAEDGSNKDTIAKLLRFASTHTDSSAQTVSLEDYVSRMAEGQEKIYYITADSYAAAKNSPHLELFRKKGIEVLLLSDRIDEWMMSYLTEFDGKAFQSVSKADDSLNKLADEERPEQQEADKALEPFVERVKTLLGERVKDVRLTHRLTDTPAIVTTDADEMSTQMAKLFAAAGQQAPEVKYIFELNPEHSLVKRAADVADDTQFAEWVELLLDQALLAERGTLEDPNQFIRRMNQLLTA |
| 2420 | sp|Q9W6Y1|HSP7C\_ORYLA | MSKGPAVGIDLGTTYSCVGVFQHGKVEIIANDQGNRTTPSYVAFTDTERLIGDAAKNQVAMNPTNTVFDAKRLIGRRFDDHVVQSDMNDWPFNVINDNTRPKVQVEYKGETKSFYPEEVSSMVLTKMKEIAEAYLGKTVNNAVITVPAYFNDSQRQATKDAGTISGLNVLRIINEPTAAAIAYGLDKKVGSERNVLIFDLGGGTFDVSILTIEDGIFEVKSTAGDTHLGGEDFDNRMVNHFIAEFKRKYKKDISDNKRAVRRLRSACERAKRTLSSSTQASIEIDSLYEGVDFYTSITRARFEELNADLFRGTLDPVEKSLRDAKMDKGQIHDIVLVGGSTRIPKIQKLLQDFFNGKELNKSINPDEAVAYGAAVQAAILSGDKSENVQDLLLLDVTPLSLGIETAGGVMTVLIKRNTTIPTKQTQTFTTYSDNQPGVLNQVYEVGAMTKDNNLLGKFELTGIPPALWCPQIEVTFDIDANGIMNVSAVDKSTGKENKITITNDKGRLSKEDIERMVQEAEKYKAEDDVQRDKVSAKNGLESYAFNMKSTVEDEKLAGKISDEDKQKILDKCNEVISWLDKNQTAERDEYVHQQKELEKVCNPIITKLYQSAGGMPGGCQRECQEVSLELVVLLAVALLDQPLKKLIKHSMTSPSKIFTKKTLFKCNMQSIKSVMRLNQFPFITIT |
| 2421 | sp|B7IE26|HSLU\_THEAB | MSDFDKLTPKQIVEELDKYIVGQSKAKKAVAIAIRNRIRRQKLSEEWKKEITPKNILMIGPTGVGKTEIARRLAQLSGSPFLKIEATRFTEVGYVGKNVDSMIRELVEIAVNMVKQQKMKEVEEKAKLNVEERILDALVPMKKKTQIPFANIFGMQMEKPQQTDDYSENLRKREELRRRLRSGELDNEEIEIEIETSNSPIGFIGLPEMEDIGMDLSNVIGNIFPKQKKRRKMKISEAKKVLLPIEEEKLIDMDETIQTALELAQNRGIIFIDEMDKIAAKTGSSGQDVSRQGVQRDLLPIVEGTTITTKYGPVKTDYILFIAAGAFHVSKPSDLIPELQGRFPIRVELEPLKEEDFVRILVEPENALTKQYQALLYTENVQLEFTDDGIKELARVSYKLNQKLENIGARRLYTVLEKVLEDVLFEAPEIEEKIIVDADYVTKKLKGIIEDEDLTSYIL |
| 2422 | sp|P08238|HS90B\_HUMAN | MPEEVHHGEEEVETFAFQAEIAQLMSLIINTFYSNKEIFLRELISNASDALDKIRYESLTDPSKLDSGKELKIDIIPNPQERTLTLVDTGIGMTKADLINNLGTIAKSGTKAFMEALQAGADISMIGQFGVGFYSAYLVAEKVVVITKHNDDEQYAWESSAGGSFTVRADHGEPIGRGTKVILHLKEDQTEYLEERRVKEVVKKHSQFIGYPITLYLEKEREKEISDDEAEEEKGEKEEEDKDDEEKPKIEDVGSDEEDDSGKDKKKKTKKIKEKYIDQEELNKTKPIWTRNPDDITQEEYGEFYKSLTNDWEDHLAVKHFSVEGQLEFRALLFIPRRAPFDLFENKKKKNNIKLYVRRVFIMDSCDELIPEYLNFIRGVVDSEDLPLNISREMLQQSKILKVIRKNIVKKCLELFSELAEDKENYKKFYEAFSKNLKLGIHEDSTNRRRLSELLRYHTSQSGDEMTSLSEYVSRMKETQKSIYYITGESKEQVANSAFVERVRKRGFEVVYMTEPIDEYCVQQLKEFDGKSLVSVTKEGLELPEDEEEKKKMEESKAKFENLCKLMKEILDKKVEKVTISNRLVSSPCCIVTSTYGWTANMERIMKAQALRDNSTMGYMMAKKHLEINPDHPIVETLRQKAEADKNDKAVKDLVVLLFETALLSSGFSLEDPQTHSNRIYRMIKLGLGIDEDEVAAEEPNAAVPDEIPPLEGDEDASRMEEVD |
| 2423 | sp|P0A6Z1|HSCA\_ECOLI | MALLQISEPGLSAAPHQRRLAAGIDLGTTNSLVATVRSGQAETLADHEGRHLLPSVVHYQQQGHSVGYDARTNAALDTANTISSVKRLMGRSLADIQQRYPHLPYQFQASENGLPMIETAAGLLNPVRVSADILKALAARATEALAGELDGVVITVPAYFDDAQRQGTKDAARLAGLHVLRLLNEPTAAAIAYGLDSGQEGVIAVYDLGGGTFDISILRLSRGVFEVLATGGDSALGGDDFDHLLADYIREQAGIPDRSDNRVQRELLDAAIAAKIALSDADSVTVNVAGWQGEISREQFNELIAPLVKRTLLACRRALKDAGVEADEVLEVVMVGGSTRVPLVRERVGEFFGRPPLTSIDPDKVVAIGAAIQADILVGNKPDSEMLLLDVIPLSLGLETMGGLVEKVIPRNTTIPVARAQDFTTFKDGQTAMSIHVMQGERELVQDCRSLARFALRGIPALPAGGAHIRVTFQVDADGLLSVTAMEKSTGVEASIQVKPSYGLTDSEIASMIKDSMSYAEQDVKARMLAEQKVEAARVLESLHGALAADAALLSAAERQVIDDAAAHLSEVAQGDDVDAIEQAIKNVDKQTQDFAARRMDQSVRRALKGHSVDEV |
| 2424 | sp|Q02RW4|HSCA\_PSEAB | MALLQIAEPGQSPKPHERRLAVGIDLGTTNSLVAAVRSGVAEPLPDAQGRLILPSAVRYHAERAEVGESARAAAAKDPFNTIISVKRLMGRGLEDVKQLGEQLPYRFRQGESHMPFIETVQGLKSPVEVSADILRELRQRAETTLGGELVGAVITVPAYFDDAQRQATKDAARLAGLNVLRLLNEPTAAAVAYGLDKGAEGLVAIYDLGGGTFDISILRLTRGVFEVLATGGDTALGGDDFDHAIAGWVIEQAGLSADLDPGSQRQLLQIACAAKERLTDEASVRVAYGDWSGELSRATLDELIEPFVARSLKSCRRAVRDSGVDLEEIRSVVMVGGSTRVPRVRTAVGELFGCEPLTDIDPDQVVAIGAAIQADALAGNKRGEELLLLDVIPLSLGLETMGGLMEKVIPRNTTIPVARAQEFTTYKDGQTAMMIHVLQGERELVKDCRSLARFELRGIPPMVAGAAKIRVTFQVDADGLLGVSARELSSGVEASIQVKPSYGLTDGEIARMLKDSFDYAGDDKAARALREQQVEAQRLLEAVQSALDVDGERLLDEEERLAIAAQMDTLRELAGGSDTAAIENQIKRLSQVTDAFAARRMDATVKAALSGRRLNEIEE |
| 2425 | sp|Q5NVM9|HSP7C\_PONAB | MSKGPAVGIDLGTTYSCVGVFQHGKVEIIANDQGNRTTPSYVAFTDTERLIGDAAKNQVAMNPTNTVFDAKRLIGRRFDDAVVQSDMKHWPFMVVNDAGRPKVQVEYKGETKSFYPEEVSSMVLAKMKEIAEAYLGKTVTNAVVTVPAYFNDSQRQATKDAGTIAGLNVLRIINEPTAAAIAYGLDKKVGAERNVLIFDLGGGTFDVSILTIEDGIFEVKSTAGDTHLGGEDFDNRMVNHFIAEFKRKHKKDISENKRAVRRLRTACERAKRTLSSSTQASIEIDSLYEGIDFYTSITRARFEELNADLFRGTLDPVEKALRDAKLDKSQIHDIVLVGGSTRIPKIQKLLQDFFNGKELNKSINPDEAVAYGAAVQAAILSGDKSENVQDLLLLDVTPLSLGIETAGGVMTVLIKRNTTIPTKQTQTFTTYSDNQPGVLIQVYEGERAMTKDNNLLGKFELTGIPPAPRGVPQIEVTFDIDANGILNVSAVDKSTGKENKITITNDKGRLSKEDIERMVQEAEKYKAEDEKQRDKVSSKNSLESYAFNMKATVEDEKLQGKINDEDKQKILDKCNEIINWLDKNQTAEKEEFEHQQKELEKVCNPIITKLYQSAGGMPGGMPGGFPGGGAPPSGGASSGPTIEEVD |
| 2426 | sp|B7NE05|HSLO\_ECOLU | MPQHDQLHRYLFENFAVRGELVTVSETLQQILENHDYPQPVKNVLAELLVATSLLTATLKFDGDITVQLQGDGPMNLAVINGNNNQQMRGVARVQGEIPENADLKTLVGNGYVVITITPSEGERYQGVVGLEGDTLAACLEDYFMRSEQLPTRLFIRTGDVDGKPAAGGMLLQVMPAQNAQQDDFDHLATLTETIKTEELLTLPANEVLWRLYHEEEVTVYDPQDVEFKCTCSRERCADALKTLPDEEVDSILTEDGEIDMHCDYCGNHYLFNAMDIAEIRNNASPADPQVH |
| 2427 | sp|Q1IEI8|HSCA\_PSEE4 | MALLQIAEPGQSPQPHQRRLAVGIDLGTTNSLVAALRSGRSEPLPDAQGNVILPSAVRYLANGVEVGLGAREAAPSDPLNSILSVKRLMGRGLADVKQLGEQLPYRFVGGESHMPFIDTVQGPKSPVEVSADILKVLRQRAEDTLGGELVGAVITVPAYFDDAQRQATKDAAKLAGLNVLRLLNEPTAAAVAYGLDQHAEGVVAIFDLGGGTFDISILRLTAGVFEVLATGGDTALGGDDFDHAIAGWIIEQAGLSADLDPATQRLLLQTACAAKEALTDSEAVSVQHGAWQGELTRGAFEAMIEPMIARSLKACRRAVRDSGIELEEVGAVVMVGGSTRVPRVREAVGSLFGRTPLTSIDPDQVVAIGAAIQADTLAGNRREGGELLLLDVIPLSLGLETMGGLMEKVIPRNTTIPVARAQEFTTYKDGQSAMMIHVLQGERELISDCRSLARFELRGIPAMVAGAAKIRVTFQVDADGLLSVAARELGSGVESSIQVKPSYGLTDGEIARMLKDSFEHAGADKHARQLREHQVDAERLLEAVQGALDADGERLLSDDEREAIAFQMQELRDLLTGTDGAAIEQQTKRLSQVTDAFAARRLDSTVKAALAGRNLNEIEE |
| 2428 | sp|Q07764|HVA22\_HORVU | MGKSWALLTHLHSVAGPSITLLYPLYASVCAMESPSKVDDEQWLAYWILYSFITLLEMVAEPVLYWIPVWYPVKLLFVAWLALPQFKGASFIYDKVVREQLRKYRGRNRNGDADHKVHILKAEADHGRVH |
| 2429 | sp|Q607A3|HRCA\_METCA | MASFPELSERAQQLLKALVERYIGEGQPVGSRVLARDAGLSPATIRNVMADLEELGLITSPHTSAGRLPTVSGYRLFVDSLLTVKPLHQAIVDQLWLDLESRENPRDLLETASKLLSELTHMACIISMPRRETLVFQHIEFLPLSDNRVLAILVTSDQEIHNKIIHTPHKFSAAELQTAANFFNAVCGGKDMVSAREHLRAELAKERDRLSEQLLQAGEIAEQALAEGGRSRKPFLVRGETNLMDFVELADVDRLRGLFEAFRQKESIVGLLDRCLESPGVKIIIGEESGFRPLEPCSLVTASYSVDNRVMGVLGVIGPTRMKYERVIPLVDVTAKLVGAALNQRTLAPT |
| 2430 | sp|D0VYS2|HSF3\_MOUSE | MEQFRKTMVPHFLTKLWILVDDAVLDHVIRWGKDGHSFQIVNEETFAREVLPKYFKHNKITSFIRQLNMYGSRKVFALQTEKTSQENKISIEFQHPLFKRGEACLLANIKRKVPTIKIEGASLYSDEFQKIVTEMQEFKDMQRKMDAKYTQMKQDYSNLYHEVTNLRKKYCAQQQLLTRVLHFILDLMSENHTVLKKRKRSLSFISEDSDSEWDHQYFRIPEDKKEAMEILKDGYELVEDKYKSLLDRVMPILKESKKLISSGDQPSGDDGEHPKVPVQDKPMNEESLTIQLDLTIPVLPEQITEESVEQEPKDISLELDLSSQDSILMKDKSDNLYNNIINRDKKDMHHTEGNLLELNSLLSRKALNYDSDHFSESLSLMKNEEEKSQLDLSGGKDNHMIQCMETPELFLLDEIPMCDFGENLQDYDRLLEDLKNPPNVISALCDHDYVTSNISTLQEDTIENSIPQLCMEANGESSVFPFLILNPVTNIF |
| 2431 | sp|Q4R4T5|HS90B\_MACFA | MPEEVHHGEEEVETFAFQAEIAQLMSLIINTFYSNKEIFLRELISNASDALDKIRYESLTDPSKLDSGKELKIDIIPNPQERTLTLVDTGIGMTKADLINNLGTIAKSGTKAFMEALQAGADISMIGQFGVGFYSAYLVAEKVVVITKHNDDEQYAWESSAGGSFTVRADHGEPIGRGTKVILHLKEDQTEYLEERRVKEVVKKHSQFIGYPITLYLEKEREKEISDDEAEEEKGEKEEEDKDDEEKPKIEDVGSDEEDDSGKDKKKKTKKIKEKYIDQEELNKTKPIWTRNPDDITQEEYGEFYKSLTNDWEDHLAVKHFSVEGQLEFRALLFIPRRAPFDLFENKKKKNNIKLYVRRVFIMDSCDELIPEYLNFIRGVVDSEDLPLNISREMLQQSKILKVIRKNIVKKCLELFSELAEDKENYKKFYEAFSKNLKLGIHEDSTNRRRLSELLRYHTSQSGDEMTSLSEYVSRMKETQKSIYYITGESKEQVANSAFVERVRKRGFEVVYMTEPIDEYCVQQLKEFDGKSLVSVTKEGLELPEDEEEKKKMEESKAKFENLCKLMKEILDKKVEKVTISNRLVSSPCCIVTSTYGWTANMERIMKAQALRDNSTMGYMMAKKHLEINPDHPIVETLRQKAEADKNDKAVKDLVVLLFETALLSSGFSLEDPQTHSNRIYRMIKLGLGIDEDEVAAEEPSAAVPDEIPPLEGDEDASRMEEVD |
| 2432 | sp|Q2YXL5|HSLV\_STAAB | MSNTTLHATTIYAVRHNGKAAMAGDGQVTLGQQVIMKQTARKVRRLYEGKVLAGFAGSVADAFTLFEKFETKLQQFSGNLERAAVELAQEWRGDKQLRQLEAMLIVMDKDAILVVSGTGEVIAPDDDLIAIGSGGNYALSAGRALKHHASHLSAEEMAYESLKVAADICVFTNDNIVVETL |
| 2433 | sp|Q602E0|HRCA\_MYCH2 | MPKLDSKKEKYLKQIVENFIKTGESIGSLNLKQSYGIKKSPSYLRAIMNQLEKEGFLEKSHSSSGRIPTLQGFQYYAEFLSFDENENLANKLKDLFARRRINIENTISEAVKLISESVGTTLIATTNNENERLMSINLTQISQNEGIIVVVSSSGNVENKKITFSEQIPRQDVKIAIRLFQERLINTPLLEISSKLAILKQELEKQIKHSDELLHHFMEKIFNFQVQNKSNIYNKNSLILDKEISRAKLVDLLYIIEKKSIWEMLEDRTTKDDDTLKISIKSPEVSFISKKFEKFLPIKEISMVGAAKKINYSAARTGIKLLEDFLSNKSKIRKG |
| 2434 | sp|Q1GCN3|HSLU\_RUEST | MTDLTPREIVSELDRFIIGQKDAKRAVAVALRNRWRRKQLPDDLRDEVHPKNILMIGPTGVGKTEISRRLAKLARAPFIKVEATKFTEVGYVGRDVEQIVRDLVDTAIVQTREHMREDVKAKAHKAAEDRVLEAIAGTDARESTLEMFRKKLKAGELDDTVIELDIADTSNPMGGMFEIPGQPGANMGMMNLGDLFGKAMGGRTTRKKLTVAESYDVLIGEEADKLLDDETVNKAALEAVEQNGIVFLDEIDKVCARSDARGGDVSREGVQRDLLPLIEGTTVSTKHGPVKTDHILFIASGAFHIAKPSDLLPELQGRLPIRVNLRALSEEDFVRILTETDNALTRQYEALLGTEKVKVTFTKDGIHALAQIAAEVNHTVENIGARRLYTVMERVFEEMSFAAPDRSGEEIIVDEPFVTKNLGELTKSTDLSRYVL |
| 2435 | sp|A1TBR8|HRCA\_MYCVP | MGSADDRRFEVLRAIVADFVATKEPIGSKAIVERHNLGVSSATVRNDMAVLEAEGYITQPHTSSGRVPTEKGYREFVDRLQDVKPMSGAERRAILQFLESGVDLDDVLRRAVRLLAQLTRQVAVVQYPTLTTSTVRRLEVVALTPARLLLVVITDTGRVDQRIVELGDGIDDGQLAQLRDMLGSALEGKPLAAASVAVSDLAVHLNGQGGLADAVGRSATVLVETLVEHTEERLLLGGTANLTRNTADFGGSLRSVLEALEEQVVVLRLLAKQQEAGKVTVRIGHETEAEEMAGTSVISTAYGSAGKVFGGMGVLGPTRMDYPGTIANVAAVALYIGEVLGNR |
| 2436 | sp|B7MDM6|HSLO\_ECO45 | MPQHDQLHRYLFENFAVRGELVTVSETLQQILENHDYPQPVKNVLAELLVATSLLTATLKFDGDITVQLQGDGPMNLAVINGNNNQQMRGVARVQGEIPENADLKTLVGNGYVVITITPSEGERYQGVVGLEGDTLAACLEDYFMRSEQLPTRLFIRTGDVDGKPAAGGMLLQVMPAQNAQQDDFDHLATLTETIKTEELLTLPANEVLWRLYHEEEVTVYDPQDVEFKCTCSRERCADALKTLPDEEVDSILAEDGEIDMHCDYCGNHYLFNAMDIAEIRNNASPADPQVH |
| 2437 | sp|B6JCI0|HRCA\_OLICO | MSHHDPKEALITPGAALSQLNERSRDIFRQIVENYLATGEPVGSRNISRMISVPLSPASVRNVMADLEQLGLIYAPHTSAGRLPTELGLRFFVDALMQVGDLTEDERQSIQAQLAAIGKQQSIEATLSDAMMRLSGLTRAAAVVLTGKSNPRLKHIEFVRLEPEQALVVLVSEDGQIENRVLALPPGVPSSALIEASNFLNSRIRGRTLSEVRGELEAALAQRRSELDQLTQKIIAAGVASWSGGSSDERRLIVRGHANLLEDLHAMEDLERVRLLFDDLETKKGVADLLGLAEQGEGVRIFIGSENKLFSLSGSSTITAPYRDSSGRIVGVLGVIGPTRLNYARVIPMVDYAARIVSQMLGK |
| 2438 | sp|Q04Y45|HRCA\_LEPBL | MDLTERHKRILKALVDEFIQENRPVGSKTLFDKHDIGLSPASIRTVLKDLEDYGYLASKHTSGGRIPTERGYRFYVDSLVILYELTLKEKQRIQQEYLKMQFKLDQILKATASVLSSLSNAAGIVIGPAKNLDTLKHLELIHVRGDEILMILVMRSGTVLHRNIFVDRNYSQEALYQVSKYLNDNLKGYDIYEIQNVVVPNLMVRRDGPEDFTRIAELLSSAMNPDNSEVTLYIDGFKNLYANFRDEEQQLSQVLSLLDDQGFLKEFFSEYIDQDGVYTIIGKDGNRSMSGVSIITSNYKMGEKKIGALGIIGPQRMDYNRALPLVDFTSKLVSEMVTRISK |
| 2439 | sp|B1KK51|HSLU\_SHEWM | MSEMTPREIVHELDSHIIGQHNAKRSVAIALRNRWRRMQLDADFRQEVTPKNILMIGPTGVGKTEIARRLAKLARAPFIKVEATKFTEVGYVGKEVEQIIRDLTDSAIKLTREEQMKKCKFRAEEAAEERILDALLPKAKEDWDNEKPDDSATRQVFRKKLREGQLDDKEIEIDVSAPQVGIEIMSPPGMEEMTNQLQSMFQNMGLGASKRRKMPIKEAYKLMVEEEAAKLVNQDDLKEQAIELVEQHGIVFLDEIDKICKRGEASGPDVSREGVQRDLLPLVEGCTVNTKHGMVKTDHILFIASGAFQMSKPSDLIPELQGRLPIRVELDALSADDFKRILTEPHASLTEQQIALMGTEGVKIEFTEDGIESIAQAAWQVNERTENIGARRLHTVMEKLTEELSYEASDKSGSTIVIDAKYVSDHLDNLVQDEDLSRFIL |
| 2440 | sp|A8FL81|HSLV\_CAMJ8 | MFHATTILAYKGKNKSVIGGDGQVSFGNTVLKGNAVKIRKLNNGKVLAGFAGSTADAFNLFDMFENLLQSSKGDLLKAAIDFSKEWRKDKYLRKLEAMMLVLDRNHIFLLSGTGDVVEPEDGQIAAIGSGGNYALSAARALAKHASLDEEELVKSSLQIAGEICIYTNTNIKTYVIEDEK |
| 2441 | sp|A8FFD4|HRCA\_BACP2 | MLTNRQLLILQVIINDFIRSAQPVGSRTLSKKEDITFSSATIRNEMADLEELGFIEKTHSSSGRIPSEKGYRYYVDHLLSPRKLSSNELVLIQSAFQEKIFELEKTVQKSAEILSDLTNYTSIVLGPKLSENRLKQIQLVPVQPNKAVAIMITDSGHVENKTITFSEHLDVSDIEKLMNILNSRLAGVPMDQLKDRMYKEVVMLLRTHLKDYDHILDALGNTFTSTQNESKLFFGGKINMLNQPEFHDIDRIRSLMMLIEQKNDVMQLFHPNQQGITIKIGSENNLEAMENCSLITATYSIDQKSLGSIAVIGPTRMDYGRVVSLLHHVSKDLSNALSNLYDE |
| 2442 | sp|B8GTA1|HSLU\_THISH | MSDMTPREIVQELDKHIVGQKDAKRAVAIALRNRWRRQQLPEALRQEVTPKNILMIGPTGVGKTEIARRLARLANAPFIKVEATKFTEVGYVGRDVESIIRDLVDAAIKLLREQEMGKVRFRAEEAAEERVLDVLLPAPRQAGFMSEPASAPEQSETRQKFRKRLREGQLDDKEIEIQVSATPVGVEIMTPPGMEEMASQLQSLFQNIGGGRSQTRKLKIRDAMKLLTDEEAARMVNQDELKLRAVANVEQNGIVFLDEIDKVAKRGEYGGADVSREGVQRDLLPLVEGCTVNTKFGMVRTDHILFIASGAFHLSKPSDLIPELQGRLPIRVELSALTAEDFVRILTEPDASLTEQYSALLQTEGVEVNFAEDGVRRIAEIATRVNERTENIGARRLHTVMERLLEQISFEAPDHQGPVSIDAAYVDERLEELVQDEDLSRYIL |
| 2443 | sp|A0LH26|HRCA\_SYNFM | MSDLSKRDQHVLEAVVTDYIHTGEPVGSRTISKRYGVNVSSATIRNVMADLEEMGFLHQPHTSAGRIPTERGLRFYLDSIMQFKALEEREREMIREAFRNELPDVKELLRRTSRVLSRFCRQAGVVLWPKLTLTLFKRIEFIRLRAHQIMVLLVSKTGLVHHTLVEWEQDIGQEELDKYSRYLNDLLEDMPLGEVKQRVLEEMRDEKVLFDQLYSRALKITDRVFQQNLESSDVYIEGRTNLLNNPEFADVDRMRRILDAFEDKSRIIRLLDRTLRNSTGVQIILGTENDLQELNEISLISSPYRRGDTLLGVMGVIGPLRMDYSRIIPVVEFTADLLSQLLEEPGED |
| 2444 | sp|Q0SHB5|HRCA\_RHOJR | MSSTDDRRFEVLRAIVADYVSTQEPVGSKALVERHNLGVSSATVRNDMAFLESEGYIAQPHTSSGRVPTDKGYRQFVDRIADVKPLSTAERRAILEFLESGVDLDDVLRRGVRLLAQLTRQVAVVQYPTLSASSVRHLEVVALTPARLLLVLITDSGRVDQRIVELGDVLDDEDLARLRGLLGGALDGKRLAAASIAVSELADEAPEDLRDAVVRSATVLVETLVEHPEERLVLGGTANLTRNAADFSGISGFPGSLRAVLEALEEQVVVLKLLAATQDAGTVTVRIGEETQVEQMRGTSVISTGYGAAGTVLGGMGVLGPTRMDYPGTIASVAAVARYIGQVLAER |
| 2445 | sp|P54306|HRCA\_CHLMU | MENRTEMSQLRASKKDSKISHVLLMAIKLYLESGQPVGSKLLKETYCSDLSSATIRNYFAQLETDGFLRKNHISGGRIPTDLAFRYYADHCSPVLEQEEISIIQQKLKELPEYSKNIVKDLQKASEILSEILQLPVCFSSPRFESDSVTNIQLVSIDDLRVVFVLSTEFGQLFTDVLWLPEQLPENSLKRIESFLQNYLRKHPSSVPLSQKEEDLGMTLYNEVVVRYLTRYCHFSEEDLYQTGLSRLLKYEVFKDPETLAQGLSFFENRKHMCQLLNSHLHKKAPTTFIGRELSDIVGNADPSCAVITVPYYMDRTPLGAFGVLGPMNLPYQQVFGTLSLFTERLKTILTQSFYKFKLSFRRPCPTDPRCSQKPAELTRRSSIKLLPAKELT |
| 2446 | sp|B3QPX0|HRCA\_CHLP8 | MLYRDLTLRERQVLGIIIQSFVVSATPVGSRTIARNYNLGLSDATIRNVMADLEADGFISQPHTSAGRVPTDKGYRYYVDLLMNVSGIDEQEKQMIDARFSTRSSELKGTSAEVLGAAAKVLGSISRQLGVVLPPRLSNAVFERLDIVQLASTRIMVVIAIQSLFVKTIVMELTAEISRQKIDDVVNILNERLSGLTLEEIRSTIGKRLSDCQSREGLMNSIVGAADTLFDESSILDRLYVSGTENIVDQPEFKQPQKVRNIITMIEDKFGIARLVDNALPSGAYQGRDREVAISIGTENRTDNAIDLTIVSSPYYAGKMVGKVGIMGPKRMDYEHAVRVVNYMAGCLSEALSGNN |
| 2447 | sp|B8JCT2|HRCA\_ANAD2 | MASADELDRREREILRALVQDYIHTGEPVASQPLLSRHELEWSPATVRSVMADLEALGFLEKPHASSGRIPTERGYRLFVDTMLKVRPPSVADRDRIERLAQAAPDVSSLIEGTADLLHSLSHHAGVVTTPRPQADPVRQLEFVRLRENRVLVVFVSEAGIVTNKLVQLEFAMEPAELERAAAYLNEKLHARADAAELAALRAAILTDMRADQSALHDLLQKALVLAEQSFAGTGVEKVVMEGESSFLDAPEFSDVQKARALLRGFAEKDRILRVLDRVLTAQEVQIFIGAESEFATVPDVSVVAAPYGRGDRVLGTLAVVGPTRMNYARVIPLVDLTARQISRALAALSEGG |
| 2448 | sp|Q2J323|HRCA\_RHOP2 | MAHHEPIGLIAPNTGLAQLNERSRDIFRQIVESYLATGEPVGSRNISRLISMPLSPASVRNVMADLEQLGLIYAPHTSAGRLPTELGLRFFVDALMQVGDLTEPERQSIQAQLSSVGRAQTVEAALGEALTRLSGLTRAAAVVLTAKSNVRLKHLEFVRLEPERALVILVAEDGQVENRVLALPPGVPSSALTEASNFLNARIRGRTLAEARLELETMLSQDRTELDQLTQKVISAGIASWSGGDGEDRQLIVRGHANLLEDLHAMEDLERVRRLFDDLETKRGVVDLLGRAESAEGVRIFIGSENKLFSLSGSSTIIAPYSDGAGHIVGVLGVIGPTRLNYARVIPMVDYTARIVSQMLGG |
| 2449 | sp|A3NYY3|HRCA\_BURP0 | MLDPRARTLLKTLIERYIADGQPVGSRTLSRYSGLELSPATIRNVMSDLEELGLVSSPHTSAGRVPTPRGYRLFVDTMLTVESPIDSDAVTRLVQTTLQAGEPQQRVVAAAASVLSNLSQFAGVVLTPRRSHVFKQIEFLRLSDKRILLIIVTPEGDVQNRMIATQRDYAPAQLTEASNYINAHFAGLSFDEVRRRLREEIDQLRGDMTALMHAAVTASTEEPDDEETVLISGERNLLEVADLSSDMARLRKLFDVFDQKTSLLQLLDVSSHAQGVQIFIGGESTLVPIDEMSVVTAPYEVNGKIVGTLGVIGPTRMAYNRVIPIVDITARLLSLTLSQQ |
| 2450 | sp|A4SFR7|HRCA\_CHLPM | MGSRELSLRERQVLGIIIQSYVVTAAPVGSRYIARNYSLGLSDATIRNVMADLEDEGYIHQPHTSAGRIPTDLGYRYYVDLIMKVQRIDEDEKRRMETDYGQIAMEHPGTSRDVLLSAAKVLGCISRQLSVVLSPTLSDAVFERLDMVLLSSTRMMVILSIHSLFVKTIVMELPLEVSRKMIEEVSNVINERLAGLTLSEIRRSIAHRLAGSHGDGALKDLIVRSAGSLFDESPIFERLYISGTEYIVDQPEFKQPERVRELITMIEDKFSVARLVEKSGHMSEALRPSDMDVTISIGSENSTREAEDLTIVSTPYYAGNMVGRLGILGPKRMDYEHAVRVLNYMADSLTATLTDAN |
| 2451 | sp|Q182F0|HRCA\_CLOD6 | MELNERKLNILKAIVKDYIETAEAIGSRTISKRHDLGVSAATIRNEMADLEELGYLIQPHTSAGRVPSEKGYKLYVNSLMSKSELDDNDKILIEQCMNHNINHIKELIHETSKLLSQLTNYTTVAVTKSLINQSVIKHIQLVAMNDNNILLIVVTDKGDLKKANLTTNVYLDQSKLNLISDNLTRKLLGKSITDLDDNLIAFIKYEISEYSGLIDELLNALNSNMKEEDFSLSLNGATNIFSYPEFNDVLKAKSFLNMLEKKETIADIIKSKGIQKDNLNIIIGSDNDCELAQDCSIVTATYNVDRDLVGRISFIGPTRMDYARIYSIINYMSLLINRK |
| 2452 | sp|B0US05|HSLU\_HISS2 | MSEMTPREIVSELDQHIIGQADAKRAVAIALRNRWRRMQLQEPLRHEVTPKNILMIGPTGVGKTEIARRLAKLANAPFIKVEATKFTEVGYVGKEVDSIIRDLTDSAMKLVRQTEIEKNRFRAEEMAEERVLDTLLPPAKDQWGQIEERDTNTNTRQIFRKKLREGQLDDREIEIDIAAPNIGVEIMAPPGMEEMTNQLQSMFQNLSSGQTKKRKMKIKDALKALIDDEAAKLINPEELKQKAIDAVEQNGIVFIDEIDKICKKGEYSGADVSREGVQRDLLPLVEGSTVNTKHGMVKTDHILFIASGAFQVARPSDLIPELQGRLPIRVELSALTAKDFERILTEPNASLTEQYQALMATEGVDIEFTESAVKKIAEAAFRVNEKTENIGARRLHTVMERLMDKISFDASEMSGQNVIIDGDYVTGALGDVVENEDLSHFIL |
| 2453 | sp|Q0C0L1|HSLU\_HYPNA | MKHLTPREIVAELDRHIVGQNAAKRAVAIALRNRWRRKQAPENLRGEITPKNILMIGPTGVGKTEVSRRLARLANAPFLKVEATKFTEVGYVGRDVEQIVRDLVEAAVGMIREQKRAGVDKAARDKAEERLLDALVGAEAQSSTREVFRRKLRAGELDDKEVDLDFADTNNPMQMLDLPGQGGSMSMINLGDMLGKAMGGRTRRVRTTVREAAKPLVTEEADKLVDEEQIVREAIMAVEEDGIVFLDEIDKIAARKDRGGADVSREGVQRDLLPLIEGTTVSTKRGAVKTDHILFIASGAFHVAKPSDLLPELQGRLPIRVELEPLTRDDLRRILVEPQASLIRQYEALMAAENVTLTFEDGAIDRIADMAEAVNKSIENIGARRLQTILERLLDDISFDAPDKGGETFTITASYVDEKVGSLAGNADLSKFIL |
| 2454 | sp|A6QBI2|HTPG\_SULNB | MAKHQFQTEIGQLLKLMTHSLYSNKEIFIRELISNASDALDKFNYLSLTDEKFKEENWSGKISIKLDKDDNSLTIGDNGIGMNEEDLMDNLGTIAKSGTKAFMENLTGDAKKDSNLIGQFGVGFYSVFMVAEKVDVISKKAGEEQAYMFSTDGTGEYEVKPVTKDEHGTVIYIKLKEDEKEFLDKWRVQEVVKKYSNHIAYPIILNYTEEETTGEGDEKETKTVQKSEQINEATALWTLPKSELKEEDYIEFYKTISHGDDEPLTYLHNKVEGANEFTTLFYIPKKAPMDLYRADYQPGVKLYVKRVFITDDDKELLPPYLRFVRGIIDSEDLPLNVSRELLQENRILANIKQNSVKKILGAIKKLDSEKMEIFTEQYNRVIKEGIYTDHTNKETLLGIVRYKSSSEEGMVSLDDYISRGDSEKKEIYYIVGADEKVLRNSPLLEAYKKANIEVLIMDDEEVDSIVAPMIGSYKEWTFKDITTIDAPDSKTEEEKEEISKEFKPLTDKIKEVLGDEVKEVKISTRLTESPSCVLKDASDPMAGMAAMFAQMGQEMPEIPLILEINPEHEMIKKLDKVEDESLFNDLSWILLDSAKLSEGLEPKDKGAFAHRVASLATKAL |
| 2455 | sp|Q9XWF4|IMPCT\_CAEEL | MSDEEQRIAEIESLASIFPDLLEETTDKQLVFKFDRDIGMTINLPEDYPSISPPIFELSGPYLRREQKEVLHNSLNDVYIENIGFPVIFNWISLVQDFIRDLPEEVAEPSHVADDVVTPMAEEIDDMNIRHGEVLTDRKSAFQAHLAEVRSKEDVDRVMRILKSNTKICRATHNITAYRYMTEINGKPIHHHDCVDDGEFGASSKMLELMDRMKADNVMVVVSRWYGGIHLGPDRFRHINNLTRQILSDNNYGPKKS |
| 2456 | sp|P0C056|IBPA\_ECOL6 | MRNFDLSPLYRSAIGFDRLFNHLENNQSQSNGGYPPYNVELVDENHYRIAIAVAGFAESELEITAQDNLLVVKGAHADEQKERTYLYQGIAERNFERKFQLAENIHVRGANLVNGLLYIDLERVIPEAKKPRRIEIN |
| 2457 | sp|Q84K79|IDM2L\_ARATH | MRSSSGLNGMRENNSFPDNTRNPQILEVTPLNSMPYIGPVTHASMSSNRMNDSVEKVGGPAMIFLPSDSSSEFSNLISQTKTGVALTGSAAMGKIGLTIGLVDIAESEDSYYFRVALPGVSRDEKEFSCEIEPDGKIMIKGATTTGEQTVCKHNQIFKMLTQNLCPPGHFTINFQLPGPVSNEEFNGNFGSDGVLEGVVKKVYYED |
| 2458 | sp|B4TA60|IBPB\_SALHS | MRNYDLSPLLRQWIGFDKLANALQNSGESQSFPPYNIEKSDDNHYRITLALAGFRQEDLDIQLEGTRLTVKGTPEQPENEPKWLHQGLVMQPFSLSFTLAENMEVSGATFTNGLLHIDLTRNEPETIAPQRIAINERSALNS |
| 2459 | sp|Q663X0|IBPA\_YERPS | MRNSDLAPLYRSAIGFDRLFNLLESGQNQSNGGYPPYNVELVDENNYRIAIAVAGFAEQELEITTQDNLLIVRGSHANEPAQRTYLYQGIAERNFERKFQLAEHIKIKGANLVNGLLYIDLERLVPESLKPRRIEIK |
| 2460 | sp|C4ZYW3|IBPB\_ECOBW | MRNFDLSPLMRQWIGFDKLANALQNAGESQSFPPYNIEKSDDNHYRITLALAGFRQEDLEIQLEGTRLSVKGTPEQPKEEKKWLHQGLMNQPFSLSFTLAENMEVSGATFVNGLLHIDLIRNEPEPIAAQRIAISERPALNS |
| 2461 | sp|A8A6E6|IBPB\_ECOHS | MRNFDLSPLMRQWIGFDKLANALQNAGESQSFPPYNIEKSDDNHYRITLALAGFRQEDLEIQLEGTRLSVKGTPEQPKEEKKWLHQGLMNQPFSLSFTLAENMEVSGATFVNGLLHIDLIRNEPEPIAAQRIAISERPALNS |
| 2462 | sp|P0C059|IBPB\_ECOL6 | MRNFDLSPLMRQWIGFDKLANALQNAGESQSFPPYNIEKSDDNHYRITLALAGFRQEDLEIQLEGTRLSVKGTPEQPKEEKKWLHQGLMNQPFSLSFTLAENMEVSGATFVNGLLHIDLIRNEPEPIAAQRIAISERPALNS |
| 2463 | sp|Q9SRZ6|ICDHC\_ARATH | MAFEKIKVANPIVEMDGDEMTRVIWKSIKDKLITPFVELDIKYFDLGLPHRDATDDKVTIESAEATKKYNVAIKCATITPDEGRVTEFGLKQMWRSPNGTIRNILNGTVFREPIICKNVPKLVPGWTKPICIGRHAFGDQYRATDAVIKGPGKLTMTFEGKDGKTETEVFTFTGEGGVAMAMYNTDESIRAFADASMNTAYEKKWPLYLSTKNTILKKYDGRFKDIFQEVYEASWKSKYDAAGIWYEHRLIDDMVAYALKSEGGYVWACKNYDGDVQSDFLAQGFGSLGLMTSVLVCPDGKTIEAEAAHGTVTRHFRVHQKGGETSTNSIASIFAWTRGLAHRAKLDDNAKLLDFTEKLEAACVGTVESGKMTKDLALIIHGSKLSRDTYLNTEEFIDAVAAELKERLNA |
| 2464 | sp|Q96270|LEA7\_ARATH | MASHQEQSYKAGETRGKAQEKTGEAMGTMGDKTQAAKDKTQETAQSAQQKAHETAQSAKDKTSQAAQTTQERAQESKDKTGSYMSETGEAIKNKAHDAAEYTKETAEAGKEKTSGILGQTGEQVKQMAMGATDAVKHTLGLRTDEGNKEHVSSAPSTTTTTTTRETQRK |
| 2465 | sp|P0DO18|LHR32\_CHLRE | MLANVVSRKASGLRQTPARATVAVKSVSGRRTTAAEPQTAAPVAAEDVFAYTKNLPGVTAPFEGVFDPAGFLATASIKDVRRWRESEITHGRVAMLAALGFVVGEQLQDFPLFFNWDGRVSGPAIYHFQQIGQGFWEPLLIAIGVAESYRVAVGWATPTGTGFNSLKDDYEPGDLGFDPLGLKPTDPEELKVMQTKELNNGRLAMIAIAAFVAQELVEQTEIFEHLALRFEKEAILELDDIERDLGLPVTPLPDNLKSL |
| 2466 | sp|Q9FG31|LEA46\_ARATH | MQSMKETASNIAASAKSGMDKTKATLEEKAEKMKTRDPVQKQMATQVKEDKINQAEMQKRETRQHNAAMKEAAGAGTGLGLGTATHSTTGQVGHGTGTHQMSALPGHGTGQLTDRVVEGTAVTDPIGRNTGTGRTTAHNTHVGGGGATGYGTGGGYTG |
| 2467 | sp|P94029|MT2A\_ORYSJ | MSCCGGNCGCGSGCQCGSGCGGCKMYPEMAEEVTTTQTVIMGVAPSKGHAEGLEAGAAAGAGAENGCKCGDNCTCNPCNCGK |
| 2468 | sp|Q5CD17|NAC77\_ORYSJ | MVESTTSLVKLEQDGGLFLPPGFRFHPTDAEVILSYLLQKLLNPSFTSLPIGEVDLNKCEPWDLPSKAKMGEKEWYFFSHKDMKYPTGMRTNRATKEGYWKATGKDREIFRQPAAVNTSSYGGSSNKKKQLVGMKKTLVFYMGRAPKGTKTNWVMHEFRLHANLHNHHPNLRLNPKDEWVVCKVFHKKQGDEAINNQQQQPQYAAVDQYSAETPNSGSSVVQAGDIDGGDDFFQLDDIIDPSIYFVSNSSNILSAPPNNNNAVYSVSASTTTTNTTAVSFQQQPNYYSLINKSSSSSSSNYSAPLQQHVSSWNITPGAGGAHGIGSSYYNLQQQQAAMVKALENVIAVPNFGTLLPSSNKLKGLSKSAMAGLTQQNPLGVPQYKIENYGDHYISRQ |
| 2469 | sp|Q94FL6|MY124\_ARATH | MEDTKKKKKKNINNNQDSKKKERHIVTWSQEEDVILREQITLHGTENWAIIASKFKDKSTRQCRRRWYTYLNSDFKRGGWSPEEDMLLCEAQRVFGNRWTEIAKVVSGRTDNAVKNRFTTLCKKRAKHEAMTKDSNSNTKRMLFLDGISTPRKSENETPIAKKLKRSHILDLTEISNYGRAEACVNQQIRSPFSVLARNATGIDSLEEQNQTSNVNESDGEGMFLKKDDPKVTALMQQAELLSSLAQKVNADNTEQSMENAWKVLQDFLNKGKENDLFRYGIPDIDFKIEEFKDLIEDLRSGYEDNQLSWRQPDLHDSPASSEYSSGSTIMVDQSGDKTQPFSADTQTEHKQVGEELLVPKNPDENMPISGEEKFSSPIQVTPLFRSLADGIPSPQFSESERSFLLKTLGIESSSPCPSANPSKPPPCKRVLLHSL |
| 2470 | sp|Q4PBP6|NST1\_USTMA | MAKSKLPRSTPAARAAAVPPPRLAAAAQQQHHQQQPPSTPPAPVPPTKPSVAGASTPPRSASPVSNHDTDSVALSSAKKKKKKSKSKAKDADFIDDQEYELQQAAALAQRPRSPASLAARAQAQAQLLAAASELYRRIEGDAQGIPDDDAYWTSLPAHLRTFIRNALPLGQFPPAAQAALNENANDPANRHASTQAMIAVAQQLAQAAHASQRHIQQYPPGTHPYPPLPFDASIFADLALHPDQPLPLHPHPNTANNAHPTNVNGAYGQYSSSPNPPPTQPPVEPLPPPVVLYDNFDDEIDRFDDDGVDDAHYYDDAELDEDDEVLEADAGLLRARNRVWMQEGANHALRPNGLATHPDGMRSASKNKKKKKKKKGGAGAAAGHGDDEAHEIELEVPPPKPVPNHPPPSTNVSSVARNSNPPPPSSRAAGKQPMTFNSTGKTPARPANGLPPSSNSGKRSVSSSTHGHPPAANASANNAKIWSTSSAEERERIKEFWLGLSMKDRQKLVQVEKETVLRKMKEQQKFLCSCAVCGRKRSAIEEELEVLYDAYYDELEEYANHQQRWVSSGGTIPPPPGPGPFPGSVALDASGAVIGGDPLSRTRAAHAGRDTRHTHTHTHAHTHTHTHTHTHTHTHAHQHPHPHPHGRKASLHPESSDGYDDDELDDDAEYDDDDDDADYDDEDEDDDVELEKERAREDYDKRNPVPSARRRGTNDSNDLFGLGSSLTVKGGILTVADDMLKNDGRKFLEMMEQLAERRMHREELTNAELAASDDEDDVDGPDDVDDEDLDEEDEDEEDEILTEEQRMEEGRKMFQIFAARMFEQRVLAAYRERVAQERQLQLLRELEEEDDNEKAREARRMKESQKKKDKKKAQREAKEAERLKKDQERAAAEAEVRAQQQAQRDAELKKQEEIRLKKEAERKAREDEKAKKDEERRRRQAEERERQLEVERKRREKEEKIRLERELQEKAKRDREEAQRKAKEEQQRVQRAKELKAKEEQERKAEAAQKEKEARAQAQREAKQAAAAASRGASAAQGVPSSPSTGPKAGSNKAANASTPGTPARGGKNGSVTGPPTVGLGQDQVQPRGVHSQRSAASSKHAPGTGGPNAAGGLAAAVAASSVAPAGSSSNAVGSTLPAPPQGLPPRPSTAVLTPAGSSSQTSSVSVAANAGLPRPPTNLAGGGSSSAVPPSLGFGSIALNAQSNVPMPSAKTPGSSISPKPAQSFVQPQEKQPSPPGFGAAQSPMGAVYGQHAGLDSLRSPTLSNGLQNSGMFGSNGSMSSSLQSPSLGAPGMGGMTNSLASLNLNAAPLSSPALNVGNPLISSKTPGLGMESSTPTGHNLGHMHSPTQTPFSPMSGSGSVDPMRSRTASFADSDPMSFAGIRPGSSLSQRVPTYRSGAPTPIGPIGRPKAMDAIQQHMHDEHTGAIGNGRSSSTTSGSGATSPRLPEGILGSSALGGDDDIIDPKPRRVSHTIPIGGGATGSSMGSAGSFFGGGMGGGSAVGGGFGVGSSSPWSSFSGNNPTAPGPLSPAFNGGGAAPGSIGSGLATGNFGLNQNASTPGAGSSGSGMAGGAASDPWARMSTNSWDRARFAFEQPGGNGVGAGSNGGTPSGLGGIGGSHHAHAPGSHMGHLHHQLGLSAGPGNGNGSGSGGMLGSFALGAPGSGTRNLFGAPGSNALHPGAIGSALSPTLPGARHVSGSHE |
| 2471 | sp|G2JZ42|OPUCC\_LISM4 | MKKKFIALFSVLLLTSSLFLSSCSLPGLGGSSKDTIRIGAMATTESQIVSNILKELIEHDTGLKVEIVNNLGSTIVQHQAMLNGDVDITATRYTGTDLVGPLGEEAIKDPEKALAAVKKGFEERFHQTWFDSYGFANTYVFMVRQDTAKKYNLNTVSDMRKVENELTAGVDNSWMEREGDGYKAFSKAYDIEFKKIFPMQIGLIYTALKNNQMDVALGYSTDGRIPTYNLKLLKDDKKFFPPYDASALATDEILKKHPELKTTINKLKGKISTEEMQKLNYEADGKLKEPSIVAQEFLQKNNYFEGKN |
| 2472 | sp|Q9KHT7|OPUCC\_LISMN | MKKKFIALFSVLLLTSSLFLSSCSLPGLGGSSKDTIRIGAMATTESQIVSNILKELIEHDTGLKVEIVNNLGSTIVQHQAMLNGDVDITATRYTGTDLVGPLGEEAIKDPEKALAAVKKGFEERFHQTWFDSYGFANTYVFMVRQDTAKKYNLNTVSDMRKVENELTAGVDNSWMEREGDGYKAFSKAYDIEFKKIFPMQIGLIYTALKNNQMDVALGYSTDGRIPTYNLKLLKDDKKFFPPYDASALATDEILKKHPELKTTINKLKGKISTEEMQKLNYEADGKLKEPSIVAQEFLQKNNYFEGKN |
| 2473 | sp|Q63788|P85B\_RAT | MAGAEGFQYRAVYPFRRERPEDLELLPGDLLVVSRVALQALGVADGGERCPHNVGWMPGFNERTRQRGDFPGTYVEFLGPVALARPGPRPRGPRPLPARPLDGPSESGHTLASLAEQFSPPESAPPILVKLIEAIEQAELDSEFYSRPELPAPRTDWSLSDLEQWDRTTLYDAVKGFLLALPAAVVTPEAASEAYRAMREVTGPVGLVLEPPTLPLHQALTLRFLLQHLGRVARRAPSPATAVHALASAFGPLLLRAPPPGGEGDGSEPAPDFPVLLLERLVQEHVDEQDTAPPALPPKPSKVKPAPTALANGGSTPSLQDAEWYWGDISREEVNERLRDTPDGTFLVRDASSKIQGEYTLTLRKGGNNKLIKVFHRDGHYGFSEPLTFCSVVELISHYRHESLAQYNAKLDTRLLYPVSKYQQDQVVKEDSVEAVGAQLKVYHQQYQDKSREYDQLYEEYTRTSQELQMKRTAIEAFNETILIFEEQGQTQEKCSKEYLERFRREGNEKEMQRILLNSERLKSRIAEIHESRTKLEQDLRAQASDNREIDKRMNSLKPDLMQLRKIRDQYLVWLTQKGARQRKINEWLGIKNETEDQYSLMEDEDALPHHEERTWYVGKINRTQAEEMLSAKRDGTFLIRESSQRGCYACSVVVDGDTKHCVIYRTATGFGFAEPYNLYGSLKELVLHYQHASLVQHNDALTVTLAHPVRAPGPGPPPAAR |
| 2474 | sp|P80242|OHRB\_BACSU | MALFTAKVTARGGRAGHITSDDGVLDFDIVMPNAKKEGQTGTNPEQLFAAGYAACFGGALEHVAKEQNIEIDSEIEGQVSLMKDESDGGFKIGVTLVVNTKDLDREKAQELVNAAHEFCPYSKATRGNVDVKLELK |
| 2475 | sp|Q39963|PDX1\_HEVBR | MAGTGVVAVYGNGAITETKKSPFSVKVGLAQMLRGGVIMDVVNPEQARIAEEAGACAVMALERVPADIRAQGGVARMSDPQLIKEIKQSVTIPVMAKARIGHFVEAQILEAIGIDYVDESEVLTPADEENHINKHNFRIPFVCGCRNLGEALRRIREGAAMIRTKGEAGTGNVIEAVRHVRSVMGDIRLLRNMDDDEVFTFAKKIAAPYDLVMQTKQLGRLPVVQFAAGGVATPADAALMMQLGCDGVFVGSGVFKSGDPARRARAIVQAVTHYSDPDMLAEVSCGLGEAMVGINLNDKKVERFANRSE |
| 2476 | sp|Q8FEY4|PAST\_ECOL6 | MILFVGFLLMEIVMPQISRTALVPYSAEQMYQLVNDVQSYPQFLPGCTGSRILESTPGQMTAAVDVSKAGISKTFTTRNQLTSNQSILMSLVDGPFKKLIGGWKFTPLSQDACRIEFHLDFEFTNKLIELAFGRVFKELAANMVQAFTVRAKEVYSAR |
| 2477 | sp|Q47490|PHOE\_ENTCL | MKKSTLALVVMGVVASASVHAAEVYNKNGNKLDVYGKVKAMHYISDDDTKDGDQTYVRFGFKGETQINDQLTGYGRWEAEFAGNKAESDSSQKTRLAFAGLKLKDFGSLDYGRNLGALYDVEAWTDMFPEFGGDSSAQTDNFMTKRASGLATYRNTDFFGAIDGLDMTLQYQGKNENRDAKKQNGDGFGTSLTYDFGGTDFAVSGAYTNSDRTNAQNLLARAQGQKAEAWATGLKYDANDIYLAAMYSETRNMTPISGGFANKAQNFEVVAQYQFDFGLRPSLGYVQSKGKDNEGIGDEDLVKYIDVGATYYFNKNMSAFVDYKINQIDDDNKLGVSSDDIVAVGMTYQF |
| 2478 | sp|Q826F5|GRPE2\_STRAW | MPTRPQEPDRAASDPVEPVPEGAGRPPRGDLPQPGPPARPEATNGEPGPDAAGPAPAEDEYTTAIQELEDRWRRTLADLDNLRKRHARELERERAVERSRTAAAFLPVLDNLELALTHAGADPGAIVEGIRAVRDQAVNVLELLGYPRHAETGVAFDPARHEVVGVVQDPDAPPGTVVEVLRPGYGDGERQLRPAAVTVTKRE |
| 2479 | sp|B0V5U3|GRPE\_ACIBY | MANEQNEQAQDIQNEQVEQSNEQTQAEGVEQANDVTVESLQAQITKLEENLKLEKARTANAVYEAQKSVERIQRESEKHKETVLEKFAKELLDSVDNLERAIQAAGDEETPVLEGVKLTLKSLLTTLEKFGVVEADTQNGFNADLHQAVGIDPNAKANEIGTVLQKGYTLNGRLLRPAMVMVGQ |
| 2480 | sp|Q8K9V9|GRPE2\_BUCAP | MDNQEKKTNYQNTDKENDLEKNKEKKNDESIFQNKKMNEIREKIFKNKKEINNLKLRHLANIENIKKNTEKKIKKIKNAEIENFFKQIIPIINNLEDILTISTKLNLNDEPSIQGIELTLKSLLSILIKFGVKIEGKKNEIFNPKIHDVILTESSNTIEPNYIISVKKKGFIFKKTILRKAAVVISKT |
| 2481 | sp|Q661A2|GRPE\_BORBP | MEKKETKNDAEKNNKQDNKSTKSQKKENLNLVNSDKKITELENEISNLKDLYLRKQAEFENFRKRLEKEKDNFVKFANETIMKDVVNFLDNLERAINSSRKSKDFDNLLTGISMIENEILSIFDKKYNLKKFGENGENFDPSRHEAISIEEKEDLKNPEIVEVYQKGYCYNDRILRTAKVKVAQSKN |
| 2482 | sp|O66745|GRPE\_AQUAE | MEKNQKEIEKELEELRKREKELEEKIQKLETIAKNSNLRVAELQREIDYLKERYRRDLEEQRKFCYEKFAYDLLEVMDNFERALEYGRQAQDVKSILLGIEMIYSEMKKIFEKYGIREIPVEGKEFDPYVAEAVEKVETDQYPPNTVVKVIRKGYYIHDKVLRPARVAVAVPPQEEEGEEIT |
| 2483 | sp|Q6M259|GRPE\_CORGL | MTTPNGMPDNPGDPENTDPEATSADRAEQAAEEAAARQAEESPFGQASEEEISPELEAEINDLLSDVDPDLDGDGEVSAVETQLAERTEDLQRVTAEYANYRRRTERERQGIIDTARAGVVTQLLPLLDDLDLAEQHGDLNEGPLKSLSDKLINILGGLKVESFGEIGEAFDPEIHEAVQDLSQGDVKVLGTVLRKGYRLGDRVIRTAMVLIGDPEES |
| 2484 | sp|B7HCU1|GRPE\_BACC4 | MEERNEQVVEEVKEAQVEEAVTPENSEETVEEKSEAALLQEKVDELQAKLTETEGRTLRLQADFENYKRRVQMDKQAAEKYRAQSLVSDILPALDNFERAMQVEATDEQTKSLLQGMEMVHRQLLEALTKEGVEVIEAVGKQFDPNEHQAIMQVEDSEFESNAVVEEFQKGYKLKDRVIRPSMVKVNQ |
| 2485 | sp|Q89AN1|GRPE1\_BUCBP | MNIDNDLLSKNKEAKVVSENSTVEINDVTNSDSKNTDNDFQTEELNNFEKIFLNLNSDLLNQQLLVKNNLKLYKIRAEKEINRAYKFSLKSFISSLFPVIDSMEYALNLFKKDDKILCLIFNELDNVSQSLMNLLVKFGVTSIKDINIAFNPDIHQAITTQVSKDIKNNYVISIMQKGYLLYDRLLRPAMVIVSKNDI |
| 2486 | sp|A7GXU2|GRPE\_CAMC5 | MSEEIKEQNVQDAQNENLAPDSVNFDGLSDAAKVAELENKLNELTDKYYRANAEFENIKKRFEKEKTDIASYANEKFARDLLPVIDALEIAANFDPDDDEFAKNVKEGVLITINQFKKCFEKHGMSEIDTSGEFDPNVHNAVLRVDSEDHTSGQIVQVMQKGYIINGRVLRPAMVSVAN |
| 2487 | sp|Q9HV42|GRPE\_PSEAE | MADEQQTLDQQTPEQPTGAAEDLTARVQELEEQLAAAQDQALRMVADLQNVRRRAEQDVEKAHKFALEKFAGDLLAVVDTLERGLEMSDPNDEAIKPMREGMELTLKMFDDTLRRYQVEALNPEGEPFNPEQHQAMAMQESASAEPGSVLKVFQKGYLLNGRLLRPAMVVVSKAPAETPPSIDEQA |
| 2488 | sp|B2RLI9|GRPE\_PORG3 | MNKQKNNRERTPQPEQDTERDEQLTNSHENDIDSAPAAEENDKVADPVEELTAQLAALNDTHLRLMAEYDNYRKRTLKEKSELIRNGGEKVLVDLLPVIDDFERALSNLGDMSEPAAIKGGVELIYSKFMDYLQKQGVKKIETADLPFDADLCDAVAMIPAPSAEQKGKVIDCVKTGYTLNDKVIRHAHVVVGE |
| 2489 | sp|Q88DU1|GRPE\_PSEPK | MADEQLNEKDLNVEETGAGNAADTRVLELEEQLAAAKDQALRAVADLQNVRRRAEQDVEKAHKFALEKFSSDLLPVIDSLELALAHSSADDEHVKQIREGVELTLKMFQDTLKRYNLEAVDPHGQPFNPEHHQAMAMQENAEVEPNSVLNVFQKGYLLNGRLLRPAMVVVSKAPSAAQPSINEKA |
| 2490 | sp|G2K047|GRPE\_LISM4 | MSEKKNKKERLADEIEQEELNILDEAEEAVEEEATADTLTEEQAKILELENKLDEVENRYLRMQADFENVKKRHIADRDASQKYRSQSLAQDLLPALDSFEKALATTSDQEEVKQILKGMEMVYNQILIAFEKEGIEVIPAVGEQFDPNFHQAVMQDSDENAGSNEITAELQKGYKLKDRVIRPSMVKVNQ |
| 2491 | sp|Q1IF60|GRPE\_PSEE4 | MADEQLDEKNLNSEEAGAVNGDARVQELEEQLAAAKDQSLRAAADLQNIRRRAEQDVEKAHKFALEKFAGDLLPIIDSLERGLELSNADDDTIKPMREGIELTLKMFHDTLKRYNLEALEPHGEPFNAEHHQAMAMQESADVEPNSVLKVFQKGYLLNGRLLRPAMVVVSKSPAPAQPSIDEKA |
| 2492 | sp|Q3MG83|GRPE\_TRIV2 | MIDENKQVNHTSQQLGESTEVKQAIMSESPAQINNNESTNEVTESVAIPTNVVGDTTATEDNGFTATQIQEANTAALAELTQQINSLKTQLDERSTQYMRIAADFENYRKRTQKEKEELDLQVKRNTILELLPIVDNFERARSHLKPQTESEMTIHKSYQGVYKQLVDSLKRLGVSPMRPEGQEFDPNLHEAVMREPTDEHPEGTVLEELVRGYYLGDRVLRHSMVKVAAPKEDTLPAQENQSSPADS |
| 2493 | sp|Q32CX5|GRPE\_SHIDS | MSSKEQKTPEGQAPEEIIMDQHEEIEAVEPEASAEQVDPRDEKIANLEAQLAEAQTRERDGILRVKAEMENLRRRTELDIEKAHKFALEKFINELLPVIDSLDRALEVADKANPDMSAMVEGIELTLKSMLDVVRKFGVEVIAETNVPLDPNVHQAIAMVESDDVAPGNVLGIMQKGYTLNGRTIRAAMVTVAKAKA |
| 2494 | sp|Q04EE0|GRPE\_OENOB | MVEKKKSQAEKNNQSATEEEIEKAVKGSKRDSNAADEKNSASAAASSSAVSDAEPAVDYEDKFYRAEAEMQNMQQRFNKERASILKYEGQDLAKSILPALDNLERALSVSAGDPASKKIQDGVELTYKSLSNALTDNGIVKIGRAGDQFDPNLHNAIQKTPIDDPEKQKEGTIAVVLQKGYQLHDRVLRPAMVSVYTK |
| 2495 | sp|A8F851|GRPE\_PSELT | MNENEKPQITEQKENQSALDQLIKEKHELLEHLRQLKAQFENYKRDSLREKEQVLKNANEYFLVKLIPVLDDMERAFEEVRRSKSYKNFYSGMEIIYKKLWKILNDEGLFKIEPKEKFDPFEHEAVERVETDEKEEYSILKILENGYKFHKKIVKPVKVQVAVRPRGENGAKTE |
| 2496 | sp|A1VMG3|GRPE\_POLNA | MSENKQPEQNQDLTGEPSPEELEAAQAADEFDAMNAASEAQAQLAVLQAKNTELSDNYLRAKAEAENARRRAEDEISKARKFALESFAESLLPVLDSLEAGLNMKEATLEQLREGSQATLKQLKAALERNKVIEINPVAGSKFDPHQHQAISMVPAAQEANTVVAVLQKGYLIAERVLRPALVTVAAPQ |
| 2497 | sp|B7L8Y4|HCHA\_ECO55 | MTVQTSKNPQVDIAEDNAFFPSEYSLSQYTSPVSDLDGVDYPKPYRGKHKILVIAADERYLPTDNGKLFSTGNHPIETLLPLYHLHAAGFEFEVATISGLMTKFEYWAMPHKDEKVMPFFEQHKSLFRNPKKLADVVASLNADSEYAAIFVPGGHGTLIGLPESQDVAAALQWAIKNDRFVISLCHGPAAFLALRHGDNPLNGYSICAFPDAADKQTPEIGYMPGHLTWYFGEELKKMGMNIINDDITGRVHKDRKLLTGDSPFAANALGKLAAQEMLAAYAG |
| 2498 | sp|A1ACB2|HCHA\_ECOK1 | MTVQKSKNPQVDIAEDNAFFPSEYSLSQYTSPVSDLDGVDYPKPYRGKHKILVIAADERYLPTDNGKLFSTGNHPIETLLPLYHLHAAGFEFEVATISGLMTKFEYWAMPHKDEKVMPFFEQHKSLFRNPKKLADVVASLNADSEYAAIFVPGGHGALIGLPESEDVAAALQWAIENDRFVISLCHGPAAFLALRHGDNPLNGYSICAFPDAADKQTPEIGYMPGHLTWYFGEELKKMGMNIINDDITGRVHKDRKVLTGDSPFAANALGKLAAQEMLAAYAG |
| 2499 | sp|Q165Q6|HFQ\_ROSDO | MASDRQNLQDAFLNHVRKTKVPVTIFLINGVKLQGVITWFDNFCVLLRRDGQSQLVYKHAISTIMPSQPISLYEGEDAS |
| 2500 | sp|B2TWL8|HCHA\_SHIB3 | MTVQTSKNPQVDIAEDNAFFPSEYSLSQYTSPVSDLDGVDYPKPYRGKHKILVIAADERYLPTDNGKLFSTGNHPIETLLPLYHLHAAGFEFEVATISGLMTKFEYWAMPHKDEKVMPFFEQHKSLFRNPKKLADVVASLNADSEYAAIFVPGGHGALIGLPESQDVAAALQWAIKNDRFVISLCHGPAAFLALRHGDNPLNGYSICAFPDAADKQTPEIGYMPGHLTWYFGEELKKMGMNIINDDITGRVHKDRKVLTGDSPFAANALGKLAAQEMLAAYAG |
| 2501 | sp|Q48P02|HFQ\_PSE14 | MSKGHSLQDPYLNTLRKEKVGVSIYLVNGIKLQGTIESFDQFVILLKNTVSQMVYKHAISTVVPVRPIRLPSATDADGADAEPGNA |
| 2502 | sp|Q67NL2|HFQ\_SYMTH | MTKASASLQDGFLNLLRRENIPATIYLVNGYQLKGYIRGFDNFTVAVEVDGRVQLVYKHALSTITPARPLPVSVSQIMRAGEGQEVEGEE |
| 2503 | sp|B8IDE7|HFQ\_METNO | MAGERAQNLQDTFLNHVRKNKIPLTIFLVNGVKLQGVVTWFDNFCVLLRRDGHSQLVYKHAISTIMPGHPVQLFEQGEEGAEKG |
| 2504 | sp|Q7MH02|HFQ\_VIBVY | MAKGQSLQDPFLNALRRERIPVSIYLVNGIKLQGQIESFDQFVILLKNTVNQMVYKHAISTVVPARPVSHHSGERGSDRPSEKSED |
| 2505 | sp|A4YUP3|HFQ\_BRASO | MAADRAQNLQDTFLNHVRKTKTPLTIFLVNGVKLQGIVTWFDNFCLLLRRDGHSQLVYKHAISTIMPGAPIQLFEGGEDASA |
| 2506 | sp|A4JEN5|HFQ\_BURVG | MSNKGQLLQDPFLNALRKEHVPVSIYLVNGIKLQGNIESFDQYVVLLRNTVTQMVYKHAISTVVPARPVNFHPDAEASS |
| 2507 | sp|B6EMQ7|HFQ\_ALISL | MAKGQSLQDPFLNALRCERIPVSIYLVNGIKLQGQIESFDQFVILLKNTVNQMVYKHAISTVVPARAVSHHTASDRPQGERPQETTEE |
| 2508 | sp|Q27975|HS71A\_BOVIN | MAKNMAIGIDLGTTYSCVGVFQHGKVEIIANDQGNRTTPSYVAFTDTERLIGDAAKNQVALNPQNTVFDAKRLIGRKFGDPVVQSDMKHWPFRVINDGDKPKVQVSYKGETKAFYPEEISSMVLTKMKEIAEAYLGHPVTNAVITVPAYFNDSQRQATKDAGVIAGLNVLRIINEPTAAAIAYGLDRTGKGERNVLIFDLGGGTFDVSILTIDDGIFEVKATAGDTHLGGEDFDNRLVNHFVEEFKRKHKKDISQNKRAVRRLRTACERAKRTLSSSTQASLEIDSLFEGIDFYTSITRARFEELCSDLFRSTLEPVEKALRDAKLDKAQIHDLVLVGGSTRIPKVQKLLQDFFNGRDLNKSINPDEAVAYGAAVQAAILMGDKSENVQDLLLLDVAPLSLGLETAGGVMTALIKRNSTIPTKQTQIFTTYSDNQPGVLIQVYEGERAMTRDNNLLGRFELSGIPPAPRGVPQIEVTFDIDANGILNVTATDKSTGKANKITITNDKGRLSKEEIERMVQEAEKYKAEDEVQRERVSAKNALESYAFNMKSAVEDEGLKGKISEADKKKVLDKCQEVISWLDANTLAEKDEFEHKRKELEQVCNPIISRLYQGAGGPGAGGFGAQGPKGGSGSGPTIEEVD |
| 2509 | sp|A4WWS0|HSLU\_RHOS5 | MTDLTPREIVSELDRFIIGQKDAKRAVAVALRNRWRRKQLSDDIRDEVYPKNILMIGPTGVGKTEISRRLARLAKAPFLKVEATKFTEVGYVGRDVDSIIRDLVDAAIVETRARMREDVKSRAVKAAEDRVIEAIAGRDAREQTREMFRGKLKRGELDATVIEVEVADTSNPMQMLDPTGQGQMGMMNLGEIFGKAFGGRTTRRKMTVAESHDILMNEEADKLLDDEVVKATALEAVQENGIVFIDEIDKVCARSDMRGADVSREGVQRDLLPLIEGTTVSTKYGPVKTDHILFIASGAFHIAKPSDLLPELQGRLPIRVELRALTEEDFVRILSETDNALTRQYKALMKTEKVGITFTEEGIKALASIAAEVNRSVENIGARRLYTVMERVFEELSFHAPDRSGEEVTVDAAYVEKNLGELARSTDLSRYVL |
| 2510 | sp|Q7CQT0|HSPQ\_SALTY | MIASKFGIGQQVRHSLLGYLGVVVDIDPEYSLDEPSPDELAVNDELRAAPWYHVVMEDDDGQPVHTYLAEAQLRSEMRDEHPEQPSMDELARTIRKQLQAPRLRN |
| 2511 | sp|Q2FZ29|HSLV\_STAA8 | MSNTTLHATTIYAVRHNGKAAMAGDGQVTLGQQVIMKQTARKVRRLYEGKVLAGFAGSVADAFTLFEKFETKLQQFSGNLERAAVELAQEWRGDKQLRQLEAMLIVMDKDAILVVSGTGEVIAPDDDLIAIGSGGNYALSAGRALKRHASHLSAEEMAYESLKVAADICVFTNDNIVVETL |
| 2512 | sp|P41153|HSF8\_SOLPE | MEPNSSGSGKAAVGDGGGGGAPMLQPAPAPAPMPSANAPPPFLVKTYDMVDDPSTDKIVSWSPTNNSFVVWDPPEFAKDLLPKYFKHNNFSSFVRQLNTYGFRKVDPDRWEFANEGFLRGQKHLLKSISRRKPAHGHAQQQQQPHGHAQQQMQPPGHSASVGACVEVGKFGLEEEVERLKRDKNVLMQELVRLRQQQQSTDNQLQGMVQRLQGMELRQQQMMSFLAKAVNSPGFLAQFVQQQNESNKRIAEGSKKRRIKQDIESQDPSVTPADGQIVKYQPGINEAAKAMLRELSKLDSSPRLENFSNSPESFLIGDGSPQSNASSGRVSGVTLQEVPPTSGKPLLNTASAIAGQSLLPATSEMQSSHLGTCSEIINNQLSNIIPLVGGEDLHPGSLSASDMIMPELSQLQGILPENNTDVIGCDSFMDTIAVEGKMGLDIGSLSPGADIDWQSGLLDEIQEFPSVGDPFWEKFLQSPSSPDAAMDDDISNTSETKPQINGWDKTQNMEHLTEQMGATNIKQQKHMI |
| 2513 | sp|O24933|HRCA\_HELPY | MLRRIKVGSNLNKKESLLDAFVKTYLQILEPISSKRLKELADLKISCATIRNYFQILSKEGMLYQAHSSGARLPTFKAFENYWQKSLRFETLKVNEKRLKSASENFGLFTLLKKPSLERLERVIECEKRFLILDFLAFSCALGYSVKMEKFLLELVGRSVKEVRSIAASFNALSLARQLERLEYSNTQITRFNLMGLKTLLNSPLFFDILGGKVLERLSKGLHFIEPDCMLVTRPVEFQNKRMQLLCVGKLECDYEGFFQTISEEE |
| 2514 | sp|Q9CCN2|HRCA\_MYCLE | MGNADERRFEVLRAIVADFVATKEPIGSRALVERHNLGVSSATIRNDMAVLEAEGYITQPHTSSGRVPTEKGYREFVDRLEDVKPLSAAERRAIQSFLESGVDLDDVLRRAVRLLAQLTCQVAVVQYPTLSTSTVRHLEVIALSPARLLMVVITESGRVDQRIAELGDVIDDYQLSQLREMLSQAMGGKKLSAASAAVADLVGRFRGTGGLANAVGRSANVLLESLVEHTEERLLLGGTANLTRNSADFGGSLRSILEALEEQVVVLRLLAAQQEAGKVTVRIGHETAAEQIMGTSMVSTAYGTSGTVYGGMGVLGPTRMDYPGTIASVAAVALYIGEVLGAR |
| 2515 | sp|Q3SW79|HRCA\_NITWN | MAHHDPIGLIAPNAGLAQLNERSRDIFRQIVESYLATGEPVGSRNISRLIAVPLSPASVRNVMSDLEQLGLIYAPHTSAGRLPTELGLRFFVDALMQVGDLTEPERQSIQSQLASVGKAQSVEAALEEALTRLSGLTRTAAVVLTAKSNVRLKHIEFVRLEPDKALVVLVAEDGQVENRVLTLPSGVPASALTEASNFLNARIRGRTLAEARLELETALAQSKAELDQLTQKIVAAGIASWSGGDSDDRQLIVRGHANLLEDLHAMEDLERVRLLFDDLETKREVIDLLGRAERADGVRIFIGSENKLFSLSGSSTIIAPYSDGAGHIVGVLGVIGPTRLNYARVIPMVDYAARIVSQMLGR |
| 2516 | sp|Q1CIC7|HTPX\_YERPN | MMRIALFLLTNLAVMLVFGLVLSLTGIQSSSVQGLMIMAGLFGFGGAFVSLLMSKWMALRSVGGEVIERPRNETEYWLLETVRRQSQQVGIAMPQVAIYQAPDINAFATGARRDASLVAVSTGLLQNMSRDEAEAVIAHEISHVANGDMVTMTLIQGVVNTFVIFISRLIAQIAAGFLSGDRDGESNSPGNPMVYFAVSMVLELVFGILASIITMWFSRHREFHADAGSAKLVGREKMIAALQRLKTSYEPQEAGSMMAFCINGKSKTFSELFMSHPPLDKRIEALRSGQYLK |
| 2517 | sp|Q5YZX1|HRCA\_NOCFA | MGPMSSSTEDRRFEVLRAIVADYVATKEPIGSKTLVERHNLGVSSATVRNDMAVLEAEGYITQPHTSSGRIPTDKGYRQFVDRISEVKPLSAAERRAILQFLESGVDLDDVLRRGVRLLAQLTRQVAVVQYPTVSASTVRHIEVVALNPARLLLVVITDTGRVDQRIVELGAVVDDDDLSALRALLGAAMDGKRLAAASAAVAELPESAPQQLRDVLIRVSTVLVETLVEHPEERLVLGGTANLTRNAADFGLPGSLRQVLEALEEQVVVLKLLAAAQQPGTVTVRIGEETQVEEMRSASVVTTGYGVSGSVLGGMGVLGPTRMDYPGTIASVATVARYIGEVLAER |
| 2518 | sp|B9IY83|HRCA\_BACCQ | MLTERQLLILQTIIDDFIGSAQPVGSRTLAKKDEITFSSATIRNEMADLEELGFIEKTHSSSGRVPSEKGYRFYVDHLLAPQNLPNDEIVQIKDLFAERIFEAEKIAQQSAQILSELTNYTAIVLGPKLSTNKLKNVQIVPLDRQTAVAIIVTDTGHVQSKTITVPESVDLSDLEKMVNILNEKLSGVPMSELHNKIFKEIVTVLRGYVHNYDSAIKILDGTFQVPLSEKIYFGGKANMLSQPEFHDIQKVRSLLTMIDNEAEFYDILRHKQVGIQVKIGRENSATAMEDCSLISATYSIGEEQLGTIAILGPTRMQYSRVISLLQLFTRQITDGLKK |
| 2519 | sp|P30219|HS30D\_XENLA | MFPLSLLQPSHSPLCPCSQSALTLWPATRLIFGQLEDDILSMRNDLERRMQRVNEACRLLSQDTEMRRITDQKQQSRSPESEGTSPNSGKVGKDHFELMLNVRDFSPHELTVKTQQRRVIITGKHERKSDTEDGNYFHEYREWKREAELPEGVNPEQVVCSLFKDGHLHIQAPRLALPPAPETPIPISMDTAPRDAQELPPDAQTSNAEGEQQMD |
| 2520 | sp|Q9W625|IMPCT\_XENLA | MADTEEENVQRQIDEVEALTSIYGDEWCVIDEAERIFCITISDSSNKPTWTLCLQVILPPDYPVASPPLYQLNAPWLRGEDRLTLSNCLEEMYLQNLGENILYQWVEKIREFLVEKSQTSDPGPSLKSTSEETDVGDDCEVSTDELTESFKNSMIFGMNYSSGVEEIPPIVHGETISDRRSTFQAHLAPVVSPYQVKLILNKLYENKKIATATHNIYAYRIYIKERNSFIQDCEDDGETAAGKRMLHLMQILDARDVMVVVSRWYGGILLGPDRFKHINNCARNVLMEHNYCSTVEESSKQTSKSKKSSQRK |
| 2521 | sp|B7UMF4|IBPA\_ECO27 | MRNFDLSPLYRSAIGFDRLFNHLENNQSQSNGGYPPYNVELVDENHYRIAIAVAGFAESELEITAQDNLLVVKGAHADEQKERTYLYQGIAERNFERKFQLAENIHVRGANLVNGLLYIDLERVIPEAKKPRRIEIN |
| 2522 | sp|Q57SI1|IRAP\_SALCH | MKNLIAELLLKLAQKEEESKELVAQVEALEIIVTAMLRNMAQNEQEMLIRQVEGALEGVKPDASVPDHDTELLRQYVKKLLRHPRH |
| 2523 | sp|B7MML7|IRAD\_ECO45 | MMRQSRQAVLPEISGNKTSSLRKSICSDLLTLFNSPHSALPSLLVSGMPEWQVHNQSDKHLQSWYCRQLRSALLFHEPRIAALQVNLKEAYSHTLAISLEIMLYHDDEPLTFDLVWDNGGWRSATLENVS |
| 2524 | sp|B7NJC0|IRAP\_ECO7I | MKNLIAELLFKLAQKEEESKELCAQVEALEIIVTAMLRNMAQNDQQRLIDQVEGALYEVKPDASIPDDDTELLRNYVKKLLKHPRQ |
| 2525 | sp|Q5PGA0|IRAM\_SALPA | MEWKVVDTVISPSTGVSFSCIHSLKNLRLTLWYQADVYMPPGSIIIPFNKGVLINDKLYPVTVYNVTRFNPVLWKSLKENSHCPGNCNPKPEACSYPFECLVSVCPFGLTRNIQIDNKKV |
| 2526 | sp|A1A854|IRAP\_ECOK1 | MKNLIAELLFKLAQKEEESKELCAQVEALEIIVTAMLRNMAQNDQQRLIDQVEGALYEVKPDASIPDDDTELLRDYVKKLLRHPRQ |
| 2527 | sp|Q8DK20|ISIA\_THEEB | MAIASESPTTVTSAGLQTYGQTNVKYDWWAGNARFVNLSGLFIAAHVAQAALSVFWAGAFTLYEISQYKPDLPMGEQGLILLPHLATLGFGIGEGGKVVDLYPYFVIGAVHLISSAVLGAGALFHTFRAPHDLSTATGRARRFHFRWDDPKQLGIILGHHLLFLGFGALLLVLKATIWGGLYDANLQTVRLITQPTLDPFVIYGYQTHFASINSLEDLVGGHIYIAILLIAGGIWHILVPPLTWARKLLMFNAEAILSYSLGGIALAGFVAAYFCAVNTLAYPVEFYGPPLEVKLGIAPYFADTIELPLGQHTSRAWLANAHFFLAFFFLQGHLWHALRAMGFNFKQLETFLNPAIEN |
| 2528 | sp|Q0TKQ9|IRAP\_ECOL5 | MKNLIAELLFKLAQKEEESKELCAQVEALEIIVTAMLRNMAQNDQQRLIDQVEGALYEVKPDASIPDDDTELLRDYVKKLLRHPRQ |
| 2529 | sp|A5IW27|LDH2\_STAA9 | MKTFGKKVVLIGDGSVGSSYAFAMVTQGVADEFVIIDIAKDKVKADVQDLNHGTVHSPSPVDVKAGEYEDCKDADLVVITAGAPQKPGETRLQLVEKNTKIMKSIVKSVMDSGFDGYFLIAANPVDILTRFVKEYTGLPAERVIGSGTVLDSARLQYLISQELGVAPSSVDASIIGEHGDTELAVWSQANVAGISVYDTLKEQTGSEAKAEEIYVNTRDAAYEIIQAKGSTYYGIALALMRISKAILNNENNVLNVSIQLDGQYGGHKGVYLGVPTLVNQHGAVKIYEMPLSAEEQALFDKSVKILEDTFDSIKYLLED |
| 2530 | sp|Q9ZJL3|LON\_HELPJ | MTEDFPKILPLLVEEDTFLYPFMIAPIFLQNNASIKAVAYAKNNKSLVFIACQKDKLNDNEAPYYDVGVIGSVMREANMPNGRVKLLFNGIAKGRILEPAKENEQGFLEAQISPIEYLEYDKENIQAIVEVLKEKVITLANVSSLFPPDLIKALEDNDDPNRIADLIAAALHLKKDQAYFLFANNNTEQRLLDLIDIVIEETKTQKLQKEIKSKVHQKMEQTNKEYFLKEQLKQIQKELGTDKQRDEDLNQYYQKLESIKPFLKEEAFKEIKKQIDRLSRTHADSSDSATLQNYVETMLDVPFGQYEKKALDIKHVKEQLDNDHYSLKRPKERIVEYFATMQLLEMRHKKKPEKKDKTKGTILCFYGPPGVGKTSLANSIAKAIERPLVRIALGGLEDVNELRGHRRTYIGSMPGRIVQGLIEAKKMNPVMVLDEIDKVDRSVRGDPASALLEILDPEQNIAFRDHYANFSIDLSQVIFIATANNIDRIPAPLRDRMEFISVSSYTPSEKEEIAKNYLIPQELEKHALKPSEVDISHECLKLIIEKYTREAGVRDLRRQIATIMRKAALKYLEDNPHKKGRTKKSEDKDKKGGNEENEKRGESKDFCVSITPDNLKEYLERMVFEIDPIDEENKIGIVNGLAWTPVGGDVLKIEAVKIRGKGELKLTGSLGDVMKESAIIAFSVVKVLLDNETLKVPKIPSETDAENKKKKKVLKVYNAYDLHLHVPEGATPKDGPSAGIAMASVMASILCDRAIRSEVAMTGELTLSGEVLPIGGLKEKLIAAFKAGIKTALIPVKNYERDLDEIPTEVRENLNIVAVKNIAEVLEKTLL |
| 2531 | sp|Q3JBB6|LON\_NITOC | MENNAYPTLPLKNTVLFPHLVLPLSVGRAGSIAAVEAALSSEDKLIAVFPQKDPRTDEPAADDLFRFGTVGIIKKMVRSEDTVQILVQGIERVEQLEMVQKQPYLSLKIATLSEPSDTGTEIEALHRTVIELAGKMIELVQPQIQVGIHHIISDVEKPLHQIYLLTSILSLDFDKEKELLAAATQVEALQLMHRYLNHEVQVLEVRQKITSTAQTEIDKKQREYVLRQQLEAIQEELGETNPEQAEIKELRQRMEETELPELVRKEVEKEITRLERMPSAAPDYQLTRGYVELALELPWNKTTEDRLDLKRAREILDEDHFDLEDVKERIIEHLAVMKLNPEAKSPILCFVGPPGVGKTSVGQSMARALGRKFERMSLGGLHDESELRGHRRTYIGAMPGRIIRAIRRTGYQNPLLMLDEIDKLGRDFRGDPAAALLEILDPAQNAEFHDNYLDLPFDLSKIFFVTTANTLDTIPRPLLDRMEILRLPGYSDEEKQHIARRYLIGRQIREAGLSEIQLSIPDETLSYLIRRYTREAGVRELERMLGRIARKVATQVATGQTQPVTVTPQDLVELLGPERFFAEEMRQQLAPGVAAGLAWTEAGGDVLYVEAALLPEGKGMTLTGQLGSIMQESAKAAQSYLWSRAEELNIDQKTIRESGVHIHVPAGAIPKDGPSAGVTMASALTSAYAHQPVRSDTAMTGEITLSGLVLPVGGIKEKVLAAHRSGIQRIILPKENEKDLREIPEHVRQSIQFILARRIEEVLAEAIPDLNR |
| 2532 | sp|P0C113|LON\_BRUAB | MTGIEQKTPVGGSETGGADGLYAVLPLRDIVVFPHMIVPLFVGREKSIRALEEVMGVDKQILLATQKNAADDDPAPDAIYEIGTIANVLQLLKLPDGTVKVLVEGTARAKISKFTDREDYHEAYAAALQEPEEDAVEIEALARSVVPDFENYVKLNKKISPEVVGAASQIDDYSKLADTVASHLAIKIPEKQEMLSVLSVRERLEKALSFMEAEISVLQVEKRIRSRVKRQMEKTQREYYLNEQMKAIQKELGDSEDGRDEVAEIEERITKTKLSKEAREKALAELKKLRSMSPMSAEATVVRNYLDWLLSIPWGKKSKVKQDLNFAQEVLDAEHFGLGKVKERIVEYLAVQARSTKIKGPILCLVGPPGVGKTSLARSIAKATGREYVRMSLGGVRDEAEIRGHRRTYIGSMPGKVIQSMKKAKKSNPLFLLDEIDKMGQDFRGDPSSAMLEVLDPEQNATFMDHYLEVEYDLSNVMFVTTANTMNIPVPLLDRMEIIRIAGYTEDEKLEIAKRHLLPKAIKDHALQPKEFSVTEDALRNVIRHYTREAGVRSLEREVMTLARKAVTEILKTKKKSVKITDKNLSDYLGVEKFRFGQIDGEDQVGVVTGLAWTEVGGELLTIEGVMMPGKGRMTVTGNLRDVMKESISAAASYVRSRAIDFGIEPPLFDKRDIHVHVPEGATPKDGPSAGIAMVTAIVSVLTGIPVRKDIAMTGEVTLRGRVLPIGGLKEKLLATLRGGIKKVLIPEENAKDLAEIPDNVKNNLEIVPVSRVGEVLKHALVRQPEPIEWTEQENPTAVPPVEDEAGASLAH |
| 2533 | sp|A8ZX50|LON\_DESOH | MAQPKIPEYKANGTTDKLPETVPIMPLSDGVLFPKMIIPVVITQNEYMTLIDEVMSGNRLVALITPKSGERKSDYGPGDLSPIGTLALILKMAKPDESRIHLMLQGISRIRTKNFIKTDPYLEAAFAQITENEKKDKETEGLMSNISNVYQELVRISPAIPNELGAMAVTIDEPGSLADMVASTINSSTEEKQNILETLDVKLRLKKVTRQLNHQLEILKLGDKIQSQIKEDMDKQQKEFYLRKQLKAIREELGEKEEGNVEAEEYRTKIEEGNLPEEAYKAATRELERFSRMHPSSSEYTVSSTYLDWLTTLPWDKQTEDHLDIKKARAILDKDHFGLEKPKKRILEYLAVRKLNPDSKGPILCFLGPPGTGKTSLGRSIARALGREFIRISLGGVRDEAEIRGHRRTYVGALPGRIIQEIRKAGTNNPVFMLDEIDKVGADFKGDPSSALLEVLDPEQNFSFADHYLDVSFDLSRVMFVATANVIDTIPPALRDRMEVIGLRGYTLEEKVKIARQYLIPRQRKENGLAAKHISFSQSAIRHIISDYTREAGLRNAEREIASVCRGVAAKIAEGKKVSGAIKPEDLYEYLGPVRFTSETGENALTPGVVMGLAWTPVGGEILFIEATSMKGKRGLTLTGQLGDVMKESATAALSFIRAHARDYDIDEDFFDKYDFHIHVPSGAIPKDGPSAGVTMLTALVSLLTGRKVKKGLAMTGEITLRGKVMPVGGIKEKVIAAHRAGIKEVILPRPNKKDLEEIPAKVKSAMKFHFAEKMGDVLELALNGNGATKKKKKTPAKSKKSTKPAAKKTAARKSRK |
| 2534 | sp|P35191|MDJ1\_YEAST | MAFQQGVLSRCSGVFRHHVGHSRHINNILYRHAIAFASIAPRIPKSSFHTSAIRNNEAFKDPYDTLGLKKSATGAEIKKAYYKLAKKYHPDINKEPDAEKKFHDLQNAYEILSDETKRQQYDQFGPAAFGGGGAAGGAGGGSGSPFGSQFHDFSGFTSAGGSPFGGINFEDLFGAAFGGGGRGSGGASRSSSMFRQYRGDPIEIVHKVSFKDAVFGSKNVQLRFSALDPCSTCSGTGMKPNTHKVSCSTCHGTGTTVHIRGGFQMMSTCPTCNGEGTMKRPQDNCTKCHGEGVQVNRAKTITVDLPHGLQDGDVVRIPGQGSYPDIAVEADLKDSVKLSRGDILVRIRVDKDPNFSIKNKYDIWYDKEIPITTAALGGTVTIPTVEGQKIRIKVAPGTQYNQVISIPNMGVPKTSTIRGDMKVQYKIVVKKPQSLAEKCLWEALADVTNDDMAKKTMQPGTAAGTAINEEILKKQKQEEEKHAKKDDDNTLKRLENFITNTFRKIKGDKKN |
| 2535 | sp|Q8LB47|MGE2\_ARATH | MLVLRILSRVTRNAGIRSSLSAVTLPARNQTPVFSSRFHSLAHDFSHKLVPAQMSMMDSFALQRFNFSSSTSPESDEKKTHTEASKTSEEKPTAEANQPGLDSESKDSVTDSAKRKRKGAKGAASSSSESDSESDDDELSADDLVKLVAEKEELLSEKEEEIKQLKDKVLRTYAEMENVMDRTRRDAENTKKYAVQNFAKSLLDVADNLGRASSVVKESFSKLDTSEDSAGAAPLLKTLLEGVEMTEKQLAEVFKKFGMEKYDPINEPFDPNRHNAVFQVPDASKPEGTVAHVLKSGYTLYDRVIRPAEVGVTQGGENQEEKKESDA |
| 2536 | sp|P34068|MFM1\_SCHPO | MDSMANSVSSSSVVNAGNKPAETLNKTVKNYTPKVPYMCVIA |
| 2537 | sp|Q39023|MPK3\_ARATH | MNTGGGQYTDFPAVETHGGQFISYDIFGSLFEITSKYRPPIIPIGRGAYGIVCSVLDTETNELVAMKKIANAFDNHMDAKRTLREIKLLRHLDHENIIAIRDVVPPPLRRQFSDVYISTELMDTDLHQIIRSNQSLSEEHCQYFLYQLLRGLKYIHSANIIHRDLKPSNLLLNANCDLKICDFGLARPTSENDFMTEYVVTRWYRAPELLLNSSDYTAAIDVWSVGCIFMELMNRKPLFPGKDHVHQMRLLTELLGTPTESDLGFTHNEDAKRYIRQLPNFPRQPLAKLFSHVNPMAIDLVDRMLTFDPNRRITVEQALNHQYLAKLHDPNDEPICQKPFSFEFEQQPLDEEQIKEMIYQEAIALNPTYG |
| 2538 | sp|O31663|MTNK\_BACSU | MGVTKTPLYETLNESSAVALAVKLGLFPSKSTLTCQEIGDGNLNYVFHIYDQEHDRALIIKQAVPYAKVVGESWPLTIDRARIESSALIRQGEHVPHLVPRVFYSDTEMAVTVMEDLSHLKIARKGLIEGENYPHLSQHIGEFLGKTLFYSSDYALEPKVKKQLVKQFTNPELCDITERLVFTDPFFDHDTNDFEEELRPFVEKLWNNDSVKIEAAKLKKSFLTSAETLIHGDLHTGSIFASEHETKVIDPEFAFYGPIGFDVGQFIANLFLNALSRDGADREPLYEHVNQVWETFEETFSEAWQKDSLDVYANIDGYLTDTLSHIFEEAIGFAGCELIRRTIGLAHVADLDTIVPFDKRIGRKRLALETGTAFIEKRSEFKTITDVIELFKLLVKE |
| 2539 | sp|Q7TQ35|PARK7\_MESAU | MASKRALVILAKGAEEMETVIPVDIMRRAGIKVTVAGLAGKDPVQCSRDVMICPDTSLEDAKKQGPYDVVVLPGGNLGAQNLSESPVVKEILKEQESRKGLIAAICAGPTALLAHEIGFGSKVTTHPGAKDKMMNGSHYSYSESRVEKDGLILTSRGPGTSFEFALAIVEALSGKEAADQVKAPLVLKD |
| 2540 | sp|P25794|PIP2\_PEA | MEAKEQDVSLGANKFPERQPLGIAAQSQDEPKDYQEPPPAPLFEPSELTSWSFYRAGIAEFIATFLFLYITVLTVMGVVRESSKCKTVGIQGIAWAFGGMIFALVYCTAGISGGHINPAVTFGLFLARKLSLTRAIFYMVMQVLGAICGAGVVKGFEGKQRFGDLNGGANFVAPGYTKGDGLGAEIVGTFILVYTVFSATDAKRSARDSHVPILAPLPIGFAVFLVHLATIPITGTGINPARSLGAAIVFNKKIGWNDHWIFWVGPFIGAALAALYHQVVIRAIPFKSK |
| 2541 | sp|P92980|APR3\_ARATH | MALAINVSSSSSSAISSSSFPSSDLKVTKIGSLRLLNRTNVSAASLSLSGKRSSVKALNVQSITKESIVASEVTEKLDVVEVEDFEELAKRLENASPLEIMDKALEKFGNDIAIAFSGAEDVALIEYAHLTGRPYRVFSLDTGRLNPETYRLFDTVEKHYGIRIEYMFPDAVEVQALVRNKGLFSFYEDGHQECCRIRKVRPLRRALKGLRAWITGQRKDQSPGTRSEIPVVQVDPVFEGLDGGVGSLVKWNPVANVEGNDVWNFLRTMDVPVNTLHAAGYVSIGCEPCTRAVLPGQHEREGRWWWEDAKAKECGLHKGNIKENTNGNATANVNGTASVADIFNSENVVNLSRQGIENLMKLENRKEAWIVVLYAPWCPFCQAMEASFDELADKLGGSGVKVAKFRADGDQKDFAKKELQLGSFPTILVFPKNSSRPIKYPSEKRDVDSLTSFLNLVR |
| 2542 | sp|Q9M276|ATB12\_ARATH | MEEGDFFNCCFSEISSGMTMNKKKMKKSNNQKRFSEEQIKSLELIFESETRLEPRKKVQVARELGLQPRQVAIWFQNKRARWKTKQLEKEYNTLRANYNNLASQFEIMKKEKQSLVSELQRLNEEMQRPKEEKHHECCGDQGLALSSSTESHNGKSEPEGRLDQGSVLCNDGDYNNNIKTEYFGFEEETDHELMNIVEKADDSCLTSSENWGGFNSDSLLDQSSSNYPNWWEFWS |
| 2543 | sp|Q10723|ARS\_VOLCA | MLQRLVVALCLLGFAALTAAAAHQRPNFVVIFTDDQDGIQNSTHPRYQPKLHEHIRYPGIELKNYFVTTPVCCPSRTNLWRGQFSHNTNFTDVLGPHGGYAKWKSLGIDKSYLPVWLQNLGYNTYYVGKFLVDYSVSNYQNVPAGWTDIDALVTPYTFDYNNPGFSRNGATPNIYPGFYSTDVIADKAVAQIKTAVAAGKPFYAQISPIAPHTSTQIYFDPVANATKTFFYPPIPAPRHWELFSDATLPEGTSHKNLYEADVSDKPAWIRALPLAQQNNRTYLEEVYRLRLRSLASVDELIDRVVATLQEAGVLDNTYLIYSADNGYHVGTHRFGAGKVTAYDEDLRVPFLIRGPGIRASHSDKPANSKVGLHVDFAPTILTLAGAGDQVGDKALDGTPLGLYANDDGNLLADYPRPANHRNQFQGEFWGGWSDEVLHHIPRYTNNSWKAVRVYDEDNQQAWKLIVSCTNERELYDLKTDPGELCNIYNKTRAAVRTRLEALLAVLVVCKGESCTNPWKILHPEGSVNSWNQSLDRKYDKYYANVAPFQYRTCLPYQDHNNEVSAFRSTVAAAAAAAAAAAAQQPGRRRMYTWTSAGRQLSATASAIATSPQPRSEPFVAEVERHSVPVPAEVLQSDVAKWFDNPLALA |
| 2544 | sp|Q9LIQ9|BLI\_ARATH | MASATSSRRQEDVEAGRRKLEQFRKRKAAEKAKKASQNTQPVDNSQQSVIDSDGAGASISNGPLKQSAESTSNETHTKDVYNLSFSNTAMDDGSKERSRQDDGQESVGKVDFSNSLELIGSSKDLTVNTRPEVVPYSNIDKQSSESFDRASTLRETASLFSGTSMQMDGFIHGSGLTSSRKDSLQPTTRMAGSFDEVAKNQQGSGELGGSIVQKPTLSSSYLFNSPDTSSRPSEPSDFSVNITSSSPLNSAKSEATVKRSRPSFLDSLNISRAPETQYQHPEIQADLVTSSGSQLSGSDGFGPSYISGRRDSNGPSSLTSGASDYPNPFEKFRSSLYPAANGVMPGFTDFSMPKQNDDFTALEQHIEDLTQEKFSLQRDLDASRALAESLASENSSMTDTYNQQRGLVNQLKDDMERLYQQIQAQMGELESVRVEYANAQLECNAADERSQILASEVISLEDKALRLRSNELKLERELEKAQTEMLSYKKKLQSLEKDRQDLQSTIKALQEEKKVLQTMVQKASSGGKSTDLSKNSTSRKNVSTSTEGLAISDTTPESSNQETDSTTLLESDSSNTAIIPETRQLTLEGFSLSVPADQMRVIHNINTLIAELAIEKEELVQALSSELSRSAHVQELNKELSRKLEAQTQRLELVTAQKMAIDNVSPEKQQPDTHVVQERTPIADEGDEVVERVLGWIMKMFPGGPSKRRTSKLL |
| 2545 | sp|P0ABE4|BOLA\_SHIFL | MMIRERIEEKLRAAFQPVFLEVVDESYRHNVPAGSESHFKVVLVSDRFTGERFLNRHRMIYSTLAEELSTTVHALALHTYTIKEWEGLQDTVFASPPCRGAGSIA |
| 2546 | sp|O82345|BAG6\_ARATH | MMPVYMDPSQPCQMRPQEYYYQGFGNNSQHMAMDAPPPCHGSCVHGNFPAYWPPCYPPQVPYHQCCMNRSAFHPPHASYAPSCYVHPPFPVGYQPWFDVEKDVPGKHHCGKCSSQMCDLKKDRGVVIEEHEPEIEKGEAVLPVRSTNCPYPIIWIPHENARNQEYRSSLGLGKHNQPPAEVRAPDNMTIQKSFPESWRGCFPFDESSMKSLVQNQDSKKAQNGKTVEAPFDISKFKSLLQGQDMKEAQIQKNKEELGQLTYPTSWVPSRRKRDDVEASESSNEDRKKMQNGKTVEYPFDISMIKSLIQGQDVKEAQNQKNKEEPGQVPYPIFWIPSYGKRKDVEASESKESSNEGRNLESCPSDLHRNEGQITQAKGKEGNFECNVLSDAEEKSSVINIPVANHLQEPRNIPVKLSENHLPKPTEPTKRIAKNEPVKSTKKEQSSSSSEASKLPPVCLRVDPLPKERNGGSKSVSHPKRMEKSKETKIAAPLSSKKAESRTVPEACNVKCEDANAEMKMAEGSLNALRTEKGSVESNSNLQEESNGEIIKPCEAKENREQPAKKSFTEEEAARIIQSMYRGYDVRRWEPIKKLKEIATVREQMGDVKKRIEALEASTDQHIEEKEIVVNGELVMNLLLKLDAVEGLHPSIREFRKALATELSSIQDKLDSLKNSCASAEKEAVKEQVEIKSQPSDSPVNLEHSQLTEENKMVSDTNLEKVLRLSPEEHPMSVLNRTDEKQAESAAETEEGYGLFETLATDSKQATENAAAASSTTIPEKIGEVETVVPGNPPSADGNGMTVTNVEENKAMVVESLEEPINELPQMVEETETNSIRDPENASEVSEAETNSSENENRKGEDDIVLHSEKNVELSELPVGVIDEETQPLSQDPSSSYTREGNMTAMDPKTASQEETEVDHSPNNSKGIGQQTSEPQDEKEQSPETEVIVKEQPLETEVILNEQAPEPEITEPGISKETKKLMEENQRFKETMETLVKAGREQLEVISKLTSRVKSLEKKLSHKKKTQIRRRASKPMSVSPTDAVL |
| 2547 | sp|Q0I3V2|DNAK\_HAES1 | MGKIIGIDLGTTNSCVAVMDGDKPRVIENAEGERTTPSIIAYTNDNETLVGQPAKRQAVTNPKNTLFAIKRLIGRRFEDQEVQRDVAIMPFEITKADNGDAWVSVKGEKMAPPQISAEVLKKMKKTAEDFLGETVTEAVITVPAYFNDAQRQATKDAGRIAGLEVKRIINEPTAAALAYGLDKGKGNQTIAVYDLGGGTFDLSIIEIDEVGGEKTFEVLATNGDTHLGGEDFDNRVINYLVDEFKKEQGVDLRNDPLAMQRLKEAGEKAKIELSSAQQTDVNLPYITADATGPKHLNIKLTRAKLEALVEDLVARSMEPVKVALSDAGLSVSEINDVILVGGQTRMPLVQQKVAEFFGKEPRRDVNPDEAVAIGAAVQGGVLAGDVKDVLLLDVTPLSLGIETMGGVMTTLIEKNTTIPTKKSQVFSTAEDNQSAVTIHVLQGERKQASANKSLGQFNLEGINPAPRGMPQIEVTFDIDADGIIHVSAKDKGTGKEQKITIKASSGLSDEEIQQMVRDAEANAEADRKFEELVQARNQADHLVHSTRKQLAEVGEKLSAEDKAPIESAVNELETAAKGEDKTEIDAKVQALIQVSEKLLQASQQQAQADAGAQQSQSTKGGDDVVDAEFEEVKDK |
| 2548 | sp|A5WBF8|DNAJ\_PSYWF | MSKRDFYEVLGVDRSADEREIKKAYRKLAMKYHPDRNSDDPDAEEKFKEASMAYEVLSDKEKRSAYDRMGHAAFENGMGGGGFGGAGAGNFQDIFGDIFGNFGDIFGQSRGGGGRQRRGSDLRYVIELSLEEAVRGCKKEISFTAPAPCETCDGKGAKNASDIQTCSTCGGHGQVRMQQGFFAVQQTCPNCGGSGQEIKNPCNDCHGTGVKDKSRTLEVSIPAGVDDGDRVRLAGEGEAGGAGVQNGDLYVEVRVKEHPVFKRQGADLYMDVPVSITDAALGKEVEIPTLDGKVKIKVAEGTQSGKLLRVRGKGVTPVRTTMKGDLICRIMVETPVNLTREQKDLLRQFQDTLDGDSKHHQSPKKKSFFEKLGDLFD |
| 2549 | sp|Q049W6|DNAK\_LACDB | MSKVIGIDLGTTNSAVAVLEGKEPKIITNPEGARTTPSVVAFKDGEIQVGEVAKRQAITNPNTIVSIKRHMGESDYKVKVGDKAYTPQEISAMILQYIKKFSEDYLGEPVTDAVITVPAYFNDAQRQATKDAGKIAGLNVQRIINEPTASALAYGLDKDEDDETVLVYDLGGGTFDVSVLQLGDGVFQVLSTNGDTHLGGDDFDNKIIDWLVDGFKQENGIDLSKDKMAMQRLKDAAEKAKKDLSGVSSTHISLPFISAGEAGPLHLEVDLTRAKFNELTDDLVQRTKIPFDNALRDAGLSVGDIDKVILNGGSTRIPAVQEAVKQWAGKEPDHSINPDEAVALGAAIQGGVISGDVKDIVLLDVTPLSLGIETKGGVFTKLIDRNTTIPTSKSQIFSTAVDNQPAVDIHVLQGERPMAADNKTLGRFELTDIPAAPRGVPQIQVTFDIDKNGIVNVSAKDLGTGKEQKITIQSASGLSDEEIERMKKEAEEHAEEDAKKKEEVDLRNEVDGLIFQTEKTLKEVDGKLADSDIQPVKDALEDLKKAQKDNNLDEMKEKKDALSKVAQDLAVKLYQQNSQNQQGQGGQAGPTDDGSNGANGDTVDGDFTKVDPDK |
| 2550 | sp|D6JLP0|DNRN\_NEIGO | MTDFSVWEAAPFGATVDHILQRYHNVHRAQFEELVPLAQKVAQVHADTFPAEIAGLLADMRDELLMHMMKEERMLFPMINQGVGRGAAMPISVMMHEHEEHDRAIARLKELTGNFHAPEGACGSWTRLYALAKEMADDLNDHIHLENDILFARVLDS |
| 2551 | sp|Q5SLW9|DNAJ1\_THET8 | MKDYYAILGVSREASQEEIKKAYRRLALKYHPDRNPGDKEAEERFKEINEAYAVLSDPKKRAAYDRGHLEAPEYRPEDLFDLFFQEVFGVRGHRRPPRGEDLEAEVEVELQDLLHGAEKEVRYTRLVPCEACGGEGGRRTPCPTCRGQGVVESYRQSFFGTVVTRTACPHCKGRGYLLAETCPACRGRGRVPREERVRVQVPPGMDEGHLLRVPGYGNLGPGGPGDLYLRIRVRPHPHLERQGPDLVYRLRLGLAQAALGARVEVPGLEGPIPLDIPPGTGHGEVFALEGGGLPLPGGRGRGTLRVVVELAVPKKLSPKAQKLLRAYAEEVGEEVAPEGFWERLKGFFRK |
| 2552 | sp|Q32KA4|DNAJ\_SHIDS | MAKQDYYEILGVSKTAEEREIKKAYKRLAMKYHPDRNQGDKEAEAKFKEIKEAYEVLTDSQKRAAYDQYGHAAFEQGGMGGGGFGGGADFSDIFGDVFGDIFGGGRGRQRAARGADLRYNMELTLEEAVRGVTKEIRIPTLEECDVCHGSGAKPGTQPQTCPTCHGSGQVQMRQGFFAVQQTCPHCQGRGTLIKDPCNKCHGHGRVERSKTLSVKIPAGVDTGDRIRLAGEGEVGEHGAPAGDLYVQVQVKQHPIFEREGNNLYCEVPINFAMAALGGEIEVPTLDGRVKLKVPGETQTGKLFRMRGKGVKSVRGGAQGDLLCRVVVETPVGLNEKQKQLLQELQESFGGPTGEHNSPRSKSFFDGVKKFFDDLTR |
| 2553 | sp|Q74IT6|DNAK\_LACJO | MSKVIGIDLGTTNSAVAVLEGKEPKIITNPEGNRTTPSVVAFKNGEIQVGEVAKRQAITNPNTIVSIKSHMGEEGYKVKVGDKEYTPQEISAFILQYIKKFSEDYLGEKVTDAVITVPAYFNDAQRQATKDAGKIAGLNVQRIINEPTASALAYGLDKDENDEKVLVYDLGGGTFDVSILQLGDGVFQVLSTNGDTHLGGDDFDQRIMDWLIQNFKEENGVDLSNDKMALQRLKDAAEKAKKDLSGVSSTHISLPFISAGEAGPLHLEADLTRAKFDELTDDLVQKTKVAFDNALSDAGLTVNDIDKVILNGGSTRIPAVQKAVKDWAGKEPDHSINPDEAVALGAAIQGGVISGDVKDIVLLDVTPLSLGIETMGGVFTKLIDRNTTIPTSKSQIFSTAADNQPAVDVHVLQGERPMAADDKTLGRFELTDIPPAPRGVPQIQVTFDIDKNGIVNVSAKDMGTGKEQKITIKSSSGLSDEEIKKMQKDAEEHAEEDKKRKEEVDLRNEVDQLIFTTEKTLKETEGKVPETETKNVQDALDALKKAQKDNNLDEMKEKKEALSKAAQDLAVKLYQQNGGAQGAAGQAGPQGPQNGGQPNNDNGSDNGQGGSTVDGDFHKVDPDK |
| 2554 | sp|B3R6G6|DNAJ\_CUPTR | MAKRDYYEVLGVGKNASDDEIKKAYRKLAMKFHPDRNPDSKDAEEKFKEAKEAYEMLSDPEKKAAYDQYGHAGVDPNMAGGFGGAQGYGGFAEAFGDIFGDIFGQGGGGRRGGGPQAYRGADLRYSMEISLEQAAHGHEAQIRVPHWDDCDHCHGNGAEPGSSVETCPTCHGAGQVRVSQGFFTMQQTCPKCHGSGKFIPKPCTKCHGQGKLKSQKTLEVKIPAGIDEGMRIRSSGNGEPGINGGPPGDLYVEVHIKPHAVFERDGDDLHCQMPISFATAALGGDLEVPTLSGKATFPVPEATQSGKTFRLRGKGIKGVRSGYPGDLYVHVNVETPVKLTEAQKEMLRQFDRSVHEGGSRHSPQETSWLDKVKSFFS |
| 2555 | sp|Q5PDJ4|DNAJ\_SALPA | MAKRDYYEILGVSKTAEEREIKKAYKRLAMKYHPDRNQGDKEAEAKFKEIKEAYEVLTDAQKRAAYDQYGHAAFEQGGMGGGFNGGADFSDIFGDVFGDIFGGGRGRQRAARGADLRYNMDLTLEEAVRGVTKEIRIPTLEECDVCHGSGAKAGTQPQTCPTCHGSGQVQMRQGFFAVQQTCPHCQGRGTLIKDPCHKCHGHGRVEKSKTLSVKIPAGVDTGDRIRLAGEGEAGEHGAPAGDLYVQVQVKQHPIFEREGNNLYCEVPINFAMAALGGEIEVPTLDGRVMLKVPSETQTGKLFRMRGKGVKSVRGGAQGDLLCRVVVETPVGLSEKQKQLLKDLQESFGGPTGEKNSPRSKSFFDGVKKFFDDLTR |
| 2556 | sp|A9MR76|DNAJ\_SALAR | MAKRDYYEVLGVSKTAEEREIKKAYKRLAMKYHPDRNQGDKEAEAKFKEIKAAYEVLTDAQKRAAYDQYGHAAFEQGGMGGGFNGGADFSDIFGDVFGDIFGGGRGRQRAARGADLRYNMDLTLEEAVRGVTKEIRIPTLEECDVCHGSGAKAGTQPQTCPTCHGSGQVQMRQGFFAVQQTCPHCQGRGTLIKDPCHKCHGHGRVEKSKTLSVKIPAGVDTGDRIRLAGEGEAGEHGAPAGDLYVQVQVKQHPIFEREGNNLYCEVPINFAMAALGGEIEVPTLDGRVKLKVPSETQTGKLFRMRGKGVKSVRGGSQGDLLCRVVVETPVGLSEKQKQLLKDLQESFGGPTGEKNSPRSKSFFDGVKKFFDDLTR |
| 2557 | sp|B7UI60|DNAJ\_ECO27 | MAKQDYYEILGVSKTAEEREIKKAYKRLAMKYHPDRNQGDKEAEAKFKEIKEAYEVLTDSQKRAAYDQYGHAAFEQGGMGGGGFGGGADFSDIFGDVFGDIFGGGRGRQRAARGADLRYNMELTLEEAVRGVTKEIRIPTLEECDVCHGSGAKPGTQPQTCPTCHGSGQVQMRQGFFAVQQTCPHCQGRGTLIKDPCNKCHGHGRVERSKTLSVKIPAGVDTGDRIRLAGEGEAGEHGAPAGDLYVQVQVKQHPIFEREGNNLYCEVPINFAMAALGGEIEVPTLDGRVKLKVPGETQTGKLFRMRGKGVKSVRGGAQGDLLCRVVVETPVGLNEKQKQLLQELQESFGGPTGEHNSPRSKSFFDGVKKFFDDLTR |
| 2558 | sp|Q03QU1|DNAK\_LACBA | MASNKIIGIDLGTTNSAVAVLEGSTPKIIANKEGARTTPSVVAFKDGETQVGEVAKRQAITNPNTISSIKSHMGEAGYKVSVDGKDYTPQQVSAMILQHLKAFAEDYIGDTVEKAVITVPAYFNDAQRQATKDAGKIAGLSVERIINEPTAAALAYGLDKQDKDEKVLVYDLGGGTFDVSVLELGDGVFDVLSTNGDTHLGGDDFDQKIMDWLVAGFKEENGVDLSKDKMALQRLKDAAEKAKKDLSGVTEAQISLPFISAGENGPLHLEKSLSRAKFNELTADLVEKTRIPVQNALKDADLQASDIDVVILNGGSTRIPAVQEAVKSWTGKEPNHSINPDEAVALGAAVQGGVITGDVKDVVLLDVTPLSLGIETMGGVFTKLIDRNTTIPTSKSQVFSTAADNQPAVDIHVLQGERPMAADNKTLGNFQLTDIPAAPRGVPQIQVTFDIDKNGIVNVSAKDMGTNKEQKITIKSSDGLSDEEIEKMMNEAKENEEADKKRKEEVDTKNEVDQLLFQTDKTLKDVKGKVSDDEIKKAEDARDALKKAQEANNLDDMKAKKDDLTKIIQDLSVKLYQQAQSEAGDGNAAGADGATADADKKDDNTVDGDFHEVNDDDKK |
| 2559 | sp|Q9PQF2|DNAK\_UREPA | MAKEIILGIDLGTTNSCVAVIENKKPIVLENPEGKRTVPSVVSFNGDEVLVGDAAKRKQITNPNTISSIKRLMGTKEKVTVLNKDYTPEEISAKILTYIKEYAEKKIGAKVNKAVITVPAYFDDAQRQATKNAGIIAGLSVERIINEPTAAALAYGIDKLDKEQKILVFDLGGGTFDVSVLDMADGTFEVLSTSGDNHLGGDDWDQVIINWLLKSIADEFNIDLSKNKMAMQRLKDAAEKAKIELSGINTTTISLPFIAMDSSGQPINFEKELNRATFDNLTKNLIERLKKPVLDAMKESKLSLVDIDQVLMVGGSTRMPAVQNLVKELTGKEPNHSLNPDEVVAIGAAIQGGVLAGEIDDILLLDVTPLTLSIETMGGVATPLIPRNTKIPVSKSQIFSTAADNQPSVDIRIVQGERSLAADNKLLGNFELSGIEPAPRGVPQIEIKFNIDANGIMSVNAKDLKTQKETSITIKDSQGLSQDEIDKMIKEAEENKEKDAKVKHERELVNRADSLINQLEQVSKTENVPQEQKDVFNKQIEDLTNARDAQDYVKLEAEVKKVEDLLTNAAKFAQQAQQQNPDNQNNNKDDVTEATVTDDSTKK |
| 2560 | sp|B7GKC8|DNAK\_ANOFW | MSKIIGIDLGTTNSCVAVLEGGEPKVIPNPEGGRTTPSVVAFKNGERLVGEVAKRQAITNPNTIISIKRHMGTDYKVQIEGKEYTPQQISAMILQYLKSYAEAYLGEPVTRAVITVPAYFNDAQRQATKDAGRIAGLEVERIINEPTAAALAYGLDKMDEDQTILVYDLGGGTFDVSILELGDGVFEVKATAGDNHLGGDDFDQVIIDYLVEEFKKEHGIDLSKDKMALQRLKDAAEKAKKELSGVMQTQISLPFISANENGPLHLEMTLTRAKFEELSAHLVERTMGPVRQALKDAGLTPADIDKVILVGGSTRIPAVQEAIKKEIGKEPHKGVNPDEVVAIGAAIQGGVIAGDVKDVVLLDVTPLSLGIETMGGVFTKLIERNTTIPTSKSQIFTTAADNQTAVDIHVLQGERPMAADNKTLGRFQLTDIPPAPRGVPQIEVTFDIDANGIVHVRAKDLGTNKEQSITIKSSSGLSEEEIQRMIKEAEENAEADRKRKEEVELRNEADHLIFTTEKTLKELEGKVDEADVKKAQEAKDALKAALDGKDIEDIRAKKNALQEVVQQLSVKLYEQAAKQAQAQQSEGKKDDNVVDAEFEEVKEDK |
| 2561 | sp|B4SSQ6|DNAK\_STRM5 | MGKIIGIDLGTTNSCVAIMDGGKARVIENSEGDRTTPSIVAYTKDGEVLVGASAKRQAVTNPKNTFYAVKRLIGRKFTDAEVQKDIAHVPYSILAHDNGDAWVATSDAKKMAPQEISAKVLEKMKKTAEDFLGEKVTEAVITVPAYFNDSQRQATKDAGRIAGLDVKRIINEPTAAALAYGLDKGDNKDRKIVVYDLGGGTFDVSVIEIANVDGEKQFEVLATNGDTFLGGEDFDNRVIEYLVEEFNKDQGIDLRKDPLALQRLKDAAERAKIELSSAQQTEVNLPYVTADASGPKHLNIKLTRAKLESLVEELIRKSIEPCRVALNDAGLRSSDISEVILVGGQTRMPKVQQAVTEFFGKEPRKDVNPDEAVALGAAIQGGVLGGDVKDVLLLDVTPLSLGIETMGGVFTKIIEKNTTIPTKASQVFSTAEDNQSAVTVHVLQGEREQARFNKSLAKFDLSGIEPAPRGLPQVEVSFDIDANGILHVSAKDKKTNKEQKVEIKAGSGLSEEEIARMVADAEANREEDKKFQELVQARNQADALIHGTRSAITEHGSKVGGDVIGKVEAALADLETAMKGDDKAQIEAKSKVLEEAGQSLFAAASAEQGGAAPGADAGNAGKAQDDVVDAEFTEVKDDKKS |
| 2562 | sp|A6U252|DNAK\_STAA2 | MSKIIGIDLGTTNSCVTVLEGDEPKVIQNPEGSRTTPSVVAFKNGETQVGEVAKRQAITNPNTVQSIKRHMGTDYKVDIEGKSYTPQEISAMILQNLKNTAESYLGEKVDKAVITVPAYFNDAERQATKDAGKIAGLEVERIINEPTAAALAYGLDKTDKDEKVLVFDLGGGTFDVSILELGDGVFEVLSTAGDNKLGGDDFDQVIIDYLVAEFKKENGVDLSQDKMALQRLKDAAEKAKKDLSGVSQTQISLPFISAGENGPLHLEVNLTRSKFEELSDSLIRRTMEPTRQAMKDAGLTNSDIDEVILVGGSTRIPAVQEAVKKEIGKEPNKGVNPDEVVAMGAAIQGGVITGDVKDVVLLDVTPLSLGIEILGGRMNTLIERNTTIPTSKSQIYSTAVDNQPSVDVHVLQGERPMAADNKTLGRFQLTDIPPAERGKPQIEVTFDIDKNGIVNVTAKDLGTNKEQRITIQSSSSLSDEEIDRMVKDAEVNAEADKKRREEVDLRNEADSLVFQVEKTLTDLGENIGEEDKKSAEEKKDALKTALEGQDIEDIKSKKEELEKVIQELSAKVYEQAAQQQQQAQGANAGQNNDSTVEDAEFKEVKDDDKK |
| 2563 | sp|D0Z5N4|E2AKB\_CAEEL | MTKENQIVLDERVKENQHLQEEEKLALDAVYLNQITYIKAHWHVWVPTNCHILLKALDSCFLNGDPLGKSKLSVILHVKCSEDYPQRKPAVDLLDPQGLSKEDVQNLLTILRQMADTWEGCVVIAELAHRVREFLTDHTPRPAGSFHDDMLANKVRTEAEKQRKRLDTEQKELELLEEEMRQRNAIEMEKTLNGTRQENETRIIGGRRIVVLSNMPNTQLLISEWTFRFSSNRNPAEGKRKDFAPFLQKLDAVYNEIQKLCEIKGLDQNLVEYAFVHLQKISVSPDQILIQLNVAQKIFSSEENMQDTYELIVQKSNLLRLLAAQAICGLRYLHEASMTHKHLTLGSVWTRNSTGDCVFRFSDFGSMGPLLDLVKMFGDICSGKYVARDEDKEKEYDRRRKDLFQLGTLLDGLILATRGSTYSRVPTPVEGNQNTGTNLLGNFIAKCQEAKNIDQLVEDPFLKEECQSESENIFTPFGGAMSPDGRMLADNVIIRVLGRGGFGDVVLVRNKMDSTDYAIKRIPLNAKSDKLNRKIAKEAKFFAKLNHPNMVRYYYAWAEDLIPIVEETSDDDSSLGAVPIPGKEKIGKKGKLKTGKSLEDKENKANLGGGDSLMPMNLRGLVKDHSIGVDAKEWSTPFGKPEGPKCASRMRQSKRSTPSGGLKHLSECSSDDEDDDDSSEIDWDAESEEVEDEESDDSDEEDEDDGERLVQLNTETSTGADSVFERSTADEDVVFTAESEDLNAKRRESIELMEINTTTTSKSKLAIDVVPVRKPRILCIQMEYCDRATLRQYIDENHCFNAPTEVWRIFSEVLCGLKYMHDMAMIHRDIKPLNIFLTSQNGVKIGDFGLATLEAMSSKGKIVGGAAEKSTSIEAMLSPNGVKSKGSDVHQTRDIGTQLYMAPELFVDELVHKAPYTSKIDIYSAGVVLFEMFYRPLPPSMDRVSTLNNLRDDIKIPSDFGAGLAAPMAGLARRTVEKMLQRNPDERPTADDLLNDEDLPMHTKEDATFRNLCEKVIKKRDGRMNAWLLDKQFKEEVPTSLNYCYDVDICLERAKYNNREVLVETLRAEFCKILKIHSFEKLHTHTLMPVSTALAAASVRTKPVEVLDRSGVPVALPMDLRQNFVRFCVRNSVQRMKRFNFGRVYSQTSANGHPHERWECCVDCIGPQCSSPSLEAELLLVACEMMIGSLPGMKFTLKIGHAQLIEAQIRHLKLSDDVRAELLDALHLISVSDRPHSHKEKMDMLTPKIGAKAANIITKLLIPVEDNFGAFKEKVACFRKKLKVDAARVLVDKAIRDLEEIVGTFKFCRTEAIEQISIVYDSQTCYRPRTFGDGLLFQIQVEKPSTIANNKRGRRQNVLAGGRYDSALLRERHPRDFVYEIPLCISGFGVAMDVVSQIRDSINKSANIPKTPQNHCKVLICSMVQPDGSNLITQKFELAKKLWSMGIEADVFHIPVDDLESLTEHRNRASITHILAVYNTLNEVICKTETSSETMDVDSAISSVWRGVQALDGQSIHMTPCGGGPISSISTPGEAHHHDDHHPGTPVIASKCFRSSVSTTVATTSIRPISATVANLNVILVTSADRFHKVMKEKKRVESQVRNHLTEFVAHFTSKTRIEVLVCDIPADVIKKIVSELTKTSSEAEIDKLFDQLIQKHGKVDLSPLRRQFHITLNGISTGSAQVAILFYRQSDNFYRYLV |
| 2564 | sp|Q02323|DPSS\_PINSY | MGGVDFEGFRKLQRADGFASILAIGTANPPNAVDQSTYPDFYFRITGNEHNTELKDKFKRICERSAIKQRYMYLTEEILKKNPDVCAFVEVPSLDARQAMLAMEVPRLAKEAAEKAIQEWGQSKSGITHLIFCSTTTPDLPGADFEVAKLLGLHPSVKRVGVFQHGCFAGGTVLRMAKDLAENNRGARVLVICSETTAVTFRGPSETHLDSLVGQALFGDGASALIVGADPIPQVEKACFEIVWTAQTVVPNSEGAIGGKVREVGLTFQLKGAVPDLISANIENCMVEAFSQFKISDWNKLFWVVHPGGRAILDRVEAKLNLDPTKLIPTRHVMSEYGNMSSACVHFILDQTRKASLQNGCSTTGEGLEMGVLFGFGPGLTIETVVLKSVPIQ |
| 2565 | sp|B8GXP6|DPO3B\_CAUVN | MKLTIERAALLKALGHVQSVVERRNTIPILSNILLSAEGDRLSFSATDLDMEIIDEGFAQIDVPGQITAPAHTLYEIVRKLPDGADVSLSFSGDDPRLVIQAGRSRFNLPVLPAGDFPVMSSDGLSSRIAVDTNELIRLIDKTRFAISTEETRYYLNGLYVHTVNEGGETKLRAVATDGHRLALAEMPAPEGAVGIPGVIVPRKTIAEARRLMESAGETVDLQVSPQKVRFEFGAAALTSKVIDGAFPDYMRVIPRDNAKILTLDNDLFAKAVDRVATISAEKSRSVKLAVEPGRITLTVRNMEAGQAVEEVEVDYDGEPFEIGFNARYLLDVCGQIAGPQAEFRFADPASPTLVVDPVDPGVKYVLMPLRV |
| 2566 | sp|P28562|DUS1\_HUMAN | MVMEVGTLDAGGLRALLGERAAQCLLLDCRSFFAFNAGHIAGSVNVRFSTIVRRRAKGAMGLEHIVPNAELRGRLLAGAYHAVVLLDERSAALDGAKRDGTLALAAGALCREARAAQVFFLKGGYEAFSASCPELCSKQSTPMGLSLPLSTSVPDSAESGCSSCSTPLYDQGGPVEILPFLYLGSAYHASRKDMLDALGITALINVSANCPNHFEGHYQYKSIPVEDNHKADISSWFNEAIDFIDSIKNAGGRVFVHCQAGISRSATICLAYLMRTNRVKLDEAFEFVKQRRSIISPNFSFMGQLLQFESQVLAPHCSAEAGSPAMAVLDRGTSTTTVFNFPVSIPVHSTNSALSYLQSPITTSPSC |
| 2567 | sp|Q3J7D7|GRPE\_NITOC | MANEERTIPETNVASERPEDPVESQTRAEGGEQIQEAAPETAELEAVQQLLEDARSKADEHWNELLRARAELENQRRRHERELEKGRKYALEKFAQDLLPVKDSLEMGLAAAQAEDANVTALREGTELILKMFNEVAARFGIETIDPQGEAFNPDFHQAISTQESSEAAPDTVLTVVRKGYALNGRLLRPAMVVVSKPGEQTTAGVDTQA |
| 2568 | sp|Q92SK0|GRPE\_RHIME | MTDETNKNGPEAAAPEEFETAAEPQAAEKPEADASTTAPDPLELARAESAELRDKYLRLAAEMDNLRRRTERDVKDAKSYSVAGFARDMLAVSDNLRRALDAIPADAREAGDAGLKALIEGVEMTERSMLAALERHGVKQLDPTGQKFDPNFHQAMFEVPNTEVPNNTVVQVVQAGYTIGERVLRPAMVGVAKGGPKAATSESETPAA |
| 2569 | sp|Q1AXX5|GRPE\_RUBXD | MSNEERKERGHEPEGPQREEKVEEPQGSPVDPASVEENAPPEASAETAPEEAGKEVREEELAKLREELEAVRRERDEYLDALRRLKAEFENSRKRMEREAQRIREAAAERLVAELLPVLDNLDRALEAEGDIREGVRATRDQLTDVLSREGLTPIASDGQHFDPSVHEAVMSQPSEEHEEGTIIQTFERGYMFNGRPIRPAKVVVAV |
| 2570 | sp|Q8EUM5|GRPE\_MYCPE | MENKNQKHNNEFHEKNQQSQKDNNNVKKENLHEDQSDLNDANFDDGGKKNKLKNDIKKLNHLVDSLKNENNNKQAKIESLERQINLLNENFKSEVIKKASEAQTKLDEKIKEFQAKYETELKHAKKYALKSSAIELIDIVSNFELAVNSKVTNPEIANYLKGFQMFANMFKNYFQQNGITEIPVNLNDDFNAEVMQAFETQKAPNTQPNKVIKIIKKGYKLHDIVLVPATVIVSE |
| 2571 | sp|Q3IKR2|GRPE\_PSEHT | MSEQRQNPEQEVELNEDLAKMEADVEAAVQAAEEHAEQEQSPEAEIAMLYAELEVAKQTIADQKDGVVRAAADVENMRRRAAQDVEKAHKFALEKFANELLPVIDNLERAIEFSDKENETLKPVLEGISMTVKSFNDAVAKFGVEIVNPQGEQFNPEFHQAMSIQPSNDVSPNTVLAVMQKGYTLNGRLLRPAMVMVSKAADA |
| 2572 | sp|B8CS27|GRPE\_SHEPW | MSNETNKAQDNQIDEQVESIVEGELLTEGSDEASLMDELTQANFRVEELEKALQEAQSTVDSQKDSVIRAAAEVDNIRRRAAIDVEKARKFALEKFANELLPVLDNMERALQGTDAEAEATKAIYEGVELTAKSFVSAVEKFGLTQVDPQGEAFNPELHQAIGMQPSTDFAANTVMMVMQKGYTLNERLLRPAMVMVSQG |
| 2573 | sp|A3D2B1|GRPE\_SHEB5 | MSNESIKAEQDLIQEGVESEVSTAEASLIDELTQANFRIEELEQLLAEALAKVEEQKDSVIRAAAEVDNIRRRAAMDVEKANKFALEKFANELLPVLDNMERALMGTNPEDEATKSIYQGVELTQKSLLTAVAKFGVKQIDPQGQSFNPDQHQAIGMQPSAEFPANTVMLVMQKGYELNSRLLRPAMVMVSQGGPNQESATIDIEA |
| 2574 | sp|B4TE57|GRPE\_SALHS | MSSKEQKTPEGQAPEEIIMDQHEEVEAVEPNDSAEQVDPRDEKIANLEVQLAEAQTRERDTVLRIKAEMENLRRRTEQDIEKAHKFALEKFVNELLPVIDSLDRALEVADKANPDMAAMVEGIELTLKSMLDVVRKFGVEVIAETNVPLDPNVHQAIAMVESEEVPAGNVLGIMQKGYTLNGRTIRAAMVTVAKAK |
| 2575 | sp|A6VYL6|HFQ\_MARMS | MSKGQSLQDPYLNILRKERVPVSIFLVNGIKLQGQIESFDQFVILLKNTVSQMVYKHAISTVVPSRTIRIPSPDQPEDDAE |
| 2576 | sp|B7KLH9|GRPE\_GLOC7 | MSEDNRPLEEQLGNRAESPNTPESVREDNSKSQNNHLNQPSSTPQTPETTADNTFVESELLQDSQGIEKLLATLAEQIGSTQEGQEILGQLQPLLTNLIQQNESLLQTNQSLKDQLEEQNQQIDAAKRRYIGLAAEFDNFRKRTLREKEELEKQAKRKTLSELLTVVDNFERARLQIKPSNEGEGEIHKSYQGVYKNLVDSLKRLGVSAMRAEGEPFDPMYHEAMLREPTNDFPEGTVIEQLVRGYLLDDQVLRHAMVKVAAPKEPDSSETESTSESVSDVQQPTT |
| 2577 | sp|Q9ZI76|HFQ\_PECCC | MVKGQSLQDPFLNALRRERVPVSIYLVNGIKLQGQIESFDQFVILLKNTVSQMVYKHAISTVVPSRPVSHHSNNPGGSNNYHGSNTTAQQQSQEADDAE |
| 2578 | sp|Q2RTR1|HFQ\_RHORT | MPAEKTQNVQDVFLNYIRKNKAPVTIFLVNGVKLQGIVTWFDNFSLLLRRDGHTQLVYKHAISTIMPASPVQLFEPTKEEVEA |
| 2579 | sp|B1YR39|HFQ\_BURA4 | MSNKGQLLQDPFLNALRKEHVPVSIYLVNGIKLQGNIESFDQYVVLLRNTVTQMVYKHAISTVVPARPVNFHPDAEATTS |
| 2580 | sp|A6QK89|LDH2\_STAAE | MKTFGKKVVLIGDGSVGSSYAFAMVTQGVADEFVIIDIAKDKVKADVQDLNHGTVHSPSPVDVKAGEYEDCKDADLVVITAGAPQKPGETRLQLVEKNTKIMKSIVKSVMDSGFDGYFLIAANPVDILTRFVKEYTGLPAERVIGSGTVLDSARLQYLISQELGVAPSSVDASIIGEHGDTELAVWSQANVAGISVYDTLKEQTGSEAKAEEIYVNTRDAAYEIIQAKGSTYYGIALALMRISKAILNNENNVLNVSIQLDGQYGGHKGVYLGVPTLVNQHGAVKIYEMPLSAEEQALFDKSVKTLEDTFDSIKYLLED |
| 2581 | sp|Q2FDQ7|LDH2\_STAA3 | MKTFGKKVVLIGDGSVGSSYAFAMVTQGVADEFVIIDIAKDKVKADVQDLNHGTVHSPSPVDVKAGEYEDCKDADLVVITAGAPQKPGETRLQLVEKNTKIMKSIVKSVMDSGFDGYFLIAANPVDILTRFVKEYTGLPAERVIGSGTVLDSARLQYLISQELGVAPSSVDASIIGEHGDTELAVWSQANVAGISVYDTLKEQTGSEAKAEEIYVNTRDAAYEIIQAKGSTYYGIALALMRISKAILNNENNVLNVSIQLDGQYGGHKGVYLGVPTLVNQHGAVKIYEMPLSAEEQALFDKSVKTLEDTFDSIKYLLED |
| 2582 | sp|B0TFI9|LON\_HELMI | MAEEEKIRQTIQELPLLPLRGIIVFPYMVMHLDVGRERSVNAIEEAMAQDRIIFLATQKEAQTDQPGAEDIYQIGVIAEIKQLLKLPGGTIRVLVEGLARAEILEYIDMEPLIRVRVREHIEPDVKSNAVEALMRSLINQFEQYVKISKKIPPETFVSVVAVEDPGRLTDTISSHLTLKTQDKQRILEALDVTERLEILTEILAREMEILELERKINVRVRKQMEKTQKEYYLREQIKAIQKELGEKEDRQAEGEDLRNKIAKAKLPKEVEEKALREVERLEKMPPMVAEATVVRNYLDWLLALPWAKQTKDRLDIDKAEAILNEDHFGLDKVKERIIEYLAIRKLAQKMKGPIICFVGPPGVGKTSLARSIARALERKFVRLSLGGVRDEAEIRGHRRTYVGAMPGRLIQGLRTAGSKNPVFLLDEIDKMSMDFRGDPASALLEVLDPEQNSTFSDHFIEVPFDLSKVLFITTANGMHNIPRPLLDRMEVIYIPGYTEEEKTRIALDHLVPKQLKEHGLKKEQVQISENTVRRLIREYTREAGVRNLEREIASLCRKSARAIVKNPERRLSISAGNLPSYLGIPRFRYGLAEAESQVGVATGLAWTETGGDTLAIEVAHMPGKGNLALTGKLGDVMKESAQASLTYVRSRARELGIADNFHQNTDIHIHVPEGAIPKDGPSAGITIATALTSALSRRPVRREVAMTGEITLRGRVLPVGGIKEKMLAANRAGCTTVILPAENKKDLEEVPANVKKKLRFVLVEHMDQVIREALLEPVPVQAPEPPETIPAAIETSVPVYQGMLEETPPGLQT |
| 2583 | sp|O06350|LIPF\_MYCTU | MRAPGVRAADGAGRVVLYLHGGAFVMCGPNSHSRIVNALSGFAESPVLIVDYRLIPKHSLGMALDDCHDAYQWLRARGYRPEQIVLAGDSAGGYLALALAQRLQCDDEKPAAIVAISPLLQLAKGPKQDHPNIGTDAMFPARAFDALAAWVRAAAAKNMVDGRPEDLYEPLDHIESSLPPTLIHVSGSEVLLHDAQLGAGKLAAAGVCAEVRVWPGQAHLFQLATPLVPEATRSLRQIGQFIRDATADSSLSPVHRSRYVAGSPRAASRGAFGQSPI |
| 2584 | sp|Q5ASP0|MIC19\_EMENI | MGAGSSKPEASAGSKHIFESNSPIQFSSNLVDGLQSNTETDSARAKSLELEIQNRVAKELERLRAREQQTLAEIEKRLSEAKDTGSFASAPSAPAVTHYPAGSLDLDAPRIPFAGREYAPPPPAAVEVAAVNKELNRESVNSEIEELRVKLEGRKKLAELDEGVAKAQKDVVSCLRLNDRRPLDCWKEVAEFKKEVARLEEGFVDRIVG |
| 2585 | sp|P70618|MK14\_RAT | MSQERPTFYRQELNKTVWEVPERYQNLSPVGSGAYGSVCAAFDTKTGHRVAVKKLSRPFQSIIHAKRTYRELRLLKHMKHENVIGLLDVFTPARSLEEFNDVYLVTHLMGADLNNIVKCQKLTDDHVQFLIYQILRGLKYIHSADIIHRDLKPSNLAVNEDCELKILDFGLARHTDDEMTGYVATRWYRAPEIMLNWMHYNQTVDIWSVGCIMAELLTGRTLFPGTDHIDQLKLILRLVGTPGAELLKKISSESARNYIQSLAQMPKMNFANVFIGANPLAVDLLEKMLVLDSDKRITAAQALAHAYFAQYHDPDDEPVAEPYDQSFESRDFLIDEWKSLTYDEVISFVPPPLDQEEMES |
| 2586 | sp|Q7XJ98|MUR3\_ARATH | MFPRVSMRRRSAEVSPTEPMEKGNGKNQTNRICLLVALSLFFWALLLYFHFVVLGTSNIDKQLQLQPSYAQSQPSSVSLRVDKFPIEPHAAPSKPPPKEPLVTIDKPILPPAPVANSSSTFKPPRIVESGKKQEFSFIRALKTVDNKSDPCGGKYIYVHNLPSKFNEDMLRDCKKLSLWTNMCKFTTNAGLGPPLENVEGVFSDEGWYATNQFAVDVIFSNRMKQYKCLTNDSSLAAAIFVPFYAGFDIARYLWGYNISRRDAASLELVDWLMKRPEWDIMRGKDHFLVAGRITWDFRRLSEEETDWGNKLLFLPAAKNMSMLVVESSPWNANDFGIPYPTYFHPAKDSEVFEWQDRMRNLERKWLFSFAGAPRPDNPKSIRGQIIDQCRNSNVGKLLECDFGESKCHAPSSIMQMFQSSLFCLQPQGDSYTRRSAFDSMLAGCIPVFFHPGSAYTQYTWHLPKNYTTYSVFIPEDDVRKRNISIEERLLQIPAKQVKIMRENVINLIPRLIYADPRSELETQKDAFDVSVQAVIDKVTRLRKNMIEGRTEYDYFVEENSWKYALLEEGQREAGGHVWDPFFSKPKPGEDGSSDGNGGTTISADAAKNSWKSEQRDKTQ |
| 2587 | sp|Q8L636|NCL\_ARATH | MRFRSLISLLFLLFFTSSAYARFVSLNPSSTSLISDGIDGGSNLAGSGSVIKSVVSAPAEEKEEACEQTYGFMPCTKTALGNVFLILVYGFLMFTAATYLSAGSELLLEILGPGIVGGLFLPMLGALPDAMLIMVSGLSGDAATAQSQVSVGMGLLAGSTVMLLTVIWGTCTVVGKCDLRDSIAVNNQDTKGFHLKDSGVTVDIWTSYAARIMAISVIPFVIVQLPQMLGSTSGRQLSVLIALILSVLMLISYCVYQVFQPWIQRRRLAFAKHKHVISGILRHLKQHALGRLLDDEGQPDEHVIRKLFLTIDANNDGHLSAAELKALIIGISFEDIDFDKDDAVGKVLQDFDKTLDEQVDQEEFVRGIKQWLIQAMGGAPSGPEAGPRTMKFLDNFHVQTKREHALLGDNENGENDEEGGEVADPKWITIKAALLLLLGAAIAAAFADPLVDTVNNFSAATGIPSFFISFIALPLATNSSEAVSAIIFASRKKIRTASLTFSELCGGVTMNNILCLSVFLAIVYVRGLTWNFSSEVLVILIVCLVMGGFASFRTTYPLWTCFIAYLLYPFSLGLVYILDYWFGWS |
| 2588 | sp|P39666|NADC\_BACSU | MNHLQLKKLLNHFFLEDIGTGDLTSQSIFGEQSCEAEIVAKSEGIFAGAAIIKEGFSLLDENVQSILHKKDGDMLHKGEVIAELHGPAAALLSGERVVLNLIQRLSGIATMTREAVRCLDDEQIKICDTRKTTPGLRMLEKYAVRAGGGYNHRFGLYDGIMIKDNHIAACGSILEACKKARQAAGHMVNIEVEIETEEQLREAIAAGADVIMFDNCPPDTVRHFAKLTPANIKTEASGGITLESLPAFKGTGVNYISLGFLTHSVKSLDISMDVTLSNESVEECCYVNS |
| 2589 | sp|O07552|NHAX\_BACSU | MFHADRIIVAFDGSENSKKALLTAIDLAKTVNAAITVAHSHDMKDNQTVIDPPRPAAEASYISGGMTSVPDPLISDVTSPEPMIYEDRTEEVIAEARMMLNEQQADGDIDILEGDPAESIIEHANRISADMIVTGSRDQNRLKKLIFGSVSEKLSAKSDIPVLIVK |
| 2590 | sp|Q43875|NLT42\_HORVU | MARAAATQLVLVAMVAAMLIVATDAAISCGQVSSALSPCISYARGNGAKPPVACCSGVKRLAGAAQSTADKQAACKCIKSAAGGLNAGKAAGIPSMCGVSVPYAISASVDCSKIR |
| 2591 | sp|Q9XIC5|NAC17\_ARATH | MADSSPDSCFKGGKFSAPGFRFHPTDEELVMYYLKRKICRKRLRVNVIGVVDVYKMDPEELPGQSMLKTGDRQWFYFTPRSRKYPNAARSNRGTENGYWKATGKDRVIEYNSRSVGLKKTLVFYRGRAPSGERTDWVMHEYTMDEDELGRCKNPQEYYALYKLFKKSGAGPKNGEQYGAPFQEEEWVDDDNEDVNAIAVAVPEQPVVRYEDARRVDERRLFNPVILQLEDIDELLNGIPNAPGVPQRCIPQVNSEEELQSTLVNNSAREFLPNGQQYNRPSSFDSLETAEVTSAPLVFEKEDFIEMDDLLLIPEFGASSTEKAAQFSNHGEFDDFNEFDQLFHDVSMSLDMEPIDQGTSANLSSLSDSANYTSDQKQQLLYQQFQDQTPENQLNNIMDPSTTLNQITSDIWFEDDQAILFDQQQSFSGAFASPSSGVMPDSTNPTMSVNAQGHEIQNGGGTTSQFSSALWALMDSIPSTPASACEGPLNRTFVRMSSFSRMRFNGKANGTPVSTTIAKKGIRNRGFLLLSIVGALCAIFWVLVATVRVSGRSLLLKD |
| 2592 | sp|P29779|OV252\_ONCVO | QTSPMERFIVNLLDSTFDDRSSRPLHSVAPYWLHQPELNECNIGNSLGEVINEKDKFAVRADVSHFHPKELSVSVRDRELVIEGHHEERTDPAGHGSIERHFIRKYVLPEEVQPDTIESHLSDKGVLTISANKTAIGTTASRNIPIRASPKEPEANQKSAINDAKQ |
| 2593 | sp|P0C937|DNAK\_PORGI | MGKIIGIDLGTTNSCVSVLEGNEPIVITNSEGKRTTPSVVAFVDGGERKVGDPAKRQAITNPTKTIYSIKRFMGETYDQVSREVERVPFKVVRGDNNTPRVDIDGRLYTPQEISAMILQKMKKTAEDYLGQEVTEAVITVPAYFNDAQRQATKEAGEIAGLKVRRIVNEPTAASLAYGLDKSNKDMKIAVFDLGGGTFDISILELGDGVFEVKSTNGDTHLGGDDFDHVIIDWLAEEFKSQEGVDLRQDPMAMQRLKEAAEKAKIELSSTSSTEINLPYIMPVNGIPKHLVMTLTRAKFEQLADRLIQACVAPCETALKDAGMSRGDIDEVILVGGSTRIPAIQEIVEKIFGKAPSKGVNPDEVVAVGAAIQGGVLTGEVKDVLLLDVTPLSLGIETMGGVMTRLIDANTTIPTKKSEIFTTAVDNQPSVEIHVLQGERSLAKDNKSIGRFNLDGIAPAPRQTPQIEVTFDIDANGILNVTAHDKATGKKQNIRIEASSGLSDDEIKRMKEEAQANAEADKKEKERIDKINQADSMIFQTEKQLKELGDKFPADKKAPIDTALDKLKEAHKAQDVAAIDTAMAELQTALSAAGEELYKNAGAAQGGAQPGPDFGGAQGPSAGDQPSDDKNVTDVDFEEVK |
| 2594 | sp|Q31HA6|DNAJ\_HYDCU | MSKRDYYEILEVSATASEGEIKKAYRKLAMRYHPDRNPDDEEAEDKFKEASEAYEVLSDAQKRQAYDQFGHAGVDGSAGQGGFGGGGFADFGDIFGDIFGGGFGGGHRGPQPGSDLQYELEVSLEDAVAGTTVDVRIPTKELCESCDGSGAEPGSDVQTCPTCQGIGQVRVQQGFFAVSRTCPNCHGTGKLVKTPCKTCRGEGYKHSSKTLSVKIPAGVDNGDRIRLQGEGEAGEPGAPHGDLYVRIRVKEHKIFQRDGNTLFCDMPLSFATATLGGTMDVPTLNGKANLKIPAGTQSGQRFKLAGKGVKSVRSSHVGDMIVEVHIETPVKLTSEQKELLKAFDESLQGKHHKQHSPKTHSFFDSVKAFFKGDDEDGGNDKKDGPWN |
| 2595 | sp|Q0HY11|DNAK\_SHESR | MGKIIGIDLGTTNSCVAVLDGGKARVLENAEGDRTTPSIIAYTDDETIVGQPAKRQAVTNPNNTFFAIKRLIGRRFKDDEVQRDVNIMPFKIIQADNGDAWVESRGNKMAPPQVSAEILKKMKKTAEDFLGEEVTEAVITVPAYFNDSQRQATKDAGRIAGLEVKRIINEPTAAALAYGIDKKQGDNIVAVYDLGGGTFDISIIEIDSNDGDQTFEVLATNGDTHLGGEDFDNRLINYLADEFKKEQGLDLRKDPLAMQRLKEAAEKAKIELSSTNQTEVNLPYITADATGPKHLVVKITRAKLESLVEDLIIRTLEPLKVALADADLSVSDINEVILVGGQTRMPKVQEAVSNFFGKEPRKDVNPDEAVAVGAAIQAGVLSGDVKDVLLLDVTPLSLGIETMGSVMTKLIEKNTTIPTKAQQVFSTADDNQSAVTIHVLQGERKQASANKSLGQFNLDGIEPAPRGMPQIEVMFDIDADGILHVSATDKKTGKKQNITIKASSGLSEEEVAQMVRDAEAHAEEDKKFEELVQSRNQADGLVHATKKQVEEAGDALPADDKAKIEAAMSAVEVATKGNDKEAIEKATQELIEASAKLMEIAQAKAQTQGGAQEGAAKQSNATADDVVDAEFEEVKDDKK |
| 2596 | sp|A8ALU3|DNAK\_CITK8 | MGKIIGIDLGTTNSCVAIMDGTTARVLENAEGDRTTPSIIAYTQDGETLVGQPAKRQAVTNPQNTLFAIKRLIGRRFQDEEVQRDVSIMPYKIIGADNGDAWLDVKGQKMAPPQISAEVLKKMKKTAEDYLGEPVTEAVITVPAYFNDAQRQATKDAGRIAGLEVKRIINEPTAAALAYGLDKEVGNRTIAVYDLGGGTFDISIIEIDEVDGEKTFEVLATNGDTHLGGEDFDSRMINYLVEEFKKDQGIDLRNDPLAMQRLKEAAEKAKIELSSAQQTDVNLPYITADATGPKHMNIKVTRAKLESLVEDLVNRSIEPLKVALQDAGLSVSDINDVILVGGQTRMPMVQKKVAEFFGKEPRKDVNPDEAVAIGAAVQGGVLTGDVKDVLLLDVTPLSLGIETMGGVMTALISKNTTIPTKHSQVFSTAEDNQSAVTIHVLQGERKRASDNKSLGQFNLDGINPAPRGMPQIEVTFDIDADGILHVSAKDKNSGKEQKITIKASSGLNEDEIQKMVRDAEANAESDRKFEELVQTRNQGDHLLHSTRKQVEEAGDQLPADDKTAIESALSALETALKGEDKAAIEAKMQELAQASQKLMEIAQQQHAQQQAGGADASANNAKDDDVVDAEFEEVKDKK |
| 2597 | sp|Q28VY4|DNAJ\_JANSC | MAKRDYYEVLGVSKGASADEIKKGFRTKAKELHPDRNADNPEAESQFKEANEAYDVLKDADKKAAYDRFGHAAFDGGMAGGPRGGGGQGQGDFASAFSDVFEDLFGDFMGGQRGRPGGARTQATRGSDLRYNLSITLEDAYNGLSKQITVPSSVACSSCDGTGSEAGAEPTSCPTCSGMGKVRAQQGFFTVERTCPTCNGMGQIVKNPCRTCGGAGRQEKDRALSVNIPAGVETGTRIRLSGEGEAGLRGGPAGDLYIFVEVQDHALFQRDGMDLFCRVPVSMVSAALGGEIEVPSIDGGRSRVRVPEGSQSGRQMRLRGKGMPALRGPGLGEMYIELMVETPVNLTGDQAELLRQFEESCKKTNNPNASGFFDKVKSFWDKVRD |
| 2598 | sp|B8ZTB7|DNAK\_MYCLB | MARAVGIDLGTTNSVVSVLEGGDPVVVANSEGSRTTPSTVAFARNGEVLVGQPAKNQAVTNVDRTIRSVKRHMGSDWSIEIDGKKYTAQEISARVLMKLKRDAEAYLGEDITDAVITTPAYFNDAQRQATKEAGQIAGLNVLRIVNEPTAAALAYGLDKGEREQTILVFDLGGGTFDVSLLEIGEGVVEVRATSGDNHLGGDDWDDRIVNWLVDKFKGTSGIDLTKDKMAMQRLREAAEKAKIELSSSQSTSVNLPYITVDSDKNPLFLDEQLIRAEFQRITQDLLDRTRQPFQSVVKDAGISVSEIDHVVLVGGSTRMPAVTDLVKELTGGKEPNKGVNPDEVVAVGAALQAGVLKGEVKDVLLLDVTPLSLGIETKGGVMTKLIERNTTIPTKRSETFTTADDNQPSVQIQVYQGEREIASHNKLLGSFELTGIPPAPRGVPQIEVTFDIDANGIVHVTAKDKGTGKENTIKIQEGSGLSKEEIDRMVKDAEAHAEEDRKRREEADVRNQAETLVYQTEKFVKEQRETENGSRVPEDTLNKVEAAVAEAKTALGGTDISAIKSAMEKLGQDSQALGQAIYEATQAASKVGGEASAPGGSNSTDDVVDAEVVDDERESK |
| 2599 | sp|A3DF24|DNAJ\_HUNT2 | MAGKRDYYEILGVDRGASDAEIKKAYRKLAKQYHPDMNPGDKAAEAKFKEINEAYEVLSDPQKRARYDQFGHSAFDPNGFGGGGFGGGFTGGFGDFDFGGFGDIFEAFFGSGFGTRTSSARRGPQKGADLKYSMEVSFEEAAFGTEKEVTVSRLEICPTCSGSGTKPGHQPVTCRQCNGTGQVQYKQRTPFGQIVNVRTCDVCHGEGKIITNPCETCGGKGRVRKHTKLKVRIPAGIDNGETISLRGEGEHGIKGGPSGDLFITIKVKPHPIFKRHGNDVNCEIPITFTQAALGAEIEVPTLDGKEKIVIPEGTQTGTVFKLKGKGIPFLRSSGRGDQYVKVNIEVPRKLNEKQKEVLRQFAELVGDEVHEQRKGFFNKMKDALGM |
| 2600 | sp|P0A9P6|DEAD\_ECOLI | MAEFETTFADLGLKAPILEALNDLGYEKPSPIQAECIPHLLNGRDVLGMAQTGSGKTAAFSLPLLQNLDPELKAPQILVLAPTRELAVQVAEAMTDFSKHMRGVNVVALYGGQRYDVQLRALRQGPQIVVGTPGRLLDHLKRGTLDLSKLSGLVLDEADEMLRMGFIEDVETIMAQIPEGHQTALFSATMPEAIRRITRRFMKEPQEVRIQSSVTTRPDISQSYWTVWGMRKNEALVRFLEAEDFDAAIIFVRTKNATLEVAEALERNGYNSAALNGDMNQALREQTLERLKDGRLDILIATDVAARGLDVERISLVVNYDIPMDSESYVHRIGRTGRAGRAGRALLFVENRERRLLRNIERTMKLTIPEVELPNAELLGKRRLEKFAAKVQQQLESSDLDQYRALLSKIQPTAEGEELDLETLAAALLKMAQGERTLIVPPDAPMRPKREFRDRDDRGPRDRNDRGPRGDREDRPRRERRDVGDMQLYRIEVGRDDGVEVRHIVGAIANEGDISSRYIGNIKLFASHSTIELPKGMPGEVLQHFTRTRILNKPMNMQLLGDAQPHTGGERRGGGRGFGGERREGGRNFSGERREGGRGDGRRFSGERREGRAPRRDDSTGRRRFGGDA |
| 2601 | sp|Q3YRR6|DNAK\_EHRCJ | MAVIGIDLGTTNSCVAVMEGGDAKAIENSEGARTTPSIVAFTDSERLVGDPAKRQATTNAKNTIYASKRLIGRRYQDVKDIKSSYEVVSAKNGDAWIKVLGKEYSPSQIGAFVLEKMKETAERHLGHKVEKAVITVPAYFNDAQRQATKDAGKIAGLDVIRIINEPTAAALAYGLNKSDKQKVIAVYDLGGGTFDVSILEIADGVFEVKATNGDTMLGGEDFDHAIMDYLMDDFKKTTGIDLHNDAMAVQRIKEASEKAKIELSNRMETDINLPFISSDSTGPKHLSLKLTRAKFENLVDDLIQRTIEPCKKALKDAGISADKIDEVVLVGGMTRVPKVIQKVKEFFGREPHKGVNPDEVVAIGAAIQGSILAGDVRDVLLLDVTPLSLGIETLGGVFTPLIERNTTIPTKKSQVFSTAEDGQTAVTIKVYQGERKMAADNKLLGQFSLEGIPSAPRGMPQIEVTFDIDANGIVHVSAKDKASGKEQAIKIQSSGGLSDDEIQRMIKEAEQKAGEDEKRKKFIELKNNGENLVHSTEKSLNEYGDKIPNSDRLEIENAIRDVRDALGNSDVESVDILQQKVDHLMKVSMKLGEALYGNANNTSSTESTTTNNNNEEDSKVVDSDYQEIDKKDGK |
| 2602 | sp|Q9K0N4|DNAK\_NEIMB | MAKVIGIDLGTTNSCLAISENGQTKVIENAEGARTTPSVIAYLDGGEILVGAPAKRQAVTNAKNTIYAAKRLIGHKFEDKEVQRDIESMPFEIIKANNGDAWVKAQGKELSPPQISAEVLRKMKEAAEAYLGEKVTEAVITVPAYFNDSQRQATKDAGRIAGLDVKRIINEPTAAALAFGMDKGDNKDRKVAVYDLGGGTFDISIIEIANLDGDKQFEVLATNGDTFLGGEDFDQRLIDHIIAEFKKEQGIDLKQDVMALQRLKEAAEKAKIELSSGQQTEINLPYITMDATGPKHLAMKITRAKFESLVEDLITRSIEPCKIALKDAGLSTGDIDDVILVGGQSRMPKVQEAVKAFFGKEPRKDVNPDEAVAVGAAIQGEVLSGGRSDVLLLDVTPLSLGIETMGGVMTKLIQKNTTIPTKASQVFSTAEDNQSAVTIHVLQGERERASANKSLGQFNLGDIAPAPRGMPQIEVTFDIDANGILHVSAKDKGTGKAANITIQGSSGLSEEEIERMVKDAEANAEEDKKLTELVASRNQAEALIHSVKKSLADYGDKLDAAEKEKIEAALKEAEEAVKGDDKAAIDAKTEALGAASQKLGEMVYAQAQAEAQAGESEQANASAKKDDDVVDADFEEVKDDKK |
| 2603 | sp|B7IBK5|DNAK\_ACIB5 | MAKIIGIDLGTTNSCVAVLEGDKVKVIENAEGARTTPSIIAYKDGEILVGQSAKRQAVTNPKNTLFAIKRLIGRRYEDQAVQKDIGLVPYKIIKADNGDAWVEVNDKKLAPQQISAEILKKMKKTAEDYLGETVTEAVITVPAYFNDAQRQATKDAGKIAGLDVKRIINEPTAAALAFGMDKKEGDRKVAVYDLGGGTFDVSIIEIADLDGDQQIEVLSTNGDTFLGGEDFDNALIEYLVEEFKKEQNVNLKNDPLALQRLKEAAEKAKIELSSSNATEINLPYITADATGPKHLVINVTRAKLEGLVADLVARTIEPCKIALKDAGLSTSDISDVILVGGQSRMPLVQQKVQEFFGREPRKDVNPDEAVAIGAAIQGAVLSGDKNDVLLLDVTPLTLGIETMGGVLTPIIEKNTTIPAKKSQVFSTAADNQPAVDISVYQGERKMAQQNKLLGNFQLGDIPPAPRGVPQIEVSFDINADGILKVSAKDKSTGKEQSIQIKANSGLSDAEIEAMIKDAEANAEEDRKFEELAKARNEADALISSSNKAVKDLGDKVTEDEKTAVNTAVSELEAATKENDVEVIKAKTEALQNILMPITQRAYEQAQQAGGAEGFDPNAFQGGDAGQQKADDGVVDAEFTEVKDDKK |
| 2604 | sp|P22305|DNAJ\_CAUVC | MRDYYEILGVTRTIDEAGLKSAFRKLAMEHHPDRNGGCENAAGRFKEINEAYSVLSDPQKRAAYDRFGHAGVNGPQGGPGGFGGQGFDASDIFNDVFGDVFGEMFGGGRRQSNAPQRGQDLRYDLEITLEQAYAGAEVEITVPAAMTCEVCEGSGAKPGTSPSVCGTCGGAGRVRATQGFFAVERGCPRCGGSGRLVLDPCSNCHGHGQVRRERILSVRIPAGVDDGARIRLAGEGDAGARGGPRGDLYIFLSVTPHELFERDGLDLLCTVPVPMTTAALGGEIDAPCLLGGESCDGECKVKVHVPEGAQTGKTVRLKGKGMPSLRSRQRGDLVVELFVETPTHLSARQKELMRELAGLCGEKQNPKSANFVGKAKRFWEEVTGS |
| 2605 | sp|P28616|DNAJ\_BORBU | MKKDYYEILGLSKGASKDEIKKAYRKIAIKYHPDRNQGNEEAASIFKEATQAYEILIDDNKKAKYDRFGHSAFEGGGFEGFSGGFSGFSDIFEDFGDIFDSFFTGNKGQERNRKHAKGEDLGYNIEISLENAYFGYKNNINITRQMLCDSCLGKKSEKGTSPSICNMCNGSGRVVQGGGFFRVTTTCSKCYGEGKIISNPCKSCKGKGSLTKQETIQLNIPPGIDNNQQIKMKGKGNVNPDNQEYGDLYVKILIRSHKVFKRNGKDLYAMLPISFTQAALGKEVKIKTIASKEIKIHIPKGINNEEQILIKNAGMPILQTEKFGNLILITKIKTPKNLNSNAIKLFENLGKELKDGDEIDLLKA |
| 2606 | sp|A9KKT9|DNAJ\_LACP7 | MADKRDYYEVLGISKSASDDEIKKAYRKLAKQYHPDANPGDQTAEAKFKEASEAYAVLSDPEKKRQFDQFGHAAFEQGGGGAGGFDFNMGDMGDIFGDIFGDIFGGGRRSRASNGPMNGANLRTAIRITFEEAVFGCEKELELSLKDECETCHGSGAKPGSSAETCHKCNGKGQVTFTQQSLFGMVRNVQTCPDCRGTGKIIKEKCPDCYGSGYISRKKKIQVSVPAGIDNGQSIRIRGKGEPGTNGGERGDLLVEVNVSRHPIFQRQDYDIYSTAPMTFTQAALGGDVRISTVDGDVLYEVKPGTQTDTKVRLRGKGVPTLRNKDVRGDHYVTLVVQVPTKLNNEQKDLLKKFEESVSGKKSEDTTTEDTKEKKKKFFGK |
| 2607 | sp|P95334|DNAK\_MYXXD | MGKVIGIDLGTTNSCVAVMEGGEPVVIPNSEGSRTTPSMVGFTDSGERLVGQIAKRQAITNPENTVFAAKRLIGRKFDSPEGKKAIGVSPFKVASSPNGDAWVEIRGKGYSPPEVSAIVLMKMKQTAEDYLGEQVSEAVITVPAYFNDSQRQATKDAGRIAGLSVLRIINEPTAAALAYGLDKVQDGGTERIAVYDLGGGTFDISILELNAGVFEVKSTNGDTFLGGEDFDQRLIDYLAKRFAESNNGLDLRKDRMALQRLKEAAERAKHELSSAPETEVNLPFITADASGPKHLTETVDRATFEALVTDLIDRTIEPCRIALKDAGIPAQQINQVLLVGGMTRMPRVQQKVKEFFGREPHKGINPDEVVAVGAAIQGGVLKGEVKDVLLLDVTPLSLGVETAGGVFTKIIDKNTTIPCKKSQVFSTAVDNQPLVSVHVLQGEREMAADNKTLARFELVGIPPAPRGVPQIEVSFDIDANGIVHVSAKDLGTGKVQQVRVVSNSGLSEAEIQAMISDAQSHASDDKKKKELAELRNNADGLIYTTEKSLEEYASLLSEKDREEIKADLERLKEVLNTSDAAVLKESFQRLEGSAYRIADAIYTGQAS |
| 2608 | sp|Q04VC8|DNAK\_LEPBJ | MSKEKIIGIDLGTTNSVVSVMEGGDPVVIQNSEGARTTPSIVAFTAKGENLVGQFAKNQAITNAVNTIRSAKRFIGRRIGECESEMKHVSYKVIRSGNEGVKFETSAGEFTPQEISARVLMKMKQTAEDYLGQKVTKAVITVPAYFNDEQRQATKDAGRIAGLEVERIINEPTAAALAYGFDKKNVNSKIAVYDLGGGTFDISILELADGVFEVKSTNGDTHLGGDDFDMAIMEWMISEFKNQTGIDISADKNTVQRLKEAAEKAKIELSGTMSTQINLPFITADASGPKHLDMTLSRAKFDQLTKSLVDRTRIPCENALRDAGLKASDINEVILVGGSIRIPAVQELVKQIFGKEPNKSVNPDEVVAVGAAIQGGVLAGEVSDVLLLDVTPLSLGIETLGGVMTKLIERNTTIPTKKSQVFSTAADNQSAVSIHVLQGEREMASANRTLGRFDLIGIPPAPRGVPQIEVTFDIDANGIVHVSAKDLGTGKEQKIRIESSSGLSEDEIQKMVKDAEAHAAADKAQREVIEAKNELDTLAYSLEKTVNEAGDKIGASEKQLATDEVKRAREAIESNDKARMESAKASISKIASDIATKVYSQGAPGAEQAAGSTGPDQGQNDQGNSGNNGEKVVDADYTVVDDEKK |
| 2609 | sp|A0M353|DNAK\_GRAFK | MSKVIGIDLGTTNSCVAVMEGSEPTVIPNAEGKRTTPSVIAFVEGGEIKVGDPAKRQAVTNPTKTISSIKRFMGNKYSESSREAGRVPYTVKKGDNDTPRVEIDGRLYTPQELSAMVLQKMKKTAEDYLGQDVTEAVITVPAYFNDSQRHATKEAGEIAGLKVRRIINEPTAAALAYGLDKKSQDQKIAVYDLGGGTFDISILELGDGVFEVLSTNGDTHLGGDDFDEVLIDYLADNFKKAEDIDLRKDPMALQRLKEAAEKAKIELSSSSQTEINLPYVTATSSGPKHLVETISRSKFEQLAAELVTRSMEPVKKALSDAGLSKSDIDEVILVGGSTRIPKIQEEVEAFFGKKPSKGVNPDEVVAIGAAIQGGVLTGDVKDVLLLDVTPLSLGIETMGGVNTKLIESNTTIPTKKSQTFSTAADNQPSVEIHVLQGERPMATDNKTIGRFHLDGIPPSPRGTPQIEVTFDIDANGIIKVSATDKATGKSQDIRIEASSGLTEEEIEKMKKEAEANADADKQTKEKVDKLNEADAMIFQTEKQLKEFGDKISEDKKKPVEEALEELKKAYETKELDQITPALDKINEAWKTASEEMYKAQAEAQGGANGQPGGPQQGATGAEGGDAKSGDDVEDVDFEEVK |
| 2610 | sp|Q1CV46|DNAK\_HELPH | MGKVIGIDLGTTNSAMAVYEGNEAKIIANKEGKNTTPSIVAFTDKGEILVGESAKRQAVTNPEKTIYSIKRIMGLMFNEDKAKEAEKRLPYKIVDRNGACAIEISGKVYTPQEISAKILMKLKEDAESYLGESVTEAVITVPAYFNDSQRKATKEAGTIAGLNVLRIINEPTSAALAYGLDKKESEKIMVYDLGGGTFDVTVLETGDNVVEVLATGGDAFLGGDDFDNRVIDFLASEFKSETGIEIKNDVMALQRLKEAAENAKKELSSAMETEINLPFITADATGPKHLVKKLTRAKFESLTEDLMEETISKIESVIKDAGLTKNEISEVVMVGGSTRIPKVQERVKAFINKELNKSVNPDEVVAVGASIQGGVLKGDVKDVLLLDVTPLSLGIETLGGVMTKVIDRGTTIPAKKSQVFSTAEDNQPAVSIMVLQGERELARDNKSLGKFDLQGIAPAPRGVPQIEVTFDIDANGILTVSAQDKNTGKSQEIKISGSSGLSDSEIEKMVKDAELHKEEDARKKEVIEARNHADSLAHQTQKSLDEHKTNLNENDANEIQNAINALKDCIKNDNATKAELEDKTKALAQAAQKLGEAMANKNNAEQPKKKDDDVIDAEVE |
| 2611 | sp|Q7VVY3|DNAJ\_BORPE | MAKRDYYEVLGVAKNASDEDLKKAYRKLAMKYHPDRNPDSKEAEEKFKEAKEAYEVLGDEQKRAAYDRYGHAGVDPNAAGMGGGMGGGMGGGMGGGMGGGFADAFGDIFGEIFGAGRRGGGGPQVYRGADLKYALEITLEQAASGFDTEIRVPSWENCDTCHGSGAKAGTSPKTCRTCGGSGAVRMQQGFFSVQQTCPTCHGTGKEITDPCPSCDGVGRTRRNKTLQVKIPAGIDDGMRIRSSGNGEPGINGGPPGDLYVEIHIKQHKIFQRDGDDLHCELTIPFTTAALGGELQVPTLGGKAEISIPEGTQSGKTFRLRAKGIRGVRGSYPGDLYCHVVVETPVRLSDEQKAILRQFEASLNDGGDRHSPQSKSWTDRVKEFFS |
| 2612 | sp|Q8KCD8|DNAJ\_CHLTE | MKRDYYEILGVARSADKDEIKKAYRKLALKYHPDKNPDNKEAEEKFKEVNEAYEVLSNDDKRRRYDQFGHAGVGSSAASGSGPGGAGYGDINDIFSAFNDMFSGGGGRARTGGSPFSGFEDVFSGGFSGSGSGRRRSAGIQGTDLKIRLKLTLEEIAKGVEKTIKIKKLVTCRECNGTGSKSGKTEICPTCHGSGEVRQATKTMFGQFMNISVCPTCGGEGRVVKDRCPSCYGEGIKQGEATVKITVPAGVQDGNYLTLQGQGNAGPRGGAPGDLIVVIEEKPHELFKRNGDDIIYDLSVGFPDLVMGTKIEVPTLDGHVKLTIPAGTQPNTMLRIGGKGIGHLRGGGSGDLYVRVNVFVPKEVSGKDRDLLKELKKSTVICPNHGDENHEKSIFEKAKDIFS |
| 2613 | sp|Q2YT47|DNAK\_STAAB | MSKIIGIDLGTTNSCVTVLEGDEPKVIQNPEGSRTTPSVVAFKNGETQVGEVAKRQAITNPNTVQSIKRHMGTDYKVDIEGKSYTPQEISAMILQNLKNTAESYLGEKVDKAVITVPAYFNDAERQATKDAGKIAGLEVERIINEPTAAALAYGLDKTDKDEKVLVFDLGGGTFDVSILELGDGVFEVLSTAGDNKLGGDDFDQVIIDYLVAEFKKENGVDLSQDKMALQRLKDAAEKAKKDLSGVSQTQISLPFISAGENGPLHLEVNLTRSKFEELSDSLIRRTMGPTRQAMKDAGLTNSDIDEVILVGGSTRIPAVQEAVKKEIGKETNKGVNPDEVVAMGAAIQGGVITGDVKDVVLLDVTPLSLGIEILGGRMNTLIERNTTIPTSKSQIYSTAVDNQPSVDVHVLQGERPMAADNKTLGRFQLTDIPPAERGKPQIEVTFDIDKNGIVNVTAKDLGTNKEQRITIQSSSSLSDEEIDRMVKDAEVNAEADKKRREEVDLRNEADSLVFQVEKTLTDLGENIGEEDKKSAEEKKDALKTALEGQDIEDIKSKKEELEKVIQELSAKVYEQVAQQQQQAQGANAGQNNDSTVEDAEFKEVKDDDKK |
| 2614 | sp|Q67UK9|DHAR2\_ORYSJ | MAVLLRTTTSATTATSGGSSSATALLATTFRRGGRRLLLLPATRGSAPRRAALLTARASAEPLEVCAKASLTVPDRLGDCPFTQRVLLTIEEKHLPYDIKLVDLANKPDWFLKISPEGKVPIVKLEEQWVADSDVITQAIEEKYPEPSLATPPEKASVGSKIFSTFIGFLKSKDPNDGTEQALLSELTSFDSYLKDNGPFINGETISAADLSLAPKLYHMEIALGHYKNWSVPDSLSHVKKYMKTIFSMDSFVKTIALQEDVIAGWRPKVMG |
| 2615 | sp|A2RCW6|DNAK\_STRPG | MSKIIGIDLGTTNSAVAVLEGTESKIIANPEGNRTTPSVVSFKNGEIIVGDAAKRQAVTNPETVISIKSKMGTSEKVSANGKEYTPQEISAMILQYLKGYAEDYLGEKVEKAVITVPAYFNDAQRQATKDAGKIAGLEVERIVNEPTAAALAYGMDKTDKDEKILVFDLGGGTFDVSILELGDGVFDVLATAGDNKLGGDDFDQKIIDFLVAEFKKENGIDLSQDKMALQRLKDAAEKAKKDLSGVTQTQISLPFITAGSAGPLHLEMSLSRAKFDDLTRDLVERTKTPVRQALSDAGLSLSEIDEVILVGGSTRIPAVVEAVKAETGKEPNKSVNPDEVVAMGAAIQGGVITGDVKDVVLLDVTPLSLGIETMGGVFTKLIDRNTTIPTSKSQVFSTAADNQPAVDIHVLQGERPMAADNKTLGRFQLTDIPAAPRGIPQIEVTFDIDKNGIVSVKAKDLGTQKEQHIVIKSNDGLSEEEIDRMMKDAEANAEADAKRKEEVDLKNEVDQAIFATEKTIKETEGKGFDTERDAAQSALDELKAAQESGNLDDMKAKLEALNEKAQALAVKMYEQAAAAQQAAQGAEGAQANDSANNDDVVDGEFTEK |
| 2616 | sp|A7X2Y1|DNAK\_STAA1 | MSKIIGIDLGTTNSCVTVLEGDEPKVIQNPEGSRTTPSVVAFKNGETQVGEVAKRQAITNPNTVQSIKRHMGTDYKVDIEGKSYTPQEISAMILQNLKNTAESYLGEKVDKAVITVPAYFNDAERQATKDAGKIAGLEVERIINEPTAAALAYGLDKTDKDEKVLVFDLGGGTFDVSILELGDGVFEVLSTAGDNKLGGDDFDQVIIDYLVAEFKKENGVDLSQDKMALQRLKDAAEKAKKDLSGVSQTQISLPFISAGENGPLHLEVNLTRSKFEELSDSLIRRTMEPTRQAMKDAGLTNSDIDEVILVGGSTRIPAVQEAVKKEIGKEPNKGVNPDEVVAMGAAIQGGVITGDVKDVVLLDVTPLSLGIEILGGRMNTLIERNTTIPTSKSQIYSTAVDNQPSVDVHVLQGERPMAADNKTLGRFQLTDIPPAERGKPQIEVTFDIDKNGIVNVTAKDLGTNKEQRITIQSSSSLSDEEIDRMVKDAEVNAEADKKRREEVDLRNEADSLVFQVEKTLTDLGENIGEEDKKSAEEKKDALKTALEGQDIEDIKSKKEELEKVIQELSAKVYEQAAQQQQQAQGANAGQNNDSTVEDAEFKEVKDDDKK |
| 2617 | sp|Q9NIV1|E2AK3\_DROME | MQDDLDGIVRHRRRSLSFLQIVTLTMAGLVAFDPAQVLAGHPTTDSELQTAGSPRPPGLEHCVDQEERRVARRLLYISTLDGRLSALDIAKSGKLRWSVPTGPGPLISSSIHRLELTNNGQFVRMIPSLSGGIYKFDGDSIDPIPITAEHLLSSSAKFSDDLVISGGKETRSYGVSVRTGQLLYECSLNGCVNSTEEGLAIDDTIREPDEEDQLEDGEQLRDEAGYIVRHDPLLDDVIIVRRQTQTVRAVESRTGVERWNFSVGQHELDLVRPSECQLQPRDELELAVLDVDIKVVVPEGIICAFSKSEPQTMLWKYKFDHPIVSAWNTNADDELQPIDLFSSAQWLWDQDENDTELPNAPQSPPSIYLGMYDKQLYIQESIRLRQEIMDQTKVYQQLTGDTSLMPRIPWKPISASSKSLVIFRKDQEDPEMIAEGAVAQGGELVPYDDENFAVAAQSVLNASEFVNGNGFYFYTTGDLNGPQECSTQNNPTDLPAITAPTSPTNATSEGTEATGNHSVNDDLGFSLDDIDAPVKVVILSLWFWWKEIVVIAFTSAVILNIFMGQRNQRVEREYLVIERHVPVQTAIEATEASTQALLGPVVPMQRPGNRFSFPPGQANQRTISESTTHSGEHYTSRFQSDFELMQCLGRGGFGVVFEAKNKLDENRYAIKRITLPNKESSRQRVLREARTLASCEHHNIVRYFHSWTETPPTGWQEEEDRKLLAHELSTSIQIETPDDSTMPSLTEQLKEKRQQQLLSWVSDAANSTACSHDFHLPGESSLKNIREEYDYDEEEDSLIEFRSESQSAALRAEEEDDTDDDYEEDEEQQGDHEKRHRSSVSIDIHSASFDLKNINYSQHQLVSNSFQIESVRPKSSGSDDANDDNKARRKPLTLALAQNHNNNQNGSQPTPSSATILNGTVAKPSKVYLYIQMQLCRKESLRDWLRDNRSETRAAHIGDIFHQIVDAVDYVHLKGLIHRDLKPSNIFFSQDGQIKIGDFGLVTDMADIPNLVAKCGDQSGLPSCARHTQQVGTHLYMSPEQLLGQHYDYKVDIYSLGLIFFELHVYFSTEMERIKTLRSLRDGQYPKDFAVNYPQQYDLLQQMLSAQPEQRPQTKQLKSQLRNILQLPHLLSEGQSEQAELAERARRLSRSRTFSSSSEPHQ |
| 2618 | sp|A3PA63|GRPE\_PROM0 | MIENQSDNIDNKEIDVSIQDNAPEDKSSMQNSTTENDELSSQKTEEINTEELKNTISNNDARLEQLEKEHETLKNQYVRISADFDNFRKRQSRDQDDLKIQLVSKTLTAILPIVDNFERARQQLKPESEEAQALHRSYQGLYKQLVEVLKQQGVSPMRVVGQQFDPNLHEAVLREPSEEFEEDFIIEELQRGYHLEGKVLRHALAKVSMGPGKQKSQQEVEKDTVEGDVDSDANTSEDV |
| 2619 | sp|B0R3H6|GRPE\_HALS3 | MSDHAEHAADAADTDAPEGDDAGGDDGEQAGDDGTSALSERVRALDADNADALADDVAALEARVETLTDELADAEDEVADLTERVQTKQADFKNYKERAKRKQEEIRERATEDLVERLLDVRDNLDRALDQEESESDEDGIREGVELTRDEFDRVLETEGVTEIRPEPGDSVDAARHEVMMRVDSDQPAGTIVDVYRPGYEMSGRVVRAAQVTVSEE |
| 2620 | sp|Q21H35|GRPE\_SACD2 | MTNHEQDQQDNSELLDDDQVTLESQQAADSGAEAPASDDVAALQAEIARLNEELQTTKENALRAAAEAQNARRRAEQDVEKAHKFGLEKFVGDILPVADNLERAIDAAKAEGADLGVVVEGVELTLKTLVDGLKRHKVEQIDPQGEPFDPQLHQAMTMIEQPDVEPNTVINVFQRGYTLHGRLVRPAMVVVSKA |
| 2621 | sp|Q5ZTY2|GRPE\_LEGPH | MMSKQNKKDWKKFKDEHKEEHKVENEILEEETDEESQHQEPALGHPSYTALEEQLTLAEQKAHENWEKSVRALAELENVRRRMEREVANAHKYGVEKLISALLPVVDSLEQALQLADKNSDPSMHEGLELTMKLFLDALQKFDVEQIDPLGQTFDPQQHEAMSMQPAPGAPPNSVITVFQKGYKLSDRVIRPARVIVSTK |
| 2622 | sp|P42369|GRPE\_LACLM | MSEETKEEIKNEKVDEEVTEELTEEALEDIVEEEINELDEAQKLATEWENKFLRVSAEMQNVQRRGNEERLQLVKYRSQDLAKKILSSLDNLERALAVEGLTDDVKKGLEMVQESLISALKEEGVEEVSYESFDHNLHMAVQTVPADDEHPADSIVQVFQKGYQLHERLLRPAMVVVAQ |
| 2623 | sp|Q8EGS0|GRPE\_SHEON | MSNESIKAEQDLIHEGVESEVSTEEASLIDELTQANFRIEELEQLLADALAKVDEQKDSVIRAAAEVDNIRRRAAMDVEKANKFALEKFANELLPVLDNMERALQGTNPQDETTKAIYEGVELTQKSLLTAVAKFGVKQIDPQGQAFNPDQHQAIGMQPSAEFPTNTVMLVMQKGYELNSRLLRPAMVMVSQGGPSQESASIDIEA |
| 2624 | sp|A0B748|GRPE\_METTP | MADELSEKSVEGTEEDGESAPAEGTTEGVPVDEVAKLRQELEDVKRIADERLEQLLRCRAELDNVIKRNSREREELARFASEAIIKKLLVFLDSLEQAAKHDEGAKALYDQLLDIMRSEGLEPIDAVGKKFDPFVHEAMMQVESQEAEDGIVVQEFQKGYTLHSRVIRTSKVAVAKHG |
| 2625 | sp|B5RD90|GRPE\_SALG2 | MSSKEQKTPEGQAPEEIIMDQHEEVEAVEPNDSAEQVDPRDEKIANLEVQLAEAQTRERDTVLRIKAEMENLRRRTEQDIEKAHKFALEKFVNELLPVIDSLDRALEVADKANPDMAAMVEGIELTLKSMLDVVRKFGVEVIAETNVPMDPNVHQAIAMVESEEVPAGNVLGIMQKGYTLNGRTIRAAMVTVAKAK |
| 2626 | sp|Q9EYZ5|HFQ\_PHOPR | MAKGQSLQDPFLNALRRERIPVSIYLVNGIKLQGQIESFDQFVILLKNTVNQMVYKHAISTVVPARPVNHHHASDRPATLEKTEE |
| 2627 | sp|A6X120|HFQ\_OCHA4 | MAERSQNLQDLFLNSVRKQKISLTIFLINGVKLTGIVTSFDNFCVLLRRDGHSQLVYKHAISTIMPSQPVQMFEGEEA |
| 2628 | sp|A8YZP8|HCHA\_STAAT | MSQDVNELSKQPTPDKAEDNAFFPSPYSLSQYTAPKTDFDGVEHKGAYKDGKWKVLMIAAEERYVLLENGKMFSTGNHPVEMLLPLHHLMEAGFDVDVATLSGYPVKLELWAMPTEDEAVISTYNKLKEKLKQPKKLADVIKNELGPDSDYLSVFIPGGHAAVVGISESEDVQQTLDWALDNDRFIVTLCHGPAALLSAGLNREKSPLEGYSVCVFPDSLDEGANIEIGYLPGRLKWLVADLLTKQGLKVVNDDMTGRTLKDRKLLTGDSPLASNELGKLAVNEMLNAIQNK |
| 2629 | sp|Q82V23|HFQ\_NITEU | MGVKGQLLQDPFLNILRKERIPVSIYLVNGIKLQGQIDSFDQYVVLLKNSVTQMVYKHAISTIVPAKAISIPIPADTQTEQDEP |
| 2630 | sp|Q1QM92|HFQ\_NITHX | MAIDRAQNLQDTFLNHVRKTKTPLTIFLVNGVKLQGIVTWFDNFCLLLRRDGHSQLVYKHAISTIMPGAPIQLFEGGEDAPL |
| 2631 | sp|A7HXU8|HFQ\_PARL1 | MNEKTHNLQDTFLNHVRKNKTTLTIFLVNGVKLQGVVTWFDNFCVLLRRDGHSQLVYKHAISTIMPAQPVQLFEPEANGEEG |
| 2632 | sp|Q87L07|HFQ\_VIBPA | MAKGQSLQDPFLNALRRERIPVSIYLVNGIKLQGQIESFDQFVILLKNTVNQMVYKHAISTVVPARPVSHHSGDRPQGDRPQEKSED |
| 2633 | sp|B8ECA3|HFQ\_SHEB2 | MAKGQSLQDPFLNALRRERVPVSIYLVNGIKLQGQVESFDQFVILLKNTVSQMVYKHAISTVVPARPFNVTGHQNAQGGYGAQDDAPSGE |
| 2634 | sp|B2JIU6|HFQ\_PARP8 | MSNKGQLLQDPFLNALRKEHVPVSIYLVNGIKLQGNIESFDQYVVLLRNTVTQMVYKHAISTVVPARPVNFHPDSESS |
| 2635 | sp|Q84N34|HHP2\_ARATH | MQKRRTVKESTKIRNGKGMDSGEKKRSEKRLMKFEELPRYLKDNEFIHNHYRCEWSIKETFLSAFSWHNETLNIWTHLCGFAIFTWMMVVSSMETTELGLAGFVSLLSGATIRWPWPSMAMSKDVYFSSDQTLHHDLNVTHTRSLLNSQGDVNYEAIPKWPWLVFLTGAMGCLICSSMSHLFACHSRRFNLFFWRLDYAGISLMIVCSFFAPIYYAFSCHTYWRLFYLSSISILGLLAIFTLLSPSLSAPRFRSFRAALFLTMGFSGVIPATHVLYLHKDHPNVLIALVYELAMAVLYATGAAFYVTRIPERWKPGAFDIAGHSHQIFHVFVVLGALAHSVASLLIMDFRRASPSCAF |
| 2636 | sp|A9L3V9|HFQ\_SHEB9 | MAKGQSLQDPFLNALRRERVPVSIYLVNGIKLQGQVESFDQFVILLKNTVSQMVYKHAISTVVPARPFNVTGHQNAQGGYGAQDDAPSGE |
| 2637 | sp|Q6G014|HFQ\_BARQU | MAERSQHLQDVFLNTVRKQKISLTIFLVNGVKLTGIVTSFDNFCVLLRRDGHAQLVYKHAISTIMPGQPVQMFEGESSE |
| 2638 | sp|Q5WFY7|HFQ\_BACSK | MKATVNIQDQFLNQLRKESIPVTVFLLNGFQLRGQVKGFDNFTVIVETEGRQQLVYKHAISTFAPQKNVQLKNEAEV |
| 2639 | sp|Q0AB60|HFQ\_ALKEH | MAKGQSLQEPFLNALRKEKVPVSIYLVNGIKLQGQIESFDQFVILLRNNVNQMVYKHAISTVVPARNVRTAPPVPTETHAQSSEEFGNI |
| 2640 | sp|A9BMU8|HFQ\_DELAS | MSNKGQLLQDPFLNALRREHVPVSIYLVNGIKLQGQIESFDQYVVLLRNTVTQMVYKHAISTIVPGRAVNFSTAEAAGSDASA |
| 2641 | sp|Q8C050|KS6A5\_MOUSE | MEGEGGGSGGAGTSGDSGDGGEQLLTVKHELRTANLTGHAEKVGIENFELLKVLGTGAYGKVFLVRKISGHDAGKLYAMKVLKKATIVQKAKTTEHTRTERQVLEHIRQSPFLVTLHYAFQTETKLHLILDYINGGELFTHLSQRERFTEHEVQIYVGEIVLALEHLHKLGIIYRDIKLENILLDSNGHVVLTDFGLSKEFVADETERAYSFCGTIEYMAPDIVRGGDSGHDKAVDWWSLGVLMYELLTGASPFTVDGEKNSQAEISRRILKSEPPYPQEMSTVAKDLLQRLLMKDPKKRLGCGPRDAEEIKEHLFFEKIKWDDLAAKKVPAPFKPVIRDELDVSNFAEEFTEMDPTYSPAALPQSSERLFQGYSFVAPSILFKRNAAVIDPLQFHMGVDRPGVTNVARSAMMKDSPFYQHYDLDLKDKPLGEGSFSICRKCVHKKTNQAFAVKIISKRMEANTQKEITALKLCEGHPNIVKLHEVFHDQVAASAQPPGQVVLCSLLLLALLFNRSLTRKPVTWTWLVHSTSQLPPLPPPMPEIVLFILLSDNGQLHTFLVMELLNGGELFERIKRKKHFSETEASYIMRKLVSAVSHMHDVGVVHRDLKPENLLFTDENDNLEIKVIDFGFARLKPPDNQPLKTPCFTLHYAAPELLTHNGYDESCDLWSLGVILYTMLSGQVPFQSHDRSLTCTSAVEIMKKIKKGDFSFEGEAWKNVSQEAKDLIQGLLTVDPNKRLKMSGLRYNEWLQDGSQLSSNPLMTPDILGSSGAAVHTCVKATFHAFNKYKREGFCLQNVDKAPLAKRRKMKRTSTSTETRSSSSESSRSSSSQSHGKTTPTKTLQPSNPTEGSNPDTLFQFSD |
| 2642 | sp|A7HK39|LON\_FERNB | MPNKNDNKGKYSRLEKEAKKAREEKISIPNVLPAIAMRSNMVIFPNTVVPFYVGREISLMALEEAMEKTNQIVFVVNQKDPAVETPTEKDLYKVGTIVRIIQVGKLPDETFKVLVEGIARAKWIKNVGEKFFKFEIEILRTRYGKSKRLIALMRMVKEELHKYVQYSRKIPPETLMLLEDVDNPDVFADIAASLCPGNIEEKQQLLEIVHPANRLERILDILARETELLEIEQQLDQKVKERIEKSQREYYLREKLRVIRDELGGEEDIEIKELKEKIENNNYPEFVKEKARAEINRLEKMSPYAPEATVVRTYLDWILNLPWHEKTDDTDDINFAEKVLNEDHYGLDEPKRRILEYLATRKVSQKAKAPIICFVGPPGVGKTSLAKSIARAMNRKFGRMSLGGLRDEAEIRGHRRTYVGAMPGRIMQLIRKLGVKNPVILLDEIDKMGISFQGDPASALLEVLDPEQNKEFVDHYIELPYDLSEVLFVTTANVLYTIPPALRDRMEVIEISSYTDVEKFYIAKNYIIPKIESEFVEKADEIFSFKDTAIKKIINEYTLEPGVRELEREIRSVVRKATLDAIKTGKKIVISPEKVTEYLGPSKIKDEDKLEKPMIGVTTGLAWTPNGGTTLYIESTLIPGNGGLIITGQLGDVMKESVRIALSLARKIVGDEYAEKFTKNDIHVHVPEGAVPKDGPSAGVTITTALVSVVKNIPVRNDIAMTGEITLRGRVLPVGGIKEKVMAAYRKGIYHVILPKKNEVDIEKVPEVVRTKMKFTFVETIEEVLEVALNEDNSKESRKGRTRKGNSNTK |
| 2643 | sp|A9ETZ9|LON1\_SORC5 | MRFAQRPAMPERRSLPVLSLRDTVLFPGIATPITVGRLKTLRAVEAALRVEGEDKRIFAVAQRDAAEEPTASGLFSIGVIARITQVQRFGSGLQLVLYCERRAAAPRYTEVDGVIRAPVIELADLPLRPEEDGALEALSREVRERAVEYGRHRGAPEDVLKQFVGSMYGPAELVNHIAFYLDLPTPEKQALLEILSTEERMRSLALHLYRQIGIVETQEKIRTTVEEELGERQREIYLREQLRAIQKELGEEDDENAAARLEHKLQRANLPAEILQEARRDLARLRRMGRETSPEAQVLMTWLEWVADLPWSQRTDDHVDLDRARAILDEDHYGLGDVKDRVLEFLAVRKLRLEQARSEGERSRAISRGPILLFLGPPGTGKTSIAESIARALGRKYVRVSLGGARDEADIRGHRRTYVGAMPGRILQGIKRIGSKNPVIVLDEVDKLGASYQGDPGAALLEVLDPAQNDGFVDHYLGLPFDLSEVLFICTANFRETIPPPLFDRMEPALFAGYTEQEKHEIARKYLLPRQRKECGLREEQLRVTGTAIGGIISGYTREAGVRQLERTLGALARKAARRIAAGEIERAVVGADDDVKELLGRARMRLERRLQYDQPGVATGMYYTQMGGDIMHVEASVMPGKGDFVLTGQLGDVMKESGRAALSYARAHAAELGVPSDRLQRRDVHIHVPAGAVPKDGPSAGVTMAVALVSALSGRPVRSDIAMTGEITLRGTVLPIGGIKEKVLGAHRAGIFEILLPADNEADLDDLPAEVRSSLEFYLVNTLDEALARCLRLRSIRLEAPEEMPHARAS |
| 2644 | sp|A0RJ87|LON\_BACAH | MYCNIKWLNRSLIYYGGAMSSMNTNERIVPLLPLRGVLVYPTMVLHLDVGRDKSIQALEQAAMDENIIFLAMQKEMNIDDPKEDDIYSVGTVAKVKQMLKLPNGTLRVLVEGLHRAEVVEFIEEENVVQVSIKTVTEEVEADLEEKALMRTLLEHFEQYIKVSKKVSNETFATVADVEEPGRLADLIASHLPIKTKQKQEILEIISVKERLHTLISIIQDEQELLSLEKKIGQKVKRSMERTQKEYFLREQMKAIQTELGDKEGKGGEVEELREKIEQSGMPEETMKAALKELDRYEKLPASSAESGVIRNYMDWLLALPWTDATEDMIDLAHSEEILNKDHYGLEKVKERVLEYLAVQKLTNSLKGPILCLVGPPGVGKTSLARSIATSLNRNFVRVSLGGVRDESEIRGHRRTYVGAMPGRIIQGMKKAKSVNPVFLLDEIDKMSNDFRGDPSAALLEVLDPEQNHNFSDHYIEEPYDLSKVMFVATANTLSSIPGPLLDRMEIISIAGYTELEKVHIAREHLLPKQLQEHGLRKGNLQVRDEALLEIIRYYTREAGVRTLERQIAKVCRKAAKIIVTAERKRIVVTEKNVVDLLGKHIFRYGQAEKTDQVGMATGLAYTAAGGDTLAIEVSVAPGKGKLILTGKLGDVMKESAQAAFSYIRSRAEELQIDPDFHEKNDIHIHVPEGAVPKDGPSAGITMATALISALTGIPVSKEVGMTGEITLRGRVLPIGGLKEKTLSAHRAGLTKIILPAENEKDLDDIPESVKENLTFVLASHLDEVLEHALVGVKQ |
| 2645 | sp|A1UL70|MPRA\_MYCSK | MPVRILVVDDDRAVRESLRRSLSFNGYSVELAQDGVEALDLIANNRPDAVVLDVMMPRLDGLEVCRQLRSTGDDLPILVLTARDSVSERVAGLDAGADDYLPKPFALEELLARMRALLRRTSPDEGPDSPALTFLDLTLDPVTREVTRGSRQISLTRTEFALLEMLIANPRRVLTRSRILEEVWGFDFPTSGNALEVYIGYLRRKTEASGEPRLIHTVRGVGYVLRETPP |
| 2646 | sp|Q42842|NLT43\_HORVU | MARAAATQLVLVAMVAAMLLVATDAAISCGQVSSALSPCISYARGNGAKPPVACCSGVKRLAGAAQSTADKQAACKCIKSAAGGLNAGKAAGIPSMCGVSVPYAISASVDCSKIR |
| 2647 | sp|Q0UJJ7|NST1\_PHANO | MDWTGARARTSWGKRPQTAALGLAATFRHLNTDDHRPIEQTTQTPYSLHRPLPPPSGEPATDTPTHSSCPAPPIAVPSSLLLPRTTHPSSRSSHICACHTPVTARHSPNRLCPVSLPTPTPRSMAQGTKAPAAAMPPNSSVLNMPALNAVNRKKQKRREKEAAKKAAQDPSPPATLRNGVSSGSTHLPANAAHTRQPAPHYDDPELDDPQYDDEDDADFYSDEEAEHYEHAYGTNGHYQQGYAHAPIPSSSKKPRKKKKGAAAHPPHAYTQHVAPRHSPAPNHSMVTSGSKSIWNTSTVEERERIREFWLSLGEDERKSLVKIEKEAVLRKMKEQQKHSCSCSVCGRKRTAIEEELEVLYDAYYEELEQYAHLQQDVGRFLPDANFGHVRSAPHPRPLMTTHPPPGPYDDEEEDEYSGEDDEEDIFKYLPPPDAADFLRFGSSLTVKGGILTVADDLLKNDGKKFIEMMEQLAERRMQREEEANFHAHPSMHRYNSAHNHAPQPEEEEYDDEVDEEEGFEDEDYEEDDEDEDEAMTEEQRMEEGRRMFQIFAARMFEQRVLQAYREKVAAERQKRLLEELEEENEKKDQKEAKKAKEAQKRKEKKEKQRQIKAEEKAKKDAELAAKEAELKAAEEKRLEEQRKKREEQRKKKEAERKAQEEEKQRKEAERQKRLQEERDRQQELERKAREQKALEKKVKDDAKRKERDRAGSQGEGGSGRRRPTTTASARSVKVCRSPHGILSSFVPKAPTPSRPRQTSRQGSHGSSPKTPQVAPGTSKSMSPTSQAQGNMMPKSILTKPANSQHAGHHPLGQPSSPMPPIGPPPGLSGPPGLSMGLPPGLNGFPGPGSMLPNMMSPRPGMPFFPQPPVPQAFRGFPPPGMAGPRGFPMDGPPGLGPMPGFAGPNQAPPFGMGPPTQHSRQGSGSFASMDVPISAPSVQPIHRPAPIQRPSSVKPHDSNKHGQDSDVDELADHLGSKALLDEEDVPEIPDRRSSVQQHGSMRSMPIGFGFPDAPNSHQSTAFNGFGSANTASIWGTPPSQAFSSAAGPWGNSPTSGFFTNPLTMSSPRVSDHRAPNEPRLVWLRRVICTVCKMLSSRHAGPDGFIDANEVQQQLDAFRDPREPVVTQEELKEACDIIDGTHNNGGGSLEYKNLGDGRLSHIKFVDTTGPPPALGEIGSPIPSHSLPVAGFGGRFPGLGPQGF |
| 2648 | sp|P0CP34|NST1\_CRYNJ | MSSKSQQPPTGLSKSAAKKRAKKAAKQSQNPQPQSAPQTSSQTPASVPPLPPASVPDPLDPAFFNFPGPGSYPIDVQYDDTAYYDQVDVPLNQGDFPGSYSIDYNLSLQNGSQLAGLSAPFNITHDDLISAANELYKRMADPEFGSDDAYWSSLPPHIRQFIRDAVPFTGSISQSTPGTTSSQRTMYQMAQQIVQAASQGMGLGHGMSANLMPGINANARSFPSPQQTIGEEFGFHRHPDTREEEYDDEEEIEEDQGHPAANGDAPKKKNKKKKKKGANAASLSAPVEPPAPLPPLPPPSTLSKIPRAPAPVPQPQLPTHQPQPLSQQPPSLNPLPPPAPASAPTPTPPSSRAAGKQPMGTNPPANPPARSARAAGKAPASAAPPHNAHAGHSHNHPSTAKPAPKGKSPATAPPAKIWTQSSAEDRENIRVFWLGLSEAERRDLLRIEKDAVLKKMKEQHRHSCGCAVCGRKKVNIEMELDQLYEQYYDELRSYAAEQRVAANGLRPPPSGAGPFPGSVEVDASGTVTQYDHRAPELHDHDPDDLDGEESEEYDDDDDYADDDELDDDDIGTDEADVGDEIDEPPPPPPITHRQQPRRPPVKAPPRSEGGDDFLSFGSNLATIKGGILTIADDMLKNDGTKFLEMMEQLAIRRSVREEQNLRDMQEETDEEEEEEDDDESRDEPMTEKERAEEGKRMFQIFAARMFEQRVLQAYRERVAKQREEQLLRELEEEEDSKRAKEEKKAKEAQKKKDKKKAQKQKAEEERLAREAALEEEKRQAKLRKEEAERERMRRQDEERVRREAVKRAAQEEAQRQALERKRRQQEEKEREEEAAKKKREREEKAKKEREARENELKEKERKEREIKAAKEKAEKERIAKETLEKAERDRLAKEAKEKAEKIRQERLEASRMEKVRKEEAARKEREAVEQAKIIAAQQAQRERAAKAEKNTADKAAAERISAARVIPVAATAPVLATLGLKSPSKGSTPQSAPPVPQLSPVKGAARPITNATPGRSMQKTPTAYYPQPVPPVGVASFSRMPLAQSFGPPGLRPAYPTGSPAYSPPRANGSSISPNPPSRGFTDPSPPGFDHNLRTAPIGVGFPPVKPSGRIPSMADDAFSPTAPIGVPVTRSVSSAGEMGSLISGSVTPDDYRPTPPAPIAPPNLGPIGRPSFSDGQTSGPNVLRSTSPPPPDRVLGSAALGADDEIVQPQQRRPTTSWDMPTAAPGSGRWSASPSIWGSGDPTPAPSWGAPGSMPTVAERPGPPPGLSLSPGAGVNVLGQRQPSFGGIGSSFGGVGAVGSVIGGGMGGTAGSGLVQGHVGGGGYSQGLFSPQHQQQQQLQLQLQLQQQQQQQ |
| 2649 | sp|Q9KHT9|OPUCA\_LISMN | MLKFEHVTKTYKGGKKAVNDLTLNIDKGEFVCFIGPSGCGKTTTMKMINRLIEPTEGKIFINDKDIMAEDPVKLRRSIGYVIQQIGLMPHMTIRENIVLVPKLLKWSEEKKQERAKELIKLVDLPEEFLDRYPYELSGGQQQRIGVLRALAAEQNLILMDEPFGALDPITRDSLQEEFKNLQKELGKTIIFVTHDMDEAIKLADRIVIMKDGEIVQFDTPDEILRNPANSFVEDFIGKDRLIEAKPDVTQVAQIMNTNPVSITADKSLQAAITVMKEKRVDTLLVVDEGNVLKGFIDVEQIDLNRRTATSVMDIIEKNVFYVYEDTLLRDTVQRILKRGYKYIPVVDKDKRLVGIVTRASLVDIVYDSIWGTLEDATENQEEQADSKTTEPEMKQEG |
| 2650 | sp|P0AA21|OMPR\_SHIFL | MQENYKILVVDDDMRLRALLERYLTEQGFQVRSVANAEQMDRLLTRESFHLMVLDLMLPGEDGLSICRRLRSQSNPMPIIMVTAKGEEVDRIVGLEIGADDYIPKPFNPRELLARIRAVLRRQANELPGAPSQEEAVIAFGKFKLNLGTREMFREDEPMPLTSGEFAVLKALVSHPREPLSRDKLMNLARGREYSAMERSIDVQISRLRRMVEEDPAHPRYIQTVWGLGYVFVPDGSKA |
| 2651 | sp|Q9SU79|PAO5\_ARATH | MAKKARIVIIGAGMAGLTAANKLYTSSNNTFELSVVEGGSRIGGRINTSEFSSEKIEMGATWIHGIGGSPVYRIAKETGSLVSDEPWECMDSTIDKAKTFAEGGFEIEPSIVESISGLFTALMELAQGKEISQSDADLSRLAHIYETATRVCSKGSSTSVGSFLKSGFDAYWDSISNGGEEGVKGYGKWSRKSLEEAIFTMFSNTQRTYTSADELSTLDFAAESEYQMFPGEEITIAKGYLSVIHHLASVLPQGVIQLNRKVTKIEWQSNEVKLHFSDGSVVFADHVIVTVSLGVLKAGIETDAELFSPPLPDFKSDAIRRLGYGVVNKLFVEMSQRKFPSLQLVFDREDSEFRFVKIPWWMRRTATITPIHSNSKVLLSWFAGKEALELEKLTDEEIKDAVMTTISCLTGKEVKNDTAKPLTNGSLNDDDEAMKITKVLKSKWGSDPLFRGSYSYVAVGSSGDDLDAMAEPLPKINKKVGQVNGHDQAKVHELQVMFAGEATHRTHYSTTHGAYYSGLREANRLLKHYKCNF |
| 2652 | sp|Q0PGJ6|AKRC9\_ARATH | MANAITFFKLNTGAKFPSVGLGTWQASPGLVGDAVAAAVKIGYRHIDCAQIYGNEKEIGAVLKKLFEDRVVKREDLFITSKLWCTDHDPQDVPEALNRTLKDLQLEYVDLYLIHWPARIKKGSVGIKPENLLPVDIPSTWKAMEALYDSGKARAIGVSNFSTKKLADLLELARVPPAVNQVECHPSWRQTKLQEFCKSKGVHLSAYSPLGSPGTTWLKSDVLKNPILNMVAEKLGKSPAQVALRWGLQMGHSVLPKSTNEGRIKENFNVFDWSIPDYMFAKFAEIEQARLVTGSFLVHETLSPYKSIEELWDGEI |
| 2653 | sp|P17445|BETB\_ECOLI | MSRMAEQQLYIHGGYTSATSGRTFETINPANGNVLATVQAAGREDVDRAVKSAQQGQKIWASMTAMERSRILRRAVDILRERNDELAKLETLDTGKAYSETSTVDIVTGADVLEYYAGLIPALEGSQIPLRETSFVYTRREPLGVVAGIGAWNYPIQIALWKSAPALAAGNAMIFKPSEVTPLTALKLAEIYSEAGLPDGVFNVLPGVGAETGQYLTEHPGIAKVSFTGGVASGKKVMANSAASSLKEVTMELGGKSPLIVFDDADLDLAADIAMMANFFSSGQVCTNGTRVFVPAKCKAAFEQKILARVERIRAGDVFDPQTNFGPLVSFPHRDNVLRYIAKGKEEGARVLCGGDVLKGDGFDNGAWVAPTVFTDCSDDMTIVREEIFGPVMSILTYESEDEVIRRANDTDYGLAAGIVTADLNRAHRVIHQLEAGICWINTWGESPAEMPVGGYKHSGIGRENGVMTLQSYTQVKSIQVEMAKFQSIF |
| 2654 | sp|G3XCN6|BETS\_RHIML | MQNRVVSCRFTGSTARRATMPEGIRGRSHILFLVPLSRAESVGRLHQVQRFKVNLPVFVGSVAVIALFVGIGVIAPKRAESIFSGMQTAILSGFGWLYLLSVAVFLFSMLFLAFSRYGELKLGPDDSEPEFRYLSWIAMLFAAGMGIGLMYFAVGEPMTHFASPPEAEPLTIAAQREAMSVTFFHWGVHAWAIYSVVGLSLAYFGYRYNLPLTVRSGLYPLLKEGIHGPIGHVVDIFAICGTMFGLATSLGFGILQINSGLNYLLGIPQSIYVQLLLVTVVTAIATISVVTGVEKGVRILSETNLFLAVLLMLFVLVVGPTGTLMRDFVQNIGLYLDSLVLRTFNIYAYEPRPWIDSWTLFYWAWWISWSPFVGMFIARISRGRTVREFVTAVLFVPAMFTFLWMTVFGNTAIYVDTTIANGELARDVKADLSVALFQFFEYLPWPAVTSTLAVLLVSIFFVTSSDSGSLVIDTIASGGETATPALQRIFWCSLSGIVAAVLLSTGGLTALQSATISTALPFSLVMLILVWSLFVGMRADLARTQSPGSLGPRAYPASGVPWQRRLAMTLSTPDRRAVEKFLQASVLPALEAVARELTRRSRPASVGRDAETGALTLTVPAEGHRDFVYGVQMSEHKLPAFTAYDATVADVRYEARTFFSDGSRGYDIMGMADNQIINDVLFQFERYTGFVRSPESSLLATSPEER |
| 2655 | sp|Q4ZUW2|HTPG\_PSEU2 | MSVETQKETLGFQTEVKQLLHLMIHSLYSNKEIFLRELISNASDAVDKLRFEALSKPELLEGGAELKIRVSFDKDAKTVTLEDNGIGMSREDVITHLGTIAKSGTADFMKNLSGDQKKDSHLIGQFGVGFYSAFIVADQVEVFSRRAGTPASEGVHWSSKGEGEFEVATVDKADRGTRIVLHLKNGEEEFADGYRLRNIIKKYSDHIALPIELPKEQAPAAEGEEPAALEWETVNRASALWTRPRTEVKDEEYQEFYKHVAHDYENPLSWSHNKVEGKLEYTSLLYVPARAPFDLYQREAPRGLKLYVQRVFVMDQAESFLPLYMRFVKGVVDSNDLSLNVSREILQKDPIIDSMKSALTKRVLDMLEKLAKNEPEKYKGFWKNFGQVLKEGPAEDFANKEKIAGLLRFASTSDDSGEQSVSLAEYLARAKEGQDKIYYLTGESYAQVKNSPHLEVFRKKGIEVLLLTDRIDEWLMSYLSDFDGKGFVDVARGDLDLGNLDSEEDKKAQEEIAKDKEGLIERLKAALGESVSEVRVSHRLTDSPAILAIGEQDMGLQMRQILEASGQKVPDSKPIFEFNPAHPLIGKLDAEQSEDRFGDLSHILFDQAALAAGDSLKDPAAYVRRLNKLLVELSV |
| 2656 | sp|A1T639|HTPG\_MYCVP | MAAHVEQLEFQAEARQLLDLMIHSVYSNKDSFLRELVSNASDALDKLRLESFRNKDLDVDTSDLHIEIDVDKEARTLTVRDNGIGMTRDEVVSLIGTLAKSGTGELRQQLREAKDKDTSEELIGQFGIGFYASFMVADRVELLTRKAGESEATRWESSGEGTYTIETVDQAGGEVPQGTSVTLHLKPEDREDELHDYTSEWKIRELVKQYSDFIAWPIRMEVERRTPAPEDGGEESVTVETETLNSMKALWARPRDEVSDEEYTEFYKHVAHAWDEPLEVIAMKAEGTFEYQALLFIPSHAPFDLFNQNAAVGVQLYVKRVFIMGDCDQLMPPYLRFVKGVVDAQDMSLNVSREILQQDRQIRAIRRRLTKKVLSTITEMQTERPEKYRTFWTQFGRVLKEGLLTDIENQETLLRVCSFASTHSEDEPTTLAEYVERMPDGQSQIFYAAGESRQQLLHSPHLEAFKAKGYEVLLLTDPVDEVWVESVHEFDGKPLQSVAKGEVDLDSDADNDGQDAERQEREQGFADLIAWLKEALSDHVKEVRLSTRLTDSPACLITDTFGITPALARMYRASGQPVPVEKRILELNPNHPLITGLREAHKSRGADAELVGTAELLYGTALLAEGGVLEDPARFAGLLADRLTRTVGDQT |
| 2657 | sp|Q39BY0|HSLU\_BURL3 | MSTMTPAEIVSELDKHIIGQAKAKKAVAVALRNRWRRQQVADPLRQEITPKNILMIGPTGVGKTEIARRLAKLADAPFIKIEATKFTEVGYVGRDVDSIVRDLIEISVKQTRETEMRKVRSKATDQAEDRILDILLPQPRAVGFGGNAEHANDDNNATRQTFRKRLREGQLDDKEVELDIEQPSAGMDIMAPPGMEEMTEQIRSMFSNLGSGKKQRRKVKIKEALKLLTDEEAAKMLNDEEVKTKAVQNVEQNGIVFLDEIDKITSRNNEGSGGEVSRQGVQRDLLPLVEGTTVNTKYGMVKTDHILFIASGAFHLAKPSDLIPELQGRFPIRVELDSLSVNDFEAILVATDASLVKQYQALLATEDVQLEFADDGIRRLAEIAYSVNEKTENIGARRLYTVIEKLLEEVSFSAGNHAGERVTIDAKYVDRALGEVSQDEDLSRYVL |
| 2658 | sp|Q4FQZ1|HTPG\_PSYA2 | MSEQNPTDSKNPELKKHTFEAEVAQLLHLVTHSLYSNSDIFVRELVSNASDACDKLRFEATNDDSLYEDDGELRIRIAVDEDAKTITFTDNGIGMNEADAIENLGTIAKSGTKAFLDKLSDSQKQDGQLIGQFGVGFYSGFIVADTISVETRKAGDAAENGVRWVSDGTGSFTVENISKTERGSSITLHLKEQYSEGEDGYLDRSKIKRLVNKYSDHISLPIQMRKEIWQEDEVEEGDDTPANGQMVLTDEWETINKASALWTRTASDVEDDEYVDFYKNITYDMDAPLTWTHNRVEGRVQYTQLLYIPKKAPVDLYTREQQHGLKLYVKRVFIMDDAEQLLPMYLRFVKGVIDSADLPLNVSREILQESRDVKSIRDGNARRILTLLASLANSEDADKQEKFAQFYAEFGDVIKEGVGEDMGNQERIAKLLRYATSTQDGEMTSFEDYKARMKDGQKAIYYLTADNLAAAKNSPQLELFKKKGIEVILMTSRVDEWAMNFLTSFDETPLQNIAKGAVDLGDLQDEAEKAEAEKAQETMKPVVDKLKAALGDRAKDVKVSTRLVDSPACLVVGEGELSPQMIQMLKQMGQDVPESKPTLEVNPDHPLIKKLESSEQSAEDFDKLAQVIFDQALLADGGQLEDPAAYLRRVNELLMK |
| 2659 | sp|Q2GFY5|HTPG\_EHRCR | MQDVINSEKLKFDAEVGKVLKLVIHSLYTNKDIFLRELVSNASDACDKLRYESLSNQDLIDQDSDFKIVISVDQDKNRLYISDNGIGMNRQDLIDNLGTIAHSGTQRFLDEINNGTSSQGVVELIGKFGVGFYSAFMVASEVIVESRKAGESIGYQWKSHGDGEFTISQLEDNQISRGTKITLILKPEESEFTDRFRIEHIITTYSYHINYPVYFLNDKGEEEKLNSDAAIWTKSKGEISAEEHQNFFRTVAHVGGEPWMILHNKNEGVVEYTNLLYIPSIKPFDLFHPDRKCSVKLYVNKVFITEDNVQIIPQYLRFLKGIIDSSDLPLNISRETLQNNKIIEKIKQSIVNRVLSELKKKAESDIKDYKKFWENFGSVLKEGLCESMNTEFREELMSACRFYSTYSDDSLISLEDYIERMKAGQDNIYYLTGNDLDSVKKSPQLEGFISRGIEVILLVDPVDDFWTNVVTDYQKVPLKSVIRADEDLEKLAHLDKSEEIKENEDESVDSKEKVDTFVKYAAQVLDKLVSSVRVSKKLTNSPVCLAVADGSMDIRMERFLREQKQLNYKSTKILEINPKHPIVTKMIDEHANAGESVTLENMLHLLLNQACILEGEELQDVSDFAERMNNILAKVYQ |
| 2660 | sp|Q0TAD3|HSLU\_ECOL5 | MSEMTPREIVSELDKHIIGQDNAKRSVAIALRNRWRRMQLNEELRHEVTPKNILMIGPTGVGKTEIARRLAKLANAPFIKVEATKFTEVGYVGKEVDSIIRDLTDAAVKMVRVQAIEKNRYRAEELAEERILDVLIPPAKNNWGQTEQQQEPSAARQAFRKKLREGQLDDKEIEIDLAAAPMGVEIMAPPGMEEMTSQLQSMFQNLGGQKQKARKLKIKDAMKLLIEEEAAKLVNPEELKQDAIDAVEQHGIVFIDEIDKICKRGESSGPDVSREGVQRDLLPLVEGCTVSTKHGMVKTDHILFIASGAFQIAKPSDLIPELQGRLPIRVELQALTTSDFERILTEPNASITVQYKALMATEGVNIEFTDSGIKRIAEAAWQVNESTENIGARRLHTVLERLMEEISYDASDLSGQTITIDADYVSKHLDALVADEDLSRFIL |
| 2661 | sp|A5IBL1|HTPG\_LEGPC | MVSKQQTMGFQTEVKQMLHLVVHSLYSNKEIFLRELISNASDALDKLRFLALSNGSLFENDSDLKISIQINEKLQTITISDNGIGLSWEEAVENLGTIAKSGTKEFISQLTGEQAKDSQLIGQFGVGFYSAFIVADKVTVKSRRAGLQPEDGIVWESKGDGEFTIGYEKKSTRGTEITLHLKPENDEFLSDWRIRGIISKYSDHICWPIVMKKLSEEGKESKEFETVNKATALWTLQKSEISEEDYKQLYKHISHDYMDPLTWSHNHVEGKHEYITLLYIPAHAPFDLWQHEAKHGLKLYVKRVFIMDEATQFLPRYLRFVKGIVDASDLPLNISREILQDNKQVESIRAACTKRVLSMLEKMATNDKETYQKFWNEFGLVLKEGPIEDFANKEAIAKLLRFSTTASGSEKQEVSLEEYISRMKEGQDKIYYITASSYNAAKNSPHLEIFRKKGIEVLLLSDKVDEWLVGYMNEFAGKKLQSISKGKIELGDDETSEQIKEQEKTLEPLIKHIKSVLNERVKDVLLTNRLTDSPACVVADEQDMGLEMQRILQAAGQQVPVSKPIFEINPDHALIKRLHDIQDDNQFELWVTMLFEQAVLAEGGQLDNPADFVNRVNRLLVSS |
| 2662 | sp|Q943E6|HS16B\_ORYSJ | MSLVRRSNVFDPFSLDLWDPFDSVFRSVVPATSDNDTAAFANARIDWKETPESHVFKADLPGVKKEEVKVEVEEGNVLVISGQRSKEKEDKNDKWHRVERSSGQFMRRFRLPENAKVDQVKAGMENGVLTVTVPKAEVKKPEVKAIEISG |
| 2663 | sp|Q91291|HSP70\_PLEWA | MSAPKGVAFGIDLGTTYSCVGVFQHGKVEIIANNQGNRTTPSYVAFTDTERLIGAPAKNQVSLNPQNTVFDAKRLIGRKFNDTVVQADMKHWPFKVVSDEWKPKVQVEYKGDNKTFFPDEVSSMVLIKMKEIAEAYLGHLVSNAVITVPSYLTASQRQATKDAGVLAGLNVLSIVNEPTAAAIAYDLDKAGRGELNVLIFDLGGGTFDVSILTIDDGIFEVKATAGDTHLGGEDFDNRMVNHFHEPFKRKHKKDITKNKRAVRRLRTACERAKRTLSSSTQASIEIDSLFEGIDFYTSITRARFEELCADLFRGPLEPVEKALRDAKLDKAQIHEIVLVGGSTRIPKIQKLLQDFFNGRELNKSINPDEAVAYGAAVQAAILMGDKSENLQDLLLLDVAPLSLGLETAGGVMTVLIKRNSTIPTKQTQIFTTYSDNQPGVLIQVYEGERAMTKDNSLLGKFELSGIPPAPRGVPQIEVTFDIDANGILNVSAVDKSSGKQNKITITNDKGRLSKEEIERMVQEAERYKADDEAQREKVSAKNTLESIAFNMKSTVEGDNLKDKISEDDRKKIVDKCNQTISWMENNQMAEKEEYEHQQKELEKVCNSIITKLYQGGMPGGMPSGSSGAQARQGSSSTGPTIEEVD |
| 2664 | sp|B5ZV99|HSLU\_RHILW | MTTFSPREIVSELDRYIIGQHDAKRAVAIALRNRWRRQQLDPSLRDEVMPKNILMIGPTGVGKTEISRRLAKLAGAPFIKVEATKFTEVGYVGRDVEQIIRDLVEVGIGLVREKKRTEVQAKAHVSAEERVLDALVGTTASPATRESFRKKLRDGELDDKEIDIEVADAGSGMGGFEIPGMPGANIGVLNLSEMFGKAMGGRTKKVRTTVKASYTDLIRDESDKLIDNEVIQREAVRSTENDGIVFLDEIDKIAARDGGMGAGVSREGVQRDLLPLVEGTTVSTKYGPVKTDHILFIASGAFHVSKPSDLLPELQGRLPIRVELRPLNKEDFRRILTETEASLIRQYRALMETESLNLEFTDDAIDALADVAVHLNSSVENIGARRLQTVMERVLDDISYNAPDRGGTAVTIDAAYVREHVGDLAQNTDLSRFIL |
| 2665 | sp|Q8Y0Q3|HTPG\_RALSO | MGAPHEKMAFQAEVKQLLHLMIHSLYSNKEIFLRELVSNASDAVDKLRFEGIADPSLLEGGGELGIRIGFDAQARTVTIADNGIGMSRDEAIRNLGTIARSGTREFFSQLSGDQQKDAALIGQFGVGFYSAFIVADRVTVESRRAGVPAAEGVRWESAGDGEFTVDAIERAERGTTITLHLREGEDDFLSAWRLKSIVQKYSDHISLPIAMRKESWDEEKKEMVAQDEWETINQASALWARPRADVTDEQYIAFYQHIAHEQGQPLAWTHNRVEGRSEYTQLLYLPTNAPFDLWDRERRSGLKLYVKRVFIMDDAEQLLPAYLRFVKGVIDSADLPLNVSREILQESRDVKAIREGSTKRVLGMLESMADSDDAAEKDKYATFWQHFGQVLKEGLGEDFANKDRIAKLLRFASTHNAGDEQTVSLADYIGRMKDGQDKIYYVSAENWTAAKSGPHLEVFRKKGVEVLLLTDRVDEWMLSFLHDFEEKALVSVARGGLDLGALEDEAERAEHAKVEGEFKPLVDRAKAVLADKAKDVRITHRLTDSPSCLVADEGDISGTLARLLKQAGQKAPDTKPVLELNPAHPLVRKLALLESVTGGEADRAAFEDRLHVLFDQALLAEGGSLADPADYVQRVNRLLA |
| 2666 | sp|B8IMW6|HSLU\_METNO | MTTFSPREIVSELDRYIVGQADAKRAVAIALRNRWRRQQLQGPLREEVAPKNILMIGPTGCGKTEISRRLARLANAPFLKVEATKFTEVGYVGRDVEQIVRDLVEVGIGLKRDEKRRSVQAKAEAAAEARILDALVGPTASQATRDSFRRRLRAGELDDKEVELELAGSATAGLPMFEIPGMPGAAMGAINLGDMLGKALGGQRGRPRRITVRDAHAPLMTEESDKLLDQDTIIQEAIREVEDNGIVFLDEVDKICAREGRGGADVSREGVQRDLLPLIEGTTVATKYGPVKTDHILFIASGAFHVSKPSDLLPELQGRLPIRVELAPLTVDDFRRILTETEASLLKQAVALMATEGVTVTFTDDAVDALARVAVDVNSSVENIGARRLQTVLERVLDEISFAAPDRSGEIVTIDAAYVRERVESLAQNADLSRFIL |
| 2667 | sp|P9WMJ6|HTPG\_MYCTO | MNAHVEQLEFQAEARQLLDLMVHSVYSNKDAFLRELISNASDALDKLRIEALRNKDLEVDTSDLHIEIDADKAARTLTVRDNGIGMAREEVVDLIGTLAKSGTAELRAQLREAKNAAASEELIGQFGIGFYSSFMVADKVQLLTRKAGESAATRWESSGEGTYTIESVEDAPQGTSVTLHLKPEDAEDDLHDYTSEWKIRNLVKKYSDFIAWPIRMDVERRTPASQEEGGEGGEETVTIETETLNSMKALWARPKEEVSEQEYKEFYKHVAHAWDDPLEIIAMKAEGTFEYQALLFIPSHAPFDLFDRDAHVGIQLYVKRVFIMGDCDQLMPEYLRFVKGVVDAQDMSLNVSREILQQDRQIKAIRRRLTKKVLSTIKDVQSSRPEDYRTFWTQFGRVLKEGLLSDIDNRETLLGISSFVSTYSEEEPTTLAEYVERMKDGQQQIFYATGETRQQLLKSPHLEAFKAKGYEVLLLTDPVDEVWVGMVPEFDGKPLQSVAKGEVDLSSEEDTSEAEREERQKEFADLLTWLQETLSDHVKEVRLSTRLTESPACLITDAFGMTPALARIYRASGQEVPVGKRILELNPSHPLVTGLRQAHQDRADDAEKSLAETAELLYGTALLAEGGALEDPARFAELLAERLARTL |
| 2668 | sp|Q2JZH2|HTPG\_RHIEC | MTTTVEQTAESHVFEADVARLLHMMVHSVYSDKGVFLRELISNGADACEKLRYEAIETPSLLAADAESRIMLRLDEESRQLVVEDNGIGMRRDEMIEALGTIARSGTRAFMERIAENKAAEGAQFIGQFGVGFYSCFMVAEHVDVISRRAGSEEAWKWSSDGKGSYSVEAANLVEAPARGTRIVLHLMEDAKTYTSRWTVERIVKEQSGHVPVAIRIVDKPGGEPVQITDGTALWTKSKSEVSKEDYTDFYRGLSGQYDEPALTVHFRAEGRHEYTALAFVPGTQPFDMFDPERKGRMKLYVKRVFITDDAELMPRYLRFVRGLIDTADLPLNVSREMIQESPILAAIRKGVTNRVITAIEKLADGESETYLTFWKNFGPVLKEGIYEDYERRAQLMALARFHTSASPEGHRSLAEYVKDAKEGQDAIYYLAGGSLDQLKASPQLEGFRARGIEVLLLTDSVDSFWVVNAPEFEGKAFKSITQGTADLAQFPRLDNQTPPEQDSAGLATFIGFAREKLAGQVADVRASDRLTESAVCLVAPEDGYDRQMEKILQNAGRLQGATKPILEINLAHPVIKAIAAVEDDASYQEDATFLLLDQARILDGERPQDPRKFAQRLARVFERSVRSEG |
| 2669 | sp|Q53M11|HS219\_ORYSJ | MAAVAEREVLGMVAAVAAMVVMMAPPAAALVPYGYGYMLDDPFRVLEQSPLRPAGGVAAAAAAGEPAAVALARCDWKETPEAHVVTVDVPGVRRGDVRVEVDEASRVLRVSGERRRAGAAEEEEGERDGVRWHRAERAAGRFWRRFRMPPGADVGRVAARLDDGVLTVTVPKVPGHRGREPRVVAIDGAGAGDMEAEVVKASKAEM |
| 2670 | sp|P34934|HSP7X\_PIG | RRLRTACERAKRTLSSSTQATLEIDSLFEGVDFYTSITRARFEELCSDLFRSTLEPVEKALRDAKLDKAQIHDIVLVGGSTRIPKIQKLLQDFFNGRELNKSINPDEAVAYGAAVQAAVLMGDKCEKVQDLLLLDVAPLSLGLETAGGVMTTLIQRNATIPTKQTQNFHYLLQNNQPGVLIQVYEGERAMTRDNNLLGRFELSRIPPTPRGVPQIEVTFDIDANGILSVTATDRSTGRANKMTLTSDKGRLSKEEVERMVREAASHKVEDEAQRDRVAAKNSLEAYVFHVKGSLHEESLRDKIPEEDRCKVQDKCQEVPYLWLEHNQLAEKEEYEHQKRELEQIASISQLLGPCTWGSSCGAQAPKGGPSTGPVIEEVD |
| 2671 | sp|B1IVW6|HSPQ\_ECOLC | MIASKFGIGQQVRHSLLGYLGVVVDIDPVYSLSEPSPDELAVNDELRAAPWYHVVMEDDNGLPVHTYLAEAQLSSELQDEHPEQPSMDELAQTIRKQLQAPRLRN |
| 2672 | sp|O16076|HSP83\_DROPE | MPEEAETFAFQAEIAQLMSLIINTFYSNKEIFLRELISNASDALDKIRYESLTDPSKLDSGKELYIKLIPNKTAGTLTIIDTGIGMTKSDLVNNLGTIAKSGTKAFMEALQAGADISMIGQFGVGFYSAYLIADRVTVTSKNNDDEQYVWESXXXGSFTXKADNXEPLXRGTKIXLYIKEDQTDYLEESKIKEIVNKHSQFIGYPIKLLVEKEREKEVSDDEADDEKKDDEAKKDMDTDEPKIEDVGEDEDADKKDKDGKKKKTIKEKY |
| 2673 | sp|Q87RH5|HTPG\_VIBPA | MSETVSQNKETRGFQSEVKQLLHLMIHSLYSNKEIFLRELISNASDASDKLRFQALSNPDLYEGNADLGVKLSFDESANTLTISDNGIGMSRNDVIEHLGTIAKSGTAEFFSKLSEEQSKDSQLIGQFGVGFYSAFIVADAVTVRTRAAGLPADEAVQWHSAGEGEYTIENITKESRGTDIILHMRDEGKEFLNEWRLRDVISKYSDHIGIPVSIQTVVRDEDGKETDEKKWEQINKAQALWTRNKADISDEEYQEFYKHVSHDFADPLVWSHNRVEGKNDYTSLLYIPSKAPWDMMNRDHKSGLKLYVQRVFIMDDAEQFMPSYLRFVRGLIDSNDLPLNVSREILQDNKVTQSLRNACTKRVLTMLERMAKNDEEKYQSFWKEFGLVLKEGPAEDFANKEKIAGLLRFASTEVDSAEQTVGLASYVERMKEGQDKIYYLTADSYAAAKNSPHLEQFKAKGIEVILMFDRIDEWLMNYLTEFDGKQFQSITKAGLDLSKFEDEADKEKQKETEEEFKSVVERTKSYLGDRVKDVRTTFKLASTPAVVVTDDYEMGTQMAKLLAAAGQAVPEVKYIFEINPEHELVKRMADEADEEAFGRWVEVLLGQAMLAERGSMEDPTQFLGAINKLLTKV |
| 2674 | sp|C5BRL0|HSLU\_TERTT | MSQMTPREIVSELDKFIVGQQAAKKAVAIALRNRWRRMQVDKSLRNEITPKNILMIGPTGVGKTEIARRLAKLANAPFIKVEATKFTEVGYVGRDVESIVRDLVDGSIKLFREQEMAKCRYRAMEAAEERILDALLPPARSSGEEQHESSTRQIFRKKLREGDLDDKEIEIEMAATPVGVEIMAPPGMEDMTSQLQNMFSSMSSGKTRKAKLTVKKAFKKLTDEEAAKLINEEELKAQAIEAAEQNGIVFIDEIDKVTKRDNASGADVSREGVQRDLLPLIEGCTVSTKHGMIKTDHILFIASGAFHLSKPSDLIPELQGRLPIRVELEALSPEDFERILTEPDASLTEQHQALLATEGVSLAFSKDGIRRIAETAFDVNERTENIGARRLHTVLEKLLEEASFNTDGESVEIVVDAAFVDKQLGELATNEDLSRYIL |
| 2675 | sp|P40183|HSPR\_STRCO | MDGRRRNPYELTEDTPVYVISVAAQLSGLHPQTLRQYDRLGLVSPDRTAGRGRRYSARDIELLRQVQQLSQDEGINLAGIKRIIELENQVAELQARAAELAAALDGAATAMRQREAAVHASYRRDLVPYQEVQQTSALVVWRPSRRGQSSD |
| 2676 | sp|A3D9C6|HSLU\_SHEB5 | MSEMTPREIVHELDAHIIGQQKAKRSVAVALRNRWRRMQLDVDFRQEVTPKNILMIGPTGVGKTEIARRLAKLANAPFIKVEATKYTEVGYVGKEVEQIIRDLTDIAIKLTREQQMGKCRQRAEENAEERILDALLPKPKNDWESTETDSSSNTRQVFRKKLREGQLDDKEIDIDVAQPQVGVEIMSPPGMEEMTNQLQSLFKNMGQAPAKRRKMKIKEAFKLLIEEEAAKLVNQEDLKEQAIEMVEQHGIVFLDEIDKICKRGETSGPDVSREGVQRDLLPLIEGCTVTTKHGMVKTDHILFIASGAFQMSKPSDLIPELQGRLPIRVELDALSANDFKRILTEPHASLTEQYIALMNTEGVKVEFSESGIDSIAKAAWQVNERTENIGARRLHTVMEKLMEDISYEASEKSGSAFVIDADYVSAHLDNLVQDEDLSRFIL |
| 2677 | sp|B8D7L3|HTPX\_BUCAT | MTRIVLFLLTNLAVMLIFSLILFLTGIQSNTIYGLLIMSGLFGFSGSILSLILSKWIALRSVNGEIITHPRNEVESWLINTVRQQSIQKGIIMPQIAVYHATDINAFATGARRNSALIAVSTGLLENMTHHEAEAVIAHEISHIANGDMITMTLVQGVVNTFVIFISRFLSQIISNVMSSNRNENNTEEKNSFVYFLVSTFLELIFGILASIITMWFSRHREFYADASSAKMVGREKMIAALNRLKTSHEPQESDSMIAFCINGKSKSFLKLFASHPSLENRIEALYNQEYM |
| 2678 | sp|B7XIV9|HSF\_ENTBH | MAKRKEVTEISEMDIKKSGFVNRLYRETCDISNKYIKFDDDGDKLIIPNKIDFIKKALNKISSTKDYSSFVRQLNNYGFTKIKLDNGDSNCDIYYHQNFHRDHPDLISLITRDKSKNGDYKDNMTTFINSLQYLASCNYKQQKEINDLKDRIKTLETKYATLYEIISNAFRQGIEQYQKHNTMYFNNNSLLKNMFTYNQELDDLKDNTNVYNNAKLINQLKLDAKNSNQDDNIKKTKNAFDEFYF |
| 2679 | sp|Q9R0L1|HSF4\_MOUSE | MQEAPAALPTEPGPSPVPAFLGKLWALVGDPGTDHLIRWSPSGTSFLVSDQSRFAKEVLPQYFKHSNMASFVRQLNMYGFRKVVSIEQGGLLRPERDHVEFQHPSFVRGREQLLERVRRKVPALRGDDSRWRPEDLSRLLGEVQALRGVQESTEARLQELRQQNEILWREVVTLRQSHSQQHRVIGKLIQCLFGPLQTGPSSTGAKRKLSLMLDEGSACSASAKFNACPVSGALLQDPYFIQSPLPETTLGLSPHRARGPIISDIPEDSPSPEGHRLSPSGGCRRVKGLALLKEEPASPGGDGEAGLALAPNECDFCVTAPPPLPVAVVQAILEGKGSYSPEGPRSVQQPEPRGPREVPDRGTLGLDRGNRSPESLLPPMLLRPAPETLEPVAPVDVLGPSLHGREWTLMDLDMELSLMQPLAPETDEAELTVKELNSSGVGKDHTLGTPLMLDVQADLEGAALSVPGALTLYNVTESNASYLDPGASPSSP |
| 2680 | sp|A1B5T0|HSLU\_PARDP | MSDLTPREIVSELDRFIIGQRDAKRAVAVALRNRWRRRQLGDDLRDEVYPKNILMIGPTGVGKTEISRRLARLARAPFLKVEATKFTEVGYVGRDVEQIIRDLADAAVIETRERMRDEVKARAHKSAEDRVVAALAGEGAREQTREMFRDKLKRGELDDKVIELELQDNSSPFGMMEIPGQPGQPMGGMMDLSGLMKAFGGRRVRRKLSVAESYDLLIAEEADKLLDDEAVKAAALEAVQENGIVFIDEIDKVAARTDARGGDVSREGVQRDLLPLIEGTTVSTKYGPVRTDHILFIASGAFHIAKPSDLLPELQGRLPIRVELRALTEEDFIRILTETDNALTRQYTALMATEGVTVQFIQDGIRALARIAAEVNGSVENIGARRLYTVIERVFEELSFSAPDRSGETVVVDAAFVEKHLGDLSRSTDLSRYVL |
| 2681 | sp|P30946|HS90A\_RABIT | MPEETQTQDQPMEEEEVETFAFQAEIAQLMSLIINTFYSNKEIFLRELISNSSDALDKIRYESLTDPSKLDSGKELHINLIPNKQDRTLTIVDTGIGMTKADLINNLGTIAKSGTKAFMEALQAGADISMIGQFGVGFYSAYLVAEKVTVITKHNDDEQYAWESSAGGSFTVRTDAGEPMGRGTKVVLHLKEDQTEYLEERRIKEIVKKHSQFIGYPITLFVEKERDKEVSDDEAKQPDDKPEIEDVGSDEEEEEKKDGDIDQEELNKTKPIWTRNPDDITNEEYGEFYKSLTNDWEDHLAVKHFSVEGQLEFRALLFVPRRAPFDLFENRKKKNNIKLYVRRVFIMDNCEELIPEYLNFIRGVVDSEDLPLNISREMLQQSKILKVIRKNLVKKCLELFTELAEDKENYKKFYEQFSKNIKLGIHEDSQNRKKLSELLRYYTSASGDEMVSLKDYCTRMKENQKHIYYITGETKDQVANSAFVERLRKHGLEVIYMIEPIDEYCVQQLKEFEGKTLVSVTKEGLELTKFENLCKIMKDILEKKVEKVVVSNRLVTSPCCIVTSTYGWTANMERIMKAQALRDNSTMGYMAAKKHLEVNPDHSIIETLRQKAEADKNDKSVKDLVILLYETALLSSGFSLEDPQTHANRIYRMIKLGLGIDEDDPTADDTAAAVTEEMPPLEGDDDTSRMEEVD |
| 2682 | sp|P0A6Y5|HSLO\_ECOLI | MPQHDQLHRYLFENFAVRGELVTVSETLQQILENHDYPQPVKNVLAELLVATSLLTATLKFDGDITVQLQGDGPMNLAVINGNNNQQMRGVARVQGEIPENADLKTLVGNGYVVITITPSEGERYQGVVGLEGDTLAACLEDYFMRSEQLPTRLFIRTGDVDGKPAAGGMLLQVMPAQNAQQDDFDHLATLTETIKTEELLTLPANEVLWRLYHEEEVTVYDPQDVEFKCTCSRERCADALKTLPDEEVDSILAEDGEIDMHCDYCGNHYLFNAMDIAEIRNNASPADPQVH |
| 2683 | sp|P55737|HS902\_ARATH | MADAETFAFQAEINQLLSLIINTFYSNKEIFLRELISNSSDALDKIRFESLTDKSKLDGQPELFIHIIPDKTNNTLTIIDSGIGMTKADLVNNLGTIARSGTKEFMEALAAGADVSMIGQFGVGFYSAYLVADKVVVTTKHNDDEQYVWESQAGGSFTVTRDTSGETLGRGTKMVLYLKEDQLEYLEERRLKDLVKKHSEFISYPISLWIEKTIEKEISDDEEEEEKKDEEGKVEEVDEEKEKEEKKKKKIKEVSHEWDLVNKQKPIWMRKPEEINKEEYAAFYKSLSNDWEEHLAVKHFSVEGQLEFKAILFVPKRAPFDLFDTKKKPNNIKLYVRRVFIMDNCEDIIPEYLGFVKGIVDSEDLPLNISRETLQQNKILKVIRKNLVKKCLELFFEIAENKEDYNKFYEAFSKNLKLGIHEDSQNRTKIAELLRYHSTKSGDELTSLKDYVTRMKEGQNDIFYITGESKKAVENSPFLEKLKKKGIEVLYMVDAIDEYAIGQLKEFEGKKLVSATKEGLKLDETEDEKKKKEELKEKFEGLCKVIKDVLGDKVEKVIVSDRVVDSPCCLVTGEYGWTANMERIMKAQALRDSSMAGYMSSKKTMEINPENSIMDELRKRADADKNDKSVKDLVLLLFETALLTSGFSLDEPNTFGSRIHRMLKLGLSIDDDDAVEADAEMPPLEDDADAEGSKMEEVD |
| 2684 | sp|Q6NG13|HRCA\_CORDI | MAGATDQRRQEVLRAIVADYIASQEPVGSKALLERHNLKVSSATIRNDMAVLESEGYIVQQHASSGRIPTEKAYRTFVDSINDIKPLSVAERRAILGFLERGVDLEDVLKRSVQLLSQLTRQAAVIQLPNLNVSRVKHCEVVLLSPVRLLLVLITDNGRVEQRNVEVDQICEPEHVAKMRDVLNRALDNKTLSDASASLAELAAGEILVDPDIQPMILRCATVLIETLVEQPNDRLILAGASNLTHIAREMPSSLPAMLEALEEQVVVLKLLTNVRDLGHVSVLIGEENEDEQLRGTSVVTTGYGAQGATLGGLGVVGPTFMDYSGTMSKVYAVAHYVSRVLSGG |
| 2685 | sp|Q57HC6|HSLU\_SALCH | MSEMTPREIVSELNKHIIGQDNAKRSVAIALRNRWRRMQLDEELRHEVTPKNILMIGPTGVGKTEIARRLAKLANAPFIKVEATKFTEVGYVGKEVDSIIRDLTDAAVKMVRVQAIEKNRYRAEELAEERILDVLIPPAKNNWGQAEQQQEPSAARQTFRKKLREGQLDDKEIEINLAAAPMGVEIMAPPGMEEMTSQLQSMFQNLGGQKQKPRKLKIKDAMKLLVEEEAAKLVNPEELKQDAIDAVEQHGIVFIDEIDKICKRGETSGPDVSREGVQRDLLPLVEGCTVSTKHGMVKTDHILFIASGAFQVAKPSDLIPELQGRLPIRVELQALTTSDFERILTEPNASVTVQYKALMATEGVNIEFTDSGIKRIAEAAWQVNETTENIGARRLHTVLERLMEEISYNASDLHGQNITIDAEYVSKHLDALVADEDLSRFIL |
| 2686 | sp|B0U5X0|HTPX\_XYLFM | MLTRIVLFAITNLAVLILASIVMSLLGVNPTQMSGLLVMALILGFGGSLISLLMSKAIAKHTTGAYVIEQPRNPSQRWLLDTVRRQAEIVGIGMPEVAIYEGPEINAFATGADRNNALVAVSTGLLQNMSQDEAEAVLGHEIAHVANGDMVTMALLQGVLNTFVIVLARVVGGFIDSLLSGNRGSGRGVAYYGIVLVLELLFGLFATIITMWFSRRREFRADEGGAYLAGRNKMIAALERLGINHGQSTLPTQVQAFGIYGGIGEGLRKLFLSHPPLSERIAALRMARE |
| 2687 | sp|B5FPU0|HSLU\_SALDC | MSEMTPREIVSELNKHIIGQDNAKRSVAIALRNRWRRMQLDEELRHEVTPKNILMIGPTGVGKTEIARRLAKLANAPFIKVEATKFTEVGYVGKEVDSIIRDLTDAAVKMVRVQAIEKNRYRAEELAEERILDVLIPPAKNNWGQAEQQQEPSAARQTFRKKLREGQLDDKEIEINLAAAPMGVEIMAPPGMEEMTSQLQSMFQNLGGQKQKPRKLKIKDAMKLLVEEEAAKLVNPEELKQDAIDAVEQHGIVFIDEIDKICKRGETSGPDVSREGVQRDLLPLVEGCTVSTKHGMVKTDHILFIASGAFQVAKPSDLIPELQGRLPIRVELQALTTSDFERILTEPNASVTVQYKALMATEGVNIEFTDSGIKRIAEAAWQVNETTENIGARRLHTVLERLMEEISYNASDLHGQNITIDAEYVSKHLDALVADEDLSRFIL |
| 2688 | sp|Q7NIB2|HRCA\_GLOVI | MSSFSFESSARLPLNPRFKQILHATVKSYIDTAEPVGSKMLTQQYNFGLSSATIRNAMAVLESWGLLFQPHTSAGRIPSDSGYRVYVDELISPPTELIQQMRAALAENLGERQDLESLLQGATRLLATLSGCVALITAPQSVFVSVRHLQIVHIGEGRALVIVVTDALQTRSFLLDLPQPEMAEQLETLNNFLNLQLQNRRLDDLNAAAVEAMGGEFHWYTDFLRGLIALLQRVLQPPTGQLYVSGVGEILKQPEFAEPERIQAIVQLLEVERERLGPLISPTQRHSRQIVVRIGAENPLGPMQFCSLVSSTYYLNEVPVGSVGVLGPTRLPYDRAIASVQAASDHLCQVMQAEDEPHRW |
| 2689 | sp|B5Z6N8|HSLV\_HELPG | MFEATTILGYRGEMGGKKFALIGGDGQVTLGNCVVKANATKIRSLYHNQVLSGFAGSTADAFSLFDMFERILESKKGDLFKSVVDFSKEWRKDKYLRRLEAMMIVLNLDHIFILSGMGDVLEAEDNKIAAIGSGGNYALSAARALDHFAHLEPRKLVEESLKIAGDLCIYTNTNIKILEL |
| 2690 | sp|G2K048|HRCA\_LISM4 | MLTERQLLIFRAIIDHFTWTIQPVGSKNLLKEKGLPYSSATIRNEMGVLEEYGFIEKTHSSSGRVPSEKGYRFYVDYLLQPKKLDKSDRQMIRSFFSENYYEMEGLIQNSALMLSDLTNYTSILLGPEATKNHLSGFRFVPINNFQAMLILITDQGHVDNHLVTIPEGTTLSDIERMVNILNERLVGLSLDDLKVQIPMEVKELLGKHVRNYESFMHVFSDSFAQASQQKVYFGGKTNILNQPEFHDINKVREMLHLMEEEQDVYELFRDIPDGLQVKIGRENNNSLMEDCSIITATYNIAGERVGGIVLLGPTRMEYSRMMGLVDVMSRDLTDVLTKLYRDNQN |
| 2691 | sp|Q96UX5|HSP78\_CANAL | MLSSRIPKGKLLKQTSATSYLNLAKSMPITTARYRPNQYYANELAKLNVFTIHNIPSPCFSQVRNFHSSFPRKLQMQQTEQGDNRPALEKFGSDLTQLAKEGKLDPVIGRDHEIRRTIQILSRRTKNNPVLIGNAGTGKTAVMEGLAQRIIRGEVPDSMKDKQIITLDLAGIISGAKYRGDFESKLKSILKEVEEKNGKVILFIDEFHLLMGLGKAEGSIDASNLLKPALARGKLSMCGATTIEEYRKYVEKDAALARRFSPVTVNEPTVEDTISILRGLKERYEVHHGVRIMDSALVTAALYSNRYITDRFLPDKAIDLVDEASSTLRLQHESRPDAIATLDRQIMTIEIELESLRKEEDQLSIDRKHKLEKELEVKKSELKELTDQWESEKRAIDAVKNAKSELEKAKYELEQATREGDYARASRIQYASIPELQDKIQELSKNELAAKSSNLLHDSVTSEDIAGVISKMTGIPVNNLLKGEKDKLLDMNILLRQSVVGQDEAIDAVSDAVRLQRAGLTSENRPIASFMFLGPTGTGKTEGGKSLAQFLFNDKNAVVRFDMSEFQEKHTISRLIGSPPGYVGYEESGELTEAVRRKPYSVVLFDEFEKAHPDLSKLLLQVLDEGSLTDSHGKKIDFKNTIIVMTSNIGQEILLADKNTYEDGHINSEVKSQVLENLRHHYAPEFLNRIDDIVVFNRLSKTALKEILDIRLREIGDRLVDKRIILQLTDEAKTLLCDMGYDPTYGARPLNRVLRKKLLDPLAMRLIKGQVQENETVKVEVKDHKIYVVPNHSEGTVIEKEEDYFKEDKDDN |
| 2692 | sp|A9BP03|HRCA\_DELAS | MLDERAKLLLKALIERYIADGQPVGSRTLSRASGLELSPATIRNVMADLEDLGLIISPHTSAGRIPTARGYRLFVDTMLTADRADIVTPELVPEQPQKVIANAANLLSSLSQFVGVVLVPRRTSVFKHIEFVRLSERRFLVIIVSPDGDVQNRVIFTDVDYSSSQLIEASNFLNSHYAGLAMEEVRERLKGEVELLRGEVATLMQAAVNIGTEAMTSAQEDVVIAGERNLLSVSDFSSDMGNLRRAFDLFEQKTQILRLLDFSSQAEGVRIYIGGESQVVPFEELSVVSAPYELDGKVVGTLGVIGPTRMHYDRMIQIVDITSKLVSNALSHKR |
| 2693 | sp|B9DVF5|HRCA\_STRU0 | MITERQNEILNLIIDLFTQTHEPVGSKALQASIETSSATIRNEMAKLEKLGLLEKAHTSSGRMPSPAGFKYFVEHSLSLDSVDESDIYQLVKAFDFEAFRLEDILAKASQVLADMTHYSVAILDVEPSHQKLTAFDIVQLSNHDALAVLNLDESKPQTVQFAIPKNFLTRDLVKIKEIVDERLLGRNLMDVHYKLRTEIPQILQKYFTVTDNVLDLFEYIFRELFQESIFVSGKVNALEYAGLDTYQFLNNEQHLAFTIRQGMSENEMATVQVADSNEPALANLSLLTYKFLIPYRGFGLLSLIGPIDMNYRRNVSLINVMGRILAIKLRDYYRYLNSNHYEVN |
| 2694 | sp|B1LCI0|HRCA\_THESQ | MRRLNRKNNEALKKLNDRQRKVLYCIVREYIENKKPVSSQRVLEVSNIEFSSATIRNDMKKLEYLGYIYQPHTSAGRIPTDKGLRFYYEEMLKISKETSEADLAVETFKSVPLADPEKILFLAGNLLARLTQGYVLIERPNTRDLKILRVMLIPVSEDYLIFSILTEFGVSRVTPIKTQERLNWEEIERQLNFLLRGRTIGEVLMGKIESLKGSGFLRLIESLIGETVERYLDAGLENLLKDETLTLEDIRNLLEEVKDQKFLESLVGEGITVRIGREIGRKNLEKFAVFSGRYFKGESPIGSVYFFTSKVTRYDRNHKIFEYILNRLSEYFTSTSRR |
| 2695 | sp|Q74IT4|HRCA\_LACJO | MLTERQELILKTIIMDFTQTHEPVGSKTVMNQLPVKVSSATVRNEMAVLEEKGLLEKTHSSSGRIPSTAGYRYYLDHLINPVKIPTSVYNQIVYQLDRPFQQVNEIVQEAAKILSDLTNYTAFAAGPETHSVKVTGFRIVPLSSHQVMAILVTDDGNVKNQIYTLPHHTNGEEIEKAVRLINDQLVGKSLSSINEVLLKRIADHLIARGSAPEILDLLQDVIKDAASEQMYVDGQINLLSNYENDDLTKIKSLYKLIDQNDALSSLIGFNPEDELKNDSSSKVQVKLGSELPSDLLENYSLLTAQYSVGKYGKGTIALLGPTNMPYSQMIGLLEYFRNELAKKLLDYYGRFK |
| 2696 | sp|Q0AWM1|HRCA\_SYNWW | MTLDERKRNILGSIIRDYVETAEPVGSRAMVKKHDLKISAATVRNEMADLEDMGYLEQPHTSAGRIPSERGFRYYVDCMMEKEPPGEREYALLQQLFEQNIEDWEQVILGIAHFLSQMTRYTSFVIVPAVKFTEFRNLQLLPLDQGKALLLLVCDMGVIMHRIISIPEFISSQDLQAITGLFNQAFIGKRLEEVKRSDLQLIRENLSQRRQIIDNALEAIDNLLQNSRDEKVMVSGALNILNEPEFKDMDKLKRILNVLEEDDSLRQIIPGELGEAVDIKIGRENPLEEIKEMSLVVAGYKSFGELGKIGVIGPVRMEYWKAVGTVETVRDIIEDYLKGLG |
| 2697 | sp|Q9KD74|HRCA\_BACHD | MLTDRQLLILQAIVDDYIRSAEPVGSRSISKREDITFSPATIRNEMADLEELGFLEKPHSSAGRIPSQKGYRYYVDHLLMPHRLTKKERHYIHELFTKRIQEVEQAIQQSAQILSSMTRYISVVLGPEMFETKLKSIHMIPLTAHSVVVIFVTDTGYVENQTMHLPHSVNPVDLEKTVNILNERLAGVSLFQLREKLNKEVADVLRFHVTNYELVLDLLEKTFEAEKSEKVFYGGKTNLLSQPEFRDVEKIKQILTILEQDDVMHQMIRSSGEQIQVRIGHENNVEAFEDLSVITASYSIGGKHMGTIGIVGPTRMEYRRTISVVEHLSKDLTKLLTDLYQQS |
| 2698 | sp|B7NQY6|IBPB\_ECO7I | MRNFDLSPLMRQWIGFDKLANALQNAGESQSFPPYNIEKSDDNHYRITLALAGFRQEDLEILLEGTRLSVKGTPEQPKEEKKWLHQGLMNQPFSLSFTLAENMEVSGATFVNGLLHIDLIRNEPEPIAAQRIAISERPALNS |
| 2699 | sp|B7N2D2|IBPB\_ECO81 | MRNFDLSPLMRQWIGFDKLANALQNAGESQSFPPYNIEKSDDNHYRITLALAGFRQEDLEIQLEGTRLSVKGTPEQPKEEKKWLHQGLMNQPFSLSFTLAENMEVSGATFVNGLLHIDLIRNEPEPIAAQRIAISERPALNS |
| 2700 | sp|Q5PKS5|IBPA\_SALPA | MRNFDLSPLYRSAIGFDRLFNLLENNQSQSNGGYPPYNVELVDENHYRIAIAVAGFAESELEITAQDNLLVVKGAHADEQKERTYLYQGIAERNFERKFQLAENIHVRGANLVNGLLYIELERVIPEANKPRRIEIN |
| 2701 | sp|A7ZTP0|IBPB\_ECO24 | MRNFDLSPLMRQWIGFDKLANALQNAGESQSFPPYNIEKSDDNHYRITLALAGFRQEDLEIQLEGTRLSVKGTPEQPKEEKKWLHQGLMNQPFSLSFTLAENMEVSGATFVNGLLHIDLIRNEPEPIAAQRIAISERPALNS |
| 2702 | sp|B1X9B6|IBPB\_ECODH | MRNFDLSPLMRQWIGFDKLANALQNAGESQSFPPYNIEKSDDNHYRITLALAGFRQEDLEIQLEGTRLSVKGTPEQPKEEKKWLHQGLMNQPFSLSFTLAENMEVSGATFVNGLLHIDLIRNEPEPIAAQRIAISERPALNS |
| 2703 | sp|Q9Y547|IFT25\_HUMAN | MRKIDLCLSSEGSEVILATSSDEKHPPENIIDGNPETFWTTTGMFPQEFIICFHKHVRIERLVIQSYFVQTLKIEKSTSKEPVDFEQWIEKDLVHTEGQLQNEEIVAHDGSATYLRFIIVSAFDHFASVHSVSAEGTVVSNLSS |
| 2704 | sp|B5XXW1|IRAM\_KLEP3 | MKWTILNTLICPQSGIAFSAISSLRFLKFIMWYEADVILLPGESMKLYSSRVLINDQYHSLKIYNITVYDEAQWEKLRERPSCPYQAGGKQSDSCFFQSFCAIKRCPNNIPRGEPWR |
| 2705 | sp|Q5PFV0|IRAP\_SALPA | MKNLIAELLLKLAQKEEESKELVAQVEALEIIVTAMLRNMAQNEQEMLIRQVEGALEGVKPDASVPDHDTELLRQYVKKLLRHPRH |
| 2706 | sp|Q09499|IRE1\_CAEEL | MRATFHLFTFIFLLLFSSVICISTPGFRNDHESIGDDEEKTSSTILVSTIDGRLRALDSETGEIKWTLQEEPVLRSPSAVKQGFTFLPNPLDGSLYVLKNSSLKKLPFNIPQLVHASPCKGNDGILYAGSKKDVWFGIDPKTGLKVETLSSASADRICPANQKQTIFLGRTEYRVSMFDEKNRGKTWNATFNDYSAHLLPEVNTWPFKHYASSSHGYILTFDRETGEMRWEQDLKQPVVALYLLRDDGLHKLPFEVMGKETMENVAKNIFTVDQWPTVLGVNAADPQTTSLTNQFFPALFVGESSFGLYAIEALVDHQTITYSPKLLGPPLLEGPAPIALTEMEKEEYLPPRRPIIRNIPPSITHKTSDGEYLLLGYHDRPMMTMATIIPTRYPVPGPHKAIGSTIERPPPQLLGPVEPQKHEDTSFILLLLNNHPIPFYATLVTMFALLLTVIWQCGRQWDQQKSTSRMDSFEIVNNPGESRSAQTSKQSNRGSFGWANRKIEIPEGWMAVGSKLMYSPSDILGTGCEGTVVYRGTFDGREVAVKRVVSEFVKFAHREADLLRESDTHPHVIRYFCMESDSQFRYLALELCIASLNDYVEQKEVQQNVTIALRDIMKQATDGLAHLHASKIVHRDMKPQNVLITMASQRGEMRAVISDFGLCKRVQPGKNSISRGIASGLAGTDGWIAPEVLISASTSYPVDIFSLGCIFYYVLTSGTHPFGKSLHRQANIVNGEYTLNKLADLDDWSLADDLISSMLNVEPLHRLTADAVLNHPFFWTSEKRLAYFSDVSDRVEKEEDNSPVVRRIETDARIVVCGGWREKICDALKEDLRKFRTYKSFSVRDLLRAMRNKKHHYRELPEDVRQSLGDIPDQFLHYFTSRFPRLLLHVYKATEYCSGEAVFKRYYSDDVRARMYPIVEEEERVRKKIKEEMANEVWARAPKPVEQRTPLKLDKRNIKKKSNPNTD |
| 2707 | sp|O60870|KIN17\_HUMAN | MGKSDFLTPKAIANRIKSKGLQKLRWYCQMCQKQCRDENGFKCHCMSESHQRQLLLASENPQQFMDYFSEEFRNDFLELLRRRFGTKRVHNNIVYNEYISHREHIHMNATQWETLTDFTKWLGREGLCKVDETPKGWYIQYIDRDPETIRRQLELEKKKKQDLDDEEKTAKFIEEQVRRGLEGKEQEVPTFTELSRENDEEKVTFNLSKGACSSSGATSSKSSTLGPSALKTIGSSASVKRKESSQSSTQSKEKKKKKSALDEIMEIEEEKKRTARTDYWLQPEIIVKIITKKLGEKYHKKKAIVKEVIDKYTAVVKMIDSGDKLKLDQTHLETVIPAPGKRILVLNGGYRGNEGTLESINEKTFSATIVIETGPLKGRRVEGIQYEDISKLA |
| 2708 | sp|Q5HCV0|LDH2\_STAAC | MKTFGKKVVLIGDGSVGSSYAFAMVTQGVADEFVIIDIAKDKVKADVQDLNHGTVHSPSPVDVKAGEYEDCKDADLVVITAGAPQKPGETRLQLVEKNTKIMKSIVKSVMDSGFDGYFLIAANPVDILTRFVKEYTGLPAERVIGSGTVLDSARLQYLISQELGVAPSSVDASIIGEHGDTELAVWSQANVAGISVYDTLKEQTGSEAKAEEIYVNTRDAAYEIIQAKGSTYYGIALALMRISKAILNNENNVLNVSIQLDGQYGGHKGVYLGVPTLVNQHGAVKIYEMPLSAEEQALFDKSVKTLEDTFDSIKYLLED |
| 2709 | sp|P22989|LDHB\_HORVU | AGDASSGFFRAVADGCPITHTSCSAPHRRLTKVSVIGAGNVGMAIAQTILTQNLADEIALVDALPDKLRGEALDLQHAAAFLPRVRIVSGTDAAVTKNSDLIVVTAGARQIPGETRLNLLQRNVALYRKIVPPVAEHSPDALLLVVSNPVDVLTYVAWKLSGFPASRVIGSGTNLDSSRFRFLVAEHLDVSAQDVQAYMVGEHGDSSVAIWSSISVGGMPALKSLRDSHRSFDEAALEGIRRAVVGGAYEVIGLKGYTSWAIGYSVASLATSLLRDQRRVHPVSVLAAGFHGISDGHEVFLSLPARLGRAGVLGVAEMDLTEAEAAQLRRSAKTLWENCQLLGL |
| 2710 | sp|Q2GE60|LON\_NEOSM | MSEEELNNRDTESKQEHDENNSNFEAGSAHMNLPVLPLREVIFFPGDYLPIFIGRKGSIQAMDKALAETSENTGRMLLIAQKNPKKEIPEGKDLYEVGVIAKIAEPKINLQDGGVKLMVIVECRARAVNFRKSEGVLEADVLPIEEEESDNVDIEAYRRAVVQNFEKCVKLSETIPDEIIGLLSQIDSTSRIADLVTASINLKLSVKQEILETVDLLERIKKVHALLEKELGVLQVKQQIKEKTESQIKKSHKVYLLNEQLKAITKELYDKEGEEYDELVDLEKKIGNGKLSAEAKEKVSKELKKLKNMVPMSAEATVVRNYVDWIISLPWKKKGKMITDIAASERILKASHYGIEKVKERIIEYLAVQNRTKSFKGSILCLLGPPGVGKTSLASAIAEATGRPFVRMSLGGIKDESEIKGHRRTYIGAMPGKIIQHMKKAKLSNPVFLLDEIDKMSSDFRSDPAFALLEVLDPEQNAHFVDHYLEVEYDLSDVMFVATANSLNMIPALLDRLEIIRLEAYSEEEKLQIAEHYLIGKLQREHGLKKSEWSISKEALKLLIRRYTRESGVRNLKRELANLMRKAVKKLGVQSGLKSIEVSVKNLKKYAGVEKYTFGTAEPENLVGMTTGLAYTQTGGDLIMIEAVLLPGKGEIRSTGKLGEVMQESVQAAYSFVCSNCNKFGFTSKFFKSKDVHLHVPEGATSKDGPSAGVAICTSIVSVMTGIPVRSNVAMTGEVSLRGKVMEIGGLKEKLLAAVRGGIKIVLIPASNEKDLENIPKSVKNAVRIIPVSTVSEALTFTLAEQPTPLAVDVWPDIPLSSTQQSEQRV |
| 2711 | sp|Q6ML73|LON1\_BDEBA | MSYVSGYVPVIPLKNSVLFPDISMPLRIGREKSIAALQKALRDNHWVILLTQKNPNASVDKIEDLYQVGTLAKVESFRMEEDGSYNIFVKAHQRVRLIHSRDSEGHIEAQTEALEDSGRLDKKTEEALLSSLRQLSDDLLDLLPGNTRQIREMIAEIEDLQTLVNMCAAYADINISDKQEILEIPLLKDRALKLLDRLQELKERLKIQRGIRDKLQESFQQNQKESILREQMRVIREELGDHEGEDLFAKFKDKIDKAGMPPEALELAKNQLRRLETSNSASPEYQMIRTHLELMTSLPWNQSSAQQDIDLEAAERVLNEDHYGLEKIKKRILQHLAVMKLRKSQQGSILMFIGPPGVGKTSLGKSIARALGKKYVRVALGGVRDDAEIRGHRRTYIGALPGRIIAGIKKAGENDPVFILDEIDKLTRGFGGDPASAMLEVLDPEQNNTFQDHYLDTPFDLSKVFFIATANSLEGIPLPLLDRMEVIDLSGYTVDEKRQIARSHLWPKQLKEHGLEENQLQITDQALTKLLTHYTREAGVRDLQRKIASICKHMSLKIIKSEGLPLLVEEQDLEDIFGAERFSADMIGSLLPPGVVTGLAWTPVGGDILFIESAQMPGKGNLLLTGQLGEVMQESAKIALTLLKSRLPLLDPLLDFAKKDIHVHVPAGAIPKDGPSAGITMLTSMASMLLNKPVDPKVAMTGEISLRGSVMPVGGIKEKVIAAHRAGVQEILLCKRNEKDLREIPEDIRKDLRFHFVEDVNEVLKITLGVNVPKWDQVQLPPPSPLSSTDAGT |
| 2712 | sp|Q9ULX9|MAFF\_HUMAN | MSVDPLSSKALKIKRELSENTPHLSDEALMGLSVRELNRHLRGLSAEEVTRLKQRRRTLKNRGYAASCRVKRVCQKEELQKQKSELEREVDKLARENAAMRLELDALRGKCEALQGFARSVAAARGPATLVAPASVITIVKSTPGSGSGPAHGPDPAHGPASCS |
| 2713 | sp|O15264|MK13\_HUMAN | MSLIRKKGFYKQDVNKTAWELPKTYVSPTHVGSGAYGSVCSAIDKRSGEKVAIKKLSRPFQSEIFAKRAYRELLLLKHMQHENVIGLLDVFTPASSLRNFYDFYLVMPFMQTDLQKIMGMEFSEEKIQYLVYQMLKGLKYIHSAGVVHRDLKPGNLAVNEDCELKILDFGLARHADAEMTGYVVTRWYRAPEVILSWMHYNQTVDIWSVGCIMAEMLTGKTLFKGKDYLDQLTQILKVTGVPGTEFVQKLNDKAAKSYIQSLPQTPRKDFTQLFPRASPQAADLLEKMLELDVDKRLTAAQALTHPFFEPFRDPEEETEAQQPFDDSLEHEKLTVDEWKQHIYKEIVNFSPIARKDSRRRSGMKL |
| 2714 | sp|A0PWB3|MPRB\_MYCUA | MVGFRRGPRAPLRATSSLSLRWRVMLLAMSMVAMVVVLMSFAVYAVISAALYSDIDNQLQSRAQLLIASGSLAADPGKAIEGTAYSDVNAMLVNPGRSIYTANQPGQTLPVGAPEKAVIHGDLFLSRRTVSDQRVLAIHLPNGSSLLISKSLKPTEAVMTKLRAVLLIVGGVGVAVAAVAGGMVTRAGLRPVGRLTEAAERVARTDDLRPIPVFGSDELARLTEAFNLMLRALAESRERQARLVSDAGHELRTPLTSLRTNVELLMASMEPGAPRLPEQEMVGLREDVVAQIEELSTLVGDLVDLTRGDAGVVVHEPVDMAEVVDRSLERVRRRRNDIHFDVDVVGWQVYGDAAGLSRAALNLMDNAAKWSPPGGRVGIRLRQLDPSHAELVVSDNGPGISPQERRLVFERFYRSTSARAMPGSGLGLAIVKQVVLNHGGSLRIEDTVPGGQPPGTAICMLLPGRPMPDSAYPAAPDDKKTEPVDTRGANGANSRGSANVISVDSQSARAR |
| 2715 | sp|Q53NF7|NAC71\_ORYSJ | MECGGALQLPPGFRFHPTDDELVMYYLCRKCGGLPLAAPVIAEVDLYKFNPWDLPERAMGGEKEWYFFSPRDRKYPNGQRPNRAAGTGYWKATGADKPVGSPRAVAIKKALVFYAGKPPKGVKTNWIMHEYRLADVDRSAAARKLSKSSHNALRLDDWVLCRIYNKKGVIERYDTVDAGEDVKPAAAAAAAKGGRIGGGGGAAAMKVELSDYGFYDQEPESEMLCFDRSGSADRDSMPRLHTDSSGSEHVLSPSPSPDDFPGGGDHDYAESQPSGGCGGWPGVDWAAVGDDGFVIDSSLFELPSPAAFSRAAGDGAAFGDMFTYLQKPF |
| 2716 | sp|A6ZRZ0|NST1\_YEAS7 | MPPNSKSKRRKNKSKQHNKKNGNSDPEQSINPTQLVPRMEPELYHTESDYPTSRVIKRAPNGDVIVEPINTDDDKKERTANLTHNKDSMDSASSLAFTLDSHWESLSPEEKKTILRIEKEEVFNVIRNYQDDHSCSCSVCGRRHLAMDQEMERIYNTLYAMDKDKDPETNPIKFHLGIIKELQISKNQQQNDLSSTKGEVVKNFLSSSTVGSLKEEVLHFKQKQLSKQEQAHNETADNTSLLEENLNNIHINKTSSEISANFNSVSDEELQQKYSNFTKTFISSHPKIAEEYVQKMMMYPNIRALTDDLMNSNGQGFLNAIEDFVRDGQIQASKKDDSITEDEASSTDLTDPKEFTTMLHSGKPLTEDEYADLQRNIAERMTNAYDTASKKFKDVSQLEKELFTRFMSGRDKKSFRELIIQSFKNKFDGELGPSVLAATLSSCFSSQSKDTSLDTDSIYEDEDEEDYDDYSEYAEDSEEVSEYEGIEAVEKPEHDEKSNGIRETLHLSYDHDHKRQNHPHHHYHSTSTHSEDELSEEEYISDIELPHDPHKHFHRDDDILDGDEDEPEEEDENEGDDEEDTYDSGLDETDRLEEGRKLIQIAITKLLQSRIMASYHEKQADNNRLKLLQELEEEKRKKREKEEKKQKKREKEKEKKRLQQLAKEEEKRKREEEKERLKKELEEREMRRREAQRKKVEEAKRKKDEERKRRLEEQQRREEMQEKQRKQKEELKRKREEEKKRIREQKRLEQEKLQKEKEEEERQRLIAEDALRKQKLNEEQTSANILSAKPFTENGVGNPVSSQSHPNMTNYQEDNSCSINDEILKMVNSVAASKPVSPTGFNVHDLLLPSTNNQMPAMEQSHLSQPGNQNNHFGTTTIPNALDLATKSSLQTENNYLMNSQTLENTSLLMHNNSSPTKLLPNDFGLSSWGGLTNTMSINPTCKPPVIQTSEMKSQAHKSSPQATMPSFGLPNGGTHRKSFTDELNTLTSMLSSSGFADTSLSSSGFPPSQRSVWNDQKSSFSGPSTAGNFNNSSIQSGMLLAPTLGSVESFPNRTSIWDSSTTPMMNKSELSGRNITSTAQDSPAFMASNIWSSNSQYNSPYLTSNVLQSPQISSGVDESHILDSIYNTYLAISPQDSLNPYIAIGTLFQNLVGLNLDYSTFINKLISMQGAYNCEFFTDNNGSITHVRFARQTPAGHSKGLLNQLFSGLNDPTATPFTSRPHTSTGASFPIASSTTQTS |
| 2717 | sp|A7EMM3|NST1\_SCLS1 | MPANQRKQTSQSSYLQTPRNTATPSTQDAGKSVIAPKSSTSDSSETFLTMAQTTTKSNGQLPTPSANINGVPPTVNRKKQKRRAKQAARAAAEQAQGSQTNGGPSPGDVKKQMQELEARFRETGLDEQYDDDEQLDPAEDNAYYSDEEGDAYSGSYGHDGSSTNGYAMPTTNSSSKKQKKKKKSKSSQSDNSNYAHHGPNGSSHNHVSLPIPLQSPPNMQRGPGISKEKIWNTSSQEERERIKEFWLSLGEDERKSLVKVEKDAVLKKMKEQQKHSCSCTVCGRKRTAIEEELEVLYDAYYEELEQYANHQGGDGPPPMMPPPRRFGAMSGLQPPNRLPPVFTGQQPSRGRIVEQLGDDEDEEGDEEYSEDDADEDDYSDEEPEEIPRSHATDFFNFGNSLTVQGGILTVADDLLKNDGKKFIEMMEQLAERRMAREEDAKEQYANANYGHPPNGSMHPHSHGHLHNHPPPPEEDDYDDEEDDEDEYDSQEEDYDEEEMDSMTEEQRMEEGRRMFQIFAARMFEQRVLTAYKEKVAKERQQKLLEELEEESRADSLRKAKKAKDAQKKKEKLLEKKRALAEEKARKEAEKAAEEASLREIEEKKAEEQRLKREENRKKKEAQKKADEEERVRKEAEKQRRLQEQRERQAEQERKQREAKEREKKEKEELRRQALEAKEAKEKEAKERREKHEREKREKEAKVKADKEARELQKREEVAAQQAAVQAAQSAAQASRRPNQVPTPNLSHVLASPHISVAIPAVPKAPTPIKLRTNSQQENHSTIPRTPSGIPQSPFAGMQPMPGGLQPGMPMVPPGFGRPHHDPMFTHQQPIGNQFRPLPIPNGGMPQFQPGFNMHHMPQGRGFPMHGPPGFPQPSPNGMGSIGQLFGAPKEAPPSQAHSRNQSGSFDALSSTTQAQPIARPAPIGRPSSIVHGARHGDKSSNGEPDESSKHLGSSALLDDTDEPLKVGMGPRRSSAAPGNSSRQNFLPPPFGMDRSDPAGMMSSFGTWGAPPNPFGSSSLPGSNGFGGGWNTSLNMNNSFGMPPYFRPSQPRSVAVRLMICMACQNLQSSTPDGWLDIDSIKNEVALLNPPREEPVSERELLDICDTEGNQMNGGGTFEIRHSNGKSQIHYVSDPTPHDFRAVGAPGEIGSPISGNASRNPGPPGRAPIGGF |
| 2718 | sp|Q5M755|PAP7\_ARATH | MTSNLFQPPSMAASRGAISRRTGNVKVLVSFTSSNGKTLSFSDNSFRLRPMFIGKVTEQSSCSSPNEQQQDEEQEQEQEEITVSHIKEELYEALKGINRGIFGVKSDKKTEIEGLVKLLECRNPTPEPTGELDKIGGCWKLIYSTITVLGSKRTKLGLRDFVSLGDLLQQIDIAQGKTVHVLKFDVRGLNLLDGEFRIVASFKISSKSSVEITYESSTIKPDQLMNIFRKNMDLLLGIFNPEGLFEISYLDEDLQVGRDGKGNVFVLERIEKP |
| 2719 | sp|Q9C6W5|AB14G\_ARATH | MPQNCIAPRPEEDGGVMVQGLPDMSDTQSKSVLAFPTITSQPGLQMSMYPITLKFEEVVYKVKIEQTSQCMGSWKSKEKTILNGITGMVCPGEFLAMLGPSGSGKTTLLSALGGRLSKTFSGKVMYNGQPFSGCIKRRTGFVAQDDVLYPHLTVWETLFFTALLRLPSSLTRDEKAEHVDRVIAELGLNRCTNSMIGGPLFRGISGGEKKRVSIGQEMLINPSLLLLDEPTSGLDSTTAHRIVTTIKRLASGGRTVVTTIHQPSSRIYHMFDKVVLLSEGSPIYYGAASSAVEYFSSLGFSTSLTVNPADLLLDLANGIPPDTQKETSEQEQKTVKETLVSAYEKNISTKLKAELCNAESHSYEYTKAAAKNLKSEQWCTTWWYQFTVLLQRGVRERRFESFNKLRIFQVISVAFLGGLLWWHTPKSHIQDRTALLFFFSVFWGFYPLYNAVFTFPQEKRMLIKERSSGMYRLSSYFMARNVGDLPLELALPTAFVFIIYWMGGLKPDPTTFILSLLVVLYSVLVAQGLGLAFGALLMNIKQATTLASVTTLVFLIAGGYYVQQIPPFIVWLKYLSYSYYCYKLLLGIQYTDDDYYECSKGVWCRVGDFPAIKSMGLNNLWIDVFVMGVMLVGYRLMAYMALHRVKLR |
| 2720 | sp|Q05JG2|ABAH1\_ORYSJ | MGAFLLFVCVLAPFLLVCAVRGRRRQAGSSEAAACGLPLPPGSMGWPYVGETFQLYSSKNPNVFFNKKRNKYGPIFKTHILGCPCVMVSSPEAARFVLVTQAHLFKPTFPASKERMLGPQAIFFQQGDYHAHLRRIVSRAFSPESIRASVPAIEAIALRSLHSWDGQFVNTFQEMKTYALNVALLSIFGEEEMRYIEELKQCYLTLEKGYNSMPVNLPGTLFHKAMKARKRLGAIVAHIISARRERQRGNDLLGSFVDGREALTDAQIADNVIGVIFAARDTTASVLTWMVKFLGDHPAVLKAVTEEQLQIAKEKEASGEPLSWADTRRMKMTSRVIQETMRVASILSFTFREAVEDVEYQGYLIPKGWKVLPLFRNIHHNPDHFPCPEKFDPSRFEVAPKPNTFMPFGNGTHSCPGNELAKLEMLVLFHHLATKYRWSTSKSESGVQFGPFALPLNGLPMSFTRKNTEQE |
| 2721 | sp|C1DFM4|GRPE\_AZOVD | MADEQNLDNRAPEETPAAEGTSAGEDLAARVQALEEQLAAAQDQALRAAAELQNVRRRAEQDVEKAHKFALERFAQDLLGVVDSLERGIELSDPADESIRPMREGMELTLKMFHDVLRRYQLEQLDPHGEPFNPEHHQAMAMEESDSAEPGSVLKVFQKGYLLSGRLLRPAMVVVSKAPTPSNDEQA |
| 2722 | sp|A9IGC0|GRPE\_BORPD | MTASQEPVDQAPESNEPAPAVPATVEALQAELAAVRAELEAAQATVAGQQEQVLRARADAENVRRRAQEDVSKARKFGIESFAESLVPVKDSLEAALAQPDQTLEALREGVEVTLKQLTGAFERNLLKEIAPAQGDKFDPHLHQAISSVPSDQPANTVAQLLQKGYAIADRTLRPALVIVSAGQA |
| 2723 | sp|P0DQD7|GNDA\_ECOLI | MLLLIPSNHISIKETSSLMVVTPSSRTLFVVIVSFQQRALTSSVPVFLAVKRGR |
| 2724 | sp|Q05562|GRPE\_STRCO | MTEETPGFEEKPDVPSGATPDDAEPQAASEEGAAPAGDASENAGLVAQLDQVRTALNERTADLQRLQAEYQNYRRRVERDRVAVKEVAVANLLSELLPVLDDVGRAREHGELVGGFKSVAESLETTVAKLGLQQFGKEGEPFDPTIHEALMHSYAPDVTETTCVAILQPGYRIGERTIRPARVAVAEPQPGAQTVKPAEDAAEAQDSSGAEDDAGTKESGGPDEG |
| 2725 | sp|P63193|GRPE\_STRP8 | MAVFNKLFKRRHSVSEEIKKDDLQEEVEATETEETVEEVIEETPEKSELELANERADEFENKYLRAHAEMQNIQRRSSEERQQLQRYRSQDLAKAILPSLDNLERALAVEGLTDDVKKGLEMTRDSLIQALKEEGVEEVEVDSFDHNFHMAVQTLPADDEHPADSIAEVFQKGYKLHERLLRPAMVVVYN |
| 2726 | sp|B4SSQ5|GRPE\_STRM5 | MNHEHPDIESQQSAADAAAAAGVNDEVERLRAELDQVKADVLRERADLENQRKRVARDIEQARKFANEKLLGELLPVFDSLDAGLKAAGDDAHPLREGLELTYRQLLKVAGDNGLVLLDPTGQPFNPEHHQAISQVPTPGAAPGSVVTVFQKGYLLNERLLRPALVVVAAD |
| 2727 | sp|B8ET77|GRPE\_METSB | MNDLKNAENGPDEADTPQGAPSQEPDPFVVLENLQAENTSLKDKLLRTLADMENLRRRTEKEVADAKTYGVTSFARDMLTFADNLHRALANVPAEARAKAEPAVQTLIEGLQLTERDFASRLERFGVKKIDPAGQKFDPNLHEALFEQPDESVPNGTVTQVIEPGYVIGERVLRPAKVGVSRGGPKG |
| 2728 | sp|Q3B2T4|GRPE\_PELLD | MMKKAEDPLQDREGTIQEHTEGQAGTAAADQSAAVETPESRIAGLEREVQAEKEQNGKFRDELLRRAAEFENFRKQKEREAVMASQRATDNVLRDLLTLVDDVERVLANVPEPEEIPAAAKPYIDGVELLKKNLDRWLESKGVKPIEAIGMKLDVDFHEAISQIEHPDAEPETIVEQYQTGYLLGDRVLRHAKVIVAR |
| 2729 | sp|A5I9G0|HFQ\_LEGPC | MSKNHLLQDPFLNELRKEKVPVSVFLVNGIKLHGIIDSFDQYVVMLKNSITQMVYKHAISTVVPSRMVKIPAEESSGEEEGTVAD |
| 2730 | sp|Q0I441|HFQ\_HAES1 | MAKGQSLQDPYLNALRRERIPVSIYLVNGIKLQGQIESFDQFVILLKNTVNQMVYKHAISTVVPARSVSHHNSVQHHHIVQTQEMQVEALAENQTE |
| 2731 | sp|P0A3G8|HFQ\_BRUSU | MAERSQNLQDLFLNSVRKQKISLTIFLINGVKLTGIVTSFDNFCVLLRRDGHSQLVYKHAISTIMPSQPVQMFEGEEA |
| 2732 | sp|B6IBQ7|HTPX\_ECOSE | MMRIALFLLTNLAVMVVFGLVLSLTGIQSSSVQGLMIMALLFGFGGSFVSLLMSKWMALRSVGGEVIEQPRNERERWLVNTVATQARQAGIAMPQVAIYHAPDINAFATGARRDASLVAVSTGLLQNMSPDEAEAVIAHEISHIANGDMVTMTLIQGVVNTFVIFISRILAQLAAGFMGGNRDEGEESNGNPLIYFAVATVLELVFGILASIITMWFSRHREFHADAGSAKLVGREKMIAALQRLKTSYEPQEATSMMAFCINGKSKSLSELFMTHPPLDKRIEALRTGEYLK |
| 2733 | sp|P27879|HSP11\_MEDSA | DPFSLDVWDPFKDFPFTNSALSASSFPQENSAFVSTRIDWKETPEAHVFKADLPGLKKEEVKVEIEDDRVLQISGERNVEKEDKNDQWHRVERSSGKFMRRFRLPENAKMDQVKAAMENGVLTVTVPKEEIKKPEVKSIEISS |
| 2734 | sp|P22943|HSP12\_YEAST | MSDAGRKGFGEKASEALKPDSQKSYAEQGKEYITDKADKVAGKVQPEDNKGVFQGVHDSAEKGKDNAEGQGESLADQARDYMGAAKSKLNDAVEYVSGRVHGEEDPTKK |
| 2735 | sp|Q7W0M8|HTPG\_BORPE | MSQTTTTSASETLGFQAEVKQLLHLMIHSLYSNKEIFLRELVSNASDACDKLRFEAIDQPGLLEGDGELAIRVGYDKAARTITISDNGIGLSRDEAVANLGTIARSGTREFFSQLTGDKQKDAQLIGQFGVGFYSSFIVADKVTVLSRRAGLAANEAIRWESDGQGEFSIAPAEKAGRGTDVVLHLRADEDELLNGWKLREILRRYSDHISLPIRMAKEDWDAEKGEQVKGDELETVNQANALWTRNKSDITDEQYREFYKTVSHDYDDPLAWTHNRVEGRSEYTQLLYVPKHAPFDLWDRDARRGVKLYVKRVFIMDDAEQLLPSYLRFVRGVIDSADLPLNVSREILQESRDVRAIREGSAKRVLSLLEDMAENKAEDYATFWTEFGQVLKEGTGEDAANRERIARLLRFASTHDGEQAQTVSFADYVGRMKDGQDKIYYVTADTFTAAANSPHLEIFRKKGIEVLLLSDRVDEWMLSYLREFDGKSLVSVAKGGLDLAELADEEEKKRQSEVAETFKPLVERLQQALAEQVKEVRVTQRLVDSPACVVVGQNELSPHLLRMLKAAGQEAPEVKPVLEINPDHALVARIRDASDAEFGDWAALLLDQALLAEGAQIADPAAFVKRLNGLLLKA |
| 2736 | sp|B5BHB2|HTPX\_SALPK | MMRIALFLLTNLAVMVVFGLVLSLTGIQSSSVQGLLIMALLFGFGGSFISLLMSKWMALKSVGGEVIEQPRNERERWLMNTVATQARQAGIAMPQVAIYHAPDINAFATGARRDASLVAVSTGLLQNMSPDEAEAVIAHEISHIANGDMVTMTLIQGVVNTFVIFISRIIAQIAAGFLGGNRDEGEGSNGNPLIYFAVATVLELVFGILASIITMWFSRYREFHADAGSAKLVGREKMIAALQRLKTSYEPQEATSMMAFCINGKSKSLSELFMTHPPLDKRIEALRSGEYLK |
| 2737 | sp|Q5WJE6|HTPG\_BACSK | MEKKQFQAESKRLLEMMVNSIYSQKEIFLRELISNASDAIDKMYYRSLTDDSLSFEKDRYAIYVEADKDNRKLVMKDTGIGMTKEELEANLGTIAKSGSLAFKKETEIEDGHDIIGQFGVGFYAAFMVADKVTVITRSIDSDQAYKWESDGTDGYTIEPAEKEDVGTVITLHIKENTDDESYDEYLEEYRIKAIIKKYSDFIRYPIKMNVTVSKPKEDNEDEYAEYQEEQTINSMVPIWRKNKSELKDSDYEQFYQDKRYGFDKPLEHIHVSVDGAIRYNAILFIPEHTPFDYYSKEYEKGLELYANGVLIMEKCAELLPDYFSFVKGMVDSEDLSLNISREMLQHDRQLKLIAKNIKSKIKSQLKTMLKKEPDKYEKFYKAFGRQLKFGVYNDFGANKDDLQDLLLFYSSTEKKLVSLSDYVSRMKEGQTYIYYATGESNERIAKLPQTEMVADQGYEILYFTEDVDEFAIKMLRSYDEKEFMSVSSADLDIETDEKQEEETNSEENKKLFEKMKSILDGKVKDVRTSKRLKSHPVFLAADGEITLEMEKVLQAMPDNQNVKAEKVLEINPNHDVFHSLKQAYEEDEDKLKLYTNLLYNQALLIEGLPLEDPVEFSQNMCKVMV |
| 2738 | sp|Q97E05|HTPG\_CLOAB | MAVKQFKAESKRLLDLMINSIYTNKEIFLRELISNASDAIDKCYYRSLVDTNITFNKDDFYIRISADKENKTLTITDTGIGMTKDDLENNLGTIAKSGSFAFKSENEAKEGVDIIGQFGVGFYSAFMVADDVTVISRSVDSEEAYKWESKGVEGYTIEKCEKETPGTEIVLKIKENTDDEKYDEFLDEYKLRSLIKKYSDFIKYPIKMMTKKTRPKKDNDKETEEYLEDETLNSMVPIWRKNKNELKQEDYDNFYMDKHFGFEKPLKTIHSNVEGVVSYNTLLFIPASAPYDFYTKEFEKGLELYSNGVMIMQKCGDLLPDYFSFVQGLVDSPDLSLNISRELLQHDRQLKFIAKKIKEKIKSELLSMAKNDRENYVKFFNSFGRQLKYGVYSDFGSNKEVLQDLLMFYSSTEKKLVTLDEYVSRMKEDQKYIYYAAGESNEKIEKLPQTEVVKDKGYEILYFTDDVDEFAIKMLMKYKEKEFKSVSNKDLGFEADEKESKKETEENKDLFDFMKEVLDGKVKEVRASSRLKSHPVCLSNDGELSIEMEKVLKMMPDNNNVKAEKILEINTNHEMFNSIKAAFKDDKDKLKKYASLLYNEALLIEGLPIEDPVQFANDVASLMK |
| 2739 | sp|P02515|HSP22\_DROME | MRSLPMFWRMAEEMARMPRLSSPFHAFFHEPPVWSVALPRNWQQIARWQEQEFAPPATVNKDGYKLTLDVKDYSELKVKVLDESVVLVEGKSEQQEAEQGGYSSRHFLRRFVLPEGYEADKVTSTLSSDGVLTISVPNPPGVQETLKEREVTIEQTGEPAKKSAEEPNDKAASQ |
| 2740 | sp|O82013|HSP21\_SOLPE | MDLRLLGIDNTPLFHTLHHMMEAAGEDSVNAPSKIYVRDAKAMAATPADVKEYPNSYVFVVDMPGLKSGDIKVQVEEDNVLLISGERKREEEKEGAKFIRMERRVGKFMRKFSLPENANTDAISAVCQDGVLTVTVQKLPPPEPKKPKTIEVKVA |
| 2741 | sp|P19036|HSP17\_ARATH | MSLVPSFFGGRRTNVFDPFSLDVWDPFEGFLTPGLTNAPAKDVAAFTNAKVDWRETPEAHVFKADVPGLKKEEVKVEVEDGNILQISGERSSENEEKSDTWHRVERSSGKFMRRFRLPENAKVEEVKASMENGVLSVTVPKVQESKPEVKSVDISG |
| 2742 | sp|Q62ID1|HTPG\_BURMA | MTQQTMSFQAEVKQLLHLMIHSLYSNKEIFLRELVSNASDAADKLRFEALENNALYESDPNLRIRLSFDKAARTITIDDNGIGMSRDEAIANLGTIARSGTKEFFSKLSGDQQKDAALIGQFGVGFYSGFIVADRITVETRRAGLPASEGVRWESAGEGDFQVDTIERAARGTTITLHLREGEDELLSSYRLKSIVQKYSDHVALPILMKKEEWDQEKGEMVEKDEDETINQASALWTRAKSEVTDEQYKQFYQHVAHDHQDPLAWTHNRVEGRSEYTQLLFVPSHAPFDLWNRDYRGGLKLYVKRVFIMDDAEQLLPQYLRFIKGVVDSSDLPLNVSREILQESRDVKAIREGVTKRALSMLEELANAEDDAGKEKYKTFWSAFGQVLKEGVGEDHANRERVAKLLRFASTHGDTDAQDVALADYVARMKPEQTKIYYVTADTWQAAKNSPHLEVFRKKGVEVLLLTDRVDEWMLSFLHEFDGKPLASVARGDLDLGALNDDEKKAQEETGEAMKPVVDKMKETLGEKVKDVRVTFRLTDSPSCLVADDNDMSGYLQRMLKAAGQSAPSFQPILEINPEHPLVKALKADGADFGDWCHLLFDQALLAEGGALEDPASFVKRTNALLLSRAA |
| 2743 | sp|B9MFS2|HSLU\_ACIET | MSSMTPQEIVSELDRHIVGQNGAKRAVAIALRNRWRRQQVDASLRHEITPKNILMIGPTGVGKTEIARRLARLADAPFIKVEATKFTEVGYVGKDVDSIVRDLVEVAVKQTREADMKKVRVRAEDAAEDRILDVLIPPARGASVDTARTGDPAGDSTARQVFRKKLREGQLDDKEIEIDLADARPQFEIMSPAGMEEMTEQLRGMFSQMGQERRRARKLKIAEAMKLLVEEEAAKLVNEEEVKTRALANAEQNGIVFIDEIDKVASRQEAGGADVSRQGVQRDLLPLVEGTTVSTKYGMVKTDHILFIASGAFHLAKPSDLIPELQGRFPIRVELTSLSVQDFEAILTQTHASLVKQYQALLETEGVTLDFTPEGITRLAHIAFEVNERTENIGARRLSTVMERLLDEVSYDATRLSGQTVVVDAGYVNARLQSLSQDEDLSRYIL |
| 2744 | sp|P31539|HS104\_YEAST | MNDQTQFTERALTILTLAQKLASDHQHPQLQPIHILAAFIETPEDGSVPYLQNLIEKGRYDYDLFKKVVNRNLVRIPQQQPAPAEITPSYALGKVLQDAAKIQKQQKDSFIAQDHILFALFNDSSIQQIFKEAQVDIEAIKQQALELRGNTRIDSRGADTNTPLEYLSKYAIDMTEQARQGKLDPVIGREEEIRSTIRVLARRIKSNPCLIGEPGIGKTAIIEGVAQRIIDDDVPTILQGAKLFSLDLAALTAGAKYKGDFEERFKGVLKEIEESKTLIVLFIDEIHMLMGNGKDDAANILKPALSRGQLKVIGATTNNEYRSIVEKDGAFERRFQKIEVAEPSVRQTVAILRGLQPKYEIHHGVRILDSALVTAAQLAKRYLPYRRLPDSALDLVDISCAGVAVARDSKPEELDSKERQLQLIQVEIKALERDEDADSTTKDRLKLARQKEASLQEELEPLRQRYNEEKHGHEELTQAKKKLDELENKALDAERRYDTATAADLRYFAIPDIKKQIEKLEDQVAEEERRAGANSMIQNVVDSDTISETAARLTGIPVKKLSESENEKLIHMERDLSSEVVGQMDAIKAVSNAVRLSRSGLANPRQPASFLFLGLSGSGKTELAKKVAGFLFNDEDMMIRVDCSELSEKYAVSKLLGTTAGYVGYDEGGFLTNQLQYKPYSVLLFDEVEKAHPDVLTVMLQMLDDGRITSGQGKTIDCSNCIVIMTSNLGAEFINSQQGSKIQESTKNLVMGAVRQHFRPEFLNRISSIVIFNKLSRKAIHKIVDIRLKEIEERFEQNDKHYKLNLTQEAKDFLAKYGYSDDMGARPLNRLIQNEILNKLALRILKNEIKDKETVNVVLKKGKSRDENVPEEAEECLEVLPNHEATIGADTLGDDDNEDSMEIDDDLD |
| 2745 | sp|Q0VMA5|HSLU\_ALCBS | MASLTPKDIVSELNRHIVGQDAAKRAVALALRTRWRRMQLPEEMRAEVAPKNILMIGPTGVGKTEIARRLAKLADAPFIKVEATKFTEVGYVGRDVESIIRDLMEVAIKLLRDKEIARVGSQADDAAEERILDALLPPARTDDSSANTDNSTRQIFRKKLREGELDDKEIDVDVASNPAGIDIMAPPGMEEMTSQLQQMFSKMGNNQQRKSQKLKVREAYRLIRDEEAARFVNEDELKVQAIDAVENSGIVFIDEIDKVAKRGEGGGTDVSREGVQRDLLPLIEGSTVSTKYGMVKTDHILFIASGAFHLSRPSDLIPELQGRLPIRVELSPLSPDDFQRILTEPKCSLTEQYKALLETEGLNLEITDDCIRRIAEVAWQVNERTENIGARRLHTVLEKLLEEISFDADSLATQYHDKPLVLDAEAVDRYLGELADDEDLSRYIL |
| 2746 | sp|B7JAR2|HTPG\_ACIF2 | MAASKETMQFQTEINQLLQLMIHSLYSNKEIFLRELISNASDACDKLRFEALADPALLTGDSELKVEVDFDPEAGTITVRDNGIGMNRDEVIANIGTIAKSGTREFFERLSGDQTKDAKLIGQFGVGFYSAFIVADRVSLNTRRAGMEAEHGVRWESDGTGTYTLETLDLPARGTEIVLHLREEERQDLLSAWRLRSIINKYSDHIPLSIRMRKIGEGGKPGDEWETVNKASALWQRSKSEISDDEYKEFYRYVSHDYGDPLTWSHNHVEGRLEYTSLLFIPAKAPFDLWDHNHPHGIKLYVQRVFIMDDAEQLLPRYLRFVRGVIDSSDLPLNVSREILQGNRVIDQMRSGSVKRILGLLEEMAEKEPEKYQTFWNEFGRVLKEGPGEDYSNREQIARLLRFASTHTDTDTQNVSLADYLARMAEGQDKIYYITADSFLAAKNSPQLELLRKKGIEVLLLSDRVDEWLTSHLPEFEGKALTSVAKGALDLGAIETEEERKSQEETEKDAEGLVERIKNALGERVETVRVSHRLTSSPACIVLGERDMALYMQQLLKQAGHEISSTKPVLEINPTHPMLARIEGEKDDTRFAEWSALLLDQAILAEGGQLEDPAGFVARINQLMLALAG |
| 2747 | sp|B7J8H7|HSLU\_ACIF2 | MSEMTPREIVQELDKYIIGQSEAKRAVAIALRNRWRRGQVPPPLHQEITPKNILMIGPTGVGKTEIARRLAQLANAPFIKVEATKFTEVGYVGKDVESIIRDLTETAVDMIRNERQVALRQRAEELAEERILDILIPGPRDSSVPRSDEGTRQKFRKMLREGKLDAQEIEIEVSAPKGGVEIMAPAGMEEMTNQLREMFSNMAPGKTSTRRVTVSEAQRLLTDDEAAKLVNEEEVRALALERVQSGGIVFIDEIDKVAVRSGTQQGSDVSREGVQRDLLPLVEGSNVSTRYGVVKTDHILFIASGAFHLSKPSDLIPELQGRLPIRVELEALSAADLVRILQEPENALVRQYGALLASDGLALHFTQDGVQRIAEIAQQVNERVENIGARRLHTVMERLLEEVAFVAPDGSTTALEVDAAYVDSRLKDLAQDEDLSRYIL |
| 2748 | sp|B1K0G2|HSLU\_BURCC | MSTMTPAEIVSELDKHIIGQAKAKKAVAVALRNRWRRQQVAEPLRQEITPKNILMIGPTGVGKTEIARRLAKLADAPFIKIEATKFTEVGYVGRDVDSIVRDLIEISVKQTREAEMRKVRSKATDQAEDRILDILLPQPRAVGFGGNAEHANDDNNATRQTFRKRLREGQLDDKEVELDLEQPSVGMDIMAPPGMEEMTEQIRSMFSNLGSGKKQRRKVKIKEALKLLTDEEAAKMLNEEEVKTKAVQNVEQNGIVFLDEIDKITSRNNEGSGGEVSRQGVQRDLLPLVEGTTVNTKYGMVKTDHILFIASGAFHLAKPSDLIPELQGRFPIRVELDSLSVEDFEAILDATDASLVKQYQALLATEDVQLEFAADGIRRLAEIAFAVNEKTENIGARRLYTVIEKLLEEVSFSAGNHAGERVTIDAKYVDRALGEVAQDEDLSRYVL |
| 2749 | sp|Q05944|HSP70\_HYDVU | MSKAPAIGIDLGTTYSCVGVFQHGKVEIIANEQGNRTTPSYVAFTDTERLIGDAAKNQVAMNPSNTVFDAKRLIGRKFNDPSVTSDRKHWPFNVIDDGSRPKIQVEFKGETKSFYPEEISSMVLLKMEEIADAYLGKKVTDVVITVPAYFNDSQRQATKDAGVIAGLNVLRIINEPTAAAIAYGLDKKVGTEKNVLIFDLGGGTFDVSILAIEDGIFEIKSTAGDTHLGGEDFDNRLVNHFVDEFKRKHKKDISSNKRALRRLRTACERAKRTLSASTQASVEIDSLFDGIDFYTSITRARFEELCIDLFRGTLGPVADAIRGAGKNSSGQNFSKSDIHEVVLVGGSTRIPKVQSLLQEFFNGKELNKSINPDEAVAYGAAVQAAILAGDKHEAVQDLLLLDVAPLSLGIETAGGVFTPLIKRNTTVPTKYSQVFTTYSDNQPGVLIQVFEGERSMTAHNNLLGKFELSGIPLAPRGVPQIEVTFDVDANGILNVSALDKSTGKENKITITNDKGRLSKEDIERMVQEAEKYKADDELQRDKVQAKNSLESYCYNMKQTVEDEKVKGKISEEDKKTIIKKCNETVEWVDKNQTAEKDQYEHKQKELEKVCNPIITKLYQAGGGMPGGMPGGMPGGMPGSGSKASSGGPTIEEVD |
| 2750 | sp|Q38806|HSP22\_ARATH | MMKHLLSIFFIGALLLGNIKTSEGSLSSALETTPGSLLSDLWLDRFPDPFKILERIPLGLERDTSVALSPARVDWKETAEGHEIMLDIPGLKKDEVKIEVEENGVLRVSGERKREEEKKGDQWHRVERSYGKFWRQFKLPDNVDMESVKAKLENGVLTINLTKLSPEKVKGPRVVNIAAEEDQTAKISSSESKEL |
| 2751 | sp|C1DHS0|HSLU\_AZOVD | MSMTPREIVHELNRHIVGQEDAKRAVAIALRNRWRRMQLPAELRAEVTPKNILMIGPTGVGKTEIARRLARLANAPFIKVEATKFTEVGYVGRDVESIIRDLADAAVKMMREQEIQRVRHRAEDAAEDRILDALLPPARQGFGDEPIAREDSNTRQLFRKRLREGQLDDKEIDIEITETPSGVEIMAPPGMEEMTSQLQNLFSSMGKGRKKTHKLKVKDALKLVRDEEAARLVNEEELKARALESVEQNGIVFIDEIDKVAKRANVGGADVSREGVQRDLLPLIEGCTVNTKLGMVKTDHILFIASGAFHLAKPSDLVPELQGRLPIRVELKALTPEDFERILTEPHASLTEQYRELLKTEGLNIQFAADGIKRIAEIAWQVNEKTENIGARRLHTLLERLLEEVSFSAGDLAADHSGQPIVIDAAYVNNHLGELAQDEDLSRYIL |
| 2752 | sp|A8A737|HSLU\_ECOHS | MSEMTPREIVSELDKHIIGQDNAKRSVAIALRNRWRRMQLNEELRHEVTPKNILMIGPTGVGKTEIARRLAKLANAPFIKVEATKFTEVGYVGKEVDSIIRDLTDAAVKMVRVQAIEKNRYRAEELAEERILDVLIPPAKNNWGQTEQQQEPSAARQAFRKKLREGQLDDKEIEIDLAAAPMGVEIMAPPGMEEMTSQLQSMFQNLGGQKQKARKLKIKDAMKLLIEEEAAKLVNPEELKQDAIDAVEQHGIVFIDEIDKICKRGESSGPDVSREGVQRDLLPLVEGCTVSTKHGMVKTDHILFIASGAFQIAKPSDLIPELQGRLPIRVELQALTTSDFERILTEPNASITVQYKALMATEGVNIEFTDSGIKRIAEAAWQVNESTENIGARRLHTVLERLMEEISYDASDLSGQNITIDADYVSKHLDALVADEDLSRFIL |
| 2753 | sp|P15991|HSPB1\_CRILO | MTERRVPFSLLRSPSWEPFRDWYPAHSRLFDQAFGVPRLPDEWSQWFSAAGWPGYVRPLPAATAEGPAAVALAAPLAAPAFHRALNRQLSSGVSEIRQTADRWRVSLDVNHFAPEELTVKTKEGVVEITGKHEERQDEHGYISRCFTRKYTLPPGVDPTLVSSSLSPEGTLTVEAPLPKTATQSAEITIPVTFEARAQIGGQEAGKSEQSGAK |
| 2754 | sp|Q0I2A3|HTPG\_HAES1 | MSTNQETRGFQSEVKQLLQLMIHSLYSNKEIFLRELISNASDAADKLRFKALSAPELYEGDGDLKVRISFDAEKGTLTISDNGIGMTREQVIDHLGTIAKSGTKEFLAALGQEQAKDSQLIGQFGVGFYSAFIVADKVTVKTRAAGEPIDKAVLWESAGEGEYSVADIEKKERGTEITLHLREEEKEFANEWRVREIIGKYSDHIGLPVEILAKEYDEEGKETGIKWEKINKAQALWTRSKGEISDEEYKEFYKHLSHDFADPLLWTHNKVEGNQEYTSLLYVPSKAPWDLFNREHKHGLKLYVQRVFIMDDAEQFMPNYLRFMRGLIDSNDLPLNVSREILQDNKVTAALRKALTKRSLQMLEKLAKDDEEKYLQFWKEFGLVLKEGPSEDFANKENIAKLLRFASSKNDSSEQTVSLEDYVARMKEGQKAIYYITADSYIAAKNSPHLELFNKKDIEVLLLSDRIDEWMLSYLTEFDGKQLQPITKADLDLGDLADKEQEEQKEQDKTFSSFIERVKTLLGERVKDVRLTHRLTDTPAVVSTDNDQMTTQMAKLFAAAGQPVPEVKYTFELNPEHHLVKKVADLADEDEFANWIELLLEQAMLAERGSLENPTAFIKRVNSLLS |
| 2755 | sp|Q7NYF6|HTPG\_CHRVO | MSAQKETLGFQTEVKQLLKLMIHSLYSNKEIFLRELISNASDAADKLRFEGLAKPELFENDPELKIRIAFDKDARTITIADNGIGMSRDEVVSHIGTIAKSGTKSFFEQLSGDEKKDAHLIGQFGVGFYSAFIVADKVTLTTRRAGEAEAVRWESHGEGEYTLESVEKAERGTEIVLHLKEGEDELLNDWKLKGIIRKYSDHISIPIEMKKGNSYGENGEVIVSDEMEAVNSASALWTRSKNDISEEQYQEFYKHVAHDFTAPLAWSHARVEGRQEYTELLYIPSRAPFDLYDRERKQGVKLYVRRVFIMEDTEKLMPHYLRFVRGVIDSNDLPLNVSREILQESKDIDAIRAGCVKKVLGLLEDLSANQPEKYAEFWKEFGQVLKEGVGEDFANKERIAKLLRFVSTASEDAEPTVSLADYIGRMKEGQDKIYYITADTLAAAKNSPHLEVFKKKGVEVLLLTDRVDEWVTGSLFEFDGKALQSVAKGALDLGALEDEADKEAQKQVEEASKPVVEKVQKALGDKVKEVRATARLVESPACLVAGEHDMSAHLERMLKAAGQKIEGSKPTLEINPEHVLVKRLAEESDEARAGDLAAVLYDQALLAEGGKLEDPASFVKRINKLMLELSV |
| 2756 | sp|Q47W03|HSLU\_COLP3 | MSNMTPREIVHELDSHIVGQSDAKRAVAIALRNRWRRMQLDKDLRNEVTPKNILMIGPTGVGKTEIARRLAKLAHAPFIKVEATKFTEVGYVGKEVETIIRDLADMAIKMVKESEMDRVKHLAEEAAEERILDVLLPPARDGFGNDEKSDDSNTRQIFRKKLREGKLDDKEIELDLAAPQVGVEIMAPPGMEDMTSQLQNMFQNMSSEKTNKRKLKIKDALKALQEEEAAKIVNQDDIKQKAIDAVEQNGIVFIDEIDKICKRADSSGGGDVSREGVQRDLLPLVEGSTVSTKHGMIKTDHILFIASGAFQMTKPSDLIPELQGRLPIRVELQALTADDFVRILTEPFASLTEQYIALLATEGVSVTFTDDGIKAIADSAWQVNETTENIGARRLHTMMERLVEDLSFNADQRSGETISIDQAYVTKILSEVVKDEDLSRFIL |
| 2757 | sp|Q0IIM3|HS105\_BOVIN | MSVVGLDVGSQSCYIAVARAGGIETIANEFSDRCTPSVISFGSKNRTIGVAAKSQQITHANNTVSNFKRFHGRAFNDPFIQKEKENLSYDLVPMKNGGVGIKVMYMDEEHLFSVEQITAMLLTKLKETAENNLKKPVTDCVISVPSFFTDAERRSVLDAAQIVGLNCLRLMNDMTAVALNYGIYKQDLPSLDEKPRIVVFVDMGHSAFQVSACAFNKGKLKVLGTAFDPFLGGKNFDAKLVEYFCAEFKTKYKLDAKSKIRALLRLYQECEKLKKLMSSNSTDLPLNIECFMNDKDVSGKMNRAQFEELCADLLQKIEVPLYLLMEQTQLKVEDVSAVEIVGGTTRIPAVKEKIAKFFGKDVSTTLNADEAVARGCALQCAILSPAFKVREFSVTDAVPFPISLVWSHDSEDAEGVHEVFSRNHAAPFSKVLTFLRSGPFELEAFYSDPQGVPYPEAKIGRFIVQNVSAQKDGEKSRVKVKVRVNTHGIFTISTASMVEKIPAEENEVSSLEADMDCQNQRPPENPDAEKNIQQDNNEAGTQPQVQTDGHQTSQSPPSPELTSEENKIPDADKANEKKVDQPPEAKKPKIKVVNVELPIEANLVWQLGKDLLNMYIETEGKMIMQDKLEKERNDAKNAVEEYVYEFRDKLCGPYEKFICEQDHQKFLRLLTETENWLYEEGEDQAKQAYVDKLEELMKIGTPIKVRFQEAEERPKIFEELGQRLQHYAKIAADFRNNDEKYNHIDESEMKKVEKSVNEMMEWMNNVMSAQAKKSLDQDPVVCAQEIRAKIKELNNNCEPVVTQPKPKIESPKLERTPNGPSTDKKEEDLDGKNNFSAEPPHQNGECYPNEKSSINMDLD |
| 2758 | sp|Q57AH9|HSLU\_BRUAB | MSNFSPREIVSELDRFIIGQKDAKRAVAIALRNRWRRQQLEGQMREEVMPKNILMIGPTGVGKTEISRRLAKLAGAPFVKVEATKFTEVGYVGRDVEQIIRDLVEIAITLVREKRREDVKAKAHLNAEERVLDALVGKTASPATRDSFRKKLRNGEMDDKEIEIEVSDSGASPNFEIPGMPGANIGVLNISDMLGKAMGGRTKTRKTTVKDSYPILINDESDKLLDQDQIVQEALRVSEDEGIVFIDEIDKIAAREGGSGAGVSREGVQRDLLPLVEGTTVATKYGPVKTDHILFITSGAFHVSKPSDLLPELQGRLPIRVELSALTREDFRRILTETEASLIKQYIALMETEEVKLEFSDDAIDALADIAVDLNATVENIGARRLQTVIEKVLDEISFTAPDKAGATFIIDAAYVKEKIGGLAKNTDLSRFIL |
| 2759 | sp|Q2SKD0|HTPG\_HAHCH | MTTATEKQTLGFQAEVKQLLHLMIHSLYSNKEIFLRELVSNASDALDKLRFQALSKEDLYEGDNDLKVRLEFDDKAQTITLSDNGIGMSRDEVVTNLGTIAKSGTAEFLSTLTGDQKQDSRLIGQFGVGFYSAFIVADKVEVYTRRAGLKPDEAVHWESSGEGDFSIETVTKEERGTRIVLHLKDEEKEFANGWRLRSLVKKYSDHISFPVEMIKENMDVGEEEEGKEKAEPAPEFESVNEATALWTLPRNEIKDEDYKEFYKHIAHDFSDPLLWAHNRVEGKLDYTSLLYVPAKAPYDLWNREAPRGLKLYIQRVFIMDDAEQFLPLYLRFVKGVVDSNDLSLNVSREILQNDKAVESMRSALTKRVLDMLSKLAADDAEKYQSFWDEFGRVLKEGPAEDFINREKIAKLMRFSSTHQDDDKQTQSLEDYVSRMKQGQDKIYYITAESYSAGVKSPHLEIFRKKGIEVLVMHDRIDEWLMSHLNEFDGKHFQDIAKGELDLGEVEDKEEKEKQEEVSKEAEPLLNRLKEVLKDHVEEVRVTHRLTDSPACLVVGAYDMGVQMRRIMEAAGQALPESKPTFEINPDHPLVKKLGEEQGARFEDLTWVLFDQARLAGGENLKDPAGYVSRLNKLLLELSNAG |
| 2760 | sp|Q65RV7|HTPG\_MANSM | MSNKETCGFQTEVKQLLQLMIHSLYSNKEIFLRELISNASDAADKLRFKALSAPELYEGDGDLKVRISFDDKKGTLTVSDNGIGMTREQAVDHLGTIAKSGTKEFLSALGNDQAKDSQLIGQFGVGFYSAFIVADKVEVRSRAAGVAADKGVLWASAGEGEYSVENIEKKDRGTEITLFLREDEKEFLNEWRLREIIGKYSDHIGLPVEILTKEYDEEGKESGVKWEKINKAQALWTRSKAEISDDEYKEFYKHISHDFADPLSWMHNKVEGNQEYTSLLYVPGKAPWDLFNREQKHGLKLYVQRVFIMDDAEVFMPNYLRFMRGLLDSNDLPLNVSREILQDNKTTAALRKALTKRSLQMLEKLAKDEPEKYAVFWKEFGLVLKEGVAEDFANKEQIAKLYRFASTHTDSSEQNVSFEDYISRMKEGQKAVYYITADSYVAAKNSPHLELFNKKGIEVLLLSDRIDEWMLSYLTEFDGKPLQSVTKADLDLGDLADKEEENQKEQDEKFDSFIQRVKSLLGERVKDVRITHRLTDTPAVVSTDNDQMTTQMAKLFAMSGQPVPEVKYTFEINPQHELVKKAAKVTDETEFGDWIELLLNQAMLAERGSLENPVAFIKLVNALLAK |
| 2761 | sp|P27894|HSP70\_LEIBR | KSQIFSTYADNQPGVHIQVFEGERAMTKDCHLLGTFDLSAIPPAPRGVPQIEVTFDLDANGILNVSAEEKGTGKRNHITITNDKGRLSKDEIERMVNDASKYEQADKMQRDALEAKNGLENYAYSMKNTVSDTNVSGKLEESDRSALNLAIDTALEWLNSNQEASKEEYEHRQKELESTCNPIMTKMYQSMGGGAGGMPGGMPDMSGMGGGQGPAAGASSGPKVEEVD |
| 2762 | sp|Q8D228|HTPG\_WIGBR | MQKKETLEFQSEVKQLLNLMIHSLYSNKEIFLRELISNASDALDKLRFLSISDEKIKIKQNKLCIFIDYDKNKKSITIQDNGIGMSKKEVIENLGTIAKSGTKSFIKSIEKSNSEKNNQLIGKFGVGFYSVFIVSEKVLVLTRSFKENEKNGVLWESSGKGEYTISNIIKKDVGTEITIFLKESEKEFCDELNIKNIVLKYSNHINFPIKLKTKITKDNKILTPEEKKSYTWKQINTGKSLWSKKKSEIKDIEYKEFYKNFFNDNYDPLIWSHNHVEGKQEYVSLLYIPRKASWDIWNREHKHGLKLYVKKVFIMDQSSEFIPNYLRFIKGIIDSNDLPLNVSREILQNNENIYKIKINLTKKALLMLENLSKNHPDEYKLFWKEFGLILKEGPSEDIKNYENVIKLFRFSSTYINSENQEVSLEDYVKRMQSGQNKIFYITSDNYLSAKNNPHLEKLKEKKIEVLLLFDRIDEWMMNYMTEFKKIKFQSISKYSSYLENIFKDENNDQKNTEQKLSTIILRIKSYLKDRVKDVRFTSKLTNSPSTVTTDENDITTQMSKLLISTGQESPEIKYIFELNANHPIIKHVFNIEDKNIFNNWIELLFEESILSERGNLDDPNKFIHRINNLLLSNIIRLN |
| 2763 | sp|A1S564|HTPG\_SHEAM | MSHQETHGFQTEVKQLLHLMIHSLYSNKEIFLRELVSNAADAADKLRYLALTNDSLYEGDGELRVRVSADKDKGTVTIEDNGIGMTRDGVIEHLGTIAKSGTAEFFKNLSGDSAKDSQLIGQFGVGFYSAFIVAKRVEVFTRAAGHSADEGVKWESEGEGNFSVETITKAERGTKIVLHLRDEEKEFADDWRLRSIITKYSDHISIPVEMYQEGTPERDGPDGEKIPATEGQWKAMNKATALWTRSKSDVSDEEYKEFYKHISHDFADPLDWSHNKVEGNQEYTSLLYIPAKAPWDLWNRDRKHGLKLFVQRVFIMDDAEQFMPSYLRFVQGLIDSNDLPLNVSREILQDNKVTRNLRQALTKRVLSMLEKLAKDDADKYQQFWAEFGTVLKEGPAEDFANRERIAGLLRFASTHTGDATPSVSLDDYIGRMKEGQEKIYYIVADSHEAAANSPHLELLKKKGIEVLLLSERIDEWLINHLHDYKEKALHSVTRGDLDLGALEDEAEKAAQEKLAQESEPLVERFKSALGDKVSDVKITTRLTDTPACVVTGEGEMSSQMIKLMQAAGQPVPESKPTLELNPTHPLVARLDKEQDETAFAEWAEMLLAQATLSERGSLADPSAFIKLVNQMLLKSVG |
| 2764 | sp|P41826|HSP72\_ANOAL | MPSAIGIDLGTTYSCVGVFQHGKVEIIANDQGNRTTPSYVAFSDTERLIGDAAKNQVAMNPTNTVFDAKRLIGRKFDDPKIQADMKHWPFTVVNDCGKPKIRVEFKGERKTFAPEEISSMVLTKMKETAEAYLGQSVKNAVITVPAYFNDSQRQATKDAGAIAGLNVMRIINEPTAAALAYGLDKNLKGERNVLIFDLGGGTFDVSILTIDEGSLFEVRATAGDTHLGGEDFDNRMVAHFVEEFKRKFKKDLSKNARALRRLRTACERAKRTLSSSTEATIEIDALMDGIDYYTKISRARFEELCSDLFRSTLQPVEKALSDAKMDKSSIHDIVLVGGSTRIPKVQSLLQNFFAGKSLNLSINPDEAVAYGAAVQAAILSGDKDDKIQDVLLVDVAPLSLGIETAGGVMTKLIERNSRIPCKQTKIFSTYADNQPGVSIQVFEGERAMTKDNNLLGQFDLSGIPPAPRGVPQIEVTFDLDANGILNVAAKDKSSGKEKNITIKNDKGRLSQADIDRMVSEAEKYREEDEKQREAIAARNQLEAYCFNLKQSLDGEGSSKLSDADRRTVQDRCDETLRWIDGNTMAEKEEYEHQMQELSRVCSPIMTKLHQQAAGGPQPTSCGQQAGGFGGRTGPTVEEVD |
| 2765 | sp|C0RFW7|HSLU\_BRUMB | MSNFSPREIVSELDRFIIGQKDAKRAVAIALRNRWRRQQLEGQMREEVMPKNILMIGPTGVGKTEISRRLAKLAGAPFVKVEATKFTEVGYVGRDVEQIIRDLVEIAIALVREKRREDVKAKAHLNAEERVLDALVGKTASPVTRDSFRKKLRNGEMDDKEIEIEVSDSGASPNFEIPGMPGANIGVLNISDMLGKAMGGRTKTRKTTVKDSYPILINDESDKLLDQDQIVQEALRVSEDEGIVFIDEIDKIAAREGGSGAGVSREGVQRDLLPLVEGTTVATKYGPVKTDHILFITSGAFHVSKPSDLLPELQGRLPIRVELSALTREDFRRILTETEASLIKQYIALMETEEVKLEFSDDAIDALADIAVDLNATVENIGARRLQTVMEKVLDEISFTAPDKAGATFIIDAAYVKEKIGGLAKNTDLSRFIL |
| 2766 | sp|B7LUS3|HSLU\_ESCF3 | MSEMTPREIVSELDKHIIGQDNAKRSVAIALRNRWRRMQLNEELRHEVTPKNILMIGPTGVGKTEIARRLAKLANAPFIKVEATKFTEVGYVGKEVDSIIRDLTDAAVKMVRVQAIEKNRYRAEELAEERILDVLIPPAKNNWGQTEQQQEPSAARQAFRKKLREGQLDDKEIEIDLAAAPMGVEIMAPPGMEEMTSQLQSMFQNLGGQKQKARKLKIKDAMKLLIEEEAAKLVNPEELKQDAIDAVEQHGIVFIDEIDKICKRGESSGPDVSREGVQRDLLPLVEGCTVSTKHGMVKTDHILFIASGAFQIAKPSDLIPELQGRLPIRVELQALTTSDFERILTEPNASITVQYKALMATEGVNIEFTESGIKRIAEAAWQVNESTENIGARRLHTVLERLMEEISYDASDLSGQSITIDADYVSKHLDALVADEDLSRFIL |
| 2767 | sp|O97125|HSP68\_DROME | MPAIGIDLGTTYSCVGVFQYGKVEIIANDQGNRTTPSYVAFTDSERLIGDAAKNQVAMNPKNSVFDAKRLIGRRFDDSKIQEDIKHWPFKVINDNGKPKISVEFKGANKCFSPEEISSMVLTKMKETAEAYLGTTVKDAVITVPAYFNDSQRQATKDAGAIAGINVLRIINEPTAAALAYGLDKNLKGERNVLIFDLGGGTFDVSILTIDEGSLFEVRSTAGDTHLGGEDFDNRLVNHFAEEFKRKYKKDLRSNPRALRRLRTAAERAKRTLSSSTEASLEIDALYEGHDFYSKVSRARFEELCGDLFRNTLEPVEKALKDAKMDKSQIHDIVLVGGSTRIPKVQNLLQNFFGGKTLNLSINPDEAVAYGAAIQAAILSGDKSSEIKDVLLVDVAPLSLGIETAGGVMTKLIERNSRIPCKQSKTFTTYADNQPAVTIQVFEGERALTKDNNVLGTFDLTGVPPAPRGVPKIDVTFDLDANGILNVTAKEQGTGNAKNITIKNDKGRLSQADIDRMLSEAEKYAEEDERHRQRIAARNQLETYLFGVKEAAENGGDRISAADKSSIVERCSEAMKWLDSNTTAEKEEYEYKLKELEQFCSPIMTKMHKGGGDGQQAPNFGQQAGGYKGPTVEEVD |
| 2768 | sp|P27777|HS16A\_ORYSJ | MSLVRRSNVFDPFSLDLWDPFDSVFRSVVPATSDNDTAAFANARIDWKETPESHVFKADLPGVKKEEVKVEVEEGNVLVISGQRSKEKEDKNDKWHRVERSSGQFMRRFRLPENAKVDQVKAGLENGVLTVTVPKAEVKKPEVKAIEISG |
| 2769 | sp|Q28222|HSP71\_CHLAE | MAKAAAIGIDLGTTYSCVGVFQHGKVEIIANDQGNRTTPSYVAFTDTERLIGDAAKNQVALNPQNTVFDAKRLIGRKFGDPVVQSDMKHWPFQVINDGDKPKVQVSYKGETKAFYPEEISSMVLTKMKEIAEADLGYPVTNAVITVPAYFNDSQRQATKDAGVIAGLNVLRIINEPTRTIAYALDRTGKGERNVLIFDLGGGTFDVSILTIDDGIFEVKATAGDTTWVEDFDNRLVNHFVEEFKRKHKKDISQNKRAVRRLRTACERAKRTLSSSTQASLEIDSLFEGIDFYTSITRARFEELCSDLFRSTLEPVEKALRDAKLDKAQIHDLVLVGGSTRIPKVQKLLQDFFNGRDLNKSINPDEAVAYGAAVQAAILMGDKSENVQDLLLLDVAPLSLGLETPGGVMTALIKRNSTIPTKQTQIFTTYSDNQPGVLIQVYEGERAMTKDNNLLGRFELSGIPPAPGVPQIEVTFEIDANGILNVTATDKSTGKANKITITNDKGRLSKEEIERMVQEAEKYKAEDEVQRERVSAKNALESYALNMKSAVEDEGLKGKISEADKKKVLDKCQEVISWLDANTLAEKDEFEHKRKELEQVCNPIISGLYQGGGGPGPGGFGAQGPKGGSGSGPTIEEVD |
| 2770 | sp|O60008|HSP60\_PARBA | MQRAFTSSRASVLSSASSTRAPLSRFRSAGVGLQQQRFAHKELKFGVEARASLLKGIDTLAKAVTTTLGPKGRNVLIESPYGSPKITKDGVTVAKAVTLQDKFENLGARLLQDVASKTNEVAGDGTTTATVLARAIFSETVKNVAAGCNPMDLRRGIQSAVEAVVEYLQTNKRDITTTEEIAQVATISANGDTHVGKLISNAMEKVGKEGVITVKDGKTIDDELEVTEGMRFDRGYVSPYFITDTKAQKVEFEKPLILLSEKKISAVQDIIPALEASTSLRRPLVIIAEDIEGEALAVCILNKLRGQLQVAAVKAPGFGDNRKSILGDIGILTNATVFTDELDLKLEKATPDMLGSTGSITITKEDTIILNGEGSKDAIAQRCEQIRSVISDPATSDYEKEKLQERLAKLSGGVAVIKVGGASEIEVGEKKDRVVDALNATRAAVEEGILPGGGTALLKAAANGLTSLNPTNFDQKLGISIIKNAITRPARTIVENSGLEGSVIVGKLTDDFAGDFNRGFDSARGEYVDMIGAGIVDPLKVVRTALVDASGVASLLGTTEVAIVEAPEEKVPAGSGAGGMGGGMGGMGGGMF |
| 2771 | sp|Q5GZV7|HTPG\_XANOR | MTVDTDKQTLGFQTEVKQLLQLMIHSLYSNKEIFLRELVSNAADAADKLRFEALVKPELLEGSGELRIRVDYDKDARTVTIDDNGIGMSREDAVSHLGTIAKSGTADFLKHLSGDQKKDANLIGQFGVGFYSAFIVADQVDVYSRRAGLPAREGVHWSSRGEGEFEVASVDKPERGTRIVLHLKDGEDTFADGWTLRGILKKYSDHIGLPIEMRKEHYGEAADKPAEPEWEAVNRASALWTRPKSEIKDEEYQEFYKHIAHDAGNPLAWSHNKVEGKLEYTSLLFVPGRAPFDLYHRDSAKGLKLYVQRVFIMDQAEQFLPLYLRFIKGVVDSSDLSLNVSREILQSGPVVDSMKSALTKRSLDMLEKLAKDKPDDYATFWRNFGQALKEGPAEDYANREKIAGLMRFSSTHDTTGAQSVGLADYVSRLAEGQDKLYYLTGESYAQIKDSPHLEVFRKKGIEVLLLTDRIDEWLMSYLTEFDGKSFVDVARGDLDLGKLDSEEDKKAQEEVAKSKEGLASRIKAALGEDVAEVRVSHRLTDSPAILAIGQGDLGLQMRQLLEASGQAVPESKPVFEFNPTHPLIEKLDAEQDMDRFCDLSQVLFDQAALAAGDSLKDPAGYVKRLNKLLLELSV |
| 2772 | sp|Q17VU7|HTPG\_HELAH | MSNQEYTFQTEINQLLDLMIHSMYSNKEIFLRELISNASDALDKLNYLMLTDEKLKGLKITPSIHLSFDSQKKTLTIKDNGIGMDKNDLIEHLGTIAKSGTKSFLSALSGDKKKDSALIGQFGVGFYSAFMVAGKIVVQTKKVTSEQAYAWVSDGKGKFEINECIKDEQGTEITLFLKDEDANFASRWEIDSIVKKYSEHIPFPIFLTYTDTKMEGEGDHKKEVKEEKCEQINQASALWKMNKSELKDKDYKEFYKSFAHDNSEPLSYIHNKVEGSLEYTTLFYIPSVAPFDMFRVDYKSGVKLYVKRVFITDDDKELLPSYLRFIKGVIDSEDLPLNVSREILQQNKILANIRSASVKKILGEIEKLSKDNENYHKFYEPFGKVLKEGLYGDFENKEKLLELLRFYSKDKEKLISLKEYKENLKENQKSIYYLLGENLDLLKASPILEKYAQKGYDVLLLSDEIDAFVMPSVNEYDKMPFRDASHSESLKELGLEEINDEVKNQFKDLIKAFEENLKDEIKGVELSSHLTSAVALIGDEQNAMMANLMRQMGQNMPESKKTLELNPNHAILQKLLKCEDKEQMSAFIWLLYDGAKLLEKGALKDAKSFNERLNSVLLKAL |
| 2773 | sp|A8M4S6|HTPG\_SALAI | MSGETLEFQAEARQLLQLMVHSIYSNKDVFLRELISNASDALDKLRLASMRDKDLDVDTSDLHIAIEVDQDARTLTVRDNGIGMTRDEVVQVIGTIAKSGTAELLRKLRETTDAETSQELIGQFGVGFYAAFMVADRVVLVTRQAGEADGTHWESSGEGTYTIAPATDVPQGTAVTLHLKPVDSEDNLHDYAAEWTIRQIVKRYSDFIAHPIRMAVERPGSDDSEPTTEVQTLNSMKALWARPRDEVEPAEYHEFYKHVSHDWADPLEVVHMRGEGTFEYEALLFLPTHAPLDLFSPQGRRGVQLYVKRVFIMDDCEALMPGYLRFVKGVVDAHDLSLNISRELLQQDRQIQVVRRRLVKKVLATVKDLKANQPEKYRTFWTEFGAVVKEGLIDDTENRDSLLEILSVASTHDPAEPTDLTGYVNRMKDGQSEIYYATGENRTTIENSPHMEAFRAKGFEVLLLTDPVDEVWVERVGEYDGKTLRSVAKGQVDLDTDEERSAAEAERERQRTEYADLLTWLGSALADQVREVRLSARLTTSPACVVGDAHDVTPTLEKMYRAMGHEVPQVKRILELNPTHPLVSGLRKAREQGATEDSLTETAELLYGMALLAEGGELADPSRFTRILAERLARTL |
| 2774 | sp|Q0ACL3|HSLU\_ALKEH | MSEMTPREIVQELDKYIIGQDAAKRSVAIALRNRWRRMQVDEALQPEITPKNILMIGPTGVGKTEIARRLAKLARAPFIKIEATKFTEVGYVGRDVESIIRDLVDIAIKLVREEAMERVQHQAADAAEDRVLDIMLPRAQSFDQEDPSAGTRQKLRKKLREGALDDREIEVELRASPMGVEIMAPPGMEEMTNQLQQMFQNFGGEKTKRRKMKVKDALEVLKDEEAARLVNDEDLKAEAVERVEQNAIVFLDEIDKVCKRAEQGTGGDVSREGVQRDLLPLVEGSTVSTKHGMVRTDHILFIASGAFHLSKPSDLIPELQGRLPIRVELEALTTDDFVRILSEPSASLVHQYQALIATEGCELEFTEDGIRRVAEVAWEVNSRTENIGARRLHTVMERLLEEISYSAADRGGQQVTVDADYVDQHLGGLVQDEDLSRYIL |
| 2775 | sp|Q3SNS6|HTPG\_NITWN | MTSTIDKNGAAESRVFEADVAKLLQMMVHSVYSDKDVFLRELISNAADACERLRYEAISDPALLTDETRPRISITIDAERRQLAVEDNGIGMGRDELVDALGTIARSGTKAFIEQAEAAESGDGVALIGQFGVGFYSAFMVADQVDVVSRRAGAREAWRWSSDGKGTFTVTPVDESEAPARGTRVTLHLTEDATGYTDRLKIEQMIKEQSGHVPVPIALIEKPGAEPAEIADGAALWTRPRGEISASEYADFYRSVAGQFDEPALTVHFRAEGRQEFTALLFVPQTRPFDLFEPDKKRQLKLYVRRVFITEDADLLPRYLRFVRGVVDSADLPLNISREMIQESPILAAIKKSITGRILSELEKLADKDAQAYGKIWEAFGPMFKEGIYDAADRRDTVLGLSRFRTTAGSLRSLKDYVGALKENQTSIYYLAGQDAARLEASPHLEGFRARGVEVLLLSDPVDSFWVTSGPSFEGKPFKSVTQGAADLAAIPRLDAGTEPSPDVSEGVTEFLAFLKTTLSDLVSDVRSSDRLTDSPVCLVAAESGPDRQLEKILLGVGQLAGASKPVLEVNPNHPLVASLAALGQDDREFKEDAARMLLDDARVLDGDRPSDALEFSRRLIRLVERGLRRSSAGGGD |
| 2776 | sp|Q12PB2|HTPG\_SHEDO | MSQQETHGFQTEVKQLLQLMIHSLYSNKEIFLRELVSNAADAADKLRYLALTDDALYEGDGELRVRVSTDKEKGTVTISDNGIGMTRDSVIEHLGTIAKSGTKEFFNNLSGEANKDSQLIGQFGVGFYSAFIVAKKVTVRTRAAGHPANEGVLWESEGEGSFNVETITKNSRGTEIVLHLRDEEKEFADDWRLRSIITKYSDHISVPVEMFEAGKDAQEGEDGETIAAVEGQWKPMNKATALWTRNKSDISDEEYQEFYKHISHDYTDALKWSHNRVEGKQEYTSLLYIPAKAPWDMWNRDHKHGLKLFVQRVFIMDEAEQFLPNYLRFVRGLLDSNDLPLNVSREILQDNQVTTAMRVGVTKRVLGMLEKLAKDEPGQYQSFWAEFGQVLKEGPAEDFANKERIAGLLRFASTHEGSAATTVSLEDYISRMKEGQDKIYYIVADSHEAAANSPHLELLRKKGIEVLLMSERIDEWLINHLTEFKGKKLHSVTRGDLELGELEDAADKEAKDKITEEAKGLVERMKAALGAKVSEVKVTTRLTDTPACVVAGEGEMSTQMIKLMQAAGQAVPESKPTFEINPNHPLVARLNDEADEQLFADWASLLLQQAQLSEKGSLADPSAFIKLMNQMLLANAK |
| 2777 | sp|P02517|HSP26\_DROME | MSLSTLLSLVDELQEPRSPIYELGLGLHPHSRYVLPLGTQQRRSINGCPCASPICPSSPAGQVLALRREMANRNDIHWPATAHVGKDGFQVCMDVAQFKPSELNVKVVDDSILVEGKHEERQDDHGHIMRHFVRRYKVPDGYKAEQVVSQLSSDGVLTVSIPKPQAVEDKSKERIIQIQQVGPAHLNVKANESEVKGKENGAPNGKDK |
| 2778 | sp|P31673|HS174\_ORYSJ | MSMIRRSNVFDPFSLDLWDPFDGFPFGSGSGSLFPRANSDAAAFAGARIDWKETPEAHVFKADVPGLKKEEVKVEVEDGNVLQISGERIKEQEEKTDKWHRVERSSGKFLRRFRLPENTKPEQIKASMENGVLTVTVPKEEPKKPDVKSIQITG |
| 2779 | sp|Q30ZT5|HSLU\_DESAG | MSVLTPREIVSELDKYIIGQEQAKRMVAVALRNRWRRQQLEPAIRDEVAPKNIIMMGPTGVGKTEIARRLARLSSSPFLKVEATKFTEVGYVGRDVESMIRDLMEISVNLVREEERDSVKTRAEAAAEERLLDLLLPSSPAVNTSFDTPQTPAGGAENTRNKLRTLWREGRLDHREVEMEVEMQSGPQMDVMTMPGMEDIGSQFKDMFSKAFPPKRKRRRMKVGDAYAILLQEESERLIDHEKVIELARERAEQTGIIFLDEIDKIASSQQGGKTADISREGVQRDLLPIVEGSAVNTKYGIIHTDHILFIGAGAFHYSKPSDLIPELQGRFPLRVELTALGSKEFLRILTEPKNALTVQYKALLATEGVQIEYTEDALEAVADFAQEANQETENIGARRLYTIMEKILADLSFEAPDKSGERIVIDREYVRQHLADITANRDLTRYIL |
| 2780 | sp|Q4UKR8|HSPC2\_RICFE | MAFNLPRIRNKSEVSNDLMRRNHLDNIFDDFFNEFYTFPYSSSTEKNLIPRTDISETDSGYSLEVELPGINQKDIDINIDNHILTIKGQKEEKSEEKNKNYHMRERYYGSFQRSISLPANINDDAINARFENGILHITIPKKEQGKTRKIEVKG |
| 2781 | sp|P42929|HSPB1\_CANLF | MTERRVPFSLLRSPSWDPFRDWYPAHSRLFDQAFGLPRLPEEWAQWFGHSGWPGYVRPIPPAVEGPAAAAAAAAPAYSRALSRQLSSGVSEIRQTADRWRVSLDVNHFAPEELTVKTKDGVVEITGKHEERQDEHGYISRRLTPKYTLPPGVDPTLVSSSLSPEGTLTVEAPMPKPATQSAEITIPVTFEARAQIGGPEAGKSEQSGAK |
| 2782 | sp|Q9UJY1|HSPB8\_HUMAN | MADGQMPFSCHYPSRLRRDPFRDSPLSSRLLDDGFGMDPFPDDLTASWPDWALPRLSSAWPGTLRSGMVPRGPTATARFGVPAEGRTPPPFPGEPWKVCVNVHSFKPEELMVKTKDGYVEVSGKHEEKQQEGGIVSKNFTKKIQLPAEVDPVTVFASLSPEGLLIIEAPQVPPYSTFGESSFNNELPQDSQEVTCT |
| 2783 | sp|A0QEJ0|HTPG\_MYCA1 | MNARVEQLEFQAEARQLLDLMVHSVYSNKDSFLRELISNASDALDKLRLEAFRNKDLDVDTSDLHIQIEVDKDARTLTIRDNGIGMTRAEVVDLIGTLAKSGTAELRQQLREAKNAQNEAASEELIGQFGIGFYSSFMVADKVELLTRKAGESEATKWESSGEGTYTIESVENAPQGTSVTLHLKPEDTEDELHDYTSEFKIKSLVKKYSDFIAWPIRMEVERRTPATEEGGEETVTREVETLNSMKALWARPKDEVSEEEYKEFYKHIAHAWDDPLEVIAMKAEGTFEYQALLFIPSHAPFDLFNRDAHTGIQLYVKRVFIMGDCDQLMPEYLRFVKGVVDAQDMSLNVSREILQQDRQIKAIRRRLTKKVLSTIKELQSERPDDYRTFWTQFGRVVKEGLLSDFDNQETLLQLCSFASTHSEEEATTLAQYVERMKEGQTQIFYATGETRQQILKSPHLEAFKAKGYEVLLLTDPVDEVWVGTVTEFDGKPLQSIAKGEVDLSAEGEESQAEREEQQKEFADLLAWLKDTLSDHVKEVRLSNRLTDSPACLITDAFGITPALARLYRASGQDIPVGKRILELNPKHPLVTGLRQAHQDRADDPSVAETAELLYGTALLAEGGALDDPARFAEILADRLARTL |
| 2784 | sp|Q4UJB1|HSPC4\_RICFE | MFNKLMEVLMSFNLPRIRNKSELQHHTNKQSYVDDVFNNFFNEIASFSYPTHYNNKILSPRTDITENESEYHLEVELPGVTQDNIDLKIDSNILTIDGKKEQSTEKKDHNYHMKERYYGSFSRSISLPSNVDEEHVTANFKDGILSIKIPKKEQSKAKKIKIS |
| 2785 | sp|F4JFN3|HS906\_ARATH | MIRLSKRSVSTLLRSGNQSFRIAAAASTSRSSPSATDVKRSDTESRWYSSLTNGQSKNSGSFAQLNMKTNWFMGYRNESSAAASDSSSQAPPPAEKFEYQAEVSRLMDLIVNSLYSNKEVFLRELISNASDALDKLRYLSVTNPELSKDAPDLDIRIYADKENGIITLTDSGIGMTRQELVDCLGTIAQSGTAKFMKALKDSKDAGGDNNLIGQFGVGFYSAFLVADRVIVSTKSPKSDKQYVWEGEANSSSFTIQEDTDPQSLIPRGTRITLHLKQEAKNFADPERIQKLVKNYSQFVSFPIYTWQEKGYTKEVEVEDDPTETKKDDQDDQTEKKKKTKKVVERYWDWELTNETQPIWLRNPKEVTTAEYNEFYRKAFNEYLDPLASSHFTTEGEVEFRSILYVPPVSPSGKDDIVNQKTKNIRLYVKRVFISDDFDGELFPRYLSFVKGVVDSHDLPLNVSREILQESRIVRIMKKRLVRKAFDMILGISLSENREDYEKFWDNFGKHLKLGCIEDRENHKRIAPLLRFFSSQSENDMISLDEYVENMKPEQKAIYFIASDSITSAKNAPFLEKMLEKGLEVLYLVEPIDEVAVQSLKAYKEKDFVDISKEDLDLGDKNEEKEAAVKKEFGQTCDWIKKRLGDKVASVQISNRLSSSPCVLVSGKFGWSANMERLMKAQSTGDTISLDYMKGRRVFEINPDHSIIKNINAAYNSNPNDEDAMRAIDLMYDAALVSSGFTPDNPAELGGKIYEMMDVALSGKWSSPEVQPQQQQMAHSHDAETFEAEVVEPVEVDGKK |
| 2786 | sp|Q9LTX9|HSP7G\_ARATH | MASSAAQIHILGGIGFPTSSSSSSTKNLDNKTNSIPRSVFFGNRTSPFTTPTSAFLRMGRRNNNASRYTVGPVRVVNEKVVGIDLGTTNSAVAAMEGGKPTIVTNAEGQRTTPSVVAYTKSKDRLVGQIAKRQAVVNPENTFFSVKRFIGRRMNEVAEESKQVSYRVIKDENGNVKLDCPAIGKQFAAEEISAQVLRKLVDDASRFLNDKVTKAVITVPAYFNDSQRTATKDAGRIAGLEVLRIINEPTAASLAYGFERKSNETILVFDLGGGTFDVSVLEVGDGVFEVLSTSGDTHLGGDDFDKRVVDWLASTFKKDEGIDLLKDKQALQRLTEAAEKAKIELSSLTQTNMSLPFITATADGPKHIETTLTRGKFEELCSDLLDRVRTPVENSLRDAKLSFKDIDEVILVGGSTRIPAVQDLVRKLTGKEPNVSVNPDEVVALGAAVQAGVLSGDVSDIVLLDVTPLSLGLETLGGVMTKIIPRNTTLPTSKSEVFSTAADGQTSVEINVLQGEREFVRDNKSIGSFRLDGIPPAPRGVPQIEVKFDIDANGILSVSASDKGTGKKQDITITGASTLPKDEVDTMVQEAERFAKEDKEKRDAIDTKNQADSVVYQTEKQLKELGEKIPGPVKEKVEAKLQELKEKIASGSTQEIKDTMAALNQEVMQIGQSLYNQPQPGGADSPPGGEASSSSDTSSSAKGGDNGGDVIDADFTDSN |
| 2787 | sp|O95757|HS74L\_HUMAN | MSVVGIDLGFLNCYIAVARSGGIETIANEYSDRCTPACISLGSRTRAIGNAAKSQIVTNVRNTIHGFKKLHGRSFDDPIVQTERIRLPYELQKMPNGSAGVKVRYLEEERPFAIEQVTGMLLAKLKETSENALKKPVADCVISIPSFFTDAERRSVMAAAQVAGLNCLRLMNETTAVALAYGIYKQDLPPLDEKPRNVVFIDMGHSAYQVLVCAFNKGKLKVLATTFDPYLGGRNFDEALVDYFCDEFKTKYKINVKENSRALLRLYQECEKLKKLMSANASDLPLNIECFMNDLDVSSKMNRAQFEQLCASLLARVEPPLKAVMEQANLQREDISSIEIVGGATRIPAVKEQITKFFLKDISTTLNADEAVARGCALQCAILSPAFKVREFSITDLVPYSITLRWKTSFEDGSGECEVFCKNHPAPFSKVITFHKKEPFELEAFYTNLHEVPYPDARIGSFTIQNVFPQSDGDSSKVKVKVRVNIHGIFSVASASVIEKQNLEGDHSDAPMETETSFKNENKDNMDKMQVDQEEGHQKCHAEHTPEEEIDHTGAKTKSAVSDKQDRLNQTLKKGKVKSIDLPIQSSLCRQLGQDLLNSYIENEGKMIMQDKLEKERNDAKNAVEEYVYDFRDRLGTVYEKFITPEDLSKLSAVLEDTENWLYEDGEDQPKQVYVDKLQELKKYGQPIQMKYMEHEERPKALNDLGKKIQLVMKVIEAYRNKDERYDHLDPTEMEKVEKCISDAMSWLNSKMNAQNKLSLTQDPVVKVSEIVAKSKELDNFCNPIIYKPKPKAEVPEDKPKANSEHNGPMDGQSGTETKSDSTKDSSQHTKSSGEMEVD |
| 2788 | sp|B4ET62|HSPQ\_PROMH | MMIASKFGIGQQVRHKLLGYLGVVVDVDAEYSLDQPNEDDIASNMTLRSAPWYHVVMEDDEGQPVHTYLAEAQITYELSDEHLDNDSMDELSQSIRNQLQAPRLRN |
| 2789 | sp|Q84Q77|HS17A\_ORYSJ | MSLIRRSNVFDPFSLDLWDPFDGFPFGSGGSSSGSIFPSFPRGASSETAAFAGARIDWKETPEAHVFKADVPGLKKEEVKVEVDDGNILQISGERNKEQEEKTDQWHRVERSSGKFLRRFRLPDNAKPEQIKASMENGVLTVTVPKEEAKKPDVKSIQISG |
| 2790 | sp|B8E6E3|HSLU\_SHEB2 | MSEMTPREIVHELDAHIIGQQKAKRSVAVALRNRWRRMQLDVDFRQEVTPKNILMIGPTGVGKTEIARRLAKLANAPFIKVEATKYTEVGYVGKEVEQIIRDLTDIAIKLTREQQMGKCRQRAEENAEERILDALLPKPKNDWESTETDSSSNTRQVFRKKLREGQLDDKEIDIDVAQPQVGVEIMSPPGMEEMTNQLQSLFKNMGQAPAKRRKMKIKEAFKLLIEEEAAKLVNQEDLKEQAIEMVEQHGIVFLDEIDKICKRGETSGPDVSREGVQRDLLPLIEGCTVTTKHGMVKTDHILFIASGAFQMSKPSDLIPELQGRLPIRVELDALSANDFKRILTEPHASLTEQYIALMNTEGVKVEFSESGIDSIAKAAWQVNERTENIGARRLHTVMEKLMEDISYEASEKSGSAFVIDADYVSAHLDNLVQDEDLSRFIL |
| 2791 | sp|P11142|HSP7C\_HUMAN | MSKGPAVGIDLGTTYSCVGVFQHGKVEIIANDQGNRTTPSYVAFTDTERLIGDAAKNQVAMNPTNTVFDAKRLIGRRFDDAVVQSDMKHWPFMVVNDAGRPKVQVEYKGETKSFYPEEVSSMVLTKMKEIAEAYLGKTVTNAVVTVPAYFNDSQRQATKDAGTIAGLNVLRIINEPTAAAIAYGLDKKVGAERNVLIFDLGGGTFDVSILTIEDGIFEVKSTAGDTHLGGEDFDNRMVNHFIAEFKRKHKKDISENKRAVRRLRTACERAKRTLSSSTQASIEIDSLYEGIDFYTSITRARFEELNADLFRGTLDPVEKALRDAKLDKSQIHDIVLVGGSTRIPKIQKLLQDFFNGKELNKSINPDEAVAYGAAVQAAILSGDKSENVQDLLLLDVTPLSLGIETAGGVMTVLIKRNTTIPTKQTQTFTTYSDNQPGVLIQVYEGERAMTKDNNLLGKFELTGIPPAPRGVPQIEVTFDIDANGILNVSAVDKSTGKENKITITNDKGRLSKEDIERMVQEAEKYKAEDEKQRDKVSSKNSLESYAFNMKATVEDEKLQGKINDEDKQKILDKCNEIINWLDKNQTAEKEEFEHQQKELEKVCNPIITKLYQSAGGMPGGMPGGFPGGGAPPSGGASSGPTIEEVD |
| 2792 | sp|C4L9W9|HSLU\_TOLAT | MSEMTPREIVHELDRHIIGQAEAKRAVAIALRNRWRRMQLSNELRQEVAPKNILMIGPTGVGKTEIARRLAKLANAPFIKVEATKFTEVGYVGKEVDTIIRDLTDMALKMMREQEMEKVRFRAHEAAEERVLDVLLPPARSNWGEAEKSETGTHTRQIFRKKLREGELDDKEIEIDVAAPQMGVEIMAPPGMEEMTNQLQGLFQNMSAGNTHKRKLKVKDALKQLVEEEAGRLLNPEELKEKTIHAVENNGIVFIDEFDKICKRGESSGPDVSREGVQRDLLPLIEGCTVNTKHGMVRTDHILFIASGAFQIAKPSDLIPELQGRLPIRVELKNLTVDDFERILTEPNASLTEQYQALMATEQVKIEFTAEGIRSIAEAAWQVNERTENIGARRLHTVLEKLMEDISYDAADNAGQLFSIDAEYVNRYLGALIEDEDLSRFIL |
| 2793 | sp|Q9SIF2|HS905\_ARATH | MAPALSRSLYTSPLTSVPITPVSSRLSHLRSSFLPHGGALRTGVSCSWNLEKRCNRFAVKCDAAVAEKETTEEGSGEKFEYQAEVSRLLDLIVHSLYSHKEVFLRELVSNASDALDKLRFLSVTEPSLLGDGGDLEIRIKPDPDNGTITITDTGIGMTKEELIDCLGTIAQSGTSKFLKALKENKDLGADNGLIGQFGVGFYSAFLVAEKVVVSTKSPKSDKQYVWESVADSSSYLIREETDPDNILRRGTQITLYLREDDKYEFAESTRIKNLVKNYSQFVGFPIYTWQEKSRTIEVEEDEPVKEGEEGEPKKKKTTKTEKYWDWELANETKPLWMRNSKEVEKGEYNEFYKKAFNEFLDPLAHTHFTTEGEVEFRSILYIPGMGPLNNEDVTNPKTKNIRLYVKRVFISDDFDGELFPRYLSFVKGVVDSDDLPLNVSREILQESRIVRIMRKRLIRKTFDMIQEISESENKEDYKKFWENFGRFLKLGCIEDTGNHKRITPLLRFFSSKNEEELTSLDDYIENMGENQKAIYYLATDSLKSAKSAPFLEKLIQKDIEVLYLVEPIDEVAIQNLQTYKEKKFVDISKEDLELGDEDEVKDREAKQEFNLLCDWIKQQLGDKVAKVQVSNRLSSSPCVLVSGKFGWSANMERLMKAQALGDTSSLEFMRGRRILEINPDHPIIKDLNAACKNAPESTEATRVVDLLYDTAIISSGFTPDSPAELGNKIYEMMAMAVGGRWGRVEEEEESSTVNEGDDKSGETEVVEPSEVRAESDPWQD |
| 2794 | sp|A2SLA3|HSLV\_METPP | MDSYHGTTILSVRRGREVALGGDGQVTLGSIVVKASARKVRRLYKEQVLAGFAGATADAFTLFERFEGKLEKHQGNLVRAAIDLTRDWRTDRVLRRLEAMLAVADRDTSLIITGNGDVLEPEHGIVAIGSGGAYAQAAARALLAHTTLGPAEMVKKSLEIAGDLCIYTNQHHTIEVLTDPEPVSQ |
| 2795 | sp|Q4L5V5|HSLV\_STAHJ | MSKTSLHATTIYAVRHNGEAAMAGDGQVTLGEQVIMKQTARKVRRLYEGKVLAGFAGSVADAFTLFEKFETKLQQFSGNLERAAVELAQEWRGDKQLRQLEAMLIVMDKDAILVVSGTGEVIAPDDDLIAIGSGGNYALSAGRALKRHASQLSAKEMAYESLKVASDICVFTNDNIIVETL |
| 2796 | sp|P07900|HS90A\_HUMAN | MPEETQTQDQPMEEEEVETFAFQAEIAQLMSLIINTFYSNKEIFLRELISNSSDALDKIRYESLTDPSKLDSGKELHINLIPNKQDRTLTIVDTGIGMTKADLINNLGTIAKSGTKAFMEALQAGADISMIGQFGVGFYSAYLVAEKVTVITKHNDDEQYAWESSAGGSFTVRTDTGEPMGRGTKVILHLKEDQTEYLEERRIKEIVKKHSQFIGYPITLFVEKERDKEVSDDEAEEKEDKEEEKEKEEKESEDKPEIEDVGSDEEEEKKDGDKKKKKKIKEKYIDQEELNKTKPIWTRNPDDITNEEYGEFYKSLTNDWEDHLAVKHFSVEGQLEFRALLFVPRRAPFDLFENRKKKNNIKLYVRRVFIMDNCEELIPEYLNFIRGVVDSEDLPLNISREMLQQSKILKVIRKNLVKKCLELFTELAEDKENYKKFYEQFSKNIKLGIHEDSQNRKKLSELLRYYTSASGDEMVSLKDYCTRMKENQKHIYYITGETKDQVANSAFVERLRKHGLEVIYMIEPIDEYCVQQLKEFEGKTLVSVTKEGLELPEDEEEKKKQEEKKTKFENLCKIMKDILEKKVEKVVVSNRLVTSPCCIVTSTYGWTANMERIMKAQALRDNSTMGYMAAKKHLEINPDHSIIETLRQKAEADKNDKSVKDLVILLYETALLSSGFSLEDPQTHANRIYRMIKLGLGIDEDDPTADDTSAAVTEEMPPLEGDDDTSRMEEVD |
| 2797 | sp|Q73XZ5|HRCA\_MYCPA | MGSADERRFEVLRAIVADFVATKEPIGSKTLVERHNLGVSSATVRNDMAVLEAEGYITQPHTSSGRVPTEKGYREFVDRLDDVKPLSAAERRAIQNFLESGVDLDDVLRRAVRLLAQLTRQVAIVQYPTLSSSTVRHLEVIALTPARLLMVVITDSGRVDQRIVELGDVIDDHELSRLREMLGQALVGKKLSAASVAVADLAEQLRSPDGLGDAVGRSATVLLESLVEHSEERLLMGGTANLTRNAADFGGSLRSILEALEEQVVVLRLLAAQQEAGKVTVRIGHETAAEQMVGTSMVTTAYGTSDTVYGGMGVLGPTRMDYPGTIASVAAVAMYIGEVLGAR |
| 2798 | sp|B0SHT3|HRCA\_LEPBA | MDLSPRHRSILKALVEEFVSDNKPVGSKTLSEKYDIGLSPATIRSCLAELEDMGFIVARHTSGGRVPTERGYRLYVDSLVTLFELTMREKQRIQEEYLRMQFRLDQVLIATSKVLASLSQSASVVLGPEGSLDTLKHIELIHVNGGEVLMILVMRSGTVLNRNIFFDFHISQETLYQISRYLNDNVKGFDVHEIQSNLIPQMMLKKEGPEGFTLFAPSIARAMGTDSHSVDNLYIDGLKNLYENFKDEEEQLENILHLFDEKQFLKEFFSDYVPMDGVYTIIGKDGNEKLGGVTIITTNYRMGEKRIGSMGIIGPQRMNYNKALPLIEFTSKLVSEMITKLSR |
| 2799 | sp|O06940|HRCA\_STRMU | MITQRQKDILNLIVELFTKTHEPIGSKTLQNSIASSSATIRNDMAALEKLGLLEKAHTSSGRLPSQEGFRYFVEHSLNPDSLDEQDVYQVIKAFDFEAFRLGDLLQRASDVLANLTGYTALILDVEPKKQRLTTFDIVKLSNHDALAVLTLDEASPVTVQFAIPKNFLDSDLMTVAKIARERFLNQTVLDIHYRLRTELPQIIQKYFPRTDNVLDLFDHIFNPIFQEEVFISGKIKTLEFAGLNTYQFLENLQSVALEIRQSLPEDELHRVQVADSKEKSLADLTVISQKFLIPYRGFGILTVIGPVDLDYQRTISLINVISRVLAVKLGDFYRYLNSNHYEVH |
| 2800 | sp|P41154|HSF\_XENLA | MDPHGTCGGSNVPAFLAKLWTLVEDPDTDPLICWSPEGNSFHVFDQGQFAKEVLPKYFKHNNMASFVRQLNMYGFRKVVHIEQGGLVKPERDDTEFQHPYFIRGQEQLLENIKRKVNTMSATKSDEVKVRQDSVGKLISDVQSMKGKQESIDGRLLSMKHENEALWREVASLRQKHTQQQKVVNKLIQFLVSLVQSNRILGVKRKIPLMLNDSSTGHSPPKYSRQYSLEHVPSSTSYPVSGFTDSSAGPIISDVTELPESSPSPSPCPSLEASPSPVILIKTEPLTPSQSPEQSPAPPKLDDTPISPSTFIDSILLETETSVCPGGNKNDEMSESHPPEPCLSVACLDNISLSRQMSEVSRLFPTSCSSVPGRAEPPGLDMAVAELNDHVDNIDFNLDTLQNLLNGQSFSVDTSALMDLFSPSLGIPDLSLPDPDSSLASVSSTPIYTCVV |
| 2801 | sp|Q9Y4L1|HYOU1\_HUMAN | MADKVRRQRPRRRVCWALVAVLLADLLALSDTLAVMSVDLGSESMKVAIVKPGVPMEIVLNKESRRKTPVIVTLKENERFFGDSAASMAIKNPKATLRYFQHLLGKQADNPHVALYQARFPEHELTFDPQRQTVHFQISSQLQFSPEEVLGMVLNYSRSLAEDFAEQPIKDAVITVPVFFNQAERRAVLQAARMAGLKVLQLINDNTATALSYGVFRRKDINTTAQNIMFYDMGSGSTVCTIVTYQMVKTKEAGMQPQLQIRGVGFDRTLGGLEMELRLRERLAGLFNEQRKGQRAKDVRENPRAMAKLLREANRLKTVLSANADHMAQIEGLMDDVDFKAKVTRVEFEELCADLFERVPGPVQQALQSAEMSLDEIEQVILVGGATRVPRVQEVLLKAVGKEELGKNINADEAAAMGAVYQAAALSKAFKVKPFVVRDAVVYPILVEFTREVEEEPGIHSLKHNKRVLFSRMGPYPQRKVITFNRYSHDFNFHINYGDLGFLGPEDLRVFGSQNLTTVKLKGVGDSFKKYPDYESKGIKAHFNLDESGVLSLDRVESVFETLVEDSAEEESTLTKLGNTISSLFGGGTTPDAKENGTDTVQEEEESPAEGSKDEPGEQVELKEEAEAPVEDGSQPPPPEPKGDATPEGEKATEKENGDKSEAQKPSEKAEAGPEGVAPAPEGEKKQKPARKRRMVEEIGVELVVLDLPDLPEDKLAQSVQKLQDLTLRDLEKQEREKAANSLEAFIFETQDKLYQPEYQEVSTEEQREEISGKLSAASTWLEDEGVGATTVMLKEKLAELRKLCQGLFFRVEERKKWPERLSALDNLLNHSSMFLKGARLIPEMDQIFTEVEMTTLEKVINETWAWKNATLAEQAKLPATEKPVLLSKDIEAKMMALDREVQYLLNKAKFTKPRPRPKDKNGTRAEPPLNASASDQGEKVIPPAGQTEDAEPISEPEKVETGSEPGDTEPLELGGPGAEPEQKEQSTGQKRPLKNDEL |
| 2802 | sp|Q7U3Z7|HRCA\_SYNPX | MKPLSARQQQVLQATVHHYVDTMEPVGSRTLVQRFGIPASSATVRSAMGALEKRGLLTQPHTSAGRIPSALGYRCYVDDLLPEPGVAVQHLERELTGLSLRWAALDDLLQQLARRLTDFTGLMSLITRPQQPRAQLEAIRLVQSGDRLLVMLVEDSGRASHLNLRLPPGASDELTAIERWTDQQLEDGSINWRSLPPQLQRSGDVLRSALDHPSMSPETPLVVHGLSRLVAEPEFHSTAELRPLLELIDDQPCAVVSATDQPGVWIGEEHPQKALQACSVVQAPYRCGQEGVGQVALVGPMRMAYATAHAAVQRVARHLDLLLN |
| 2803 | sp|A2RCW4|HRCA\_STRPG | MITQRQNDILNLIVELFTQTHEPVGSKALQRTIDSSSATIRNDMAKLEKLGLLEKAHTSSGRMPSPAGFKYFVEHSLRLDSIDEQDIYHVIKTFDFEAFKLEDMLQKASHILAEMTGYTSVILDVEPARQRLTGFDVVQLSNHDALAVMTLDESKPVTVQFAIPRNFLTRDLIAFKAIVEERLLDSSVIDIHYKLRTEIPQIVQKYFVTTDNVLQLFDYVFSELFLETVFVAGKVNSLTYSDLSTYQFLDNEQQVAISLRQSLKEGEMASVQVADSQEAALADVSVLTHKFLIPYRGFGLLSLIGPIDMDYRRSVSLVNIIGKVLAAKLGDYYRYLNSNHYEVH |
| 2804 | sp|B8ZUS6|HRCA\_MYCLB | MGNADERRFEVLRAIVADFVATKEPIGSRALVERHNLGVSSATIRNDMAVLEAEGYITQPHTSSGRVPTEKGYREFVDRLEDVKPLSAAERRAIQSFLESGVDLDDVLRRAVRLLAQLTCQVAVVQYPTLSTSTVRHLEVIALSPARLLMVVITESGRVDQRIAELGDVIDDYQLSQLREMLSQAMGGKKLSAASAAVADLVGRFRGTGGLANAVGRSANVLLESLVEHTEERLLLGGTANLTRNSADFGGSLRSILEALEEQVVVLRLLAAQQEAGKVTVRIGHETAAEQIMGTSMVSTAYGTSGTVYGGMGVLGPTRMDYPGTIASVAAVALYIGEVLGAR |
| 2805 | sp|B7JN41|HRCA\_BACC0 | MLTERQLLILQTIIDDFIGSAQPVGSRTLAKKDEITYSSATIRNEMADLEELGFIEKTHSSSGRVPSEKGYRFYVDHLLAPQNLPNDEIVQIKDLFAERIFEAEKIAQQSAQILSELTNYTAIVLGPKLSTNKLKNVQIVPLDRQTAVAIIVTDTGHVQSKTITVPESVDLSDLEKMVNILNEKLSGVPMSELHNKIFKEIVTVLRGYVHNYDSAIKMLDGTFQVPLSEKIYFGGKANMLSQPEFHDIHKVRSLLTMIDNEAEFYDILRHKQVGIQVKIGRENSATAMEDCSLISATYSIGEEQLGTIAILGPTRMQYSRVISLLQLFTRQFTDGLKK |
| 2806 | sp|A4JBR5|HRCA\_BURVG | MLDPRARTLLKTLIERYIADGQPVGSRTLSRYSGLELSPATIRNVMSDLEELGLVSSPHTSAGRVPTPRGYRLFVDTMLTVEAPIDAEAVARQVQNTLQAGEPQQRVVAAAASVLSNLSQFAGVVLTPRRSHVFKQIEFMRLSDKRILLIIVTPEGDVQNRMLATPRDYTPSQLTEASNYINAHFAGLSFDEVRRRLRDEIDQLRGDMTTLMHAAVTASTEVPDTEDTVLISGERNLLEVADLSSDMARLRKLFDVFDQKTGLLQLLDVSSHAQGVQIFIGGESTLVPIEEMSVVTAPYEVNGKIVGTLGVIGPTRMAYNRVIPIVDITARLLSLALSQQ |
| 2807 | sp|Q48RR1|HRCA\_STRPM | MITQRQNDILNLIVELFTQTHEPVGSKALQRTIDSSSATIRNDMAKLEKLGLLEKAHTSSGRMPSPAGFKYFVEHSLRLDSIDEQDIYHVIKTFDFEAFKLEDMLQKASHILAEMTGYTSVILDVEPARQRLTGFDVVQLSNHDALAVMTLDESKPVTVQFAIPRNFLTRDLIAFKAIVEERLLDSSVIDIHYKLRTEIPQIVQKYFVTTDNVLQLFDYVFSELFLETVFVAGKVNSLTYSDLSTYQFLDNEQQVAISLRQSLKEGEMASVQVADSQEAALADVSVLTHKFLIPYRGFGLLSLIGPIDMDYRRSVSLVNIIGKVLAAKLGDYYRYLNSNHYEVH |
| 2808 | sp|A5CRA6|HRCA\_CLAM3 | MVSERGLDVLRVIVQDYVSSREPVGSKSIVERHAFGVSAATIRNDMALLEEEELIAAPHTSSGRVPTDKGYRLFVDQLADVRPLTPAQRQAIHVFLGESVDLDDVLARTVRLLAQLTNQVALVQYPSLATSHVKHVELVALSTTRVLTVLITDTGRVEQRVVELAGDPDDAFLAVMRTRINQAVGGLGLAEAATRLETLSDEVEPAQRAAASVLAGTLVEQVLANRQERLLLAGSANLARTERDFPGSISPVLEAIEEQVVLLRLLGEMEADQHGVSVSIGRENAPFGLGETSVLTSGYSSSGGVLARLGVLGPTRMDYSTNMASVRAVARYLSRLLEER |
| 2809 | sp|A7X2Y4|HRCA\_STAA1 | MITDRQLSILNAIVEDYVDFGQPVGSKTLIERHNLNVSPATIRNEMKQLEDLNYIEKTHSSSGRSPSQLGFRYYVNRLLEQTSHQKTNKLRRLNQLLVENQYDVSSALTYFADELSNISQYTTLVVHPNHKQDIINNVHLIRANPNLVIMVIVFSSGHVEHVHLASDIPFSNDKLNTISNFVTNKLTEFNQNLQDDIVSFVQSEQEEIFINKLINTMNNHISNQSNSIYMGGKVKLIDALNESNVSSIQPILQYIESNRIAELLQDISSPNINVKIGNEIDDSLSDISIVTSQYHFDETLKGQIAVIGPTAMHYQNVIQLLNRIW |
| 2810 | sp|Q62HD0|HRCA\_BURMA | MLDPRARTLLKTLIERYIADGQPVGSRTLSRYSGLELSPATIRNVMSDLEELGLVSSPHTSAGRVPTPRGYRLFVDTMLTVESPIDSDAVTRLVQTTLQAGEPQQRVVAAAASVLSNLSQFAGVVLTPRRSHVFKQIEFLRLSDKRILLIIVTPEGDVQNRMIATQRDYAPAQLTEASNYINAHFAGLSFDEVRRRLREEIDQLRGDMTALMHAAVTASTEEPDDEETVLISGERNLLEVADLSSDMARLRKLFDVFDQKTSLLQLLDVSSHAQGVQIFIGGESTLVPIDEMSVVTAPYEVNGKIVGTLGVIGPTRMAYNRVIPIVDITARLLSLTLSQQ |
| 2811 | sp|Q8DKU4|HRCA\_THEEB | MTIELSDRQKQILGATINHYIATAEPVASKAIATEYNLNVSPATVRNTMLLLEKSGLLYQPHTSAGRVPSDSGYRVYVDELIQPIPDIARKAESLLSERFIWRQQRLEVILRQAAQLLSDLSGYITLITLPNALERQIRVIQLVALDSQQVMVILVLDTYETQSALIQLEQGEEDPELRERTLQVLTNFLNHQLQGRSLVELSAIDWQKLDLEFQTYSQQLQALLRQLRDRYSHQGTAFVISGLADLLQQPEFSQVEQVQMLLHLLEDQQDQLAPLITTDSQAPSQVQIRIGSENTLAPMQCCTLVYSCYCYGDSPVGSIGILGPTRMPYARIIPLVATAADYLTEQVSCRR |
| 2812 | sp|Q818E7|HRCA\_BACCR | MLTERQLLILQTIIDDFIGSAQPVGSRTLAKKDEITFSSATIRNEMADLEELGFIEKTHSSSGRVPSEKGYRFYVDHLLAPQNLPNAEIVQIKDLFAERIFEAEKIAQQSAQILSELTNYTAIVLGPKLSTNKLKNVQIVPLDRQTAVAIIVTDTGHVQSKTITVPESVDLSDLEKMVNILNEKLSGVPMEELHNKIFKEIVTVLRGYVHNYDSAIKMLDGTFQVPLSEKIYFGGKANMLSQPEFHDIQKVRSLLTMIDNEAEFYDILRHKQVGIQVKIGRENSSTAMEDCSLISATYSIGEEQLGTIAILGPTRMQYSRVISLLQLFTRQFTDGLKK |
| 2813 | sp|Q3JP05|HRCA\_BURP1 | MLDPRARTLLKTLIERYIADGQPVGSRTLSRYSGLELSPATIRNVMSDLEELGLVSSPHTSAGRVPTPRGYRLFVDTMLTVESPIDSDAVTRLVQTTLQAGEPQQRVVAAAASVLSNLSQFAGVVLTPRRSHVFKQIEFLRLSDKRILLIIVTPEGDVQNRMIATQRDYAPAQLTEASNYINAHFAGLSFDEVRRRLREEIDQLRGDMTALMHAAVTASTEEPDDEETVLISGERNLLEVADLSSDMARLRKLFDVFDQKTSLLQLLDVSSHAQGVQIFIGGESTLVPIDEMSVVTAPYEVNGKIVGTLGVIGPTRMAYNRVIPIVDITARLLSLTLSQQ |
| 2814 | sp|A9WEX3|HRCA\_CHLAA | MSGPLTERRQMILKLVIQEFVDTATPVASETLVRKYRLPVSSATVRNDMAALEELGFLTHPHTSGGRIPTDAGYRFFVENLMERTTLSPAEQRMIRHQFYQVRGELDQWVQLACAVLARTAHNASVATAPRAEQLRFKSLELIAIHETMALAVIVFHGGIVKQQTLPIEPGRTPEDLRRAAGLVSDLLADATLSRAEELAAIATFNGVPLSEFERTLVDLVVRAMSVFEEQAQEQIYSDGILEMLSQPEFLPASGRDDAERAIERLRRTLEILKSGRGLSPLIPQALASGGVQVIIGGEHSEDTMRDYSVILARYGVEGALVGVLGVIGPTRMAYPRSISTVRYIASLMTNLLADLYHVNTRPSDIEPAAEL |
| 2815 | sp|B8G4T8|HRCA\_CHLAD | MSGPLTERRQTILKLVIQEFVDTATPVASETLVRKYRLPVSPATVRNDMAALEELGFLTHPHTSGGRIPTDTGYRFFVENLMERTSLSPAEQRMIRHQFYQVRGELDQWVQLACAVLARTAHNASVATAPRAEQLRFKSLELISIHETMALAVIVFHGGIVKQQTLPVEPWRTPEDLRRAAGLVSDLLADATLTRVEELATAATFNGIPLSDFERGLVDLVVRAMIAFEEQAQEQIYSDGLLEMLSQPEFSPASGRDDAERVIERMRRTLEILKSGRGLGPLIPQALASGGVQVIIGGEHGEDTMRDYSVILARYGVEGVIAGVLGVIGPTRMAYPRSISTVRYIASLMNNLLAELYNVQARPSEGESEYKDEQHA |
| 2816 | sp|P04120|HS30A\_XENLA | MRNNVERRMQRVNEACRLLSKDTEMRRITDQNRQSRESEGTSPNSGKDGKDHFELTLNVRDFSPHELTVKTQGRRVIVTGKHERKSDTE |
| 2817 | sp|C0ME88|HRCA\_STRS7 | MITERQSNILNLIVDLFTQTHEPVGSKALQSLIASSSATIRNDMAKLEKLGLLEKAHTSSGRMPSAAGFKYFVEHSLNLGSIDEQDLYQLVKAFDFEAFKLEDVLLRASQMLSDTTGYTAAILDVEPARQRLTGFDIVQLSSHDALAVLTLDESKPLTVQFAIPKNFMNRDLLVLKGIVADRLLGKDVMTVHYKLRTEIPQIVQKYFTVTDNVLDLFDYIFVGLFRETIFVSGKVAALDYAGLATYQFLDEEQRLALSIRQSLSEEEMATVQVADSSEPALANVTLLTYKFLIPYRGFGLLSLIGPVDMDYRRSVSLINVIGQLLAVKLRDYYRYLNSNHYEVH |
| 2818 | sp|C6DGL0|IBPA\_PECCP | MRNPDFSPLYRSAIGFDRLFNLLETGQTQSNGGYPPYNVELVDENQYRIAIAVAGFAEQELDITAHDNLLIVKGAHAGEQVARNYLYQGIAERNFERKFQLAEHIQVKGANLENGLLYIDLERIVPEAMKPRRIEIK |
| 2819 | sp|Q1C3K9|IBPB\_YERPA | MRNYDLSPLLRQWIGFDKLASTMQGGQEPQGFPPYNIEKTDDNHYRISLALAGFKQSELDIEVEGPRLTVRGKPTPVEKQVEYLHQGLVRKEFSLTFTLAEHLNVDNAQFENGLLHIDLLRQVPEALQPQRIAIGSATPQERQVLESPEAPDQQ |
| 2820 | sp|A7FPA8|IBPA\_YERP3 | MRNSDLAPLYRSAIGFDRLFNLLESGQNQSNGGYPPYNVELVDENNYRIAIAVAGFAEQELEITTQDNLLIVRGSHANEPAQRTYLYQGIAERNFERKFQLAEHIKIKGANLVNGLLYIDLERLVPESLKPRRIEIK |
| 2821 | sp|A8G7R9|IBPB\_SERP5 | MRNYDLSPLLRQWIGFDKLASSMGGQEPQGFPPYNIEKSDDNHYRISLALAGFKQSELDIEVEGPRLTVRGKPTPSEKQVEYLHQGLVCKEFALTFTLAEHLQVSEAQFENGLLHIDLVRQVPEALQPQRIAIGTTPGLEAK |
| 2822 | sp|P75987|IRAM\_ECOLI | MKWIVIDTVIQPTCGISFSAIWGNMKMIIWYQSTIFLPPGSIFTPVKSGIILKDKEYPITIYHIAPFNKDLWSLLKSSQECPPGESKITNKCLHNSCIIKICPYGLK |
| 2823 | sp|A7ZID1|IRAP\_ECO24 | MKNLIAELLFKLAQKEEESKELCAQVEALEIIVTAMLRNMAQNDQQRLIDQVEGALYEVKPDASIPDDDTELLRDYVKKLLKHPRQ |
| 2824 | sp|O75676|KS6A4\_HUMAN | MGDEDDDESCAVELRITEANLTGHEEKVSVENFELLKVLGTGAYGKVFLVRKAGGHDAGKLYAMKVLRKAALVQRAKTQEHTRTERSVLELVRQAPFLVTLHYAFQTDAKLHLILDYVSGGEMFTHLYQRQYFKEAEVRVYGGEIVLALEHLHKLGIIYRDLKLENVLLDSEGHIVLTDFGLSKEFLTEEKERTFSFCGTIEYMAPEIIRSKTGHGKAVDWWSLGILLFELLTGASPFTLEGERNTQAEVSRRILKCSPPFPPRIGPVAQDLLQRLLCKDPKKRLGAGPQGAQEVRNHPFFQGLDWVALAARKIPAPFRPQIRSELDVGNFAEEFTRLEPVYSPPGSPPPGDPRIFQGYSFVAPSILFDHNNAVMTDGLEAPGAGDRPGRAAVARSAMMQDSPFFQQYELDLREPALGQGSFSVCRRCRQRQSGQEFAVKILSRRLEANTQREVAALRLCQSHPNVVNLHEVHHDQLHTYLVLELLRGGELLEHIRKKRHFSESEASQILRSLVSAVSFMHEEAGVVHRDLKPENILYADDTPGAPVKIIDFGFARLRPQSPGVPMQTPCFTLQYAAPELLAQQGYDESCDLWSLGVILYMMLSGQVPFQGASGQGGQSQAAEIMCKIREGRFSLDGEAWQGVSEEAKELVRGLLTVDPAKRLKLEGLRGSSWLQDGSARSSPPLRTPDVLESSGPAVRSGLNATFMAFNRGKREGFFLKSVENAPLAKRRKQKLRSATASRRGSPAPANPGRAPVASKGAPRRANGPLPPS |
| 2825 | sp|A0LEE9|LON1\_SYNFM | MFKLTRNKDEQSGSATFAMPLLPLRDIVVFPSMVVPLFVGRDKSVNALDKAMATDKKIFLAAQTKAKTDTPGESDIYRVGTVANILQILRLPDGTVKVLVEGDFRARISSFIPHPDHFFVSLEGLEESEDESVEIEALRRGVRAAFDAYSKHNKKINQEILDAVAAIDNASRLADTIAAYMPFKLDVKQKLLETLGVAKRLEKLFGQIRSEIEILQTEERIKGRVKKQMEKTQREYYLNEQMRAIQKEMGEKDDFKSELEELEKRIKRKKLSQEAAAKVRAEFKKLKLMSPMSAEATVVRNYIDWILSLPWYEKTRDKLDIDESIRILDEDHYGLEKPKERIIEYLAVQALVKRIKGPILCFVGPPGVGKTSLAKSIARAMNRNFIRLSLGGVRDEAEIRGHRRTYIGAMPGKIIQSLKKVKSNNPVFCLDEVDKMSMDFRGDPSAALLEVLDPEQNFSFNDHYLDLDYDLSEVFFITTANNLHSIPPPLRDRMEIIQIAGYTEFDKLNIGRNFLVAKQCKANGLSLDNIAFSDDMLLYIIRHYTKEAGVRNLEREIASICRKVAKEVVRRGPETRIELTEDLVQEYLGIPKFRYGVAEEKDEIGLAVGLAWTEFGGDILGIETVVMPGKGKVQITGKLGDVMQESAQAALSYVRSRAKRLGIDPDFYQNFDIHVHVPEGAIPKDGPSAGITMATSIVSALARIPVRSDLAMTGEITLRGRVLPIGGLKEKILAAHRALLKTVLIPKDNAKDLKDIPAKILEEIQVELVEHMDDVLRKAMVVPEDRELFHEEEAGAQQAVMFEQKPPAADEIRAH |
| 2826 | sp|P36773|LON1\_MYXXA | MFFGRDDKKEAQKRGLTVPLLPLRDIIVFPHMVVPLFVGREKSIAALKDAMAHKGPDDKAVILLAAQKKAKTNDPTPDDIFHFGTLGHVIQLLPLPDGTVKVLVEGVRRAKVKKFHPNDAFFMVEVEEVEEQTEKTVELEALVRSVHSVFEAFVKLNKRIPPEMLMQVASIDDPARLADTIVAHLSLKLNDKQALLETESPAKRLEKLYELMQGEIEILQVEKKIRTRVKKQMEKTQKEYYLNEQMQAIQKELGERDEFKNEIQEIEEKLKNKRMSKEATLKVKKELKKLRMMSPMSAEATVVRNYIDWIISLPWYDETQDRLDVTEAETVLNEDHYGLKKPKERILEYLAVQQLVKKLKGPVLCFVGPPGVGKTSLARSIARATGRKFVRLSLGGVRDEAEIRGHRRTYIGAMPGKLIQSLKKAGSNNPVFLLDEIDKMSTDFRGDPSAALLEVLDPEQNHTFNDHYLDLDYDLSKVMFICTANTMHNIPGPLQDRMEVIRIAGYTEPEKLSIARRYLIPKEQEANGLSDLKVDISDPALRTIIHRYTRESGVRSLEREIGGVFRKIARDVLKNGKRDIDVDRKMAMKFLGTPRYRYGMAEAEDQVGIVTGLAWTELGGEILTTEATIMPGKGKLIITGKLGEVMQESAQAAMSYVRSRAERFGIDRKVFENYDIHVHLPEGAIPKDGPSAGVTICTALVSALTRVLIRRDVAMTGEITLRGRVLPIGGLKEKTLAAHRAGIKTVLIPKANKKDLKDIPLKIRKQLRIVPVEFVDDVLREALVLEKPEEFGRKPTTDGGKLGGTTELPASPAVAPA |
| 2827 | sp|Q9PK50|LON\_CHLMU | MNSTNNTDSQNLDPNASEVEKLLDESAEAEEKTDDHTPPSELFILPLNKRPFFPGMAAPLLIEAGPHYEVLTLLAKSSQKHIGLVLTKKEDANTLKIGFNQLHRVGVSARILRIMPIEGGSAQVLLSIEDRIRIVKPVQDKYLKAKVAYHKENKELTEELKAYSISIVSIIKDLLKLNPLFKEELQIFLGHSDFTEPGKLADFSVALTTATREELQEVLETTDMHDRIDKALVLLKKELDLSRLQSSINQKIEATITKSQKEFFLKEQLKTIKKELGLEKDDHAVDLEKFMERLNKRDVPQYAMDVIQDEMDKLQTLETSSAEYAVCRNYLDWLTIVPWGIQTKEYHDLKKAESILNKDHYGLEDIKQRILELISVGKLANGMKGSIICLVGPPGVGKTSIGRSIAKVLHRKFFRFSVGGMRDEAEIKGHRRTYIGAMPGKLVQALKQSAIMNPVIMIDEVDKIGSSYHGDPASALLEVLDPEQNKDFLDHYLDVRVDLSNVLFILTANVLDSIPDPLLDRMEVLRLSGYILEEKLQIATKYLVPRARKEMGLSAQNVSFQPEALKHMINNYAREAGVRTLNENIKKVLRKVALKIVQNQEKNPSKKSRFTITPKNLQDYLGKPIFSSDRFYEKTPVGVATGLAWTSLGGATLYIESVQVPSSSGKADMHLTGQAGDVMKESSQIAWTYLHSALERYAPGRPFFEKSQVHIHIPEGATPKDGPSAGITMVTSLLSLLLDVPVLNNLGMTGELTLTGRVLGIGGIREKLIAARRSKLNVLIFPEDNRRDYDELPAYLKKGLKVHFVTHYDDVFKIAFPGV |
| 2828 | sp|Q59185|LON1\_BORBU | MDESKKARSGDKKKEKAVAGILPHSNKPARVPLIAVPSHPVFPGMFIPIVLISDSDMKAIDYAMKGNGIIALFVLNDKFLEKNNNNAQQKLIIDYSKDIYSVGVTGKIIKKINLPDGGYNIFVSTFDRIKFVKVVLNDKFPIIEIDYLKQIPVRKDDIQSKAVYGSILLRTKEIFAHRKMPEVQLNMVNIEDKGKLCDIVASTISSSKNDHQIVLETLNVKDRLKKVLELIYEELNLIEIQNKIAKGIQERLEKQQKEFFLKEQLKAIKAELGIGDKKSSDLEKLKTKLKALELKGEPLEVVEKELEKFSLLETSSAEYIVVRNYLELITELPWRDFKINFDKLDLQKSKKILDKTHYGMNEVKDRIIEYISVLKLRKTQKGAIILLVGPPGVGKTSIGAAIAKVLRTKFFRFSVGGMRDESEIKGHRRTYVGALPGKIIQGLRITKTNSPVFLIDEVDKISASSYGDPFSVLLEVLDPEQNVRFRDHYLDLPFDISNVFFILTANSVETIPRPLLNRMEIIEISGYIDNEKIEIARKYLIPKVLSENGVDKDSLKFQSSSLVQIAQEYARDNGVRNFEKYLNKIVRKVARKLIENTEVKSYQISNDNLEEYVGVPVFRKESMPNAMYSGMVMGLAWTNYGGSTLMIETVKTESKVGGIKLTGRLGDVMKESANIAYTYVNSIKGDLSISKSFFEKNIIHLHIPEGATPKDGPSAGITIASAFISLALNKVVRPHLAMTGELSLTGNVMMIGGLKEKIIAAKRSGVEHIIVPKANRVDLEEIPTNIKSGINFYLVDNMREVIKLLF |
| 2829 | sp|Q6AK61|LON2\_DESPS | MTKIYPLMPLRDIVIFPHMVAPLVVGREKSIRALEDAMEKKTEIFLVTQLEPTCEDPNEGEIYQCGTLSTVMQLLRLPDGTIKALVEGQRRARIVSRVPHEEFMQVEVEECTEVLPGQDELIAYERELRKAFQQFAHLGKKIGEEVVVSCSSIEDPVKLANVICSHLPLSSKEKQEVLEVETLGGRIELLLEILFRELQLAEVERKINIKVKQKLSRAQRDYYLGEKIREMQKEIGQGEDGVDEMTELENIIKAKKMPAYARARVQKELKKLRGMPAMSAETTVVRSYIDTILGLPWKKRSKGQLNVLKAEGILNKDHYGLEKPKERILEFLAVQSQVAKLKGPILCFVGPPGVGKTSICQSIAKSMGREFARLSLGGLRDEAEIRGHRRTYVGAMAGKVLRAMQKVGVANPVFCLDEIDKMSTDFRGDPAAALLEVLDPEQNSSFNDHYLDLDYDLSQVFFITTANSLEGIPIPLQDRMEIIQLSGYTEEDKQVIAEKYLLPKQLKANGFQKDDIFLSPGAMLTVVRHYTREAGVRGLERVLASLCRKVARDRLQKGKKSKKYRIGEKSVPTYLGTPKYRYGLAEERDEVGLATGLAWTQVGGVLLQIEVILMPGKGKLTLTGQLGDVMQESAQAAYSYIRSRAKELKLEPDFYEKVDIHVHVPEGAIPKDGPSAGITIATTLASALTGRPIRHELAMTGEITLRGRVLPIGGLTEKLLAAKRGNITKVLLPEENGRDLKDVPAKIKNALDIKLVSHMDQVLEQALLSKGKNK |
| 2830 | sp|P0CAW0|LON\_CAUVC | MSELRTLPVLPLRDIVVFPHMVVPLFVGRDKSVRALEEVMRGDKQILLVTQKNSADDDPAPGDIFEVGVLATVLQLLKLPDGTVKVLVEGKARAAVVSFTDQESYYEAQIGEVSEDDGAGPEAEALSRAVVEQFENYVKLNKKVPPEALASIPQIAEPGKLADSIAAHLSVKIGDKQNLLEIFDVVKRLEKVFALMEGEISVLQVEKKIRSRVKRQMEKTQREYYLNEQMKAIQRELGDPDDARDELIDLEKRIKKTKLSKEARTKAESELKKLRNMSPMSAESTVVRNYLDWLLSIPWGKAKTKKIDLVESEGILDADHYGLEKVKERILEYLAVQARTNSLKGPILCLVGPPGVGKTSLGKSIAKATGREFVRMSLGGVRDEAEIRGHRRTYIGSMPGKVVQSMKKAKTTNAFVLLDEIDKMGSDYRGDPASALLEVLDPSQNSTFGDHYLEVDYDLSQVMFVTTANSLNMPQPLLDRMEIIRIPGYTEDEKLEIAKRHILPKLAKDHGLKPAEFIVPDKAIRDLIRYYTREAGVRSLERELGALARKTVRDLAREKVASITIDDERLAKYAGVKKYRYGETDEVDQVGIVTGLAWTEFGGDILTIEAVKMPGKGRMQITGNLKDVMKESIAAANSYVRSRALQFGIKPPVFEKTDVHIHVPDGATPKDGPSAGIAMALAMVSVLTGIPIRKDIAMTGEITLRGRVTAIGGLKEKLLAALRSGVKTVLIPQENEKDLADVPQTVKDGLEIIPVSTVDEVLKHALTGPLTPVEWNEAEEPITTSAKKDDGDSDAMLTH |
| 2831 | sp|Q8G0I7|LON\_BRUSU | MTGIEQKTPVGGSETGGADGLYAVLPLRDIVVFPHMIVPLFVGREKSIRALEEVMGVDKQILLATQKNAADDDPAPDAIYEIGTIANVLQLLKLPDGTVKVLVEGTARAKISKFTDREDYHEAYAAALQEPEEDAVEIEALARSVVSDFENYVKLNKKISPEVVGAASQIDDYSKLADTVASHLAIKIPEKQEMLSVLSVRERLEKALSFMEAEISVLQVEKRIRSRVKRQMEKTQREYYLNEQMKAIQKELGDSEDGRDEVAEIEERITKTKLSKEAREKALAELKKLRSMSPMSAEATVVRNYLDWLLSIPWGKKSKVKQDLNFAQEVLDAEHFGLGKVKERIVGYLAVQARSTKIKGPILCLVGPPGVGKTSLARSIAKATGREYVRMSLGGVRDEAEIRGHRRTYIGSMPGKVIQSMKKAKKSNPLFLLDEIDKMGQDFRGDPSSAMLEVLDPEQNATFMDHYLEVEYDLSNVMFVTTANTMNIPGPLLDRMEIIRIAGYTEDEKLEIAKRHLLPKAIKDHALQPKEFSVTEDALRNVIRHYTREAGVRSLEREVMTLARKAVTEILKTKKKSVKITDKNLSDYLGVEKFRFGQIDGEDQVGVVTGLAWTEVGGELLTIEGVMMPGKGRMTVTGNLRDVMKESISAAASYVRSRAIDFGIEPPLFDKRDIHVHVPEGATPKDGPSAGIAMVTAIVSVLTGIPVRKDIAMTGEVTLRGRVLPIGGLKEKLLAALRGGIKKVLIPEENAKDLAEIPDNVKNNLEIVPVSRVGEVLKHTLVRQPEPIEWTEQENPTAVPPVEDEAGASLAH |
| 2832 | sp|P43864|LON\_HAEIN | MAKNTQRTMPVLPLRDVVVFPYMVMPLFVGRAKSINALEEAMNDDKQILLVSQREADLEEPTPEDLFDVGTIANIIQLLKLPDDTVKVLVEGQNRAKINSLEDGEKCFSAQITPIETTYGDEKELVVAKSAVLSEFENYLTLNKKVPTDILNALQRIDDVDRLADTMAAHLPVSIRHKQNALELANVQERLEYLLGMMESEADILQVEKRIRGRVKKQMEKSQRNYYLNEQIKAIRKEMDGGENEDTIDEVEQLHQKVEAAGMPADVRDKVENELQKLKMMSAMSSEATVIRSYIEWMIQVPWHQRSKVKKDIVKAQQVLDTDHYGLDRVKERILEYLAVQARLNKVKGPILCLVGPPGVGKTSLGQSIANATGRKYVRMALGGVRDEAEIRGHRKTYIGALPGKLIQKMAKVGVKNPLFLLDEIDKMASDMRGDPASALLEVLDPEQNTTFNDHYLEVDYDLSDVMFVATSNSMNIPGPLLDRMEVIRLSGYTEDEKLNIAMRHLLAKQIERNGLKKGELTVEESAILDIIRYYTREAGVRGLEREISKICRKAVKNLLVNPKLKSITVNSDNLHDYLGVKRFEFGKADTQNRIGEVTGLAWTEVGGDLLTIETASVVGKGKLSFTGSLGDVMKESIQAAMTVVRARADKLGINAEFHEKRDIHIHVPDGATPKDGPSAGIAMCTALISCLTGNPVRADVAMTGEISLRGKVLPIGGLKEKLLAAHRGGIKTVLIPKENVKDLEEIPENVKQNLAIHAVETIDEVLGFALENPPEGIEFVKVEAKPKAPRRKVTSKSERAVN |
| 2833 | sp|Q46865|MQSR\_ECOLI | MEKRTPHTRLSQVKKLVNAGQVRTTRSALLNADELGLDFDGMCNVIIGLSESDFYKSMTTYSDHTIWQDVYRPRLVTGQVYLKITVIHDVLIVSFKEK |
| 2834 | sp|Q9M6E8|NCED1\_PHAVU | MPSPASNTWINTTLPSSCSSPFKDLASTSSSPTTLLPFKKRSSSNTNTITCSLQTLHYPKQYQPTSTSTTTTPTPIKPTTTTTTTTPHRETKPLSDTKQPFPQKWNFLQKAAATGLDMVETALVSHESKHPLPKTADPKVQIAGNFAPVPEHAADQALPVVGKIPKCIDGVYVRNGANPLYEPVAGHHFFDGDGMVHAVKFTNGAASYACRFTETQRLAQEKSLGRPVFPKAIGELHGHSGIARLLLFYARSLFQLVDGSHGMGVANAGLVYFNNHLLAMSEDDLPYHVRITSNGDLTTVGRYDFNGQLNSTMIAHPKLDPVNGDLHALSYDVVQKPYLKYFRFSADGVKSPDVEIPLKEPTMMHDFAITENFVVVPDQQVVFKLTEMITGGSPVVYDKNKTSRFGILDKNAKDANAMRWIDAPECFCFHLWNAWEEPETDEIVVIGSCMTPADSIFNECDESLKSVLSEIRLNLRTGKSTRRPIISDAEQVNLEAGMVNRNKLGRKTQFAYLALAEPWPKVSGFAKVDLFSGEVQKYMYGEEKFGGEPLFLPNGEEEGDGYILAFVHDEKEWKSELQIVNAQNLKLEASIKLPSRVPYGFHGTFIHSKDLRKQA |
| 2835 | sp|Q949N0|NAC53\_ARATH | MGRGSVTSLAPGFRFHPTDEELVRYYLKRKICNKPFKFDAISVTDVYKSEPWDLPDKSRLKSRDLEWYFFSMLDKKYRNGSKTNRATEMGYWKTTGKDREILNGSKVVGMKKTLVYHKGRAPRGERTNWVMHEYRLVDQDLDKTGVHQDAFVLCRIFQKSGSGPKNGEQYGAPFVEEEWEEEDDMTFVPDQEDLGSEDHVYVHMDDIDQKSENFVVYDAIPIPLNFIHGESSNNVETNYSDSINYIQQTGNYMDSGGYFEQPAESYEKDQKPIIRDRDGSLQNEGIGCGVQDKHSETLQSSDNIFGTDTSCYNDFPVESNYLIGEAFLDPNSNLLENDGLYLETNDLSSTQQDGFDFEDYLTFFDETFDPSQLMGNEDVFFDQEELFQEVETKELEKEETSRSKHVVEEKEKDEASCSKQVDADATEFEPDYKYPLLKKASHMLGAIPAPLANASEFPTKDAAIRLHAAQSSGSVHVTAGMITISDSNMGWSYGKNENLDLILSLGLVQGNTAPEKSGNSSAWAMLIFMCFWVLLLSVSFKVSILVSSR |
| 2836 | sp|A0A060KY90|MYC1\_SOLLC | MTDYRLWSNTNTTNTCDDTMMMDSFLSSDPSSFWPASTPNRPTPVNGVGETMPFFNQESLQQRLQALIDGARESWAYAIFWQSSVVDFASQTVLGWGDGYYKGEEDKNKRRGSSSSAANFVAEQEHRKKVLRELNSLISGVQASAGNGTDDAVDEEVTDTEWFFLISMTQSFVNGNGLPGLAMYSSSPIWVTGTEKLAASQCERARQAQGFGLQTIVCIPSANGVVELGSTELIFQSSDLMNKVKYLFNFNIDMGSVTGSGSGSGSCAVHPEPDPSALWLTDPSSSVVEPKDSLIHSSSRDVQLVYGNENSENQQQHCQGFFTKELNFSGYGFDGSSNRNKTGISCKPESREILNFGDSSKRFSGQSQLGPGPGLMEENKNKNKNKKRSLGSRGNNEEGMLSFVSGVILPTSTMGKSGDSDHSDLEASVVKEAVVEPEKKPRKRGRKPANGREEPLNHVEAERQRREKLNQRFYALRAVVPNVSKMDKASLLGDAIAYINELKSKVQNSDLDKEELRSQIECLRKELTNKGSSNYSASPPLNQDVKIVDMDIDVKVIGWDAMIRIQCSKKNHPAARLMAALKDLDLDVHHASVSVVNDLMIQQATVKMGSRLYAQEQLRIALTSKIAESR |
| 2837 | sp|Q9BZQ8|NIBA1\_HUMAN | MGGSASSQLDEGKCAYIRGKTEAAIKNFSPYYSRQYSVAFCNHVRTEVEQQRDLTSQFLKTKPPLAPGTILYEAELSQFSEDIKKWKERYVVVKNDYAVESYENKEAYQRGAAPKCRILPAGGKVLTSEDEYNLLSDRHFPDPLASSEKENTQPFVVLPKEFPVYLWQPFFRHGYFCFHEAADQKRFSALLSDCVRHLNHDYMKQMTFEAQAFLEAVQFFRQEKGHYGSWEMITGDEIQILSNLVMEELLPTLQTDLLPKMKGKKNDRKRTWLGLLEEAYTLVQHQVSEGLSALKEECRALTKGLEGTIRSDMDQIVNSKNYLIGKIKAMVAQPAEKSCLESVQPFLASILEELMGPVSSGFSEVRVLFEKEVNEVSQNFQTTKDSVQLKEHLDRLMNLPLHSVKMEPCYTKVNLLHERLQDLKSRFRFPHIDLVVQRTQNYMQELMENAVFTFEQLLSPHLQGEASKTAVAIEKVKLRVLKQYDYDSSTIRKKIFQEALVQITLPTVQKALASTCKPELQKYEQFIFADHTNMIHVENVYEEILHQILLDETLKVIKEAAILKKHNLFEDNMALPSESVSSLTDLKPPTGSNQASPARRASAILPGVLGSETLSNEVFQESEEEKQPEVPSSLAKGESLSLPGPSPPPDGTEQVIISRVDDPVVNPVATEDTAGLPGTCSSELEFGGTLEDEEPAQEEPEPITASGSLKALRKLLTASVEVPVDSAPVMEEDTNGESHVPQENEEEEEKEPSQAAAIHPDNCEESEVSEREAQPPCPEAHGEELGGFPEVGSPASPPASGGLTEEPLGPMEGELPGEACTLTAHEGRGGKCTEEGDASQQEGCTLGSDPICLSESQVSEEQEEMGGQSSAAQATASVNAEEIKVARIHECQWVVEDAPNPDVLLSHKDDVKEGEGGQESFPELPSEE |
| 2838 | sp|P27476|NSR1\_YEAST | MAKTTKVKGNKKEVKASKQAKEEKAKAVSSSSSESSSSSSSSSESESESESESESSSSSSSSDSESSSSSSSDSESEAETKKEESKDSSSSSSDSSSDEEEEEEKEETKKEESKESSSSDSSSSSSSDSESEKEESNDKKRKSEDAEEEEDEESSNKKQKNEETEEPATIFVGRLSWSIDDEWLKKEFEHIGGVIGARVIYERGTDRSRGYGYVDFENKSYAEKAIQEMQGKEIDGRPINCDMSTSKPAGNNDRAKKFGDTPSEPSDTLFLGNLSFNADRDAIFELFAKHGEVVSVRIPTHPETEQPKGFGYVQFSNMEDAKKALDALQGEYIDNRPVRLDFSSPRPNNDGGRGGSRGFGGRGGGRGGNRGFGGRGGARGGRGGFRPSGSGANTAPLGRSRNTASFAGSKKTFD |
| 2839 | sp|A4R2R1|NST1\_MAGO7 | MKGNRRQPAVASQPTSPASPTPSKGTSKYANRDGSKIISVPKPSLSVETPQPSPTVSASMPPPTAGKGQPPSTAPTAPSGSNASGGEAAPTVNRKKAKRRAKLAAKAAAEAGLSGDNLSNGVAAHSASSSLPKQPSDAGHSDNEGEALSRPSQTNGHTSTGASKSKKGRKSKNEDGRFMDSAGSATGSNHHAEMRRPPSPIPHASPGRASGISKEKIWNTSSQEERQRIKEFWLGLGEEERKSLVKVEKDAVLKKMKEQQKQTCSCTVCGRKRTAIEEELEGLYDAYYEELESFANQPNPNGDVPPMLGPTGHFGSTAYTSQIMPSKYPPRQPSRGRIVEHCGDDEDDDGEDEYSEEELDDDEDYSDDEEPEEMHRQRPTEYQTDFFNFGNSLTVQGTRFHESLNSLPPYAKSYMEQVLKYVFRRDVDHSLGGILTVADDLLKNDGKKFIEMMEQLAERRMQREEDAKEQFARNYHINGNNYPAHAHPPPPEDDEEYEDEEEEEEYDSQDEEYDEEEVQTNPVHCACHCPCRGGDYGDAGMSASADDGSYQDHGQESHAKQHRHLQDSMTEEQRMEEGRRMFQIFAARMFEQRVLTAYREKVAKERQEKLLEELAQEDRETEKRKAKKQKEAQKRRDKALQKKQAQAEEKARKDAEKAAEEAERLAEEQRRQEEQRQKNEERKKKKEAQRKAEEEERQRKEAERLRRAQEQKERQAEQDRKAREAKEKEKKAKEEAKQREKAARELKEREARERKEKADKERLEKEAKIKAEKEAREAQRKAERASQKATTLANVPVPTGPARRQSQAPNPAPALPQSQQASVASPQLPTAVPALPKLPTPQKPRRTSQQEPFTSGFAAQQVHGQGAGQYPAPPKAATPVHTSPGPGGLLSKGSSSQGQSLHSQATSPLGTSLPTSTSLPTPFGMPHPPPNQHYPPGIGPLNAPPGLGGPRLFNDYPEQMYQQSPFGFRQATQQHPQLPPGLGIPMGPGRGLGHGPPPPPGLSAQQSDFPNMPASIFGSIPKEPSPLSSHSRQASANFDSPIAATPIARPTPIGRPGSVVQGRRGSSDSPGRPGQPGQDNLEEISAPHLGSSALLDDLDEPLMDDFMQDTRSARRSIPGPPQSSRFPPPAVGSFPMSNSPFGPSLWSQPGPSLVNQGFGGSFGQPAPPPGFNSLSDALSVNSPWTFASRPPPRHNLPQMRKVLIQACLDLASTKTPLLDEKAEDPSRRYLPITAVKKCVDTKFASGSTFTVDDLMSMTNTEGNANNGGGSFDTQEFDGELCVRWVPDDIGDSRTVGRSVGEIGSPIVGSRG |
| 2840 | sp|Q922W5|P5CR1\_MOUSE | MSVGFIGAGQLAFALAKGFTAAGVLAAHKIMASSPDMDQATVSALRKIGVNLTPHNKETVRHSDVLFLAVKPHIIPFILDEIGANIEDRHIVVSCAAGVTINSIEKKLTAFQPAPKVIRCMTNTPVVVREGVTVYATGTHAQVEDGRLVEQLMGSVGFCTEVEEDLIDAVTGLSGSGPAYAFTALDALADGGVKMGLPRRLAVRLGAQALLGAAKMLLDSEQHPSQLKDNVCSPGGATIHALHVLESGGFRSLLINAVEASCIRTRELQTMADQETISPAAIKKTVLDKVKLDSSAGASLSSDHVKPLP |
| 2841 | sp|Q7XEK4|ACA7\_ORYSJ | MECADYFIGSGRRCSPSTSTSTSREAWRPEKQWRKATNVIRGCHRLLRLGVLSAAAGIMRRNPSYVEIKVHDEGELDVSSGGDGEAPVAFTVAADDESFKGLVKNKREDCFRLLGGGAGVAAVLASGAERGIRGDDADVARRKKAFGSNTYPKPKPKGFFRHVWDALADVFLIVLLVCAAVSLAFGIKEHGIKDGWYDGVSIFLAVFLVAAVSAVSNHSQGKRFDKLARESENIMVSVVRAARRQEVSIFDVVVGDVVVLKIGDVVPADGVFLDGHALQVDESSMTGEPHPVEVDAVKSPFLASGVKVVDGYGKMVVTAVGTDTAWGEMMRTITRENTDPTPLQERLEGLTSSIGKVGIAVAVLVFAVLTARHFTGSTRDEQGNALFDKRNVTFNAVFSGLVGIFQQAVTIIVVAIPEGLPLAVTLTLAFSMKRMVRENALVRRLSACETMGSVTAICTDKTGTLTLNQMKVTEFWVGADRPRSAAAVNGGVVRLLCQGAGLNTTGSVYKPDNVSPPEITGSPTEKALLSWAVEELPMDADALKRKCKVVRVEAFNSDKKRSGVMLRDAATGAVTAHWKGAAEMVLARCTVYVGADGAARELGVEQRRKLEQVINDMAAASLRCIAFAYKQVVDGGDSDNAKIDDEGLTLLGFVGLKDPCRPEVKSAIEACTKAGIAVKMVTGDNVLTARAIAKECGIISGNDDDAAGVVIEGHEFRAMSEQEQLAIVDNIRVMARSLPLDKLVLVQRLKQKGHVVAVTGDGTNDAPALKEADVGLSMGVQGTEVAKESSDIVILNDNFDTVVTATRWGRCVYNNIQKFIQFQLTVNVAALVINFVSAVTTGRMPLTTVQLLWVNLIMDTMGALALATDTPTAGLMRRPPIGRAAPLISNAMWRNLAAQAAYQVAVLLALQYRGFGGAGAGERANGTMIFNAFVLCQVFNEFNAREIERRNVFAGVHRNRMFLGIVAVTVALQVVMVELLTKFAGTERLGWGQWGACVGIAAVSWPIGWAVKCIPVPERPFHEIITARRRRRRST |
| 2842 | sp|Q8RZ35|ABI5\_ORYSJ | MASEMSKNVKVTDDQEVTSQERDQSGGTKVGGEEEIAPLARQSSILSLTLEELQNSLCEPGRNFGSMNMDEFVANIWNAEEFQATTGGCKGAMEEAKVVDSGSGSGDAGGSGLCRQGSFSLPLPLCQKTVEEVWTEINQAPAHTSAPASALQPHAGSGGVAANDRQVTLGEMTLEDFLVKAGVVRGSFTGQAAMGSGMVNGPVNPMQQGQGGPMMFPVGPVNAMYPVMGDGMGYPGGYNGMAIVPPPPPAQGAMVVVSPGSSDGMSAMTHADMMNCIGNGMMIENGTRKRPHREDGCAEKTVERRQRRMIKNRESAARSRARKQAYTVELEAELNYLKQENARLKEAEKTVLLTKKQMLVEKMMEQSKEKMNANRGGSQLRRSGSCMW |
| 2843 | sp|Q8H8V7|AB5G\_ORYSJ | MSRFVDKLPLFDRRPSPMEEAEGLPRSGYLGQLHHHQYYQPHSNMLPLEQSPPTSTKHTSVTLAQLLKRVNDARSGSSTPISSPRYTIELGGSKPESVSSESDDHHSDDGGSEGQPRALVLKFTDLTYSVKQRRKGSCLPFRRAAADEPELPAMRTLLDGISGEARDGEIMAVLGASGSGKSTLIDALANRIAKESLHGSVTINGESIDSNLLKVISAYVRQEDLLYPMLTVEETLMFAAEFRLPRSLPTREKKKRVKELIDQLGLKRAANTIIGDEGHRGVSGGERRRVSIGVDIIHNPIMLFLDEPTSGLDSTSAFMVVTVLKAIAQSGSVVVMSIHQPSYRILGLLDRLLFLSRGKTVYYGPPSELPPFFLDFGKPIPDNENPTEFALDLIKEMETETEGTKRLAEHNAAWQLKHHGEGRGYGGKPGMSLKEAISASISRGKLVSGATDGTVSVAASDHSAPPPSSSSVSKFVNPFWIEMGVLTRRAFINTKRTPEVFIIRLAAVLVTGFILATIFWRLDESPKGVQERLGFFAIAMSTMYYTCSDALPVFLSERYIFLRETAYNAYRRSSYVLSHTIVGFPSLVVLSFAFALTTFFSVGLAGGVNGFFYFVAIVLASFWAGSGFATFLSGVVTHVMLGFPVVLSTLAYFLLFSGFFINRDRIPRYWLWFHYISLVKYPYEAVMQNEFGDPTRCFVRGVQMFDNTPLAALPAAVKVRVLQSMSASLGVNIGTGTCITTGPDFLKQQAITDFGKWECLWITVAWGFLFRILFYISLLLGSRNKRR |
| 2844 | sp|Q861Y3|ANGI\_RHIRO | MVMGLGLFLLVFMLGLGLTPPTLAQDNSRYRDFLTKHYDATPQGRNDRYCESMMRRRGLTSPCKDINTFIHGNSRHIKAICGDENGNPYGENLRISKSPFQVTTCNLRGGSSRPPCRYRATAGFRNIVVACENDLPVHLDQSIFRP |
| 2845 | sp|A8MG50|GRPE\_ALKOO | MKETKQEEMEVREDCESVDSNLEATVEEMESTKGTSEDLEQKLAEKTAQYEDIFSQFQRLQADFTNYKKRVEKEKGDIYLYANEKIALDLLNIIDNFERAIQSTEKTEENDSLLQGISLVYKQLLDTLTKHGVEEIEAMEKPFDMNLHYAVMQEESEGASNYVIDVLQKGYKIKDRILRPAMVKVSK |
| 2846 | sp|Q2GHU0|GRPE\_EHRCR | MSDNGDNNTKSPQHNNPQPNEKSDGKVQPGQPQVNPQRKFTAGINKKKEKLNEDLSELDKLRQQLIHFQNQFRLAVADKENVKRIMQKNIDDTSIYAISNFARDLLSSCDNLETSLKNLKEGDSIHAGVLMTYKELLNTLERHNITRIDPIGEKFNPQFHKAVSQMVDAEKDDNTILHVVQPGYIIKDKLLRAASVIISKKSD |
| 2847 | sp|A4WDH8|GRPE\_ENT38 | MSSKEQKTPEGQAPEEIITEQHEEVEAVEPDASAEQVDPRDEKIANLEAQLTEAQNREREGVLRVKAEMENLRRRTELDVEKAHKFALEKFVNELLPVIDSLDRALEVADKANPDMTAMVEGLELTLKSMLDVVRKFGVEVVAETNVALDPNVHQAIAMVESEDVAAGNVLAVMQKGYTLNGRTIRAAMVTVAKAKG |
| 2848 | sp|A9AGC0|GRPE\_BURM1 | MENTQENPASQSAEENGSETQAAQDAAPAAEAADAALAEAQAKVAELQESYLRAKAETENVRRRAQEDVAKAHKFAIESFAEHLLPVLDSLEAAVGDTSGDIAKVREGVELTLRQLTSALEKGRVVAINPVGEKFDPHRHQAISMVPADQEPNTVVTVLQKGYTIADRVLRPALVTVAQPK |
| 2849 | sp|B7LDK2|GRPE\_ECO55 | MSSKEQKTPEGQAPEEIIMDQHEEIEAVEPEASAEQVDPRDEKIANLEAQLAEAQTRERDGILRVKAEMENLRRRTELDIEKAHKFALEKFINELLPVIDSLDRALEVADKANPDMSAMVEGIELTLKSMLDVVRKFGVEVIAETNVPLDPNVHQAIAMVESDDVAPGNVLGIMQKGYTLNGRTIRAAMVTVAKAKA |
| 2850 | sp|A7GT09|GRPE\_BACCN | MEERNEQVVEETKEAQTEEATIEKNSEESVTEEATEETVVEEKSEAALLQEKVDELQAKLTETEGRMLRLQADFENYKRRVQLDKQAAEKYRAQSLVSDILPALDNFERAMQVEASDEQTKSLLQGMEMVYRQLLEALNKEGVEMIEAVGKQFDPHEHQAVMQVEDSEFESNAVVEEFQKGYKLKDRVIRPSMVKVNQ |
| 2851 | sp|A1V0U4|GRPE\_BURMS | MENTQENPTDQTTEETGREAQAAEPAAQAAENAAPAAEAALAEAQAKIAELQESFLRAKAETENVRRRAQDDVAKAHKFAIEGFAENLLPVLDSLEAAVGDTSGDLAKVREGVELTLRQLTSALEKGRVAALNPVGEKFDPHLHQAISMVPADQEPNTVVAVLQKGYTIADRVLRPALVTVAQPK |
| 2852 | sp|B0CJ30|GRPE\_BRUSI | MADEKNKPENPDLDQRDINNPRDREALKQAADNFLKARRAEARAEAAADEAEGEVDETANRIAVLEADNTELKDQMLRVAAEMENLRKRTQRDVQDARAYAITNFARDMLSVSDNLRRALDAIPADALEADSNLKSLSEGVEMTERAMLLALERHGVKKLEPEGQKFDPNFHQAMFEVPNPDLPNNTVVQVVQAGYAIGDRVLRPAMVGVSKGGPKVSAENGASTSEDNA |
| 2853 | sp|A0Q7F1|GRPE\_FRATN | MSKQEKSNVEDKSLDIETAAQVETAQESASGALEELSVEEQLERAKDTIKELEDSCDQFKDEALRAKAEMENIRKRAERDVSNARKFGIEKFAKELLPVIDSIEQALKHEVKLEEAIAMKEGIELTAKMLVDILKKNGVEELHPKGEKFDPNLHEAMAMIPNPEFEDNTIFDVFQKGYMLNGRIVRAAKVVIVKN |
| 2854 | sp|Q3JP08|GRPE\_BURP1 | MENTQENPTDQTTEETGREAQAAEPAAQAAENAAPAAEAALAEAQAKIAELQESFLRAKAETENVRRRAQDDVAKAHKFAIEGFAENLLPVLDSLEAAVGDTSGDLAKVREGVELTLRQLTSALEKGRVAALNPVGEKFDPHLHQAISMVPADQEPNTVVAVLQKGYTIADRVLRPALVTVAQPK |
| 2855 | sp|Q7MN92|GRPE\_VIBVY | MSNEENKINEEALKQQDAAEVEVEAVGTDADIEWNEEADESAVKIAELEAALLASEARVKEQQDSVLRAKAEVENMRRRTEQEIDKARKYALNRFAEELLPVIDNLERAIQAADAESEAVKPLLEGVELTHKTFVDVVSKFGLKEINPEGQPFNPEWHQAMSIQESPDHESNTVMFVMQKGYELNGRVIRPAMVMVAK |
| 2856 | sp|Q3SIN5|GRPE\_THIDA | MQDEFKTDTPRTEAGSEKETMPSMEELLKAAELAAAEHHDAWLRAKAETENMRRRAAEDVDKARKFAVESFAGELLAVKDSLEAALAAESPSVDNLKDGVTLTLKQLSAVFGKFNLHDIEPLGEKFDPHLHQAIQVVESEQPANTVVTVLQKGYRLHDRTLRPALVMVAKGKD |
| 2857 | sp|P46440|GSTF2\_TOBAC | MAIKVHGSPMSTATMRVAACLIEKDLDFELVPVDMVSGEHKKHPYLSLNPFGQVPAFEDGDLKLFESRAITQYIAHVYADNGYQLILQDPKKMPIMSVWMEVEGQKFEPHASKLTWELGIKPIIGMTTDDDAVKESEVQLSKVLDIYETRLAESKYLGGDSFTLVDLHHIPNIYYLMSTKVKEVFDSRPRVSAWCADILARPAWVKGLEKLQK |
| 2858 | sp|Q3IUI1|GRPE\_NATPD | MSDDQGDAVEASSEADEEASTSPDEGDDRDPVAAVAERAENDPASVAAELVALREEAAELETERDDLESRLKRKQAEFQNYKKRQEKQREKERARATEALVEKLLEVRDNLNRALEQDADADIREGVEATFRQLDDILDGEGVEAIEPDPGTETDPKRHEVLLQVESDEPEGTVAELHRPGYEMAGKVLRAAQVTVSEGPSGDSEAEDDADGEDGDE |
| 2859 | sp|Q465Y5|GRPE\_METBF | MKIFNKDGNKNSKEDTKAGAENSEAQNSGSSAEEVNKARENPEEASASSEAEKSPEVKCQEEKQVLMEKYYRLAADFDNFKKRTARQMEENRKAVLEQVLLDFVEVTDNFDRALKSAKTAEDMSSIVSGIEQLSRQFFSILEKYGLEKIESEKASEFDPHRHEAVHHIETSEVPDNTIVDVYKTGYALNSKVIRPAMVSVARNPDEAEK |
| 2860 | sp|Q6D8X9|GRPE\_PECAS | MSSKEQKTPDEQVLDQKEAAKGQQADAAPETADVADPRDERIAELEAQLSELQQRERDNMLRVRAEADNVRRRAEMDIEKAHKFAVEKFASEMLPVIDNLERALDTADKANESLAAMIEGVELTLKSLLDAVHKFGIEVVGDVGVPFNPEVHQAMTMLPSADHQPNHVMMVMQKGYTLNGRLLRPAMVAVSKAQD |
| 2861 | sp|B5YSJ3|HCHA\_ECO5E | MTVQTSKNPQVDIAEDNAFFPSEYSLSQYTSPVSDLDGVDYPKPYRGKHKILVIAADERYLPTDNGKLFSTGNHPIETLLPLYHLHAAGFEFEVATISGLMTKFEYWAMPQKDEKVMPFFEQHKSLFRNPKKLADVVASLNADSEYAAIFVPGGHGALIGLPESQDVAAALQWAIKNDRFVISLCHGPAAFLALRHGDNPLNGYSICAFPDAADKQTPEIGYMPGHLTWYFGEELKKMGMNIINDDITGRVHKDRKLLTGDSPFAANALGKLAAQEMLAAYAG |
| 2862 | sp|A8Z4C0|GRPE\_STAAT | MTNKDESVEKNTESTVEETNVKQNIDDSVEQAEESKGHLQDEAIEETSDENVIEEIDPKDQKINELQQLADENEEKYLRLYAEFENYKRRIQKENEINKTYQAQRVLTDILPAIDNIERALQIEGDDETFKSLQKGVQMVHESLINALKDNGLEVIKTEGEAFDPNIHQAVVQDDNPDFESGEITQELQKGYKLKDRVLRPSMVKVNQ |
| 2863 | sp|B5ZND2|HFQ\_RHILW | MAERSQNLQDLFLNTVRKQKISLTIFLINGVKLTGVVTSFDNFCVLLRRDGHSQLVYKHAISTIMPGQPMQMFESEEAAS |
| 2864 | sp|Q8DCU9|HFQ\_VIBVU | MAKGQSLQDPFLNALRRERIPVSIYLVNGIKLQGQIESFDQFVILLKNTVNQMVYKHAISTVVPARPVSHHSGERGSDRPSEKSED |
| 2865 | sp|Q0JNB6|HKT8\_ORYSJ | MSSLDATTPRYDEFKRIYHLFLFHAHPFWLQLLYFLFISLLGFLMLKALPMKTSMVPRPMDLDLIFTSVSATTVSSMVAVEMESFSNSQLLLITLLMLLGGEVFTSILGLYFTNAKYSSKMIATLPDDDDHGGSGKPPPPTTSPSSTLVELELAPPMDVVVVNPTTTATTHDEVELGLGRRNKRGCTCTTTHTSSSSSASKTTTTRLLMFVVMGYHAVVHVAGYTAIVVYLSAVGGAGAVVAGKGISAHTFAIFTVVSTFANCGFVPTNEGMVSFRSFPGLLLLVMPHVLLGNTLFPVFLRLAIAALERVTGWPELGELLIRRRRGGGEGYHHLLPSSRTRFLALTVAVLVVAQLALFCAMEWGSDGLRGLTAGQKLVGALFMAVNSRHSGEMVLDLSTVSSAVVVLYVVMMYLPPYTTFVPVQDKHQQTGAQSGQEGSSSSSIWQKLLMSPLSCLAIFIVVICITERRQIADDPINYSVLNIVVEVISAYGNVGFSTGYSCARQVRPDGSCRDLWVGFSGKWSKQGKLTLMAVMFYGRLKKFSLHGGQAWKIE |
| 2866 | sp|Q48A22|HFQ\_COLP3 | MAKGQSLQDPFLNALRRDRIPVAIYLVNGIKLQGQVESFDQFVILLKNTVSQMVYKHAISTVVPSRAVNTAPVPGPDDQSSDA |
| 2867 | sp|B8GW92|HFQ\_CAUVN | MSAEKKQNLQDTFLNSVRKSKTPLTIFLVNGVKLQGVVSWFDNFCVLLRRDGQSQLVYKHAISTIMPAQPVQLYEPSADADD |
| 2868 | sp|Q9Y2N7|HIF3A\_HUMAN | MALGLQRARSTTELRKEKSRDAARSRRSQETEVLYQLAHTLPFARGVSAHLDKASIMRLTISYLRMHRLCAAGEWNQVGAGGEPLDACYLKALEGFVMVLTAEGDMAYLSENVSKHLGLSQLELIGHSIFDFIHPCDQEELQDALTPQQTLSRRKVEAPTERCFSLRMKSTLTSRGRTLNLKAATWKVLNCSGHMRAYKPPAQTSPAGSPDSEPPLQCLVLICEAIPHPGSLEPPLGRGAFLSRHSLDMKFTYCDDRIAEVAGYSPDDLIGCSAYEYIHALDSDAVSKSIHTLLSKGQAVTGQYRFLARSGGYLWTQTQATVVSGGRGPQSESIVCVHFLISQVEETGVVLSLEQTEQHSRRPIQRGAPSQKDTPNPGDSLDTPGPRILAFLHPPSLSEAALAADPRRFCSPDLRRLLGPILDGASVAATPSTPLATRHPQSPLSADLPDELPVGTENVHRLFTSGKDTEAVETDLDIAQDADALDLEMLAPYISMDDDFQLNASEQLPRAYHRPLGAVPRPRARSFHGLSPPALEPSLLPRWGSDPRLSCSSPSRGDPSASSPMAGARKRTLAQSSEDEDEGVELLGVRPPKRSPSPEHENFLLFPLSLSFLLTGGPAPGSLQDPSTPLLNLNEPLGLGPSLLSPYSDEDTTQPGGPFQPRAGSAQAD |
| 2869 | sp|A5EVF4|HFQ\_DICNV | MSKSQSLQDPYLNALRKERVPVSIYLVNGIKLQGQIESFDAFVILLRNNISQMVYKHAVSTIVPSRNIHLSREEMGLEDEAGEEISAEYTPNAEGQAEATADPLYD |
| 2870 | sp|P04795|HSP15\_SOYBN | MSLIPSIFGGPRSNVFDPFSLDMWDPFKDFHVPTSSVSAENSAFVNTRVDWKETQEAHVLKADIPGLKKEEVKVQIEDDRVLQISGERNVEKEDKNDTWHRVDRSSGKFMRRFRLPENAKVEQVKACMENGVLTVTIPKEEVKKSDVKPIEISG |
| 2871 | sp|Q1LTX6|HTPG\_BAUCH | MILKEQETLGFQSEVKQLLNLMIHSLYSNKEIFLRELISNASDAADKLRFLALAKPDLYEGNGELYVRIICNKEKRTITIIDNGIGMCRTEVIDNLGTIAKSGTKAFLETIDVKNSKNNQLIGQFGVGFYSAFIVAQKVIVRTRAAGASADEGVHWESTGEGDYIIAAINKPERGTEITLFLREGEDEFLDDWRIKNTIGKYSDHITLPIEIATNSENKNNNIITWEQINKAQALWTRNKVDVSDQEYKDFYKHLYHDSNDPISWSHNRVEGQQEYTSLLYIPASASWGIWNRDHKYGLKLYIKRVLIMDHADYFLPNYLRFVKGIIDCNDLPLNISREMLQHNRITQNLKNAITKRILSMLEKLATQNNEQYQNFWQHFGLVIKEGLAEDPNNSKSIARLLRFSTTHSKSMEQNVSLDEYVSRIAEQQEKIYYIIADSYAAANSSPHLELLQKKGIEVLLLHERIDAWMMNYLIEFNGKSFQLVSKADLKLDKFLNENTTEQKDMTKAFEPFIERVKKYLGDRIKEVRLTYSLTDTPAIVTIDSNNMTTHMAKLIVASGQNKPDIKYIFELNPLHPIVKKVSNTDNDIYFSEVIELLLDQALLVECGTLENPNQFVRRINKLLNHDTIVN |
| 2872 | sp|B6EGP6|HSLO\_ALISL | MANNTLHRYLFEDLSVRGELVQLDDAYQQIISSKEYPKPVQNLLGELLVATTLLTATLKFEGSITLQLQGNGPVSLVVINGDNDQKVRGVARFEGEIADDATLHQLMGKGYLVITISPKDGERYQGVVALEGKDLAECFEGYFERSEQLKTRLWLRLGEFEGKPHAAGMLLQVMPDGTGSSDDFEHLEQLTDTVKNEELFSLEAEDVLYRLYNQDKVQLFEPQNVEFFCGCSRERSGGAIITIERSEVDDIIATEGKVSLHCDYCGTSYDFDSIDVAHLFEEATKGNDTVH |
| 2873 | sp|P12861|HSP83\_TRYBB | MTETFAFQAEINQLMSLIINTFYSNKEIFLRELISNSSDACDKIRYQSLTNQSVLGDEPHLRIRVIPDRVNKTLTVEDSGIGMTKADLVNNLGTIARSGTKSFMEALEAGGDMSMIGQFGVGFYSAYLVADRVTVVSKNNEDDAYTWESSAGGTFTVTSTPDCDLKRGTRIVLHLKEDQQEYLEERRLKDLIKKHSEFIGYDIELMVENTTEKEVTDEDEDEEAAKKAEEGEEPKVEEVKDGVDADAKKKKTKKVKEVKQEFVVQNKHKPLWTRDPKDVTKEEYASFYKAISNDWEEQLSTKHFSVEGQLEFRAILFLPKRAPFDMFEPNKKRNNIKLYVRRVFIMDNCEDLCPEWLGFLRGVVDSEDLPLNISRENLQQNKILKVIRKNIVKKALELFEELAGNKEDYKKFYEQFSKNVKLGIHEDSTNRKKLMELLRFHSSESGEEMTTLKDYVTRMKEGQKCIYYVTGDSKKKLETSPFIEQARRRGMEVLFMTDPIDEYVMQQVKDFEDKKFACLTKEGVHFEETEEEKKQREEEKASYERLCKAMKEVLGDKVEKVVVSDRLATSPCILVTSEFGWSAHMEQIMRNQALRDSSMSAYMMRKKTMEINTTHAIVKELKRRVEADENDKAAKDLIFLLFDTSLLTSGFTLDDPTAYADRIHRMIKLGLSLDDDAEEEEAQAPVAAAANSSTGASGMEEVD |
| 2874 | sp|A6WX59|HSLU\_OCHA4 | MSNFSPREIVSELDRFIIGQNDAKRAVAIALRNRWRRQQLEGQMREEVMPKNILMIGPTGVGKTEISRRLAKLAGAPFVKVEATKFTEVGYVGRDVEQIVRDLVEVAITLVREKRRDDVKAKAHLNAEERVLDALVGKTASPATRDSFRKKLRNGEMDDKEIEIEVADTGSGPSFEIPGMPGANIGVMNLSDMLGKAMGGRTKTRKTTVKDSYPILINDESDKLLDQDQIVQEALRVTEDEGIVFIDEIDKIASREGGMGAGVSREGVQRDLLPLVEGTTVATKYGPVKTDHVLFIASGAFHVSKPSDLLPELQGRLPIRVELNALTREDFRRILTETEASLIKQYIALMETEEVKLEITDDAIDALADIAVDLNATVENIGARRLQTVMERVLDEISYTAPDKTGATFVIDAAYVKDKIGSLAKNTDLSRFIL |
| 2875 | sp|Q4UKL3|HSCA\_RICFE | MQIIEITEPEQADFKQERQIAVGIDFGTTNSLIAIATNRKVKVIKSRDDKELIPTTIDFTNENFIIGNNKGLRSIKRLFGKTLKEILNTPALFSLIKDYLEANSSELKLNFANKQLRISEIAAEVFIYLKNQAEEQLKTNITKAVITVPAHFNDAARGEVMLAAKIAGFEVLRLIAEPTAAAYAYGLNKNQKGCYLVYDLGGGTFDVSILNIQEGIFQVIATNGDNMLGGDDIDVVITQYLCNKFDLPNSVDTLQLAKKAKETLTYKDSFNNDNISINKQTLEQLILPLVERTINIAKECLEQAGNPKIDGIILVGGATRTPLIKTELSKAFKVQHISKRFRQDEFKGEPAGRIKIREHRQVLQNSLVSNFMEYAVDILSDIDPDKAVVWGAALQAENLTAPHTNSLLIDVVPLSLGVELYGGIVEKIIMRNTPIPISVVKEFTTYADNQTGIQFHILQGEREMAVDCRSLARFELKGLPPMKAGNIRAEVTFAIDADGILSVSAYEKISNTSHTIEVKPNHGIDKTEIDIMLENAYKNAKIDYTTRLLQEAIIEAEALIFSIERAIAELTALLSESEISIINSLLDNIKEAAHARDRILINNSIKEFKSKIKKSMNTKLNIIINDLLKGKNINQTK |
| 2876 | sp|B0SKV3|HSLV\_LEPBP | METIHATTILSVRKNGKIAVGGDGQVSMGNTVMKHTAKKVRRLYNGKVIAGFAGSAADAFTLFELFEKKLIEHGGSVSRAAVELAREWRMDRMLRRLEALLIVCDANESFLISGTGDVISPDDGVLAIGSGGNFALSAARALVENTDLDPKEIITKAMNITADICIYTNHNLVIEEL |
| 2877 | sp|Q47HJ5|HRCA\_DECAR | MLDERARTLLKTLVEHYVADGQPVGSRALSKFSGLDLSPATIRNVMADLEEAGFVASPHTSAGRIPTARGYRLFVDSLLTVQPLEARQMGEMEEALHGRPAGQIIASASQLLSSLTHFAGVVIAPRRQSSRIRQIEFLSLSEKRILLIIVTADGDVQNRIVTTDKVYSPAELVSAANYLTQNFAGLDFEQIRHRLTVEIKQLRDDIKPLMALALDAGDAAMAENTTPYVISGERNLLDVEELSSNMKRLRELFDLFEQRSSLMRLLEISNSAEGVQIFIGGESGIATLDECSVIAAPYTVDGQVVGSVGVIGPTRMAYERVIPIVDITARLLSSALSYKSDN |
| 2878 | sp|Q9S7U5|HSFA8\_ARATH | MVKSTDGGGGSSSSSSVAPFLRKCYDMVDDSTTDSIISWSPSADNSFVILDTTVFSVQLLPKYFKHSNFSSFIRQLNIYGFRKVDADRWEFANDGFVRGQKDLLKNVIRRKNVQSSEQSKHESTSTTYAQEKSGLWKEVDILKGDKQVLAQELIKVRQYQEVTDTKMLHLEDRVQGMEESQQEMLSFLVMVMKNPSLLVQLLQPKEKNTWRKAGEGAKIVEEVTDEGESNSYGLPLVTYQPPSDNNGTAKSNSNDVNDFLRNADMLKFCLDENHVPLIIPDLYDDGAWEKLLLLSPSRKKTKKQENIVKKGKDDLTLEEEEEDGTMELDKSYMLKLISEEMEKPDDFEFGQLTPERSRNLEILTEQMELLASNE |
| 2879 | sp|Q2YXL4|HSLU\_STAAB | MDTAGIRLTPKEIVSKLNEYIVGQNDAKRKVAIALRNRYRRSLLDEESKQEISPKNILMIGPTGVGKTEIARRMAKVVGAPFIKVEATKFTEVGYVGRDVESMVRDLVDVSVRLVKAQKKSLVQDEATAKANEKLVKLLVPSMKKKASQTNNPLESLFGGAIPNFGQNNEDEEEPPTEEIKTKRSEIKRQLEEGKLEKEKVRIKVEQDPGALGMLGTNQNQQMQEMMNQLMPKKKVEREVAVETARKILADSYADELIDQESANQEALELAEQMGIIFIDEIDKVATNNHNSGQDVSRQGVQRDILPILEGSVIQTKYGTVNTEHMLFIGAGAFHVSKPSDLIPELQGRFPLRVELDSLSVEDFVRILTEPKLSLIKQYEALLQTEEVTVNFTDEAITRLAEIAYQVNQDTDNIGARRLHTILEKMLEDLSFEAPSMPNAVVDITPQYVDDKLKSISTNKDLSAFIL |
| 2880 | sp|Q835R9|HRCA\_ENTFA | MITERQQNILRLIIQNYTNTGLPVGSKKLMEDGIASSSATIRNDMKALEEYGLLAKTHSSSGRIPSMAGYRYYVDHLLQPTQVEENELRRIRQSFGKEFHEINDIIRQSAEILSELTSYTAFSLGPEVKERKLTGFRMVPLNDRQVLAIIVTDKGNVENQVFAIPAAVSSQDLEKMTQIINDKLVGQPLLTVYHRLRTEIPMILHRYFQTPEGMMNLFDEMLGHAFEEKVFVGGRMNLLDFGIKQDIEQLKSVYSFMQNSDELTHLLNGSATTENPIVFRIGSEIGNNLLEDMSMITATYEVSGHGKGTIALLGPTSMPYSKIFGLVDTFRHELASQLGDYYRFLGN |
| 2881 | sp|Q3Z6N9|HRCA\_DEHM1 | MLTPRAEIILRSIVRQYITKAVPVSSSSILEDCGLDICSATIRNEVVRLETEGYILRPHHSAGSIPADKGYRYYVESLKDVELPTNDKFLIRHLFHQVEKEMEEWLNLTVAVLSQRVQSMAVVTMPRQTQGKVHHIELVSLQDNLVLVVLILRGAKVKQQLINFENTVSQPELTLISNRLNDAYAGLTRFQIEQKTLNLNPDELKVKDSLIKMMRGEDEQESREPFFDGLHYMLEQPEFHQNQRVQEIMQLLEQKKLSKMIAPPSPFNRGVQVYIGQENASAEIRDYSLIVSQYGIPDEAVGTIGVIGPTRMAYERALSAVSYLSLVMSTLVAELYGKPPGGKDE |
| 2882 | sp|B8D8G2|HSCA\_BUCA5 | MIFFKKKHDKKLLLGIDLGTTYSLAATVREKSVILLLDKKKRYLLPSVVHYKKNKISVGWKALENITEDPTNTISSVKRLLGRSINFVKKKFPILPYLIEKDIHEGIFFRTNFGNITPIDVSSHILKKLKKRAVLLFNQEIDASVITVPAYFNDFQKKETKKAAVLSGINLIRLLNEPTAAAVAYGLQKLKKGIVLVYDLGGGTFDVSILNLNKGIFEVLATSGDSNLGGDDFDDALAKNIYKKSNLQNRCNDFFQTSLLQIAKSTKLKLTKYEKVEVHFFDWKGYITREEFNLIIIDFIKKTLFICSDLLEEINLSVEQIKEVIMVGGSTRIPLVHTEVSKFFKKDLLKSINPDQVVAIGAAMHVDMLFSSKNNTKNKVILLDVMPLSLGIEVMGGFVEKIIFRNTSLPISKTKEFTTYKDNQTSILIHIVQGERELVKDCISLSRFVLRDIKPQKAGLVRILVTFQVDTDGLIHVKILENYSSKEKKIIIDNNITLKNLNISQILKDSLKHSKDDYYFRVKEEKKIECVRTLEILNKSLKKHLKLISKKELKKIKYTQEKLQKSIQEDDYFSMKNNLQKLDEVSKNFFSLQLKNAIDCSSIKNILKENI |
| 2883 | sp|A1SHX8|HRCA\_NOCSJ | MQEERRLAVLRAIVEDYVATEEPVGSKALVERHGLGVSPATVRNDMAALEDEGYITQPHTSAGRVPTDKGYRLFVDRLTTIKPMSTAEKRAIATILDGAIDLDDVVQRSVRLLAQLTRQVAVVQYPTLSRSTVRHIELVALTPTRLLVVLILSTGRVEQRLVDLAAELGEEDLADLRTVVNRAALGEIIADAATALRALVPAEDATPTGAVVDVLVEAMSDHRSDERIAVGGAANLARFGDSFDSAVRPLLEALEEHVVLLKLLGEATAGEILTVRIGHEGPYQELSSTSVVATGYGPGDEALARLGIVGPTRMDYAGSMAAVRAVARYVSRILDEG |
| 2884 | sp|A0QEA3|HRCA\_MYCA1 | MGSADERRFEVLRAIVADFIATKEPIGSKTLVERHNLGVSSATVRNDMAVLEAEGYITQPHTSSGRVPTEKGYREFVDRLDDVKPLSAAERRAIQNFLESGVDLDDVLRRAVRLLAQLTRQVAIVQYPTLSSSTVRHLEVIALTPARLLMVVITDSGRVDQRIVELGDVIDDHELSRLREMLGQALVGKKLSAASVAVADLAEQLRSPDGLGDAVGRSATVLLESLVEHSEERLLMGGTANLTRNAADFGGSLRSILEALEEQVVVLRLLAAQQEAGKVTVRIGYETAAEQMVGTSMVTTAYGTSDTVYGGMGVLGPTRMDYPGTIASVAAVAMYIGEVLGAR |
| 2885 | sp|O16087|HSP83\_DROMI | MPEEAETFAFQAEIAQLMSLIINTFYSNKEIFLRELISNASDALDKIRYESLTDPSKLDSGKELYIKLIPNKTAGTLTIIDTGIGMTKSDLVNNLGTIAKSGTKAFMEALQAGADISMIGQFGVGFYSAYLIADRVTVTSKNNDDEQYVWESSAGGSFTVKADNSEPLGRGTKIXLYIKEDQTDYLEESKIKEIVNKHSQFIGYPIKLLVEKEREKEVSDDEADDEKKDDEAKKDMDTDEPKIEDVGEDEDADKKDKDGKKKKTIKEKY |
| 2886 | sp|G5EDT6|JKK1\_CAEEL | MENVCFQQRLRDLETRVRKWKFLKLGLTEVRLRPRDRRSTSVDQKHKECSSTSSSPQHQRPNNIGYLTSPMERKFTPLSMKPSPSRRDTEKDALEYEFLEGYKKSGTLEIDGEKQVVDPNEIHIISLLGSGSCGVVESATVRSKLMAVKTMYKNDNKENLKRILRDVRIMSMCNSPFIVTSYGYFMFDSSVKICMQIMSACCEKLLRRIYHSKLDFFPEFVAGHIVYSAISALDYLKEKHSIIHRDIKPSNILFDDSGNVKLCDFGISGFMTDSMAHSKSAGCPPYMAPERLTIETNSKYDVRSDVWSLGITVYQLVTGLYPFPLNDMEFTTLTIIANLNLPSPSLREETKRSFSPLFIEFLDLCLRKDVRERPEYRQLMKHDFYLDYDPASGSAYKFKAINGKCNQVADWFVDVIRLSKTEDELKSIPNTPCVN |
| 2887 | sp|Q42891|LGUL\_SOLLC | MASESKDSPSNNPGLHATPDEATKGYFLQQTMFRIKDPKVSLEFYSKVLGMSLLKRLDFPEMKFSLYFMGYEDTASAPSDPVERTAWTFSQKSTLELTHNWGTESDPNFTGYHNGNSEPRGFGHIGVTVDDVYKACERFESLGVEFVKKPLDGKMKGIAFIKDPDGYWIEIFDTKIIKDAAGSAS |
| 2888 | sp|Q8NN75|LCOP\_CORGL | MSTNSGNNLPESQESPEEPHYPHDTHPGLVPGISVDAQRNKFGLDKTVFGVTAALILAFIAWGISSPDSVSSVSSTMFSWAMTNTGWLLNFVMLIGIGTMLYIAFSRYGRIKLGTDEDEPEFSRFSWIAMMFGAGIGVGIFFFGPSEPLWHYLSPPPHTVEGSTPESLHQALAQSHFHWGLSAWGLYALVGGALAYSSYRRGRVTLISSTFRSLFGEKTEGIAGRLIDMMAIIATLFGTAATLGLSAIQVGQGVQIISGASEITNNILIAIIAILTIGFIISSVSGVSKGIRYLSNLNISLTLGLVLFVFITGPTLFLLNLIPSSVLEYGSEFLSMAGKSLSWGEETIEFQAGWTAFYWAWWIAWTPFVGMFIARISRGRTLREFALITMAIPSFILILAFTIFGGTAITMNRENVDGFDGSSSKEQVLFDMFSNLPLYSITPFILIFVLAVFFVTSADSASVVMGTMSSQGNPAPNKLIVVFWGLCMMGIAVVMLLTGGESALTGLQNLTILIAIPFALVLIVMAIAFIKDLSTDPAAIRQRYAKAAISNAVVRGLEEHGDDFELSIEPAEEGRGAGATFDSTADHITDWYQRTDEEGNDVDYDFTTGKWADGWTPESTEEGEVDAKKD |
| 2889 | sp|Q39024|MPK4\_ARATH | MSAESCFGSSGDQSSSKGVATHGGSYVQYNVYGNLFEVSRKYVPPLRPIGRGAYGIVCAATNSETGEEVAIKKIGNAFDNIIDAKRTLREIKLLKHMDHENVIAVKDIIKPPQRENFNDVYIVYELMDTDLHQIIRSNQPLTDDHCRFFLYQLLRGLKYVHSANVLHRDLKPSNLLLNANCDLKLGDFGLARTKSETDFMTEYVVTRWYRAPELLLNCSEYTAAIDIWSVGCILGETMTREPLFPGKDYVHQLRLITELIGSPDDSSLGFLRSDNARRYVRQLPQYPRQNFAARFPNMSAGAVDLLEKMLVFDPSRRITVDEALCHPYLAPLHDINEEPVCVRPFNFDFEQPTLTEENIKELIYRETVKFNPQDSV |
| 2890 | sp|Q9LS24|NAC96\_ARATH | MGSSCLPPGFRFHPTDEELIEYYLKRKVEGLEIELEVIPVIDLYSFDPWELPDKSFLPNRDMEWYFFCSRDKKYPNGFRTNRGTKAGYWKATGKDRKITSRSSSIIGYRKTLVFYKGRAPLGDRSNWIMHEYRLCDDDTSQGSQNLKGAFVLCRVAMKNEIKTNTKIRKIPSEQTIGSGESSGLSSRVTSPSRDETMPFHSFANPVSTETDSSNIWISPEFILDSSKDYPQIQDVASQCFQQDFDFPIIGNQNMEFPASTSLDQNMDEFMQNGYWTNYGYDQTGLFGYSDFS |
| 2891 | sp|Q4WXQ7|NST1\_ASPFU | MVPAPHTQHYSSSTMPNSSSTTAHSAPTTNGDVHAPKDHQLSSPSDTVPAPVNRKKQKRRQKQAARLAERQLANGHVSTDDATQNGSSHTNPERHHSDDGGADGPDHEQPANGDVYPKDGQDSTEAHIDSQNPQGPNGTESSQKSTGRKSKKKKGKKGRNGSHAQGDETSTPMSTPSVSMSHPLPPPLSSHLASHNILKPAKNRSIWNTSTQEERENIKTFWLELGEEERRQLVKVEKDAVLKKMKEQQRHSCSCTVCGRKRTAIEEELEVLYDAYYEELEQYANHNQGSFEKGSPMVPPPRLYQPPLRSPGQHTRTQGQFHPSRGRIHELTEDDDLEENYDEEEDDGDEPYSDEELDEEDEETRAARADFFAFGNSLTVKVADDLLKNDGKHFIDMMEQLAERRMQREEDTQYGIAAAHESLHSGHNHGPFDDEDYDDEEDEDYDSQEEEDYEEDEMDAMTEEQRMEEGRRMFQIFAARMFEQRVLTAYREKVAEQRQQKLIEELMEEETRNEQRNAKKAREAQKRKDKKRLQKQAKEEERARREAEKAAEEAAAKAEQEKKLEEQRKKREEQRKKKEAERKAQEEERARKEAEKLRRQREERERQAEAERKQREEKKRREEARRKEKEERELREKKAKEERDRKAQEQQAKKDTAKGGEEAKDQEKRDDQAKRSSQQVPVPIPTNLHHLQGLSPTVAHSPHVPSATPVLPKAPTPAKPRQPSQQDSHSSSPHSQAPSTDPSQASLSPRSMPVSQSSGVASGNSQQGQGLHAMLHQPQPSTPLSPLGRSIPPGFSSVNGIPPNPPGLSGMVARPPVGHDLPSYPSHSGPFISPFRGYPAPTGIPAPPGINGARPMPPGRGFPLEPAQGFAFHGQQIPGAFSTPQGGLPHRHSRQPSGSLERSPLENHAQPMPISRPSPIKRPSSTQQDQQKGDDRTTQRDVDDLSAHLGSSALLDDSDVSLSSNLSQSLPGATVPGTFSGPARASFGGPSLFPDPLSASGWSNNAFGSGGHHRAHTSRPVAIRLLVIQACKQLNTMSPSKGADGYHDVNLVLRHVEQLRPQNEPSISLKEMLDICDTEGNTQNGGGTFSIRKDETGEFVKFEPDNNSAASGHRGSIVPGEIGSPVPSSSLPAFGGIGTPSVLRQYSSPPMGF |
| 2892 | sp|Q21029|NSY1\_CAEEL | MSQNNKRQVQHNHEMSNDVCPLPLPPRGAPPPTAYHASRMAATSSSTNGSFEKSAIPGNARKLHVVIVIDQKVQKNLRVREMALKDVQKVADTLNVNLTRIDFDKLDFGETETLDLFYNADVALVDVTVTHQQPSLCYHIGVRESMGQSYNMILTYWSPDPEYHIMDALKKTHAHLPMIVYIHHQDSNQLQSYDKNNNDDDSKPPFARTNVPAKTITFQHRMKQVLKSVQVEASAHSREKFMSDLRKAREITDGDQKNDYLDKMRTRLDNPDVLHPDTVSLMMLSYRDNQNYGGMIRLVDDLKRIPDCLKVVDTPVIRYQYAFALNRRNKDGDRDLALNTVLSLVEGTTENEEKNGPLSPDVVCLAGRIYKDKFIASNYEDRESLNSAIEWYRRAFEMSPLEYSGINLTTLLRASGEHFENNLEMQQIAVVLNSLLGRKGALQNLMEYWDVATYFEVSVLAENYQKACEAALMMVKLKPPVWYLKSTMENIKLINRCAATISPIEKEKQQFLFWSEFFMEATEADTDISCPRYPVLILELNKEFTPSYLTLNNEEGTVILSHVLENSQQKKIHQSELRGIHRWHFARNNIKAVTESKRDDRQLFLYVHENSDDFNLLFPTKAHCKKAYDDMKSMADVADGNYQGRVLSNPDNEKIRFEYELSNSNERVVLGKGTYGTVYAARDMDTQRQIVVKEIEVKYDEEVQPLMEEISLHSTLCHANIVQYLGCDLVGKDGSNDHFLIFMEHVPGGSLSSLLRSKWGPMNENAMNYYGKQILEGLKYLHELKIVHRDIKGDNVLVNTYSGVCKISDFGTCKRLAGLNPVTETFTGTLQYMAPEVIDHGQRGYGAPADIWSFGCTMVEMATGRPPFVEMQNPQAAMFRVGMFKTHPPIPTEITEKCRNFIKSCFLPEACDRPSAKDLLQDPFIYHNHHSISRTRSGSINKKPATKIELNHDKEKKEKSKNQREMLRSTSHIGGMGVVERSPPTPEPMSATLTAGFSHVHSQTVSNALSTAREEKKLHLKIDHARNRTFSSSSPVPDGQSSAGTNMSHPGFQLSQPSSPIVDDTNHPHLIVSPISLNTMGSPLSSAALLNRTISDESSNSSSRFFMLQKDSERRRSLGQFMQDYKDLIIDSWSTLLIKQSDTELVVTVYMLEMLLDGMRDFLLKKDNTKMQKMIDDIRGLLDYDTAKIGQINLALYHFSDSIQPVLRRLDIKPHWMFALSNLITSAVQCAISILSPDLSLLLHAQDNLPSTSSIVAIRNSSLSEGEALIESRPPSREERVREDRKELRTLQEENEILIERLLQVERELNAQLKSGITRANRFRDFAMYRNTYPPFRTPPVAHAPPTPPFSASCGAQPSGTFTNQPPSFASIKPIAQKIIMPPGTENNYQVTRVQEELVSWLRGLEIDERSIALIASEAYTKSDMMDFVTRDELLSIGVGGGSSCRIMRAIGEVRERQRRQPVFLSPMRSRDDSLDDYHSSSADDMYTGAAAETSSGN |
| 2893 | sp|Q72EF3|NRFA\_DESVH | MNNQKTFKGLRLAALGLVAVAAFTAGCSDVSTELKTPVYKTKLTAEEIRNSAFKPEFPKQYASYERNDETTVMTEYKGSVPFNKNDNVNPLPEGYRHAQPYLKNLWLGYPFMYEYREARGHTYAIQDFLHIDRINRYAEKGGLPATCWNCKTPKMMEWVKESGDGFWAKDVNEFRDKIDMKDHTIGCATCHDPQTMELRITSVPLTDYLVSQGKDPKKLPRNEMRALVCGQCHVEYYFNGPTMGVNKKPVFPWAEGFDPADMYRYYDKHGDLQVKGFEGKFADWTHPASKTPMIKAQHPEYETWINGTHGAAGVTCADCHMSYTRSDDKKKISSHWWTSPMKDPEMRACRQCHSDKTPDYLKSRVLFTQKRTFDLLLAAQEVSVKAHEAVRLANEYQGAKAAGYDDLMIQAREMVRKGQFFWDYVSAENSVGFHNPAKALDTLAQSQQFSQKAIDLAMEATQYGIGKDLSGDIKTIVPPILKMNRKLQQDPEFMKTHKWFQYLPVLPKADQVWDGQKRLVSAKQ |
| 2894 | sp|Q10719|FUS1\_SCHPO | MMTASFKGIRISKPIVKEISSFGSLTNIDLHTDPYEKVEAKALSRSRLKNQSVKKTDLRITNDYSSLFVSIENKKNTIPDIHCNNLSKRPVGFTDSYVPGEALLCPDDPNLVNELFDDVLKRLREEKSDSGEQFHWDANVTLSQENKWSFITGYLSRNDKFLKISSNDSELNVKASVISYIEKLSCTPLKLKYVESLAVALRTESVTWVRYFLLMGGHIVLAKILQAIHEKKHLKSPDITLEIAILKSMRCIIGQKIGTDFYLSNKYPIDSVVHCLLSTKLLVRKLAAELLTFLCYSEKPNGINAIMKCMKNFANLKVESMNVFDLWLSQWKRTLLEKVVTEEKKVLEEAALHDKITIEYIISQMLLINAFLENIPSKTALLQFKESLRIGNFKSILLILKKINDEGVLKQLEKCVKLVSLDTANEKHFLKHTPNSAAHQSLLNTNMFNDANFEFMVKEHIKNFLKLLKEHNNPVRIIKLLDCLVLTLQADKGNGNSNNDIDCFYKELKIGNEQGNNAPGYSSVTSGYGTTNSKKVVASYDNTDDNEYSVSKSELYATGDTNNTTNQGYENSERKYVESSKYETDLKNIFDCLCLLFPSEFDPQSSFSAEKIFSKLKHLLTRTRDSYISEDTKILRLLNRSSSKLQDRDQEYLISKNNVNGNGNRDWVQPVNTTSSVSAFASPRIKPKLLFQPNQDEKLKLCKLDLAKANSITLKSEPSSAVSTHSFEVHLSMPGTQIKSANLAEKMETSKHKVFNPKRIDVVSDLPLDYRKSYYGRFSITDTKRFSKIENMRIKEVIDGNPFKAPPPAPLPPPAPPLPTAMSSLQKFEKNDSQIFRKTIIIPENISIDDIFKFCSGSESEVYASKIPGELCNPSKRLKQLHWKRLEVPFEKTLWNIVVADPYLLTLKLTAEGIFKQLEDCYPLREVTVSNKKVKEYTGFMPVDLQQMVSIRLHRFNSLTPIEIAKKFFHCDHDIMELVDFFNDRKFFRQEGLKKQLKPYMSSRNEEVMEVSEKLLELSRFDQIYTLIVVDIDTYYEKRMAALKIKSFLANNFRDFRRQIRKLHCASLELKSSLHFKYFLNLVLHIGNFMNDAPRRAKGYRLESLLRASMIKNDKTGLTLLHTIEKIVRTHFPQLEAFLVDLKAIPEISRFNLEQLEQDCNDICERMKNVEKDFSNEGIFSNHKALHPDDHICEVMVPWIPSGKSMVDELNSDITELKTTLKTTLLMYGENPDEPTSSARFFNNLNEIILEYKKASTVNQKMEKEEELAFLRLQALKASVKSNNAENSGSSKNEEVSATMENLISQLQKGLCDDSLSNKTDCTESSKQTIETLMNYENDKQTLEGSNKKRQTVVLKAECMLKQLENNNELKR |
| 2895 | sp|P38715|GRE3\_YEAST | MSSLVTLNNGLKMPLVGLGCWKIDKKVCANQIYEAIKLGYRLFDGACDYGNEKEVGEGIRKAISEGLVSRKDIFVVSKLWNNFHHPDHVKLALKKTLSDMGLDYLDLYYIHFPIAFKYVPFEEKYPPGFYTGADDEKKGHITEAHVPIIDTYRALEECVDEGLIKSIGVSNFQGSLIQDLLRGCRIKPVALQIEHHPYLTQEHLVEFCKLHDIQVVAYSSFGPQSFIEMDLQLAKTTPTLFENDVIKKVSQNHPGSTTSQVLLRWATQRGIAVIPKSSKKERLLGNLEIEKKFTLTEQELKDISALNANIRFNDPWTWLDGKFPTFA |
| 2896 | sp|B7GKC7|GRPE\_ANOFW | MFKGGEKMEKEQRTYDETLEQHEDAQSEQAPEEQVEQVENEATQQEEKDELTVAYEKIAQLEAKLAETENRFLRLHADFDNYRRRVRLDMEAAEKYRAQSLVSDLLPILDNFERALQVQVEDEKAKLLLQGMEMVYRSLIEALKKEGVEAIESVGKPFDPHVHQAVMQVDDQNYEPNTVVEEFQKGYKLKDRVIRPAMVKVNQ |
| 2897 | sp|O69297|GRPE\_CAMJE | MSEQKQEFENENAENSEHLQDENLQNIEDVEQNKLQKDYDELKDKYMRANAEFENIKKRMEKEKLSAMAYANESFAKDLLDVLDALEAAVNVECQDEISLKIKEGVQNTLDLFLKKLEKHGVALIKDEKEFDPNLHEAMFHVDSENHQSGEVVQVLQKGYKIADRVIRPTKVSVAK |
| 2898 | sp|Q7VRQ6|GRPE\_BLOFL | MIDNNKHNQDINASSANTIKKDELSESACKIDSIIDPKDDQIIQLQIQLAQIKEHERNTILRLKAEIENIQRRNIQEIEKAHKFALDRFVSELLPVIDNLERTLGIIDRSNTTLSAIIEGIDLTLKSFLDTVYKFGVKSIHEIHIPFNPEIHQAISTMESEKYESNQVLTIVQKGYSLNGRLVRPAMVIVAKSKS |
| 2899 | sp|Q8RH07|GRPE\_FUSNN | MKDKEIKEEVLKEEINKEVNEKKKCECEEGKEEAHEHKNDEHACCGKHNHKEEIEKLKAEIEEWKNSFLRKQADFQNFTKRKEKEVDELKKFASEKIITQFLGSLDNFERAIESSSESKDFDSLLQGVEMIVRNLKDIMSSEDVEEIPTEGAFNPEYHHAVGVETSEDKKEDEIVKVLQKGYMMKGKVIRPAMVIVCKK |
| 2900 | sp|Q6NEZ0|GRPE\_CORDI | MSTTDNTNGDDRRPGQPEWDDEENNFEHLDATEVPAEEEALVESAGLDADTLADLEDAFDGVDASTEDPGATVGETSTLESELAERTEDLQRLSAEYANYRRRTDRERKVGVEAAKAKVLGELLPILDDLELAQKHGDLDEGPLKAFRDKLVSVVEGLGVSAFGAEGDVFDAERHEAVQDLSSGDDKVLGTVLRRGYQMNDRLLRTAMVIIADPAEDAQ |
| 2901 | sp|Q79V15|GRPE\_BRADU | MTDRDRQPEDTTAPTGEPVVSKPYIMPDDPEPGSVELLQKEAAEARDRMLRTLAEMENLRKRTTKEVADARLYGITGFARDVLDIADNLQRALDAVPAEARAAADPGLTSLIEGVELTERSLLNALEKHGVKKFDPQGQKFDPNFQQAMFEVPDASVPAGTVVQVMQAGYTIGERVLRPALVGVAKGGAKAASAANSNEVN |
| 2902 | sp|Q9Z849|GRPE\_CHLPN | MTDTPPENEEQHESNVQNENEVEHLQQEIVTLKTELKEKNDKYLMALAESENSRKRLQKERQELMQYALENTLIDFLNPIESMEKALGFATQMSDDVKNWALGFNMILNQFKQIFEEKGIIEYSSIGQKFNPFLHEAVQTEETSEVPEGTILEEFAKGYKIGERPIRVAKVKVAKAPTPKENKE |
| 2903 | sp|P99086|GRPE\_STAAN | MTNKDESVEKNTESTVEETNIKQNIDDSVEQAEESKGHLQDEAIEETSDENVIEEIDPKDQKINELQQLADENEEKYLRLYAEFENYKRRIQKENEINKTYQAQRVLTDILPAIDNIERALQIEGDDETFKSLQKGVQMVHESLINALKDNGLEVIKTEGEAFDPNIHQAVVQDDNPDFESGEITQELQKGYKLKDRVLRPSMVKVNQ |
| 2904 | sp|Q1CAG9|GRPE\_YERPA | MSSKEQKTPNEQVSEEMENTAEQQVEATQETGECVDPRVAELEVQLSDALQRERESLLRAKAEVENIRRRTELDVEKAHKFALERFSSELLPVIDNLERALDTADKTNTELISMIEGVELTLKSLLDAVGKFGIEVVGETHVPFNPEVHQAMTMLESADHEPNHVMMVMQKGYTLNGRLLRPAMVAVSKAKS |
| 2905 | sp|Q8E299|GRPE\_STRA5 | MAVFNKLFKRRHSVSEEIKKDDLQEEVEATETEETVEEVIEEIPEKSELELANERADEFENKYLRAHAEMQNIQRRSSEERQQLQRYRSQDLAKAILPSLDNLERALAVEGLTDDVKKGLEMTRDSLIQALKEEGVEEVEVDSFDHNFHMAVQTLPADDEHPADSIAEVFQKGYKLHERLLRPAMVVVYN |
| 2906 | sp|A6QBG1|GRPE\_SULNB | MSQETEKDLEQTQNEELVEEAQSDEKKDQEVDPVEAAQAEAAEYKDKYIRAHADFENAKKRLEKDKMNAVAYANESFAKDILAVLDSFENALSAIEGANKENAAEVLEKMQEGVKLTYEQLKKVLEKNSIKEIESKGTFNPEVHQAIMQVDSDEHKTDDIVQVMQKGYTIKDRVLRPAMVSTAK |
| 2907 | sp|P55970|GRPE\_HELPY | MKDEHNQEHDHLSQKEPEFCEKACKEQQYEEKQEAGEKEGEIKEDFELKYKEMHEKYLRVHADFENVKKRLERDKSMALEYAYEKIALDLLPVIDALLGAHKSAAEEDKESALTKGLELTMEKLHEVLARHGIEGIECLEEFDPHFHNAIMQVKSEEKENGKIVQVLQQGYKYKGRVLRPAMVSIAKND |
| 2908 | sp|Q049W5|GRPE\_LACDB | MSKEEFPSEKDLPQEDQEKQAKAAEADKAGVKDDKKVKDDKEEAAKPADVELDQLKAEVAALTQKNKDLEDKYLRSQAEIQNAQRRYSKERADLVKYESQRLGKDILSSVDNLERALQVKADDEASRQLKKGIEMTLEGLVRALKDNGIEEIKADGEKFDPTLHQAVQSVPAENDDQKGHVVQVLQKGYVYKDRTLRPAMVVVAQ |
| 2909 | sp|Q03WI1|GRPE\_LEUMM | MTEKNEEVVEDKNISDQTDENLTEEIESEADDLQVEPDPKQAEIDKLTEQVNNLEEKLLRSQAEIQNIQQRNARELQNVRKYDGQKLASAVLPAVDNLERALQVEANDEVSKQIKTGVEMTLKTLNQALTDNGITSTGEIGESFDPTKHQAIQSVESDEVESDQIAQVLQKGYILQDRVIRPAMVAVAK |
| 2910 | sp|Q114R5|GRPE\_TRIEI | MAGENSSTETKNQEINEKTPEVQTFETNVEFESSQKVESDTELSADNASIDTDIQSTESTSKEKDQVLLKEAYELLQTQLETTKYQLEEKESQYKRLGADFDNFRKRTQKEKEDLDTQVKCSTIMELLPVIDNFERARSHIKPANDGEMAIHKSYQSVYKQMVDSLKRLGVSVMRPEGQEFDPNLHEAVMREATAEHPEGTVIEELVRGYILGERVLRHAMVKVATAPDTDAETENQTDPES |
| 2911 | sp|A8GI40|GRPE\_SERP5 | MSSKEQKTPNEQVSEEMEQQEVLPEAAEGVDLRDERIAELEAQLAEAQQHERDSLLRAKAEMENVRRRTELDIEKAHKFALEKFSGDLLPVLDNLERALELADKNNPELTAMIEGIELTLKSLQDVVRKYGIEIVGDTNVPFNPEVHQAMSLMESADHQPNHVMMVMQKGYTLNGRLLRPAMVAVSKAKA |
| 2912 | sp|Q07US4|GRPE\_RHOP5 | MTDPNGPKDIPEQSAEAAEPVVSKPYIMPDDPEPDAVELLAKEAAEARDKMLRTLAEMENLRKRTTREVADARIYGVTAFARDVLEIADNLQRALDAVPAEARANAEPGLKALIDGVELTERSLINALEKNGVKKFDPSGQKFDPNFQQAMYEVPDASVPAGTVVQVVQAGFMLGERVLRPALVGVSKGGAKAAPAAAANGESNSAA |
| 2913 | sp|B5QUG9|GRPE\_SALEP | MSSKEQKTPEGQAPEEIIMDQHEEVEAVEPNDSAEQVDPRDEKIANLEVQLAEAQTRERDTVLRIKAEMENLRRRTEQDIEKAHKFALEKFVNELLPVIDSLDRALEVADKANPDMAAMVEGIELTLKSMLDVVRKFGVEVIAETNVPLDPNVHQAIAMVESEEVPAGNVLGIMQKGYTLNGRTIRAAMVTVAKAK |
| 2914 | sp|Q13E58|GRPE\_RHOPS | MTDSNGQKDNNQDQAQPADPVVSKPYIMPDDPEEGTNEALVREAAEARDKMLRTLAEMENLRRRTAKEVADARTYGVSAFARDVLEIADNLQRALDAVPAEARANADAGLKGLIEGVELTERSLINALEKNGVKKFDPQGEKFDPNFQQAMYEVPDPSVPAGTVVQVVQAGFMIGERVLRPALVGVSKGGAKPAPAAANGNEGGVA |
| 2915 | sp|B1LQP2|HCHA\_ECOSM | MTVQTSKNPQVDIAEDNAFFPSEYSLSQYTSPVSDLDGVDYPKPYRGKHKILVIAADERYLPTDNGKLFSTGNHPIETLLPLYHLHAAGFEFEVATISGLMTKFEYWAMPHKDEKVMPFFEQHKSLFRNPKKLADVVASLNADSEYAAIFVPGGHGALIGLPESQDVAAALQWAIKNDRFVISLCHGPAAFLALRHGDNPLNGYSICAFPDAADKQTPEIGYMPGHLTWYFGEELKKMGMNIINDDITGRVHKDRKVLTGDSPFAANALGKLAAQEMLAAYAG |
| 2916 | sp|Q9HUM0|HFQ\_PSEAE | MSKGHSLQDPYLNTLRKERVPVSIYLVNGIKLQGQIESFDQFVILLKNTVSQMVYKHAISTVVPSRPVRLPSGDQPAEPGNA |
| 2917 | sp|A6VD57|HFQ\_PSEA7 | MSKGHSLQDPYLNTLRKERVPVSIYLVNGIKLQGQIESFDQFVILLKNTVSQMVYKHAISTVVPSRPVRLPSGDQPAEPGNA |
| 2918 | sp|C3KDW3|HFQ\_PSEFS | MSKGHSLQDPYLNTLRKEKVGVSIYLVNGIKLQGTIESFDQFVILLKNTVSQMVYKHAISTVVPVRPIRLPSAAGDDAADAEPGNA |
| 2919 | sp|Q88DD3|HFQ\_PSEPK | MSKGHSLQDPYLNTLRKEKVPVSIYLVNGIKLQGSIESFDQFVVLLKNTVSQMVYKHAISTVVPARPVRLPSPTDSEHGDSEPGNA |
| 2920 | sp|B2SXS5|HFQ\_PARPJ | MSNKGQLLQDPFLNALRKEHVPVSIYLVNGIKLQGNIESFDQYVVLLRNTVTQMVYKHAISTVVPARPVNFHPDSEQS |
| 2921 | sp|Q8EJ69|HFQ\_SHEON | MAKGQSLQDPFLNALRRERVPVSIYLVNGIKLQGQVESFDQFVILLKNTVSQMVYKHAISTVVPARPFNVAGHQNAQGGYGAQDDMPSGE |
| 2922 | sp|Q47BS1|HFQ\_DECAR | MSNKGQLLQDPFLNALRREHVPVSIYLVNGIKLQGQVESFDQYVVLLKNTVTQMVYKHAISTVVPARPVNLQQEQAAE |
| 2923 | sp|Q3ACA9|HFQ\_CARHZ | MSKNQLNLQDAFLNQVRKENVGVTIFLINGFQLKGFVKGFDNFTVILESEGKQHMIYKHAISTIIPQRPVNTYLAKGGNEENTPS |
| 2924 | sp|A4SR25|HFQ\_AERS4 | MAKGQSLQDPFLNALRRERIPVSIYLVNGIKLQGQIESFDQFVILLKNTVSQMVYKHAISTVVPARAVNHHQHVPGAAGEEQGEAEA |
| 2925 | sp|A5EIZ5|HFQ\_BRASB | MAADRAQNLQDTFLNHVRKTKTPLTIFLVNGVKLQGIVTWFDNFCLLLRRDGHSQLVYKHAISTIMPGAPIQLFEGGEDASA |
| 2926 | sp|Q9T0D3|HFB2B\_ARATH | MPGEQTGETPTVAGVGGGGAGCSAGNSGGSSGCGAGGGGGGSGGGGGGGGDSQRSIPTPFLTKTYQLVEDPVYDELISWNEDGTTFIVWRPAEFARDLLPKYFKHNNFSSFVRQLNTYGFRKVVPDRWEFSNDCFKRGEKILLRDIQRRKISQPAMAAAAAAAAAAVAASAVTVAAVPVVAHIVSPSNSGEEQVISSNSSPAAAAAAIGGVVGGGSLQRTTSCTTAPELVEENERLRKDNERLRKEMTKLKGLYANIYTLMANFTPGQEDCAHLLPEGKPLDLLPERQEMSEAIMASEIETGIGLKLGEDLTPRLFGVSIGVKRARREEELGAAEEEDDDRREAAAQEGEQSSDVKAEPMEENNSGNHNGSWLELGK |
| 2927 | sp|Q338B0|HFA2C\_ORYSJ | MDPAAAGIVKEEMLESQQQQRQEDGGAAPRPMEGLHEVGPPPFLTKTYDLVEDPATDGVVSWSRAGNSFVVWDPHVFADLLLPRLFKHNNFSSFVRQLNTYGFRKVDPDRWEFANEGFLRGQRHLLKTIKRRKPPSNAPPSQQQSLTSCLEVGEFGFEEEIDRLKRDKNILITEVVKLRQEQQATKDHVKAMEDRLRAAEQKQVQMMGFLARAMRNPEFFQQLAQQKEKRKELEDAISKKRRRPIDNVPFYDPGETSQTEQLDSPYLFDSGVLNELSEPGIPELENLAVNIQDLGKGKVDEERQNQTNGQAELGDDFWAELLVEDFTGKEEQSELDGKIDGIDELAQQLGYLSSTSPK |
| 2928 | sp|A4VMI8|HTPX\_PSEU5 | MMRIFLFLATNLAVLVIASITLKLLGVDRYTGQNYGSLLVFCAVFGFAGSLISLFISKWMAKMSTRTEIISQPRTRHEQWLLQTVEQLSREAGIKMPEVGIFPAYEANAFATGWNRNDALVAVSQGLLERFSPDEVRAVLAHEIGHVANGDMVTLALIQGVVNTFVMFFARIFGNFVDKAILKNEDGHGIGYFVATIFAELVLGILASIIVMWFSRKREYRADEAGAQLAGTSAMIGALQRLRAEQGLPVHMPDSLKAFGINGSLKHGMAGLFMTHPSLEDRIEALRQRG |
| 2929 | sp|Q6EUG4|HFC2A\_ORYSJ | MTTTTAEGGGGVAPFVAKTYRMVDDPATDGVIAWGRDSNSFVVADPFAFSQTLLPAHFKHSNFSSFVRQLNTYGFRKVDPDRWEFAHVSFLRGQTHLLRRIVRRSSGGGGAKRKEEAGGCGGGGEAAAGDVDEESAVVALEVARLRREQREIEGRVAAMWRRVQETERRPKQMLAFLVKVVGDPQVLRRLVDRDNTNAAASNADDSAVHHQVKRPRLLLDSSSTTTTHGDRHLVTAAADGFYAGGCGPEAAAAAAFVPDDAVDFTGLYTGGDGFGNAVVDAGVDYPPAYAFPVVDSGY |
| 2930 | sp|Q01544|HSP21\_IPONI | MDLRLMGFDHPLFHHIMDYAGDDKSSNSSAPSRTFMLDAKAMAATPADVKEYPNSYVFIIDMPGLKSGDIKVQVDGDNVLSISGERKREAEEKEGAKYVRMERRVGKLMRKFVLPENANKEKITAVCQDGVLTVTVENVPPPEPKKPRTIEVKIG |
| 2931 | sp|Q8H7Y6|HFA2D\_ORYSJ | MEKMMPGMVKEEWPPSSPEEGEAPRPMEGLHEVGPPPFLTKTFDLVADPATDGVVSWGRAGSSFVVWDPHVFAAVFLPRFFKHNNFSSFVRQLNTYGFRKIDPDRWEFANDGFLRGQRHLLKMIKRRRPLSYLPGSQQALGTCLEVGQFGLDEEIDRLKRDKNILLAEVVKLRHKQQSTKANMRAMEERLQHAEQKQVQMMGFLARAMQNPDFFHQLIHQQDKMKGLEDTFSKKRTRSIDIVPFLNPGEVSQGDQLESTLLFDPRPFAELNDEPAKSELENLALNIQGLGKGKQDVNRTRNQPRNQASNETELTDDFWEELLNEGARDDAGIPGMERRRPRYVDALAQKLGYLSNSSQK |
| 2932 | sp|B9DT23|HSLO\_STRU0 | MDKIIKSISETGSFRAFVLDSTQTVKTAQEKHQTLSSSTVALGRTLIANQILAANQKGDSKITVKVIGDSSFGHIISVADTKGHVKGYIQNTGVDIKKTATGEVLVGPFMGNGHFVTIIDYGTGNPYTSTTPLITGEIGEDFAYYLTESEQTPSAVGLNVLLDEEDKVKVAGGFMVQALPGASEEEIARYEKRLQEMPAISTLLAAEDPSDALLSAIYGDEGYKRLSEDSLSFQCDCSKDRFESALMSLPNTDLQDMIDQDHGAEIICQFCQTRYQFSEDDLKGIINDKA |
| 2933 | sp|P26413|HSP70\_SOYBN | MATKEGKAIGIDLGTTYSCVGVWQNDRVEIIPNDQGNRTTPSYVAFTDTERLIGDAAKNQVAMNPQNTVFDAKRLIGRRFSDSSVQNDMKLWPFKVGGSPCDKPMIVVNYKGEEKKFSAEEISSMVLVKMREVAEAFLGHAVKNAVVTVPAYFNDSQRQATKDAGAISGLNVLRIINEPTAAAIAYGLDKKASRKGEQNVLIFDLGGGTFDVSILTIEEGIFEVKATAGDTHLGGEDFDNRMVNHFVSEFKRKNKKDISGNARALRRLRTACERAKRTLSSTAQTTIEIDSLYEGIDFYATITRARFEEMNMDLFRKCMEPVEKCLRDAKIDKSQVHEVVLVGGSTRIPKVHQLLQDFFNGKELCKSINPDEAVAYGAAVQAAILSGQGDEKVQDLLLLDVTPLSLGLETAGGVMTVLIPRNTTIPTKKEQIFSTYSDNQPGVLIQVFEGERARTKDNNLLGKFELTGIPPAPRGVPQVNVCFDIDANGILNVSAEDKTAGVKNKITITNDKGRLSKEEIEKMVKDAERYKAEDEEVKKKVEAKNSLENYAYNMRNTIKDEKIGGKLSPDEKQKIEKAVEDAIQWLEGNQMAEVDEFEDKQKELEGICNPIIAKMYQGAAGPGGDVPMGADMPAAGAGPKIEEVD |
| 2934 | sp|A7H4M0|HTPG\_CAMJD | MQFQTEVNQLLQLMIHSLYSNKEIFLRELISNASDALDKLNFLSVSDDKYKSLKFEPKIEIKIDKDKKTLSISDNGIGMDKNDLINNLGTIAKSGTKSFLENLSGDAKKDSQLIGQFGVGFYSAFMVASKIEVLSKKALDDKAYLWSSDANGYEINDASKEEQGTSITLYLKDDEFAHAYKIENIIEKYSNHIQFPIFMEKEEFTPAKEGEEEGKTELKISQINKANALWRMQKSSLKAEDYERFYEQNFHDSNKPLLYLHTKSEGKLEYNSLFFIPQNAPFDLFRVDYQSGLKLYVKRVFISDDDKELLPTYLRFVRGIIDVEDLPLNVSREILQENQILKGVKEASVKKILGELEKLKNNDKEKYLSFFKTFGKVLKEGLYGFGGEKDSLLKLMLYKSTKGENLRSLEEYKNDLQGEQKEIFYIAGNNESLLRTSPLLEEYKQKNIEVLLMDDEIDSLVTPMLEFEGLKFVAINQVEDKNELSDEEKNTFAPLVAKFKELLKDQVEDVRLTSRLKDSPSCIVYDKNKLDFAMQQLLKQMGQEQNFKPILEINPKHAIFTGLKNNETFSADIATLVLNMAKLSEGMGVDNPAEFNASLTKIINKAFS |
| 2935 | sp|Q1H2K2|HTPG\_METFK | MSTETLQKETLGFQAEVKQLLQLMIHSLYSNKEIVLRELISNASDAADKLRFEALADNSLYGNDSDLKIRVSFDKQARTITISDNGIGMSREEVINNIGTIAKSGTKEFLQSLTGDQAKDANLIGQFGVGFYSAFIIADKVTLTTRRAGSNEAVRWESTGEGDYTLEPAEKESRGTDIVLHLREGEDEFLNDWKLKSIIRKYSDHITLPIVMKKSEWKDGEQVPTDEDETVNKASALWARNKSDISEQEYQEFYKHVSHDFENPLTWSHNRVEGKQEYISLLYIPSKAPFDLYDRERQHGIKLYVKRVFIMDDAEQLMPQYLRFVRGVIDSADLPLNVSREILQHSKDIEAIKTASVKRVLSMLEDLAENKPEEYAKFWKEFGRVLKEGPGEDFANKERIAGLLRFASTHADTDEQVVSFKDYIARMKEGQEAIYYITADSFAAAKHSPHLEIFRKKGIEVLLLSDRVDEWLVSSLTEFDGKKLQSVAKGDLDLGKLEDEAEKEQQKKTEDEYKPLVERIQAALGDSVKEVRVTHRLTDSPACLVAGEHDLSGNLERLLKAAGQKTPGSKPILEINPDHGIVQRLKDVTDEAKFADWAHLLFDQALLAEGGQLEDPAAFVRRVNAMLA |
| 2936 | sp|P02518|HSP27\_DROME | MSIIPLLHLARELDHDYRTDWGHLLEDDFGFGVHAHDLFHPRRLLLPNTLGLGRRRYSPYERSHGHHNQMSRRASGGPNALLPAVGKDGFQVCMDVSQFKPNELTVKVVDNTVVVEGKHEEREDGHGMIQRHFVRKYTLPKGFDPNEVVSTVSSDGVLTLKAPPPPSKEQAKSERIVQIQQTGPAHLSVKAPAPEAGDGKAENGSGEKMETSK |
| 2937 | sp|B1XB97|HSLU\_ECODH | MSEMTPREIVSELDKHIIGQDNAKRSVAIALRNRWRRMQLNEELRHEVTPKNILMIGPTGVGKTEIARRLAKLANAPFIKVEATKFTEVGYVGKEVDSIIRDLTDAAVKMVRVQAIEKNRYRAEELAEERILDVLIPPAKNNWGQTEQQQEPSAARQAFRKKLREGQLDDKEIEIDLAAAPMGVEIMAPPGMEEMTSQLQSMFQNLGGQKQKARKLKIKDAMKLLIEEEAAKLVNPEELKQDAIDAVEQHGIVFIDEIDKICKRGESSGPDVSREGVQRDLLPLVEGCTVSTKHGMVKTDHILFIASGAFQIAKPSDLIPELQGRLPIRVELQALTTSDFERILTEPNASITVQYKALMATEGVNIEFTDSGIKRIAEAAWQVNESTENIGARRLHTVLERLMEEISYDASDLSGQNITIDADYVSKHLDALVADEDLSRFIL |
| 2938 | sp|Q0S467|HTPG\_RHOJR | MSTKIEQLEFQAETRQLLDLMIHSVYSNKDSFLRELISNASDALDKLRLEAFRNKELHVDTSDLHVEIEVDAEKRTLTVRDNGIGMSHDEVVDLIGTLAKSGTADLRRKLKEAKDAAASEELIGQFGIGFYSTFMVADKVTLLTRKAGESEATRWESSGEATYTIEAVDDAPQGSSVTLHLKPEDAEDHLHDYTSERKIKELVKRYSDFIAWPIRMNVERTVPAEGDGEDEVTTTSETINSMKALWARSKDDVSEDEYKEFYKHIAHAWDDPLEVIPMKAEGTFEFQALLFIPSHAPFDLFMRDGKTGVQLYVKRVFIMDDCDQLMPEYLRFVKGVVDAQDLSLNVSREILQQDRQIRAIRRRLTKKVLTTIKDLKTERPDDYRTFWAEFGRAVKEGLMSDTDNRDVLLGISSFASTHSEEELTSLEDYVARMKDGQEQIFYATGESRQLLESSPHMEAFRAKGFEVLLLTDPVDEMWVGAVPEFDGKSFQSIAKGEVDLDTEEDKKAHESEREEQEKDFAGLLSWMADALSEQVKEVRLSTRLTTSPACIVGDAFSMSPALERMYRASGQPVPVTKRILELNPTHPLVTGLREAHGERNEDPALGETAELLYGMALLAEGGELEDPARFTTMLANRLARTV |
| 2939 | sp|A9KGQ8|HTPG\_COXBN | MSLQPQSETLSFEAEVKQLLHLVAHSLYSNKEIFLRELISNSSDAADKLRYQALSDAALYENDADLKIWIDFDKDNRTITIRDNGIGMSREEVIENLGTIAKSGTRAFRELLAEKKAEDSQLIGQFGVGFYSAFIVADRVVVRTRRAGMKADQGVEWESTGEGEYTLKNIDKPTRGTEVVLHLKESEEEFLDPLRLRAIITKYSDHILLPIVMKKIKTSGADDEDKNETPEEEVVNRANALWVLPKDKIKDEEYKELYKHIAHDFEDPLAWVHNKVEGKLEYTTLLYIPARAPFDIWNREGQRGLKLYVKRIFIMDDAEHFMPMYLRFVKGIVDSNDLPLNISRELLQSNEVINKIKAGCVKRILSLLEDLAKNDKEKYASFWKAFGQVLKEGPAEDFANRDRIANLLRFASTHNDTDEQNVSLQDYISRMKPEQNRIYYIVADTYTSAKNSPLLEVFRKKDIEVLLMSDRVDEWLVAHLNEFEGKSLQSIAKGTLDLGDLEKEEKVETEKFEKDFDELLKQFKEVLGEKIKDVRITHRLTDSPTCVVFDENEMSGHLQRLLIQTGQDFMQAKPILEINPSHPLILRVKNESDKTRFNRWADLLLNQALLAEGEQLKDPASFVKGLNELLLDS |
| 2940 | sp|Q39SQ3|HTPG\_GEOMG | MTKTTKKFETEVQQLLDLVIHSLYSNKDIFLRELISNSSDAIDKVLFEAHQNAAVIEGEPEGKIKLIPDKEAGTITIRDNGVGMTMEEVEKNIGTIAHSGTKAFLANLKEQNVSEHPELIGQFGVGFYASFMVADRVTLVTRRAGQDKAAGVRWESTGDGTYTVEEAVKETRGTEITLHLKEEMKEYLDEWKIRSIVRKYSDYVQYPVVMDVTRTEVPKGVNGEEIEGAGTIEKTVEETLNSMKAIWARAKSEVTEEEYEEFYKHVSHDFEKPLKTIHYSAEGVSEFKALLYLPAHKPFDLFMPERKKGVQLYVRRVFITDSCEQLIPDYLRFVKGVVDSSDLPLNVSREILQEDVQIKRIQKSLVSKIISTLSEMREKEADDYLAFYKEFGQVLKEGVHFDYANREKLQDLLLFESTRTEAGKFTSLKEYVERMPAGQEEIYFITGTSRTALEQSPHLEIFRKKEYEVLFLTDPVDEWVVQGVTEYDGKKLKAVDRGDVIPATEEEKKEQEAKREEAFKQYGDLLSFVKEKLDARVKEVRLSSRLTDSACCLVADEHGLNANMERILRAMNQDVPESKRILELNPDHPLMQVMANLFARDKANPRLGDYCDLLYDQALLTEGSPISDPLRFTRLVAELMVADGKAAAGE |
| 2941 | sp|A0PRT4|HTPG\_MYCUA | MNARVEQLEFQAEARQLLDLMIHSVYSNKDSFLRELISNASDALDKLRIEAFRNKDLEVDTSDLHIETEADKGARTLTVRDNGIGMTRAEVVDLIGTLAKSGTAELRAQLREAKNDAASEELIGQFGIGFYSSFMVADKVELLTRKAGESEATKWESSGEGTYTIESVEGAPQGTSVTLHLKPEDAEDELYDYTADWKLRHLIKKYSDFIAWPIRMEVEKRVPAPHEEGEEPGEETVVLETETLNSMKALWARPKDEVSADEYNEFYKHIAHAWDDPMEVIAMKAEGTFEYQALLFIPSHAQHDLFNRDAVFGIQLYVKRVFIMGDCDQLMPEYLRFVKGVVDAQDMSLNVSREILQQDRQIKAIRRRLTKKVLSTIKDLQSERPEDYRTFWTQFGKVVKEGLLADFDNRETLLEISSFASTHSEEEPTTLAGYVERMKEDQTQIFFATGDSRQQILKSPHLEAFRAKGYEVLLLTEPVDEVWVGVVNEFDGKPLQSVAKGEVDLDSDGEGSEAEREEQQKEFADLLGWLKETLGEQVKEVRLSTRLTESPACLITDTFGITPALARIYRATGQDVPVGKRTLELNPTHPLVIGLRQAQASADDDAKKEAVSETAELLYGTALLAEGGAPDDPARFAELLADRLTRTL |
| 2942 | sp|P40920|HSP30\_EMENI | MSLFRTIPTPGDFAPLFRLLDDYDNHRSARGHASVQSFAPRFDVRESNEAYHLDGELPGIPQSNIDIEFTDPQTLVIKGRSEREYHSSSDDNKNDQADTENQARGESSEVAKTGEKQVSTKKAANKSRYWVSERSVGEFQRTFTFPTRVNQDDVKASLKDGILSLVVPKAVPPTAKKITIQ |
| 2943 | sp|Q2IQY5|HTPG\_RHOP2 | MTTIDTASETKPFQAEVAELLNLMVHSVYSETDIFLRELISNASDALDKLRYESIANPALMADGGEPKIRIVPKKAPDTLTVIDNGIGMDRQELIDNLGTIAKSGTKSFLTKLTEAKDGAGLIGQFGVGFYAAFMVADSITVTSRRAGSAEAWTWSSSGGAGFEIAPASEEAAARIERGTEIVLHLKPDAAKYLEAYQIERIVSEYSDNIQFPIELVPEDGEPRQINSASALWQRSKSELTEEDYKQAYKQVAGAFDEPAMTLHYRAEGRQSYAVLLFAPSTKPFDLFEPERKGRVKLYVRRVFITADADLLPPYLRFLRGVIDSEDLPLNLSREMLQNNPQLAQIRKAVTGKVIGELDSLADKQPEQFAKIWDAFGPVIKEGLYEDYERREKLLSLARFTTTAGEKRSLAQYVEAMKENQTEIYYLVGDSLDRLKANPKLESAAARGIEVLLLTDAVDAFWTSGGLDFGGKPLKSLSQGEVNFDLIPKLDADKAEDKPDEAKADEATVIAVIKDALGDRVSDVKASQRLTASASCLVAGGFGPDRELEKMLARANKGAATKPVLEINLGHPLVAALADTKADKADATDLSFLLLEQAQILDGELPEDPAAFAGRLNRLVLRGVVAHG |
| 2944 | sp|P58478|HTPG\_RICCN | MIQEKKKFDAEVGKILNLMIHSLYSNKEIFMRELISNASDACDKLRYLSQSNSELVAGDSNFKITVKVDKDHRQIIIRDNGIGMNKDDLIENLGTIARSGTANFLKSLSGDSKKDNMLIGQFGVGFYSSFMVADKVTVTSRKAGEDKVHIWESDGLGEYTVSDSDKEFTRGTEIVLHIKKEEDTFLDHFRLKHIVKSYSDHIAVPIYFFDEAGNNEIQLNSASALWTRPKSEITEEQYKEFYKSLSYAIDDPWITMHNKNEGAIEFTNLLFIPSSKTFDLFHPDRKRRVKLYIKRVFISDENIDLIPSYLRFLRGVVDSEDLPLNISRESLQHNSVLEKIKNAITKRVLGELRKKKEESPEEYNKFWANFGGALKEGLCEATTNHEKLLEVCIFRSALHNKMISLDEYIANFKEGQSTIYYLSGDNPDKLLSSPQIEGLLSKKIDVLLFTDTVDDFWVNVNSKYKEHAIKSATRSDIDVEQTTSQSEEKNTDSTKSNDEYKLLTDYFKETLGELVKEVKISKKLTSSPACLAVSDAAMDIRMERFLIEQKQIANASAKNLELNPKNKIIEKIFNDLKANNKNNEELVNLIFDQACILEGEPVADTGAFSKRLNDIVQKAIL |
| 2945 | sp|Q08275|HSP23\_MAIZE | MDARMFGLETPRVAALHHLLDVPDGDKAGGGATRTYVRDARAMAATPADVKELAGAYAFVVDMPGLSTGDIRVQVEDERVLVISGERRREEREDAKYLRMERRMGKFMRKFVLPDNADVDKVAAVCRDGVLTVTVEKLPPPEPKKPKTIEIKVA |
| 2946 | sp|B2VDG6|HSPQ\_ERWT9 | MIASKFGLGQQVRHQLYGFLGVIVDVDPEYSLADTEIDDAATSETLRGAPWYHVVMEDDDGQTVQTYLAEAQLSWEIPGEHPEQPSLDELAASIRQQLQAPRLRN |
| 2947 | sp|A8F2Y0|HTPG\_RICM5 | MIMTQEKKKFDAEVGKILNLMIHSLYSNKEIFMRELISNASDACDKLRYLSQSNSELVAGDSNFKITVKVDKDNGQIIIRDNGIGMNKDDLIENLGTIARSGTANFLKSLSGDSKKDNMLIGQFGVGFYSSFMVADKVTVTSRKAGEDKVHIWESDGLGEYTVSDSDKEFTRGTEIVLHIKKEEDTFLDHFRLKHIVKSYSDHIAVPIYFFDEAGNNEIQLNSASALWTRPKSEITEEQYKEFYKSLSYAVDDPWITMHNKNEGAIEFTNLLFIPSSKTFDLFHPDRKRRVKLYIKRVFISDENIDLIPSYLRFLRGVVDSEDLPLNISRESLQHNSVLEKIKNAITKRVLGELRKKKEESPEEYNKFWANFGGALKEGLCEATTDHEKLLEVCIFRSALHNKMISLDEYIANFKEGQSTIYYLSGDNPDKLLSSPQIEGLLSKEIDVLLFTDTVDDFWVNVNSKYKEHAIKSATRSDIDVEQTTSQSEEKNTDSKKSDDEYKLLTDYFKETLGELVKEVKISKKLTSSPACLAVSDAAMDIRMERFLIEQKQIANASAKNLELNPKNKIIEKIFNDLKANNKNNEELVNLIFDQACILEGEPVADTGAFSKRLNDIVQKAIL |
| 2948 | sp|Q5RDM4|HSP74\_PONAB | MSVVGIDLGFQSCYVAVARAGGIETIANEYSDRCTPACISFGPKNRSIGAAAKSQVISNAKNTVQGFKRFHGRAFSDPFVEAEKSNLAYDVVQLPTGLTGIKVTYMEEERNFTTEQVTAMLLSKLKETAESVLKKPVVDCVVSVPCFYTDAERRSVMDATQIAGLNCLRLMNETTAVALAYGIYKQDLPALEEKPRNVVFVDMGHSAYQVSVCAFNRGKLKVLATAFDTTLGGRKFDEVLVNHFCEEFGKKYKLDIKSKIRALLRLSQECEKLKKLMSANASDLPLSIECFMNDVDVSGTMNRGKFLEMCNDLLARVEPPLRSVLEQTKLKKEDIYAVEIVGGATRIPAVKEKISKFFGKELSTTLNADEAVTRGCALQCAILSPAFKVREFSITDVVPYPISLRWNSPAEEGSSDCEVFSKNHAAPFSKVLTFYRKEPFTLEAYYSSPQDLPYPDPAIAQFSVQKVTPQSDGSSSKVKVKVRVNVHGIFSVSSASLVEVHKSEENEEPMETDQNAKEEEKMQVDQEEPHVEEQQQQTPAENKAESEEMETSQAGSKDKKMDQPPQAKKAKVKTSTVDLPIENQLLWQIDREMLNLYIENEGKMIMQDKLEKERNDAKNAVEEYVYEMRDKLSGEYEKFVSEDDRNSFTLKLEDTENWLYEDGEDQPKQVYVDKLAELKNLGQPIKIRFQESEERPKLFEELGKQIQQYMKIISSFKNKEDQYDHLDAADMTKVEKSTNEAMEWMNNKLNLQNKQSLTMDPVVKSKEIEAKIKELTSICSPIISKPKPKVEPPKEEQKNAEQNGPVDGQGDNPGPQAAEQGTDAAVPSDSDKKLPEMDID |
| 2949 | sp|B7LNX6|HSPQ\_ESCF3 | MIASKFGIGQQVRHSLLGYLGVVVDIDPVYSLAEPSPDELAVNDELRAAPWYHVVMEDDNGLPIHTYLAEAQLSSEMREEHPEQPSMDELARTIRKQLQAPRLRN |
| 2950 | sp|A7N9V7|HTPG\_FRATF | MSEKKYTFETEVDKLLHLVIHSLYSNREIFLRELVSNSSDAIEKLRYESISNAALNEDDTDYAIRIDFDKDAKTITVSDNGIGMTEEEVIENLGTIAKSGTKKFLESLTGDKSKDNELIGQFGVGFYSSFIVADKVTVRTRKAGQDKSQATKWVSDAQNGFTVEIITKEKRGTEVILHIKKEHLDLLEYHVLKGLVNKYSDCINTPIQMKKVEYDKDGKQTVKDEYETVNNTKAIWLRSKGEVTNEEYQEFYKYISHDFADALMWIHNKVEGNLEYNSLLYIPQNKPFDFWNRDKDYGLSLYVRRVFIMENKELLPPYLRFVKGVIDSADLPLNVSREILQHNKVIDKIKKAITTKILSELKKLASKDKEKYQKFWDSFGQVLKEGVSDDYSNKEKIAGLLRFATTQSGDSKQTVSLADYISRMKESQDTIYYITSDSYKAAANNPQLEAFKKKGIEVILMTDRIDEWMMSTLTEFDDKHMKSIIKGDIDLDKFETPENKEKFEKEAKDFEKVLKEIKEVLKDKVEDVRLSKRLTDSPSCVVVNDYGMSLHMQKMMEEAGQSFMPGMGMKPILELNAEHNLVQKLKNEADTEIFADLSELLLLQAMFVEGAKIEDPMAFVKLVNKYIR |
| 2951 | sp|B1LZG0|HTPG\_METRJ | MSETIERHEFGAEVGRLLDLVVHALYSDREIFLRELVANAADAMDRRRFEALTSAASALPPDAKVRIAPDKEARTLTVSDAGIGMTKEDLATNLGTIARSGTRAFSQTLESAKAEDRPSLIGQFGVGFYSAFMVADRVTVTSRRAGSDEAWTWASEGQGSYTLEPATRAEPGTDIVLHLKADADEYLEPYRLDHLVRKWADFITVPIAVVRDGKDESANQGTALWRKAKSEVTEEQYEEFYHSIGMNFDKPWATLHWRAEGQLEFSALLFIPGSKPFQALENERQSKVRLHVRRMFITDEAELLPPWLRFVQGVVDTEDLPLNVSREMLQSTPALARIRRAVTGRVVSELTTRAKDAEGYQSFWENFGPVLKEGIYEDFERRGEIAPLLRFRSSAVEGWTSLPDYVSRMKDGQEAIYYLVADDAEALKSSPQLEGFRARGLEVLLLSDHVDAFWPDQLGTFDGKPLRSITKGGLDLSKFALEGEQPEAPEGIDAFVAAVKTALGAEVSDVRTTDRLVDSAVVLSAGSGGPDLQMQRLMRRAGRAGAGQPVLEINPRHPLIRALAAAPESEVPQAAGTLLDLARIQDGDSPRDPAAFARTVAAALAAARGA |
| 2952 | sp|Q9LNW0|HS178\_ARATH | MSLIPSFFGNNRRSNSIFDPFSLDVWDPFKELQFPSSLSGETSAITNARVDWKETAEAHVFKADLPGMKKEEVKVEIEDDSVLKISGERHVEKEEKQDTWHRVERSSGQFSRKFKLPENVKMDQVKASMENGVLTVTVPKVEEAKKKAQVKSIDISG |
| 2953 | sp|Q2T277|HSLU\_BURTA | MSTMTPAEIVSELDKHIIGQDKAKKAVAVALRNRWRRQQVAEPLRQEITPKNILMIGPTGVGKTEIARRLAKLADAPFIKIEATKFTEVGYVGRDVDSIVRDLIEISVKQTRETEMRKVRSKATDLAEDRILDVLLPQPRAVGFGASVEHANDDNNATRQTFRKRLREGQLDDKEIELDIEQPTVGMDIMAPPGMEEMTEQIRSMFSNLGSGKKQRRKVKIKEALKLLTDEEAAKMLNDEEVKTKAVQNVEQNGIVFLDEIDKITSRNHEGGGGEVSRQGVQRDLLPLVEGTTINTKYGMVKTDHILFIASGAFHLAKPSDLIPELQGRFPIRVELDSLSVKDFEAILVATDASLVKQYQALLATEDVALEFADDGIRRLAEIAYAVNEKTENIGARRLYTVIEKLLEEVSFAAGNHAGQSVTIDAAYVDRALGEVSKDEDLSRYVL |
| 2954 | sp|Q12FW8|HTPG\_POLSJ | MHKQTLSFQAEVAQLLNLVTHSLYSNPDIFLRELISNASDACDKLRFEALNDAALYEGDSELQVRLRYNKTANTLTITDNGIGLSEREAIENLGTIAKSGTRDFMAKLSGDQKNDAQLIGQFGVGFYSGFIVADRITVESRRAGLPATQGVRWSSEGTGEFEVSEMERAERGTSIILHLKDDARDYLNAWKLKGIINKYSDHISLPILMQKEEWKEGENGQPGEMVVTGEWETVNQAAALWTRAKKDITPEQYDEFYKQISYDSQAPLATTHNRVEGGTEYTQLLFIPAKAPMDLFNRDKAAGVKLYVRRVFIMDDAQALMPTYLRFVKGVVDSADLPLNVSRELLQESRAVKAIREGNTRRVLSMIEDLAANDADKFKAFYAEFGAVLKEGLGEDFANRERLAKLLRFASSTTDTVSVGFADYKARMKEGQDAIYYVTADTLAAAKSSPQLEIFRKKGIEVLLMADRVDEWALNYLHEFDGTPLQSVAKGAVDLGKLQDEDEKKAAEEAQTHFKPILDKLKEALKDKAKDVRATTRLVDSPACLVVQDGDMSTQLARMLKQAGQAVPEVKPILEVNAQHPLVKKLEAGEHFDDLAHILFDQALLAEGGMPEDPAAYVKRVNALLV |
| 2955 | sp|A4JIR3|HSLU\_BURVG | MSTMTPAEIVSELDKHIIGQSKAKKAVAVALRNRWRRQQVTEPLRQEITPKNILMIGPTGVGKTEIARRLAKLADAPFIKIEATKFTEVGYVGRDVDSIVRDLIEISVKQTRESEMRKVRSKATDQAEDRILDILLPQPRAVGFGGNADHANDDNNATRQTFRKRLREGQLDDKEIELDLEQPSAGMDIMAPPGMEEMTEQIRSMFSNLGSGKKQRRKVKIQEALKLLTDEEAAKMLNDEEVKTKAVQNVEQNGIVFLDEIDKITSRNNEGSGGEVSRQGVQRDLLPLVEGTTVNTKYGMVKTDHILFIASGAFHLAKPSDLIPELQGRFPIRVELDSLSVEDFESILVATDASLVKQYQALLATEDVQLDFAADGIRRLAEIAYAVNEKTENIGARRLYTVIEKLLEEVSFSAGNHAGERVTIDAQYVDRALGEVSQDEDLSRYVL |
| 2956 | sp|B2TTS8|HSPQ\_SHIB3 | MIASKFGIGQQVRHSLLGYLGVVVDIDPVYSLSEPSPDELAVNDELRAAPWYHVVMEDDNGLPVHTYLAEAQLSSELQDEHPEQPSMDELAQTIRKQLQAPRLRN |
| 2957 | sp|P37899|HSP70\_PYRSA | MENKIEGVAIGIDLGTTYSCVGVWLHDRVEVIANDQGNRTTPSYVAFTETERLIGDSAKNQVAMNPDNTVFDAKRLIGRRFQDPAVQEDVKPFPFKVICKDGDKPAVEVKYKGETKIFAPEEISSMVLLKMKEIAESFLGKEVKNAVITVPAYFNDSQRQATKDAGAITGLNVLRIINEPTAAAIAYGLDKKTSGSKSERNVLIFDLGGGTFDVSLLTIEEGIFEVKATAGDTHLGGEDFDSRLVNFFVSEFKRKYKKDVTSNARSLRRLRTACERAKRTLSSGTQTTVEIDSLIDGIDYYASITRAKFEELCMDLFRGTSEPVEKVLRDSKISKSEIHDVVLVGGSTRIPKVQQLLIDYFNGKELCKNINPDEAVAYGAAVQAAILAGDTSEKMDLLLLDVSPLSLGLETAGGVMTVLIKRNTTIPTKKTQVFSTYADNQPGVLIQVFEGERSRTKDNNILGKFELTGIPPAPRGVPQIEVTFDIDANGILNVSASDKSTGKSNKITITNDKGRLSKEEIERMVEEAEKYKTEDEKLDKKLEAKNSLENYAYNIRNTVRDEKLKEKIQEEDKKSIEEKVKEVLEFIETNEDLEKEEYEEKEKELKNFANPIISKLYQQGSVPDMGNFSTGQNEQDDNANMGPKIEEVG |
| 2958 | sp|A3QF50|HTPG\_SHELP | MSHQETHGFQTEVKQLLNLMIHSLYSNKEIFLRELVSNAADAADKLRYEALTKDELYEGDGELRVRVSADSEKGTVTIEDNGIGMTRDGVIEHLGTIAKSGTAEFFKNLSGDESKDSQLIGQFGVGFYSAFIVADKVTVRTRAAGHAADEAVQWESAGEGEFTVENIVKESRGTEIILHLREEEKEFASDYRLRSIITKYSDHISVPVEMWQEGTPAQEATEEGGEAIPATEGHWKAMNKATALWTRNKSDVTDEEYQEFYKHISHDFADPLLWSHNRVEGKQEYTSLLYIPSKAPWDLWNRDRKHGLKLFVQRVFVMDDAEQFMPSYLRFVQGLIDSNDLPLNVSREILQDNKITTALRTAVTKRVLGMLEKLAKNDPEKYQTFWAEFGQVLKEGPAEDFANKEKIAGLLRFASTHTNEAAHTVSLSDYVERMKEGQSKIYYIVADSHEAAANSPHLELLRKKGIEVLLMSERIDEWLINHLSEFDGKQLHSVTRGDLELGELEDAAEKEAQEKLETESEGLVKRVKEVLGDKVAEVKVTSRLTDTPACVVAGAGEMSSQMIKLMQAAGQAVTESKPVFELNPEHPLVKRLDTEQDEEVFGQWAELLLQQAQLSEKGSLADPSAFIKLMNKMLLASVK |
| 2959 | sp|Q1CGL7|HSPQ\_YERPN | MIASKFGIGQQVRHSLHGYLGVVIDIDPEYSLAPPEPDEVANNKTLRSSPWYHVVIEDDDGQPVHTYLAEAQLTYEDVDAHPEQPSLDELAASIRHQLQAPHLRN |
| 2960 | sp|Q9FHQ3|HS157\_ARATH | MADRGIFLYPFRRFQEWSRSTALIDWMESNNSHIFKINVPGYNKEDIKVQIEEGNVLSIRGEGIKEEKKENLVWHVAEREAFSGGGSEFLRRIELPENVKVDQVKAYVENGVLTVVVPKDTSSKSSKVRNVNITSKL |
| 2961 | sp|Q02028|HSP7S\_PEA | MASSAQIHGLGTASFSSLKKPSSISGNSKTLFFGQRLNSNHSPFTRAAFPKLSSKTFKKGFTLRVVSEKVVGIDLGTTNSAVAAMEGGKPTIITNAEGQRTTPSVVAYTKNGDRLVGQIAKRQAVVNPENTFFSVKRFIGRKMSEVDEESKQVSYRVIRDDNGNVKLDCPAIGKSFAAEEISAQVLRKLVDDASKFLNDKVTKAVVTVPAYFNDSQRTATKDAGRIAGLEVLRIINEPTAASLAYGFERKNNETILVFDLGGGTFDVSVLEVGDGVFEVLSTSGDTHLGGDDFDKRVVDWLAGDFKRDEGIDLLKDKQALQRLTETAEKAKMELSSLSQTNISLPFITATADGPKHIETTLTRAKFEELCSDLLDRLRTPVENSLRDAKLSIKDIDEVILVGGSTRIPAVQELVKKLIGKDPNVTVNPDEVVALGAAVQAGVLAGDVSDIVLLDVSPLSLGLETLGGVMTKIIPRNTTLPTSKSEVFSTAADGQTSVEINVLQGEREFVRDNKSLGSFRLDGIPPAPRGVPQIEVKFDIDANGILSVAAIDKGTGKKQDITITGASTLPGDEVERMVSEAERFSKEDKEKREAIDTKNQADSVVYQTEKQLKELGEKVPAPVKEKVEAKLGELKEAITGGSTQTIKDALAALNQEVMQLGQSLYNQPGAAGQAGPTPPGSESGPSESSGKEGPEGDVIDADFTDSK |
| 2962 | sp|Q8PJK3|HTPG\_XANAC | MTVETDKQTLGFQTEVKQLLQLMIHSLYSNKEIFLRELVSNAADAADKLRFEALVKPELLEGSGELRIRVDYDKDARTVTIDDNGIGMSREDAVSHLGTIAKSGTADFLKHLSGDQKKDANLIGQFGVGFYSAFIVADQVDVYSRRAGLPASEGVHWSSRGEGEFEIASVDKPERGTRIVLHLKEGEESFADGWTLRGILKKYSDHIGLPIEMRKEHYGEAADKPAEPEWEAVNRASALWTRPKSEIKDEEYQEFYKHVAHDAGNPLAWSHNKVEGKLEYTSLLFVPGRAPFDLYHRDSAKGLKLYVQRVFIMDQAEQFLPLYLRFIKGVVDSSDLSLNVSREILQSGPVVDSMKSALTKRSLDMLEKLAKDKPDDYATFWRNFGQALKEGPAEDYANREKIAGLLRFSSTHDTTGAQSVGLADYVGRLADGQDKLYYLTGESYAQIKDSPHLEVFRKKGIEVLLLTDRIDEWLMSYLTEFDGKSFVDVARGDLDLGKLDSEEDKKAQEEVAKSKEGLASRIKAALGDDVAELRVSHRLTDSPAILAIGQGDLGLQMRQLLEASGQAVPESKPVFEFNPTHPLIEKLDAEQDMDRFGDLSRVLFDQAALAAGDSLKDPAAYVRRLNKLLLELSA |
| 2963 | sp|P58480|HTPG\_SALTY | MKGQETRGFQSEVKQLLHLMIHSLYSNKEIFLRELISNASDAADKLRFRALSNPDLYEGDGELRVRVSFDKDKRTLTIADNGVGMNRDEVIDHLGTIAKSGTKSFLESMGSDQAKDSQLIGQFGVGFYSAFIVADKVTVRTRAAGDKPENGVFWESAGEGEYTVADITKNDRGTEITLHLREGEDEFLDDWRVRSIISKYSDHIALPVEIEKREEKDGETVISWEKINKAQALWTRNKSEIKDDEYNEFYKHIAHDFTDPLTWSHNRVEGKQEYTSLLYIPSQAPWDLWNRDHKHGLKLYVQRVFIMDDAEQFMPNYLRFVRGLIDSNDLPLNVSREILQDSTVTRNLRSALTKRVLQMLEKLAKDDAEKYQTFWKQFGLVLKEGPAEDHANQEAIAKLLRFASTHTDSSAQTVSLEDYVSRMKEGQEKIYYITADSYAAAKNSPHLELLRKKGIEVLLLSDRIDEWMMNYLTEFDGKAFQSVAKADESIEKLADEVDENAKEAEKALEPFVERVKTLLGDRVKDVRLTHRLTDTPAIVTTDADEMSTQMAKLFAAAGQSVPEVKYIFELNPDHVLVKRTADTKDEAQFKEWVELLLDQALFAERGTLEDPNQFIRRMNQLLVS |
| 2964 | sp|Q1CU15|HSLU\_HELPH | MSKLNMTPREIVAYLDEYIIGQKEAKKSIAIAFRNRYRRLQLEKSLQEEITPKNILMIGSTGVGKTEIARRIAKIMELPFVKVEASKYTEVGFVGRDVESMVRDLVNNSVLLVENEHKEKLKDKIEEAVVEKIAKKLLPPLPNGVSEEKKQEYANSLLKMQQRIVQGELDSREIEIEVRKKSIEIDSNVPPEILRVQENLIKVFHKEQDKVKKTLSVKEAKEALKAEISDTLLDSEAIKMEGLKRAESSGVIFIDEIDKIAVSSKEGSRQDPSKEGVQRDLLPIVEGSVVNTKYGSIKTEHILFIAAGAFHLSKPSDLIPELQGRFPLRVELENLTEEIMYMILTQTKTSIIKQYQALLQVEGVGIAFEDDAIKELAKLSYNANQKSEDIGARRLHTTIEKVLEDISFEAEDYLGQKVTITKELVQSKLEDLVADENLVKYIL |
| 2965 | sp|Q162C5|HTPG\_ROSDO | MTDASVKETFSFQTEVGQLLDIVAGSLYSNREIFLRELVSNASDACDKLRYEALTNPSLAQNADEFAISLAVDKKAKTLSVSDNGIGMNHGDLLDTLGTIARSGTGAFLDALKSEEKGDIGLIGQFGVGFYSAFMVAERVDVLTRKAGEDESWLWSSDGKGEFSIEPGERAQSGTTVTLHLKKDAKEFLEESRIRHIIKTYSEHISFPVRLDTEALNSASAIWTRAPKEITEEQHTEFYHHVSNAFDKPWHVLHNRVEGTVNHTSLLYVPSMAPFDLYEAERKSHVKLYVNRVFISDNTRDLIPAYLRFLRGVVDSQDLSLNVSREMLQSDPKLAKIKTSVTKKVLSELKKKAKKSPEDYAGFWQNFGPVLKEGLIEDPALRDRILEICRFSSTKSGDVTSLADYISRCKEGQDAIYYIAGDDARKIAQSPHLEGFRAKDVEVLLLSDHVDEFWLQHITEFEGKPFKSITRGAADLDKINEGEKADDAEEEAQAPDLNDLIAALKLELGASVKDVRPSKRLTDSPVCLIADEGDIDVNLERMLKRHGQLQDAMPRVLELNPDHRIITKLAERAKGSAAASDTLLKDAAHLLLDQARIADGETPADPAEFVRRLGSVMDSAL |
| 2966 | sp|Q9FGM9|HS235\_ARATH | MASSSALALRRLLSSSTVAVPRALRAVRPVAASSRLFNTNAARNYEDGVDRNHHSNRHVSRHGGDFFSHILDPFTPTRSLSQMLNFMDQVSEIPLVSATRGMGASGVRRGWNVKEKDDALHLRIDMPGLSREDVKLALEQNTLVIRGEGETEEGEDVSGDGRRFTSRIELPEKVYKTDEIKAEMKNGVLKVVIPKIKEDERNNIRHINVD |
| 2967 | sp|P38529|HSF1\_CHICK | MEGPGAAAAAVGAGPGGSNVSAFLTKLWTLVEDPETDPLICWSPSGNSFHVFDQGQFAKEVLPKYFKHNNMASFVRQLNMYGFRKVVHIEQGGLVKPEKDDTEFQHPYFIRGQEHLLENIKRKVTSVSSIKNEDIKVRQDNVTKLLTDIQVMKGKQESMDSKLIAMKHENEALWREVASLRQKHAQQQKVVNKLIQFLISLVQSNRILGVKRKIPLMLNDSSSAHSMPKYSRQYSLEHVHGSSPYAASSPAYSGSNIYSPDSSTNSGPIISDVTELAQSSPSASPSGSLDERSSPVVRIKEEPPSPSRSPKENEPSTTTAAAGNSTEQPQPQEKCLSVACLDKNELNDHLDTIDSNLDNLQTMLSTHGFSVDTTALLDLFSPSMTVTDMNLPDLDSSLASIQDLLSSQEQQKPSEADAAAADTGKQLVHYTAQPLFLVDSSAVDVGSGDLPIFFELGEGSYFTDGDEYNEDPTISLLSGTEQPKPKDPTVS |
| 2968 | sp|A8H956|HSLU\_SHEPA | MSEMTPREIVHELDSHIIGQQKAKRSVAIALRNRWRRMQLAADLRQEVTPKNILMIGPTGVGKTEIARRLARLAKAPFIKVEATKFTEVGYVGKEVEQIIRDLTDSAIKLTREEQIKKCKFRAEEAAEERILDALLPKPKEDWDSEKSDGSATRQIFRKKLREGQLDDKEIEIDVSAPQAGIEIMSPPGMEEMTNQLQSMFQNMGPGASKRRKMPIKEAYKLLIEEEASKLINQEDLKEQAIELVEQHGIVFLDEIDKICKRGESSGPDVSREGVQRDLLPLVEGCTVNTKHGMVKTDHILFIASGAFQMSKPSDLIPELQGRLPIRVELDALTAGDFKRILTEPHASLTEQYIALMGTEGVTIEFTEDGIDSIAEAAWQVNERTENIGARRLHTVMERLMEELSYEASDKSGSVTVIDAAYVKASLDNLVQDEDLSRYIL |
| 2969 | sp|C0Q441|HSLU\_SALPC | MSEMTPREIVSELNKHIIGQDNAKRSVAIALRNRWRRMQLDEELRHEVTPKNILMIGPTGVGKTEIARRLAKLANAPFIKVEATKFTEVGYVGKEVDSIIRDLTDAAVKMVRVQAIEKNRYRAEELAEERILDVLIPPAKNNWGQAEQQQEPSAARQTFRKKLREGQLDDKEIEINLAAAPMGVEIMAPPGMEEMTSQLQSMFQNLGGQKQKPRKLKIKDAMKLLVEEEAAKLVNPEELKQDAIDAVEQHGIVFIDEIDKICKRGETSGPDVSREGVQRDLLPLVEGCTVSTKHGMVKTDHILFIASGAFQVAKPSDLIPELQGRLPIRVELQALTTSDFERILTEPNASVTVQYKALMATEGVNIEFTDSGIKRIAEAAWQVNETTENIGARRLHTVLERLMEEISYNASDLHGQNITIDAEYVSKHLDALVADEDLSRFIL |
| 2970 | sp|Q9LVW2|HSFA9\_ARATH | MTAIPNVVDIESSSSSLCQETATETVTVERGSSDSSSKPDDVVLLIKEEEDDAVNLSLGFWKLHEIGLITPFLRKTFEIVDDKVTDPVVSWSPTRKSFIIWDSYEFSENLLPKYFKHKNFSSFIRQLNSYGFKKVDSDRWEFANEGFQGGKKHLLKNIKRRSKNTKCCNKEASTTTTETEVESLKEEQSPMRLEMLKLKQQQEESQHQMVTVQEKIHGVDTEQQHMLSFFAKLAKDQRFVERLVKKRKMKIQRELEAAEFVKKLKLLQDQETQKNLLDVEREFMAMAATEHNPEPDILVNNQSGNTRCQLNSEDLLVDGGSMDVNGRIEIE |
| 2971 | sp|P36182|HSP82\_TOBAC | EFISYPIYLWTEKTTEKEISDDEDDEPKKDEEGAVEEVDEDKEKEKGKKKKIKEVSHEWQLINKQKPIWLRKPEEITKDEYASFYKSLTNDWEEHLAVKHFSVEGQLEFKAILFVPKRAPFDLFDTRKKMNNIKLYVRRVFIMDNCEELIPEYLGFVKGVVDSDDLPLNISREMLQQNKILKVIRKNLVKKCIEMFNEIAENKEDYNKFYEAFSKNLKLGIHEDSQNRAKLADLLRYHSTKSGDEMTSLKDYVTRMKEGQKDIYYITGESKKAVENSPFLERLKKKGYEVLYMVDAIDEYAVGQLKEYDGKKLVSATKEGLKLDDDSEEEKKKKEEKKKSFENLCKIIKDILGDKVEKVVVSDRIVDSPCCLVTGEYGWTANMERIMKAQALRDSSMSSYMSSKKTMEINPDNGIMEELRKRAEADKNDKSVKDLVLLLFETALLTSGFSLDDPNTFAARIHRMLKLGLSIDEEEEAVEDADMPALEETGEESKMEEVD |
| 2972 | sp|Q2NAJ6|HRCA\_ERYLH | MAVPPVTELTDRARAIFQLVVEGYLESGQPVGSKTLSQEQSLDLSPASIRSVLADLESIGLLAAPHTSAGRMPTETGLRLFVDGMMQVAEPTRAEREAIAQRLKRSGPIEQALEATSSMLSDLSGAAGMVMVPSREPRLAQISLVPLGQGKALAVLVGEDGAIENRVIETGDTPAHVLEQVSNFITARLAGRTLAEATAAMRKEIADGKSALDTASQNLVERGLAVWTEDAAERPVLIVRGQANLLDESALEDLDRVRSLLDDLENKQSVAELLETARDAEATRIFIGSENRLFALSGSSVIASPYRDREGKVVGVLGVIGPTRLNYARVVPMVDFTARSLGKLIG |
| 2973 | sp|B0VNV8|HSCA\_ACIBS | MPLLQIAEPGQSSAPHQHRIAIGIDLGTTHSLAATVLSGKPKVLNDVQNRRLLPSIVHYGDNTTHYGEEAKPFIIADPKNTIVSVKRFMGRSKADIKFQHPYELVGSEKNEMPAFETRAGRKTPVEISAEILKQLKDRAEDSLQNPVNGAVITVPAYFDEAQRQATRYAAQLAGLNILRLLNEPTAAAVAYGLDQESNLATDRNYVIYDLGGGTFDVSILRFSQGVFEVLATGGHTALGGDDLDRLIVKWAKKQLNIDVLSDEDYAVFIVAARQAKEQLSTQDSVELKLLEATLTLDRPTFESIIQVALDKTISVCKRVLRDAKLELTDIQNVVLVGGSTRSYAVQKAVREVFAQEPLCTINPDEVVAIGASITANQLIGNSQDGSLLLDVTPLSLGLETMGGLVERLISRNTAIPVARRQEFTTYQDGQTAMLIHVVQGERDLVEHCRSLGRFVLHGIPPMTAGQARIEVTFQVDADGLLTVSAREATSGVQAHIDIKPSYGLSEADTERLLIEGFQHAEEDKNLRHLKETKVEAERELEALEQALKVDADLLDEKQLEALNSAKESLKAQLEGSDIQAIEQAVQQLKVHSDAFAALRMNRHIDHALKGTKLDDWSKSN |
| 2974 | sp|A1JI08|HSLU\_YERE8 | MSEMTPREIVSELDSYIIGQDKAKRAVAIALRNRWRRMQLNEELRHEVTPKNILMIGPTGVGKTEIARRLAKLANAPFIKVEATKFTEVGYVGKEVDSIIRDLTDAAVKMVRHQSIEKMRYRAEELAEERILDVLIPPAKNNWGQPEETQEPSPTRQAFRKKLREGQLDDKEIEIDLAAAPVGVEIMAPPGMEEMTNQLQSMFQNIAGQKQKPRKIKIKEAFKLLIEEEAAKLVNPEELKQQAIDAVEQHGIVFIDEIDKICKRGQTSGPDVSREGVQRDLLPLVEGCTVSTKHGMVKTDHILFIASGAFQVSSPSDLIPELQGRLPIRVELQALTTDDFERILTEPSASLTEQYKALMATEGVTVEFTREGIRKIAEAAWQVNERTENIGARRLHTVLERLMEDISYDASESNGQSITIDAAYVGKHLDELVADEDLSRFIL |
| 2975 | sp|B0TVV4|HSLU\_SHEHH | MSEMTPREIVHELDSHIIGQQKAKRSVAIALRNRWRRMQLAADLRQEVTPKNILMIGPTGVGKTEIARRLARLAKAPFIKVEATKFTEVGYVGKEVEQIIRDLTDSAIKLTREEQIKKCKFRAEEAAEERILDALLPKPKEDWDSEKSDGSATRQIFRKKLREGQLDDKEIEIDVSAPQAGIEIMSPPGMEEMTNQLQSMFQNMGPGASKRRKMPIKEAYKLLIEEEASKLINQEDLKEQAIELVEQHGIVFLDEIDKICKRGESSGPDVSREGVQRDLLPLVEGCTVNTKHGMVKTDHILFIASGAFQMSKPSDLIPELQGRLPIRVELDALSAGDFKRILTEPHASLTEQYIALMGTEGVTIEFTEDGIDSIAEAAWQVNERTENIGARRLHTVMERLMEELSFEASDKSGSVTVIDAAYVKASLDNLVQDEDLSRYIL |
| 2976 | sp|Q2GEM5|HSLV\_NEOSM | MGTGFHGTTILSIRKDDKVVMIGDGQVTMGNAVVVKSTAQKVKRLSNGKIISGFAGSTADAFTLFERLESKLEAHPGQLLRACVELAKDWRTDKFLRRLEAMMIVADARGTLILNGAGDVIEPEDSVAAIGSGGNYALAAAKALIVHASDLDAFQIAEAAMKIAAKICVFTNENFTVEVIDCASKECS |
| 2977 | sp|C3PMP2|HSCA\_RICAE | MQIIEIREPEQADFKQERQIAVGIDFGTTNSLIAIAANRQVKVIKSIDDKELIPTTIDFTSNNFTIGNNKGLRSIKRLFGKTLKEILNTPALFSLVKDYLDVNSSELKLNFANKQLRVPEIAAEIFIYLKNQAEEQLKTNLTKAVITVPAHFNDAARGEVMLAAKIAGFEVLRLIAEPTAAAYAYGLNKNQKGCYLVYDLGGGTFDVSILNIQEGIFQVIATNGDNMLGGNDIDVVITQYLCNKFDLPNSIDTLQLAKKAKETLTYKDSFNNDNVSINKQTLEQLILPLVERTINIAQECLEQAGNPNIDGVILVGGATRIPLIKDELYKAFKIDILSDIDPDKAVVWGAALQAENLIAPHTNSLLIDVAPLSLGMELYGGIVEKIIMHNTPIPISVVKEFTTYVDNQTGIQFHILQGEREMAADCRSLARFELKGLPPMKAGYIRAEVTFSIDADGILSVSAYEKISNTSHAIEVKPNHGIDKTEIDIMLENAYKNAKIDYTTRLLQEAVIEAEALIFSIERAIAELTTLSSESEISIINSLLDNIKEAVHARDWILINNSIKEFKSKIKKSIDTKFNIIINDLLKGKNINQIK |
| 2978 | sp|Q88VL8|HRCA\_LACPL | MITLTERQSLILKAIVRDYTEGGNPVGSKSLVQELPIKVSSATIRNEMARLEDLGLIVKTHLSSGRIPSIKGYRYYVDHILKPEKVDGKDLKVIQHSLGGEFHKIDEIVAQSADILSQLTSYTTFTLRPELKDSRLSGFRLVPLGNHQVMAILVTNNGDVENQTFTIPSDITGDELEPVVRFIDDQLVGLPLQDVLRQLTHEIPLKLAQYLQDPDGFLDIFGSVLSKAASERFYVGGKLNLFNYTDQQSPKELQSLYSLLDQTDRLANVIGPPGQRIQVRIGNEITNDLLKNYSLITATYDVDQHGQGVIALLGPTAMPYSRMIGLMGAFQRELARKLLDYYRYFDE |
| 2979 | sp|Q3K3T4|HRCA\_STRA1 | MITQRQNDILNLIVELFTQTHEPVGSKALQRTIDSSSATIRNDMAKLEKLGLLEKAHTSSGRMPSPAGFKYFVEHSLRLDSIDEQDIYYVIKAFDFEAFKLEDMLQKASHILSEMTGYTSVILDVEPARQRLTGFDVVQLSNHDALAVMTLDESKPVTVQFAIPRNFLTRDLIAFKAIVEERLLDGSVMDIHYKLRTEIPQIVQKYFVTTDNVLQLFDYVFSELFLETVFVAGKVNSLTYSDLSTYQFLDNEQQVAISLRQSLKEGEMASVQVADSQEAALADVSVLTHKFLIPYRGFGLLSLIGPIDMDYRRSVSLVNIIGKVLATKLGDYYRYLNSNHYEVH |
| 2980 | sp|B8DKI5|HRCA\_DESVM | MPSLGQRETQVLATIIESYIASASPVGSRAVAEHSGLHLSPASMRATMSDLTDLGYLEQPHTSAGRVPTARAFRLYVDSLLRPLPLGSAERDAIADELSRQELEISGILRRAANLLSGHARQLGMVVAPSEDEARWRSIEFAPAAEGLVLAVLMLEGGLVRTRTVRVDERYGQDELVRFGNYLNEHFRGLSLSEARDRIGHELARAGSRLEEMCVRALALSRRAVEHMGDDRELIVNGTLNMLDHAEFTDVGRMRDLLAAIEERSRLLELLDRTLSERDVRITFCQDVADGAPDGLRGCSVISAAYGGDTPRGVVSVVGPLRMDYAKIVPVVQCVSRALTQLFRERFAAAPCRLP |
| 2981 | sp|Q04LY2|HRCA\_STRP2 | MVTERQQDILNLIIDIFTKTHEPVGSKALQESINSSSATIRNDMAELEKQGLLEKAHTSSGRMPSVAGFQYYVKHSLDFDRLAENEVYEIVKAFDQEFFKLEDILQEAANLLTDLSGCTVVALDVEPSRQRLTAFDIVVLGQHTALAVFTLDESRTVTSQFLIPRNFLQEDLLKLKSIIQERFLGHTVLDIHYKIRTEIPQIIQRYFTTTDNVIDLFEHIFKEMFNENIVMAGKVNLLNFANLAAYQFFDQPQKVALEIREGLREDQMQNVRVADGQESCLADLAVISSKFLIPYRGVGILAIIGPVNLDYQQLINQINVVNRVLTMKLTDFYRYLSSNHYEVH |
| 2982 | sp|Q2NK67|HRCA\_AYWBP | MMNMLSDRKKLILKAVVENYSQKRQPVGSKMLTYLPYLKFASATIRYDMVQLEKEGFLQKNHTSSGRVPSFKGYVYYLNHLLTRDHDVACMFESIDKVIQKKRFCKGQVIKEALNLLNNLTNYTTMAIGSDIFNNSKITKIDFIPLNSAQAVILIITDKGNVQHQNISLEQTKEISIYDLKDVVQVVNDLLKDKFLSEAAHIIQSDFFKKTIAKYICFQEQLIALFMEAFSSFASENLYFSGVSKMLEKPELNNPEIIKKFMGLLERKELLKIMLNQDSLSFKFSDGLQLTPLKDCMILSIPFDVNPNEKGRIAVVGPSWMKYPKVIPILEYLAVHLSKLNDQE |
| 2983 | sp|A9NFN6|HRCA\_ACHLI | MISSRQKLILKAIIDMYSEKGEPVGSKALMALPYLNYSSATLRYDMAVLEELGFLEKMHTSSGRVPSERGYRYYIEHLVTRDNDVTEVFPLIDEVFSKKALGREHTIKEALKLLTDLTSYTAVAVGPDILQSHIKRIEMVPLGLKDAVMLIVTDTGHVQHQQIHISDDMRMDDIKEVIHTLDDLLKNRTLEDALKVLKEEYAISELNQFMSYQSQIIDSFIEAFSKFASDSFYLSGMTNAFEQPEFNDVSHMKRFIDMMDRREIVKLIGTAEGISVRFGSDMEIKPLNQMTIISIPYQIDSKQKGTIALVGPSRMSYQKVIPLLEYIAANLAKLYKDNNKET |
| 2984 | sp|B2K7E5|IBPA\_YERPB | MRNSDLAPLYRSAIGFDRLFNLLESGQNQSNGGYPPYNVELVDENNYRIAIAVAGFAEQELEITTQDNLLIVRGSHANEPAQRTYLYQGIAERNFERKFQLAEHIKIKGANLVNGLLYIDLERLVPESLKPRRIEIK |
| 2985 | sp|B6I3R9|IBPB\_ECOSE | MRNFDLSPLMRQWIGFDKLANALQNAGESQSFPPYNIEKSDDNHYRITLALAGFRQEDLEIQLEGTRLSVKGTPEQPKEEKKWLHQGLMNQPFSLSFTLAENMEVSGATFVNGLLHIDLIRNEPEPIAAQRIAISERPALNS |
| 2986 | sp|Q9SLK0|ICDHX\_ARATH | MEFEKIKVINPVVEMDGDEMTRVIWKFIKDKLIFPFLELDIKYFDLGLPNRDFTDDKVTIETAEATLKYNVAIKCATITPDEARVREFGLKKMWRSPNGTIRNILNGTVFREPIICRNIPRLVPGWTKPICIGRHAFGDQYRATDLIVNEPGKLKLVFEPSGSSQKTEFEVFNFTGGGVALAMYNTDESIRAFAESSMYTAYQKKWPLYLSTKNTILKIYDGRFKDIFQEVYEANWRSKYEAAGIWYEHRLIDDMVAYAMKSEGGYVWACKNYDGDVQSDFLAQGYGSLGMMTSVLVCPDGKTIEAEAAHGTVTRHYRVHQKGGETSTNSIASIFAWSRGLAHRAKLDSNAALLSYTEKLEAACMGTVESGKMTKDLALLIHGAKVRRDQYVNTEEFIDAVAWELKRRLLGNNSRL |
| 2987 | sp|P0A9W6|IBAG\_ECOLI | MENNEIQSVLMNALSLQEVHVSGDGSHFQVIAVGELFDGMSRVKKQQTVYGPLMEYIADNRIHAVSIKAYTPAEWARDRKLNGF |
| 2988 | sp|Q0JFZ0|IRO2\_ORYSJ | MEQLFVDDPAFASSMSSLEADIFSGAGQLPSSPWLDLDLDDDVQDLSMAPTTANAVSSGYGSGGSGSHRKLSHNAYERDRRKQLNELYSSLRALLPDADHTKLSIPTTVSRVLKYIPELQKQVENLERKKKELTTTSTTNCKPGVLGSQLMSEGMAPIVSATCINDMEIMVQVSLLSNVAGSVLPLSKCIKVLENEGLHFISSSTSSGFGNRTFYSIHLQRSEGTINEECPAFCERLEKVVRNKAKL |
| 2989 | sp|O44408|KGB1\_CAEEL | MEVDLPVHNEYDASRFHQVTIRDPIAGADSTFTIPTRYVNLSFLNAGAQGTVVMADDLVTTQRVAIKKMQQPFVMTMSAKRAYREFILLTTIKHPNIIRLLNAFTPDTSLSTFREVYLVMELMTHNLHEVIHRLRLDHKTLSFFVYQSLCAIKHLHNSGVIHRDLKPSNIVVNDRCVLKVLDFGLARKKNVDTSMRMSDYVVTRYYRAPEVILGLPYSEKVDIWSVGCIFAEMINHTVLFPGKDRIDQWTKIYSVLGTPDDHFISQLGQSAAMYVRSLPRHQARAFSEIVPDTNFLPETENPRVHLTPHVARDLLFNMLKINPEERYSVEDALNHPYVKLWFKDDEVNAPASENRYDQEIDFADKTLIEWKELIFNEVQRYQADHDIFTG |
| 2990 | sp|Q6ME13|LON\_PARUW | MLEEPIDALETEFENALNSLEDNQLSKINGQLPEQVHVFPLLRRPFFPGMAAPLVIEPGPFYEVLKVVAKSDHKCVGLVLTRSEQAEIYKVGFSDLYQIGVLARVLRIIPMEQGGAQVILNMERRIKIEKPTSETKTLKANVSYIEDDPILTTELKAYAISILSTIKELLKLNPLFKEELQIFLGHSDFTEPGKLADFAVALTTASREELQDVLETFDIRKRIDKALILLKKELDISILQHNINQKIEATINKSQKDFFLREQLKTIKKELGIERDDKSLDREKFEARLKERVVPSDVMKVITEELEKLSVLDMQSAEYSVVRGYLDWLTTIPWGIYSQENHNLEEAEKILAHDHYGLEDIKQRILEFIGVGKLAKGVRGSIICLVGPPGVGKTSIGKSIARALNRKFYRFSVGGMRDEAEIKGHRRTYVGAMPGKMIQALKYCQTMNPVIMLDEVDKMGKSFQGDPASALLEVLDPEQNAEFLDHYLDVRCNLSEVLFIVTANVLDTIPEPLKDRMDILRLSGYIMQEKLEIAKKYLIPRNRKEMGLKALEVSFTQEALRSIINGYARESGVRNLENLLKKILRKLAVNIVREQEEHDKEQAKKKKSSRSKKPIAFVPTKHSITPSNLKDFLGKPVFTSDRFYERTPVGVCMGLAWTAMGGATLYIESIKVAGEKTVMKLTGQAGDVMKESAEIAWSYVHSSIHKYAPGYTFFEKSQVHIHIPEGATPKDGPSAGITMVTSLLSLILDTPVLDNLGMTGELTLTGRVLPIGGVKEKLVAARRSGLKVLIFPKDNLRDYEELPEYIRKGITVHFVDHYDQVFKISFPNKHQMKLC |
| 2991 | sp|Q89A99|LON\_BUCBP | MNPERSEYIEIPVLPLRDVVIYPYMVIPLFVGRDKSIKCIEASMNKNKKIMLVTQKEAEIDEPTDNDLFTIGTTASILQMLKLPDGTVKVLVEGLQRAKVKKINNENGYFTAQIQLICTPEITEKEQSILIRTTLNQFENYVKFNKKISPEILNSLNNITNASQLSDMIAIHMPLKLSEKQSILETYNTNERLERLMAIMESEIDLLQVEKRIRNRVKKQMEKSQREYYLNEQMKAIQKELGEMDETLDEHEILKRKITTIKMPKEAQEKMASELHKLKMMSPMSAEATVVRSYIDWMIQIPWNIRSKVKKNLTQAQKILDSDHFGLDKVKERILEYLAVQSRINTVKGPILCLVGPPGVGKTSLGQSIARATGRKYIRMALGGIRDEAEIRGHRRTYIGSMPGKIIQKMAKVGVKNPLFLLDEIDKMSCDIRVDPASALLEVLDPEQNVAFNDHYLEVDYDLSNVMFIATSNSTNIPAPLLDRMEIIRISGYTEFEKLNIAKSYLKPKQIKRNALKSNELTIEDSVVTNIIRYYTREAGVRNLERELSKICRKCVKNLILNKSLKKIKITTDNLHDYLGIKKYDFGKTNYKNQIGQVIGLAWTEVGGELLTIEAACISGKGKLIYTGSLGEVMQESIQAALTVVRSQANKLGIKKNFYEKNDIHVHVPEGATPKDGPSAGIAMCTAIVSCLTGIPVKSDIAMTGEITLRGQILTIGGLKEKLLAAHRGGIKKVLIPYDNEKDLQEIPKTILKGLFVHPVKHIKEVLNLSLENTPYFSSK |
| 2992 | sp|Q11QT1|LON\_CYTH3 | MLDTEPVDMIPLITPEEEAEMDKEEFPSVLPILPVRNIVLFPGVVLPITVGRQKSIRLVKKFYKGDRTIGVVAQENQKSEEPSFQDIFKVGTVAKILRMFVLPDGNTTIIIQGKRRFKIEEQVQDEPFMQAKVSMLKDIHPDMSKKEVKALLQSVKESATKILKMNPEIPQDAQIAINNIESENFLTHFLSSNINAELKDKQKLLEFDDAVERATWLLQLMDKDIQMLEIKREIHTKVHTDIDQQQRDYFLRQQIKVLQDELGDFSSEQEFERLKEKALTKKWSDKVRAHFDKEMSKLQRVNPMAPDYPVTFNYLELLVDLPWGENSTDNFDLVRAKEILDEDHFGLTKVKQRILEYLAVLKLKNNMKAPILCLYGPPGVGKTSLGKSIAKALDRKYIRMSLGGVHDESEIRGHRKTYIGAMPGKIIQGIKRSETSNPVFILDEIDKISKDFRGDPSSALLEVLDPEQNSSFMDNFLEVEYDLSKVLFIATSNALDTIQPALRDRMEIIEINGYTLEEKIQIAKKYLIPKQKEEHGLKAKDISFTDAAIVKIIEDYTRESGVRNLERKIGAVVRNIAVAIAMETAYTKKIQPAQVREILGSEDFEKDTYQQDDLAGIVTGLAWTPYGGEILTIESIISKGKGKLTLSGQLGDVMKESASAALSLLRANVDAIGIDHRVFDHFDLHVHVPAGATPKDGPSAGIALYTSLASTFTQRKIKPALAMTGEITLRGKVLPVGGIKEKILAAKRAGIKEIILSKKNKKDIEEIHPPDIADLKFHFVETADEVLAIALLKQKIKKPFNLEVPEEPKKKDK |
| 2993 | sp|Q2G0P6|MCSB\_STAA8 | MTHNIHDNISQWMKSNEETPIVMSSRIRLARNLENHVHPLMYATENDGFRVINEVQDALPNFELMRLDQMDQQSKMKMVAKHLISPELIKQPAAAVLVNDDESLSVMINEEDHIRIQAMGTDTTLQALYNQASSIDDELDRSLDISYDEQLGYLTTCPTNIGTGMRASVMLHLPGLSIMKRMTRIAQTINRFGYTIRGIYGEGSQVYGHTYQVSNQLTLGKSELEIIETLTEVVNQIIHEEKQIRQKLDTYNQLETQDRVFRSLGILQNCRMITMEEASYRLSEVKLGIDLNYIELQNFKFNELMVAIQSPFLLDEEDDKSVKEKRADILREHIK |
| 2994 | sp|Q9WTY9|MK13\_RAT | MSLIRKRGFYKQDINKTAWELPKTYLAPAHVGSGAYGAVCSAIDKRTGEKVAIKKLSRPFQSEIFAKRAYRELLLLKHMHHENVIGLLDVYTPATSVRNFQDFYLVMPFMQTDLQKIMGMEFSEEKVQYLVYQMLKGLKYIHSAGIVHRDLKPGNLAVNEDCELKILDFGLARHTDAEMTGYVVTRWYRAPEVILSWMHYNQTVDIWSVGCIMAEMLTGKTLFKGKDYLDQLTQILKVTGVPGAEFVQKLKDKAAKSYIQSLPQSPKKDFTQLFPRASPQAVDLLDKMLELDVDKRLTAAQALAHPLFEPLRDPEEETEAQQPFDDALERENLSVDEWKQHIYKEIANFSPIARKDSRRRSGMKLQ |
| 2995 | sp|Q9FL44|MPH1\_ARATH | MSNVLLSPNGYVFASPKPLGRFINSKSGGRKLFFSVVRASSDDADCNAEECAPEKEVGTVSMEWLAGEKTKVVGTFPPRKPRGWTGYVEKDTAGQTNVYSIEPAVYVAESAISSGTAGSSADGAENTAAIVAGIALIAVAAASSILLQVGKDAPTRPKAVDYSGPSLSYYINKFKPSEIVQPSTPSVTEAPPVAELETSLPETPSVAQQETSLPETMASEAQPEASSVPTTSSTS |
| 2996 | sp|Q9VET0|NPF\_DROME | MCQTMRCILVACVALALLAAGCRVEASNSRPPRKNDVNTMADAYKFLQDLDTYYGDRARVRFGKRGSLMDILRNHEMDNINLGKNANNGGEFARGFNEEEIF |
| 2997 | sp|P67431|NEMR\_ECOL6 | MNKHTEHDTREHLLATGEQLCLQRGFTGMGLSELLKTAEVPKGSFYHYFRSKEAFGVAMLERHYAAYHQRLTELLQSGEGNYRDRILAYYQQTLNQFCQHGTISGCLTVKLSAEVCDLSEDMRSAMDKGARGVIALLSQALENGRENHCLTFCGEPLQQAQVLYALWLGANLQAKISRSFEPLENALAHVKNIIATPAV |
| 2998 | sp|A1D731|NST1\_NEOFI | MVPAPHTQHSPSSTMLNSSSTTAHAAPSTNGDVHAPKDHHLSSPSDTVSAPVNRKKQKRRQKQAARLAERQLANGHVSTDDTTQNGSSHANPERYHSDDGGADGPDHEQPTNGDVYDKDGQDSMDAHVDSQNPQGPNGTESSQKSTGRKSKKKKGKKARNNSHAQGDETSTPMSTPSVSMSHPLPPPLPSHLASHNILKPAKNRSIWNTSTQEERENIKTFWLELGEEERRQLVKVEKDAVLKKMKEQQRHSCSCTVCGRKRTAIEEELEVLYDAYYEELEQYANHNQGSFEKGSPMVPPPRLYQPPLRSPGQHTRTQGQFHPSRGRIHELTEEDDDLEEDYDEEEDDGDEPYSDEELDEEDEETRAARADFFAFGNSLTVKVADDLLKNDGKHFIDMMEQLAERRMQREEDTQYGIAAAHESLHSGHNHGPFDDEDYDDEEDEDYDSQEEEDYEEDEMDAMTEEQRMEEGRRMFQIFAARMFEQRVLTAYREKVAEQRQQKLIEELMEEETRNEQRNAKKAREAQKRKDKKRLQKQAKEEERARREAEKAAEEAAAKAEQEKKLEEQRKKREEQRKKKEAERKAQEEERARKEAEKLRRQREERERQAEAERKQREEKKRREEARRKEKEERELREKKAKEERDRKAQEEQAKKDTAKGGEEAKDQEKRDDQAKRSSQQGPVPIPSNLHHLQGFSPAVAHSPHVPSATPVLPKAPTPARPRQPSQQDSHSSSPHSQAPSTDPSQASLSPRSMPVSQSSGVASGNSQQGHGLHAMLHQPQPSTPLSPLGRSIPPGFSSVNGIPPNPPGLSGMVARPPVGHDLPSYPPHSGPFISPFRGYPAPSGIPAPPGINGARPMPPGRGFPLEPGQGFAFHGQQIPGAFSTPQGGLPHRHSRQPSGSLERSPLENHAQPMPISRPSPIKRPSSTQQDQQKGGDRTTQRDVDDLSAHLGSSALLDDTDVPLSSTLSQSLPGATAPGTFPGPARASFGGPSLFPDPLSASKHANFAVSPAVSGGTWGAQIPFGTSAFPSAQTWGTGHASGWSNNAFGSGGHHRAHTSRPVAIRLLVIQACKQLNTMSPFKGADGYHDVNLVLRQVEQLRPQNEPSISLKEMLDICDTEGNTQNGGGTFSIKKDETREFVKFEPDNNSAASGHRGSIVPGEIGSPVPSSSLPAFGGIGTPSVLRQYSSPPMGF |
| 2999 | sp|Q7X8B5|ACA5\_ORYSJ | MESASSSLATSGRRRSSSGGGGGSWGSIGSAADPFDIPAKGAPVESLKKWRQAALVLNASRRFRYTLDLKREEQREEVISKIRAQAHVVRAAFRFKEAGQVHVQQKEVAAPPVDGALGFGIKEDQLTALTRDHNYSALQQYGGISGVARMLKTDTEKGISGDDSDLTARRNAFGSNTYPRKKGRSFLAFLWDACKDLTLIILMVAAAVSLALGITTEGIKEGWYDGASIAFAVLLVVVVTATSDYKQSLQFQNLNEEKQNIKLEVVRGGRRISVSIYDLVAGDVVPLKIGDQVPADGILISGHSLSVDESSMTGESKIVHKDQKSPFLMSGCKVADGYGTMLVTAVGINTEWGLLMASISEDSGEETPLQVRLNGVATFIGMVGLSVALAVLVVLLARYFTGHTYNPDGSVQYVKGKMGVGQTIRGIVGIFTVAVTIVVVAVPEGLPLAVTLTLAFSMRKMMRDKALVRRLSACETMGSATTICSDKTGTLTLNQMTVVEAYFGGKKMDPPDNVQVLSASISSLIVEGIAQNTSGSIFEPENGQDPEVTGSPTEKAILSWGLKLGMRFNDTRTKSSILHVFPFNSEKKRGGVAVHLGGSESEVHIHWKGAAEIILDSCKSWLAADGSKHSMTPEKISEFKKFIEDMAASSLRCVAFAYRTYEMVDVPSEDRRADWILPEDDLIMLGIVGIKDPCRPGVKDSVRLCAAAGIKVRMVTGDNLQTARAIALECGILSDPNVSEPVIIEGKAFRALSDLEREEAAEKISVMGRSSPNDKLLLVKALRKRGHVVAVTGDGTNDAPALHEADIGLSMGIQGTEVAKESSDIIILDDNFASVVRVVRWGRSVYANIQKFIQFQLTVNVAALIINVVAAVSSGNVPLNAVQLLWVNLIMDTLGALALATEPPTDHLMQRPPVGRREPLITNVMWRNLIIMALFQVIVLLTLNFRGTSLLQLKNDNQAHADKVKNTFIFNTFVLCQVFNEFNARKPDELNIFKGITGNHLFMAIVAITVVLQALIVEFLGKFTSTTRLTWQLWLVSIGLAFFSWPLAFVGKLIPVPERPLGDFFACCCPGSKQAADAKGDDADHSDV |
| 3000 | sp|P33224|AIDB\_ECOLI | MHWQTHTVFNQPIPLNNSNLYLSDGALCEAVTREGAGWDSDFLASIGQQLGTAESLELGRLANVNPPELLRYDAQGRRLDDVRFHPAWHLLMQALCTNRVHNLAWEEDARSGAFVARAARFMLHAQVEAGSLCPITMTFAATPLLLQMLPAPFQDWTTPLLSDRYDSHLLPGGQKRGLLIGMGMTEKQGGSDVMSNTTRAERLEDGSYRLVGHKWFFSVPQSDAHLVLAQTAGGLSCFFVPRFLPDGQRNAIRLERLKDKLGNRSNASCEVEFQDAIGWLLGLEGEGIRLILKMGGMTRFDCALGSHAMMRRAFSLAIYHAHQRHVFGNPLIQQPLMRHVLSRMALQLEGQTALLFRLARAWDRRADAKEALWARLFTPAAKFVICKRGMPFVAEAMEVLGGIGYCEESELPRLYREMPVNSIWEGSGNIMCLDVLRVLNKQAGVYDLLSEAFVEVKGQDRYFDRAVRRLQQQLRKPAEELGREITHQLFLLGCGAQMLKYASPPMAQAWCQVMLDTRGGVRLSEQIQNDLLLRATGGVCV |
| 3001 | sp|P80241|G17M\_BACSU | MKPVVKEYTNDEQLMKDVEELQKMGVAKEDVYVLAHDDDRTERLADNTNANTIGAKETGFKHAVGNIFNKKGDELRNKIHEIGFSEDEAAQFEKRLDEGKVLLFVTDNEKVKAWA |
| 3002 | sp|Q00055|GPD1\_YEAST | MSAAADRLNLTSGHLNAGRKRSSSSVSLKAAEKPFKVTVIGSGNWGTTIAKVVAENCKGYPEVFAPIVQMWVFEEEINGEKLTEIINTRHQNVKYLPGITLPDNLVANPDLIDSVKDVDIIVFNIPHQFLPRICSQLKGHVDSHVRAISCLKGFEVGAKGVQLLSSYITEELGIQCGALSGANIATEVAQEHWSETTVAYHIPKDFRGEGKDVDHKVLKALFHRPYFHVSVIEDVAGISICGALKNVVALGCGFVEGLGWGNNASAAIQRVGLGEIIRFGQMFFPESREETYYQESAGVADLITTCAGGRNVKVARLMATSGKDAWECEKELLNGQSAQGLITCKEVHEWLETCGSVEDFPLFEAVYQIVYNNYPMKNLPDMIEELDLHED |
| 3003 | sp|P57281|GRPE2\_BUCAI | MDNKENKLDEKKIFKNNKIEEKKENLIDAITVQNQKIENLKLKLLQNQKKINDIELRKLANIENIKKNTEEKIEKIKKTEIERFLKSIIPVIDSLEDILNLSTTVDIKDQPIIKGIELTLESLLNILNKLGVKIEGQKNKVFNPDIHELVSRELSKETLPNHVISVNKKGFTFNKIVLRKASVIVAEN |
| 3004 | sp|Q9UNW8|GP132\_HUMAN | MCPMLLKNGYNGNATPVTTTAPWASLGLSAKTCNNVSFEESRIVLVVVYSAVCTLGVPANCLTAWLALLQVLQGNVLAVYLLCLALCELLYTGTLPLWVIYIRNQHRWTLGLLACKVTAYIFFCNIYVSILFLCCISCDRFVAVVYALESRGRRRRRTAILISACIFILVGIVHYPVFQTEDKETCFDMLQMDSRIAGYYYARFTVGFAIPLSIIAFTNHRIFRSIKQSMGLSAAQKAKVKHSAIAVVVIFLVCFAPYHLVLLVKAAAFSYYRGDRNAMCGLEERLYTASVVFLCLSTVNGVADPIIYVLATDHSRQEVSRIHKGWKEWSMKTDVTRLTHSRDTEELQSPVALADHYTFSRPVHPPGSPCPAKRLIEESC |
| 3005 | sp|Q83C41|GRPE\_COXBU | MSSKNNPESETKAKNKWEKVMEAEEEQEEGRGDGSQEMEPHREGLEFPSREKLEGQLTRMERKVDEYKTQYLRAQAEMDNLRKRIEREKADIIKFGSKQLITDLLPVADSLIHGLESPASEDPQVKSMRDGMSLTLDLLHNTLAKHGVQVINPNPGDPFDPALHEAMSVQAVPDAKPDTIIQVLQKGYQLNGRVLRAARVIVAG |
| 3006 | sp|P0CAV1|GRPE\_CAUVC | MTDEQTPAEEMPFEADDAAQEIEALKLEVAQLKEQALRYAAEAENTKRRAEREMNDARAYAIQKFARDLLGAADNLGRATAHSPKDSTDPAVKNFIIGVEMTEKELQSAFERNGLKKIDPAKGDKFDPHLHQAVTEQPSTEVAAGGVLMVMQAGYELMGRLVRPAMVAVAAKGSTGPASPDAPAASANPYAGAAAEGDSTGGAFDAKA |
| 3007 | sp|Q4KIH2|GRPE\_PSEF5 | MADEQTLDTQNLDANQAPEASGDDLAARVQVLEEQLAGAQDQALRVAADLQNVRRRAEQDVEKAHKFALEKFAGDLLPVIDSLERGLELSNPDDESIRPMREGIELTLKMFHDTLKRYQLEAIDPHGEPFNAEQHQAMAMQESADVEPNSVLKVFQKGYQLNGRLLRPAMVVVSKAPAPVSPSIDEKA |
| 3008 | sp|P0CW11|GRPE\_METMA | MKKSRKKENMDSKERNQKEAERSEARNSESPAEKAGETKVSPENEPSSPEAEKNPEEACREENEILKDQLFRLAADFDNFRKRTARQMEENRKSVLEQVLLDFVEVTDNFDRAIKSARTAEDMGPIVSGIEQLSKQFFSILEKYGLERVKCEKAGEFDPHRHEAIHHIETSEVPDNTIVEIYKEGYALNEKVVRPALVSVARSPEEAEK |
| 3009 | sp|P61445|GRPE\_LEPIN | MAEMSNNKTSEEAKANGKKSQSETLEESKLENMNSEESTETTQTESMETAETETSLQTELESAKKEIESLKDSWARERAEFQNFKRRSAQEFVSIRKEAVKSLVSGFLNPIDNLERVGATQTNSEELKPFVDGVTMILKEFYSVLEKSNVIRFDPKGEPFDPMSMEALSSEEGDQYSEETVIDVYQPGYYYKENEDKFTLRPARVRIGKPKS |
| 3010 | sp|Q4UJN5|GRPE\_RICFE | MIDDNIENNEQTINDIAEDIVETANPEITELKAEIEELKDKLIRTTAEIDNTRKRLEKARDEAKDYAIATFAKELLNVSDNLSRALAHKPANSDIEVTNIIAGVQMTKDELDKIFHKHHIEEIKPEIGSMFDYNLHNAISQIEHPDHAPNSIITLMQSGYKIRDRLLRPATVQVVKKSE |
| 3011 | sp|B7KRF3|HFQ\_METC4 | MAGERAQNLQDTFLNHVRKNKIPLTIFLVNGVKLQGVVTWFDNFCVLLRRDGHSQLVYKHAISTIMPGHPVQLFEPDETAPEKA |
| 3012 | sp|A4WSM3|HFQ\_RHOS5 | MAADKQNLQDAFLNHVRKAKVPVTIFLINGVKLQGVITWFDNFCVLLRRDGQSQLVYKHAISTIMPGQPINLYEGDD |
| 3013 | sp|A4YAK9|HFQ\_SHEPC | MAKGQSLQDPFLNALRRERVPVSIYLVNGIKLQGQVESFDQFVILLKNTVSQMVYKHAISTVVPARPFNVTGHQNAQGGYGPQDDVPSGE |
| 3014 | sp|Q5HNW5|GRPE\_STAEQ | MSEKDQSVNNTEEDFNVETEDNQNDTNIENSVSNTDNSEANASDSENNSEESIKDEESESQDTKIKELEKLANDNEEKYLRLYAEFENYKRRIQKENQINATYKAQGVLTDILPSIDNIERALQIEGDDESFKSLQKGVQMVHESLLRALKDNGLEEILAEGKEFDPNLHQAVVQDDNPDFKSGEVTQELQKGYKLKDRVLRPSMVKVNQ |
| 3015 | sp|B2A3Y0|HFQ\_NATTJ | MSKNTINLQDNVLNQVRKNKITVTIFLVNGYKIRGLIKSFDNFTLLMEVNGEQQMIYKHAVSTIIPGKTLNLFSDQSDKNDQEQ |
| 3016 | sp|Q07XW7|HFQ\_SHEFN | MAKGQSLQDPFLNALRRERVPVSIYLVNGIKLQGQVESFDQFVILLKNTVSQMVYKHAISTVVPARPFNVSAHQGTAHGEESDAE |
| 3017 | sp|Q5LRP4|HFQ\_RUEPO | MASDRQNLQDAFLNHVRKTKVPVTIFLINGVKLQGVITWFDNFCVLLRRDGQSQLVYKHAISTIMPAQPISLYEGEDAN |
| 3018 | sp|Q1CEF5|HFQ\_YERPN | MAKGQSLQDPFLNALRRERVPVSIYLVNGIKLQGQVESFDQFVILLKNTVSQMVYKHAISTVVPSRPVSHHSNTPSGSTNNYHGSNPSAPQQPQQDSDDAE |
| 3019 | sp|B3PYU7|HFQ\_RHIE6 | MAERSQNLQDLFLNTVRKQKISLTIFLINGVKLTGVVTSFDNFCVLLRRDGHSQLVYKHAISTIMPGQPMQMFESEEAAS |
| 3020 | sp|P67911|HLDD\_ECO57 | MIIVTGGAGFIGSNIVKALNDKGITDILVVDNLKDGTKFVNLVDLNIADYMDKEDFLIQIMAGEEFGDVEAIFHEGACSSTTEWDGKYMMDNNYQYSKELLHYCLEREIPFLYASSAATYGGRTSDFIESREYEKPLNVYGYSKFLFDEYVRQILPEANSQIVGFRYFNVYGPREGHKGSMASVAFHLNTQLNNGESPKLFEGSENFKRDFVYVGDVADVNLWFLENGVSGIFNLGTGRAESFQAVADATLAYHKKGQIEYIPFPDKLKGRYQAFTQADLTNLRAAGYDKPFKTVAEGVTEYMAWLNRDA |
| 3021 | sp|Q8UFE8|HFQ\_AGRFC | MAERSQNLQDLFLNTVRKQKISLTIFLINGVKLTGVVTSFDNFCVLLRRDGHSQLVYKHAISTIMPGQPMQMFESEEGAA |
| 3022 | sp|A3NA48|HFQ\_BURP6 | MSNKGQLLQDPFLNALRKEHVPVSIYLVNGIKLQGNIESFDQYVVLLRNTVTQMVYKHAISTVVPARPVNFHPDAEAAS |
| 3023 | sp|B2S5W3|HFQ\_BRUA1 | MAERSQNLQDLFLNSVRKQKISLTIFLINGVKLTGIVTSFDNFCVLLRRDGHSQLVYKHAISTIMPSQPVQMFEGEEA |
| 3024 | sp|Q31GP2|HFQ\_HYDCU | MENKKVAKALPIQDPYLNALRKEKINVAIYLVNGVKLQGRVDSFDQFVVLLRSNVTQMVYKHAISTIVPARDPKAYEFEAQETEAKDSE |
| 3025 | sp|A7GE42|HFQ\_CLOBL | MTKVVNNLQDIFLNGARKNRIPVTIYLTNGFQLKGFVKGFDNFTVILDSDGKQMMIYKHAISTINPAKPLLFVQNPNGDDYKDKE |
| 3026 | sp|P0C107|HFQ\_BRUAB | MAERSQNLQDLFLNSVRKQKISLTIFLINGVKLTGIVTSFDNFCVLLRRDGHSQLVYKHAISTIMPSQPVQMFEGEEA |
| 3027 | sp|B3R1J7|HFQ\_CUPTR | MSNKGQLLQDPFLNALRKEHVPVSIYLVNGIKLQGNIESFDQYVVLLRNTVTQMVYKHAISTVVPARAVNFRVDDSAEA |
| 3028 | sp|B3PZA3|HRCA\_RHIE6 | MGTRSTSVSDAVAVLDERSREIFRRIVEGYLESGEPLGSRNLSRLLPMSLSPASVRNVMSDLEELGLIYSPHISAGRLPTQIGLRFFVDAFMQVGDLSAEDRANIDRQVRAESGGNPVESMMNEASRMLSGISRGAGLVITSKSDPVLKHVEFIRLEPTKALAVLVGDHDQVENRIIELPAGVTSSQLTEAANFLNAHMSGQTLPELRKQLSQLKDDVRHELDALSRDLVERGIAVWAGSPDEGKPAQLIIRGRANLLEGLGGAEDLDRLRMLFDDLEKKDSLIEILSLAESGSGVRIFIGSENKLFSLSGSSLIVAPYRDDDDRIVGAVGVIGPTRLNYSRIVPMVDYTAQLVSRLSRNPL |
| 3029 | sp|B4SW22|IRAP\_SALNS | MKNLIAELLLKLAQKEEESKELVAQVEALEIIVTAMLRNMAQNEQEMLIRQVEGALEGVKPDASVPDHDTELLRQYVKKLLRHPRH |
| 3030 | sp|B7UQ15|IRAM\_ECO27 | MKWIVIDTVIQPSCGISFSVIWSKIKLIIWYQSDAFLPPESIFTLTHTGIMLNNKVLPVTIYNVVPFNKTFWNLIKNSQECPTNTDNVLNECFNNRCTLQICPYGLKQQSP |
| 3031 | sp|Q9ZVU5|KIN17\_ARATH | MGKNDFLTPKAIANRIKAKGLQKLRWYCQMCQKQCRDENGFKCHCMSESHQRQMQVFGQNPTRVVDGYSEEFEQTFLDLMRRSHRFSRIAATVVYNEYINDRHHVHMNSTEWATLTEFIKHLGKTGKCKVEETPKGWFITYIDRDSETLFKERLKNKRVKSDLAEEEKQEREIQRQIERAAEKLNGGGGEGETSGNDEVVDDGDDERKKDEDLRLKSGVKVGFALGGGVKQVATGKERGESSKLLFGDEENDKVERGEKRKRSGDSGRSEKERRSALDELMKEEEKKKERMNRKDYWLFEGIIVKVMSKALAEKGYYKQKGVVKKVIDNYVGEIKMLDSKHVLRVDQKELETVLPQIGGMVKIVNGAYRGSNARLLGVDTEKFCAKVQIEKGVYDGRVIKSIEYEDICKLA |
| 3032 | sp|Q8K988|LON\_BUCAP | MNSERSERIKIPVLPLRDVVVYPHMVIPLFVGRKKSIHCIETSMNNDKKIMLIAQKEASKDEPSTNDLFNIGTISSILQMLKLPDGTVKVLVEGLQRACIKNIESNGEHLVAEVELIISPTVIDKEQEVLIRTTVNQFESYIKLNKKIPSEILNTLSQTKNAEKLADTIAAHMPLKLADKQSVLEIYNVNERLEFLMAIMETEIDLLKVEKRIRNRVKKQMEKSQREYYLNEQIKAIQKELGDMDEIPDENKILKRKIKSLKMPKEAKEKTESELQKLKMMSPMSAEATVVRSYIDWMIQVPWNIKTKIKKDIQEAKKILDIDHFGLEKVKERILEYLAVQSRTNKVKGPILCLIGPPGVGKTSLGKSIAKSTGRKYVRMALGGIRDEAEIRGHRRTYIGSMPGKLMQKMVKAKVKNPLFLLDEIDKMSCDIRVDPASALLEVLDPEQNINFNDHYLEVDYDLSDVMFVATSNSMNIPAPLLDRMEIIRLSGYTENEKLNIAKCYLYPKQMERNALKRNELIITDCAIISIIQYYTREAGVRSLEREISKICRKVVKLLILNKSLKKIEINSKNLKKFLGIKRFDYGKTNNLNQIGQVVGLAWTEVGGELLTIETACVSGKGKLTYTGSLGEVMQESIQAALTVVRSQAKKLGIKKDFHEKHDIHVHVPEGATPKDGPSAGIAMCTAIVSSLTKNPVKSNIAMTGEITLQGRVLTIGGLKEKLLAAHRGGVKTVLIPYENKRNLEEIPKNIIEGLTIYPVKNIEEVLKIALENTPYV |
| 3033 | sp|Q12851|M4K2\_HUMAN | MALLRDVSLQDPRDRFELLQRVGAGTYGDVYKARDTVTSELAAVKIVKLDPGDDISSLQQEITILRECRHPNVVAYIGSYLRNDRLWICMEFCGGGSLQEIYHATGPLEERQIAYVCREALKGLHHLHSQGKIHRDIKGANLLLTLQGDVKLADFGVSGELTASVAKRRSFIGTPYWMAPEVAAVERKGGYNELCDVWALGITAIELGELQPPLFHLHPMRALMLMSKSSFQPPKLRDKTRWTQNFHHFLKLALTKNPKKRPTAEKLLQHPFTTQQLPRALLTQLLDKASDPHLGTPSPEDCELETYDMFPDTIHSRGQHGPAERTPSEIQFHQVKFGAPRRKETDPLNEPWEEEWTLLGKEELSGSLLQSVQEALEERSLTIRSASEFQELDSPDDTMGTIKRAPFLGPLPTDPPAEEPLSSPPGTLPPPPSGPNSSPLLPTAWATMKQREDPERSSCHGLPPTPKVHMGACFSKVFNGCPLRIHAAVTWIHPVTRDQFLVVGAEEGIYTLNLHELHEDTLEKLISHRCSWLYCVNNVLLSLSGKSTHIWAHDLPGLFEQRRLQQQVPLSIPTNRLTQRIIPRRFALSTKIPDTKGCLQCRVVRNPYTGATFLLAALPTSLLLLQWYEPLQKFLLLKNFSSPLPSPAGMLEPLVLDGKELPQVCVGAEGPEGPGCRVLFHVLPLEAGLTPDILIPPEGIPGSAQQVIQVDRDTILVSFERCVRIVNMQGEPTATLAPELTFDFPIETVVCLQDSVLAFWSHGMQGRSLDTNEVTQEITDETRIFRVLGAHRDIILESIPTDNPEAHSNLYILTGHQSTY |
| 3034 | sp|B3E7K2|LON\_GEOLS | MSKSDQEHTTTEPTIVAEEELRIPELLPLLPIRDVVVYPFMIIPLFVGREMSIKAVDQALAGDRMIMLATQHDIGDEDPTPDKIYNVGTVAMIMRMLKLPDGRVKILVQGLVKARIAEFVEFKPFHTVRIERLVEPVAVDNLETEALMRTVREQLAKIAELGKQISPEVMVILENITDPGSMADLIASNLGLKLSEAQMLLEIEDPVRRLTKVNDLLAREHEMLSVQAQIQNAAREEMGKNQKEYYLREQMKAIQQELGDHDGKEELEELRKAIETARMPENVEKEALKQLGRLERMHGDSGEAGVIRTYLDWLIEIPWSKTTRDSLDIIRAKKILDEDHSYLDKVKERILEFLAVRKLNKQMKGPILCFVGPPGVGKTSLGKSIARALNRKFVRISLGGVRDEAEIRGHRRTYLGALPGRIIQGMKQAGTRNPVFMLDELDKLGYDYKGDPSAALLEVLDPQQNNAFSDHYVNLPYDLSNVLFVATANHSDPIPSALFDRMEVINIPGYTEEEKLEIAIRYLVPRQMKDNGLKAKHIVFEEEALKEIIAKYTREAGLRNLEREIGNVCRKVARKIAEGHKRQIRVTPAAVATFLGAAKFLRDDEMDKNEVGVVNGLAWTSVGGEVLHIEATTMAGKGGMALTGQLGDVMKESVQAALAYIRSHGSEFHINPDWFQENEIHVHVPAGAVPKDGPSAGCAMATALISVLTKVPVKKDVAMTGEISLRGKVLPIGGLKEKILAAVRAGMKMVIIPEQNRKDLEDIPKAMQKKVKIVPVKEIDEVLKLALEKFPIPAPKGKAKPATPKVVVRPSKEISA |
| 3035 | sp|A7YY73|MAFF\_BOVIN | MSVDPLSSKALKIKRELSENTPHLSDEALMGLSVRELNRHLRGLSAEEVTRLKQRRRTLKNRGYAASCRVKRVCQKEELQKQKSELEREVDKLARENAAMRLELDALRGKCEALQGFARSVAAARGPAALVAPASVITIVKSAPSPGPGPAPGPGPASGPGPAPGPAPAACS |
| 3036 | sp|Q5AAG6|MKC1\_CANAL | MDQQEAPIYYGRSVNKVYNQEFIIDSRFKIVKELGHGAYGIVCSAKYDNGSKKVPDSNNGNASSSANASFVAIKKITNIFSKNILCKRALRELKLLQFFRGHKNITCLYDLDIIPNPMTGEFNEIYLYEELMECDMHQIIRSGQPLSDQHYQSFIYQVLCGLNFIHSADVLHRDLKPGNLLVNADCELKICDFGLARGFSENPDENAGFMTEYVATRWYRAPEIMLSFTNYTKAIDIWSVGCILAELLGGKPLFRGKDYVDQLNQILMILGTPPESTLQRIGSHRAQNYVRSLPITRKASYEELFPDANPLALDLLERMLTLDPRERITVRDALNHKYLELWHDPKEEIECQVKFDFKSFETVDGLDEMKQLIMDEVQKFREFVRKPIEEQQRIQMQLHMQKREEQRQEEEEKELLEQQRQFPAQESMDISQTPYNNLETNIGTPQVEDDYPRPQELDEFTFSNLESSSSMNLFQDMAKPSGEEYIKLEEELGFGLDGAMFNNYCNDHQ |
| 3037 | sp|P32179|MET22\_YEAST | MALERELLVATQAVRKASLLTKRIQSEVISHKDSTTITKNDNSPVTTGDYAAQTIIINAIKSNFPDDKVVGEESSSGLSDAFVSGILNEIKANDEVYNKNYKKDDFLFTNDQFPLKSLEDVRQIIDFGNYEGGRKGRFWCLDPIDGTKGFLRGEQFAVCLALIVDGVVQLGCIGCPNLVLSSYGAQDLKGHESFGYIFRAVRGLGAFYSPSSDAESWTKIHVRHLKDTKDMITLEGVEKGHSSHDEQTAIKNKLNISKSLHLDSQAKYCLLALGLADVYLRLPIKLSYQEKIWDHAAGNVIVHEAGGIHTDAMEDVPLDFGNGRTLATKGVIASSGPRELHDLVVSTSCDVIQSRNA |
| 3038 | sp|Q46864|MQSA\_ECOLI | MKCPVCHQGEMVSGIKDIPYTFRGRKTVLKGIHGLYCVHCEESIMNKEESDAFMAQVKAFRASVNAETVAPEFIVKVRKKLSLTQKEASEIFGGGVNAFSRYEKGNAQPHPSTIKLLRVLDKHPELLNEIR |
| 3039 | sp|Q9LDR8|MY102\_ARATH | MARSPCCEKNGLKKGPWTSEEDQKLVDYIQKHGYGNWRTLPKNAGLQRCGKSCRLRWTNYLRPDIKRGRFSFEEEETIIQLHSFLGNKWSAIAARLPGRTDNEIKNFWNTHIRKKLLRMGIDPVTHSPRLDLLDISSILASSLYNSSSHHMNMSRLMMDTNRRHHQQHPLVNPEILKLATSLFSQNQNQNLVVDHDSRTQEKQTVYSQTGVNQYQTNQYFENTITQELQSSMPPFPNEARQFNNMDHHFNGFGEQNLVSTSTTSVQDCYNPSFNDYSSSNFVLDPSYSDQSFNFANSVLNTPSSSPSPTTLNSSYINSSSCSTEDEIESYCSNLMKFDIPDFLDVNGFII |
| 3040 | sp|Q8YS92|NICK\_NOSS1 | MVSTLDDTKRNAIAEKLADAKLLQELIIENQERFLRESTDNEISNRIRDFLEDDRKNLGIIETVIVQYGIQKEPRQTVREMVDQVRQLMQGSQLNFFEKVAQHELLKHKQVMSGLLVHKAAQKVGADVLAAIGPLNTVNFENRAHQEQLKGILEILGVRELTGQDADQGIWGRVQDAIAAFSGAVGSAVTQGSDKQDMNIQDVIRMDHNKVNILFTELQQSNDPQKIQEYFGQIYKDLTAHAEAEEEVLYPRVRSFYGEGDTQELYDEQSEMKRLLEQIKAISPSAPEFKDRVRQLADIVMDHVRQEESTLFAAIRNNLSSEQTEQWATEFKAAKSKIQQRLGGQATGAGV |
| 3041 | sp|B5X570|NAC14\_ARATH | MNQIKNKTLPEMTTEQALLSMEALPLGFRFRPTDEELINHYLRLKINGRDLEVRVIPEIDVCKWEPWDLPGLSVIKTDDQEWFFFCPRDRKYPSGHRSNRATDIGYWKATGKDRTIKSKKMIIGMKKTLVFYRGRAPRGERTNWIMHEYRATDKELDGTGPGQNPYVLCRLFHKPSDSCDPAHCEEIEKVNFTPTTTTRCSPDDTSSEMVQETATSGVHALDRSDDTERCLSDKGNNDVKPDVSVINNTSVNHAETSRAKDRNLGKTLVEENPLLRDVPTLHGPILSEKSYYPGQSSIGFATSHMDSMYSSDFGNCDYGLHFQDGASEQDASLTDVLDEVFHNHNESSNDRKDFVLPNMMHWPGNTRLLSTEYPFLKDSVAFVDGSAEVSGSQQFVPDILASRWVSEQNVDSKEAVEILSSTGSSRTLTPLHNNVFGQYASSSYAAIDPFNYNVNQPEQSSFEQSHVDRNISPSNIFEFKARSRENQRDLDSVVDQGTAPRRIRLQIEQPLTPVTNKKERDADNYEEEDEVQSAMSKVVEEEPANLSAQGTAQRRIRLQTRLRKPLITLNNTKRNSNGREGEASHRKCEMQEKEDISSSSSWQKQKKSLVQFSSVVIIVAVIVVLVEIWKESRDAKCSFLFHQLDSFKGMFT |
| 3042 | sp|Q2GZN9|NST1\_CHAGB | MKGNRNPPPPPSGPVPPSPTSKNTAKYTNKDGSKFITVPKMNTPIDSAQPSPTASSLAAKPALPPGPETEPPQTVNRKKQKRRAKAAAKAAAERAQNSPAINGLPSPSPTNDQQSADADPEDDEDEPGTGHDSGNQSLYLNGGAHGGAPGKSKKSKKKKKKNATGPAGGFPNNNPYAQDDRDHSPEPILPPPPPQQNRPGMSREKIWNTNSQEERERIKEFWLGLSEAERKSLVKVEKDAVLKKMKEQQKHTCSCTVCGRKRTAIEEELEGLYDAYYEELEQYANHPNQGEGPPMLRPRRSFGSMGGMRPRGLHSRFSNHQPSRGRIVDELEGDEEEEEVEAEAEDDGEGDEEGEDVYSEDELEDDMYSEEEQEPSEELHRSDYAADFFNFGNSLTVQGRDRLPILPSFLQNYPFSGTGNNAYGSSSLGGILTVADDLLKNDGKKFIEMMEQLAERRMAREEDARGQFERAYDHPNGERYVHSHPPPPDEEEFEDEEEEYEEDDEEEYNSPDEEDTMTEEQRMEEGRRMFQIFAARMFEQRVLTAYREKVAKERQAKLLEEIEAENQQDAQRKAKKAKDAQRRKDRAAKKKEAQAEEKARREAEKAAEEAARRAEEARKAEEQRAKAEEKRKKKEAQRKAEEEERQRKEAERLRKIQDREEAERKAREAREREKKTREEARLREKEAREQKERKDRERREQQERERREKEAKAKAEREAKEAKEAKEAKEGKDTKERRKKEERAAHKAAALAPAIPVPITLPKRSATQQPPAPPVAPVPVLPQQSTSYASPKVPVATPALPKAPTPMRARQTSQQDGSTASSGAASNSGSMASQNPSPHPITPVHASPGLMAPPSKSGVMGIGSQGSAQPPSHSASPMSFPAKLLPPQHSPFGIPPMGSAMSYPPPGLSQMPLGFANPLHREPLFPPMPGFRPASGMMPMPPGLNGPGVNRGFPLHPPPGFLGGPMESPAPSMAQAMSPGLQRDNQSPHSRQGSGSFDPSQPISRPTPIGRPASVVQGQRPSNWSPSSGPPKPEPEAHLGSRALLDDLDDGPQDFPGRLSRGGSAPGPRPAPGFPMPPFGMDPMFSHNPWAPPGVVQPNLFGPHPPPSFSPLSAHTPMGMPWGHAMPSASTFGTPGAVDRPIEPRSVAVRKMLRRACEDLANAGSAEGRDSFIPLEMIKVQVENFNHGYPIDEKDLLDICETEGNEVNGGGSFDVVNDGQGGRSIRFVSGDQRTAPQPVQLAVGYNPGSPIGGGR |
| 3043 | sp|Q5A0E5|NRG1\_CANAL | MLYQQSYPITNKLLNASAAGSTSTASIIDGGCTLSKPGSGKTKSTTSLPSFNELLTSIPLPNEFKPSTKNTNQAAAATATSPYNYYMGPPAQHRLPTPPPYPMSSPTTATAATPLSQQSPHLQPQQTLQQPQPYHQQYYNYQYAAPPYPHPSQVPPPASYQQRHQQPMYQNTNGVPIIIRPSPGLITPTSTTFDHAKIRSNSTGDLSANSLALSSNNNTQSKDPRRKHVCKVCSRSFTTSGHLARHNRIHTGERKHQCPWPTCEARFARQDNCNQHYKTHTNGKNKRNRQQHRTLEASHVGTKYNTKSLV |
| 3044 | sp|G2JZ41|OPUCD\_LISM4 | MDTLKQLIDYYQTNGSYVMEEFWRHFLMSAYGVIFAAIIAIPLGVYIARKKRLAGWVIQIANIIQTIPALAMLAVLMLIMGLGTNTVVLSLFLYSLLPILKNTYTGIRNVDGALLESGKAMGMTKWQVLRLIEMPLALSVIMAGIRNALVIAIGVAAIGTFVGAGGLGDIIVRGTNATNGTAIILAGAIPTAVMAILADVLLGWVERTLNPVKNKRKPLTEAL |
| 3045 | sp|Q9MA15|AB1K3\_ARATH | MSLVVGQSLGLTLVGDGLSLRNSKINVGKSKFFSVNRRRLARAALVQARPKEDGAAASPSPSSRPASVVQYRRADLADDLQAEARALGRAIDASIYSPELIARKHGSQPFKALRRSLEILGALGGFALKLGIDQKQGNLEKNMKKRAIELRRIFTRLGPTFVKLGQGLSTRPDLCPPDYLEELAELQDALPTFPDAEAFACIERELDLSLETIFSSVSPEPIAAASLGQVYKAQLRYSGQVVAVKVQRPGIEEAIGLDFYLIRGVGKLINKYVDFITTDVLTLIDEFACRVYQELNYVQEAQNARRFKKLYADKADVLVPDIFWDYTSRKVLTMEWVEGTKLNEQLAIESQGLKVLDLVNTGIQCSLRQLLEYGFFHADPHPGNLLATPDGKLAFLDFGMMSETPEEARFAIIGHVVHLVNRDYEAMARDYYALKFLSPDVDVTPIIPALRDFFDDALNYTVSELNFKTLVDGLGAVFYQYPFNVPPYYALILRSLTVLEGLALYADPNFKVLAASYPYFAKRLLTDPNPYLRDALIELLFKDGKFRWNRLENLLQQGSKDRDFSAKDALQPVLKLLLDPNGEELRLLVIKEAVRVSEAIALGTVVDTYNSLPEFLRSLVFNGNGNGPLTMSTAELQSTLELRDQVSRIWGLLQSSESFDPAILQPILQVLQQPEARRLGGRVAGGVGQRLAARFLQQLLRATTPSSAPSP |
| 3046 | sp|Q11B39|GRPE\_CHESB | MNDGFAMNTHSKDERAPENGQAENMAVENGAEAAQAADRATPVSEEDVLLRLAKENEDLKERALRLTAEMENLRKRTQRDVADARVYGIANFARDMLTVSDNLQRALQAVSEEARAQADSGLKALVEGVEMTERAMLATLERHGVKRVDPNGEKFDPHFHQAMFEVPNADVPNNTVVQVVQPGYVIGDRVLRPAMVGVAKGGPKAETPAATSEQAAQGPEGA |
| 3047 | sp|B2SGV9|GRPE\_FRATM | MSKQEKSNVEDKSLDIETAVQVETAQESASGALEELSVEEQLERAKDTIKELEDSCDQFKDEALRAKAEMENIRKRAERDVSNARKFGIEKFAKELLPVIDSIGQALKHEVKHEEAIAMKEGIELTAKMLVDILKKNGVEELDPKGEKFDPNLHEAMAMIPNPEFEDNTIFDVFQKGYMLNGRIVRAAKVVIVKN |
| 3048 | sp|Q2P460|GRPE\_XANOM | MNQDHPEFDSEDLAQNPPETDPLKAEIESLRSEIALVKADALRERADLENQRKRIARDVENARKFANEKLLGELLPVFDSLDAGLTAAGTQPSPLRDGLDMTYKQLLKVAADNGLTLLDPVGQPFNPDQHQAISQGEAEGIAPGHVVQVFQKGYLLNDRLLRPALVVVAKQD |
| 3049 | sp|A0LH27|GRPE\_SYNFM | MSKKHMKGNGGEVPENSEMSGSEELVAVEPGEPDYRELLARKEEELKQSQDRLLRMAAELDNTRKRLEREKSEGIAYANEGLMKDLLPVLDNLERALEHSENEADCGSLVEGVRMTLKGFLDSLARFGCTPFESVGNAFDPNFHEAVMQEEVADYPERTVIREFQKGYTLKERLLRPAMVVVSKAAGDT |
| 3050 | sp|A5VJE6|GRPE\_LACRD | MAKEKQEEQQKQTAPENEKAPKKDIKKEASDKKGDQTSKLKEEIADLKKQLADKDDKYLRAEAEIQNMTNRFNKERAQILKYDGQDLAKSILPVLDNLKRALAIEVVDDNGKQLKKGIQMVHDHLVKALNDHGITEIKADGETFDPTLHQAVQTVPVEEGQKPETVVNVLQAGYQLKDRVLRPAMVVVAQ |
| 3051 | sp|A4TNU6|GRPE\_YERPP | MSSKEQKTPNEQVSEEMENTAEQQVEATQETGECVDPRVAELEVQLSDALQRERESLLRAKAEVENIRRRTELDVEKAHKFALERFSSELLPVIDNLERALDTADKTNTELTSMIEGVELTLKSLLDAVGKFGIEVVGETHVPFNPEVHQAMTMLESADHEPNHVMMVMQKGYTLNGRLLRPAMVAVSKAKS |
| 3052 | sp|Q9CB23|GRPE\_MYCLE | MTEGNPHEQVTVTDKRRIDPDTGEVRSIPLGDTPGGSEPAGMTDRSANSTDTMVDKVAELTSDLQRVQADFANYRKRALRDQQTASDRAKATVISQLLGVLDDFDRAREHGDLDSGPLKSVADKLMSALTGLGLVAFGVEGEDFDPVLHEAVQHEGDGGEGSKPVIGDVLRHGYKLGDQVLRHALVGVVDTIAGDGAETVAIVAPVDSTAKTEQGELGDNVTPHKEDGD |
| 3053 | sp|B2GBQ4|GRPE\_LACF3 | MAKDEEKNSQASAAPNEGEVKAKQEQTSAKEPAAKAGETEKVADLQKQVEELTKQLDDQKDQNLRAQAEMQNMTKRFKKEQAQLLKYDGQDLAKGILPVLDNLKRALEIEVEDENGQQLKKGIQMVHDHLEKALADHDIKEVEALNQPFDPTTQQAVQTVAASGDQKPDTVVQVLQAGYVLHDRVLRPAMVIVAQ |
| 3054 | sp|Q5X3M6|GRPE\_LEGPA | MSKQNKKDWKKFKDEHKEEHKVENEILEEEIDEKSQHQEPALGHPSYTALEEQLTLAEQKAHENWEKSVRALAELDNVRRRMEREVANAHKYGVEKLISALLPVVDSLEQALQLADKNSDPSMHEGLELTMKLFLDALQKFDVEQIDPLGQTFDPQQHEAMSMQPAPGAPPNSVITVFQKGYKLSDRVIRPARVIVSTK |
| 3055 | sp|P32110|GSTX6\_SOYBN | MAATQEDVKLLGIVGSPFVCRVQIALKLKGVEYKFLEENLGNKSDLLLKYNPVHKKVPVFVHNEQPIAESLVIVEYIDETWKNNPILPSDPYQRALARFWSKFIDDKIVGAVSKSVFTVDEKEREKNVEETYEALQFLENELKDKKFFGGEEFGLVDIAAVFIAFWIPIFQEIAGLQLFTSEKFPILYKWSQEFLNHPFVHEVLPPRDPLFAYFKARYESLSASK |
| 3056 | sp|A8H6X2|GRPE\_SHEPA | MSNQTNKAQDNQVEEIVEGELLNENATEATDEASLMDELTQANFRVEELEKALQEAEAKVDAQKDSVIRAAAEVDNIRRRSAMDVEKAHKFALEKFINELLPVLDNMERALQGTDAEAEATKAIYEGVELTAKSFMSTVEKFGLVQVDPQGDTFNPELHQAIGMQPSADFPANTVMMVMQKGYTLNERLLRPAMVMVSQG |
| 3057 | sp|Q5KWZ6|GRPE\_GEOKA | MEQGEKQVMEQATYDEPEREQPIEEEAAPQPEEESGGVPLEEAGGEEAAEPAEKAPTAEELAAAKAQIAELEAKLSEMEHRYLRLYADFENFRRRTRQEMEAAEKYRAQSLASDLLPVLDNFERALKIETDNEQAKSILQGMEMVYRSLVDALKKEGVEAIEAVGKPFDPYLHQAVMQAEAEGYEPNTVVEELQKGYKLKDRVLRPAMVKVSQ |
| 3058 | sp|P71499|GRPE\_MYCCT | MTEELKNKKNNKNYYSQNKNKTKAEFQKPHVKKNQYLKLKTKLDTALLEVQNLKDLNETLKKDIESERQLNLAEISNLTKKYNQKEIEIQKYGASKLARDLIQPLEILKKVVNAPNNNEVVQAYVKGFEMIVSQINNVLESHHIKAMNVKVGDMFNPHLHDANEAVESDEYKTNQIVGVLSDGYMIHDKVLIYAIVKVAK |
| 3059 | sp|A1KT11|HFQ\_NEIMF | MTAKGQMLQDPFLNALRKEHVPVSIYLVNGIKLQGQVESFDQYVVLLRNTSVTQMVYKHAISTIVPARSVNLQHENRPQAAPASTLVQVETVQQPAE |
| 3060 | sp|P59331|HCHA\_ECOL6 | MTVQTSKNPQVDIAEDNAFFPSEYSLSQYTSPVSDLDGVDYPKPYRGKHKILVIAADERYLPTDNGKLFSTGNHPIETLLPLYHLHAAGFEFEVATISGLMTKFEYWAMPHKDEKVMPFFEQHKSLFRNPKKLADVVASLNADSEYAAIFVPGGHGALIGLPESQDVAAALQWAIKNDRFVISLCHGPAAFLALRHSDNPLNGYSICAFPDAADKQTPDIGYMPGHLTWYFGEELKKMGMNIINDDITGRVHKDRKLLTGDSPFAANALGKLAAQEMLAAYAS |
| 3061 | sp|B7M3A5|HCHA\_ECO8A | MTVQKSKNPQVDIAEDNAFFPSEYSLSQYTSPVSDLDGVDYPKPYRGKHKILVIAADERYLPTDNGKLFSTGNHPIETLLPLYHLHAAGFEFEVATISGLMTKFEYWAMPHKDEKVMPFFEQHKSLFRNPKKLADVVASLNADSEYAAIFVPGGHGALIGLPESQDVAAALQWAIKNDRFVISLCHGPAAFLALRHGDNPLNGYSICAFPDAADKQTPEIGYMPGHLTWYFGEELKKMGMNIINDDIAGRVHKDRKVLTGDSPFAANALGKLAAQEMLAAYAG |
| 3062 | sp|C4ZQN7|HCHA\_ECOBW | MTVQTSKNPQVDIAEDNAFFPSEYSLSQYTSPVSDLDGVDYPKPYRGKHKILVIAADERYLPTDNGKLFSTGNHPIETLLPLYHLHAAGFEFEVATISGLMTKFEYWAMPHKDEKVMPFFEQHKSLFRNPKKLADVVASLNADSEYAAIFVPGGHGALIGLPESQDVAAALQWAIKNDRFVISLCHGPAAFLALRHGDNPLNGYSICAFPDAADKQTPEIGYMPGHLTWYFGEELKKMGMNIINDDITGRVHKDRKLLTGDSPFAANALGKLAAQEMLAAYAG |
| 3063 | sp|Q9WYZ6|HFQ\_THEMA | MALAEKFNLQDRFLNHLRVNKIEVKVYLVNGFQTKGFIRSFDSYTVLLESGNQQSLIYKHAISTIIPSSYVMLMPKKQETAQEAETSENEGS |
| 3064 | sp|Q3BUR4|HFQ\_XANC5 | MAKGQSLQDPFLNALRRERVPVSVYLVNGIKLQGTIESFDQFVVLLRNTVSQMVYKHAISTVVPARNVRVGPGGGYVQSNEGNQAEDDDVEQ |
| 3065 | sp|C3MBM0|HFQ\_SINFN | MAERSQNLQDLFLNTVRKQKISLTIFLINGVKLTGVVTSFDNFCVLLRRDGHSQLVYKHAISTIMPGQPLQMFENEEAAS |
| 3066 | sp|B7VI55|HFQ\_VIBTL | MAKGQSLQDPFLNALRRERIPVSIYLVNGIKLQGQIESFDQFVILLKNTVNQMVYKHAISTVVPARAVSHHSGEQQRAPSDRPEKTED |
| 3067 | sp|Q3KJK7|HICB\_PSEPF | MRGSVMFEYALEVHEEPGSVWLSCAEIPEMHAAGDTLEEALDGAIDAMETALSIYVDDRRLIPTGDAGEQESDAVLRLPALTAAKVGLWNTLLESGVSKAELARRLGVQRPQVDRLVDFLHHSKIENVERALQQLGRRILLSVEAA |
| 3068 | sp|B7GIA1|HFQ\_ANOFW | MKNTINIQDQFLNQLRKEETTVTVFLLNGFQLRGLVKGFDNFTVLLEVDGRQQLIYKHAISTFAPQKNVKIEIE |
| 3069 | sp|A7MM89|HFQ\_CROS8 | MAKGQSLQDPFLNALRRERVPVSIYLVNGIKLQGQIESFDQFVILLKNTVSQMVYKHAISTVVPSRPVSHHSNNAGGGSNNYHHSNNAQPSSAASQDSEDAE |
| 3070 | sp|Q93ZH9|HHP1\_ARATH | MDQNGHNDEAETVSCGNGNCKSKIVPGDDHGGDESSGTKRRKKRKTQQKTMKRRELMSYCELPEYMKDNEYILNYYRADWSIRDAFFSVFSFHNESLNVWTHLIGFIFFVALTVANIIHHDGFFPVDAKSPGNVTRWPFFVFLGGSMFCLLASSICHLFCCHSKELNVFLLRIDYAGITAMIITSFFPPIFYIFQCTPRWYFIYLAGITSMGIFTIITLFTPSLSAPKYRAFRALLFASMGLFGIVPAAHALVVNWGNPQRNVTLVYELLMAVFYLVGTGFYVGRVPERLKPGWFDRVGHSHQIFHVFVLLGALSHYAAALLFLDWRDHVGC |
| 3071 | sp|P67698|HICB\_ECO57 | MRYPVTLTPAPEGGYMVSFVDIPEALTQGETVAEAMEAAKDALLTAFDFYFEDNELIPLPSPLNSHDHFIEVPLSVASKVLLLNAFLQSEITQQELARRIGKPKQEITRLFNLHHATKIDAVQLAAKALGKELSLVMV |
| 3072 | sp|B0CGR3|HFQ\_BRUSI | MAERSQNLQDLFLNSVRKQKISLTIFLINGVKLTGIVTSFDNFCVLLRRDGHSQLVYKHAISTIMPSQPVQMFEGEEA |
| 3073 | sp|C3L887|HFQ\_BACAC | MKQSINIQDQFLNQLRKENTFVTLYLLNGFQLRGLIKGFDNFTVLLETEGKQQLIYKHAISTFVPQKNVSIELE |
| 3074 | sp|Q8XL84|HFQ\_CLOPE | MNKSINNLQDIFLNNARKERIPVTIFLVNGVQLKGIVKGFDSFTVVLDSDGKQQLVYKHAISTVSPAKPILFNNAQVFDN |
| 3075 | sp|P04809|HSP83\_DROPS | MPEEAETFAFQAEIAQLMSLIINTFYSNKEIFLRELISNASDALDKIRYESLTDPSKLDSGKELYIKLIPNKTAGTLTIIDTGIGMTKSDLVNNLGTIAKSGTKAFMEALQAGADISMIGQFGVGFYSAYLIADRVTVTSKNNDDEQYVWESSAGGSFTVKADNSEPLGRGTKIVLYIKEDQTDYLEESKIKEIVNKHSQFIGYPIKLLVEKEREKEVSDDEADDEKKDDEAKKDMDTDEPKIEDVGEDEDADKKDKDGKKKKTIKEKYTEDEELNKTKPIWTRNPDDISQEEYGEFYKSLTNDWEDHLCVKHFSVEGQLEFRALLFIPRRTPFDLFENQKKRNNIKLYVRRVFIMDNCEDLIPEYLNFIKGVVDSEDLPLNISREMLQQNKVLKVIRKNLVKKTMELIEELTEDKENYKKFYEQFSKNLKLGVHEDSNNRAKLADFLRFHTSASGDDFCSLSDYVSRMKENQKHVYFITGESKDQVSNSAFVERVKARGFEVVYMTEPIDEYVIQHLKEYKGKQLVSVTKEGLELPEDEAEKKKREEDKAKFEGLCKLMKSILDSKVEKVVVSNRLVDSPCCIVTSQFGWSANMERIMKAQALRDTATMGYMAGKKQLEINPDHPIVEALRQKADADKNDKAVKDLVILLFETSLLSSGFSLDSPQVHASRIYRMIKLGLGIDEDEPMTTEDAHSGGDAPGLVEDTEDASHMEEVD |
| 3076 | sp|P41152|HSF30\_SOLPE | MEDVMKVKVEEDGIPTAVLPMEGLHDVGPPPFLSKTYEMVEDSSTDQVISWSTTRNSFIVWDSHKFSTTLLPRFFKHSNFSSFIRQLNTYGFRKVDPDRWEFANEGFLGGQKHLLKTIKRRRNVGQSMNQQGSGACIEIGYYGMEEELERLKRDKNVLMTEIVKLRQQQQSTRNQIIAMGEKIETQERKQVQMMSFLAKIFSNPTFLQQYLDKQVHRKDKQRIEVGQKRRLTMTPSVTGSDQPMNYSSSLQESEAELASIEMLFSAAMDNESSSNVRPDSVVTANGTDMEPVADDIWEELLSEDLISGDRAAEEVVVVEQPEFDVEVEDLVVKTPEWGEELQDLVDQLGFL |
| 3077 | sp|Q6TMK3|HSP88\_DICDI | MSFVVGFDFGTKNCTIAVAQKGGVDVIANEVSNRLTPSMVSFGEKERYLGESALTNQLRNIRNTITNIKRFIGQEFKTDTVQEELKHEMFQSYEMDNGFVGYNVTYAGEQCSFSSEAILGMLFGKLKKTTEAFVNNPVRDVVISVPVFWNDYQRRAILNAGSIAGLNIIRLINETTATALSYGIYKEWSETDPTNVLFVDVGDSATSVSAVQYKKGQLKVLGTASNPNIGSRVFDETLVKHFAKEFQTKYKINVFENKKALIRLRQACEKVKKILSSNNEAPVSIDSLMDDKDVKGMIDRATFEELANDDMNTIVEPLQRLLSELQMTPDQFQSIEITGGGTRSTSLQKKLSEVLGRDLSKTINSEESVCRGAALQCAMLSPVFRVRPFAVNDVASYPVSVHFKSVSGVEQKLDLFNLKSAIPTPKPLRISFPVTKAEGFEIVVNSTFGTIATVKVDNIPAFTNKSSIKAKVWLDIHGIFHIDEVKLVEQIPEEETAAPAETPAETPANGEAAKPAEEKKVKVKETSLVFTTSRKGLTNELLKAAIEEEGRMQASDLLAIETAEKKNALESYIYDMRSKLQSSLKEYVTPADAETFMTQLNKQMDWLESEEGEDQTKSVYAGKLEELRRLGNPIQKRKQDLEDYPDAVQTLKNIASYVKNEAMIPGERYDHIEKEEKEKLCKDCDDAVEWIDALVAKQQATPKTQPCIINTTEVLAKKTQLEVTAKMILGKPKPKPVEVPKEEPKDTPMESKDAPAEEPVATKDQKMDDILD |
| 3078 | sp|Q08276|HSP7M\_SOLTU | MATAALLRSLRRREFATSSISAYRTLASNTKPSWCPSLVGAKWAGLARPFSSKPAGNEIIGIDLGTTNSCVAVMEGKNPKVIENSEGARTTPSVVAFNQKGELLVGTPAKRQAVTNPTNTLSGTKRLIGRRFDDPQTQKEMKMVPYKIVRGSNGDAWVEANGQQYSPTQIGAFILTKMKETAEAYLGKSINKAVITVPAYFNDAQRQAIKDAGAIAGLDVQRIINEPTAAALSYGMNSKEGLVAVFDLGGGTFDVSILEISNGVFEVKATNGDTFLGGEDFDNALLEFLVSEFKRTEGIDLSKDKLALQRLREAAEKAKIELSSTSQTDINLPFITADASGAKHLNITLTRSKFETLVNHLIERTRNPCKNCLKDAGVSLKDVDEVLLVGGMTRVPKVQEIVSEIFGKSPSKGVNPDEAVAMGAALQGGILRGDVKELLLLDVTPLARGIETLGGIFTRLINRNTTIPTKKSQVFSTAADNQTQVGIKVLQGEREMASDNKLLGEFDLVGIPPAPKGYCPQIEVIFDIDANGMVTVSAKDKATSKEQQITIRSSGGLSEDEIDKMVREAEMHAQRIKNARHLLISGIVQSTTIYSIEKSLSEYKEKVPKEVVTEIETAISDLRAAMGTENIDDIKAKLDAANKAVSKIGEHMAGGSSGGASGGGGAQGGDQPPEAEYEEVKK |
| 3079 | sp|Q038N1|HRCA\_LACP3 | MLTKRQLLVLKEIIRLFTESGQPVGSKTLMQELPVHVSSATIRNDMAALEDAGLITKTHSSSGRVPSTQGYRYYLDHLVEPVRVSRHDLATIKQELGQRYSKMDEIVAQSAQILSNLTSYTAISLGPEVNNIKLTGFRLVPLGNHQVMAILVTNNGNVENQVFTVPPSISFDELEKAIRIVNDQLVGLPLVQVAQRLRTDVPSMLMQYLTSPDGFLDIFGNVLKSAASERFYVGGRLNLMDYLGDSDIHELKKIMSLIDADHGDLTELLGGPIRQTPVQVRLGPELKPIDLANLSLITASYDVGGHGTGMIALLGPTQMPYSKMIGLLDVFREELAKRLTDYYANFDQ |
| 3080 | sp|A3CQC4|HRCA\_STRSV | MVTERQNEILNLIIDIFTKTHEPVGSKALQDSINSSSATIRNDMAALEKQGLLEKAHTSSGRKPSVAGFQYFVKHSLSFDRLAENELYEVIKAFDHEFFNLEDILQQAADLLTKLSGCTVVALDVEPSRQRLTAFDIVVLSQHTALAVFTLDESNTITSQFMIPRNFLKEDLDRLKGLVRERFLGQTVLDIHYKIRTEIPQIIQRYFTTTDNVIQLFEHIFGDIFKENVILSGKVQLLEFSDLTAYQFFDDPQKVAFEIRDSLAEDQMQSVRVADSRESCLADLTLISSKFLIPYRGFGVLAVVGPVNLDYQRLVSQMNVVNRVLTMKLTDFYRYLSSNHYEVH |
| 3081 | sp|Q3ZYU9|HRCA\_DEHMC | MLTSRAEIILRSIVRQYITKAVPVSSSSILEDCGLDICSATIRNEVVRLEIEGYILRPHHSAGSIPADKGYRYYVESLKDVELPTNDKFLIRHLFHQVEKEMEEWLNLTVAVLSQRVQSMAVVTMPRQTQGKVHHIELVSLQDNLVLVVLILRGAKVKQQLVNFENVVSQPELTLISNRLNDAYDGLTRFQIEQKPLGLNHDELKVKDSLVKMMRGEDEQESREPFFDGLHYMLEQPEFHQNQRAQEIMQLLEQKKLSKMIVPPMPFNRGVQVYIGQENASAEIRDYSLIVSQYGIPDEAVGTIGVIGPTRMAYERALSAVSYLSLVMSTLVAELYGKAPVDKDE |
| 3082 | sp|Q8NNB3|HRCA\_CORGL | MSATEKRRYEVLRAIVADYIASQEPVGSKSLLERHKLNVSSATIRNDMSVLESDGFIVQEHASSGRVPTERGYRLFVDSIHDIKPLSLAERRAILGFLEGGVDLEDVLRRSVQLLSQLTHQAAVVQLPTLKTARVKHCEVVPLSPMRLLLVLITDTGRVDQRNVELEEPLAAEEVNVLRDLLNGALGEKTLTAASDALEELAQQAPTDIRDAMRRCCDVLVNTLVDQPSDRLILAGTSNLTRLSRETSASLPMVLEALEEQVVMLKLLSNVTDLDQVRVHIGGENEDIELRSATVITTGYGSQGSALGGLGVVGPTYMDYSGTISKVSAVAKYVGRVLAGE |
| 3083 | sp|B2V6B0|HSLU\_SULSY | MEIDKELTPKQIVEELNKYIVGQYEAKKAVAVALRNRWRRQKLPEDLRDEVIPKNILMIGPTGVGKTEIARRLANLVKAPFIKVEATKFTEVGYVGRDVESIIRELVDVSFKMVKAEKMEEVREKAKAIAEEKILDYLVPKKPKRYGTLIEEEEESPAREKFREMLKNGQLDDKVVEIDVEEKVSAVVGGVVVPGLEDIESQLKELFSNLGPSKRKKRRLTVKEALKIIENEEAEKLIDMDEVQTLAVKRAENLGIVFIDEIDKVAARGSSKSGPDVSREGVQRDLLPIVEGTVVSTKYGPVKTDHILFIAAGAFHLAKPSDLIPELQGRFPIRVELKALTKDDFVKILTEPKNALIKQYIALMSTEGVELEFTEDAIQEIAQIAEEVNERTENIGARRLHTILERIMEDYSFNAPDLKGQKIVIDSKLVREKLGNVITNEDLTRYIL |
| 3084 | sp|B1I6D9|HRCA\_DESAP | MGIDERKKQILRAIVLDYIATAEPVGSRTIARKYGLGISPATIRNEMADLEEMGYLEQPHTSAGRIPSQRGYRYYVDELMEPETPAEEEKLIIKTNYQAKVKSISEVIERTGQLMSQLTSYAALVSTPRVTGSTVQHVQLIAMGGGKAMVLVVTEPEKVHTRVIDLPENITAEDLETVSRVMNAKIRGHSLNDIRITILREIYLELLRHKAVVEYIMDLIEDSGESTEDRVYLGGILNILNQPEFRNVEKMKTLLSLLDQEALLSSLLAEQAGQEEGITVLIGDEFKCDLIQGCSLVSARYGVEGRAVGALAVLGPSRMDYARVTGLVEYLTRNLSRVLEKLYR |
| 3085 | sp|B9KAB7|HRCA\_THENN | MRRLSNKGEHQRNLNDRQRKVLYCIVKEYIENKKPVSSQRVLEVSNINFSSATIRNDMKKLEYLGYIYQPHTSAGRVPTDKGLRFYYEEMVKLSKETEELNLEVDTFRSIPLADPEKVLLLAGNLLARLAEGYVLIERPNPRDLKILRVMLIPVSEDYLIFSILTEFGISKITPIRIHEDLNWEEIERQLNFLLRGRTVEDVLTGKVETLRGSGILKLIESVMNEKLERYIDVGFENLLKDDTLSLEDIKHLLEEIKDHRFLESLIGNDKDVTVKIGKEIGSKKLERFAVFSGRYYKGSSPIGSVHLFTSKITRYDRNHRVFNYVLNRLSEYFTSAARR |
| 3086 | sp|B5FBL7|HSLV\_ALIFM | MTTIVSVRREGKVVVAGDGQASQGDMIAKGNVKKVRRLYNDSVLVGFAGSTADAFILFDLCERKLEMHQGNLTKAAVELAKEWRSDRALRRLEAMLIVADKTTSLIISGTGDLINADNDLLTIGSGGYFARSAATALLENTDLDAREIATKALTIAGDIDVYTNHNHTVEELNA |
| 3087 | sp|A1RP57|HSLU\_SHESW | MSEMTPREIVHELDAHIIGQKKAKRSVAVALRNRWRRMQLDADFRQEVTPKNILMIGPTGVGKTEIARRLAKLANAPFIKVEATKFTEVGYVGKEVEQIIRDLTDIAIKLTREQQMGKCRQLAEEHAEERILDALLPKPKNDWESTDTDTGSNTRQIFRKKLREGQLDDKEIDIDVAQPQIGIEIMSPPGMEEMTNQLQSLFKNMGQAPAKRRKMKIKEAFKLLIEEEAAKLVNQEDLKEQAIEMVEQHGIVFLDEIDKICKRGETSGPDVSREGVQRDLLPLVEGCTVTTKHGMVKTDHILFIASGAFQMAKPSDLIPELQGRLPIRVELDALSADDFKRILTEPHASLTEQYVALMGTEGVKVEFTESGIESIAKAAWQVNERTENIGARRLHTVMEKLMEDISYEASDKSGSAFVIDADYVSAHLDNLVQDEDLSRFIL |
| 3088 | sp|Q9PQ68|HRCA\_UREPA | MKNTKTSQEQVIELKLSDRQKKVLKSIVDEYTISATPVSSKLLVQKEFKDQSSATIRNEMMFLEKNGLIEKQHISGGRVPSLKGYDFYNKNLINKNNNVSDNFKMRLHKILSKRYSNIDEILNAAVSIINETTQLPAVVTKTSSDELLKRIDLVKINDNSALVLIVTSSENILTHSIKLDKNTKFNDLQTCFSVLDERLVDTKLSLISSKLDLIVDIVRNKLEEVEYYFSKIVHRVFDFYAYKPNIDSKTYGVKYLTKHSEFEDQQKLNDLLNLLEDSTIWQQIALNKKTDGLAKIMLGNEIGHEHLAIATTQINLANTNHQITVVGPTRMDYAKIKALLDFLKIEIEKILGSTNEH |
| 3089 | sp|A4J7F6|HRCA\_DESRM | MKMDERKQQILLAIIKDYINTAEPVGSRTISRKYKLGVSPATIRNEMSDLEEMGYIEQPHTSAGRIPSNLGYRYYVDCLMQREQLSEEEEVTIRRGYENKVREVGEVLNRTGRMMAQLTHYTALVQMPSFRRSAYKHVQMVLMGPSQAILIVVMDTGAVHHQMMTVPESITQQDLDQISSVLNAKLQGRTMDNIRLTLIKEIYFELSKHRSILDLALELMQDRVISVAEDKIYLEGVFNILNQPEFHNVERVKILLSLLEQEDTLKDILDFTRDRQGITIKIGNENLRQEIQDCSMVTATYQVGDKILGTIGVLGPTRMDYARVVTVIDCMSRNLSRTLDRILKGQV |
| 3090 | sp|B5ZMW9|HRCA\_RHILW | MGIRSTSVSDAVAALDERSREIFRRIVEGYLESGEPLGSRNLSRLLPMSLSPASVRNVMSDLEDLGLIYSPHISAGRLPTQIGLRFFVDAFMQVGDLSAEDRASIDRQVRAESGGNPVESMMNEASRMLSGISRGAGLVITSKSDPVLKHVEFIRLEPTKALAVLVGDHDQVENRIIELPAGVTSSQLAEAANFLNAHMSGQTLPELRKQLSQLKDNVRHELDALSRDLVERGIAVWAGSPDEGKPAQLIIRGRANLLEGLAGAEDLDRLRLLFDDLEKKDSLIEILNLAETGSGVRIFIGSENKLFSLSGSSLIVAPYRDDDDRIVGAVGVIGPTRLNYSRIVPMVDYTAQLVSRLSRNPL |
| 3091 | sp|A0R0T9|HRCA\_MYCS2 | MGSADDRRFEVLRAIVADFVATKEPIGSKTLVERHNLGVSSATVRNDMAVLEAEGYITQPHTSSGRVPTEKGYREFVDRIDNVKPLSSSERRAILNFLESGVDLDDVLRRAVRLLAQLTRQVAIVQYPTLSTSSVRHLEVVALTPARLLLVVITDTGRVDQRIVELGDAIDEHELSKLRDMLGQAMEGKPLAQASIAVSDLASHLNGSDRLGDAVGRAATVLVETLVEHTEERLLLGGTANLTRNTADFGGSLRSVLEALEEQVVVLRLLAAQQEAGKVTVRIGHETEAEQMAGASVVSTAYGSSGKVYGGMGVVGPTRMDYPGTIANVAAVALYIGEVLGSR |
| 3092 | sp|B1VAB8|HRCA\_PHYAS | MLSDRKKIILKAVVESYSQKRQPVGSKSLIHLPELQFSSATIRYDMLKLEEEGFLKKNHTSSGRIPSFKGYTYYLTHLLTRDYDAANSFPLIDKVIQNKTFHKNKVIKEAIKLLNSLTSYTAMAIGPDVFNNSKISKIDFIPLNHKQALILIITNKGDVQHQNISLDQTKEISIYDLKDIVKIISDLLVGKYLSEAVKIIQSDFVKQTIAKYIRFQEQLIALFIEAFSSFASENTYFAGISEMTKKKEFSDLELIKKIMNLLERKELLKILLNQEGLSFKLSDELQLTPVKDYMILSIPFAIDANEKGTIAILGPSWMKYPKIIPLLEYLSIHLSKLNQE |
| 3093 | sp|B3QZK4|HRCA\_PHYMT | MLSNRKKIILKSIIENYSKEAKPVSSKLLTYTLHLNVSSATIRADMAELEKQGYLLKKNYNSSGRIPSFKGYNYYLNNLIKRNEEFIEMFSFVDKIIQKKSFTKEQLIKKVLELLSEFTSYTAIAIGSDILKTSKINKIDLIYLNYFELIILIVTDKGHVQHQNIVLNQKKDVNMLDIKKVIIILNDLLKGKFLFEATLIIQSDIVKKTIGKYINCEEQFIESFVEIFANFVDNNCYLSGVLNILNQPEFNNIEIIKKLINCLTKKELIKIMTIKKRLTFKFSDNIELIQLENFTIISIPYSINKYEKGQIAILGPYRMNYHKVIPLLEYLSVYLSNLYDLNN |
| 3094 | sp|B4S9D2|HRCA\_PROA2 | MKTIDLTPREREVLGIIIQAYVVSASPVSSRFIAKNYNLGLSDATIRNVMADLEDAGFISQPHTSAGRVPTDKGYRYYVDLIMMVQGIDDDEKRHIDSNLRLFTIDRKDSSEVLFAAAKVLGSISQQLSVVMSPRLSLGVFERLDMVLLSSSRIMVILSIQSLFVKTIVMELDLDVSRRQIEMVVDLLNQRLSGLTLDEIRTSIAERLADCDTDQGLLNRIVRSADELFDESPVLDRLYIAGAEYIVSQPEFDQPQKVRDLICMIEDKTRIARIVDLDGVVVPQVMTERDVSITIGRENPASTEGDFTVVTTPYFVGNTMGRLAVLGPKRMDYARVVRVVNYMADRLSTTFSDVN |
| 3095 | sp|A7Z6W3|HRCA\_BACVZ | MLTNRQLLILQVIINDFIQSAQPVGSRTLSKKDEITFSSATIRNEMADLEELGFIEKTHSSSGRIPSEKGYRYYVDHLLSPVKLTKTDLDLIHSIFKEKIFELEKTVQKSAQILSDLTNYTSIVLGPTLSENYLKQIQIVPIQPDKAVAILVTNTGHVENRTINFPAKVDLADIEKLVNILNDRLAGVPMDELNERIFKEVVTYLRQHIANYDSILESLRSTFHPAAHVEKLFFGGKINMLNQPEFHDIERVRSLLSLIEKEQDVLKLFQSSKAGISIKIGKENDYEEMENCSLITATYTVDTKQIGSIAIIGPTRMNYSRVVSLLQHVTSDLSKAFTSLYDE |
| 3096 | sp|A9AGC4|HRCA\_BURM1 | MLDPRARTLLKTLIERYIADGQPVGSRTLSRYSGLELSPATIRNVMSDLEELGLVSSPHTSAGRVPTPRGYRLFVDTMLTVETPIDAAAVARQVQSTLQAGEPQQKVVAAAASVLSNLSQFAGVVLTPRRSHVFKQIEFMRLSEKRILLIIVTPEGDVQNRMLATPRDYSPSQLTEASNYINAHFAGLSFDEVRRRLRDEIDQLRGDMTALMHAAVTASTEVPDTEDTVLISGERNLLEVADLSSDMARLRKLFDVFDQKTGLLQLLDVSSHAQGVQIFIGGESTLVPIEEMSVVTAPYEVNGKIVGTLGVIGPTRMAYNRVIPIVDITARLLSLTLSQQ |
| 3097 | sp|Q3Z4S6|HTPG\_SHISS | MKGQETRGFQSEVKQLLHLMIHSLYSNKEIFLRELISNASDAADKLRFRALSNPDLYEGDGELRVRVSFDKDKRTLTISDNGVGMTRDEVIDHLGTIAKSGTKSFLESLGSDQAKDSQLIGQFGVGFYSAFIVADKVTVRTRAAGEKPENGVFWESAGEGEYTVADITKEDRGTEITLHLREGEDEFLDDWRVRSIISKYSDHIALPVEIEKREEKDGETVISWEKINKAQALWTRNKSEITDEEYKEFYKHIAHDFNDPLTWSHNRVEGKQEYTSLLYIPSQAPWDMWNRDHKHGLKLYVQRVFIMDDAEQFMPNYLRFVRGLIDSSDLPLNVSREILQDSTVTRNLRNALTKRVLQMLEKLAKDDAEKYQTFWQQFGLVLKEGPAEDFANQEAIAKLLRFASTHTDSSAQTVSLEDYVSRMKEGQEKIYYITADSYAAAKSSPHLELLRKKGIEVLLLSDRIDEWMMNYLTEFDGKPFQSVSKVDESLEKLADEVDESAKEAEKALTPFIDRVKALLGERVKDVRLTHRLTDTPAIVSTDADEMSTQMAKLFAAAGQKVPEVKYIFELNPDHVLVKRAADTEDEAKFSEWVELLLDQALLAERGTLEDPNLFIRRMNQLLVS |
| 3098 | sp|Q3KLV9|HRCA\_CHLTA | MENRIEMSQLRASKKDSKISYVLLMATKLYLESSQPVGSKLLKETYCSDLSSATIRNYFAQLETDGFLRKNHISGGRIPTDLAFRYYVDHNVPFLEQEEILAIQQKLTELPEYSKNIVKDLQKASEVLSDILQLPVCFSSPRFESDSVINIQLVAIDDQRVVFVLSTEFGQVFTDVLWLPEQLPENSLKRIEGFLQNYLRKQPSDGLLSQKEEDLGMVLYNEVVVRYLTRYCHFSEEDLYQTGLSRLLKYGTFKEPETLAQGLAFFENRKHMCQLLNTYLHKETPTAFIGRELADIVGNTDPSCAVITIPYYMDHTPLGAFGVLGPMNLPYQQVFGTLSLFTERLKVILTQSFYKFKLSFRRPCPTDPRCSQRPAELTRSSSIKLLPAKELS |
| 3099 | sp|A0LSZ6|HRCA\_ACIC1 | MLDERKLEVLRAIVEDFVSTNEPVGSKALVERHHLKVSPATVRNDMAALEDEGYIVQPHTSAGRVPTKKGYRLFVDRLSTIKPLSVAERRAIEHFLAGAVDLDDVISRTVRLLAQLTRQVAVVQYPTLDRSAVRHLELIRLSGTRVLLVVITDTGRVEQRQIDLPGELEETDTAELRNRLNAAIAGKRVVDVPDLLATFADGEPPARRSAATAIVSAVLDALVIRRDERVVVGGAANLARFPTDFPESVQPVLEALEEQVVLIRLLGEATRPSEVLVRIGEEDVHEGLRSTAVVSSAYGSKGRALASLGVVGPMRMDYPTTMAAVAAVARYVGRILAEN |
| 3100 | sp|Q8MPA5|HSPG7\_DICDI | MATIFDILNTLNNNNFENCKRQCSTNKSNKTIIDILPPMDVTMTNDKLIIETELAGISKDQIEIDIKDSILTIQGEKKKNLNKQQQQLVIEKSSTSPSSSTLDSKENGPSIEEFEDDIKPKSTTSTTTVSTATTTKENKEDENKTKSSDKKFISERSFGNFKRYLDLTKVLYQLDLNSINTQFENGLLTITINKKLHYSNTIKININ |
| 3101 | sp|P0C060|IBPB\_SHIFL | MRNFDLSPLMRQWIGFDKLANALQNAGESQSFPPYNIEKSDDNHYRITLALAGFRQEDLEIQLEGTRLSVKGTPEQPKEEKKWLHQGLMNQPFSLSFTLAENMEVSGATFVNGLLHIDLIRNEPEPIAAQRIAISERPALNS |
| 3102 | sp|Q0T8Y2|IRAD\_ECOL5 | MMRQSVQTVLPESTGNNTLSLRDSVCRDLFQLFSSPHSPLPILLVSGMPEWQGHNQSDKLLQSWYCRQLRSALLFHEPRIAALQVNLKEAYCYELAISLEMMLYHDDEPLTFDLVWQKGSWHRTMPQ |
| 3103 | sp|B5RE89|IRAD\_SALG2 | MMTPTIPVALFDRLLVEGISPHELVRRKLMCLFNSCAVPGGETLPPLLTRGMPEWHEVNVGDKRVLNWFCRELRAAILRYEPSINMLKVSVKDAHHQTLALSLEAMLQDESEPLRLEIAYSNGRWR |
| 3104 | sp|Q8FAA2|IRAD\_ECOL6 | MMRQSVQTVLPESTGNNTLSLRDSVCRDLFQLFSSPHSPLPILLVSGMPEWQGHNQSDKLLQSWYCRQLRSALLFHEPRIAALQVNLKEAYCHELAISLEMMLYHDDEPLTFDLVWQKGSWHRTMPQ |
| 3105 | sp|B1XA47|IRAM\_ECODH | MKWIVIDTVIQPTCGISFSAIWGNMKMIIWYQSTIFLPPGSIFTPVKSGIILKDKEYPITIYHIAPFNKDLWSLLKSSQECPPGESKITNKCLHNSCIIKICPYGLK |
| 3106 | sp|Q8ZRF7|IPRA\_SALTY | MLSLSKPLQEFYRLDKCLSKHGTRFEFVNDKEIICSPDESNTHTFVILEGVVSLVRGDKVLIGIVQAPFIFGLADGVAKKEAQYKLIAESGCIGYRLSSSQTLAIIEQNQLWREAFCWIVWKSQVLELRDKQLIGNNSYDQIRATLMTMIEWDEELRSRIGVMNYIHQRTRVSRSVVAEVLAALRKGNYIEMNKGKLISINRLPSEY |
| 3107 | sp|C1CZ84|IRRE\_DEIDV | MTDPAPPPTALAAAKARMRELAASYGAGLPGRDTHSLMHGLDGITLTFMPMGQRDGAYDPEHHVILINSQVRPERQRFTLAHEISHALLLGDDDLLSDLHDEYEGDRLEQVIETLCNVGAAALLMPAELIDDLLTRFGPTGRALAELARRADVSATSALYALAERTAPPVIYAVCALSRQEDEGEGGGAKELTVRASSASAGVKYSLSAGTPVPDDHPAALALDTRLPLAQDSYVPFRSGRRMPAYVDAFPERQRVLVSFALPAGRSEPDADKPEAPGDQS |
| 3108 | sp|P46515|LEA11\_HELAN | MQSGKNAAASAKETAANVAASAKAGMEKTKASLQEKGEKMTAHDPMQKEMAREKKEERKHEAEYEKQAAKEHNAAQKQTTGIGTGTHSYTTTNVTGHRTGTGGI |
| 3109 | sp|P46521|LEA5A\_GOSHI | MARSVSSFKFLGASVFDALYVSISRRGYSGAPPAAVTASFGRPGAMGKVERRYAMKESSSSETRAYSSAWAPDPVTGYYRPENCGAEIDAADLREMMLNHRVRSQ |
| 3110 | sp|A2Y720|LEA19\_ORYSI | MASHQDQASYRAGETKAHTEEKAGQVMGASKDKASEAKDRASEAAGHAAGKGQDTKEATKEKAQAAKERASETAQAAKDKTSGTAQAARDKAAESKDQTGGFLGEKTEQAKQKAAETAGAAKQKTAETAQYTKDSAIAGKDKTGSVLQQASEQVKSTVVGAKDAVMSTLGMTEDKAGTDDGANKDTSATAAATETTARDH |
| 3111 | sp|Q31GE9|LON1\_HYDCU | MDIDQIEFKTNVFVLALRDVVVFPGMVVPLFVGRPKSMNALNAAMKEDKQIFLVTQKNATEETPTIDNLYQTGVMANILQLLKLPDGTLKVLVEGVKRFELLALNDEENFLTGDIQQVESDEQLDNDGVVLVRTIQERFQDYAALKKKIPSEVLKSVQKITDPNRLVDTISANLKLGIEEKQTLLEILTINDRLEHILKTIETEIDLLESEQRINSRVKKKMDQTQRNFYLNTKLQAIHEELGDSSEDGVSEFTRLKEQIEQAGMTKDALKVAEDELKKLKMMSPQSPEANIIRTYIEWLVSIPWKKRSRVSKDLNKAQTILDKQHYGLEKVKERIIEYLAVQKRVNKMKGPILCLVGPPGVGKTSLARSIAEATNRKYVRMSLGGVRDEAEIRGHRKTYLGALPGRVIQKMKTAGTRNPLFLLDEIDKMARDLRGDPASALLEVLDPEQNKAFNDHYLEVDYDLSDVMFVATSNSMDIPEALLDRMEIIDLAGYTENEKLNIATQHLLPREIKEHGLKQGELEVPSDTILKIIQTYTREAGVRLLDQSLAKICRKSLKEIVTNEAKAPITVTPDTLDKYLGVAKYRFGLADETNQIGQVAGLAWTRVGGDLLRIEATAMPGKGKNTSTGQLGSVMQESTQAAMSVIRSRSKELGLPDDFYEKQDVHLHFPEGAIKKDGPSAGIAICTAIASVLTQIPVRSDVAMTGEITLRGEVLPIGGLKEKLLAAARGGIKTVLIPYENVRDLAEISDEVKEGLDIHPVQWIDEVFKIALESFPNVENDEISAISMKDAEMGKLVANKQSTKEIQKKSPKRH |
| 3112 | sp|O84348|LON\_CHLTR | MNSTNNTDSQNLDPNASEVEKLLDESAEAEEKVDDHTPPSELFILPLNKRPFFPGMAAPLLIEAGPHYEVLTLLAKSSQKHIGLVLTKKEDANTLKVGFNQLHRVGVSARILRIMPIEGGSAQVLLSIEDRIRIVKPIQDKYLKAKVSYHKENKELTEELKAYSISIVSIIKDLLKLNPLFKEELQIFLGHSDFTEPGKLADFSVALTTATREELQEILETTDMHDRIDKALVLLKKELDLSRLQSSINQKIEATITKSQKEFFLKEQLKTIKKELGLEKDDHAVDLEKFMERFNKRDVPQYAMDVIQDEMDKLQTLETSSAEYAVCRNYLDWLTIVPWGIQTKEYHDLKKAESILNKDHYGLEDIKQRILELISVGKLANGMKGSIICLVGPPGVGKTSIGRSIAKVLHRKFFRFSVGGMRDEAEIKGHRRTYIGAMPGKLVQALKQSQIMNPVIMIDEVDKIGSSYHGDPASALLEVLDPEQNKDFLDHYLDVRVDLSNVLFILTANVLDSIPDPLLDRMEVLRLSGYILEEKLQIATKYLVPRARKEMGLSAQNVTFQPEALKHMINNYAREAGVRTLNENIKKVLRKVALKIVQNQEKNLSKKSRFTITPKNLQDYLGKPVFSSDRFYEKTPVGVATGLAWTSLGGATLYIESVQVPSSSGKADMHLTGQAGDVMKESSQIAWTYLHSALERYAPGQPFFEKSQVHIHIPEGATPKDGPSAGITMVTSLLSLLLDVPVLNNLGMTGELTLTGRVLGIGGIREKLIAARRSKLNILIFPEDNRRDYDELPAYLKKGLKVHFVTHYDDVFKIAFPGV |
| 3113 | sp|A6LSV5|LON\_CLOB8 | MINLDDKNNIGRVIPVSDIVLLPGMYHTLKFNKFSETQIESLSDEDIVNIALPLKQNFGQSKLKEEDFHRVGVTFQVNAIEKTEKGYKAEIKILDRVEIKTFSIEEDSIKAEFEFAPDIIDLTEKSKDEMVEYIKKVTREISENFKGSEKFMLAVEGQKDLNKLMGYLSHFMQISSEEKYDLLETQSLKDRGLKFIDYLLKQKESLKLQFELAEKFTEKANKNYRETVLREQLKAIQEELNEGKSSPSKKDKNYLNRIEEAQMPDEIKEVALEELGKLESQSPNSAEYNVIKNYLELLIQLPWKKQEFKDIDLEEARRILDEQHYGLEKVKDRIIQHLAVMQLKNDKKGSILLLVGPPGVGKTSLGKSIAEALNRKYVRLSLGGVRDEAEIRGHRRTYVGAMPGRIIQSIKKAGEINPVMVLDEVDKLMASYNGDPASALLEVLDPEQNDTFTDHYLDVPYDLSNVFFIATANSLDTIPRPLLDRMEVIQISSYTMNEKFHIGKNHLISAVLEEHGLNDTQLVIEDAALERIISEYTLEAGVRGLKKQIATIARIASEKIVSNKVELPFKVKEDDLEDLLGRKVSSHDKAQDDNVPGVVTGLAWTSVGGEILFIEATGMLGSGQIVLTGQLGDVMKESAQISLSLLKSRLPINAINFRERDIHIHVPSGSVPKDGPSAGIALFTALASLVTGIKVDSKLAMTGEITLRGAVLPIGGLKEKLLGAQRAGITKVLIPKDNVVDLNEVPQEVKEQLTIIAVETVEDVLRETLGISLPRIEHIFNPNKFIEGTFKPAEE |
| 3114 | sp|P80192|M3K9\_HUMAN | MEPSRALLGCLASAAAAAPPGEDGAGAGAEEEEEEEEEAAAAVGPGELGCDAPLPYWTAVFEYEAAGEDELTLRLGDVVEVLSKDSQVSGDEGWWTGQLNQRVGIFPSNYVTPRSAFSSRCQPGGEDPSCYPPIQLLEIDFAELTLEEIIGIGGFGKVYRAFWIGDEVAVKAARHDPDEDISQTIENVRQEAKLFAMLKHPNIIALRGVCLKEPNLCLVMEFARGGPLNRVLSGKRIPPDILVNWAVQIARGMNYLHDEAIVPIIHRDLKSSNILILQKVENGDLSNKILKITDFGLAREWHRTTKMSAAGTYAWMAPEVIRASMFSKGSDVWSYGVLLWELLTGEVPFRGIDGLAVAYGVAMNKLALPIPSTCPEPFAKLMEDCWNPDPHSRPSFTNILDQLTTIEESGFFEMPKDSFHCLQDNWKHEIQEMFDQLRAKEKELRTWEEELTRAALQQKNQEELLRRREQELAEREIDILERELNIIIHQLCQEKPRVKKRKGKFRKSRLKLKDGNRISLPSDFQHKFTVQASPTMDKRKSLINSRSSPPASPTIIPRLRAIQLTPGESSKTWGRSSVVPKEEGEEEEKRAPKKKGRTWGPGTLGQKELASGDEGSPQRREKANGLSTPSESPHFHLGLKSLVDGYKQWSSSAPNLVKGPRSSPALPGFTSLMEMEDEDSEGPGSGESRLQHSPSQSYLCIPFPRGEDGDGPSSDGIHEEPTPVNSATSTPQLTPTNSLKRGGAHHRRCEVALLGCGAVLAATGLGFDLLEAGKCQLLPLEEPEPPAREEKKRREGLFQRSSRPRRSTSPPSRKLFKKEEPMLLLGDPSASLTLLSLSSISECNSTRSLLRSDSDEIVVYEMPVSPVEAPPLSPCTHNPLVNVRVERFKRDPNQSLTPTHVTLTTPSQPSSHRRTPSDGALKPETLLASRSPSSNGLSPSPGAGMLKTPSPSRDPGEFPRLPDPNVVFPPTPRRWNTQQDSTLERPKTLEFLPRPRPSANRQRLDPWWFVSPSHARSTSPANSSSTETPSNLDSCFASSSSTVEERPGLPALLPFQAGPLPPTERTLLDLDAEGQSQDSTVPLCRAELNTHRPAPYEIQQEFWS |
| 3115 | sp|Q1B3X9|MPRB\_MYCSS | MTLPPPPSRLKPPRNTSSLSLRWRVMLLAMSMVAMVVVLMSVAVYAVVSRALYDDIDNQLHSRARLLIESGSLAADPGKAIEGTAYSDVNAMLVNPGRSIYTANQQGQTLPLGEAEKDVISGELLLSLRTANHQRILAVHLTNGSSLLISKSLAPTGQVLGRLGTVLLIVGGVGVAVAAIAGGMVARAGLRPVGRLTQAAERVARTDDLRPIPVFGSDELARLTEAFNMMLRALTESRERQARLVSDAGHELRTPLTSLRTNVELLMASQAPGAPRLPEEEMAGLRADVIAQIEELSTLVGDLVDLTRDEAGGVVYETVDMAEVVDRSLERVRRRRNDIEFDVNVVGWQVYGDAAGLARAVLNLLDNAAKWSPPGGRVGVRLTQTDPVHAELVVSDQGPGIPEAERRLVFERFYRSTAARAMPGSGLGLAIVKQVVLKHGGALRVEDTVPGGNPPGTSFYVMLPGRPLTPGGNGTAPVPAAQFDPDMRSAGSRADRRVIKNTETNGKSRSASKEL |
| 3116 | sp|O14050|MSY2\_SCHPO | MNEHRREPHRRSGYQDDSAFTNTEKLVDELDHNVEPEQLLEKNRTDFKLMYVIVKFYRWFNNLSFITRWITIWFPLAGALVIPLAVGVSPYPNAKLGGVRIFWIFVWLEVAWGGFWVSRVIARLLPYILYPLMGILPFTMYKYTVILTALEMPLAIFFCSIVCVCTFSPIMIGKGNFTSTTVTTTTSATATPTASASSNAVESVFVTKTAASVPSWIKVITKILGAAVVTSIVLLLEKIFLHFIGFHYHEVQYQYRITDNKRNTAVLAKLLTAALDAPYHDSPRVRRQDYLLGLIDTRSMSESKGSGNGKLRKVKKISKNAKRIFSKTRNAISTAFTDMLGKHAKDLTPEQEFILETIRSKKKCLALARKIWYSLVPEGEDCFQKEDLIGLIPDDEINDIFHILDNDYSRTVTLDEMEQFTREISIEFRSISSSLRDVDLALGKLDRVGLGVVGIIAVLTFISFLDTSFATILAAFGTTLLSLSFVFSTSAQELMSSIIFLFSKHPFDISDVVIVNNIKYEVVSLSLLFTVFRTMGGSTVQAPNSLLNTLFIENLRRSQPQSETITIVSPFATDFKQLERLRDLLLTFVKENERDFRPIIDLNVSDFSTLDSLKFTVTYYYKSNWQNVSLQCVRRNKFMCALKNAIATTNLPAVADPVRGSPDYPFVIEQYNLERPEYSKTASRPQFSDISSTASSNSLSNKPGFAHSESRNYHTHDEDNSSDDNHKREDRGHLPAQYLRQSVATWQIPNLISAIEAYDSQNESSQENATYTVVESNGNANGDNTATNSQGATDNGQTTTNTTQNNVDNTQATTDNTQANTDNMQVAIDYSQNMDGQIQY |
| 3117 | sp|G8QM64|MRPX\_AZOOP | MKKLAAVMLTSCLMVAVGASFADEMKKDDMKKDVMMKKDDMAKDEMKKDSMAKDGMKKDAMKKDAMMKKDGMTKDEMKK |
| 3118 | sp|Q9CD68|MPRA\_MYCLE | MRILAVDDDRAVRESLRRSLSFNGYSVELANDGVEALEMVARDRPDALVLDVMMPRLDGLEVCRQLRSTGDDLPILVLTARDSVSERVAGLDAGADDYLPKPFALEELLARIRALLRRTKPDDAAESVAMSFSDLTLDPVTREVARGQRWISLTRTEFALLEMLIANPRRVLTRSRILEEVWGFDFPTSGNALEVYVGYLRRKTEADGESRLIHTVRGVGYVLRETPP |
| 3119 | sp|Q5MBR3|NCED5\_ORYSJ | MPTTFTPNSPASSCSIHHRASPSRGARNSVRFTRPRAAAAATNSVLSAPSSVPPAYVPPPPPPPTKMFPEAGDAAAAKAAARRCGKKKDGLNFFQRAAAVALDAFEEGFITNVLERPHALPRTADPAVQIAGNFAPVGEQPPVRSLPVSGRIPPFINGVYARNGANPHFEPTAGHHLFDGDGMVHAVRIRNGAAESYACRFTETARLGQERALGRAVFPKAIGELHGHSGIARLALFYARGLCGLVDPSHGTGVANAGLVYFNGRLLAMSEDDLPYQVRVTADGDLETVGRYDFDGQLGCAMIAHPKLDPVSGELFALSYDVIKKPYLKYFYFDADGTKSPDVEIELEQPTMIHDFAITENFVVVPDHQVVFKLGEMFRGGSPVVLDREKTSRFGVLPKHATSSLEMVWVDVPDCFCFHLWNAWEEAESGEVVVVGSCMTPADSIFNESDEHLESVLTEIRLNTRTGESTRRAVLPPAAQVNLEVGMVNRAMLGRKTRYAYLAVAEPWPKVSGFAKVDLATGELTKFEYGEGRFGGEPCFVPMGGAGAAASPARGEDDGYILSFVRDEAAGTSELLVVNAADMRLEATVQLPSRVPYGFHGTFINAGELATQA |
| 3120 | sp|Q9M0Y5|MYB74\_ARATH | MGRSPCCEKKNGLKKGPWTPEEDQKLIDYINIHGYGNWRTLPKNAGLQRCGKSCRLRWTNYLRPDIKRGRFSFEEEETIIQLHSIMGNKWSAIAARLPGRTDNEIKNYWNTHIRKRLLKMGIDPVTHTPRLDLLDISSILSSSIYNSSHHHHHHHQQHMNMSRLMMSDGNHQPLVNPEILKLATSLFSNQNHPNNTHENNTVNQTEVNQYQTGYNMPGNEELQSWFPIMDQFTNFQDLMPMKTTVQNSLSYDDDCSKSNFVLEPYYSDFASVLTTPSSSPTPLNSSSSTYINSSTCSTEDEKESYYSDNITNYSFDVNGFLQFQ |
| 3121 | sp|Q1E1H4|NST1\_COCIM | MPSNSKRSMAPPTNVSKQISATSTSKKAPTKPTTQNSIAGAKSTGSPETRTSSPEHMESPETPTATTTVNRKKQKRRQKQAARLAAERQSSNMPAQNGDGGHDIVADFSRAATQGQHAAFDNDDLDYTDDETHYSTQGQRGLQHDKNGVLHQSQEPSKRKGKKKKNRKSRSQSHQAEGSSTSMSTPSASLARPVTLPPLSSSAYRSAHKVTKDRIWNTSTHEERERIKEFWLQLGEEERRSLVKVEKEAVLRKMKEQQKHSCSCTVCGRKRTAIEEELEVLYDAYYEELEQYANHKQGSFENGAPIGAPPRLYQPPLRTLDRHSHHPVAQHPSRGRVQELPDDDEDLDDDYDEDDEDDEPYSEDELEDAARTTRADFFAFGNSLTVKDGILTVADDLLKNDGKHFIDMMEQLAERRMQREEDTQYAAASAAHQSMHAGHNHGPPLDEEEYDDEEEEDYDSQDDEEYEEDEMDAMTEEQRMEEGRRMFQIFAARMFEQRVLTAYREKIARERQERLIEELEEENRLDVEREAKKAREAQKRKDKKKLQKQAKEEERAKREAERAAEEAAQKALEEKRLEEQRRKKEEQRKKREAEKKAQEEERQRKEAERQKRLKEERERQAEFERKQREQKEREKKKREEAKKREREEKEAKERELREKKIKEERERREREEKARQEKEAAAKAERESREKAKREEQAAQQAAAQAAAVQAAKRASQSGPTHLPPGLQHPQGPSALQSPHFQVATPVVPKAPTPIRPRQPSQQGSHASSPRSQPAHVDISQTSSLSPGSVSTTIPGKGVSQAPLLHHPQPSAPLSPLGGVGRGSHTLGFSPMQSLNGLPTNPGTIPAMGPRMPMAHDMSMYTNHSGPLGGQYRGFASPDSIPLPPGITGPRHLGQGRGFQMEVGHTSLPFHPQPNAAGPISAAAPQSSQNSGASLTHTRQPSISFERNQHETQPQSQPISRPAPIQRPASTVPHDQHKDESKTNQQEIDELSTQLGSSALLDDSDIPLTAPPSQPLSSALPPGLPGAGRIGFAGPSLFSDHLGSSKPHFSLGAPGSGAGWAHNPFGSPGFPAAPSWGPSSGAGWPTNAFGILGGSHRAHTSRPVAIRLSVIQACKQLNTTSGTDSSGYHNVNQILRQVEQLNSPNESQIGLDEMLDICDTEGNPQNGGGSFIIKNEGPKGTFVKFEPDNNSISSSTRGSVVPGDIGSPVPGSSLPTPGSGSRQFATTNISPTTGF |
| 3122 | sp|Q9FVQ1|NUCL1\_ARATH | MGKSKSATKVVAEIKATKPLKKGKREPEDDIDTKVSLKKQKKDVIAAVQKEKAVKKVPKKVESSDDSDSESEEEEKAKKVPAKKAASSSDESSDDSSSDDEPAPKKAVAATNGTVAKKSKDDSSSSDDDSSDEEVAVTKKPAAAAKNGSVKAKKESSSEDDSSSEDEPAKKPAAKIAKPAAKDSSSSDDDSDEDSEDEKPATKKAAPAAAKAASSSDSSDEDSDEESEDEKPAQKKADTKASKKSSSDESSESEEDESEDEEETPKKKSSDVEMVDAEKSSAKQPKTPSTPAAGGSKTLFAANLSFNIERADVENFFKEAGEVVDVRFSTNRDDGSFRGFGHVEFASSEEAQKALEFHGRPLLGREIRLDIAQERGERGERPAFTPQSGNFRSGGDGGDEKKIFVKGFDASLSEDDIKNTLREHFSSCGEIKNVSVPIDRDTGNSKGIAYLEFSEGKEKALELNGSDMGGGFYLVVDEPRPRGDSSGGGGFGRGNGRFGSGGGRGRDGGRGRFGSGGGRGRDGGRGRFGSGGGRGSDRGRGRPSFTPQGKKTTFGDE |
| 3123 | sp|P94358|ALDY\_BACSU | MSFETLNKSFINGKWTGGESGRTEDILNPYDQSVITTASLATGKQLEDAFDIAQKAQKEWAKSTTEDRKAVLQKARGYLHENRDDIIMMIARETGGTIIKSTIELEQTIAILDEAMTYTGELGGVKEVPSDIEGKTNKIYRLPLGVISSISPFNFPMNLSMRSIAPAIALGNSVVHKPDIQTAISGGTIIAKAFEHAGLPAGVLNVMLTDVKEIGDGMLTNPIPRLISFTGSTAVGRHIGEIAGRAFKRMALELGGNNPFAVLSDADVDRAVDAAIFGKFIHQGQICMIINRIIVHQDVYDEFVEKFTARVKQLPYGDQTDPKTVVGPLINERQIEKALEIIEQAKTDGIELAVEGKRVGNVLTPYVFVGADNNSKIAQTELFAPIATIIKAGSDQEAIDMANDTEYGLSSAVFTSDLEKGEKFALQIDSGMTHVNDQSVNDSPNIAFGGNKASGVGRFGNPWVVEEFTVTKWISIQKQYRKYPF |
| 3124 | sp|P92981|APR2\_ARATH | MALAVTSSSTAISGSSFSRSGASSESKALQICSIRLSDRTHLSQRRYSMKPLNAESHSRSESWVTRASTLIAPEVEEKGGEVEDFEQLAKKLEDASPLEIMDKALERFGDQIAIAFSGAEDVALIEYARLTGKPFRVFSLDTGRLNPETYRLFDAVEKQYGIRIEYMFPDAVEVQALVRNKGLFSFYEDGHQECCRVRKVRPLRRALKGLKAWITGQRKDQSPGTRSEIPIVQVDPVFEGLDGGVGSLVKWNPLANVEGADVWNFLRTMDVPVNALHAQGYVSIGCEPCTRPVLPGQHEREGRWWWEDAKAKECGLHKGNIKEEDGAADSKPAAVQEIFESNNVVALSKGGVENLLKLENRKEAWLVVLYAPWCPFCQAMEASYIELAEKLAGKGVKVAKFRADGEQKEFAKQELQLGSFPTILLFPKRAPRAIKYPSEHRDVDSLMSFVNLLR |
| 3125 | sp|Q03197|API10\_SOLTU | MMKCLFLLCLCLVPIVVFSSTFTSQNLIDLPSESPLPKPVLDTNGKELNPNSSYRIISIGRGALGGDVYLGKSPNSDAPCPDGVFRYNSDVGPSGTPVRFIPLSGGIFEDQLLNIQFNIPTVRLCVSYTIWKVGINAYLRTMLLETGGTIGQADSSYFKIVKSSILGYNLLYCPITRPILCPFCRDDDFCAKVGVVIQKGKRRLALVNENPLDVNFKEV |
| 3126 | sp|Q8GTS1|BZP24\_ARATH | MFCCCKDCRGNQRVSNFDSLTGVFFGDLEFGPQNQRYIKMNEEEDKDQDRVTRGCSHTHSCNPPGPEDASHSHTCFHAHTHLIISDQQENDHSDSSNKKRLCGNREAVRKYREKKKARTAYLEDEVMRLQSLNEQFLRKLQSQEMVETELIRLRALLVEMQGKIEVELCSFSFQKQCNGSGFVFKEDGCNLATSNMMCEAARVECEEGQTLHDPIQSFVPQPPPFSR |
| 3127 | sp|B1IA51|GRPE\_STRPI | MAQDIKNEEVEEVQEEEVVETAEETTPEKSELDLANERADEFENKYLRAHAEMQNIQRRANEERQNLQRYRSQDLAKAILPSLDNLERALAVEGLTDDVKKGLGMVQESLIHALKEEGIEEIAADGEFDHNYHMAIQTLPADDEHPVDTIAQVFQKGYKLHDRILRPAMVVVYN |
| 3128 | sp|Q88VL9|GRPE\_LACPL | MAKKSTRTTPEDSQASTTDSAATSTASEATQAATSATDDQAEQTTAVDPTQQITDLKAQLDAKDDQLLRAQAEIVNMQNRNKKEQAALLKYDGQALAKDVLPVLDNLERALATPADDEAAQQLKKGVEMVYGHLQDALKKHGVTEVAAAGEKFDPNIHQAVQTVPVDDDHPADTVVQVLQRGYLLKDRTLRPAMVVVAQ |
| 3129 | sp|Q84BU5|GRPE\_LACAC | MSKEEFPSEKNLDKEENTSKPKKAVKKEAAKGEETKKNNENQKLAKEIADLKEKNKDLEDKYLRSEAEIQNMQNRYTKERAQLIKYESQSLAKDVLPAMDNLERALSVEADDDVSKQLKKGVQMTLDALVKAMKDHGVVEIEADGVKFDPTLHQAVQTVAAENDDQKDHVVQVLQKGYQYKDRTLRPAMVVVAQ |
| 3130 | sp|Q73Q17|GRPE\_TREDE | MKKNHEKHADKKEAAKEELEKDLQPKDESAVKDEQGAGCGCETSKENPQEDKAEQNSSTGGKCEKNDDVLSPEKRIEELEAKCRDWQDQYLRKAADFENYRKRMIREKQEAIDYANSNLLLDLVQVLDDFDRAIDAGKTQGGESVNNAFVEGVVMIKNQMVSMLSSKYGLSYYPAKGEAFDPNLHEAVSMIQSPDVKEAVVGEELQKGYKLKERVIRHSKVMVLMPAEKQDEKKAEESEAADKKNEN |
| 3131 | sp|Q6MT05|GRPE\_MYCMS | MTEELKNKKINKKYYSQNRNKTKAEFQKADIKKNQYLNLKTKLNNVLLEVQNLKELNETLKKELKSEKQLNLAEISNLTKKYNQKELETKKYGASNLAKDLIQPLEILKKVVNAPNNNEVVQAYVKGFEMIINQINNVLESHHIKAMNVKVGDMFDPHLHDANEAVETDEYKTNQIVGVLSDGYMIHDKVLVYAIVKVAK |
| 3132 | sp|C3PP76|GRPE\_RICAE | MIDDNIENNEQTINDIAEEIVETANPEVTALKAEIEELKDKLIRTTAEIDNTRKRLEKARDEAKDYAIATFAKELLNVSDNLSRALAHKPANSDVEVTNIIAGVQMTKDELDKVFHKHHIEEIKPEIGSMFDYNLHNAIAQIEHPDHAPNSIITLMQSGYKIRDRLLRPATVQVVKKP |
| 3133 | sp|Q71ZJ6|GRPE\_LISMF | MSEKKNKKERLADEIEQEELNILDETEETVEEEAAADTLTEEQAKILELENKLDEVENRYLRMQADFENVKKRHIADRDASQKYRSQSLAQDLLPALDSFEKALATTSDQEEVKQILKGMEMVYNQILVAFEKEGIEVIPAVGEQFDPNFHQAVMQDSDENAGSNEITAELQKGYKLKDRVIRPSMVKVNQ |
| 3134 | sp|Q9KWS8|GRPE\_PARTM | MEKERDVAQEQATYEQESPNAERQEELKENEHQEKNAPEEQEKVREENGRQDAQKDEIGDPEKAKEEQNEELAAANAKIAELEAKIKEMENRYLRLYADFENFRRRTRREMEAAEKYRAQSLVSDLLPVLDNFERALKIKAEDEQAKSILQGMEMVYRSVLDALKKEGVEAIEAVGKPFDPHLHQAVMQVEDSNYEPNTVVEELQKGYKLKDRVIRPAMVKVSQ |
| 3135 | sp|A5W9A4|GRPE\_PSEP1 | MADEQLNEKDLNVEETGAGNAADTRVLELEEQLAAAKDQALRAVADLQNVRRRAEQDVEKAHKFALEKFSSDLLPVIDSLELALAHSSAEDEHVKQIREGVELTLKMFQDTLKRYNLEAVDPHGQPFNPEHHQAMAMQENAEVEPNSVLNVFQKGYLLNGRLLRPAMVVVSKAPSAAQPSINEKA |
| 3136 | sp|B4TS61|GRPE\_SALSV | MSSKEQKTPEGQAPEEIIMDQHEEVEAVEPNDSAEQVDPRDEKIANLEVQLAEAQTRERDTVLRIKAEMENLRRRTEQDIEKAHKFALEKFVNELLPVIDSLDRALEVADKANPDMAAMVEGIELTLKSMLDVVRKFGVEVIAETNVPLDPNVHQAIAMVESEEVPAGNVLGIMQKGYTLNGRTIRAAMVTVAKAK |
| 3137 | sp|Q0HGL4|GRPE\_SHESM | MSNESIKAEQDLIQEGVESEVSTEEASLIDELTQANFRIEELEQLLADALAKVEEQKDSVIRAAAEVDNIRRRAAMDVEKANKFALEKFANELLPVLDNMERALQGTNPQDETTKAIYEGVELTQKSLLTAVAKFGVKPIDPQGQAFNPDQHQAIGMQPSAEFPANTVMLVMQKGYELNSRLLRPAMVMVSQGGPSQEINIEA |
| 3138 | sp|P31658|HCHA\_ECOLI | MTVQTSKNPQVDIAEDNAFFPSEYSLSQYTSPVSDLDGVDYPKPYRGKHKILVIAADERYLPTDNGKLFSTGNHPIETLLPLYHLHAAGFEFEVATISGLMTKFEYWAMPHKDEKVMPFFEQHKSLFRNPKKLADVVASLNADSEYAAIFVPGGHGALIGLPESQDVAAALQWAIKNDRFVISLCHGPAAFLALRHGDNPLNGYSICAFPDAADKQTPEIGYMPGHLTWYFGEELKKMGMNIINDDITGRVHKDRKLLTGDSPFAANALGKLAAQEMLAAYAG |
| 3139 | sp|C6E644|GRPE\_GEOSM | MDKKKHDSHQHEKKADASQEKVEVAQPVSDADRIKELEEALAAKGLESAANWDKYLRERADLENYRKRVQKEKEEILKYGKEEIIVEILPALDNLERAIDHANEESAIVEGVRLTLSMLLSALKKFGVTPVDTPPGTPFNPEYHQAMGQVESADQEPNTVVAVFQKGYLLNERLLRPAMVTVAVKA |
| 3140 | sp|Q56928|HFQ\_YEREN | MAKGQSLQDPFLNALRRERVPVSIYLVNGIKLQGQVESFDQFVILLKNTVSQMVYKHAISTVVPSRPVSHHSNNPSGSTNNYHGSNPSAPQQPQQDSDDAE |
| 3141 | sp|Q2YPW9|HFQ\_BRUA2 | MAERSQNLQDLFLNSVRKQKISLTIFLINGVKLTGIVTSFDNFCVLLRRDGHSQLVYKHAISTIMPSQPVQMFEGEEA |
| 3142 | sp|B9MJT7|HFQ\_CALBD | MAKGSLNLQDLFLNQLRKEKVNVTIFLLSGFQLKGVIKGFDNFTLIVETDNNKQQLIYKHAISSIMPSKPINYMAQAQNNQQASQQSNNNQG |
| 3143 | sp|Q46ZI8|HFQ\_CUPPJ | MSNKGQLLQDPFLNALRKEHVPVSIYLVNGIKLQGNIESFDQYVVLLRNTVTQMVYKHAISTVVPARAVNFRVDDSAEG |
| 3144 | sp|A4XL44|HFQ\_CALS8 | MAKGNLNLQDLFLNQLRKEKVNVTIFLLSGFQLKGVIKGFDNFTLVVETENNKQQLIYKHAISSILPSKPINYMAQVQNSQVQNTASQQSNNNQNQESK |
| 3145 | sp|A8GL96|HSLU\_SERP5 | MSEMTPREIVSELDSYIIGQNKAKRAVAIALRNRWRRMQLNEMLRHEVTPKNILMIGPTGVGKTEIARRLAKLANAPFIKVEATKFTEVGYVGKEVDSIIRDLTDAAIKMVRLQSIDKNRTRAEELAEERILDVLIPPAKNNWGQAEEHQEPSSARQAFRKKLREGQLDDKEIEIDLAAAPMGVEIMAPPGMEEMTNQLQSMFQNLGGQKQKPRKLKIKEAFKLLVEEEAAKLVNPEELKEQAIEAVEQHGIVFIDEIDKICKRGGQSSGPDVSREGVQRDLLPLVEGCTVSTKHGMVKTDHILFIASGAFQTASPSDLIPELQGRLPIRVELQALTTEDFERILTEPSASLTEQYKALMGTEGVNIEFTAEGIRRIAEAAWQVNESTENIGARRLHTVLERLMEDISYDASEINGQSITIDADYVRNHLDELVADEDLSRFIL |
| 3146 | sp|A0RIT5|HRCA\_BACAH | MLTERQLLILQTIIDDFIGSAQPVGSRTLAKKDAITFSSATIRNEMADLEELGFIEKTHSSSGRVPSEKGYRFYVDHLLAPQNLPKDEIVQIKDLFAERIFEAEKIAQQSAQILSELTNYTAIVLGPKLSTNKLKNVQIVSLDRQTAVAIIVTDTGHVQSKTITVPESVDLSDLEKMVNILNEKLSGVPMSELHNKIFKEIVTVLRGYVHNYDSAIKMLDGTFQVPLSEKIYFGGKANMLSQPEFHDIHKVRSLLTMIDNEAEFYDILRHKQVGIQVKIGRENSATAMEDCSLISATYSIGEEQLGTIAILGPTRMQYSRVISLLQLFTRQFTDGLKK |
| 3147 | sp|Q5WHG3|HRCA\_BACSK | MLTERQLLVLHAIVDDYVRSAEPVGSRSISKREDIPYSPATIRNEMADLEELGFLEKPHSSAGRVPSQQGYRYYVDHLLSPHRLTVAERAGLSRLTTARLQAMEEVFQESARILSEMTSYVSIVLGPESINERLRHIQIIPMSNQKAVVILVSENGHVENRLVQVDENVTPSDLERTVNLLNERLVGTPLSSLQRKLNTELAQLFKAHINNYEHILHMLQQSMVPASGEKLFFSGKTNLMEQPEFQDVEKMRLLYKALEEENLLQKWLRAQQTDGLHVSIGQENELEAFESCSVITASYAIDGRHVGTLGVIGPTRMEYKRMIKVVDSLSKDLTKRLTGFER |
| 3148 | sp|B9J7U0|HRCA\_AGRRK | MGFTTSSVTDAIAALDERSKEIFRRIVEGYLENGEPLGSRNLSRLLPMSLSPASVRNVMSDLEELGLIYSPHISAGRLPTQIGLRFFVDAFMQVGDLSAEDRATIDRQVRGSNRDQPMESVMTEASRMLSGISRGAGLVITSKNDPVLKHVEFIRLEPTKALAVLVGDHDQVENRIIELPAGITSSQLTEAANFLNAHMTGQTLPDLRRQLLTLKESVRHELDTLSHELVERGIAVWSGGEDEGKPTQLIVRGHANLLTEVGGAEDLDRLRLLFDDLEKKDSLIEILNLAESGPGVRIFIGSENKLFSLSGSSLIVAPYRDDDDRIIGAVGVIGPTRLNYARIVPMVDYTAQLFSRMSRPGL |
| 3149 | sp|Q21XX3|HRCA\_RHOFT | MLDDRAKLLLKALVERYIADGQPVGSRTLSKASGLELSPATIRNVMSDLEDLGLIVSPHTSAGRIPTARGYRLFVDTMLTVRQEQFAAHVLAPDQPQKVISNAANLLSSLSQFVGVVIAPRRSSVFRHIEFLRLSERRLLVIIVSPEGDVQNRVIFTETDYSQAQLIEAANYLNSHYVGLAIEQVRERLKNEVESLRSEIASLMQAAVAVSSEAMSETQDEVVISGERNLLAVTDFSNDMGHLRRAFDLFEQKAQLMRLLDIAGQAEGVRIFIGGESQVVPFEDLSIVSAPYEVDGQVVGTLGVIGPTRMAYDRMIQIVDITSKLVSNALSYHK |
| 3150 | sp|B2SXB7|HRCA\_PARPJ | MLDPRAQTLLKTLIERYIAEGQPVGSRTLSRYSGLELSPATIRNVMSDLEDLGLVISPHTSAGRIPTPRGYRLFVDTMLTVESAADEEAVTRTVKTTLQAGEPQKIVAAAASVLSNLSQFAGVVLTPRRSHVFKQIEFMRLSDKRILLIIVTPEGDVQNRIMATQRDFSPSQLVEASNYINAHFAGLSFDDVRRRLREEIDALRGDMTTLMHAAVTASTDESDTGETVLISGERNLLEVADLSSDMARLRKLFDVFDQKTSLLQLLDVSSHAAGVQIFIGGESNLVPIEEMSVVTAPYEVNGKIVGTLGVIGPTRMAYNRVIPIVDITARLLSLTLSQQ |
| 3151 | sp|Q8RB70|HRCA\_CALS4 | MPLDDRKKRILFAVVTDYIMTAEPIGSRTIAKKYNMGISSATIRNEMADLEEMGYLEQPHTSAGRIPSDKGYRFYVDTILQNFMKEDLSPPPRVREEVIAEFDEIVKKYAKILADITHHTTVAKMPKLNPDKIKRLQLIPVASNKMIMVVITDTGIVKNYLLNLCQSVDRNVFEFLNNLLNDKIAGKSEKAIFNFLEKELKDTLGDMAFMADELIKTILLSLKQLQETDVYTDGTLHILDFPEYKDLNKAKNFLSLLDNKSLLNEVLEPVDDFVDVKIGRENRFEEMRELSVIKTTYKINDRVVGTIGIIGPTRMDYRRLISELTLMTRELSNLLSSIYNDEV |
| 3152 | sp|Q7W514|HRCA\_BORPA | MDDRARALLKALIERYIADGQPVGSRTLSKVFDLSPATIRNVMADLEELGLIHSPHTSAGRVPTPRGYRMFVDSLLAVRAYQFEPAHIGELLPVSEPSRAVNAAAALLSNLTQFAGVVLTPKRTQIFRQIEFIRLSDKRVLLIIVTPEGDVQNRILSAQRDYTEAELLEAGNFFNVHFSGKSFDAVRRTLSTELAQLRDDISRLMQAAVEAGAEAADDGEAVVISGERKLLDVTDIASDMDRLRKMFSLFEKKTDLLQLLDVSSRAQGVQIYIGGDSQLVPMEEVSVITAPYGVDGKVIGTLGVIGPTRMAYERVIPIVDITARLLSNALSHNQ |
| 3153 | sp|Q5H188|HRCA\_XANOR | MRASQSPMLDPRTRQLLRTLIARYIRDGEPVGSKTLAQHAGLDVSPATIRNILADLEDVGLLSSPHTSAGRVPTAHGYRVFVDSLVQMQPPGEEEVRRLRAELASGNGTQSLLGSASQMLSAMSHFVGVVSAPRREQFAFRHIDFVALDARRVLAILVFADNEVQNRVIEPRRAYEPAELERVANYLNAQFAGRALADIRACLLRELRMAKNEMEQLLAHSVDLASEALVPADADDMVMAGQTRLMGVQDLSDLDRLRELFEVFASKREILQLLERTIQAPGVRIFIGEETGMVSLEDVSLVTAPYTAHGQVLGVLGVIGPKRMAYDRLIPLVQTAADVLGAAMESPGTR |
| 3154 | sp|A6TSM2|HRCA\_ALKMQ | MQLNERKLKILQAIIQDYIYTAEPVGSRSLSKKYDLQVSPATIRNEMADLEDMGYLIQPYTSAGRIPSDKGYRLYVDHLLQLEKNMVIQRDQIRSDLLNRFGEIEQLLQYSSKILSQLTNYTTIALAPQIKEVRLKHIQLIPMDEHHLLGIIITDTGLIKKTVLQVPEGLDAEAISKISEVINGRLQGVAIKGIPGEFTEEFTHELEQLSHGFDSVIPKMFQTLEELDKIELFLHGTTNIFNFPEFNDIFKAKSFLSMLEEKELISQLILSSSHKGMNATIGSENIYKEAKEYSLVTATYKIDEDVIGFVSIIGPTRMDYSNVMSTMGQVNKYINEVLKGKYK |
| 3155 | sp|Q6G1E5|HRCA\_BARQU | MKQKPIDDELKYLDERSRDIFRHIVEAYLNDGEPVGSRNLSRLLRQTLSPATIRNVMSDLEHLGLIYAPHVSAGRMPTQSGLRFFVDAFMEAGDLPNEERESIEAQVKEAGHAQSVEHFLVQASQILSDLSRGAGLVLASKYEGTLKHIEFVRLDGQQALAVLVTQQGEVENRIVHLPKGVTHAQLTEATNFLNAHIQGRTLSEAKEEIARLCSETRAALDHLSHHLVETGLALWGGEDADHKIHLIVRGRSNLLEDVKAEEDLERLRHLFDDLETRESMAQLLDLTDEGPGVRIFIGSENKLFSLSGSSLVVAPYRDSQQRVIGALGVIGPTRLNYARIVPMVNYTAQLVSQLLR |
| 3156 | sp|Q2SZ00|HRCA\_BURTA | MLDPRARTLLKTLIERYIADGQPVGSRTLSRYSGLELSPATIRNVMSDLEELGLVSSPHTSAGRVPTPRGYRLFVDTMLTVESPIDSDAVTRLVQTTLQAGEPQQKVVAAAASVLSNLSQFAGVVLTPRRSHVFKQIEFLRLSDKRILLIIVTPEGDVQNRMIATQRDYSPAQLTEASNYINAHFAGLSFDEVRRRLRGEIDELRGDMTALMHAAVTASTEEPADEETVLISGERNLLEVADLSSDMARLRKLFDVFDQKTSLLQLLDVSSHAQGVQIFIGGESTLVPIDEMSVVTAPYEVNGKIVGTLGVIGPTRMAYNRVIPIVDITARLLSLTLSQQ |
| 3157 | sp|B0C2W4|HRCA\_ACAM1 | MDLSLTNRQQQVLRATVDHYIATAEPVGSKALAREYALSISPATIRNVMGRLEEEGLLFQPHTSAGRVPSDFGYRHYVDELVMPSTTLMSQIKQALDQKLRTDSWIFEVLLRDAAQILATLSGCVALITLPQAATSTIRHLHLVQVEPHRVMLILVTDAYETQSVMMELPHSAWDEVDPDRIEQELQILSNFLNHHFVGSSLQDLVALDPCELDREFQKYTDFLKILLTDLTQQCKSLSPKNILVGGLAEVLRQPEFSELQQAQTLIHLLEDGQDLLRPLFNELMADEIKQGADVVPRSTKVNVRIGSENSLESIQAYSLVSSTYQKGELPMGSVGVLGPTRMAYEKVIALVTVTADYLSTCLTQVA |
| 3158 | sp|Q8L3A0|HRCA\_ACHLA | MISSRQKLILKAIIDMYSEKGEPVGSKALMALPYLNYSSATLRYDMAVLEELGFLEKMHTSSGRVPSERGYRYYIEHLVTRDNDVTEVFPLIDEVFSKKALGREHTIKEALKLLTDLTSYTAVAVGPDILQSHIKRIEMVPLGLKDAVMLIVTDTGHVQHQQIHISDDMRMDDIKEVIHTLDDLLKNRTLEDALKVLKEEYAISELNQFMSYQSQIIDSFIEAFSKFASDSFYLSGMTNAFEQPEFNDVSHMKRFIDMMDRREIVKLIGTAEGISVRFGSDMEIKPLNQMTIISIPYQIDSKQKGTIALVGPSRMSYQKVIPLLEYIAANLAKLYKDNNKET |
| 3159 | sp|Q8XGW7|IBPA\_SALTI | MRNFDLSPLYRSAIGFDRLFNLLENNQSQSNGGYPPYNVELVDENHYRIAIAVAGFAESELEITAQDNLLVVKGAHADEQKERTYLYQGIAERNFERKFQLAENIHVRGANLVNGLLYIELERVIPEANKPRRIEIN |
| 3160 | sp|Q550E9|HSPG8\_DICDI | MATIFDILNTLNNNNNNNFENCKRQCSTNKSNKTIIDILPPMDVTMTNDKLIIETELAGISKDHIEIDIKDSILTIQGEKKKNLNKQQQQLVIEKSSTSPSSSTLDSKEDEPSIEEFEDDIKPKSTTSTTTVSTTTTATKENKEDENKTKPTDKKFISERSFGNFKRYLDLTKVLYQLDLNSINTQFENGLLTITINKKLHYPNPIKININ |
| 3161 | sp|A8G7R8|IBPA\_SERP5 | MRNFDLSPLYRSAIGFDRLFNALEAGQSQGNGGYPPYNVELVDENHYRIAIAVAGFAEQELEITTQDNLLIVRGAHNNEPAERTYLYQGIAERNFERKFQLAEHIQIKGAKLENGLLYIDMERIVPETLKPRRIEIK |
| 3162 | sp|P57640|IBP\_BUCAI | MSYRSLSFIPNFNDHNVFSNRFNQIDKMFSTLTGEKPISDTPTYNLCQINEIEYQLTLSIPGYQEKELDISVHNNQLSIQGKKENSDTQECNKWLHKGIVFNNFSLNFNLDHKIKVKKAELSLGLLKLDFECNIPEEEKPKKISINVPNDTKKIDKK |
| 3163 | sp|P52580|IFRH\_MAIZE | MASEKSKILVVGGTGYLGRHVVAASARLGHPTSALVRDTAPSDPAKAALLKSFQDAGVTLLKGDLYDQASLVSAVKGADVVISVLGSMQIADQSRLVDAIKEAGNVKRFFPSEFGLDVDRTGIVEPAKSILGAKVGIRRATEAAGIPYTYAVAGFFAGFGLPKVGQVLAPGPPADKAVVLGDGDTKAVFVEEGDIATYTVLAADDPRAENKVLYIKPPANTLSHNELLSLWEKKTGKTFRREYVPEEAVLKQIQESPIPLNIILAIGHAAFVRGEQTGFEIDPAKGVDASELYPDVKYTTVDEYLNRFL |
| 3164 | sp|Q5PMN6|IRAD\_SALPA | MMTPTIPVALFDRLLVEGISPHELVRRKLMCLFNSCVVPGGETLPPLLTRGMPEWHEVNVGDKRVLNWFCRELRAAILRYEPSINMLEVSVKDAHHQTLALSLEAMLQDEPEPLRLEIAYSNGRWR |
| 3165 | sp|Q1RFG2|IRAP\_ECOUT | MKNLIAELLFKLAQKEEESKELCAQVEALEIIVTAMLRNMAQNDQQRLIDQVEGALYEVKPDASIPDDDTELLRDYVKKLLRHPRQ |
| 3166 | sp|B7UJK6|IRAP\_ECO27 | MKNLIAELLFKLAQKEEESKELCAQVEALEIIVTAMLRNMAQNDQQRLIDQVEGALYEVKPDASIPDDDTELLRDYVKKLLRHPRQ |
| 3167 | sp|A9MX56|IRAP\_SALPB | MKNLIAELLLKLAQKEEESKELVAQVEALEIIVTAMLRNMAQNEQEMLIRQVEGALEGVKPDASVPDHDTELLRQYVKKLLRHPRH |
| 3168 | sp|Q9RXY7|IRRE\_DEIRA | MPSANVSPPCPSGVRGGGMGPKAKAEASKPHPQIPVKLPFVTAPDALAAAKARMRDLAAAYVAALPGRDTHSLMAGVPGVDLKFMPLGWRDGAFDPEHNVILINSAARPERQRFTLAHEIGHAILLGDDDLLSDIHDAYEGERLEQVIETLCNVAAAAILMPEPVIAEMLERFGPTGRALAELAKRAEVSASSALYALTEQTPVPVIYAVCAPGKPPREQAASDEDAGPSTEKVLTVRASSSTRGVKYTLASGTPVPADHPAALALATGMEVREESYVPFRSGRKMKAEVDAYPSRGIVAVSFEFDPARLGRKDSEQADRDEPQDAAQ |
| 3169 | sp|O82359|LCKB2\_ARATH | MLRSTCCTPLCPFTAKQPSFLRKQQRITSDRFTFRGGGGGDAAAVVSSSGLRDLVFVVNPQGANGRTAKEWKKLLPHLRSRLGKDCNVSELLTSGPSHAIDITREAIRDGADAVIAVGGDGTLHEVVNGFFWEGKPVGYLSGEASRSTALGLIPLGTGSDFARTFGWNNDPCEAVERIARGMRSRIDVGVIDKEGKDLHYFINVADVHLSAKAGFYASKYKKFGNLCYVIGALQAFMGHHNQDMRIRVNGGEWEIYPQVTALCVGNAKYFGGGMKITPNAIPGNGNLEVVVLQNFKWYDFVLKLHKLYNGTHLSVNNVTSRSVQSIEVEEITDSGSIYVQSDGEHLGFLPRKFQVLPGAIDIIS |
| 3170 | sp|P0DO19|LHR31\_CHLRE | MLANVVSRKASGLRQTPARATVAVKSVSGRRTTAAEPQTAAPVAAEDVFAYTKNLPGVTAPFEGVFDPAGFLATASIKDVRRWRESEITHGRVAMLAALGFVVGEQLQDFPLFFNWDGRVSGPAIYHFQQIGQGFWEPLLIAIGVAESYRVAVGWATPTGTGFNSLKDDYEPGDLGFDPLGLKPTDPEELKVMQTKELNNGRLAMIAIAAFVAQELVEQTEIFEHLALRFEKEAILELDDIERDLGLPVTPLPDNLKSL |
| 3171 | sp|Q05191|LE194\_HORVU | MASGQQERSELDRMAREGETVVPGGTGGKTLEAQEHLAEGRSRGGQTRKEQLGEEGYREMGHKGGETRKEQLGEEGYREMGHKGGETRKEQLGEEGYREMGHKGGETRKEQMGEEGYREMGRKGGLSTMNESGGERAAREGIDIDESKFKTKS |
| 3172 | sp|O32200|LIAG\_BACSU | MKKMLGKLLITAGILVFFAVVVKDVFAAGLGFINGTEADSASASPRDIDSMVIESDSKDVRIIAEERSDISAGISGDSGKLFVTENKRKLELTVKEKEFQFLNGFNRSTLIVRLPYDYKGDLAVRTSSGDVSVAGNDHLALSGLNAVSASGNTSVTDVRIQDLKVKASSGDVSISNTVSKTAGIDLASGDANLVHVSGSLDVKMTSGDFNAVLKKVTGPVSVTLTSGDANVSLPQNGSFAVNALSASGDVSSPYSFADKGHKEQHHITGTQGSGRHPIDIKTDSGDLAIR |
| 3173 | sp|Q469F5|LON\_METBF | MRRLTMYPEQPDENRESIVMPLFEVVVYPKSRAKFLADKVTGEILLNDMKNAESVSAIGLTVKNGTKASDLSEESLYKIGNLLNITYVQPSDDGYLVVAKGIERVEAVSLYQKNGLFYATYRPVHDLPDFDEDAETEVMANIKKTIHEISARFQGSEQFTKSIDKMDSIDQIMGFVMPYIPVKLAEKQRLLELASVRERYLLFLHILTKHKENINLQIEMAKKVTDKISKSNREAMLREQLKVIQEELNEGDDSASGDAAYREKIENSTMPDEVKKKAFSELKKLETGGSHNPEAPGIRNYLDLLLDLPWITEEKKSIDIAEARRVLESNHNGLEKVKERIIQHLAVMKLKHEKQGSILLLIGPPGTGKTSLGKSIADALGRKYIRISLGGVKDEAEIRGHRRTYIGALPGRIIQGMRKAGTKNPVFILDEVDKLSASYSGDPASALLEVLDPEQNSTFSDHYLEIPYDLSDVLFIATANSMANIPWPLLDRMETIEISGYTKNEKLAIAKDHLVPCILEDHGLDAEKLKIEDEALKVIIDKYTREAGVRGLKKQLAKTARFVSEKIVSGKADLPYVVRADMLKEILGKEIIRQEEARKENVPGVVTGLAWTPVGGDILFIEGTFMPGSGKLTLTGQLGDVMKESAKISLSLVRSRLANTANSFDFTSSDIHIHVPSGATPKDGPSAGVTLFTALTSLIIGKAVDPKLAMTGEITLSGAVLPVGGIKEKVLAAHRAGIKKIILPKENERDLEDVPEDARNELQFVPVETIEEVLREALDIDLPRPVVPSSYPGSSYAPAHSV |
| 3174 | sp|Q72JM6|LON2\_THET2 | MLPETMPVCPVRGSVIYPTMVMPIDAGRPISIRAIDEALARDRVLLIVSQRDKEVETPRPSDLFEVGTACNILKMRKNPDGSVQVLVQAFARVRVREWLDLGDHLEARGEVLADEPGEPILVKALVREVKDKFQALLKEGKYLAPEVAQFILNLEDPSQLADYVAFHMDFRLEDKQKVLETANVAERLRAVLVLLEAELALIETQRRIQQQVKEEIDRNQREYFLREQMKAIQRELHGEEGEQEVEEFRRKLEALDLPPVVRQEVERELNRFARMHPDSAEASVIRTYLDWIVNLPWNTRTEDNLDLERAKEILERDHYGLEKVKDRVLEYLAVRKLKAERAKRGEIPPDEVNKGPILLFVGPPGVGKTSIAKSIAEALGRKYVRVSLGGVRDESDIRGHRRTYIGAMPGRIIQGLRQAGTKNPVFLLDEVDKLGISYQGDPAAALLEVLDPAQNKEFVDHYLGVPFDLSEVMFICTANFPQNIPAPLYDRMEPIEFTSYTEQEKLEIAKRYLLPRQLKENGLEPEQVVVTEAALTRLITHYTREAGVRQLEREIGALLRKAARRILEEGKKRVRITEKDLEAYLGPPRFLPETEAREPQVGVATGMYYTPVGGDIMFVEVSVMPGKGNLILTGQLGDVMKESARAALSYAKKNALRFGIPLEKFDKSDIHIHVPAGAIPKEGPSAGVALVSALVSALTEVPVRHDIAMTGEITLTGRVLPIGGVKEKVLGARRAGIREVILPKLNEPDLADIPKPLRQNMTFHFVEHLDQVLDLALVGGLKALEERGRRSRSARRKKELVAHA |
| 3175 | sp|Q6MGP8|LON2\_BDEBA | MSFDDKVLEIPQTLPMLPVRDIVVFPYMIIPLFVGRDASIRSVEEALAKNRLIFLASQKDITEENPSPDNIYTVGTVAMIMRMRKLSDGRVKILIQGVAKGRVKNFTKTSPSFEVAVEKIEETPVQKTVVENEALIRTAKEHIERIIALGRPLSPDILLVLDDVSDPGRIADLIASNLGIKVQDAQKVLETSDATERLKLVNEILAAELEVMQTQSKNRTGAKDDMSKSQREYFLREQMKAIKNELGEGDSKSEEMDELREKLVNAGMPTHVEAEALKQLGRLERMHPDASEATMVRTYLDWMADLPWSKKSEDHIDLKRSKEILDEDHYELEKAKDRIMEFLAVRKLKPNLKGPILCFGGPPGVGKTSLGKSIARAMGREYFRIALGGVKDEAEIRGHRRTYVGAMPGKIIQALRQAKTSNPVIVLDEIDKLGSDFRGDPSAAMLEVLDPEQNATFRDNYLNVDFDLSNVLFIATANVLENIPPALRDRMEILNIPGYTENDKLLITKKHLIKRQIEANGITEENIKFTDEGIKYLIAGYTREAGLRNLEREVGSVCRKVAKMVVMEETNFVEVNATTVPELLGPPRFQRDDKIADSQVGVVQGLAWTQAGGEVLTIEALKMKGKGHLALTGQLGDVMKESAHAAMSYARAHQEELGIPEDFFEKYDVHVHLPAGAIPKDGPSAGITLTTALVSLMTGTPVRHDIAMTGEVTLQGRVLPVGGIREKCLAALNLGITNIIIPMACQKDLADIPKVFKDKINFILAENLDEVFAVAFDKSAKGQEKKPAAKKDPKKTKSLAA |
| 3176 | sp|A9F8L0|LON4\_SORC5 | MSQLRSGASAPRSPFPLLPLRTGVLFPGTVLTLPVGRPRSVALLNAVHAGDVIGVIAQRDPKREDPRREDLHDIGTFARVVDISRVSNGYRLVIEGLDRFALSALVETEPTWRAEGTLAPEFLGDAEEARLLAASLRERAREVGPKTGTNLAEIAATSRAEPGVFADQVAGALGLPTEKEMEVLSELRVVPRLQRVAGLLAEASALADLKKKIDGDVRRELGKGQREVILREQLRAIQKELAGGEEGEDELSALRRRLDEAGLPEEARAVADRELRRLESVGPQSAEHNVIRTYLEWIADLPWSARAEVKDDLDAVKAKLDEEHRGLDDVKRRILEHMAVLKLTGKARATILCFAGPPGVGKTSLGQSIADATGRPFVRISLGGVHDEAELRGHRRTYVGALPGRIVHALKKAKVKNPIVLLDEVDKLGAGWRGSPEAALLEVLDPEQNRTFVDHYLELPFDLSEVVFLCTVNDLGALSAPLRDRLEVIELSGYTPDEKIAIARSHLVPKQLKEHAIDPGSLSITDEALAAIVRDYTREAGVRQLGREIKKLCRAVALEIARAADGKAPRVVVEASDLGTYLGKVRFFSDVAERTSVAGVATGLAWTPVGGDILFIETSRMPGKGRVEITGQLGDVMKESAKAALTYVRSHAIELGVDTAKLEAEDLHIHVPAGGVPKDGPSAGVTMFTALTSLLSARRVRSDTAMTGECTLRGRVLPVGGIKSKVLAAHRAGIKRVVLPQKNARDAEEIPKEVRAELELIFVEDMSQVIAAALEEAPIEAAGTGGVTGAAAGEPAAAA |
| 3177 | sp|Q2IIK1|LON\_ANADE | MRERKETAMSDKEKKGAGAGAQVAPAMGPPVLINKEDIPAVLPILPLRNSVFFPGGVLPLAVGRQKTIALIKDAVRDEQVIGVVTQRRAEEEDPGAADLYTVGTVARVVKLLKMGEDNYSLVVQGLARFKVLELVQESPYLKARIEAVEDRSVVDDVEVEALAINLKKLAREVIELMPELPAAATELVESITHPGHLADLIAANVDVPIEEKQQVLETVELKARMKLVLELLNRKREILKLSNKIDSAVKGEMSKTQREYYLRQQLKAIKEELGELGEEEEELDELQERLKKAGLPPEVEKVAQKELNRLKSIPTASSEYTVARTYLDWIADLPWTKRTDDNLDIENARQILDTDHYGLDKIKKRILEYLAVRKLKNDMRGPILCFVGPPGVGKTSLGQSIARATGRKFVRLSLGGVRDEAEIRGHRRTYVGALPGRIIQSMKKAATVNPVMMLDEIDKLGADFRGDPSAALLEVLDPEQNHAFSDHYLDLSYDLSKVMFIGTANLLDPIPGPLKDRMEILELPGYTFEEKVHIAQNHLIPKQLREHGLSADAIAISEKALIKIIMAYTREAGVRNLERRIADVCRAIAVEVASGKIGASAKRSIEEADVLEILGPEKFYNETAERTEIAGVATGLAWTAAGGDILFIEATKMPGKGALTLTGQLGDVMKESAQAALSYLRSKSDSLGIPVNFLEKTDLHIHFPAGAIPKDGPSAGVTILTALVSLLTGIRVRSDVAMTGEVTLRGLVLPVGGIKEKVLAAHRAGIKRIIIPARNEKDLLDVPEQARKELEFVFAAHMDEVLQAALEENPVGRKPPAAPEPEGEKKPGATPTPPAKKPDEIRV |
| 3178 | sp|P9WGM8|MPRA\_MYCTO | MSVRILVVDDDRAVRESLRRSLSFNGYSVELAHDGVEALDMIASDRPDALVLDVMMPRLDGLEVCRQLRGTGDDLPILVLTARDSVSERVAGLDAGADDYLPKPFALEELLARMRALLRRTKPEDAAESMAMRFSDLTLDPVTREVNRGQRRISLTRTEFALLEMLIANPRRVLTRSRILEEVWGFDFPTSGNALEVYVGYLRRKTEADGEPRLIHTVRGVGYVLRETPP |
| 3179 | sp|P45985|MP2K4\_HUMAN | MAAPSPSGGGGSGGGSGSGTPGPVGSPAPGHPAVSSMQGKRKALKLNFANPPFKSTARFTLNPNPTGVQNPHIERLRTHSIESSGKLKISPEQHWDFTAEDLKDLGEIGRGAYGSVNKMVHKPSGQIMAVKRIRSTVDEKEQKQLLMDLDVVMRSSDCPYIVQFYGALFREGDCWICMELMSTSFDKFYKYVYSVLDDVIPEEILGKITLATVKALNHLKENLKIIHRDIKPSNILLDRSGNIKLCDFGISGQLVDSIAKTRDAGCRPYMAPERIDPSASRQGYDVRSDVWSLGITLYELATGRFPYPKWNSVFDQLTQVVKGDPPQLSNSEEREFSPSFINFVNLCLTKDESKRPKYKELLKHPFILMYEERAVEVACYVCKILDQMPATPSSPMYVD |
| 3180 | sp|A3Q5L8|MPRB\_MYCSJ | MTLPPQPSRLKPPRNTSSLSLRWRVMLLAMSMVAMVVVLMSVAVYAVVSRALYDDIDNQLHSRARLLIESGSLAADPGKAIEGTAYSDVNAMLVNPGRSIYTANQQGQTLPLGEAEKDVISGELLLSLRTANHQRILAVHLTNGSSLLISKSLAPTGQVLGRLGTVLLIVGGVGVAVAAIAGGMVARAGLRPVGRLTQAAERVARTDDLRPIPVFGSDELARLTEAFNMMLRALTESRERQARLVSDAGHELRTPLTSLRTNVELLMASQAPGAPRLPEEEMAGLRADVIAQIEELSTLVGDLVDLTRDEAGGVVYETVDMAEVVDRSLERVRRRRNDIEFDVNVVGWQVYGDAAGLARAVLNLLDNAAKWSPPGGRVGVRLTQTDPVHAELVVSDQGPGIPEAERRLVFERFYRSTAARAMPGSGLGLAIVKQVVLKHGGALRVEDTVPGGNPPGTSFYVMLPGRPLTPGGNGTAPVPAAQFDPDMRSAGSRADRRVIKNTETNGKSRSASKEL |
| 3181 | sp|O74839|MSY1\_SCHPO | MSSPTSPTSSPGRHHWSNSKDGMPPEYTNQDPNSDQADNENSDAKAHQPQHSPQHSTENQGHTGTSDTSSLEMELSKLHPESKQRQLPHSPEHERSRSPIASVVSYRSHMTLEDENQIFNAEMAVRGSQSLQRRPTGRSVRGSMRRLSSHRSKSMRTSKSKKSGDYERTAENEEAAQEAENHLDNFGVVTFGTEAPIKAPDHPVTIFGRIFKFIQQRSFYLRSLIYIIPLGVLLLIPVFIGRFYHPQPPYRDELGHEYERHLHVGGVDLMWMAIWWEIIWLSIWAARYAAKVIPYFFAFFVSFISNNVTKWRCMAVALEFPITLFLWMLAVYVSFLPIMTRRHIGDYGVPDHVRVKLPWQQSANNVLITLFITSIMNLVEKVLMQLIAMSLHRREYESRILYNKFAINELARLYGYARQRSFDFKDAIHRAQADVFKFADHQHGKKRAAAARVAQNALNKTTYKAISAFNFATDMVNKVAGEITNREVEKSSSPKSVVLHLLKTTRGCQSLARCLFEALVNPENPDLVLDDFIPVYTDETGEVDNATLEACYSIFDRDLNGDITCEEIELACVEIGKERKSISASLRDLNDSISKLDGICMFIVAVITLFIFLYLIARNFSGVLTSAGTTLLGLSWLFSGSAQELLSSIIFVFVKHPYDVGDRVDVMINGTVTSAMVKEISIMSTEFRLLTGKVIQAPNSLLNTLWILNMRRSDGIADPVTVNLKFGTTLQQIEQLRIKIIDFLKEEKRDYKPDLLTEVTDLPDLYSMSLCVVFFHKYNFQDEVLRMRRRNMFMCALMTYMQELDIVSPIFNSPGKSKDSPMYVNFNNGSMEGVKLSGGNDGGGTENHRDSTVGGGILKNPKAYPYREPTPPGSSDSDTASVSKKRVDFSLGTRHLMPAFDDVADIGSKRLGRDSLPDAVIENAGTEAMRREAEERRRAEEEEYERSQQESSSNEENENASRTSGARFSFSSKASRLSARPSARTVPPLQHISIQDLREPNENNTSKSARL |
| 3182 | sp|Q6YVJ0|NCED1\_ORYSJ | MQRICPAHCSVTHSLTMKSMRLSYIPPAASAAPQSPSYGRKKNASAAPPSAAASTTVLTSPLVTTTRTPKQTEQEDEQLVAKTKTTRTVIATTNGRAAPSQSRPRRRPAPAAAASAASLPMTFCNALEEVINTFIDPPALRPAVDPRNVLTSNFVPVDELPPTPCPVVRGAIPRCLAGGAYIRNGPNPQHLPRGPHHLFDGDGMLHSLLLPSPASSGDDPVLCSRYVQTYKYLVERDAGAPVLPNVFSGFHGVAGMARGAVVAARVLTGQMNPLEGVGLANTSLAYFAGRLYALGESDLPYAVRVHPDTGEVTTHGRCDFGGRLVMGMTAHPKKDPVTGELFAFRYGPVPPFVTYFRFDPAGNKGADVPIFSVQQPSFLHDFAITERYAIFPEIQIVMKPMDMVVGGGSPVGSDPGKVPRLGVIPRYATDESEMRWFEVPGFNIMHSVNAWEEAGGEELVLVAPNVLSIEHALEHMELVHSCVEKVRINLRTGVVTRTPLAAGNFDFPVINPAFLGRRNRYGYFGVGDPAPKIGGVAKLDFDRAGEGDCTVAQRDFGPGCFAGEPFFVADDVEGNGNEDDGYLVCYVHDEATGENRFVVMDARSPDLEIVAEVQLPGRVPYGFHGLFVTQAELQSQHQ |
| 3183 | sp|A8MQY1|NAC68\_ARATH | MMKGLIGYRFSPTGEEVINHYLKNKLLGKYWLVDEAISEINILSHKPSKDLPKLARIQSEDLEWYFFSPIEYTNPNKMKMKRTTGSGFWKPTGVDREIRDKRGNGVVIGIKKTLVYHEGKSPHGVRTPWVMHEYHITCLPHHKRKYVVCQVKYKGEAAEISYEPSPSLVSDSHTVIAITGEPEPELQVEQPGKENLLGMSVDDLIEPMNQQEEPQGPHLAPNDDEFIRGLRHVDRGTVEYLFANEENMDGLSMNDLRIPMIVQQEDLSEWEGFNADTFFSDNNNNYNLNVHHQLTPYGDGYLNAFSGYNEGNPPDHELVMQENRNDHMPRKPVTGTIDYSSDSGSDAGSISTTSYQGTSSPNISVGSSSRHLSSCSSTDSCKDLQTCTDPSIISREIRELTQEVKQEIPRAVDAPMNNESSLVKTEKKGLFIVEDAMERNRKKPRFIYLMKMIIGNIISVLLPVKRLIPVKKL |
| 3184 | sp|Q10S65|NAC22\_ORYSJ | MAAAVAVAGPSMEVEQDLPGFRFHPTEEELLDFYLSRVVLGKKLHFNIIGTLNIYRHDPWDLPGMAKIGEREWYFFVPRDRKAGNGGRPNRTTERGFWKATGSDRAIRSSGDPKRVIGLKKTLVFYQGRAPRGTKTDWVMNEYRLPDYGAARAAAPPPKEDMVLCKIYRKATPLKELEQRASAMEEMQRGSSHGDYTATRASLVHDASASTGDDYFSSDDVHDSGFLIQSSSSSAAPSGSSSKNGGAGAPREAKKEEADVTVTVASATSLQLPAVSQLPSLQLPAMDWLQDPFLTQLRSPWQDQHCLSPYAHLLYY |
| 3185 | sp|Q2V9B0|MY1R1\_SOLTU | MSSVYSDKSSSTPAVTGGGFGGEIMLFGVRVKVDPMRKSVSLNDLSQYEHPNANNNNNGGDNNESSKVAQDEGYASADDAVQHQSNSGRERKRGVPWTEEEHKLFLLGLQKVGKGDWRGISRNFVKTRTPTQVASHAQKYFLRRSNLNRRRRRSSLFDITTDSVSVMPIEEVENKQEIPVVAPATLPTTKTNAFPVAPTVGPIIFPVQIDKSREYPTLLRHDHGNSSMLVGPVPMFSMPNPSTAIDLNANHNSTIEPSSLSLRLSLSLDQGQASSTRHSAYNVMSSFSNGESIIRVA |
| 3186 | sp|B5E231|GRPE\_STRP4 | MAQDIKNEEVEEVQEEEVVETAEETTPEKSELDLANERADEFENKYLRAHAEMQNIQRRANEERQNLQRYRSQDLAKAILPSLDNLERALAVEGLTDDVKKGLGMVQESLIHALKEEGIEEIAADGEFDHNYHMAIQTLPADDEHPVDTIAQVFQKGYKLHDRILRPAMVVVYN |
| 3187 | sp|Q9LWN0|GSK1\_ORYSJ | MEAPPGPEPMELDAPPPPAAVAAAAATAGISEKVLQKKEEGGGDAVTGHIISTTIGGKNGEPKRTISYMAERVVGTGSFGIVFQAKCLETGETVAIKKVLQDRRYKNRELQLMRAMEHPNVICLKHCFFSTTSRDELFLNLVMEYVPETLYRVLKHYSNANQRMPLIYVKLYIYQLFRGLAYIHTVPGVCHRDVKPQNVLVDPLTHQVKLCDFGSAKVLVPGEPNISYICSRYYRAPELIFGATEYTTSIDIWSAGCVLAELLLGQPLFPGESAVDQLVEIIKVLGTPTREEIRCMNPNYTEFKFPQIKAHPWHKIFHKRMPPEAIDLASRLLQYSPSLRCTALDACAHSFFDELREPNARLPNGRPFPPLFNFKHELASASPELIHRLIPDHIRRQHGLNFAHAGS |
| 3188 | sp|Q5F6X1|GRPE\_NEIG1 | MSEQTQQQNSEEAVENVEAVETVETVGNADGVQEQAAAEPAYEDLQARIAELEAQLKDEQLRALANEQNLRRRHQQEIADTHKFAGQKFAVEMLPVKDYLEMALLDQSGNFDALKMGVQMTLNELQKAFDATQIKEINPKAGDKLDPNIHQAMQAVASEQEPNTVVGVMKKGYTLSDRVLRPAMVTVARKEA |
| 3189 | sp|B4SG55|GRPE\_PELPB | MTKKVMDEQESHKEYLDEILQAGEVQEDTVPLVEWSQGQSSPEGECTEARIAELETELARQKEQAGKYRDELLRRAADFENFRKQKEREAMMASSRALENIIRELLPVIDDVKRLLDHAPLSAERSSEARPYIEGVEMVKKNLEKWLDEKGVKAIASIGTMLDVNFHEAISQIDSPDAEPDMIVDEYQTGYLLGERVIRHAKVIVAR |
| 3190 | sp|Q6KIH8|GRPE\_MYCMO | MIINYKFSDFYFDKKLSGKEVEFSIQIQKREASSDKNLQSKNLIIDAINVQRDFSEKNKSSDNLEILNKQIEDKNDLIINLEKKVFDLTLENKKNIDDFNEKAKSFAKKAQEELDKYKLELKSFLENEFEEKKKFSFQKLFENIINPLNNFRLAIDAGSKQENSSIKSYVQGFEMLLNQTINILESYGLIIIRPEIGDTFNPEVHNAVELREEGTPNRILKINSLGYQFHERVLKPASVIVSK |
| 3191 | sp|Q73T78|GRPE\_MYCPA | MTQGNQKTEGNPPEQVTVTDKRRIDPETGEVRHVPPGDTPGGTAPQAATAESGGAATDKVAELTADLQRVQADFANYRKRALRDQQAAADRAKAAVVNQLLGVLDDLERARKHGDLESGPLKSVADKLESALTGLGLTAFGEEGEEFDPVLHEAVQHEGDGSKPVIGTVMRQGYKLGDQVLRHALVGVVDTVTEEGDGEAAATDEPTAAAAETRPPESDDNAGASGD |
| 3192 | sp|Q3SW78|GRPE\_NITWN | MTDSDGKTDKSGEPAAEVEPVVSKPYVMPDDPEDDALDALNKQLAEAKDRTLRTLAEMENLRKRTAREVSDARTYGISGFARDVLEIADNLQRALDAVPADARAAPDPGLKALIEGVELTERSLHNALEKHGVKKFDPAGEKFDPNVHQAMYEVPDPSIPVGTVAQVIQAGYMIGERVLRPALVGVAKGGAKAAAPE |
| 3193 | sp|B3Q970|GRPE\_RHOPT | MTETDGQKDNNQDTAQAAADPVVSKPYIMPDDPEEGSNEALVREAADARDKMLRTLAEMENLRKRTQKEVADARTYGVTSFARDVLDIADNLQRALDAVPAEARANAEPGLKALIEGVELTERSLLNALEKNGVKKFDPKGQKFDPNFQQAMYEVPDPSVPAGTVVQVVQAGFTIGDRVLRPALVGVAKGGAKAAPSDGGSETGNLN |
| 3194 | sp|B2UBP7|GRPE\_RALPJ | MKHTSDTPSNSDMPSDSQATQPNASATGQAAHAYSSQAQRASADAQAVAGDEAAVAEAVADVDVAELRRQLEAAEEKARQNYENWARATAEGENIRRRGQDDVAKAHKFAIEGFAEYLLPVMDSLQAALADTSGDATKLREGVELTLKQLYAAFEKGRVTELNPVGEKFDPHRHQAISMVPADQEANTVVAVLQRGYTLADRVLRPALVTVAAPK |
| 3195 | sp|Q9XIF8|GSTUG\_ARATH | MGEKEEVKLLGVWYSPYAIRPKIALRLKSVDYDYVEENLFGSKSELLLKSNPVHKKVPVLLHNNKPIVESLNIVEYIDETWNSSAPSILPSHPYDRALARFWSDFVDNKWFPALRMAAITKSEDAKAKAMEEVEEGLLQLEDAFVSISKGKPFFGGEAIGFMDICFGSFVVLLKAREKFKAEKLLDESKTPSLCKWADRFLSDETVKNVAPEIEKVAEFLQELEVRAQSAASRS |
| 3196 | sp|Q01766|HAL1\_YEAST | MHFKDLGLHDYTLKNLMYENNCCKFYDAVDENNISYVLKFVPSDVTSEGDTFPFVDRFQVKEGVFLVYSSNDFGKEGTDYFTYTGSGGNEVHISGTSSEAGIKPQFIETCHPKHLKRGTKEQEDINSSTSKKSAVINNFSGEKTPNPRPQSSNISERETYVGILNVKCKNKNSSKIRSEKLVSSVIETKHTPGLASILSKEGTTYPNNADGKHISIVNPSSKIYHSSHKQIVKTPIPKSGLSPIERCPFNGQNIKCYSPRPLDHESPQRDFNNNFQLRILKSSVLQRRQSTQNS |
| 3197 | sp|Q98R67|GRPE\_MYCPU | MKNKILVKNNELTVDISAFDDKDEVLSLQRKNFNLILGKDSFLRGFDANLIGQKSLPLYEFSMVIPSDFKDEKLRGKTLDFKVHNKAKIKVNSETNLDKEKIKSLEKELANQKEKNALLLLDNVKLKSEKEKIIKDFKDEIKTFENRAREKIAEKLNLEKQLLENKFEDFKKYGSQKIFESIMPIIQNLLVAIE |
| 3198 | sp|B0KIS6|GRPE\_PSEPG | MADDQLNEKDLNAEEAAAVDNGARVQELEEQLAAAKDQSLRVAAEAQNSIRRAEQEVDKARKFALEKFSSDLLPVIDSLELALAHSSADDEHVKQIREGVELTLKMFQDTLKRYNLEAVDPHGQPFNPEHHQAMAMQENAEVEPNSVLNVFQKGYLLNGRLLRPAMVVVSKAPAAPQPSIDEKA |
| 3199 | sp|A6VCL9|GRPE\_PSEA7 | MADEQQQTLDPQAPEQTDAPEAAKDLTARVQELEEQLAAAQDQSLRLVADLQNVRRRAEQDVEKAHKFALEKFAGDLLAVVDTLERGLQMSNPDDEAIRPMREGMELTLKMFDDTLRRYQVEAINPEGEPFNPEQHQAMVMEESATAEPGSVLKVFQKGYLISGRLLRPAMVVVSKAPSETPPSIDEQA |
| 3200 | sp|Q8XB78|HCHA\_ECO57 | MTVQTSKNPQVDIAEDNAFFPSEYSLSQYTSPVSDLDGVDYPKPYRGKHKILVIAADERYLPTDNGKLFSTGNHPIETLLPLYHLHAAGFEFEVATISGLMTKFEYWAMPQKDEKVMPFFEQHKSLFRNPKKLADVVASLNADSEYAAIFVPGGHGALIGLPESQDVAAALQWAIKNDRFVISLCHGPAAFLALRHGDNPLNGYSICAFPDAADKQTPEIGYMPGHLTWYFGEELKKMGMNIINDDITGRVHKDRKLLTGDSPFAANALGKLAAQEMLAAYAG |
| 3201 | sp|Q3J2L7|HFQ\_RHOS4 | MAADKQNLQDAFLNHVRKAKVPVTIFLINGVKLQGVITWFDNFCVLLRRDGQSQLVYKHAISTIMPGQPINLYEGDD |
| 3202 | sp|A5IQA5|HCHA\_STAA9 | MSQDVNELSKQPTPDKAEDNAFFPSPYSLSQYTAPKTDFDGVEHKGAYKDGKWKVLMIAAEERYVLLENGKMFSTGNHPVEMLLPLHHLMEAGFDVDVATLSGYPVKLELWAMPTEDEAVISTYNKLKEKLKQPKKLADVIKNELGPDSDYLSVFIPGGHAAVVGISESEDVQQTLDWALDNDRFIVTLCHGPAALLSAGLNREKSPLEGYSVCVFPDSLDEGANIEIGYLPGRLKWLVADLLTKQGLKVVNDDMTGRTLKDRKLLTGDSPLASNELGKLAVNEMLNAIQNK |
| 3203 | sp|C6DFJ7|HFQ\_PECCP | MAKGQSLQDPFLNALRRERVPVSIYLVNGIKLQGQIESFDQFVILLKNTVSQMVYKHAISTVVPSRPVSHHSNNPGGGSNYHGNNTAASQQSQEADDAE |
| 3204 | sp|C4L9M9|HFQ\_TOLAT | MAKGQSLQDPFLNALRRERIPVSIYLVNGIKLQGQVESFDQFVILLKNTVSQMVYKHAISTVVPARPVAHHTAPAAGDSDSQSEE |
| 3205 | sp|Q5F9R5|HFQ\_NEIG1 | MTAKGQMLQDPFLNALRKEHVPVSIYLVNGIKLQGQVESFDQYVVLLRNTSVTQMVYKHAISTIVPARSVNLQHENKPQAAPASTLVQVETVQQPAE |
| 3206 | sp|B1L8W9|HFQ\_THESQ | MAEKFNLQDRFLNHLRVNKIEVKVYLVNGFQTKGFIRSFDSYTVLLESGNQQSLIYKHAISTIIPSSYVMLMPRKQEPEKEDETPEDQGS |
| 3207 | sp|Q3KJK8|HICA\_PSEPF | MKYSEFRRWLKAQGVEFQTGKGSHFKVSLNGKSTVFPDHGAKEMGEGLRKSIVKQLGLKD |
| 3208 | sp|Q493V9|HFQ\_BLOPB | MHKVQSLQDPFLNVLRRERVPVFIYLINGIKLQGEIESFDKFVILLRNTVNQMIYKHAISTIVPSRVVSYYVGRAGNHTTF |
| 3209 | sp|Q7NS93|HFQ\_CHRVO | MSSKGQMLQDPFLNILRKEHVPVSIYLVNGIKLQGQVESFDQYVVLLKNTVTQMVYKHAISTVVPARPVNIPHEHPAQKQEQAQDA |
| 3210 | sp|Q7MZD8|HICB2\_PHOLL | MSKNMRYPVKFEHDETGWAVMFPDIPEALTGGDTREEALAMAQDALVTAFDFYFEDRREIPTPSTKGEAFVEVPASIAAKVLLLNTMLQTRTSNAELARLLGTRPQEIQRIVSLSHSTKIDTIANALNALGKHLELVAI |
| 3211 | sp|P31157|ISIA\_SYNP2 | MQTYDNPDVKYEWWAGNARFADLSGQFIGAHVAHAALIVFWAGAFTLFEISYFDPTLPMGEQNLILLPHLATLGLGIEGNGAINTEPYFVIGAIHLISSAVLAAGGLFHVLRGPQDLKTATGPARRFHFDWEDPKQLGLILGHHLLLLGLGAFLLVAKAMYFGGLYDTATQTVRLVTEPTLDPAVIYGYQTHFATVDNLEDIVGGHIYVGVLLVAGGIWHILVPPLQWAKKVLLFSGEAILSYSLGAIALAGFVAAYFCAVNTTAYPVEFYGPVLDVKLSIVPYFADTIELPMNEHTSRAWLANAHFFFAFFFLQGHLWHALRAMGFDFRRVEKVLSDPLDA |
| 3212 | sp|P18612|KIN1\_ARATH | MSETNKNAFQAGQTAGKAEEKSNVLLDKAKDAAAGAGAGAQQAGKSVSDAAAGGVNFVKDKTGLNK |
| 3213 | sp|A8WXF6|KCC2D\_CAEBR | MMNACTKFSDNYDVKEELGKGAFSVVRRCVHKTTGLEFAAKIINTKKLSARDFQKLEREARICRKLQHPNIVRLHDSIQEESFHYLVFDLVTGGELFEDIVAREFYSEADASHCIQQILESIAYCHSNGVVHRDLKPENLLLASKAKGAAVKLADFGLAIEVNDSEAWHGFAGTPGYLSPEVLKKDPYSKPVDIWACGVILYILLVGYPPFWDEDQHRLYAQIKAGAYDYPSPEWDTVTPEAKSLIDSMLTVNPKKRITADQALKVPWICNRERVASAIHRQDTVDCLKKFNARRKLKAAISAVKMVTRMSGVLRTSDSTGSVASNGSTTHDTSQIAGTSSQPTSPAAEGAILTTMIATRNLSNLGRNLLNKKEQGPPSTIKESSESSQTIDDNDSEKAQKQDIVRVTQTLLDAISCKDFDTYTRLCDTSMTCFEPEALGNLIEGIEFHRFYFDGNRKNQVHTTMLNPNVHIIGEDAACVAYVKLTQFLDRNGEAHTRQSQESRVWSKKQGRWLCVHVHRSTQPSTNTTVSEF |
| 3214 | sp|Q1RID6|LON\_RICBR | MNKKSLPLMALRDIVVFPGVIAPVFVGRQKSLHALSNTTLSEEDNSKYILVTLQKKFDQENPNRNELYDVGILAKVIQIVKLPNTTAKILVEAIARVKISNIKGDEAFEANYEIIPDEEIFDANNMRSLVDNAVQLFAKYAGSDKKINAEIIETINKEISETSNFINIINILASHLITSLEEKQRLLEETSPFKRISTIINILTSNIVNSETEQALQQRVKKQIEKTQRDYYLHEQMKAIQKELDEDKSDLAEFDKKIKAAKLSKEAREKAEAELKKLRTMNQMSAESGVTRNYLETLLSLPWGKYDNSKIDINQAEKILNRDHFGLEKVKERIIEYLAVLQRSSKIRGPILCLIGPPGVGKTSLIKSIAEGMGRKYTKFALGGVRDEAEIRGHRKTYLGSMPGKILTQLKKVKTSNPVMLLDEIDKMGSDFRGDPASALLEVLDPEQNSHFVDHYLEVEYDLSNVIFIATANSYNLPRALIDRMEIIDISGYMEEEKIQIAKNYLVPKQLKMHKIKKDEITISDDAILDLIRYYTKESGVRSLEREIGALTRKALKQILADKKVKHISVDSNNLEEFLGARKYNFGLAEKNDQIGSTTGLAYTEVGGELLTIEALSFPGKGEIKTTGKLGDVMKESAMAAYSCFRSRAADFGLKYEDYKDFDVHIHVPAGAIPKDGPSAGCALFTTIVSLMTKIPVRRTVAMTGEVTLRGNVLPIGGLKEKLLAASRGGIKTVLIPEENVKDLKDIPPNIKSSLEIIPVSNIDQVLEHALTKKT |
| 3215 | sp|Q2NEP8|LON\_METST | MTQEMENENLSFTQQLRKDGFIKDIDTNPTCFDDTDSQNQLPIIFIPNTILLPHTDITLNLDKQHTDNLLHTVDDNNHGIILTPKKLEEGNGNVEFYDVGVILEIKSLTEDKENELLPEEYVLELKVKDKVYVNKILKKDGFFHAQYKILPEENTLTEDEITELNKNIDETVLEIAKFLPNTDKYTRKILGKLDTQDKLAEVFPFLKVPINKKQELLELDSVKIRALKVIQLLLEQKDAIGIQMELAKKLNKKMNETHKNTLLREQMKLIQEELNMTDDTPAHKTYRERIKDAQLPKEVEEAALEEVTKLERQGQNNAEENIIRNYLDTILQLPWHKEENPTIDIVKAKKQLNDDHYGLKKVKTRIIQHLTVLKMKKDKQGSILLFVGPPGTGKTSLGKSIAAALERPYVRVSLGGVNDESEIRGHRRTYLGALPGRIINGMKKAGKTNPVFVLDEIDKMTESLNGNPTSALLEVLDPEQNDSFSDNYLEVPYDLSDVFFIGTANSLQDIPGPLRDRLEIIELDSYTNTEKHHIADEHLIKEVLLEHGLTEDDLKITYDAIDCLIEKYTRESGVRGLKREIAAIARYVTEKIVVDNVERPYVVDENMLYDILGHEKSHYDKVPDSNPPGVVTGLAWTPIGGDILFIEAVLLPGEEKLKLTGQLGDVMKESAQIAQSLIKSRLATVLKDSDIEKRDIHIHVPAGSIPKDGPSAGVTLLTTIASLVTNTPVDSTLAMTGEISLRGKVLPVGGIKEKVIAAHRSGIKTVLLPEENMKDLDDVPCEVKDDMTFKPMKTVDEVLYEALGLKLPENKPLNISIDEINKVTP |
| 3216 | sp|Q31FD3|LON2\_HYDCU | MTYHNDSTDLETLEIQELETEMDDSMHEEDIEFNEFVDNTSEFEEAESNQQNEAIDGEHIANDQSDMDSTMTQLVTANSSKPDSLYLLPVKERPFFPGQTLPIILDKNSWSKTIKKVIDEKIHYIGIIYVEADDHHKAKPKDFAKTGTLIRIHEPKIKEDYIQLIAEGVCRFQIADWLSSSAPFRARVNYPNDIRNGSPKEFKAYGLAIMNAFKELLPLNPLYSEELKYFLNRYSASDSQHLADFAASLTAASNEKLQDLLDTLDLSERLEKVLSLFKHEIEVTKLQFNIRERVEENLSQQQREFFLHQQLKEIQKELGMVKDDRTADADLFQERLDKLELSEEATKKAEEELGKINMLDPQSPEYGVARNWLDWLTQLPWGKYSDDKLDLGRARKILNKGHDGLDDVKDRILEFLAVGALKGEISGSIICLVGPPGVGKTSIGRSIADTLGRKFYRFSVGGMRDEAEIKGHRRTYIGAMPGKFVQALKDCETANPVIMLDEIDKIGSSYQGDPASALLEVLDPEQNSEFMDHYMDVRFDLSKTLFVCTANTLDSIPGPLLDRMEVIRLSGYITEEKIQIAKHHLWPSLLEDAGLNKKQIQITPATIRHVIEGYAREAGVRNLKKQLAKLIRKLAIKFVNGDMEQTTLHVNDLEEMLGQPRFTPEKTNQQMGTVTGLAWTSMGGATLTIEASRVHTLNRGFKLSGQLGDVMQESASIAYSYIASNLDKYKADPEFFDKAFVHLHVPDGATPKDGPSAGVTMATALLSLARNEAIKKPLAMTGELSLTGQVLPVGGIREKVIAARRVGIKELILPDENRKDYDELPDYLKEGMTLHFAKHFDDVAKLTFHIRSKSSALKKYLSKAVISTEEKTEQETTS |
| 3217 | sp|P46067|LON\_ERWAM | MNPERSERIEIPVLPLRDVVVYPHMVIPLFVGREKSIRCLEAAMDHDKKIMLVAQKEASTDEPGINDLFSVGTVASILQMLKLPDATVKVLVEGLQRARISALSDNGDHFTAKAEYLTSPEIEEREQEVLVRTAINQFEGYIKLNKKIPPEVLTSLNSIDDAARLADTVAAHMPLKLSDKQSVLEMSDVDERLEYLMAMMESEIDLLQVEKRIRNRVKKQMEKSQREYYLNEQMKAIQKELGEMDDAPDENEALKRKIDAARMPKEAREKTEAELQKLKMMSPMSAEATVVRGYIDWMVQVPWNARSKVEKDLQKRRQTLDTDHFGLERVKDRILEYLAVQSRVSKIKGPILCLVGPPGVGKTSLGQSIAKATGRKYVRMALGGVRDEAEIRGHRRTYIGSMPGKLIQKMAKVGVKNPLFLLDEIDKMSSDMRGDPASALLEVLDPEQNIAFNDHYLEVDYDLSDVMFVATSNSMNIPAPLLDRMEVIRLSGYTEDEKLNIAKKHLLSKQIERNALKEHELIVDDSAIVGIIRYYTRERGVRSLERELSKLCRKAVKTLLMDKSVKHIEINADNLKDYLGVQRYDYGRADSENRVGQVTGLAWTEVGGDLLTIETACVPGKGKLTYTGSLGEVMQESIQAALTVVRARAEKLGINGDFYEKRDIHVHVPEGATPKDGPSAGIAMCTALVSCLTGNPVRADVAMTGEITLRGQVLPIGGLKEKLLAAHRGGIKTVLIPDENKRDLEEIPENVIADLDIHPVKRIEEVLALALQNAPYGMQVASVK |
| 3218 | sp|B8G736|LON\_CHLAD | MNEPMSLFDDLPEEHDEPQEAPERRLPMVVLGEMVIMPHMTIPLQVPQGKSYRAMERAWEEDRDVLLIFVREHQLEGYKSNQPQNLPPIGVIAQLQEFAKLNDGTARVILEGQSRAQIIEAIQITPFYRVRCRPYTDPPVSGLEVEALMETVKQQVDEFVEHLGEVPQEAVQFVHRIDRPGHLADIVTWGPAFDFKDRLEVLNTLDPVERLRKVYLVLARQLELLKLRVKIQQDTKEVLDQSQREYFLREQLRIIRRELGEDEEGDDPIDELRRKIHELDAPEYVKNQALHELKRLAQQGMNNPESGVIRTYLDWILSLPWADEELPEISITEAQKVLDADHYGLEKVKERILEYLAVRKLAGDKMRSPILCFVGPPGVGKTSLGRSIARALGRKFVRTSLGGVRDEAEIRGHRRTYIGAMPGRIIQAMKNAKSKSPVYILDEVDKIGLDFRGDPTSALLEVLDPEQNNAFSDHYLEIPFDLSKVIFIATANQLDPIPLPLRDRMEIIEIGGYTEDEKLEIARGFLIPKQREFHGLTEDQIEFTEGAILKLIREYTREAGVRGLEREIASLCRKVARQVAEQTEANGELPPKFVIDEAAVVKYLGPERYTYGIAEEQDEVGVATGVAWTSAGGDILSIEVLPFKGKGQLQLTGQLGEVMKESAQTAVSYVRSRAADFGIDPNTFEETNIHIHIPEGAVPKDDPSAGITLTTALISALTGTPVRRDVAMTGEVTLRGKVLPIGGLKEKTLAAHRAGIRTFILPKENAKDISELPEKVRRELNLIPVSSMDEVLRIALSRMPTPANNQNGSHTNNRGQPSPAPAGT |
| 3219 | sp|Q180E4|LON\_CLOD6 | MEQNYTKIDHELPLIPLRGLAIFPYMILNFDIGREISLKALDQAMMDEELIFLTSQKEAEVDEPGEEDFYHVGTICKVKQMIKLPGDTVRVLVEGVSRGRVKKIEQEDGYFRAVIEEIVFDSDNLDSETEVEIEAFVRNVFDAFEEYINIGNRVSPEILISLADIEDVDRFIDTIAANIYLKSSQKQEILEEFDIRKRLELIYSILLEEIDILKIEKKITLRVKKQMNKVQKEYYLREQLKAIQKELGEEEDINSEADEYREKLKKIKAPKTTKEKIEKEIDKFSKISSMSPDVSVSRNYLDTIFSLPWNKETKDKLDITKAKDILDEDHYGLEKVKERILEYLAIRTLAKSLKGPIICLVGPPGTGKTSIVKSIARALNRKFVRISLGGVRDEAEIRGHRRTYVGSIPGRIINGVKEAQTKNPVFLFDEIDKMAADYKGDPASAMLEVLDPEQNKDFVDHYLEIPFDLSKILFVTTANSLGNIPRPLLDRMEVIEVSGYIEEEKLNIAKKYLLPKQIKEHALKENFIKIDDETLRSIINHYTREAGVRTLERTIGKICRKVAKKYVEDPTLEEVVINKSDLETYLGKDMFKYQLAEVNPQIGLVNGLAWTEVGGVTLEVEVNVLKGKGEIVLTGKLGDVMKESAKTGISYIRSIVDKFDIDPEFYKTNDIHIHIPEGAVPKDGPSAGITMALAVISALTKRPVPGNIAMTGEITLRGRVLAVGGVKEKLLAAHRAGITKVLIPKECEADLDEIPENVKEKMEFVLVEHMDEVLEQALLKSGENNEN |
| 3220 | sp|C7GVL7|MBR1\_YEAS2 | MRMEKTTDKPLSAGDMNDEYSRGPIDDIDCLNFFERAVQDPCCEACDTEDADEELRAKLSSFNFQPDSSPCNAKCQQTLNPLCKIDEGLPAESELAPSRNGSVSEANSDTNSIASTVHDPVDSKYGGMPSLRKAKTTSYFTSSSSNNTTMRNPLKKCNTNINGLLVNRRSSSSSRQSIPELFSGACTKKKNNVLLKSETPNSEFSTNSLQHCNSRSFSLPRSRSRSSAIAIPTHLYGLEKYVSPELDTLTADPEESIERFSNNRPREISSCCPNDTGDTSSSLSHSNTSSSLNFPLGTNTNQFHQPRQPVQQQQSSKPNFGAGRKKSFIEMSLASSFAG |
| 3221 | sp|P68179|LT01\_HORVU | MGSATVLEVILAIILPPVGVFLRYKLGVEFWICLLLTILGYIPGIIYAVYVLVV |
| 3222 | sp|Q3U1V8|M3K9\_MOUSE | MESSRSLLGCLASATAAPPGDDATGAGAEEEEDEEEAAAELGSHAALPYWTAVFEYEAAGEDELTLRLGDVVEVLSKDSQVSGDEGWWTGQLNQRVGIFPSNYVTPRSAFSSRCQPGAEDPSCYPPIQLLEIDFAELTLEEIIGIGGFGKVYRAFWAGDEVAVKAARHDPDEDISQTIENVRQEAKLFAMLKHPNIIALRGVCLKEPNLCLVMEFARGGPLNRVLSGKRIPPDILVNWAVQIARGMNYLHDEAIVPIIHRDLKSSNILILQKVENGDLSNKILKITDFGLAREWHRTTKMSAAGTYAWMAPEVIRASMFSKGSDVWSYGVLLWELLTGEVPFRGIDGLAVAYGVAMNKLALPIPSTCPEPFAKLMEDCWNPDPHSRPSFTSILDQLTTIEESGFFEMPKDSFHCLQDDWKHEIQEMFDQLRAKEKELRTWEEELTRAALQQKNQEELLRRREQELAEREIDILERELNIIIHQLCQEKPRVKKRKGKFRKSRLKLKDGNRISLPSDFQHKFTVQASPTMDKRKSLISNRSSPPASPTIIPRLRAIQLTPGESSKTWGRSSVVPKEEGEEEEKRAPKKKGRTWGPGTLGQKELTSGDEGLKSLVDGYKQWSSSAPNLGKGPRSSPALPGFTSLMEIEDEDSEGPGSGENHQQHSPNQSYLCIPFPRGEDGDGPSSDGVHEEPTPVNSATSTPQLTPTNSLKRGGTHHRRCEVALLGCGAVLAATGLGFDLLEAGKCQLLPPEEPEPPAREEKKRREGLFQRASRPRRSTSPPSRKLFKKEEPMTLLGDPSASLTLLSLSSISECNSTRSLLRSDSDEIVVYEMPVSPVEAPPLTQCTHNPLVNVRVERFKRDPNQSLTPTHVTLTAPTQPSGHRRTPSDGALKPTAAPAVLGSRSPSSNGMSPSPGTGMLKTPSPSRDPGEFPRLPDPNVVFPPTPRRWNTQRDSTLERPKTLEFLPRPRPSANRQRLDPWWFVSPSHARSASPANSSSTETPSNLDSCFASSSSTVEERPGLPALLPLQAGPLLPAERTLLDLDAEGQSQDSTVPLCRAELNAHGPSPYEIQQEFWS |
| 3223 | sp|Q94A06|M2K1\_ARATH | MNRGSLCPNPICLPPLEQSISKFLTQSGTFKDGDLRVNKDGIQTVSLSEPGAPPPIEPLDNQLSLADLEVIKVIGKGSSGNVQLVKHKLTQQFFALKVIQLNTEESTCRAISQELRINLSSQCPYLVSCYQSFYHNGLVSIILEFMDGGSLADLLKKVGKVPENMLSAICKRVLRGLCYIHHERRIIHRDLKPSNLLINHRGEVKITDFGVSKILTSTSSLANSFVGTYPYMSPERISGSLYSNKSDIWSLGLVLLECATGKFPYTPPEHKKGWSSVYELVDAIVENPPPCAPSNLFSPEFCSFISQCVQKDPRDRKSAKELLEHKFVKMFEDSDTNLSAYFTDAGSLIPPLAN |
| 3224 | sp|P36027|MID2\_YEAST | MLSFTTKNSFRLLLLILSCISTIRAQFFVQSSSSNSSAVSTARSSVSRVSSSSSILSSSMVSSSSADSSSLTSSTSSRSLVSHTSSSTSIASISFTSFSFSSDSSTSSSSSASSDSSSSSSFSISSTSATSESSTSSTQTSTSSSSSLSSTPSSSSSPSTITSAPSTSSTPSTTAYNQGSTITSIINGKTILSNHYTTVTYTPSATADSSNKSKSSGLSKKNRNIVIGCVVGIGVPLILVILALIYMFCIQSSRTDFIDSDGKVVTAYRANKFTKWWYMLLGKKVSDEYHSDSPLGGSASSAGGLDLDEADDVMEQSSLFDVRIRDSDSVLPNANTADHNNTNSGGEPINSSVASNDIIEEKFYDEQGNELSPRNY |
| 3225 | sp|A5A616|MGTS\_ECOLI | MLGNMNVFMAVLGIILFSGFLAAYFSHKWDD |
| 3226 | sp|Q6Z7B0|BIP1\_ORYSJ | MDRVRGCAFLLGVLLAGSLFAFSVAKEETKKLGTVIGIDLGTTYSCVGVYKNGHVEIIANDQGNRITPSWVAFTDSERLIGEAAKNQAAVNPERTIFDVKRLIGRKFEDKEVQRDMKLVPYKIVNKDGKPYIQVKIKDGENKVFSPEEVSAMILGKMKETAEAYLGKKINDAVVTVPAYFNDAQRQATKDAGVIAGLNVARIINEPTAAAIAYGLDKKGGEKNILVFDLGGGTFDVSILTIDNGVFEVLATNGDTHLGGEDFDQRIMEYFIKLIKKKYSKDISKDNRALGKLRREAERAKRALSNQHQVRVEIESLFDGTDFSEPLTRARFEELNNDLFRKTMGPVKKAMDDAGLEKSQIHEIVLVGGSTRIPKVQQLLRDYFEGKEPNKGVNPDEAVAYGAAVQGSILSGEGGDETKDILLLDVAPLTLGIETVGGVMTKLIPRNTVIPTKKSQVFTTYQDQQTTVSIQVFEGERSMTKDCRLLGKFDLSGIPAAPRGTPQIEVTFEVDANGILNVKAEDKGTGKSEKITITNEKGRLSQEEIDRMVREAEEFAEEDKKVKERIDARNQLETYVYNMKNTVGDKDKLADKLESEEKEKVEEALKEALEWLDENQTAEKEEYEEKLKEVEAVCNPIISAVYQRTGGAPGGGADGEGGVDDEHDEL |
| 3227 | sp|Q9X4A5|BETL\_LISMN | MKKLTNVFWGSGFLVLLAVLFGAFLPEQFETFTNHIQKFLTSNFGWYYLIVVAIIIIFCLFLVLSPIGSIRLGKPGEEPGYSNKSWFAMLFSAGMGIGLVFWGAAEPLSHYAVQAPGGEVGTQAAMKDALRYSFFHWGISAWSIYAIVALALAYFKFRKNAPGLISATLYPILGKHAKGPIGQLIDIIAVFATVIGVATTLGLGAQQINGGLTYLFGVPNNFTVQFTIIVIVTILFMLSAMSGLDKGIQLLSNVNIYVAGVLLVLTLILGPTLFIMNNFTNSFGDYLQNIIQMSFQTAPDAPDARKWIDSWTIFYWAWWLSWSPFVGIFIARISRGRTIRQFLLGVIVLPALVSVFWFAVFGGSAIFVEQHGNSGLSSLATEQVLFGVFNEFPGGMMLSIVAMILIAVFFITSADSATFVLGMQTTGGSLNPPNSVKVTWGLLQAGIASVLLYAGGLTALQNASIIAAFPFSIVIILMIVSLFVSLTREQEKLGLYVRPKKSQRSQL |
| 3228 | sp|O80673|CAMK1\_ARATH | MGICHGKPVEQQSKSLPVSGETNEAPTNSQPPAKSSGFPFYSPSPVPSLFKSSPSVSSSVSSTPLRIFKRPFPPPSPAKHIRAFLARRYGSVKPNEVSIPEGKECEIGLDKSFGFSKQFASHYEIDGEVGRGHFGYTCSAKGKKGSLKGQEVAVKVIPKSKMTTAIAIEDVSREVKMLRALTGHKNLVQFYDAFEDDENVYIVMELCKGGELLDKILQRGGKYSEDDAKKVMVQILSVVAYCHLQGVVHRDLKPENFLFSTKDETSPLKAIDFGLSDYVKPDERLNDIVGSAYYVAPEVLHRTYGTEADMWSIGVIAYILLCGSRPFWARTESGIFRAVLKAEPNFEEAPWPSLSPEAVDFVKRLLNKDYRKRLTAAQALCHPWLVGSHELKIPSDMIIYKLVKVYIMSTSLRKSALAALAKTLTVPQLAYLREQFTLLGPSKNGYISMQNYKTAILKSSTDAMKDSRVFDFVHMISCLQYKKLDFEEFCASALSVYQLEAMETWEQHARRAYELFEKDGNRPIMIEELASELGLGPSVPVHVVLQDWIRHSDGKLSFLGFVRLLHGVSSRTLQKA |
| 3229 | sp|Q9LKN0|CHMO\_ATRHO | MAASATTMLLKYPTTVCGIPNSSANNSTDPSNNIVQIPQTTTTNSPLLKFRTPNKPVNAVAAPAFPSVTTTTTTTPSSIQSLVKDFDPLVPAEDALTPPSSWYTEPAFYAHELDRIFYKGWQVAGYSDQVKEANQYFTGTLGNVEYLVCRDGEGKVHAFHNVCTHRASILACGSGKKSCFVCPYHGWVYGMNGSLTKASKATPEQSLNPDELGLVPLKVAVWGPFILISLDRSSREVGDVGSEWLGSCAEDVKAHAFDPNLQFINRSEFPIESNWKIFSDNYLDSSYHVPYAHKYYATELDFDTYQTDMVGNVTIQRVAGTSNNGFNRLGTQAFYAFAYPNFAVERYGPWMTTMHIVPLGPRKCKLVVDYYIEKSKLDDKDYIEKGIAINDNVQKEDVVLCESVQKGLETPAYRSGRYVMPIEKGIHHFHCWLHQVLK |
| 3230 | sp|P44403|CLPB\_HAEIN | MNIEKFTTKFQEALSERQSLAIGKDNQFIEPVHLLTALLNQQGGSIAPILTASGVNVALLRNELKTELNKLPQVIGNGGDVQLSRQLINLLNLCDKFAQQNQDKFISSELFLFAALEERGTISDILKKCGAKKEQISQAIQHIRGGQNVNDQNAEESRQALEKYTIDLTARAESGKLDPVIGRDEEIRRAIQVLQRRTKNNPVLIGEPGVGKTAIVEGLAQRIVNGEVPEGLKNKRVLSLDMGALIAGAKYRGEFEERLKAVLNELSKEEGRVILFIDEIHTMVGAGKTDGAMDAGNLLKPSLARGELHCVGATTLDEYRQYIEKDAALERRFQKVFVDEPSVEDTIAILRGLKERYEIHHHVDITDPAIVAAATLSHRYISDRQLPDKAIDLIDEAASSIRMEIDSKPEPLDRLERRIIQLKLEQQALQKEEDEASRKRLEMLEKELAEKEREYAELEEVWKSEKATLSGSQHIKQELDTAKTELEQARRAGDLAKMSELQYGRIPDLEKQLEQAETSEGKEMTLLRYRVTDEEIAEVLSKATGIPVSKMMEGEKEKLLRMEDELHKRVIGQEEAVDAVANAIRRSRAGLSDPNRPIGSFLFLGPTGVGKTELCKTLAKFLFDSEDAMVRIDMSEFMEKHSVSRLVGAPPGYVGYEEGGYLTEAVRRRPYSVILLDEVEKAHADVFNILLQVLDDGRLTDGQGRTVDFRNTVVIMTSNLGSDLIQGNKDESYSEMKALVMSVVSQHFRPEFINRIDETVVFHPLGKENIRAIASIQLERLAKRMETRGYELVFTDALLDFIGEVGYDPIYGARPLKRAIQQEIENSLAQQILSGALLPGKVVTIDYANAEVQARQ |
| 3231 | sp|P0A3Z5|DEGPL\_BRUSU | MSRARISNYRKGVAAVALSAALAGAFVVTGPLGALNEARAEAVHVTPPPQAGFADLVEKVRPAVVSVRVKKDVQETSNRGPQFFGPPGFDQLPDGHPLKRFFRDFGMEPRGDSRSDNRRGKANKPRPGHERPVAQGSGFVISEDGYVVTNNHVVSDGDAYTVVLDDGTELDAKLIGADPRTDLAVLKINAPKRKFVYVAFGDDNKVRVGDWVVAVGNPFGLGGTVTSGIVSARGRDIGAGPYDDFIQIDAAVNKGNSGGPAFDLSGEVIGINTAIFSPSGGSVGIAFAIPSSTAKQVVDQLIKKGSVERGWIGVQIQPVTKDIAASLGLAEEKGAIVASPQDDGPAAKAGIKAGDVITAVNGETVQDPRDLARKVANIAPGEKAALTVWRKNKAEEINVTIAAMPNDKGKSGSQSNDNDGGQGETLDSYGLTVVPSEDGKGVVVTDVDPDSDAADRGIRSGDVIVSVNNQTVKTAGDINKAITAAEKSGRKAVLLQLQSNDQSRFVALPINQE |
| 3232 | sp|Q9C5E5|DGK5\_ARATH | MEKYNSLSDFLKEFYIPTYVLSAETEEEEEEESRPTPASPVLVFINSKSGGQLGGELILTYRSLLNHNQVFDLDQETPDKVLRRIYLNLERLKDDDFARQIREKLKIIVAGGDGTAGWLLGVVCDLKLSHPPPIATVPLGTGNNLPFAFGWGKKNPGTDRTAVESFLEQVLKAKVMKIDNWHILMRMKTPKEGGSCDPVAPLELPHSLHAFHRVSPTDELNKEGCHTFRGGFWNYFSLGMDAQISYAFHSERKLHPEKFKNQLVNQSTYVKLGCTQGWFCASLFHPASRNIAQLAKVKIATRNGQWQDLHIPHSIRSIVCLNLPSFSGGLNPWGTPNPRKQRDRGLTPPFVDDGLIEVVGFRNAWHGLVLLAPNGHGTRLAQANRIRFEFHKGATDHTFMRMDGEPWKQPLPLDDETVMVEISHLGQVNMLATHDCRSRSVFDPSTPRHQDGAEDYDDNEDDSVAEGEEFRKFGAADTFKIPDEGEHSNKKGRASRRRNSNVHGWSHVL |
| 3233 | sp|Q2G6N0|DNAK\_NOVAD | MAKVIGIDLGTTNSCVAVMDGGTPKVIENSEGARTTPSIVAFTKDGERLIGQPAKRQAVTNPDNTIFAVKRLIGRRFDDPMTQKDTELVPYTITKGKNGDAWVKAGGQDYSPSQISAFTLQKMKETAEAYLGETVTQAVITVPAYFNDAQRQATKDAGQIAGLEVLRIINEPTAAALAYGLDKQDGKTIAVYDLGGGTFDISILEIGDGVFEVKSTNGDTFLGGEDFDTAVVEYLADKFKAKEGMDLKTDKLALQRLKEAAEKAKIELSSAQTTEINLPFITARMEGGATTPLHLVETVTRADLEKLVAGLIQRTLDPCKKALADAGISAKEIDDVVLVGGMTRMPKVREVVKDFFGKEPHTGVNPDEVVAMGAAIQAGVLQGDVKDVLLLDVTPLSLGIETLGGIMTKMIDRNTTIPTKKSQVYSTAEDNQQAVTIRVFQGEREMAQDNKLLGQFDLVGIPPARRGVPQIEVTFDIDANGIVNVSAKDKGTGKEQQIRIQASGGLSDADIDQMVRDAEKFAEEDKKRRAAAEAKNNAESLIHATERQLEENGDKVDAGLKAEIEAAIAEAKTAVESGDIDAMNAKAQALTDKAMKMGQAIYEKEQATAASPGAEAPKADDDVVDAEFSEVDENK |
| 3234 | sp|P63971|DNAJ\_STAAN | MAKRDYYEVLGISKDASKDEIKKAYRKLSKKYHPDINKEEGADEKFKEISEAYEVLSDDNKRASYDQFGHDGPQGFGGQGFNGSDFGGFSGFGGGGFEDIFSSFFGGGRQRDPNAPQKGDDLQYTMTLTFEEAVFGTTKEISIRKDVTCETCHGDGAKPGTSKKTCSYCNGAGHVAVEQNTILGRVRTEQVCPKCNGSGQEFEEACPTCHGKGTENKTVKLEVKVPEGVDNEQQIRLAGEGSPGVNGGPAGDLYVVFRVKPSETFKRDGDDIYYKLNVSFPQAALGDEIKIPTLNNEVMLTIPAGTQTGKQFRLKEKGIKNVHGYGYGDLYVDIKVVTPTKLTDRQKELMKEFAQLNGEEINEQPSNFKDRAKRFFKGE |
| 3235 | sp|O06430|DNAK\_NITEU | MAKIIGIDLGTTNSCVAVMEGNKPKVIENAEGARTTPSIVAYAEDNEILVGASAKRQAVTNPENTLFAIKRLIGRRFDEEVVQKDISVTPYKIVRADNNDAWIEARGRKIAPPEVSAQVLIKMKKTAEDYLGEPVTEAVITVPAYFNDSQRQATKDAGRIAGLEVKRIINEPTAAALAFGLDKKEGDRKIAVYDLGGGTFDISIIEIAEVEGEHQFEVLATNGDTFLGGEDFDSRVIEYLVDEFRKESGIDLKKDMLALQRLKDAAEKAKIELSSSQQTEVNLPYITADASGPKHLAVKITRAKLESLVEELIERTAGPCRTALKDAGLSVSDINDVILVGGQTRMPKVQEKVKEIFGKEPRKDVNPDEAVAIGAAIQGGVLKGDVKDVLLLDVTPLSLGIETLGGVMTKLIQKNTTIPTKAQQVFSTADDNQTAVTIHVLQGEREVASGNKSLGQFNLTDIPSAPRGMPQIEVIFDIDANGILHVSAKDKATGKENKIKIQASSGLSEDEIQKMVKDAEAHAEEDKKALDLVNSRNQCDAMIHSVRKSLAEYGDKLEGDEKSRIEAALKEAEEALKSGDKQTIDAKTQALTEASHKLAEKMYAQEQAQAGQQAGAGTASDQSQDKPVEGEVVDAEFEEVKDKK |
| 3236 | sp|A5FZ19|DNAK\_ACICJ | MSKVIGIDLGTTNSCVAIMEGKDVRVIENSEGARTTPSMVAFSESNERLVGQSAKRQAVTNPTNTLYAVKRLIGRRYDDPTVEKDKGLVSYNIVRGDNGDAWVESRGQRYAPSQISSFVLTKMKETAEAYLGEAVTQAVITVPAYFNDAQRQATKDAGKIAGLEVLRIINEPTAAALAYGMDKKQGGTIAVYDLGGGTFDISILELGDGVFEVKSTNGDTFLGGEDFDQRVIDYLAEEFKREQGIDLRKDKLALQRLKEAAEKAKIELSSSKETEINLPFITADASGPKHLVMKLTRAKLESLVDDLVERTLGPCRAALKDAGVTAGEIDEVILVGGMTRMPKVIETVKTFFGKEPARNVNPDEVVAIGAAIQGAVLKGDVKDVLLLDVTPLSLGIETLGGVFTRLIDRNTTIPTKKSQTFSTADDNQTAVTIKVYQGEREMAADNKLLGNFDLTGIPPAPRGVPQIEVTFDIDANGIVSVSAKDKATGKEQQIRIQASGGLSDTDIERMVKDAEANAAADKAKRELVDARNHADGLVHQTEKTLKDNEGKVSAQDKGEAEAAIAAVRSALEGSDLEAIKSATERLTQVAMRIGEAMYKAQAEAGAAQPGAETAAPGDKVVDAEFEDVDDKKKSA |
| 3237 | sp|O32464|DNAK\_BUCAI | MGKIIGIDLGTTNSCVAIMDGNKPRVLENAEGDRTTPSIIAYTQEGEVLVGQPAKRQAITNPKNTLFAIKRLIGRKFKDDEVQRDIKIMPYNIVNSDNGDAWIDVKKQKMAPPQISAEVLKKMKKTAEDYLGETIKEAVITVPAYFNDAQRQATKDAGRIAGLEVKRIINEPTAAALAYGLDKGKGNRTIAVYDLGGGTFDISIIEIDEVDKEKTFEVLATNGDTHLGGEDFDSRLINYLVTEFKKEQGIDLRNDPLSMQRLKESAEKAKIELSSAQQTDVNLPYITADSNGPKHLNIKVTRAKLESLVEDLILRSIEPLKVALKDAGLSVTDINDVILVGGQTRMPMVQSKVADFFGKEPRKDVNPDEAVAVGAAVQGGVLSGDVKDVLLLDVTPLSLGIETMGGIMTSLINKNTTIPTKHSQIFSTAEDNQSAVTIHVLQGERKRSSDNKSLGQFNLDGINPAPRGTAQIEVTFDIDSDGILHVSAKDKKTGKEQKITIKASSGLNEEEIKKMVNDAEANSEADQKFEELIQTRNQGDQLVHSIKKQLNENKNSIEEESKKDIQLALNKLENALKGEDKSDIEKNIQNLLKISSKLTEINQKKSEKDQKDNNMSANKKDENVVDAEFEEIKDPKK |
| 3238 | sp|C4K110|DNAK\_RICPU | MGKVIGIDLGTTNSCVAVMEGKEPKVIENAEGERTTPSIIAFANGEKLVGQSAKRQAVTNHRNTIYAVKRLIGRNFIDPMVKKDQGIVPYNIVKADNGDAWVEADNNKYSPSQISAFILQKMKETAENYLGDKVTQAVITVPAYFNDAQRQATKDAGKIAGLEVLRIINEPTAAALAYGFEKSASKTIAVYDLGGGTFDVSILEIADGVFEVKSTNGDTFLGGEDFDTRILNHLIDVFKKENGIDLSNDPLALQRLKEAAEKAKKELSSAVTTNINLPYITADSSGPKHLNIKFTRAELEKLVDDLIEKTIEPCRKALQDAGFKASDIQEVVLVGGMTRMPKVQEAVKKFFGREPHKGVNPDEVVALGAAIQGGVLNKEVTDILLLDVTPLSLGIETLGGVFTRLIDRNTTIPTKKSQVFSTADDNQHAVTIRVFQGEREMAKDNKLLGQFNLEGIPLAPRGLPQIEVTFDIDANGIVHVSAKDKASGKEQKVTIQASGGLSDAEIEQMVKDAEQNADEDKKRKELIEAKNAADSLVYSTEKTLTEYGDKLSSDDKGAVEEALAALKAVLESEDTALIKEKTESLTAASMKIGEAMYKAQSESQPAAESAANDEKIVDADFQDVEKK |
| 3239 | sp|B9MDJ8|DNAJ\_ACIET | MSKRDFYEVLGVPKNASDDELKKAYRKLAMKYHPDRNQGDAAKPAEEKFKEAKEAYEILSDAQKRAAYDQYGHAGVDPNMRGGMGGAEGFGGFAEAFGDIFGDMFGGARGRGGRQVYRGNDLSYAMDVTLEEAAKGKEAQIRIPSWESCETCHGSGAKPGTSAKTCGTCQGSGTVQMRQGFFSVQQTCPHCRGTGKIIPEPCTACHGQGRVKKQKTLEVKIPAGIDDGMRIRSTGNGEPGTNGGPPGDLYIEIRIRKHDIFERDGDDLHCQVPVSFITAALGGEIEVPTLQGKAAIDIPEGTQAGKQFRLRGKGIKGVRASYPGDLYCHIIVETPVKLTEHQRKLLKELDESLKKGGAKHSPSTESWTDRLKSFFS |
| 3240 | sp|O67623|DNAJ1\_AQUAE | MSQAVKDYYEILGVNRDATKEEIKKAYRKLVRIYHPDINPDPSAQEKFKEINEAYHVLIDDERRSEYDAILSRNDVGKFRDFLEYIQEFVESIIQGEKGKKRRPRKGQDIKMKLPLTLEEAGLGCEKEIIYSRWMDCPVCEGMGVKGEAETVVCHACNGEGRRVSGIFNFPRPCSVCKGKGFIVKNPCPTCYGRGRVSAQHKIKVHIPPGTEEGEVLKVPEKGHLGYFGGKPGDLYLKVVLKEHPIFKKVGKDLHMEKVVSFPLAVLGGTVKVPTLEGEEIDVFIQPGTECGATKVVKEKGYPYENGRGDLIIHIRIGVPKNLSKSERKLLEKLAESIKEEGEEVYREGGSLVEKLSSLFKKNA |
| 3241 | sp|P64408|DNAK\_STAAW | MSKIIGIDLGTTNSCVTVLEGDEPKVIQNPEGSRTTPSVVAFKNGETQVGEVAKRQAITNPNTVQSIKRHMGTDYKVDIEGKSYTPQEISAMILQNLKNTAESYLGEKVDKAVITVPAYFNDAERQATKDAGKIAGLEVERIINEPTAAALAYGLDKTDKDEKVLVFDLGGGTFDVSILELGDGVFEVLSTAGDNKLGGDDFDQVIIDYLVAEFKKENGVDLSQDKMALQRLKDAAEKAKKDLSGVSQTQISLPFISAGENGPLHLEVNLTRSKFEELSDSLIRRTMEPTRQAMKDAGLTNSDIDEVILVGGSTRIPAVQEAVKKEIGKEPNKGVNPDEVVAMGAAIQGGVITGDVKDVVLLDVTPLSLGIEILGGRMNTLIERNTTIPTSKSQIYSTAVDNQPSVDVHVLQGERPMAADNKTLGRFQLTDIPPAERGKPQIEVTFDIDKNGIVNVTAKDLGTNKEQRITIQSSSSLSDEEIDRMVKDAEVNAEADKKRREEVDLRNEADSLVFQVEKTLTDLGENIGEEDKKSAEEKKDALKTALEGQDIEDIKSKKEELEKVIQELSAKVYEQAAQQQQQAQGANAGQNNDSTVEDAEFKEVKDDDKK |
| 3242 | sp|Q54215|DNAK\_STRGR | MARAVGIDLGTTNSVVSVLEGGEPTVITNAEGARTTPSVVAFAKNGEVLVGEVAKRQAVTNVDRTIRSVKRHMGTDWKIDLDGKSFNPQQMSAFILQKLKRDAESYLGEKVTDAVITVPAYFNDSERQATKEAGEIAGLNVLRIVNEPTAAALAYGLDKDDQTILVFDLGGGTFDVSLLEIGDGVVEVKATNGDNHLGGDDWDQRVVDYLVKQFANGHGVDLSKDKMALQRLREAAEKAKIELSSSTETTINLPYITASAEGPLHLDEKLTRSQFQQLTADLLDRCKTPFHNVIKDAGIQLSEIDHVVLVGGSTRMPAVAELVKELTGGQEANKGVNPDEVVAIGASLQAGVLKGEVKDVLLLDVTPLSLGIETKGGIMTKLIERNTTIPTKRSEIFTTAEDNQPSVQIQVYQGEREIAAYNKKLGMFELTGLPPAPRGVPQIEVAFDIDANGIMHVAAKDLGTGKEQKMTVTGGSSLPKDEVNRMREEAEKYAEEDHARREAAESRNQGEQLVYQTEKFLKDNEDKVPADVKTEVETAVGELKEKLKGEDSAEIRTATEKVRGRLPRIWARRCTANAQAEGAAPGADAPGDAQAKADDDVVDAEIVDDEKDTKGGAA |
| 3243 | sp|Q73GL7|DNAK\_WOLPM | MGRAIGIDLGTTNSCVAIMQGKDTKVIENKEGARTTPSIVALTSSGERLIGAPAKRQATTNASNTFFATKRLIGRQYSDPEMKNLSVPYKVFAAKSGDAWVKTTDNKEYSPSQIGAFILQNMKEAAEAYLGEEVKDAVITVPAYFNDSQRQATKDAGKIAGLNVLRIVNEPTAAALAYGLDKKHGHTIVVYDLGGGTFDVSILEIGDGVFEVKATNGDTHLGGEDFDNGVVSYLLDEFKKSNGIDLKNDPMAMQRIKEAAEKAKIELSSAMETEINLPFITADASGPKHLNMKLTRAKLESLVNDLIERTMAPCKKALEDAGLSASQIGEVVLVGGMTRMPKVIEKVKEFFGKDPHRGVNPDEVVAIGAAIQAGIIQGDVRDVLLLDVTPLSLGIETLGGVFTPLIERNTTIPTKKSQVFSTAEDNQTAVTIKVHQGERKLAVDNKLLGQFSLEGIPPAPRGRPQIEVTFDIDANGIAHVSAKDKATGKEQKIRIQSSGGLSDNEINRMVKEAEEKAQEDEKRKKFIEVKNQADSLVHSTEKSLTEYGDKVSPEDRSAIENAVNELKEVSKSDNIDDADSIQQKVTNLSQLSMKLGEAMYQTSQQNSAENGFSSEGNPNDKEEKVVDSDYQDIDNKEENK |
| 3244 | sp|Q6HDK6|GRPE\_BACHK | MEERNEQVVEEVKEAQVEEAVTPENSEETVEEKSEAALLQEKVDELQAKLTETEGRTLRLQADFENYKRRVQMDKQAAEKYRAQSLVSDILPALDNFERAMQVEATDEQTKSLLQGMEMVHRQLLEALNKEGVEVIEAVGKQFDPNEHQAIMQVEDSEFESNAVVEEFQKGYKLKDRVIRPSMVKVNQ |
| 3245 | sp|C0QX60|GRPE\_BRAHW | MEEEIKETSEDKEEENTEAEAVENNEKSEENAGNVEEDEITALKKRIEELENESADMKNKYMYAMAEAENIRKRTAKEKADSIKRANKGLLLSLLTFMDNFERALKAGEQDSNVQGSEYYKGIELIHKQFIDFMHDNGVSEIESLGEEFDPNVHEALTMIEVPDIDKEKVVEVYAKGYKLNDELLRTAKVVVGKPAAAKE |
| 3246 | sp|P30726|GRPE\_CLOAB | MQEKDSKDVTMEDEETIASQEEIEVEGNSEESSKEEESNNSEISDENLSEENLKLKDENEKLKNELDAAKDRLLRLSAEYENYRNRTAKEKEGIYTDACSDVINEMLPTLDNLERAASTEGSAEDIKKGVEMVVKQFKNSLSKLGIEEIPSEGKFDPNLHNAVMHIEDEGYGENEVVEVLQKGYKRGDKVLRHSMVKVAN |
| 3247 | sp|B1LPC1|GRPE\_ECOSM | MSSKEQKTPEGQAPEEIIMDQHEEIEAVEPEASAEQVDPRDEKIANLEAQLAEAQTRERDGILRVKAEMENLRRRTELDIEKAHKFALEKFINELLPVIDSLDRALEVADKANPDMSAMVEGIELTLKSMLDVVRKFGVEVISETNVPLDPNVHQAIAMVESDDVAPGNVLGIMQKGYTLNGRTIRAAMVTVAKAK |
| 3248 | sp|B1XBT4|GRPE\_ECODH | MSSKEQKTPEGQAPEEIIMDQHEEIEAVEPEASAEQVDPRDEKVANLEAQLAEAQTRERDGILRVKAEMENLRRRTELDIEKAHKFALEKFINELLPVIDSLDRALEVADKANPDMSAMVEGIELTLKSMLDVVRKFGVEVIAETNVPLDPNVHQAIAMVESDDVAPGNVLGIMQKGYTLNGRTIRAAMVTVAKAKA |
| 3249 | sp|B0B7W5|GRPE\_CHLT2 | MTETPNTSSEEIQTSEPSPDNELQVLQQENANLKAELQEQNDRYLMALAEAENSRKRLQKERTEMMQYAVENALMDFLPPIESMEKALGFASQTSEEVKNWAIGFQMILQQFKQIFEEKGVVEYSSKGELFNPYLHEAVEIEETTTIPEGTILEEFTKGYKIGDRPIRVAKVKVAKLPAKGNSDSNEEKE |
| 3250 | sp|Q03MR7|GRPE\_STRTD | MTEDIKEEEVKEEEATETTEEVVEETKEATETTEEVVEGTKEATETTEEVVEETKETSELEEAQARAEEFENKYLRVHAEMQNIQRRAKEERQQLQKYRSQDLAKAILPSLDNIERALAVEGLTDDVKKGLEMIQESLINGLKEEGIEEIAADGEFDHNFHMAIQTMPADDEHPADTIAQVFQKGYKLHDRILRPAMVVVYKEN |
| 3251 | sp|Q72IK6|GRPE\_THET2 | MEERNHENTLEKDLEAVGQEAQALEERLKAAEEELKGLKDKYLRLLADFDNYRKRMEEELKAREREGVLKALRALLPVLDDLDRALEFAEASPESIRQGVRAIRDGFFRILAGLGVEEVPGEGEAFDPRYHEAVGLLPGEPGKVAKVFQRGFRMGEALVRPARVAVGEEKQEEADLE |
| 3252 | sp|C1CJ05|GRPE\_STRZP | MAQDIKNEEVEEVQEEEVVETAEETTPEKSELDLANERADEFENKYLRAHAEMQNIQRRANEERQNLQRYRSQDLAKAILPSLDNLERALAVEGLTDDVKKGLGMVQESLIHALKEEGIEEIAADGEFDHNYHMAIQTLPADDEHPVDTIAQVFQKGYKLHDRILRPAMVVVYN |
| 3253 | sp|Q97S73|GRPE\_STRPN | MAQDIKNEEVEEVQEEEVVKTAEETTPEKSELDLANERADEFENKYLRAHAEMQNIQRRANEERQNLQRYRSQDLAKAILPSLDNLERALAVEGLTDDVKKGLGMVQESLIHALKEEGIEEIAADGEFDHNYHMAIQTLPADDEHPVDTIAQVFQKGYKLHDRILRPAMVVVYN |
| 3254 | sp|Q6G674|LDH2\_STAAS | MKTFGKKVVLIGDGSVGSSYAFAMVTQGVADEFVIIDIAKDKVKADVQDLNHGTVHSPSPVDVKAGEYEDCKDADLVVITAGAPQKPGETRLQLVEKNTKIMKSIVKSVMDSGFDGYFLIAANPVDILTRFVKEYTGLPAERVIGSGTVLDSARLQYLISQELGVAPSSVDASIIGEHGDTELAVWSQANVAGISVYDTLKEQTGSEAKAEEIYVNTRDAAYEIIQAKGSTYYGIALALMRISKAILNNENNVLNVSIQLDGQYGGHKGVYLGVPTLVNQHGAVKIYEMPLSAEEQALFDKSVKTLEDTFDSIKYLLED |
| 3255 | sp|P0C7U6|LDH2\_STAAT | MKTFGKKVVLIGDGSVGSSYAFAMVTQGVADEFVIIDIAKDKVKADVQDLNHGTVHSPSPVDVKAGEYEDCKDADLVVITAGAPQKPGETRLQLVEKNTKIMKSIVKSVMDSGFDGYFLIAANPVDILTRFVKEYTGLPAERVIGSGTVLDSARLQYLISQELGVAPSSVDASIIGEHGDTELAVWSQANVAGISVYDTLKEQTGSEAKAEEIYVNTRDAAYEIIQAKGSTYYGIALALMRISKAILNNENNVLNVSIQLDGQYGGHKGVYLGVPTLVNQHGAVKIYEMPLSAEEQALFDKSVKTLEDTFDSIKYLLED |
| 3256 | sp|Q9M2G7|LPPD\_ARATH | MKKILERSMEGSGTWQGLVLVGIVTWICASSYLKFTHKFRSLLQPWVARQVVGGVPLILRIQKCQNGVLDAFFSGLSCVVSVPFYTAFLPLLFWSGHGRLARQMTLLIAFCDYLGNCIKDVVSAPRPSCPPVRRITATKDEEDNAMEYGLPSSHTLNTVCLSGYLLHYVLSSLEYESVSIQYYGFALACLLVALIAFGRVYLGMHSVVDIVSGLAIGVLILGLWLTVNEKLDDFITSKQNVSSFWTALSFLLLFAYPTPEHPTPSYEYHTAFNGVTLGIVTGVQQTYSQFHHEAAPRIFSPELPISSYLGRVMVGIPTILLVKFCSKSLAKWTLPMVSNALGIPIRSSMYIPKLKGYASGKKTDEPKNSVGYLQKLCEFLSHDSFDIDTGIRFFQYAGLAWSVVDLVPSLFSYVNL |
| 3257 | sp|O22210|MYBC1\_ARATH | MREDNPNWFLRWEEELPSPEELIPISQTLITPHLALAFQIGSPNHHLGSKRTTAIYHQKLQSSTTPTTPTPTPPPMMMNSDFGGGDSTDLGSGSIGGEPARTLKRPRLVWTPQLHKRFVDAVGHLGIKNAVPKTIMQLMSVEGLTRENVASHLQKYRLYLRRMQGGNGNGITGGHVIVSDSATDRLFASSPVPAHFLSPDYLMPPLEHSYMGKHVITQQNQVVRNLRYEDSEYGHGSMKMLKLFPAGN |
| 3258 | sp|Q19202|APY1\_CAEEL | MTQESNSNFFNFLLFGFVTAIAFYSGTQFNKSSEQEEHINHANLYSVKKFDDGAKEYSIMLITDLDHDSKDGKKWKSLVSRGFLKVSADHKHADIHFDKDSEYYVDTNIAAGGRAMELSDLAVFNGKLYSIDDRTGLIYQISDKKALPWVLLNDGPGNVVKGFKGEWITVKDTELIVGGLGKEWTTTDGVYVNDHPMWVKHVSAHGAVHHENWKDVYIRVRRAAGIEYPGYMIHEAVQWSAIHRKWFFLPRRMSNEKYSEAEDENRGTNVLVIGNEELTDFEVVRVGSENNKSRGFAAFQFVPNTHHQLIVAIKSEEKDGKPVASYASVFDIHGNVILDEYLLHGPYKYEGIAFA |
| 3259 | sp|Q84W92|ANM13\_ARATH | MEVSSVKKLEQLEYSLESVTDLSSSSVSSSSPAVATFSYVDGVTELRFLQSDSTHCFNFDLASAQLFKLGPVHFICVSDGSSSSEEKSFSKGVNIKFKNEKDSKDFCESFEEWRNDSVVQGSSLQNGTVSANKSKFDNKIEASSAKMYFHYYGQLLHQQNMLQDYVRTGTYYAAVMENHSDFAGRVVVDVGAGSGILSMFAAQAGAKHVYAVEASEMAEYARKLIAGNPLFADRITVIKGKVEDIELPEKADILISEPMGTLLVNERMLESYVIARDRFMTPKGKMFPTVGRIHMAPFSDEFLFIEMANKAMFWQQQNYYGVDLTPLYGSAHQGYFSQPVVDAFDPRLLVASPMFHMIDFTQMKEEDFYEIDIPLKFTASMCTRMHGLACWFDVLFDGSTVQRWLTTAPGAPTTHWYQIRCVLSQPIYVMAGQEITGRLHLIAHSAQSYTIDLTLSAKMWGPGASQGGILQSSTCKFDLKEPYYRMSQPQAYPVAQEPPLQPQPELSTQQDIQTPNDELEEELLQQLPQNPSAQL |
| 3260 | sp|Q9ZU70|ATB21\_ARATH | MNNQNVDDHNLLLISQLYPNVYTPLVPQQGGEAKPTRRRKRKSKSVVVAEEGENEGNGWFRKRKLSDEQVRMLEISFEDDHKLESERKDRLASELGLDPRQVAVWFQNRRARWKNKRVEDEYTKLKNAYETTVVEKCRLDSEVIHLKEQLYEAEREIQRLAKRVEGTLSNSPISSSVTIEANHTTPFFGDYDIGFDGEADENLLYSPDYIDGLDWMSQFM |
| 3261 | sp|A2BZB9|GRPE\_PROM1 | MNSDVSSSEHELSQDGSSQNNPSENFVSSSNSNESVNQVELSDNPEVEHQVKNDSVDTAKEQSSTSCESNIKGSDTEARLQQLEKEHETLNSQYMRIAADFDNFRKRQTRDQDDLKIQLTCTTLSEILPIVDNFERARQQLNPEGEEAQALHRSYQGLYKQLVEVLKNLGVAPMRVVDQAFDPSLHEAVMREPSDEKAEDIVIEELQRGYHLNGRVLRHALVKVSMGPGPKAVNEEIPDQSASNQELSESVDGPTKDEN |
| 3262 | sp|Q607A4|GRPE\_METCA | MSEEELTNGPGPEPQPEPLEVESAPLEAAPAGEPDKALLEAQQQASENWDRFVRAQAEMENLRRRLEKDIQNAHKYALEKFAKELLPVMDSLELGIAASTGDAPDVAKLREGAELTLKQFKSVFEKFGIAVVDPLGEKFNPEQHQAMAMEPAGEAEPNTVVKVFQKGYLLNDRLLRPALVVVAQA |
| 3263 | sp|Q9SHH8|GSTUQ\_ARATH | MANDQVILLDYWPSMFGMRTKMALAEKGVKYEYKETDPWVKTPLLIEMNPIHKKIPVLIHNGKPICESLIQLEYIDEVWSDASPILPSDPYQKSRARFWAEFIDKKFYDPSWKVWATMGEEHAAVKKELLEHFKTLETELGDKPYYGGEVFGYLDIALMGYYSWFKAMEKFGEFSIETEFPILTTWTKRCLERESVVKALADSDRIIEYVYVLRKKFGAA |
| 3264 | sp|A8GW24|GRPE\_RICB8 | MTDNNIENKEEEIINDIAEEVENTEIADLKAQIEELKDKLIRASAEIDNTRKRLEKARDEARDYAITTFAKELLNVSDNLSRALEHKPLDASVEVTNIIAGVQMTKDELDKVFHKHHIEEIKPEIGSTFDYNLHNAISQIEHPDHEPNSVINIMQVGYRIKDRLLRPATVQVTKKT |
| 3265 | sp|Q9L516|GRPE\_PSYS1 | MSEQNTNHESPEQNVAHDNIEHSDSILEETMKEFDPQHNSGEEMTIENEIDLDTFKARIAELEGEVKEAKEGTARANAEAYDAQKRMEQEADKSKKFALQKFARELLEIVDNLERAIENADANDPVAEGVQLTHKALLAVLHKNGIEVVDPQGEKFNADLHEAVDIDAEAEADTVGTVLQKGYSLNGRLLRPAMVRVGQ |
| 3266 | sp|Q145F3|GRPE\_PARXL | MENTQENPTSQNPKPAEETARQAAEAAAPQQEAAANAATDSPASAEQAALAEAQAKIAELQESFLRAKAETENVRRRAQEDVAKAHKFAIESFAEHLLPVIDSLEAAVAHSSDDPAKVREGVELTLRQLTGALEKGRVVALNPVGEKFDPHRHQAISMVPADQEPNTVVAVLQKGFVIADRVLRPALVTVAAPK |
| 3267 | sp|A0KZB0|GRPE\_SHESA | MSNESIKAEQDLIQEGVESEVSTEEASLIDELTQANFRIEELEQLLADALAKVEEQKDSVIRAAAEVDNIRRRAAMDVEKANKFALEKFANELLPVLDNMERALQGTNPQDETTKALFEGVELTQKSFLTAVAKFGVKPIDPQGQAFNPDQHQAIGMQPSAEYPANTVMLVMQKGYELNSRLLRPAMVMVSQGGPSQESASINIEA |
| 3268 | sp|Q8XW36|GRPE\_RALSO | MKHTSEPTSQPDTQAAESAQSSAAAAGQAASAYSSQAQRASADAQAIAGDEAAVAEATIEPDTAELRRQLEAADEKARQNYENWARAVAEGENIRRRAQDDVARAHKFAIEGFAEYLLPVMDSLQAALADASGDVAKLREGVELTLKQLNAAFEKGRVTELNPVGEKFDPHRHQAISMVPADQEANTVVNVLQRGYTLADRVLRPALVTVAAPK |
| 3269 | sp|Q8XEY8|GRPE\_SALTI | MSSKEQKTPEGQAPEEIIMDQHEEVEAVEPNDSAEQVDPRDEKIANLEVQLAEAQTRERDTVLRIKAEMENLRRRTEQDIEKAHKFALEKFVNELLPVIDSLDRALEVADKANPDMAAMVEGIELTLKSMLDVVRKFGVEVIAETNVPLDPNVHQAIAMVESEEVPAGNVLGIMQKGYTLNGRTIRAAMVTVAKAK |
| 3270 | sp|B7UX51|HCHA\_PSEA8 | MSNERDTSRTPTPDHAEHNAFFPSPYSLSQYTSAKTDFDGADYPTPYKGGKKVLMIGTDERYILMQNGSMFSTGNHPVEMLLPMYHLDKAGFEFDVATLSGNPVKLEMWAMPGEDEAVKSIYAKYLPKLKAPQKLADLLEQAVADDSPYAAVFVPGGHGVLAGIPHSREVKRLLNAFLAKDRYIITLCHGPACLLAPAVEEKPEDYPFKDYEICVFPDALDTGANLEIGYMPGPLPWLVGENLQKLGVKILNKGITGQVHRDRKLLTGDSPLASNNLGKLAAKTLLEAFAR |
| 3271 | sp|A4XPY7|HFQ\_PSEMY | MSKGHSLQDPYLNTLRKERVPVSIYLVNGIKLQGQIESFDQFVILLKNTVSQMVYKHAISTVVPSRPVRLPSAGDSEQADAEPGNA |
| 3272 | sp|Q9I4K0|HCHA\_PSEAE | MSNERDTSRTPTPDPAEHNAFFPSPYSLSQYTSAKTDFDGADYPTPYKGGKKVLMIGTDERYILMQNASMFSTGNHPVEMLLPMYHLDKAGFEFDVATLSGNPVKLEMWAMPGEDEAVKSIYAKYLPKLKAPRKLADLLEQAVADDSPYAAVFVPGGHGVLAGIPHSREVKRLLNAFLAKDRYIITLCHGPACLLAPAVEEKPEDYPFKGYEICVFPDALDTGANLEIGYMPGPLPWLVGENLQKLGVKILNKGITGQVHRDRKLLTGDSPLASNNLGKLAAKTLLEAFAR |
| 3273 | sp|A4VQP0|HFQ\_PSEU5 | MSKGHSLQDPYLNTLRKERVPVSIYLVNGIKLQGQIESFDQFVILLKNTVSQMVYKHAISTVVPGRPVRLPTAGDAEQSESGND |
| 3274 | sp|B8CIX6|HFQ\_SHEPW | MAKGQSLQDPFLNALRRERVPVSIYLVNGIKLQGQVESFDQFVILLKNTVSQMVYKHAISTVVPSRPFNVSNHQATNAQAGYNAQHDETDEK |
| 3275 | sp|Q3J803|HFQ\_NITOC | MSRGQSLQDPFLNALRKERVPVSIYLVNGIKLQGQIESFDQFVVLLKNSVSQMVYKHAISTVVPARNVKLSSNEGENIHPIGGTRSADAD |
| 3276 | sp|Q8P9X7|HFQ\_XANCP | MAKGQSLQDPFLNALRRERVPVSVYLVNGIKLQGTIESFDQFVVLLRNTVSQMVYKHAISTVVPARNVRVGPGGGYVQSNENNQAEDDDVEQ |
| 3277 | sp|B7JIE0|HFQ\_BACC0 | MKQSINIQDQFLNQLRKENTFVTLYLLNGFQLRGLIKGFDNFTVLLETEGKQQLIYKHAISTFVPQKNVSIELE |
| 3278 | sp|Q9Y241|HIG1A\_HUMAN | MSTDTGVSLPSYEEDQGSKLIRKAKEAPFVPVGIAGFAAIVAYGLYKLKSRGNTKMSIHLIHMRVAAQGFVVGAMTVGMGYSMYREFWAKPKP |
| 3279 | sp|Q7N1I3|HICB1\_PHOLL | MIKTRLARGGFSHRFIIKNMRYPVTLEPVEEGGYFVSFPDIPEALTQGDTREEALEMALDALITAFEFYFEDNEKIPLPGPVGQDYVDVPLSVASKVLMLNAFLDSKLTQIELANRMGVKKQEVTRIFDLRHSTKIDTVGKVASAIGHQLTLSIE |
| 3280 | sp|Q2A3T5|HFQ\_FRATH | MSRISSLQDPFLNALRKEKVSVSVYLVNGIKLQGQVEAFDQFCIVLRNTVNQMVYKHAISTIVPAKSVRMVYSSFNPYHQNSNDEQDENVDDIHSDDLEIQENEGNIHE |
| 3281 | sp|A6TR76|HFQ\_ALKMQ | MKNNINLQDVFLNQVRKENIQITIYLVNGFQLKGFVKGFDNYTIVLDSDGKQQLIYKHAISTILPITPINFMQSSKKQGE |
| 3282 | sp|Q1PDN3|HFA6A\_ARATH | MDYNLPIPLEGLKETPPTAFLTKTYNIVEDSSTNNIVSWSRDNNSFIVWEPETFALICLPRCFKHNNFSSFVRQLNTYGFKKIDTERWEFANEHFLKGERHLLKNIKRRKTSSQTQTQSLEGEIHELRRDRMALEVELVRLRRKQESVKTYLHLMEEKLKVTEVKQEMMMNFLLKKIKKPSFLQSLRKRNLQGIKNREQKQEVISSHGVEDNGKFVKAEPEEYGDDIDDQCGGVFDYGDELHIASMEHQGQGEDEIEMDSEGIWKGFVLSEEEMCDLVEHFI |
| 3283 | sp|P02513|HSP17\_CAEEL | MLMLRSPFSDSNVLDHFLDEITGSVQFPYWRNADHNSFNFSDNIGEIVNDESKFSVQLDVSHFKPEDLKIELDGRELKIEGIQEKKSEHGYSKRSFSKMILLPEDVDLTSVKSAISNEGKLQIEAPKKTNSSRSIPINFVAKH |
| 3284 | sp|P27396|HSP11\_DAUCA | MSIIPSFFGGRRSNVFDPFSLDVWDPFKDFPLVTSSASEFGKETAAFVNTHIDWKETPQAHVFKADLPGLKKEEVKVELEEGKVLQISGERNKEKEEKNDKWHRVERSSGKFLRRFRLPENAKVDEVKAAMANGVVTVTVPKVEIKKPEVKAIDISG |
| 3285 | sp|Q53595|HSP18\_STRAL | MLMRTDPFREFDRITRELTAPGTWSRPTAMPMDACREGDTYVVSFDLPGVDPEAIEIDIERNMLTVKAERGPAGNAEHVRMEVAERPLGVFSRQLVLADTLDTEQVRADYDAGVLTLRIPIAERAKRRRVKVGQGESHRQITG |
| 3286 | sp|Q942D6|HFC1B\_ORYSJ | MMGGECKVHQLQAAGDGGPGAVAPFVAKTFHMVSDPSTNAVVRWGGAGNTFLVLDPAAFSDFLLPSYFKHRNFASFVRQLNTYGFRKVDPDRWEFAHESFLRGQAQLLPRIVRKKKKGGAAPGCRELCEEGEEVRGTIEAVQRLREEQRGMEEELQAMDQRLRAAESRPGQMMAFLAKLADEPGVVLRAMLAKKEELAAAGNNGSDPCKRRRIGADTGRGGVATGGDAAEMAQSRGTVPFPFSVLGQVFY |
| 3287 | sp|Q9KE51|HTPG\_BACHD | MERKEFKAESKRLLEMMVNSIYSQKEIFLRELISNASDAIDKIYYRALSDDSITFNKDDYFIKVTANKEDRTLTVSDTGIGMTKEELESNLGTIAKSGSLAFKTENESKDGHDIIGQFGVGFYSAFMVADKVTVTTKALGEESGYQWESTGADGYTILPIAKESVGTEIRLKLKENSEDESYDEFLEEYRLTSIIKKYSDFIRYPIKMDVTKRELKEGTEDEYEDVIEEQTINSMVPIWRKNKNELKDEDYTNFYHEKRYGFDQPLKHIHISVDGAVRYNAILFIPENIPFDYYTKEFEKGLELYSNGVLIMEKCPDLLPDYYSFVKGMVDSEDLSLNISREMLQHDRQLKLIAKNIKNKITSHLKTLLKDEREKFEQFYRSFGRQLKYGVYSDFGANKEDLQDLLLFYSSTEKKMVTLDEYVSRMKEDQPYIYYATGESYARIEKLPQTEMVADKGYEILYFTEDVDEFAIKMLASYKEKEFRSVSSGDLGFEDDEQKDTAADTDEQKELFEHMKTILDGKVKDVRASKRLKSHPVCLTAEGEVSIEMEKVLRAMPDNQNVQAEKVLEINVNHDVFDVLKASFESDKDKVDLYTKLLYNQALLIEGLPVEDPVAFSNDICKVMA |
| 3288 | sp|Q5PB86|HTPG\_ANAMM | MGDVEELKFSAEVGKVLSLVVHSLYTNKDIFLREVISNASDACDKLRYLFCSDQSLMEAGEELRIVISVDRDRRELTVRDNGIGMSRKELIDNLGTIASSGTQRFLEEFKGGKAQGCDLIGKFGVGFYSVFMVATDVVVESCKAGEKVGHRWQSSGDGVFSVSTIEGDVSRGTKVILTLREDEFDFLDKFRIEHIVTTYSDHVGYPIYLIASDGTEEKLNSGVAIWTKPKDEISESEHMEFFRSISHIGSNPWMVIHNKNEGTIEYINLLYVPSVKPFDLFHPDRRCSVKLYVNRVFITEDNVQVIPQYMRFLRGVIDSSDLPLNISRETLQNNMVIEKIKASVTRRVLTSLREKADSDPVSYKTFWENFGPVLKEGLCEAMDTESRESILSVCRFYSSNSKEGELISLGDYISRMKPGQEHIFYLSGNDLESAMRSPQIEGMVSNGIEVVLLVDPVDDFWTSVVLEYKGVPFKSVTRVDESDLEKFTEGDDQQSTKKKKEKKDTDDAQQKENVEAFIDYMKKVLGDSVSDIKVSRKLTTSLVCLAVPEHALDIRMERFLREQKQLSYKGSRILELNIKHPVLSGLLREYKDNGESELLENMVHVLFDQACIIEGEEVNSAVDFANRMNQVLARLFKK |
| 3289 | sp|A1W3A1|HTPG\_ACISJ | MSKHTHSFQAEVAQLLHLVTHSLYSNKEIFLRELVSNASDACDKLRFEALNNAALYEDAPNLEVRVSFDKEARTLTITDNGIGMSEQEAIDHLGTIAKSGTRDFMNRLSGDQKADAQLIGQFGVGFYSGFIVADRITVESRRAGLPASEGVRWASGGAGDFEVEAIERAARGTSVILHLREDAEEFLNAWKIKQVIGKYSDHISLPILMEKEEWKESEKEGEPGQMVKTGEWETVNKASALWTRPKKDITDEQYQDFYKSISHDFENPLTWSHNRVEGNTEYTQLLYIPAKAPFDLWNRDKKAGVKLYVKRVFIMDDAESLMPSYLRFVKGVIDSADLPLNVSRELLQESRDVRLIRDGSVKRVLSMLEDLAKHDKHEAAAEGADGVQDVVSAEDKAKEGKYTQFYAEFGAVLKEGLGEDFANRERLAKLLRFASTTSDTPSVSFADYKARMKEGQEAIYYITADTLAAAKNSPQLEVFKKKGIEVLLMTDRVDEWALNYLQDFDGTPLQSVAKGAVDLGKLQDEAEKKAAEEAAEAFKPMLAKLKEALKDKAEDVRVTTRLVDSPACLVVQDGGMSTQLARLLKQAGQSAPDAKPVLEVNPEHALVKKLDGSVHFHDLAHILFDQALLAEGGLPEDPAAYVKRVNALLA |
| 3290 | sp|B9JG71|HSLU\_AGRRK | MTTFSPREIVSELDRYIVGQHEAKRAVAIALRNRWRRQQLEPDLRDEVMPKNILMIGPTGVGKTEISRRLAKLAGAPFIKVEATKFTEVGYVGRDVEQIIRDLVEVGIGLVREKKRAEVQAKAHMSAEERVLDALVGATASPATRDSFRKKLRDGQLDDKEIDIEVADTGSGMPGGFEIPGMPGANIGVLNLSEMFGKAMGGRTKKVRTTVKDSYKELVRDESDKLIDNEAIQREAVRSAEDDGIVFLDEIDKIAARDGGMGAGVSREGVQRDLLPLVEGTTVSTKYGPVKTDHILFIASGAFHVSKPSDLLPELQGRLPIRVELRPLTKEDFRRILTEPEASLIRQYKALMETEDLKLDFTDDAIDALADVAVHLNSTVENIGARRLQTVMERVLDEISYNASDRAGVSVTIDAAYVREHVGDLANNTDLSRFIL |
| 3291 | sp|Q8XNC2|HTPG\_CLOPE | MEKREFKAESKRLLDIVINSIYTNREIFLRELISNASDAIDKVYYKTLGDSSLTFNKDDYYIKIKPNKEERTLTISDKGIGMTEKELDENLGVIAKSGSLQFKKENEIKDGFDIIGQFGVGFYSGFLVADKITVITKAFGADKAYKWESDGVDGYTISEAEKDSFGTDIILHLKANDEDENYDEFLEEYKLKSLIKKYSDFIRYPIKLDVTKSRVKEGTENEHEEYVEEETVNSMVPLWRRNKNELTDDDYNNFYVEKRFGFDKPLRHMHISVDGMISYNSILYIPENIPYDYYTKEYEKGLELYSNGVLIMEKCSELLPDYFGFVKGIVDSQDLSLNISREMLQHDRQLSRIAKNIKTKIKNELESMMKNDRESYEKFYKSFGRQLKYGVYDDFGMNKDELKDLLMFYSSKEKKMVSLAEYVERMAEDQKYIYYAVGESNERIEKMPQTEMVLDKGYEILYFTEDVDEFAIKMLMNYKEKEFKSVSSGDLGIESEEENKKENEENKGIFEAMKEALGEKISAVKASSRLKNYPVCLSSEGEVSIEMEKILSAMPNNQGVKAQKVLEVNTNHEVFNSLKDALENDKDKFNLYTKLLYNQALLVEGLSIENPVDFTNDICKLMK |
| 3292 | sp|Q24VT7|HTPG\_DESHY | MSQIETKEFQTEIRQLLDIVINSLYTDREIFLRELISNAADASEKVRYMQLSGQNVKDQELPLEIRITPDENAKTLTIADAGIGMTKEDLIENIGTIAHSGSKAFVQRLAEAGDKKDVNLIGQFGVGFYSAFMVADKVSLTSRSYEPDAQGYRWESDGRGSYSISEEMDLPRGTSITLHLKEDAHSFAQADTVKRIIKQYSSFVPYPVYVGEEKINTVQALWTKNKNEISEEEYKEFYKYIANAYDEPLMRMHFSSDAPINLNALLFVPKSNMEKFGFGRMEAGVNLYCKKVLIQEKAKDIVPEWLRFARGVVDSEELPLNISRETMQDSALIAKLNKVVTSRFLKFLDDQAKNEPEIFKEFWNEFSIFLKEGAANDFTHRQEILKLLRFESSKTGEGELISLGDYVGRMKEGQEAIYFINGPTRQIIEEGPYLEVFKNKDYEVIYTYDGIDDYVFDMIREYDGKRLLSADHGDLNLADEDGASAEEKLLSEEELKEFNDWLKEVLGEKVTEVRESKRLVDSPAIILSHYGTHSMQRMMQLMNRDLQDVPAGILEINPKHVLIQRLNDLRKQEDSFAPLAAEQLFANAQIAAGIIVDPRSMVSRLNEILEKALR |
| 3293 | sp|P11141|HSP6\_CAEEL | MLSARSFLSSARTIARSSLMSARSLSDKPKGHVIGIDLGTTNSCVSIMEGKTPKVIENAEGVRTTPSTVAFTADGERLVGAPAKRQAVTNSANTLFATKRLIGRRYEDPEVQKDLKVVPYKIVKASNGDAWVEAQGKVYSPSQVGAFVLMKMKETAESYLGTTVNNAVVTVPAYFNDSQRQATKDAGQISGLNVLRVINEPTAAALAYGLDKDAGDKIIAVYDLGGGTFDVSILEIQKGVFEVKSTNGDTFLGGEDFDHALVHHLVGEFKKEQGVDLTKDPQAMQRLREAAEKAKCELSSTTQTDINLPYITMDQSGPKHLNLKLTRAKFEQIVGDLIKRTIEPCRKALHDAEVKSSQIADVLLVGGMSRMPKVQATVQEIFGKVPSKAVNPDEAVAMGAAIQGAVLAGDVTDVLLLDVTPLSLGIETLGGIMTKLITRNTTIPTKKSQVFSTAADGQTQVQIKVFQGEREMATSNKLLGQFSLVGIPPAPRGVPQVEVTFDIDANGIVNVSARDRGTGKEQQIVIQSSGGLSKDQIENMIKEAEKNAAEDAKRKELVEVINQAEGIIHDTEAKMTEFADQLPKDECEALRTKIADTKKILDNKDNETPEAIKEACNTLQQQSLKLFEAAYKNMAAKNSGGDAQEAKTAEEPKKEQN |
| 3294 | sp|P42555|HTPG\_BORBU | MKKQFDTEVNDLLYLIIHSLYSHKEIFLRELISNASDAIDKLKFLSLTNEKFKNIALEPKIEISFDDKSILIKDNGIGMDEQDLTNHLGVIAKSGTKEFINNLKQDEKKSASLIGQFGVGFYSAFIVSEKVEVTSKKALESDAYIWSSDGKTGYEIEKAKKEESGTEIKLYLNKEGLEYANKWKIQEIIKKYSNHINYPIYIKYSEPIMKDGKQEGIEEKEEKLNETTALWTKNKSEIKAEEYNEFYKNTTFDYENPLMHIHTKAEGNLEYTNLFYVPSKAPYDLYYPNTKPGVKLFINRIFITDSEGSLLPNYLRFIKGIIDCQDLPLNVSREILQQNKILSKIKSSSVKKILSELEKLSKKNPEKFSEFSKEFGRCIKEGVYSDFENREKLISLIRFKSSSVDGFVSFKEYKERMNESQKSIYYITGGKENILKENPIVAAYKEKGFEILIMDDELDEAILNLIPEYEGLKLKAINKNETSNELKDENFKKIEEEFKDTLTKVKEILKDHIKEVNLSATLIKEPSAIIIDSNDPTYQMQKIMLSMGQEVKEIKPILELNPNNKIVQNLKNLEPEKLEKISILLFEEAMLTSGMPSKNPGKFINIINEFIEKDFL |
| 3295 | sp|Q05945|HSP70\_HYDOL | VLLKMKEIADAYLGKKVTDVVITVPAYFNDSQRQATKDAGVIAGLNVLRIINEPNAAAIAYGLDKKVEKEKNVLIFDLGGGTFDVSILAIEDGIFEVKSTAGDTHLGGEDF |
| 3296 | sp|P40918|HSP70\_DAVTA | MAPAIGIDLGTTYSCVGIYRDDRIEIIANDQGNRTTPSFVAFTDTERLIGDSAKNQVAINPHNTVFDAKRLIGRKFQDAEVQADMKHFPFKVIEKAGKPVTQVEFKGETKDFTPEEISSMILTKMRETAESYLGGTVNNAVITVPAYFNDSQRQATKDAGLIAGLNVLRIINEPTAAAIAYGLDKKQEGEKNVLIFDLGGGTFDVSFLTIEEGIFEVKSTAGDTHLGGEDFDNRLVNHFSNEFKRKHKKDLSDNARALRRLRTACERAKRTLSSSAQTSIEIDSLFEGIDFFTSNTRARFEEVGQDLFRGNMEPGERTLRDDKIDKSSVHEIVLGGGSTRIPKVQKLVSDFFNGKEPCKSINPDEAVAYGAAVQAAILSGDTSSKSTKEILLLDVAPLSLGIETAGGVMTALIKRNTTIPTKKSETFSTFSDNQPGVLIQVFEGERARTKDINLMGKFELSGIRPAPRGVPQIEVTFDLDANGIMNVSALEKGTGKTNKIVITNDKGRLSKEEIERMLADAEKYKEEDEAEAGRIQAKNGLESYAYSLKNTVSDPKVEEKLSAEDKETLTGAIDKTVAWIDENQTATKEEYEAEQKQLESVANPVMMKIYGAEGGAPGGMPGQGAGAPPPGAGDDGPTVEEVD |
| 3297 | sp|A4YJU7|HSLU\_BRASO | MTDFSPREIVSELDRFIVGQADAKRAVSIALRNRWRRLQLDTGLREEVLPKNILMIGPTGVGKTEIARRLAKLAGAPFLKVEATKFTEVGYVGRDVEQIIRDLVEVAIHQVRERKRKDVAARAQLAAEERVLDALVGANSSAATRDSFRRKLRAGELNDKEIEIETQSSGGGMPMFEIPGMPGAQMGAISIGDIFGKLGGRTKTRRVTVEASHDILIAEESDKLLDSDQLVQEAINVVENNGIVFLDEIDKICVRENRHGGDVSREGVQRDLLPLIEGTTVSTKHGAVKTDHILFIASGAFHIAKPSDLLPELQGRLPIRVELQALTRDDMRRILTEPEASLIKQYVALMKTEGVTLDITDDAIDALADVAVAVNSTVENIGARRLQTVMERVLDDISFTASDRTGETMRVDAAYVQQHIGDLAKNADLSRFIL |
| 3298 | sp|Q3JUM5|HTPG\_BURP1 | MTQQTMSFQAEVKQLLHLMIHSLYSNKEIFLRELVSNASDAADKLRFEALENNALYESDPNLRIRLSFDKAARTITIDDNGIGMSRDEAIANLGTIARSGTKEFFSKLSGDQQKDAALIGQFGVGFYSGFIVADRITVETRRAGLPASEGVRWESAGEGDFQVDTIERAARGTTITLHLREGEDELLSSYRLKSIVQKYSDHVALPILMKKEEWDQEKGEMVEKDEDETINQASALWTRAKSEVTDEQYKQFYQHVAHDHQDPLAWTHNRVEGRSEYTQLLFVPSHAPFDLWNRDYRGGLKLYVKRVFIMDDAEQLLPQYLRFIKGVVDSSDLPLNVSREILQESRDVKAIREGVTKRALSMLEELANAEDDAGKEKYKTFWSAFGQVLKEGVGEDHANRERVAKLLRFASTHGDTDAQDVALADYVARMKPEQTKIYYVTADTWQAAKNSPHLEVFRKKGVEVLLLTDRVDEWMLSFLHEFDGKPLASVARGDLDLGALNDDEKKAQEETGEAMKPVVDKMKETLGEKVKDVRVTFRLTDSPSCLVADDNDMSGYLQRMLKAAGQSAPSFQPILEINPEHPLVKALKADGADFGDWCHLLFDQALLAEGGALEDPASFVKRTNALLLSRAA |
| 3299 | sp|Q943Q3|HS166\_ORYSJ | MSLVRSGNVLDPMSVDFWADADPFGAVRSLAERCPVLTNVRVDWKETPTAHVFTADLPGVRKDQAKVEVEDGGVLVISGERAREEDVDGKNDERWHHVERSSGKFQRRFRLPRGARVDQVSASMDNGVLTVTVPKEETKKPQLKAIPISG |
| 3300 | sp|B5EQZ5|HTPG\_ACIF5 | MAASKETMQFQTEINQLLQLMIHSLYSNKEIFLRELISNASDACDKLRFEALADPALLTGDSELKVEVDFDPEAGTITVRDNGIGMNRDEVIANIGTIAKSGTREFFERLSGDQTKDAKLIGQFGVGFYSAFIVADRVSLNTRRAGMEAEHGVRWESDGTGTYTLETLDLPARGTEIVLHLREEERQDLLSAWRLRSIINKYSDHIPLSIRMRKIGEGGKPGDEWETVNKASALWQRSKSEISDDEYKEFYRYVSHDYGDPLTWSHNHVEGRLEYTSLLFIPAKAPFDLWDHNHPHGIKLYVQRVFIMDDAEQLLPRYLRFVRGVIDSSDLPLNVSREILQGNRVIDQMRSGSVKRILGLLEEMAEKEPEKYQTFWNEFGRVLKEGPGEDYSNREQIARLLRFASTHTDTDTQNVSLADYLARMAEGQDKIYYITADSFLAAKNSPQLELLRKKGIEVLLLSDRVDEWLTSHLPEFEGKALTSVAKGALDLGAIETEEERKSQEETEKDAEGLVERIKNALGERVETVRVSHRLTSSPACIVLGERDMALYMQQLLKQAGHEISSTKPVLEINPTHPMLARIEGEKDDTRFAEWSALLLDQAILAEGGQLEDPAGFVARINQLMLALAG |
| 3301 | sp|B5ENS6|HSLU\_ACIF5 | MSEMTPREIVQELDKYIIGQSEAKRAVAIALRNRWRRGQVPPPLHQEITPKNILMIGPTGVGKTEIARRLAQLANAPFIKVEATKFTEVGYVGKDVESIIRDLTETAVDMIRNERQVALRQRAEELAEERILDILIPGPRDSSVPRSDEGTRQKFRKMLREGKLDAQEIEIEVSAPKGGVEIMAPAGMEEMTNQLREMFSNMAPGKTSTRRVTVSEAQRLLTDDEAAKLVNEEEVRALALERVQSGGIVFIDEIDKVAVRSGTQQGSDVSREGVQRDLLPLVEGSNVSTRYGVVKTDHILFIASGAFHLSKPSDLIPELQGRLPIRVELEALSAADLVRILQEPENALVRQYGALLASDGLALHFTQDGVQRIAEIAQQVNERVENIGARRLHTVMERLLEEVAFVAPDGSTTALEVDAAYVDSRLKDLAQDEDLSRYIL |
| 3302 | sp|Q05549|HRQ1\_YEAST | MEEGPIKKKLKSAGQGSGKTDAFRNFEQFFFRLNTLYTFLICRKHVVPTFKTLCGPIETALKRTVTKEDLAMVMALMPRECVFKYIDENQIYTETKIFDFNNGGFQQKENDIFELKDVDDQNQTQKSTQLLIFEFIDGTMQRSWSASDRFSQIKIPTYTTEEMKKMISKREALFKSRLREFILEKEKANLDPFSELTNLAQKYIPRERDYEDPIEAMMKAKQESNEMSIPNYSNNSVITTIPQMIEKLKSTEFYASQIKHCFTIPSRTAKYKGLCFELAPEVYQGMEHENFYSHQADAINSLHQGENVIITTSTSSGKSLIYQLAAIDLLLKDPESTFMYIFPTKALAQDQKRAFKVILSKIPELKNAVVDTYDGDTEPEERAYIRKNARVIFTNPDMIHTSILPNHANWRHFLYHLKLVVVDELHIYKGLFGSHVALVMRRLLRLCHCFYENSGLQFISCSATLKSPVQHMKDMFGINEVTLIHEDGSPTGAKHLVVWNPPILPQHERKRENFIRESAKILVQLILNNVRTIAFCYVRRVCELLMKEVRNIFIETGREDLVTEVMSYRGGYSASDRRKIEREMFHGNLKAVISTNALELGIDIGGLDAVLMCGFPLSMANFHQQSGRAGRRNNDSLTLVVASDSPVDQHYVAHPESLLEVNNFESYQDLVLDFNNILILEGHIQCAAFELPINFERDKQYFTESHLRKICVERLHHNQDGYHASNRFLPWPSKCVSLRGGEEDQFAVVDITNGRNIIIEEIEASRTSFTLYDGGIFIHQGYPYLVKEFNPDERYAKVQRVDVDWVTNQRDFTDVDPQEIELIRSLRNSDVPVYFGKIKTTIIVFGFFKVDKYKRIIDAIETHNPPVIINSKGLWIDMPKYALEICQKKQLNVAGAIHGAQHAIMGMLPRFIVAGVDEIQTECKAPEKEFAERQTKRKRPARLIFYDSKGGKYGSGLCVKAFEHIDDIIESSLRRIEECPCSDGCPDCVAASFCKENSLVLSKPGAQVVLHCILGHSEDSFIDLIKDGPEPNMPEIKVETVIPVSEHVNFSDDFKIIDVRRATKDDTHTNEIIKKEI |
| 3303 | sp|Q1BUR7|HTPG\_BURCA | MAHETMSFQAEVKQLLHLMIHSLYSNKEIFLRELVSNASDAADKLRFEGLADNALYENDPNLRIRIGYDKAARTITIDDNGIGMSRDEAIANLGTIARSGTKEFFTKLSGDQQKDAALIGQFGVGFYSGFIVADKITVETRRAGLPANEAVRWESAGEGDFTIDAIERAQRGTTITLHLREGEDDLLSSHRLKSIIQKYSDHIALPILMRKEEWDQEKGEMVLKDEDETVNQASALWTRSKSDVTDEQYTQFYQHIAHDHQDPLTWTHNRVEGRSEYTQLLFVPAHAPFDLWNRDYRGGLKLYVKRVFIMDDAEQLLPQYLRFVKGVVDSADLPLNVSREILQESRDVKAIREGVTKRALSMLEELANAEDDAGKEKYKTFWGAFGQVLKEGLGEDHANRERIAKLLRFASTHGDTDAQDVSLADYVSRMKPEQSKIYYVTADTWQAAKNSPHLEVFRKKGVEVLLLTDRVDEWMLSFLHEFDGKPLASVARGDLDLGELNDEEKKAQEQAGEAIKPVVEKMKEALGDKVKEVRVTFRLTDSPSCLVADDNDMSGYLQRMLKAAGQNAPAMQPILEINPEHALVKQLNADSADFGDWCHLLFDQALLAEGGMLDDPASFVKRTNALLLSRAA |
| 3304 | sp|A8H2R4|HTPG\_SHEPA | MSQQETHGFQTEVKQLLHLMIHSLYSNKEIFLRELVSNAADAADKLRYEALTNDNLYEGDGELRVRISADKEKGTVTIEDNGIGMTRDGVIEHLGTIAKSGTADFFKKLSGDESKDSQLIGQFGVGFYSSFIVADRVTVRTRAAGHSADEAVLWESAGEGDFTVETISKQTRGTEITLHLRDDEKEFADDYRLRSIITKYSDHISVPVEMFEAGTPAVEATEDTEAVAATEGSWKPMNKATALWTRNKSDVSDEEYQEFYKHISHDFTDPLLWSHNRVEGKQEYTSLLYIPAKAPWDMWNRDRKHGLKLFVQRVFVMDDAEQFMPSYLRFVQGLIDSNDLPLNVSREILQDNKVTTALRTAVTKRVLGMLEKLAKNDAEKYQSFWTEFGQVLKEGPAEDFANKERIAGLLRFASTHTGEATPNVSLADYIERMQEGQSKIYYIVADSHEAAANSPHLELLRKKGIEVLLMSERIDEWLINHLTEFDGKKLHSVTRGDLELGELEDDDEKEAQEKLQTESEGLVKRVKDSLGDKVSEVKVTTRLTDTPACVVAGEGEMSTQMIKLMQAAGQDVPEPKPTFELNPEHPLVARLNDEQDEQQFAQWSELLLQQALLSEKGSLADPSAFIKLMNQMLLASVK |
| 3305 | sp|P41827|HSP74\_ANOAL | MPSAIGIDLGTTYSCVGVFQHGKVEIIANDQGNRTTPSYVAFSDTERLIGDAAKNQVAMNPTNTVFDAKRLIGRKFDDPKIQADMKHWPFTVVNDGGKPKIRVEFKGERKTFAPEEISSMVLTKMKETAEAYLGQSVKNAVITVPAYFNDSQRQATKDAGAIAGLNVMRIINEPTAAALAYGLDKNLKGERNVLIFDLGGGTFDVSILTIDEGSLFEVRSTAGDTHLGGEDFDNRMVGHFVEEFKRKHKKDLSKNARALRRLRTACERAKRTLSSSTEATIEIDALMDGIDYYTKISRARFEELCSDLFRSTLQPVEKALSDAKMDKSSIHDIVLVGGSTRIPKVQSLLQNFFAGKSLNLSINPDEAVAYGAAVQAAILSGDKDDKIQDVLLVDVAPLSLGIETAGGVMTKLIERNSRIPCKQTQIFSTYADNQPGVSIQVFEGERAMTKDNNLLGQFDLSGIPPAPRGVPQIEVTFDLDANGILNVAAKEKSTGKEKNITIKNDKGRLSQADIDRMVSEAEKFREEDEKQRERISARNQLEAYCFNLKQSLDGEGASKLSDADRKTVQDRCEETLRWIDGNTMADKEEFEHKMQELTKACSPIMTKLHQQAAGGPSPSSCAQQAGGFGGRTGPTVEEVD |
| 3306 | sp|Q943E7|HS16C\_ORYSJ | MSLVRRSNVFDPFADFWDPFDGVFRSLVPATSDRDTAAFANARVDWKETPESHVFKADLPGVKKEEVKVEVEEGNVLVISGQRSKEKEDKNDKWHRVERSSGQFMRRFRLPENAKVDQVKASMENGVLTVTVPKAEVKKPEVKAIEISG |
| 3307 | sp|Q86KF5|HSPG9\_DICDI | MATIFDILNTLNNNNFKNCKRQCPINKSNKTIIDIIPSMDVTMTNDKLIIETELAGISKDDIEIDIKDSILTIQGEKKKNLNKQQQQLVSEKSSTSPSTLDSKEDEPSIEEFEDDIKPKSATSTTTTTTKENKDDENKTKSSDKKFISERSFGNFKRYLDLTKVLYQLDLNSINTQFENGLLTITINKKLHYSNTIKININ |
| 3308 | sp|P27541|HSP70\_BRUMA | MSKNAIGIDLGTTYSCVGVFMHGKVEIIANDQGNRTTPSYVAFTDTERLIGDAAKNQVAMNPHNTVFDANRLIGRKFDDGSVQSDMKHWPFKVVNAGGGKPKVQVEYKGETKTFTPEEISSMVLVKMKETAEAFLGHAVKDAVITVPAYFNDSQRQATKDSGAIAGLNVLRIINEPTAAAIAYGLDKKGHGERNVLIFDLGGGTFDVSILTIEDGIFEVKSTAGDTHLGEDFDNRMVNHFVAEFKRNDKKDLASNPRALRRLRTACERAKRTLSSSSQASIEIDSLFEGIDFYTNITRARFEELCADLFRSTMDPVEKALRDAKMDKAQVHDIVLVGGSTRIPKVQKLLSDFFSGKELNKSINPDEAVAYGAAVQAAILSGDKSEAVQDLLLLDVAPLSLGIETAGGVMTALIKRNTTIPTKTSETFTTYSDNQPGVLIQVYEGERALTKDNNLLGKFELSGIPPAPRGVPQIEVTFDIDANGILNVSAQDKSTGKQNKITITNDKGRLSKDEIERMVQEAEKYKADDEAQKDRIAAKNALESYAFNMKQTIEDEKLKDKISEEDKKKIQEKCDETVRWLDGNQTAEKDEFEHRQKELESVCNPIITKLYQSAGGMPGGMPGGMPGGAPGAGSTGGGPTIEEVD |
| 3309 | sp|A9KH31|HSLU\_COXBN | MTMTPREIVAELDKFIIGQNDAKRAVAIALRNRWRRMQLGEELRREIFPKNILMIGPTGVGKTEIARRLSDLAGAPFLKIEATKFTEVGYVGRDVESIIRDLVDVAVKMTREKAIRQVKSLAEEAAEERVLDALIPPARGGFQGEPTAEEKPTEKKESATRQLFRKKLRNGGLDDKEIEVEVSAHPSFEIMGPPGMEEMVSQLQGIMSSMSSRRSKSRRLKVKDALRILGEEEAAKLVDEDQIKSTALASVEQNGIVFIDEIDKIVKRDGAVGADVSREGVQRDLLPLVEGSTVFTKYGMVKTDHILFIASGAFHIAKPSDLVPELQGRFPIRVELKALTADDFVRILTEPKASLTEQYTELLKTENFGLSFTKDGIKRLAEIAYQVNDRSENIGARRLHTIMERLLEEVSFEATDKQGESITIDADYVNKQLKKLAEDEDLSRYIL |
| 3310 | sp|Q14J90|HTPG\_FRAT1 | MSEKKYTFETEVDKLLHLVIHSLYSNREIFLRELVSNSSDAIEKLRYESISNAALNEDDTDYAIRIDFDKDAKTITVSDNGIGMTEEEVIENLGTIAKSGTKKFLESLTGDKSKDNELIGQFGVGFYSSFIVADKVTVRTRKAGQDKSQATKWVSDAQNGFTVETITKEKRGTEVILHIKKEHLDLLEYHVLKGLVNKYSDCINTSIQMKKVEYDKDGKQTVKDEYETVNNTKAIWLRSKDEVTDEEYQEFYKYISHDFADALMWIHNKVEGNLEYNSLLYIPQNKPFDFWNRDKDYGLSLYVRRVFIMENKELLPPYLRFVKGVIDSADLPLNVSREILQHNKVIDKIKKAITTKILSELKKLASKDKEKYQKFWDSFGQVLKEGVSDDYSNKEKIAGLLRFATTQSGDSKQTVSLADYISRMKEGQDTIYYITSDSYKAAANNPQLEAFKKKGIEVILMTDRIDEWMMSTLTEFDGKHMKSIIKGDIDLDRFETPENKEKFEKEAKDFEKVLKEIKEVLKDKVEDVRLSKRLTDSPSCVVVNDYGMSLHMQKMMEEAGQSFMPGMGMKPILELNAEHNLVQKLKNEADTEIFADLSELLLLQAMFVEGAKIEDPMAFVKLVNKYIR |
| 3311 | sp|P05456|HSP70\_TRYCR | MTYEGAIGIDLGTTYSCVGVWQNERVEIIANDQGNRTTPSYVAFTDSERLIGDAAKNQVAMNPRNTVFDAKRLIGRKFSDPVVQSDMKHWPFKVITKGDDKPVIQVQFRGETKTFNPEEVSSMVLSKMKEIAESYLGKQVKKAVVTVPAYFNDSQRQATKDAGTIAGLEVLRIINEPTAAAIAYGLDKVEDGKERNVLIFDLGGGTFDVTLLTIDGGIFEVKATNGDTHLGGEDFDNRLVAHFTDEFKRKNKGKDLSTNLRALRRLRTACERAKRTLSSAAQATIEIDALFDNVDFQATITRARFEELCGELFRGTLQPVERVLQDAKMDKRAVHDVVLVGGSTRIPKVMQLVSDFFRGKELKKSIQPDEAVAYGAAVQAFILTGGKSKQTEGLLLLDVTPLTLGIETAGGVMTSLIKRNTTIPTKKSQIFSTYADNQPGVHIQVFEGERAMTKDCHLLGTFELSGIPPPPRGVPQIEVTFDLDANGILNVSAEEKGTGKRNQIVLTNDKGRLSRAEIERMVREAAKYEAEDKDQVRQIDAKNGLENYAFSMKNAVNDPNVAGKIEEADKKTITSAVEEALEWLNNNQEASKEEYEHRQKELENLCTPIMTNMYQGMAGAGMPGGMPGGMPGGMPGGMPGGMPGGMPGGMPGGMPGGMPGGMPGGANPSSSSGPEVEEVD |
| 3312 | sp|A7H4F2|HSLU\_CAMJD | MNLTPKEIVKFLDDYVIGQKKAKKIIAIALRNRYRRMQLSPELQDDIVPKNILMIGSTGVGKTEIARRLAKMMGFPFIKIEASKYTEVGFVGRDVESMVRDLTNAALNLVKNEQREKNKDKINEFIENKILEKLLPPLPKGISDEKQEEYKNSLEKMRTKLRNGDLDESTIEIEISQNMFDTNPNLPPEMGAMQDIVKVIGVGSKKVKKEMKIKDAKNALKNEAGEKILDQESIKSEALKRSENEGIIFIDEIDKIAVSSGNSNRQDPSKEGVQRDLLPIVEGSNVQTKIGTLKTDHILFIAAGAFHLSKPSDLIPELQGRFPLRVELDSLDDKAFYEILTRPKNSLLKQYSQLLKTENLELDFDNEAIKEIAKIASRANEEMQDIGARRLHTVIEKLLEDLSFEADEYAGKKFVVDKKMVEEKLGDIIENKDLARYIL |
| 3313 | sp|Q0TKG8|HTPG\_ECOL5 | MKGQETRGFQSEVKQLLHLMIHSLYSNKEIFLRELISNASDAADKLRFRALSNPDLYEGDGELRVRVSFDKDKRTLTISDNGVGMTRDEVIDHLGTIAKSGTKSFLESLGSDQAKDSQLIGQFGVGFYSAFIVADKVTVRTRAAGEKPENGVFWESAGEGEYTVADITKEDRGTEITLHLREGEDEFLDDWRVRSIISKYSDHIALPVEIEKREEKDGETVISWEKINKAQALWTRNKSEITDEEYKEFYKHIAHDFNDPLTWSHNRVEGKQEYTSLLYIPSQAPWDMWNRDHKHGLKLYVQRVFIMDDAEQFMPNYLRFVRGLIDSSDLPLNVSREILQDSTVTRNLRNALTKRVLQMLEKLAKDDAEKYQTFWQQFGLVLKEGPAEDFANQEAIAKLLRFASTHTDSSAQTVSLEDYVSRMKEGQEKIYYITADSYAAAKSSPHLELLRKKGIEVLLLSDRIDEWMMNYLTEFDGKPFQSVSKVDESLEKLADEVDESAKEAEKALTPFIDRVKALLGERVKDVRLTHRLTDTPAIVSTDADEMSTQMAKLFAAAGQKVPEVKYIFELNPDHVLVKRAADTEDEAKFSEWVELLLDQALLAERGTLEDPNLFIRRMNQLLVS |
| 3314 | sp|A9L569|HTPG\_SHEB9 | MSQQETHGFQTEVKQLLHLMIHSLYSNKEIFLRELVSNAADAADKLRYLALTNDALYEGDGELRVRISADKEKGTVTIEDNGVGMTRDGVIEHLGTIAKSGTADFFKNLSGESSKDSQLIGQFGVGFYSAFIVAKKVTVRTRAAGHKADEAVLWESEGEGNFTVDTITKASRGTEITLHLRDEEKEFADDWRLRSIITKYSDHISVPVEMWQEGTPESDGADGEKIPATEGQWKVMNKATALWMRSKADISDEEYQEFYKHISHDYTDALLWSHNRVEGKQEYTNLLYIPAKAPWDMWNRDRKHGLKLFVQRVFIMDDAEQFMPSYLRFVQGLIDSNDLPLNVSREILQDNHVTKAMRTGITKRVLGMLEKLAKDDAEKYQQFWAEFGQVLKEGPAEDFANRERIAGLLRFASTHTGSAAPTVSLDDYISRMKEGQTKIYYIVADSHEAAANSPHLELLRKKGIEVLLMSERIDEWLINHLTEYKEKQLHSVTRGDLELGELEDASEKEAQEKLEQESVALVERIKAALGSTVADVKVTSRLTDTPACVVAGEGEMSTQMIKLMQAAGQPVPEVKPTFEINPAHPLVSRLNDLQDEAAFADWSNLLLQQAQLSEKGSLADPSAFIKLMNQMLLANMK |
| 3315 | sp|Q57S77|HTPG\_SALCH | MKGQETRGFQSEVKQLLHLMIHSLYSNKEIFLRELISNASDAADKLRFRALSNPDLYEGDGELRVRVSFDKDKRTLTIADNGVGMNRDEVIDHLGTIAKSGTKSFLESMGSDQAKDSQLIGQFGVGFYSAFIVADKVTVRTRAAGDKPENGVFWESAGEGEYTVADITKNDRGTEITLHLREGEDEFLDDWRVRSIISKYSDHIALPVEIEKREEKDGETVISWEKINKAQALWTRNKSEIKDDEYNEFYKHIAHDFTDPLTWSHNRVEGKQEYTSLLYIPSQAPWDLWNRDHKHGLKLYVQRVFIMDDAEQFMPNYLRFVRGLIDSNDLPLNVSREILQDSTVTRNLRSALTKRVLQMLEKLAKDDAEKYQTFWKQFGLVLKEGPAEDHANQEAIAKLLRFASTHTDSSAQTVSLEDYVSRMKEGQEKIYYITADSYAAAKNSPHLELLRKKGIEVLLLSDRIDEWMMNYLTEFDGKAFQSVAKADESIEKLADEVDENAKEAEKVLEPFVERVKTLLGDRVKDVRLTHRLTDTPAIVTTDADEMSTQMAKLFAAAGQSVPEVKYIFELNPDHVLVKRTADTKDEAQFKEWVELLLDQALFAERGTLEDPNQFIRRMNQLLVS |
| 3316 | sp|P02827|HSP70\_XENLA | MATKGVAVGIDLGTTYSCVGVFQHGKVEIIANDQGNRTTPSYVAFTDTERLIGDAAKNQVAMNPQNTVFDAKRLIGRKFNDPVVQCDLKHWPFQVVSDEGKPKVKVEYKGEEKSFFPEEISSMVLTKMKETAEAYLGHPVTNAVITVPAYFNDSQRQATKDAGVLAGLNILRIINEPTAAAIAYGLDKGARGEQNVLIFDLGGGTFDVSILTIDDGIFEVKATAGDTHLGGEDFDNRMVNHFVEEFKRKHKKDIGQNKRALRRLRTACDRAKRTLSSSSQASIEIDSLFEGIDFYTAITRARFEELCSDLFRGTLEPVEKALRDAKLDKSQIHEIVLVGGSTRIPKVQKLLQDFFNGRELNKSINPDEAVAYGAAVQAAILMGDKSENVQDLLLLDVAPLSLGLETAGGVMTVLIKRNTTIPTKQTQSFTTYSDNQPGVLIQVFEGERAMTKDNNLLGKFELSGIPPAPRGVPQIEVTFDIDANGILNVSAVEKSSGKQNKITITNDKGRLSKEDIEKMVQEAEKYKADDDAQRERVDAKNALESYAFNLKSMVEDENVKGKISDEDKRTISEKCTQVISWLENNQLAEKEEYAFQQKDLEKVCQPIITKLYQGGVPGGVPGGMPGSSCGAQARQGGNSGPTIEEVD |
| 3317 | sp|A4J5Z5|HSLU\_DESRM | MEALTPRQTVRELDKYIVGQEKAKKAVAVALRNRYRRSKLKEDLIDEVVPKNILMIGPTGVGKTEIARRLAKLVKAPFVKIEATKFTEVGYVGRDVESMVRDLVETSIRMLKQEKVEEVEERAKRLADERIIELLAPYPNRPTQTKNPFEMLFGGVQDTQQEDKSWEQQNSRIKFERETLREKMSRCELEKDYLEIEVEDQSTPMLEVFSNSGVEEMGVNMQDVLGSIFPRKKRKRKVTVEEARKILTQQEAQKLIDMDELTAQAVKRAEDHGIIFLDEIDKIATREGTTGSADVSRGGVQRDILPIVEGSTVMTKYGPVKTDHILFIAAGAFHIAKPSDLIPELQGRFPIRVELESLSRSDFEQILTEPQNSLIKQYTELLGTEGLKIEFSKNSLVEIADIAYTVNEQNENIGARRLHTILEKLLEDVSFEAPELNGQSLTIDSDYVREKLKDVVTNRDLSRYIL |
| 3318 | sp|Q01877|HSP71\_PUCGR | MTKAIGIDLGTTYSCVGVWQNDRVEIIANDQGNRTTPSYVAFTDTERLIGDSAKNQVAMNPHNTVFDAKRLIGRKFADAEVQSDIKHFPFTVFDKGGKPYIRVQYRGEDKEFSPEEISSMILTKMKEVAESYLGGTVTSAVVTVPAYFNDSQRQATKDAGTISGLNVLRIINEPTAAAIAYGLDKKTVGERNVLIFDLGGGTFDVSLLTIEEGIFEVKATAGDTHLGGEDFDNRLVNHFVQEFKRKHKKDLSSNPRALRRLRTACERAKRTLSSAAQTTIEIDSLFEGVDFYTSLTRARFEELCQDLFRSTLEPVEKVLRDAKIDKAAVHEIVLVGGSTRIPRIVKLVSDFFNGKEPNKSINPDEAVAYGAAVQAAILTGDTSEKTQDLLLLDVSPLSLGIETAGGVMTPLIKRNTTVPTKKSEIFSTYSDNQPGVLIQVYEGERARTKDNNLLGKFELAGIPPAPRGVPQIEVTFDIDANGILNVSASDKTTGKSNRITITNDKGRLSKEEIERMVNEAEKYKAEDEEATARITSRNALESYAYNLRNSLTDEKLADKFDAADKKKLEDAVNSTISWLDNSQEASKEEYEEHQKELEAVANPIMQKLYAGAGGAPGGAPGGFPGGAPGGFPGGAPAGEDGPSVEEVD |
| 3319 | sp|P20147|HSP90\_PLAFP | KDFDGKKLKCCTKEGLDIHHSEEAKKDFETLKAEYEGLCKVIKDVLHKKVEKVVVGQRITDSPCVLVTSEFGWSANMERIMKAQALRDNSMTSYMLSKKIMEINARHPIISALKQKADADKSDKTVKYLIWLLFDTSLLTSGFALEEPTTFSKRIHRMIKLGLSIDEEENNDIDLPPLEETVDATDSKMEEVD |
| 3320 | sp|A8AIB1|HSPQ\_CITK8 | MIASKFGIGQQVRHSLLGYLGVVVDIDPEYSLDEPSPDELAVNDELRAAPWYHVVMEDDEGQPVHTYLAEAQLSSETQDEHPEQPSMDELARTIRKQLQAPRLRN |
| 3321 | sp|A5U4Y2|HTPG\_MYCTA | MNAHVEQLEFQAEARQLLDLMVHSVYSNKDAFLRELISNASDALDKLRIEALRNKDLEVDTSDLHIEIDADKAARTLTVRDNGIGMAREEVVDLIGTLAKSGTAELRAQLREAKNAAASEELIGQFGIGFYSSFMVADKVQLLTRKAGESAATRWESSGEGTYTIESVEDAPQGTSVTLHLKPEDAEDDLHDYTSEWKIRNLVKKYSDFIAWPIRMDVERRTPASQEEGGEGGEETVTIETETLNSMKALWARPKEEVSEQEYKEFYKHVAHAWDDPLEIIAMKAEGTFEYQALLFIPSHAPFDLFDRDAHVGIQLYVKRVFIMGDCDQLMPEYLRFVKGVVDAQDMSLNVSREILQQDRQIKAIRRRLTKKVLSTIKDVQSSRPEDYRTFWTQFGRVLKEGLLSDIDNRETLLGISSFVSTYSEEEPTTLAEYVERMKDGQQQIFYATGETRQQLLKSPHLEAFKAKGYEVLLLTDPVDEVWVGMVPEFDGKPLQSVAKGEVDLSSEEDTSEAEREERQKEFADLLTWLQETLSDHVKEVRLSTRLTESPACLITDAFGMTPALARIYRASGQEVPVGKRILELNPSHPLVTGLRQAHQDRADDAEKSLAETAELLYGTALLAEGGALEDPARFAELLAERLARTL |
| 3322 | sp|Q6SJQ8|HSPB8\_MACMU | MADGQMPFSCHYPSRLRRDPSGLSLSSRLLDDGFGMDPFPDDLTASWPDWALPRLSSAWPGTLRSGMVPRGPTATARFGVPAEGRTPPPFPGEPWKVCVNVHSFKPEELMVKIKDGYVEVSGKHEEKQQEGGIVSKNFTKKIQLPAEVDPVTVFASLSPEGLLIIEAPQVPPYSTFGESSFNNELPQDSQEVTCT |
| 3323 | sp|B5QZG9|HSPQ\_SALEP | MIASKFGIGQQVRHSLLGYLGVVVDIDPEYSLDEPSPDELAVNDELRAAPWYHVVMEDDDGQPVHTYLAEAQLRSEMRDEHPEQPSMDELARTIRKQLQAPRLRN |
| 3324 | sp|Q5S1U1|HSPB1\_PIG | MTERRVPFSLLRSPSWDPFRDWYPAHSRLFDQAFGLPRLPEEWSQWLSHSGWPGYVRPLPPPAIEGPAAVAAPAYSRLLSRQLSSGVSEIQQTADRWRVSLDVNHFAPEELTVKTKDGVVEITGKHEERQDEHGFISRCFTRKYTLPPGVDPTQVSSSLSPEGTLSVEAPLPKPATQSAEITIPVTFEARAQLGGTEAGKSEKPGTK |
| 3325 | sp|Q2RYB8|HTPG\_RHORT | MSEETLSFQAEVSKLLDIVVHSLYSDRKIFLRELISNASDACDKLRYEGLTQPALLEGDGAFRIRLSIDAEAGTLTIADNGIGMNRHELIENLGTIARSGTQAFAEALKAKSQAASGDVSLIGQFGVGFYSAFMVADKVEVVTRRAGEAQGWRWSSDGKGSFSVSEVEGAGRGAAITLHLREDARDFLDEHRLREIVKTYSDHIAIPVDYAGKEGEPERLNEASALWTRPRDQITDEQYAEFYHHVAHGFETPWHTLHYRAEGKLEYTALLFVPGQQPFDLFTQDRKPRVKLYVNRVFITDDCEELLPSYLRFVRGVVDSSDLPLNVSREMLQDDPRLRKIKGGLTKRLIDDLAKRARDDESAYLTFWENFGAVLKEGIYEDFERKEDLVALARFRTTASDTPVSLETVIGRMKEGQSALYYITGDDATALARSPQVEGFVARGVEVLLLTDPIDEFWVSAVPKVGDTALKAVAQGSADLERLALIDGKQPPDDAEHAPAETAKMDALIAAMKAALGTAVADVRVSARLTDSPVCLVAKEGAMSLHLQKLLRQANQGSELSGDRVLEINPRHALVKTLAERAATGGSVDEAALLLMDQARILEGEAPADAIAFARRLTEVMGKGLI |
| 3326 | sp|P12077|HSP74\_LEIMA | MSSTKHRIDLGTTYSCVGVFKNEQVDIIANDQGNRTTPSYVAFTETERLIGDARRTRWHEPPGNTVFDEAHDRPQVRRPDLQSDMKHWPFKVIVKDGKPVISVEYQNQTKTFSRGDLGYGAAENEGDGGGYLGTTVKDAVITVPAYFNDSQRQATKDAGSIAGLNVLRIINEPTAAAIAYGMDRKGDKGEKNVLIFDLGGGTFDVTLLTIESGVFEVKATAGDTHLGG |
| 3327 | sp|C6DKX0|HSPQ\_PECCP | MIICKFGIGQQIRHKLLGFPGVVIDIDPEYSLETPTWEEISGNDTPRSEPWYHVVMEDDEGQPIHTYLAEAQLMKEELSEHEHPSLNELAEVIQRRAPQLRH |
| 3328 | sp|Q9S7C0|HSP7O\_ARATH | MSVVGFDFGNENCLVAVARQRGIDVVLNDESNRETPAIVCFGDKQRFIGTAGAASTMMNPKNSISQIKRLIGRQFSDPELQRDIKSLPFSVTEGPDGYPLIHANYLGEKRAFTPTQVMGMMLSNLKGIAEKNLNTAVVDCCIGIPVYFTDLQRRAVLDAATIAGLHPLRLIHETTATALAYGIYKTDLPESDQLNVAFIDIGHASMQVCIAGFKKGQLKILSHAFDRSLGGRDFDEVLFNHFAAKFKDEYKIDVSQNAKASLRLRATCEKLKKVLSANPLAPLNIECLMDEKDVRGVIKREEFEEISIPILERVKRPLEKALSDAGLTVEDVHMVEVIGSGSRVPAMIKILTEFFGKEPRRTMNASECVSRGCALQCAILSPTFKVREFQVHESFPFSISLAWKGAASEAQNGGAENQQSTIVFPKGNPIPSVKALTFYRSGTFSVDVQYSDVNDLQAPPKISTYTIGPFQSSKGERAKLKVKVRLNLHGIVSVESATLLEEEEVEVPVTKEHSEETTKMDSDKASAEAAPASGDCDVNMQDAKDTSDATGTDNGVPESAEKPVQMETDSKAEAPKKKVKKTNVPLSELVYGALKTVEVEKAVEKEFEMALQDRVMEETKDRKNAVESYVYDMRNKLSDKYQEYITDSEREAFLANLQEVEDWLYEDGEDETKGVYVAKLEELKKVGDPVEVRYKESLERGSVIDQLGYCINSYREAAMSTDPKFDHIELAEKQKVLNECVEAEAWLRGKQQQQDTLPKYATPALLSADVKSKAEALDKFCRPIMTKPKPVAKAEAPQAKGGEQADEGKSEPEQPASAEPMETENPAEGST |
| 3329 | sp|Q7N5Z3|HSPQ\_PHOLL | MIIASKFGIGQQVRHKLLGYLGVIVDIDVEYSLEQPQEDDIASNATLRSAPWYHVVMEDDNGQPVHTYLAEAQLAYETSDEHPEQPSLDELAESIRHQLLAPRLRN |
| 3330 | sp|P31170|HS25P\_ARATH | MASTLSFAASALCSPLAPSPSVSSKSATPFSVSFPRKIPSRIRAQDQRENSIDVVQQGQQKGNQGSSVEKRPQQRLTMDVSPFGLLDPLSPMRTMRQMLDTMDRMFEDTMPVSGRNRGGSGVSEIRAPWDIKEEEHEIKMRFDMPGLSKEDVKISVEDNVLVIKGEQKKEDSDDSWSGRSVSSYGTRLQLPDNCEKDKIKAELKNGVLFITIPKTKVERKVIDVQIQ |
| 3331 | sp|P36181|HSP80\_SOLLC | MSDVETFAFQAEINQLLSLIINTFYSNKEIFLRELISNSSDALDKIRFESLTDKSKLDGQPELFIHIIPDKANNTLTIIDSGIGMTKADLVNNLGTIARSGTKEFMEALAAGADVSMIGQFGVGFYSAYLVAEKVVVTTKHNDDEQYVWESQAGGSFTVTRDTSGENLGRGTKMVLYLKEDQLEYLEERRLKDLIKKHSEFISYPISLWVEKTIEKEISDDEEEEEKKDEEGKVEEVDEEKEKEEKKKKKVKEVSNEWSLVNKQKPIWMRKPEEITKEEYAAFYKSLTNDWEEHLAVKHFSVEGQLEFKAVLFVPKRAPFDLFDTKKKPNNIKLYVRRVFIMDNCDELIPEYLSFVKGIVDSEDLPLNISRETLQQNKILKVIRKNLVKKCVELFFEIAENKEDYNKFYEAFSKNLKLGIHEDSQNRAKFAELLRYHSTKSGDEMTSLKDYVTRMKEGQNDIYYITGESKKAVENSPFLEKLKKKGYEVLYMVDAIDEYSIGQLKEFEGKKLVSATKEGLKLDESEDEKKKQEELKEKFEGLCKVMKDVLGDKVEKVIVSDRVVDSPCCLVTGEYGWTANMERIMKAQALRDSSMAGYMSSKKTMEINPENSIMDELRKRADADKNDKSVKDLVLLLFETALLTSGFSLEEPNTFGNRIHRMLKLGLSIDEESGDADADMPALEDPEADAEGSKMEEVD |
| 3332 | sp|O69242|HSPE\_BRADU | MRTYDLSPFWRSTIGFDRLLNLVNDTVDNGDTYPPYDIERTSEDQYRISLALVGFTPDDVAITAERSTLTVEGRKTDEDERDYLYRGISVRPFRRVFNLADYVQVKDATFEDGLLKIALTREMPEALKPRQIAIDVAGNDHQRSDRTQAA |
| 3333 | sp|Q76LV2|HS90A\_BOVIN | MPEETQAQDQPMEEEEVETFAFQAEIAQLMSLIINTFYSNKEIFLRELISNSSDALDKIRYESLTDPSKLDSGKELHINLIPNKQDRTLTIVDTGIGMTKADLINNLGTIAKSGTKAFMEALQAGADISMIGQFGVGFYSAYLVAEKVTVITKHNDDEQYAWESSAGGSFTVRTDTGEPMGRGTKVILHLKEDQTEYLEERRIKEIVKKHSQFIGYPITLFVEKERDKEVSDDEAEEKEDKEEEKEKEEKESDDKPEIEDVGSDEEEEEKKDGDKKKKKKIKEKYIDQEELNKTKPIWTRNPDDITNEEYGEFYKSLTNDWEDHLAVKHFSVEGQLEFRALLFVPRRAPFDLFENRKKKNNIKLYVRRVFIMDNCEELIPEYLNFIRGVVDSEDLPLNISREMLQQSKILKVIRKNLVKKCLELFTELAEDKENYKKFYEQFSKNIKLGIHEDSQNRKKLSELLRYYTSASGDEMVSLKDYCTRMKENQKHIYYITGETKDQVANSAFVERLRKHGLEVIYMIEPIDEYCVQQLKEFEGKTLVSVTKEGLELPEDEEEKKKQEEKKTKFENLCKIMKDILEKKVEKVVVSNRLVTSPCCIVTSTYGWTANMERIMKAQALRDNSTMGYMAAKKHLEINPDHSIIETLRQKAEADKNDKSVKDLVILLYETALLSSGFSLEDPQTHANRIYRMIKLGLGIDEDDPTADDSSAAVTEEMPPLEGDDDTSRMEEVD |
| 3334 | sp|Q875V0|HSP7F\_NAUCC | MSTPFGLDLGNNNSVLAVARNRGIDIVVNEVSNRSTPSLVGFGQKNRFLGEAGKTKETSNIKNTVGNLKRIVGLDYTHPDFSTESQFFSSKLVELDDKKVGTQVRLAGESKTFSATQLAAMFIGKVKNTVQQETKSNINDICIAVPAWYSEEQRYSIADAAKVAGLNPVRIVNDVTAAAVSYGVFKTDLPEGDAKPRIVAFVDIGHSSYTCSIMAFKKGELKVLGTAYDKHFGGRDFDRAITEHFADEFKSKYKIDIRTNAKAYNRILTAAEKLKKVLSANTQAPFSAESVMDDVDVSSSMTREELEELVKPLLTRVTEPVTKALAQANLTVEDIDFVEIIGGTTRIPTLKNSISEAFNKPLSTTLNQDEAIAKGAAFICAIHSPTLRVRPFKFEDIHPYSVSYSWDKQVEEEESMEVFPAGSTFPSTKLITLQRTGDFQMSAYYTTPEQLPKGTKADIAKWEITGLQVPEGAESVPVKVVLRCDPSGLHTIEEAYTVEDIKVQEVVPLPEDAPEDAEPEFREVTKTVKKDALTIVAHTFALEGKPLNDLIEKENAMFAQDKLVAETEDRKNALEEYIYTLRGKLEEEYAPFASEAEKTKLTGMLAKAEEWLYDEGYDSIKAKYIAKYEELASLGNMIRGRYLAKEEEKRQALRSNQEASKMADLSAKLAAQRKAEAEAKENAKE |
| 3335 | sp|P42930|HSPB1\_RAT | MTERRVPFSLLRSPSWEPFRDWYPAHSRLFDQAFGVPRFPDEWSQWFSSAGWPGYVRPLPAATAEGPAAVTLARPAFSRALNRQLSSGVSEIRQTADRWRVSLDVNHFAPEELTVKTKEGVVEITGKHEERQDEHGYISRCFTRKYTLPPGVDPTLVSSSLSPEGTLTVEAPLPKAVTQSAEITIPVTFEARAQIGGPESEQSGAK |
| 3336 | sp|Q90473|HSP7C\_DANRE | MSKGPAVGIDLGTTYSCVGVFQHGKVEIIANDQGNRTTPSYVAFTDTERLIGDAAKNQVAMNPTNTVLDANRLNGRQFDDGVVQSDMKHWPFNVINDNSRPKVQVEYKGESKSFYPEEISSMVLTKMKEIAEAYLGKTVSNAVITVPAYSNDSQRQATKDAGTISGLNVLVIINEPTAAAIAYGLDKKVGAERNVLIFDLGGGSFDVSILTIEDGIFEVKSTAGDTHLGGEDFDNRMVNHFITEFKRKHKKDISDNKRAVRRLRTACERAKRTLSSSTQASIEIDSLYEGIDFYTSITRARFEELNADLFRGTLDPVEKALRDAKMDKAQIHDIVLVGGSTRIPKIQKLLQDYFNGKELNKSINPDEAVAYGAAVQAAILSGDKSENVQDLLLLDVTPLSLGIETAGGVMTVLIKRNTTIPTKQTQTFTTYSDNQPGVLIQVYEGERAMTKDNNLLGKFELTGIPPAPRGVPQIEVTFDIDANGIMNVSAVDKSTGKENKITITNDKGRLSKEDIERMVQEAEKYKAEDDVQRDKVSAKNGLESYAFNMKSTVEDEKLKGKISDEDKQKILDKCNEVIGWLDKNQTAEREEFEHQQKELEKVCNPIITKLYQSAGGMPGGMPEGMPGGFPGAGAAPGGGSSGPTIEEVD |
| 3337 | sp|A2YWQ1|HSP81\_ORYSI | MASETETFAFQAEINQLLSLIINTFYSNKEIFLRELISNSSDALDKIRFESLTDKSKLDAQPELFIHIVPDKASNTLSIIDSGIGMTKSDLVNNLGTIARSGTKEFMEALAAGADVSMIGQFGVGFYSAYLVAERVVVTTKHNDDEQYVWESQAGGSFTVTRDTSGEQLGRGTKITLYLKDDQLEYLEERRLKDLIKKHSEFISYPISLWTEKTTEKEISDDEDEEEKKDAEEGKVEDVDEEKEEKEKKKKKIKEVSHEWSLVNKQKPIWMRKPEEITKEEYAAFYKSLTNDWEEHLAVKHFSVEGQLEFKAVLFVPKRAPFDLFDTRKKLNNIKLYVRRVFIMDNCEELIPEWLSFVKGIVDSEDLPLNISREMLQQNKILKVIRKNLVKKCVELFFEIAENKEDYNKFYEAFSKNLKLGIHEDSTNRNKIAELLRYHSTKSGDELTSLKDYVTRMKEGQNDIYYITGESKKAVENSPFLEKLKKKGYEVLYMVDAIDEYAVGQLKEFEGKKLVSATKEGLKLDESEDEKKRKEELKEKFEGLCKVIKEVLGDKVEKVVVSDRVVDSPCCLVTGEYGWTANMERIMKAQALRDSSMAGYMSSKKTMEINPENAIMEELRKRADADKNDKSVKDLVLLLFETALLTSGFSLDDPNTFGSRIHRMLKLGLSIDEDETAEADTDMPPLEDDAGESKMEEVD |
| 3338 | sp|B8EM94|HSLU\_METSB | MTDFSPREIVSELDRFIVGQHDAKRAVAIALRNRWRRLRLEGSMRDEVLPKNILMIGPTGCGKTEISRRLAKMAGAPFLKVEATKFTEIGYVGRDVEQIVRDLVETAISMIKEDKRKLVRAKAELAAEDRILDALVGPGASPPTRDSFRKKLRAGELEDKEIEVEIAQGSGGAMPMFELPNMPGAQIGAMSLGDMFGKAFGKGGKPRRMSVKDAVEPLITEEGDKLMDQDVIVREAIVEVENNGIVFLDEIDKICVREGSRGGADVSREGVQRDLLPLIEGANVPTKHGVVKTDHILFIASGAFHVSKPSDLLPELQGRLPIRVELAPLTEDDFRRILTDTEASLLKQYEALMRTEGVELSFTPDAVNALAKIAAQVNSSVENIGARRLQTVMERVLDEISFSATDRFGEKIEIDAAYVEQHIGDLARNADLSRFIL |
| 3339 | sp|A9MHS3|HSPQ\_SALAR | MIASKFGIGQQVRHSLLGYLGVVVDIDPEYSLDEPSPDELAVNDELRAAPWYHVVMEDDNGQPVHTYLAEAQLRSEMRDEHPEQPSMDELARTIRKQLQAPRLRN |
| 3340 | sp|P97541|HSPB6\_RAT | MEIRVPVQPSWLRRASAPLPGFSTPGRLFDQRFGEGLLEAELASLCPAAIAPYYLRAPSVALPTAQVPTDPGYFSVLLDVKHFSPEEISVKVVGDHVEVHARHEERPDEHGFIAREFHRRYRLPPGVDPAAVTSALSPEGVLSIQATPASAQASLPSPPAAK |
| 3341 | sp|Q21H71|HSLU\_SACD2 | MSTMTPREIVHELDQHIVGQQDAKKAVAIALRNRWRRMQLDAKLRTEITPKNILMIGPTGVGKTEIARRLAKLTNAPFIKVEATKFTEVGYVGRDVESIIRDLVDSSIKMMREQEMTKVRHRAEEAAEERILNALLPPARGEDGAVEDSSTRQIFRKKLREGQLDDKEIEIDVSATPVGVEIMAPPGMEDMTSQLQNMFSSMNTGKTKKTKLTVKKAFKKLTDEEAAKLVNEEELKAQAIDAAEQNGIVFIDEIDKVAKREGNSGADVSREGVQRDLLPLIEGCTVSTKHGMIKTDHILFITSGAFHVSKPSDLIPELQGRLPIRVELQALTPDDFERILTEPTASLTEQHQSLLATEGTQIEFTADGIRKIAEIAYQVNKSTENIGARRLHTVLEKLLEEISFAAGESDNNVTIDAAFVDGQLGELTKNEDLSRFIL |
| 3342 | sp|Q1CBE8|HSLU\_YERPA | MSEMTPREIVSELDSHIIGQDKAKRAVAIALRNRWRRMQLNEELRHEVTPKNILMIGPTGVGKTEIARRLAKLANAPFIKVEATKFTEVGYVGKEVDSIIRDLTDAAVKMVRHQSIEKMRYRAEELAEERILDVLIPPAKNNWGVPDESQEPSATRQTFRKKLREGQLDDKEIEIDLAAAPMGVEIMAPPGMEEMTNQLQSMFQNIAGQKQKPRKIKIKEALKLLIEEEAAKLVNPEELKQQAIDAVEQHGIVFIDEIDKICKRGQTSGPDVSREGVQRDLLPLVEGCTVSTKHGMVKTDHILFIASGAFQVSSPSDLIPELQGRLPIRVELQALTTDDFERILTEPSASLTEQYKALMATEGVTIEFTREGIRKIAEAAWQVNERTENIGARRLHTVLERLMEDISYDASESSGQSITIDAEYVGKHLDELVADEDLSRFIL |
| 3343 | sp|Q31U59|HSLU\_SHIBS | MSEMTPREIVSELDKHIIGQDNAKRSVAIALRNRWRRMQLNEELRHEVTPKNILMIGPTGVGKTEIARRLAKLANAPFIKVEATKFTEVGYVGKEVDSIIRDLTDAAVKMVRVQAIEKNRYRAEELAEERILDVLIPPAKNNWGQTEQQQEPSAARQAFRKKLREGQLDDKEIEIDLAAAPMGVEIMAPPGMEEMTSQLQSMFQNLGGQKQKARKLKIKDAMKLLIEEEAAKLVNPEELKQDAIDAVEQHGIVFIDEIDKICKRGESSGPDVSREGVQRDLLPLVEGCTVSTKHGMVKTDHILFIASGAFQIAKPSDLIPELQGRLPIRVELQALTTSDFERILTEPNASITVQYKALMATEGVNIEFTDSGIKRIAEAAWQVNESTENIGARRLHTVLERLMEEISYDASDLSGQNITIDADYVSKHLDALVADEDLSRFIL |
| 3344 | sp|B7VII6|HTPG\_VIBTL | MSETATQNKETRGFQSEVKQLLHLMIHSLYSNKEIFLRELISNASDAADKLRFQALSNGDLYQGDADLGVKLSFNAEANTLTISDNGIGMSRDNVIEHLGTIAKSGTADFFSKLSEDQSKDSQLIGQFGVGFYSAFIVADAVTVRTRAAGLANDQAVQWHSAGEGDYTIEDITKESRGTDIILHMREDGKEFLNEWRLREVIGKYSDHIGIPVSIFTAVKDDEGKDTEEKHWEQINKAQALWTRNKSDIEKEEYQEFYKHVSHDFADPLTWSHNKVEGKNDYTSLLYIPAKAPWDMMNRDHKSGLKLYVQRVFIMDDAEQFMPSYMRFVRGLIDSNDLPLNVSREILQDNKVTQSLRGACTKRVLTMLERMAKNDNDKYLEFWKEFGLVLKEGPAEDMANKEKIAGLLRFSSTEVDSSEQTIGLASYVERMKEGQDKIYYLTADSYAAAKNSPHLEQFKAKGIEVVLMYDRIDEYVMNYLTDFDGKQFQSITKAGLDLSKFEGEEEKEKQKETEEEFKSVVERTQSYLGGRVKEVRTTFKLATTPAVVVTDDFEMGTQMAKLLEAAGQAAPEVKYIFEINPEHALVKQMADEADEQAFGRWVELLLGQAMLAEKGSMEDPSQFLGAINELLTKR |
| 3345 | sp|Q74H61|HRCA\_GEOSL | MTDISERNKLILEAIIEDYITTAEPVGSRAVTKRHGLTLSPATVRNVMADLEEMGYLVSPHTSAGRVPTDKAYRLYVDSLLAVRRIDKVERERIRKRYAEAGRDIGAVLHETSRLLSSVSHYTGIVLAPRFSATIFRHIEFVKLGGRRILVILVADNGTVQNRLIESDEEFSSEELIRMSNYLNELLVGVPVGQVRTRILEEMRNEKVLYDKLLARALQLSEQSLNDDGAQIFIEGQTNILEQPEFADSRRMRDLFRAFEEKNQLVGLLDRCLNAQGVQIFIGAETHLSQMEGLSIITSTYLTGKNTLGVLGVIGPTRMGYAKVIPIVDYTAKLVSRLLEGE |
| 3346 | sp|P22121|HSF\_KLULA | MGHNDSVETMDEISNPNNILLPHDGTGLDATGISGSQEPYGMVDVLNPDSLKDDSNVDEPLIEDIVNPSLDPEGVVSAEPSNEVGTPLLQQPISLDHVITRPASAGGVYSIGNSSTSSAAKLSDGDLTNATDPLLNNAHGHGQPSSESQSHSNGYHKQGQSQQPLLSLNKRKLLAKAHVDKHHSKKKLSTTRARPAFVNKLWSMVNDKSNEKFIHWSTSGESIVVPNRERFVQEVLPKYFKHSNFASFVRQLNMYGWHKVQDVKSGSMLSNNDSRWEFENENFKRGKEYLLENIVRQKSNTNILGGTTNAEVDIHILLNELETVKYNQLAIAEDLKRITKDNEMLWKENMMARERHQSQQQVLEKLLRFLSSVFGPNSAKTIGNGFQPDLIHELSDMQVNHMSNNNHNNTGNINPNAYHNETDDPMANVFGPLTPTDQGKVPLQDYKLRPRLLLKNRSMSSSSSSNLNQRQSPQNRIVGQSPPPQQQQQQQQQQGQPQGQQFSYPIQGGNQMMNQLGSPIGTQVGSPVGSQYGNQYGNQYSNQFGNQLQQQTSRPALHHGSNGEIRELTPSIVSSDSPDPAFFQDLQNNIDKQEESIQEIQDWITKLNPGPGEDGNTPIFPELNMPSYFANTGGSGQSEQPSDYGDSQIEELRNSRLHEPDRSFEEKNNGQKRRRAA |
| 3347 | sp|B9EBD3|HSLV\_MACCJ | MNNQLHATTIFAIRHNGRAAMSGDGQVTLGQQVIMKQTARKVRRLFNDEVVAGFAGSVADAFTLFEMFEAKLYEYNGNLSRAAVELAKEWRGDKMLRQLEAMLIVMNKDELLVVSGTGEVIQPDDDIIAIGSGGNYALSAGRALKRHASTLSARDIAQASLETAADICVFTNHNIIIEEI |
| 3348 | sp|A5IJQ2|HSLU\_THEP1 | MKSFDEMTPKEIVQELDKYIVGQYEAKKAVAIAVRNRIRRQKLPEEWRKEVLPKNILMIGPTGVGKTEIARRLAQLSGSPFLKVEATRFTEVGYVGKNVDSMIRDLVEISVNMVKQEKIKEVERQAEELVEERILDALVPESKAVPVVTNPFINLITGGQQQQYTPEDRRRFRAKREEMREKLRKGELENEEIEIELEETVSPFMGIFGPGMEDLGIEITNMFSGMLPKQKKKRKMKVSEARKVLLPLEAEKLIDMDKVVQEALDRAQNRGIIFIDEIDKIAGKESAVGPDVSRQGVQRDLLPIVEGTTIMTKYGPVRTDYILFIAAGAFHVSRPSDLIPELQGRFPIRVELSPLTEEDFVRILKEPENAIIKQYQALLSTEGVELVFTEDGIREMARIAYQLNQRLENIGARRLYTVAEKVLEEISFEAPDIPEKRVVVDAEYVRRRLEKIVQDEDLSAYIL |
| 3349 | sp|Q21CI5|HRCA\_RHOPB | MAHHDPIGLIAPNAGLAQLNERSREIFRQIVESYLATGEPVGSRNISRLITVPLSPASVRNVMSDLEQLGLIYAPHTSAGRLPTELGLRFFVDALMQVGDLTEPERQSIQAQLASVGRAQSVEAALGEALTRLSGLTRAAAVVLTAKSNARLKHIEFVRLEPERALVVLVSEDGQVENRVLTLAAGVPSSALIEASNFLNARIRGRTLAEARLELETALSQDRAELDQLTQKVISAGIASWSGGANDDRQLIVRGHANLLEDLHALDDLERVRLLFDDLETKRGVIDLLGRAESAEGVRIFIGSENKLFSLSGSSTIIAPYSDGAGHIVGVLGVIGPTRLNYARVIPMVDYAARVVSQMLGG |
| 3350 | sp|B3WEQ9|HRCA\_LACCB | MLTKRQLLVLKEIIRLFTESGQPVGSKTLMQELPVHVSSATIRNDMAALEDAGLITKTHSSSGRVPSTQGYRYYLDHLVEPVRVSRHDLATIKQELGQRYSKMDEIVAQSVQILSNLTSYTAISLGPEVNNIKLTGFRLVPLGNHQVMAILVTNNGNVENQVFTVPPSISSDELEKAIRIVNDQLVGLPLVQVAQRLRTDVPSMLMQYLTSPDGFLDIFGNVLKSAASERFYVGGRLNLMDYLGDSDIHELKKIMSLIDADHGDLTELLGGPIRQTPVQVRLGPELKPIDLANLSLITASYDVGGHGTGMIALLGPTQMPYSKMIGLLDVFREELAKRLTDYYANFDQ |
| 3351 | sp|A5VJE5|HRCA\_LACRD | MLTQRQKKILQAIVRQYTSTGQPVGSKHLAEKLPFKVSSATVRNEMAVLEDNDLILKEHSSSGRIPSKRGYRYYVDNLLDPQAVTDNDLVVIQNSLGNGFQKIDEIISHSADILSNLTSYTAFTLKPEQESVRLSGFRVVPLGNHKVIAILVTDSGEVENQSFTLPPDIDTDAMQAVIRMINDQLVGLPLSEVVKRLKDDIPLQVLHYMHSPDGFLDIFDNVLSQAARERFFVGGRLNLLDFASTHDPHAIQSLYGLLDKNDNLSNILDSTLTSDNGVNVKIGQEISKNKLLDDYSLITASYNVEQYGRGIIAVLGPTRMPYSRTIGIVNAFRQELAKRLLDFYRHYYDS |
| 3352 | sp|A8ETF7|HSLV\_ARCB4 | MFDATTILAYKGKNKAVIGGDGQVTFGNTVLKGNATKIRTLYKDQILAGFAGSTADAFNLFDMFEGHLEACKGDLLKSVIAFSKEWRKDKVLRRLEAMMIVLNKEKIFILSGNGDVVEPEDGAIASIGSGGNFAISAARALAKHSSLDEEELVKESLMIAGELCIYTNQNIKILKLED |
| 3353 | sp|P0DB66|HRCA\_STRP3 | MITQRQNDILNLIVELFTQTHEPVGSKALQRTIDSSSATIRNDMAKLEKLGLLEKAHTSSGRMPSPAGFKYFVEHSLRLDSIDEQDIYHVIKAFDFEAFKLEDMLQKASHILSEMTGYTSVILDVEPARQRLTGFDVVQLSNHDALAVMTLDESKPVTVQFAIPRNFLTRDLIAFKAIVEERLLDSSVIDIHYKLRTEIPQIVQKYFVTTDNVLQLFDYVFSELFLETVFVAGKVNSLTYSDLSTYQFLDNEQQVAISLRQSLKEGEMASVQVADSQEAALADVSVLTHKFLIPYRGFGLLSLIGPIDMDYRRSVSLVNIIGKVLAAKLGDYYRYLNSNHYEVH |
| 3354 | sp|Q8RH08|HRCA\_FUSNN | MSANKKVRGEIMGISEREKLVLNAIVDYYLTVGDTIGSRTLVKKYGIELSSATIRNVMADLEDMGFIEKTHTSSGRIPTDMGYKYYLTELLKVEKITQEEIENISNVYNRRVDELENILKKTSTLLSKLTNYAGIAVEPKPDNKKVSRVELVYIDEYLVMAIIVMDDRRVKTKNIHLAYPISKEEVEKKVDELNAKIRNNEIAINDIEKFFTESTDIVYEYDDEDELSKYFINNLPSMLKNENIAEVTDVIEFFNERKDIRELFEKLIEQKAQENSKSNVNVILGDELGIKELEDFSFVYSIYDIGGAQGIIGVMGPKRMAYSKTMGLINHVSREVNKLINSMEKDKNKKV |
| 3355 | sp|P0A3I9|HRCA\_RHIRD | MGFSAPLSKDQASLLDERSREIFRRIVEGYLDTGEPLGSRSLSRLLPMSLSPASVRNVMSDLEELGLIYSPHISAGRLPTQTGLRFFVDAFMQVGDLPADERANIDRQIGPVAGHEQSLEGLLTEASRMLSGMSRGAGLVLTAKNDVILKHVEFIRLEPTKALAVLVGDHNQVENRIIELPAGISSSQLTEAANFINAHLSGQTLQELRGQFQTQRTELQSELGMLAQDLVERGLAIWAGDNEEGKLGRLIVRGRSNLLEGLAGEEDIDRVRMLFDDLERKENLIEILNLAESGSGVRIFIGSENKLFSLSGSSLIVAPYRDEENRVVGAVGVIGPTRLNYARIVPMVDYTAQIMARLSRKQR |
| 3356 | sp|B2TLZ5|HRCA\_CLOBB | MTIDDRKIKILQAIINDYIHTGDPVGSRTIAKKYNLGVGSATIRNEMADLEDMGYLEQPHASSGRVPSNKGYRLYVDSLMENQLLTPEENLKIKQYIIDTAMLEVDKIVRQTSSLLSELTNLTCVIQTPSVNKSFIKSLQLMKVDSTTLVSVIITDAGVMKNHIIRVNSTPTIEELNKINAVINRRLVNLCIEQINLQVINQLKEDLQGYDELFNALLTPLYETLKNAADSPDLIMEGATNIFNYPEYNDIEKAKEMLSLLNDKESLRDLLKTNKDITIRIGEENYKPQAKECSIIAAEYSFGNRPIGTIGLIGPKRIDYSKVISIMAEIVKELNNILNNQSK |
| 3357 | sp|Q5EF74|HRCA\_ANASL | MQVQLTNRQQHILWATVRHYIATAEPVGSKALIEEYDLGVSSATIRNVMGVLEKSGLLYQPHTSAGRVPSDSGYRIYVDKLITPSEVLAKEVESALQQRLQWEDWSLEILLQGAAQILASLSGCISLITMPQTNTATVRHLQLMQIEAGRIMLILVTDNYETHSKLMDLPPGRSEKPDPEVIDRELQIVSNFLNSHLRGRSLLEITTLDWSQLDREFQLYGEFLKTSVAGLANRTAAPAATQIMVRGVAEVLRQPEFSQLQQVQTIIQLLEEEQEQLWRLIFEEPELEDTNKSKVTVRIGAENPLEPIRTCSLISSTYRRGAVPLGSVGSSRPSRLDYENAIAVVAAAADYLSEAFS |
| 3358 | sp|B0B7W4|HRCA\_CHLT2 | MENRIEMSQLRASKKDSKISYVLLMATKLYLESGQPVGSKLLEETYCSDLSSATIRNYFAQLETNGFLRKNHISGGRIPTDLAFRYYADHNAPFLEQEEILAIQQKLTELPEYSKNIVKDLQKASEVLSDILQLPVCFSSPRFESDSVINIQLVAIDDQRVVFVLSTEFGQVFTDVLWLPEQLPENSLKRIEGFLQNYLRKQPSDSLLSQKEEDLGMVLYNEVVVRYLTRYCHFSEEDLYQTGLSRLLKYETFKDPETLAQGLAFFENRKHMCQLLNTYLHKETPTAFIGRELTDIVGNTDPSCAVITIPYYMDRTPLGAFGVLGPMNLPYQQVFGTLSLFTERLKVILTQSFYKFKLSFRRPCPTDPRCSQRPAELTRSSSIKLLPAKELS |
| 3359 | sp|Q0TNS5|HRCA\_CLOP1 | MIDDRKLQILRAIIQDYISTGEPVGSRTIAKKYNLGVSSATIRNEMADLEDMGFLEQPHTSAGRIPSSRGYRLYVDRMIEFERLSSEEEGLIRSSIIDGTLYEVDKIIKQTSALLSELTKMTCIVKAPSVHKSFVKSIQLLKVDDVSILCVLVTDNGVIRNTVIKVKSVPISEELIKISKIITERLKNLTIEQINLEVISNLNRALSGYEDIVNAVLPALYESLKGDETSEVFLEGTINIFNYPEYNNIHKAKEILELLHDKKSISELISDSDDMTVKIGDEIFVPEAKECSIISAGYHVGDRSLGTIALIGPRRINYSKVLSIMTEVMKELNETLKNK |
| 3360 | sp|B0BC29|HRCA\_CHLTB | MENRIEMSQLRASKKDSKISYVLLMATKLYLESGQPVGSKLLEETYCSDLSSATIRNYFAQLETNGFLRKNHISGGRIPTDLAFRYYADHNAPFLEQEEILAIQQKLTELPEYSKNIVKDLQKASEVLSDILQLPVCFSSPRFESDSVINIQLVAIDDQRVVFVLSTEFGQVFTDVLWLPEQLPENSLKRIEGFLQNYLRKQPSDSLLSQKEEDLGMVLYNEVVVRYLTRYCHFSEEDLYQTGLSRLLKYETFKDPETLAQGLAFFENRKHMCQLLNTYLHKETPTAFIGRELTDIVGNTDPSCAVITIPYYMDRTPLGAFGVLGPMNLPYQQVFGTLSLFTERLKVILTQSFYKFKLSFRRPCPTDPRCSQRPAELTRSSSIKLLPAKELS |
| 3361 | sp|B7NF03|IBPB\_ECOLU | MRNFDLSPLMRQWIGFDKLANALQNAGESQSFPPYNIEKSDDNHYRITLALAGFRQEDLEIQLEGTRLSVKGTPEQPKEEKKWLHQGLMNQPFSLSFTLAENMEVSGATFVNGLLHIDLIRNEPEPIAAQRIAISERPALNS |
| 3362 | sp|Q9Z616|IBP\_BUCAP | MSYRSFSFLPNIDQNSVFSNRFNQIDKIFSTLTGEKPLSDTPAYNLFQIDEHKYELILSIPGYEEKELDISVHNSQLTVQGKKQNQENDDKKIKKYLHKGIIFNDFSLNFNFDHKIQVKKAELFSGLLKINFECRVPDEEKPKKIFINIPNKVKEIEKNKI |
| 3363 | sp|B6I3S0|IBPA\_ECOSE | MRNFDLSPLYRSAIGFDRLFNHLENNQSQSNGGYPPYNVELVDENHYRIAIAVAGFAESELEITAQDNLLVVKGAHADEQKERTYLYQGIAERNFERKFQLAENIHVRGANLVNGLLYIDLERVIPEAKKPRRIEIN |
| 3364 | sp|B7UMF3|IBPB\_ECO27 | MRNFDLSPLMRQWIGFDKLANALQNAGESQSFPPYNIEKSDDNHYRITLALAGFRQEDLEIQLEGTRLSVKGTPEQPKEEKKWLHQGLMNQPFSLSFTLAENMEVSGATFVNGLLHIDLIRNEPEPIAAQRIAISERPALNS |
| 3365 | sp|A9R4H1|IBPB\_YERPG | MRNYDLSPLLRQWIGFDKLASTMQGGQEPQGFPPYNIEKTDDNHYRISLALAGFKQSELDIEVEGPRLTVRGKPTPVEKQVEYLHQGLVRKEFSLTFTLAEHLNVDNAQFENGLLHIDLLRQVPEALQPQRIAIGSATPQERQVLESPEAPDQQ |
| 3366 | sp|Q0SYM9|IBPB\_SHIF8 | MRNFDLSPLMRQWIGFDKLANALQNAGESQSFPPYNIEKSDDNHYRITLALAGFRQEDLEIQLEGTRLSVKGTPEQPKEEKKWLHQGLMNQPFSLSFTLAENMEVSGATFVNGLLHIDLIRNEPEPIAAQRIAISERPALNS |
| 3367 | sp|C1P619|ILVX\_ECOLI | MNNSTKFCFSRFRTGN |
| 3368 | sp|B5FK32|IRAP\_SALDC | MKNLIAELLLKLAQKEEESKELVAQVEALEIIVTAMLRNMAQNEQEMLIRQVEGALEGVKPDASVPDHDTELLRQYVKKLLRHPRH |
| 3369 | sp|A7MLV0|IRAP\_CROS8 | MKNLIAELLVKLAEKEEESKELVAQVEALEIVVTALLRHLDPNTQQTLIASVEGALEGVQPESNVPQRDTELLQQYVKKLLRHPRT |
| 3370 | sp|Q96273|LEA18\_ARATH | MQSAKEKISDMASTAKEKLNIGGAKAQGHAEKTMARTKKEKKLAQEREKSKEAQAKADLHQSKAEHAADAQVHGHHLPGHSTYPTRATGANYPPGQI |
| 3371 | sp|P46522|LEA5D\_GOSHI | MARSVSSFKLLGASIFDGLYVSISRRGYSGAPPAAVTASFGRPGAMGKVERRDAMKESSSSETRAYSSAWAPDPVTGYYRPENCGAEIDAAELREMLLNHRVRSQ |
| 3372 | sp|Q39138|LEA6\_ARATH | MQSAKQKISDMASTAKEKMVICQAKADEKAERAMARTKEEKEIAHQRRKAKEAEANMDMHMAKAAHAEDKLMAKQSHYHVTDHGPHVPQQAPVPAPAPVMGHGYGHNPTGVTSVPPQTYHPTYPPTGHHNHHHY |
| 3373 | sp|A8M1E8|LON\_SALAI | MATLPVLPLTDAVLLPGMAIPVTLDPTTQAAVDAARATGDQRLLAVPRLDGEYGPVGVVATIEKVGRLPSGEPAAVVRGLARARIGSGVPGPGAALWVEAAELAEPAPAGRARELAREYRALMTSVLQQRGAWQVIDAIERMTDLSELADSAGYVSWLSLAQKTELLAAPDVTTRLELLVGWVRAHLAEQEVAEQINTDVREGLEKSQREFLLRQQLATIRKELGEDEPEGSADYRARVEAADLPAPVRDAALREVGKLERASDASPEAGWIRTWLDTVLEMPWNTRTEDNTDLVAARAVLDADHAGLTDVKDRILEYLAVRNRRVERNLGVVGGRGSGAVLALAGPPGVGKTSLGESVARALGRRFVRVSLGGVRDEAEIRGHRRTYVGALPGRIVRALREAGSMNPVVLLDEVDKLAVGYSGDPAAALLEVLDPAQNHTFRDHYLEVDLDLSDVLFLATANVVEAIPSPLLDRMELVTLDGYTEDEKVAIARDHLLPRQRERAGLTADEVTISDGVLARIAGEYTREAGVRQLERSLAKIFRKVAVTATTDPAPVHVDTGNLHRYLGRPKFSPESAERTAVPGVATGLAVTGAGGDVLFVEATSMAGEPGLTLTGQLGDVMKESAQIALSYLRSNGRRLGLDPNALAGRRIHLHVPAGAVPKDGPSAGITMVTALASLVSGRPVRPEFGMTGEVTLSGRALPIGGVKQKLLAAHRAGLTEVIIPQRNEPDLDDLPAEVREALTVHTLADVADVLALALRPADLDADSLDGEALATA |
| 3374 | sp|P45239|LPXL\_HAEIN | MKNEKLPQFQPHFLAPKYWLFWLGVAIWRSILCLPYPILRHIGHGFGWLFSHLKVGERRAAIARRNLELCFPDMPENEREVILQENLRSVGMAIIETGMAWFWSDSRIKKWSKVEGLHYLKENQKDGIVLVGVHFLTLELGARIIGLHHPGIGVYRPNDNPLLDWLQTQGRLRSNKDMLDRKDLRGMIKALRHEETIWYAPDHDYGRKNAVFVPFFAVPDTCTTTGSYYLLKSSQNSKVIPFAPLRNKDGSGYTVSISAPVDFTDLQDETAIAARMNQIVEKEIMKDITIYMWLHRRFKTRPDEKTPSLYD |
| 3375 | sp|A9KH99|LON\_LACP7 | MSEYTRQLPVVALRNMAVMPGMLIHFDVNRKVSIEAIEAAMLLNQQVLLVSQIDAETENPTADDLYRVGTIAEIKQMIKLPGNVIRVLVTGLERATLDSLVSEQPYLKAQLTSKEAELLNLTEAEEEAMVRALRDLFEVYTTENNKLNKDIIRQVEASREIEKMVEQLSIHIPMTLEDKQLLLAASDLMEQYERLCLILADEIEVMRIKRELQNKVKDKVDKNQKDYIMREQLKVIKEELGETSSVSDIMQYLEQLKELVASDEVKEKIKKEIERFQNVAGSNSESAVARGYVETLLSLPWDKVSEDFMDLAYAKEVLETEHYGLKKVKERVLDFLAVRQLTEKGDSPIICLVGPPGTGKTSIARSIAKALNKEYVRISLGGVRDEAEIRGHRRTYVGALPGRIITGLKQAKVKNPLMLLDEIDKMSSDYKGDTASAMLEVLDSEQNCNFVDHYVEIPVDLSEVMFIATANTTQTIPKPLLDRMEIIEVSSYTENEKFHIAKNHLLNKQIEKNGLKKSQISISEKALRKIISDYTREAGVRGLERKISEVCRKIARELLEQESKENQNLIKSAKNKSNNKNQSHSEVAAAVEAEEISVTTKPSKIKVTEKNITTYLGKPKFRNEIASQKDEVGIVCGLAWTSVGGTTLQIEVNSLPGKGALILTGQMGDVMKESAQLGISYIRSLSKEYKISEEYFQKNDIHIHIPEGATPKDGPSAGITMATAMLSAITGKKVHAKVAMTGEITLRGRVLPIGGLKEKLLAAKNTGIKKVLIPEKNRPDLEELEQEITEGMEVICVATMDEVLKHALV |
| 3376 | sp|B3ERM8|LON\_AMOA5 | MFKNMTLLGTLIEHSDGLPLLETNMKNMHKDHNQDASLTLLASKYNVLFPGIYMPMTLENASIIRLVKKVYETGGIIGIVAQKKEDVEATSAQDIFTIGTTARILKLINLPDERVRILLQGEEKFQIEDVIAETPYLLASISRLKDKTSNTQSKHFKAVVSSIKETVAKLISLQPEFPTEIKLLLDNINDFNLLTYFLASGLDTDIKSKQKLLEIHDSKKRGTVLLKYLLKDLEVSKLRKKIQDKVHTDIEQLQHDFYIRRQIKVLQEELGENEFEDEIDELRAEGEKKQWPKEVADYFYKALDKAERLSPNSADYPVLISHAELMLELPWSVYTTDNMDLKMAKKVLDTEHYGLEKVKERLLEYLAVRKLTQNMKGPILCLYGPPGVGKTSLGKSIAKALNRKYVKVSLGGLHDEAEIRGHRKTYVGAMPGRIIKGIQNSGSSNPVFMLDELDKITDLRGDPAAALLEVLDPEQNQAFVDTFLEVPYDLSKVLFIATANQLDTIPPALRDRLEIIEINGYTIEEKLQIAKKYLFPKQRKENGLKATDLSIHDTAIVKVIESYTRESGVRELDRKLASLVRKVGKAMVLEEPYPKKIHKEDVISLLGIELFDQEMYQQTHLPGVAIGLAWTPVGGDILFIEAILSAGKGKLTLSGQLGDVMKESAMTAFTYLKANTNLLGIPDKVFESYDLHIHLPAGAVPKDGPSAGITLFAALASLYTQRKVKDKVAMTGEITLRGKVLPVGGIKEKILAAKRAGIKEVILSKENKKDIQEIKQKDIQDLKFHYVEFVEEVIQLALQPSKVEAAKDWSITKKRKQQPGIGHVSTL |
| 3377 | sp|A5FG89|LON\_FLAJ1 | MSNHKILTIDNLSLQEFDSEAELIPLLTPEDEEEMNNEELPVSLPILPLRNTVLFPGVVIPISAGRDKSIKLINDANAGGKIIGVVSQINEEDEDPSKDDIHKIGTVARILRVLKMPDGNVTVILQGKKRFEIDEVVSEEPYMTASIKEVSEERPDENDSEFTAILDSVKELAIQIIKESPNIPSEATFAIKNIESQSFLINFVSSNMNLSVKEKQGLLSINGLKERALETLRYMNVELQKLELKNDIQSKVRFDLDQQQREYFLHQQMKTIQEELGGVSQEEEMDEMGQKAKTKKWDEKTQKHFEKELSKMRRMNPQSPDFGIQRNYLELFLELPWGEYSKDKFDLKHAQKVLDKDHFGLDEVKKRMIEHLAVLKLRNDMKSPIICLTGPPGVGKTSIGRSVAEALGREYVRISLGGLRDEAEIRGHRKTYIGAMPGRIIQSLKKAGTSNPVFILDEIDKLSSGNSGDPSSALLEVLDPEQNNAFYDNFLEMGYDLSKVMFIATSNNMAAIQPALRDRMEVIKMSGYTIEEKVEIAKRHLFPKQLEAHGLTSKDLTIGKKQLEKIVEGYTRESGVRNLETKIAQVIRNAAKAVAMEEEYNKKVTDEDIVKVLGVPRLERDKYENNDVAGVVTGLAWTSVGGDILFIESLISEGKGALTITGNLGNVMKESATIALEYIKANAKKLGLAIELFQKYNIHLHVPEGATPKDGPSAGIAMLTSLVSLLTQKKVKKSLAMTGEITLRGKVLPVGGIKEKILAAKRAGIKEIILCHENKSDIDEIKEEYLEGLTFHYVKEMSEVLAIALTDQNVKNAKTLK |
| 3378 | sp|P42834|MDJ2\_YEAST | MVLPIIIGLGVTMVALSVKSGLNAWTVYKTLSPLTIAKLNNIRIENPTAGYRDALKFKSSLIDEELKNRLNQYQGGFAPRMTEPEALLILDISAREINHLDEKLLKKKHRKAMVRNHPDRGGSPYMAAKINEAKEVLERSVLLRKR |
| 3379 | sp|Q61161|M4K2\_MOUSE | MALLRDVSLQDPRDRFELLQRVGAGTYGDVYKARDTVTSELAAVKIVKLDPGDDISSLQQEITILRECRHPNVVAYIGSYLRNDRLWICMEFCGGGSLQEIYHATGPLEERQIAYVCREALKGLHHLHSQGKIHRDIKGANLLLTLQGDVKLADFGVSGELTASVAKRRSFIGTPYWMAPEVAAVERKGGYNELCDVWALGITAIELGELQPPLFHLHPMRALMLMSKSSFQPPKLRDKTRWTQNFHHFLKLALTKNPKKRPTAERLLQHPFTTQHLPPALLTQLLDKASDPHLGTLSPEDSELETHDMFPDTIHSRSHHGPAERTPSEIQFHQVKFGAPRRKETDPLNEPWEEEWTLLGKEELSGSLLQSVQEALEERSLTIRPALELQELDSPDDAIGTIKRAPFLGLPHTESTSGDNAQSCSPGTLSAPPAGPGSPALLPTAWATLKQQEDRERSSCHGLPPTPKVHMGACFSKVFNGCPLQIHAAVTWVHPVTRDQFLVVGAEEGIYTLNLHELHEDTMEKLISQRCSWLYCVNNVLLSLSGKSTHIWAHDLPGLFEQRRLQHQAPLSIPTNRITQRIIPRRFALSTKIPDTKGCLQCRVVRNPYTGSTFLLAALPASLLLLQWYEPLQKFLLLKNFSSPLPSPAGMLEPLVLDGKELPQVCVGAEGPEGPGCRVLFHVLPLEAGLTPDILIPPEGIPGSAQQVIQVDRDTVLVSFERCVRIVNLQGEPTAALAPELTFDFTIETVVCLQDSVLAFWSHGMQGRSLDTNEVTQEITDETRIFRVLGAHRDIILESIPTDNPGAHSNLYILTGHQSSY |
| 3380 | sp|P0AE70|MAZF\_ECOLI | MVSRYVPDMGDLIWVDFDPTKGSEQAGHRPAVVLSPFMYNNKTGMCLCVPCTTQSKGYPFEVVLSGQERDGVALADQVKSIAWRARGATKKGTVAPEELQLIKAKINVLIG |
| 3381 | sp|F4J0W4|MIRO2\_ARATH | MMLGGKSSAGGRTSLRVAVAGDKGTGKSSLISAVASETFPDNVPRVLPPITLPADAFPDYIPITIVDTPSSIDNRIKLIEEFRKADVVLLTYACDQPSTLDRLSSYWLPELRRLEIKAPVIVVGCKLDLRDERSPARLEDIMSPIMKEYREIETCIECSALTLIQVPDVFYFASKAVLHPTFPLFDQEKQCLKPRLRRAVQRIFNLCDHDLDGALNDAELNDFQVNCFGAPLDPVELMGVKKVVQERQPDGVTDLGLTLPGFLFLFSLFIERGRPETAWAILRKCGYNDSLELHAELLPVPAKQSPDQSIELTNEAMDFLSGIFQLYDLDNDGALQPAELDDLFQTAPDSPWLEDPYKEAAEKTPGGSLTINGFLSEWALMTLLDPRKSLANLTYIGYGHDPASTFSVTRKRSVDRKKQRTERNVFQCFVFGPKKSGKSALLDSFLGRKFSNSYKATMGERYAANVIDQPGGSKKTLILREIPEDRVKKFLTNKESLAACDVAVVVYDSSDVYSWRKAREILMEVARRGEERGYGTPCLLVAAKDDLDPYPMSVQESDRVCMELGIDIPVSLSMKLGEPNSLFSRIVSTAENPHMSIPETESGRRSRNIRQLVNSSLLFVSVGTAVGFAGLAAYRAYSARKNA |
| 3382 | sp|A1UL69|MPRB\_MYCSK | MTLPPPPSRLKPPRNTSSLSLRWRVMLLAMSMVAMVVVLMSVAVYAVVSRALYDDIDNQLHSRARLLIESGSLAADPGKAIEGTAYSDVNAMLVNPGRSIYTANQQGQTLPLGEAEKDVISGELLLSLRTANHQRILAVHLTNGSSLLISKSLAPTGQVLGRLGTVLLIVGGVGVAVAAIAGGMVARAGLRPVGRLTQAAERVARTDDLRPIPVFGSDELARLTEAFNMMLRALTESRERQARLVSDAGHELRTPLTSLRTNVELLMASQAPGAPRLPEEEMAGLRADVIAQIEELSTLVGDLVDLTRDEAGGVVYETVDMAEVVDRSLERVRRRRNDIEFDVNVVGWQVYGDAAGLARAVLNLLDNAAKWSPPGGRVGVRLTQTDPVHAELVVSDQGPGIPEAERRLVFERFYRSTAARAMPGSGLGLAIVKQVVLKHGGALRVEDTVPGGNPPGTSFYVMLPGRPLTPGGNGTAPVPAAQFDPDMRSAGSRADRRVIKNTETNGKSRSASKEL |
| 3383 | sp|Q4KGQ4|DEGPL\_PSEF5 | MSIPRLKSYFTILATVLVLGQAVSAQAAELPDFTQLVEQASPAVVNISTTQKLPDRRVSNSAQMPDLEGLPPMLREFFERGMPQPRSPRGDRQREAQSLGSGFIISADGYILTNNHVIADADEILVRLADRSELKAKLIGTDPRSDVALLKIDGKDLPVLKLGKSQDLKAGQWVVAIGSPFGFDHTVTQGIVSAIGRSLPNENYVPFIQTDVPINPGNSGGPLFNLAGEVVGINSQIYTRSGGFMGVSFAIPIDVAMDVSNQLKTGGKVSRGWLGVVIQEVNKDLAESFGLEKPAGALVAQIQDDGPAAKGGLQVGDVILSLNGQPIVMSADLPHLVGALKAGAKANLEVIRDGKRKNVELTVGAIPEEDKDLSMLPKSGVERSSNRLGVAVVELNDEQKKAFDLKGGVVIKEVQDGPAALIGLQPGDVITHLNNQAITSAKEFTEIAKALPKNRSVSMRVLRQGRASFITFKLAE |
| 3384 | sp|P33906|DEAD\_KLEPN | MAEFETTFADLGLKAPILEALTDLGYEKPSPIQAECIPHLLDGRDVLGMAQTGSGKTAAFSLPLLNNIDPELRAPQILVLAPTRELAVQVAEAMTEFSKHMRGVNVVALYGGQRYDVQLRALRQGPQIVVGTPGRLLDHLKRGTLDLSKLSGLVLDEADEMLRMGFIEDVETIMAQIPEGHQTALFSATMPEAIRRITRRFMKEPQEVRIQSSVTTRPDISQSYWTAYGMRKNEALVRFLEAEDFDAAIIFVRTKNATLEVAEALERNGYNSAALNGDMNQALREQALERLKDGRLDILIATDVAARGLDVERISLVVNYDIPMDSESYVHRIGRTGRAGRAGRALLFVENRERRLLRNIERTMKLTIPEVELPNAELLSKRRLEKFAAKVQQQLESSDLDQYRALLAKIHATAEGEELDVETLAAALLKMAQGERSLIVPPVAPMRPRREFRDRDDSFDRRGDRNDRGPRGDREDRPKRERRDVGDMELYRIEVGRDDGVEVRHIVGAIANEGDISSRYIGNIKLFASHSTIELPKGMPGEVLQHFTRTRILNKPMNMQLLGDAQPRTERRGGGERREGGRGFGGERREGGRGFGGERREGGRGEGRRFSGERREGRAPGRDDASAPRRDDSAGRRRFGGDA |
| 3385 | sp|O13995|DAP1\_SCHPO | MASTQVVFIVTLFLYLLITRWRRKNEKSFIASEEPKQPEWRDYTPAELKEYNGSKNSLVFLAIKGTVYNVTMGSKFYGPQGPYSAFAGHDASRGLAKNSFDDEFIPDSDAEELDDCSDLNDEERQALNDWKAFFDQKYQAVGRLISPREARAAATISETEEKVAHN |
| 3386 | sp|B2HZZ7|DNAK\_ACIBC | MAKIIGIDLGTTNSCVAVLEGDKVKVIENAEGARTTPSIIAYKDGEILVGQSAKRQAVTNPKNTLFAIKRLIGRRYEDQAVQKDIGLVPYKIIKADNGDAWVEVNDKKLAPQQISAEILKKMKKTAEDYLGETVTEAVITVPAYFNDAQRQATKDAGKIAGLDVKRIINEPTAAALAFGMDKKEGDRKVAVYDLGGGTFDVSIIEIADLDGDQQIEVLSTNGDTFLGGEDFDNALIEYLVEEFKKEQNVNLKNDPLALQRLKEAAEKAKIELSSSNATEINLPYITADATGPKHLVINVTRAKLEGLVADLVARTIEPCKIALKDAGLSTSDISDVILVGGQSRMPLVQQKVQEFFGREPRKDVNPDEAVAIGAAIQGAVLSGDKNDVLLLDVTPLTLGIETMGGVLTPIIEKNTTIPAKKSQVFSTAADNQPAVDISVYQGERKMAQQNKLLGNFQLGDIPPAPRGVPQIEVSFDINADGILKVSAKDKSTGKEQSIQIKANSGLSDAEIEAMIKDAEANAEEDRKFEELAKARNEADALISSSNKAVKDLGDKVTEDEKTAVNTAVSELEAATKENDVEAIKAKTEALQNILMPITQRAYEQAQQAGGAEGFDPNAFQGGDAGQQKADDGVVDAEFTEVKDDKK |
| 3387 | sp|B0KIS5|DNAK\_PSEPG | MGKIIGIDLGTTNSCVSILENGNVKVIENAEGARTTPSIVAYANDGEILVGQSAKRQAVTNPHNTLFAVKRLIGRRFEEEVVQKDIKLVPYKIVKGGNGDAWVQAGGKDMAPPQISAEVLKKMKKTAEDYLGEPVTEAVITVPAYFNDSQRQATKDAGRIAGLDVKRIINEPTAAALAYGMDKAKGDHTVIVYDLGGGTFDVSVIEIAEVDGEHQFEVLATNGDTFLGGEDFDMRLIDYLVDEFKKESGMDLKNDPLALQRLKEAAEKAKIELSSTQSTDVNLPYITADATGPKHLNVKISRAKLESLVEDLVQRTIEPCRIALKDAGIDASKIDDVILVGGQTRMPLVQKTVADFFGKEARKDVNPDEAVAMGAAIQGAVLAGDVKDVLLLDVSPLTLGIETMGGVMTALIEKNTTIPTKKSQVFSTADDNQGAVTIHVLQGERKQAAQNKSLGKFDLADIPPAPRGVPQIEVTFDIDANGILHVGAKDKATGKAQSIVIKANSGLSDEEIERMVRDAEANAEEDRKFEELAAARNQGDALVHSTRKMVVDAGDKVTAEEKAAIEAAVVALEAAVKGDDKAAIDAKVEELSKVSAPVAQKMYAEQSAEQPQGGAQQAEPEAKHDDVVDAEFEEVKGDDKK |
| 3388 | sp|P80692|DNAK\_MYCSM | ARAVGIDLGTTNXVXAV |
| 3389 | sp|B3H2X7|DNAK\_ACTP7 | MGKIIGIDLGTTNSCVAVMDGDKARVIENAEGARTTPSIIAYTDNETLVGQPAKRQAITNPKNTLFAIKRLIGRRFESEEVQRDIKIMPFEITRADNGDAWVNVKGDKLAPPQISAEVLKKMKKTAEDFLGEAVTEAVITVPAYFNDAQRQATIDAGRIAGLDVKRIINEPTAAALAFGLGSTKENQVIAVYDLGGGTFDISIIEIDNFDGEQTFEVLATGGNTHLGGEDFDNRVIDYIIDEFKKEQGVDLRNDPMALQRVKEAAEKAKIELSSAQSTEVNLPYITADATGPKHLAINVTRAKLEALVEDLVASSIESLKTVLKDAGKSVNEINDIILVGGQTRMPLVQQKVAEFFGKEARKDVNPDEAVAIGAAVQGGVLKGDVKDVLLLDVTPLSLGIETMGGVMTVLIEKNTTIPTKKSQVFSTAEDNQSAVTIHVLQGERKQASANKSLGQFNLEGINPAPRGMPQIEVTFDIDANGVINVSAKDKNTGKEQQIRIQASSGLSDEEIEKMVRDAEANAEADKKFEELVQARNQADGIAHATRKQIEEAGDALNADDKAKIEAAIADLEKAAKGDDKAEIDAKTEALIKASEPLMQAAQAKAQAGEQPQQSAKDDGVVDAEFEEVKDNK |
| 3390 | sp|Q0C454|DNAJ\_HYPNA | MSKRDYYEVLGVERGVDEKALKSAYRKLAMKYHPDQNAGDTAAEDKFKEVGEAYAILSDPQKRAAYDRYGHGAFENGGMGGGSPFGGQGGNPEDIFQDLFSQVFGAGGFAGGRRRSGPQRGADLRYDLEITLEEAFYGKDETIHVPQAVACRPCEGTGAAPGTKPETCETCGGHGRVRAQQGFFTMERTCHICQGRGQIIRKPCKTCGGHGQVKEERKLQVKIPAGVESGMRIRLSGEGEPGTSGGPKGDLYIFVEVVEHDIFERDGPNLYCRAPVPMTTAALGGEIDIPTIDGGRARVAIPEGAQTGRKLRLRSKGMPSVRANGQTGDLYVEMFVETPQNLTARQKDLLRQFCDCSGADCHPESEGFLGKIKRFWGGEGDEKRPV |
| 3391 | sp|Q8Z9R1|DNAK\_SALTI | MGKIIGIDLGTTNSCVAIMDGTQARVLENAEGDRTTPSIIAYTQDGETLVGQPAKRQAVTNPQNTLFAIKRLIGRRFQDEEVQRDVSIMPYKIIGADNGDAWLDVKGQKMAPPQISAEVLKKMKKTAEDYLGEPVTEAVITVPAYFNDAQRQATKDAGRIAGLEVKRIINEPTAAALAYGLDKEVGNRTIAVYDLGGGTFDISIIEIDEVDGEKTFEVLATNGDTHLGGEDFDTRLINYLVDEFKKDQGIDLRNDPLAMQRLKEAAEKAKIELSSAQQTDVNLPYITADATGPKHMNIKVTRAKLESLVEDLVNRSIEPLKVALQDAGLSVSDINDVILVGGQTRMPMVQKKVAEFFGKEPRKDVNPDEAVAIGAAVQGGVLTGDVKDVLLLDVTPLSLGIETMGGVMTPLITKNTTIPTKHSQVFSTAEDNQSAVTIHVLQGERKRASDNKSLGQFNLDGINPAPRGMPQIEVTFDIDADGILHVSAKDKNSGKEQKITIKASSGLNEEEIQKMVRDAEANAESDRKFEELVQTRNQGDHLLHSTRKQVEEAGDKLPADDKTAIESALSALETALKGEDKAAIEAKMQELAQVSQKLMEIAQQQHAQQQAGSADASANNAKDDDVVDAEFEEVKDKK |
| 3392 | sp|Q9KD72|DNAK\_BACHD | MSKIIGIDLGTTNSCVAVMEGGEATVIPNPEGNRTTPSVVAFKDGERQVGEVAKRQAITNPNTVISIKRHMGTNHKENIEGKEYTPQEISAIILQKLKSDAEAYLGEEVTKAVITVPAYFNDSQRQATKDAGKIAGLEVERIVNEPTAAALAYGLDKEDDQTILVYDLGGGTFDVSILELGDGFFEVKATSGDNKLGGDDFDQVIIDHLIAEFKKENGIDLSQDKMAMQRLKDAAEKAKKDLSGVTSTQISLPFITADATGPKHLELTLTRAKFEELSSHLVERTLGPTRQALQDSGLSASEIDKVVLVGGSTRIPAVQEAIKNLTGKEPHKGVNPDEVVALGAAVQAGVLTGDVKDVVLLDVTPLSLGIETMGGVFTKLIERNTTIPTSKSQIFSTAADNQPSVDIHVLQGEREMAADNKTLGRFQLTDIPPAPRGVPQIEVTFDIDANGIVNVKAKDLGTNKEQSITITSSSGLTDEEIDQMVKDAEANAEADKKRREEVELRNEADQLVFTTEKTLKDLGDNVDEAEKTKAEEAKEKLKKAIEANNIDEIRTAKEELQQVVQALTTKLYEQAAQQAQQAQSAEGDQGTAEKGQDDNVVDADYEEVNEEDKK |
| 3393 | sp|Q486F9|DNAK1\_COLP3 | MTKIIGIDLGTTNSCVAVMEGGIAKIIENAEGSRTTPSIVAYANNETLAGQPAKRQSVTNSTNTLFAIKRLIGRKFDDKEVQKDIKLAPYKIVKADNGDAWVEVDGKALSPQEVSAQILRKLKKDAEAYLGETVTDAVITVPAYFNDSQRQATKDAGKIAGLNVKRIINEPTAAALAYGVDKNSNADQKVVVYDLGGGTFDLSIIEISNVDGEKQFEVLATNGDTFLGGEDFDLRLINYLADEFKKESGIDIHQDTLALQRIKEAAEKAKIELSSALQTEVNLPYVTADASGPKHLNVKVTRAKLESLVDDLVKSTIAPCEQALKDAGLSKADVSEVILVGGQTRMPKVQEAVKTFFSKEPRKDVNPDEAVAMGAAIQAGVMSGAVDDVLLLDVAPLSLGIETLGGVMTKLIEKNTTIPTRASETFSTAEDNQAAVTVHVLQGQREMATDNKSLGQFNLTDINPGPRGSVQVEVTFDIDVNGILNVSAKDKATGKEQSIKITASSGLTEDEINRMVKEAELHASEDKQKRELVDQRNQADQLIHTVQTSMTSLAQDQQTELKTLIEQLKMAVNGSDKAAIEMRQSALQEAYSKTMQTEQAQSQQAAQHQGNAANDGAKDEDIIDADFEDVSNG |
| 3394 | sp|A1AW22|DNAK\_RUTMC | MSRIIGIDLGTTNSCVAIMDGGNVKIIENSEGDRTTPSIIAYPKDSEEVLVGQPAKRQAVTNPENTLYAIKRLIGRRFDEDAVQKDINLVPYKIVKVDNGDAWVEVKGKKMAAPEISAKVIGKMKKTAEDYLGEEVTEAVITVPAYFNDSQRQATKDAGKIAGLNVKRIINEPTAAALAYGVDKVKGNKTIAVYDLGGGTFDVSIIEMEDIDGEKHFEVLSTNGDTFLGGEDFDQRIIGYLVDEFKRDQGVDLTNDPMALQRLKEAAEKAKIELSSSEQTDVNLPYVTADASGPKHLNIKITRAKLELLVEDLLKRTIEPCKTALKDADLSASDIDEVILVGGQTRMPKVTKMVQDFFGKEPKKDVNPDEAVAMGAAIQAGVLGGDVKDVLLLDVTPLSLGIETMGGIMTKLIEKNTTIPTNASQIFSTAVDNQSAVTVHVLQGERNMSSANKSLGQFNLEGIPNAPKGQPQVEVTFDIDSDGILDVSAKDKNTGKEQSITIKASSGLSDEEVEKMIKDAEAHADEDKKFQELVASKNMADSLIHSTKKTLEELKNEVSDDEKSVIEMAITELEKAIKNDDKKAIDAKIQTLSKKAQPLTEKVQAKSSAENTSKEKSKADDDVVDADFEEVKDDK |
| 3395 | sp|Q8EHT7|DNAK\_SHEON | MGKIIGIDLGTTNSCVAVLDGGKARVLENAEGDRTTPSIIAYTDDETIVGQPAKRQAVTNPNNTFFAIKRLIGRRFKDDEVQRDVNIMPFKIIAADNGDAWVESRGNKMAPPQVSAEILKKMKKTAEDFLGEEVTEAVITVPAYFNDSQRQATKDAGRIAGLEVKRIINEPTAAALAYGIDKKQGDNIVAVYDLGGGTFDISIIEIDSNDGDQTFEVLATNGDTHLGGEDFDNRLINYLADEFKKEQGLDLRKDPLAMQRLKEAAEKAKIELSSTNQTEVNLPYITADATGPKHLVVKITRAKLESLVEDLIIRTLEPLKVALADADLSVSDINEVILVGGQTRMPKVQEAVTNFFGKEPRKDVNPDEAVAVGAAIQAGVLSGDVKDVLLLDVTPLSLGIETMGSVMTKLIEKNTTIPTKAQQVFSTADDNQSAVTIHVLQGERKQASANKSLGQFNLDGIEPAPRGMPQIEVMFDIDADGILHVSATDKKTGKKQNITIKASSGLSEEEVAQMVRDAEAHAEEDKKFEELVQSRNQADGLVHATKKQVEEAGDALPSEDKAKIEAAMSAVETAVKGNDKEAIEKATQALIEASAKLMEIAQAKAQTQGGAQEGAAKQSNATADDVVDAEFEEVKDDKK |
| 3396 | sp|Q9ZEJ6|DNAK1\_NOSS1 | MGKVVGIDLGTTNSVVAVMEGGKPVVIANAEGMRTTPSVVGFSKDGERVVGQMARRQTVLNPQNTFFAVKRYIGRRYNELSPESKRVPYTIRKDEVGNIKVACPRLNKEFSAEEISAMVLKKLADDASAYLGSAVTGAVITVPAYFNDSQRQATRDAGRIAGLEVLRILNEPTAASLAYGLDRGDTETILVFDLGGGTFDVSILEVGDGVFEVKATSGDTQLGGNDFDKKIVDWLAEQFLETEGVDLRRDRQALQRLMEAAEKAKIELSAVSITDINLPFITATEDGPKHLETRLTRSQFEGLCVDLLGRVRNPVKRALKDAGLRPDDIEEVVLVGGSTRMPMVKQLVRDLIGIEPSENVNPDEVVAMGAAIQAGILAGEFKDVLLLDVTPLSLGLEAIGGVMKKLIPRNTTIPVRRSDIFSTSENNQNSVEIHVVQGEREMAGDNKSLGRFKLYGIPPAPRGIPQIQVAFDIDANGILQVTALDRTTGREQSITIQGASTLSESEVNRMIQEAQKYADVDRERKERVEKRTRSEALILQGERQLREVALEFGMQFARNRRQRIDNISRELKESLKENDDRGIDQAYADLQDALYELNREVRQYYAEDEDDDLFATIKDIFVGDKDKERDLPRDSYRERDAYNNRDYGRDYGRDYGRDSRPSYDNSRPPRKSPRPSYQDNWDDDDDWL |
| 3397 | sp|P0A6Y9|DNAK\_ECOL6 | MGKIIGIDLGTTNSCVAIMDGTTPRVLENAEGDRTTPSIIAYTQDGETLVGQPAKRQAVTNPQNTLFAIKRLIGRRFQDEEVQRDVSIMPFKIIAADNGDAWVEVKGQKMAPPQISAEVLKKMKKTAEDYLGEPVTEAVITVPAYFNDAQRQATKDAGRIAGLEVKRIINEPTAAALAYGLDKGTGNRTIAVYDLGGGTFDISIIEIDEVDGEKTFEVLATNGDTHLGGEDFDSRLINYLVEEFKKDQGIDLRNDPLAMQRLKEAAEKAKIELSSAQQTDVNLPYITADATGPKHMNIKVTRAKLESLVEDLVNRSIEPLKVALQDAGLSVSDIDDVILVGGQTRMPMVQKKVAEFFGKEPRKDVNPDEAVAIGAAVQGGVLTGDVKDVLLLDVTPLSLGIETMGGVMTTLIAKNTTIPTKHSQVFSTAEDNQSAVTIHVLQGERKRAADNKSLGQFNLDGINPAPRGMPQIEVTFDIDADGILHVSAKDKNSGKEQKITIKASSGLNEDEIQKMVRDAEANAEADRKFEELVQTRNQGDHLLHSTRKQVEEAGDKLPADDKTAIESALTALETALKGEDKAAIEAKMQELAQVSQKLMEIAQQQHAQQQTAGADASANNAKDDDVVDAEFEEVKDKK |
| 3398 | sp|Q65U55|DNAK\_MANSM | MGKIIGIDLGTTNSCVAVMDGDKPRVIENAEGERTTPSIIAYTQDNEVLVGQPAKRQAVTNPKNTLFAIKRLIGRRFEDQEVQRDVNIMPFQIIKADNGDAWVDVKGDKLAPPQISAEVLKKMKKTAEDFLGETVTEAVITVPAYFNDAQRQATKDAGRIAGLEVKRIINEPTAAALAYGLDKGKGNQTIAVYDLGGGTFDLSIIEIDEVGGEKTFEVLATNGDTHLGGEDFDNRVINYLVDEFKKEQGVDLRNDPLAMQRLKEAGEKAKIELSSAQQTDVNLPYITADATGPKHLNIKLTRAKLEALVEDLVARSMEPVKVALSDAGLSVSQIDDVILVGGQTRMPLVQQKVAEFFGKEPRKDVNPDEAVAVGAAVQGGVLAGNVTDVLLLDVTPLSLGIETMGGVMTTLIEKNTTIPTKKSQVFSTAEDNQSAVTIHVLQGERKQASANKSLGQFNLEGINPAPRGMPQIEVTFDIDADGIIHVSAKDKGTGKEQQITIKASSGLSDEEIQQMVRDAEANAEADRKFEELVQARNQADALVHSTRKQLTEAGDKLSADDKAPIEKAVNELEAAAKGEDKAEIEAKIQALIQVSEKLMQAAQQQAQADAGAQQAQGNNGGDDVVDAEFEEVKDNK |
| 3399 | sp|P77866|DNAJ\_AGGAC | MAKQDYYELLGISRSADEKEIKRAYKKLAMQYHPDRTKGDKEKEEKFKEIQEAYEVLNDKEKRAAYDQYGHAAFEQGTGFGGGSFGGADFGDIFGDMFGDIFGGGGRGRQRVVRGDDLRYDIEITLEEAVKGTTKDIKIHTLAPCDTCHGTGAEAGSKVETCPHCHGAGRLRRQQGFFVTEQPCHFCHGTGKKIEKPCKTCHGDGRVNKAKNLSVKIPAGVDTGNQLRLSGEGAAGENGAPAGDLYVVIHVKEHHIFERDGSNLYCEVPISFTMAALGGEIEVPTLDGRVKLKIPEETQTGKLFRMRGKGVTSTRSGYAGDLTCRIIVETPVKLNEEQKELLRKLEESLEGQTKQRPKSSSFLDGVKRFFDDLTK |
| 3400 | sp|P63969|DNAJ\_NEIMB | MSNQDFYATLGVARTATDDEIKKAYRKLAMKYHPDRNPDNKEAEEKFKEVQKAYETLSDKEKRAMYDQYGHAAFEGGGQGGFGGFGGFGGAQGFDFGDIFSQMFGGGSGRAQPDYQGEDVQVGIEITLEEAAKGVKKRINIPTYEACDVCNGSGAKPGTSPETCPTCKGSGTVHIQQAIFRMQQTCPTCHGAGKHIKEPCVKCRGAGRNKAVKTVEVNIPAGIDDGQRIRLSGEGGPGMHGAPAGDLYVTVRIRAHKIFQRDGLDLHCELPISFATAALGGELEVPTLDGKVKLTVPKETQTGRRMRVKGKGVKSLRSSATGDLYCHIVVETPVNLTDRQKELLEEFERISTGLENQTPRKKSFLDKLRDLFD |
| 3401 | sp|B7H317|DNAK\_ACIB3 | MAKIIGIDLGTTNSCVAVLEGDKVKVIENAEGARTTPSIIAYKDGEILVGQSAKRQAVTNPKNTLFAIKRLIGRRYEDQAVQKDIGLVPYKIIKADNGDAWVEVNDKKLAPQQISAEILKKMKKTAEDYLGETVTEAVITVPAYFNDAQRQATKDAGKIAGLDVKRIINEPTAAALAFGMDKKEGDRKVAVYDLGGGTFDVSIIEIADLDGDQQIEVLSTNGDTFLGGEDFDNALIEYLVEEFKKEQNVNLKNDPLALQRLKEAAEKAKIELSSSNATEINLPYITADATGPKHLVINVTRAKLEGLVADLVARTIEPCKIALKDAGLSTSDISDVILVGGQSRMPLVQQKVQEFFGREPRKDVNPDEAVAIGAAIQGAVLSGDKNDVLLLDVTPLTLGIETMGGVLTPIIEKNTTIPAKKSQVFSTAADNQPAVDISVYQGERKMAQQNKLLGNFQLGDIPPAPRGVPQIEVSFDINADGILKVSAKDKSTGKEQSIQIKANSGLSDAEIEAMIKDAEANAEEDRKFEELAKARNEADALISSSNKAVKDLGDKVTEDEKTAVNTAVSELEAATKENDVEVIKAKTEALQNILMPITQRAYEQAQQAGGAEGFDPNAFQGGDAGQQKADDGVVDAEFTEVKDDKK |
| 3402 | sp|Q3SW76|DNAK\_NITWN | MGKVIGIDLGTTNSCVAVMDGKTPKVIENAEGMRTTPSIVAFSDDGERLVGQPAKRQAVTNPERTIFAVKRLIGRRYDDPTVEKDKQLVPYKIAKAGNGDAWVEADGKTYSPSQISAFTLQKMKETAEAHLGQKVDQAVITVPAYFNDAQRQATKDAGKIAGLEVLRIINEPTAAALAYGLDKSKAGTIAVYDLGGGTFDVSVLEIGDGVFEVKSTNGDTFLGGEDFDMRLVNYLADEFQKEQGINLRNDKLALQRLKEAAEKAKIELSSTTQTEINLPFITADQSGPKHLTMKLTRAKFEALVDDLVQKTIEPCRKALKDAGLTAGEIGEVVLVGGMTRMPKVQEVVKQLFGKEPHKGVNPDEVVAIGAAIQAGVLQGDVKDVLLLDVTPLSLGIETLGGVFTRIIDRNTTIPTKKSQVFSTAEDNQNAVTIRVFQGEREMAADNKILGQFDLMGIPPAPRGMPQIEVTFDIDANGIVNVSAKDKATGKEQQIRIQASGGLSEADIEKMVKDAEANAAEDKKRREAVDAKNQADSLVHSTEKALTEHGSKIEESERRAIEDAVSDLKEALKGDDAEAIKAKTNTLAQASMKLGEAMYKQQAEADAAKDAAKDDVVDAEFTEVDDDKKSA |
| 3403 | sp|O32465|DNAJ\_BUCAI | MAKKDYYQILGIPKSAEEREIKKAYKKLAMKYHPDRNQGDKTAEGKFKEIKEAYEILINEEKRSAYDQYGHAAFENGQSNSTYSTFTNSADFSDIFGDVFGDIFGGNRTQRAKKGADLCYNMEITLEEAVKGIKKEIQIPTLQKCKTCYGSGTRTGTKPRSCSTCHGKGQIHIRKGFFTVQQSCPTCHGKGTIITDPCNLCHGQGRVETYKILSVKIPPGLDTNDRIRLNNEGEAGANGAQSGDLYVQITVKKHPIFEREGNNLYCEVPINFTMAALGGEIEVPTLDGRVKLKIPYETQSGKLFRIRGRGVKSVQNRNQGDLLCRVVVETPVNLNEQQKNLLHELGNSFHGFRGEKNSPRSKRFFDGVKRFFDDLTR |
| 3404 | sp|Q97BG9|DNAJ\_THEVO | MAKDYYKILGVDRNASEEDIKKAFRELAKKWHPDLHPDNKAEAEEKFKEISEAYEVLSDPEKRRIYDQTGSVDFGGGGSNFNWDNFTHFSDINDIFNEIFGGNFGSDFFSGFGNRQSTRNIDLDMYTNLDISLEEAYYGTEKRIKFRRNAICPDCKGTGAKNGKLITCPTCHGTGQQRVVRGQGFFRMVTVTTCNTCGGKGRIPEEKCPRCNGTGTIVVDEDITVKIPRGATDNLRLRVSGKGQSYDGRTGDLYVILRIKQDKNLQRINDDLLLDQKINFGQAALGADIPIQIFNEKYNLKIPEGTQPGDVIKIKGAGMPHLNGHGSGDLLVRINVEVPKRLTAKQRELIRELFDIKENHKSWFH |
| 3405 | sp|A8YVQ3|DNAK\_LACH4 | MSKVIGIDLGTTNSAVAVLEGKEPKIITNPEGNRTTPSVVAFKDGEIQIGEVAKRQAITNPNTIVSIKRHMGEADYKVKVGDKEYTPQEISAFILQYIKKFSEDYLGEKVTDAVITVPAYFNDAQRQATKDAGKIAGLNVQRIINEPTASALAFGLNKDQDEKVLVYDLGGGTFDVSVLQLGDGVFQVLSTNGDTHLGGDDFDNRIMDWLIKNFKDENGVDLSKDKMAMQRLKDAAEKAKKDLSGVSSTHISLPFISAGEAGPLHLEADLTRAKFDELTSDLVEKTKVPFDNALKDAGLTVNDIDKVILNGGSTRIPAVQKAVKEWAGKEPDHSINPDEAVALGAAIQGGVISGDVKDIVLLDVTPLSLGIETMGGVFTKLIDRNTTIPTSKSQIFSTAADNQPAVDIHVLQGERPMAADDKTLGRFELTDIPPAPRGVPQIQVTFDIDKNGIVNVSAKDMGTGKEQKITIKSSSGLSDEEIKRMQKDAEEHAEEDKKRKEEVDLRNEVDQLIFTTDKTLKDTKDKLSDSDRKPVEDALEALKKAQKDNNLDEMKEKKDALSKAAQDLAVKLYQQNGGAQGAAGQAGPQGGNNGGAQDGEFHKVDPNK |
| 3406 | sp|A8FMW6|DNAJ\_CAMJ8 | MEISYYEILEITQSADKETIKKAYRKMALKYHPDRNQGDKEAEDKFKLVNEAYEVLSNDEKRAIYDRYGKDALKGGGFGSSSSGFGGFEDLGDIFSSFFGEGFGSSSRRRKSSNDEKIPSDFIVNLKLSFKEAVFGCKKNIDFTYKCSCKTCNGTGAKDGKLQTCPKCQGRGQVGVSQGFITFAQTCPDCQGSGEKASEKCSDCKGLGYNESKDSVELNIPEGIDTGMKLRVNAKGNILKNGTRGDMYVKIIAAEDDTFVRDDDDIYIEFPVFFTQAILGQSIKVPTIRGEATLNLPKGAKDGQRFVLEKEGVKDVHSSRIGNQIVQISIKFPTSLNDEQKELLEKLSESFGIKDGMHQEQKGLFEKIANWFKS |
| 3407 | sp|Q8XW41|DNAJ\_RALSO | MAKRDYYEVLGVGKNASDDEIKKAYRKLAMKYHPDRNPDSKEAEEKFKEAKEAYEMLSDADKKAAYDQYGHAGVDPNMAGGFGAGAQGFGGFAEAFGDIFGDIFGQAQQGGRRGAGPQMYRGADLRYSMEITLEQAAHGYDTQIRVPHWDECDHCHGKGAEPGSSVETCPTCHGAGQVRVSQGFFTMQQTCPKCHGNGKYIPKPCSKCHGQGKVKSQKTLEVKIPAGIDEGMRIRSSGNGEPGINGGPPGDLYVEIHIKAHSVFERDGDDLHCQMPISFAVAAMGGDIEVPTLGGRVTFNVPEGTQAGKTFRLRGKGIKGVRSGYAGDLYVHVVIETPVRLTEHQRELLRQFDKSVHEGGSRHSPQEQSWLDKVKNFFSS |
| 3408 | sp|A5IDK8|DNAK\_LEGPC | MAKIIGIDLGTTNSCVAVMEGDKPKVIENSEGHRTTPSIVAFTDDNEILVGQSAKRQSVTNPEKTLFAIKRLIGRRFDDPIVQKDIKMVPYKIMKADNGDAWVRVKDQDKAPPQISAEVLRKMKKTAEDYLGEEVKEAVITVPAYFNDSQRQATKDAGRIAGLEVKRIINEPTAAALAYGMDKKRGDSVIAVYDLGGGTFDISIIEIAEVDGEHQFEVLATNGDTFLGGEDFDLALIEYLASEFKKDTGIDLHNDPLALQRLKEAAEKAKIELSSAQQTDVNLPYITADASGPKHLNIKLTRAKLESLVEKLVERTIEPCKTALKDAGLTVSQINEVILVGGQTRMPLVQKTVEEFFGKEPRKDVNPDEAVAVGAAIQAAVLSGEVKDILLLDVTPLSLGIETMGGVMTKLIEKNTTIPTKATQVFSTADDNQTAVTVHVLQGEREQASANKSLGRFDLRDIPPAPRGVPQIEVTFDIDANGILNVSAKDKATGKAQSIVIKASSGLSEEEVAAMVKDAQSHAEEDKKFKEMAELRNQADSLIHSCEKSMKDLADELSEDEKKGIETAISELKEAVQGTDKARIEDKLKVLTDASAKMAERIYAKKSSEGQAAQGQTQSQESTKPAEEGVVDAEFEEVKEEDKK |
| 3409 | sp|Q4UJK6|DNAJ\_RICFE | MSQDYYQILGVSKTASQADLKKAYLKLAKQYHPDTTDAKDAEKKFKEINSAYDVLKDEQKRAAYDRFGHDTFQYQQSRGGGGNHGGFHPDINDIFGDFFSDFMGGGRRKPTSSKARGSDLKYDLTINLEEAFHGIEKNISFSSEVKCDTCHGTGSEKGETVTTCDACGGVGATRIQQGFFTIEQACHKCQGNGQIIKNPCKKCHGMGRYHKQRNLSVNIPAGVENATRIRHPGEGEAGIRGGNSGDLYVDIAIKPHDIYKVDGANLHCKLPISFVNAALGGEIEVPIIEGGKVNLTIPAGTQNGDQLRLRSKGMSKMRSTIRGDMLTHIHVEVPKNLSKRQRELLEEFKKESINEKENDGSFFNKMKSLWS |
| 3410 | sp|Q9M8R4|DJ1D\_ARATH | MANSRTVLILCGDYMEDYEVMVPFQALQAFGITVHTVCPGKKAGDSCPTAVHDFCGHQTYFESRGHNFTLNATFDEVDLSKYDGLVIPGGRAPEYLALTASVVELVKEFSRSGKPIASICHGQLILAAADTVNGRKCTAYATVGPSLVAAGAKWVEPITPDVCVVDGSLITAATYEGHPEFIQLFVKALGGKITGANKRILFLCGDYMEDYEVKVPFQSLQALGCQVDAVCPEKKAGDRCPTAIHDFEGDQTYSEKPGHTFALTTNFDDLVSSSYDALVIPGGRAPEYLALNEHVLNIVKEFMNSEKPVASICHGQQILAAAGVLKGRKCTAYPAVKLNVVLGGGTWLEPDPIDRCFTDGNLVTGAAWPGHPEFVSQLMALLGIQVSF |
| 3411 | sp|P39071|DHBA\_BACSU | MNAKGIEGKIAFITGAAQGIGEAVARTLASQGAHIAAVDYNPEKLEKVVSSLKAEGRHAEAFPADVRDSAAIDEITARIEREMGPIDILVNVAGVLRPGLIHSLSDEEWEATFSVNSTGVFNASRSVSKYMMDRRSGSIVTVGSNAAGVPRTSMAAYASSKAAAVMFTKCLGLELAEYNIRCNIVSPGSTETDMQWSLWADENGAEQVIKGSLETFKTGIPLKKLAKPSDIADAVLFLVSGQAGHITMHNLCVDGGATLGV |
| 3412 | sp|Q9L7Z1|DNAK\_VIBPR | MGKIIGIDLGTTNSCVAVLDGDKPRVIENAEGERTTASVIAYTDGETLVGQPAKRQAVTNPTNTLFAIKRLIGRRFEDEEVQRDIEIMPYKIVKADNGDAWVEAKGQKMAAPQVSAEVLKKMKKTAEDFLGEEVTGAVITVPAYFNDAQRQATKDAGRIAGLEVKRIINEPTAAALAYGLDKKGGDRTIAVYDLGGGTFDISIIEIDEVEGEKTFEVLATNGDTHLGGEDFDNRLINYLVDEFKKEQGIDLKTDPLAMQRVKEAAEKAKIELSFTSQTDVNLPYVTADATAPKHMNVKVTRAKLESLVEDLVQRSLEPLKVALADADLSVNDITDVILVGGQTRMPMVQAKVAEFFGKEARRDVNPDEAVAMGAAVQGGVLAGDVKDVLLLDVTPLSLGIETMGGVMTKLVEKNTTIPTKANQVFSTAEDNQSAVTIHVLQGERKQAMYNKSLGQFNLEGIQPAPRGMPQIEVTFDLDADGILHVSAKDKQTGKEQKITIQASGGLSDDEIEKMVQEAEANKEADKKFEELATARNQADQMIHGTRKQVEEAGDALPAEDKEKIEAAVSELEDARKGDDKEAIDAKVQALMTASQKLMEIAQQQAQAQAAQGGDEAAQSKDDDVVDAEFEEVKDDKK |
| 3413 | sp|C1CQ18|DNAK\_STRZT | MSKIIGIDLGTTNSAVAVLEGTESKIIANPEGNRTTPSVVSFKNGEIIVGDAAKRQAVTNPDTVISIKSKMGTSEKVSANGKEYTPQEISAMILQYLKGYAEDYLGEKVTKAVITVPAYFNDAQRQATKDAGKIAGLEVERIVNEPTAAALAYGLDKTDKEEKILVFDLGGGTFDVSILELGDGVFDVLSTAGDNKLGGDDFDQKIIDHLVAEFKKENGIDLSTDKMAMQRLKDAAEKAKKDLSGVTSTQISLPFITAGEAGPLHLEMTLTRAKFDDLTRDLVERTKVPVRQALSDAGLSLSEIDEVILVGGSTRIPAVVEAVKAETGKEPNKSVNPDEVVAMGAAIQGGVITGDVKDVVLLDVTPLSLGIETMGGVFTKLIDRNTTIPTSKSQVFSTAADNQPAVDIHVLQGERPMAADNKTLGRFQLTDIPAAPRGIPQIEVTFDIDKNGIVSVKAKDLGTQKEQTIVIQSNSGLTDEEIDRMMKDAEANAEADKKRKEEVDLRNEVDQAIFATEKTIKETEGKGFDAERDAAQAALDDLKKAQEDNNLDDMKAKLEALNEKAQGLAVKLYEQAAAAQQAQEGAEGAQATGNAGDDVVDGEFTEK |
| 3414 | sp|Q6G8Y7|DNAK\_STAAS | MSKIIGIDLGTTNSCVTVLEGDEPKVIQNPEGSRTTPSVVAFKNGETQVGEVAKRQAITNPNTVQSIKRHMGTDYKVDIEGKSYTPQEISAMILQNLKNTAESYLGEKVDKAVITVPAYFNDAERQATKDAGKIAGLEVERIINEPTAAALAYGLDKTDKDEKVLVFDLGGGTFDVSILELGDGVFEVLSTAGDNKLGGDDFDQVIIDYLVAEFKKENGVDLSQDKMALQRLKDAAEKAKKDLSGVSQTQISLPFISAGENGPLHLEVNLTRSKFEELSDSLIRRTMEPTRQAMKDAGLTNSDIDEVILVGGSTRIPAVQEAVKKEIGKEPNKGVNPDEVVAMGAAIQGGVITGDVKDVVLLDVTPLSLGIEILGGRMNTLIERNTTIPTSKSQIYSTAVDNQPSVDVHVLQGERPMAADNKTLGRFQLTDIPPAERGKPQIEVTFDIDKNGIVNVTAKDLGTNKEQRITIQSSSSLSDEEIDRMVKDAEVNAEADKKRREEVDLRNEADSLVFQVEKTLTDLGENIGEEDKKSAEEKKDALKTALEGQDIEDIKSKKEELEKVIQELSAKVYEQAAQQQQQAQGANAGQNNDSTVEDAEFKEVKDDDKK |
| 3415 | sp|Q8VZG1|DGK3\_ARATH | MDSPVSKTDASKEKFVASRPSTADSKTMRGCGLANLAWVGVDKVELRQRLMMPEYLRLAMRDCIKRKDSSAIPDHLLLPGGAVADMAPHAPMVVFINPNSGGRHGPVLKERLQQLMSEEQVFDLTEVKPHEFVRYGLGCLEKVAAEGDECAKECRARLRIMVAGGDGTVGWVLGCLGELNKDGKSQIPPVGVIPLGTGNDLSRSFGWGGSFPFAWRSAVKRTLHRASMGPVARLDSWKILVSMPSGEVVDPPYSLKPAEENELDQGLDAGIDAPPLAKAYEGVFYNYLSIGMDAQVAYGFHHLRNTKPYLAQGPISNKIIYSSFGCSQGWFCTPCVNDPGLRGLRNIMKIHIKKVNCSQWEEIAVPKNVRSIVALNLHSYGSGSHPWGNLKPDYLEKRGFVEAHCDDGLIEIFGFKQGWHASFVMAELISAKHIAQAAAVRFELRGGDWRDAFLQMDGEPWKQPMSTEYSTFVEIKKVPYQSLMINNE |
| 3416 | sp|P20805|GLNA2\_FRAAL | MSYQAEYIWIDGTEPEPLMRSKTRIIKDGKEPEIWGFDGSSTNQAPGSNSDCVLRPVFETPDPIRGGDNRLVLCEVQLTDFTPPTNTRAAALGVAERYADMSPMFGIEQEYTFFKDGRPYGWPEVGYPAPQGPYYCGVGGSKMPGRQIVERHTQACLDAGLAIEGTNAEVMMGQWEFQIGVLPAPAIGDQIWLGRWLLHRIAEDYGVEVSFAAKPIPGDWNGAGAHTNFSTKQTMEGWDAIVTCCEALGTRVTEHVTHYGKGIEDRLTGKHETAPWNKYSWGASDRGASVRIPWAVEKAKKGWLEDRRPNANMDPYLVTALMIDTCCSALAGDKPTLFVPSQTTPAPAEASV |
| 3417 | sp|Q5NAZ7|GH33\_ORYSJ | MLEKKATRSTRVDGVSGEAVIEEFERVTRDAANVQRETLRRILAENGGVEYLRGLGLAGATDPATFRARVPLATHADLEPYIDRIADGDASPVLTAKPATSISLSSGTTQGKRKYLLFNEELVKSTMQIYRISYAFRNREFPVENGKALQFIYSSRETRTKGGLTATTATTNVYRSEEFKATMRDIQSQCCSPDEVIFGPDFAQSLYCHLLAGLLAAGDVQIVSATFAHSVVLAFQTFERAWEDLCADIRRGEVSPSRVTSPAVRRAMAALLAAPNPGLADEVARKCAALSNWYGVIPALWPNARYVYGIMTGSMEHYVKKLRHYAGGLPLVAAEYGASEGWVGANVEPGTPPERATFTVLPDIAYFEFIPLKPVAGDGGYAEAEPVGLTEVAAGELYEVVMTTFAGNTRSSSSCMTLVAYYYLQSKKWMNICRFCISVHETSRNLVTCTFAATGHIMFAQK |
| 3418 | sp|Q3KLV8|GRPE\_CHLTA | MTETPNTSSEEIQTSEPSPDNELQVLQQENANLKAELQEQNDRYLMALAEAENSRKRLQKERTEMMQYAVENTLMDFLPPIESMEKALGFASQASEEVKNWAIGFQMILQQFKQIFEEKGVVEYSSKGELFNPYLHEAVEIEETTTIPEETILEEFTKGYKIGDRPIRVAKVKVAKLPAKGNSDSNEEKE |
| 3419 | sp|A9N8H5|GRPE\_COXBR | MSSKNNPESETKAKNKWEKVMEAEEEQEEGRGDGSQEMEPHREGLEFPSREKLEGQLTRMERKVDEYKTQYLRAQAEMDNLRKRIEREKADIIKFGSKQLITDLLPVADSLIHGLESPASEDPQVKSMRDGMSLTLDLLHNTLAKHGVQVINPNPGDPFDPALHEAMSVQAVPDAKPDTIIQVLQKGYQLNGRVLRAARVIVAG |
| 3420 | sp|Q835R8|GRPE\_ENTFA | MSKKEEKQEELQEEMEAVDAAGVSEVEVEATEIENLKAELSEMEDKFLRARAEIANMSNRNKNERELLVRYRSQDLGKKILPSIDNLERAMAIEVSDEQGESLKKGISMVLESITVALKEEGIEEIPAMGETFDPNLHQAVQTVPASEETPADTIVEVLQKGYKLQDRVLRPSMVIVAQ |
| 3421 | sp|P80240|GREA\_BACSU | MAQEKVFPMTAEGKQKLEQELEYLKTVKRKEVVERIKIARSFGDLSENSEYDSAKEEQAFVEGRVTTLENMIRNAKIIEDDGGSNVVGLGKTVTFVELPDGDEESYTIVGSAEADPFEGKISNDSPIAKSLLGKKVDEEVTVQTPGGEMLVKIVKIS |
| 3422 | sp|A5VNA6|GRPE\_BRUO2 | MADEKNKPENPDLDQRDINNPRDREALKQAADDFLKARRAEARAEAAADEAEGEVDETANRIAVLEADNTELKDQMLRVAAEMENLRKRTQRDVQDARAYAITNFARDMLSVSDNLRRALDTIPADALEADSNLKSLSEGVEMTERAMLLALERHGVKKLEPEGQKFDPNFHQAMFEVPNPDLPNNTVVQVVQAGYAIGDRVLRPAMVGVSKGGPKVSAENGASTSEDNA |
| 3423 | sp|Q1BYX5|GRPE\_BURCA | MENTQENPTTPSAEDIGSEKQAAQGAAPAAEAADAALAEAQAKVAELQESFLRAKAETENVRRRAQDDVSKAHKFAIESFAEHLLPVLDSLEAAVNDTSGDIAKVREGVELTLRQLTSALEKGRVVAINPIGEKFDPHQHQAISMVPAEQEPNTVVSVLQKGYTIADRVLRPALVTVAQPK |
| 3424 | sp|B3QTT2|GRPE\_CHLT3 | MSEEVKNSVETEENKASKDNATQAPNPTENHNTAQETEKAENSEKTESATQENESLDKLKKDVTNYREQLLRTVADFENLKKQKEREVASVRKFADESLIKELLPVLDDIERVLVNASKFLQASPEAQSYVDGVKLIQQNMMKVFEARGLKRIEAVGTPFDVHLHEALSQMEKEGAEPDTVIQEFAPGYTLNDKVVRHSKVIVSK |
| 3425 | sp|P63189|GRPE\_STAAM | MTNKDESVEKNTESTVEETNIKQNIDDSVEQAEESKGHLQDEAIEETSDENVIEEIDPKDQKINELQQLADENEEKYLRLYAEFENYKRRIQKENEINKTYQAQRVLTDILPAIDNIERALQIEGDDETFKSLQKGVQMVHESLINALKDNGLEVIKTEGEAFDPNIHQAVVQDDNPDFESGEITQELQKGYKLKDRVLRPSMVKVNQ |
| 3426 | sp|B2K8E3|GRPE\_YERPB | MSSKEQKTPNEQVSEEMENTAEQQVEATQETGECVDPRVAELEVQLSDALQRERESLLRAKAEVENIRRRTELDVEKAHKFALERFSSELLPVIDNLERALDTADKTNTELTSMIEGVELTLKSLLDAVGKFGIEVVGETHVPFNPEVHQAMTMLESADHEPNHVMMVMQKGYTLNGRLLRPAMVAVSKAKS |
| 3427 | sp|Q3B0Y4|GRPE\_SYNS9 | MSGDASTSAQDQNVESNDVPAIPDVDAGTPIDPVVEETPTLDTEIDPANRLQQLEQELNSLKQEHEAVQSQYMRIAADFDNFRKRQARDQDDLRQQLVCSTLTEILPVVDNFERARQQLNPEGEEAQALHRSYQGLYKQLVDVLKQQGVARMEVVGQEFDPTLHEAVLREENQEHAEDIVCEELQRGYHRDGRVLRHAMVKVSMGPGPESSSDAASEQPQEGDA |
| 3428 | sp|Q59978|GRPE\_SYNY3 | MNEDQVSLENQTNPVSPEASDVPAVTPEESPQPTDAVLGEPSGEQSEDPRIGAATETEGGPLEQEKSSEEIIAILQKDLASHRQELAEQSEQLDSIKKRYVALAAEFDNFRKRTQREKEEQAKLIKGRTITELLPVVDNFERARTQIKPNSDGENQIHKSYQGVYKNLVDSLKGLGVAPMRPEGKPFDPKYHEAMLREPTAEYPEDTVIEELVRGYLLDDIVLRHSMVKVAVAPEEGAEVVNGEAGANP |
| 3429 | sp|Q9WZV4|GRPE\_THEMA | MSEKEKKELTQECEELKEKYKELEEYAKRLKAEYENYREEVAREKRELIKNANEYLISKLIPVLDDFERALNQGEKGDAFYEGVKMIYKKLLNVLEKEGLTKIHVGEKFDPFEHEAVERVETEDVEEYTILEVVESGYKFHGKVLKPAKVKVAVKPRKKEERKVEEPSDKKE |
| 3430 | sp|C3LTA4|GRPE\_VIBCM | MSNEEIKNKDEQLQQDAVETEAEVVGTDADIDWNQAADEIDEKEAKIAQLEAALLVSEERVKEQQDSVLRARAEVENMRRRSEQEVDKARKFALSRFAEELLPVIDNLERAIQAADGEVEAIKPLLEGVELTHKTFVDTIAKFGLKEINPHGEVFNPEFHQAMSIQESAEHEPNTVMFVMQKGYELNGRVLRPAMVMVSK |
| 3431 | sp|Q9C7A2|ITN1\_ARATH | MAASSYVDGERDMEKGGMILLQSSENQNPMIDPSPTPSPSATATAPALVLSNSGKRMDQAGKKKYVKQVTGRHNDTELHLAAQRGDLAAVQQILKDINSQMEGILSGEEFDAEVAEIRASIVNEVNELGETALFTAADKGHLDVVKELLKYSSRESIAKKNRSGYDPLHIAAIQGHHAIVEVLLDHDATLSQTFGPSNATPLVSAAMRGHTEVVNQLLSKAGNLLEISRSNNKNALHLAARQGHVEVIKALLSKDPQLARRIDKKGQTALHMAVKGQSSEVVKLLLDADPAIVMQPDKSCNTALHVATRKKRAEIVELLLSLPDTNANTLTRDHKTALDIAEGLPLSEESSYIKECLARSGALRANELNQPRDELRSTVTQIKNDVHIQLEQTKRTNKNVHNISKELRKLHREGINNATNSVTVVAVLFATVAFAAIFTVPGGDNNDGSAVVVGRASFKIFFIFNALALFTSLAVVVVQITLVRGETKAEKRVVEVINKLMWLASMCTSVAFLASSYIVVGRKNEWAAELVTVVGGVIMAGVLGTMTYYVVKSKRTRSMRKKVKSARRSGSNSWHHSDFSNSEVDPIFAI |
| 3432 | sp|O94142|KO1\_GIBFU | MSKSNSMNSTSHETLFQQLVLGLDRMPLMDVHWLIYVAFGAWLCSYVIHVLSSSSTVKVPVVGYRSVFEPTWLLRLRFVWEGGSIIGQGYNKFKDSIFQVRKLGTDIVIIPPNYIDEVRKLSQDKTRSVEPFINDFAGQYTRGMVFLQSDLQNRVIQQRLTPKLVSLTKVMKEELDYALTKEMPDMKNDEWVEVDISSIMVRLISRISARVFLGPEHCRNQEWLTTTAEYSESLFITGFILRVVPHILRPFIAPLLPSYRTLLRNVSSGRRVIGDIIRSQQGDGNEDILSWMRDAATGEEKQIDNIAQRMLILSLASIHTTAMTMTHAMYDLCACPEYIEPLRDEVKSVVGASGWDKTALNRFHKLDSFLKESQRFNPVFLLTFNRIYHQSMTLSDGTNIPSGTRIAVPSHAMLQDSAHVPGPTPPTEFDGFRYSKIRSDSNYAQKYLFSMTDSSNMAFGYGKYACPGRFYASNEMKLTLAILLLQFEFKLPDGKGRPRNITIDSDMIPDPRARLCVRKRSLRDE |
| 3433 | sp|A9WGB5|LON\_CHLAA | MNDETLREQTTAESEETSPTTPSPEPEVVETLPLIPLEGAVVFPYIVVSLTLDELGSASAEAAAREGRQVLLAARRPDAPADAPITDQLFNVGVVARIEQLGTLPNGASGVVVRGLVRAVLGEAVQTTPYLRFRFTRRPDVFERTPELEQLMVEVHAAIDAVLELRPGVTQEIRNFVRSIDDPGHLADNTGYSPDYTFAERQELLETFDVSERLRKVLMFYRKQFALLEVQAKLRQEVQESAARQQREFYLRQQLRAIQKELGEDTSEAAELDDLRQKLAAADLPEVARKEADRELSRLARINASSPEYQMVRTYLEWLAELPWNKYTGQPIDIAFARQVLDEDHHGLQKVKERILEYLAVKQRRAALGEENLRANREPILAFVGPPGVGKTSLGQSIARALGRSFVRMSLGGVRDEAELRGFRRTYIGSQPGRIIQELRRAGTADPVILLDEIDKLGIDYRGDPAAALLEVLDPEQNHTFTDHYLNLPFDLSRVLFLATANTWDTVPPALRDRMEVIELSGYIEDEKVQIAQIHLVPRQLRANGLRPEEAVVTEDAIRCIINEYTREAGVRNLERSIGAVLRKVARRLSEGEIDPANTPFVVDAAFVRAALGRPRFTNETRERIDQPGVAIGLVWTPVGGDIIFVEASAVEGKKELTITGQLGEVMRESAEAALTYVRSRARSLGIEPDFFETHAIHIHVPAGAVPKDGPSAGITMATALASAATGRLVRDDIAMTGEISLRGRVLPIGGIKEKALGAHRAGIRTVILPRRNLIDLDDLPPAVSAEMTFIPVDTLDEVLSIALLPPATTTDTLTVAQRSDVLTPAS |
| 3434 | sp|P37223|MAOX\_MESCR | MGGSNALNEMTNGSDGITGGVADVYGEEFATQDQLVTPWSFSVACGHSLLRDPQHNKGLAFTEKERDAHFLRGLLPPVVLSQELQEKKFLTTLRQYQVPLQKYMAMMDLQERNEKLFYKLLVDHVEELLPLVYTPTVGEGCQKYGSIFRRPQGLFISLKDKGRILELLRNWPEKKIQVIVVTDGERILGLGDLGCQGMGIPVGKLSLYSALGGVCPSACLPITLDVGTNNQKLLDDEFYIGLKQKRATGEEYAEFVQEFMSAVKQNYGEKILVQFEDFANHNAFELLEKYRTTHLVFNDDIQGTASVVLAGLIASLKLLGGTLADHKFLFLGAGEAGTGIAELIALEMSKKTKAPVEQMRKKIWLVDSKGLVVSSRKETLQQFKLPWAHEHEPITTLIDAVQAIKPTVLIGTSGKGKQFTKEVVEAMANINAKPLILALSNPTSQSECTAEEAYTWSQGHAIFASGSPFDPVEYEGRTFVPGQANNAYIFPGFGLGLIMCGAIRVHDDMLLAASEALASQVTGEHFIKGLIYPPFKDIRKISAHIAAGVAAKAYELGLASRLPQPADLVKFAESCMYNPTYRSFR |
| 3435 | sp|P80513|MANF\_BOVIN | MWATHGLAVALALSVLPASRALRQGDCEVCISYLGRFYQDLKDRDVTFSPASIEKELIKFCREARGKENRLCYYIGATEDAATKIINEVSKPLSHHIPVEKICEKLKKKDSQICELKYDKQIDLSTVDLKKLRVKELKKILDDWGETCKGCAEKSDYIRKINELMPKYAPKAASSRTDL |
| 3436 | sp|Q9N3B0|MANF\_CAEEL | MSRLVLLISLVIVVASAAAPQCEVCKKVLDDVMAKVPAGDKSKPDAIGKVIREHCETTRNKENKFCFYIGALPESATSIMNEVTKPLSWSMPTEKVCLEKLKGKDAQICELKYDKPLDWKTIDLKKMRVKELKNILGEWGEVCKGCTEKAELIKRIEELKPKYVKEEL |
| 3437 | sp|Q9N272|MK13\_PANTR | MSLIRKKGFYKQDVNKXXXELXKTYVSPTHVGSGAYGSVCSAIDKRSGEKVAIKKLSRPFQSEIFAKRAYRELLLLKHMQHENVIGLLDVFTPASSLRNFHDFYLVMXFMQTDLQKIMXMEFSEEKIQYLVYQMLKGLKYIHSAGVVHRDLKPGNLAVNEDCELKILDFGLARHADAEMTGYVVTRWYRAPEVILSWMHYNQTVDIWSVGCIMAEMLTGKTLFKGKDYLDQLTQILKVTGVPGTEFVQKLNDXAAKSYIQSLPQTPRKDFTQLFPRASPQAADLLEKMLELDVDKRLTAAQALTHPFFEPFRDPEEETEAQQPFDDSLEHEKLTVDEWKQHIYKEIVNFSPIARKDSRRRXGXKL |
| 3438 | sp|Q5MBR6|NCED2\_ORYSJ | MEVPIAAMTFAHPANVMTLASRQPKSKRSHISPATTAHRNLQTRLAHHHHATPASLPMAICNTVDKVINRFIDLPEQRPTVDPRRVLSGNFAPVDELPPTSCHVIRGSIPSCLAGGVYIRNGPNPQHRLPQRTHHLFDGDGMLHSLLIPSASSTLLSEPVLCSRYVHTYKYLLERETGGPVLPNFFAGFHGVAGLARAVVMIARVLAGQINLNKGFGLANTSITLFADCLYALCESDLPYSMHINPANGEVTTLGRCDFGGDLSFRMTAHPKKDPVTMELFAFRYNVFQPFITYFWFDRAGSKVADVPILSLQKPSVMHDFAITERYAIFPESQLIVNPMDMVMRGSSLVGLDRTMVPRIGVLPRYAKDESDMRWFEVPRFNMLHTTNGWEEADGEEIVLVAPNILSIEHMLGNMELMRARVDMVRINLCTGDVSCTALSPESLEFGVIHQGYVGRKNRYGYFGVSGPLPKIKGIRKLDFDLVGSGDCTVGRRDFGLGCFAGEPFFVPDNIDGYGNEDSGYVVCYTHEEDTGESWFVVMDAKSPELDIVAEVQLPSRIPYGFHGIFVKQAELLAQQ |
| 3439 | sp|P42759|ERD10\_ARATH | MAEEYKNTVPEQETPKVATEESSAPEIKERGMFDFLKKKEEVKPQETTTLASEFEHKTQISEPESFVAKHEEEEHKPTLLEQLHQKHEEEEENKPSLLDKLHRSNSSSSSSSDEEGEDGEKKKKEKKKKIVEGDHVKTVEEENQGVMDRIKEKFPLGEKPGGDDVPVVTTMPAPHSVEDHKPEEEEKKGFMDKIKEKLPGHSKKPEDSQVVNTTPLVETATPIADIPEEKKGFMDKIKEKLPGYHAKTTGEEEKKEKVSD |
| 3440 | sp|Q54WR2|GCN1\_DICDI | MNEENPSSSIILDDQQQQDSFYSEIKELEKSIQSNKLSERKNTLTRINSIGKHELSTQENDATTTTTTTTVDLEEKLKVLIYLYFTSYSIGPDSQWIFSLVQSLKQLFKDISSATNTSLVTDELKINIVKFTLREIGRLAKLLPTNKRSKYVPQNTLMSFSLVLLNYFIDQIQSNSDLTTLLFAAQELLYRELTLQHMKNNQPIFNQILNKNKILTFYQNIVTKDSSNKSFFIVYFLLRNFTDQSNKQKEQDNTFKINDLLNIYNKTVIGSSQQKIEEHKFFKRLFNQLTNEDLQSIILPPLSRHIKRDQDQVFKILIFILENLSSDFNVIDLSSLLKSMLLPMLLPVIQSTISIEENRKLLKKTFTLIIERSKDTKLISSMITDDLLKTLSVAGNPSQKLIIISIISSIISTKNFIERLSLTTEKLQLSKQILQSISIYLEKELNKDNRNKGFKLLGKVMKMVEELPEQTIKIITNSLKNDDDIIKGQVILSLSKSLGPEANGTNKKVIQIINGFTETINTILKNVKNAKTCDPSTTTASLHYMLSLITTTGVPKNDIFTKYSTDKTTISNLYASTSFLHTDGFIQRTSKKDHAIDLLLTLFLRVKSFPSIKLNDKSPLYSSVLNCLLHSQWSVSKHSAIKIRSILSRNDSVDIDYPLLSNQLLIEFSTILFDDSLIITPQIINSNVESTTTTTTTISNKKNYLIAFRSILSKNIKSELYPMLSLICYHPFINYNWKRVSSLIQNDVNTTLSSNAIEISKYIFEKGLNQKKNKSYQQAFQQAINGLMNYNVPLLNEELVKLMVKALSYEPVLAITQQQWSIYHTLPTELFVEKQEQLVESRNDRKVKPKTAEEQRDEESRKRIEEKKKIQSGELEKQEKERQKQLAAQAVIRKDVQDVIDRLHLAMDTCQTMAKSSSNPQFVGEFMSPIIVALLQLMKHEITNHQFTQVFEKLICCVPSRFKLDRSFARHYIYIINNIYYRPTLSEIQILGFIQKILTHIRESIAKEALSGFAFNYFWPIIKNGLETTISFTIQEISMEIIQKHTAQGQAYPRGSMISSLIIVVSTNSRLEAQARNTIFQLIEGVETSDIGELMEGIISKHVQVRSICLQAIEKIPSIYSPSFVWEDKYIGSLWFARFDNHDANTSALAEKIWLATNQPTQLPEDFMKLLSDSTFNVNSETRKINALAIKEAATCHTHMIPEIVDNLFEIYEQNYPDEIRETPITSKFRISVATALSGLGNAIVEPEVLKSLFTKIIERGLFDPKEEVVQEFVSTGMSIINQQGVQFSGELLATFEAFLARPDNGTGEEDSIRANVVVYMGALAKHMDASNPKVSIVIDKLVDALSIPSESVQVGISKCIAQLIPSFKKQGDRLIPMLLEKLKNSSGNYADRRGAAFGLAGSVKGLGIGSLKNYSILDTLQSYIEDKKHPTSRQGALFAFECLCNTIGRVFEPYIIHILPKLLVCFGDNVSEVRDATADTAKAIMSQLSGHGVKIVLPALLKALDDRSWRTKEGSIELLGAMAFCAPKQLSSCLPTIVPKLTYVLNDTHTKVQEAAKEALSHIGSVIRNPEIQIHVPLLLQTYDDPEIHSKELLENLLSTNYVHTIDPASLSLLLPILERTLKERSSELKKMSCQIVGNLCSLTEPKDLVPYLNILMPVMKTVLLDPIPEVRAICARALGLLVRGMGEENFSTLIPWLLETVKSDQGAVERSGAAQGLSEVLASLDISRFNSLINELLAMTNSPRPHVREGILSIFIFTPISLGDLFLPYLPKVLPQVLKGLADDSDPVREVCMRCGQSIVLQFAVTGIEVIVPALEKVLFHENWRIRLSCVQLFGDLLFKLAGTTAQEVQSNNSSYNAKDDDDDEPGSSGNDIQKILGKERLGRILSSLYMMRFDNNSSVRQKVLLIWKYIVSNTPKTLREILPTLIEMIISSIGSNNVEKRQISAKTLGDIVSKLSDRILPEILPILERGLRSELEETRQGVCIGLSEVISSAKTQLLPYLSSVVTCITKALCDPLIDVREAAAKAFDHLYHTFGSKASNEILPQLIQLLDNSNNKDLAGYALDGLRQVILVRSSIVLPVLIPKLLSRPISTSNVTALSSLAADAGEGLYVHLSTIIPSLIESFTNPNTISNAKEIKEAAVSICKSIDEQGWDTLIGLLIEQTEIRLPNIRLGACELIGEFYNGNTMVTEYPEELLLSLLSLFNDPDALVQQAANNALGFITKSLKKDNLTYLPVFQKGIQLLVNETYEEVSTIPGFCLPKGLASVLPVLISGLMYGTSDQREQATNTLRTVINHTSADALKPFVMQITGPLILVIGDKFPWQVKSAILQTLSLLISKSPASMKIFLHQLQPTFIKCLSDSHKNVRTNAASALGLLMTLSSSVDQLVNSLITGISTADSISQESKLRALQSIFEKKPKVEQATLDKAIATIVDFLYQPSDDLRSMVAQTIGASSKCFTSLTELNQFIKTNLISPSQSVLSRYGKSLALGEIFKASGKNLIDSQSPNMPTIIKIIQTDCRDEKGPIRESSAYLAEAILVASPLTYAKDLVPSICHLIGDQSSSVSISALNVIKRFCKSNQQLSRQYLRDIVVPTMNRLKERTNLPLKLAAERTLVHSLQIFKESIVMDDLIKQLELSGDSSMANSLIDYHKRVLMKLSPDSDIEK |
| 3441 | sp|Q9RR46|GBUA\_LISM4 | MSKIKVEELTKIFGKKASKASSLLSQGKSKTDILKETGATIGVNKASFSVEEGEIFVIMGLSGSGKSTLVRLLNRLIEPTSGKIWLDGKELSSLNKKELLEVRRKSMSMVFQNFGLFPNRTINRNVEYGLEIQGMDKEEREKNAAESLALVGLAGYGDQYPSQLSGGMQQRVGLARALANNPDILLMDEAFSALDPLNRKDMQDQLLDLQDKMKKTIIFITHDLDEALRIGDHIMIMRDGSVVQTGSPEEILAHPANEYVEKFIEDVDRSKVYTASNVMIRPEIVNFEKDGPRVALKRMREAGTSSVFVVKRNRELVGIVHAAEVSKLVKENITSLETALHRDVPTTGLDTPLAEIMDTISTTTIPIAVTEDGKLKGIIIRGSVLAALSGNEVNVNA |
| 3442 | sp|Q824B1|GRPE\_CHLCV | MTDSSNEHETENPSLPIPDNEIQDLQQEIATLKAELKEKNDKYLMVLAESENARKRMQKERQEMMQYAVENALIDFLVPIESMEKALGFASQMSDEVKNWALGFNMILQQFKQVFEEKGIVEYSSVGQKFNPFLHEAVETEETTKVPEGTIVEEFSKGYKIGERPIRVAKVKVAKAPAPQEKEEVEK |
| 3443 | sp|B7MIV1|GRPE\_ECO45 | MSSKEQKTPEGQAPEEIIMDQHEEIEAVEPEASAEQVDPRDEKIANLEAQLAEAQTRERDGILRVKAEMENLRRRTELDIEKAHKFALEKFINELLPVIDSLDRALEVADKANPDMSAMVEGIELTLKSMLDVVRKFGVEVIAETNVPLDPNVHQAIAMVESDDVAPGNVLGIMQKGYTLNGRTIRAAMVTVAKAKD |
| 3444 | sp|P48204|GRPE\_FRATU | MSKQEKSNVEDKSLDIETAAQVETAQESASGALEELSVEEQLERAKDTIKELEDSCDQFKDEALRAKAEMENIRKRAERDVSNARKFGIEKFAKELLPVIDSIEQALKHEVKLEEAIAMKEGIELTAKMLVDILKKNGVEELDPKGEKFDPNLHEAMAMIPNPEFEDNTIFDVFQKGYMLNGRIVRAAKVVIVKN |
| 3445 | sp|B7HPL4|GRPE\_BACC7 | MEERNEQVVEEVKEEVKEAQVEEAVTSEDSEETVEEKSEAALLQEKVDELQAKLTETEGRMLRLQADFENYKRRVQMDKQAAEKYRAQSLVSDILPALDNFERAMQVEATDEQMKSLLQGMEMVYRQLLEAMTKEGVEAIEAVGKQFDPHEHQAVMQVEDSEFESNAVVEEFQKGYKLKDRVIRPSMVKVNQ |
| 3446 | sp|B7NSB2|GRPE\_ECO7I | MSSKEQKTPEGQAPEEIIMDQHEEIEAVEPEASAEQVDPRDEKIANLEAQLAEAQTRERDGILRVKAEMENLRRRTELDIEKAHKFALEKFINELLPVIDSLDRALEVADKANPDMSAMVEGIELTLKSMLDVVRKFGVEVIAETNVPLDPNVHQAIAMVESDDVAPGNVLGIMQKGYTLNGRTIRAAMVTVAKAKA |
| 3447 | sp|B1YKS8|GRPE\_EXIS2 | MEENKQNQNLNTEETTEQQTEAETVEVTEEEVVQADLVEEPAAPDFEAQLAEAKASELRLRADFDNFKRRNRIEAENRAKYSSQTIVEKLLPLVDNLDRALQIESDNEETKSVLAGVEMVKRQLVETLQNEGVIEIPAVGEAFDPNLHQAVVQEPSEEHESGVVTAEFQKGYKLHDRVIRPSMVKVAE |
| 3448 | sp|A8A3C0|GRPE\_ECOHS | MSSKEQKTPEGQAPEEIIMDQHEEIEAVEPEASAEQVDPRDEKIANLEAQLAEAQTRERDGILRVKAEMENLRRRTELDIEKAHKFALEKFINELLPVIDSLDRALEVADKANPDMSAMVEGIELTLKSMLDVVRKFGVEVIAETNVPLDPNVHQAIAMVESDDVAPGNVLGIMQKGYTLNGRTIRAAMVTVAKAKA |
| 3449 | sp|B1JW17|GRPE\_BURCC | MENTQENPTTPSAEDIGSEKQAAQGAAPAAEAADAALAEAQAKVAELQESFLRAKAETENVRRRAQDDVSKAHKFAIESFAEHLLPVLDSLEAAVNDTSGDIAKVREGVELTLRQLTSALEKGRVVAINPIGEKFDPHQHQAISMVPAEQEPNTVVSVLQKGYTIADRVLRPALVTVAQPK |
| 3450 | sp|A4VZB4|GRPE\_STRS2 | MSEEIKNEEIVEEVEATEEVVETPEKSELDLANERAEEFENKYLRAHAEMQNIQRRANEERQTIQRYRSQDLAKKILPSLDNLERALQVEGLTEDVKKGLEMVQESLIQALKEEGVEEVATDVFDPNLHMAIQTVPATDDCPAEHIAQVFQKGYKLHERLLRPAMVVVSE |
| 3451 | sp|Q2FGE2|GRPE\_STAA3 | MTNKDESVEKNTESTVEETNVKQNIDDSVEQAEESKGHLQDEAIEETSDENVIEEIDPKDQKINELQQLADENEEKYLRLYAEFENYKRRIQKENEINKTYQAQRVLTDILPAIDNIERALQIEGDDETFKSLQKGVQMVHESLINALKDNGLEVIKTEGEAFDPNIHQAVVQDDNPDFESGEITQELQKGYKLKDRVLRPSMVKVNQ |
| 3452 | sp|Q30Q11|GRPE\_SULDN | MSQEKKEELQSEAQVTKEETPQANEAAAEAEAIVNEFDLLQEELNSLKDKYARVHADFENIKKRLEREKYSAVEYANEKFAKDMIPVMDALHMALSSSSSIIDSAEHLEKLKEGIELTLKQLSTALEKHGITMVSHDAPFDPNIHNAIQSVDSDTVESGQIVQTFQTGYKYKDRPLREAMVVVAN |
| 3453 | sp|B3CPX8|GRPE\_WOLPP | MSDSNKEKKKKFADMVSKRKGDDQEDQQTGDLSEELNILKERAVQLEDHLRRAVADNENVKRIMQKQISDASDYAVTKFARDMIDSCDNLKKAMENLKDGDPIHEGIKVAHQKIVSDLKKHGIEEIDPIGNSFDSNLHQAVVEREDNEKEPGTIVEVLQTGYTIKNRLLRPAMVILSKKSADCESN |
| 3454 | sp|Q2YT46|GRPE\_STAAB | MTNKDESVEKNTESTVEVTNVKQNIDDSVEQTEESKGHLQDEAIEETSDENVIEEIDPKDQKINELQQLADENEEKYLRLYAEFENYKRRIQKENEINKTYQAQRVLTDILPAIDNIERALQIEGDDETFKSLQKGVQMVHESLINALKDNGLEVIKTEGEAFDPNIHQAVVQDDNPDFESGEITQELQKGYKLKDRVLRPSMVKVNQ |
| 3455 | sp|Q5R4K3|KS6A5\_PONAB | MEEEGGSSGGAAGTSADGGDGGEQLLTVKHELRTANLTGHAERVGIENFELLKVLGTGAYGKVFLVRKISGHDTGKLYAMKVLKKATIVQKAKTTEHTRTERQVLEHTRQSPFLVTLHYAFQTETKLHLILDYINGGELFTHLSQRERFTEHEVQIYVGEIVLALEHLHKLGIIYRDIKLENILLDSNGHVMLTDFGLSKEFVADETERAYSFCGTIEYMAPDIVRGGDSGHDKAVDWWSLGVLMYELLTGASPFTVDGEKNSQAEISRRILKSEPPYPQEMSALAKDLIQHLLMKDPKKRLGCGPRDADEIKEHLFFQKINWDDLAAKKVPAPFKPVIRDELDVSNFAEEFTEMDPTYSPAALPQSSEKLFQGYSFVAPSILFKRNAAVIDPLQFHMEVERPGVTNVARSAMMKDSPFYQHYDLDLKDKPLGEGSFSICRKCVHKKSNQAFAVKIISKRMEANTQKEITALKLCEGHPNIVKLHEVFHDQLHTFLVMELLNGGELFERIKKKKHFSETEASYIMRKLVSAVSHMHDVGVVHRDLKPENLLFTDENDNLEIKIIDFGFARPKPPDNQPLKTPCFTLHYAAPELLNQNGYDESCDLWSLGVILYTMLSGQVPFQSHDRSLTCTSAVEIMKKIKKGDFSFEGEAWKNVSQEAKDLIQGLLTVDPNKRLKMSGLRYNEWLQDGSQLSSNPLMTPDILGSSGAAVHTCVKATFHAFNKYKREGFCLQNVDKAPLAKRRKMKKTSTSTETRSSSSESSHSSSSHSHGKTTPTKTLQPSNPADSNNPETLFQFSDSVA |
| 3456 | sp|A4J7L6|LON\_DESRM | MNSEIKSLPLLPLRGILVFPYMVIHLDVGREKSIQAIEEAMVQDRMIFLATQREAQTDEPTVDDIYNIGTVAEVKQLLKLPGGTIRVLVEGIARAKIEKYEHQDPYFRVEVQQYSEEFEKGAEVEALMRSLVYQFEQYVKLSKRIPPETVVSVVNLEEPGRLADIIASHLALKIEDKQNVLESVEIVDRLEKLCGIVAKELEIVELERKINIRVRKQMEKTQKEYYLREQMKAIQKELGEKDERVAECEEFREKISKAKFPKEAEEKALKEVERLEKMPPMAAEAAVVRNYLDWMLSLPWSKSTKDRIDINAAEEVLEADHYGLKDPKERITEYLAIRKLAKKMKGPILCLVGPPGVGKTSLGRSVARALDRKFVRISLGGVRDEAEIRGHRRTYVGAMPGRVIQGMRTAGSKNPVFLLDEIDKMASDFRGDPSSALLEVLDPEQNSTFSDHYIETPFDLSNVMFITTANNMYSIPRPLLDRMEVIQISGYTEEEKLQIAKRHLMPKQIKDHGLTEEMIQISENTILKVIREYTRESGVRNLERKIASICRKTAKKIVAGQAEKVKVTTQNLEQFLGIPRYRYGVAEQNDEVGTVTGMAWTEVGGDTLVIEVTTYKGTGRMTLTGKLGDVMKESAQAGYSFIRSRAQELGIDQEMFEKWDLHIHIPEGAIPKDGPSAGITMATAMASVLTGRKVRHDIAMTGEITLRGRVLPVGGIKEKVMAAHRAGIKLIILPNDNKKDLEDIPVNIKKQLEFKLVDHIDQVLAIALLEKEVVDTTTVLEPEAAVMDNPHFSAVDSQEVQQQGGTQLPS |
| 3457 | sp|G5EGQ3|MAX2\_CAEEL | MSTSKSSKVRIRNFIGRIFSPSDKDKDRDDEMKPSSSAMDISQPYNTVHRVHVGYDGQKFSGLPQPWMDILLRDISLADQKKDPNAVVTALKFYAQSMKENEKTKFMTTNSVFTNSDDDDVDVQLTGQVTEHLRNLQCSNGSATSPSTSVSASSSSARPLTNGNNHLSTASSTDTSLSLSERNNVPSPAPVPYSESAPQLKTFTGETPKLHPRSPFPPQPPVLPQRSKTASAVATTTTNPTTSNGAPPPVPGSKGPPVPPKPSHLKIASSTVSSGCSSPQQYSSARSVGNSLSNGSVVSTTSSDGDVQLSNKENSNDKSVGDKNGNTTTNKTTVEPPPPEEPPVRVRASHREKLSDSEVLNQLREIVNPSNPLGKYEMKKQIGVGASGTVFVANVAGSTDVVAVKRMAFKTQPKKEMLLTEIKVMKQYRHPNLVNYIESYLVDADDLWVVMDYLEGGNLTDVVVKTELDEGQIAAVLQECLKALHFLHRHSIVHRDIKSDNVLLGMNGEVKLTDMGFCAQIQPGSKRDTVVGTPYWMSPEILNKKQYNYKVDIWSLGIMALEMIDGEPPYLRETPLKAIYLIAQNGKPEIKQRDRLSSEFNNFLDKCLVVDPDQRADTTELLAHPFLKKAKPLSSLIPYIRAVREK |
| 3458 | sp|Q63538|MK12\_RAT | MSSPPPARKGFYRQEVTKTAWEVRAVYQDLQPVGSGAYGAVCSAVDSRTGNKVAIKKLYRPFQSELFAKRAYRELRLLKHMRHENVIGLLDVFTPDETLDDFTDFYLVMPFMGTDLGKLMKHETLSEDRIQFLVYQMLKGLKYIHAAGVIHRDLKPGNLAVNEDCELKILDFGLARQADSEMTGYVVTRWYRAPEVILNWMRYTQTVDIWSVGCIMAEMITGKILFKGNDHLDQLKEIMKVTGTPPPEFVQKLQSAEAKNYMEGLPELEKKDFASVLTNASPQAVNLLEKMLVLDAEQRVTAAEALAHPYFESLRDTEDEPKAQKYDDSFDDVDRTLEEWKRVTYKEVLSFKPPRQLGARVPKETAL |
| 3459 | sp|P0C5B3|MT1A\_ORYSJ | MSCSCGSSCSCGSNCSCGKKYPDLEEKSSSTKATVVLGVAPEKKAQQFEAAAESGETAHGCSCGSSCRCNPCNC |
| 3460 | sp|Q9ZNV9|AHP1\_ARATH | MDLVQKQKSLQDYTKSLFLEGILDSQFLQLQQLQDESNPDFVSQVVTLFFQDSDRILNDLSLSLDQQVVDFKKVDPHVHQLKGSSSSIGAQRVKNACVVFRSFCEQQNVEACHRCLQQVKQEYYLVKNRLETLFKLEQQIVASGGMIPAVELGF |
| 3461 | sp|Q51WZ9|ATG9\_MAGO7 | MASNIFSRLVPQDRGRSFYEDLRQTDPDADLESRAGIDIDEENLNRSYHDYDLDEAERLAGDESHISHSRGDVAGANTVHRRGQKANTARWLGAGVEDDVDNDVPESLLVETPRAPQHLLLSPSRAGPSHPRPTAVPGPSTRQNQAQWEATRHQQRLHNDDTMPHGPFSGRAGQGRPEPPPVGLMAGDPYEQAMWRWVNVSNLDNFIKDVYAYYRAAGFWCIIVQRILELVNAAFVAVFLTFLSQCVDYHKLPHSKKMEDIIIPKCTQNMSLVWNVGLWLFAIYFICRCFGLIIQLRQLKHLRDFYTHLLKIPEADMQSVSWQDVVGRIMALRDSHPRTAGNLTRVQRAWIGSQSKERLDAHDIANRIMRRENFMIAMLNKDVLDLTIPLPFFRNKQHMSECVVLAISFSILDFVFDNQGQVNPEFLKASRRRQLSQKLKSRFFFAGLMIFVMSPFIALYLILVYFLTYFHEFRNDPGALGARTYNSLAKWKFREFNELDHLFNDRMNMSHPFAKRYIDMFPKRKTEQVARTVSFITGSIVAVLGLATIFDSEAFLTFEITPDRSVLFYVSILATLWAVARGNISDDNEVYDPEFAMKSIIEFTHYEPDHWRGRLHSTEVKNEFSELYKPRPQIFLEEILSILLTPLVLLVSLPNSTDQIVDFFREFTIHVDGLGYVCLFSVFNFQQGHANQKQAAAADAPDNREEYYSTKHGKMAASFYGFLDHYVINPKTGLPGNQLPGSRQQFQHPPSFPGLQSPTLAADMRHSRMMRERGRSSGVQIQGSQGRTPQFRTPMPQPSPMASILLDPHHQPAPGAFGSRSMHRSRQMAVPHRGGYMSDRDIIEEAVTEDGQDDARFGKLGDEDIDESGGALDESTWQTSPTKTLSRENSGANPQETEVGVLGLIHQFQQAHMHLRR |
| 3462 | sp|P52032|GPX1\_ARATH | MVSMTTSSSSYGTFSTVVNSSRPNSSATFLVPSLKFSTGISNFANLSNGFSLKSPINPGFLFKSRPFTVQARAAAEKTVHDFTVKDIDGKDVALNKFKGKVMLIVNVASRCGLTSSNYSELSHLYEKYKTQGFEILAFPCNQFGFQEPGSNSEIKQFACTRFKAEFPIFDKVDVNGPSTAPIYEFLKSNAGGFLGGLIKWNFEKFLIDKKGKVVERYPPTTSPFQIEKDIQKLLAA |
| 3463 | sp|A8FFD3|GRPE\_BACP2 | MSEEKQTPEQEAEVEAQEEAVQADTEEVTQDEQSAFQEKIDELQQLLDEKENKILRVQADFENYKRRARTEVETVQKYRSQHVVSDLLPALDNFERALGIDPDNEQAKSLLEGMQMVYRQLVEALKNEGVEPIEAVGKEFDPNLHQAVMQVEDENFDSNIVVEELQKGYKLKDRVIRPSMVKVNQ |
| 3464 | sp|A9NFN7|GRPE\_ACHLI | MADKEKDAVIVDETEHVDVDSKESKKEKKTKQQQKIEFLEAEVKELNDKYLRTLAEAENFKKRIQAEKIMDRKYAASSFATELLVPYEQFSKIVDFPSDNELLNNFLIGFKMIRDQFKSVLENEGVVEIKALGEVFDAKVHHAIEKESNKDKPNGTVLEVLQNGYLFKDRILRPAMVKINEWSEDNGEDK |
| 3465 | sp|B0BC30|GRPE\_CHLTB | MTETPNTSSEEIQTSEPSPDNELQVLQQENANLKAELQEQNDRYLMALAEAENSRKRLRKERTEMMQYAVENALMDFLPPIESMEKALGFASQTSEEVKNWAIGFQMILQQFKQIFEEKGVVEYSSKGELFNPYLHEAVEIEETTTIPEGTILEEFTKGYKIGDRPIRVAKVKVAKLPAKGNSDSNEEKE |
| 3466 | sp|B1IVM0|GRPE\_ECOLC | MSSKEQKTPEGQAPEEIIMDQHEEIEAVEPEASAEQVDPRDEKIANLEAQLAEAQTRERDGILRVKAEMENLRRRTELDIEKAHKFALEKFINELLPVIDSLDRALEVADKANPDMSAMVEGIELTLKSMLDVVRKFGVEVIAETNVPLDPNVHQAIAMVESDDVAPGNVLGIMQKGYTLNGRTIRAAMVTVAKAKA |
| 3467 | sp|A1TLI0|GRPE\_ACIAC | MSDQQHSAPQNAAATASPSDSPEAVEATMAAHAADELGRLQNELAELKAKSADLADQFLRAKAEAENARRRADEEVSKARKFGIESFAESLLPVADSLTAALAIKDATIEQLREGTDATLRQLTSALERNKVLAIQPGAGEKFDPHQHQAISMVPAEQEPNTIVSVLQKGYVIADRVLRPALVTVAAPK |
| 3468 | sp|B5Z231|GRPE\_ECO5E | MSSKEQKTPEGQAPEEIIMDQHEEIEAVEPEASAEQVDPRDEKIANLEAQLAEAQTRERDGILRVKAEMENLRRRTELDIEKAHKFALEKFINELLPVIDSLDRALEVADKANPDMSAMVEGIELTLKSMLDVVRKFGVEVIAETNVPLDPNVHQAIAMVESDDVAPGNVLGIMQKGYTLNGRTIRAAMVTVAKVKA |
| 3469 | sp|Q182F1|GRPE\_CLOD6 | MDKKNEQQEVREENDTSINQESETQVELEEEVVNEECETSSEKTDEKEVDDENVTDINSKLAEKKLQDELDELNDKYQRLQAEYANYRRRTQQEKETIGVFANEKIITELIPVIDSMERALDACEDKEDTMYKGISLVHKQLIDTLVKFGVEEIEAESKEFDPNLHLAVMQESVDGVEANQIVMVLQKGYKLGTKVVRPSMVKVSC |
| 3470 | sp|A7H485|GRPE\_CAMJD | MSEQKQEFENENAENSEHLQDENLQNIEDVEQNKLQKDYDELKDKYMRANAEFENIKKRMEKEKLSAMAYANESFAKDLLDVLDALEAAINVECHDEISLKIKEGVQNTLDLFLKKLEKYGVTLIKEEKEFDPNLHEAMFHVDGENHQSGEVVTVLQKGYKIADRVIRPTKVSVAK |
| 3471 | sp|Q58FF8|H90B2\_HUMAN | MPEEVHLGEKEVETFAFQAEIAQLMSLIINTFYSNKEIFLWELISNASDALDKIRYESLTDPSKLDSGKELKIDIIPNTQEHTLTLVDTGIGMTKADLINNLGTIAKFQDQTEYLEEMQVKEVVEKHSQFLGYPITLYLEKEREKEISDGKAEEEKGEKEEENKDDEEKPKIEDVGSDEEDDSGKDKKKKTKKIKEKYIDQEELNKTKPIWTRNTEDITQEEYGEFYKSLTNDWKDHLAVRYFSVEEYVSRMKEIQKSIYYITGESKEQVANSAFVEQVWKRDSRVVYMTEPIDGYQLKEFDGKSLVSVTKEGLELPEDGEEKKRMEERKAKFENLCKFMKETLDKKVEMVTVSNRLVSSSCCIVTSTYSWTANMEQIMKA |
| 3472 | sp|B2I6F7|GRPE\_XYLF2 | MNQDHPECDSEELTQNSPETDPLKVEVETLRGEIASIKADVLRERAELENQRKRLIRDVEQARKFANEKLLGELLPVFDSLDAGLTASGSEPSPLRDGLELTYKQLLKVAIDNGLMLLDPVGQLFNPEHHQAISQTEVTDVEPGHVIQVFQKGYLLNERLLRPALVVVAKQD |
| 3473 | sp|A8X5H5|GSK3\_CAEBR | MNKQLLSCSLKSGKQVTMVVASVATDGVDQQVEISYYDQKVIGNGSFGVVFLAKLSTTNEMVAIKKVLQDKRFKNRELQIMRKLNHPNIVKLKYFFYSSGDKKDELYLNLILEYVPETVYRVARHYSKQRQSIPMIYVKLYMYQLLRSLAYIHSIGICHRDIKPQNLLIDPETGILKLCDFGSAKYLVRNEPNVSYICSRYYRAPELIFGATNYTNSIDVWSAGTVIAELLLGQPIFPGDSGVDQLVEIIKVLGTPTREQIQSMNPNYKEFKFPQIKAHPWNKVFRVHTPAEAIDLISKIIEYTPTSRPTPQAACQHAFFDELRSPDARLPSGRALPQLEMDGPNEVSATGGDMAGPSA |
| 3474 | sp|P0DB49|GRPE\_STRPQ | MAVFNKLFKRRHSVSEEIKKDDLQEEVEATETEETVEEVIEETPEKSELELANERADEFENKYLRAHAEMQNIQRRSSEERQQLQRYRSQDLAKAILPSLDNLERALAVEGLTDDVKKGLEMTRDSLIQALKEEGVEEVEVDSFDHNFHMAVQTLPADDEHPADSIAEVFQKGYKLHERLLRPAMVVVYN |
| 3475 | sp|B0UT70|GRPE\_HISS2 | MSEQEKVEQEEISAELETQNEQEKPMEETEIQDGDALENAIARVQELEEQLIQAVKKEQDILLRTRAEIDNIRRRAEQDVEKAHKFALEKFAKDLLETIDNLERALSTPANVENETIKSLVDGVELTLKGLLSTVARFGVEPVGVIGETFNPELHQAISMQPTEGFESNQITVVLQKGYLLNGRVIRPAMVMVAQ |
| 3476 | sp|A6LBD8|GRPE\_PARD8 | MSKMNPNEKKENASKNENVNNEEATNLQEEQSNAADEAAGSDNVSGEVEALQKKYNELNDSHLRLMAEFDNYRKRTMREKADLIKTGGEGALKNLLPIIDDFERALQNVRAAEDVEAVKEGVDLIFGKFMGYLSQQGVKPIEAIGKPFDTEEFEAIATIPAPEPDMKGKVLDCVQTGYTLFDKVIRHAKVVVGE |
| 3477 | sp|Q9JR00|GRPE\_NEIMA | MSEQTQQQNSEEAVENVEAVETVETVGNADGVQEQAAAEPAYEDLQARIAELEAQLKDEQLRALANEQNLRRRHQQEIADTHKFAGQKFAVEMLPVKDYLEMALLDQSGNFDALKMGVQMTLNELQKAFDATQIKEINPKAGDKLDPNIHQAMQAVASEQEPNTVVGVMKKGYTLSDRVLRPAMVTVAQKEA |
| 3478 | sp|G5EGD2|HIF1\_CAEEL | MEDNRKRNMERRRETSRHAARDRRSKESDIFDDLKMCVPIVEEGTVTHLDRIALLRVAATICRLRKTAGNVLENNLDNEITNEVWTEDTIAECLDGFVMIVDSDSSILYVTESVAMYLGLTQTDLTGRALRDFLHPSDYDEFDKQSKMLHKPRGEDTDTTGINMVLRMKTVISPRGRCLNLKSALYKSVSFLVHSKVSTGGHVSFMQGITIPAGQGTTNANASAMTKYTESPMGAFTTRHTCDMRITFVSDKFNYILKSELKTLMGTSFYELVHPADMMIVSKSMKELFAKGHIRTPYYRLIAANDTLAWIQTEATTITHTTKGQKGQYVICVHYVLGIQGAEESLVVCTDSMPAGMQVDIKKEVDDTRDYIGRQPEIVECVDFTPLIEPEDPFDTVIEPVVGGEEPVKQADMGARKNSYDDVLQWLFRDQPSSPPPARYRSADRFRTTEPSNFGSALASPDFMDSSSRTSRPKTSYGRRAQSQGSRTTGSSSTSASATLPHSANYSPLAEGISQCGLNSPPSIKSGQVVYGDARSMGRSCDPSDSSRRFSALSPSDTLNVSSTRGINPVIGSNDVFSTMPFADSIAIAERIDSSPTLTSGEPILCDDLQWEEPDLSCLAPFVDTYDMMQMDEGLPPELQALYDLPDFTPAVPQAPAARPVHIDRSPPAKRMHQSGPSDLDFMYTQHYQPFQQDETYWQGQQQQNEQQPSSYSPFPMLS |
| 3479 | sp|Q5NH41|HFQ\_FRATT | MSRISSLQDPFLNALRKEKVSVSVYLVNGIKLQGQVEAFDQFCIVLRNTVNQMVYKHAISTIVPAKSVRMIYNSFNPYHQNSNDEQDENVDDIHSDDLEIQENEGNIHE |
| 3480 | sp|B7LSA2|HSLO\_ESCF3 | MPQHDQLHRYLFENFAVRGELVTVSETLQQILENHDYPQPVKNVLAELLVATSLLTATLKFDGDITVQLQGDGPMSLAVINGNNKQQMRGVARVQGEIPENADLKTLVGNGYVVITITPSEGERYQGVVGLEGDTLAACLEDYFMRSEQLPTRLFIRTGDVDGKPAAGGMLLQIMPAQNAQQDDFDHLATLTETIKTEELLTLPANEVLWRLYHEEEVTVYDPQDVEFKCTCSRERCADALKTLPDEEVDSILAEEGEIDMHCDYCGNHYLFNAMDIAEIRNNASPADPQVH |
| 3481 | sp|Q636W3|HFQ\_BACCZ | MKQSINIQDQFLNQLRKENTFVTLYLLNGFQLRGLIKGFDNFTVLLETEGKQQLIYKHAISTFVPQKNVSIELE |
| 3482 | sp|O74984|HSP15\_SCHPO | MLFDAFTNGFMNDIFEFGDRSKFNRSAWLSCWGPALELRETEDTIEVDVEVPGIDKQNLKVDLHGSKLTISGERKKPEEEKAGPLIRWSERCVGAFSRTITLPQPVDEKLIHASLNNGILSIVMKKKNPEFTTRIVEIQ |
| 3483 | sp|Q31F55|HTPX\_HYDCU | MKRIGLFLLTNIAVLAVAMITMNLLGVGSYMQGTSLDLGNLFAFAAIIGFAGSFVSLAMSKWLAKMSVGAKVIKEPRNADEQWLVETVRRQAEKAGIGMPEVAIYEGAEPNAFATGMTKNSALVAVSTGLLRHMRQNEVEAVLGHEVAHIANGDMVTMALLQGVVNTFVIFFAKIVAYVVDRVVLKNESEGHSITFIVVDIVAQILFGILASMITMWFSRKREFHADNGGAYLAGKENMIAALQRLQTMQPGELPDQMAAFGISARPSNIGDLFRSHPPLEKRIEALRATTQDQLKVA |
| 3484 | sp|Q5ZZ31|HTPX\_LEGPH | MINNLKTFILLASLTALLVVIGGLLGGSTGMLIALVFAGVMNFSAYWYSDVLVLKMYNAEPLPNNHFVNNIISELAHRAGTPVPKVYLINNSTPNAFATGRNPENASIAVTTGLLDRLTQEEITGVLAHELAHVIHRDTLINVVSATIAGAISGIANMFMWLSMFGHNSNNEEGVHPVVGMIMMIVAPLAAGLIQMAISRSREFEADAGGARISGNPQWLASALLKLDQANHEQYFDEAETHPSTAHLFIINPLNGEKLANLFSTHPSTAERVARLRAMY |
| 3485 | sp|Q9LNB6|HSOP1\_ARATH | MAEEAKAKGNAAFSSGDFTTAINHFTEAIALAPTNHVLFSNRSAAHASLHQYAEALSDAKETIKLKPYWPKGYSRLGAAHLGLNQFELAVTAYKKGLDVDPTNEALKSGLADAEASVARSRAAPNPFGDAFQGPEMWTKLTSDPSTRGFLQQPDFVNMMQEIQKNPSSLNLYLKDQRVMQSLGVLLNVKFRPPPPQGDEAEVPESDMGQSSSNEPEVEKKREPEPEPEPEVTEEKEKKERKEKAKKEKELGNAAYKKKDFETAIQHYSTAIEIDDEDISYLTNRAAVYLEMGKYNECIEDCNKAVERGRELRSDYKMVARALTRKGTALTKMAKCSKDYEPAIEAFQKALTEHRNPDTLKRLNDAERAKKEWEQKQYFDPKLGDEEREKGNDFFKEQKYPEAIKHYTEAIKRNPNDHKAYSNRAASYTKLGAMPEGLKDAEKCIELDPTFSKGYSRKAAVQFFLKEYDNAMETYQAGLEHDPSNQELLDGVKRCVQQINKANRGDLTPEELKERQAKGMQDPEIQNILTDPVMRQVLSDLQENPSAAQKHMQNPMVMNKIQKLISAGIVQMK |
| 3486 | sp|P85904|HSP01\_PSEMZ | ELVSNASDALDKLR |
| 3487 | sp|C0MAF0|HSLO\_STRE4 | MDKLIKTISASGAFRAYVLDCTETVRYAQERHHTLSSSTVALGRTLIANQILAANQKGDSKVTVKVIGDSSFGHIISVADTKGHVKGYIQNPGVDIKKTATGEVLVGPFMGQGHFVTITDYGTGNPYTSTTPLITGEIGEDLAYYLTESEQTPSAVGLNVLLDQEDKVKVAGGFMLQVLPGASVEEISHYEKRIQEMPAISTLLASENHIDALLAAIYGEEPYKRLAEEQLSFQCDCSRERFASALMSLPKADLLTMLNEDKGAEIVCQFCGTKYQFDQTDLEVLINDKA |
| 3488 | sp|A5UHK2|HTPX\_HAEIG | MMRILLFLATNMAVMLVLGIILSVTGIAGNSTGGILIMALLFGFAGSLISLFLSKTMALRSVDGEVITQPRNQTERWLIDTVSRQAQKAGIPMPDVAIYHSPDVNAFATGATKSNSLVAVSTGLLNNMTEAEAEAVLAHEISHISNGDMVTMALLQGVLNTFVIFLSRVIATAVASSRNNNGEETRSSGIYFLVSMVLEMLFGVLASIIAMWFSRYREFRADAGSASLVGKEKMIMALQRLQQLHEPQNLEGSLNAFMINGKRSELFMSHPPLEKRIEALRNL |
| 3489 | sp|P04794|HSP14\_SOYBN | MSLIPGFFGGRRSNVFDPFSLDMWDPFKDFHVPTSSVSAENSAFVSTRVDWKETPEAHVFKADIPGLKKEEVKVQIEDDRVLQISGERNVEKEDKNDTWHRVERSSGKFTRRFRLPENAKVNEVKASMENGVLTVTVPKEEVKKPDVKAIEISG |
| 3490 | sp|P46516|HSP21\_HELAN | MDIDSLMGFDPLLRNLHYILEATDDNTTGNKSNNSGPSRAYVRDARAMAATPADVKECPNSYVFIVDMPGLKSGDIKVQVERDNVLVISGKRNREEEKEGVKYVRMERRMGKFMKKFALPEDANTDKISAICQDGVLTVTVEKLPPPEPKKPKTIQVQVA |
| 3491 | sp|B3GXX7|HTPG\_ACTP7 | MSTNQETRGFQSEVKQLLQLMIHSLYSNKEIFLRELISNASDAADKLRFKALSNPALYEGDGELRVRVSFDETLGTLTISDNGIGMNREQVIDHLGTIAKSGTKEFLNSLGTDQAKDSQLIGQFGVGFYSAFIVADKVTVKTRAAGETQAVLWESAGEGDYTVADIEKATRGTDVILHLREEEKEFLSEWRLREIIGKYSDHIGLPVEIQTTEYDEEGKVSGQKWEKINKAQALWTRSKIEISDEEYQEFYKHLSHDYNDSLIWAHNKVEGKQDYTSLLYVPAKAPWDLFNRDQKHGLKLYVQRVFIMDDAEVFMPNYLRFMRGLLDTNDLPLNVSREILQENKITASLRAALTKRALQLLEKLAKDDQAKYQTFWNEFGLVLKEGVGEDFANKQQIASLFRFASTQTDSSEQTVSLADYVGRMKEGQKAIYFLTADSYVAAKNSPHLELFNKKGIEVLLLSDRIDEWVVGHLTEFDGKPLQSITKSDLDLGDLADKEQEESQKAQQAEFGSFLERAQSYFGERVKKVVLTHRLTDTPAVVSTDNDEMTTQMAKLFAAMGQKAPEVKYTFELNPDHRMVKKIADLTDETEFNDWIELLFEQALLAERGSLENPAAFIKRMNKLLG |
| 3492 | sp|Q66HA8|HS105\_RAT | MSVVGLDVGSQSCYIAVARAGGIETIANEFSDRCTPSVISFGPKNRTIGVAAKNQQITHANNTVSSFKRFHGRAFNDPFIQKEKENLSYDLVPMKNGGVGIKVMYMDEDHLFSVEQITAMLLTKLKETAENNLKKPVTDCVISVPSFFTDAERRSVLDAAQIVGLNCLRLMNDMTAVALNYGIYKQDLPNADEKPRVVVFVDMGHSSFQVSACAFNKGKLKVLGTAFDPFLGGKNFDEKLVEHFCAEFKTKYKLDAKSKIRALLRLHQECEKLKKLMSSNSTDLPLNIECFMNDKDVSAKMNRSQFEELCAELLQKIEVPLHLLMEQTHLKTEEVSAIEIVGGATRIPAVKERIARFFGKDVSTTLNADEAVARGCALQCAILSPAFKVREFSVTDAVPFPISLVWNHDSEETEGVHEVFSRNHAAPFSKVLTFLRRGPFELEAFYSDPQAVPYPEAKIGRFVVQNVSAQKDGEKSKVKVKVRVNTHGIFTISTASMVEKVPTEEEDGSSVEADMECPNQKPAESSDVDKNIQQDNSEAGTQPQVQTDGQQTSQSPPSPELTSEENKIPDADKANEKKVDQPPEAKKPKIKVVNVELPVEANLVWQLGRDLLNMYIETEGKMIMQDKLEKERNDAKNAVEECVYEFRDKLCGPYEKFICEQEHEKFLRLLTETEDWLYEEGEDQAKQAYIDKLEELMKMGTPVKVRFQEAEERPRVLEELGQRLQHYAKIAADFRGKDEKYNHIDESEMKKVEKSVNEVMEWMNNVMNAQAKRSLHQDPVVRTHEISAKVKELNNVCEPVVTQPKPKIESPKLERTPNGPNMDKKEDLEGKSNLGADAPHQNGECHPNEKGSVSMDLD |
| 3493 | sp|A6VL81|HSLU\_ACTSZ | MSTMTPREIVSELDAYIIGQSEAKRAVAIALRNRWRRMQLPEELRQEVTPKNILMIGPTGVGKTEIARRLAKLANAPFVKVEATKFTEVGYVGKEVDTIIRDLTDMAVKQIRKIEVEKNRMKAQDAAEERILDILLPRAKNKWGETEYEKDSATRQVFRKKLREGALDDSEIEVDISSQMNVEIMTPPGMEEMTSQLQSLFEGLSPSHSKKRRMKVKDAMKVLIDDEAAKLVNNEDLKQKAIESVEQNGIVFIDEIDKICKQSDRGGADVSREGVQRDLLPIIEGSTVNTKHGMVKTDHILFICSGAFQVARPSDLLPELQGRLPIRVELKSLTKEDFERILTEPSASLTLQYKELMKTEGVTVEFTPDGISKIAEAAFHVNEKTENIGARRLHTVLERLMDGISFDASERSGESVVIDEKYVSEVLNDVVDNEDLSRFIL |
| 3494 | sp|A1TKC1|HSLU\_ACIAC | MSSMTPQEIVSELDRHIVGQSGAKRAVAIALRNRWRRQQVDPALRQEITPKNILMIGPTGVGKTEIARRLARLADAPFIKVEATKFTEVGYVGKDVDSIVRDLVEVAVKQTREADVKKVRARAEDAAEDRILDVLIPTARTGEQPADSTARQVFRKKLREGQLDDKEIEIDVADARPQLEIMGPQGMEEMAEQLRGMFSQMGHERRKARKLRIAEALKLLTDEEAGKLVNEEEVKTRALQNAEQNGIVFIDEIDKVATRQEAGGSDVSRQGVQRDLLPLVEGTTVSTKYGMVKTDHILFITSGAFHLAKPSDLIPELQGRFPIRVELESLSVGDFEAILTQTHASLVKQYQALLATEGVTLEFVPEGITRLAHIAFEVNERTENIGARRLSTVMERLLDEVSFDAAKLSGQTVRVDAAYVDGRLASLSQNEDLSRYIL |
| 3495 | sp|B1YPR3|HSLU\_BURA4 | MSTMTPAEIVSELDKHIIGQAKAKKAVAVALRNRWRRQQVGEPLRQEITPKNILMIGPTGVGKTEIARRLAKLADAPFVKIEATKFTEVGYVGRDVDSIVRDLIEISVKQTREAEMRKVRSKATDQAEDRILDILLPQPRAVGFGGNADHANDDNNATRQTFRKRLREGQLDDKEVELDLEQPSAGMDIMAPPGMEEMTEQIRSMFSNLGSGKKQRRKVKIKEALKLLTDEEAAKMLNDEEVKTKAVQNVEQNGIVFLDEIDKITSRNNEGSGGEVSRQGVQRDLLPLVEGTTVNTKYGMVKTDHILFIASGAFHLAKPSDLIPELQGRFPIRVELDSLSVEDFEAILDATDASLVKQYQALLATEDVQLEFAADGIRRLAEIAYSVNEKTENIGARRLYTVIEKLLEEVSFSAGNHAGECVTIDATYVDRALGEVAQDEDLSRYVL |
| 3496 | sp|B6EHJ9|HTPG\_ALISL | MSEQTINNKETRGFQSEVKQLLHLMIHSLYSNKEIFLRELISNASDASDKLRFKALSNGDLYEGNADLGVKISFNVEANTLTISDNGIGMGREDVIEHLGTIAKSGTADFFSKLSEDQSKDSQLIGQFGVGFYSAFIVADAVTVRTRVAGAAKDQAVQWHSEGEGDYTIEDVTKESRGTDIILHMRDEGKEFLSEWRLKEVIGKYSDHIGIPVSIWTVEKDEEGKETEGKWEQVNKAQALWTRNKSEIEDAEYQEFYKHVSHDFADPLTWSHNKVEGKNDYTSLLYIPAKAPFDMMNRDHKSGLKLYVQRVFVMDDAEQFMPSYLRFVKGLIDSNDLALNVSREILQDNKVTQSLRGACTKRVLSMLEKIAKKDNDKYLSFWKEFGQVLKEGLAEDFANKDKIAGLLRFASTNKDSSEQAISLASYVERMKEDQDKIFYLTSDSYAAAKNSPHLEQFKSKGIEVVLMYDRIDEWLMSYLTEFDGKQFQSITKAGLDLSKFENEAEKEKQKETTEEFKSVVERTKAYLGDRVKEVRTTFKLATTPAVVVTDDFEMGTQMAKLLEAAGQAAPEVKYIFEINPEHALIKQMADEADEEAFGRWVEMLLGQAMLAERGSLDDPSQFLSAMNQLLSK |
| 3497 | sp|Q3AB74|HSLU\_CARHZ | MENLTPRQIVEYLDKYIIGQEAAKKAVAVALRNRYRRKLLPPHLKDEIIPKNILMIGPTGVGKTEIARRLAKLIKAPFVKVEATKFTEVGYVGRDVEGMIRDLVETSLRMVREEKIKMVEDKAYNLAVERLSEIMIPNPKKENIKNPFEMFFGGIREDAAKTDPAYDELNYRRRELQDKIKKGFLDNEMVEIEVEEQKTPMVEVFGVGGIEEMGLNFQDILGGLIPPRRKKRRVTVKEALKILTQQEAQKLIDMDEVQREAIKRAEEDGIVFLDEIDKIASTGNTHGPDVSRGGVQRDILPIVEGSTVLTKYGPVKTDHILFIAAGAFHMSKPSDLIPELQGRFPIRVELKSLTVEDFKKILTVPENALTKQYVELLATEGVNLKFTEDSLEEIAKMAYTVNERNENIGARRLITILEKVLEDLSFNAPEMWGQTVVIDRKFVQDKLSEIVHDSDLSRYIL |
| 3498 | sp|Q41560|HS16B\_WHEAT | MSIVRRTNVFDPFADLWADPFDTFRSIVPAISGGGSETAAFANARMDWKETPEAHVFKADLPGVKKEEVKVEVEDGNVLVVSGERTKEKEDKNDKWHRVERSSGKFVRRFRLLEDAKVEEVKAGLENGVLTVTVPKAEVKKPEVKAIQISG |
| 3499 | sp|A7ZIN3|HTPG\_ECO24 | MKGQETRGFQSEVKQLLHLMIHSLYSNKEIFLRELISNASDAADKLRFRALSNPDLYEGDGELRVRVSFDKDKRTLTISDNGVGMTRDEVIDHLGTIAKSGTKSFLESLGSDQAKDSQLIGQFGVGFYSAFIVADKVTVRTRAAGEKPENGVFWESAGEGEYTVADITKEDRGTEITLHLREGEDEFLDDWRVRSIISKYSDHIALPVEIEKREEKDGETVISWEKINKAQALWTRNKSEITDEEYKEFYKHIAHDFNDPLTWSHNRVEGKQEYTSLLYIPSQAPWDMWNRDHKHGLKLYVQRVFIMDDAEQFMPNYLRFVRGLIDSSDLPLNVSREILQDSTVTRNLRNALTKRVLQMLEKLAKDDAEKYQTFWQQFGLVLKEGPAEDFANQEAIAKLLRFASTYTDSSAQTVSLEDYVSRMKEGQEKIYYITADSYAAAKSSPHLELLRKKGIEVLLLSDRIDEWMMNYLTEFDGKPFQSVSKVDESLEKLADEVDESAKEAEKALTPFIDRVKALLGERVKDVRLTHRLTDTPAIVSTDADEMSTQMAKLFAAAGQKVPEVKYIFELNPDHVLVKRAADTEDEAKFSEWVELLLDQALLAERGTLEDPNLFIRRMNQLLVS |
| 3500 | sp|P70917|HSPA\_BRADU | MRTYNISPLWRSTIGFDRVFDLVDAARHTAGEANYPPCNVERLSDDRYRISLALAGFSPDEITVTAEQSVLTIEGRKGEKGRRDFVYRGISSRPFKRQFGLAAHVRVEGARFDNGLLQIELVREIPDAMKPRRIPIDNLAASDVQQIEREAA |
| 3501 | sp|P56116|HTPG\_HELPY | MSNQEYTFQTEINQLLDLMIHSLYSNKEIFLRELVSNASDALDKLNYLMLTDEKLKGLNTTPSIHLSFDSQKKTLTIKDNGIGMDKNDLIEHLGTIAKSGTKNFLSALSGDKKKDSALIGQFGVGFYSAFMVASKIVVQTKKVNSDQAYAWVSDGKGKFEISECVKDEQGTEITLFLKDEDSHFASRWEIDSVVKKYSEHIPFPIFLTYTDTKHEGEGDNQKEIKEEKCEQINQASALWKMNKSELKDKDYKEFYQSFAHDNSEPLSYIHNKVEGSLEYTTLFYIPSTAPFDMFRVDYKSGVKLYVKRVFITDDDKELLPSYLRFVKGVIDSEDLPLNVSREILQQNKILANIRSASVKKILSEIERLSKDEKNYHKFYEPFGKVLKEGLYGDFENKEKLLELLRFYSKDKEKLISLKEYKENLKENQKSIYYLLGENLDLLKASPLLEKYAQKGYDVLLLSDEIDAFVMPGVNEYDKTPFKDASHSESLKELGLEEIHDEVKDQFKDLMKAFEENLKDEIKGVELSSHLTSAVALIGDEQNAMMANWMRQMGQSVPESKKTLELNPNHAILQKLLKCEDKEQLSAFIWLLYDGAKLLEKGALKDAKSFNERLNSVLLKAL |
| 3502 | sp|Q27031|HSP70\_THEPA | MTGPAIGIDLGTTYSCVAVYKDNNVEIIPNDQGNRTTPSYVAFTDTERLIGDAAKNQEARNPENTIFDAKRLIGRKFDDRTVQEDMKHWPFKVTNGPNGKPNIEVTFQGEKKTFHAEEISSMVLTKMKEIAEAFLGKSVKDVVITVPAYFNDSQRQATKDAGTIAGLNVMRIINEPTAAAIAYGLDKKGGGEKNVLIFDLGGGTFDVSILTIEDGIFEVKATAGDTHLGGEDFDNLLVEHCVRDFMRLNNGKNISSNKRALRRLRTHCERAKRVLSSSTQATIELDSLYEGIDYNTTISRARFEELCNEKFRSTLVPVEKALESSGLDKRSIHEVVLVGGSTRIPKIQTLIKNFFNGKEPCRSINPDEAVAYGAAVQAAILSGNQSEKIQELLLLDVAPLSLGLETAGGVMTVLIKRNTTIPTKKNQIFTTNEDRQEGVLIQVFEGERAMTKDNNLLGKFHLTGIAPAPRGVPQIEVTFDIDANGILNVTAMDKSTGKSEHVTITNDKGRLSQEEIDRMVEEAEKYKEEDEKRRKCVESKHKLENYCYSMKNTLSEDQVKQKLGADEVDNALNTITEALKWVETNQLAEHDEFEDKLKHVEGVCNPLVTKLYQSGGAPGAGPDMGAGFPGGAPPPSSSSGPTVEEVD |
| 3503 | sp|Q2JGG1|HTPG\_FRACC | MSTRVETLEFQAEARQLLQLMVHSIYSNKDIFLRELISNASDALDKLRIASLVKDGPRVDSADLRIEIEADVNARTLTVRDNGIGMSRDEVVGLIGTIAKSGTAELLRKLRESEDGAASSDLIGQFGVGFYSTFMVADKVTLLTGKAGESGGTRWESDGAGTYVIETVDDAPRGTAVTVHLKPEDSEDRLYDYTDENKIREIVKRYSDFIAWPIRLVSAPAAKDRDSNDDGTAESGAGAENAGDRPLNSMKALWARPQSEVDKAEYDQFYQHLSHDWTGPLEVIHMKGEGTFEYEALLFIPSRAPLDLFTRDARRGVQLYVKRVFIMDDCAELLPNYLRFVRGVVDTHDLSLNISREILQQDRRIQLVRRRLVKKILASIRALQENDAERYRTLWKEFGAALKEGLLEDADNQDAILGLVSVDSTHDADRPTTLREYIERMKDAQNEIYYLTGDSRGMIENSPHMEAFRAKGYEVLILTDPVDEVWVERVAEFDGKPLKSIAKGEVDLDTDDEKKSSEAEREQLRKDFAALLPWLAAKLEDDVKEVRLSSRLTTSPACLVGDTFDMTPALEKMYRAMGHEMPRPKRILELNPTHALVMGLRAAHERDADSAALGDTAELLYGMALLAEGGELRDPARFTRLLAERLAEAL |
| 3504 | sp|P22623|HSP72\_PARLI | MAKAPAVGIDLGTTYSCVGVFQHGKVEIIANDQGNRTTPSYVAFTDTERLIGDAAKNKTASNPYRSLDAKRLIGRNFSDTNVKADMKHWPFTVIEEGGRPKIKIEFKGESKTFYAEEISSMVLLKMKETAEAYLGKESVTDAVVTVPAYFNDSQRQATKECGVISGMNILRIINEPTAAAIAYGLDKKGGAERNVLIFDLVGGTFDVSVLTIEEGIFEVKSTSRDTHLGGEDFDNRMVTHSSPEFKRKHKKDITPNKRAVRRLRTACERAKRTLSSSTQAKIEIDSLFEGIDYYTSVTRARFEELNSDLFRGTLEPVENALRDAKLDKEKIHEIVLVGGSTRIPKIQKLQDFFHGKELNKSINPDEAVAIVQ |
| 3505 | sp|Q0K8D7|HTPG\_CUPNH | MTAPHETMSFQAEVKQLLHLMIHSLYSNKEIFLRELVSNASDATDKLRFEAIANPSLLENDADLAIRIEADAKARTLTITDNGIGMSRDEAIHNLGTIARSGTKEFFQQLSGDQQKDAALIGQFGVGFYSAFIVADKVTVETRRAGLGAEDAVRWESTGDGEFTIDAIARNERGTTITLHLREGEDDFLSAWRLKGIIQKYSDHISLPIRMPKEVWDAESSTYQRTAEWESVNQASALWTRAKSDITDEQYTAFYQHIAHDNEAPLAWTHNRVEGRSEYTQLLYIPARAPFDLWDRNHKAGLKLYVKRVFIMDDADQLLPGYLRWVKGVVDSADLPLNVSRELLQESRDVKAIREGCTKRVLSMLETLADSEEEAERAKYTTFWQQFGQALKEGIGEDQANLERVAKLLRFASTHNDTAEQNVALAAYVGRMKEGQDKIYYVTADTWSAAKNSPHLEVFRKKGIEVLLLTDRVDEWMLSFLREFDGKELVSVARGDLDLGKLADEAEKAEQEKAEADWKDVVDRAKTVLDGKAKDVRVTLRLTASASCLVSDEGDMSGYLQRLLKQAGQKAPDAQPILELNPEHALVQKLRDLPEGDAFSDRVQVLFDQALLAEGGMLDDPAAYVQRVNKLLA |
| 3506 | sp|Q54W43|HSPM\_DICDI | MFVLNFELAGVNKNDIKIEIKDSLLCIQGEKYKSMNNNNKNNLQINNDDKPMIEEEDDDSSSSSNNNNNNNNNNNNNNNNNNNNNNNNNSNNNNNKSSKTNDKKFISERSFGHFEKYLDLSPVFYQLDLSTINAQFEDGLLTITVRKTNLSNNIKIQIN |
| 3507 | sp|B6I4S4|HSLU\_ECOSE | MSEMTPREIVSELDKHIIGQDNAKRSVAIALRNRWRRMQLNEELRHEVTPKNILMIGPTGVGKTEIARRLAKLANAPFIKVEATKFTEVGYVGKEVDSIIRDLTDAAVKMVRVQAIEKNRYRAEELAEERILDVLIPPAKNNWGQTEQQQEPSAARQAFRKKLREGQLDDKEIEIDLAAAPMGVEIMAPPGMEEMTSQLQSMFQNLGGQKQKARKLKIKDAMKLLIEEEAAKLVNPEELKQDAIDAVEQHGIVFIDEIDKICKRGESSGPDVSREGVQRDLLPLVEGCTVSTKHGMVKTDHILFIASGAFQIAKPSDLIPELQGRLPIRVELQALTTSDFERILTEPNASITVQYKALMATEGVNIEFTDSGIKRIAEAAWQVNESTENIGARRLHTVLERLMEEISYDASDLSGQTIIIDADYVSKHLDALVADEDLSRFIL |
| 3508 | sp|P12811|HS22C\_CHLRE | MALSNYVFGNSAADPFFTEMDRAVNRMINNALGVAPTSAGKAGHTHAPMDIIESPTAFELHADAPGMGPDDVKVELQEGVLMVTGERKLSHTTKEAGGKVWRSERTAYSFSRAFSLPENANPDGITAAMDKGVLVVTVPKREPPAKPEPKRIAVTGA |
| 3509 | sp|P30222|HS22C\_PETHY | MACKTLTCSASPLVSNGVVSATSRTNNKKTTTAPFSVCFPYSKCSVRKPASRLVAQATGDNKDTSVDVHVSNNNQGGNNQGSAVERRPRRMALDVSPFGLLDPMSPMRTMRQMMDTMDRLFEDTMTFPGSRNRGTGEIRAPWDIKDDENEIKMRFDMPGLSKEEVKVSVEDDVLVIKGEHKKEESGKDDSWGRNYSSYDTRLSLPDNVDKDKVKAELKNGVLLISIPKTKVEKKVTDVEIK |
| 3510 | sp|P12810|HS16A\_WHEAT | MSIVRRSNVFDPFADLWADPFDTFRSIVPAISGGSSETAAFANARVDWKETPEAHVFKVDLPGVKKEEVKVEVEDGNVLVVSGERSREKEDKNDKWHRVERSSGKFVRRFRLPEDAKVEEVKAGLENGVLTVTVPKAEVKKPEVKAIEISG |
| 3511 | sp|A9N9F8|HSLU\_COXBR | MTMTPREIVAELDKFIIGQNDAKRAVAIALRNRWRRMQLGEELRREIFPKNILMIGPTGVGKTEIARRLSDLAGAPFLKIEATKFTEVGYVGRDVESIIRDLVDVAVKMTREKAIRQVKSLAEEAAEERVLDALIPPARGGFQGEPTAEEKPTEKKESATRQLFRKKLRNGELDDKEIEVEVSAHPSFEIMGPPGMEEMVSQLQGIMSSMSSRRSKSRRLKVKDALRILGEEEAAKLVDEDQIKSTALASVEQNGIVFIDEIDKIVKREGAVGADVSREGVQRDLLPLVEGSTVFTKYGMVKTDHILFIASGAFHIAKPSDLVPELQGRFPIRVELKALTADDFVRILTEPKASLTEQYTELLKTENFGLSFTKDGIKRLAEIAYQVNDRSENIGARRLHTIMERLLEEVSFEATDKQGESITIDADYVNKQLKKLAEDEDLSRYIL |
| 3512 | sp|P24724|HSP90\_THEPA | MTSKDETPDQEVYAFNADISQLLSLIINAFYSNKEIFLRELISNASDALEKIRYEAIKDPKQIEDQPDYYIRLYADKNNNTLTIEDSGIGMTKADLVNNLGTIAKSGTRAFMEALQAGSDMSMIGQFGVGFYSAYLVADKVTVVSKNNADDQYVWESTASGHFTVKKDDSHEPLKRGTRLILHLKEDQTEYLEERRLKELVKKHSEFISFPISLSVEKTQETEVTDDEAELDEDKKPEEEKPKDDKVEDVTDEKVTDVTDEEEKKEEKKKKKRKVTNVTREWEMLNKQKPIWMRLPSEVTNEEYAAFYKNLTNDWEDHLAVKHFSVEGQLEFKALLFVPRRAPFDMFESRKKKNNIKLYVRRVFIMDDCEELIPEWLSFVKGVVDSEDLPLNISRETLQQNKILKVIRKNLVKKCLELFNELTEKKEDFKKFYEQFSKNLKLGIHEDNANRSKIAELLRFETTKSGDELVSLKEYVDRMKSDQKYVYYITGESKQSVASSPFLETLRARDYEVLYMTDPIDEYAVQQIKEFEGKKLKCCTKEGLDLDEGEDEKKSFEALKEEMEPLCKHIKEVLHDKVEKVVCGTRFTDSPCALVTSEFGWSANMERIMKAQALRDSSITSYMLSKKIMEINPRHSIMKELKTRAANDKTDKTVKDLVWLLYDTALLTSGFNLDEPTQFGNRIYRMIKLGLSLDDEEHVEEDSSMPPLDEPVVDSKMEEVD |
| 3513 | sp|Q9PEQ0|HTPG\_XYLFA | MTLEADKQTHGFQTEVKQLLQLMIHSLYSNKEIFLRELISNAADAADKLRFEALSAPALLEEDPNLRIRVEFDKQAHTITIDDNGIGMSRDEAIAHLGTIAKSGTADFLKTLSGDQRKDANLIGQFGVGFYSAFIVADHVDVYSRRAGLTAAEGVHWSSKGEGNFEVATIDKPQRGTRVVLHLKENEQHFAEGWTLRSTLKKYSDHIGLPIEMVKEEHHGKEEEKDAPKEAEWEAVNKASALWTRPKNDIKDEEYQEFYKHISHDMTNPLAWSHNKVEGKLEYTSLLYVPTRAPFDLYHRNAAKGLKLYVQRVFIMDQAEQFLPLYLRFIKGVVDSADLSLNVSREILQSGPVVDSMKAALSKRALDMLEKLAKDAPEDYKTFWKNFGQVLKEGPAEDYSNREKVASLLRFASTYDTSGDPSVALADYIARMKEGQDKLYYLTGESYAQIKDSPYLEVFRKKGIEVLLLVDRIDEWLMNYLHEFDGKSFVDIARGDLDLGNLDSEADKKAQEEIAKTKEALASRIKATLGEDVAEVRVSHRLTDSPAVLAIGEGDLGLQMRQLLEASGQKVPETKPVFEFNPSHPLIEKLDAEQDMDRFADLSHILFDQAALAAGDSLKDPANYVRRLNKLLLELSA |
| 3514 | sp|Q0HHZ5|HTPG\_SHESM | MSQQETHGFQTEVKQLLHLMIHSLYSNKEIFLRELVSNAADAADKLRYLALTNDALYEGDGELRVRISADKEKGTVTIEDNGVGMTRDGVIEHLGTIAKSGTAEFFKNLSGEASKDSQLIGQFGVGFYSAFIVAKKVTVRTRAAGHKANEAVLWESEGEGSFTVDTITKASRGTEITLHLRDEEKEFADEWRLRSIITKYSDHISVPVEMWQEGTPERDGPDGEKIPATEGYWKVMNKATALWMRNKSEISDEEYQEFYKHISHDYTDALLWSHNRVEGKQEYTNLLYIPSKAPWDLWNRDRKHGLKLFVQRVFIMDDAEQFMPSYLRFVQGLIDSNDLPLNVSREILQDNHITKAMRTGITKRVLGMLEKLAKDDAEKYQQFWAEFGQVLKEGPAEDFANRERIAGLLRFASTHTGSAAPTVSLDDYLSRMKEGQTKIYYIVADSHEAAANSPHLELLRKKGIEVLLMSERIDEWLINHLTEYKEKQLHSVTRGELELGELEDAAEKEAQEKLAEESAPLVERIKAALGASVADVKVTSRLTDTPACVVTGEGEMSSQMIKLMQAAGQPVPEVKPTFEINPAHPLVSRLNDLQDEAAFADWSNLLLQQAQLSEKGSLADPSAFIKLMNQMLLANLK |
| 3515 | sp|B2A875|HTPG\_NATTJ | MATQEFQAETKRLLDIVINSIYSNKEIFLRELISNASDAIDKLYYKSLTDNSLDFNKDDYYIKITVDKENRQLKISDTGIGMTRQELEDNIGVIARSGSLDFKKANEQEIKDGHDIIGQFGVGFYSAFMVAEEVTIISKAYGSDHAYKWESEGIEGYSVSPTEKESVGTDVILKIKENTDDEDYDQYLDEHRLKSIVKKYSDFIRYPIKMDLTKSKPKDDNEEEYEEYIEEETVNTMVPIWERNKNELTDEDYKNFYRERHYGFDEPITHIHINAEGTISFKAVLFIPERPPFNFYTKEFEKGLELYSNGVLIMNKCPDLLPDYFSFVRGVVDSEDLSLNISREMLQQDKQLKLIAKNIKNKVKKELKNVMENDREKYEEFFESFGTLLKYGIYSEFGQNKETLQDLLLFYSSKENKMVSLDEYISRMGEDQKYIYYATGESVERIDKLPQTEFVKDKGYEVLYLTEDVDEFAIKMMGSYQDVEFKSVSSKDLGLDSEDEETSDEKEKEYKGMFDKMAEILSDKVNTVRASERLKDHPVCLANEGEISIEMEKVLQSMPNNQNVQAEKALEINVNHDVFDKLTEAYEQDEDKFKLYTDLLYNQACLIEGLPIEDPVKYTNNVCKIMS |
| 3516 | sp|Q9ZCB9|HTPG\_RICPR | MTQEKKKFDAEVGKILNLMIHSLYSNKEIFMRELISNASDACDKLRYLSQSNSELIAGDSNFKIIVKVDKDNGQIIIRDNGIGMNKEDLIENLGTIARSGTANFLKNLSGDSKKDNMLIGQFGVGFYSSFMVADKVTVTSRKAGESKVHTWESDGLGEYIVADSEQEFTRGTEIVLYIKKSETTFLDHFRLKHIVKSYSDHIAVPIYFCDEAGNNEIQLNSASALWTRPKSEITEDQYKEFYKSLSYAVDDPWVTLHNKNEGAIEFTNLLFIPSSKTFDLFHPDRKKRVKLYIKRVFISDENIDLIPSYLRFLRGVVDSEDLPLNISRESLQHNNVLEKIKNAITKRVLGELRKKKEELPEEYNKFWTNFGGALKEGLCEATTDHEKLLEVCIFRSALHNKMISIDEYIANFKEGQNTIYYLSGDNPDKLLSSPQIEGLLNKNIDVLLFTDTVDDFWVNVNSEYKGYAIKSATRSDIDVEQTTSQPKDKNTDSKKSDNEYKLLTDYFKEILGELVKEVKISKKLTLSPACLAVSDTAMDIRMERFLIEQKQIANASAKNLELNPKNKIIEKIFNDLKANNKNNNELVNLIFDQACILEGEPVADTGAFSKRLNDILQKAIL |
| 3517 | sp|P81161|HS22M\_SOLLC | FNTNTQMTAYDQDRMXXXXLPVENVRVALEENTLIMKNGVLKVAVPKVKQEERKDV |
| 3518 | sp|Q1R3Y6|HSLU\_ECOUT | MSEMTPREIVSELDKHIIGQDNAKRSVAIALRNRWRRMQLNEELRHEVTPKNILMIGPTGVGKTEIARRLAKLANAPFIKVEATKFTEVGYVGKEVDSIIRDLTDAAVKMVRVQAIEKNRYRAEELAEERILDVLIPPAKNNWGQTEQQQEPSAARQAFRKKLREGQLDDKEIEIDLAAAPMGVEIMAPPGMEEMTSQLQSMFQNLGGQKQKARKLKIKDAMKLLIEEEAAKLVNPEELKQDAIDAVEQHGIVFIDEIDKICKRGESSGPDVSREGVQRDLLPLVEGCTVSTKHGMVKTDHILFIASGAFQIAKPSDLIPELQGRLPIRVELQALTTSDFERILTEPNASITVQYKALMATEGVNIEFTDSGIKRIAEAAWQVNESTENIGARRLHTVLERLMEEISYDASDLSGQTITIDADYVSKHLDALVADEDLSRFIL |
| 3519 | sp|B5YZ71|HSLU\_ECO5E | MSEMTPREIVSELDKHIIGQNNAKRSVAIALRNRWRRMQLNEELRHEVTPKNILMIGPTGVGKTEIARRLAKLANAPFIKVEATKFTEVGYVGKEVDSIIRDLTDAAVKMVRVQAIEKNRYRAEELAEERILDVLIPPAKNNWGQTEQQQEPSAARQAFRKKLREGQLDDKEIEIDLAAAPMGVEIMAPPGMEEMTSQLQSMFQNLGGQKQKARKLKIKDAMKLLIEEEAAKLVNPEELKQDAIDAVEQHGIVFIDEIDKICKRGESSGPDVSREGVQRDLLPLVEGCTVSTKHGMVKTDHILFIASGAFQIAKPSDLIPELQGRLPIRVELQALTTSDFERILTEPNASITVQYKALMATEGVNIEFTDSGIKRIAEAAWQVNESTENIGARRLHTVLERLMEEISYDASDLSGQNITIDADYVSKHLDALVADEDLSRFIL |
| 3520 | sp|O35878|HSPB2\_RAT | MSGRTVPHAHPATAEYEFANPSRLGEQRFGEGLLPEEILTPTLYHGYYVRPRAARAGEGGRAGASELRLSEGKFQAFLDVSHFTPDEVTVRTVDNLLEVSARHPQRLDRHGFVSREFCRTYVLPADVDPWRVRAALSHDGILNLEAPRGGRHLDTEVNEVYISLLPAPPDPEEEEEVARVEP |
| 3521 | sp|Q4ZZF8|HSLU\_PSEU2 | MSMTPREIVHELNRHIIGQDDAKRAVAIALRNRWRRMQLPEELRVEVTPKNILMIGPTGVGKTEIARRLAKLANAPFIKVEATKFTEVGYVGRDVESIIRDLADAAIKLLREQEIVKVRHRAEDAAEERILDALLPPARVGFNEDPAQSSDSNTRQLFRKRLREGQLDDKEIEIEINEAVGVDISAPPGMEEMTNQLQSLFANMGKGKTKSRKLKVKEALKLVREEEAGRLVNEEELKAKALEAVEQHGIVFIDEIDKVAKRGNSGGVDVSREGVQRDLLPLIEGCTVNTKLGMVKTDHILFIASGAFHLSKPSDLVPELQGRLPIRVELKALSPQDFERILSEPHASLTEQYRELLKTEGLKIEFKPEGIKRLAEIAWQVNEKTENIGARRLHTLLERLLEEVSFSAGDLAISPDAAPIEIDAEYVNSHLGDLAENEDLSRYIL |
| 3522 | sp|B0VDQ0|HTPX\_ACIBY | MMRIGLFLLTNLAVLVVAGIILSLFGVGSYHGAGGLNLGNLLVICFVFGMVGSLVSLFMSKWMAKKTTGTELIDPNAPRNQAESWLLQTVAELSQRAGINMPEVGIFPSYQSNAFATGWNKNDALVAVSSGLLERMNKDELRAVLAHEIGHVANGDMVTLALIQGVVNAFVMFFARVVGDFIDRNVFGRQDNEAPGMGYFIITMVLDIVFGILASAIVMWFSRYREYRADEAGARLAGKQAMISALLRLQAETELPDQMPKEMKAFAIAEGKEQGFSLAALFQTHPTIEQRVAALHQLDCP |
| 3523 | sp|Q32HU0|HSPQ\_SHIDS | MIASKFGIGQQVRHSLLGYLGVVVDIDPVYSLSEPSPDELAVNDELRAAPWYHVVMEDDNGLPVHTYLAEAQLSSELQDERPEQPSMDELAQTIRKQRQAPRLRN |
| 3524 | sp|Q6D6C5|HSPQ\_PECAS | MIISKFGLGQQIRHKLLGFPGVIIDIDPEYSLETPTWEEISGNDTPRSEPWYHVVMEDNEGQPMHTYLAEAHLMKEELSEHDHPSLNELAEVIQRRAPQLRH |
| 3525 | sp|B7UN45|HSPQ\_ECO27 | MIASKFGIGQQVRHSLLGYLGVVVDIDPVYSLSEPSPDELAVNDELRAAPWYHVVMEDDNGLPVHTYLAEAQLSSELQDEHPEQPSMDELAQTIRKQLQAPRLRN |
| 3526 | sp|B5R6D2|HSPQ\_SALG2 | MIASKFGIGQQVRHSLLGYLGVVVDIDPEYSLDEPSPDELAVNDELRAAPWYHVVMEDDDGQPVHTYLAEAQLRSEMRDEHPEQPSMDELARTIRKQLQAPRLRN |
| 3527 | sp|Q5EBG6|HSPB6\_MOUSE | MEIPVPVQPSWLRRASAPLPGFSAPGRLFDQRFGEGLLEAELASLCPAAIAPYYLRAPSVALPTAQVSTDSGYFSVLLDVKHFLPEEISVKVVDDHVEVHARHEERPDEHGFIAREFHRRYRLPPGVDPAAVTSALSPEGVLSIQATPASAQAQLPSPPAAK |
| 3528 | sp|A8LPA9|HSLU\_DINSH | MTDLTPREIVSELDRFIIGQKDAKRAVAVALRNRWRRKQLSDDLREEVYPKNILMIGPTGVGKTEISRRLAKLARAPFIKVEATKFTEVGYVGRDVEQIIRDLVENAITMTRDHMREEVKANAHQAAEERVIEAIAGSDAREATREMFRKKLKAGELDDTVIELEVADTSNPMSMFEIPGQPGMNPMGGGMDLVELFGKAFGGRTVRKKLTVAQSYEVLISEEADKLLDDEAVNRSAVTAVEQNGIVFLDEIDKVCARSDARGADVSREGVQRDLLPLIEGTTVSTKYGPVKTDHVLFIASGAFHIAKPSDLLPELQGRLPIRVELRPLTEQDFVRILTETDNALTLQYTALMGTESVTVTFAEDGIAALARIAAEVNQSVENIGARRLYTVMERVFEELSFAAPDRSGDEITVDAEFVEANLGALTRDTDLSRYVL |
| 3529 | sp|P19378|HSP7C\_CRIGR | MSKGPAVGIDLGTTYSCVGVFQHGKVEIIANDQGNRTTPSYVAFTDTERLIGDAAKNQVAMNPTNTVFDAKRLIGRRFDDAVVQSDMKHWPFMVVNDAGRPKVQVEYKGEAKSFYPEEVSSMVLTKMKEIAEAYLGKTVTNAVVTVPAYFNDSQRQATKDAGTIAGLNVLRIINEPTAAAIAYGLDKKVGAERNVLIFDLGGGTFDVSILTIEDGIFEVKSTAGDTHLGGEDFDNRMVNHFIAEFKRNDKKDISENKRAVRRLRTACERAKRTLSSSTQASIEIDSLYEGIDFYTSITRARFEELNADLFRGTLDPVEKALRDAKLDKSQIHDIVLVGGSTRIPKIQKLLQDFFNGKELNKSINPDEAVAYGAAVQAAILSGDKSENVQDLLLLDVTPLSLGIETAGGVMTVLIKRNTTIPTKQTQTFTTYSDNQPGVLIQVYEGERAMTKDNNLLGKFELTGIPPAPRGVPQIEVTFDIDANGILNVSAVDKSTGKENKITITNDKGRLSKEDIERMVQEAEKYKAEDEKQRDKVSSKNSLESYAFNMKATVEDEKLQGKINDEDKQKILDKCNEIISWLDKNQTAEKEEFEHQQKELEKVCNPIITKLYQSAGGMPGGMPGGFPGGGAPPSGGASSGPTIEEVD |
| 3530 | sp|B6IWI0|HSLU\_RHOCS | MTSFSPREIVSELDRYIVGQHEAKRAVAIALRNRWRRQQLPEGLREEVLPKNILMIGPTGVGKTEIARRLARLAQAPFLKVEATKFTEVGYVGRDVEQIIRDLVEIAIGLTRERLRKEVASKAELRAEDRVLEALVGANASGETRQKFRKMLREGQLNDREIEIQVQDTSVQGLPTFDVPGMPGAQMGMINLGDIFGKALGGRTKVRRMSVSESYDVLMAEESDKLLDQEKVVSEAIQSVEQNGIVFLDEIDKITARSEVRGGADVSREGVQRDLLPLIEGTTVNTKHGPVKTDHVLFIASGAFHLAKPSDLLPELQGRLPIRVELKALSQEDFRRILTEPEASLIKQYKALLATEGMTLDFTDDGIDELARLAADINRSVENIGARRLHTVLERLLEEISFTASDRSGESVTIDAAYVRGQLQGLAQNTDLSKFIL |
| 3531 | sp|Q1C4P8|HTPG\_YERPA | MNMKGQETRGFQSEVKQLLHLMIHSLYSNKEIFLRELISNASDAADKLRFRALSNPELFEGDGELRVRLSFDKEKRTLTLSDNGIGMTRDEVIDNLGTIAKSGTKAFLESIGSDQAKDSQLIGQFGVGFYSAFIVADKVTVRTRAAGAPADTGVFWESAGEGDYTIADITKDERGTEITLHLREGEDEYLDDWRLRSVISKYSDHIALPVEIQVKNEEDGTVTWEKINKAQALWTRGKAEISDDEYKAFYKHIAHDFTDPLSWSHNRVEGKQEYTSLLYIPAQAPWDMWNRDHKHGLKLYVQRVFIMDEAEQFMPNYLRFVRGLIDSNDLPLNVSREILQDSRITQNLRSALTKRVLQMLEKLAKDDAEKYQQFWQQFGMALKEGPAEDGSNKETIAKLLRFASTHTDSSAQTVSLEDYVSRMAEGQEKIYYITADSYAAAKSSPHLELFRKKGIEVLLLSDRIDEWMMSYLTEFEGKAFQSVSKADDSLNKLADEENPEQQEAEKALEPFVERVKTLLGERVKDVRLTHRLTDTPAIVTTDADEMSTQMAKLFAAAGQQAPEVKYIFELNPDHGLVKRAAEVTDDTQFAQWVELLLDQALLAERGTLEDPNQFIRRMNQLLTA |
| 3532 | sp|A8GAV2|HTPG\_SERP5 | MSMKGQETRGFQSEVKQLLHLMIHSLYSNKEIFLRELISNASDAADKLRFRALSAPELYEGDGELRVRLSFDKDQRTLTIADNGIGMNREEVIENLGTIAKSGTKAFLESIGSDQAKDSQLIGQFGVGFYSAFIVADKVTVRTRAAGAAADQGVFWESIGEGDYTIADVSKEDRGTEITLHLREGEDEYLDAWRLRSVIGKYSDHIALPVEIETKNEEDGTVTWEKINKAQALWTRSKADVTDEEYKEFYKHIAHDFTDPLSWSHNRVEGKQEYTSLLYIPAQAPWDMWNRDHKHGLKLYVQRVFIMDEAEQFMPNYLRFVRGLIDSNDLPLNVSREILQDSRVTQNLRGALTKRVLQMLEKLAKDDAEGYQKFWQQFGLVLKEGPAEDANNKETIAKLLRFASTQSESSAQTVSLEEYVGRMAEGQEKIYYITADSYAAAKSSPHLELFRKKGIEVLLLSDRIDEWMMSYLTEFDGKPFQSVSKADDALDKLADETEEQKAAEKQLEPFVDRVKTLLGDRVKDVRLTHRLTDTPAIVITDADEMSTQMAKLFAAAGQEAPAVKYIFELNPEHALVKRASDVGDNEQFAEWIDLLLDQALLAERGTLEDPNQFIRRMNKLLSA |
| 3533 | sp|C3LTN3|HTPG\_VIBCM | MSETATTNKETRGFQSEVKQLLHLMIHSLYSNKEIFLRELISNASDAVDKLRFQALSHPDLYQGDAELGVKLSFDKDKNTLTISDNGIGMTRDEVIENLGTIAKSGTAEFFSKLSQEQSKNSQLIGQFGVGFYSAFIVADAVTVRTRAAGSAPADAVQWYSKGEGEYTVETINKESRGTDIILHLREEGKEFLSEWRLRDVISKYSDHIGIPVYIQTSVMDEEGKATEETKWEQINKAQALWTRAKSEVTDEEYKEFYKHVSHDFADPLVWSHNKVEGKNDYTSLLYIPAKAPWDLFNREHKHGLKLYVQRVFIMDDAAQFMPSYLRFVRGLIDSNDLPLNVSREILQDNKITQSLRQACTKRVLTMLERMASNDADNYQKFWKEFGLVMKEGPAEDFANREKIASLLRFASTHIDSAEQTISLASYVERMKEGQDKIYYLTADSYTAAKNSPHLEQFKSKGIEVILMFDRIDEWLMNYLPEFEGKAFQSITKAGLDLSQFEDEAEKEKHKETEEQFKSVVERLKGYLGSRVKEVRTTFKLANTPAVVVTDDYEMGTQMAKLLAAAGQPVPEVKYILEVNPEHALVKRMADEADEQTFGRWAEVLLGQAMLAERGSMEDPSQFLGAVNQLLAPSH |
| 3534 | sp|P0DMV9|HS71B\_HUMAN | MAKAAAIGIDLGTTYSCVGVFQHGKVEIIANDQGNRTTPSYVAFTDTERLIGDAAKNQVALNPQNTVFDAKRLIGRKFGDPVVQSDMKHWPFQVINDGDKPKVQVSYKGETKAFYPEEISSMVLTKMKEIAEAYLGYPVTNAVITVPAYFNDSQRQATKDAGVIAGLNVLRIINEPTAAAIAYGLDRTGKGERNVLIFDLGGGTFDVSILTIDDGIFEVKATAGDTHLGGEDFDNRLVNHFVEEFKRKHKKDISQNKRAVRRLRTACERAKRTLSSSTQASLEIDSLFEGIDFYTSITRARFEELCSDLFRSTLEPVEKALRDAKLDKAQIHDLVLVGGSTRIPKVQKLLQDFFNGRDLNKSINPDEAVAYGAAVQAAILMGDKSENVQDLLLLDVAPLSLGLETAGGVMTALIKRNSTIPTKQTQIFTTYSDNQPGVLIQVYEGERAMTKDNNLLGRFELSGIPPAPRGVPQIEVTFDIDANGILNVTATDKSTGKANKITITNDKGRLSKEEIERMVQEAEKYKAEDEVQRERVSAKNALESYAFNMKSAVEDEGLKGKISEADKKKVLDKCQEVISWLDANTLAEKDEFEHKRKELEQVCNPIISGLYQGAGGPGPGGFGAQGPKGGSGSGPTIEEVD |
| 3535 | sp|Q00445|HS21C\_WHEAT | MAAANAPFALVSRLSPAARLPIRAWRAARPAPLSTGGRTRPLSVASAAQENRDNSVDVQVSQAQNAGNQQGNAVQRRPRRAGFDISPFGLVDPMSPMRTMRQMLDTMDRLFDDAVGFPTRRSPAARARRRMPWDIMEDEKEVKMRFDMPGLSREEVRVMVEDDALVIRGEHKKEAGEGQGEGGDGWWKERSVSSYDMRLALPDECDKSQVRAELKNGVLLVSVPKRETERKVIDVQVQ |
| 3536 | sp|O59838|HSP7F\_SCHPO | MSSRTNVVGIDFGNSKTVIAVARNRAIDVIVNEVSNRSTPSLVSYGERSRFLGEAAKSAEASNFRNTVGSLKRLAGRTYDDPEIKDIESNFISAKLTEVDGFVGAKVQYLNEETAFSNIQLIAAYFTKIKAIAEAELIGSVSDVVISIPAWFTDIQRRALLEAANIAGLNPLRLMNDNAAAALTYGITKTDLPEPESPRRVAIVDFGHSNYSVSIVEFSRGQFHIKSTVCDRNLGSRNMDKALIDYFAAEFKEKYKIDVLSNPKATFRLATAVERLKKVLSANANAPLNVEMIMNDIDASSFIKRSDFEELIKPLLERLTPPIEKALELAGIKKEDLYSIEMVGGCTRVPIVKEVIANYFGKGLSFTLNQDEAVARGCALSCAILSPVFRVREFHVHDVTTYPITFSWEPIPENPEEDSSLEVFSEGNPIPSTKILTFYRKAPFKLLAAYSKEAQLPGSIKQNIAQYLINDVVPNKDGDLSIVKIKVRLDLHGILVVEQAYIVEEQEVEEPVETSPEEEAEKKTDEPVKMRKVKKLVKVADLSVSVQEDRLPTEVLEKYREAEHQMIATDKLVAETVDRKNALEEYIYDTRAKLDDIYAPFTNEEESSKFKEMLTKAEDWLYEEGEDTTKAVYTAKLEDLMRVGGPIRQRYLDAEEAKRQKVQAEREAAKAATKSEAEKQKPSGKFEEGTGGRAPPPPPAEEVAPENEEVETMEIDEQKE |
| 3537 | sp|Q1CL28|HTPG\_YERPN | MNMKGQETRGFQSEVKQLLHLMIHSLYSNKEIFLRELISNASDAADKLRFRALSNPELFEGDGELRVRLSFDKEKRTLTLSDNGIGMTRDEVIDNLGTIAKSGTKAFLESIGSDQAKDSQLIGQFGVGFYSAFIVADKVTVRTRAAGAPADTGVFWESAGEGDYTIADITKDERGTEITLHLREGEDEYLDDWRLRSVISKYSDHIALPVEIQVKNEEDGTVTWEKINKAQALWTRGKAEISDDEYKAFYKHIAHDFTDPLSWSHNRVEGKQEYTSLLYIPAQAPWDMWNRDHKHGLKLYVQRVFIMDEAEQFMPNYLRFVRGLIDSNDLPLNVSREILQDSRITQNLRSALTKRVLQMLEKLAKDDAEKYQQFWQQFGMALKEGPAEDGSNKETIAKLLRFASTHTDSSAQTVSLEDYVSRMAEGQEKIYYITADSYAAAKSSPHLELFRKKGIEVLLLSDRIDEWMMSYLTEFEGKAFQSVSKADDSLNKLADEENPEQQEAEKALEPFVERVKTLLGERVKDVRLTHRLTDTPAIVTTDADEMSTQMAKLFAAAGQQAPEVKYIFELNPDHGLVKRAAEVTDDTQFAQWVELLLDQALLAERGTLEDPNQFIRRMNQLLTA |
| 3538 | sp|A6W2U6|HSLU\_MARMS | MSSMTPRETVNALDNHIIGQQKAKRAVAIALRNRWRRMQLPEEMRAEVTPKNILMIGPTGVGKTEIARRLAKLANAPFIKIEATKFTEVGYVGRDVESIIRDLVEMAIKMLREQETAKLRHKAEDAAEDRILDVLLPPARGGDPELEDNSTRQTFRKKLREGQLDDKEIDIDVADSPMGVEIMTPPGMEEMTSQLQNLFSSFGSQKTKKRKMKVKDAFRQVRDEEAAKLVNEEELKARAVEAVEQNGIVFLDEIDKVAKSSERSGGEVSREGVQRDLLPLVEGCTVSTKYGMIKTDHILFIASGAFHLSKPSDLIPELQGRLPIRVELDALTVDDFKRILVEPSMSLTKQYVALAKTEHINLNFTEEGIHRIAEIAFQVNERTENIGARRLHTVLERLLEEVSYSASDMPNDQTVDITAAYVDEQLGEIAENEDLSQYIL |
| 3539 | sp|B6I941|HSPQ\_ECOSE | MIASKFGIGQQVRHSLLGYLGVVVDIDPVYSLSEPSPDELAVNDELRAAPWYHVVMEDDNGLPVHTYLAEAQLSSELQDEHPEQPSMDELAQTIRKQLQAPRLRN |
| 3540 | sp|Q21SJ8|HTPG\_RHOFT | MTKQTLSFQAEVAQLLHLVTHSLYSNKEIFLRELISNASDACDKLRYEAINDSGLYEDAPTLEVRVSFDPAAKTLTISDNGIGMSAQEAIDHLGTIAKSGTKDFVSKLSGDQKADSQLIGQFGVGFYSGFIVADKITVESRRAGMKASEGVRWISGGAGDFEVETIERAARGTSVILHLRDDAMDYCSAWKLKSIINKYSDHISLPILMEKEEWKDGELINPSDEKGGRQPGGMVKTGEWETVNKGNAIWARAKKDITPEQYTEFYKQISHDFEAPLAYTHNRVEGSTEYTQLLYLPSKAPMDLFNREKSAGVKLYVKRVFIMDDAEALLPTYLRFVKGVVDSADLPLNVSRELLQESRDVKAIREGCTKRVLGMLEDLAKHDKLPAPSADGGTDTTAGVSDVLSEEDKANEGKYSKFYAEFGAVLKEGLGEDYANKDRLAKLLRFASSSTDTVSVSFADYKARMKEGQEAIYYITADTPAAAKNSPQLEVFKKKGIEVLLMTDRVDEWALNYLQEFDGTPLQSVAKGAVDLGKLQDEAEKKAAEEAAETFKPLLAKLKEALKDKAEDVRVTTRLVDSPACLVVQDHGMSTQLARMLKQAGQAAPDVKPVLEVNAEHPLVKKLDGSVHFNDLAHILFDQALLAEGGLPADPAAYVKRVNALLV |
| 3541 | sp|A4TPA5|HTPG\_YERPP | MNMKGQETRGFQSEVKQLLHLMIHSLYSNKEIFLRELISNASDAADKLRFRALSNPELFEGDGELRVRLSFDKEKRTLTLSDNGIGMTRDEVIDNLGTIAKSGTKAFLESIGSDQAKDSQLIGQFGVGFYSAFIVADKVTVRTRAAGAPADTGVFWESAGEGDYTIADITKDERGTEITLHLREGEDEYLDDWRLRSVISKYSDHIALPVEIQVKNEEDGTVTWEKINKAQALWTRGKAEISDDEYKAFYKHIAHDFTDPLSWSHNRVEGKQEYTSLLYIPAQAPWDMWNRDHKHGLKLYVQRVFIMDEAEQFMPNYLRFVRGLIDSNDLPLNVSREILQDSRITQNLRSALTKRVLQMLEKLAKDDAEKYQQFWQQFGMALKEGPAEDGSNKETIAKLLRFASTHTDSSAQTVSLEDYVSRMAEGQEKIYYITADSYAAAKSSPHLELFRKKGIEVLLLSDRIDEWMMSYLTEFEGKAFQSVSKADDSLNKLADEENPEQQEAEKALEPFVERVKTLLGERVKDVRLTHRLTDTPAIVTTDADEMSTQMAKLFAAAGQQAPEVKYIFELNPDHGLVKRAAEVTDDTQFAQWVELLLDQALLAERGTLEDPNQFIRRMNQLLTA |
| 3542 | sp|Q13E33|HSLU\_RHOPS | MTDFSPREIVSELDRFIVGQADAKRAVAIALRNRWRRLQLEGILREEVLPKNILMIGPTGVGKTEIARRLAKLAGAPFLKVEATKFTEVGYVGRDVEQIIRDLVEVAIAQVRERKRKDVQARAQIAAEERVLDALVGPGSSPATRDSFRRKLRAGDLNDKEIEVETQASSGSPMFEIPGMPGGQIGAISIGDIFGKMGGRTKTRRLTVADSHDILINEEADKLLDNDQLVQEAINVVENNGIVFLDEIDKICVRDGRSGGEVSREGVQRDLLPLIEGTTVATKHGAVKTEHILFIASGAFHIAKPSDLLPELQGRLPIRVELNALTRDDMRRILTEPEASLIKQYIALLQTEGVTLEFSDDAIDALADVAVGVNSTVENIGARRLQTVMERVLDEISFVAPDRGGETIRIDADYVQKNVGDLAKNTDLSRFIL |
| 3543 | sp|P06660|HSP85\_TRYCR | MTETFAFQAEINQLMSLIINTFYSNKEIFLRELISNSSDACDKIRYQSLTNQAVLGDESHLRIRVVPDKANKTLTVEDTGIGMTKAELVNNLGTIARSGTKAFMEALEAGGDMSMIGQFGVGFYSAYLVADRVTVVSKNNDDEAYTWESSAGGTFTVTPTPDCDLKRGTRIVLHLKEDQQEYLEERRLKDLIKKHSEFIGYDIELMVEKATEKEVTDEDEDEAAATKNEEGEEPKVEEVKDDAEEGEKKKKTKKVKEVTQEFVVQNKHKPLWTRDPKDVTKEEYAAFYKAISNDWEEPLSTKHFSVEGQLEFRAILFVPKRAPFDMFEPSKKRNNIKLYVRRVFIMDNCEDLCPEWLAFVRGVVDSEDLPLNISRENLQQNKILKVIRKNIVKKALELFEEIAENKEDYKKFYEQFGKNVKLGIHEDSANRKKLMELLRFHSSESGEDMTTLKDYVTRMKEGQKCIYYVTGDSKKKLETSPFIEQARRRGFEVLFMTEPIDEYVMQQVKDFEDKKFACLTKEGVHFEETEEEKKQREEEKTAYERLCKAMKDVLGDKVEKVVVSERLATSPCILVTSEFGWSAHMEQIMRNQALRDSSMSAYMMSKKTMEINPAHPIVKELKRRVEADENDKAVKDLVYLLFDTALLTSGFTLDDPTSYAERIHRMIKLGLSLDDEDNGNEEAEPAAAVPAEPVAGTSSMEQVD |
| 3544 | sp|Q8GUM2|HSP7I\_ARATH | MASVALLRSFRRREVQMASVSAFKSVSANGKNSMFGKLGYLARPFCSRPVGNDVIGIDLGTTNSCVSVMEGKTARVIENAEGSRTTPSVVAMNQKGELLVGTPAKRQAVTNPTNTIFGSKRLIGRRFDDPQTQKEMKMVPYKIVKAPNGDAWVEANGQKFSPSQIGANVLTKMKETAEAYLGKSINKAVVTVPAYFNDAQRQATKDAGKIAGLDVQRIINEPTAAALSYGMNNKEGVIAVFDLGGGTFDVSILEISSGVFEVKATNGDTFLGGEDFDNTLLEYLVNEFKRSDNIDLTKDNLALQRLREAAEKAKIELSSTTQTEINLPFITADASGAKHLNITLTRSKFEGLVGKLIERTRSPCQNCLKDAGVTIKEVDEVLLVGGMTRVPKVQEIVSEIFGKSPCKGVNPDEAVAMGAAIQGGILRGDVKDLLLLDVVPLSLGIETLGAVFTKLIPRNTTIPTKKSQVFSTAADNQMQVGIKVLQGEREMAADNKVLGEFDLVGIPPAPRGMPQIEVTFDIDANGITTVSAKDKATGKEQNITIRSSGGLSDDEINRMVKEAELNAQKDQEKKQLIDLRNSADTTIYSVEKSLSEYREKIPAEIASEIETAVSDLRTAMAGEDVEDIKAKVEAANKAVSKIGEHMSKGSGSSGSDGSSGEGTSGTEQTPEAEFEEASGSRK |
| 3545 | sp|P42370|HRCA\_LACLM | MITERQRQILNLIVSLYAKDHTPIGSKSLLDSIQASSATIRNDMKALERLGLIQKEHTSSGRIPSVSGYKYFVENVIQLEEFSQNDLFKVMKAFDGDFYRLSDLFKTAAKSLSELTGLTSFVLNAPQRDQQLVSFEMVMLDNHSVLSVITLGTGEVRTNQFILPKSMTEADLAVFSNLVKERLVGKKVIDIHYTLRTEIPQIVQRYFKVTSEVLQLFESIFDDLFKEHLTVAGHKNIFDYATDNLAELYKLFSDDERMLHEIREITNNDEMRAVKFDNDEKFMKNLTIISQKFVIPYRGFGTLTVVGPVEMDYQRTLSVLDLVAKVLTMKLSDYYRYLDGNHYEISK |
| 3546 | sp|A7HSH7|HSLU\_PARL1 | MTSFSPREIVSELDRYIVGQRDAKRAVAIALRNRWRRQQLPDALRDEVLPKNILMIGPTGVGKTEISRRLAKLAEAPFLKVEATKFTEVGYVGRDVEQIIRDLVEIALAMTRERKRKDVQAKAHVAAEGRVLDALVGANASEATRESFRRKLRDGELDEKEIEVEVADSGGGMPTFDIPGMPGSQMGMINLSDIMGKAFGGRTKTRRMAVRDSYDVLVAEESDKLLDQEQLTQEAIRSVENNGIVFLDEIDKICARAERQGGDVSREGVQRDLLPLIEGTTVATKHGAVKTDHILFIASGAFHIAKPSDLLPELQGRLPIRVELQALSKDDMRRVLTEPEASLIKQYVALLNTENVTLDFTDDGIDAIADIATSVNSTVENIGARRLHTVMERVLDEVSFAATDKAGETVTIDGAYVRKHLGDLSKNTDLSKFIL |
| 3547 | sp|Q12IT8|HSLU\_SHEDO | MSEMTPREIVHELDAHIIGQNKAKRAVAVALRNRWRRMQLAPDLRQEVTPKNILMIGPTGVGKTEIARRLAKLANAPFIKVEATKFTEVGYVGKEVEQIIRDLTDSAVKMTREQQMKKCRFRAEELAEERILDALLPKAKEDWDSEKKDDSGTRQIFRKKLREGQLDDKEIDIDIAAPQIGVEIMAPPGMEEMTNQLQGLFQNLGQSTSKRKKLKIKDAFKQLIEDEAAKLVNQEDLKEQAIDLVEQNGIVFLDEIDKICKRGETSGPDVSREGVQRDLLPLVEGCTVSTKHGMVKTDHILFIASGAFQMSKPSDLIPELQGRLPIRVELDPLTANDFKRILTEPNASLTEQYIALMATEGVTISFLESGIDKLAEAAWQVNERTENIGARRLHTVMEKLMEDISFDASDKSGSAFVIDADYVTEHLDTLVQDEDLSRFIL |
| 3548 | sp|B4TPV2|HSLU\_SALSV | MSEMTPREIVSELNKHIIGQDNAKRSVAIALRNRWRRMQLDEELRHEVTPKNILMIGPTGVGKTEIARRLAKLANAPFIKVEATKFTEVGYVGKEVDSIIRDLTDAAVKMVRVQAIEKNRYRAEELAEERILDVLIPPAKNNWGQAEQQQEPSAARQTFRKKLREGQLDDKEIEINLAAAPMGVEIMAPPGMEEMTSQLQSMFQNLGGQKQKPRKLKIKDAMKLLVEEEAAKLVNPEELKQDAIDAVEQHGIVFIDEIDKICKRGETSGPDVSREGVQRDLLPLVEGCTVSTKHGMVKTDHILFIASGAFQVAKPSDLIPELQGRLPIRVELQALTTSDFERILTEPNASVTVQYKALMATEGVNIEFTDSGIKRIAEAAWQVNETTENIGARRLHTVLERLMEEISYNASDLHGQNITIDAEYVSKHLDALVADEDLSRFIL |
| 3549 | sp|Q6MB28|HRCA\_PARUW | MKIIKPTPIKRVGKHDRERRVLLGLVDYYIQTGKPVGSNTLKEAGFEDLSSATIRNYFAQLEEEGYLLQSHSSGGRIPTDLAYRIYAHAYLNTNEPYPKQNPFEAFKSFESKEIAIFLQEAAEKLSWETNCAVFLSAPRFDHDFIANLKLVPLDAYRCLCIIMTDFGVIKTEVMHLPVKLSSFGIKRIENYFHCRLTNLGEPENLEPEEETVAQTFYNELMLRYIVGYSNFIDVDLYRTGFSRLLFYSDFQDTNLLASSLSLFENAHSMRLLLKECKALNHLRFWIGDDLSSFANSSPRCSVLTIPYYINYKPVGAVGLLGPTRLPYRALFSLLKLFSDCISETVTKNVYKFKIDYRQPEQSLYLKKEESLLIGQSRFLIEDKRP |
| 3550 | sp|Q10PR4|HSFA9\_ORYSJ | MGSKKRSPQHPAAAAPPPAVGGGGGGEVSGDGGASTANGPVVPKPSEVAPFLTKVYDMVSDPATDNVISWAEGGGSFVIWDSHAFERDLHRHFKHSNFTSFIRQLNTYGFRKVHPDRWEWANEGFIMGQKHLLKTIKRRKKSSQESPSEIQKAPVKTAPGTENIEIGKYGGLEKEVETLKRDKALLMQQLVDLRHYQQTSNLEVQNLIERLQVMEQNQQQMMALLAIVVQNPSFLNQLVQQQQQQRRSNWWSPDGSKKRRFHALEQGPVTDQETSGRGAHIVEYLPPVPETSGQVNPVEGAICSANSQPVPSPAVATPMDMQTSNVADTLGSSEEPFADNSTLHEWDDNDMQLLFDDNLDPILPPFENDGQMGPPLSVQDYDFPQLEQDCLMEAQYNSNNPQYADVITEA |
| 3551 | sp|A3M561|HSCA\_ACIBT | MALLQIAEPGQSSAPHQHRIAIGIDLGTTHSLVATVLSGKPKVLNDVQNRRLLPSIVHYGDNTTHYGEEAKPFIIADPKNTIVSVKRFMGRSKADIKFQHPYELVGSENEMPAFETRAGRKTPVEISAEILKQLKARAEDSLQNPVNGAVITVPAYFDEAQRQATRDAAQLAGLNVLRLLNEPTAAAVAYGLDQESNLATDRNYVIYDLGGGTFDVSILRFSQGVFEVLATGGHTALGGDDLDRLIVKWAKKQLNIDVLSDEDYAVFIVAARQAKEQLSTQDSVELKLLEATLTLDRPTFESIIQVALDKTISVCKRVLRDAKLELTDIQNVVLVGGSTRSYAVQKAVREVFAQEPLCTINPDEVVAIGASITANQLIGNSQDGSLLLDVTPLSLGLETMGGLVERLISRNTAIPVARRQEFTTYQDGQTAMLIHVVQGERDLVEHCRSLGRFVLHGIPPMTAGQARIEVTFQVDADGLLTVSAREATSGVQAHIDIKPSYGLSEADTERLLIEGFQHAEEDKNLRHLKETKVEAERELEALEQALKVDADLLDEKQLEALNSAKGSLKAQLEGSDIQAIEQAVQQLKVHSDAFAALRMNRHIDHALKGTKLDDWSKSN |
| 3552 | sp|Q8EWX9|HRCA\_MYCPE | MKEITQRQKELLKYIVEDYVATANPVGSKVVIEKYMPNISAATVRNDMAFLEKLGLLEKNHTSSGRVPSTAGYKFYEKNFSKPYINDENLKLKLRNVFADRTMSIDVVIEESCKIISESTKLPMIKIENNTEVLLKRIDMVEINKQSAMVIVITSDGNLTKNIIHFKDDSILKDISICIRIFNDRLIDCPIKEIATKIDSMKSIIKEKVKEYEFVLQELIERIFQIKSKMIKTVHGQSSLLAVPEFQDTEKLKEILQILESTSIWEQIAFKQNQTGSNTLITFGDEVSHEDIVFAQTDLNINEQNKTKLVMVAPTRVDYSKIKGLLEFIKNEFEKGWK |
| 3553 | sp|B3Q969|HRCA\_RHOPT | MAQHDPIGLIAPNAGLAQLNERSREIFRQIVESYLATGEPVGSRNISRLISVPLSPASVRNVMADLEQLGLIYAPHTSAGRLPTELGLRFFVDALMQIGDLTEPERQSIQAQLSSVGRAHTVEAALGEALTRLSGLTRAAAVVLTAKANVRLKHIEFVRLEPERALVILVAEDGQVENRVLTLPPGVPSSALIEAANYLNARIRGRTLAEARLELESLMVQNKAELDQLTQKVIAAGIASWSGGDGEDRQLIVRGHANLLEDLHALDDLERVRLLFDDLETKRGVIDLLGRAESADGVRIFIGSENKLFSLSGSSTIIAPYSDGAGHIVGVLGVIGPTRLNYARVIPMVDYTARIVSRMLGG |
| 3554 | sp|B8DE36|HRCA\_LISMH | MLTERQLLIFRAIIDHFTWTIQPVGSKNLLKEKGLPYSSATIRNEMGVLEEYGFIEKTHSSSGRVPSEKGYRFYVDYLLQPKKLDKSDRQMIRSFFSENYYEMEGLIQNSALMLSDLTNYTSILLGPEATKNHLSGFRFVPINNFQAMLILITDQGHVDNHLVTIPEGTTLSDIERMVNILNERLVGLSLDDLKVQIPMEVKELLGKHVRNYESFMHVFSDSFAQASQQKVYFGGKTNILNQPEFHDINKVREMLHLMEEEQDVYELFRDIPDGLQVKIGRENNNSLMEDCSIITATYNIAGERVGGIVLLGPTRMEYSRMMGLVDVMSRDLTDVLTKLYRDNQN |
| 3555 | sp|B1X748|HSLO\_ECODH | MPQHDQLHRYLFENFAVRGELVTVSETLQQILENHDYPQPVKNVLAELLVATSLLTATLKFDGDITVQLQGDGPMNLAVINGNNNQQMRGVARVQGEIPENADLKTLVGNGYVVITITPSEGERYQGVVGLEGDTLAACLEDYFMRSEQLPTRLFIRTGDVDGKPAAGGMLLQVMPAQNAQQDDFDHLATLTETIKTEELLTLPANEVLWRLYHEEEVTVYDPQDVEFKCTCSRERCADALKTLPDEEVDSILAEDGEIDMHCDYCGNHYLFNAMDIAEIRNNASPADPQVH |
| 3556 | sp|Q8PAL1|HRCA\_XANCP | MRASQSPMLDPRARHLLRTLIARYIRDGEPVGSKTLAQHAGLDVSPATIRNILADLEDIGLLSSPHTSAGRVPTAHGYRVFVDSLVQMQPPGEEEVRRLRAELASSNGTQSLLGSASQMLSAMSHFVGVVSAPRREQFAFRHIDFVPLDARRVLAILVFADNEVQNRVIEPRRAYEPAELERVANYLNAQFAGRALSDIRASLLRELRLAKNEMEQLLAHSVDLASEALVPADDDGMVMAGQTRLMGVQDLSDLDRLRELFEAFASKREILQLLERTIQAPGVRIFIGEETGMVSLDDVSLVTAPYTAGGQVLGVLGVIGPKRMAYDRVIPLVQTAAQMLGAAMEPPGTR |
| 3557 | sp|P25499|HRCA\_BACSU | MLTNRQLLILQVIINDFIKSAQPVGSRTLSKKDEITFSSATIRNEMADLEELGFIEKTHSSSGRVPSEKGYRYYVDHLLSPVKLTKSDLDQIHSIFKEKIFELEKTVQKSAQILSDLTNYTSIVLGPKLSENYLKQIQIIPIQPDMAVAILVTNTGHVENKTINFPTKMDLSDIEKLVNILNDRLSGVPMDELNERIFKEVVMYLRQHIKNYDNILDALRSTFHSTNHVEKLFFGGKINMLNQPEFHDITRVRSLLSLIEKEQDVLKLVQSPHTGISIKIGKENDYEEMENCSLITASYSVDQKQIGSIAIIGPTRMNYSRVVSLLQHVTSDLSKALTSLYDE |
| 3558 | sp|A3MNA5|HRCA\_BURM7 | MLDPRARTLLKTLIERYIADGQPVGSRTLSRYSGLELSPATIRNVMSDLEELGLVSSPHTSAGRVPTPRGYRLFVDTMLTVESPIDSDAVTRLVQTTLQAGEPQQRVVAAAASVLSNLSQFAGVVLTPRRSHVFKQIEFLRLSDKRILLIIVTPEGDVQNRMIATQRDYAPAQLTEASNYINAHFAGLSFDEVRRRLREEIDQLRGDMTALMHAAVTASTEEPDDEETVLISGERNLLEVADLSSDMARLRKLFDVFDQKTSLLQLLDVSSHAQGVQIFIGGESTLVPIDEMSVVTAPYEVNGKIVGTLGVIGPTRMAYNRVIPIVDITARLLSLTLSQQ |
| 3559 | sp|A9M7B7|HRCA\_BRUC2 | MMRPPEHQLLSSLDQRSRDIFRLIVETYLNDGDPVGSRNLSRLLPHTLSPATIRNVMSDLEHLGLIYAPHISAGRLPTQIGLRFFVDAFLEVGDLPPEERSSIEAQVRAAGTSNSVESVLTEASQVLSGLSRGAGLVLTNKTDVALKHIEFVRLEPMRALAVLVMQNGDVENRVIDLPAGISTSQLIEASNFLNAHIHGHTLSEAKSELRKLSEETRRELDQLSQELVAKGLAVWSGAGADQPARLIVRGRANLLENVHAQEDIERLRHLFDDLETKDGMVQLLDLAEAGSGVRIFIGSENKLFSLSGSSLVVAPYRDSEQRVIGALGVIGPTRLNYARIVPMVDYTAQIVSRLLR |
| 3560 | sp|P0DB67|HRCA\_STRPQ | MITQRQNDILNLIVELFTQTHEPVGSKALQRTIDSSSATIRNDMAKLEKLGLLEKAHTSSGRMPSPAGFKYFVEHSLRLDSIDEQDIYHVIKAFDFEAFKLEDMLQKASHILSEMTGYTSVILDVEPARQRLTGFDVVQLSNHDALAVMTLDESKPVTVQFAIPRNFLTRDLIAFKAIVEERLLDSSVIDIHYKLRTEIPQIVQKYFVTTDNVLQLFDYVFSELFLETVFVAGKVNSLTYSDLSTYQFLDNEQQVAISLRQSLKEGEMASVQVADSQEAALADVSVLTHKFLIPYRGFGLLSLIGPIDMDYRRSVSLVNIIGKVLAAKLGDYYRYLNSNHYEVH |
| 3561 | sp|Q551G1|HSPG4\_DICDI | MTTLFDILNTLNNNNNNNNYTGCKRQYSINKRVDIIPSMDVTLTNDKLIIETELTGVSKNDIDINIKDSILIIQGEKKKSIIKNQQQQQQQQQLENSNNKENDEPSIEEFEEDVKSKSELNKTTLNTTENKDEDKTTQNINKEFISERSFGNFKRYLNLSEILYQLDLNSIDTQFENGLLTITIKKKFDSSNTIKININ |
| 3562 | sp|C3L5R9|HRCA\_BACAC | MLTERQLLILQTIIDDFIGSAQPVGSRTLAKKDEITYSSATIRNEMADLEELGFIEKTHSSSGRVPSEKGYRFYVDHLLAPQNLPNDEIVQIKDLFVERIFEAEKIAQQSAQILSELTNYTAIVLGPKLSTNKLKNVQIVPLDRQTAVAIIVTDTGHVQSKTITVPESVDLSDLEKMVNILNEKLSGVPMSELHNKIFKEIVTVLRGYVHNYDSAIKMLDGTFQVPLSEKIYFGGKANMLSQPEFHDIHKVRSLLTMIDNEAEFYDILRHKQVGIQVKIGRENSATAMEDCSLISATYSIGEEQLGTIAILGPTRMQYSRVISLLQLFTRQFTDGLKK |
| 3563 | sp|Q31UU6|IBPA\_SHIBS | MRNFDLSPLYRSAIGFDRLFNHLENNQSQSNGGYPPYNVELVDENHYRIAIAVAGFAESELEITAQDNLLVVKGAHADEQKERTYLYQGIAERNFERKFQLAENIHVRGANLVNGLLYIDLERVIPEAKKPRRIEIN |
| 3564 | sp|B7MGA7|IBPB\_ECO45 | MRNFDLSPLMRQWIGFDKLANALQNAGESQSFPPYNIEKSDDNHYRITLALAGFRQEDLEIQLEGTRLSVKGTPEQPKEEKKWLHQGLMNQPFSLSFTLAENMEVSGATFVNGLLHIDLIRNEPEPIAAQRIAISERPALNS |
| 3565 | sp|B4TMX7|IBPA\_SALSV | MRNFDLSPLYRSAIGFDRLFNLLENNQSQSNGGYPPYNVELVDENHYRIAIAVAGFAESELEITAQDNLLVVKGAHADEQKERTYLYQGIAERNFERKFQLAENIHVRGANLVNGLLYIELERVIPEANKPRRIEIN |
| 3566 | sp|Q663W9|IBPB\_YERPS | MRNYDLSPLLRQWIGFDKLASTMQGGQEPQGFPPYNIEKTDDNHYRISLALAGFKQSELDIEVEGPRLTVRGKPTPVEKQVEYLHQGLVRKEFSLTFTLAEHLNVDNAQFENGLLHIDLLRQVPEALQPQRIAIGSATPQERQVLESPEAPDQQ |
| 3567 | sp|O82170|IKU1\_ARATH | MDRPRQNDHLGVNRIGKNIRKSPLHQSTFAASTSNGAAPRLQTQPQVYNISKNDFRSIVQQLTGSPSRESLPRPPQNNSLRPQNTRLQRIRPSPLTQLNRPAVPLPSMAPPQSHPQFARQPPHQPPFPQTTQQPMMGHRDQFWSNTAESPVSEYMRYLQSSLGDSGPNANQMQPGHEQRPYIPGHEQRPYVPGNEQQPYMPGNEQRPYIPGHEQRSYMPAQSQSQSQPQPQPQPQQHMMPGPQPRMNMQGPLQPNQYLPPPGLVPSPVPHNLPSPRFNAPVPVTPTQPSPMFSQMYGGFPSPRYNGFGPLQSPTSQFLQPSPTGYPNMFSPRSPYPLLSPGVQYPQPLTPNFSFSQIAQQGSLGPGAGPSQGPPQPPPSPGLMFPLSPSGFFPMPSPRWNDY |
| 3568 | sp|B5Z2T4|IRAP\_ECO5E | MKNLIAELLFKLAQKEEESKELCAQVEALEIIVTAMLRNMAQNDQQRLIDQVEGALYEVKPDASIPDDDTELLRDYVKKLLKHPRQ |
| 3569 | sp|Q9F488|ISIA\_FISMU | MQTYDNPKVKYDWWAGNARFANLSGLFIGAHVAQAALTTLWAGAFTWFELSRYQSGVPMGEQGLILLPHLATLGFGVGAGGQIVDTYPYFVIGALHIISSAVLGAGALLHTFKGPENLKDATGPAREFHFEWDDANKLGLILGHHLLFLGAGALLLVAKAMFWGGLYDTTIHDVRVVTEPTLNPFIIFGYQTHFASVDNLEDVVGGHIYVGLLLIFGGVWHILVKPLAWAKKLLIFSGEAILSYSLGGIALAGFVAAYFCAVNTLAYPVEFYGPPLEVKFWYLRPYFADTIQLPYGNYTSRAWLANTHFFLAFFFLQGHLWHALRAIGFDFKRVEKALSAVETSS |
| 3570 | sp|P0AAP5|IPRA\_ECOLI | MLSVVKPLQEFGKLDKCLSRYGTRFEFNNEKQVIFSSDVNNEDTFVILEGVISLRREENVLIGITQAPYIMGLADGLMKNDIPYKLISEGNCTGYHLPAKQTITLIEQNQLWRDAFYWLAWQNRILELRDVQLIGHNSYEQIRATLLSMIDWNEELRSRIGVMNYIHQRTRISRSVVAEVLAALRKGGYIEMNKGKLVAINRLPSEY |
| 3571 | sp|A7X6Y1|LDH2\_STAA1 | MKTFGKKVVLIGDGSVGSSYAFAMVTQGVADEFVIIDIAKDKVKADVQDLNHGTVHSPSPVDVKAGEYEDCKDADLVVITAGAPQKPGETRLQLVEKNTKIMKSIVKSVMDSGFDGYFLIAANPVDILTRFVKEYTGLPAERVIGSGTVLDSARLQYLISQELGVAPSSVDASIIGEHGDTELAVWSQANVAGISVYDTLKEQTGSEAKAEEIYVNTRDAAYEIIQAKGSTYYGIALALMRISKAILNNENNVLNVSIQLDGQYGGHKGVYLGVPTLVNQHGAVKIYEMPLSAEEQALFDKSVKILEDTFDSIKYLLED |
| 3572 | sp|P0CY17|MATMC\_SCHPO | MDSHQELSAGSPISYDFLDPDWCFKRYLTKDALHSIETGKGAAYFVPDGFTPILIPNSQSYLLDGNSAQLPRPQPISFTLDQCKVPGYILKSLRKDTTSTERTPRPPNAFILYRKEKHATLLKSNPSINNSQVSKLVGEMWRNESKEVRMRYFKMSEFYKAQHQKMYPGYKYQPRKNKVKR |
| 3573 | sp|Q16539|MK14\_HUMAN | MSQERPTFYRQELNKTIWEVPERYQNLSPVGSGAYGSVCAAFDTKTGLRVAVKKLSRPFQSIIHAKRTYRELRLLKHMKHENVIGLLDVFTPARSLEEFNDVYLVTHLMGADLNNIVKCQKLTDDHVQFLIYQILRGLKYIHSADIIHRDLKPSNLAVNEDCELKILDFGLARHTDDEMTGYVATRWYRAPEIMLNWMHYNQTVDIWSVGCIMAELLTGRTLFPGTDHIDQLKLILRLVGTPGAELLKKISSESARNYIQSLTQMPKMNFANVFIGANPLAVDLLEKMLVLDSDKRITAAQALAHAYFAQYHDPDDEPVADPYDQSFESRDLLIDEWKSLTYDEVISFVPPPLDQEEMES |
| 3574 | sp|Q39026|MPK6\_ARATH | MDGGSGQPAADTEMTEAPGGFPAAAPSPQMPGIENIPATLSHGGRFIQYNIFGNIFEVTAKYKPPIMPIGKGAYGIVCSAMNSETNESVAIKKIANAFDNKIDAKRTLREIKLLRHMDHENIVAIRDIIPPPLRNAFNDVYIAYELMDTDLHQIIRSNQALSEEHCQYFLYQILRGLKYIHSANVLHRDLKPSNLLLNANCDLKICDFGLARVTSESDFMTEYVVTRWYRAPELLLNSSDYTAAIDVWSVGCIFMELMDRKPLFPGRDHVHQLRLLMELIGTPSEEELEFLNENAKRYIRQLPPYPRQSITDKFPTVHPLAIDLIEKMLTFDPRRRITVLDALAHPYLNSLHDISDEPECTIPFNFDFENHALSEEQMKELIYREALAFNPEYQQ |
| 3575 | sp|O02766|CP8B1\_RABIT | MVLWGLLGALLMVMVGWLCLPGLLRQRRPQEPPLDKGSIPWLGHAMTFRKNMLEFLKHMRSKHGDVFTVQLGGQYFTFVMDPVSFGPILKDGQRKLDFVEYAKGLVLKVFGYQSIEGDHRMIHLASTKHLMGHGLEELNKAMLDSLSLVMLGPEGRSPDASRWHEDGLFHFCYGVMFKAGYLSLFGHTSDKRQDLLQAEEIFIKFRRFDLLFPRFVYSLLGPREWREVGRLQQLFHELLSVKHNPEKDGMSNWIGHMLQYLSEQGVAPAMQDKFNFMMLWASQGNTGPASFWALIYLLKHPEAMRAVKEEATRVLGEPRLEAKQSFTVQLSALQHIPVLDSVMEETLRLGAAPTLYRVVQKDILLKMASGQECLLRQGDIVTLFPYLSVHMDPDIHPEPTTFKYDRFLNPNGSRKVDFYKAGQKIHHYTMPWGSGVSICPGRFFALSEMKLFVLLMVQYFDLELVDPNTPVPPIDPRRWGFGTMQPTHDVRIRYRLKPLE |
| 3576 | sp|Q1J1N6|DDRB\_DEIGD | MLHIEFITDLGAKVTVDVESADKLLDVQRQYGRLGWTSGEVPVGGYQFPLENEPDFDWSLIGARKWTNPEGEEMILHRGHAYRRRELEAVDSRKMKLPAAVKYSRGAKNTDPEHVREKADGEFEYVTLAIFRGGKRQERYAVPGSNRPQAGAPARSAATRAQGARPGAVAVQDEETPF |
| 3577 | sp|C1D1R8|DDRA\_DEIDV | MKLSDVQKRLQAPFPAHAVAWKPGVITKDRSRALMLAHIDARNVQDRLDAVCPDAWSFEVEVVPGTRLPTVKGRLTVLGVSREDIGEAPEGDLGTLKAAASDALKRCAVQFGIGRYLYDLPKQWVAWNDAKREPVSPPELPEWARPDHERSPGGAHLVQAMDQLRYEMPEDLELQREVYKHLKAALGSLHPISGGNQGRAA |
| 3578 | sp|Q326K7|DNAK\_SHIBS | MGKIIGIDLGTTNSCVAIMDGTTPRVLENAEGDRTTPSIIAYTQDGETLVGQPAKRQAVTNPQNTLFAIKRLIGRRFQDEEVQRDVSIMPFKIIAADNGDAWVEVKGQKMAPPQISAEVLKKMKKTAEDYLGEPVTEAVITVPAYFNDAQRQATKDAGRIAGLEVKRIINEPTAAALAYGLDKGTGNRTIAVYDLGGGTFDISIIEIDEVDGEKTFEVLATNGDTHLGGEDFDSRLINYLVEEFKKDQGIDLRNDPLAMQRLKEAAEKAKIELSSAQQTDVNLPYITADATGPKHMNIKVTRAKLESLVEDLVNRSIEPLKVALQDAGLSVSDIDDVILVGGQTRMPMVQKKVAEFFGKEPRKDVNPDEAVAIGAAVQGGVLTGDVKDVLLLDVTPLSLGIETMGGVMTTLIAKNTTIPTKHSQVFSTAEDNQSAVTIHVLQGERKRAADNKSLGQFNLDGINPAPRGMPQIEVTFDIDADGILHVSAKDKNSGKEQKITIKASSGLNEDEIQKMVRDAEANAEADRKFEELVQTRNQGDHLLHSTRKQVEEAGDKLPADDKTAIESALTALETALKGEDKAAIEAKMQELAQVSQKLMEIAQQQHAQQQTAGADASANNAKDDDVVDAEFEEVKDKK |
| 3579 | sp|Q64X01|DNAK\_BACFR | MGKIIGIDLGTTNSCVSVFEGNEPVVIANSEGKRTTPSIVAFVDGGERKVGDPAKRQAITNPTRTIFSIKRFMGENWDQVQKEIARVPYKVVKGDNNTPRVDIDGRLYTPQEISAMILQKMKKTAEDYLGQEVTEAVITVPAYFSDSQRQATKEAGQIAGLEVKRIVNEPTAAALAYGLDKAHKDMKIAVFDLGGGTFDISILEFGGGVFEVLSTNGDTHLGGDDFDQVIIDWLVQEFKNDEGADLTQDPMAMQRLKEAAEKAKIELSSSTSTEINLPYIMPVGGVPKHLVKTLTRAKFESLAHNLIQACLEPCKKAMQDAGLSNSDIDEVILVGGSSRIPAVQKLVEDFFGKTPSKGVNPDEVVAVGAAVQGAVLTDEIKGVVLLDVTPLSMGIETLGGVMTKLIDANTTIPARKSETFSTAADNQTEVTIHVLQGERPMAAQNKSIGQFNLTGIAPARRGVPQIEVTFDIDANGILKVSAKDKATGKEQAIRIEASSGLSKEEIEKMKAEAEANAEADKKEREKIDKLNQADSLIFQTETQLKELGDKLPADKKAPIEAALQKLKDAHKAQDMTTIDSAMAELNTAFQAASAEMYAQSGAQGGAQAGPDMNAGQSNAGQNNGKQDDNVQDADFEEVK |
| 3580 | sp|A1BET8|DNAK\_CHLPD | MGKIIGIDLGTTNSCVAVMQGTQPTVIENSEGNRTTPSMVAFTKSGDRLVGQAAKRQAITNPKNTIYSIKRFVGRKFDEVPNEKKLAPYDIVNEGGEARVKINDKAYSPQEISAMILQKMKQTAEDFLGEKVSEAVITVPAYFNDAQRQATKDAGRIAGLDVKRIINEPTAAALAYGLDKKQSSEKVAVFDLGGGTFDISILELGDGVFEVKSTDGDTHLGGDDFDQKIINFLADEFKKQEGIDLRNDAIALQRLKEAAEKAKVELSSRTDTEINLPFITATQEGPKHLVINLTRAKFEAMCSDLFDKILEPCHRAVKNSSVEIKDIDEVVLVGGSTRIPKVQALVKEFFGREPNKSVNPDEVVAVGAAIQGGVLKGDVTDVLLLDVSPLSLGIETLGGVMTRLIEANTTIPTRKQEVFSTAGDNQTSVEVHVLQGERPMASDNKTLGRFHLGDIPPAPRGLPQIEVTFDIDSNGILSVSAKDKATGKEQSIKIEASGKLSDAEIEKMKRDAKEHAAEDMKKKEEIDSKNAADGLIFSTEKQLAELGDKIPSDKRPALEGALEKLKDATKNGTTESIKNAMDELSKVWNDVSSNLYQAPGAETNASEPTQNTDGSGHTKKSGNDGEVENAEFEVIDGNGK |
| 3581 | sp|Q6NEY9|DNAK\_CORDI | MGRAVGIDLGTTNSVVSVLEGGEPQVIANSEGSRTTPSVVAFAKNGEVLVGQSAKNQAVTNVDRTIRSVKRHVGTDWTIAIDDKKYTSQEISARTLMKLKRDAEAYLGEDVTDAVITVPAYFSDAQRQATKEAGQIAGLNVLRIVNEPTAAALAYGLEKGEKEQTILVFDLGGGTFDVSLLEIGDGVVEVRATAGDNELGGDDWDQRIVDWLVEKFKTAQGVDLSKDKMAMQRLREAAEKAKIELSSSQSANVNLPYITVDADKNPLFLDETLSRTEFQRITQDLLDRTKTPFNQVIKDAGVTVSEIDHVVLVGGSTRMPAVSELVKELTGGREPNKGVNPDEVVAVGAALQAGVLRGEVKDVLLLDVTPLSLGIETKGGVMTKLIERNTTIPTKRSETFTTADDNQPSVQIQVFQGEREIAAHNKLLGSFELGGIAPAPRGVPQIEVTFDIDANGIVHVTAKDKGTGKENTIKIQDGSGLSQEEIDRMVKDAEAHAEEDKKRREEQETRNSAESMAYQTRKFLDENGEKVSEEIKTKVTEAADAVDEALKGEDIEAIKTAVEKLSTESQEMGKAIYEAEAANAGAADATNVDPNVVDAEVVEDDDKDGNK |
| 3582 | sp|Q7UZG3|DNAK2\_PROMP | MGKVVGIDLGTTNSCVAVMEGGKPTVIANAEGFRTTPSVVAYTKNQDQLVGQIAKRQAVMNPENTFYSAKRFVGRRVDEVNEESKEVSYGIEKAGSNVKLKCPVLDKQFSPEEVSAQVLRKLSEDAGKYLGENITQAVITVPAYFNDSQRQATKDAGKIAGLEVLRIINEPTAAALAYGLDKKSNERILVFDLGGGTFDVSVLEVGDGVFEVLSTSGDTHLGGDDFDRCIVDHLASIFKSNEGIDLRQDKQALQRLTEAAEKAKIELSNATQSEINLPFITATPEGPKHLDLNLTRANFEELASKLIDRCRVPVEQALKDAKLSTGEIDEIVMVGGSTRMPAVQELVKRVTGKDPNQTVNPDEVVAVGAAIQGGVLAGEVKDILLLDVTPLSLGVETLGGVMTKMITRNTTVPTKKSETYSTAVDGQTNVEIHVLQGEREMASDNKSLGTFRLDGIPSAPRGVPQIEVTFDIDANGILSVTAKDKGSGKEQSISITGASTLSDNEVDKMVKDAESNASVDKEKREKIDLKNQAETLVYQTEKQLGELGDKVDASAKAKVEEKSKALKEATSKEDYEAMKKLLEELQQELYAIGSSVYQQPGNQPPAPGTPDSNESNDKGGDDDVIDADFTETKD |
| 3583 | sp|Q7M9T3|DNAJ\_WOLSU | MEEFDYYEILEIERSASGEEIKKAYRKMAMKYHPDRNEGSSEAEEMFKRVNEAYQVLSDEGKRQLYDRYGKQGLESQGYSGFSGRGFEDVFDDLGSIFDSVFGGGFSSSSRKRSGPKYNLDLAMELDLSFKEAIFGCKKEIKIRYKDACPDCKGTGAKEGKIETCPDCGGRGQVFIRQGFMTFAQTCPKCGGSGERIKEKCPKCNGKGHENKEENLEVSIPEGVDTDNRIRVSRKGHVGKNGERGDLYLVVRVEEDEHFMRHGNDIYLHVPLFFSTVPLGTTLKIPSLRGELELKIPPNTKDKEQFVFKNEGVKDVHSAKKGNLIAQVKIVYPAKINDEQRELLEKLSRSFGVEGTPHEKGFEGVFEKIKGWFS |
| 3584 | sp|B2UBP3|DNAK\_RALPJ | MGKIIGIDLGTTNSCVAIMEGNTPKVIENAEGARTTPSIIAYMEDGEILVGAPAKRQAVTNPKNTLYAVKRLIGRKFEEKEVQKDIGLMPYSIVKADNGDAWVEVRGQKLAPPQISAETLRKMKKTAEDYLGEEVTEAVITVPAYFNDSQRQATKDAGRIAGLDVKRIINEPTAAALAFGLDKNEKGDRKIAVYDLGGGTFDISIIEIADVDGEKQFEVLSTNGDTFLGGEDFDQRIIDYIIGEFKKEQGVDLSKDVLALQRLKEAAEKAKIELSSTQQTEINLPYITADASGPKHLNLKITRAKLEALVEDLIARTIDPCRTAIKDAGVKVSDIHDVILVGGMTRMPKVQEKVKEFFGKEARKDVNPDEAVAVGAAIQGQVLGGDRTDVLLLDVTPLSLGIETLGGVMTKMIGKNTTIPTKFSQTFSTADDNQPAVTIKVYQGEREMASGNKMLGEFNLEGIPPAPRGTPQIEVSFDIDANGILHVGAKDKATGKENKITIKASSGLSEAEIERMVKDAEANAEEDKKLRELVDSRNQGEALVHSTKKALGEYGDKLEAGEKDKIEAAIKELEETLKGTDKAAIDAKTEALATASQKLGEKVYADMQAKGEAGGAEQAAGAQAGAQAGQGAPHDDNVVDAEFKEVNDKK |
| 3585 | sp|A8GR22|DNAK\_RICRS | MGKVIGIDLGTTNSCVAVMEGKEPKVIENAEGERTTPSIIAFANGEKLVGQSAKRQAVTNPRNTIYAVKRLIGRNFIDPMVRKDQGIVPYNIVKADNGDAWVEADNNKYSPSQISAFILQKMKETAENYLGDKVTQAVITVPAYFNDAQRQATKDAGKIAGLEVLRIINEPTAAALAYGFEKSASKTIAVYDLGGGTFDVSILEISDGVFEVKSTNGDTFLGGEDFDTRILNHLIDVFKKENGIDLSKDPLALQRLKEAAEKAKKELSSAVTTDINLPYITADSSGPKHLNIKFTRAELEKLVDDLIEKTIEPCRKALQDAGFKASDIQEVVLVGGMTRMPKVQEAVKKFFGREPHKGVNPDEVVALGAAIQGGVLNKEVTDILLLDVTPLSLGIETLGGVFTRLIDRNTTIPTKKSQVFSTADDNQHAVTIRVFQGEREMAKDNKLLGQFNLEGIPPAPRGLPQIEVTFDIDANGIVHVSAKDKASGKEQKVTIQASGGLSDAEIEQMVKDAEQNADEDKKRKELIEAKNAADSLVYSTEKTLTEYGDKLSSDDKGAVEEALAALKAVLESEDTALIKEKTASLTAASMKIGEAMYKAQSESQPAAENATNDEKIVDADFQDVEKK |
| 3586 | sp|P22241|DRPD\_CRAPL | MAQLMNKAKNFVAEKVANVEKPKASVEDVDLKDVGRHGITYLTRICVENPYSASIPVGEIKYTLKSAGRVIVSGNIPDPGSLKGNDKTMLEPAIKVPHSALVSLIKDIGADMDIDYVLELGLVVDLPVIGNFTIPLSHKGEMKLPGLSDIF |
| 3587 | sp|P85955|DRE1\_PSEMZ | KPAGRKKFQETRHPIYRGVRLRKSGKWVCEVREPNKKSRIWLGTFK |
| 3588 | sp|A0A4P7TSF2|ENVZ\_SHIFM | MRRLRFSPRSSFARTLLLIVTLLFASLVTTYLVVLNFAILPSLQQFNKVLAYEVRMLMTDKLQLEDGTQLVVPPAFRREIYRELGISLYSNEAAEEAGLRWAQHYEFLSHQMAQQLGGPTEVRVEVNKSSPVVWLKTWLSPNIWVRVPLTEIHQGDFSPLFRYTLAIMLLAIGGAWLFIRIQNRPLVDLEHAALQVGKGIIPPPLREYGASEVRSVTRAFNHMAAGVKQLADDRTLLMAGVSHDLRTPLTRIRLATEMMSEQDGYLAESINKDIEECNAIIEQFIDYLRTGQEMPMEMADLNAVLGEVIAAESGYEREIETALYPGSIEVKMHPLSIKRAVANMVVNAARYGNGWIKVSSGTEPNRAWFQVEDDGPGIAPEQRKHLFQPFVRGDSARTISGTGLGLAIVQRIVDNHNGMLELGTSERGGLSIRAWLPVPVTRAQGTTKEG |
| 3589 | sp|P08982|ENVZ\_SALTY | MRRMRFSPRSSFARTLLLIVTLLFVSLVTTYLVVLNFAILPSLQQFNKVLAYEVRMLMTDKLQLEDGTQLVVPPAFRREIYRELGISLYTNEAAEEAGLRWAQHYEFLSHQMAQQLGGPTEVRVEVNKSSPVVWLKTWLSPNIWVRVPLTEIHQGDFSPLFRYTLAIMLLAIGGAWLFIRIQNRPLVDLEHAALQVGKGIIPPPLREYGASEVRSVTRAFNHMAAGVKQLADDRTLLMAGVSHDLRTPLTRIRLATEMMGEEDGYLAESINKDIEECNAIIEQFIDYLRTGQEMPMEMADLNSVLGEVIAAESGYEREINTALQAGSIQVKMHPLSIKRAVANMVVNAARYGNGWIKVSSGTESHRAWFQVEDDGPGIKPEQRKHLFQPFVRGDSARSTSGTGLGLAIVQRIIDNHNGMLEIGTSERGGLSIRAWLPVPVARVQGTTKEA |
| 3590 | sp|Q9SYY4|ELO3L\_ARATH | MSTALINSITYFLSEHPYIVGFRWSNSQSWGSTWSFLFTSISLYIAVSSSLHILLSAVRRSNRSVPLGHIPEIHSLLMSILSATIFAGILLSAAAEIRDTRWLWRRSKTATPLQWLLCFPLGTRPSGRVFFWSYVFYLTRFLHMFRTIFAVLRSRRLAVSQLFCNSVMAFTSFLWLEFSQSYQILAILSTTLVYSVVYGYRFWTGFGLPGSAFPSFVVNCQLVLVGCNLVSHAGVLTMHLFKGGCNGIGAWGLNSVLNGAILLLFLNFYVRMHSPMRRHINKMNSQRNA |
| 3591 | sp|P20445|G3P\_EMENI | MAPKVGINGFGRIGRIVFRNAIEAGTVDVVAVNDPFIETHYAAYMLKYDSQHGQFKGTIETYDEGLIVNGKKIRFHTERDPANIPWGQDGAEYIVESTGVFTTQEKASAHLKGGAKKVVISAPSADAPMFVMGVNNETYKKDIQVLSNASCTTNCLAPLAKVINDNFGIIEGLMTTVHSYTATQKVVDGPSAKDWRGGRTAATNIIPSSTGAAKAVGKVIPSLNGKLTGMAMRVPTSNVSVVDLTVRTEKAVTYDQIKDAVKKASENELKGILGYTEDDIVSTDLNGDTRSSIFDAKAGIALNSNFIKLVSWYDNEWGYSRRVVDLITYISKVDAQ |
| 3592 | sp|O65979|GGPS\_SYNP2 | MKSSLVILYHREPYDEVRENGKTFYRDKTSPNGIMPTLKSFFANAEQSTWVAWKQISGKQQENFQAKMAFPGQENSVVHRIPLSADQVKNFYHITSKEAFWPILHSFPWQFTYDSSDWENFKQINEMFAEAACEDADDDALFWVHDYNLWLTPYFIRQKKPNAKIAFFHHTPFPSVDIFNILPWREAIVDSLLCCDLCGFHLPRYVQNFVAVARSLRKVEITRQVPVDEHAFTAVGTALAEPEITTQLKYKDHLVNLDAFPVGTNPTQIRAQVEKASTQERIRKIREELGSNKLILSAGRVDYVKGTKEMLVCYERLLERRPELQTKVNLVVAAAKAASGMRVYKNAQSEIERLVGRINGRFAKLNWTPILLFTSALSYEELLGFFGAADIAWITPLRDGLNLVAKEYVVAHGCDDGVLILSEFAGSAVELPDAILTNPYAAKRMDESIDQALAMPVEEQQRRMKSMYQAIQRYDVQQWANHMFREAKATAVLGKEPTPV |
| 3593 | sp|A6VMQ9|GRPE\_ACTSZ | MSEQEQKQEQPIENAAENSAQKPEEVTETDVQTEQNVTDPLEEAIARVQELEEQLADAAKKEQDALLRARAEVDNMRRRAEQDVEKAHKFALEKFAKDLLNTIDNLERALATPANVEDESVKGLFDGVELTLKELLATVARFGIEPVGLVGESFNPEFHQAISMQPTEGFETNQITTVLQKGYLLNSRVIRPAMVMVAA |
| 3594 | sp|B5FA13|GRPE\_ALIFM | MSNEENKVNEEAVVEEQVEAVGTEADVEWNESAEDSQEAKIAELEAALLASQAQIKEQQDTVLRAKAEEQNVRRRAEEDVDKARKYALKKFAGELLPVLDNLERALENGDKENEAAKALLEGVELTLQTFVSTVEKFGLTVINPMGEAFNPELHQAIGMQASPDHESNTVMIVMQKGYTLNDQVLRPAMVMVAQ |
| 3595 | sp|Q0A7E2|GRPE\_ALKEH | MSDKQREAERQQSEDKAHSEAESAEAGQAPEAQAAEDGAESASGDSGDELTELQQALEEARARAEENWNECLRARAEMQNIQRRAQADVEKARKYAVEKIAGDLLGVKDSLEMGVKAAKEEGADPQKLLEGSELTLKMLSQVLERFNVQEIDPQGERFNPEHHEAVAAQPSHEHEPNTVLNVMQKGYALHDRVLRPAMVVVSQKAPEPPPSGSIDEQA |
| 3596 | sp|Q6G563|GRPE\_BARHE | MSDEKNKFTDASFENCDLKNPSDRDALKQAADKFLKAHAAEADADVKGGGEALVDPLAALQDENKELKDQLLRLAADMENLRRRTARDVADAKAYSIANFARDMLSVSDNLNRALDAIPEGAKENDAGLKTLAEGVEMTERAMIAALERHGVQKIHPEGQKFDPHFHQAMFEIPNSDVPDNTVQQVVQAGYIIGERVLRPAIVGVAKGGAKDISVESDSD |
| 3597 | sp|B0TYF1|GRPE\_FRAP2 | MGKEEKNNIEDKALDNEQEMDQESTSKAVEELSIEEQLERARDTIKELEETCDSFKDEALRARAEMENVRKRAERDVSNARKFGIEKFAKELLPVIDSIEQALKHEVKLEEAIAMKEGIELTSKMLVDTLKKNGLEELDPKGEKFDPNLHEAMAMIPNSEFEDNTIFDVFQKGYMLNGRVVRAAKVVIVKN |
| 3598 | sp|Q83N75|GRPE\_TROW8 | MTKSNETERMEESEETHSSDIRSASESDHASGSDHTESADEIPTADAEQGELEQLEKLKDDLARERAAFHNFRMARAKQAEIERDRTRSEVIRVILPVLDDFARIEKHSTLDDPFKAVITKLRSAMEKIGLTAFGNPGDPFNPELHEALFQNPSPDVQTETVQDVIEAGYCLGETVIRAAKVVVQVPNG |
| 3599 | sp|B1VMF2|GRPE\_STRGG | MTEETPGFEEKPDVPSGATPDDAEPKAADSSEEETAAPAGDLDPTVGLTAQLDQARTALGERTADLQRLQAEYQNYRRRVERDRVTVKEIAVANLLSELLPVLDDVGRARDHGELVGGFKSVAESLETTVAKLGLQQFGKEGEPFDPTIHEALMHSYAPDVTETTCVAILQPGYRIGERTIRPARVAVAEPQPGATPAAAKEEKTDDEESGGTEEV |
| 3600 | sp|Q9PQ83|GRPE\_UREPA | MSKNNENIKHQNNDKVNNQVDKKETKNHNKQEFKYKELYEHELKKNKELQNINTLLKDKNQQLEEQISQLNQDFIKQLETKAKQAQQILEQKVNELEARHEAKVNDAVFKIFKFKMEPLLDAINHFTKIVNQNYDDPKIQAFIEGFKMFSQNMIDGLDNLKITKISPQVNDSLNDEIMEVFEVVENTNKPSMHVVEVISDGFKYNDKVIKFAVVKVAK |
| 3601 | sp|Q8L2F3|GRPE\_MEIRU | MENNEPVVETPEAQNDLPEVERLKGEVEFLKAELEASKNKFLRLYADFENYKKRMVQELEAAQRNGKFDAVRALLGTLDDLERALGFASVKPEDLIPGVRSVLENFTRSLKSLGVEAVPGVGAEFDPRYHEAIGAVEGEEGKVMHVYQQGFKYGDLLVRPARVVVGSGAKPEEAEA |
| 3602 | sp|B4RNG7|GRPE\_NEIG2 | MSEQTQQQNSEEAVENVEAVETVETVGNADGVQEQAAAEPAYEDLQARIAELEAQLKDEQLRALANEQNLRRRHQQEIADTHKFAGQKFAVEMLPVKDYLEMALLDQSGNFDALKMGVQMTLNELQKAFDATQIKEINPKAGDKLDPNIHQAMQAVASEQEPNTVVGVMKKGYTLSDRVLRPAMVTVAQKEA |
| 3603 | sp|Q4ZNP6|GRPE\_PSEU2 | MADEQNLDAQAQDQAAEAGAGDELTTRVQVLEEQLAAAQDQSLRVAADLQNVRRRAEQDVEKAHKFALEKFAGDLLPIIDSLERGLDLSSPDDESIRPMREGIELTLKMFQDTLKRYQLEAIDPHGQPFSADQHQAMAMQESADVEPNTVLKVFQKGYQLNGRLLRPAMVVVSKAPSPATPSINEQA |
| 3604 | sp|Q39PT6|GRPE\_GEOMG | MDKKKHGSHAGAHHTDEPAAETVAPAAEGAPAAADRVKELEEALAAKEAEAAANWDKFVRERADLENYRKRTQKEKEELLKYGNESLIVEILPVVDNMERALDHSDDDSASAVIEGVRMTLNMLLSTLKKFGVTVVEAEKGTPFDPAVHQAMCQVENTDVPANSVVEIFQKGYLLNERLIRPAMVSVSK |
| 3605 | sp|Q9FUS8|GSTUH\_ARATH | MASSDVKLIGAWASPFVMRPRIALNLKSVPYEFLQETFGSKSELLLKSNPVHKKIPVLLHADKPVSESNIIVEYIDDTWSSSGPSILPSDPYDRAMARFWAAYIDEKWFVALRGFLKAGGEEEKKAVIAQLEEGNAFLEKAFIDCSKGKPFFNGDNIGYLDIALGCFLAWLRVTELAVSYKILDEAKTPSLSKWAENFCNDPAVKPVMPETAKLAEFAKKIFPKPQA |
| 3606 | sp|Q3Z0M5|HCHA\_SHISS | MTVQTSKNPQVDIAEDNAFFPSEYSLSQYTSPVSDLDGVDYPKPYRGKHKILVIAADERYLPTDNGKLFSTGNHPIETLLPLYHLHAAGFEFEVATISGLMTKFEYWAMPHKDEKVMPFFEQHKSLFRNPKKLADVVASLNADSEYAAIFVPGGHGALIGLPESQDVAAALQWAIKNDRFVISLCHGPAAFLALRHGDNPLNGYSICAFPDAADKQTPEIGYMPGHLTWYFGEELKKMGMNIINDDITGRVHKDRKVLTGDSPFAANALGKLAAQEMLAAYAD |
| 3607 | sp|A4TRN9|HFQ\_YERPP | MAKGQSLQDPFLNALRRERVPVSIYLVNGIKLQGQVESFDQFVILLKNTVSQMVYKHAISTVVPSPPVSHHSNTPSGSTNNYHGSNPSAPQQPQQDSDDAE |
| 3608 | sp|B1JMN9|HFQ\_YERPY | MAKGQSLQDPFLNALRRERVPVSIYLVNGIKLQGQVESFDQFVILLKNTVSQMVYKHAISTVVPSRPVSHHSNTPSGSTNNYHGSNPSAPQQPQQDSDDAE |
| 3609 | sp|Q2NW63|HFQ\_SODGM | MAKGQSLQDPFLNALRRERVPVSIYLVNGIKLQGQIESFDQFVILLKNTVSQMVYKHAISTVVPSRPVSHHNNNPSGGSSNYHHGSTPASQPSQPESDDAE |
| 3610 | sp|A6LNU8|HFQ\_THEM4 | MAEKFNLQDRFLNILRTSKIPVKVYLVNGFQTKGIIRSFDNFTMLLENGNQQNLIYKHAVSTIMPESFVRLTSKQQQEGKDSDEEE |
| 3611 | sp|Q1LSQ5|HFQ\_BAUCH | MAQGQSLQDIFLNVLRRERIQVSIYLFNGIKLQGHIESFDQFVIVLKNTISQMVYKHAVSTIVPSKFVSHYANNSSNYSNHSGDRN |
| 3612 | sp|Q7MZD9|HICA2\_PHOLL | MKQSEFRRWLKAQGAEFKDGTNHLKVFLNGKQTTMPRHPSKEIPEPLRKLILKQPGIK |
| 3613 | sp|B0U3K0|HRCA\_XYLFM | MCASFSPTLDSRSRQLLRTLISCYIQNGEPVGSKTLAQQAGLDISPATIRNILADLEELGLLNSPHTSAGRVPTAHGYRMFVDSLVQMQPPSEDDIRRLRVEMAGGGTQALLGNASEILSAMTHFVGVVSAPRREQFVFRHIDFVPLDARQIMAILIFADNEVQNRVIEPRRVYEPGELERVSNYLNAHFIGRTLADIRTTVLCELRKAKDEMEQLLAHSLDLASQMLVPNDSEDIVVTGQTRLMALQDLSDMDRLRELFEIFASKREILQLLERTINAPGVRIFIGEETGMVSMEDISLVTAPYAAHGQVLGVLGVIGPKRMAYDRVIPLVQVVAQVLGTALEPPTMP |
| 3614 | sp|Q6Z9C8|HFB2B\_ORYSJ | MADQTAAAVVVGGGAAATMGEPSPPPPAPAAEAAGVGVGQQQRTVPTPFLTKTYQLVDDPAVDDVISWNDDGSTFVVWRPAEFARDLLPKYFKHNNFSSFVRQLNTYGFRKIVPDRWEFANDCFRRGERRLLCEIHRRKVTPPAPAATTAAVAAAIPMALPVTTTRDGSPVLSGEEQVISSSSSPEPPLVLPQAPSGSGSGGVASGDVGDENERLRRENAQLARELSQMRKLCNNILLLMSKYASTQQLDAANASSAAGNNNNNNCSGESAEAATPLPLPAVLDLMPSCPGAASAAAPVSDNEEGMMSAKLFGVSIGRKRMRHDGGGDDDHAATVKAEPMDGRPHGKDEQSAETQAWPIYRPRPVYQPIRACNGYEYDRAGSDQDGSNST |
| 3615 | sp|Q9M1V5|HFA7B\_ARATH | MDPSSSSRARSMPPPVPMEGLQEAGPSPFLTKTFEMVGDPNTNHIVSWNRGGISFVVWDPHSFSATILPLYFKHNNFSSFVRQLNTYGFRKIEAERWEFMNEGFLMGQRDLLKSIKRRTSSSSPPSLNYSQSQPEAHDPGVELPQLREERHVLMMEISTLRQEEQRARGYVQAMEQRINGAEKKQRHMMSFLRRAVENPSLLQQIFEQKRDREEAAMIDQAGLIKMEEVEHLSELEALALEMQGYGRQRTDGVERELDDGFWEELLMNNENSDEEEANVKQD |
| 3616 | sp|A6TKN0|HTPG\_ALKMQ | MIKKEFKAESKRLLDLMINSIYTHKEIFLRELISNSSDAIDKIYYKALTDESMIFNKEDYYIKITTDKENKMLIISDMGIGMTKEELEENLGVIAQSGSFTFKKENEIKDGFDIIGQFGVGFYSAFMVADSVTVISKALGSDQGYKWESIGAEGYTIEPYEKESVGTEIILKLKENTEDEKYEDYLEAYRLKTIIKKYSDFIRYPIKMDIETSKPKEGAEGEYEEIVEEQVVNSMVPMWRRNKNELTKEDYDLFYSEKHYGFDKPLKHIHISADGAVRYNAILFIPEKIPYDFYTKEYEKGLELYSSGVLIMNKCSDLLPDYFSFVKGMVDSEDLSLNISREMLQHDRQLKIIAKKIKEKIKSELELLLKNERERYEEFYDSFGRQIKYGVYSDFGQNKETLKDLLLFYSSKEKKMVTLDEYVGRMKEDQKYIYYASGDSIEKIDKMPQTELLAEQGYEILYFADDVDEFAIRVLVDYKEKEFKSVSSGDLGIEEKDEKEEQEEQTQGSKEVFAFMKEALSQKVKDVRPSKRLKNHPVCLATDGDVTIEMEKILSAMPNNQEIKAERVLEININHDVFKTLKEAFDNDQEKLKIYTNVLYNQALLIEGLTINDPVEFTNDICKLMS |
| 3617 | sp|Q6D4G3|HTPX\_PECAS | MMRIALFLITNLAVMLVFGLVLSLTGIQSSSVQGLMIMAGLFGFGGAFVSLLMSKWMALRSVGGEVIEQPRNETERWLVETVRSQSQQAGIAMPQVAIYHAPDINAFATGARRDASLVAVSTGLLQNMSRDEAEAVIAHEISHIANGDMVTMTLVQGIVNTFVIFISRLIAQVVSGFLSGNRDEGESSNGNPMVYFAVATVLELVFGILASIITMWFSRYREFHADAGSAKLVGREKMIAALQRLKTSYEPQEEGSMMAFCINGKSKSFSELFMSHPPLDKRIEALRSGEYLK |
| 3618 | sp|B4ETJ0|HTPX\_PROMH | MMRIALFLLTNLAVMFVFGIILSLTGIQGRSVQGLMIMAGLFGFGGAFVSLLMSKWMALRSVGGQVIENPTSEVERWLLDTVRRQSEQVGIKMPQVAIYDAPDINAFATGARRDASLVAVSTGLLASMSRDEAEAVIAHEISHVANGDMVTMTLLQGVVNTFVIFISRIIAQFVANFISSDEESENSNGNPWVYMGVSMVLEIVFGILASIITMWFSRYREFHADAGSAKLVGREKMIAALQRLKTSYEPQEESSMMAFCINGRNKSFSELFLSHPPLDKRIEALRSGEYLK |
| 3619 | sp|B1IN79|HTPG\_CLOBK | METKQFKAESKRLLDLMINSIYTHKEIFLRELISNSSDAIDKIYYKTLTDDSLKFERDDYYIKVVSDKENRVLKIADTGIGMTKEELENNLGVIAKSGSLQFKKENEVKEGYDIIGQFGVGFYSAFLVSDDVTVISKAFGSNEAYKWNSKGAEGYTIEPCEKEAYGTEIILKIKDNTEEENYDEFLEEYTLKSIIKKYSDFIRYPIKMDLTKTKPKEDNKEEFEEYKEEETINSMVPIWRKNKNELKAEDYENFYAEKHYGFDKPIKYIHTSVDGVVSYNAILFIPETTPYDFYTKEYEKGLELYSSGVLIMNKCGDLLPDYFGFVKGIVDSEDLSLNISREILQHDRQLKLIAKNIKTKIKNELESLLKKERDKYEKFYESFGRQLKYGVYSDFGSNKDILQDLLMFYSSKEKKMVTLAEYVSRMPEDQKYIYYAVGESNERIEKLPQIEGVLDKGYEVLYFTDDIDEFAIKMLMNYKEKEFKSVSSGDLGIEGEEKENTSSSDDKENKELFESMKDILSGKVKDVRASKRLKNHPVCLANEGELSIEMEKVLNAMPNNQNIKADKVLEININHDVFKSLKEAYEGDKEKLKLYTDLLYNQALLIEGLAINDPVEFTNNICKIMK |
| 3620 | sp|A7IHP6|HSLU\_XANP2 | MSDFSPREIVSELDRHIVGQANAKRAVAIALRNRWRRQQLDDKLREEVLPKNILMIGPTGVGKTEISRRLARLAGAPFLKVEATKFTEVGYVGRDVEQIVRDLVEVGIGLVREARRKDVQAKAHLAAENRVLDALVGATASPATRDAFRKRLRAGELDDKEVEIEVQAGGQGMPMFEIPGMPGTQMGAVNLGDMLGKAFGGRSKPRRVNVKEAHPLLLAEEADKLIDQDAIVQDAIHQVENNGIVFLDEIDKIAGREGRSGADVSREGVQRDLLPLIEGTTVSTKHGPVKTDHILFIASGAFHVSKPSDLLPELQGRLPIRVELEALTRADFVRILTETEASLVKQSVALMGTEGVTLTITTDAVEAIADAAVEVNSNVENIGARRLQTVIERVLDDLSFSAPDRSGETVVVDAEYVRSRVADLARNADLSRFIL |
| 3621 | sp|Q04619|HS90B\_CHICK | MPEQVQHGEDEVETFAFQAEIAQLMSLIINTFYSNKEIFLRELISNASDALDKIRYESLTDPSKLDTGKDLKIDIVPNPRDPTLTLLDTGIGMTKADLVNNLGTIAKSGTKAFMEALQAGADISMIGQFGVGFYSAYLVAEKVVVITKHNDDEQYAWESSAGGSFTVRTDHGEPIGRGTKVILYLKEDQTEYLEERRVKEVVKKHSQFIGYPITLYVEKEREKEVSDDEAEEEKVEKEEEESKDEEKPKIEDVGSDEEEEEGEKSKKKKTKKIKEKYIDQEELNKTKPIWTRNPDDITQEEYGEFYKSLTNDWEDHLAVKHFSVEGQLEFRALLFIPRRAPFDLFENKKKKNNIKLYVRRVFIMDSCDELIPEYLNFIRGVVDSEDLPLNISREMLQQSKILKVIRKNIVKKCLELFTELAEDKENYKKFYEAFSKNLKLGIHEDSTNRKRLSELLRYHTSQSGDEMTSLSEYVSRMKESQKSIYYITGESKEQVANSAFVERVRKRGFEVVYMTEPIDEYCVQQLKEFDGKTLVSVTKEGLELPEDEEEKKNMEESKAKFETLCKLMKEILDKKVEKVTISNRLVSSPCCIVTSTYGWTANMERIMKAQALRDNSTMGYMMAKKHLEINPDHPIVETLRQKADANKNDKAVKDLVVLLFETALLSSGFSLEDPQTHSNRIYRMIKLGLGIDEDEVIAEESSIAPPDEIPPLEGDEDTSRMEEVD |
| 3622 | sp|Q7PT10|HSP83\_ANOGA | MPEPQEGETFAFQAEIAQLMSLIINTFYSNKEIFLRELISNSSDALDKIRYESLTDPSKLESGKELFIKIIPNKEAGTLTLIDTGIGMTKADLVNNLGTIAKSGTKAFMEALQAGADISMIGQFGVGFYSAYLVADKVVVTSKNNDDEQYVWESSAGGSFTVRPDSGEPLGRGTKIVLHIKEDQLEYLEESKIKQIVNKHSQFIGYPIKLLVEKEREKEVSDDEAEEEKKEEKEEKKDDEPKLEDAEDDEDKKDKKKKTVKVKYTEDEELNKTKPIWTRNADDISQEEYGEFYKSLTNDWEDHLAVKHFSVEGQLDFRALLFVPRRMPFDLFENKKKKNNIKLYVRRVFIMDNCEELIPDYLNFIKGVVDSEDLPLNISREMLQQNKILKVIRKNLVKKCLELFEELAEDKETYKKFYDQFSKNLKLGVHEDSQNRQKLADLLRFNTSASGDEYCSLNDYVGRMKENQTQIYFITGESIDQVKNSAFVERVKKRGFEVIYMTEPIDEYVIQQLKEYKGKQLVSVTKEGLELPEDEAEKKKREEDKAKFENLCKVMKSVLESKVEKVMVSNRLVDSPCCIVTSQYGWSANMERIMKAQALRDSSAMGYMAGKKHLEINPDHAIIETLRQRAEADKNDKAVKDLVILLFETALLSSGFSLDEPGTHASRIYRMIKLGLGIDEDEPMTTEESSSGAAAAAPASGDAPPLVDDSEDLSHMEEVD |
| 3623 | sp|P22774|HSP7M\_SCHPO | MISSRFTNVVRSGLRFQSKGASFKIGASLHGSRMTARWNSNASGNEKVKGPVIGIDLGTTTSCLAIMEGQTPKVIANAEGTRTTPSVVAFTKDGERLVGVSAKRQAVINPENTFFATKRLIGRRFKEPEVQRDIKEVPYKIVEHSNGDAWLEARGKTYSPSQIGGFILSKMRETASTYLGKDVKNAVVTVPAYFNDSQRQATKAAGAIAGLNVLRVVNEPTAAALAYGLDKKNDAIVAVFDLGGGTFDISILELNNGVFEVRSTNGDTHLGGEDFDVALVRHIVETFKKNEGLDLSKDRLAVQRIREAAEKAKCELSSLSKTDISLPFITADATGPKHINMEISRAQFEKLVDPLVRRTIDPCKRALKDANLQTSEINEVILVGGMTRMPRVVETVKSIFKREPAKSVNPDEAVAIGAAIQGGVLSGHVKDLVLLDVTPLSLGIETLGGVFTRLINRNTTIPTRKSQVFSTAADGQTAVEIRVFQGERELVRDNKLIGNFQLTGIAPAPKGQPQIEVSFDVDADGIINVSARDKATNKDSSITVAGSSGLTDSEIEAMVADAEKYRASDMARKEAIENGNRAESVCTDIESNLDIHKDKLDQQAVEDLRSKITDLRETVAKVNAGDEGITSEDMKKKIDEIQQLSLKVFESVYKNQNQGNESSGDNSAPEGDKK |
| 3624 | sp|Q0SY58|HSLU\_SHIF8 | MSEMTPREIVSELDKHIIGQDNAKRSVAIALRNRWRRMQLNEELRHEVTPKNILMIGPTGVGKTEIARRLAKLANAPFIKVEATKFTEVGYVGKEVDSIIRDLTDAAVKMVRVQAIEKNRYRAEELAEERILDVLIPPAKNNWGQTEQQQEPSAARQAFRKKLREGQLDDKEIEIDLAAAPMGVEIMAPPGMEEMTSQLQSMFQNLGGQKQKARKLKIKDAMKLLIEEEAAKLVNPEELKQDAIDAVEQHGIVFIDEIDKICKRGESSGPDVSREGVQRDLLPLVEGCTVSTKHGMVKTDHILFIASGAFQIAKPSDLIPELQGRLPIRVELQALTTSDFERILTEPNASITVQYKALMATEGVNIEFTDSGIKRIAEAAWQVNESTENIGARRLHTVLERLMEEISYDASDLSGQNITIDADYVSKHLDALVADEDLSRFIL |
| 3625 | sp|A8GCM7|HSPQ\_SERP5 | MIASKFGIGQQVRHKLLGYLGVVIDIDPEYSMEQPKADEIAANTDLRFAPWYHVVMEDEEGQPVHTYLAEAQLDGEAQEAHPEQPSLDELAESIRHQLQAPRLRN |
| 3626 | sp|A3DF27|HRCA\_HUNT2 | MFLDERKKRILQSIIDDYISTAEPVGSRTVARKHELGLSSATIRNEMADLEEMGYLTQPHTSAGRIPSDKGYRFYVDQLMKQSELTMEEIYSIKSAMDTKINELSQLLKQVSVAMSKITKYASMAALPEKKNSVLKAVQVVPVEKGKALVVVITNSGTIKNSLINISETVLPEHLVYVSNIFNEKLSGLTIGQINMPVIREIELLMGPSQDILMPVLNGVTDCIEQIDKSEVFLEGAINMLNYPEFSNVERAREFLKLMVEKDLISRVLKDANSEKDKIVIKIGHENDIEEMKECSLITTTYTAGDVVIGTIGIIGPTRMEYSKVLAAINYMKSKMKEHVERLIGKDLSGK |
| 3627 | sp|Q9JKR6|HYOU1\_MOUSE | MAATVRRQRPRRLLCWALVAVLLADLLALSDTLAVMSVDLGSESMKVAIVKPGVPMEIVLNKESRRKTPVTVTLKENERFLGDSAAGMAIKNPKATLRYFQHLLGKQADNPHVALYRSRFPEHELIVDPQRQTVRFQISPQLQFSPEEVLGMVLNYSRSLAEDFAEQPIKDAVITVPAFFNQAERRAVLQAARMAGLKVLQLINDNTATALSYGVFRRKDINSTAQNVMFYDMGSGSTVCTIVTYQTVKTKEAGMQPQLQIRGVGFDRTLGGLEMELRLREHLAKLFNEQRKGQKAKDVRENPRAMAKLLREANRLKTVLSANADHMAQIEGLMDDVDFKAKVTRVEFEELCADLFDRVPGPVQQALQSAEMSLDQIEQVILVGGATRVPKVQEVLLKAVGKEELGKNINADEAAAMGAVYQAAALSKAFKVKPFVVRDAVIYPILVEFTREVEEEPGLRSLKHNKRVLFSRMGPYPQRKVITFNRYSHDFNFHINYGDLGFLGPEDLRVFGSQNLTTVKLKGVGESFKKYPDYESKGIKAHFNLDESGVLSLDRVESVFETLVEDSPEEESTLTKLGNTISSLFGGGTSSDAKENGTDAVQEEEESPAEGSKDEPAEQGELKEEAEPPAEETSQPPPSEPKGDAAREGEKPDEKESGDKPEAQKPNEKGQAGPEGAAPAPEEDKKPKPARKQKMVEEIGVELAVLDLPDLPEDELARSVQKLEELTLRDLEKQEREKAANSLEAFIFETQDKLYQPEYQEVSTEEQREEISGKLSATSTWLEDEGFGATTVMLKDKLAELRKLCQGLFFRVEERRKWPERLSALDNLLNHSSIFLKGARLIPEMDQVFTEVEMTTLEKVINDTWAWKNATLAEQAKLPATEKPVLLSKDIEAKMMALDREVQYLLNKAKFTKPRPRPKDKNGTRAEPPLNASAGDQEEKVIPPAGQTEEAKPILEPDKEETGTEPADSEPLELGGPGAGPEQEEQSAGQKRPSKNDEL |
| 3628 | sp|B8CI18|HSLU\_SHEPW | MSEMTPREIVHELDSHIIGQQKAKRSVAIALRNRWRRMQLAADLRQEVTPKNILMIGPTGVGKTEIARRLARLAKAPFIKVEATKFTEVGYVGKEVEQIIRDLTDSAIKLTREEQMAKCKFRAEEAAEERILDALLPKPKEDWDNEKPSDNATRQVFRKKLREGQLDDKEIEIDIAAPQAGIEIMSPPGMEEMTNQLQSMFQNMGPGASKRRKMPIKEAHKLLIEEEAAKLVNADDLKEQAIELVEQHGIVFLDEIDKICKRGESSGPDVSREGVQRDLLPLVEGCTVNTKHGMVKTDHILFIASGAFQMSKPSDLIPELQGRLPIRVELEALSADDFKRILTEPHASLTEQYVALMGTEGVEVEFKDSGIDAIAEAAWQVNERTENIGARRLHTVMERLMEELSYEASDKSGSVTVVDADYVKAHLDNLVQDEDLSRFIL |
| 3629 | sp|B0BQP9|HSLO\_ACTPJ | MSYTKDNDKLYRYLFQNRAVRGEWVRLNDTFTETLNTHQYPKAVQNLLGEMLVATSLLTAIMKFEGTITVQIQGDGPLKLAVVNGNEKQQLRALARTQAEIADNASLSEMIGNGVLVISIMPNDGERYQGVIALDKPTIRECLEDYFIRSEQLQTHLVIRTGEYEGKAVAGGLLLQIMPDSTGTPEDFEHLMTLAETVKDEELFGLEAEELLFRLYHEEQVEVYPPQETEFHCGCSRGRSGNAILLLPMEEIDEMLAEKNGVIDMQCECCGTQYFFDKNAIMEFKQEADKLNQLGL |
| 3630 | sp|Q9LV52|HSFC1\_ARATH | MEDDNSNNNNNNNVIAPFIVKTYQMVNDPSTDWLITWGPAHNSFIVVDPLDFSQRILPAYFKHNNFSSFVRQLNTYGFRKVDPDRWEFANEHFLRGQKHLLNNIARRKHARGMYGQDLEDGEIVREIERLKEEQRELEAEIQRMNRRIEATEKRPEQMMAFLYKVVEDPDLLPRMMLEKERTKQQQQVSDKKKRRVTMSTVKSEEEEVEEDEGRVFRVMSSSTPSPSSTENLYRNHSPDGWIVPMTQGQFGSYETGLVAKSMLSNSTSSTSSSLTSTFSLPESVNGGGGGGCGSIQGERRYKETATFGGVVESNPPTTPPYPFSLFRGGF |
| 3631 | sp|Q9FN19|HOS15\_ARATH | MSSLTSVELNFLVFRYLQESGFTHAAFTLGYEAGINKSNIDGNMVPPGALIKFVQKGLQYMEMEANLSNSEVDIDEDFSFFQPLDLISKDVKELQDMLREKKRKERDMEKERDRSKENDKGVEREHEGDRNRAKEKDRHEKQKEREREREKLEREKEREREKIEREKEREREKMEREIFEREKDRLKLEKEREIEREREREKIEREKSHEKQLGDADREMVIDQTDKEIAGDGSTGAEPMDIVMTPTSQTSHIPNSDVRILEGHTSEVCACAWSPSASLLASGSGDATARIWSIPEGSFKAVHTGRNINALILKHAKGKSNEKSKDVTTLDWNGEGTLLATGSCDGQARIWTLNGELISTLSKHKGPIFSLKWNKKGDYLLTGSVDRTAVVWDVKAEEWKQQFEFHSGPTLDVDWRNNVSFATSSTDSMIYLCKIGETRPAKTFTGHQGEVNCVKWDPTGSLLASCSDDSTAKIWNIKQSTFVHDLREHTKEIYTIRWSPTGPGTNNPNKQLTLASASFDSTVKLWDAELGKMLCSFNGHREPVYSLAFSPNGEYIASGSLDKSIHIWSIKEGKIVKTYTGNGGIFEVCWNKEGNKIAACFADNSVCVLDFRM |
| 3632 | sp|P28368|HPF\_BACSU | MNYNIRGENIEVTPALKDHVERKIGKLERYFDHSVDADVNVNLKFYNDKESKVEVTIPMTDLALRSEVHNEDMYNAIDLATNKLERQIRKHKTKVNRKFREQGSPKYLLANGLGSDTDIAVQDDIEEEESLDIVRQKRFNLKPMDSEEAILQMNMLGHNFFVFTNAETNLTNVVYRRNDGKYGLIEPTE |
| 3633 | sp|B7UWI0|HSCB\_PSEA8 | MGKPCHFAQFDLQPAFLVDLDELGQRYRELVRSVHPDRFADAPEREQRLALERAAQLNEAYQTLKSAPRRALYLLTLSGHELPLEATVQDPEFLLQQMQLREELEELQDSADLAGVATFKRRLKAAQAELEREFAACWDDAQRREEAERLVRRMQFLDKLAQEVRQLEERLDD |
| 3634 | sp|Q9DGE1|MK14B\_DANRE | MSQKARPTFYRQELNKTIWEVPERYQNLSPVGSGAYGSVMSAFDGKAGLRVAVKKLSRPFQSIIHAKRTYRELRLLKHMKHENVIGLLDVFSPATSLEGFNDVYLVTHLMGADLNNIVKCQKLTDDHVQFLIYQILRALKYIHSADIIHRDLKPSNLAVNEDCELKILDFGLARLTDDEMTGYVATRWYRAPEIMLNWMHYNMTVDIWSVGCIMAELLTGRTLFPGTDHINQLQQIMRLTGTPPASLISRMPSHEARNYISSLPHMPKRNFADVFIGANPLAVDLLEKMLVLDTDKRITASQALAHPYFAQYHDPDDEPEADPYDQSFESRDLEIEEWKSKIYIQNRN |
| 3635 | sp|A1TEL6|MPRB\_MYCVP | MAADNAGRWPGQPPGPPAPTHPASSVSLRWRVMLLAMSMVVISVVLMAVAVFAVTSRALYDDIDNQLRSRAQMLIESRSLDIDPGKAIEGTAYSDMNAMFYIPGRSKYTANQQGQTLPVGQPEQDVMDGTLLLSLRTVEHQRVLAIRLASGNTLLLSKSLAPTGKVLKRLGTVLLIVGGLGVAVAAIAGGMVASAGLRPVGRLTQAAERVARTDDLRPIPVIGNDELARLTETFNMMLRALAESRERQARLVTDAGHELRTPLTSLRTNVELLMESMKPGAPRIPEEDMAELRTDVIAQIEEMSTLVGDLVDLTRDDAGNAVHETVEITEVIDRSLERVRRRRNDIQFDVAVTPWQVYGDAAGLGRAVLNLLDNAAKWSPPGGRVGVGLTQIDALHAELVVSDRGPGIPPQERALVFERFFRSTSARSMPGSGLGLAIVKQVVLKHGGTLRIEDTVPGGTPPGTAMHVVLPGRPSPAGSDEAER |
| 3636 | sp|A5U123|MPRA\_MYCTA | MSVRILVVDDDRAVRESLRRSLSFNGYSVELAHDGVEALDMIASDRPDALVLDVMMPRLDGLEVCRQLRGTGDDLPILVLTARDSVSERVAGLDAGADDYLPKPFALEELLARMRALLRRTKPEDAAESMAMRFSDLTLDPVTREVNRGQRRISLTRTEFALLEMLIANPRRVLTRSRILEEVWGFDFPTSGNALEVYVGYLRRKTEADGEPRLIHTVRGVGYVLRETPP |
| 3637 | sp|A0R3I7|MPRB\_MYCS2 | MAFPPNSWRPTGPLPTSSLSLRWRVMMLAMSMVALVVVLMAVAVYAVVSRALYDDLDNQLHSRARLLIESGSLAADPGKAIEGTAYSDVNAMLVIPGRSIYTANQQGQTLPLGEPEKDVISGELLMSLRTANHQRVLAVHLANGSSLLISKSLAPTVQVLRRLGTVLLIVGGIGVAVAAIAGGAVARAGLRPVGRLTEAAERVARTDDLRPIPVVGSDELARLTEAFNMMLRALAESRERQARLVSDAGHELRTPLTSLRTNVELLMAAQEPGAPPLPEDEMAGLRADVIAQIEELSTLVGDLVDLTREDAGGITPEPVDMADVIDRSLERVRRRRNDIEFDVDVIGWQVFGDAQGLGRAVLNLLDNAAKWSPPGGRVGVRLHQVDHMHAEIVVSDQGPGIPPEERRLVFERFYRSDAARAMPGSGLGLAIVQQVVLKHGGALRIDETVPGGNPPGASVHMLLPGQRIPDPGATRSAEGFVDDRGGHTVATE |
| 3638 | sp|Q5E9X2|MP2K6\_BOVIN | MSQSKGKKRNPGLKIPKEAFEQPQTSSTPPRDLDSKACISIGNQNFEVKADDLEPIVELGRGAYGVVEKMRHVPSEQIMAVKRIRATVNSQEQKRLLMDLDISMRTVDCPFTVTFYGALFREGDVWICMELMDTSLDKFYKQVIDKGQTIPEDILGKIAVSIVKALEHLHSKLSVIHRDVKPSNVLINALGQVKMCDFGISGYLVDSVAKTIDAGCKPYMAPERINPELNQKGYSVKSDIWSLGITMIELAILRFPYDSWGTPFQQLKQVVEEPSPQLPADKFSEEFVDFTSQCLKKNSKERPTYPELMQHPFFTLHESKATDVASFVKSILGD |
| 3639 | sp|P76217|ASTD\_ECOLI | MTLWINGDWITGQGASRVKRNPVSGEVLWQGNDADAAQVEQACRAARAAFPRWARLSFAERHAVVERFAALLESNKAELTAIIARETGKPRWEAATEVTAMINKIAISIKAYHVRTGEQRSEMPDGAASLRHRPHGVLAVFGPYNFPGHLPNGHIVPALLAGNTIIFKPSELTPWSGEAVMRLWQQAGLPPGVLNLVQGGRETGQALSALEDLDGLLFTGSANTGYQLHRQLSGQPEKILALEMGGNNPLIIDEVADIDAAVHLTIQSAFVTAGQRCTCARRLLLKSGAQGDAFLARLVAVSQRLTPGNWDDEPQPFIGGLISEQAAQQVVTAWQQLEAMGGRPLLAPRLLQAGTSLLTPGIIEMTGVAGVPDEEVFGPLLRVWRYDTFDEAIRMANNTRFGLSCGLVSPEREKFDQLLLEARAGIVNWNKPLTGAASTAPFGGIGASGNHRPSAWYAADYCAWPMASLESDSLTLPATLNPGLDFSDEVVR |
| 3640 | sp|Q9LSQ5|FQR1\_ARATH | MATKVYIVYYSMYGHVEKLAEEIRKGAASVEGVEAKLWQVPETLHEEALSKMSAPPKSESPIITPNELAEADGFVFGFPTRFGMMAAQFKAFLDATGGLWRAQALAGKPAGIFYSTGSQGGGQETTALTAITQLVHHGMLFVPIGYTFGAGMFEMENVKGGSPYGAGTFAGDGSRQPTELELQQAFHQGQYIASITKKLKGSTA |
| 3641 | sp|Q97GC0|FPRA2\_CLOAB | MPAIKIKDNIFSVGVLNPSLRIFDIIMKTEYGTSYNAYLIKGKKNVLIDTVHGRFFDEYLENIKSVIDPSSIDYVIMNHCEPDHSGSLARLYEVAPQIKVIASNAGKIYLKNITNKETLDVKAVKTNDTLDIGNGKVLKFAIAPFLHWPDSMFTILEEDKIAFTCDFLGCHFCEPRMFDTKITYMPKYEKSFKEYYDAIFSPFKPYVVKGLDILDALDLDFIATSHGPILTREGLLAASKQKYRDLSSEIQSTTKYIPIFYCSAYGNTEILANEIASGIKSVLNDANIEMLDIINYDYSDLKEKINICDAFMLGTPTINKDALFPIWELIGGIDAVNCKNKPASAFGSFGWSGEAIPFVISRLKELKLKVFQDGFTCLFVPSEDDIKKAFKFGEDFAKSI |
| 3642 | sp|P63187|GRPE\_AGRFC | MTDDTKKPGPDADVAEEFVDPAQAGEEQAETAEPDPVELLKAENADLRDKFLRLAAEMDNLRRRTERDVKDAKAYSLAGFARDMLAVSDNLRRALEAIPDELKTNGEAGLNGLIEGVEMTERSMLSTLERHGVKKIDAEGQKFDPNFHQAMFEVPNTAVPNNTVLQVIQAGFTIGDRVLRPAMVGVAKGGPKAEPSASAEPGTSSLNEKDA |
| 3643 | sp|A8EWT7|GRPE\_ARCB4 | MSEEKKDEILEQETVETKEEIKTEEAEQKTESLEEKVARLESELKESEEKFLRAYADFENMKKRLEKEKYQAIDYASEKFAKDLLTPLDTLEMALNSAKADVDANELLEKLKEGIELTLKNFITTFEKHNITKVETDGEFDPNVHNAVMQVDSAEHNSGQIVQELQKGYVLKDRLLRPSMVSIAN |
| 3644 | sp|P81087|GPX4\_PINPS | YKDQGLEILAFPCNQFG |
| 3645 | sp|Q8A8C4|GRPE\_BACTN | MDPKEKEKMAEELNVEETKDTAEEQPQDDQAEEAAPLTHEEQLEKELEDAQAVIEEQKDKYLRLSAEFDNYRKRTMKEKAELILNGGEKSISSILPVIDDFERAIKTMETAKDVKAVKEGVELIYNKFMAVMAQNGVKVIETKDQPLDTDYHEAIAVIPAPSEEQKGKILDCVQTGYTLNDKVIRHAKVVVGE |
| 3646 | sp|Q9LYB4|GPX5\_ARATH | MGASSSSSVSEKSIHQFTVKDSSGKEVDLSVYQGKVLLVVNVASKCGFTESNYTQLTELYRKYKDQGFVVLAFPCNQFLSQEPGTSEEAHQFACTRFKAEYPVFQKVRVNGQNAAPVYKFLKSKKPSFLGSRIKWNFTKFLVGKDGQVIDRYGTTVSPLSIQKDIEKALAQEL |
| 3647 | sp|B7IBK6|GRPE\_ACIB5 | MANEQNEQAQDIQNEQVEQSNEQTQAEGVEQANDVTVESLQAQITKLEENLKLEKARTANAVYEAQKSVERIQRESEKHKETVLEKFAKELLDSVDNLERAIQAAGDEETPVLEGVKLTLKSLLTTLEKFGVVEADTQNGFNADLHQAVGIDPNAKANEIGTVLQKGYTLNGRLLRPAMVMVGQ |
| 3648 | sp|O22216|GPDHC\_ARATH | MVGSIEAKSLQSNGSVHHIGLNLEEKLDEFRRLLGKSEKDPLRIVSVGAGAWGSVFAALLQESYGGFRDKFQIRIWRRAGRAVDRETAEHLFEVINSREDILRRLIRRCAYLKYVEARLGDRTLYADEILKDGFCLNMVDTPLCPLKVVTNLQEAVWDADIVVNGLPSTETREVFEEISKYWKERITVPIIISLSKGIETALEPVPHIITPTKMIHQATGVPIDNVLYLGGPNIAAEIYNKEYANARICGAAKWRKPLAKFLRQPHFIVWDNSDLVTHEVMGGLKNVYAIGAGMVAALTNESATSKSVYFAHCTSEMIFITHLLAEEPEKLAGPLLADTYVTLLKGRNAWYGQMLAKGEINRDMGDSISGKGMIQGVSAVGAFYQLLSQSSLSILPSEEKKPVAPVESCPILKTLYKILITREQSTQAILQALRDETLNDPRDRIEIAQSHAFYRPSLLGQP |
| 3649 | sp|Q6NLB0|GSTL1\_ARATH | MALSPPKIFVEDRQVPLDATSDPPALFDGTTRLYISYTCPFAQRVWITRNLKGLQDEIKLVPIDLPNRPAWLKEKVNPANKVPALEHNGKITGESLDLIKYVDSNFDGPSLYPEDSAKREFGEELLKYVDETFVKTVFGSFKGDPVKETASAFDHVENALKKFDDGPFFLGELSLVDIAYIPFIERFQVFLDEVFKYEIIIGRPNLAAWIEQMNKMVAYTQTKTDSEYVVNYFKRFM |
| 3650 | sp|O83245|GRPE\_TREPA | MCGGDVQGQGVASGCDEALERADSLRASDPVPVESGEGSVPGEHSQELETGASEETLRERVNVLQEQYLRKAADLENYRKRALRERQEAVEHAYAALLADIVAVLDDFDRAIEAADHASSTEVEASSAFREGVLMIRKQLSSVLETKYGLEYYPVLGERFDPNLHEALSMSPSASVHEKIVGAELQKGYRVRNRILRHAKVMVLTPEEQTEPDRGDGPSE |
| 3651 | sp|Q9CGY9|GRPE\_LACLA | MSEETKEEIKNEKVDEEVTEELTEEALEDIVEEEINELDEAQKLATEWENKFLRVSAEMQNVQRRGNEERLQLIKYRSQDLAKKILSSLDNLERALAVEGLTDDVKKGLEMVQESLISALKEEGVEEVSYESFDHNIHMAVQTVPADDEHPADSIVQVFQKGYQLHERLLRPAMVVVAQ |
| 3652 | sp|B1Y785|GRPE\_LEPCP | MPDTPKADIPSDNAALEAQGIASELIDDSAARIAELEAKNADLADAYLRAKAEADNIRRRADDDIAKSRKFAVESFAESLLPVKDSLEAAIVSHAAGKGSPEQVIEGVHATLRQLGQALERNKVLEVNPPAGTKFDPHQHQAISVVPAEQEANTVVAVLQKGYLIADRVLRPALVTVAAAK |
| 3653 | sp|A1STE3|GRPE\_PSYIN | MTEDKKTIPEEQVEAEQVVVEEVEAELVENDESAQPQEEAEASNEDLNMIEVLNKKLALAEQQIVDQQADVARAQADVVNARRIAAQDVQKAHKFALVKFADGLLPVIDSLEMAISHADKEDETLKPMIEGVELTLKSMLDTVDKFGLKVIDPKDEAFDPEKHQAMSMRAVPDVAPNQVIAVMQKGYELNGRVIRPAMVMVSKAED |
| 3654 | sp|Q6GJB7|HCHA\_STAAR | MSQDVNKLSKQPTPDKAEDNAFFPSPYSLSQYTAPKTDFDGVEHKGAYKDGKWKVLMIAAEERYVLLENGKMFSTGNHPVEMLLPLHHLMEAGFDVDVATLSGYPAKLELWAMPTEDEAVISTYNKLKEKLKQPKKLADVIKNELGPDSDYLSVFIPGGHAAVVGISESEDVQQTLDWALENDRFIVTLCHGPAALLSAGLNREKSPLEGYSVCVFPDSLDEGANIEIGYLPGRLKWLVADLLTKQSLKVVNDDMTGRTLKDRKLLTGDSPLASNELGKLAVNEMLNAIQNK |
| 3655 | sp|Q9JLS0|HLPDA\_MOUSE | MKFMLNLYVLGIMLTLLSIFVRVMESLGGLLESPLPGSSWITRGQLANTQPPKGLPDHPSRGVQ |
| 3656 | sp|B8GNC7|HFQ\_THISH | MSKGQTLQEPFLNALRKERIPVSIYLVNGIKLQGQIDSFDQFVVLLKNTVSQMVYKHAISTIVPSRPVKLAMPEDMQPED |
| 3657 | sp|Q65SD5|HFQ\_MANSM | MAKGQSLQDPYLNALRRERIPVSIYLVNGIKLQGQIESFDQFVILLKNTVNQMVYKHAISTVVPARSVSHHNNPQQQQQHSQQTESAAPAAEPQAE |
| 3658 | sp|Q1H0Y0|HFQ\_METFK | MSVKGQMLQDPFLNTLRKEHVPVSIYLVNGIKLQGQVDSFDQYVILLKNTVTQMVYKHAISTIVPGRAVSIPHGPTPTSES |
| 3659 | sp|Q2YBW6|HFQ\_NITMU | MSAKGQLLQDPFLNTLRKEHIPVSIYLVNGIKLQGHIDSFDQYVVLLKNTVTQMVYKHAISTVVPARAVNIPFEAPPISDA |
| 3660 | sp|Q4UTQ8|HFQ\_XANC8 | MAKGQSLQDPFLNALRRERVPVSVYLVNGIKLQGTIESFDQFVVLLRNTVSQMVYKHAISTVVPARNVRVGPGGGYVQSNENNQAEDDDVEQ |
| 3661 | sp|Q8Y025|HFQ\_RALSO | MSNKGQLLQDPFLNALRKEHVPVSIYLVNGIKLQGNIESFDQYVVLLRNTVTQMVYKHAISTVVPARAVNFRVDEASDA |
| 3662 | sp|B1IM65|HFQ\_CLOBK | MTKVVNNLQDIFLNGARKNRIPVTIYLTNGFQLKGFVKGFDNFTVILDSDGKQMMIYKHAISTINPAKPLLFVQNPNGDDYKDKE |
| 3663 | sp|A3N3P9|HFQ\_ACTP2 | MAKGQSLQDPYLNALRRERIPVSIYLVNGIKLQGQIESFDQFVILLKNTVSQMVYKHAISTVVPARSVSHNNGGTSHTQQAPAVEAVADKAE |
| 3664 | sp|Q9FVL0|HBL1\_MEDSA | MGTLDTKGFTEEQEALVVKSWNAMKKNSAELGLKLFLKIFEIAPSAQKLFSFLKDSKVPLEQNTKLKPHAMSVFLMTCESAVQLRKSGKVTVRESSLKKLGANHFKYGVVDEHFEVTKFALLETIKEAVPEMWSPAMKNAWGEAYDQLVNAIKSEMKPSS |
| 3665 | sp|B5FBR4|HFQ\_ALIFM | MAKGQSLQDPFLNALRRERIPVSIYLVNGIKLQGQIESFDQFVILLKNTVNQMVYKHAISTVVPARAVSHHSASDRPQGERPQEKTEE |
| 3666 | sp|Q5QW99|HFQ\_IDILO | MAKGQTLQDPFLNALRRERIPVSIYLVNGIKLQGQIESFDQFVVLLKNTVSQMVYKHAISTVVPARIPQNYLPQQAGEDMAEIED |
| 3667 | sp|A9AH01|HFQ\_BURM1 | MSNKGQLLQDPFLNALRKEHVPVSIYLVNGIKLQGNIESFDQYVVLLRNTVTQMVYKHAISTVVPARPVNFHPDAEASS |
| 3668 | sp|B2VJU8|HSLO\_ERWT9 | MSQQDQMHRYLFENHAVRGELVTVSQTWNEIIQGHDYPQPVQQILGELLVATSLLTATLKFDGDITVQLQGDGPLKMAVINGNNRQEMRGVARMQGEIAEGSSLKEMIGNGYLVITISPEVGERYQGVVGLEGDTLAACLEDYFMRSEQLPTRLFIRSGEAEKGLGAGGILLQVLPAQDASLDDFNHLATLTETIKTEELLDLPAHDVLWRLYHQEEVTLFDPQAVSFKCSCSRQRCGEVLRTLPPEEVDQMLQEDGHIDMHCDYCGNNYVYDAVDIAALRTDSADNDRQVH |
| 3669 | sp|Q7XRX3|HFB2A\_ORYSJ | MASPAAGTPPFLTKTYAMVEDPSTDETISWNDSGTAFVVWRPAEFARDLLPKHFKHSNFSSFVRQLNTYGFKKVVADRWEFANDCFRRGEKHLLGGIQRRKGSGTGGAGAAPAGGIPTAIPISSPPTSSGGEPAVSSSPPRGAAGIAAGVSGAVAELEEENARLRRENARLARELARARRVCDGVRRLVSRYDHDHGGGEEEAGEGDVKPMLFGVAIGGKRSREENGEDEEEEEEEGADEDGEDDEVEEDDEERERHAARRVPVREGKVRRTTELSDLDVLALSVRAAAAARPGGASRDRKSSVS |
| 3670 | sp|O49403|HFA4A\_ARATH | MDENNHGVSSSSLPPFLTKTYEMVDDSSSDSIVSWSQSNKSFIVWNPPEFSRDLLPRFFKHNNFSSFIRQLNTYGFRKADPEQWEFANDDFVRGQPHLMKNIHRRKPVHSHSLPNLQAQLNPLTDSERVRMNNQIERLTKEKEGLLEELHKQDEEREVFEMQVKELKERLQHMEKRQKTMVSFVSQVLEKPGLALNLSPCVPETNERKRRFPRIEFFPDEPMLEENKTCVVVREEGSTSPSSHTREHQVEQLESSIAIWENLVSDSCESMLQSRSMMTLDVDESSTFPESPPLSCIQLSVDSRLKSPPSPRIIDMNCEPDGSKEQNTVAAPPPPPVAGANDGFWQQFFSENPGSTEQREVQLERKDDKDKAGVRTEKCWWNSRNVNAITEQLGHLTSSERS |
| 3671 | sp|Q6VBA4|HFC1A\_ORYSJ | MDGLHTELALGLIGCCGGDGQQQTAPFVAKTYQMVCDPRTDALVRWGRDNNSFVVVDPAAFSQLLLPCFFKHGNFSSFVRQLNTYGFRKVHPDRWEFAHESFLRGQTHLLPRIVRRKKRGEGGGGGGGASCSFGGGAGEHQVAAAAASVGMSGEEEDAAEDVLAKEAALFEEVQRLRHEQTAIGEELARMSQRLQATERRPDQLMSFLAKLADDPNAVTGHLLEQAAERKRRRQHLPSHEPTVCPLPPAPPPQPPQPLLALAGAAAMDGTYWWTTEHHHHHHHQMKPMTVLPSLEPPTASCGVHQVPELGGGGVMGLTTDGEAKVEPPFPFCLLGQAFF |
| 3672 | sp|A6TB00|HTPX\_KLEP7 | MMRIALFLLTNLAVMVVFGLVLSLTGIQSSSMTGLLIMALLFGFGGSIVSLMMSKWMALKSVGGEVIEQPRNETERWLMNTVAQQAQQVGIAMPQVAIYHAPDINAFATGARRDASLVAVSTGLLQNMSRDEAEAVIAHEISHIANGDMVTMTLIQGVVNTFVIFISRVIAQIAAGFLGGNREDEGESSNGNPLIYFAVATVLELVFGILASIITMWFSRYREFHADAGSARLVGREKMIAALQRLKTSYEPQEASSMMAFCINGKAKSMSELFMTHPPLDKRIEALRSGEYLK |
| 3673 | sp|B5BHF6|HSLO\_SALPK | MPQHDQLHRYLFENFAVRGELVTVSETLQQILDNHTYPQPVKTVLAELLVATSLLTATLKFAGDITVQLQGDGPLSLAVINGNNQQQMRGVARVQGDIPDNADLKTLVGNGYLVITITPEEGERYQGVVGLEGDTLAACLEDYFLRSEQLPTRLFIRTGDVDGKPAAGGMLLQVMPAQNAQAEDFDHLAMLTETIKSEELLTLPANDVLWRLYHEEEVTLYDPQDVEFKCTCSRERCAGALKTLPDEEVDSILAEEGEIDMHCDYCGNHYLFNAMDIAEIRNNASPADPQVH |
| 3674 | sp|Q9STH1|HSOP3\_ARATH | MAEEAKSKGNAAFSSGDYATAITHFTEAINLSPTNHILYSNRSASYASLHRYEEALSDAKKTIELKPDWSKGYSRLGAAFIGLSKFDEAVDSYKKGLEIDPSNEMLKSGLADASRSRVSSKSNPFVDAFQGKEMWEKLTADPGTRVYLEQDDFVKTMKEIQRNPNNLNLYMKDKRVMKALGVLLNVKFGGSSGEDTEMKEADERKEPEPEMEPMELTEEERQKKERKEKALKEKGEGNVAYKKKDFGRAVEHYTKAMELDDEDISYLTNRAAVYLEMGKYEECIEDCDKAVERGRELRSDFKMIARALTRKGSALVKMARCSKDFEPAIETFQKALTEHRNPDTLKKLNDAEKVKKELEQQEYFDPTIAEEEREKGNGFFKEQKYPEAVKHYSEAIKRNPNDVRAYSNRAACYTKLGALPEGLKDAEKCIELDPSFTKGYSRKGAIQFFMKEYDKAMETYQEGLKHDPKNQEFLDGVRRCVEQINKASRGDLTPEELKERQAKAMQDPEVQNILSDPVMRQVLVDFQENPKAAQEHMKNPMVMNKIQKLVSAGIVQVR |
| 3675 | sp|Q6Z6L5|HSP19\_ORYSJ | MELSVVGGEPLLAVAMQQLLDLDLPDELERQLNPPTRAYVRDRRAMANTPMDVKELRASGALVLAVDMPGVAPADVRVEVEDGNVLAISGERRRPAGDGDDGGEGVKYLRMERRMGKFMRRFPLPESADLDGVRAEYKDGVLTVTVDKKPPPEPKKPRVVEVKVAGAGEPKGKGK |
| 3676 | sp|A1VYN0|HTPG\_CAMJJ | MQFQTEVNQLLQLMIHSLYSNKEIFLRELISNASDALDKLNFLSVSDDKYKSLKFEPKIEIKIDKDKKTLSISDNGIGMDKDDLINNLGTIAKSGTKSFLENLSGDAKKDSQLIGQFGVGFYSAFMVASKIEVLSKKALDDKAYLWSSDANGYEIDDANKEEQGTSITLYLKDDEFANAYKIESIIEKYSNHIQFPIFMEKEEFTPAKEGEEEGKTELKISQINKANALWRMQKSSLKAEDYERFYEQNFHDSNKPLLYLHTKSEGKLEYNSLFFIPQNAPFDLFRVDYQSGLKLYVKRVFISDDDKELLPTYLRFVRGIIDVEDLPLNVSREILQENQILKGVKEASVKKILGELEKLKNNDKEKYLSFFKTFGKVLKEGLYGFGGEKDSLLKLMLYKSTKGENLRSLEEYKNDLQGEQKEIFYIAGNNESLLRTSPLLEEYKQKNIEVLLMDDEIDSLVTPMLEFEGLKFVAINQVEDKNELSDEEKNTFAPLVAKFKELLKDQVEDVRLTSRLKDSPSCIVYDKNKPDFAMQQLLKQMGQEQNFKPILEINPKHAIFTGLKNNESFSADIATLVLNMAKLSEGMGVDNPAEFNASLTKIINKAFS |
| 3677 | sp|Q0BD34|HTPG\_BURCM | MAHETMSFQAEVKQLLHLMIHSLYSNKEIFLRELVSNASDAADKLRFEGLADNALYENDPNLRIRIGFDKAARTITIDDNGIGMSRDEAIANLGTIARSGTKEFFTKLSGDQQKDAALIGQFGVGFYSGFIVADKITVETRRAGLPANEAVRWESAGEGDFTIDAIERAQRGTTITLHLREGEDELLSSHRLKSIIQKYSDHIALPILMQKEEWDQEKGEMVLKDEDETVNQASALWTRSKSDITDEQYTQFYQHVAHDHQDPLTWTHNRVEGRSEYTQLLFVPAHAPFDLWNRDYRGGLKLYVKRVFIMDDAEQLLPQYLRFVKGVVDSADLPLNVSREILQESRDVKAIREGVTKRALSMLEELANAEEEAGKEKYKTFWSAFGQVLKEGLGEDHANRERIAKLLRFASTHGDTDAQDVSLADYVSRMKPEQSKIYYVTADTWQAAKNSPHLEVFRKKGVEVLLLTDRVDEWMLSFLHEFDGKPLASVARGDLDLGELNDEEKKAQEQAGEAIKPVVEKMKEALGDKVKEVRVTFRLTDSPSCLVADDNDMSGYLQRMLKAAGQNAPAMQPILEINPEHALVKQLNADSASFGDWCHLLFDQALLAEGGMLDDPASFVKRTNALLLSRAA |
| 3678 | sp|B7NLF0|HSPQ\_ECO7I | MIASKFGIGQQVRHSLLGYLGVVVDIDPVYSLSEPSPDELAVNDELRAAPWYHVVMEDDNGLPVHTYLAEAQLSSELQDEHPEQPSMDELAQTIRKQLQAPRLRN |
| 3679 | sp|P48722|HS74L\_MOUSE | MSVVGIDLGFLNCYIAVARSGGIETIANEYSDRCTPACISLGSRTRAIGNAAKSQIVTNVRNTIHGFKKLHGRSFDDPIVQTERIRLPYELQKMPNGSTGVKVRYLEEERPFAIEQVTGMLLAKLKETSENALKKPVADCVISIPSFFTDAERRSVMAAAQVAGLNCLRLMNETTAVALAYGIYKQDLPSLDEKPRNVVFIDMGHSAYQVSVCAFNKGKLKVLATTFDPYLGGRNFDEALVDYFCDEFKTKYKINVKENSRALLRLYQECEKLKKLMSANASDLPLNIECFMNDLDVSSKMNRAQFEQLCASLLARVEPPLKSVMDQANLQREDINSIEIVGGATRIPAVKEQVTRFFLKDISTTLNADEAVARGCALQCAILSPAFKVREFSITDLVPYSVTLRWKTSFEEGTGECEVFSKNHPAPFSKVITFHKKEPFELEAFYTNLHEVPYPDPRIGNFTIQNVFPQSDGDSSKVKVKVRINIHGIFSVASASVIEKQNLEGDHNDAAMETEAPKSEGKEDVDKMQVDQEEGGHQKCHAEHTPEEEIDHTGAKAKAPPSDKQDRINQTIKKGKIKSIDLPIQSSLYRQLTQDLLNSYIENEGKMIMQDKLEKERNDAKNAVEEYVYDFRDKLGTVYEKFITPEDMNKLSAMLEDTENWLYEEGEDQPKQVYVDRLQELKKYGQPIQMKYVEHEERPKALNDLGKKIQLVLKVIEAHRNKDERYDHLDPAEMERVEKYISDSMNWLNSKMNAQNKLSLTQDPVVKVSEIVTKSKELDNFCNPIVYKPKPKVEAPEDKAKTGSEHNGPMDGQSGSETSPDPPKGSSQHTDSGEMEVD |
| 3680 | sp|Q8J2M3|HSP82\_ASHGO | MSSQETYEFQAEITQLMSLIINTVYSNKEIFLRELISNASDALDKIRYQSLSDPKVLESDPELFIRLTPKPEEKVLEIRDSGIGMTKAELINNLGTIAKSGTKAFMEALSAGADVSMIGQFGVGFYSLFLVADRVQVISKHNDDEQYIWESNAGGSFTVTLDEVNERIGRGTILRLFLKEDQLEYLEEKRIKEVVKRHSEFVAYPIQLLVTKEVEKEVPVEEEEKKEETEDDKKPKLEEVDEEEEDKEKSKTKKVKENVKELEELNKTKPLWTRNPSEVTQEEYNAFYKSISNDWEDPLAVKHFSVEGQLEFRAILFIPKRAPFDLFESKKKKNNIKLYVRRVFITDEAEELIPEWLSFVKGVVDSEDLPLNLSREMLQQNKIMKVIKKNIVKKLIEAFNEIAEDSEQFEKFYSAFAKNIKLGIHEDSQNRASLAKLLRYNSTKSVDEQTSLADYVTRMPEHQKNVYFITGESIKAVEKSPFLDALKAKNFEVLFLVDPIDEYAFQQLKEFEGKQLVDITKDFELEESEEEKKQREEEIKEFEPLTAALKEVLGDQVEKVVVSYKLIDAPAAIRTGQFGWSANMERIMKAQALRDSTMSSYMASKKIFEISPKSAIIKELKKRVEDNGAQDRTVKDLTSLLYETALLTSGFTLEEPASFATRINRLISLGLNIDEEESTETAAETATEAPVEEVAPETAMEEVD |
| 3681 | sp|P32589|HSP7F\_YEAST | MSTPFGLDLGNNNSVLAVARNRGIDIVVNEVSNRSTPSVVGFGPKNRYLGETGKNKQTSNIKNTVANLKRIIGLDYHHPDFEQESKHFTSKLVELDDKKTGAEVRFAGEKHVFSATQLAAMFIDKVKDTVKQDTKANITDVCIAVPPWYTEEQRYNIADAARIAGLNPVRIVNDVTAAGVSYGIFKTDLPEGEEKPRIVAFVDIGHSSYTCSIMAFKKGQLKVLGTACDKHFGGRDFDLAITEHFADEFKTKYKIDIRENPKAYNRILTAAEKLKKVLSANTNAPFSVESVMNDVDVSSQLSREELEELVKPLLERVTEPVTKALAQAKLSAEEVDFVEIIGGTTRIPTLKQSISEAFGKPLSTTLNQDEAIAKGAAFICAIHSPTLRVRPFKFEDIHPYSVSYSWDKQVEDEDHMEVFPAGSSFPSTKLITLNRTGDFSMAASYTDITQLPPNTPEQIANWEITGVQLPEGQDSVPVKLKLRCDPSGLHTIEEAYTIEDIEVEEPIPLPEDAPEDAEQEFKKVTKTVKKDDLTIVAHTFGLDAKKLNELIEKENEMLAQDKLVAETEDRKNTLEEYIYTLRGKLEEEYAPFASDAEKTKLQGMLNKAEEWLYDEGFDSIKAKYIAKYEELASLGNIIRGRYLAKEEEKKQAIRSKQEASQMAAMAEKLAAQRKAEAEKKEEKKDTEGDVDMD |
| 3682 | sp|P07901|HS90A\_MOUSE | MPEETQTQDQPMEEEEVETFAFQAEIAQLMSLIINTFYSNKEIFLRELISNSSDALDKIRYESLTDPSKLDSGKELHINLIPSKQDRTLTIVDTGIGMTKADLINNLGTIAKSGTKAFMEALQAGADISMIGQFGVGFYSAYLVAEKVTVITKHNDDEQYAWESSAGGSFTVRTDTGEPMGRGTKVILHLKEDQTEYLEERRIKEIVKKHSQFIGYPITLFVEKERDKEVSDDEAEEKEEKEEEKEKEEKESDDKPEIEDVGSDEEEEEKKDGDKKKKKKIKEKYIDQEELNKTKPIWTRNPDDITNEEYGEFYKSLTNDWEEHLAVKHFSVEGQLEFRALLFVPRRAPFDLFENRKKKNNIKLYVRRVFIMDNCEELIPEYLNFIRGVVDSEDLPLNISREMLQQSKILKVIRKNLVKKCLELFTELAEDKENYKKFYEQFSKNIKLGIHEDSQNRKKLSELLRYYTSASGDEMVSLKDYCTRMKENQKHIYFITGETKDQVANSAFVERLRKHGLEVIYMIEPIDEYCVQQLKEFEGKTLVSVTKEGLELPEDEEEKKKQEEKKTKFENLCKIMKDILEKKVEKVVVSNRLVTSPCCIVTSTYGWTANMERIMKAQALRDNSTMGYMAAKKHLEINPDHSIIETLRQKAEADKNDKSVKDLVILLYETALLSSGFSLEDPQTHANRIYRMIKLGLGIDEDDPTVDDTSAAVTEEMPPLEGDDDTSRMEEVD |
| 3683 | sp|C4V6H6|HSF\_NOSCE | MKSDKTPKINKFIRRLYKIVNDNSFSEIQWTTDGLRFYITDKTAFMLNGLKYLSKTTEYSAFVRLLYVYGFSKSKSLNAYEEEYYHKNFKRDGDNLLPCIQRTVETKTTLLQKNTNRTPNQLQDLLQYLNNQNFKLEGEIKSLKDRVDQQDCTINGLVQLLTRIFRTNDSNKDMLLPLNITEHGSPINNELRINYDKNQVARLMADTPNIDGRLENTNIELSNNKNFLFDSDDEDSIYKTNFF |
| 3684 | sp|P27890|HSP83\_LEIDO | TKKVKEVTKEYEVQNKHKPLWTRDPKDVTKEEYAAFYKAISNDWEDPMATKHFSVEGQLEFRSIMFVPKRAPFDMFEPNKKRNNIKLYVRRVFIMDNCEDLCPDWLGFVKGVVDSEDLPLNISRENLQQNKILKVIRKNIVKKCLEMFDEVAENKEDYKQFYEQFGKNIKLGIHEDTANPKKLMEFLRFYSTESGLEMTTLKDYVTRMKEGQKSIYYITGDSKKKLESSPFIEQARRRGLEVLFMTEPIDEYVMQQVKDFEDKKFACLTKEGVHFEESEEEKQQREEEKAACEKRCKTMKEVLGDKVEKVTVSDRLSTSPCILVTSEFGWSAHMEQIMRNQAVRDSSMSAYMMSKKTMELNPRHPIIKVLRRRVEADENDKAVKDLVFLLFDTSLLTSGFQLEDPTGYAKRINRMIKLGLSLDEEEEAAEATVVETAPAEVTVGTSSMEQVD |
| 3685 | sp|A5A6K9|HS90A\_PANTR | MPEETQTQDQPMEEEEVETFAFQAEIAQLMSLIINTFYSNKEIFLRELISNSSDALDKIRYESLTDPSKLDSGKELHINLIPNKQDRTLTIVDTGIGMTKADLINNLGTIAKSGTKAFMEALQAGADISMIGQFGVGFYSAYLVAEKVTVITKHNDDEQYAWESSAGGSFTVRTDTGEPMGRGTKVIPHLKEDQTEYLEERRIKEIVKKHSQFIGYPITLFVEKERDKEVSDDEAEEKEDKEEEKEKEEKESEDKPEIEDVGSDEEEEEKKDGDKKKKKKIKEKYIDQEELNKTKPIWTRNPDDITNEEYGEFYKSLTNDWEDHLAVKHFSVEGQLEFRALLFVPRRAPFDLFENRKKKNNIKLYVRRVFIMDNCEELIPEYLNFIRGVVDSEDLPLNISREMLQQSKILKVIRKNLVKKCLELFTELAEDKENYKKFYEQFSKNIKLGIHEDSQNRKKLSELLRYYTSASGDEMVSLKDYCTRMKENQKHIYYITGETKDQVANSAFVERLRKHGLEVIYMIEPIDEYCVQQLKEFEGKTLVSVTKEGLELPEDEEEKKKQEEKKTKFENLCKIMKDILEKKVEKVVVSNRLVTSPCCIVTSTYGWTANMERIMKAQALRDNSTMGYMAAKKHLEINPDHSIIETLRQKAEADKNDKSVKDLVILLYETALLSSGFSLEDPQTHANRIYRMIKLGLGIDEDDPTADDTSAAVTEEMPPLEGDDDTSRMEEVD |
| 3686 | sp|P22335|HSF24\_SOLPE | MSQRTAPAPFLLKTYQLVDDAATDDVISWNEIGTTFVVWKTAEFAKDLLPKYFKHNNFSSFVRQLNTYGFRKIVPDKWEFANENFKRGQKELLTAIRRRKTVTSTPAGGKSVAAGASASPDNSGDDIGSSSTSSPDSKNPGSVDTPGKLSQFTDLSDENEKLKKDNQMLSSELVQAKKQCNELVAFLSQYVKVAPDMINRIMSQGTPSGSSLEELVKEVGGVKDLEEQGSYNDNDDKEDDDEKGDTLKLFGVLLKEKKKKRGPDENIETCGGRGKMMKTVDYNGPWMKMSSPAGESSKVCN |
| 3687 | sp|A4QFZ9|HRCA\_CORGB | MVSATEKRRYEVLRAIVADYIASQEPVGSKSLLERHKLNVSSATIRNDMSVLESDGFIVQEHASSGRVPTERGYRLFVDSIHDIKPLSLAERRAILGFLEGGVDLEDVLRRSVQLLSQLTHQAAVVQLPTLKTARVKHCEVVPLSPMRLLLVLITDTGRVDQRNVELEEPLAAEEVNVLRDLLNGALGEKTLTAASDALEELAQQAPTDIRDAMRRCCDVLVNTLVDQPSDRLILAGTSNLTRLSRETSASLPMVLEALEEQVVMLKLLSNVTDLDQVRVHIGGENEDIELRSATVITTGYGSQGSALGGLGVVGPTYMDYSGTISKVSAVAKYVGRVLAGE |
| 3688 | sp|Q1JKD4|HRCA\_STRPC | MITQRQNDILNLIVELFTQTHEPVGSKALQRTIDSSSATIRNDMAKLEKLGLLEKAHTSSGRMPSPAGFKYFVEHSLRLDSIDEQDIYHVIKAFDFEAFKLEDMLQKASHILAEMTGYTSVILDVEPARQRLTGFDVVQLSNHDALAVMTLDESKPVTVQFAIPRNFLTRDLIAFKAIVEERLLDNSVIDIHYKLRTEIPQIVQKYFVTTDNVLQLFDYVFSELFLETVFVAGKVNSLTYSDLSTYQFLDNEQQVAISLRQSLKEGEMASVQVADSQEAALADVSVLTHKFLIPYRGFGLLSLIGPIDMDYRRSVSLVNIIGKVLAAKLGDYYRYLNSNHYEVH |
| 3689 | sp|Q2RKX6|HRCA\_MOOTA | MRMDERKQKVLAAVIQDYILTGEPVGSRTIARRYNLGVSPATIRNEMADLEEMGLLEQPHTSAGRIPSDQGYRYYVDCLMPPAHLTPEEEEYVRRRYNQKMLEIEQVLAETTRLISEMTSYAAIALGPDQGRASLEEVQVLPIQVANKALLVAVTSTGVVEHRVLTIPEGVTPEDLNRISRVLNARLQGRALEDLRQMVLSDIYQELAQHRNLVNLVRDLLQQLLSLESGERVYRNGTLNILNQPEFKDLDRVREILSFLDQDEALRRIFMTTPSTGLTIRIGQENKIEGIDKCSVVTISYAVEGKIMGKVGLLGPTRMQYSRAISVLRCVADALSQTLEQLYR |
| 3690 | sp|Q05827|HOR7\_YEAST | MKLSQVVVSAVAFTGLVSAANSSNSSSSKNAAQPIAGLNNGKVAGAAGVALAGALAFLI |
| 3691 | sp|B4SG54|HRCA\_PELPB | MGFRDLNLRERQVLGIIIQAYVVTAAPVGSRYIARNYNLGFSDATIRNVMAELEDEGYISQPHTSAGRIPTDKGYRYYVDLIMTFQSLDDNEKKRIEENIGQISIDRKGTSSDVLLSAVKVLGTISRQLSVVLSPTLSNAIFEKLDMVLLSSTRMMVILSIQSLFVKTIVMELDLEVSRQTIDGVVDMLNQRLSGLTLAEIRRSITRRLSGCSCDSGLKNLIVRSAGTLFDESPIFERLYISGTEYIVDQPEFKQPDKVRELITMIEDKFSMAKLVENSGPSRMDITISIGKENCERQAEDLTIVSAPYYVGNMVGKLGILGPKRMDYEHAVRVLNYMADSLSTTLSGVN |
| 3692 | sp|Q2JDK0|HRCA\_FRACC | MLEDRRLEVLRAIVEDFVLSNEPVGSKALAERHNLGVSPATVRNDMSALEEEGYITQPHTSAGRIPTDKGYRLFVDRLSGVKPLSRAERRAIQSFLEGAVDLDDVVRRSVRLLAQLTRQVAVVQYPSLSSSSIRHIEVVTLGPYRLLMVLITDTGRVEQRIVDSLVPVDDEVAGELRSVLNCALAGRRLVDAPDIVAALPDSTRSELRPYLTTVAGAVLESLVERQEERIAMAGTANLTRSPVDFADSLRSILEALEEQVVLMKLIGSARETGTVTVRIGRETDVDALRSTAVVATGYGRGPFALGGMGVLGPMRMDYPGTMAAVRAVAKYVGELLGAD |
| 3693 | sp|A7NS62|HRCA\_ROSCS | MTTDLTDRRQLILKLAIQEFIESSQPVASELLVRKYRLNVSPATVRNELAALEELGYLTHLHTSAGRVPTDAGYRYFVENLMDRTPLSATEQRTIRHQFYQVRSELDQWIQLAGAVLARTAQNASVVTPPRAQQARLKHLELISIHDTTALMVLVLHDGTIRQQTLTLDMALSQEELSRRASRINERCADAPVERVEEFLKQERAHEPPGGDALACQVLDLIVKAMHQFNEHLNSDIHSDGLIEILNQPEFSQVERVRRMIEILQSRRALGTLIPRALSSSGVQVVIGGEHSYDEMREYSVVLSRYGGGEIVGVLGVIGPTRMAYPRAISAVRYISAVMSDLLAELYGIEGDTHWEVES |
| 3694 | sp|Q1WUF0|HRCA\_LACS1 | MLTERQLLILETIIRDYTDLGQPIGSKTLQEQLPIRVSSATIRNEMAVLEKQGFITKEHSSSGRIPSLKGYRYYVDNLVKPVKIDSKSVRSIQSLFGNEYRRVDEIIEMSAKILSDLTNYTAITLRPEASDLKLEGFRMVPLGNGQVMVILVASDGSVESQIYNLPNNIDGESLEAVIRLINDKLVGSSLSEVTSKLQELQPLLTKYIEKSDGFIDVFGGILDKAIKEQFYIGGRRNLLNFANGNNLEQIKSLYSLIDDESDKIGGLVDNTTNPHDHHGISVKIGDEMSDRLLLDYSLVSATYNVGSHGRGMIAILGPTNMPYSKMIGLVEVFQKELTKKLIDYYRNFDK |
| 3695 | sp|A9VHU3|HRCA\_BACMK | MLTERQLLILQTIVDDFIGSAQPVGSRTLAKKDEITFSPATIRNEMADLEELGFIEKTHSSSGRVPSEKGYRFYVDHLLAPQNLPTDEIVQIKDLFAERIFEAEKIAQQSAQILSELTNYTAIVLGPKLSTNKLKNVQIVPLDRQTAVAIIVTDTGHVQSKTITVPESVDLSDLEKMVNILNEKLSGIPMAELHNKIFKEIVTVLRGYVHNYDSAIKMLDGTFQVPLSEKIYFGGKANMLSQPEFHDIHKVRSLLTMIDNEAAFYDILRHKQVGIQVKIGRENSSTAMEDCSLISATYSIGEEQLGTIAILGPTRMQYSRVISLLQLFTRQFTDGLKK |
| 3696 | sp|B8I307|HRCA\_RUMCH | MLLDDRKLKILQAIIDDYIYSAEPVGSRTIAKKHELGLSSATIRNEMADLEEMGLLEQPYTSAGRIPSDRGYRLYVDQLMKIDELNECEIEKIRSDMNIRINELSQLIRSASAVMAKITKYTSMAVSPHMKKSVLKSVQVVPIESGKALVIIVTDANIVRNNLIRIPESVTPAFLIQISNMLNEQLKGFTLEMLKSDILNEKFEKLTALPFRLIKPILDGIEELIITIDNPEVYLEGATNILNFPEFKEVDKAKEFLNILDEKKLVSDLLTNSVNDNNEIIIHIGNENAMEGIKDCSLVTASYSVGNHVIGTIGIIGPTRMEYSRVVSSMNYIRNKINQEILKLLDNG |
| 3697 | sp|B2JGE8|HRCA\_PARP8 | MLDPRAQTLLKTLIERYIAEGQPVGSRTLSRYSGLELSPATIRNVMSDLEELGLVISPHTSAGRIPTPRGYRLFVDTMLTVEPSADEDAVMRAVKTTLQPGEPQKVVAAAASVLSNLSQFAGVILTPRRSHVFKQIEFLRLSDKRILLIIVTPEGDVQNRIMATQRDFTPSQLVEASNYINAHFAGLSFDEVRRRLREEIDELRGDMTTLMHAAVTASTDVTDTGETVLISGERKLLEVADLSSDMARLRKLFDVFDQKTSLLQLLDVSSHAQGVQIFIGGESNLVPIEEMSVVTAPYEVNGKIVGTLGVIGPTRMAYNRVIPIVDITARLLSMTLSQQ |
| 3698 | sp|Q6F147|HRCA\_MESFL | MLSERQAKILKVIVSEYIKTNQAVSSKRIQELLNIKVSSATIRNDSAALEEMNFLEKQHTSSGRVPSTKGYRYYVDHLMEFDDYNESLKENLKSILFQRGTKIENVLEQASQIISEMTKMTAIVTKQNLNSELMVKKIDLIPLSETMASVIFILSNGEMQNQLFNLKDISLSDLSISIKIFSDCLVDTPVKEIENNISLIRPNLETTVKNYDLILETFMSNILQTKESKKEIVGMKNMLENPEFNDTDKLRKVINIMENMSPFDWFDVSYSSNQKMIQISTKIGEEISEDLSDISIVETAIKTEQGSTMLTLVGPKRVDYSQANQLINLIVEIINGDDHKNE |
| 3699 | sp|Q9CGZ0|HRCA\_LACLA | MITERQRQILNLIVSLYAKEHTPIGSKSLLDSIQASSATIRNDMKVLEKLGLIQKEHTSSGRVPSVSGYKYFVENVIQLDEFSQNDLFKVMKAFDGDFYRLSDLFKTAAKSLSGLTGLTSFVLNAPQRDQQLVSFEMVMLDSHSVLSVITLGTGEVRTNQFILPKSMTEADLAVFSNLVKERLVGKKVIDIHYTLRTEIPQIVQRYFKVTSEVLQLFESIFDDLFKERLTVAGRKNIFDYATDNLAELYKLFSDDERMLHEIREITNNDEMRAVKFDNDEKYMKNLTIISQKFVIPYRGFGTLTVVGPVEMDYQRTLSVLDLVAKVLTMKLSDYYRYLDGNHYEISK |
| 3700 | sp|Q9F1W4|HRCA\_PARTM | MLTDRQLLILQVIIDDFIRSGQPVGSRALSKKHEISLSSATIRNEMADLEELGYIEKTHASSGRVPSEKGYRYYVDHLLSPQRLTQEDIQKIKSIFAERIYDLEKVVQKSAQILSDLTNYTSIALGPAVKDNKLKRIQIIPLNKQTAVAIIVTDTGHVKNHVITVPASVDPSDLEKMVNILNERLIGVPLIDLKDKIYKEVADVLRMHIHNYDSMLKTIADTLDIPQEEKMFFAGKTNMLNQPEFSDIQKVRSLMKMIEQEKDFYRLLRKHNRKGIQVTIGRENQLSGMENCSLITATYSIGKEQLGTIAILGPTRMEYSRVITILNRVASDLSTVLTKWYQNN |
| 3701 | sp|B7IYG9|HRCA\_BACC2 | MLTERQLLILQTIIDDFIGSAQPVGSRTLAKKDEITFSSATIRNEMADLEELGFIEKTHSSSGRVPSEKGYRFYVDHLLAPQNLPNAEIVQIKDLFAERIFEAEKIAQQSAQILSELTNYTAIVLGPKLSTNKLKNVQIVPLDRQTAVAIIVTDTGHVQSKTITVPESVDLSDLEKMVNVLNEKLSGVPMEELHNKIFKEIVTVLRGYVHNYDSAIRMLDGTFQVPLSEKIYFGGKANMLSQPEFHDIQKVRSLLTMIDNEAEFYDILRHKQVGIQVKIGRENTSTAMEDCSLISATYSIGEEQLGTIAILGPTRMQYSRVISLLQLFTRQFTDGLKK |
| 3702 | sp|Q0BI25|HRCA\_BURCM | MLDPRARTLLKTLIERYIADGQPVGSRTLSRYSGLELSPATIRNVMSDLEELGLVSSPHTSAGRVPTPRGYRLFVDTMLTVETPIDAEAVARQVQHTLQAGEPQQRVVAAAASVLSNLSQFAGVVLTPRRSHVFKQIEFMRLSDKRILLIIVTPEGDVQNRMLATPRDYSPSQLTEASNYINAHFAGLSFDEVRRRLRDEIDQLRGDMTTLMHAAVTASTEVPDTEDTVLISGERNLLEVADLSSDMARLRKLFDVFDQKTGLLQLLDVSSHAQGVQIFIGGESTLVPIEEMSVVTAPYEVNGQIVGTLGVIGPTRMAYNRVIPIVDITARLLSLTLSQQ |
| 3703 | sp|P0CAV3|HRCA\_CAUVC | MTQLFPGPIVRTPGLAELDARARDIFRRVVESYLETGEPVGSRTISKGGVALSPASIRNTMQDLAQLGLLDAPHTSAGRMPTHAGLRMFVDGFLEVGDVAEQEKRAIEARLAVKGRSFEEALAEASSILSGLAGGAGIVVTPVREGGVKHVEFVPLGGGQVLAVMVFEDGQVENRLMRQAPGVTPSALQEASNFLNARLRGRTLTEARTEMGGELDAARRQLNETAARLVEDGLAAWSGGEGDARSLIVRGQANLLADARAREDIDRVRQLFDDLSRRAQLIGLLDDVRDAEGVRIYIGAETRLFSLSGSSVIAAPYMTGRQKVLGAIGVIGPARLNYARVIPLVDYTARVLGRMMDG |
| 3704 | sp|P64397|HRCA\_BRUSU | MMRPPEHQLLSSLDQRSRDIFRLIVETYLNDGDPVGSRNLSRLLPHTLSPATIRNVMSDLEHLGLIYAPHISAGRLPTQIGLRFFVDAFLEVGDLPPEERSSIEAQVRAAGTSNSVESVLTEASQVLSGLSRGAGLVLTNKTDVALKHIEFVRLEPMRALAVLVMQNGDVENRVIDLPAGISTSQLIEASNFLNAHIHGHTLSEAKSELRKLSEETRRELDQLSQELVAKGLAVWSGAGADQPARLIVRGRANLLENVHAQEDIERLRHLFDDLETKDGMVQLLDLAEAGSGVRIFIGSENKLFSLSGSSLVVAPYRDSEQRVIGALGVIGPTRLNYARIVPMVDYTAQIVSRLLR |
| 3705 | sp|B1YTJ4|HRCA\_BURA4 | MLDPRARTLLKTLIERYIADGQPVGSRTLSRYSGLELSPATIRNVMSDLEELGLVSSPHTSAGRVPTPRGYRLFVDTMLTVETPIDAEAVARQVQHTLQAGEPQQRVVAAAASVLSNLSQFAGVVLTPRRSHVFKQIEFMRLSDKRILLIIVTPEGDVQNRMLATPRDYSPSQLTEASNYINAHFAGLSFDEVRRRLRDEIDQLRGDMTTLMHAAVTASTEVPDTEDTVLISGERNLLEVADLSSDMARLRKLFDVFDQKTGLLQLLDVSSHAQGVQIFIGGESTLVPIEEMSVVTAPYEVNGQIVGTLGVIGPTRMAYNRVIPIVDITARLLSLTLSQQ |
| 3706 | sp|Q551F8|HSPG3\_DICDI | MTTLFDILNTLNNNNNNNNNYAGCKRQHSINKRVDIIPSMDVTLTNDKLIIETELTGVSKNDIDINIKDSILIIQGEKKKSIIKHQQQQQHQQQQQQQQQQQQQQQQQQQQQQQQQQQQQQQLENSNKENDEPSIEEFEEDVKSKSELNKTTLNTTENKDEDKTTQNISKKFISERSFGNFKRYLNLSEILYQLDLNSINTQFENGLLTITIKKKFDSSNTIKININ |
| 3707 | sp|Q3SJW8|HTPG\_THIDA | MSATSSKETLGFQAEVKQLLQLMIHSLYSNKDIFLRELISNASDAADKLRFEALSDAALFENDPELKIRIAFDRDARTLTISDNGIGMSRQEVIDHIGTIAKSGTREFFSQLSGDQKKDAALIGQFGVGFYSAFIVADRVTLTTRRAGLTAEHGVRWESEGAGDYTLETVEKPQRGTEIVLHLREGEDEFLSDWKIKSVIRTYSDHITLPIVMKKTEWKDGVETPTDEDETVNKASALWARPKKDISDDEYNEFYKHVAHDFEPPLAWSHNRVEGKQEYISLLYVPSHAPFDLYDREKRHGIKLYVRRVFIMDDAEQLMPQYLRFVRGVIDSADLPLNVSREILQSSRDIDAIKNGSVKKVLGMLEDLAENQPEKYVEFWKEFGKVMKEGPGEDFANKEKIAGLLRFASTHTDTDAQVVSLKDYVGRMKEGQTAIYYITADSFAAAQHSPHLEIFRKKGIEVLLLSDRVDEWLTGNLHEFDGKPLKSVAKGGLDLGELEDEAEKTAQKEAEESMKPLVERIKAMLGERVKDVRVTHRLTDSPACLVTGEGDMSANLERLLKAAGQAAPTVKPTLEINPSHALVTRLDSESDEDRFKDWANLLFEQALLAEGGQLDDPASFVRRLNGLLAMLPG |
| 3708 | sp|B7MGA8|IBPA\_ECO45 | MRNFDLSPLYRSAIGFDRLFNHLENNQSQSNGGYPPYNVELVDENHYRIAIAVAGFAESELEITAQDNLLVVKGAHADEQKERTYLYQGIAERNFERKFQLAENIHVRGANLVNGLLYIDLERVIPEAKKPRRIEIN |
| 3709 | sp|B5YX93|IBPA\_ECO5E | MRNFDLSPLYRSAIGFDRLFNHLENNQSQSNGGYPPYNVELVDENHYRIAIAVAGFAESELEITAQDNLLVVKGAHADEQKERTYLYQGIAERNFERKFQLAENIHVRGANLVNGLLYIDLERVIPEAKKPRRIEIN |
| 3710 | sp|Q5PKS6|IBPB\_SALPA | MRNYDLSPLLRQWIGFDKLANALQNSGESQSFPPYNIEKSDDNHYRITLALAGFRQEDLDIQLEGTRLTVKGTPEQPENEPKWLHQGLVMQPFSLSFTLAENMEVSGATFTNGLLHIDLTRNEPETIAPQRIAINERSALNS |
| 3711 | sp|B2K7E6|IBPB\_YERPB | MRNYDLSPLLRQWIGFDKLASTMQGGQEPQGFPPYNIEKTDDNHYRISLALAGFKQSELDIEVEGPRLTVRGKPTPVEKQVEYLHQGLVRKEFSLTFTLAEHLNVDNAQFENGLLHIDLLRQVPEALQPQRIAIGSATPQERQVLESPEAPDQQ |
| 3712 | sp|Q8Z9V6|IBPB\_YERPE | MRNYDLSPLLRQWIGFDKLASTMQGGQEPQGFPPYNIEKTDDNHYRISLALAGFKQSELDIEVEGPRLTVRGKPTPVEKQVEYLHQGLVRKEFSLTFTLAEHLNVDNAQFENGLLHIDLLRQVPEALQPQRIAIGSATPQERQVLESPEAPDQQ |
| 3713 | sp|Q3YWC5|IBPA\_SHISS | MRNFDLSPLYRSAIGFDRLFNHLENNQSQSNGGYPPYNVELVDENHYRIAIAVAGFAESELEITAQDNLLVVKGAHADEQKERTYLYQGIAERNFERKFQLAENIHVRGANLVNGLLYIDLERVIPEAKKPRRIEIN |
| 3714 | sp|B5BIJ2|IBPA\_SALPK | MRNFDLSPLYRSAIGFDRLFNLLENNQSQSNGGYPPYNVELVDENHYRIAIAVAGFAESELEITAQDNLLVVKGAHADEQKERTYLYQGIAERNFERKFQLAENIHVRGANLVNGLLYIELERVIPEANKPRRIEIN |
| 3715 | sp|Q8ZL03|IBPB\_SALTY | MRNYDLSPLLRQWIGFDKLANALQNSGESQSFPPYNIEKSDDNHYRITLALAGFRQEDLDIQLEGTRLTVKGTPEQPENEPKWLHQGLVMQPFSLSFTLAENMEVSGATFTNGLLHIDLTRNEPETIAPQRIAINERSALNS |
| 3716 | sp|Q8LPJ5|ICDHP\_ARATH | MLNKLTHGVFTYRASLTAMLSSSTSAGLSSSFVSSRFLSSGIFSSGASRNRVTFPVQFHRASAVRCFASSGGSDRIQVQNPIVEMDGDEMTRVIWSMIKEKLILPYLDLDIKYFDLGILNRDATDDKVTVESAEAALKYNVAIKCATITPDEGRVKEFGLKSMWRSPNGTIRNILDGTVFREPIMCSNIPRLVPGWEKPICIGRHAFGDQYRATDTVIKGPGKLKMVFVPEDGNAPVELDVYDFKGPGVALAMYNVDESIRAFAESSMAMALTKKWPLYLSTKNTILKKYDGRFKDIFQEVYEANWKQKFEEHSIWYEHRLIDDMVAYAVKSEGGYVWACKNYDGDVQSDLLAQGFGSLGLMTSVLLSADGKTLESEAAHGTVTRHFRLHQKGQETSTNSIASIFAWTRGLEHRAKLDKNEKLMDFVKKLESSCVNTVETGKMTKDLALLIHGPKVSRDLFLNTEEFIDAVASKLKTQFKELPLV |
| 3717 | sp|O89113|IER5\_MOUSE | MEFKLEAHRIVSISLGKIYNSRVQRGGIKLHKNLLVSLVLRSARQVYLSDPCPGLYLAGPAGTPAVPPPQQPGEPVAGPPSGWGEPPPPVARAAWPEPEPQPQPQPQRPSVCHTPGAGSSEPVAAVAGSGEALRGGEEDSAAAAWGRVERPRAASSGGGSDACPEGPRAVRRPCGCPPAVEERSSEDGSPAPPAPCPRKRGAAGVGGGRASCSAPGSTPLKKPRRNSEEQPVTGEDDTDEEMETGNVANLISIFGSSFSGLLRKSPAGGREEEEAEEGGPEAAEPGQICCDKPVLRDMSPWSTAIVAF |
| 3718 | sp|A7ZVM4|IRAD\_ECO24 | MMRQSLQAVLPEISGNKTSPLRKSVCSDLLTLFNSPHSALPSLLVSGMPEWQVHNPSDKHLQSWYCRQLRSALLFHEPRIAALQVNLKEAYCHTLAISLEIMLYHDDESLTFDLVWDNGGWRSATLENVS |
| 3719 | sp|Q325L6|IRAP\_SHIBS | MKNLIAELLLKLAQKEEESKELCAQVEALEIIVTAMLRNMAQNDQQRLIEQVEGALYEVKPDASIPDDDTELLRNYVKKLLKHPRQ |
| 3720 | sp|B5BDF0|IRAP\_SALPK | MKNLIAELLLKLAQKEEESKELVAQVEALEIIVTAMLRNMAQNEQEMLIRQVEGALEGVKPDASVPDHDTELLRQYVKKLLRHPRH |
| 3721 | sp|P18654|KS6A3\_MOUSE | MPLAQLADPWQKMAVESPSDSAENGQQIMDEPMGEEEINPQTEEGSIKEIAITHHVKEGHEKADPSQFELLKVLGQGSFGKVFLVKKISGSDARQLYAMKVLKKATLKVRDRVRTKMERDILVEVNHPFIVKLHYAFQTEGKLYLILDFLRGGDLFTRLSKEVMFTEEDVKFYLAELALALDHLHSLGIIYRDLKPENILLDEEGHIKLTDFGLSKESIDHEKKAYSFCGTVEYMAPEVVNRRGHTQSADWWSFGVLMFEMLTGTLPFQGKDRKETMTMILKAKLGMPQFLSPEAQSLLRMLFKRNPANRLGAGPDGVEEIKRHSFFSTIDWNKLYRREIHPPFKPATGRPEDTFYFDPEFTAKTPKDSPGIPPSANAHQLFRGFSFVAITSDDESQAMQTVGVHSIVQQLHRNSIQFTDGYEVKEDIGVGSYSVCKRCIHKATNMEFAVKIIDKSKRDPTEEIEILLRYGQHPNIITLKDVYDDGKYVYVVTELMKGGELLDKILRQKFFSEREASAVLFTITKTVEYLHAQGVVHRDLKPSNILYVDESGNPESIRICDFGFAKQLRAENGLLMTPCYTANFVAPEVLKRQGYDAACDIWSLGVLLYTMLTGYTPFANGPDDTPEEILARIGSGKFSLSGGYWNSVSDTAKDLVSKMLHVDPHQRLTAALVLRHPWIVHWDQLPQYQLNRQDAPHLVKGAMAATYSALNRNQSPVLEPVGRSTLAQRRGIKKITSTAL |
| 3722 | sp|Q8EV77|LON\_MYCPE | MNNKKNEKTTNNKEIANVLVTRGIVFYPNTKIRIEIGREKSIAAINDSKEKKQNMIVVSQENPSIDSPSKNEIFTVGTLCSFEIDNKHPDGSYSIIFTGIKRVKINKLSEKASDGEIKTKFFYADYSEIEEDTKLSKSNEEAIKDLHAKFENELNNLTFFPKKDLALSKENRHTIVDWLPIALKFSLEEKQQLLEEPSLSKRIEKILSFTIDERVSQKIDSEISKKINTNLSKQQKEFYLRERVRAIKEELGDISSKEDDAESIRDRVRNNPYPEHIKKRILSEVNKLESSSNSNEYSMSKTYIDWLIDLPYWQKTDDVDSLADVENVLNNNHYGLEKVKERIIEYLAVRMKSKSAKGSIICLVGPPGVGKTSLAQSIAEALKKKFVKVSLGGMRDEAELKGHRKTYIGAMPGRIIKAMSKAGVVNPVFLLDEIDKLGSDHKGDPASAMLDILDPEQNNRFSDNYIEEDYDLSNVLFIATANYEENIPEPLHDRLEIIRLSSYTENEKLSIAKNYLVKKILVESALKKDELKFTDDGLSYIIKRYTREAGVREVERAIRQIARKFVVRQQKEKLTSQTIGVEEVKYYLKKEIYDYTKKDKEYMPGVVNGMAYTTAGGDLLPIEATFAPGKGKIEITGNLKETMKESVNVALGYVKTNAVKFGIDPKIFGEIDLHVHVPSGGIPKDGPSAGIALTTAILSALKNVKIPSNVAMTGEITLRGRVLIIGGVKEKTISAYRGGANDIFMPKEDERYLDDVPEEVRSKIKITLVDTYDDVYNRLFK |
| 3723 | sp|A4XJL4|LON\_CALS8 | MMIAVTKRTIPVIPLRGLVVFPYMMLHFDVGRQISLKALEEAMNSDQQVLLLAQKDPKQEEPSPEDLYQYGTVAKIKQMLKLPSETSRILVEGLSRAKVIGYVSVDPYFLVEVEEYKEKGGNLDDPELEALIRNVVSAFEEYARLTSRIPPDAILSVTTIQNPGQLADVIAANVIVKLEDKQLLLEQVDLKERLTKLYELILREKEIIEIERKITIKVKKQIDKMQKEYYLREQLKAIQSELGEKDSLFSEAQEYREQVQKLGLSNENLQKVYKEIDRLEKLPPNSPEIGVIRTYLEWIIDLPWNVKSEEKIDINVVKNVLDEDHYGLTKVKERILEYIAVRKLKNNLKGPILCLVGPPGVGKTSIAKSIARALNRNYVRISLGGLRDEAEIRGHRKTYVGAMPGRIIYALRQAKTKNPLILLDEIDKMSQDFRGDPASALLEVLDSEQNYAFRDHYVEIPFDLSEVMFIATANTLETIPRPLLDRLEVIEITGYTEEEKVEIAKRYLFPKQIEQNGLKKSQIRYDEAVIRDIISFYTRESGVRNLEREIARLCRRVAKEILEENKKMVRITTRNLEKYLGVRKYRRDELIEEDRIGIVTGLAWTPFGGETLSVEALVMPGSGKLELTGQLGDVMKESAKAAVSIIRARAKELGIDENFYKEYDIHIHVPEGAIPKDGPSAGVTMATAMVSALSKKPVRHDVAMTGEITLSGRVLPIGGVKEKILAAKRVGIKNVILPYENKKDVDELEDYVKKDMNFVFVKAIDEVFKIAIKE |
| 3724 | sp|P40849|MFM3\_SCHPO | MDSMANTVSSSVVNTGNKPSETLNKTVKNYTPKVPYMCVIA |
| 3725 | sp|P55145|MANF\_HUMAN | MRRMWATQGLAVALALSVLPGSRALRPGDCEVCISYLGRFYQDLKDRDVTFSPATIENELIKFCREARGKENRLCYYIGATDDAATKIINEVSKPLAHHIPVEKICEKLKKKDSQICELKYDKQIDLSTVDLKKLRVKELKKILDDWGETCKGCAEKSDYIRKINELMPKYAPKAASARTDL |
| 3726 | sp|Q15759|MK11\_HUMAN | MSGPRAGFYRQELNKTVWEVPQRLQGLRPVGSGAYGSVCSAYDARLRQKVAVKKLSRPFQSLIHARRTYRELRLLKHLKHENVIGLLDVFTPATSIEDFSEVYLVTTLMGADLNNIVKCQALSDEHVQFLVYQLLRGLKYIHSAGIIHRDLKPSNVAVNEDCELRILDFGLARQADEEMTGYVATRWYRAPEIMLNWMHYNQTVDIWSVGCIMAELLQGKALFPGSDYIDQLKRIMEVVGTPSPEVLAKISSEHARTYIQSLPPMPQKDLSSIFRGANPLAIDLLGRMLVLDSDQRVSAAEALAHAYFSQYHDPEDEPEAEPYDESVEAKERTLEEWKELTYQEVLSFKPPEPPKPPGSLEIEQ |
| 3727 | sp|P47812|MK14\_XENLA | MSSNQSYVFYRQELNKTLWEVPDRYQNLTPVGSGAYGSVCSSFDTRTALRIAVKKLSRPFQSIIHAKRTYRELRLLKHMKHENVIGLLDVFSPAKSFEEFNDVYLVTHLMGADLNNIVKCQKLTDDHVQFLIYQILRGLKYIHSAGIIHRDLKPSNLAVNEDCELKILDFGLARHTDEEMTGYVATRWYRAPEIMLNWMHYNQTVDIWSVGCIMAELLTGRTLFPGTDHIDQLKLILRLVGTPEPELLQKISSEAARNYIQSLPYMPKMNFEDVFLGANPQAVDLLEKMLVLDTDKRITAAEALAHSYFAQYHDPDDEPIAEPYDQSFESRELDIEEWKRLTYEEVTCFVPPPLDSEEMES |
| 3728 | sp|Q10MB4|MYB2\_ORYSJ | MDMAHERDASSEEEVMGGDLRRGPWTVEEDLLLVNYIAAHGEGRWNSLARSAGLKRTGKSCRLRWLNYLRPDLRRGNITPQEQLLILELHSRWGNRWSKIAQHLPGRTDNEIKNYWRTRVQKHAKQLKCDVNSQQFKDVMRYLWMPRLVERIQAAAAGQQQQQEGGTDTPPLSWQHGGSDGLYESPELPAPDASCWPAEYCAAAGGAQSGGTPAPELSSTTAGSSSLSTDSGAGAQPSWPTQADGAEWFTTACDASSATGGVAMRDTELELAQPPCQGGQTWTTSESSLPGLTFPDLAVADFEIGGFDVDSFWTSMEDDQLWCPTQAAV |
| 3729 | sp|Q9LXL9|NAC60\_ARATH | MAAAPPIEPAVTTTFPGFKFSPTDIELISYYLKRKMDGLERSVEIIPEVEIYNFEPWDLPDKSIVKSDSEWFFFCARGKKYPHGSQNRRATKIGYWKATGKERNVKSGSEVIGTKRTLVFHIGRAPKGGRTEWLMHEYCMIGVSLDALVICRLRRNTEFQGSTIQKPPQPSLPLDKHVNLRNEAISESIYGWETMVDFYLSSESGQELLSEIAESSQSSQNPQVPSEEDFYADILRDEIVKLDDPAVSGNTLINVPRLQTESNTTRVLPLPDMVDKQMQSLLQKLPLQNDTGEENNISMSNCFIGIYSIKSINRARWDVVVWLLVMIAVLVFYLV |
| 3730 | sp|Q9ZTC3|MYB90\_ARATH | MEGSSKGLRKGAWTAEEDSLLRLCIDKYGEGKWHQVPLRAGLNRCRKSCRLRWLNYLKPSIKRGRLSNDEVDLLLRLHKLLGNRWSLIAGRLPGRTANDVKNYWNTHLSKKHESSCCKSKMKKKNIISPPTTPVQKIGVFKPRPRSFSVNNGCSHLNGLPEVDLIPSCLGLKKNNVCENSITCNKDDEKDDFVNNLMNGDNMWLENLLGENQEADAIVPEATTAEHGATLAFDVEQLWSLFDGETVELD |
| 3731 | sp|Q9VNM1|NPFR\_DROME | MIISMNQTEPAQLADGEHLSGYASSSNSVRYLDDRHPLDYLDLGTVHALNTTAINTSDLNETGSRPLDPVLIDRFLSNRAVDSPWYHMLISMYGVLIVFGALGNTLVVIAVIRKPIMRTARNLFILNLAISDLLLCLVTMPLTLMEILSKYWPYGSCSILCKTIAMLQALCIFVSTISITAIAFDRYQVIVYPTRDSLQFVGAVTILAGIWALALLLASPLFVYKELINTDTPALLQQIGLQDTIPYCIEDWPSRNGRFYYSIFSLCVQYLVPILIVSVAYFGIYNKLKSRITVVAVQASSAQRKVERGRRMKRTNCLLISIAIIFGVSWLPLNFFNLYADMERSPVTQSMLVRYAICHMIGMSSACSNPLLYGWLNDNFRKEFQELLCRCSDTNVALNGHTTGCNVQAAARRRRKLGAELSKGELKLLGPGGAQSGTAGGEGGLAATDFMTGHHEGGLRSAITESVALTDHNPVPSEVTKLMPR |
| 3732 | sp|A4FVP6|NAC16\_ARATH | MVDSSRDSCFKAGKFSAPGFRFHPTDEELVVYYLKRKICCKKLRVNAIGVVDVYKVDPSELPGLSMLKTGDRQWFFFTPRNRKYPNAARSSRGTATGYWKATGKDRVIEYNSRSVGLKKTLVFYRGRAPNGERTDWVMHEYTMDEEELGRCKNAKEYYALYKLYKKSGAGPKNGEQYGAPFQEEEWVDSDSEDADSVAVPDYPVVRYENGPCVDDTKFCNPVKLQLEDIEKLLNEIPDAPGVNQRQFDEFVGVPQGNSAEVIQSTLLNNSSGEYIDPRTNGMFLPNGQLYNRDSSFQSHLNSFEATSGMAPLLDNEKEEYIEMNDLLIPELGASSTEKSTEFLNHGEFGDVNEYDQLFNDISVFQGTSTDLSCLSNFTNNTSGQRQQLLYEQFQYQTPENQLNNYMHPSTTLNQFTDNMWFKDDQAALYVQPPQSSSGAFTSQSTGVMPESMNPTMSVNPQYKEGQNGGGTRSQFSSALWELLESIPSTPASACEGPLNQTFVRMSSFSRIRFNGTSVTSRKVTVAKKRISNRGFLLLSIMGALCAIFWVFKATVGVMGRPLLS |
| 3733 | sp|O65660|PLAT1\_ARATH | MARRDVLLPFLLLLATVSAVAFAEDDPDCVYTFYLRTGSIWKAGTDSIISARIYDKDGDYIGIKNLQAWAGLMGPDYNYFERGNLDIFSGRAPCLPSPICALNLTSDGSGDHHGWYVNYVEITTAGVHAQCSTQDFEIEQWLATDTSPYELTAVRNNCPVKLRDSVSRVGSEIRKKLSWVV |
| 3734 | sp|Q48761|RADA\_LISMO | MAKAKRTTKFVCQACGYESAKWMGKCPNCNEWNQMVEALEPSKKSRSAFNHTGEPSKATPITQIASETEKRVETNMPELNRVLGGGVVPGSMVLVGGDPGIGKSTLLLQVSAQLTLTNKKVLYISGEESIKQTKLRAERLQVSGDNLYVYAETNLEAVQETIDFVKPDFVVIDSIQTVYHSDVTSAAGSVSQVRECTATLMRIAKMQNIAIFIVGHVTKEGAIAGPRLLEHMVDTVLYFEGERHHAYRILRAVKNRFGSTNEMGIFEMRDVGLVEVANPSEVFLEERLEGASGSTVVASMEGTRPVLVEIQALVSPTMFGNAKRMATGIDYNKVSLIMAVLEKRVGLMLQNQDAYLKAAGGVKLDEPAVDLAVAVSVASSYRDKPTRSTDCFIGELGLTGEIRRVARIEQRVQEAAKLGFKRIFIPKNNEGNWKIPKDVQVVGVETIGEALKKALPD |
| 3735 | sp|P98179|RBM3\_HUMAN | MSSEEGKLFVGGLNFNTDEQALEDHFSSFGPISEVVVVKDRETQRSRGFGFITFTNPEHASVAMRAMNGESLDGRQIRVDHAGKSARGTRGGGFGAHGRGRSYSRGGGDQGYGSGRYYDSRPGGYGYGYGRSRDYNGRNQGGYDRYSGGNYRDNYDN |
| 3736 | sp|O89086|RBM3\_MOUSE | MSSEEGKLFVGGLNFNTDEQALEDHFSSFGPISEVVVVKDRETQRSRGFGFITFTNPEHASDAMRAMNGESLDGRQIRVDHAGKSARGSRGGAFGGRGRSYSRGGGDQGYGSGRYDSRPGGYGYGYGRSRDYSGSQGGYDRYSGGNYRDNYDN |
| 3737 | sp|P75687|RCLB\_ECOLI | MFKKSVLFATLLSGVMAFSTNADDKIILKHISVSSVSASPTVLEDTIADIARKYNASSWKVTSMRIDNNSTATAVLYK |
| 3738 | sp|Q94A52|RH2\_ARATH | MATANPGRGGGRRGGGAMDDDKLVFETTDGIEPITSFNDMGIKEDVLRGVYEYGFEKPSAIQQRAVMPILQGRDVIAQAQSGTGKTSMIALSVCQVVDTSSREVQALILSPTRELATQTEKTIQAIGLHANIQAHACIGGNSVGEDIRKLEHGVHVVSGTPGRVCDMIKRRSLRTRAIKLLILDESDEMLSRGFKDQIYDVYRYLPPDLQVCLVSATLPHEILEMTSKFMTEPVKILVKRDELTLEGIKQFFVAVEKEEWKFDTLCDLYDTLTITQAVIFCNTKRKVDYLSEKMRSHNFTVSSMHGDMPQKERDAIMNEFRSGDSRVLITTDVWARGIDVQQVSLVINYDLPNNRELYIHRIGRSGRFGRKGVAINFVKSDDIKILRDIEQYYSTQIDEMPMNVADLI |
| 3739 | sp|A0QTP2|SIGH\_MYCS2 | MTDVDRVEPETPPEREETDAELTARFERDAIPLLDQLYGGALRMTRNPADAEDLLQETMVKAYAGFRSFREGTNLKAWLYRILTNTYINSYRKKQRQPSEYPTDEITDWQLASNAEHSSTGLRSAEVEALEALPDTEIKAALQALPEEFRMAVYYADVEGFPYKEIAEIMETPIGTVMSRLHRGRRQLRDLLAGVARDRGFIRGPQLGEPEEVTS |
| 3740 | sp|E6RET3|SHO1\_CRYGW | MFGGHSFDVGYVMRHPVFLVTFIIAIPSWIIAFAGQCAAEAKYSSSNGRTPVAGTLWFNIWLQLMLTVSLAISSDDLALHRFQLSIFLAIATALAVGGVEFIFQTPGAYIAIGVGWLLLTMVNLVWIVYLTSEEDTFLYNVLNSGGNGGLSSHNRRIGTSVQRRDETPGYGGGEMGLGNSMGGMPRGISSNTINSGGYGGGYAPASMEGTPQKVTSVTRNEYGHTGVQSPGIDESVPRPQRAKALYAYSASPDDPNEVSFMKGEILEVVDATGKWFQVRTPAGVTGIAPSNYLVLL |
| 3741 | sp|Q6BVC2|SHO1\_DEBHA | MSFSISNFIGDPFAISTLSFGLIAWIISIAGAGASNQDKFPHFSWWGIMYQLVIMVVITVLYLYNTIELYKFTLVGLLSIAFVYSTNSTNHLIYKTGDSGMLCCAAGCILLSMLNLIWILYFGGHPESPTNQFIDSFSLKTHSHNHGHLPSADNKAADGDIDDEVEYKRYSSSQGNTQFQDNNLRQSQLTTNNKSVNTPYMSSSQLNGLENFSSSDVHQSRDLTSNKRQTVYNDTNSVNDTGNVFRYKAKALYSYDANPEDINEISFAKDELLEVDDIDGKWWQAKRSNGQVGICPSNYVKLMD |
| 3742 | sp|P40073|SHO1\_YEAST | MSISSKIRPTPRKPSRMATDHSFKMKKFYADPFAISSISLAIVSWVIAIGGSISSASTNESFPRFTWWGIVYQFLIICSLMLFYCFDLVDHYRIFITTSIAVAFVYNTNSATNLVYADGPKKAAASAGVILLSIINLIWILYYGGDNASPTNRWIDSFSIKGIRPSPLENSLHRARRRGNRNTTPYQNNVYNDAIRDSGYATQFDGYPQQQPSHTNYVSSTALAGFENTQPNTSEAVNLHLNTLQQRINSASNAKETNDNSNNQTNTNIGNTFDTDFSNGNTETTMGDTLGLYSDIGDDNFIYKAKALYPYDADDDDAYEISFEQNEILQVSDIEGRWWKARRANGETGIIPSNYVQLIDGPEEMHR |
| 3743 | sp|Q55026|SRPB\_SYNE7 | MNVIFLPQGDWLGLSFRLLLAMLVGAVIGLNRQRGGRPAGMRTFTLVAMGSALFVMVPIQAEGDSSFAAINALSRTVQGVAAGVGFLGAGLILQRAPKTKRSGRPRVSGLTTAATIWITAALGAVIGCGLWQLGLIGTFFTLLTLSGFKRLQRIAWLRQSWERLIAWEAKTLPPDAEEEDDD |
| 3744 | sp|Q7XC57|MYBS3\_ORYSJ | MTRRCSHCSHNGHNSRTCPNRGVKIFGVRLTDGSIRKSASMGNLSLLSSAAGSTSGGASPADGPDAAPTAADGYASDDFVQGSSSATRDRKKGVPWTEEEHRRFLLGLQKLGKGDWRGISRNFVVSRTPTQVASHAQKYFIRQSNMTRRKRRSSLFDMVPDESMDLPPLPGGQEPETQVLNQPALPPPREEEEVDSMESDTSAVAESSSASAIMPDNLQSTYPVIVPAYFSPFLQFSVPFWQNQKDEDGPVQETHEIVKPVPVHSKSPINVDELVGMSKLSIGESNQETVSTSLSLNLVGGQNRQSAFHANPPTRAQA |
| 3745 | sp|Q9LTC4|MYB15\_ARATH | MGRAPCCEKMGLKRGPWTPEEDQILVSFILNHGHSNWRALPKQAGLLRCGKSCRLRWMNYLKPDIKRGNFTKEEEDAIISLHQILGNRWSAIAAKLPGRTDNEIKNVWHTHLKKRLEDYQPAKPKTSNKKKGTKPKSESVITSSNSTRSESELADSSNPSGESLFSTSPSTSEVSSMTLISHDGYSNEINMDNKPGDISTIDQECVSFETFGADIDESFWKETLYSQDEHNYVSNDLEVAGLVEIQQEFQNLGSANNEMIFDSEMDFWFDVLARTGGEQDLLAGL |
| 3746 | sp|P64453|ORTT\_ECOLI | MSLYQHMLVFYAVMAAIAFLITWFLSHDKKRIRFLSAFLVGATWPMSFPVALLFSLF |
| 3747 | sp|P0AGL5|RATA\_ECOLI | MILFVGFLLMEIVMPQISRTALVPYSAEQMYQLVNDVQSYPQFLPGCTGSRILESTPGQMTAAVDVSKAGISKTFTTRNQLTSNQSILMNLVDGPFKKLIGGWKFTPLSQEACRIEFHLDFEFTNKLIELAFGRVFKELAANMVQAFTVRAKEVYSAR |
| 3748 | sp|P42923|RL10\_BACSU | MSSAIETKKVVVEEIASKLKESKSTIIVDYRGLNVSEVTELRKQLREANVEFKVYKNTMTRRAVEQAELNGLNDFLTGPNAIAFSTEDVVAPAKVLNDFAKNHEALEIKAGVIEGKVSTVEEVKALAELPSREGLLSMLLSVLQAPVRNLALAAKAVAEQKEEQGA |
| 3749 | sp|Q9LVJ3|RSH2C\_ARATH | MVVATTIALYASPPSSVCSTPHQISCDLDLTSRSSSTSSSMASSPQKPIVGGLSSLFSSASVKSSSSSSCSYSTGVDEFSSLRYDRSDDLKDLSFSSSFGYSPAKFVNSFRRDHQSPISVLHGPVSCSCSPPMRMSRDRNLDGSFRLGASGLFNGFVRKALGSCVDYEFGSDSVLVDELTFPMEVDTIKPYARDLLRRAQLRHKIFNDESVIKAFYEAEKAHRGQMRASRDPYLQHCVETAMLLANIGANSTVVVAGLLHDTIDDSFMSYDYILRNFGAGVADLVEGVSKLSQLSKLARENNTACKTVEADRLHTMFLAMADARAVLIKLADRLHNMKTLYALSPVKQQRFAKETLEIFAPLANRLGISTWKVQLENLCFKHLYPNQHNEMSTMLEDSFDEAMITSAIEKLEQALKKAGISYHVLCGRHKSLYSIYSKMLKKKLTVDEIHDIHGLRLIVDNEGDCYKALGVVHSLWSEVPGKLKDYITHPKFNGYQSLHTVVMDNGTVPLEVQIRTQEMHLQAEFGFAAHWRYKEGGCKYSSFVLQMVEWARWVVTWHCEAMSKDRSSISSSDSIKPPCKFPSHSEDCPASYKPNSSQDGPVYVIVIENDKMSVQEFPASSTVSDLLSRAGPGSSRWSMYGIPAKEELRPRLNQIPVSDLKWKLKMGDVVELTPTIPDESLTEYREEIQRMYDRGLAFSRPGTMVGWGS |
| 3750 | sp|Q69LE0|SAP10\_ORYSJ | MAPGNEMQARNGGGAAMCAAGCGFFGSAATDGLCSKCYKQQQPQPRHLIGTAAGDSDKTSLKVVADLSTLVIKDNSGVGGEGTTVMAPPATVTKAKNRCKACRKKVGLLGFPCRCGGMFCGAHACAFDYKAAGREAIARHNPLVVAPKINKI |
| 3751 | sp|G8QM61|SIGF\_AZOOP | MQRINREESFRAKEERLKDLFVRGLSGNNAAYQTFLGELSSYLRAFLRKRLIRLPDEVEDLVQEALLAVHNQRHTYDPSQPLSAWVQAIARYKLVDLFRRRAIYEQRNDTLDDGMDLFSSADAEAAEARRDLNKLLADLPDHFRLPIMHTKLEGLSVREAADVSGMSESAIKVGVHRGLKALAAKIRGAL |
| 3752 | sp|Q5AVI2|SHO1\_EMENI | MAALRASNLLGDPFALATSSIAMLGWLIAFIASIAADVQDPYPSFQWWAIAYSFCCNVGVIVVFLTDTGLTYGVAVVGYLAASLVMNSISANSMFNSKSTSSFQAAGAGFILLCMVNIVWTFYFGSAPQAKHRGFIDSFALNKENQGSYGANRPMSSAYGARPETTTSRPQMYTSAQLNGFETSSPVSGYHGGAPGETRSPSQARFTSLGGPNASNPDTVGEIPPPTEYPYKAKAIYKYEANPEDANEIGFEKGEELEVSDVSGRWWQARKANGETGIAPSNYLILL |
| 3753 | sp|Q4WPF5|SEBA\_ASPFU | MDATYTMAQTPVQGQPSFAYYPTESQSRQQHFTSHPFEMQYYGQVSSYPQQQAQQQHSMPEQQPVYAAQPMLNMHQMATTNAFRGALSMTPIASPQPTHLKPTIIVQQDSPALMPLDTRFVSNDFYGFPSTPPLSTSGSTISSPPSSNGSLHTPINDCFFSFEKVEGVKEGCESDVHCELLANTDWSRSDSPPLTPVFIQPQSLTASQSSDLLSAQIPCPSLSPSPSPDSATFISHPQSILSAEPSGSDFCDPRQLTVESSVGAPAELPPLPTLSCNEEEPKVVLGSATVTLPVHEGLSPSFSSSSEDPLGSLPTFDSFSDLDSEDEFANKLVDFHPIGNTYFQGDKRQRLGTYLLDEDEFLSERSLEDLDDQEAFAQSGLPSVESTDFLAVEGDATQSTEEMSSKKRVTSRRSLKKASTSESSSDSLAKKTQASATSRSGHSDTTSTVQQSTASSRQNSTANTSNSESPAAPVSVNRRGRKQSLTDDPSKTFVCSLCSRRFRRQEHLKRHYRSLHTQDKPFECHECGKKFSRSDNLAQHARTHGGGSIVMGVIDTNSSNTQPAFDEPEPRALGLALYEAANAATSKSTTSESSDGTISDTSSVGGRPAKKRRRDDHV |
| 3754 | sp|P66832|SODM2\_STAAW | MAFKLPNLPYAYDALEPYIDQRTMEFHHDKHHNTYVTKLNATVEGTELEHQSLADMIANLDKVPEAMRMSVRNNGGGHFNHSLFWEILSPNSEEKGGVIDDIKAQWGTLDEFKNEFANKATTLFGSGWTWLVVNDGKLEIVTTPNQDNPLTEGKTPILLFDVWEHAYYLKYQNKRPDYMTAFWNIVNWKKVDELYQAAK |
| 3755 | sp|P0C0Q6|SODM\_STAES | MAFELPNLPYAYDALEPHIDKQTMEIHHDKHHNTYVTKLNSAVEGTDLEAKSIEEIVANLDSVPSNIQTAVRNNGGGHLNHSLFWELLSPNSEEKGEVVDKIKEQWGSLDEFKKEFADKAAARFGSGWAWLVVNNGQLEIVTTPNQDNPITEGKTPILGLDVWEHAYYLKYQNKRPDYINAFWNVVNWEKVNELYNATK |
| 3756 | sp|Q08788|SRFAD\_BACSU | MSQLFKSFDASEKTQLICFPFAGGYSASFRPLHAFLQGECEMLAAEPPGHGTNQTSAIEDLEELTDLYKQELNLRPDRPFVLFGHSMGGMITFRLAQKLEREGIFPQAVIISAIQPPHIQRKKVSHLPDDQFLDHIIQLGGMPAELVENKEVMSFFLPSFRSDYRALEQFELYDLAQIQSPVHVFNGLDDKKCIRDAEGWKKWAKDITFHQFDGGHMFLLSQTEEVAERIFAILNQHPIIQP |
| 3757 | sp|P45851|OXO2\_HORVU | MGYSKTLAVSLFAVLLLAPAVLASDPDPLQDFCVADLDGKAVSVNGHPCKPMSEAGDDFLFSSKLAKAGNTSTPNGSAVTELDVAEWPGTNTLGVSMNRVDFAPGGTNPPHVHPRATEIGIVMKGELLVGILGSLDSGNKLYSRVVRAGETFLIPRGLMHFQFNVGKTEASMVVSFNSQNPGIVFVPLTLFGSNPPIPTPVLTKALRVEAGVVELLKSKFAAGF |
| 3758 | sp|Q9M040|PDC4\_ARATH | MDTKIGAIDTCKPTTGDIGSPPSNAVATIQDSAPITTTSESTLGRHLSRRLVQAGVTDVFSVPGDFNLTLLDHLIAEPELNNIGCCNELNAGYAADGYARSRGVGACVVTFTVGGLSVLNAIAGAYSENLPVICIVGGPNSNDFGTNRILHHTIGLPDFSQELRCFQTVTCYQAVVNNLEDAHEQIDKAIATALKESKPVYISISCNLAATPHPTFARDPVPFDLTPRMSNTMGLEAAVEATLEFLNKAVKPVMVGGPKLRVAKASEAFLELADASGYPLAVMPSTKGLVPENHPHFIGTYWGAVSTPFCSEIVESADAYIFAGPIFNDYSSVGYSLLLKKEKAIIVHPDRVVVANGPTFGCVLMSDFFRELAKRVKRNETAYENYERIFVPEGKPLKCKPGEPLRVNAMFQHIQKMLSSETAVIAETGDSWFNCQKLKLPKGCGYEFQMQYGSIGWSVGATLGYAQATPEKRVLSFIGDGSFQVTAQDISTMIRNGQKAIIFLINNGGYTIEVEIHDGPYNVIKNWNYTGLVDAIHNGEGKCWTTKVRYEEELVEAIKTATTEKKDSLCFIEVIVHKDDTSKELLEWGSRVSAANGRPPNPQ |
| 3759 | sp|Q5E946|PARK7\_BOVIN | MASKRALVILAKGAEEMETVIPVDVMRRAGIKVTVAGLAGKDPVQCSRDVVICPDASLEDAKKEGPYDVVVLPGGNLGAQNLSESAAVKEILKEQEKRKGLIAAICAGPTALLAHEIGFGSKVTTHPLAKDKMMNGSHYSYSENRVEKDGLILTSRGPGTSFEFALKIVEVLVGKEVADQVKAPLVLKD |
| 3760 | sp|Q56119|PHOE\_SALTI | MNKSTLAIVVSIIASASVHAAEVYNKNGNKLDVYGKVKAMHYMSDYDSKDGDQSYVRFGFKGETQINDQLTGYGRWEAEFAGNKAESDSSQQKTRLAFAGLKLKDIGSFDYGRNLGALYDVEAWTDMFPEFGGDSSAQTDNFMTKRASGLATYRNTDFFGIVDGLDLTLQYQGKNEDRDVKKQNGDGFGTSVSYDFGGSDFAVSGAYTLSDRTREQNLQRRGTGDKAEAWATGVKYDANDIYIATFYSETRNMTPVSGGFANKTQNFEAVIQYQFDFGLRPSLGYVLSKGKDIEGVGSEDLVNYIDVGAIYYFNKNMSAFVDYKINQLDSDNTLGINDDDIVAIGLTYQF |
| 3761 | sp|P0A9K1|PHOH\_ECOLI | MVTSCTGHVLDNQRATTRGVFSSGSHLVTLHFQPHPFFSCVTDAVNGARSRFSAFYPKANYGLQGSQPSDVRAHNRAANGACDEYKQLKVLSMGRQKAVIKARREAKRVLRRDSRSHKQREEESVTSLVQMGGVEAIGMARDSRDTSPILARNEAQLHYLKAIESKQLIFATGEAGCGKTWISAAKAAEALIHKDVDRIIVTRPVLQADEDLGFLPGDIAEKFAPYFRPVYDVLVRRLGASFMQYCLRPEIGKVEIAPFAYMRGRTFENAVVILDEAQNVTAAQMKMFLTRLGENVTVIVNGDITQCDLPRGVCSGLSDALERFEEDEMVGIVRFGKEDCVRSALCQRTLHAYS |
| 3762 | sp|P48490|PP1\_PHAVU | MDKAVLDDVIRRLLEGKGGKQVQLSESEIRQLCVHARQIFLSQPILLELRAPMRVCGDIHGQYQDLLRLFEYGGYPPAANYLFLGDYVDRGKQSLETICLLLAYKIRYPDKIFLLRGNHEEAKINRIYGFYDECKRRFNVRLWKIFTDCFNCLPVSALIDDKILCMHGGLSPELESLDQIKEIQRPTEIPDSGLLCDLLWSDPDSSIEGWAESDRGVSCTFGPDVVAEFLDKNDLDLVCRGHQVVEDGYEFFAKRRLVTIFSAPNYGGEFDNAGALLSVDDSLVCSFEILKPADRASGSSSKMNFKKPPKMGKI |
| 3763 | sp|Q9SEI2|PS6AA\_ARATH | MATPMVEDTSSFEEDQLASMSTEDITRATRLLDNEIRILKEDAQRTNLECDSYKEKIKENQEKIKLNKQLPYLVGNIVEILEMNPEDDAEEDGANIDLDSQRKGKCVVLKTSTRQTIFLPVVGLVDPDSLKPGDLVGVNKDSYLILDTLPSEYDSRVKAMEVDEKPTEDYNDIGGLEKQIQELVEAIVLPMTHKERFEKLGVRPPKGVLLYGPPGTGKTLMARACAAQTNATFLKLAGPQLVQMFIGDGAKLVRDAFQLAKEKAPCIIFIDEIDAIGTKRFDSEVSGDREVQRTMLELLNQLDGFSSDERIKVIAATNRADILDPALMRSGRLDRKIEFPHPTEEARARILQIHSRKMNVHPDVNFEELARSTDDFNGAQLKAVCVEAGMLALRRDATEVNHEDFNEGIIQVQAKKKASLNYYA |
| 3764 | sp|Q6I5C3|PYL5\_ORYSJ | MVGLVGGGGWRVGDDAAGGGGGGAVAAGAAAAAEAEHMRRLHSHAPGEHQCSSALVKHIKAPVHLVWSLVRSFDQPQRYKPFVSRCVVRGGDLEIGSVREVNVKTGLPATTSTERLELLDDDEHILSVKFVGGDHRLRNYSSIVTVHPESIDGRPGTLVIESFVVDVPDGNTKDETCYFVEAVIKCNLTSLAEVSERLAVQSPTSPLEQ |
| 3765 | sp|Q9ZU51|RHA2B\_ARATH | MGLQGQLSDVSSDSIPLMLLALLATFFRHVRSLLLFPSSAPVVVVTSNLSVLADQLNLNRLFSYRYSDNAASDCIVCLSKLKTGEEVRKLDCRHVFHKQCLEGWLQHLNFNCPLCRSPLLPHHHQGHGSDASISAFPLRSTSTASSH |
| 3766 | sp|P0AGB5|RPOH\_ECO57 | MTDKMQSLALAPVGNLDSYIRAANAWPMLSADEERALAEKLHYHGDLEAAKTLILSHLRFVVHIARNYAGYGLPQADLIQEGNIGLMKAVRRFNPEVGVRLVSFAVHWIKAEIHEYVLRNWRIVKVATTKAQRKLFFNLRKTKQRLGWFNQDEVEMVARELGVTSKDVREMESRMAAQDMTFDLSSDDDSDSQPMAPVLYLQDKSSNFADGIEDDNWEEQAANRLTDAMQGLDERSQDIIRARWLDEDNKSTLQELADRYGVSAERVRQLEKNAMKKLRAAIEA |
| 3767 | sp|Q8CQ32|SCDA\_STAES | MITKEDIVADVVTDYPKSADIFRNAGIDFCCGGQESIASAVNHKPNIDLNSLLNKLNHIDNTEGNSTINPKFLNVESLIQYIQSAYHETLKEEFKNLTPYMTKLAKVHGPSHPYLLKLQDLYREFRDSMLDHIRKEDEEDFPKLIQYSQGQDVQNIKIILEDLINDHEDTGQLLNVMNQLTSDYQTPEEACGTWKLVYQRLQNIERQTHQHVHLENHVLFKKVS |
| 3768 | sp|Q53K16|SCL7\_ORYSJ | MAYMCADSGNLMAIAQQVIQQQQQQQQQQQRHHHHHHLPPPPPPQSMAPHHHQQKHHHHHQQMPAMPQAPPSSHGQIPGQLAYGGGAAWPAGEHFFADAFGASAGDAVFSDLAAAADFDSDGWMESLIGDAPFQDSDLERLIFTTPPPPVPSPPPTHAAATATATAATAAPRPEAAPALLPQPAAATPVACSSPSPSSADASCSAPILQSLLSCSRAAATDPGLAAAELASVRAAATDAGDPSERLAFYFADALSRRLACGTGAPPSAEPDARFASDELTLCYKTLNDACPYSKFAHLTANQAILEATGAATKIHIVDFGIVQGIQWAALLQALATRPEGKPTRIRITGVPSPLLGPQPAASLAATNTRLRDFAKLLGVDFEFVPLLRPVHELNKSDFLVEPDEAVAVNFMLQLYHLLGDSDELVRRVLRLAKSLSPAVVTLGEYEVSLNRAGFVDRFANALSYYRSLFESLDVAMTRDSPERVRVERWMFGERIQRAVGPEEGADRTERMAGSSEWQTLMEWCGFEPVPLSNYARSQADLLLWNYDSKYKYSLVELPPAFLSLAWEKRPLLTVSAWR |
| 3769 | sp|P13731|SERPH\_CHICK | MQIFLVLALCGLAAAVPSEDRKLSDKATTLADRSTTLAFNLYHAMAKDKNMENILLSPVVVASSLGLVSLGGKATTASQAKAVLSADKLNDDYVHSGLSELLNEVSNSTARNVTWKIGNRLYGPASINFADDFVKNSKKHYNYEHSKINFRDKRSALKSINEWAAQTTDGKLPEVTKDVEKTDGALIVNAMFFKPHWDEKFHHKMVDNRGFMVTRSYTVGVPMMHRTGLYNYYDDEAEKLQVVEMPLAHKLSSMIFIMPNHVEPLERVEKLLNREQLKTWASKMKKRSVAISLPKVVLEVSHDLQKHLADLGLTEAIDKTKADLSKISGKKDLYLSNVFHAAALEWDTDGNPYDADIYGREEMRNPKLFYADHPFIFMIKDSKTNSILFIGRLVRPKGDKMRDEL |
| 3770 | sp|A7TI28|SHO1\_VANPO | MIPSRANAKARRAGHHVRHSFGISNLVGDPFAISTISISMISWVITLGGSIASATDRESFPRFTWWGIAYQALLLFIMIVIYCYDLVDYYKGFISSGSGVAFIYNTNSATNLVYSNGARKAAASAGVILLSVINLIWVFYYGGDNASPTNRWIDSFSLRGIRPSAYEDALIRSLRRRSAVHSRNLQNAALERENLHLSTNLYNGVDQNQNYVSAVGLTGFENTNPNSTNSNFNSPYRDQQNDEVISMQIRNPTDTLKTSNENVNTFVTESSNGNTETTMGDTLGLYSEFGDESFPYTARALYSYQADDADGYEVSFEQGEILKVSDIEGRWWKSKKETGEVGIIPSNYVQLIEDDEGI |
| 3771 | sp|Q59VR1|SKO1\_CANAL | MSSDHKSKFDLELNPFERSFATKESSSVSLNELAAASNNDAISDVNSVATSGSSINNGSSSNKHNLHIPNISSVNQQQGVNGKLPGITPPLFTPGGRRLPPIGLSPGGTTSRQYSNSTNSGSLQSNTDTLGSNIWGGLPTNQTFQPQPQPQPQPQQQQQPQQQQQTQQPHNFNQFMSGMRKTGLTPNESNIRSGLTPGGLTNFGFGSNLVPGLSTPGALLNGPITPGLSSLLGITQTPSSLLVPTTSSFSQNNQSHLIQPAANTSVGPIPESTALGPHVNIPQANQLQQDQSSQALVGGLPPSQPQPQPQPVIAQQIHTIPENQSIAFDMTQPAVANAHLPESKPDLSETANLQRDLNPTADTTTNTTTATKKRKNDTAGGTNKKAKVAKGKKKEPKSKSKGKNNQEDDQNASNKPEDENVPGKENGNEENHKVEAESKEEHLQNGNETTTTKTNNTGNSSNGTTTTTTTKSKSKKNSNVSEDDKRKNFLERNRVAASKCRQRKKLLIQKMEEELEFYSNGYRELSAEVNELRGAILLLKEKHNIQDEIIDGLLSKPTTVPTNVTSIPSTIPTTLNPT |
| 3772 | sp|A7THE5|POG1\_VANPO | MGSSTTEPDVGTTSNIETTTTLQNKNVNEVDQNKKSEQSNPSFKEVVLKDIGLGEATDLENVSDDVFNNYLAIRLERERKEIELLKESNLEKLSVIIKNCIECNSFTDETMKRLINLVDNNYNNSVHFSPKSKRRKLESTSPPMSSSSVPNKETNNIQQSNSYQLRNNYDEEQENQKSQTQGSKSLLSRPNIYSFPPKQTQPASQQHVQLAAIVQRQSTLTTPLSSTYGSNSNNSMNTQLPLSDKSLRSNVQEKIVQQGSMSQRDIINGSNMSSQYSSQVYPPGYYQTRYGQQMVVVYPDSDSPQINQTSTIQHQQQLPHTYPPHYHQQQQLHQNQLVPQQHQQLQQQSISKHQLFGQKNPMSPQSHYLPNNESQNLGVINHRRSFSSGTYPVVNSRSKSPDRSMPLTVQKQMNFLIHTPKHPPPT |
| 3773 | sp|Q79VC4|PROP\_CORGL | MSPIRSKKKIKNEPRLTVDDVNVVPPKKIRPAIKGTVVGNFMEWYDFGIYGYLTVTMTAVFTQGLPQEWQLLAVMFGFAVSYLVRPLGGLVLGPLGDKVGRQKVLYVTMAMMAVSTALIGLLPTAASIGAWALVLLYLLKMVQGFSTGGEYAGATTYVAEFAPDRRRGFFGAFLDMGSYLGFAAGASVVAITTWVTTHFYGATAMEDFGWRIPFLTAIPLGIIAVYLRTRIPETPAFENNQDEPNAVVEKDTEDPYARLGLAGVIRHHWRPLLIGIAIVAATNTAGYALTSYMPVYLEEQIGLHSASAAAVTVPILVVMSLLLPFVGMWSDRVGRKPVYATAVAATLILMVPAFLIMNTGTIGAVLIALSMVAIPTGLYVALSASALPALFPTASRFSGMGISYNISVSLFGGTTPLITQFLLQKTGLDIVPALYIMFFSAIAGVALLFMTESSQKPLLGSFPTVETKSEAVEIVKNQDEDPNIDLSHMPFPDEENVGAEKQNA |
| 3774 | sp|P0AFV8|PSPD\_ECOLI | MNTRWQQAGQKVKPGFKLAGKLVLLTALRYGPAGVAGWAIKSVARRPLKMLLAVALEPLLSRAANKLAQRYKR |
| 3775 | sp|P23857|PSPE\_ECOLI | MFKKGLLALALVFSLPVFAAEHWIDVRVPEQYQQEHVQGAINIPLKEVKERIATAVPDKNDTVKVYCNAGRQSGQAKEILSEMGYTHVENAGGLKDIAMPKVKG |
| 3776 | sp|O81845|PUMP1\_ARATH | MVAAGKSDLSLPKTFACSAFAACVGEVCTIPLDTAKVRLQLQKSALAGDVTLPKYRGLLGTVGTIAREEGLRSLWKGVVPGLHRQCLFGGLRIGMYEPVKNLYVGKDFVGDVPLSKKILAGLTTGALGIMVANPTDLVKVRLQAEGKLAAGAPRRYSGALNAYSTIVRQEGVRALWTGLGPNVARNAIINAAELASYDQVKETILKIPGFTDNVVTHILSGLGAGFFAVCIGSPVDVVKSRMMGDSGAYKGTIDCFVKTLKSDGPMAFYKGFIPNFGRLGSWNVIMFLTLEQAKKYVRELDASKRN |
| 3777 | sp|Q9Z9C8|RADA\_CHLPN | MATKTKTQWTCNQCGATAPKWLGQCPGCHNWNSLVEEYVPQARSGTSSRSSTSAIALSSIELENESRIFIDHAGWDRILGGGVVRGSLTLLGGDPGIGKSTLLLQTAERLASQKYKVLYVCGEESVTQTSLRAKRLNISSPLIYLFPETNLDNIKQQIATLEPDILIIDSIQIIFNPTLNSAPGSVAQVREVTYELMQIAKSAQITTFIIGHVTKSGEIAGPRVLEHLVDTVLYFEGNSHANYRMIRSVKNRFGPTNELLILSMHADGLKEVSNPSGLFLQEKTGPTTGSMIIPIIEGSGALLIELQALVSSSPFANPVRKTAGFDPNRFSLLLAVLEKRAQVKLFTMDVFLSITGGLKIIEPAADLGALLAVASSLYNRLLPNNSIVIGEVGLGGEIRHVAHLERRIKEGKLMGFEGAILPEGQISSLPKEIRENFRLQGVKTIKDAIRLLL |
| 3778 | sp|Q9FFZ6|RBP11\_ARATH | MAALARIGGRHLKSVCLINSSASCFFTQRRGVASKLFIGGLSFCTTEQGLSEAFSKCGQVVEAQIVMDRVSDRSKGFGFVTFASADEAQKALMEFNGQQLNGRTIFVDYAKAKQSLGGGGGYPIARGPPDPAVIAATRTTETSKSD |
| 3779 | sp|P0A7G2|RBFA\_ECOLI | MAKEFGRPQRVAQEMQKEIALILQREIKDPRLGMMTTVSGVEMSRDLAYAKVYVTFLNDKDEDAVKAGIKALQEASGFIRSLLGKAMRLRIVPELTFFYDNSLVEGMRMSNLVTSVVKHDEERRVNPDDSKED |
| 3780 | sp|D2TPS8|SBMC\_CITRI | MNYEIRQVDKRTVAGFHLVGPWEQTVKQGFEQLMKWVEGRQIVTDEWIAVYFDNPDVVPAEKLRCSTVVSVPADFVVPANSEGVSLSEIDGGQYATAVARVTDNDFSTPWYQFFNSLAQDNKYEMACKPCFEVYLNDGCTEGYWDIEMYIAVQPLSR |
| 3781 | sp|A7MB74|SGK1\_BOVIN | MTVKTEAARDTLTYSRMRGMVAILIAFMKQRRMGLNDFIQKIANNSYACKHPEVQSILKISPPQEPELMNANPSPPPSPSQQINLGPSSNPHAKPSDFHFLKVIGKGSFGKVLLARHKAEEAFYAVKVLQKKAILKKKEEKHIMSERNVLLKNVKHPFLVGLHFSFQTADKLYFVLDYINGGELFYHLQRERCFLEPRARFYAAEIASALGYLHSLNIVYRDLKPENILLDSQGHIVLTDFGLCKENIEHNGTTSTFCGTPEYLAPEVLHKQPYDRTVDWWCLGAVLYEMLYGLPPFYSRNTAEMYDNILNKPLQLKPNITNSARHVLEGLLQKDRTKRLGAKDDFMEIKNHVFFSLINWEDLINKKITPPFNPNVSGPSDLRHFDPEFTEEPVPNSIGRSPDSLLLTASVKEAAEAFLGFSYAPPMDSFL |
| 3782 | sp|L0TCG5|SIGJ\_MYCTU | MEVSEFEALRQHLMSVAYRLTGTVADAEDIVQEAWLRWDSPDTVIADPRAWLTTVVSRLGLDKLRSAAHRRETYTGTWLPEPVVTGLDATDPLAAVVAAEDARFAAMVVLERLRPDQRVAFVLHDGFAVPFAEVAEVLGTSEAAARQLASRARKAVTAQPALISGDPDPAHNEVVGRLMAAMAAGDLDTVVSLLHPDVTFTGDSNGKAPTAVRAVRGSDKVVRFILGLVQRYGPGLFGANQLALVNGELGAYTAGLPGVDGYRAMAPRITAITVRDGKVCALWDIANPDKFTGSPLKERRAQPTGRGRHHRN |
| 3783 | sp|E5AD87|SHO1\_LEPMJ | MPVYGSVSSPSLRKMENGYGHGQRASLSFGRIIGDPFALATISIGVLAWIIAFVSSIISAIHGGFPNFAWWTLVFMFFCIAGVTVTVASDAERTYHVAIVGFLAAGLVFTTSSVNSLVYSPIAPFEAAAAGYILLSMIAVRDCISSSLSQPATNAPRPQIVWIFYYGSQPQASHRAFVDSYALHKEHPGSRSSRPISHGYTNRPETQVASQAPQMYTSAQLNGFETSSPVSGYPGGPAGANGRNSSVPQFGGMPNNGIPNAATPTQDEAHQQEASIEYPYRAKAIYSYEANPDDANEISFQKHDVLEVSDVSGRWWQAKKPNGETGIAPSNYLILL |
| 3784 | sp|C9SA05|SHO1\_VERA1 | MEHSRAQYGRRGMNMGNVIGDPFALASISIAMLAWVIAFISSIVAAVQTNDLPNLAWWILALEVGIVGAVFFVIASDTIQTYHVALTAYQTLALATLSILLNRIVYDGRGAMQAASAGYVLLSVVMALWMIYFGSAPSASPRAYVDSFALQKEGHGSRNTMTYGTGRPETSTSVQPPQMYTSAQLNGFENPSPVGGISQSQAPRNSAVPNLNSTGVTANGKPPGQDQEVGPPTEYPYRAKAIYSYEANPEDANEISFSKHEILEVSDVSGRWWQARKESGDTGIAPSNYLILL |
| 3785 | sp|B8NEM4|SHO1\_ASPFN | MVAYSTPSSSLHKPSPYNESRRMARFRPSNILGDPFALATISISILAWVIAFISSIVSAINARGYPTYSWWGVAYSLCIILGMTAVFGTDTGSVYGVAIVGYLSAGMVITTLGVNSLVYRSDSASQAAGAGFILMSMVIVIWIFYFGSTPQASHRGFIDSFALQKEHPGAYGNGRPMSTAFGNRPETTSSQAPQMYTSAQLNGFETSSPVSGYPGGAPGSENRSSSQPRFGNPSNANLTANGNENEVPQPTEYPYRAKAIYSYDANPEDANEISFTKHEILEVSDVSGRWWQARKSNGDTGIAPSNYLILL |
| 3786 | sp|P0C0K3|SRKA\_ECOLI | MNNSAFTFQTLHPDTIMDALFEHGIRVDSGLTPLNSYENRVYQFQDEDRRRFVVKFYRPERWTADQILEEHQFALQLVNDEVPVAAPVAFNGQTLLNHQGFYFAVFPSVGGRQFEADNIDQMEAVGRYLGRMHQTGRKQLFIHRPTIGLNEYLIEPRKLFEDATLIPSGLKAAFLKATDELIAAVTAHWREDFTVLRLHGDCHAGNILWRDGPMFVDLDDARNGPAVQDLWMLLNGDKAEQRMQLETIIEAYEEFSEFDTAEIGLIEPLRAMRLVYYLAWLMRRWADPAFPKNFPWLTGEDYWLRQTATFIEQAKVLQEPPLQLTPMY |
| 3787 | sp|Q7XR88|STRK1\_ORYSJ | MFTGCGLFACVRRCDGGDVRKRGEAGAMSSRVAADPAGVEEEGSCKNVAAASARQLAWADVESVTGGFSSRVIGHGGFSTVYLASLSSSRLGAVKVHCSSERLHRAFRQELEVLLSLRHPHIVRLLGYCDERDEGVLVFEYAPNGDLHERLHCSEVAGGVASVLPWARRVAIAFQVAMALEYLHESRHPAVIHGDIKASNVLLDANMNAKLCDFGFAHVGFSATVGCRPSARAVMGSPGYVDPHLIRSGVATKKSDVYSFGVLLLELVTGKEAVCRDTGRRLTAAVGPMLSEGKVADVVDRRLGGEHDGAEAAVMAELAMQCIGDSPGLRPSMADVVRALQEKTSALASAVGSRLDRKMMF |
| 3788 | sp|Q5XDZ7|RADA\_STRP6 | MAKKKATFICQECGYQSPKYLGRCPNCSAWSSFVEEVEVKEVKNARVSLAGEKSRPVKLKDVDNISYHRTQTDMSEFNRVLGGGVVPGSLILIGGDPGIGKSTLLLQVSTQLANKGTVLYVSGEESAEQIKLRSERLGDIDNEFYLYAETNMQAIRTEIENIKPDFLIIDSIQTIMSPDITGVQGSVSQVREVTAELMQLAKTNNIATFIVGHVTKEGTLAGPRMLEHMVDTVLYFEGERHHTFRILRAVKNRFGSTNEIGIFEMQSGGLVEVLNPSQVFLEERLDGATGSAVVVTMEGSRPILAEVQSLVTPTVFGNARRTTTGLDFNRVSLIMAVLEKRCGLLLQNQDAYLKSAGGVKLDEPAIDLAVAVAIASSYKEKPTSPQEAFLGEIGLTGEIRRVTRIEQRINEAAKLGFTKVYAPKNALQGIDIPQGIEVVGVTTVGQVLKAVFS |
| 3789 | sp|O59188|REG6\_PYRHO | MRVPLDEIDKKIIKILQNDGKAPLREISKITGLAESTIHERIRKLRESGVIKKFTAIIDPEALGYSMLAFILVKVKAGKYSEVASNLAKYPEIVEVYETTGDYDMVVKIRTKNSEELNNFLDLIGSIPGVEGTHTMIVLKTHKETTELPIK |
| 3790 | sp|P75685|RCLC\_ECOLI | MEKYLHLLSRGDKIGLTLIRLSIAIVFMWIGLLKFVPYEADSITPFVANSPLMSFFYEHPEDYKQYLTHEGEYKPEARAWQTANNTYGFSNGLGVVEVIIALLVLANPVNRWLGLLGGLMAFTTPLVTLSFLITTPEAWVPALGDAHHGFPYLSGAGRLVLKDTLMLAGAVMIMADSAREILKQRSNESSSTLKTEY |
| 3791 | sp|Q09777|RGS1\_SCHPO | MPALHNPSSPPPSYEAVTSYRNGNSIDSGDKRQQCSRLMKITSNGRPYSKDFLELFSTMVISTNFSRNRYRFSYVENSCTLLQLLSTLENLQLSQVNRIKSRCGSKVLKSTTKFTIPKTAAKCLCNTFLNARLLQIVNNPSARKFSNEKCLLQLTRKGYSVVSEFLQHNGHNSQAELYASKWNHSAPVIVSISRFSSTDQILKDSSFCEMLLVRMLGSVHEIGKSKNPLLVPVYSVSSPSPKDSLSKVTKYQMFGIDIAEWLMCNTMLLDWSEMETVASDLLIHSYIAYENNSETPLKFSYAKGVSYFLTGKGIATLGWTKNVSNNKLINKINEVEKGSTNKEILETILRKPNLQTYFFEFLKKNFCDENQRFYSEVCEFNDYFSHANETNDHEAIRESFAHACGIYNCFLSSNAPNAVNLPSDLYEKITNHMALAMEVEPLNEWLQLIHILLLEAQTAVLDLMAGDSLLKFLELNGGLGI |
| 3792 | sp|P0AGB7|RPOE\_ECOL6 | MSEQLTDQVLVERVQKGDQKAFNLLVVRYQHKVASLVSRYVPSGDVPDVVQEAFIKAYRALDSFRGDSAFYTWLYRIAVNTAKNYLVAQGRRPPSSDVDAIEAENFESGGALKEISNPENLMLSEELRQIVFRTIESLPEDLRMAITLRELDGLSYEEIAAIMDCPVGTVRSRIFRAREAIDNKVQPLIRR |
| 3793 | sp|P0DO99|RSGI\_BACAN | MMNKGIVMDIKKHSVVVLTPNGEFITCKRKGDSCMIGEEISFDEQEQKASRFSIPYFLKPASLLVACFLCALLFFYNQPEEKVFAYVSVDINPSLEVSVTKDLRVIDLQACNDDGRRILKELKQWENKQLQEVIRTIIKQSQEDKYLTNDKQVMLTAIAKDKLLEPKLEKVMKELKKEYELKHITVEYQSSTMQVRENAIKAGIGTGVYIKQENEKNKSVTPPATPSNPVENEEERQSQPDSSPDVVPDLSSVKDKKYEKPEYKEQKKIEEQPTKQIKENNGRGSQQENRGNQQENNGRESQQGNNGNQQGNNGRESQQGNNGNQQGNNGRGSQGNNGHQQENNGRGSQGNNGNQQGNNGRGSQGNNGHQQENNGRGSQGNNGNQQGDNGRGSQQGNNGNQQGDNGRGSQKENVGNEQGNNGRGSQQENRGHQQGNEKKNQ |
| 3794 | sp|F4JHA2|RSH1C\_ARATH | MTSASSMSVSVECVNICNLTKGDGNARSDCSALSCAWKAPRALTGFLASTAHPPVCSVYSCGRNGRKSRMKACAWQRYEYEVGFSEAPYFVNVRNILKSRLSCGGHKRWELYCVSAESSSGASSDVTVETLWEDLFPSISYLPRKELEFVQKGLKLAFEAHHGQKRRSGEPFIIHPVAVARILGELELDWESIVAGLLHDTVEDTNFITFEKIEEEFGATVRHIVEGETKVSKLGKLKCKTESETIQDVKADDLRQMFLAMTDEVRVIIVKLADRLHNMRTLCHMPPHKQSSIAGETLQVFAPLAKLLGMYSIKSELENLSFMYVSAEDYDRVTSRIANLYKEHEKELTEANRILVKKIEDDQFLDLVTVNTDVRSVCKETYSIYKAALKSKGSINDYNQIAQQLRIVVKPKPSVGVGPLCSPQQICYHVLGLVHEIWKPIPRTVKDYIATPKPNGYQSLHTTVIPFLYESMFRLEVQIRTEEMDLIAERGIAVYYNGKSLSTGLVGNAVPLGRNSRGKTGCLNNADFALRVGWLNAIREWQEEFVGNMSSREFVDTITRDLLGSRVFVFTPKGEIKNLPKGATVVDYAYLIHTEIGNKMVAAKVNGNLVSPTHVLENAEVVEIVTYNALSSKSAFQRHKQWLQHAKTRSARHKIMRFLREQAAQCAAEITQDQVNDFVADSDSDVEDLTEDSRKSLQWWEKILVNVKQFQSQDKSRDTTPAPQNGSVWAPKVNGKHNKAIKNSSSDEPEFLLPGDGIARILPANIPAYKEVLPGLDSWRDSKIATWHHLEGQSIEWLCVVSMDRKGIIAEVTTVLAAEGIALCSCVAEIDRGRGLAVMLFQIEANIESLVSVCAKVDLVLGVLGWSSGCSWPRSTENAQVLEC |
| 3795 | sp|O31602|SPX\_BACSU | MVTLYTSPSCTSCRKARAWLEEHEIPFVERNIFSEPLSIDEIKQILRMTEDGTDEIISTRSKVFQKLNVNVESMPLQDLYRLINEHPGLLRRPIIIDEKRLQVGYNEDEIRRFLPRKVRSFQLREAQRLAN |
| 3796 | sp|O32504|PPRA\_DEIRA | MLPLAFLICSGHNKGSMARAKAKDQTDGIYAAFDTLMSTAGVDSQIAALAASEADAGTLDAALTQSLQEAQGRWGLGLHHLRHEARLTDDGDIEILTDGRPSARVSEGFGALAQAYAPMQALDERGLSQWAALGEGYRAPGDLPLAQLKVLIEHARDFETDWSAGRGETFQRVWRKGDTLFVEVARPASAEAALSDAAWDVIASIKDRAFQRELMRRSEKDGMLGALLGARHAGAKANLAQLPEAHFTVQAFVQTLSGAAARNAEEYRAALKTAAAALEEYQGVTTRQLSEVLRHGLRES |
| 3797 | sp|P32696|PSPG\_ECOLI | MLELLFVIGFFVMLMVTGVSLLGIIAALVVATAIMFLGGMLALMIKLLPWLLLAIAVVWVIKAIKAPKVPKYQRYDRWRY |
| 3798 | sp|Q5Z8S0|PYL9\_ORYSJ | MEAHVERALREGLTEEERAALEPAVMAHHTFPPSTTTATTAAATCTSLVTQRVAAPVRAVWPIVRSFGNPQRYKHFVRTCALAAGDGASVGSVREVTVVSGLPASTSTERLEMLDDDRHIISFRVVGGQHRLRNYRSVTSVTEFQPPAAGPGPAPPYCVVVESYVVDVPDGNTAEDTRMFTDTVVKLNLQMLAAVAEDSSSASRRRD |
| 3799 | sp|P21499|RNR\_ECOLI | MSQDPFQEREAEKYANPIPSREFILEHLTKREKPASRDELAVELHIEGEEQLEGLRRRLRAMERDGQLVFTRRQCYALPERLDLVKGTVIGHRDGYGFLRVEGRKDDLYLSSEQMKTCIHGDQVLAQPLGADRKGRREARIVRVLVPKTSQIVGRYFTEAGVGFVVPDDSRLSFDILIPPDQIMGARMGFVVVVELTQRPTRRTKAVGKIVEVLGDNMGTGMAVDIALRTHEIPYIWPQAVEQQVAGLKEEVPEEAKAGRVDLRDLPLVTIDGEDARDFDDAVYCEKKRGGGWRLWVAIADVSYYVRPSTPLDREARNRGTSVYFPSQVIPMLPEVLSNGLCSLNPQVDRLCMVCEMTVSSKGRLTGYKFYEAVMSSHARLTYTKVWHILQGDQDLREQYAPLVKHLEELHNLYKVLDKAREERGGISFESEEAKFIFNAERRIERIEQTQRNDAHKLIEECMILANISAARFVEKAKEPALFRIHDKPSTEAITSFRSVLAELGLELPGGNKPEPRDYAELLESVADRPDAEMLQTMLLRSMKQAIYDPENRGHFGLALQSYAHFTSPIRRYPDLTLHRAIKYLLAKEQGHQGNTTETGGYHYSMEEMLQLGQHCSMAERRADEATRDVADWLKCDFMLDQVGNVFKGVISSVTGFGFFVRLDDLFIDGLVHVSSLDNDYYRFDQVGQRLMGESSGQTYRLGDRVEVRVEAVNMDERKIDFSLISSERAPRNVGKTAREKAKKGDAGKKGGKRRQVGKKVNFEPDSAFRGEKKTKPKAAKKDARKAKKPSAKTQKIAAATKAKRAAKKKVAE |
| 3800 | sp|P0AGB4|RPOH\_ECOL6 | MTDKMQSLALAPVGNLDSYIRAANAWPMLSADEERALAEKLHYHGDLEAAKTLILSHLRFVVHIARNYAGYGLPQADLIQEGNIGLMKAVRRFNPEVGVRLVSFAVHWIKAEIHEYVLRNWRIVKVATTKAQRKLFFNLRKTKQRLGWFNQDEVEMVARELGVTSKDVREMESRMAAQDMTFDLSSDDDSDSQPMAPVLYLQDKSSNFADGIEDDNWEEQAANRLTDAMQGLDERSQDIIRARWLDEDNKSTLQELADRYGVSAERVRQLEKNAMKKLRAAIEA |
| 3801 | sp|P50510|RPOH\_SERMA | MTKEMQTLALVPQGSLEAYIRAANAYPMLTAEEERELAERLHYQGDLDAAKQLILSHLRFVAHIARNYSGYGLPQADLIQEGNIGLMKAVRRFNPEVGVRLVSFAVHWIKAEIHEYVLRNWRIVKVATTKAQRKLFFNLRKTKQRLGWFNQDEVELVARELGVTSKDVREMESRMAAQDMTFDPTPDDEARDGQSMAPVLYLQDKSSDFAEGIEEDNWESNAADKLAYALEGLDERSQHIIRARWLDDDNKSTLQELADQYGVSAERVRQLEKNAMKKLKMAIEA |
| 3802 | sp|Q5JLA7|SAP13\_ORYSJ | MVLSGRGMLDGGADDVGLWLGMQDFLVFCESAMYATCPLCGLFSDSPKEGRSGGGGGSEGQRTDSRLQLPTTSIVDSPGKRSLCVRASDGAGERDAGRAAAAPVRERLWLLRLCQHPRPLLQVLPRQPPPDRDVPGAVVIVVHGASRRGTVPEGIPVDEGAMPPPPPPRAKTKSRCAACGRRVGLMGFECRCGAVFCGAHPLLGQARLWLRLQGRAGRDAIARANPVVSADKVDKL |
| 3803 | sp|Q7XQP4|SAPK7\_ORYSJ | MERYELLKDIGAGNFGVARLMRNKETKELVAMKYIPRGLKIDENVAREIINHRSLRHPNIIRFKEVVVTPTHLAIVMEYAAGGELFDRICNAGRFSEDEARYFFQQLICGVSYCHFMQICHRDLKLENTLLDGSPAPRLKICDFGYSKSSLLHSKPKSTVGTPAYIAPEVLSRREYDGKTADVWSCGVTLYVMLVGAYPFEDPDDPKNFRKTIGRIMSIQYKIPEYVHVSQDCRQLLSRIFVANPAKRITIREIRNHPWFLKNLPRELTEAAQAMYYKKDNSAPTYSVQSVEEIMKIVEEARTPPRSSTPVAGFGWQEEDEQEDNSKKPEEEQEEEEDAEDEYDKQVKQVHASGEFQLS |
| 3804 | sp|P33012|SBMC\_ECOLI | MNYEIKQEEKRTVAGFHLVGPWEQTVKKGFEQLMMWVDSKNIVPKEWVAVYYDNPDETPAEKLRCDTVVTVPGYFTLPENSEGVILTEITGGQYAVAVARVVGDDFAKPWYQFFNSLLQDSAYEMLPKPCFEVYLNNGAEDGYWDIEMYVAVQPKHH |
| 3805 | sp|J7MAN2|SAHS2\_RAMVA | MHRFVLALVVFAGAAIVWAADDAAHEEGVEWTGKPWMGKWESDPSKDENVEEFKKKLQLPMSHSEMNKNSKVWIHHYKKGDEYHHKIIINDAHYKNDIVFKLGQESAGSYNGSSFSVKYEDKDGALVGSVHYTGTKEQSLDKTINNVFKLEGDHLVKTSTIEGVTMKRHYNKRQ |
| 3806 | sp|B7LTX8|SBMC\_ESCF3 | MDYEIKQEKKRTIAGFHLVGPWEKTVKQGFDQLMMWVENHNIEPLEWVAVYYDNPDEVPAEKLRCDTVVTVPENFCLPENSEGVNVTEIAGGQYAVTVARVQGHDFGTPWYQFINSLLEDSQYQMAHKPCFEVYLNNGAVDGYWDIEMYVPVLPK |
| 3807 | sp|Q8NYH4|SCDA\_STAAW | MINKNDIVADVVTDYPKAADIFRSVGIDFCCGGQVSIEAASLEKKNVDLNELLQRLNDVEQTNTPGSLNPKFLNVSSLIQYIQAAYHEPLREEFKNLTPYVTKLSKVHGPNHPYLVELKETYDTFKNGMLEHMQKEDDVDFPKLIKYEQGEVVDDINTVIDDLVSDHIATGQLLVKMSDLTSSYEPPIEACGTWRLVYQRLKALEVLTHEHVHLENHVLFKKVS |
| 3808 | sp|Q9SCR0|SCL7\_ARATH | MAYMCTDSGNLMAIAQQLIKQKQQQQSQHQQQEEQEQEPNPWPNPSFGFTLPGSGFSDPFQVTNDPGFHFPHLEHHQNAAVASEEFDSDEWMESLINGGDASQTNPDFPIYGHDPFVSFPSRLSAPSYLNRVNKDDSASQQLPPPPASTAIWSPSPPSPQHPPPPPPQPDFDLNQPIFKAIHDYARKPETKPDTLIRIKESVSESGDPIQRVGYYFAEALSHKETESPSSSSSSSLEDFILSYKTLNDACPYSKFAHLTANQAILEATNQSNNIHIVDFGIFQGIQWSALLQALATRSSGKPTRIRISGIPAPSLGDSPGPSLIATGNRLRDFAAILDLNFEFYPVLTPIQLLNGSSFRVDPDEVLVVNFMLELYKLLDETATTVGTALRLARSLNPRIVTLGEYEVSLNRVEFANRVKNSLRFYSAVFESLEPNLDRDSKERLRVERVLFGRRIMDLVRSDDDNNKPGTRFGLMEEKEQWRVLMEKAGFEPVKPSNYAVSQAKLLLWNYNYSTLYSLVESEPGFISLAWNNVPLLTVSSWR |
| 3809 | sp|Q2KEW0|SHO1\_MAGO7 | MEHSRGQYGGGRKGMSLGNVIGDPFALATISIAGLAWLIAFIASIVAQIQTTQGFPTYTWWTVVFYFFLIPGVFVVVASDTIQTYHVALVGYMACGLVLTTSSVNGLVYSTNGAKEAAAAGFILLSMVTIVWIFYFGSAPSAMPRAYLDSFALSKESTSNNRQTMTGGGYGIGRPETSTSVQPPQMYTSAQLNGFENPSPVNGMRNSGAPPSGFPTTPGPASGLPKTTTPPAGGAADAEIVPPTEYPYRAKAIYTYEANPDDANEISFSKHEILEVSDVSGRWWQARKETGETGIAPSNYLILL |
| 3810 | sp|P27654|TIP1\_YEAST | MSVSKIAFVLSAIASLAVADTSAAETAELQAIIGDINSHLSDYLGLETGNSGFQIPSDVLSVYQQVMTYTDDAYTTLFSELDFDAITKTIVKLPWYTTRLSSEIAAALASVSPASSEAASSSEAASSSKAASSSEATSSAAPSSSAAPSSSAAPSSSAESSSKAVSSSVAPTTSSVSTSTVETASNAGQRVNAGAASFGAVVAGAAALLL |
| 3811 | sp|Q00216|TIGA\_ASPNG | MVRLSNLVSCLGLASAVTAAVVDLVPKNFDDVVLKSGKPALVEFFAPWCGHCKNLAPVYEELGQAFAHASDKVTVGKVDADEHRDLGRKFGVQGFPTLKWFDGKSDEPEDYKGGRDLESLSSFISEKTGVKPRGPKKEPSKVEMLNDATFKGAVGGDNDVLVAFTAPWCGHCKNLAPTWEALANDFVLEPNVVIAKVDADAENGKATAREQGVSGYPTIKFFPKGSTESVPYEGARSEQAFIDFLNEKTGTHRTVGGGLDTKAGTIASLDELIASTSAADLAAAVKKAATELKDKYAQYYVKVADKLSQNAEYAAKELARLEKILAKGGSAPEKVDDLISRSNILRKFVGEEKEAKDEL |
| 3812 | sp|Q6L4D2|PM19L\_ORYSJ | MAGVGRTMIAPLLVLNLIMYLIVIGFASWNLNHYINGETNHPGVAGNGATFYFLVFAILAGVVGAASKLAGVHHVRSWGAHSLAAGAASALIAWAITALAFGLACKEIHIGGYRGWRLRVLEAFVIILAFTQLLYVAMLHGGLFSGNHAAGAGGYGGDYPADHHHKPAAAARV |
| 3813 | sp|Q9SZD4|PRS4A\_ARATH | MGQGPSGGLNRQGDRKPDGGDKKEKKFEPAAPPARVGRKQRKQKGPEAAARLPTVTPSTKCKLRLLKLERIKDYLLMEEEFVANQERLKPQEEKAEEDRSKVDDLRGTPMSVGNLEELIDENHAIVSSSVGPEYYVGILSFVDKDQLEPGCSILMHNKVLSVVGILQDEVDPMVSVMKVEKAPLESYADIGGLEAQIQEIKEAVELPLTHPELYEDIGIKPPKGVILYGEPGTGKTLLAKAVANSTSATFLRVVGSELIQKYLGDGPKLVRELFRVADDLSPSIVFIDEIDAVGTKRYDAHSGGEREIQRTMLELLNQLDGFDSRGDVKVILATNRIESLDPALLRPGRIDRKIEFPLPDIKTRRRIFQIHTSKMTLSEDVNLEEFVMTKDEFSGADIKAICTEAGLLALRERRMKVTHPDFKKAKEKVMFKKKEGVPEGLYM |
| 3814 | sp|Q97D82|RRBR1\_CLOAB | MKKFKCVVCGYIYTGEDAPEKCPVCGAGKDKFVEVKDEGEGWADEHKIGVAKGVDKEVLEGLRANFTGECTEVGMYLAMARQADREGYPEVAEAYKRIAFEEAEHASKFAELLGEVVVADTKTNLQMRVDAEKGACEGKKELATLAKKLNYDAIHDTVHEMCKDEARHGSAFRGLLNRYFK |
| 3815 | sp|P50511|RPOH\_VIBCH | MTNQAYPMALVSQDSLDSYIRSVNGYPMLSADEERELAERLHYKGDIDAAKGLILSHLRFVVHVARGYSGYGLPMADLVQEGNIGLMKAVKRFNPEMGVRLVSFAVHWIKAEIHEYVLRNWRIVKIATTKAQRKLFFNLRKSKKRLGWFNNGEVETVARELGVEPAEVREMESRLAAQDAAFEMSAEDDENGMAYTAPVLYLEDKHSDLADNLEAENWEAHTTQRLSMALASLDERSQHIVRARWLDDDNKTTLQDLAEMYGVSAERIRQLEKNAMRKLKEAVGEF |
| 3816 | sp|P0AGB3|RPOH\_ECOLI | MTDKMQSLALAPVGNLDSYIRAANAWPMLSADEERALAEKLHYHGDLEAAKTLILSHLRFVVHIARNYAGYGLPQADLIQEGNIGLMKAVRRFNPEVGVRLVSFAVHWIKAEIHEYVLRNWRIVKVATTKAQRKLFFNLRKTKQRLGWFNQDEVEMVARELGVTSKDVREMESRMAAQDMTFDLSSDDDSDSQPMAPVLYLQDKSSNFADGIEDDNWEEQAANRLTDAMQGLDERSQDIIRARWLDEDNKSTLQELADRYGVSAERVRQLEKNAMKKLRAAIEA |
| 3817 | sp|Q9WVC6|SGK1\_MOUSE | MTVKAEAARSTLTYSRMRGMVAILIAFMKQRRMGLNDFIQKIASNTYACKHAEVQSILKMSHPQEPELMNANPSPPPSPSQQINLGPSSNPHAKPSDFHFLKVIGKGSFGKVLLARHKAEEVFYAVKVLQKKAILKKKEEKHIMSERNVLLKNVKHPFLVGLHFSFQTADKLYFVLDYINGGELFYHLQRERCFLEPRARFYAAEIASALGYLHSLNIVYRDLKPENILLDSQGHIVLTDFGLCKENIEHNGTTSTFCGTPEYLAPEVLHKQPYDRTVDWWCLGAVLYEMLYGLPPFYSRNTAEMYDNILNKPLQLKPNITNSARHLLEGLLQKDRTKRLGAKDDFMEIKSHIFFSLINWDDLINKKITPPFNPNVSGPSDLRHFDPEFTEEPVPSSIGRSPDSILVTASVKEAAEAFLGFSYAPPVDSFL |
| 3818 | sp|Q8L7N4|SP1\_ARATH | MIPWGGVTCCLSAAALYLLGRSSGRDAEVLETVTRVNQLKELAQLLELDSKILPFIVAVSGRVGSETPIKCEHSGIRGVIVEETAEQHFLKHNETGSWVQDSALMLSMSKEVPWFLDDGTSRVHVMGARGATGFALTVGSEVFEESGRSLVRGTLDYLQGLKMLGVKRIERVLPTGIPLTIVGEAVKDDIGEFRIQKPDRGPFYVSSKSLDQLISNLGKWSRLYKYASMGFTVLGVFLITKHVIDSVLERRRRRQLQKRVLDAAAKRAELESEGSNGTRESISDSTKKEDAVPDLCVICLEQEYNAVFVPCGHMCCCTACSSHLTSCPLCRRRIDLAVKTYRH |
| 3819 | sp|Q8RXN6|PRP31\_ARATH | MATLEDSFLADLDELSDNEAELDENDGDVGKEEEDVDMDMADLETLNYDDLDNVSKLQKSQRYADIMHKVEEALGKDSDGAEKGTVLEDDPEYKLIVDCNQLSVDIENEIVIVHNFIKDKYKLKFQELESLVHHPIDYACVVKKIGNETDLALVDLADLLPSAIIMVVSVTALTTKGSALPEDVLQKVLEACDRALDLDSARKKVLEFVESKMGSIAPNLSAIVGSAVAAKLMGTAGGLSALAKMPACNVQVLGHKRKNLAGFSSATSQSRVGYLEQTEIYQSTPPGLQARAGRLVAAKSTLAARVDATRGDPLGISGKAFREEIRKKIEKWQEPPPARQPKPLPVPDSEPKKRRGGRRLRKMKERYQVTDMRKLANRMAFGTPEESSLGDGLGEGYGMLGQAGSNRLRVSSVPSKLKINAKVAKKLKERQYAGGATTSGLTSSLAFTPVQGIELCNPQQALGLGSGTQSTYFSESGTFSKLKKI |
| 3820 | sp|W8E7I1|RBM3\_CAPHI | MSSEEGKLFVGGLNFNTDERALEDHFSSFGPISEVVVVKDRETQRSRGFGFITFTNPEHASNAMRAMNGESLDGRQIRVDHAGKSARGSRGGAFGSYERGRGYPRGGGDQGYGSGRYDNRPGAYGFGYGYGYGRSRDYGGRSQGGYDRYSGGNYRDNYDN |
| 3821 | sp|P42813|RNS1\_ARATH | MKILLASLCLISLLVILPSVFSASSSSEDFDFFYFVQQWPGSYCDTQKKCCYPNSGKPAADFGIHGLWPNYKDGTYPSNCDASKPFDSSTISDLLTSMKKSWPTLACPSGSGEAFWEHEWEKHGTCSESVIDQHEYFQTALNLKQKTNLLGALTKAGINPDGKSYSLESIRDSIKESIGFTPWVECNRDGSGNSQLYQVYLCVDRSGSGLIECPVFPHGKCGAEIEFPSF |
| 3822 | sp|D0ZSY9|RPOE\_SALT1 | MSEQLTDQVLVERVQKGDQKAFNLLVVRYQHKVASLVSRYVPSGDVPDVVQESFIKAYRALDSFRGDSAFYTWLYRIAVNTAKNYLVAQGRRPPSSDVDAIEAENFESGGALKEISNPENLMLSEELRQIVFRTIESLPEDLRMAITLRELDGLSYEEIAAIMDCPVGTVRSRIFRAREAIDNKVQPLIRR |
| 3823 | sp|Q99WW4|SCDA\_STAAM | MINKNDIVADIVIDYPKAADIFRSVGIDFCCGGQVSIEAASLEKKNVDLNELLQRLNDVEQTNTPGSLNPKFLNVSSLIQYIQAAYHEPLREEFKNLTPYVTKLSKVHGPNHPYLVELKETYDTFKSGMLEHMQKEDDVDFPKLIKYEQGEVVNDINTVIDDLVSDHIATGQLLVKMSDLTSSYEPPIEACGTWRLVYQRLKALEVLTHEHVHLENHVLFKKVS |
| 3824 | sp|Q2YV69|SCDA\_STAAB | MINKNDIVADVVTDYPKAADIFRSVGIDFCCGGQISIEAASLEKKNVDLNELLQRLNDIEQTNTPGSLNPKFLNVSSLIQYIQAAYHEPLREEFKNLTPYVTKLSKVHGPNHPYLVELKETYDTFKNGMLEHMQKEDDVDFPKLIKYEQGEVVDDINTVIDDLVSDHIATGQLLVKMSDLTSSYEPPIVACGTWRLVYQRLKALEVLTHEHVHLENHVLFKKVS |
| 3825 | sp|E0SBQ8|SBMC2\_DICD3 | MTLRFDVAPPKKVHCLRVIGPYYQSVPDGFQKLMAWSQEQQLPWTETLAFYWDDPSETEQDQLRADVALVLPEGTAIGENTLGVREETVPGGLFAVLHTIVSNGEFAKAWNELYDLIAQNGYKPARGICFESYLCDGSSGNWEIEIWQSVDPNDGAQ |
| 3826 | sp|P29457|SERPH\_RAT | MRSLLLGTLCLLAVALAAEVKKPVEAAAPGTAEKLSSKATTLAERSTGLAFSLYQAMAKDQAVENILLSPLVVASSLGLVSLGGKATTASQAKAVLSAEKLRDEEVHTGLGELVRSLSNSTARNVTWKLGSRLYGPSSVSFADDFVRSSKQHYNCEHSKINFRDKRSALQSINEWASQTTDGKLPEVTKDVERTDGALLVNAMFFKPHWDEKFHHKMVDNRGFMVTRSYTVGVTMMHRTGLYNYYDDEKEKLQLVEMPLAHKLSSLIILMPHHVEPLERLEKLLTKEQLKTWMGKMQKKAVAISLPKGVVEVTHDLQKHLAGLGLTEAIDKNKADLSRMSGKKDLYLASVFHATAFEWDTEGNPFDQDIYGREELRSPKLFYADHPFIFLVRDNQSGSLLFIGRLVRPKGDKMRDEL |
| 3827 | sp|Q680Q4|SIZ1\_ARATH | MDLEANCKEKLSYFRIKELKDVLTQLGLSKQGKKQELVDRILTLLSDEQAARLLSKKNTVAKEAVAKLVDDTYRKMQVSGASDLASKGQVSSDTSNLKVKGEPEDPFQPEIKVRCVCGNSLETDSMIQCEDPRCHVWQHVGCVILPDKPMDGNPPLPESFYCEICRLTRADPFWVTVAHPLSPVRLTATTIPNDGASTMQSVERTFQITRADKDLLAKPEYDVQAWCMLLNDKVLFRMQWPQYADLQVNGVPVRAINRPGGQLLGVNGRDDGPIITSCIRDGVNRISLSGGDVRIFCFGVRLVKRRTLQQVLNLIPEEGKGETFEDALARVRRCIGGGGGDDNADSDSDIEVVADFFGVNLRCPMSGSRIKVAGRFLPCVHMGCFDLDVFVELNQRSRKWQCPICLKNYSVEHVIVDPYFNRITSKMKHCDEEVTEIEVKPDGSWRVKFKRESERRELGELSQWHAPDGSLCPSAVDIKRKMEMLPVKQEGYSDGPAPLKLGIRKNRNGIWEVSKPNTNGLSSSNRQEKVGYQEKNIIPMSSSATGSGRDGDDASVNQDAIGTFDFVANGMELDSISMNVDSGYNFPDRNQSGEGGNNEVIVLSDSDDENDLVITPGPAYSGCQTDGGLTFPLNPPGIINSYNEDPHSIAGGSSGLGLFNDDDEFDTPLWSFPSETPEAPGFQLFRSDADVSGGLVGLHHHSPLNCSPEINGGYTMAPETSMASVPVVPGSTGRSEANDGLVDNPLAFGRDDPSLQIFLPTKPDASAQSGFKNQADMSNGLRSEDWISLRLGDSASGNHGDPATTNGINSSHQMSTREGSMDTTTETASLLLGMNDSRQDKAKKQRSDNPFSFPRQKRSNNEQDHQTRHRSLNKICIILCAGKN |
| 3828 | sp|Q06226|SGK1\_RAT | MTVKTEAARSTLTYSRMRGMVAILIAFMKQRRMGLNDFIQKLANNSYACKHPEVQSYLKISQPQEPELMNANPSPPPSPSQQINLGPSSNPHAKPSDFHFLKVIGKGSFGKVLLARHKAEEAFYAVKVLQKKAILKKKEEKHIMSERNVLLKNVKHPFLVGLHFSFQTADKLYFVLDYINGGELFYHLQRERCFLEPRARFYAAEIASALGYLHSLNIVYRDLKPENILLDSQGHIVLTDFGLCKENIEHNGTTSTFCGTPEYLAPEVLHKQPYDRTVDWWCLGAVLYEMLYGLPPFYSRNTAEMYDNILNKPLQLKNITNSARHLLEGLLQKDRTKRLGAKDDFMEIKSHIFFSLINWDDLINKKITPPFNPNVSGPSDLRHFDPEFTEEPVPSSIGRSPDSILVTASVKEAAEAFLGFSYAPPMDSFL |
| 3829 | sp|A5E1V8|SHO1\_LODEL | MGFKIRNFTGDPFAIATVSFGLIAWIVALAGAAASSQGSFPHFTWWGIAYQIVIILVITVLYLNNNIELYKFTLVGLVSIGFIYTTNSTNNLVYNSSSSGNLCCAAGCILLSILNLIWILYFGGHPESPTNQFIDSFSSNKYANEYIGRSSVLKTEPFDDQQGFNSAASKRFTSTGISLPQENVSQMSQTNTHSQQQQHSTNAANASNATSYFPLTQLHGLENSSQDMMGSAPRDLTQNTNTNSSGTKRNTLYTDSEGGTGITFRYKAKALYSYDANPDDINEISFIKDEILDVDDVDGKWWQARRANGQVGICPSNYVKLIDT |
| 3830 | sp|Q04902|SNO4\_YEAST | MTPKRALISLTSYHGPFYKDGAKTGVFVVEILRSFDTFEKHGFEVDFVSETGGFGWDEHYLPKSFIGGEDKMNFETKNSAFNKALARIKTANEVNASDYKIFFASAGHGALFDYPKAKNLQDIASKIYANGGVIAAICHGPLLFDGLIDIKTTRPLIEGKAITGFPLEGEIALGVDDILRSRKLTTVERVANKNRAKYLAPIHPWDDYSITDGKLVTGVNANSSYSTTIRAINALYS |
| 3831 | sp|F4HRS2|SWTIE\_ARATH | MTKNIASDNVPLSRFGVLVAQLESIVASASQKNPDPLLCFEILSDLISAIDEEPKESLLVTQRKCEDALYSLVTLGARRPVRHLASVAMAKIISNGDSISIYSRASSLQGFLSDGKRSDPQRVAGAAQCLGELYRHFGKKITSGLFETTSIVTKLVKFNEDFVRQEAFILLHNALEGCGGTAAATAYSEAYRLITRFSTLDKSFVVRIAAARCLKAFSNIGGPGLGTSEFDTLASYCVKGIEDSESSVRDAFAEALGSLLALGMHPEAHVQPRGKGPFPPAKKLEGGLQRHLILPFTKAVGSRAKNTRFGLALSWVFFLQAIRIRYLDSDSELQDYSLPIMDMLRGDSSIDAHALACVLYILRVGVIDQMMEPSQRSFSVFLGKQLQSSNASPSMKIVALRALSYTLKTLGEVPHEFKEFFDDTVGAALSHFLDLVRVEAALTLRALAEVDPTCVGGLTSFAVTTLNALRESLSFEKGDKLKTDLASLHGQAATLAALVSISPGLSLGYPARLPRSVLEVSKKMLTESRRNVTVASSEKEAGWLLLSSLLNSMPKEEFGDQDFDILILWTDVFAGNPEHLIKQQAELKSMLSVWSAAIDALTAFVRRFVSCNDGILLQPVLANLRSALSCVSTMANKRFSDVKTLVDILIIRILIAYQSIPDPLAYKSEHQQIIQLCTTPYRDPSGFEESSCLKSLLDKRDAWLGPWIPGRDWFEDELRYFQGGEDGLAPSVWESKVSSFPLPETVKKTLVNQMVLCFGIMFASQDSQGMLSLLSVIQQCLKAGKKQQWRTASLTNICAGLLAGLKALHALRPQQLTTEVLSSGQAIFQNILTEGDICASQRRAACEGLGLLARLGNDIFTARMTRVLLGDLSGVTDPNYGGSIALALGCIHHSAGGMALSSLVPATVNSVSSLTKTSVLGLKIWALHGLLLTIEAAGLSFVSHVQAALGLALDILLTEESGWIDLSQGIGRLINAIVAVLGPELSPGSILFSRCKSVIAEISSWQEIPTLLESVCFTQQLILFAPQAVSVHIHVKNLLMTLASRQPIIRRLSVSTLRHLVEKDPVSVIDEQIEDNLFQMLDEETDSEIGNLIRSTLIRLLYATCPSRPSRWMLICRNMALAASAGRSAETSIAENDPAYTRENLGDDDEDMVSSSSGKSIRANPDKDKTLRYRTRVFAAECLSLLPEAVGNDAAHFDILLARNLASNRQSSGDWLVLQLQELISLAYQISTIQFENMRPIGVGLLSTILEKFKLVADPELPGHLLLEQYQAQLLSAVRTALDANSGPVLLEAGLQLATKIMTSGIIRSDQVAVKRIFSLLSRPLNDFNELYYPSFAEWVTSKIKIRLLAAHASLKCYIFTFLRKHHGEVPVEFEALLPMFSKSSDLLGRYWIQVLKGYSYICLCQNLKKSQCSFLDEILPHTVSRRLQPCLEEAWPVILQALVLDAIPVNHSVEEFSDRSLISTHRMVTLEAEDFQFLWGFAVLVLFQGMHPASSMQVIPFSSAKIKSSGDSSINESSFQGLKLYEIALPVFQSLSAGRFFSSGFLSIDLCQELLQVLSYSFHMDSSWDILAVSVVQQISQNCPKDFLESEEFAYSTIELCLGYLFKILHRHNEISPDDGIWDNMLSPLFISIKTLVKRFELKHRLNSAPLAFLLSGYKCIRQVPTDAYLPKALEIVKSTNDLLLELTRASSQKPYTDGTNFAADSGFHLRAIFGACLHMVGDLTRDCINGIQLVDSKRSGLRKLLQLKLVFCLEQLFSLAKLAYEFDCPVDETNTNSICIVMLKSCQISIAAVVKDSNVQVQATVLQVLKSLVQRYNNPEEKSFVILFVGELIGDIVSLMQRALLKPVNTESVVIAGECLRFIMLLQTHSITDELQKGFMSLFLEVVLVVFSKTSDGVSQEVLELRNVAVRLVSHLAQLPSSAVHFKDVLLSLPVTHRQQLQDIIRASVSKDSALAKPKSLVPAMDIKLPAPVVATPEKVTSTANMVKEEALSTMPTSFNQVSTVESGTDEEEEEEEDDDDDDWDTFQSFPASTNLEGSESKTESVAEEEPDLPGRSSIQDDESNAEETDDQHLASDHATDITREDSNDKSKEVVEEETVEPCFTTREDSVDKSKEVEEETVKPCLIEDALTSQNDKTSSGDHPVEINEQSVESKNLESENIGTDIKLASTEVESPALDDLEPQQIQKSPEDESSKEHVGADVIVTEETIAENKSDVDYI |
| 3832 | sp|O82275|TAX1\_ARATH | MCDGDCRPLGFLLGLPFAFLSLLLSIIGVIIWIVGLLLSCICPCCLCVTVLVEIAIGLIKAPIHVMEWFMSKIPC |
| 3833 | sp|Q08422|TMC1\_YEAST | MSDINEIEIPSRKDEIRQVTPKDPMHEIEDKSTYHAKIKKSDSGTVLGAIPLNSRSSSNSSVTSTGQSSRRVTKKTTKKKKKNACYFDTCSSAASKFIGDCNFCKGHFCSKHRLMENHACNGLTSCKEQLHQRNADKLEAEQTKAPKIQI |
| 3834 | sp|F4JP52|PQT3\_ARATH | MAIYYKFKSARDYDTISMDGPFITVGLLKEKIYETKHLGSGKDLDIVISNAQTNEEYLDEAMLIPKNTSVLIRRVPGRPRIRIITREEPRVEDKVENVQADMNNVITADASPVEDEFDEFGNDLYSIPDAPAVHSNNLCHDSAPADDEETKLKALIDTPALDWHQQGADSFGPGRGYGRGMAGRMGGRGFGMERTTPPPGYVCHRCNVSGHFIQHCSTNGNPNFDVKRVKPPTGIPKSMLMATPNGSYSLPSGAVAVLKPNEDAFEKEMEGLTSTTRSVGEFPPELKCPLCKEVMRDAALASKCCLKSYCDKCIRDHIIAKSMCVCGATHVLADDLLPNKTLRDTINRILESGNSSAENAGSMCQVQDMESVRCPPPKALSPTTSAASGGEKKPAPSNNNETSTLKPSIEIAEITSAWASAEIVKVEKPVDASANIQGSSNGKEAAVSQLNTQPPKEEMPQQVASGEQGKRKKKKPRMSGTDLAGPDYMMPMGPGPGNQYFNGFQPGFNGVQHGFNGVQPGFNGFHHGFNGFPGPFPGAMPPFVGYGFGGVIHPDPFAAQGFGFPNIPPPYRDLAEMGNRMNLQHPIMGREEFEAKKTEMKRKRENEIRRSEGGNVVRDSEKSRIMNNSAVTSSPVKPKSRQGPPPPISSDYDRRRRSDRSSPERQSSRRFTSPPRSSSRKSERDRHHDLDSEHDRRRDRPRETDRKHRKRSEKSSSDPTVEIDDNNKSNVFTRISFPEESSGKQRKTSKSSPAPPESSVAPVSSGRRHHSRREREMVEYDSSDDEDRHFKRKPSRYKRSPSVAPSDAGDEHFRHSKRSKGERARA |
| 3835 | sp|P54617|PSPA\_BACSU | MSIIGRFKDIMSANINALLDKAENPEKMVDQYLRNMNSDLAKVKAETAAVMAEEQRAKREYHECQADMEKMESYAMKALQAGNESDARKFLERKTSLESKLSELQAANQIAATNAAQMRKMHDKLVSDIGELEARKNMIKAKWAVAKTQERMNKLGASVSSTSQSMSAFGRMEDKVNKALDQANAMAELNSAPQDDMADLSAKYDTGGSSQVDDELAALKAKMMLDK |
| 3836 | sp|Q2YMH5|RADA\_BRUA2 | MAKTRVQFICQNCGAVHSRWAGKCDSCGEWNTLIEEGTNSGIGSGPAAMLSKRKGRAVALTSLSGEIEDAPRIVSGISELDRVTGGGFVRGSALLIGGDPGIGKSTLLTQAAAALSNRGHRIVYVSGEEAVAQIRLRAQRLGVAASAVELAAETNVEDIIATISSDNSGSKRPDLVIIDSIQTLWTDMADSAPGTVTQVRSSAQAMIRYAKQTGAAVVLVGHVTKDGQIAGPRVVEHMVDGVLYFEGEGGHHYRILRTVKNRFGPTDEIGVFEMSDGGLREVSNPSELFLGERNEKSPGAAVFAGMEGTRPVLVEIQALVAPSSLGTPRRAVVGWDGGRLAMILAVLESHCGVRFGQHDVYLNVAGGYRISEPAADIAVAAALVSSMAGIALPPDCVYFGEISLSGAVRAVSHAVQRLKEAEKLGFRQAEVPNGSGELWKDRNFRLMETAALADLVARIAASGAGKK |
| 3837 | sp|Q6H595|SAP17\_ORYSJ | MARRGTEAFPDLGAQCDREDCNQLDFLPFDCDGCGKTFCAEHRTYRDHGCARAADQGRTVVVCEACGDAIERRAGDGGGDDAAVLEAHARSRRCDPARKRKPRCPVPRCKETLTFSNTSGCKGCGQKVCLKHRFPADHACAGAGAGAASKAAGAAAAARSAGQCGRDAQKKEGGGWKLPQSVRNMKIF |
| 3838 | sp|C9XVF1|SBMC\_CROTZ | MDYTIEHVLTRKIAGFHLVGPWEKTVPQGFEQLTLWVDNFHIQPQAWLAVYYDNPQQVAPEKLRADTVVEVPADFTLPENSVGVILTDLPGGQYAVARARVENHDFGTPWLAFFTRLHQDVRYQMAARPCFEIYLNDGKRDGYWEIDMYIPVQTSGE |
| 3839 | sp|P0A0J1|SODM1\_STAAM | MAFELPKLPYAFDALEPHFDKETMEIHHDRHHNTYVTKLNAAVEGTDLESKSIEEIVANLDSVPANIQTAVRNNGGGHLNHSLFWELLSPNSEEKGTVVEKIKEQWGSLEEFKKEFADKAAARFGSGWAWLVVNNGQLEIVTTPNQDNPLTEGKTPILGLDVWEHAYYLKYQNKRPDYIGAFWNVVNWEKVDELYNATK |
| 3840 | sp|P23618|THI4\_FUSOX | MAPPAAVSPPSRSAELATSTKLPVMSKNINTKTVEEMLGQWDDFKFAPIRESQVSRAMTRRYFQDLDNYAESDIVIIGAGSCGLSAAYILGKKRPDLKIAIIEASVSPGGGAWLGGQLFSAMIMRKPADAFLREVGVPYEDEGNYVVVKHAALFTSTIMSKVLQMPNIKLFNATCVEDLITRPSEEGVRIAGVVTNWTLVSMHHDDQSCMDPNTINAPLIISTTGHDGPMGAFCVKRLVSMQRIEKLGGMRGLDMNLAEDAIVKGTREIVPGLIVGGMELSEVDGANRMGPTFGAMALSGLKAAEEALKIFDTRKKQNDL |
| 3841 | sp|Q9CRG1|TM7S3\_MOUSE | MWRLRLLVLAVLAAGSAEAQANSSDGFLEFSVGKFTYFVLSKSSPQEAVLRHISSNVTFLLFQIHSQYQNTTVSFTKTLLPSTSGTGNDRGLVFILRPEQAVCTWYLETGDTKPVQSVALTLSYSERDPIPGGCNLEFDLDIDPNLYLDYNFFETTIKFAPANIGYARATEPPPCDVSTSRESRWRLRYDVYQYFLPEGDLTEASLLHHLQRMAQVAQVKASAIKVATLTADDKTAVSFSSLPGQGVIYNVIVWDPSLNTSAAYVPVHTYACSFESVDGNCASPGRVSTKVFSTLFALLGLFVCFFGHRFWKTDLFFVGFIFLGFFFYILITRLTPLQYDVRLALTAVAGSFGGLLLVASWWRFGILTLCMLCVGLVLGFLVSSGTFFTPLGNLNVFHDDGVFWVTFSCIALLVPVIFMGCLRILNILACGVVGSYSVVLAVNSYMFTSLSYITLNVLRRALNTDFRGAFIRVPFQTNDYIILAVWGMLAVSGITLQIRRERGQPPFPPHPYKLWKQERERRVTNILDPSHHIPPLRERLYGRVARIKELFQKEQPAGERTPLLL |
| 3842 | sp|P0AFM6|PSPA\_ECOLI | MGIFSRFADIVNANINALLEKAEDPQKLVRLMIQEMEDTLVEVRSTSARALAEKKQLTRRIEQASAREVEWQEKAELALLKEREDLARAALIEKQKLTDLIKSLEHEVTLVDDTLARMKKEIGELENKLSETRARQQALMLRHQAANSSRDVRRQLDSGKLDEAMARFESFERRIDQMEAEAESHSFGKQKSLDDQFAELKADDAISEQLAQLKAKMKQDNQ |
| 3843 | sp|Q9KGG1|RADA\_BACHD | MAKKKTKFMCQECGYESAKWMGKCPGCQSWNSMVEEFTEVKAKSSRSYVTSGAGIAKPQPITKVEREQEPRIDTSMKELNRVLGGGIVPGSLVLVGGDPGIGKSTLLLQLSARLADLKQRVLYISGEESVKQTKIRSDRLGVLSDHLYVLAETDMEKIEQAIGEVDPTLVIIDSIQTVYQDEITSAPGSVAQVRECTASFMRIAKTTGVAIFIVGHVTKQGAIAGPKLLEHMVDSVLYFEGERHHTYRILRAVKNRFGSTNEMGIFEMKESGLEEVANPSEIFLEDRSSGVAGSTVVASMEGTRPVLVELQALISPTSFGNPRRMATGVDHNRISLLMAVLEKRVGMLLQNQDAYVNVAGGVRLDEPAIDLGIAVSIASSFRNQHTNPHEVVIGEIGLTGEVRRVSRIDQRVNEAAKLGFKRVIIPDKNLGGWTIPSTIEVIGVSTVQDALEVTLGR |
| 3844 | sp|P0C079|RELB\_ECOLI | MGSINLRIDDELKARSYAALEKMGVTPSEALRLMLEYIADNERLPFKQTLLSDEDAELVEIVKERLRNPKPVRVTLDEL |
| 3845 | sp|O04515|RAS1\_ARATH | MPNTSSSQSFTIFVDGWLIRHRYFVEQLMCASSLDETNRISLEEQQSLVAQFLSHCLQYYQEKFASVSLAGDNVFTFFCPPWFNSYAKLILWVGDFKPSLVFKLTEVSVADLTRHQKDRISSLKSETRRKEREVMRDFALVQQSVADPPVMLAARRVGAVGMVDGEETDLEEAMEVLKAGMAAAMNNADQLRCSTVGKVVEILTPPQAIKVLRTIGQLHLRLRDRDQERA |
| 3846 | sp|Q2EEQ2|RL362\_ECOLI | MKVLNSLRTAKERHPDCQIVKRKGRLYVICKSNPRFKAVQGRKKKR |
| 3847 | sp|D3QFZ3|SCDA\_STALH | MITKETIVAEVVTDYPKAADVFKHAGIDFCCGGAISIEQASQKSKLSLEALLSQLQQLERQSEPGGGLNPKYLSVASLIQYIQAAYHEPLKEELKQLTPYITKVAKVHGPQHDYLIELKALYTQYKNNMTAHTAQEDDHDFPKMIAFSNGQDVAEIEQIILDLKTDHDEVGQILKKMNQLTNDYTIPNEACNTWRLVYQRLQAIEKATYRHVHLENHVLFNKLHA |
| 3848 | sp|Q8WN60|ANGI\_SAISC | MVMGPHLLLLVFILGLGLTPPTLAQNDSRYIKFLDQHYDPKTKNGNDKYCEKMMRLRNMISPCKEINTFIHGNKASIKAICGNQNGQPYNGNQRISTSAFQVTICRHIGGSPRPPCRYRATAGFRNIVIACENGLPVHLDESIFRP |
| 3849 | sp|Q9S5Z2|CLPE\_LACLM | MLCQNCNINEATIHLYTSVNGQKKQIDLCQNCYQIMKSGGQEALFGAGNASNGNSDEPFNPFNDIFSALQGQDFNGAASNQTPPTQTGGRGPRGPQNPRAKQPKGMLEEFGINITESARRGEIDPVIGRDEEIKRVIEILNRRTKNNPVLIGEPGVGKTAVVEGLAQKIVDGDVPQKLQNKEVIRLDVVSLVQGTGIRGQFEERMQKLMDEIRKRNDVIMFIDEIHEIVGAGSAGDGNMDAGNILKPALARGELQLVGATTLNEYRIIEKDAALERRMQPVKVDEPSVDETITILRGIQARYEDYHHVKYTDEAIEAAAHLSNRYIQDRFLPDKAIDLLDESGSKKNLTLKFVDPEDINRRIADAESKKNEATKAEDFEKAAHFRDQISKLRELQKQEVTDEDMPVITEKDIEQIVEQKTQIPVGDLKEKEQTQLINLADDLKAHVIGQDEAVDKISKAIRRSRVGLGKPNRPIGSFLFVGPTGVGKTELAKQLAKELFGSSESMIRFDMSEYMEKHSVAKLIGAPPGYVGYEEAGQLTERVRRNPYSLILLDEIEKAHPDVMHMFLQILEDGRLTDAQGRTVSFKDSLIIMTSNAGTGKVEASVGFGAAREGRTKSVLGQLGDFFSPEFMNRFDGIIEFSALSKENLLKIVDLMLDEVNEQIGRNDIHLSVTQAAKEKLVDLGYNPAMGARPLRRIIQENIEDSIADFYIEHPEYKQLVADLIDDKIVISNQTQETAETTDEEVPAE |
| 3850 | sp|Q8KA87|CLPB2\_CHLTE | MHFDPNKFTVKAQEALQAASMLASSKQNQQIEPEHLLSVMLGDHDNIACQIARKLETPVDTLLSVVDREIDRIPKVTGASATGQYISSDLGKVFDTALKEAEQLKDEYISSEHLFIAMSEAGVKVSKLLKDAGIDRNAILKVLTSFRGSQRVTSQNAEESYQSLKKYSRNLNDLVIKGKLDPVIGRDDEIRRVLQILSRRTKNNPVLIGEPGVGKTAIVEGIAQRIVGGDVPENLKSKQIAALDIAALVAGTKFRGEFEERLKALVKEVQASDGEVILFIDELHLLVGAGSAEGSMDAANILKPALARGELRCIGATTLDEYRKHIEKDAALERRFQTVIVDQPSVEDTVSILRGLKEKYEIHHGVRIKDAALVAAAELSNRYIADRFLPDKAIDLIDEACSRLRLEIDSEPEELDRINRELRRLEIEREALKRELEATGSV |
| 3851 | sp|P0A9X9|CSPA\_ECOLI | MSGKMTGIVKWFNADKGFGFITPDDGSKDVFVHFSAIQNDGYKSLDEGQKVSFTIESGAKGPAAGNVTSL |
| 3852 | sp|B9E6X1|DNAK\_MACCJ | MSKVIGIDLGTTNSCVAVLEGGEPKVIANPEGNRTTPSVVAFKNGETQVGEVAKRQAITNPNTIISIKRHMGTDYKENIEGKEYSPQEISAMILQNLKATAESYLGEKVTKAVITVPAYFNDAERQATKDAGKIAGLEVERIINEPTAAALAYGLDKTDKEQKVLVFDLGGGTFDVSILELGDGVFEVLSTSGDNKLGGDDFDQVIIDYLVEEFKKENGLDLSQDKMAMQRLKDAAEKAKKDLSGVSSTQISLPFISAGEAGPLHLEVTLSRAKFEELSHTLVERTMGPTRQAMKDAGLSNADIDEVILVGGSTRIPAVQEAIKKELGKEPNKGVNPDEVVAMGAAIQGGVITGDVKDVVLLDVTPLSLGIETMGGVSTVLIERNTTIPTSKSQVFSTAADNQPAVDIHVLQGERQMAADNKTLGRFQLTDIPPAPRGVPQIEVTFDIDKNGIVNVTAKDLGTQKEQKITIQSSSSLSDEEIDRMVKDAEANAEADKKRREEVDLRNEADQLVFATDKAIKDLEDKVDAAEKEKAEAAKEELKKALEGNDLEEIKAKKDTLNEIVQGLSMKLYEQMAQAQQGAEGAASQDDDVVDADFTEVKDDDNK |
| 3853 | sp|B8GNX2|DNAJ\_THISH | MAKRDYYEILGVAKNASEAELKKAFRRLAMKHHPDRNPGDKESEEKFKEAKEAYEILTDPQKRAAYDQFGHAGVDPSAGGGARGGASFSDIFEDIFGDIFGGGRGGGSRVYRGSDLQYNLELTLEEAVFGTEVKIRVPSLVECGECHGSGAEKGTTPETCGTCGGVGQVRMQQGFFSVQQTCPRCHGTGKMITHPCKACHGQGRVEEHKTLSVKVPAGVDSGDRIRLSGEGEAGINGGPPGDLYVQIHVKAHKLFTRKGNDLMCEVPISFATAALGGELEIPTLDGRVNLKIPEETQSGRLFRLRAKGVKSVHGGAQGDLICRVSVETPVNLTKRQKELLKELDETMKAGGTRHSPQEEGWLDGVKGFFEDLKFWNK |
| 3854 | sp|Q9ZFC6|DNAK\_METSS | MAKIIGIDLGTTNSCVAVMEGGKPRVIENAEGTRTTPSIVAYQDDGEILAGAPAKRQAVTNPKNTLYAVKRLIGRRFEEKEVQKDIGLMPYTITKADNGDAWVEVRGQKMAPPPNSAEVLRKMKKTAEDYLGEEVTEAVITVPAYFNDSQRQATKDAGRIAGLEVKRIINEPTAAALAFGLDKQEGDRKIAVYDLGGGTFDISIIEIAEIDGEHQFEVLSTNGDTFLGGEDFDNRLIDFLADEFKKEKRLDLRNDLLAKQRLKEAAEKAKIELSSAQQTEVNLPYITADATGPKHLVVKITRTKFESLVEDLIERSIKPCEVALKDAGVKPSDIQDVILVGGQTRMPKVQEKVKEFFGKEPRKDVNPDEAVAVGAAIQGGVLQGDVKDVLLLDVTPLSLGIETLGGVMTKLIKKNTTIPTKASQVFSTAEDNQNAVTIQVLQGEREMAAGNKSLGQFNLSDIPPAPRGMPQIEVTFDIDANAILHVSAKDKATGKENKITIKANSGLSEEEIKRMEEDAAAYADEDRKLRELVDARNSADGMVHSVKKSLSEHGDKLEAGEKEKIEAAIKDVEDAIKGDDKEAIEAKTNALMEASQKLGEKVYAEQQAQQGGAEEAQPQGEKTVDADVVDAEFEEVKDDKK |
| 3855 | sp|Q0HLN0|DNAK\_SHESM | MGKIIGIDLGTTNSCVAVLDGGKARVLENAEGDRTTPSIIAYTDDETIVGQPAKRQAVTNPNNTFFAIKRLIGRRFKDDEVQRDVNIMPFKIIQADNGDAWVESRGNKMAPPQVSAEILKKMKKTAEDFLGEEVTEAVITVPAYFNDSQRQATKDAGRIAGLEVKRIINEPTAAALAYGIDKKQGDNIVAVYDLGGGTFDISIIEIDSNDGDQTFEVLATNGDTHLGGEDFDNRLINYLADEFKKEQGLDLRKDPLAMQRLKEAAEKAKIELSSTNQTEVNLPYITADATGPKHLVVKITRAKLESLVEDLIIRTLEPLKVALADADLSVSDINEVILVGGQTRMPKVQEAVTNFFGKEPRKDVNPDEAVAVGAAIQAGVLSGDVKDVLLLDVTPLSLGIETMGSVMTKLIEKNTTIPTKAQQVFSTADDNQSAVTIHVLQGERKQASANKSLGQFNLDGIEPAPRGMPQIEVMFDIDADGILHVSATDKKTGKKQNITIKASSGLSEEEVAQMVRDAEAHAEEDKKFEELVQSRNQADGLVHATKKQVEEAGDALPADDKAKIEAAMSAVEVATKGNDKEAIEKATQELIEASAKLMEIAQAKAQTQGGAQEGAAKQSNATADDVVDAEFEEVKDDKK |
| 3856 | sp|A8GMF9|DNAK\_RICAH | MGKVIGIDLGTTNSCVAVMEGKEPKVIENAEGERTTPSIIAFANGEKLVGQSAKRQAVTNPSNTIYAVKRLIGRNFTDPMVKKDQDIVPYNIVKADNGDAWVEADSNKYSPSQISAFILQKMKETAENYLGEKVTQAVITVPAYFNDAQRQATKDAGKIAGLEVLRIINEPTAAALAYGFDKAASKTIAVYDLGGGTFDVSILEIGDGVFEVKSTNGDTFLGGEDFDTRILNHLIDVFKKESGIDLRNDPLALQRLKEAAEKAKKELSSAVTTDINLPYITADSTGPKHLNIKFTRAEFEKLVDDLIEKTVEPCITALKDAGLKASDIQEVVLVGGMTRMPKVQEAVKKFFGREPHKGVNPDEVVALGAAIQGGVLNKEVTDILLLDVTPLSLGIETLGGVFTRLIDRNTTIPTKKSQVFSTADDNQHAVTIRVFQGEREMAASNKLLGQFNLEGIPPAPRGVPQIEVTFDIDVNGIVHVSAKDKASGKEQKVTIQASGGLSDAEIEQMVKDAEQNAYEDKKRKELIEAKNAADSLVYSTEKSLTEYGDKLSSEDKGAAEEALSALKAVLESEDAALIKEKTERLTAASMKIGEAMYKAQSENQPAGENTANDDKVVDADFQDVAKK |
| 3857 | sp|Q4QJW5|DNAJ\_HAEI8 | MAKKDYYEVLGLQKGASEDDIKRAYKRLASKHHPDKNQGSKEAEEKFKEINEAYEVLGDDQKRAAYDQYGHAAFEQGGGTGGFGGGFGGADFGDMFGDIFGDIFGGGRGRQRVVRGEDLRYDLEISLEEAVKGTTKDIQINTLAHCDSCGGSGAEKGSKVETCPHCHGSGRIRRQQGFFVSESICPTCHGSGKKIEKPCRSCHGEGRVHKKENLSVKIPAGVDTGNQLRLAGKGAAGENGAPAGDLYVVIHVREHNIFERDGSNLYCEVPISFATAALGGEIEVPTLDGRVKLKIPAETQTGKLFRMRGKGVASTRSGYAGDLICRIVVETPVNLTSEQKELLHKLEESLQGKDLSKHAPKSSGFLDGVKKFFDNLGKSDK |
| 3858 | sp|Q75VW3|DNAJ\_HYDTT | MPIKDYYQILGVSKDATAEEIKKAYRRLAKEYHPDISADENASEKFKEINEAYHILSDEERRKEYDRILKSGDEKSYRDFMEYIQDFLESIWQGMRRSPKPKKGGDVRLKLELTLEEAAFGCEKDIEYERWIDCPTCEGKGYVGKMEKVTCHACEGTGRRVSGIFSFPRPCSVCKGRGFIIKNQCPACSGRGRVAMHSLLRVNVPPGTDEGDVLKVPGKGHTGERGGEAGDLYLRVSLKPHPIFKKVGKDLYMEAFISFPLAVLGGTTKIKTLEGSYQEVFLQPGTECGSTKRLQGLGYPIAGGRGDLIITFRIEVPKNVNSNIRALIEKLAKELGEEGIEYQSGVITKILSLLKL |
| 3859 | sp|Q5WV16|DNAJ\_LEGPL | MEQRDYYELLEVSRNASDAEIKKAYRRLAMKYHPDRNPGDTSAEEKFKEIQKAYNILSDKQKRAAYDQFGHAGVDPSMGGGPGGFGGFGGFGDVFEDIFENIFSGGRGQGRQSRGQRGADLQFNVQLTLEEAAIGKEVEITVPRHGTCTVCEGSGAKKGTSPKTCETCQGMGQVRIQQGFFSIQQTCPTCHGEGKIISDPCASCHGQGRVRESKKINVKIPAGVDNGDRVRLSGEGEAGVHGGGSGDLYVQISLKKHAIFERHENDLHCEVPISFATAALGGSIEVPTLEGRVTLKIPAETQTGKVFRLRSKGMKSVRGYGQGDLLCKVVVETPVNLSREQKELLNKLQDSLENAKGTHSPKTSSWFAGVKKFFEDMKF |
| 3860 | sp|Q1QRU1|DNAK\_NITHX | MGKVIGIDLGTTNSCVAVMDGKTPKVIENAEGMRTTPSIVAFSDDGERLVGQPAKRQAVTNPERTIFAVKRLIGRRYDDPTVEKDKHLVPYKIAKAGNGDAWVEVDGKTYSPSQISAFTLQKMKETAEAHLGQKVDQAVITVPAYFNDAQRQATKDAGKIAGLEVLRIINEPTAAALAYGLDKAKQGTIAVYDLGGGTFDVSILEIGDGVFEVKSTNGDTFLGGEDFDMRLVSYLADEFQKEQGINLRNDKLALQRLKEAAEKAKIELSSTTQTEINLPFITADQSGPKHLTMKLTRAKFEALVDDLVQKTIEPCRKALKDAGLTAGEIGEVVLVGGMTRMPKVQEVVKQLFGKEPHKGVNPDEVVAIGAAIQAGVLQGDVKDVLLLDVTPLSLGIETLGGVFTRIIDRNTTIPTKKSQVFSTAEDSQNAVTIRVFQGEREMAADNKILGQFDLMGIPPAPRGMPQIEVTFDIDANGIVNVSAKDKATGKEQQIRIQASGGLSEADIDKMVKDAEANAIEDKKRREAVDAKNHADSLVHSTEKALAEHGSKIEDSERRAIEDAVSDLKEALKGDDAEAIKAKTNTLAQASMKLGEAMYKQQAEADAAKDAAKDDVVDAEFTEVDDDKNKKSA |
| 3861 | sp|Q1C3L0|IBPA\_YERPA | MRNSDLAPLYRSAIGFDRLFNLLESGQNQSNGGYPPYNVELVDENNYRIAIAVAGFAEQELEITTQDNLLIVRGSHANEPAQRTYLYQGIAERNFERKFQLAEHIKIKGANLVNGLLYIDLERLVPESLKPRRIEIK |
| 3862 | sp|F4IS56|ILK1\_ARATH | MENITAQLKRGISRQFSTGSIRRTLSRQFTRQSSLDPRRTNMRFSFGRQSSLDPIRRSPDSSKSDDEPHMSVPENLDSTMQLLFMASKGDVRGIEELLDEGIDVNSIDLDGRTALHIAACEGHLGVVKALLSRRANIDARDRWGSTAAADAKYYGNLDVYNLLKARGAKVPKTRKTPMTVSNPREVPEYELNPLEVQVRKSDGISKGAYQVAKWNGTRVSVKILDKDSYSDPERINAFRHELTLLEKVRHPNVIQFVGAVTQNIPMMIVVEYNPKGDLSVYLQKKGRLSPSKALRFALDIARGMNYLHECKPDPIIHCDLKPKNILLDRGGQLKISGFGMIRLSKISQDKAKVANHKAHIDLSNYYIAPEVYKDEIFDLRVDAHSFGVILYEITEGVPVFHPRPPEEVARMMCLEGKRPVFKTKSRSYPPDIKELIEKCWHPEAGIRPTFSEIIIRLDKIVANCSKQGWWKDTFKFPWK |
| 3863 | sp|Q3Z2Y2|IRAM\_SHISS | MKWVVIDTVIQPTCGISFSAIWGDMKKIIWYQSTIFLPPGSIFTPVKLGIILKEKEYPITIYNIAPFNKNLWSLLKSSQECPPGESKITNKCLHNSCIIKICPYGLK |
| 3864 | sp|Q0SXN1|IRAD\_SHIF8 | MMRQSLQAVLPEISGNKTSLLRKSVCSDLLTLFNSPHSALPSLLVSGMPEWQVHNPSDKHLQSWYCRQLRSALLFHEPRIAALQVNLKEAYCHTLAISLEIMLYHDDEPLTFDLVWDNGGWRSATLENVS |
| 3865 | sp|Q55274|ISIA\_SYNY3 | MQTYGNDTVQYEWWAGNARFADQSGLFIAAHVAQAALTAFWAGAFTLFEISRFDPTQAMGDQGLILLPHLATLGWGVGDGGQIVDTYPYFVIGSIHLIASAVLGAGALFHTLRAPADLSTLKGQGKKFHFTWENPQQLGIILGHHLLFLGAGALLLAGKAMYWGGLYDATTQTVRLVSQPTLDPLVIYGYQTHFASISSLEDLVGGHIFVGFLLIGGGIWHILVPPLGWAKKVLLFSGEAILSYSLGGIALAGFVAAYFCAVNTLAYPPEFYGPPLAIKLGIFPYFADTVELPMHAHTSRAWLANAHFFLAFFFLQGHLWHALRALGFDFKRVEQAFDSLQT |
| 3866 | sp|Q83P77|IRAD\_SHIFL | MMRQSLQAVLPEISGNKTSLLRKSVCSDLLTLFNSPHSALPSLLVSGMPEWQVHNPSDKHLQSWYCRQLRSALLFHEPRIAALQVNLKEAYCHTLAISLEIMLYHDDEPLTFDLVWDNGGWRSATLENVS |
| 3867 | sp|Q8FIJ3|IRAM\_ECOL6 | MKWIVIDTVIQPSCGISFSVIWSKIKLIIWYQSDAFLPPESIFTLTHTGIMLNNKVLPVTIYNVVPFNKTFWNLIKNSQECPTNTDNVLNECFNNRCTLQICPYGLKQQSP |
| 3868 | sp|Q5N675|ISIA\_SYNP6 | MQTYNNPEVTYDWWAGNARFANLSGLFIAAHVAQAALIMFWAGAFTLYEISWLTADQSMGEQGLILLPHLATLGLGVGDGGQVTDTYPLFVVGAVHLIASAVLGAGALFHTFRAPSDLAAASGAAKRFHFDWNDPKQLGLILGHHLLFLGVGALLLVAKATTWGGLYDAASQTVRLVTEPTLNPAVIYGYQTHFASIDNLEDLVGGHVYVGVMLIAGGIWHILVPPFQWTKKVLIYSGEAILSYSLGGIALAGFVAAYFCAVNTLAYPVEFYGAPLEIKLGVTPYFADTVQLPFGAHTPRAWLSNAHFFLAFFCLQGHLWHALRAMGFDFRRVEKALSSVEA |
| 3869 | sp|P46518|LEA14\_GOSHI | MSQLLEKAKDFVVDKVANIKKPEASVSDVDLKHVSRECVEYGAKVSVSNPYSHSIPICEISYNFRSAGRGIASGTIPDPGSLKASDTTMLDVPVKVPYNILVSLVKDIGADWDIDYELELGLTIDLPIVGNFTIPLSQKGEIKLPTLSDIF |
| 3870 | sp|Q6GDK1|LDH2\_STAAR | MKTFGKKVVLIGDGSVGSSYAFAMVTQGVADEFVIIDIAKDKVKADVQDLNHGTVHSPSPVDVKAGEYEDCKDADLVVITAGAPQKPGETRLQLVEKNTKIMKSIVKSVMDSGFDGYFLIAANPVDILTRFVKEYTGLPAERVIGSGTVLDSARLQYLISQELGVAPSSVDASIIGEHGDTELAVWSQANVAGISVYDTLKEQTGSEAKAEEIYVNTRDAAYEIIQAKGSTYYGIALALMRISKAILNNENNVLNVSIQLDGQYGGHKGVYLGVPTLVNQHGAVKIYEMPLSAEEQALFDKSVKTLEDTFDSIKYLLED |
| 3871 | sp|P0ACV4|LAPA\_ECOLI | MKYLLIFLLVLAIFVISVTLGAQNDQQVTFNYLLAQGEYRISTLLAVLFAAGFAIGWLICGLFWLRVRVSLARAERKIKRLENQLSPATDVAVVPHSSAAKE |
| 3872 | sp|A7NM80|LON\_ROSCS | MSTPLPTQDPPDIPEVLPILPLNNVVLFPGMFLPLVVSGDTWVKLVDEAALATKMVGVFMRTQPGEGFDPLALARTGAVALIVRMLRLPHGAVQILVQGQARIQIRQLIVTEPYPQARVAIHRDPAVLSVEVSGLARAALAAFQQIIQLSPTLPDELAIVAANTAQPGMLADLIAANLNLKPEDQQLVLDTLDVQERLRQVLSFLEREREILTIGRKAQEEMSKSQREYVLRQQLEAIKRELGETDDHAAEIAELRRRLEAANLPEEARKEAEREISRLERMPPGAAEYVVARTYLDWLLDLPWNVSTEDNLDLTQARQVLDEDHYDLERIKERIIEYLAVRKLRLEQDASGSARGPILCFVGPPGVGKTSLGTSIARALGRKFVRVALGGVRDEAEIRGHRRTYIGALPGRIIQGINRAGSNNPVFMLDEVDKLSVGFQGDPAAALLEVLDPEQNVAFVDRYLDVPFDLSRALFICTANRSDTIPPALLDRMELLELAGYTEMEKLEICRRYLIQRQRNEQGLAERAPTITEAALRRLIREYTHEAGVRDLERRIGAIYRKMATRAAEGQPLPDQVDAPDLDDLLGPPRFRSETLLGEDEVGVVTGLAWTPTGGDVLFVEASVVPGNGQLTLTGQLGDVMKESARAALTYARSRARALNIPTDFAQICDIHIHVPAGAVPKDGPSAGITMASALISALTDRRAYKHVAMTGEITLRGKVLPIGGVKEKVLAAQRAGVRTVLLPKANAPDLRELPEETRQQIDIVLVEHMDEVLPRVLHPKSESVTLAEPAPPDGAGTVQAT |
| 3873 | sp|Q1MS21|LON\_LAWIP | MTFDTNDDSIAKNSLAPYNQETEQQQEEGAMKINAGTEDDVQPQEIPSSIPILPLRDVVVFNYMIVPLFVGRERSIQAVESATTHGQHIFLCAQKDSQIENPTEEDLYSVGTVALILRLLKMPDGRLKALVQGISRARCLTIHNEDGYLTATVELLQEPQPTVKPTEQEALLRYAREQCEKILALRGIPTGEIMGVLSNVNEPGRLADLIAANLRLKTEEAQEILQCLEPIDRLHLVITHLTHEAEVATMQVKIQTSAREGMDKAQKDYFLREQLKAIRKELGDAIDADEEIEEVSSALNKAGLPAEVRKEVDKQLRRLSTMHADSAEAGVIRTYLDWIAELPWKKTSKDQLDIHKAKTILNEDHYGLVKIKDRILEYLSVRKLNPKSKGPILCFAGPPGVGKTSLGRSIAKSLGRKFQRISLGGMHDEAEIRGHRRTYIGAMPGRLIQAMKQAGTKNPVILLDEIDKLGNDFRGDPSSALLEALDPEQNHNFSDHYLNVPFDLSKVLFLCTANHLEHIPAALKDRLEIISLPGYTQQEKLAIARKYILPKQLKENGLKENELIISDTCLEKIIREYTREAGLRNMEREIGSLCRKVARKKAEGKKPPFRITTNQIEKFLGIPRFIDDDTEKTLPPGVALGLAWTPAGGEILYIEVSTVKGKGNLLLTGQLGDVMKESAQAALSYARSKASSLNISPDFAKSMDIHIHIPAGATPKDGPSAGVTLTTALISALTGKSVRGDLCMTGEITLRGRVLPVGGIKEKVLAGVARGLGHVIIPTKNTKDLEEIPQELKKKIKIHTVSHIDEVLPLAFSETIPVVTKKKQTKQPTS |
| 3874 | sp|B2RII6|LON\_PORG3 | MIDRKYIRLGEDDEDDGFPVFFPVLSVCEEDEDFKVKEDHMQEEMPILALRNMILFPGVAMPIMVGREKSLKLIRYVEKKGVYFGAVSQRDMDVEEPDRADLYDVGVVAEIIRVLEMPDGTTTAIVQGRQRFALQEITATEPFMKGRVKLLPDILPGKNKDHEFEALVSTIQDMSLKMMELMVERPPRELILSMRRNKNPMYQINFASANISTSIAVKQELLEISKMKDRGYRLLYLLHKELQVMELKASIQMKTREEMDKQQKEYFLQQQIKTIQEELGGNINDIEVQELRTKATTMKWSSEVAETFEKELRKLERLHPQSPDYSVQMQYVQTIISLPWGVFSKDNFNLKRAQSVLDRDHFGLEKVKERIIEHLAVLKMKGDMKSPIICLYGPPGVGKTSLGKSIAESLGRKYVRISLGGLHDEAEIRGHRRTYIGAMCGRIIQSLQRAGTSNPVFVLDEIDKIDSDYKGDPSSALLEVLDPEQNNAFHDNYLDIDFDLSHVLFIATANSLSSISRPLLDRMELIDVSGYIIEEKVEIAARHLIPKQLVEHGFRKNDIKFSKKTIEKLIDDYTRESGVRTLEKQIAAVIRKITKEAAMNVVHTTKVEPSDLVTFLGAPRYTRDRYQGNGDAGVVIGLAWTSVGGEILFIETSLHRGREPKLTLTGNLGDVMKESAVIALDYIRAHSDELGISQEIFNNWQVHVHVPEGAIPKDGPSAGITMVTSLVSALTRRKVRAGIAMTGEITLRGKVLPVGGIKEKILAAKRSGITEIILCEENRKDIEEINDIYLKGLKFHYVSNINEVLKEALLEEKVIDTTDIYSFGKKTEEEKAEKVEKTEKKQRKK |
| 3875 | sp|A8F811|LON\_PSELT | MSTKFEKLEKLARESFQSPEVPETLPLIHLRNGMIIFPQTVVPVHVAREKTLLALEQSIESYQQFVFVTSQKDPSVEEPSFDQLYEIGTVSKVLQVVQLPDGSFRVLLEGLERARAYEVVQDNPFLVKLEILKVNYRKTKKLEALIRSVRESFAKYAYYTQRYSQETLSAMSEISDANRLADFVASLLPLQLKQRQSLLEQLKPAKRLEMILEILSHENEILEIERELDTKVKKRIEENQKEFFLREKLKAITEELGEKDTEADQLKARLQKLKLPEHAKQKATLEIERLEKMSPYSAEATVIRTYLDWLFNLPWDNSTEDRQDISQAEKILQASHYGLKEAKERILEFLAVRKRSNSVKAPILCFVGPPGVGKTSLARAVSQALNRKFAHMSLGGLRDEAEIKGHRRTYVGAMPGRILQLIRTAQSKNPVLLLDEIDKMAVSFQGDPAAALLEVLDPEQNKEFVDHYLEIPFDLSNVLFITTANVTHTIPPALLDRMEIIELEGYTDYEKSIIARQYIIPKLMGENALNEATFKITQGAIKKIIHTYTREAGVRQLTRMLQRLMRKSALKIEQGAKSVVIKSKDLEHFLGPQPVQNDIMLSKPEIGAVHGLAWTEYGGVVMVVESLLMPGKGDLILTGRLGEVMRESARIALSVARSFCGQDCKEKFQQSDIHINLPEGAVPKDGPSAGITMTVAMISSVLGKPVRNDTAMTGEITLRGKILAVGGVKEKILAAHRHGIKRILLPKTNEKDLKRIPPQVKDKMEFIFVEDIEKAVEKSCS |
| 3876 | sp|P77810|LON\_AZOBR | MKEAQSMFEIPRGALYPVPPLRDIVVFPHMIVPLFVGREKSVRALEDVMKDDKQILLVTQKNAAQDDPTPADIYSVGTVGTVLQLLKLPDGTVKVLVEGGQRASITKFAENEDFFQAHADLVEEKVGESQELEALGRAVVSQFEQYIKLNKKIPPEVLVSINQIEEPGKLADTVASHLALKIPEKQQLLECATVSERLERVYAFMEGEIGVLQVEKRIRNRVKRQMEKTQREYYLNEQLKAIQKELGETEDGRDESAELEEKINKTRFSKEARDKALAELKKLRSMSPMSAEATVVRNYLDWMLSIPWKKRTKVKKDLKLAQKILDADHYGLEKVKERILEYLRVQNRMNKVKGPIQSLVGPPGVGKTSLGKSIAKSTGRNFVRMSLGGVRDEAEVRGHRRTYIGSMPGKVIQGMKKAKSSNPLFLLDEIDKLGADWRGDPSSALLEVLDPEQNGTFNDHYLEVDYDLSDVMFVCTANTMRMPQPLLDRMEIIRVAGYTEDEKVEISKRHLIEKQVEANGLKKGEFAISDDALRDLIRYYTREAGVRSLEREIANLCRKAVKEILMKGSAGAKVSVTRRNLDKYAGVRRFHFGEAELEDLVGVTTGLAWTEVGGELLSIEAVSLPGKGRVTTTGKLGDVMKESVQAAESYVKSRATAFGIKPTLFEKRDIHVHVPEGATPKDGPSAGVAMITSIVSVLTGIAVRKDVAMTGEITLRGRVLPIGGLKEKLLAALRGGLKHVLIPKDNEKDLAEIPDNVKRGLEIIPVSTVDDVLKHALVREVEPIEWKEPEAVEPAVAKPQTDGGGEVLRH |
| 3877 | sp|B8J198|LON\_DESDA | MADYNDKNYLLHMSGPDSDTGPGIENEDPRAVENPGHDLAESEGGLAAAMQSIPDTLPILPVRDVVIFNYMILPLFIGREKSVQAVEAALKSGRHLLVCAQKEEATEDPGPEDIYQVGTVVQVMRMLKMPDSRVKILVQGVSRARVREFSQVEPFLEAHIETLPEATPKVDATVEALLRSVREQSEKVLSLRGLSSPDVLAVLQGVDDPGRLADLIAANMRMKTADAQQILETEDPLDRLMLVNTQLQREVEVATVQARIQSSAREGMDKAQKDYFLREQLKAIRSELGDKDDEGEEELESLRAALDKAGMPKDVRKEADKQLRRLAGMHADSSEANVVRTYLDWLAELPWKKLSRDRLDIAHAKQILDEDHCGLEKIKDRILEFLSVRKLNPQSKGPILCFAGPPGVGKTSLGRSVARALGRKFQRLSLGGMHDEAEIRGHRRTYIGAMPGRIIQSLKQAGTRNPVIVLDEVDKLGADFRGDPSSALLEVLDPEQNHTFSDHYLNVPFDLSKVMFLCTANHLETIPAPLRDRMEVITLPGYTMQEKAEIARKHLLPKKIKENGLQEKDVTLDDAALEKVIREYTREAGLRNLERELSSICRKLARRKAEGKKGPFRVSTADVEKLLGAPRFIEDEKEKKLMPGMALGLAWTPAGGEVLTVEATVMKGKGGLTLTGQLGDVMKESAQAALSYIRSRAEELGVDPSFVSEYDIHVHVPAGATPKDGPSAGVTLTTALISALNGHRVRADLCMTGEITLQGRVLPVGGIKEKILAGVARGLKHVVIPWQNTKDLEDVPKELLKRITVHPVHHYDELLPLVFEGKSGKGGVSGAGQAGDKGGKSKAAAGKKDVVAARPAKPAAPARRRKDKTEDELPTAEAGA |
| 3878 | sp|Q3T0N5|MK13\_BOVIN | MSFTRKKGFYKQDVNKTAWELPKTYVSLTHIGSGAYGSVCSAIDKRSGEKVAIKKLSRPFQSEIFAKRAYRELLLLKHMQHENVIGLLDVFTPASSLRNFHDFYLVMPFMQTDLQKIMGMEFSEDKIQYLVYQMLKGLKYIHSAGVVHRDLKPGNLAVNEDCELKILDFGLARHTDVEMTGYVVTRWYRAPEVILSWMHYNQTVDIWSVGCIMAEMLTGKTLFKGKDYLDQLTQILKVTGVPGAEFVQKLNDKAAKSYIQSLPQSPKKDFSQLFPRASPQATDLLEKMLELDVDKRLTASQALAHPFFEPFRDPEEETEAQQPLEDSLEREKLIVDEWKQHIYKEIVNFSPIARKDSRRRSGMKLQ |
| 3879 | sp|P32081|CSPB\_BACSU | MLEGKVKWFNSEKGFGFIEVEGQDDVFVHFSAIQGEGFKTLEEGQAVSFEIVEGNRGPQAANVTKEA |
| 3880 | sp|Q2FJB8|CTSR\_STAA3 | MHNMSDIIEQYIKRLFEESNEDVVEIQRANIAQRFDCVPSQLNYVIKTRFTNEHGYEIESKRGGGGYIRITKIENKDATGYINHLLQLIGPSISQQQAYYIIDGLLDKMLINEREAKMIQAVIDRETLSMDMVSRDIIRANILKRLLPVINYY |
| 3881 | sp|Q62857|DDIT3\_RAT | MAAESLPFAFETVSSWELEAWYEDLQEVLSSDEIGGTYISSPGNEEEESKTFTTLDPASLAWLTEEPGPAEVTSTSQSPRSPDSSQSSMAQEEEEEDQGRTRKRKQSGQCAARAGKQRMKEKEQENERKVAQLAEENERLKLEIERLTREVETTRRALIDRMVSLHQA |
| 3882 | sp|P18899|DDR48\_YEAST | MGLFDKVKQFANSNNNNNDSGNNNQGDYVTKAENMIGEDRVNQFKSKIGEDRFDKMESKVRQQFSNTSINDNDSNNNDSYGSNNNDSYGSNNNDSYGSNNNDSYGSNNNDSYGSNNDDSYGSSNKKKSSYGSNNDDSYGSSNNNDSYGSNNNDSYGSNNNDSYGSNNDDSYGSSNKNKSSYGSNNDDSYGSNNDDSYGSSNKKKSSYGSSNNDSYGSNNDDSYGSNNNDSYGSNNDDSYGSSNKKKSSYGSNNDDSYGSSNNNDSYGSNNDDSYGSSNKNKSSYGSSSNDDSYGSSNNDDSYGSSNKKKSSYGSNNDDSYGSNNDDSYGSSNKKKSSYGSSNNDSYGSNNDDSYGSSNKKKSSYGSNNDDSYGSSNNNDSYGSNNDDSYGSSNRNKNSYGSSNYGSSNNDDSYGSSNRGGRNQYGGDDDY |
| 3883 | sp|Q2NVZ0|DNAJ\_SODGM | MAKSDYYEILGVSRDAEEREIKKAYKRQAMKFHPDRNRGNAEAEAKFKEIKEAYEVLTDAQKRAAYDQYGHAAFEQGGMGGGGASGADFSDIFGDVFGDIFGGGRRQRVSRGADLRYNMELSLEEAVRGVTREIRIPTLEECDVCHGSGAKPGTSAVTCPTCHGQGQVQMRQGFFAIQQTCPTCQGQGKIIKDPCTKCHGHGRVEKSKTLSVKIPAGVDTGDRIRLSGEGEVGEHGAAAGDLYVQVQVCKHPIFEREENNLYCEVPINFAMAALGGEIEVPTLDGRVKLKVPAETQTGKLFRMRGKGVKSVRGGSQGDLLCRVVVETPVKLNERQKQLLRELEESFGGPSGDQNSPRSKSFLDGVKKFFDDLTR |
| 3884 | sp|Q1AXX6|DNAK\_RUBXD | MGKSIGIDLGTTNSCVAVLEGGDPVVIPNAEGERTTPSVVAFDRKSGERLVGQLARRQAVTNPERTVYSIKRFMGRRYNDVKQEAERVGYQVVPGPHGDVRVRLGDKDYSPPEISAMILQKLKRDAEDYLGEEVTDAVITVPAYFEDAQRQATKDAGRIAGLNVKRIINEPTAAALAYGLDKENDQTILVFDLGGGTFDVSILELGDGVFEVKATSGNNHLGGDDFDAKVVEWIVEEFKKAEGIDLSRDKMAMQRLVEAAEKAKKELSSTTSTNINLPFITADANGPKHLDLTLTRAQFNKLTADLVEATAGPVRQAMQDAGLKPGDVDQVILVGGSTRIPAVQEKVKELTGKEPHKGINPDEVVAIGAAIQAGVLAGEVKDVLLLDVTPLSLGIETKGGVFTKLIERNTTIPTRKSEIFTTAEDNQQSVEIKVYQGEREIAAHNKLIGNFQLVGIPPAPRGVPQIEVTFDIDANGILNVGAKDLGTGKEQKITITASSGLSDQEIEQMVRDAEAHAEEDRRKREEAEIRNNADNLVYSVERSLKEVDGKVDSSTREEIEKAIKEAKEALAGDDIEEIKRKQEALMSASHKLSQVLYQQAQEQQQSGSSGGSSDEDVVEDAEIVDEEDEEKRDDNR |
| 3885 | sp|Q6MNF8|DNAK\_BDEBA | MGKIIGIDLGTTNSCVAIMEGGEPKVLVNEEGARTTPSVVAYTKDGDRLVGQIAKRQAVTNPENTIYSAKRFIGRRFEEIQEEIKLVPYTVVAKGNDCAFKVQGKTASPEEIGAAVLAKLKKVAEDYLGEPVTEAVVTVPAYFNDAQRQATKDAGRIAGLEVKRIINEPTAAALAYGMDKKKDEKIVIYDFGGGTFDVSILEVGDGVVEVRATNGDTHLGGDNFDTVILEWLITEFKKDQAIDLKNDKMALQRLKEAAEKAKIELSSAQETEINLPFITADQSGPKHLQTRLSRAKFDQMTEDLVKRSMEPCRKALADSGLKASEIDEVVLVGGSTRIPAIQKAVKDFFGKEPNRSVNPDEVVAIGAAVQGGVLAGDVKDVLLLDVTPLSLGIETLGGVMTTLIERNTAIPSKKSQVFSTAADNQPAVDIHVLQGERKMAGDNKTLGRFELVGIPPAPRGVPQVEVTFDIDANGILHVSAKDMSSGKSQQIKITAQSGMSEDEIKRAVADAEGHAEEDKRKAEAATQRNNLDNLVYQTEKLIKDSGAQLPESEVKSANEAVAEAKKILENKSASGDELKGAFERLQNLTHKLTSELYKKQGAQPGAEGQQADAAEGGEASANKGGDDVIDADYKDVN |
| 3886 | sp|P71331|DNAK\_AGGAC | MGKIVGIDLGTTNSCVAVMEGEKPRVIENAEGDRTTPSIIAYTNDNETLVGQPAKRQAVTNPKNTLFAIKRLIGRRFEDEEVKRDIDIMPFAITKADNGDAWVEVKGEKLAPPQISAEVLKKMKKAAEDYLGEPVTEAVITVPAYFNDAQRQATKDAGRIAGLDVKRIINEPTAAALAYGLDKGTGNKTIAVYDLGGGTFDLSIIEIDEVGGEKTFEVLATNGDTHLGGEDFDNRIINYLVDEFKKEQGIDLRNDPLAMQRLKEAAEKAKIELSSAQQTDVNLPYITADATGPKHLNIKLTRAKLESLVEDLVAKSLEPVRIALKDAGKSPSEIDDVILVGGQTRMPLVQQEVEKFFGKAPRKDVNPDEAVAIGAAVQGGVLAGDVKDVLLLDVTPLSLGIETMGGVMTTLIEKNTTIPTKKSQVFSTAEDNQSAVTIHVLQGERKQASANKSLGQFNLEGINPVPRGMPQIEVTFDIDADGIIHVSAKDKGTGKEQQITIKSSSGLSDEEIQQMVRDAEANAESDRKFEELVQARNQADHLIHSTRKQLDEAGDKVPAADRGTIESALSDLEKAAKGEDKAVIEAKIKALAEVAQKLAQTAQPHGDPQQAQSNSKPNDDVVDAEFEEVKDNK |
| 3887 | sp|P83709|DNAK\_DELAC | KIIGIDLGTTNSXVA |
| 3888 | sp|Q6MB26|DNAK\_PARUW | MTMSQSQTKKGRIIGIDLGTTNSCVAVMEGGAPKVIASAEGTRTTPSVVAYKGNERLVGIPAKRQAVTNPENTITSSKRFIGRKYQEVLSEIKTVPYKVTNNNNGDAVFEIQGKIVTPEEIAAQILIKMKETAEAYLGEKITEAVITVPAYFNDSQRQSTKDAGRIAGLDVKRIIPEPTAAALAYGLDKENADKKIAVFDLGGGTFDISVLEIGDGVFEVLSTSGDTHLGGDDFDNAILNWMLETFKQEQGIDLRNDKMALQRLRDAAEKAKIELSGVQQTEINQPFITMDASGPKHLTMTLTRSKLESLTHDLIERTREPCLKALKDSGLNKDDISEVILVGGMSRMPAVQEVVKSIFGKEGHKGVNPDEVVAVGAAIQGGVLTGVVKDVLLLDVTPLTLGIETLGGVMTPLVERNTTIPTQKKQIFSTAADNQPAVTIRVLQGERKMANDNKEIGRFDLADIPPSPRGTPQIEVAFDIDADGILHVSAKDLSSGKEQKIRIEAQSGLQEEEIKRMVRDAEEHAEEDKKRKEEVEIRNEADSLAFRAQKALDEYKDKVPQQIADDISNKIEAVKKALETTDIARIRSAKDELERQMQQIGEVMSKAAGQSETQSTGPGSYQESSNQSSQHQTNNNKPDDIEEAEVEILDDKKP |
| 3889 | sp|Q826F6|DNAK2\_STRAW | MAKAVGIDLGTTNSVIAVWEGGEPSVVPNSEGNRTTPSVVAFTDTGERLVGQLARRQAILNPKGTIYSAKRFIGRHFDEISDEARAVTYDVVEGDGGAARFKVRDKLYAPEEISAQVLRKLADDASKQLGERVTEAVITVPAYFNDAQRTATKDAGRIAGLEVLRIINEPTAAALAYGMDKKEHETVLVFDLGGGTFDVSILDVGDGVVEVRSTAGDSHLGGDDFDRRLVDYLADDFQQENGIDLRKDPQALQRLFEAAEKAKTELSSVTQTQVSLPFITADASGPKHLTDTVMRSTFEQITSDLVERCLGPVQQAMADAKVGESDIDEVILVGGSTRIPAVQALVRRLTGGKDPNMSVNPDEVVALGAAIQAGVLKGEVKDVLLLDVTPLSLGVETRGGVMTKIIERNTTIPVRRSETFSTAEDNQPAVDVVVLQGERERAADNRVLGRFQLTDIRPAPRGEPQVEVTFDIDANGILNVTARDKDTGKEQGITISESSNLDRSEVERMVQEAERNQGQDQALREAVDARNELDAVAYQVEKRLAELGDAAPAHEKARAEMLVSDARAAVKEEAGVERVRPLTSELQQVLAGLAAHQGAATADGGPAQHAATGGPTSGGGGGDDVIDAEFDKG |
| 3890 | sp|Q6KHF9|DNAJ\_MYCMO | MKKDYYEILGLTKSASKDEIKKAYRTLAKTYHPDVNKETNAEEKFKEITEAYEILNDDVKREQYNQFGHAAFDPNAGGFGGQNPFTNAEGFSGFSDFSGFGSIFTDFFGGFGNSQRANPNRAQRGEDRHAVIKISFIDSVLGKEIVEPLEKFETCNTCNGSGAKSQSDIITCTQCSGMGEQIKITKTFLGQMQQNVICSKCNGIGKEIVEKCLICKGKTHTKTTKNITIKIPAGIQNGQTLRVENYGNAGLNGGSNGNLILSIKVSPHKHFVRKNNDIILRLPVSIKSVIGSEKVEVPTPYGFEIIKIDPNIKTGDELIIKNKGIITKYESGKMIVIFEIFIPKLTSFEKKEISTILEKNADKFYEKWIKEFE |
| 3891 | sp|P0C922|DNAK\_BORBU | MGKIIGIDLGTTNSCVAIMEHGKPVVIQNSEGGRTTPSIVAYTNKGERLVGQVAKNQMVTNPENTIYSIKRFMGRRFEEVASEIKMVPYKIEKGLNGDARVNISNIKKQMSPPEISAATLTKMKETAEAYLGEKVTEAVITVPAYFNDAQRQATKDAGKIAGLEVKRIVNEPTAAALAYGIEKKHEEIVAVYDLGGGTFDISILELGDGVFEVKSTNGDTHLGGDNFDDEIIKHLISEFKKESAIDLSNDKMALQRLKEAAEKAKIELSGAQEASINLPFITADANGPKHLQYTLTRAKFEQMVDHLVQKTKEPCLKAIKDAGLKASDINEVILVGGSTRIPAIQKIVKDIFGQDPNKGVNPDEAVAIGAAIQGGILTGETKDMVLLDVTPLSLGIETLGGVMTKLIERNTTIPTKKSQVFSTAADNQTSVDIKVLQGEREMAAQNRILGNFILDGIPAAPRGVPQIEVSFDIDANGIVHVSAKDMGTGKEQKIRIESSSGLSESEIDRMVKDAEAHAEEDKKLKENIEAKNTANSLIYQTEKSLKEYSEKISSEDKEAIESKIKELKESLEKEDISLIKSRTEELQKASYKIAEMMYKDSSQQNANSQQENGPQSNTSEEGKEADYEVVDEDKK |
| 3892 | sp|Q72DW8|DNAK\_DESVH | MGKIIGIDLGTTNSCVYVMEGKDPKCITNPEGGRTTPSVVAFTDKERLVGDIAKRQAVTNPERTVFAVKRLMGRRGDAPEVGRWKEHSPYRIVAGANGDAAVEVQGRPYSAPEISAMILGKLKADAEAYLGETVTEAVITVPAYFNDAQRQATKDAGRIAGLDVKRIINEPTAASLAYGFDRKANEKIAVFDLGGGTFDISILEVGDNVVEVRATNGDTFLGGEDFDQRIISYLVDEFRRENGGIDLARDRMALQRLKEAAEKAKKDLSTSMETEVNLPFITADQTGPKHLMMKLSRAKLEKLVEDLVERTVEPCRKALADAGLTAAQIDEVVLVGGMTRMPLVQKRVSEFFGKEPNRSVNPDEVVAMGAAIQGGILAGDVKDVLLLDVTPLSLGIETLGGVFTRLIERNTTIPTRKSQTFTTAADNQPSVSIHVLQGERPMASDNMTLGRFELTGIPPAMRGVPQIEVSFDIDANGIVNVAAKDLGTGKEQSIRITASSGLSEDEIQRLVKEAEAHADDDKKKQELIEARNQADGLIYGTEKSIRDLGDKLDAALKADIETKVTALRGLLESEDVDAIKKASDELAQASHKLAEQLYKQQAQAGGPEAGAQPEGDAGARKQDDDVVDADYTEVKK |
| 3893 | sp|A9WQR3|DNAK\_RENSM | MSRAVGIDLGTTNSVVSVLEGGEPTVIANAEGGRTTPSVVAFSKSGEVLVGEIAKRQAVNNIDRTIASVKRHMGTDWTIDIDDKKYTAQEISARTLMKLKNDAESYLGEKVTDAVITVPAYFNDAERQATKEAGEIAGLNVLRIVNEPTAAALAYGLDKGKEDELILVFDLGGGTFDVSLLEVGKDDDGFSTIQVRATSGDNRLGGDDWDQRVVDYLLNQLKVKGIDLSKDKIALQRLREAAEQAKKELSSATSTNISLQYLSVTPDGPVHLDEQLTRAKFQELTSDLLERTKKPFNDVIAEAGIKVSDIDHIVLVGGSTRMPAVTELVKQLAGGKDPNKGVNPDEVVAVGAALQAGVLKGERKDVLLIDVTPLSLGIETKGGVMTKLIERNTAIPTKRSETFTTADDNQPSVAIQVFQGEREFTRDNKPLGTFELTGIAPAQRGVPQVEVTFDIDANGIVHVSAKDKGTGKEQSMTITGGSSLSKEDIERMVADAEAHAAEDKTRREQADVRNSAEQLAYSVDKILSENDDKLPEEVKTEVKADVESLKAALAGTDEYAVKAASEKLQASQTKLGEAIYASTQAEGAAPAGDAAGAPAGEAKPEEDIVDAEIVDEEPKNEKK |
| 3894 | sp|B8CKF3|DNAK\_SHEPW | MGRIIGIDLGTTNSCVAVLDGDKARVIENAEGDRTTPSIIAYTADETLVGQPAKRQAVTNPTNTVFAIKRLIGRRFKDDEVQRDVDIMPFKIIGADNGDAWVEAQGKKMAPPQISAEILKKMKKTAEDYLGEEVTEAVITVPAYFNDSQRQATKDAGRIAGLEVKRIINEPTAAALAYGIDKKQGDNIVAVYDLGGGTFDISIIEIDSVDGEQTFEVLATNGDTHLGGEDFDNRLINYLADEFKKEQSLDLRNDPLAMQRLKEAAEKAKIELSSTTQTEVNLPYITADATGPKHLVVKITRAKLESLVEDLITRSLEPLKVALADADLSVSDINEVILVGGQTRMPKVREEVSSFFGKELRQDVNPDEAVAIGAAVQAGVLSGDVKDVLLLDVTPLSLGIETMGSVMTKLIEKNTTIPTKASQTFSTADDNQAAVTIHVLQGERKQSSGNKSLGQFNLEGIEPAPRGMPQIEVAFDIDADGILHVSATDKKTGKAQNITIKASSGLSDEEVEAMVRDAEAHADEDAKFEELVTARNQADGMVHATKKQIEEAGEELPADEKEKIEAAMANVDTATKGSDKEAIEKATQELMEASSKLMEIAQAKAQAQQGQPEGAGEAQQDAHAADDVVDAEFEEVKDDKK |
| 3895 | sp|Q730M1|DNAK\_BACC1 | MSKIIGIDLGTTNSCVAVMEGGEPKVIPNPEGNRTTPSVVAFKNEERQVGEVAKRQAITNPNTIMSVKRHMGTDYKVEIEGKEYTPQEISAIILQNLKASAEAYLGETVTKAVITVPAYFNDAERQATKDAGRIAGLEVERIINEPTAAALAYGLEKQDEEQKILVYDLGGGTFDVSILELADGTFEVISTAGDNRLGGDDFDQVIIDHLVAEFKKENNIDLSQDKMALQRLKDAAEKAKKDLSGVTQTQISLPFISAGAAXPLHLELTLTRAKFEELSANLVERTLEPTRRALKDAGLSASELDRVILVGGSTRIPAVQEAIKRETGKEPYKGVNPDEVVALGAAVQGGVLTGDVEGVLLLDVTPLSLGIETMGGVFTKLIERNTTIPTSKSQVFSTAADNQPAVDIHVLQGERPMSADNKTLGRFQLTDIPPAPRGIPQIEVTFDIDANGIVNVRAKDLGTSKEQAITIQSSSGLSDEEVDRMVKEAEANADADQKRKEEVELRNEADQLVFQTDKVVKDLEGKVDAAEVAKATEAKEALQAAIEKNELEEIRAKKDALQEIVQQLTVKLYEQAQAAAGQAEGAQGAQDAGAKKDNVVDAEFEEVKEDK |
| 3896 | sp|Q6G8Y8|DNAJ\_STAAS | MAKRDYYEVLGISKDASKDEIKKAYRKLSKKYHPDINKEEGADEKFKEISEAYEVLSDDNKRASYDQFGHDGPQGFGGQGFNGSDFGGFSGFGGGGFEDIFSSFFGGGRQRDPNAPQKGDDLQYTMTLTFEEAVFGTTKEISIRKDVTCETCHGDGAKPGTSKKTCSYCNGAGHVAVEQNTILGRVRTEQVCPKCNGSGQEFEEACPTCHGKGTENKTVKLEVKVPEGVDNEQQIRLAGEGSPGVNGGPAGDLYVVFRVKPSETFKRDGDDIYYKLNVSFPQAALGDEIKIPTLNNEVMLTIPAGTQTGKQFRLKEKGIKNVHGYGYGDLYVDIKVVTPTKLTDRQKELMKEFAQLNGEEINEQPSNFKDRAKRFFKGE |
| 3897 | sp|C0QGP6|DNAK\_DESAH | MGKIIGIDLGTTNSCVAVMEAGEPKVITNSEGNRTTPSVVALTEGGDRLVGQTAKRQAITNPENTVFGVKRLIGRKFDSPQIQGDKKVLPYKIEASANGDTRINLRGKQHSPAEISSFILANIKKTAEDYLGEEVTEAVITVPAYFNDSQRQATKDAGKIAGLTVKRIINEPTAASLAYGLDKKGEEKIVVFDLGGGTFDVSVLEIGDGVFEVKSTNGDTHLGGEDFDLRIIDYIADEFKKSQGIDIRGDKMALQRLKEAAEKAKMELSSAVETDINLPFITADASGPKHLDVKLTRAKLESLVADLLDNLVAPCKTALKDAGLTSSDINEVVLVGGMTRMPAVQERVEKIFSKKPHKGVNPDEVVAMGAAIQAGVLQGDVHDVLLLDVTPLSLGIETLGGVMTKLIDKNTTIPTKKSQVFSTAADSQPAVSIHVLQGEREMAAGNKTLGQFELTDLPPAPRGVPQIEVTFDIDANGIVHVAAKDKATGKEQSIRITAASGLSEEEIKKMVNDAELHADEDKKKHELVDAKNTAESLIHQTEKTLKEHGDKVDAATKTAIEAACEELKKVKEGTDAAIIKEKSEALTQASHKLAEAMYQQAAQESGQTEGAAQDPKGAAQDDDVVDADFEEVKDHKK |
| 3898 | sp|B2SGV8|DNAK\_FRATM | MGKIIGIDLGTTNSCLAIMDGKTAKVIENAEGHRTTPSVVAYTDSGEILVGQAAKRQAVTNPDNTFFAIKRLIGRKYDDKAVQEDIKKKVPYAVIKADNGDAWVATKEGKKMAPPQVSAEVLRKMKKTAEDYLGEPVTEAVITVPAYFNDSQRQATKDAGKIAGLEVKRIINEPTAAALAYGVDSKKGEQTVAVYDLGGGTFDISIIEIADVDGDNQIEVLSTNGDTFLGGEDFDLALMNYLIDEFKKEQGIDLHNDKLALQRVREAAEKAKVELSSAQQTDVNLPYITADATGPKHLNIKVTRAKFESLVSDLVMRSLEPCKKALEDAGLSKSDITEVLLVGGQTRMPLVQEKVKEFFGKEPRKDMNPDEAVAVGAAIQGGVLAGDVKDVLLLDVTPLSLGIETMGGVMTKLIERNTTIPTKKSQVFSTAEDNQPAVTIHVLQGEREMASANKSLGRFDLADIPPAPRGMPQIEVTFDIDANGILNVSAKDKATGKEQNIVIKSSSGLSEEDIEKMVQDAEANAEADKKFHDLVTARNTADNLIHSSRKAIQELGEKVTAAEKEKIEEACKELEAATKGDDKQAIEAKTKALEEAFAPIAQKAYAEQAQAAGAQGGAKAEEPKKEEDVVDADFEDVEDDKK |
| 3899 | sp|B2G6W3|DNAK\_LACRJ | MASNKIIGIDLGTTNSAVAVMEGNEPKIITNPEGSRTTPSVVSFKNGETQVGEVAKRQAITNPNTISSIKSHMGEAGYTVEVDGKKYTPQEISAMILQYLKKYAEDYIGDTVTQAVITVPAYFNDAQRQATKDAGKIAGLDVKRIINEPTASSLAYGLDKKDKDEKILVYDLGGGTFDVSILELGDGVFQVLSTNGDTHLGGDDFDQKIMDWLIDGFKEEHGVDLSQDKMALQRLKDAAEKAKKDLSGVQEAQISLPFISAGENGPLHLEKTLSRAQFNQLTNDLVERTKQPVLNALKDADLTFDDIDEVILNGGSTRIPAVQEMVKELTGKEPNHSINPDEAVALGAAIQGGVLTGDVKDVVLLDVTPLSLGIETMGGVFTKLIDRNTTIPTSKSQIFSTAADNQPAVDIHVLQGERPMAADNKTLGNFQLTDIPAAPRGVPQIKVTFDIDKNGIVNVSAEDQGTHKKQNITIKSNSGLSDEEIERMKKDAEEHAEADKKKKEEVDLKNEVDQELFQVDKTLKEVKGKVPEDDIKKAESARDELKKAKESGNLDEMKAKKDALNKVIQDLSVKLYQQAQGAQGGAANGQPGDSQQNGNDNGNDDNTVDGDFKDVTPDDKK |
| 3900 | sp|A5N6M3|DNAJ\_CLOK5 | MAKKDYYEILGLDKGASDQDIKKAFRKLALKYHPDRNPNDKKAEEKFKEINEAYQVLTDPQKKAQYDQFGTTDFNGGGFQGGFGGFDFSDLGGFGDIFDSFFGGGFSSGRRKNGPERGSDLEYTLSLTFEEAVFGVEKEISVTRNERCETCNGTGAKKGSHPHTCDKCNGTGQVRHQRSTPLGNFVTMTTCDKCGGRGTIIKNPCEECRGKGIVRKHRKIKVKVPAGVDTGNIIPIRGQGEHGKNGGPSGDLYINLRVSPHSKFKRKGFDIYLDAHISFGKAALGTSLKVPSIDGDVKYEIPPGTQPGTVFRLKGKGVPKVDGRGRGDQYVNVIVDIPKNLNEKQKEALMMFMEASGEIQPRDVEKKSFIDKIFKNDSK |
| 3901 | sp|B3QMB2|DNAK\_CHLP8 | MGKIIGIDLGTTNSCVAVMQGTQPTVIENSEGYRTTPSMVAFTKTGERLIGQAAKRQAVTNPKNTIFSIKRFMGRKYDEVPNEKKFASYDVVNEGGDARVKIGEKSYSPQEISAMILQKMKQTAEDFLGEKVTEAVITVPAYFNDAQRQATKDAGKIAGLEVKRIINEPTAAALAYGLDKKKENEKVAVFDLGGGTFDISILELGDGVFEVKSTDGDTHLGGDDFDQVIIDYLADEFKKQEGIDLRKDAIALQRLKEAAEKAKIELSSRTDTEINLPFITATQEGPKHLVINLTRAKFEAMSATLFDKVLEPCRRALKNSKLDMKEIDEVVLVGGSSRIPKVQALVKEFFGKEPNKSVNPDEVVAIGAAIQGGVLQGDVTDVLLLDVTPLSLGIETLGGVMTKLIEANSTIPTRKQETFSTAADNQTSVEVHVLQGERPMASDNKTLGRFHLGDIPPAPRGIPQIEVTFDIDANGILNVSAKDKATGKEQSIKIEASGKLTEAEIEKMKEDAKAHADEDQKRKEEIDLKNSADSLIFSTEKQLSELGDKLPADKKAEIESALEKLKEAHKAGSADAIKPAMDELSKVWSEAASNLYQQPGAEAGAAPQPETNGQQESKGGDGAVNAEYEVIDGDDDKK |
| 3902 | sp|A7I2G3|DNAJ\_CAMHC | MSDYYEILGVPKDADSDEIKKAFRKLALKYHPDRNAGDKEAEEKFKEINEAYQVLGNDERRQTYDRYGKEGLNGAFGNDFGGFDFGDIFDTFFGGGGFNKSRSQRYDDAYDLDSEILVSISFKDAFFGVSKDIKYKIKKPCKTCDGTGSKDKKLNTCPYCGGSGKIVKRSGFLSFAQTCPFCKGSGQIVKEKCHDCAGKGFIEEQVNVKFDIPKGVNTGIRIRIAKKGNISKSGEIGDLYVAVQVKDDKFFVRSADDIYIEVPVFFTQAILGKTIKVPTMHGEKELQLKVGSKDKDQFVIEKEGFENIRTKIAGNLIVQINVQTPKKLTDEQIELLEKLHESFDKTADGIFDKIKNWFK |
| 3903 | sp|Q24133|DNAJ1\_DROME | MGKDFYKILGLERKASDDEIKKAYRKLALKYHPDKNKSPQAEERFKEIAEAYEVLSDKKKRDIFDNYGEDGLKGGQPGPDGGGQPGAYTYQFHGDPRATFAQFFGSSDPFGAFFTGGDNMFSGGQGGNTNEIFWNIGGDDMFAFNAQAPSRKRQQDPPIEHDLFVSLEEVDKGCIKKMKISRMATGSNGPYKEEKVLRITVKPGWKAGTKITFPQEGDSAPNKTPADIVFIIRDKPHSLFKREGIDLKYTAQISLKQALCGALVSVPTLQGSRIQVNPNHEIIKPTTTRRINGLGLPVPKEPSRRGDLIVSFDIKFPDTLAPSLQNQLSELLPN |
| 3904 | sp|B2URT8|DNAK\_HELPS | MGKVIGIDLGTTNSAMAVYEGNEAKIIANKEGKNTTPSIVAFTDKGEILVGESAKRQAVTNPEKTIYSIKRIMGLMFNEDKAKEAEKRLPYKIVDRNGACAIEISGKVYTPQEISAKILMKLKEDAESYLGESVTEAVITVPAYFNDSQRKATKEAGTIAGLNVLRIINEPTSAALAYGLDKKESEKIMVYDLGGGTFDVTVLETGDNVVEVLATGGDAFLGGDDFDNRVIDFLASEFKSETGIEIKNDVMALQRLKEAAENAKKELSSAMETEINLPFITADATGPKHLVKKLTRAKFESLTEDLVEETISKIESVIKDAGLTKNEISEVVMVGGSTRIPKVQERVKAFINKDLNKSVNPDEVVAVGASIQGGVLKGDVKDVLLLDVTPLSLGIETLGGVMTKVIDRGTTIPAKKSQVFSTAEDNQPAVSIMVLQGERELARDNKSLGKFDLQGIAPAPRGVPQIEVTFDIDANGILTVSAQDKNTGKSQEIKISGSSGLSDSEIEKMVKDAELHKEEDARKKEVIEARNHADSLAHQTQKSLDEHKTNLNENDANEIQNAINALKECVKNDNATKAELEDKTKLLAQAAQKLGEAMANKNNAEQPKKKDDDVIDAEVE |
| 3905 | sp|P47265|DNAJ\_MYCGE | MAAGKRDYYEVLGISKNASSQDIKRAFRKLAMQYHPDRHKAENETTQKQNEEKFKEVNEAYEVLSDEEKRKLYDQFGHEGLNASGFHEAGFNPFDIFNSVFGEGFSFGMDGDSPFDFIFNRSKKRQQQIVVPYNLDIALVIEINFFEMTNGCNKTIKYERKVSCHSCNGFGAEGGESGLDLCKDCNGNGFVIKNQRSIFGTIQSQVLCSTCNGQGKQIKVKCKTCRSNKYTVTNQIKEINIPAGMYSGEALVDESGGNEFKGHYGKLIIQVNVLASKIFKRSDNNVIANVLVDPMVAIVGGVIELPTLEGIKEFNIRPGTKSGEQIVIPNGGIKFSKSFKRKAGDLIIIISYARPCEYTNLELKKLREFIKPNQEVKQYLNTLKNEYKT |
| 3906 | sp|Q9ZV19|DJ1E\_ARATH | MASAVQKSALLLCGDYMEAYETIVPLYVLQSFGVSVHCVSPNRNAGDRCVMSAHDFLGLELYTELVVDQLTLNANFDDVTPENYDVIIIPGGRFTELLSADEKCVDLVARFAESKKLIFTSCHSQVMLMAAGILAGGVKCTAFESIKPLIELSGGEWWQQPGIQSMFEITDCVKDGNFMSTVGWPTLGHGIKLLLESLGGKVCSLEKKQASVLFLIGDYVEDYGINVPFRALQALGCKVDAVTPNKKKGEVCATAVYDLEDGRQIPAEKRGHNFFVTASWDDICVDDYDCVVVPGGRSPELLVMNEKAVALVKSFAEKDKVFAAIGQGKLLLAATGVLKGKRCASGKGMKVMVKVAGGEAVMEKGCVTDGKVVTAASATDLPAFLFDLSTALGLTVMF |
| 3907 | sp|Q1RGI7|DNAJ\_ECOUT | MAKQDYYEILGVSKTAEEREIKKAYKRLAMKYHPDRNQGDKEAEAKFKEIKEAYEVLTDSQKRAAYDQYGHAAFEQGGMGGGGFGGGADFSDIFGDVFGDIFGGGRGRQRAARGADLRYNMELTLEEAVRGVTKEIRIPTLEECDVCHGSGAKPGTQPQTCPTCHGSGQVQMRQGFFAVQQTCPHCQGRGTLIKDPCNKCHGHGRVERSKTLSVKIPAGVDTGDRIRLAGEGEAGEHGAPAGDLYVQVQVKQHPIFEREGNNLYCEVPINFAMAALGGEIEVPTLDGRVKLKVPGETQTGKLFRMRGKGVKSVRGGAQGDLLCRVVVETPVGLNEKQKQLLQELQESFGGPTGEHNSPRSKSFFDGVKKFFDDLTR |
| 3908 | sp|P95829|DNAK\_STRPN | MSKIIGIDLGTTNSAVAVLEGTESKIIANPEGNRTTPSVVSFKNGEIIVGDAAKRQAVTNPDTVISIKSKMGTSEKVSANGKEYTPQEISAMILQYLKGYAEDYLGEKVTKAVITVPAYFNDAQRQATKDAGKIAGLEVERIVNEPTAAALAYGLDKTDKEEKILVFDLGGGTFDVSILELGDGVFDVLSTAGDNKLGGDDFDQKIIDHLVAEFKKENGIDLSTDKMAMQRLKDAAEKAKKDLSGVTSTQISLPFITAGEAGPLHLEMTLTRAKFDDLTRDLVERTKVPVRQALSDAGLSLSEIDEVILVGGSTRIPAVVEAVKAETGKEPNKSVNPDEVVAMGAAIQGGVITGDVKDVVLLDVTPLSLGIETMGGVFTKLIDRNTTIPTSKSQVFSTAADNQPAVDIHVLQGERPMAADNKTLGRFQLTDIPAAPRGIPQIEVTFDIDKNGIVSVKAKDLGTQKEQTIVIQSNSGLTDEEIDRMMKDAEANAEADKKRKEEVDLRNEVDQAIFATEKTIKETEGKGFDAERDAAQAALDDLKKAQEDNNLDDMKTKLEALNEKAQGLAVKLYEQAAAAQQAQEGAEGAQATGNAGDDVVDGEFTEK |
| 3909 | sp|Q7NDG8|DNAJ\_GLOVI | MARDLYETLNVSRDASKEDIKRAYRKLARQYHPDVNKDAGAEDTFKELSRAYEVLSDDDQRARYDRFGEAGLNGGVGGGPGDFAGAAGFGDISDIFESFFGGFAGAGTGGRRATRPGGPTRGDDLRYDMVLEFQEAIFGGEKEITINHLITCETCRGSGSKPGSGPMTCRNCGGQGQIRQARRTPFGLFTQVAACPNCQGTGEVIESPCPTCSGRGRNQKQTTIKITIPAGVDAGSRLRVQGEGDAGMRGGPPGDLFIYVSVRNHPVFRREGQDIYSIAEISYLQAILGSQMSVETVDGPQTVVVPPGTQPETVLTLDGKGVPRIGNPTRRGNHYLQLKVVIPTKLGAEERELLTKLAKARGEKVSKKEGLEGLIDSIGNLFH |
| 3910 | sp|Q8S1D9|EG1\_ORYSJ | MTLPRQCAAACRTGGGGGGVVRCRAVAAAGGAVAVRDAVVAPVARRGAARKTAETVAGMWREVQGCGDWEGMLEPAPHPVLRGEVARYGELVGACYKAFDLDPASRRYLNCKYGRERMLEEVGMGGAGYEVTRYIYAAADVSVPTMEPSTSGRGRWIGYVAVSTDEMSRRLGRRDVLVSFRGTVTPAEWMANLMSSLEAARLDPCDPRPDVKVESGFLSLYTSADKTCRFGGAGSCREQLLREVSRLVAAYSGGGEDVSVTLAGHSMGSALALLSAYDLAELGLNRAAPVTVFSFGGPRVGNAAFKARCDELGVKALRVTNVHDPITKLPGVFLNEATAGVLRPWRHSCYTHVGVELPLDFFKVGDLASVHDLATYISLLRGADKKQPAAAAADAGGVLAKVMDFVGRRRGGGALPWHDAAMIQMGGLVQTLGLI |
| 3911 | sp|Q94KE0|ESL1\_ARATH | MTMSENSRNLEAGLLLRKNQNDINECRITAVVLFSTFVSVCGSFCFGCAAGYSSVAQTGIINDLGLSVAQYSMFGSIMTFGGMIGAIFSGKVADLMGRKGTMWFAQIFCIFGWVAVALAKDSMWLDIGRLSTGFAVGLLSYVIPVYIAEITPKHVRGAFVFANQLMQSCGLSLFYVIGNFVHWRNLALIGLIPCALQVVTLFFIPESPRLLGKWGHEKECRASLQSLRGDDADISEEANTIKETMILFDEGPKSRVMDLFQRRYAPSVVIGVGLMLLQQLSGSSGLMYYVGSVFDKGGFPSSIGSMILAVIMIPKALLGLILVEKMGRRPLLLASTGGMCFFSLLLSFSFCFRSYGMLDELTPIFTCIGVVGFISSFAVGMGGLPWIIMSEIFPMNVKVSAGTLVTLANWSFGWIVAFAYNFMLEWNASGTFLIFFTICGAGIVFIYAMVPETKGRTLEDIQASLTDFLQ |
| 3912 | sp|Q9U2Q9|GSK3\_CAEEL | MNKQLLSCSLKSGKQVTMVVASVATDGVDQQVEISYYDQKVIGNGSFGVVFLAKLSTTNEMVAIKKVLQDKRFKNRELQIMRKLNHPNIVKLKYFFYSSGEKKDELYLNLILEYVPETVYRVARHYSKQRQQIPMIYVKLYMYQLLRSLAYIHSIGICHRDIKPQNLLIDPESGVLKLCDFGSAKYLVRNEPNVSYICSRYYRAPELIFGATNYTNSIDVWSAGTVMAELLLGQPIFPGDSGVDQLVEIIKVLGTPTREQIQSMNPNYKEFKFPQIKAHPWNKVFRVHTPAEAIDLISKIIEYTPTSRPTPQAACQHAFFDELRNPDARLPSGRPLPTLEMDGPMGTGEVSTTSGDVAGPSA |
| 3913 | sp|B4S9D1|GRPE\_PROA2 | MSKKASMHKEEKHEKGQHKQPADEQPLGIDPEVSSGEASEGACQESDAKVQELEKALEEAQQQAEKYRGEMMRFAADFENFRKQKERELQAAGTRSIENTIRELLPLVDDMKRVMEHAPDDLEQSGEARPYLEGVELLWKNLLKWFERKGVKQIEACGQKLDVNFHEAITQVDHPDAEPDTVIEEYQTGYVMGDKVLRHAKVIVAR |
| 3914 | sp|Q7C0D0|GRPE\_SHIFL | MSSKEQKTPEGQAPEEIIMDQHEEIEAVEPEASAEQVDPRDEKIANLEAQLAEAQTRERDGILRVKAEMENLRRRTELDIEKAHKFALEKFINELLPVIDSLDRALEVADKANPDMSAMVEGIELTLKSMLDVVRKFGVEVIAETNVPLDPNVHQAIAMVESDDVAPGNVLGIMQKGYTLNGRTIRAAMVTVAKAKA |
| 3915 | sp|A3QGP0|GRPE\_SHELP | MSKESNKAQEPQIEETEAVAVETEVVEDAASLMDELTQANFRVEELEQALAAAEAKVEEQKDSVIRAAAEVENVRRRAAIDVEKAHKFALEKFANELLPVIDNMERALQGTSSEDEATKAIYEGVELTLKTFTSAVAKFGLTQVDPQGEAFNPDHHQAIGMQPSEEFPANTVMMVMQKGYMLNERLLRPAMVMVSQGGASVDTQA |
| 3916 | sp|B0SRF2|GRPE\_LEPBP | MAEETNQSLEDQNVQVEEGQTISDEAIEQAVEGAEKELDNAKKEIESLKDSWLRERAEFQNYKRRTANDLLNARKESIKKFAEGLTGALDNLERVSNVPNQTPEVVAFVEGIKMVQKEFYSVLEKEGIKRLDPKGQPFDPMLMEAIASEESAEFTEETVVETYQAGYYHEEGESKQSIRPARVKVGKPQS |
| 3917 | sp|A9KKU1|GRPE\_LACP7 | MADNMDFKDLMADEAEDIIEKDIARVNQASEDIDQENQSEVVDDTTENEDASEEVYEEDTASEDGSKEKKSFFKKKEKKDKKDEKIDELTDRLMRNMAEFENFRKRTEKEKTQMFEVGAKDIIERILPVIDNFERGLAAVSVEEKDSAFVQGIEKIYKQLVTTLEAAGVKQIEAAGKEFDPDFHNAVMHAEDEEYGENIVAEEFQKGYMYRETVVRHSMVKVVN |
| 3918 | sp|A2C5L7|GRPE\_PROM3 | MSGDAPTPAHDPAAEGLEASVPLESVASMNSDEGQPSAQSAPLADNEARLQQLEQEHSSLREEHETLRSQYMRIAADFDNFRKRQSRDQDDLRLQLICTTLSEILPVVDNFERARQQLEPQGEEAQALHRSYQGLYKQLVEVLKQLGVASMRVVGQAFDPTLHEAVSREPSEEHPEDVVTEELQRGYHLNGRVLRHALVKVSMGPGPQSGASPSSAQSNDDSTATFQGEADPAEPGV |
| 3919 | sp|Q9SHH6|GSTUO\_ARATH | MADEVILLDFWASMFGMRTRIALAEKRVKYDHREEDLWNKSSLLLEMNPVHKKIPVLIHNGKPVCESLIQIEYIDETWPDNNPLLPSDPYKRAHAKFWADFIDKKVNVTARRIWAVKGEEQEAAKELIEILKTLESELGDKKYFGDETFGYVDIALIGFHSWFAVYEKFGNVSIESECSKLVAWAKRCLERESVAKALPESEKVITFISERRKKLGLE |
| 3920 | sp|B8ELB8|HFQ\_METSB | MAAERPQNLQDTFLNFVRKNKVPLTIFLVNGVKLQGVVTWFDNFCVLLRRDGHSQLVYKHAISTIMPGQPIQMFESGEDAAAS |
| 3921 | sp|Q4ZYY0|HFQ\_PSEU2 | MSKGHSLQDPYLNTLRKEKVGVSIYLVNGIKLQGTIESFDQFVILLKNTVSQMVYKHAISTVVPVRPIRLPSATDADGADAEPGNA |
| 3922 | sp|Q2W4P9|HFQ\_MAGSA | MSAEKSQNVQDVFLNFIRKNKTPVTIFLVNGVKLQGIVTWFDNFSVLLRRDGHTQLVYKHAISTVMPSTPISLFEPPIKENGEE |
| 3923 | sp|B2K204|HFQ\_YERPB | MAKGQSLQDPFLNALRRERVPVSIYLVNGIKLQGQVESFDQFVILLKNTVSQMVYKHAISTVVPSRPVSHHSNTPSGSTNNYHGSNPSAPQQPQQDSDDAE |
| 3924 | sp|Q9PH57|HFQ\_XYLFA | MAKGQSLQDPFLNALRRERVPVSIYLVNGIKLQGTIESFDQFVVLLRNTVSQMVYKHAISTVVPARNVRVGPGGGYVQSGSDTLQINDDEVE |
| 3925 | sp|Q3KIY9|HFQ\_PSEPF | MSKGHSLQDPYLNTLRKEKVGVSIYLVNGIKLQGTIESFDQFVILLKNTVSQMVYKHAISTVVPVRPIRLPSATESEAGDAEPGNA |
| 3926 | sp|A5D2K8|HFQ\_PELTS | MTKPQINLQDAFLNQVRKENIPVTIFLVNGFQLKGMVRGFDNFTVILESEGKQLMVYKHAISTVSPLKPVSTSFSEAKAPEKS |
| 3927 | sp|Q92Q84|HFQ\_RHIME | MAERSQNLQDLFLNTVRKQKISLTIFLINGVKLTGVVTSFDNFCVLLRRDGHSQLVYKHAISTIMPGQPLQMFENEEAAS |
| 3928 | sp|Q21HA2|HFQ\_SACD2 | MSKGHSLQDPYLNVLRKERIPVSIYLVNGIKLQGQVESFDQFVVLLKNTVSQMVYKHAISTVVPSRPVRVPLLNADGTSAEDENGG |
| 3929 | sp|P0A3G7|HFQ\_BRUME | MAERSQNLQDLFLNSVRKQKISLTIFLINGVKLTGIVTSFDNFCVLLRRDGHSQLVYKHAISTIMPSQPVQMFEGEEA |
| 3930 | sp|A7GR70|HFQ\_BACCN | MKQSINIQDQFLNQLRKENTFVTLYLLNGFQLRGLIKGFDNFTVLLETEGKQQLIYKHAISTFMPQKNVAIELE |
| 3931 | sp|P22988|LDHA\_HORVU | MHKASSLSELGFDAGGASSGFFRPVADGCPATPTSSAVPHRRLTKISVIGAGNVGMAIAQTILTQNLADEIALVDALPDKLRGEALDLQHAAAFLPRVRISGTDAAVTKNSDLVIVTAGARQIPGETRLNLLQRNVALYRKIVPPVAEHSPDALLLVVSNPVDVLTYVAWKLSGFPASRVIGSGTNLDSSRFRFLIAEHLDVNAQDVQAYMVGEHGDSSVAIWSSISVGGMPAFKSLRDSHRSFDEAALEGIRRAVVGGAYEVIGLKGYTSWAIGYSVASLAASLLRDQRRVHPVSVLASGFHGISDGHEVFLSLPARLGRGGILGVAEMDLTEAEAAQLRRSAKTLWENCQLLDL |
| 3932 | sp|Q9M1R1|LCYD1\_ARATH | MEAGERRNGDSMSHNHRAPKKPRLAGLLTESDIDSEFAHHQTGVARINNGSFGCCPGSVLEAQREWQLRYLRQPDEFYFNGLRRGLLASRTVISDLINADDVDEVSLVDNATTAAAIVLQKVGRCFSEGKYKKEDTVVMFHCAFQSVKKSIQAYVSRVGGSTVEVRLPFPVNSNEEIISKFREGLEKGRANGRTVRLAIIDHITSMPCVLMPVRELVKICREEGVEQVFVDAAHAIGSVKVDVKEIGADYYVSNLHKWFFCPPSIAFFYCKKRGSESDVHHPVVSHEFGNGLPIESAWIGTRDYSSQLVVPSVMEFVNRFEGGMEGIMMKNHDEAVRMGLMLADAWGTNLGSPPEMCVGMVMIGLPSKLCVGSDEDAIKLRSYLRVHYSVEVPVFYLGLRDGEEGVKDKDSGLITAYVRISHQVYNKTEDYERLRDAITELVKDQMTCQNLPAL |
| 3933 | sp|P47481|LON\_MYCGE | MPVTKKSQILVVRGQVIFPFVPFSLDVGRPRSRKIIKALKTLKTKRLVLVTQKFTGEQNPEFNDIYHVGTLCEIDEIVDVPGVDSKTVDYRIKGRGLQRVLIEKFSDADINEVSYQLLNSTVKDEANVDRFLQRIFPEKEEIEQLMEGAEKFLELENISKTVNVPKGLKQLDIITFKLANLVPNTESIKQAILEENEIANRLEKIIQAGIEDLQKIQDYGRSKNKETEFDKLDSKITRKINEQLSRQQRDFYLREKLRIIREEIGISSKKEDEVASIRKKLDENPYPEAIKKRILSELEHYENSSSSSQESTLTKTYIDTLLNLPWWQKSKDNSDVKNLIKTLDKNHTGLDKVKERIVEYLAVQLRTQKNKGPIMCLVGPPGVGKSSLAKSIAEALDKKFVKISLGGVHDESEIRGHRKTYLGSMPGRILKGMTRAKVINPLFLLDEIDKMTSSNQGYPSGALLEVLDPELNNKFSDNYVEEDYDLSKVMFIATANYIEDIPEALLDRMEIIELTSYTEQEKIEIAKNHLIKRCLEDADLNSEELKFTDEAISYIIKFYTREAGVRQLERLIQQVVRKYIVAMQKDGIKQETIDVNAVKKYLKKEIFDHTMRDEVSLPGIVNGMAYTPTGGDLLPIEVTHVAGKGELILTGNLKQTMRESANVALGYVKANAERFNINPSLFKKIDINIHVPGGGIPKDGPSAGAALVTAIISSLTGKKVDPTVAMTGEITLRGKVLVIGGVKEKTISAYRGGVTTIFMPEKNERYLDEVPKEIVDKLNIIFVKEYSDIYNKLFS |
| 3934 | sp|B1GZQ6|LON\_UNCTG | MSELDRFSNDKNEMPKIPDVLPLLPVRDIILYPAMVLPLAVGREKSIKALEESMSTNRLVFIVTQKNIQIEDPTPKDVYNIGTICEVLQMLKMPDGTLKALVEGISRAQWTDFKLSDKGYIEVGLKVFDENTLKMPEVEAIMRQTIALFEQYVKLNPRIPIDISVSVSNIADPARLADTIASHLVIKNNDKQTILELVDPVKRLEKIIQILNAEIEILNIERRIQNRVRNQIEKTQKEYYLTEQMKAIQKELKQKDEAQKDLDDLKGKLKKTKMPQAAKSAADKEMSRLEKMMPMSPEATVIRTYLEWILDLPWEKSTIDNLDLNRAKEVLDQDHYGLEKVKDRVLEYLAVLSRVQKIKGPILCFIGPPGVGKTSIAKSVARSLGRNFVRISMGGVKDEAEIRGHRRTYIGSMPGKIIQSIKKAGSNNPVFILDEIDKIGSDWRGDPSSALLEVLDPEQNYTFNDHYLDVDFDLSNVMFITTANTLNNIPVTLFDRLELIRFSSYTDVEKRHIAEDFIVPKQLKEHGLKPEEFIFDDGALDIVIKNYTHEAGVRNLTREIANLCRKVVKGLEFNKELKSITIKPENLNKYLGIAYYERERIAENDVGVATGLAWTEVGGETLTIEVNKMGGKNSLVLTGKLGDVMKESAQAALTYVRSSSQKLKIDENMFSNTDFHVHVPEGAVPKDGPSAGIALATALASVCMNKPIKKKIAMTGEVTLRGRVLSIGGLKEKVLAAYREGITMILFPESNKKDLVDIPEDVIKKLQMIPVSHMDEVISLTIERLPENKNIKMDKRNGENGI |
| 3935 | sp|O66605|LON\_AQUAE | MNELFQTPQVEAGIKEYPLMPLRDIVIFPTMVQPLFVGRRFSIRAIEEANKKDKLIFLVLQKDKDVEEPKEEDIYKVGVVAYILRTVPIEDARVKVLVQGLKRGVIKKLEWKEDHYVAQVDVIEERDIPPESQTIEDKALIKAVKESIDKLVSLGKQIIPDLVVLIKELEEPGKLADMVASILDIKSSQAQEILETFDPRERLKKVYKFLQDEIGLLEVKQRISEIARERMEKEQREYYLRQQLKAIQEELGEAGGIKAEIEEYTKKFEEVKECMPEEGVKEVEKNIKRLERLHPESAEAGVIRTWLDWVLDLPWCTRTEDNYDLERAREILDRDHYDLEKVKDRIIEYLAIRKLTQGKEAPTQILAFVGPPGVGKTSLGRSIAEALGRKFVRIALGGIRDEAEIRGHRRTYVGAMPGRIIQAIKQAGTKNPVIMLDEIDKLAISFQGDPAAALLEVLDPEQNKKFTDLYIGIPFDLSEVIFICTGNRADTIPTPLLDRMELIMLSGYSEEEKLFIAKKHLIPKLIPLHGFSPEEIEFTDEAILEIIRGYTREAGVRNLQRQISAVLRKIAVKKLQGEKGPFNITPELVRKLLGVPRYRPEREKKPLVGVATGLAWTEVGGEIMFIEATKMKGKGSLVLTGSLGDIMKESAQAALSYIRSKAEDYGIDPDIFSQVDVHVHVPEGAVPKDGPSAGVAIATALLSLFTDIPVRMDVAMTGEITLRGRVLPVGGLKEKILAAKRAEIYEVILPAKNKDEVMEELPEYVREKMTLHFVDNLEEVFKIALVREPKPLKEA |
| 3936 | sp|Q8SRK0|MAS5\_ENCCU | MSKDPKGYYKVLELSPGASVAEVRKAYAKQQAKYHLDSPYMKNKLKNAASDEEREKIKKECGEMSARLNSAKSVLFDEKKKKEYDSGMGEFGAHFSGGGYSDIFDIFSQFTGGRGHQRTNKVSSTKYVITVSLRESFVGKVSKFNVRTEKVCTTCDGKGGKDVETCKKCNGNGVYTSRRSLGGFVTLAETRCDGCDGSGHKIKGKPCSTCNGAEYIQDKTMFEVNIKPGVRKGEKIVFEGMGDQRRGHVPGDVIFIIDVQEDSRFERCGNDLVGNIDIPLYTAIGGGVVYFTHIDGRQLEINVSPFRTFDTALKIRNEGFKGSRTGNLILKPNIIIGSESDRAKIMQVLSAPSKKPYGTFTKVNSEFGSMPEPERDHEDASEEGAQSARSFFNNFSFF |
| 3937 | sp|Q9Z1B7|MK13\_MOUSE | MSLTRKRGFYKQDINKTAWELPKTYLAPAHVGSGAYGAVCSAIDKRTGEKVAIKKLSRPFQSEIFAKRAYRELLLLKHMHHENVIGLLDVFTPASSLRSFHDFYLVMPFMQTDLQKIMGMEFSEDKVQYLVYQMLKGLKYIHSAGIVHRDLKPGNLAVNEDCELKILDFGLARHTDTEMTGYVVTRWYRAPEVILSWMHYNQTVDIWSVGCIMAEMLTGKTLFKGKDYLDQLTQILKVTGVPGAEFVQKLKDKAAKSYIQSLPQSPKKDFTQLFPRASPQAADLLDKMLELDVDKRLTAAQALAHPFFEPFRDPEEETEAQQPFDDALEHEKLSVDEWKQHIYKEISNFSPIARKDSRRRSGMKLQ |
| 3938 | sp|Q5Z859|MPK4\_ORYSJ | MAMMVDPPNGMGNQGKHYYTMWQTLFEIDTKYVPIKPIGRGAYGIVCSSINRATNEKVAIKKINNVFDNRVDALRTLRELKLLRHLRHENVIALKDIMMPVHRRSFKDVYLVYELMDTDLHQIIKSSQPLSNDHCQYFLFQLLRGLKYLHSAGILHRDLKPGNLLVNANCDLKICDFGLARTNNTKGQFMTEYVVTRWYRAPELLLCCDNYGTSIDVWSVGCIFAELLGRKPIFPGTECLNQLKLIVNVLGTMSEADIEFIDNPKARKYIKTLPYTPGIPLTSMYPQAHPLAIDLLQKMLVFDPSKRISVTEALEHPYMSPLYDPSANPPAQVPIDLDIDENLGVDMIREMMWQEMLHYHPEVVAGVNM |
| 3939 | sp|Q9SAZ5|AHP3\_ARATH | MDTLIAQLQRRFCDFTISLYHQGFLDDQFTELKKLQDECSPDFVAEVVTLFFEDCEKLISNMARALDQTGNVDFKLVGSSVHQLKGSSSSVGAKRVKGLCVTLKECCDSQNYEGCVRCLQQVDIEYKTLKAKLQDLFNLEQQIVQAGGRIPQVDI |
| 3940 | sp|Q20117|GSH1\_CAEEL | MGLLTKGSPLTWAETVPHIDYIKKHGIAQFINLYHRLKSRHGDQLKWGDEIEYTIVKFDDANKKVRVSCKAEELLNKLQAEEQVNAMLGTANRFLWRPEFGSYMIEGTPGMPYGGLIACFNIVEANMKLRRQVVKKLLKKDETCLSISFPSLGVPGFTFPEVAADRKNDDAANSVFWPEQAVFLGHPRFKNLTKNIKGRRGSKVAINVPIFKDTNTPSPFVEDLSALGGPDDTRDAKPDHIYMDHMGFGMGCCCLQVTFQAVNVDEARWLYDQLTPITPILLALSAATPIFRGKLSNVDSRWDIISASVDDRTPEERGLEPLKNSKWVIDKSRYDSTDCYIYPCSVGYNDIPLQYDETIYKQLIDGNIDEPLAKHIAHMFIRDPHQVFRERIEQDDEKSSEHFETIQSSNWMNMRFKPPPPDAPEIGWRVEFRPTEVQLTDFENAAYCCFVVLLTRMMISFRLTYLMPISMVTENMKRAQQKDAVLNQKFLFRKGLAECKSAPENLKGSEKCGPPSQDIEEMSIDEIINGKKNGFPGLISLIRQFLDSADVDVDTRCTISQYLNFISKRATGEINTLAHWTRGFVQSHPAYKHDSDVNDNIVYDLLKKMDAISNGEDHCEKLLGCYRSKTDHAISAAVRKAEEHMIVSSQKRAH |
| 3941 | sp|C1CCQ7|GRPE\_STRZJ | MAQDIKNEEVEEVQEEEVVETAEETTPEKSELDLANERADEFENKYLRAHAEMQNIQRRANEERQNLQRYRSQDLAKAILPSLDNLERALAVEGLTDDVKKGLGMVQESLIHALKEEGIEEIAADGEFDHNYHMAIQTLPADDEHPVDTIAQVFQKGYKLHDRILRPAMVVVYN |
| 3942 | sp|A8AVA7|GRPE\_STRGC | MAKHKHEEHPEDVEVKETVETAEQAESASPEKSELELANERADDFENKYLRAHAEMQNIQRRANEERQLLQRYRSQDLAKAILPSLDNLERALAVEGLTDDVKKGLEMVQESLVHALKEEGIEEIPADGEFDHNYHMAIQTVPADDEHPADTIAQVFQKGYKLHDRILRPAMVVVYN |
| 3943 | sp|O32481|GRPE\_LEGPN | MSKQNKKDWKKFKDEHKEEHKVENEILEEETDEESQHQEPALGHPSYTALEEQLTLAEQKAHENWEKSVRALAELENVRRRMEREVANAHKYGVEKLISALLPVVDSLEQALQLADKNSDPSMHEGLELTMKLFLDALQKFDVEQIDPLGQTFDPQQHEAMSMQPAPGAPPNSVITVFQKGYKLSDRVIRPARVIVSTK |
| 3944 | sp|B8F790|GRPE\_HAEPS | MTNQTEKEQVEQDVSQATELAQEAQEAQTQDVEPELQQNNEIDPLEEAIARVQELEAYIAEADKREQDIQLRARAEVENIRRRAEQDVEKAHKFALEKFSKEMLTVVDNLERGLQALEGVDESVKSGVELTHKGLVSTLNNFGVEAVGVVGEAFNPELHQAISMQPAEGIEANHISVVLQKGYTLHGRVIRPAMVMVAS |
| 3945 | sp|B0SHT2|GRPE\_LEPBA | MAEETNQSLEDQNVQVEEGQTISDEAIEQAVEGAEKELDNAKKEIESLKDSWLRERAEFQNYKRRTANDLLNARKESIKKFAEGLTGALDNLERVSNVPNQTPEVVAFVEGIKMVQKEFYSVLEKEGIKRLDPKGQPFDPMLMEAIASEESAEFTEETVVETYQAGYYHEEGESKQSIRPARVKVGKPQS |
| 3946 | sp|P46421|GSTU5\_ARATH | MAEKEEVKLLGIWASPFSRRVEMALKLKGIPYEYVEEILENKSPLLLALNPIHKKVPVLVHNGKTILESHVILEYIDETWPQNPILPQDPYERSKARFFAKLVDEQIMNVGFISMARADEKGREVLAEQVRELIMYLEKELVGKDYFGGKTVGFLDFVAGSLIPFCLERGWEGIGLEVITEEKFPEFKRWVRNLEKVEIVKDCVPPREEHVEHMNYMAERVRSS |
| 3947 | sp|B1KQY9|GRPE\_SHEWM | MSNDSSKAKQNQVDEAVEGEILTESEVETGNDEASLMDELTQANFRVEELEQALAEANAKIEEQKDSVTRAAASEANIRRRAAQDVEKAHKFALEKFANELLPVIDNMERALQGTNAEAEETKAIYEGVELTLKSFVSTVDKFGLKEVNPHGESFNPEHHQAIGMQPSPEFPANTVMMVMQKGYILNDRLLRPAMVMVSQGGSGVDTQA |
| 3948 | sp|B7NBV8|HCHA\_ECOLU | MTVQTSKNPQVDIAEDNAFFPSEYSLSQYTSPVSDLDGVDYPKPYRGKHKILVIAADERYLPTDNGKLFSTGNHPIETLLPLYHLHAAGFEFEVATISGLMTKFEYWAMPHKDEKVMPFFEQHKSLFRNPKKLADVVASLNADSEYAAIFVPGGHGALIGLPESQDVAAALQWAIKNDRFVISLCHGPAAFLALRHGDNPLNGYSICAFPDAADKQTPEIGYMPGHLTWYFGEELKKMGMNIINDDITGRVHKDRKVLTGDSPFAANALGKLAAQEMLAAYAG |
| 3949 | sp|Q12AC3|HFQ\_POLSJ | MSNNKGQLLQDPFLNTLRREHVPVSIYLVNGIKLQGQIESFDQYVVLLRNTVTQMVYKHAISTIVPGRAVSFATGESEESPAS |
| 3950 | sp|Q2FJ89|HCHA\_STAA3 | MSQDVNELSKQPTPDKAEDNAFFPSPYSLSQYTAPKTDFDGVEHKGAYKDGKWKVLMIAAEERYVLLENGKMFSTGNHPVEMLLPLHHLMEAGFDVDVATLSGYPVKLELWAMPTEDEAVISTYNKLKEKLKQPKKLADVIKNELGPDSDYLSVFIPGGHAAVVGISESEDVQQTLDWALDNDRFIVTLCHGPAALLSAGLNREKSPLEGYSVCVFPDSLDEGANIEIGYLPGRLKWLVADLLTKQGLKVVNDDMTGRTLKDRKLLTGDSPLASNELGKLAVNEMLNAIQNK |
| 3951 | sp|P63191|GRPE\_STAAU | MTNKDESVEKNTESTVEETNIKQNIDDSVEQAEESKGHLQDEAIEETSDENVIEEIDPKDQKINELQQLADENEEKYLRLYAEFENYKRRIQKENEINKTYQAQRVLTDILPAIDNIERALQIEGDDETFKSLQKGVQMVHESLINALKDNGLEVIKTEGEAFDPNIHQAVVQDDNPDFESGEITQELQKGYKLKDRVLRPSMVKVNQ |
| 3952 | sp|Q8PLQ4|HFQ\_XANAC | MAKGQSLQDPFLNALRRERVPVSVYLVNGIKLQGTIESFDQFVVLLRNTVSQMVYKHAISTVVPARNVRVGPGGGYVQSNEGNQAEDDDVEQ |
| 3953 | sp|Q15NR0|HFQ\_PSEA6 | MAKGQSLQDPFLNALRKERIPVSIYLVNGIKLQGQVESFDQFVILLKNTVSQMVYKHAISTVVPSRALPVAATNPHADADENQ |
| 3954 | sp|Q6HF98|HFQ\_BACHK | MKQSINIQDQFLNQLRKENTFVTLYLLNGFQLRGLIKGFDNFTVLLETEGKQQLIYKHAISTFVPQKNVSIELE |
| 3955 | sp|B7HCI2|HFQ\_BACC4 | MKQSINIQDQFLNQLRKENTFVTLYLLNGFQLRGLIKGFDNFTVLLETEGKQQLIYKHAISTFVPQKNVSIELE |
| 3956 | sp|Q313E8|HTPG\_DESAG | MSKEHGAAAEKHEFRTEVRKLLHIITHSLYTNREIFLRELVSNASDALDKLRFAQTRGEAAPAADLDLNIAITVNEETRTLTVSDTGIGMTRQELIDNLGTIASSGSERFLKELAEKGEQASNIIGRFGVGFYAVFMVADSVTVTTRSALDASGAWRWTSDGLGSFELEEALDAPERGTRIDIRLKEDAGDFLKKDHLKDVIRRHSNFIPFPVSVEGEHVNTTPALWREPRFQVTEEQYKDFYTFLTFDTQAPMDTIHLSIDAPVQFTSLAFIPNFGNELFGYDRDKYGLDLYVRRVLISKEYKALIPEYLSFLKGVVDTEDLPLNISRETLQENALIAKIRQTLVKQVLAHLAKLAESDAEKYATFWRTHGRVFRMGYNDYINRDKFIPLLRFNSSALDDEKGLCSLDDYIGRAREGQKTVWYVSAPNREAARLNPHVEIFRRKGIEVLYLYEAADEFIMESLGKWNEFEFRSAEHADADALKDFDDVEKKDAPEALDEEGRKTLSSLLSHMKTLLGDKVEDVRESARLSDSPACLASKDGGMTASMEKLMRVMNKDESVPRKVLEINPDHPLTRNLLRLYRADADDRLLAQATEQLYESALLLEGYLRDPHALVGRVNSLLEQATGWYAEVRKL |
| 3957 | sp|Q5ZVS1|HTPG\_LEGPH | MVSKQQTMGFQTEVKQMLHLVVHSLYSNKEIFLRELISNASDALDKLRFLALSNGSLFENDSDLKISIQINEKLQTITISDNGIGLSWEEAVENLGTIAKSGTKEFISQLTGEQAKDSQLIGQFGVGFYSAFIVADKVTVKSRRAGLQPEDGIVWESKGDGEFTIGYEKKSTRGTEITLHLKPENDEFLSDWRIRGIISKYSDHICWPIVMKKLSEEGKESKEFETVNKATALWTLQKSEISEEDYKQLYKHISHDYMDPLTWSHNHVEGKHEYITLLYIPAHAPFDLWQHEAKHGLKLYVKRVFIMDEATQFLPRYLRFVKGIVDASDLPLNISREILQDNKQVESIRAACTKRVLSMLEKMATNDKETYQKFWNEFGLVLKEGPIEDFANKEAIAKLLRFSTTASGSEKQEVSLEEYVSRMKEGQDKIYYITASSYNAAKNSPHLEIFRKKGIEVLLLSDKVDEWLVGYMNEFAGKKLQSISKGKVELGDDETSEQIKEQEKTLEPLIKHIKSVLNERVKDVLLTNRLTDSPACVVADEQDMGLEMQRILQAAGQQVPVSKPIFEINPDHALIKRLHDIQDDNQFELWVTMLFEQAVLAEGGQLDNPADFVNRVNRLLVSS |
| 3958 | sp|A7I226|HTPG\_CAMHC | MAKRKFKTEVNQLLNLMINSLYSNKEIFLRELISNASDALDKLNYLALTKDEYKKLTYTPKIEITLDKEAKTLTISDTGIGMDENELENNLGTIARSGTKGFIEQLSGDAKKDSNLIGQFGVGFYSAFMVADKIEVLTKKPLSDEAFSWKSDANDYTIEKAEKADFGTQITLYLKDDEFLDSYRLENIIKKYSNHIPYPIFLQKEKYVASQKEGEEGHYESEISQVNKANALWRLPKSNLKEQDYFDFYKQISHDSSDPLLYIHTKAEGVHEYTTLFFVPSVQPFDLFRVDYQSGVKLYVKRVFITDDAKELLPPYLRFVRGIIDIEDLPLNVSREILQENRIMQTVKAASVKKILGELEKIKNSDKEKYAKFYKLFGKVLKEGLWGFSTEKDEILKLCLFKSSKTGELIDLAEYKKSMAAEQKEIYYISGGKAETLKNSPLLEEFNAKNIEVLICDDEIDTIIMPMIGEFDKTPIKSVMDADFSDDKGEISAQDLEIAEKIKENLKDKVKDVKISKRLKNALGVLVFDKNDPNYAMQAIYKQMGQENLPEVLPILEINKDHEIIKKLIANQSEIAKISNIIFDLAKLSEGQNIDDASEFAKNVSEIIAKAI |
| 3959 | sp|Q0AHI5|HTPG\_NITEC | MQTAENVEHLNFQAEAKQLLRLMIHSLYSNKEIFLRELISNASDAADKLRFEGLSDTALYESDPDLKIRIAYDKEARTITISDNGIGMSRQEVIDNIGTIAKSGTREFIDSLTGDQARDANLIGQFGVGFYSAFIVADKVTLTTRRAGLTTEHGVRWESSGEGEYTLETVEKRDRGTEVVLHLREDEDELLSSFQLRSIIRKYSDHITLPIIMKKEVWDDESKAYKISDEEETVNQASAIWARPKNEITQEQYDEFYKHVAHDFEPPLAHVHARVEGKQEYIQLLYIPAHAPFDLFDREHRHGLKLYIKRVFIMDDAEKLLPGYLRFVRGIIDSNDLPLNVSREILQESKDIDSIRAGSVKKVLGLIEDLATSDKSEDQEKFKIFWREFGQVLKEGVAEDYSNRERIAKLLRFTSTHDEQEEQTVSLDDYIARMKPEQEKIYYITADGLKAAQSSPHLEIFRKKGIEVLLLHDRIDEWLTANLNEYAGKSLQSIAKGDLDLGKLEDEVEKQEHEKEAGDFQELTAKMKEVLGELVKDVRITYRLTESPACLVADTHDMSGNLGRLLKSAGQKVPDSKPFLEINPHHPMVQRLKYEEAKFADWSHILFDQALLAEGGQLEDPASFVRRLNDLLLQNILSGK |
| 3960 | sp|B1JQP7|HSPQ\_YERPY | MIASKFGIGQQVRHSLHGYLGVVIDIDPEYSLAPPEPDEVANNKTLRSSPWYHVVIEDDDGQPVHTYLAEAQLTYEDVDAHPEQPSLDELAASIRHQLQAPHLRN |
| 3961 | sp|Q54I91|HSPI\_DICDI | MYKLSKTTPFFFRRAFLCGRRGGYPESNLSNFGRPTASTLSTSQSSGICETNDYSNKPYFFQVKFEDRFSKKIDKFNECFRHFYYSHGGQQYMDKFESIFDNWEHEFSKTRGFRSPKTFINESDKGIEIRVELPGFSKENVKIDFSNGLLNIDALNKNTTIQQPSSNNQQVESQHQSLMEFKKSIKLPEDIDVSLIKAIMNNGILEISIPKNSYVKSTTINVQ |
| 3962 | sp|Q32J53|HTPG\_SHIDS | MKGQETRGFQSEVKQLLHLMIHSLYSNKEIFLRELISNASDAADKLRFRSLSNPDLYEGDGELRVRVSFDKDKRTLTISDNGVGMTRDEVIDHLGTIAKSGTKSFLESLGSDQAKDSQLIGQFGVGFYSAFIVADKVTVRTRAAGEKPENGVFWESAGEGEYTVADITKEDRGTEITLHLREGEDEFLDDWRVRSIISKYSDHIALPVEIEKCEEKDGETVISWEKINKAQALWTRNKSEITDEEYKEFYKHIAHDFNDPLTWSHNRVEGKQEYTSLLYIPSQAPWDMWNRDHKHGLKLYVQRVFIMDDAEQFMPNYLRFVRGLIDSSDLSLNVSREILQDSTVTRNLRNALTKRVLQMLEKLAKDDAEKYQTFWQQFGLVLKEGPAEDFANQEAIAKLLRFASTHTDSSAQTVSLEDYVSRMKEGQEKIYYITADSYAAAKSSPHLELLRKKGIEVLLLSDRIDEWMMNYLTEFDGKPFQSVSKVDESLEKLADEVDESAKEAEKALTPFIDRVKALLGERVKDVRLTHRLTDTPAIVSTDADEMSTQMAKLFAAAGQKVPEVKYIFELNPDHVLVKRAADTEDEAKFSEWVELLLDQALLAERGTLEDPNLFIRRMNQLLVS |
| 3963 | sp|P27420|HSP7C\_CAEEL | MKTLFLLGLIALSAVSVYCEEEEKTEKKETKYGTIIGIDLGTTYSCVGVYKNGRVEIIANDQGNRITPSYVAFSGDQGDRLIGDAAKNQLTINPENTIFDAKRLIGRDYNDKTVQADIKHWPFKVIDKSNKPSVEVKVGSDNKQFTPEEVSAMVLVKMKEIAESYLGKEVKNAVVTVPAYFNDAQRQATKDAGTIAGLNVVRIINEPTAAAIAYGLDKKDGERNILVFDLGGGTFDVSMLTIDNGVFEVLATNGDTHLGGEDFDQRVMEYFIKLYKKKSGKDLRKDKRAVQKLRREVEKAKRALSTQHQTKVEIESLFDGEDFSETLTRAKFEELNMDLFRATLKPVQKVLEDSDLKKDDVHEIVLVGGSTRIPKVQQLIKEFFNGKEPSRGINPDEAVAYGAAVQGGVISGEEDTGEIVLLDVNPLTMGIETVGGVMTKLIGRNTVIPTKKSQVFSTAADNQPTVTIQVFEGERPMTKDNHQLGKFDLTGLPPAPRGVPQIEVTFEIDVNGILHVTAEDKGTGNKNKITITNDQNRLSPEDIERMINDAEKFAEDDKKVKDKAEARNELESYAYNLKNQIEDKEKLGGKLDEDDKKTIEEAVEEAISWLGSNAEASAEELKEQKKDLESKVQPIVSKLYKDAGAGGEEAPEEGSDDKDEL |
| 3964 | sp|B7LE66|HSPQ\_ECO55 | MIASKFGIGQQVRHSLLGYLGVVVDIDPVYSLSEPSPDELAVNDELRAAPWYHVVMEDDNGLPVHTYLAEAQLSSELQDEHPEQPSMDELAQTIRKQLQAPRLRN |
| 3965 | sp|Q8D251|HSPQ\_WIGBR | MISSKFGIGQQVRHKLLGYLGVIIDVDPEYSLEKPSLEEISADDSLRRSPWYYVVMEDEDGKPVHTYLAEAQLGYEISPVHPEQPKLDELSASIKKQLKTPRLRN |
| 3966 | sp|Q3A1V6|HSLU\_PELCD | MTNFTPREIVSELDRYIIGQKQAKRAVAVALRNRWRRQQVADELRDEIAPKNIIMIGPTGVGKTEIARRLARLAQAPFIKVEASKFTEVGYVGRDVESMVRDLLDLAIIMIREEEARKVRVKAEDLAEERLLDLLLPGAQSRDPDLSGEEAGEGGTRDKLRKLLRKGALDERKVELEVQAAQMPMMEVFTPQGTEEMGINFKEMFGNLFPKKTKRRQIKVSEAREILIEQEAERLVDMEKVNTLARERVEQSGIIFIDEIDKIAGQNGRQGPDVSREGVQRDILPIVEGSTVSTKYGPVKTDHILFVAAGAFHVAKPSDLIPELQGRFPIRVELTSLGEEEFFRILTEPKNALIRQYEALMETEGIRLHFTEEAIREIARIATQVNSQTENIGARRLHTIMEKLLEELSFEAPEHREQSVEIDVDYVRKQLSDIARDEDLSRYIL |
| 3967 | sp|Q5PGB5|HSPQ\_SALPA | MIASKFGIGQQVRHSLLGYLGVVVDIDPEYSLDEPSPDELAVNDELRAAPWYHVVMEDDNGQPVHTYLAEAQLRSEMRDEHPEQPSMDELARTIRKQLQAPRLRN |
| 3968 | sp|Q0J4P2|HSP81\_ORYSJ | MASETETFAFQAEINQLLSLIINTFYSNKEIFLRELISNSSDALDKIRFESLTDKSKLDAQPELFIHIVPDKASNTLSIIDSGIGMTKSDLVNNLGTIARSGTKEFMEALAAGADVSMIGQFGVGFYSAYLVAERVVVTTKHNDDEQYVWESQAGGSFTVTRDTSGEQLGRGTKITLYLKDDQLEYLEERRLKDLIKKHSEFISYPISLWTEKTTEKEISDDEDEEEKKDAEEGKVEDVDEEKEEKEKKKKKIKEVSHEWSLVNKQKPIWMRKPEEITKEEYAAFYKSLTNDWEEHLAVKHFSVEGQLEFKAVLFVPKRAPFDLFDTRKKLNNIKLYVRRVFIMDNCEELIPEWLSFVKGIVDSEDLPLNISREMLQQNKILKVIRKNLVKKCVELFFEIAENKEDYNKFYEAFSKNLKLGIHEDSTNRNKIAELLRYHSTKSGDELTSLKDYVTRMKEGQNDIYYITGESKKAVENSPFLEKLKKKGYEVLYMVDAIDEYAVGQLKEFEGKKLVSATKEGLKLDESEDEKKRKEELKEKFEGLCKVIKEVLGDKVEKVVVSDRVVDSPCCLVTGEYGWTANMERIMKAQALRDSSMAGYMSSKKTMEINPENAIMEELRKRADADKNDKSVKDLVLLLFETALLTSGFSLDDPNTFGSRIHRMLKLGLSIDEDETAEADTDMPPLEDDAGESKMEEVD |
| 3969 | sp|P16627|HS71L\_MOUSE | MAANKGMAIGIDLGTTYSCVGVFQHGKVEIIANDQGNRTTPSYVAFTDTERLIGDAAKNQVAMNPQNTVFDAKRLIGRKFNDPVVQSDMKLWPFQVINEAGKPKVMVSYKGEKKAFYPEEISSMVLTKMKETAEAFLGHNVTNAVITVPAYFNDSQRQATKDAGVIAGLNVLRIINEPTAAAIAYGLDKGSHGERHVLIFDLGGGTFDVSILTIDDGIFEVKATAGDTHLGGEDFDNRLVSHFVEEFKRKHKKDISQNKRAVRRLRTACERAKRTLSSSTQANLEIDSLYEGIDFYTSITRARFEELCADLFRGTLEPVEKSLRDAKMDKAKIHDIVLVGGSTRIPKVQKLLQDYFNGRDLNKSINPDEAVAYGAAVQAAILMGDKSEKVQDLLLLDVAPLSLGLETAGGVMTVLIKRNSTIPTKQTQIFTTYSDNQPGVLIQVYEGERAMTRDNNLLGRFDLTGIPPAPRGVPQIEVTFDIDANGILNVTAMDKSTGKANKITITNDKGRLSKEEIERMVQEAERYKAEDEGQREKIAAKNALESYAFNMKSAVGDEGLKDKISESDKKKILDKCNEVLSWLEANQLAEKDEFDHKRKELENMCNPIITKLYQSGCTGPTCTPGYTPGRAATGPTIEEVD |
| 3970 | sp|B3PWI7|HSLU\_RHIE6 | MTTFSPREIVSELDRYIIGQHEAKRAVAIALRNRWRRQQLDPSLRDEVMPKNILMIGPTGVGKTEISRRLAKLAGAPFIKVEATKFTEVGYVGRDVEQIIRDLVEVGIGLVREKKRAEVQAKAHVSAEERVLDALVGTTASPATRENFRKKLRDGELDDKEIDIEVADTGSGMGGFEIPGMPGANIGVLNLSEMFGKAMGGRTKKVRTTVKASYTDLIRDESDKLIDNEVIQREAVRSTENDGIVFLDEIDKIAARDGGMGAGVSREGVQRDLLPLVEGTTVSTKYGPVKTDHILFIASGAFHVSKPSDLLPELQGRLPIRVELRPLNKEDFRRILTETEASLIRQYRALMETESLSLDFTEDAIDALADVAVHLNSSVENIGARRLQTVMERVLDDISYNAPDRSGTAITIDAAYVREHVGDLAQNTDLSRFIL |
| 3971 | sp|O03986|HS904\_ARATH | MADAETFAFQAEINQLLSLIINTFYSNKEIFLRELISNSSDALDKIRFESLTDKSKLDGQPELFIHIIPDKTNNTLTIIDSGIGMTKADLVNNLGTIARSGTKEFMEALAAGADVSMIGQFGVGFYSAYLVADKVVVTTKHNDDEQYVWESQAGGSFTVTRDTSGEALGRGTKMILYLKEDQMEYIEERRLKDLVKKHSEFISYPISLWIEKTIEKEISDDEEEEEKKDEEGKVEEIDEEKEKEEKKKKKIKEVTHEWDLVNKQKPIWMRKPEEINKEEYAAFYKSLSNDWEEHLAVKHFSVEGQLEFKAILFVPKRAPFDLFDTKKKPNNIKLYVRRVFIMDNCEDIIPDYLGFVKGIVDSEDLPLNISRETLQQNKILKVIRKNLVKKCLELFFEIAENKEDYNKFYEAFSKNLKLGIHEDSQNRTKIAELLRYHSTKSGDELTSLKDYVTRMKEGQNEIFYITGESKKAVENSPFLEKLKKKGYEVLYMVDAIDEYAIGQLKEFEGKKLVSATKEGLKLEETDDEKKKKEELKEKFEGLCKVIKDVLGDKVEKVIVSDRVVDSPCCLVTGEYGWTANMERIMKAQALKDSNTGGYMSSKKTMEINPENSIMDELRKRAEADKNDKSVKDLVLLLFETALLTSGFSLDEPNTFGSRIHRMLKLGLSIEEDDAVEADAEMPPLEDDADAEGSKMEEVD |
| 3972 | sp|Q1MNB3|HSLU\_RHIL3 | MTTFSPREIVSELDRYIIGQHDAKRAVAIALRNRWRRQQLDPSLRDEVMPKNILMIGPTGVGKTEISRRLAKLAGAPFIKVEATKFTEVGYVGRDVEQIIRDLVEVGIGLVREKKRAEVQAKAHVSAEERVLDALVGTTASPATRENFRKKLRDGELDDKEIDIEVADAGSGMGGFEIPGMPGANIGVLNLSEMFGKAMGGRTKKVRTTVKASYSDLIRDESDKLIDNEVIQREAVRSTENDGIVFLDEIDKIAARDGGMGAGVSREGVQRDLLPLVEGTTVSTKYGPVKTDHILFIASGAFHVSKPSDLLPELQGRLPIRVELRPLNKDDFRRILTETEASLIRQYRALMETESLSLEFTDDAIDALADVAVHLNSSVENIGARRLQTVMERVLDDISYNAPDRGGTAVTIDAAYVREHVGDLAQNTDLSRFIL |
| 3973 | sp|B1MZG8|HRCA\_LEUCK | MLTDRQKLILSAIIYEYTQTARAVGSKSLQEQLNIKVSSATIRNEMAALESASLIKKLHTSAGRVPSRAGYRYYLDHLMANHSVTEHDVNMVIQSFRGNFHEIDDLLDESARTLSEFTGATAIILKPQRHDIKVSGFRLVPLENQQLIAVLVTSDGKVTSQTFKLPRELAISSLDSMVKYINDQMTGRPVLEVLQMMQSDELPTQMSRVIKTPGAFLQLFGDVLSRSVGDQVHIGGRLNVLNFDESLNNKADLKRLLEFLESAKDIRNVAQTLGSHTVVKISQEIHEPLLKSFSLITRGFTIPNQGDGVIALLGPIRMPYARNILLIDAYGEALTQKMIEYT |
| 3974 | sp|Q6MT04|HRCA\_MYCMS | MLTNRQIKILQTIVEEFIKTNQPVGSKRILELLNMKISSATIRNESATLEHEGYLEKQHTSSGRTPSTKGYRYYVDNIMKLDSADYTRLKIYLNQLLDLRKYDIDKTINYASEIISELTKMTAVVIKKQNIKDIKLKKIELILLSEFLASVLFIFSDGDVQNKMFNLKDVALSDLKIAIKLFSDVLVDVKLDEIDQYLNDLKHQLFLSIKQYDYVLNTFINTILESKNEQKETHGMRYMLENPEFNDTNKLKNAVKLVEQLSPFDWFNIAYESNKNMNKIAIKIGNEIDQINDDISMIATELKIGNSSTVLTLVGPKRVDYNQVNQLMNLIIEIINTKEN |
| 3975 | sp|B1YKS7|HRCA\_EXIS2 | MLTDRQLLILRAIVDDYIKTAQPVGSRTLSKRSDVTFSSATIRNEMADLEEMGLIEKPHTSAGRIPSELGYRFYVDHLIRPESISPQEAKALKSLFAHSVNENDRLIRHTADLLSELTHYTTLVLGPKEEGQRLHHLELIPLAEGRVVIVLVTETGHVEHKTLQLAEALSREAASRLMERLNQTLRGTPLRQLRLRLLEEIRRFRSEHSEQTTLLSKALDIVLTDQHEERPLIYLGGKANMFDQPEFQDVAKLRPVLELIEQQEALFDFLSPSLDNQILITIGSENNVDALKDCSVIRAHYSVDGVSLGTLALIGPKRMDYNRGINSIIHLLQAFQTELRKNSLD |
| 3976 | sp|Q1HGE8|HSF4\_CANLF | MQEAPAALPTEPGPSPVPAFLGKLWALVGDPGTDHLIRWSPSGTSFLVSDQSRFAKEVLPQYFKHSNMASFVRQLNMYGFRKVVSIEQGGLLRPERDHVEFQHPSFVRGREQLLERVRRKVPALRSDDGRWRPEDLGRLLGEVQALRGVQEITEARLRELRQQNEILWREVVTLRQSHGQQHRVIGKLIQCLFGPLQTGSSGAGAKRKLSLMLDEGSSCPTPAKFNTCPLPGALLQDPYFIQSPLPETTLGLSSSHRTRGPIISDIHEDSPSPDGTRLSPSSGGRREKGLALLKEEPASPGGEGEAGLALAPNECDFCVTAPPPLSVAVVQAILEGKGNFSPEGPRNAQQPEPRGPREVPDRGTLGLDRGARSPENLLPPMLLRAPPESVEPAGPLDVLGPSHQGREWTLMDLDMELSLMQPLGPERSETELAVKGLNSPGPGKDSTLGAPLLLDVQAALGGPALSLPGALTIYSTPESRANYLGPGANPSP |
| 3977 | sp|B0TAD4|HRCA\_HELMI | MQMNDRKQKVLWAIIQDYVSTAEPVGSRTIARKYDLGVSPATIRNEMSDLEELGLIEQPYTSSGRIPSDYGYRYFVDCLMERETLNPEELRKVKRAMSERLQEVNSIMQQTTNLLAELTNYTAVALGPQVGKTTFQQIHFFPVMPTKAVAVVVTSAGVMENKILDIPESMTPEDLQKVSVMINERLQGLTMAQVRASLCMELNEALKKQKQVLSRSLELIDEALHGDSGERFFLAGMMNIFKQPEFKDVEKLQNLLGILEQHQTMRELMHDHPEPGIHIKIGAENRHEGVRNCSMVTASYHLDGEVLGVIGLIGPTRMEYSKAVAVVEELTEQLSAVLKKCLIVRGI |
| 3978 | sp|Q9WZV5|HRCA\_THEMA | MRRLNRKNNEALKKLNDRQRKVLYCIVREYIENKKPVSSQRVLEVSNIEFSSATIRNDMKKLEYLGYIYQPHTSAGRIPTDKGLRFYYEEMLKISKETSEADLAVETFKSMPLADPEKVLFLAGNLLARLTEGYVLIERPNTRDLKILRVMLIPVSEDYLIFSILTEFGVSKVTPIKTQERLNWEEIERQLNFLLRGRTVGEVLMGKIESLKGSGFLRLIESLIGETVERYLDAGLENLLKDETLTLEDIRNLLEEVKDQKFLESLVGEGITVRIGREIGRKKLEKFAVFSGKYFKGESPIGSVYLFTSKVTKYDRNHRVFEYILNRLSEYFTSTSRR |
| 3979 | sp|C4ZUQ6|HSLO\_ECOBW | MPQHDQLHRYLFENFAVRGELVTVSETLQQILENHDYPQPVKNVLAELLVATSLLTATLKFDGDITVQLQGDGPMNLAVINGNNNQQMRGVARVQGEIPENADLKTLVGNGYVVITITPSEGERYQGVVGLEGDTLAACLEDYFMRSEQLPTRLFIRTGDVDGKPAAGGMLLQVMPAQNAQQDDFDHLATLTETIKTEELLTLPANEVLWRLYHEEEVTVYDPQDVEFKCTCSRERCADALKTLPDEEVDSILAEDGEIDMHCDYCGNHYLFNAMDIAEIRNNASPADPQVH |
| 3980 | sp|A6QHC5|HRCA\_STAAE | MITDRQLSILNAIVEDYVDFGQPVGSKTLIERHNLNVSPATIRNEMKQLEDLNYIEKTHSSSGRSPSQLGFRYYVNRLLEQTSHQKTNKLRRLNQLLVENQYDVSSALTYFADELSNISQYTTLVVHPNHKQDIINNVHLIRANPNLVIMVIVFSSGHVEHVHLASDIPFNNDKLNTISNFVTNKLTEFNQNLQDDIVSFVQSEQEEIFINKLLNTMNNHISNQSNSIYMGGKVKLIDALNESNVSSIQPILQYIESNRIAELLQDISSPNINVKIGNEIDDSLSDISIVTSQYHFDETLKGQIAVIGPTAMHYQNVIQLLNRIW |
| 3981 | sp|B4T0T8|HSLU\_SALNS | MSEMTPREIVSELNKHIIGQDNAKRSVAIALRNRWRRMQLDEELRHEVTPKNILMIGPTGVGKTEIARRLAKLANAPFIKVEATKFTEVGYVGKEVDSIIRDLTDAAVKMVRVQAIEKNRYRAEELAEERILDVLIPPAKNNWGQAEQQQEPSAARQTFRKKLREGQLDDKEIEINLAAAPMGVEIMAPPGMEEMTSQLQSMFQNLGGQKQKPRKLKIKDAMKLLVEEEAAKLVNPEELKQDAIDAVEQHGIVFIDEIDKICKRGETSGPDVSREGVQRDLLPLVEGCTVSTKHGMVKTDHILFIASGAFQVAKPSDLIPELQGRLPIRVELQALTTSDFERILTEPNASVTVQYKALMATEGVNIEFTDSGIKRIAEAAWQVNETTENIGARRLHTVLERLMEEISYNASDLHGQNITIDAEYVSKHLDALVADEDLSRFIL |
| 3982 | sp|P0DJM4|HRCA\_LISMO | MLTERQLLIFRAIIDHFTWTIQPVGSKNLLKEKGLPYSSATIRNEMGVLEEYGFIEKTHSSSGRVPSEKGYRFYVDYLLQPKKLDKSDRQMIRSFFSENYYEMEGLIQNSALMLSDLTNYTSILLGPEATKNHLSGFRFVPINNFQAMLILITDQGHVDNHLVTIPEGTTLSDIERMVNILNERLVGLSLDDLKVQIPMEVKELLGKHVRNYESFMHVFSDSFAQASQQKVYFGGKTNILNQPEFHDINKVREMLHLMEEEQDVYELFRDIPDGLQVKIGRENNNSLMEDCSIITATYNIAGERVGGIVLLGPTRMEYSRMMGLVDVMSRDLTDVLTKLYRDNQN |
| 3983 | sp|O52163|HRCA\_STRAL | MLSERRLEVLRAIVQDYVGTEEPVGSKALTERHRLGVSPATVRNDMAALEDEGYIAQPHTSAGPIPTDKGYRLFVDRLADVKPMTAPERRAIHHFLDQAVDLDDVVARTVRLLAHVTRQVAVVQYPSLTRSTVRHVELLSMAPARLMLVLITDTGRVEQRMIDCPAPFGESSVADLRARLNSQVAGRRFADVPQLVQDLPESFESEDRPTVSTVLSTLLETLVEETEERLMIGGTANLTRFGHDFPLTIRPVLEALEEQVVLLKLLGEAKDSAMTVRIGHENAHEGLSSTSVVSVGYGSGREAVAKLGVVGPTRMDYPGTMGAVRAVARYVGQILAES |
| 3984 | sp|B8ZLY7|HRCA\_STRPJ | MVTERQQDILNLIIDIFTKTHEPVGSKALQESINSSSATIRNDMAELEKQGLLEKAHTSSGRMPSVAGFQYYVKHSLDFDRLAENEVYEIVKAFDQEFFKLEDILQEAANLLTDLSGCTVVALDVEPSRQRLTAFDIVVLGQHTALAVFTLDESRTVTSQFLIPRNFLQEDLLKLKSIIQERFLGHTVLDIHYKIRTEIPQIIQRYFTTTDNVIDLFEHIFKEMFNENIVMAGKVNLLNFANLAAYQFFDQPQKVALEIREGLREDQMQNVRVADGQESCLADLAVISSKFLIPYRGVGILAIIGPVNLDYQQLINQINVVNRVLTMKLTDFYRYLSSNHYEVH |
| 3985 | sp|Q8NWA8|HRCA\_STAAW | MITDRQLSILNAIVEDYVDFGQPVGSKTLIERHNLNVSPATIRNEMKQLEDLNYIEKTHSSSGRSPSQLGFRYYVNRLLEQTSHQKTNKLRRLNQLLVENQYDVSSALTYFADELSNISQYTTLVVHPNHKQDIINNVHLIRANPNLVIMVIVFSSGHVEHVHLASDIPFNNDKLNTISNFVTNKLTEFNQNLQDDIVSFVQSEQEEIFINKLLNTMNNHISNQSNSIYMGGKVKLIDALNESNVSSIQPILQYIESNRIAELLQDISSPNINVKIGNEIDDSLSDISIVTSQYHFDETLKGQIAVIGPTAMHYQNVIQLLNRIW |
| 3986 | sp|C0ZB46|HRCA\_BREBN | MLSDRQQMILNAIVDNYIHSAEPVGSRTISKRDDIGFSSATIRNEMSDLEELGYLEQPHTSAGRVPSTKGYRFYVDNLIQPHLLEETELGKLKQLFAERILHAEQVVEYTAQILSQLTNYTAIVLGPEIFEHRLKHIQIVPLNAEQAVAIVVTHTGRVENKLIDLPEGIGAGEIEKLVNLLNAKLTDVPLWQLRQRLYQEISGEMQRHTEQYEEILQLLNNSLTQEEERVYLRGATKIMNQPEFRDVDKVKDILELLEQHDQLMNVIGMQGDGLTVRIGQENQLDAIKQCSIITTSYSLGGKPVGMVGILGPTRMEYGKVITVLNHLAEGLSRMLTSQFEK |
| 3987 | sp|Q11B41|HRCA\_CHESB | MTKPVADQSLQSLDARSRDIFRLIVESYLQRGEPVGSRNLSRLLPTQLSPATIRNVMSDLEHLGLIYAPHVSAGRLPTQQGLRFFVDAFMEVGDLSEEERRVIEAQIKASGRGQSLDHMLTEASQMLSGLSRGAGLVLAAKTEAPLKHIEFIQLEPRKALAILVSQNGDVENRVIELPAGVTASQLVEASNFLNAHIRGRTLAEAKSEMARLKEETREALDSLSQSLVEQGLAIWAGAESDTPARIIIRGRANLLENVTAQADLELLRHLFDDLETKEALIQLLGLAEEGPGVRIFIGSENKLFSLSGSSLIVAPYRDQDSRVIGALGIIGPTRLNYARIVPMVDYTAQLVGRLLR |
| 3988 | sp|A1A1M6|HRCA\_BIFAA | MAQSRRMLVLRAVVEDYIRSQEPVGSTTLTRDHDLGVSSATVRNDMAALEDEGYLIQPHTSAGRVPTEKGYRYFVDRLATVVPLSEAQRRGINSFLSGSVNLQDTLQRAARLLAQITGQVAVVAAPSLSKSTLRHIEIVPVSINTLLAVVITDTGRVAQHILNVTKLPDVTTLTHLTNEINTQCSGVSLTRTADCVRQMGARKEYHAISTLAETLAQAFDGMADDERASELYMAGTSRLAHQRTVADLAPLFDALEEQVVLMKLMSSLSETTQSDGVGVAIGSETHTPGLLHASVVTSGYGRTSAAATDGATHAAASSQTENQSGDDTRQAGEPVAFVGSIGPTHMDYAATMAAVRAVARYLTAFLAHDEGQPAD |
| 3989 | sp|Q57I24|IBPA\_SALCH | MRNFDLSPLYRSAIGFDRLFNLLENNQSQSNGGYPPYNVELVDENHYRIAIAVAGFAESELEITAQDNLLVVKGAHADEQKERTYLYQGIAERNFERKFQLAENIHVRGANLVNGLLYIELERVIPEANKPRRIEIN |
| 3990 | sp|A8ACK0|IBPA\_CITK8 | MRNFDLSPLYRSAIGFDRLFNLLENNQSQSNGGYPPYNVELVDENHYRIAIAVAGFAESELEITAQDNLLVVKGAHADEQKERTYLYQGIAERNFERKFQLAENIHVRGANLVNGLLYIDLERVIPEANKPRRIEIN |
| 3991 | sp|B5EY83|IBPB\_SALA4 | MRNYDLSPLLRQWIGFDKLANALQNSGESQSFPPYNIEKSDDNHYRITLALAGFRQEDLDIQLEGTRLTVKGTPEQPENEPKWLHQGLVMQPFSLSFTLAENMEVSGATFTNGLLHIDLTRNEPETIAPQRIAINERSALNS |
| 3992 | sp|Q7AP87|INLH\_LISMO | MKKRWNSVFKLVLMVTAILGLSLYVTTSQGVEVRAESITQPTAINVIFPDPALANAIKIAAGKSNVTDTVTQADLDGITTLSAFGTGVTTIEGVQYLNNLIGLELKDNQITDLTPLKNLTKITELELSGNPLKNVSAIAGLQSIKTLDLTSTQITDVTPLAGLSNLQVLYLDLNQITNISPLAGLTNLQYLSIGNAQVSDLTPLANLSKLTTLKADDNKISDISPLASLPNLIEVHLKNNQISDVSPLANTSNLFIVTLTNQTITNQPVFYQNNLVVPNVVKGPSGAPIAPATISDNGTYASPNLTWNLTSFINNVSYTFNQSVTFKNTTVPFSGTVTQPLTEAYTAVFDVDGKQTSVTVGANELIKEPTAPTKEGYTFTGWYDAKTGGTKWDFATDKMPAEDITLYAQFTINSYTATFDIDGKLTTQKVTYQSLLEEPVAPTKDGYTFTGWYDAKTGGTKWDFATGKMPAGNITLYAQFTKNDNPNPDDPTTNTPTGNGDGTSNPSNSGGNTTLPTAGDENTMLPIFIGVFLLGTATLILRKTIKVK |
| 3993 | sp|A8AKK2|IRAM\_CITK8 | MEWSVENNLVCPTTGTAFALTSGAENLKFILWYKGDYFLRTGSVISPEDSGVLANGKKRNIKILHVFPYSNALWASFHNRIDCPGNGVVTINHCARQQQCVFTLCPYGARTVTG |
| 3994 | sp|P53193|JAC1\_YEAST | MLKYLVQRRFTSTFYELFPKTFPKKLPIWTIDQSRLRKEYRQLQAQHHPDMAQQGSEQSSTLNQAYHTLKDPLRRSQYMLKLLRNIDLTQEQTSNEVTTSDPQLLLKVLDIHDELSQMDDEAGVKLLEKQNKERIQDIEAQLGQCYNDKDYAAAVKLTVELKYWYNLAKAFKDWAPGKQLEMNH |
| 3995 | sp|B5EWR4|IRAP\_SALA4 | MKNLIAELLLKLAQKEEESKELVAQVEALEIIVTAMLRNMAQNEQEMLIRQVEGALEGVKPDASVPDHDTELLRQYVKKLLRHPRH |
| 3996 | sp|Q8K339|KIN17\_MOUSE | MGKSDFLSPKAIANRIKSKGLQKLRWYCQMCQKQCRDENGFKCHCMSESHQRQLLLASENPQQFMDYFSEEFRNDFLELLRRRFGTKRVHNNIVYNEYISHREHIHMNATQWETLTDFTKWLGREGLCKVDETPKGWYIQYIDRDPETIRRQLELEKKKKQDLDDEEKTAKFIEEQVRRGLEGKEQETPVFTELSRENEEEKVTFNLNKGAGGSAGATTSKSSSLGPSALKLLGSAASGKRKESSQSSAQPAKKKKSALDEIMELEEEKKRTARTDAWLQPGIVVKIITKKLGEKYHKKKGVVKEVIDRYTAVVKMTDSGDRLKLDQTHLETVIPAPGKRVLVLNGGYRGNEGTLESINEKAFSATIVIETGPLKGRRVEGIQYEDISKLA |
| 3997 | sp|Q2YWF6|LDH2\_STAAB | MKTFGKKVVLIGDGSVGSSYAFAMVTQGVADEFVIIDIAKDKVKADVQDLNHGTVHSPSPVDVKAGEYEDCKDADLVVITAGAPQKPGETRLQLVEKNTKIMKSIVKSVMDSGFDGYFLIAANPVDILTRFVKEYTGLPAERVIGSGTVLDSARLQYLISQELGVAPSSVDASIIGEHGDTELAVWSQANVAGISVYDTLKEQTGSEAKAEEIYVNTRDAAYEIIQAKGSTYYGIALALMRISKAILNNENNVLNVSIQLDGQYGGHKGVYLGVPTLVNQHGAVKIYEMPLSAEEQALFDKSVKTLEDTFDSIKYLLED |
| 3998 | sp|B8CY71|LON\_HALOH | MDQEMVTKETEKYIELPLLASRGVVVFPHMVIPLLVGREKSIEALEKAMVKDKEIIILSQKDEKIEDPDPEDLYTIGTIAEVKQLVKLPNGMLKVVVEGIKRARIIDFIEIDEYFEVRAEILDQTVPEVDLEMKALMKAVLNKFQEYIKYNRNLPSETIMTVTNIEEPARFSDTIASHLELKFRQEQDLLEAISIKERLNKLLEIIKDEIEILKVEQKIQKKVRKQVEKTQKEYYLREQLKAIKEELDEDEEDDEIEEYRNKAEELDLPEKIREKVDKEIEKLKKTPSMSPEATVIRNYLDCVLDLPWNKVREEKIDLDEAKNVLDSEHYGLEDVKERILEYLAVRKLAPQKKSPILCLIGAPGVGKTSLGRSIARALGRDFVRLSLGGVRDEAEIRGHRRTYIGSRPGRIINAMREAGSKNPVFLLDEVDKMSSDFRGDPAAALLEVLDPEQNNEFTDHYLELPFDLSKVLFVTTANVAYPIPAPLLDRMEVIELPGYTEDEKVEIALRHLIPRILNEHGLTEDEIHFSSNSIYRIIREYTREAGVRNLERKLAAITRKVSKEIVEGRGRQARVTTQSIEKYLGVPKFKYEKAQKKDRVGVATGMAYTQTGGDILDIEVAVVPGKGKLTLTGSLGDVMKESARAALSYIRSKQEELGLSDNFHEEYDLHVHVPKGATPKDGPSAGITIASAIASALTGQPVKGKYAMTGEVTLRGRVLPVGGIKTKIMAARRAGLKDIIMPEENKKDFEEIPVKIKKDIRVNFVNHMDQVLDLILGGDEDEN |
| 3999 | sp|Q68WS8|LON\_RICTY | MNKKSLPLMALRDMVLFPGVIAPIFVGRKKSLQALSRTTISEENNTKYILVTLQKKFDQENPSKHELYNTAILAKIIQIVKLPNNTAKILIEAVARVKLSDIKDEESFEANYEIIPDEEILDMHNMRSLVDNAVQLFNKYAMNDKKVNTEIIETINKEISNKTNFINIINILASHLITSLETKQQLLEETSPVKRITTVITTLTSNIVNSETEHALQQRVRKQIEKTQRDYYLHEQMKAIQKELDEDKSELADIEKKIKSLKLSKEAKEKAESEFKKLRAMNQMSAESGVTRNYLETLLSLPWGKYDNSKIDINQAEKILNRDHFGLEKVKERIIEYLAVLQRSNKIRGPILCLIGPPGVGKTSLVKSIAEGMGRKYAKFSLGGVRDEAEIRGHRKTYLGSMPGKILGQLKKVKTSNPVMLLDEIDKMSSDFRGDPASALLEVLDPEQNSHFVDHYLEVEYDLSNVVFIATANSHDLPRALSDRMEKIYISGYVEEEKLQIAKNYLVPKQFKVHKIKKDEITISEDAILDLIRYYTKESGVRALEREICALTRKALKQILADNTVKNISIDSNNLEEFLGAKKYNFGLVEKEDQIGSTTGLAYTEVGGELLTIEALAFSGKGEIKTTGKLGDVMKESAMAAYSCFRSRAPNFGLKYDNYKDFDIHIHVPAGAIPKDGPSAGCALFTTIVSLMTKIPVHRTVAMTGEITLRGNVLPIGGLKEKLLAASRGGIKTVLIPEENVKDLKDIPPNIKENLEIISVSNIDQVLKHALVEMPINKGLSYDL |
| 4000 | sp|Q4ULN0|LON\_RICFE | MNKKSLPLMALRDMVVFPGVIAPIFVGRQKSLQALSHTTVSEEDNSKYILVTLQKKFDQENPSKHELNNTAILAKIIQIVKLPNNTAKILIEAVARVKLSNIKGNDAFEANYEIIPDEEIFDVNNMRSLVDNAVQLFSKYAINDKKVNAEIIETINKEISNSTNFINIINILASHLITSLEAKQHLLEETSPFKRITTVISTLTSNIVNSETEQALQQRVRKQIEKTQRDYYLHEQMKAIQKELDEDKSELADIEKKIKSLKLSKEAKEKAESELKKLRSMNQMSAESGVTRNYLETLLSLPWGKYDNSKIDINQAEKILNRDHFGLEKVKERIIEYLAVLQRSSKIRGPILCLIGPPGVGKTSLVKSIAEGMGRKYTKFALGGVRDEAEIRGHRKTYLGSTPGKILGQLKKVKTSNPVMLLDEIDKMSSDFRGDPASALLEVLDPEQNSHFVDHYLEVEYDLSNVIFIATANSHDLPRALSDRMEKIYISGYVEEEKLQIAKNYLVPKQFKMHKIKKDEITISETAILDLIRYYTKESGVRALEREIGALTRKALKQILADKTVKHIAIDSSNLEEFLEAKKYNFGLAEKEDQIGSTTGLAYTEVGGELLTIEALAFPGKGEIKTTGKLGDVMKESAMAAYSCFRSRATNFGLKYDNYKDFDIHIHVPAGAIPKDGPSAGCALFTTIVSLMTKIPVHRTVAMTGEITLRGNVLPIGGLKEKLLAASRGGIKTVLIPEENVKDLKDIPPNIKESLEIISVSNIDQVLKHALVETPINK |
| 4001 | sp|B2V6N0|LON\_SULSY | MGPFEDKLDLLELPSTYPLIPTRDVIVFPYMVFPLFIGRPFSIKAVEEALDNNQRYIFLSLQKDKEKEIPTKKDIHEIGVVATIIRMMKLEDNRIKILVQGVSRGRIKELKKVDDYYQVGVEIIEDPEVEETLEVQALKHSLKDLLDKAISLGKQIVPDLVEIIKSVEEPGRLADLVASILDIKAEEAQQILEILDPVERLRVVHDKFLKEVGILELQQKIRISAREAIEKDQREYFLRQQIKAIQEELGERDEKQEEIENYKKKIEESGMPDEIKEEALKQLKRLEKMHPDSAEAGVIRTYLDWLVELPWNKRTKDRLDLKIAKKILDEDHYDLEKIKERILEYLAVLKLKKESSKDKSIKGPILCFVGPPGVGKTSLGRSIAKALNRKFVRISLGGVRDEAEIRGHRRTYVGAMPGKIIQAIKQARTKNPVIMLDEVDKIGLDFRGDPTAALLEVLDPEQNKEFIDHYLGVPFDLSEVMFICTANRLDTIPRPLLDRMEVIRLSGYSEEEKLHIAKKYLIPKQLKENGLDEKTVEFSDKAITFLIRGYTREAGVRNLERQIGSIIRKIAKKIIETGKKRKYKITPSLIKKFLGAPIYSTEKEEKDEVGVVTGLAWTEVGGEILKIEVTKMDGKGNLVLTGSLGDVMKESARIAFSYVKSKAKELGIDPEEFGKYDLHIHVPAGAIPKDGPSAGIAITTGIASVFTNRPVRSDVAMTGEITLRGKVLPVGGLKEKILAAKRAGIKTVILPKDNKEEVMSDLPPYVRKSMNLIFVDHIDEVFKIALREEKKEVENQESES |
| 4002 | sp|P0ACV1|LPXL\_ECO57 | MTNLPKFSTALLHPRYWLTWLGIGVLWLVVQLPYPVIYRLGCGLGKLALRFMKRRAKIVHRNLELCFPEMSEQERRKMVVKNFESVGMGLMETGMAWFWPDRRIARWTEVIGMEHIRDVQAQKRGILLVGIHFLTLELGARQFGMQEPGIGVYRPNDNPLIDWLQTWGRLRSNKSMLDRKDLKGMIKALKKGEVVWYAPDHDYGPRSSVFVPLFAVEQAATTTGTWMLARMSGACLVPFVPRRKPDGKGYQLIMLPPECSPPLDDAETTAAWMNKVVEKCIMMAPEQYMWLHRRFKTRPEGVPSRY |
| 4003 | sp|A7ZEJ3|LON\_CAMC1 | MQINENKGFPTEIPIIVEDELFLYPFMITPLFLSDEENLKALELAIQGETPILVVPTKPQQDGARDFDGIYDAGVIGTIMRRVPLPDGRVKVLFQGIDKGKILKQSGINPLRGIVDMLHVKRPSQVKTDALIVVLREKVRELSQFNHFFPPDLLKTIEESAEAVRVCDLVSSALRLKKQIAYSFFVEENLEQRLLKLIDYVIEEIEANKLQKEIKNKVHSKIDKTNKEYFLKEQLKQIQAELGADTSREEELEEYRKKLDAKKKFMAEDAYKEIKKQIDKLSRMHPDSADANTLQSYLDWVLEIPFENVAKKKSSIAEVSKHLNADHYSLEKPKERIEEYFALRELLELRGVGEKVNNGAILCFAGPPGVGKTSLANSIAKALKRELVRIALGGLEDVNELRGHRRTYIGAMPGRIVQGLIEAKQMNPVVVLDEIDKVGRSYRGDPTAVLLEILDPEQNNKFRDYYLNFNIDLSKIIFIATANDVSMIPAALRDRMEFIELSSYTPQEKFEIAKKYLLPQELKKHGLKPSDVSISKEALELIISDYTRESGVRNLRRRIADILRKVAKNILTKKNEGKISVTAKNLKEFLEKKVYEIEPADKKDQIGLVNGLAWTSVGGDVLRIEAIRIQGKGSMQITGQLGDVMKESAQIAFSVVKVLIDNKKLKVPMPIVPKFDDDKHKLEASDVYRRYDLHLHVPEGAVPKDGPSAGITMATAIASILTDTKVKHDIAMTGEITLTGRVLPIGGLKEKLIAAHKAGIKTALIPRKNYDRDLVDIPAEVKADMKIIAVDTIDDVLKNALVAKK |
| 4004 | sp|Q2YPX3|LON\_BRUA2 | MTGIEQKTPVGGSETGGADGLYAVLPLRDIVVFPHMIVPLFVGREKSIRALEEVMGVDKQILLATQKNAADDDPAPDAIYEIGTIANVLQLLKLPDGTVKVLVEGTARAKISKFTDREDYHEAYAAALQEPEEDAVEIEALARSVVPDFENYVKLNKKISPEVVGAASQIDDYSKLADTVASHLAIKIPEKQEMLSVLSVRERLEKALSFMEAEISVLQVEKRIRSRVKRQMEKTQREYYLNEQMKAIQKELGDSEDGRDEVAEIEERITKTKLSKEAREKALAELKKLRSMSPMSAEATVVRNYLDWLLSIPWGKKSKVKQDLNFAQEVLDAEHFGLGKVKERIVEYLAVQARSTKIKGPILCLVGPPGVGKTSLARSIAKATGREYVRMSLGGVRDEAEIRGHRRTYIGSMPGKVIQSMKKAKKSNPLFLLDEIDKMGQDFRGDPSSAMLEVLDPEQNATFMDHYLEVEYDLSNVMFVTTANTMNIPVPLLDRMEIIRIAGYTEDEKLEIAKRHLLPKAIKDHALQPKEFSVTEDALRNVIRHYTREAGVRSLEREVMTLARKAVTEILKTKKKSVKITDKNLSDYLGVEKFRFGQIDGEDQVGVVTGLAWTEVGGELLTIEGVMMPGKGRMTVTGNLRDVMKESISAAASYVRSRAIDFGIEPPLFDKRDIHVHVPEGATPKDGPSAGIAMVTAIVSVLTGIPVRKDIAMTGEVTLRGRVLPIGGLKEKLLATLRGGIKKVLIPEENAKDLAEIPDNVKNNLEIVPVSRVGEVLKHALVRQPEPIEWTEQENPTAVPPVEDEAGASLAH |
| 4005 | sp|B5YFG2|LON\_DICT6 | MEERELNQTQDIPEVLPILPLRETVVYPQMLIPLIVGREKSIRLVEDALSGNKLIGMCMQKTPVEDPTPDDIYRIGTVGIIVRSLRFPDNTLRLFVQGLQRIRVIEFLETEPYFKAKVEVIEEKVEKTVEIEGMMRNLLNLFQKMASLIPQFPEELLINAMNIQEPGRLADFIAFNTNLNINEKQEILETIDVKERLQKVTYYLTRELEILEIANKIQNEVKNEIEKSQKEYFLRQQMKAIQKELGEIDPREMEINELRQKLQEAKLPPEAMKEAERELERLSLMPPGSAEYTVTRTYLDWLISLPWAISTEDNLDIKRAEEILNEDHYDLEKVKERILEYLAVRKLKSDMKGPILCFVGPPGVGKTSLGKSIARALGRKFVRISLGGIRDEAEIRGHRRTYVGALPGRIIQGIRKAESNNPVFMLDEIDKLGSDFRGDPAAALLEVLDPEQNNAFVDNYLGVPFDLSKVMFIATANVLYTIPPALLDRMEVIELPGYTEYQKMGIAKGFLIPRQLKEHGLEKEQIEFSDDAIRKIIREYTREAGVRNLEREIASIIRKVAKGIAEGSITEKVIVKVEDVPKYLGPEKYTYGMKGEKDEVGVATGLAWTEAGGDILFVEALVVEGKGNLILTGKLGEVMQESAKTALSYVRSKLKDLNVSYELLEKADIHVHVPSGAIPKDGPSAGVTIATAIASALTRRPVKKDIGMTGEITLRGKVLPVGGIREKVLAAHRAGLTAVIMPKENKKDLEEIPEEVKKEITFYFVEHADEVLNLALLEVKESAEQRNPERIG |
| 4006 | sp|Q2NJE3|LON\_AYWBP | MKTKSKKLKSDLSIGEFEDIFQEIPEQLPVVVISEIMPIPNVDFRIEVSDNSYLKALKESETNANSFVILLTQKGLSHNKPKLTNLQRYGVLAQIITKVKIPHGDFKVRFRILQRVKIDKFLQKEPFLKVSYEKVKTVYGSIEEEKALIKLVIEKIMDKPFQLLVQNTNNFLDIIKTEPETENITDIIIFNLKIDDLDKYKYLKESHLNKRIFYILQDIQSLLIGLDLEQKINEKVKQSIDENQKEFYLREKMKAIQLELGDKAKKEEEIAELRDKIKKTPLPPEIKKKALQELSRYQTSSLMAESFVIKNYLDFLLELPWGKTSQDENDLVAIEKSLNNQHYGLQKVKERILEYAAVKIMTKKNPQNILCLVGPPGVGKTSLASSIAKALGRQFVRQSLGGLKEESEIRGHRRTYIGAMPGRILAGIRDAKTVNPVFLLDEIDKLVTNYNFDPASALLEVLDPQQNINFMDHFLSEPFDLSQVLFIATANYLDNVPEALKDRMEIIEVSSYTEKDKINIASKYLLKKQLKNHGITDTNLVIDNDTILYLIRHYTKEAGVRELDRILAELARKTVKECLIKKKEQVIITTKNVTKYLGKEKYLNLLDEQKEKIGSTNGLAYTYFGGDLLPVEVTYYKGKGQLVLTGKLGEVLKESAYTALSFIKANCQNLGIDANIFAENDFHIHLPEAAIPKDGPSAGITIATSLVSAITQKYIKKGLGMTGEITLRGNILAIGGLKEKAIAANRSGLDTIFIPQENLKDIEDIPEEVRNKLNIIPVSNISDVFSQVFVV |
| 4007 | sp|B5RL78|LON\_BORDL | MKSREIEYFMEEIKDTVSKEKKRSKNSGGILPHFDKPVRVPLIAVPSHPVFPSMFIPIVIVSDIDMKAVDYVIKGNGIISLFVLRDKFLEKSGNNKDGKLTINYQKDIYSVGVTAKIVKKINLPDGGYNIFVSTIDRVKFVKVVLNEDFPIIEVDYLKQIPIKKYDVNLKAIYSSILLKTKEIFSHRKMPEFQLNMVNIEDKGRLCDVVAGMIASSKESHQEVLETLSVKDRLKKVLELLYEELNLIEIQNKIAKGIQEKLEKQQKEFFLKEQLKAIKTELGVGDEKNSEFLKMKSKIDALALKGEALDAVGRELEKFSFLERHSSEYIVVRNYLELITNLPWEDTKVDFDKFNLQRAEKILDKTHYGMREVKDRILEYISVLKLRKSQKGAIMLLVGPPGVGKTSIGAAIAEVLNTKFFRFSVGGIRDESEIKGHRRTYVGALPGKIIQGLRITKTNSPVFLIDEIDKVSSSHYGDPFSVLLEVLDPEQNVNFRDHYLDLPFDISNVFFILTANSLETIPTPLLNRMEVIQLSGYVDDEKIEIARKYLIPKVLKENGVDKDSLKFQSSSLVQIAREYARDNGLRNFEKYLKQIVRKIARKLVEDQSVKAYQISKENLEEYIGIPVFRKEKFLDKAMSPGMVMGLAWTNYGGSTLIIETVKTESKSPGIKLTGRLGDVMKESANIAFTYVNSISNELKVHKSFFEKYMIHLHIPEGATPKDGPSAGITIASAFISLALNKTVRPNLAMTGELSLTGNVMAIGGLKAKIIAAKRNGVEHIIIPKANKVDLDDIPINIKNGINFHLVDSMKEVIKLLF |
| 4008 | sp|Q9SND6|M3K20\_ARATH | MEWVRGETIGFGTFSTVSTATKSRNSGDFPALIAVKSTDAYGAASLSNEKSVLDSLGDCPEIIRCYGEDSTVENGEEMHNLLLEYASRGSLASYMKKLGGEGLPESTVRRHTGSVLRGLRHIHAKGFAHCDIKLANILLFNDGSVKIADFGLAMRVDGDLTALRKSVEIRGTPLYMAPECVNDNEYGSAADVWALGCAVVEMFSGKTAWSVKEGSHFMSLLIRIGVGDELPKIPEMLSEEGKDFLSKCFVKDPAKRWTAEMLLNHSFVTIDLEDDHRENFVVKVKDEDKVLMSPKCPFEFDDWDSFTLDSNPSFDSPVERLGSLVSGSIPDWSVGGSWLTVR |
| 4009 | sp|Q7UA77|GRPE\_SYNPX | MSGEASTPAQDPSVEPLDAAPVAAEPEVMSTETPAEGSLTDPAERLQQLEHELQTLKQEHETLQSQYMRIAADFDNFRKRQSRDQEDIRQQLVCSTLSEILPVVDNFERARQQLNPESEEAQALHRSYQGLYKQLVDVLKQQGVARMEVVGQLFDPTLHEAVLREESTEQPEDVVIEELQRGYHLNGKVLRHALVKVSMGPGPSADAEGAASAEAEDS |
| 4010 | sp|P42769|GSTF1\_ARATH | MVTVKLYGMAYSTCTKRVYTTAKEIGVDVKIVPVDLMKGEHKEPAYLDNYHPFGVIPVLEDEDGTKIYESRAISRYLVAKYGKGSSLLPSPSDPKAYGLFEQAASVEYSSFDPPASSLAYERVFAGMRGLKTNEELAKKYVDTLNAKMDGYERILSKQKYLAGNDFTLADLFHLPYGAMVAQLEPTVLDSKPHVKAWWAASLRVIPGRLLRNSSKEFM |
| 4011 | sp|A5F369|GRPE\_VIBC3 | MSNEEIKNKDEQLQQDAVETEAEVVGTDADIDWNQAADEIDEKEAKIAQLEAALLVSEERVKEQQDSVLRARAEVENMRRRSEQEVDKARKFALSRFAEELLPVIDNLERAIQAADGEVEAIKPLLEGVELTHKTFVDTIAKFGLKEINPHGEVFNPEFHQAMSIQESAEHEPNTVMFVMQKGYELNGRVLRPAMVMVSK |
| 4012 | sp|Q7CPZ4|GRPE\_SALTY | MSSKEQKTPEGQAPEEIIMDQHEEVEAVEPNDSAEQVDPRDEKIANLEVQLAEAQTRERDTVLRIKAEMENLRRRTEQDIEKAHKFALEKFVNELLPVIDSLDRALEVADKANPDMAAMVEGIELTLKSMLDVVRKFGVEVIAETNVPLDPNVHQAIAMVESEEVPAGNVLGIMQKGYTLNGRTIRAAMVTVAKAK |
| 4013 | sp|A6T227|GRPE\_JANMA | MQDQDKYAEQAASIEDPVTAEAASATTPTLEEQLAASQLLVQELQDSFLRAKAEVENFRRRAQEDVTRAHKFAIEGFAEMLLPVKDSLEMALQVETPSVESLKEGVEMTLKQLNAAFEKNRLLEIKPQQGDKLDPMKHQAMSLVPADQEPNTVVNTLQKGYLIADRLLRPALVTVAQEK |
| 4014 | sp|Q8CXD2|GRPE\_OCEIH | MNEKDNQTTSEPENEQEIIDVNDSGEQPEENETEQPQEEAVENDEIAKLQQEKDETYNRLVRLQAEFDNYKRRTLKEREADRKYKSQDLITELLPAIDNFERALQVEVTEENKSIIDGIMMVYRQLQEALTSQGVEPIKTEGEVFDPNLHHAVMQIEDENMDSNTVVEELQKGYQLKDRVIRPAMVKVNK |
| 4015 | sp|Q6NMS0|GSTUC\_ARATH | MLKNKKSDNSLSRDTLQIKKRKKTTMAQNGSNTTVKLIGTWASPFAIRAQVALHLKSVEHEYVEETDVLKGKSDLLIKSNPIHKKVPVLIHGDVSICESLNIVQYVDESWPSDLSILPTLPSERAFARFWAHFVDGKLFESIDAVAGAKDDAARMTLAGNLMENLAALEEAFQKSSKGGDFFGGGNIGFVDITVGAIVGPISVIEAFSGVKFLRPDTTPGLIQWAEKFRAHEAVKPYMPTVAEFIEFAKKKFSV |
| 4016 | sp|Q92GZ5|GRPE\_RICCN | MIDDNIENNEQTINDIAEEIVETANPEVTALKAEIEELKDKLIRTTAEIDNTRKRLEKARDEAKDYAIATFAKELLNVSDNLSRALAHKPANSDVEVTNIIAGVQMTKDELDKVFHKHHIEEIKPEIGSMFDYNLHNAIAQIEHPDHAPNSIITLMQSGYKIRDRLLRPATVQVVKKP |
| 4017 | sp|P64313|HCHA\_STAAN | MSQDVNELSKQPTPDKAEDNAFFPSPYSLSQYTAPKTDFDGVEHKGAYKDGKWKVLMIAAEERYVLLENGKMFSTGNHPVEMLLPLHHLMEAGFDVDVATLSGYPVKLELWAMPTEDEAVISTYNKLKEKLKQPKKLADVIKNELGPDSDYLSVFIPGGHAAVVGISESEDVQQTLDWALDNDRFIVTLCHGPAALLSAGLNREKSPLEGYSVCVFPDSLDEGANIEIGYLPGRLKWLVADLLTKQGLKVVNDDMTGRTLKDRKLLTGDSPLASNELGKLAVNEMLNAIQNK |
| 4018 | sp|Q13X33|HFQ\_PARXL | MSNKGQLLQDPFLNALRKEHVPVSIYLVNGIKLQGNIESFDQYVVLLRNTVTQMVYKHAISTVVPARPVNFHPDSEQS |
| 4019 | sp|Q1MGZ1|HFQ\_RHIL3 | MAERSQNLQDLFLNTVRKQKISLTIFLINGVKLTGVVTSFDNFCVLLRRDGHSQLVYKHAISTIMPGQPMQMFESEEAAS |
| 4020 | sp|A1RFR7|HFQ\_SHESW | MAKGQSLQDPFLNALRRERVPVSIYLVNGIKLQGQVESFDQFVILLKNTVSQMVYKHAISTVVPARPFNVTGHQNAQGGYGPQDDVPSGE |
| 4021 | sp|Q3SIN9|HFQ\_THIDA | MAKEHNHLQDVFLNTLRKERIPVSVFLVNGIKLMGRIESFDQFVVLLKGQDQAAQMIFKHAISTISPSREVVLPQRDAEA |
| 4022 | sp|B4F266|HFQ\_PROMH | MAKGQSLQDPFLNALRRERVPVSIYLVNGIKLQGQIESFDQFVILLKNTVSQMVYKHAISTVVPSRPVSHHSNTGTNQAGTNYSGGNATQQDDVAE |
| 4023 | sp|Q0AHG1|HFQ\_NITEC | MGVKGQLLQDPFLNVLRKEHIPVSIYLVNGIKLQGHIDSFDQYVVLLRNSVTQMVYKHAISTIVPGKAVSIPVPAETLPE |
| 4024 | sp|B9DNK1|GRPE\_STACT | MTEKDQSVNNEEFAEKEDNTAKDSNTDEQIEKTASEDDVQNDSSAVDDKEKEIQQLKEEVNEQEEKYLRLYAEFENYKRRIQNENQTLKTYQAQCVLTDILPTIDNIERALQIEGEDESFKSLQKGVQMVYESLLRALEENGLEKIEAVGQQFDPNFHQAVMQDEDDSFESNAVTQELQTGYKLKDRVLRPSMVKVNQ |
| 4025 | sp|Q8CP16|GRPE\_STAES | MSEKDQSVNNTEEDFNVETEDNQNDTNIENSVSNTDNSEANASDSENNSEESIKDEESESQDTKIKELEKLANDNEEKYLRLYAEFENYKRRIQKENQINATYKAQGVLTDILPSIDNIERALQIEGDDESFKSLQKGVQMVHESLLRALKDNGLEEILAEGKEFDPNLHQAVVQDDNPDFKSGEVTQELQKGYKLKDRVLRPSMVKVNQ |
| 4026 | sp|A1SA21|HFQ\_SHEAM | MAKGQSLQDPFLNALRRERVPVSIYLVNGIKLQGQVESFDQFVILLKNTVSQMVYKHAISTVVPSRPFNVGSHQGGSSNYNAQQDDSAGEQ |
| 4027 | sp|A9IVD2|HFQ\_BART1 | MAERSQHLQDVFLNTVRKQKISLTIFLVNGVKLTGIVTSFDSFCVLLRRDGHAQLVYKHAISTIMPGQPVQMFEGESPE |
| 4028 | sp|Q04ZZ4|HFQ\_LEPBL | MSAKNNIQDQLLNTARKDKLDLTIYLLNGVPLKGKVVSFDNFTIVLEQENKQSLVYKHAISTIIPAKIIKLYTEETKDAVQG |
| 4029 | sp|Q14IJ3|HFQ\_FRAT1 | MSRISSLQDPFLNALRKEKVSVSVYLVNGIKLQGQVEAFDQFCIVLRNTVNQMVYKHAISTIVPAKSVRMIYNSFNPYHQNSNDEQDENVDDIHSDDLEIQENEGNIHE |
| 4030 | sp|P44437|HFQ\_HAEIN | MAKGQSLQDPYLNALRRERIPVSIYLVNGIKLQGQIESFDQFVILLKNTVNQMVYKHAISTVVPARSVSHHNNNHHTAPTEAVENVETQAE |
| 4031 | sp|Q9A7H8|HFQ\_CAUVC | MSAEKKQNLQDTFLNSVRKSKTPLTIFLVNGVKLQGVVSWFDNFCVLLRRDGQSQLVYKHAISTIMPAQPVQLYEPSADADD |
| 4032 | sp|A4SLY0|HTPG\_AERS4 | MTQSVHAETHGFQTEVKQLLSLMAHSLYSNKEVFLRELISNASDAADKLRFKALSDASLFENDGQLRVRLVVDKENRTLTISDNGIGMTRDQVIEHLGTIAKSGTAEFFKNLSGDQGRDSQLIGQFGVGFYSAFIVADKVTVVSRAAGTAPEQGVQWESEGEGSFTVADVTKEGRGTDVILHLRAEEEEFLDDWRLRAVVAKYSDHISVPVEMFKEGTPDREEDGETVVGTPGEWEQVNRATALWTRNPKEIKDEEYQEFYKHVAHDFEDPLLWGHNRVEGAQEYTSLLYVPARAPFDLYNREQKHGLKLYVQRVFIMDDAEQFMPTYLRFVKGVLDSNDLPLNVSREILQDNKVTVSLRKACSKRVLTMLAKLAKDDAEKYAKFWSEFGNVLKEGPAEDYANREEIAKLLRFASTAGEGEAQTVSLEDYVGRMKEGQQKIYYITADSFAAAKNSPHLEIFRKKGVEVLLMWERVDEWLMSHLTEFDGKQLVSVTRGELDLGDLEDEASKQAQEEAEKANAGLVERVKTSLGEAVKEVRVTHRLTDSPSCIVTDNHGMSTQMIKLMRAAGQPVPEQKYILELNPDHALVKKLDTIEDEALFGEWVTLLHEQAQLAEQGGLNDPASFVSRINRLLLQA |
| 4033 | sp|P04793|HSP13\_SOYBN | MSLIPSIFGGRRSNVFDPFSLDVWDPFKDFHFPTSLSAENSAFVNTRVDWKETPEAHVFEADIPGLKKEEVKVQIEDDRVLQISGERNLEKEDKNDTWHRVERSSGNFMRRFRLPENAKVEQVKASMENGVLTVTVPKEEVKKPDVKAIEISG |
| 4034 | sp|Q65CZ5|HTPG\_BACLD | MAKREFKAESKRLLDIMINSIYSQKEVFLRELISNASDAIDKIYYKALTDDSLTFNKDDYYIKISADKENRTLTIADTGIGMTKEELEEHLGTIAKSGSLAFKQENELKDGHDIIGQFGVGFYAAFMVADTVTVITKAHGSDEAHQWESAGADGYTIEPAAKESAGTDVILKLKENTDDENYDEYLDVHRLKAIIKTYSDFIRYPIKMDVAVNKPKEGAENEFEEVQEEQTVNSMVPIWRKNKSELKDEDYEAFYKEKHYGFDKPLAHIHTSVDGAVRYHAILFIPENIPFNYYTKEFEKGLELYSNGVLIMEKCPDLLPDHFSFVKGMVDSEDLSLNISREMLQHDRQLKLIAKNISKKIKNELKSLLKNDREKYESFYQSFGRQLKFGVYNDFGAHKDLLKDLLLFYSSKEKKLVTLEEYVSRMPEDQKYIYYASGDSYDRIEKLPQTELVSEKGYEILYFTEDIDEFAIKMLANYQEKEFKSVSSGDLGIENDDEQNQSDGDDSQYKDLFEEMKKTLDGKVKSVRASKRLKTHSVCLAADGEVTIEMEKILNAMPDNQHVKADKVLEINTNHEVFKTLQNAFDNDKDKFKLYTGLLYNQALLIEGLPIEDPVEFTNDICKVMA |
| 4035 | sp|Q2SZZ0|HTPG\_BURTA | MTQQTMSFQAEVKQLLHLMIHSLYSNKEIFLRELVSNASDAADKLRFEALENNALYESDPNLRIRLSFDKAARTLTIDDNGIGMSRDEAIANLGTIARSGTKEFFSKLSGDQQKDAALIGQFGVGFYSGFIVADKITVETRRAGLPASEGVRWESAGEGDFSVDTIERAARGTTITLHLREGEDELLSSYRLKSIVQKYSDHVALPILMKKEEWDQEKGEMVEKDEDETVNQASALWTRAKSDVTEEQYKQFYQHVAHDHQDPLAWTHNRVEGRSEYTQLLFVPSHAPFDLWNRDYRGGLKLYVKRVFIMDDAEQLLPQYLRFIKGVVDSSDLPLNVSREILQESRDVKAIREGVTKRALSMLEELANAEDDAGKEKYKTFWSAFGQVLKEGVGEDHANRERVAKLLRFASTHGDTDAQDVALADYVARMKPEQTKIYYVTADTWQAAKNSPHLEVFRKKGVEVLLLTDRVDEWMLSFLHEFDGKPLASVARGDLDLGALNDDEKKAQEETGEAMKPVVDKMKETLGGKVKDVRVTFRLTDSPSCLVADDNDMSGYLQRMLKAAGQNAPSFQPILEINPEHPLVKALKADGADFGDWCHLLFDQALLAEGGALEDPASFVKRTNALLLSRAA |
| 4036 | sp|Q7VFD7|HTPG\_HELHP | MATKHQFQTEITQLLDLMIHSLYSHKEIFLRELISNASDALDKLSYLTLTQENLKTLSFEPRIDISFDEEKKTITIEDNGIGMNENDMKEHLGIIAKSGTKSFLSQLSGDKKKDSALIGQFGVGFYSAFMVAHRVVVQSKKAGEEKAYAWVSEGKGEYEIGECVKESQGTQITLYLREEDAHFASRWEIEGIIHKYSEHIAFPIYLAFVESKFEGEGENKKEIKENKQSQINTAKALWKIPKAELKDTDYKEFYATLSHDNNEPMRWIHTKVEGNLEYTTLFYIPQKAPFDLFRVDYQSGVKLYVKRVFITDDDKELLPPYLRFVRGVIDSEDLPLNVSREILQQNKILANIKSASTKKILSEITNIAKNEADYKTFYEQFGKVLKEGLYGDYENKEKILELLRFDSFKSEYISLKAYKESMGNEQKSIYYMLGENKDALKNAPLLEKFAQKGFDVLLLSDEIDAIVMPMVGEYDKVPLKSINSKEALAELGEESIDEATQNAYEPLIKGFKDALGEQIAEVKLSSLGDAPLTLIKEDNNPMMANLMAQMGQKVPETKPILQLNITHPLFEKLKTAQEDKIKQSALLLFGAALILEGSTLKNAKDFNTELNSLLLQSL |
| 4037 | sp|Q6ARM0|HTPG\_DESPS | MTEAKNYEFQAETKKLLDIVINSLYTERDVFVRELISNSADALEKMRHEALTCQEVLDEDLPLEITIDLDEEAHTLTISDSGIGMTEQELVNNLGVIAHSGSGSFYAELAEAVKKDVNLIGQFGVGFYAAFMAGNKVRVQTRSWDGSQGHEWLSEGAGSFTITPLDGLARGTRIVVELKDDAHEYAQDWKIKNVIEQYSSFVSFPIKLKGEVVNTVQALWSRSKSEISDEEYNEFYKFIGNATEDPSYRLHFSADAPLSIKSLLFVPKENFEVMGFGRVEPGVNLYCQRILIDQHSENILPGWLRFLKGVVDSEDLPLNISRQSLQDNALVSKIRRVVTKRFLKYLAEEATRDESQYLQFWSTFGIYLKEGVTTDYEYQKELGKLLRFETSKSELGVPVSLADYLLRMNPDQEKIYYINGASRAAIEAGPYVEMFKKKDIEIVYTLDPIDDFVLSHLQEFEGKKLVSADGADISLDKEEAEDALVDESGVDKAELAELLTWMKEELKDEVGDVLSSHRLVDAPAMIVNADGFMSASMERVLAASRKEQGIAGVDGSKKHLEINGKNPLIKQLAELRKADAGFAGEVAHQILDNAMIQAGLVVDPLKMVARNYKILDRAVSRA |
| 4038 | sp|A8HVS4|HTPG\_AZOC5 | MTTAEAAAPESRTFEADVAKLLHLMVHSVYSDKDVFLRELISNAADACEKLRYEAITTPALLGEDARPRITLAIDAEGGRLTVEDNGIGMSRDEMVEALGTIARSGTKAFMERIEAAAGGEKAELIGQFGVGFYSAFMVAEKVDVISRRAGADTANIWSSDGKGAYTVGEIDVAQAPARGTRVVLHLNEDGKAYADRFRIERIVKEQSGHVPVPIYIVEKLDAEPEEIADGVALWTKSKSDISAEDYADFYRSVAGQFDQPALTVHFRAEGRHEYTALVFVPSTKPFDLFEPERTGRVKLYVKRVFITDDAELLPRYLRFVRGVVDSADLPLNLSREMLQDSAILAAIRKGVTGRVLTELEKLAQSDAEAYAGIWSNFGAVLKEGLYEDYERRAQLLNLARFKTTTSGTAADTGWRTLKDYVADLKENQTAIYYITGDLARVEHAPQLEGFRARGVEVLLLPDQVDSFWVTAGVDYEGKPFKSVTQGAADLSLIPLPKSDEAETPEPEAKDTGDFIAFVKETLGDQVADVRASDRLTTSAVCLVAPESGIDRRLEKLLASAGRLGDAAKPVLEINPRHPLVAALAAHGASDSNFRADAAHLLLDQARVLDGDQPSDPQAFAERLMRVMQRGLPTA |
| 4039 | sp|A2S869|HSLU\_BURM9 | MSTMTPAEIVSELDKHIIGQAKAKKAVAVALRNRWRRQQVAEPLRQEITPKNILMIGPTGVGKTEIARRLAKLADAPFIKIEATKFTEVGYVGRDVDSIVRDLIEISVKQTRETEMRKVRSKATDLAEDRILDVLLPQPRAVGFGASAEHANDDNNATRQTFRKRLREGQLDDKEIELDIEQPAVGMDIMAPPGMEEMTEQIRSMFSNLGSGKKQRRKVKIREALKLLTDEEAAKMLNDEEVKTKAVQNVEQNGIVFLDEIDKITSRNHEGGGGEVSRQGVQRDLLPLVEGTTINTKYGMVKTDHILFIASGAFHLAKPSDLIPELQGRFPIRVELDSLSVKDFEAILVATDASLVKQYQALLATEDVKLEFADDGIRRLAEIAYAVNEKTENIGARRLYTVIEKLLEEVSFAAGNHAGQSVTIDSAYVDRALGEVSKDEDLSRYVL |
| 4040 | sp|Q5NHT8|HTPG\_FRATT | MSEKKYTFETEVDKLLHLVIHSLYSNREIFLRELVSNSSDAIEKLRYESISNAALNEDDTDYAIRIDFDKDAKTITVSDNGIGMTEEEVIENLGTIAKSGTKKFLESLTGDKSKDNELIGQFGVGFYSSFIVADKVTVRTRKAGQDKSQATKWVSDAQNGFTVETITKEKRGTEVILHIKKEHLDLLEYHVLKGLVNKYSDCINTSIQMKKVEYDKDGKQTVKDEYETVNNTKAIWLRSKDEVTDEEYQEFYKYISHDFADALMWIHNKVEGNLEYNSLLYIPQNKPFDFWNRDKDYGLSLYVRRVFIMENKELLPPYLRFVKGVIDSADLPLNVSREILQHNKVIDKIKKAITTKILSELKKLASKDKEKYQKFWDSFGQVLKEGVSDDYSNKEKIAGLLRFATTQSGDSKQTVSLADYISRMKEGQDTIYYITSDSYKAAANNPQLEAFKKKGIEVILMTDRIDEWMMSTLTEFDGKHMKSIIKGDIDLDRFETPENKEKFEKEAKDFEKVLKEIKEVLKDKVEDVRLSKRLTDSPSCVVVNDYGMSLHMQKMMEEAGQSFMPGMGMKPILELNAEHNLVQKLKNEADTEIFADLSELLLLQAMFVEGAKIEDPMAFVKLVNKYIR |
| 4041 | sp|B0CJH9|HSLU\_BRUSI | MSNFSPREIVSELDRFIIGQKDAKRAVAIALRNRWRRQQLEGQMREEVMPKNILMIGPTGVGKTEISRRLAKLAGAPFVKVEATKFTEVGYVGRDVEQIIRDLVEIAITLVREKRREDVKAKAHLNAEERVLDALVGKTASPATRDSFRKKLRNGEMDDKEIEIEVSDSGASPNFEIPGMPGANIGVLNISDMLGKAMGGRTKTRKTTVKDSYPILINDESDKLLDQDQIVQEALRVSEDEGIVFIDEIDKIAAREGGSGAGVSREGVQRDLLPLVEGTTVATKYGPVKTDHILFITSGAFHVSKPSDLLPELQGRLPIRVELSALTREDFRRILTETEASLIKQYIALMETEEVKLEFSDDAIDALADIAVDLNATVENIGARRLQTVMEKVLDEISFTAPDKAGATFIIDAAYVKEKIGGLAKNTDLSRFIL |
| 4042 | sp|P26791|HSP70\_DAUCA | MASKGGKAIGIDLGTTYSCVGVWQNDRVEIIANDQGNRTTPSYFAFTDTSRLIGDAKNQVAMNPSNTVFDAKRLIGRRFNHPSVQSDMKLWPLQVIPGPGEKPMIVVNYKGESKQFAAEEISSMVLIKMLEIAEAFLGHSVNDAVVTVPAYFNDSQRQATKDTGVIAGLNVMRIINEPNCAQIAYGLDKKSSNPPEQNVLIFDLGGGTFDVSLLTIEEGIYEVKAPKSDTHLGGEDFDNRLVNRFVTEFLTNNKKDIRWECEALRRLRTACERAKRTLSSSTAQTTIEIDSLYEGVDFYTTITRARFEELNMDLFKKCMDPVEKCLRDSKIDKAQVHEVVLVGGSTRIPKVQQLLQDFFNGKELCKSINPDEAVAYGAAVQAAILSGEGNERSDLLLLDVTPLSLGLETAGGVMTVLIPRNTTIPTKKEQIFSTYSDNQPGVLIQVYEGERARTRDNKLLGKLLGKFELTGIPPAPRGVPQINVVFDIDANGILNVFAEDKTAGVKNKITITNDNGRLSKDEIEKLVKEAEKYKAEDEEVKKKVEAKNALENYAYNMRNTIKDDKIPGKLDAGDKEKIETAVNEAIEWLEKNQLAEVDELEDKLKELEGLCNPIIARLYQGRGDVPIGGPGDMPGGGYGGSRGSSGAGPKIEEVD |
| 4043 | sp|Q89A93|HTPG\_BUCBP | MTANKNQKKTYNFKSETKELLHLMIHSLYSNREIFFRELISNAADAIDKLKFNAISAPELYENDTNLYIRIFSNKNNNSLTISDNGIGMKYEDIINNLGTIAKSGTKEFIKTLNKNNKIKNDLIGQFGVGFYSSFIVSEKVIVKTRFAGLKENQGVIWTSDGKGTYEVNEINKKERGTEVTLYLTKDHYEFLETWKIQNTVSKYSDHISIPIELNTYDEKEKTYFWKQINQAEAIWTRPKSEITELQYKNFYKKIANDTNDPLTWTHNKVEGNQEYTILLFIPSKSAWDIWNRDNKHGLKLYVKRVYIMDDAEQFLPNYLRFVKGIIDSNDLPLNVSREILQDHKLVYNLKKSLTKKVLQVLHSLSQNVSKYEIFWKQFGLILKEGPAEDSENRTSISNLIRFSSLLNNTQKPTMSLENYVKNMKQNQEKIYFITADNYASAVSSPHLEFFKKKNIDVLILSDKIDEWMMNYLIEYNEKKFQSVSKDDKSIEKLVHEQNSQNETYQENMNDFLNRAKKTLSDKIKDIRFTHKLTNTPAMVITDSNEMSTQMAKLFSAAGQTVPTIKYILEINPNHLLIKKINNEKNEKKFKNWINFLFEQCLLAEKNTLDNPNKFIARINDLLINN |
| 4044 | sp|O81822|HS177\_ARATH | MDLEFGRFPIFSILEDMLEAPEEQTEKTRNNPSRAYMRDAKAMAATPADVIEHPDAYVFAVDMPGIKGDEIQVQIENENVLVVSGKRQRDNKENEGVKFVRMERRMGKFMRKFQLPDNADLEKISAACNDGVLKVTIPKLPPPEPKKPKTIQVQVA |
| 4045 | sp|B8F5X3|HTPG\_HAEPS | MSTNQETRGFQSEVKQLLQLMIHSLYSNKEIFLRELISNASDAADKLRFKALSQPELYEGDGELRVRISIDEALGTITISDNGIGMSREQVIDHLGTIAKSGTKEFLNALGSDQAKDSQLIGQFGVGFYSSFIVADKVTVRTRAAGSDASQGVLWESAGEGDYTVADIEKAGRGTDVILHLRDDEKEFLSEWRLRDIIGKYSDHIGLAVEIQTKEYDDEGKETGTKWEKINKAQALWTRSKNEISDEEYKEFYKHISHDFADPLIWSHNKVEGKQEYTSLLYVPSKAPWDLFQREQKHGLKLYVQRVFIMDDVEVFMPNYLRFMRGLLDTNDLPLNVSREILQENKVTQSLRTALTKRSLQMLEKLAKDNIEQYQQFWNAFGLVLKEGVGEDFANKNQVAALVRFASTHTDSSEQAVSLSDYIARMKEGQKAIYFLTADSYQAAKNSPHLELFNKKGIEVLLLSDRIDEWFISHLTEFDGKPLQSITKSDLDLGDLADKEEEETQKVQEAEFASFLERAKGYLGERVKKVVLTHRLTDTPAVVSTDSDEMTTQMAKLFAAMGQQAPEVKYTFELNPEHSMVKRIADIADEAEFNDWIELLFEQALLAERGTLENATAFIKRMNKLLGA |
| 4046 | sp|P9WMJ7|HTPG\_MYCTU | MNAHVEQLEFQAEARQLLDLMVHSVYSNKDAFLRELISNASDALDKLRIEALRNKDLEVDTSDLHIEIDADKAARTLTVRDNGIGMAREEVVDLIGTLAKSGTAELRAQLREAKNAAASEELIGQFGIGFYSSFMVADKVQLLTRKAGESAATRWESSGEGTYTIESVEDAPQGTSVTLHLKPEDAEDDLHDYTSEWKIRNLVKKYSDFIAWPIRMDVERRTPASQEEGGEGGEETVTIETETLNSMKALWARPKEEVSEQEYKEFYKHVAHAWDDPLEIIAMKAEGTFEYQALLFIPSHAPFDLFDRDAHVGIQLYVKRVFIMGDCDQLMPEYLRFVKGVVDAQDMSLNVSREILQQDRQIKAIRRRLTKKVLSTIKDVQSSRPEDYRTFWTQFGRVLKEGLLSDIDNRETLLGISSFVSTYSEEEPTTLAEYVERMKDGQQQIFYATGETRQQLLKSPHLEAFKAKGYEVLLLTDPVDEVWVGMVPEFDGKPLQSVAKGEVDLSSEEDTSEAEREERQKEFADLLTWLQETLSDHVKEVRLSTRLTESPACLITDAFGMTPALARIYRASGQEVPVGKRILELNPSHPLVTGLRQAHQDRADDAEKSLAETAELLYGTALLAEGGALEDPARFAELLAERLARTL |
| 4047 | sp|P04792|HSPB1\_HUMAN | MTERRVPFSLLRGPSWDPFRDWYPHSRLFDQAFGLPRLPEEWSQWLGGSSWPGYVRPLPPAAIESPAVAAPAYSRALSRQLSSGVSEIRHTADRWRVSLDVNHFAPDELTVKTKDGVVEITGKHEERQDEHGYISRCFTRKYTLPPGVDPTQVSSSLSPEGTLTVEAPMPKLATQSNEITIPVTFESRAQLGGPEAAKSDETAAK |
| 4048 | sp|A4VGE9|HSLU\_PSEU5 | MSMTPREIVHELNRHIIGQDDAKRAVAIALRNRWRRMQLPAELRQEVTPKNILMIGPTGVGKTEIARRLAKLANAPFLKVEATKFTEVGYVGRDVESIIRDLADAALKMLREQEVHKMRHRAEDAAEERILDALLPPARPVGFSEEPVQSGDSNTRQLFRKRLREGQLDDKEIDIEVAESPAGVEIMAPPGMEEMTNQLQNLFANMGKGKKKSRKLKIKEAFKLIRDEEAARLVNEEDLKARALEAVEQNGIVFIDEIDKVAKRGNTSGADVSREGVQRDLLPLIEGSTVNTKLGMVKTDHILFIASGAFHLSKPSDLVPELQGRLPIRVELKALSPQDFERILTEPHAALTEQYRELLKTEGLHIEFLEDGIKRIAEIAWQVNEKTENIGARRLHTLLERLLEEVSFSAADLAGKQQGEPIRIDAAYVNEHLGELAQDEDLSRYIL |
| 4049 | sp|A5EX25|HSLU\_DICNV | MEKLLGYRDLNMTPREIVEELDRHIIGQKHAKRAVANALRSRWRRKQVAEPLRSEITPKNILMIGPTGVGKTEIARRLAKLAEAPFIKVEATKFTEVGYVGRDVDSIIRDLVETSIKLEKNRAKERVKSKAREAALERVLDVLVPRKKQTAWTGEEEIDPARKMYRERILREEMNDTVIEIETNQSMSANVEIMTPPGMEEMSSQLSEMFKSFGREKKTKRKMTIAKALIQLAEEEAEALVSHEEIKSAAIDNAEQNGIVFIDEIDKVARRSDVGGADVSREGVQRDLLPLVEGCTISTKYGMIKTDHILFIASGAFHLAKPSDLIPELQGRLPVRVELDALTADDFKRILTEPDASLIKQYTALFATEQLHLEFTEDGINKIAEIAYHVNKTTENIGARRLHTLIERLTDSLSFDAADRRDGDRVIIDAAYVEKTLGEISNNEDLSRFIL |
| 4050 | sp|Q08DJ8|HSF1\_BOVIN | MDLPVGPGAAGPSNVPAFLTKLWTLVSDPDTDALICWSPSGNSFHVLDQGQFAKEVLPKYFKHSNMASFVRQLNMYGFRKVVHIEQGGLVKPERDDTEFQHPCFLRGQEQLLENIKRKVTSVSTLRSEDIKIRQDSVTKLLTDVQLMKGKQESMDSKLLAMKHENEALWREVASLRQKHAQQQKVVNKLIQFLISLVQSNRILGVKRKIPLMLNDGGPAHPMPKYGRQYSLEHIHGPGPYPAPSPAYSGSSLYSPDAVTSSGPIISDITELAPGSPVASSGGSVDERPLSSSPLVRVKEEPPSPPQSPRAEGASPGRPSSMVETPLSPTTLIDSILRESEPTPVASTTPLVDTGGRPPSPLPASAPEKCLSVACLDKTELSDHLDAMDSNLDNLQTMLTSHGFSVDTSTLLDLFSPSVTVPDMSLPDLDSSLASIQELLSPQEPPRPLEAEKSSPDSGKQLVHYTAQPLLLLDPGSVDVGSSDLPVLFELGEGSYFSEGDDYSDDPTISLLTGSEPPKAKDPTVS |
| 4051 | sp|Q6K6S5|HSFA5\_ORYSJ | MEVAAGARGGGAGGGGGGPAPFLLKTYEMVDDPSTDAVVSWSDASDASFVVWNHPEFAARLLPAYFKHSNFSSFIRQLNTYGFRKIDPERWEFANEYFIKGQKHLLKNIHRRKPIHSHSHPPGALPDNERAIFEDEIERLSREKSNLQADLWKSKQQQSGTMNQIEDLERRVLGMEQRQTKMIAFLQQASKNPQFVNKLVKMAEASSIFTDAFNKKRRLPGLDYSIENTETTSFYDDHSSTSKQETGNLLNQHFSDKLRLGLCPAMTESNIITLSTQSSNEDNRSPHGKHPECDMMGRECLPLVPQMMELSDTGTSICPSKSSCFAPPISDEGLLTCHLSLTLASCSMDVDKSQGLNANGTTIDNPTEAATATMEKDDTIDRSFDDNQKKSADSRTADATTPRADARVASEAPAAPAAVVNDKFWEQFLTERPGCSETEEASSGLRTDTSREQMENRQAYDHSRNDREDVEQLKL |
| 4052 | sp|Q9STW6|HSP7F\_ARATH | MASSAAQIHVLGGIGFASSSSSKRNLNGKGGTFMPRSAFFGTRTGPFSTPTSAFLRMGTRNGGGASRYAVGPVRVVNEKVVGIDLGTTNSAVAAMEGGKPTIVTNAEGQRTTPSVVAYTKSGDRLVGQIAKRQAVVNPENTFFSVKRFIGRKMNEVDEESKQVSYRVVRDENNNVKLECPAINKQFAAEEISAQVLRKLVDDASRFLNDKVTKAVITVPAYFNDSQRTATKDAGRIAGLEVLRIINEPTAASLAYGFDRKANETILVFDLGGGTFDVSVLEVGDGVFEVLSTSGDTHLGGDDFDKRVVDWLAAEFKKDEGIDLLKDKQALQRLTEAAEKAKIELSSLTQTNMSLPFITATADGPKHIETTLTRAKFEELCSDLLDRVRTPVENSLRDAKLSFKDIDEVILVGGSTRIPAVQELVRKVTGKEPNVTVNPDEVVALGAAVQAGVLAGDVSDIVLLDVTPLSIGLETLGGVMTKIIPRNTTLPTSKSEVFSTAADGQTSVEINVLQGEREFVRDNKSLGSFRLDGIPPAPRGVPQIEVKFDIDANGILSVSAVDKGTGKKQDITITGASTLPKDEVDQMVQEAERFAKDDKEKRDAIDTKNQADSVVYQTEKQLKELGEKIPGEVKEKVEAKLQELKDKIGSGSTQEIKDAMAALNQEVMQIGQSLYNQPGAGGPGAGPSPGGEGASSGDSSSSKGGDGDDVIDADFTDSQ |
| 4053 | sp|B5F0S2|HSLU\_SALA4 | MSEMTPREIVSELNKHIIGQDNAKRSVAIALRNRWRRMQLDEELRHEVTPKNILMIGPTGVGKTEIARRLAKLANAPFIKVEATKFTEVGYVGKEVDSIIRDLTDAAVKMVRVQAIEKNRYRAEELAEERILDVLIPPAKNNWGQAEQQQEPSAARQTFRKKLREGQLDDKEIEINLAAAPMGVEIMAPPGMEEMTSQLQSMFQNLGGQKQKPRKLKIKDAMKLLVEEEAAKLVNPEELKQDAIDAVEQHGIVFIDEIDKICKRGETSGPDVSREGVQRDLLPLVEGCTVSTKHGMVKTDHILFIASGAFQVAKPSDLIPELQGRLPIRVELQALTTSDFERILTEPNASVTVQYKALMATEGVNIEFTDSGIKRIAEAAWQVNETTENIGARRLHTVLERLMEEISYNASDLHGQNITIDAEYVSKHLDALVADEDLSRFIL |
| 4054 | sp|P38533|HSF2\_MOUSE | MKQSSNVPAFLSKLWTLVEETHTNEFITWSQNGQSFLVLDEQRFAKEILPKYFKHNNMASFVRQLNMYGFRKVVHIESGIIKQERDGPVEFQHPYFKQGQDDLLENIKRKVSSSKPEENKIRQEDLTKIISSAQKVQIKQETIESRLSELKSENESLWKEVSELRAKHAQQQQVIRKIVQFIVTLVQNNQLVSLKRKRPLLLNTNGAPKKNLYQHIVKEPTDNHHHKVPHSRTEGLKSRERISDDIIIYDVTDDNVDEENIPVIPETNEDVVVDSSNQYPDIVIVEDDNEDEYAPVIQSGEQSEPAREPLRVGSAGSSSPLMSSAVQLNGSSSLTSEDPVTMMDSILNDNINLLGKVELLDYLDSIDCSLEDFQAMLSGRQFSIDPDLLVDLFTSSVQMNPTDNIKYTKSENKGLEATKSSVVQHVSEEGRKSKSKPDKQLIQYTAFPLLAFLDGNSASAIEQGSTTASSEVVPSVDKPIEVDELLDSSLDPEPTQSKLVRLEPLTEAEASEATLFYLCELAPAPLDSDMPLLDS |
| 4055 | sp|Q32AA4|HSLU\_SHIDS | MSEMTPREIVSELDKHIIGQDNAKRSVAIALRNRWRRMQLNEELRHEVTPKNILMIGPTGVGKTEIARRLAKLANAPLIKVEATKFTEVGYVGKEVDSIIRDLTDAAVKMVRVQAIEKNRYRAEELAEERILDVLIPPAKNNWGQTEQQQEPSAARQAFRKKLREGQLDDKEIEIDLAAAPMGVEIMAPPGMEEMTSQLQSMFQNLGGQKQKARKLKIKDAMKLLIEEEAAKLVNPEELKQDAIDAVEQHGIVFIDEIDKICKRGESSGPDVSREGVQRDLLPLVEGCTVSTKHGMVKTDHILFIASGAFQIAKPSDLIPELQGRLPIRVELQALTTSDFERILTEPNASITVQYKALMATEGVNIEFTDSGIKRIAEAAWQVNESTENIGARRLHTVLERLMEEISYDASDLSGQNITIDADYVSKHLDALVADEDLSRFIL |
| 4056 | sp|O22230|HSFB3\_ARATH | MEDAGEHLRCNDNVNDEERLPLEFMIGNSTSTAELQPPPPFLVKTYKVVEDPTTDGVISWNEYGTGFVVWQPAEFARDLLPTLFKHCNFSSFVRQLNTYGFRKVTTIRWEFSNEMFRKGQRELMSNIRRRKSQHWSHNKSNHQVVPTTTMVNQEGHQRIGIDHHHEDQQSSATSSSFVYTALLDENKCLKNENELLSCELGKTKKKCKQLMELVERYRGEDEDATDESDDEEDEGLKLFGVKLE |
| 4057 | sp|B5BJK8|HSLU\_SALPK | MSEMTPREIVSELNKHIIGQDNAKRSVAIALRNRWRRMQLDEELRHEVTPKNILMIGPTGVGKTEIARRLAKLANAPFIKVEATKFTEVGYVGKEVDSIIRDLTDAAVKMVRVQAIEKNRYRAEELAEERILDVLIPPAKNNWGQAEQQQEPSAARQTFRKKLREGQLDDKEIEINLAAAPMGVEIMAPPGMEEMTSQLQSMFQNLGGQKQKPRKLKIKDAMKLLVEEEAAKLVNPEELKQDAIDAVEQHGIVFIDEIDKICKRGETSGPDVSREGVQRDLLPLVEGCTVSTKHGMVKTDHILFIASGAFQVAKPSDLIPELQGRLPIRVELQALTTSDFERILTEPNASVTVQYKALMATEGVNIEFTDSGIKRIAEAAWQVNETTENIGARRLHTVLERLMEEISYNASDLHGQNITIDAEYVSKHLDALVADEDLSRFIL |
| 4058 | sp|B1J2T7|HSLU\_PSEPW | MSMTPREIVHELNRHIIGQDDAKRAVAIALRNRWRRMQLPAELRAEVTPKNILMIGPTGVGKTEIARRLAKLANAPFLKVEATKFTEVGYVGRDVESIIRDLADAAMKMLREQEIIRVRHRAEDAAEDRILDALLPQARVTSFSEEAAQTSSDSNTRQLFRKRLREGQLDDKEIEIEVADAVGVEIAAPPGMEEMTNQLQSLFANMGKGKRKARKLKVKEALKMVRDEEASRLVNDDDLKAKALEAVEQHGIVFIDEIDKVAKRGNVGGADVSREGVQRDLLPLIEGCTVNTKLGMVKTDHILFIASGAFHLSKPSDLVPELQGRLPIRVELKALTPEDFERILQEPHASLTEQYRELLKTEGLNIEFKADGIKRLAEIAYQVNEKTENIGARRLHTLLERLLEEVSFSAGDLASAHDEAPIQIDAAYVNGHLGELAQNEDLSRYIL |
| 4059 | sp|P38531|HSF3\_CHICK | MREGSALPGAPGAAPVPGFLAKLWALVEDPQSDDVICWSRNGENFCILDEQRFAKELLPKYFKHNNISSFIRQLNMYGFRKVVALENGMITAEKNSVIEFQHPFFKQGNAHLLENIKRKVSAVRTEDLKVCAEDLHKVLSEVQEMREQQNNMDIRLANMKRENKALWKEVAVLRQKHSQQQKLLSKILQFILSLMRGNYIVGVKRKRSLTDAAGASPSKYSRQYVRIPVESGQAMAFSEHNSDDEDGNRTGLIIRDITDTLENATNGLLAVAHTSGRDRETQTALDPGLPICQVSQPNELSCAEPIPPVHINDVSKPNEMGNVAVELHTAQANAPEDPVSVIDSILNENNSGNQNDPLLDREEIQDFLNCIDASLEELQAMLSGKQYSFGSEAFSDVFNPELPALDMNLMETSPGMENIANMEDSTEDLGASERETAGSKGGQEGTESCDSSVLFQNCVLKWNFSSL |
| 4060 | sp|A4VNX8|HSCA\_PSEU5 | MALLQIAEPGQSPQPHQRRLAVGIDLGTTNSLVAALRSGVTAPLADADGQVILPSVVRYHADRVEVGACAKRAAAADPFNTISSVKRLMGRGLADVKQLGEQLPYRFRQAESQMPFIETVQGAKSPVEISAEILRALRERAEAALGGELVGAVITVPAYFDDAQRQATKDAARLAGLNVLRLLNEPTAAAVAYGLDRQAEGVVAIYDLGGGTFDISILRLTKGVFEVLATGGDTALGGDDFDHAVADWILQQAGVSEDLAPGEQRELLKIACDAKERLSVDETVQVAYAGWAGELHRETFDALIEPLIARSLRSCRRAVRDSGVELDEITAVVMVGGSTRVPKVRSSVGQLFGREPLTDIDPDEVVAIGAAIQAETLAGNNRDGEELLLLDVIPLSLGLETMGGLMEKIIPRNTTIPVARAQDFTTYKDGQSAMMIHVLQGERELISDCRSLARFELRGIPPMVAGAAKIRVTFQVDADGLLSVSARELASGVEASIQVKPSYGLTDGEIARMLEDSFRKADQDRDARALREQLVDAQRLLEAVEAALIADGERLLSAEERAAIEAQMAELRALLDSQDVSAIERQIKRLSQITDAFAARRLDSTVKAALAGRRLNDIED |
| 4061 | sp|P30947|HS90B\_RABIT | MPEEVHHGEEEVETFAFQAEIAQLMSLIINTFYSNKEIFLRELISNASDALDKIRYESLTDPSKLDSGKELKIDIIPSPQDRTLTLVDTGIGMTKADLINNLGTIAKSGTKAFMEALQAGADISMIGQFGVGFYSAYLVAEKVVVITKHNDDEQYAWESSAGGSFTVRADHGEPIGRGTKVILHLKEDQTEYLEERRVKEVVKKHSQFIGYPITLYLEKEREKEISDDEAEEEKGEEKKEEEDKEDDEKPKIEDVGSDEEDDSGKDKKKKTKKIKEKYIDQEELNKTKPIWTRNPDDITQEEYGEFYKSLTNDWEDHLAVKHFSVEGQLEFRALLFIPRRAPFDLFENKKKKNNIKLYVRRVFIMDSCDELIPEYLNFIRGVVDSEDLPLNISREMLQQSKILKVIRKNIVKKCLELFSELAEDKENYKKFYEAFSKNLKLGIHEDSTNRRRLSELLRYHTSQSGDEMTSLSEYVSRMKETQKSIYYITGESKEQVANSAFVERVRKRGFEVVYMTEPIDEYCVQQLKEFDGKSLVSVTKEGLELPEDEEEKKKMEESKAKFENLCKLMKEILDKKVEKVTISNRLVSSPCCIVTSTYGWTANMERIMKAQALRDNSTMGYMMAKKHLEINPDHPIVETLRQKAEADKNDKAVKDLVVLLFETALLSSGFSLEDPQTHSNRIYRMIKLGLGIDEDEVAAEEPSAAVPEEIPPLEGDEDASRMEEVD |
| 4062 | sp|C3LU14|HTPX\_VIBCM | MKRILLFLATNLAVVLVLSVVLNIVYAVTGMQPGSLSGLLVMAAVFGFGGAFISLLMSKSMALRSVGGVVIDTPRNEMEHWLLETVRRQANQAGIGMPTVAIYDAPDMNAFATGAKRDDSLVAVSTGLLHNMTRDEAEAVLAHEVSHIANGDMVTMTLMQGVVNTFVIFLSRFIANIVASRDSEEGEGSNMMVYFGVSMVLELVFGFLASFITMWYSRHREFHADAGAAQLVGKHKMIAALERLKMGQESHLEGSMMAFGITGKRSLSELMMTHPPLEKRIAALRNM |
| 4063 | sp|Q4L5V6|HSLU\_STAHJ | MDANGIKLTPKDIVSKLDEYIVGQDDAKRKVAIALRNRYRRSLLDEETKQEIAPKNILMIGPTGVGKTEIARRMAKVVGAPFIKVEATKFTEVGYVGRDVESMVRDLVDVAVRLVKDQKKGLVKDEAVNKANEKLVKLLVPSMKKKASNNSNPLESLLGGAIPNFGNNDDEEEETPTEEIKTKRSEIKKQLLDGKLEEEKVRIKVEQDPGALGMLGTNQNQQMQDMMNQLMPKRKVEREVPVKTARKILADDFADELIDQETANQEALELAEQMGIIFIDEIDKVATNNANSGQDVSRQGVQRDILPILEGSMIQTKYGTVNTEHMLFIGAGAFHVSKPSDLIPELQGRFPIRVELESLTVDDFYRILTEPKLSLIKQYEALLQTEEVTVNFTKEAITRLAEMAYQVNQDTDNIGARRLHTILEKMLEDLSFEAPSMPNAVVDITPQYVDDKLKSISTNKDLSAFIL |
| 4064 | sp|Q9C7X7|HSP7N\_ARATH | MAGKGEGPAIGIDLGTTYSCVGVWQHDRVEIIANDQGNRTTPSYVAFTDSERLIGDAAKNQVAMNPVNTVFDAKRLIGRRFSDASVQSDMKFWPFKVTPGQADKPMIFVNYKGEEKQFAAEEISSMVLIKMREIAEAYLGSSIKNAVVTVPAYFNDSQRQATKDAGVIAGLNVLRIINEPTAAAIAYGLDKKATSVGIKNVLIFDLGGGTFDVSLLTIEEGIFEVKATAGDTHLGGEDFDNRMVNHFVQEFKRKNKKDISGDARALRRLRTACERAKRTLSSTAQTTVEVDSLFEGIDFYSPITRAKFEEMNMDLFRKCMEPVMKCLRDSKMDKSMVHDVVLVGGSTRIPKVQQLLQDFFNGKELCKSINPDEAVAYGAAVQAAILSGEGNEKVQDLLLLDVTPLSLGIETIGGVMTTLIQRNTTIPAKKEQEFTTTVDNQPDVLIQVYEGERARTIDNNILGQFVLSGIPPAPRGIPQFTVCFDIDSNGILNVSAEDKATGKKNKITITNDKGRLSKDDIEKMVQEAEKYKSEDEEHKKKVEAKNGLENYAYNVGNTLRDMGEKLPAADKKKFEDSIEEVIQWLDDNQLAEADEFEHKMKELESVWSTIITKMYQG |
| 4065 | sp|B0K1T6|HSLU\_THEPX | MKNYTPKEIVEELDKYIVGQKEAKKSVAVALRNRYRRNLLSDDFKEEVTPKNIIMVGPTGVGKTEIARRIAKLVEAPFVKVEATKFTEVGYVGRDVDSMVRDLVEAAVRMVKEEKLKKVTEKAKKIAEDRLIDYIVGKRKKQAKNPFEMLFNYPAAEKSEETEEESMQYKREEIRQKLRNGELDNYVVEIEVTDTSTPMMEMYTNLGSEEMNINLQDIFADILPKKKKIKKVPVYEAKRILESEEAQNLIDMDEVIEEAIKRAENDGIIFIDEIDKIASSGYTAGPDVSREGVQRDILPIIEGCTVMTKYGPVKTDHILFIAAGAFNIAKVSDLIPELQGRFPVRVSLKPLTKEDFIRILKEPKNALTKQYQELLRTEGIEVKYTDEAIEAIAEVAYLINQQSEDIGARRLHTVMEKLFEELSFNAPDLKGQQIVITEEYVKEQLKDSLNKYEVNKYIL |
| 4066 | sp|Q6AEB9|HRCA\_LEIXX | MVSERSLDVLRAIVQDYVSSCEPVGSKSIVERHSFGVSAATIRNDMALLEEEELIAAPHTSSGRIPTDKGYRLFVDHLAEARPLSPAQRTAIEILLGQSVDLDDVLSRTVRLLSQLTNQTAIVQYPSLSRSRIRHIELVSLAPRRLLSVLITDSGAVEQRVIELTDELAEADIAEIRGAINGAAAGLSLADAAVRLSELPDALADRARALVAPVASALLDQIAANRQDRLMMAGAANLVRTGDDFPSSITPVLEAIEEQVVLLRLFDEMAHDQHSVAVSIGRENDGFGLTEASVMSSGYSSAGADIARVGLIGPLRMDYSGNMAAVRAVARYLSRLLGD |
| 4067 | sp|Q4JWP8|HRCA\_CORJK | MSSGTEHRRNQVLRAIVSDFIASHEPVGSKMLVDRHQLGVSSATIRNDMAVLEAEGYITQQHASSGRIPTVKGYRRFVDGINEVKPLSTPERRAILDFLEHGVDLEDVLRRSVQLLSQLTRQVAVVQMPDLRRGRVKHCELVKLGSHRILLVLITDTGRVDQRNVDLGQPISDDDLPRLRDLVNSAMVGRTLDDACTNIAALANEAKGNSMPEELRDVALVVTTVLVETLLERPNDRLILAGTPNLMRTSELSPVVEALEEQVVVLKLLNSVRDLQVQVSIGEENEDEELRGASVVSTGYGNANAVLGGMGVVGPTHLDYSGTISSVTAVAHYVSRILSEE |
| 4068 | sp|Q1C6Z1|HTPX\_YERPA | MMRIALFLLTNLAVMLVFGLVLSLTGIQSSSVQGLMIMAGLFGFGGAFVSLLMSKWMALRSVGGEVIERPRNETEYWLLETVRRQSQQVGIAMPQVAIYQAPDINAFATGARRDASLVAVSTGLLQNMSRDEAEAVIAHEISHVANGDMVTMTLIQGVVNTFVIFISRLIAQIAAGFLSGDRDGESNSPGNPMVYFAVSMVLELVFGILASIITMWFSRHREFHADAGSAKLVGREKMIAALQRLKTSYEPQEAGSMMAFCINGKSKTFSELFMSHPPLDKRIEALRSGQYLK |
| 4069 | sp|B9L0E5|HRCA\_THERP | MSVQLTERQRQILRHVVEEYLRSGRAVGSKALVERASLSVSPATVRNDMSVLEALDFLAHPHTSAGRVPTEHGLRYYVQHLMEESQLSSEEQLMIRHQFRQVEQQVPSWLKLAASVLAETSGNVGLVTPPRARVERLRHFELISLRRRVVLLVLVTQSGTIHQSLLELPQPLEQEELSALSQRLNPELRWLDRAAIERRAQGAEPTVALVLQRLAEALHFIEHQQRSELYAEGLEHVIRQPEFAQANLAHLLLEVLRGGMLLTWLLPRLDPSEEVRVLIGSDLALRELRPFSLILTAYRSGAESTGWLGVLGPQRMAYARAVAAVRFLASVVSELMSELSGGPDREGG |
| 4070 | sp|Q253K3|HRCA\_CHLFF | MSRSWISKRESKILYILLTTTELYLKTGQPVGSKTLKEYECSNLSTATIRNYFSELESEGFLKKNHISGGRIPTDLAFRYYVDHCADFSQSELPESTTRLLNQLPEESQNIVKDLQKALEILGEALQLPTCFSSPRFENDSITNIQISLVDEQRVVVILSTEFGQVFTETLWLPETSSPASVKRIETFLQSYVRKQPPTEILSQKEEDLGMTLYNEVVVRYLTRYCNFSEEDLYQTGLSKLLKYDAFKDPDTLALGLSFFENRRHMCKLLDIGMHRDRPTAFIGNELSTIFGTPNPQCAVITTPYYMNRTPLGAFGVLGPINLPYREIFQTLTIFADKVKDSLTQSFYKFKLSFRRPCPSDPKLSKEPTLLARYSSIKLLPPKETS |
| 4071 | sp|B1IA50|HRCA\_STRPI | MVTERQQDILNLIIDIFTKTHEPVGSKALQESINSSSATIRNDMAELEKQGLLEKAHTSSGRMPSVAGFQYYVKHSLDFDRLAENEVYEIVKAFDQEFFKLEDILQEAANLLTDLSGCTVVALDVEPSRQRLTAFDIVVLGQHTALAVFTLDESRTVTSQFLIPRNFLQEDLLKLKSIIQERFLGHTVLDIHYKIRTEIPQIIQRYFTTTDNVIDLFEHIFKEMFNENIVMAGKVHLLNFANLAAYQFFDQPQKVALEIREGLREEQMQNVRVADGQESCLADLAVISSKFLIPYRGVGILAIIGPVNLDYQQLINQVNVVNRVLTMKLTDFYRYLSSNHYEVH |
| 4072 | sp|Q3AW12|HRCA\_SYNS9 | MKPLSRRQEQVLQATVHHYVDTMEPVGSRTLVQRFSMPASSATIRSAMGALEQRGLLTQPHTSSGRIPSALGYRHYVDCLLPEPAATVLHLERELTGLSLGWAALDDLLLQLARRLTDFTGLMSLITRPTRTQPQLAAIRLVQSGERLLVMLVENSGHASHLNLRLPHATSDELDAIERWAEQQLRGGALNWEKLPTQLQRSGDVLRHALEHPSISAEPTTLVHGLSRLVAEPEFQSAQDLGPLLQLIDDEPMALISPGAEARVLIGQEHPQSALEACSVVQAPYRCGQEGTGHIALIGPMRMAYATACSAVERVARHLELLLS |
| 4073 | sp|P33129|HTRE\_ECOLI | MTIEYTKNYHHLTRIATFCALLYCNTAFSAELVEYDHTFLMGQNASNIDLSRYSEGNPAIPGVYDVSVYVNDQPIINQSITFVAIEGKKNAQACITLKNLLQFHINSPDINNEKAVLLARDETLGNCLNLTEIIPQASVRYDVNDQRLDIDVPQAWVMKNYQNYVDPSLWENGINAAMLSYNLNGYHSETPGRKNESIYAAFNGGMNLGAWRLRASGNYNWMTDSGSNYDFKNRYVQRDIASLRSQLILGESYTTGETFDSVSIRGIRLYSDSRMLPPTLASFAPIIHGVANTNAKVTITQGGYKIYETTVPPGAFVIDDLSPSGYGSDLIVTIEESDGSKRTFSQPFSSVVQMLRPGVGRWDISGGQVLKDDIQDEPNLFQASYYYGLNNYLTGYTGIQITDNNYTAGLLGLGLNTSVGAFSFDVTHSNVRIPDDKTYQGQSYRVSWNKLFEETSTSLNIAAYRYSTQNYLGLNDALTLIDEVKHPEQDLEPKSMRNYSRMKNQVTVSINQPLKFEKKDYGSFYLSGSWSDYWASGQNRSNYSIGYSNSTSWGSYSVSAQRSWNEDGDTDDSVYLSFTIPIEKLLGTEQRTSGFQSIDTQISSDFKGNNQLNVSSSGYSDNARVSYSVNTGYTMNKASKDLSYVGGYASYESPWGTLAGSISANSDNSRQVSLSTDGGFVLHSGGLTFSNDSFSDSDTLAVVQAPGAQGARINYGNSTIDRWGYGVTSALSPYHENRIALDINDLENDVELKSTSAVAVPRQGSVVFADFETVQGQSAIMNITRSDGKNIPFAADIYDEQGNVIGNVGQGGQAFVRGIEQQGNISIKWLEQSKPVSCLAHYQQSPEAEKIAQSIILNGIRCQIQ |
| 4074 | sp|Q9SVF3|HPP5\_ARATH | MGDEAEIKEHLKPQASSETIDKKHNVKGKRLWQKVKYQLVEFHSLPAYLRDNEYIIGHYRSEWPIKQILLSIFTIHNETLNVWTHLIGFFLFLALTIYTATKVPSVVDLHSLQHRLPDLLRKTDLHKLHSELMSRLPSSPSSWHVMDLLYNCLPERFSHGNYTDMCVLHSVREDLANLIAPLIFRPITRWPFYAFLGGAIFCLLASSTCHLLSCHSERVSYIMLRLDYAGIAALIATSFYPPVYYSFMCDPFFCNLYLGFITILGIATVLVSLLPVFQSLEFRVVRASLFFGMGFSGLAPILHKLIIFWDQPEALHMTGYEILMGLLYGLGAVVYATRIPERWMPGKFDIAGHSHQLFHVLVVAGALTHYRAGL |
| 4075 | sp|A9GHW2|HRCA\_SORC5 | MGDLSNRARKILFAAVTEFIATGDPVGSRTLARKYGLDLSAASIRNVLADLEEAGYLHQPHTSAGRIPTDRALRLFIDALVELRSLSPEQQAELSARFTEIYAGANDPLRETGRYLSELSGAAAVVAAPRAELRALAQLRFIPTKPGQLLAVLVFADGSVANRFISVDEAINEGELTRIHNLLTDVIEGRTLGEIRDLFARRLADERLQIDALRRRAFELGSKATADVTPRSEVVIEGQNRLIDLPEYADVDRLKKLMKALEEREELVDLLDRTLAAGAGEVTVFVGSEAGDLGGGQLSLVAAPYMENGRVAGTVGVLGPTRMDYAKVMPLVDATAAAMTEVRGKVK |
| 4076 | sp|Q6G564|HRCA\_BARHE | MKHKLIDDELKYLDERSRDIFRHIVEAYLNDGGPVGSRNLSRLLRQTLSPATIRNVMSDLEHLGLIYAPHVSAGRMPTQSGLRFFVDAFMEAGDLPNEERENIEAQVKEAGHAQSVEHFLVQASQVLSDLSRGAGLVLATKHEGTLKHIEFVRLDGEHALAVLVTQQGGVENRIVHLPEGVTHAQLTEATNFLNAHIQGLTLSEAKEEIARLCSETRAALDHLSHHLVETGLALWGGEGADHKIRLIVRGRSNLLEDVKAEEDLKRLRHLFDDLETRESMAQLLDLTDEGSGVRIFIGSENKLFSLSGSSLVVAPYRDSQQKVIGALGVIGPTRLNYARIVPMVDYTAQLVSQLLR |
| 4077 | sp|B7HPL5|HRCA\_BACC7 | MLTERQLLILQTIIDDFIGSAQPVGSRTLAKKDEITFSSATIRNEMADLEELGFIEKTHSSSGRVPSEKGYRFYVDHLLAPQNLPNDEIVQIKDLFAERIFEAEKIAQQSAQILSELTNYTAIVLGPKLSTNKLKNVQIVPLDRQTAVAIIVTDTGHVQSKTITVPESVDLSDLEKMVNILNEKLSGVPMSELHNKIFKEIVTVLRGYVHNYDSAIKILDGTFQVPLSEKIYFGGKANMLSQPEFHDIQKVRSLLTMIDNEAEFYDILRHKQVGIQVKIGRENSATAMEDCSLISATYSIGEEQLGTIAILGPTRMQYSRVISLLQLFTRQITDGLKK |
| 4078 | sp|B9DNK2|HRCA\_STACT | MITNRQQSILNAIVEDYVDYGLPVGSKTVIERHQVNVSPATIRNEMKILEGMGLIEKAHASSGRSPSIKGFRYYVDQLLENTSPRTEFNNQRLNKLLADYNYNLSNALSVYANELSMSTKYTTLIMKPNQSKDLITDVHLFNTVAHLVIMVIVFESGNVEHLQLAVPEKISKNRLVQIANYIKSIFNADMRNDFSDETFMHSNDYLIVNQLIDLLNQRLNDITTDIFFGGKANLIDTLNEQNVNSIQQILQYLESNKILKLFEDDNHSGIDVKIGQEIDNGLEDISIILSDYHIDNHLKGHVAVIGPTAMRYQNVIQLLYKV |
| 4079 | sp|Q5HNW4|HRCA\_STAEQ | MITKRQLSILNAIVEDYVDFGQPIGSKTLIHRHHLDVSPATIRNEMKQLEEMHFIEKTHTSSGRVPSESGIRYYVNRLLEQTSHQSQNKIQRLNQLLIENHYDSSTALTNFAHELSMKSQYATLVVRPNHKQDVINDIHLIRANNHLIILVMVFSSGHVENIHFVSHAQLNNINLNKIANFLTEHFSFNRKVLTQNIESYFSQKEELLLANEVVEMINLQIGNQSNSIYMGGKVKLIDALNESNVSSIQPILQYIESNKITELLEDISTSQINVRIGKEIDDSLSDISIVTSQYHFDESLKGQIAVIGPTAMHYQNVIQLLNRIW |
| 4080 | sp|P64396|HRCA\_BRUME | MMRPPEHQLLSSLDQRSRDIFRLIVETYLNDGDPVGSRNLSRLLPHTLSPATIRNVMSDLEHLGLIYAPHISAGRLPTQIGLRFFVDAFLEVGDLPPEERSSIEAQVRAAGTSNSVESVLTEASQVLSGLSRGAGLVLTNKTDVALKHIEFVRLEPMRALAVLVMQNGDVENRVIDLPAGISTSQLIEASNFLNAHIHGHTLSEAKSELRKLSEETRRELDQLSQELVAKGLAVWSGAGADQPARLIVRGRANLLENVHAQEDIERLRHLFDDLETKDGMVQLLDLAEAGSGVRIFIGSENKLFSLSGSSLVVAPYRDSEQRVIGALGVIGPTRLNYARIVPMVDYTAQIVSRLLR |
| 4081 | sp|Q8XIS9|HRCA\_CLOPE | MIDDRKLQILRAIIQDYISTGEPVGSRTIAKKYNLGVSSATIRNEMADLEDMGFLEQPHTSAGRIPSSRGYRLYVDRMIEFERLSSEEEGLIRNSIIDGTLYEVDKIIKQTSALLSELTKMTCIVKAPSVHKSFVKSIQLLKVDDVSILCVLVTDNGVIRNTVIKVKSVPISEELIKISKIITERLKNLTIEQINLEVISNLNRALSGYEDIVNAVLPALYESLKGDETSEVFLEGTINIFNYPEYNNIHKAKEILELLHDKKSISELISDSDDMTVKIGDEIFVPEAKECSIISAGYHVGDKSLGTIALIGPRRINYSKVLSIMTEVMKELNETLKNK |
| 4082 | sp|Q32JD0|IRAP\_SHIDS | MKNLIAELLFKLALKEEESKELCAQVEALEIIVTAMLRNMAQNDQQRLIDQVEGALYEVKPDASIPDDDTELLRDYVKKLLKHPRQ |
| 4083 | sp|Q24371|L2DTL\_DROME | MNIYNKLRAREHGYGNERTYDFALRRLSVAKEDSWRGIAPANYCPDFNPEPPIFSAKFANCDGYRHILAIANEDGKITLQDTTQRNHQPEEQSLVGPQCHFNAVFDLEWAPGQMRFVSASGDHTARLWEVAGSGIRGLNSYVGHTRSVKSAAFKRTDPAVFATGGRDGAILIWDIRANLNMDLTSRVDNCIYSGHTGGPGTPVSQRKQRTRTPKMAGGTTSSSITGLAFQDNDTLISCGAGDGVIKVWDLRRNYTAYKKEPLPRHKLPYAGSSTFRGFTNLIVDASGTRLYANCMDNTIYCYNLASYSQRPLACYKGLLNSTFYIKSCLSPDGKYLLSGSSDERAYIWNLDHAEEPLVALAGHTVEVTCVAWGSSHDCPIVTCSDDARHKIWRIGPDLDGLSEAERAEKYRGTASYVREFGKKAFGPSSGNHKYNLRDLESTPRSLKRLMDQNERTPGSVEKTTTKRSFLEMLGVAGQETEATEQPQKRAKPLESRGRRLFGPSSQETACRHIQLQSINEEDASPSKRQKENSAAEDVSPLHKLLSTPSHSPLSENVNHVYTSPPTTSAAAAAVAADALNPPPISAAIYSPTSNLPNYVLDGEAPHLGIMSPKRKAKEKVDWLTNIRKQKLMSGRAHVTLSEKISEEQQADVLASPRLQSLRQSECSPRIHASPRRRISHTDGGGGTPAGSSSHSHSQSQPKTPTSSRRNSETTLLRFFSIQRSSSVPAEETTTTNAAPSSSDPHPPAVTAPAATPLSMRTPTTAVGSD |
| 4084 | sp|B5EDX8|LON\_GEOBB | MTENITINMPEIVPLYPLREIIAFPYMVFTIFLKQEDMPPFEEAVLFNNLVALVKLREEPTGELFPALHEIGTLCKVMQINKLAGGGAKVVLEGVIRVRLLAIVQQTPVALSRLEPVREFAEKSMVSEALVGSLNALLKIALSYGRPLPDDVMKMIDFIDNPARLSDLVALYLNLPIDELQKLLETVDPLERLKKVYMHLTNEVQRLQIKGEVQAEVTKKVGKSQKEFLLREQMKQIQEELGEEDSRLGEANELRSKVESAHMPEDVRRIAEKEMRRLERINPASPEYTVSRTYLDYLTTIPWQVSTPDNRDINQAETILNEDHYDLKKVKERILEYLAVRSLKDKMKGPILCFVGPPGVGKTSLGKSIARTLGRKFIRISLGGMRDEAEIRGHRRTYIGALPGRIIQEINRAGSNNPVFMLDEVDKIGADFRGDPASALLEVLDPEQNFSFTDHYLDVPFDLTNVMFITTANQLDPIPAPLKDRMEVITLSGYTDEEKLNIAKSYLVAREVEENGLASMAPQFTDEAIYRVTHDYTREAGVRNLQRNIASICRKIAKEVAQGKKARPIVNPETVSELLGAPKFFDEVASEKDRVGVATGLAWTESGGDIIFVEATKMKGKEDLILTGSLGEVMKESVRAALSFVKANCAELGIDKKMFDETTLHIHVPAGSIPKDGPSAGITMATAIVSLFSGRAARRDVAMTGEMSLTGRVLAIGGLKEKVLAARRAGVKKVLAPAKNKKDLEDIPENVKNELEFFFVEDIREVFVQALNPTSPAPTAATSARTPAGAPPPQ |
| 4085 | sp|P29038|LDH\_MAIZE | MKKATSLSELGFDAGDASSGFFRPVSGDSSTPTSQHHRRRLTKVSVIGAGNVGMAIAQTILTRDLADEIALVDAVPDKLRGEMLDLQHAAAFLPRTRLVSGTDMSVTRGSDLVIVTAGARQIQGETRLDLLQRNVALFRKIVPPLAEQSHDALLLVVSNPVDVLTYVAWKLSGFPASRVIGSGTNLDSSRFRFLLAEHLDVNAQDVQAYMVGEHGDSSVAVWSSVSVAGMPVLKSLQESHRCFDEEALEGIRRAVVDSAYEVISLKGYTSWAIGYSVASLAASLLRDQRRIHPVSVLARGFHGIPDGTTSSSACPPRRPRRRPGRREMELTEEEAKRLRRSAKTIWENCQLLGL |
| 4086 | sp|O35099|M3K5\_MOUSE | MGTEAGEGITFSVPPFASVGFCTIPEGGSCRRGGGAATAAEGEPSLQPLLVPPPPPPPGSFWNVESAAAPGTSCPTTAPGSSATRGRGNSGSGGGRRTTVAYVINEASQGQLVVAESEALQSLREACEAVGATLETLHFGKLDFGETAVLDRFYNADIAVVEMSDAFRQPSLFYHLGVRESFSMANNIILYCDTNSDSLQSLKEIICQKNTVCTGNYTFIPYMVTPHNKVYCCDSSFMKGLTELMQPNFELLLGPICLPLVDRFVQLLKVAQASSSQYFRESILSDIRKARNLYTGKELAAELARIRQRVDNIEVLTADIVINLLLSYRDIQDYDSIVKLVETLEKLPTFDLASHHHVKFHYAFALNRRNLPGDRAKALDIMIPMVQSEEQVASDMYCLVGRIYKDMFLDSNFTDTESRDHGASWFKKAFESEPTLQSGINYAVLLLAAGHQFESSFELRKVGVKLSSLLGKKGNLEKLQSYWEVGFFLGASVLANDHLRVIQASEKLFRLKTPAWYLKSIVETILIYKHFVKLTTEQPSAKQELVDFWMDFLVEATKTDVTVVRFPVLILEPTKIYQPSYLSINNEVEEKTISIWHVLPDDKKGIHEWNFGASSVRGVSISKFEERCCFLYVLHNSDDFQIYFCTELHCKRFFEMVNTITEEKGRGAEDGDCEGDSLEYDYEYDENGDRVVLGKGTYGIVYAGRDLSNQVRIAIKEIPERDSRYSQPLHEEIALHKHLKHKNIVQYLGSFSENGFIKIFMEQVPGGSLSALLRSKWGPLKDNEQTIGFYTKQILEGLKYLHDNQIVHRDIKGDNVLINTYSGVLKISDFGTSKRLAGINPCTETFTGTLQYMAPEIIDKGPRGYGKAADIWSLGCTIIEMATGKPPFYELGEPQAAMFKVGMFKVHPEIPESMSAEAKAFILKCFEPDPDKRACANDLLIDEFLKVSSKKKKTQPKLSALSTGSNEYLRSISLPVPVLVEDTSSSSEYGSVSPDTELKADPFSFKARAKSCGEKDGKGIRTLFLGIPDENFEDHSAPPSPEEKDSGFFMLRKDSERRATLHRILTEDQDKVVRNLMESLAQGAEEPKLKWEHITTLISSLREFVRSTDRKIIATTLSKLKLELDFDSHGISQVQVVLFGFQDAVNKVLRNHNIKPHWMFALDSIIRKAVQTAITILVPELRPHFSLASESDTADPEDLDVEDEHEELSSNQTVRRPQAITEDAVATSGVSTLSSTVSHDSQNAHRSLNVQLGRMKIETNRLLEELVRKERELQALLHQAIEEKDQEIRHLKLKSQPIDIPGFPVCHLNSPGTTTEDSELPGWLRENGADEDTISRFLAEDYTLVDVLYYVTRDDLKCLRLRGGMLCTLWKAIIDFRNKC |
| 4087 | sp|Q07747|AAD4\_YEAST | MGSMNKEQAFELLDAFYEAGGNCIDTANSYQNEESEIWIGEWMKSRKLRDQIVIATKFTGDYKKYEVGGGKSANYCGNHKHSLHVSVRDSLRKLQTDWIDILYVHWWDYMSSIEEVMDSLHILVQQGKVLYLGVSDTPAWVVSAANYYATSHGKTPFSIYQGKWNVLNRDFERDIIPMARHFGMALAPWDVMGGGRFQSKKAMEERKKNGEGLRTVSGTSKQTDKEVKISEALAKVAEEHGTESVTAIAIAYVRSKAKNVFPLVGGRKIEHLKQNIEALSIKLTPEQIEYLESIIPFDVGFPTNFIGDDPAVTKKASLLTAMSAQISFD |
| 4088 | sp|Q84ZA1|DRE2C\_ORYSJ | MEMDIGEGESCCGRRKQQQQQNISSSKSRKCCPLRRSRKGCMKGKGGPENQRCPFRGVRQRTWGKWVAEIREPNRGARLWLGTFNTALDAARAYDSAARALYGDCARLNLLLAAATAGAPPAAATPSVATPCSTNDDSNNSSSTTHQQQLTTMLQLDDDNYTLQPSSSDQEDFETYVTRLPKAEDFGLEGFQEVPLDVLDEAGGGISIWDLSICPADFMATAATTTAKSS |
| 4089 | sp|P42763|ERD14\_ARATH | MAEEIKNVPEQEVPKVATEESSAEVTDRGLFDFLGKKKDETKPEETPIASEFEQKVHISEPEPEVKHESLLEKLHRSDSSSSSSSEEEGSDGEKRKKKKEKKKPTTEVEVKEEEKKGFMEKLKEKLPGHKKPEDGSAVAAAPVVVPPPVEEAHPVEKKGILEKIKEKLPGYHPKTTVEEEKKDKE |
| 4090 | sp|Q0BX02|GRPE\_HYPNA | MSDENKPGEAAELDAGVAPEAQPETELTVEELIIRLEAEKADMNGQILRLLADLDNTRKRADRQVSEARIYAIEKFAADLLSVSDNLSRALDALPDSERENLTDAGKNLLGGIEMTAKELNTALSRHGVVPVPAEPGAVFDPNVHQAVAQIPSPQPSGTIAQLFQPGWKIGDRTLRAAMVAVSTGPAN |
| 4091 | sp|C1KVC1|GRPE\_LISMC | MSEKKNKKERLADEIEQEELNILDETEETVEEEAAADTLTEEQAKILELENKLDEVENRYLRMQADFENVKKRHIADRDASQKYRSQSLAQDLLPALDSFEKALATTSDQEEVKQILKGMEMVYNQILVAFEKEGIEVIPAVGEQFDPNFHQAVMQDSDENAGSNEITAELQKGYKLKDRVIRPSMVKVNQ |
| 4092 | sp|Q8YUA7|GRPE\_NOSS1 | MIDENKQVNHTSQQLGESTEVKQAIMSESPAQINNNESANEVTEPVAIPTNVVGDTTATEDNGFTATQIQEANTAALAELTQQISSLKTQLDERSTQYMRIAADFENYRKRTQKEKEELDLQVKRNTILELLPIVDNFERARSHLKPQTESEMTIHKSYQGVYKQLVDSLKRLGVSPMRPEGQEFDPNLHEAVMREPTDEHPEGTVLEELVRGYYLGDRVLRHSMVKVAAPKEDTLPAQENQSSPADS |
| 4093 | sp|Q9L7Z3|GRPE\_VIBPR | MSNQEKKMHEEELQQQETVEADTEAEAEAVGTDADIEWNEESALDETEAKIAQLEAALLSSEAKVKEQQDAVLRAKAEVENMRRRTEQEIDKARKFALNKFAEELLPIIDNLERAIQAADTESEVVQPILEGITLTHKTFIDTISKFGLKEINPEGEAFNPELHQAMSIQESADHESNTVMFVMQKGYELNGRVIRPAMVMVAK |
| 4094 | sp|P0DJM3|GRPE\_LISMO | MSEKKNKKERLADEIEQEELNILDEAEEAVEEEATADTLTEEQAKILELENKLDEVENRYLRMQADFENVKKRHIADRDASQKYRSQSLAQDLLPALDSFEKALATTSDQEEVKQILKGMEMVYNQILIAFEKEGIEVIPAVGEQFDPNFHQAVMQDSDENAGSNEITAELQKGYKLKDRVIRPSMVKVNQ |
| 4095 | sp|A8FYL1|GRPE\_SHESH | MSNDSSKAKQNQVDEAVEGEIITDNENETVTGEASLMDELTQANFRVEELEQALEAATAKVDEQKDSVIRAAAEVDNIRRRAAIDVEKARKFALEKFANELLPVIDNMERALQGTDAEAEATKAVYEGVELTLKSFIGTVEKFGLTVVNPQGETFNPEHHQAIGMQPSPDFPANTVMMVMQKGYILNERLLRPAMVMVSQGGAAVDTQA |
| 4096 | sp|A7FKS2|GRPE\_YERP3 | MSSKEQKTPNEQVSEEMENTAEQQVEATQETGECVDPRVAELEVQLSDALQRERESLLRAKAEVENIRRRTELDVEKAHKFALERFSSELLPVIDNLERALDTADKTNTELTSMIEGVELTLKSLLDAVGKFGIEVVGETHVPFNPEVHQAMTMLESADHEPNHVMMVMQKGYTLNGRLLRPAMVAVSKAKS |
| 4097 | sp|A1RLV4|GRPE\_SHESW | MSNESIKAEQDLIQEGVESEVSTAEASLVDELTQANFRIEELEQLLADALAKVEEQKDSVIRAAAEVDNIRRRAAMDVEKANKFALEKFANELLPVLDNMERALMGTNPEDEATKAIYQGVELTQKSLLTAVAKFGVKQIDPQGESFNPDQHQAIGMQPSADFPANTVMLVMQKGYELNSRLLRPAMVMVSQGGPSQETATIDIEA |
| 4098 | sp|Q68WA8|GRPE\_RICTY | MKDDNIENNNIEEENLNIETQVVANEEIALLKAEIKELQDKLIRTTAEIDNTRKRLEKARDEAKDYAIATFAKELLNVSDNLSRALAHKPSNADVEVTNIISGVQMTKDELDKIFHKHHIEEIKPEIGSMFDYNVHNAISHIEHPDHKPNSIITLMQSGYKIRDRLLRPATVQVVKKP |
| 4099 | sp|B0UIY3|HFQ\_METS4 | MAGERAQNLQDTFLNHVRKNKIPLTIFLVNGVKLQGVVTWFDNFCVLLRRDGHSQLVYKHAISTIMPGHPVQLFEQGEEGAEKG |
| 4100 | sp|A5GDC7|GRPE\_GEOUR | MEKKKHGTNSISEALKVKAAVEQETATPEPTPQSETESADKIKQLEEALAAKEAEAAANWDKVLRERADLENYRKRVQKEKEELLKYGNESLILEILPAIDNMERALEHACDESMSAIVEGIKMTLCMLQSTLKKFGVAPVDAGKGTTFDPAYHQAMNQVESSEHEPNTIVSEFQKGYLLNERLLRPALVSVATAPKEQ |
| 4101 | sp|A1WE11|HFQ\_VEREI | MSNKGQLLQEPFLNTLRREHVPVSIYLVNGIKLQGQIESFDQYVVLLRNTVTQMVFKHAISTIVPGRAVHFSTAEPADANSNNG |
| 4102 | sp|A1JIR5|HFQ\_YERE8 | MAKGQSLQDPFLNALRRERVPVSIYLVNGIKLQGQVESFDQFVILLKNTVSQMVYKHAISTVVPSRPVSHHSNNPSGSTNNYHGSNPSAPQQPQQDSDDAE |
| 4103 | sp|Q81WX1|HFQ\_BACAN | MKQSINIQDQFLNQLRKENTFVTLYLLNGFQLRGLIKGFDNFTVLLETEGKQQLIYKHAISTFVPQKNVSIELE |
| 4104 | sp|A0K7T1|HFQ\_BURCH | MSNKGQLLQDPFLNALRKEHVPVSIYLVNGIKLQGNIESFDQYVVLLRNTVTQMVYKHAISTVVPARPVNFHPDAEASS |
| 4105 | sp|Q5E2C8|HFQ\_ALIF1 | MAKGQSLQDPFLNALRRERIPVSIYLVNGIKLQGQIESFDQFVILLKNTVNQMVYKHAISTVVPARAVSHHSASDRPQGERPQEKTEE |
| 4106 | sp|Q43971|HFQ\_AZOC5 | MAAERTQNLQDTFLNHVRKSKTPLTIFLVNGVKLQGVVTWFDNFCVLLRRDGHSQLVYKHAISTIMPGHPVQLFDPTDEVASEKA |
| 4107 | sp|A5VQN6|HFQ\_BRUO2 | MAERSQNLQDLFLNSVRKQKISLTIFLINGVKLTGIVTSFDNFCVLLRRDGHSQLVYKHAISTIMPSQPVQMFEGEEA |
| 4108 | sp|Q9SRX6|LEA2\_ARATH | MARSLANAKIQSVFGSEKLSNAVFRRGFAAAAKTALDGSVSTAEMKKRAGEASSEKAPWVPDPKTGYYRPETVSEEIDPAELRAILLNNKQ |
| 4109 | sp|Q8RHK0|LON\_FUSNN | MLKAPFLPIRDLVIFPNVVTPIYVGRANSIATLEKAIANKTKLVLGLQKDASQENPTFDGDIYEVGVIANIVQIIRMPNNNIKVLVEAEDRVKIKNIEKEENEYVTTYTVIKETLKDSKETEAIYRKVFTRFEKYVSMIGKFSSELILNLKKIEDYSNGLDIMASNLNISSEKKQEILEISNVRDRGYRILDEIVAEMEIASLEKTIDDKVKNKMNEAQRAYYLKEKISVMKEELGDFSQDDDVIEIVDRLKNTELPKEVREKLEAEVKKLTKMQPFSAESSVIRNYIEAVLELPWNSETNDVLDLKKASQILERDHYGLKDAKEKVLDYLAVKKLNPSMNGVILCLSGPPGIGKTSLVKSIAESMGRKFVRVSLGGVRDEAEIRGHRRTYVGSMPGKIMKAMKEAGTNNPVMLLDEIDKMSNDFKGDPASAMLEVLDPEQNKNFEDHYIDMPFDLSKVFFVATANDLRNVSAPLRDRMDILQLSSYTEFEKLHIAQKFLLKQAQKENGLANIDIKIPDKVMFKLIDEYTREAGVRNLKREIITICRKLAREVVEKDTKKFNLKPTDLEKYLGKAKFRPEKSRKATGKIGVVNGLAWTAVGGVTLDVQGVDTPGKGEVTLTGTLGNVMKESASVAMTYVKANLKKYPPKDKDFFKDRTIHLHFPEGATPKDGPSAGITITTAIVSVLTNKKVRQDIAMTGEITITGDVLAIGGVREKVIGAHRAGIKEVILPEDNRVDTDEIPDELKSTMKIHFAKTYDDVSKLVFVK |
| 4110 | sp|B2TFQ5|LON\_PARPJ | MSADSENETSESSPAGEATASTSALPDEPLILLPVRNAVLFPGMVLPFTAGRGQVKEDVQAAVKRQQPLGVVLQRDPRVQDPTFDDLNTIGTVANVVRYVTSPEDGAHHLICQGVERFRLIAPVEGLGFRAARVEFLPETTARNPAVDARALVLRQRAGEMIGLLPNAGGELVRALDAIELPGLLADTIAGLLDIPPERKQEILETLDVCKRLDKVLDAVAGRIEVLRLSQEIGEQTRGRIDQRQREMMLREQLRTIQNELGENIESREEVRKLTEAIEAAHMPPEVESHARKELGRLERMPEASSEYSISVSYLEWLTELPWPLPAEAPIDIARARQILDEAHFGLDKVKRRILEYLGVRKLNPHGKAPILCFLGPPGVGKTSLGQSIARALERPFVRVSLGGVHDEAEIRGHRRTYIGAMPGNIIQAIRKAGARNCVMLLDELDKLGQGVHGDPAAAMLEVLDPEQNASFRDNYLGVPFDLSAIVFVATANQIEGIAGPLRDRMEILDLPGYTEAEKFQIAQRFLVPRQLEACGLTAAQCELPDETLRAIIRDYTREAGVRSLERQIGAVFRYVALRVAEDPSTHERIEPDRLSSILGHRRFESEVAMRTSLPGVVTGLAWTPVGGDLLFIEASSTPGGGRLVLTGQLGDVMKESVQAALTLVKSRCESLHIDCSNFDKRDIHVHVPAGAVPKDGPSAGVAMFIAIASLLMGRAVRSDCAVTGEISLRGIVLPVGGIKEKVLAALRGGIKTVLLPARNAPDLEDIPVDARNQMRFVLLETVDDAVREIIEDESVTSSRNVDI |
| 4111 | sp|Q9ZD92|LON\_RICPR | MNKKSLPLMALRDMVVFPGVIAPIFVGRKKSLQALSRTTISEENNSKYILVTLQKKFDQENPSKHELYNTAILAKIIQIVKLPNNTAKILIEAVARVKLSNIKDEEAFEANYEIIPDEEILDIHNMRSLVDNAVQLFSKYAMNDKKVNAEIIETINKEISNRTNFINIINILSSHLITSLETKQQLLEETNPVKRITTVITTLTSNIVNSETEHALQQRVRKQIEKTQRDYYLHEQMKAIQKELDEDKSELADIEKKIKSLKLSKEAKEKAESEFKKLRAMNQMSAESGVTRNYLETLLSLPWGKYDNSKIDINQAEKILNRDHFGLEKVKERIIEYLAVLQRSSKIRGPILCLIGPPGVGKTSLVKSIAEGMGRKYTKFSLGGVRDEAEIRGHRKTYLGSMPGKILGQLKKIKTSNPVMLLDEIDKMSSDFRGDPASALLEVLDPEQNSHFVDHYLEVEYDLSNVVFIATANSHDLPRALSDRMEKIYISGYVEEEKLQIAKNYLVPKQFKMHKIKEDEITISEAAILDLIRYYTKESGVRALEREICALTRKALKQILANKTVKHISIDSNNLEEFLGAKKYNFGLAEKEDQIGSTTGLAYTEVGGELLTIEALAFSGKGEIKTTGKLGDVMKESAMAAYSCFRSRATNFGLKYDNYKDFDIHIHVPAGAIPKDGPSAGCALFTTIVSLMTKIPVHRTVAMTGEITLRGNVLPIGGLKEKLLAASRGGIKTVLIPEENVKDLKDIPPNIKENLEIISVSNIDQVLKHALVEMPINKGLSYDL |
| 4112 | sp|P36772|LON\_BRECH | MGERSGKRELPLLPLRGLLVYPTMVLHLDVGREKSIRALEQAMVDDNKILLATQEEVHIEEPDAEQIYSIGTVARVKQMLKLPNGTIRVLVEGLQRAKIEEYLQKEDYFVVSITYLKEEKAEENEVEALMRSLLTHFEQYIKLSKKVSPETLTSVQDIEEPGRLADVIASHLPLKMKDKQEILETVNIQERLEILLTILNNEREVLELERKIGNRVKKQMERTQKEYYLREQMKAIQKELGDKDGRQGEVDELRAQLEKSDAPERIKAKIEKELERLEKMPSTSAEGSVIRTYIDTLFALPWTKTTEDNLDIKHAEEVLDEDHYGLEKPKERVLEYLAVQKLVNSMRGPILCLVGPPGVGKTSLARSVARALGREFVRISLGGVRDEAEIRGHRRTYVGALPGRIIQGMKQAGTINPVFLLDEIDKLASDFRGDPASALLEVLDPNQNDKFSDHYIEETYDLTNVMFITTANSLDTIPRPLLDRMEVISISGYTELEKLNILRGYLLPKQMEDHGLGKDKLQMNEDAMLKLVRLYTREAGVRNLNREAANVCRKAAKIIVGGEKKRVVVTAKTLEALLGKPRYRYGLAEKKDQVGSVTGLAWTQAGGDTLNVEVSILAGKGKLTLTGQLGDVMKESAQAAFSYIRSRASEWGIDPEFHEKNDIHIHVPEGAIPKDGPSAGITMATALVSALTGIPVKKEVGMTGEITLRGRVLPIGGLKEKCMSAHRAGLTTIILPKDNEKDIEDIPESVREALTFYPVEHLDEVLRHALTKQPVGDKK |
| 4113 | sp|P0A9M0|LON\_ECOLI | MNPERSERIEIPVLPLRDVVVYPHMVIPLFVGREKSIRCLEAAMDHDKKIMLVAQKEASTDEPGVNDLFTVGTVASILQMLKLPDGTVKVLVEGLQRARISALSDNGEHFSAKAEYLESPTIDEREQEVLVRTAISQFEGYIKLNKKIPPEVLTSLNSIDDPARLADTIAAHMPLKLADKQSVLEMSDVNERLEYLMAMMESEIDLLQVEKRIRNRVKKQMEKSQREYYLNEQMKAIQKELGEMDDAPDENEALKRKIDAAKMPKEAKEKAEAELQKLKMMSPMSAEATVVRGYIDWMVQVPWNARSKVKKDLRQAQEILDTDHYGLERVKDRILEYLAVQSRVNKIKGPILCLVGPPGVGKTSLGQSIAKATGRKYVRMALGGVRDEAEIRGHRRTYIGSMPGKLIQKMAKVGVKNPLFLLDEIDKMSSDMRGDPASALLEVLDPEQNVAFSDHYLEVDYDLSDVMFVATSNSMNIPAPLLDRMEVIRLSGYTEDEKLNIAKRHLLPKQIERNALKKGELTVDDSAIIGIIRYYTREAGVRGLEREISKLCRKAVKQLLLDKSLKHIEINGDNLHDYLGVQRFDYGRADNENRVGQVTGLAWTEVGGDLLTIETACVPGKGKLTYTGSLGEVMQESIQAALTVVRARAEKLGINPDFYEKRDIHVHVPEGATPKDGPSAGIAMCTALVSCLTGNPVRADVAMTGEITLRGQVLPIGGLKEKLLAAHRGGIKTVLIPFENKRDLEEIPDNVIADLDIHPVKRIEEVLTLALQNEPSGMQVVTAK |
| 4114 | sp|P08965|MEI2\_SCHPO | MIMETESPLSITSPSPSDSTFQVDMEKTMHALPSSLLDSPLLSTNEHYPPKSTLLLSGPSPIRNIQLSATKSSESNSIDYLTDTQNIFPNFVNNENNYQFSTAPLNPIDACRVGERKVFTTGNVLLSADRQPLSTWQQNISVLSESPPQNGIQSYISSSEQAAQALTRKPSVTGFRSSSLNSNSDDIDIFSHASRYLFVTNLPRIVPYATLLELFSKLGDVKGIDTSSLSTDGICIVAFFDIRQAIQAAKSLRSQRFFNDRLLYFQFCQRSSIQKMINQGATIQFLDDNEGQLLLNMQGGSVLSILQLQSILQTFGPLLIMKPLRSQNVSQIICEFYDTRDASFALDELDGRIIHNCCLQVAYYDAMADSVSTSSASSLSVPRGFSGMLNNNSEWNNSMTMSSNQETPTAASCAVSRIGSSYGMSNNFGSVPLGRTESSPAWGTSGYYDVSSTSPVAPSDRNPSRQYNSIRYGLDVNPIAPPNSSRLKQRNSDLLNGINPQWSPFSSNTGKVFDSPTGSLGMRRSLTVGANASCSNPTNLSFASLTLHDSKADSTLSASSLNPDLNLQRYTPTVEKHASDRNSVDYAQIASGIDTRTTVMIKNIPNKFTQQMLRDYIDVTNKGTYDFLYLRIDFVNKCNVGYAFINFIEPQSIITFGKARVGTQWNVFHSEKICDISYANIQGKDRLIEKFRNSCVMDENPAYRPKIFVSHGPNRGMEEPFPAPNNARRKLRSIASAQQIGLFPPTASKC |
| 4115 | sp|Q99683|M3K5\_HUMAN | MSTEADEGITFSVPPFAPSGFCTIPEGGICRRGGAAAVGEGEEHQLPPPPPGSFWNVESAAAPGIGCPAATSSSSATRGRGSSVGGGSRRTTVAYVINEASQGQLVVAESEALQSLREACETVGATLETLHFGKLDFGETTVLDRFYNADIAVVEMSDAFRQPSLFYHLGVRESFSMANNIILYCDTNSDSLQSLKEIICQKNTMCTGNYTFVPYMITPHNKVYCCDSSFMKGLTELMQPNFELLLGPICLPLVDRFIQLLKVAQASSSQYFRESILNDIRKARNLYTGKELAAELARIRQRVDNIEVLTADIVINLLLSYRDIQDYDSIVKLVETLEKLPTFDLASHHHVKFHYAFALNRRNLPGDRAKALDIMIPMVQSEGQVASDMYCLVGRIYKDMFLDSNFTDTESRDHGASWFKKAFESEPTLQSGINYAVLLLAAGHQFESSFELRKVGVKLSSLLGKKGNLEKLQSYWEVGFFLGASVLANDHMRVIQASEKLFKLKTPAWYLKSIVETILIYKHFVKLTTEQPVAKQELVDFWMDFLVEATKTDVTVVRFPVLILEPTKIYQPSYLSINNEVEEKTISIWHVLPDDKKGIHEWNFSASSVRGVSISKFEERCCFLYVLHNSDDFQIYFCTELHCKKFFEMVNTITEEKGRSTEEGDCESDLLEYDYEYDENGDRVVLGKGTYGIVYAGRDLSNQVRIAIKEIPERDSRYSQPLHEEIALHKHLKHKNIVQYLGSFSENGFIKIFMEQVPGGSLSALLRSKWGPLKDNEQTIGFYTKQILEGLKYLHDNQIVHRDIKGDNVLINTYSGVLKISDFGTSKRLAGINPCTETFTGTLQYMAPEIIDKGPRGYGKAADIWSLGCTIIEMATGKPPFYELGEPQAAMFKVGMFKVHPEIPESMSAEAKAFILKCFEPDPDKRACANDLLVDEFLKVSSKKKKTQPKLSALSAGSNEYLRSISLPVPVLVEDTSSSSEYGSVSPDTELKVDPFSFKTRAKSCGERDVKGIRTLFLGIPDENFEDHSAPPSPEEKDSGFFMLRKDSERRATLHRILTEDQDKIVRNLMESLAQGAEEPKLKWEHITTLIASLREFVRSTDRKIIATTLSKLKLELDFDSHGISQVQVVLFGFQDAVNKVLRNHNIKPHWMFALDSIIRKAVQTAITILVPELRPHFSLASESDTADQEDLDVEDDHEEQPSNQTVRRPQAVIEDAVATSGVSTLSSTVSHDSQSAHRSLNVQLGRMKIETNRLLEELVRKEKELQALLHRAIEEKDQEIKHLKLKSQPIEIPELPVFHLNSSGTNTEDSELTDWLRVNGADEDTISRFLAEDYTLLDVLYYVTRDDLKCLRLRGGMLCTLWKAIIDFRNKQT |
| 4116 | sp|Q9ARD5|LT02\_HORVU | MASATFIEVILAIILPPVGVFLRYGLAVEFWICLLLTLLGYIPGIIYAVYVLVA |
| 4117 | sp|C7U331|MATMC\_SCHPM | MDSHQELSAGSPISYDFLDPDWCFKRYLTKDALHSIETGKGAAYFVPDGFTPILIPNSQSYLLDGNSAQLPRPQPISFTLDQCKVPGYILKSLRKDTTSTERTPRPPNAFILYRKEKHATLLKSNPSINNSQVSKLVGEMWRNESKEVRMRYFKMSEFYKAQHQKMYPGYKYQPRKNKVKR |
| 4118 | sp|Q10PI5|ADPO3\_ORYSJ | MAAAAGEEVEAARWAEAEDERKEGLRRRRRYGLVEYRALPGYMRDNEYILRHYRCEWPLPQVLLSAFSIHNETLNVWTHLIGFFIFLVLTIYTATQVPNVVDLQSLQHLPDVLRNADLHKIQTELVACLPSLPHLSDLQKLKDELKSSWNSIEVLPSLSRWHLLELLSSCLPHRFTHSNETSLSVLQSMKEDIANMIAPQLIRPIPRWPFYAFLGGAMFCLLASSTCHLLSCHSRRLAYIMLRLDYAGIAALIATSFYPPVYYSFMCYPFFCNLYLSCITILGVATIAFSLLPVFQNPEFRTIRACLFFGMGASGVIPVIHKLILFWHQPEALHTTAYEVLMGLFYGIGALVYATRVPERWMPGKFDIAGHSHQLFHVLVVAGAYTHYHSGLVYLKWRDVQGC |
| 4119 | sp|Q83XX3|FTSH\_OENOE | MKNKNRGFFRSSLSYAFVILAVIFLIYSFFGRSDGSVKHLSTTTFLKELKNNKIKDFTIQPGDSGVYTIAGDFKKAQKSSSSSSSTTTLLSGYQSSVTKFTAYVLPNNSSLKQITTAAQKAGVAVNPKPAASNFWGSMLTLILPTLIMFALLYWMLIGSQRGQGGSGGPGGIMSFGRSKAKPADPKQNKIRFADVAGEEEEKQELVEVVEFLKDPKKFTKLGARIPKGVLLEGPPGTGKTLLAKAVAGEAKTPFFSISGSDFVEMFVGVGASRVRDLFENAKKSAPSIIFIDEIDAVGRRRGAGMGGGNDEREQTLNQILIEMDGFEGSEGVIVLASTNRSDVLDPALLRSGRFDRKILVGAPDVKGREAILRVHAKNKPLAADVDLKVIAQQTPGFVGADLENLLNEAALLAARNDEKAVTAADIDEAEDRVIAGPAKKDRKTTQDERETVAYHEAGHAIVGLVLNDAQVVRKVTIVPRGRAGGYALMMPKDERYLMSEKDAKEELAGLMGGRAAEILINHVASSGASNDFQQATQIAREMVTQYGMSDKLGMVQLEGSSNVFVGDPNNPNPPYSQKTSELIDEEVRRLTNEAYKRAVDIIKSHPKQHKAIAEALLKYETLDEAQIRSLFETGEIPSDLVKDSQRPARPLSYEESKAALKKNGAVDNKEAEDELKRTKMIRKMKMIPSRVPIQLQKRRQPRRLQLLDAVNNKFD |
| 4120 | sp|Q0TNS6|GRPE\_CLOP1 | MVDNKDFNEELKENIQEELDNETKAENPNIDEEVEEVSEDIKADEKVIDFEELKALKEENTMFKSKTKKLENELEALKDRLLRISAEYENYRKRTDKEKERIYTDACEDVLIKMLPVLDNLERALAVDGTVEDLKKGVEMTVRQFEDALEKLQVEEISTENGFDPELHQAMMVVEQEGAEPNQVAQVFQKGYKRGDKVIRHSMVTVTK |
| 4121 | sp|Q5NFG6|GRPE\_FRATT | MSKQEKSNVEDKSLDIETAAQVETAQESASGALEELSVEEQLERAKDTIKELEDSCDQFKDEALRAKAEMENIRKRAERDVSNARKFGIEKFSKELLPVIDSIEQALKHEVKLEEAIAMKEGIELTAKMLVDILKKNGVEELDPKGEKFDPNLHEAMAMIPNPEFEDNTIFDVFQKGYMLNGRIVRAAKVVIVKN |
| 4122 | sp|Q7ABI1|GRPE\_ECO57 | MSSKEQKTPEGQAPEEIIMDQHEEIEAVEPEASAEQVDPRDEKIANLEAQLAEAQTRERDGILRVKAEMENLRRRTELDIEKAHKFALEKFINELLPVIDSLDRALEVADKANPDMSAMVEGIELTLKSMLDVVRKFGVEVIAETNVPLDPNVHQAIAMVESDDVAPGNVLGIMQKGYTLNGRTIRAAMVTVAKAKA |
| 4123 | sp|B7J7Y0|GRPE\_ACIF2 | MNEEKEESPSTEAEGAGAEVVNWEERAETYRNDYLRALADIENLRKRHEKQVEDARNYAVDRFARELLPVVDSLELALASPVEGAESIALLRQGLENTLTLFAKALGKAGIAPIEMGEGRFDPHLHQAIAMVETEGEANRVLAVHQKGYVMHDRLLRPSMVSVSKAPKAAQ |
| 4124 | sp|Q1QSW9|GRPE\_CHRSD | MAKDPQTPTDEELARAERDAEPQPGDATDDEVELEGVVEDVEASEADAEALENPEADALAARVEELEQALADAKDQTARAAAEAQNVRRRAEQDVEKARKFALEKFVKELLPVVDSLEKALESMQEGASEVHREGVSMTLKLQLDVLAKFGVEAVDPQGEPFDPQVHEAMTMVPNPEVEPNTVIEVMQKGYLLNGRLVRPAMVVVSQAAN |
| 4125 | sp|Q2KW99|GRPE\_BORA1 | MTAPQEPVDPIQDAGVEAPDLQAEIDALRAELAAAQAQAQAHQEQALRAMAEAENVRRRAQEDVSKARKFGIESFAESLVPVKDSLEAALAQPEQTAQALREGVEVTLKQLNGAFERNMLKDIAPAQGDKFDPHLHQAISSVPAPQPANTVVQLLQKGYVIADRTLRPALVVVSAGQG |
| 4126 | sp|Q9FE46|GSTFC\_ARATH | MVVKLYGQVTAACPQRVLLCFLEKGIEFEIIHIDLDTFEQKKPEHLLRQPFGQVPAIEDGDFKLFESRAIARYYATKFADQGTNLLGKSLEHRAIVDQWADVETYYFNVLAQPLVINLIIKPRLGEKCDVVLVEDLKVKLGVVLDIYNNRLSSNRFLAGEEFTMADLTHMPAMGYLMSITDINQMVKARGSFNRWWEEISDRPSWKKLMVLAGH |
| 4127 | sp|A1AXV2|GRPE\_RUTMC | MTKKKSTEKEDINPTIKAVSQTPKEKEDNLKEQLIQAQQSAKDNWDKLLRSQAEMENLKRRNAKDVENAHKFALDSFVKALLEVKDSLSMGIKTAQEEKATVKHIVEGLEMTNKVFLSTLEKFGVVMINPEDEAFNPELHEAVTMIPMPGKDSNSVLEVVQFGFTLNGRLVRPAMVVVAQ |
| 4128 | sp|Q9CAS6|GSTUB\_ARATH | MGLMNRSKNDEYVKLLGAWPSPFVLRTRIALNLKNVAYEYLEEEDTLSSESVLNYNPVHKQIPILIHGNKPIRESLNIVMYVDETWLSGPPILPSDPFDRAVARFWDVYIDEHCFTSINGVAVAKGEENINAAIAKLEQCMALLEETFQECSKGRGFFGGENIGFIDIGFGSMLGPLTVLEKFTGVKFIHPENTPGLFHWADRFYAHEAVKPVMPDIEKLVQFARLKFNTSIFK |
| 4129 | sp|Q9ZCT4|GRPE\_RICPR | MKDYNIENNNVEEENPNVETQVVDNEEIVRLKAEIEELKDKLIRTTAEIDNTRKRLEKARDEAKDYAIATFAKELLNVSDNLARALAHKPANSDVEVTNIISGVQMTKDELDKIFHKHHIEEIKPAIGSMFDYNLHNAISHIEHPDHEPNSIITLMQSGYKIRDRLLRPAAVQVVKKP |
| 4130 | sp|P64312|HCHA\_STAAM | MSQDVNELSKQPTPDKAEDNAFFPSPYSLSQYTAPKTDFDGVEHKGAYKDGKWKVLMIAAEERYVLLENGKMFSTGNHPVEMLLPLHHLMEAGFDVDVATLSGYPVKLELWAMPTEDEAVISTYNKLKEKLKQPKKLADVIKNELGPDSDYLSVFIPGGHAAVVGISESEDVQQTLDWALDNDRFIVTLCHGPAALLSAGLNREKSPLEGYSVCVFPDSLDEGANIEIGYLPGRLKWLVADLLTKQGLKVVNDDMTGRTLKDRKLLTGDSPLASNELGKLAVNEMLNAIQNK |
| 4131 | sp|B7V1H4|GRPE\_PSEA8 | MADEQQTLDQQTPEQPTGAAEDLTARVQELEEQLAAAQDQALRMVADLQNVRRRAEQDVEKAHKFALEKFAGDLLAVVDTLERGLEMSDPNDEAIKPMREGMELTLKMFDDTLRRYQVEALNPEGEPFNPEQYQAMAMQESASAEPGSVLKVFQKGYLLNGRLLRPAMVVVSKAPAETPPSIDEQA |
| 4132 | sp|A7ZN88|HCHA\_ECO24 | MTVQTSKNPQVDIAEDNAFFPSEYSLSQYTSPVSDLDGVDYPKPYRGKHKILVIAADERYLPTDNGKLFSTGNHPIETLLPLYHLHAAGFEFEVATISGLMTKFEYWAMPHKDEKVMPFFEQHKSLFRNPKKLADVVASLNADSEYAAIFVPGGHGALIGLPESQDVAAALQWAIKNDRFVISLCHGPAAFLALRHGDNPLNGYSICAFPDAADKQTPEIGYMPGHLTWYFGEELKKMGMNIINDDIAGRVHKDRKVLTGDSPFAANALGKLAAQEMLAAYAG |
| 4133 | sp|B7MWF3|HCHA\_ECO81 | MTVQTSKNPQVDIAEDNAFFPSEYSLSQYTSPVSDLDGVDYPKPYRGKHKILVIAADERYLPTDNGKLFSTGNHPIETLLPLYHLHAAGFEFEVATISGLMTKFEYWAMPHKDEKVMPFFEQHKSLFRNPKKLADVVASLNADSEYAAIFVPGGHGALIGLPESQDVAAALQWAIKNDRFVISLCHGPAAFLALRHGDNPLNGYSICAFPDAADKQTPEIGYMPGHLTWYFGEELKKMGMNIINDDITGRVHKDRKVLTGDSPFAANALGKLAAQEMLAAYAG |
| 4134 | sp|Q1RAH5|HCHA\_ECOUT | MTVQKSKNPQVDIAEDNAFFPSEYSLSQYTSPVSDLDGVDYPKPYRGKHKILVIAADERYLPTDNGKLFSTGNHPIETLLPLYHLHAAGFEFEVATISGLMTKFEYWAMPHKDEKVMPFFEQHKSLFRNPKKLADVVASLNADSEYAAIFVPGGHGALIGLPESEDVAAALQWAIENDRFVISLCHGPAAFLALRHGDNPLNGYSICAFPDAADKQTPEIGYMPGHLTWYFGEELKKMGMNIINDDITGRVHKDRKVLTGDSPFAANALGKLAAQEMLAAYAG |
| 4135 | sp|Q8NWA9|GRPE\_STAAW | MTNKDESVEKNTESTVEETNVKQNIDDSVEQAEESKGHLQDEAIEETSDENVIEEIDPKDQKINELQQLADENEEKYLRLYAEFENYKRRIQKENEINKTYQAQRVLTDILPAIDNIERALQIEGDDETFKSLQKGVQMVHESLINALKDNGLEVIKTEGEAFDPNIHQAVVQDDNPDFESGEITQELQKGYKLKDRVLRPSMVKVNQ |
| 4136 | sp|Q9KV11|HFQ\_VIBCH | MAKGQSLQDPFLNALRRERIPVSIYLVNGIKLQGQIESFDQFVILLKNTVNQMVYKHAISTVVPARPVSHHSGDRPASDRPAEKSEE |
| 4137 | sp|B1X6B7|HCHA\_ECODH | MTVQTSKNPQVDIAEDNAFFPSEYSLSQYTSPVSDLDGVDYPKPYRGKHKILVIAADERYLPTDNGKLFSTGNHPIETLLPLYHLHAAGFEFEVATISGLMTKFEYWAMPHKDEKVMPFFEQHKSLFRNPKKLADVVASLNADSEYAAIFVPGGHGALIGLPESQDVAAALQWAIKNDRFVISLCHGPAAFLALRHGDNPLNGYSICAFPDAADKQTPEIGYMPGHLTWYFGEELKKMGMNIINDDITGRVHKDRKLLTGDSPFAANALGKLAAQEMLAAYAG |
| 4138 | sp|A1B9J4|HFQ\_PARDP | MAGDKQNLQDAFLNHVRKGKVPVTIFLINGVKLQGVITWFDNFCVLLRRDGQSQLVYKHAISTIMPGQPISLYEGED |
| 4139 | sp|A0KSR7|HFQ\_SHESA | MAKGQSLQDPFLNALRRERVPVSIYLVNGIKLQGQVESFDQFVILLKNTVSQMVYKHAISTVVPARPFNVAGHQNAQGGYGAQDDMPSGE |
| 4140 | sp|B0U1E7|HFQ\_XYLFM | MAKGQSLQDPFLNALRRERVPVSVYLVNGIKLQGTIESFDQFVVLLRNTVSQMVYKHAISTVVPARNVRVGPGGGYVHSGSDTLQINDDEVE |
| 4141 | sp|Q21W33|HFQ\_RHOFT | MSNKGQLLQDPFLNALRREHVPVSIYLVNGIKLQGQIESFDQYVVLLRNTVTQMVYKHAISTIVPGRAVNFSTGEGDEPAAA |
| 4142 | sp|B1JAD4|HFQ\_PSEPW | MSKGHSLQDPYLNTLRKEKVPVSIYLVNGIKLQGSIESFDQFVVLLKNTVSQMVYKHAISTVVPARPVRLPSPSDSEHGDSEPGNA |
| 4143 | sp|B0SBH9|HFQ\_LEPBA | MSAKNNIQDQLLNTARKEKIDLTIYLLNGVPLKGKVVSFDNFTIILENENKQNLVYKHAISTIIPAKPIKLHSEETPKEAGGV |
| 4144 | sp|B8F663|HFQ\_HAEPS | MAKGQSLQDPYLNALRRERIPVSIYLVNGIKLQGQIESFDQFVILLKNTVSQMVYKHAISTVVPARAISHNNNSNHAHQAAPVQSAEVVEKVE |
| 4145 | sp|Q62JW9|HFQ\_BURMA | MSNKGQLLQDPFLNALRKEHVPVSIYLVNGIKLQGNIESFDQYVVLLRNTVTQMVYKHAISTVVPARPVNFHPDAEAAS |
| 4146 | sp|Q89LQ2|HFQ\_BRADU | MAADRAQNLQDTFLNHVRKTKTPLTIFLVNGVKLQGIVTWFDNFCLLLRRDGHSQLVYKHAISTIMPGAPIQLFEGGEDQPA |
| 4147 | sp|Q9LUH8|HFA6B\_ARATH | MDPSFRFIKEEFPAGFSDSPSPPSSSSYLYSSSMAEAAINDPTTLSYPQPLEGLHESGPPPFLTKTYDLVEDSRTNHVVSWSKSNNSFIVWDPQAFSVTLLPRFFKHNNFSSFVRQLNTYGFRKVNPDRWEFANEGFLRGQKHLLKNIRRRKTSNNSNQMQQPQSSEQQSLDNFCIEVGRYGLDGEMDSLRRDKQVLMMELVRLRQQQQSTKMYLTLIEEKLKKTESKQKQMMSFLARAMQNPDFIQQLVEQKEKRKEIEEAISKKRQRPIDQGKRNVEDYGDESGYGNDVAASSSALIGMSQEYTYGNMSEFEMSELDKLAMHIQGLGDNSSAREEVLNVEKGNDEEEVEDQQQGYHKENNEIYGEGFWEDLLNEGQNFDFEGDQENVDVLIQQLGYLGSSSHTN |
| 4148 | sp|P27397|HSP12\_DAUCA | MSIIPSFFGSRRSNVLNPFSLDIWDPFQDYPLITSSGTSSEFGKETAAFANTHIDWKETPQAHVFKADLPGLKKEEVKVEVEEGKVLQISGERNKEKEEKNNKWHRVEFSSGKFLRRFRLPENANVDEVKAGMENGVLTVTVPKVEMKKPEVKSIHISG |
| 4149 | sp|A6VDW9|HSLO\_PSEA7 | MSHSDQSQRFLFDDTDVRGEMVDLERSYSEVLAKHPYPEPVAQLLGEMLAAASLLCGTLKFDGLLVLQARSSGAVPLLMVECSSDRQVRGLARYSAEAIGAGAGMQELMPEGVLTLTVDPVKGQRYQGIVALEGVNLAECLSNYFASSEQLPTRFWLNADGRRARGLLLQQLPADRLKDPEAREASWQHLTTLADTLTAEELLALDNETVLHRLYHEETVRLFEPQPLVFHCSCSRERSANALVSLGQADCERLLEEEEGAITIDCQFCNQRYLFDASDVAQLFAGAGSQGPSATRH |
| 4150 | sp|B2I6F8|HRCA\_XYLF2 | MCASFSPTLDSRSRQLLRTLISCYIQNGEPIGSKTLAQQAGLDISPATIRNILADLEELGLLNSPHTSAGRVPTAHGYRMFVDSLVQMQPPSEDDIRRLRVEMTGGGTQTLLGSASEILSAMTHFVGVVSAPRREQFVFRHIDFVPLDARQIMAILIFADNEVQNRVIEPRRVYEPGELERVSNYLNAHFIGRTLADIRTTVLCELRKAKDEMEQLLAHSLDLASQMLVPNDSEDIVVTGQTRLMALQDLSDMDRLRELFEIFASKREILQLLERTIDAPGVRIFIGEETGMVSMEDISLVTAPYAAHGQVLGVLGVIGPKRMAYDRVIPLVQVVAQVLGTALEPPTMP |
| 4151 | sp|P0CJ84|HTPG\_BACFR | MQKGNIGVTTENIFPIIKKFLYSDHEIFLRELVSNAVDATQKLNTLASISEFKGELGDLTVHVSLGKDTITISDRGIGLTAEEIDKYINQIAFSGANDFLEKYKNDANAIIGHFGLGFYSAFMVSKKVEIITKSYKEGAQAVKWTCDGSPEFTLEEVEKADRGTDIVLYIDDDCKEFLEESRISALLKKYCSFLPVPIAFGKKKEWKDGKQVETAEDNVINDTIPLWTKKPSELSDEDYKKFYRELYPMSDEPLFWIHLNVDYPFHLTGILYFPKVKSNIDLNKNKIQLYCNQVYVTDSVEGIVPDFLTLLHGVLDSPDIPLNVSRSYLQSDSNVKKISTYISKKVSDRLQSIFKNDRAQFEEKWNDLKIFINYGMLTQEDFYDKAQKFALFTDTDGKYYTFEEYQTLIKDNQTDKDKNLIYLYANNKDEQFAYIEAAKNKGYNVLLMDGQLDVAMVSMLEQKLEKSRFTRVDSDVVDNLIVKEDKKSDVLEASKQEALSAAFKSQLPKMEKVEFNVMTQALGENGSPVMITQSEYMRRMKEMANIQAGMSFYGEMPDMFNLVLNSDHKLVKEVLADEEKECSAAIAPIQTELEDVTKRRDALKKKQEGKKDEDIPTVEKDELNDLDKKWDELKQQKDSIFAGYAGKNKVVRQLIDLALLQNNMLKGEALNNFVKRSIELI |
| 4152 | sp|O82011|HSP11\_SOLPE | MSLIPRIFGDRRSSSMFDPFSIDVFDPFRELGFPGTNSGETSAFANTRIDWKETPEAHVFKADLPGLKLEEVKVEVEEDRVLQISGERNMEKEDKNDKWQRVERSSGKFMRRFRLPENAKMDQVKASMENGVLTVTVPKEEMKKPDVKSIEISG |
| 4153 | sp|A1WC16|HSLU\_ACISJ | MSSMTPQEIVSELDRHIVGQNGAKRAVAIALRNRWRRQQVDASLRHEITPKNILMIGPTGVGKTEIARRLARLADAPFIKVEATKFTEVGYVGKDVDSIVRDLVEVAVKQTREADMKKVRVRAEDAAEDRILDVLIPPARGAGVDTARTGEPAGDSTARQVFRKKLREGQLDDKEIEIDLADARPQFEIMSPAGMEEMTEQLRGMFSQMGQERRRARKLKIAEAMKLLVEEEAAKLVNEEEVKTRALANAEQNGIVFIDEIDKVASRQEAGGADVSRQGVQRDLLPLVEGTTVSTKYGMVKTDHILFIASGAFHLAKPSDLIPELQGRFPIRVELTSLSVQDFEAILTQTHASLVKQYQALLETEGVTLDFTPEGITRLAHIAFEVNERTENIGARRLSTVMERLLDEVSYDATRLSGQTVVVDAGYVNARLQSLSQDEDLSRYIL |
| 4154 | sp|B4U0F0|HSLO\_STREM | MDKLIKTISVSGAFRAYVLDCTETVRAAQERHHTLSSSTVALGRTLIANQILAANQKGDSKVTVKVIGDSSFGHIISVADTKGHVKGYIQNPGVDIKKTATGEVLVGPFMGQGHFVTITDYGTGNPYTSTTPLITGEIGEDLAYYLTESEQTPSAVGLNVLLDQEDKVKVAGGFMLQVLPEASDEEISRYEKRIQEMPAISSLLASENHIDALLAAIYGKEPYKRLAEEQLSFQCDCSRERFASALMSLPKADLLTMLNEDKGAEIVCQFCGTKYQFDQADLEVLINDKT |
| 4155 | sp|P24631|HSP21\_MAIZE | MDGRMFGLETPLMVALQHLLDVPDGDAGAGGDKAGGGGPTRTYVADARAMAVTPADVKELPGAYAFVVDMPGLGTGDIKVQVEDERVLVISGERRREEREDAKYLRMERRMGKFMRKFVLPDNADMDKISAVCRDGVLTVTVEKLPPPEPKKPKTIEVKVA |
| 4156 | sp|P22979|HSP6C\_DROME | MPDIPFVLNLDSPDSMYYGHDMFPNRMYRRLHSRQHHDLDLHTLGLIARMGAHAHHLVANKRNGELAALSRGGASNKQGNFEVHLDVGLFQPGELTVKLVNECIVVEGKHEEREDDHGHVSRHFVRRYPLPKEFDSDAIVSTLSEDGVLNITVPPLVSKEELKERIIPIKHVGPSDLFQNGNGHKEAGPAASASEPEAK |
| 4157 | sp|Q01545|HSP22\_IPONI | MDLRNFGLSNFGLEPQLLSTIQDMLDFADDHDRAGRAPPEQPIRAYVRDAKAMAATPADVKEYPNSYVFIADMPGVKAAEIKVQVEDDNVLVVSGERTEREKDEKDGVKYLRMERRVGKFMRKFVLPENANVEAINAVYQDGVLQVTVEKLPPPEPKKPKTVEVKVA |
| 4158 | sp|B9JXW4|HSLU\_AGRVS | MTTFSPREIVSELDRYIIGQNDAKRAVAIALRNRWRRQQLDESLRDEVMPKNILMIGPTGVGKTEISRRLAKLAGAPFIKVEATKFTEVGYVGRDVEQIIRDLVEIGIGLIKEKKRLEVEAKAHAGAEERVLDALVGATASPATRDSFRKKLRAGELDDKEIDIEVAETSSGMPGFEIPGMPGANVGILNLSDMFGKAMGGRTKKVRTTVKTSYADLIRDESDKLIDNEVIQREAVKSVENDGIVFLDEIDKIANREGAMGAGVSREGVQRDLLPLVEGTTVATKYGPVKTDHILFIASGAFHVSKPSDLLPELQGRLPIRVELKALTKEDFRRILTETEASLIRQYIALMATEQLDLEFTEDAIDALADVAVNLNSSIENIGARRLQTVMERVLYDISFNAPDRGGAKVMIDSAYVREHVGEIAADADLSRYIL |
| 4159 | sp|Q9ZW31|HS17B\_ARATH | MSMIPSFFNNNRRSNIFDPFSLDVWDPFKELTSSSLSRENSAIVNARVDWRETPEAHVFKADLPGLKKEEVKVEIEEDSVLKISGERHVEKEDKNDTWHRVERSSGQFTRRFRLPENVKMDQVKAAMENGVLTVTVPKAETKKADVKSIQISG |
| 4160 | sp|Q1RDP6|HSPQ\_ECOUT | MIASKFGIGQQVRHSLLGYLGVVVDIDPVYSLSEPSPDELAVNDELRAAPWYHVVMEDDNGLPVHTYLAEAQLSSELQDEHPEQPSMDELAQTIRKQLQAPRLRN |
| 4161 | sp|P61189|HTPG\_WOLPM | MELKMHNVQETENLKFDAEVGKVLNIVIHSLYTNKDIFLRELISNASDACDKLRYESQLNPNLLDLSDELKITISSNKDKNELYITDNGIGMNRQDLIDNLGTIASSGTQKFLDAIKNSKDSSQTVELIGKFGVGFYSSFMVASEVIVESRKAGEEESWIWQSKGDGEYSISKSDNQVPRGTKITLIMHPEENEFLDKFRVENIVTTYSDHINFPVEFIDEEGKSEKLNSKAAIWTKPKNDVTQEEHNDFFRSVAHVGGEPWMILHNKNEGAIEYTNLLYVPSIKPFDLFHPDRRCSVKLYVNKVFITEDNVQIIPQYLRFLKGIVDSPDLPLNISRETLQNNRVVEQIRKSLTKRAISELGKKAKENLEEYTKFWTNFGAVLKEGLCEAMPTDEREALLSICRFHSTGDEKLVSIDDYISRMKPEQEHIYYLTGNSLDSVKNSPQLEGFVSKGLEVLLFVDPVDDFWTSVIHEYKDQKIKSVTRADVDLEKFSSEEDKTDEENKSNEEKTEETILQYFTTVLGDSVKSVKISKKLTDSPVCLAVDEGAMDLRMERFLREQKQLNYRTPKVLEINTKHPLIKSIMKSYAESGENPTLEDMIHLLFYQACIVEGEEMDDVSLFAKRLNNLLGKISV |
| 4162 | sp|A5GER7|HTPG\_GEOUR | MTKSTKKFETEVQQLLDLVIHSLYSNKDIFLRELVSNASDAIDKVKFESHSNMDILEGNTDWKIKLIPDKTAGTLTIRDNGIGMNVVEVEENIGTIARSGTRAFMENLKDKNVQNNPELIGQFGVGFYASFMVADKVTLITRKAGDKNAACRWESTGDGSYTIEDCEKETRGTDITLHLKDEMKEYLDEWKIRSIIKKYSDYVQYPVVMDVTRDEPAKGVDGEVIEGGGTIEKTTEETLNSMKAIWTRAKSEISEEEYEEFYKHISHDYDKPFRTIHYSAEGTSEFKALIYIPSHKPFDLFMRDHKKGVHLYVKRVFITDNCEALLPDYLRFMKGVVDSSDLPLNVSREILQEDIQIKRIEKNLVGKILSTLVETKEKTPEDYLKFYKEFGPVLKEGVHFDHANKEKLQELILFESSKTEAGNYISLKEYVARMPEAQKEIYYITGASRSALENSPHLEIFRKKGFEVLYMTDPVDEWVVQSLTDYDGKKLHAVDRGDLELDSAEEKKEKEAKQEEAKKQYQGVLDFVKEQLKDKVKEVRFSSRLTDSACCLVADEYGLNANMEKILKAMNQDVPESKRVLELNPDHPLMQVLSSIFEKDKENPRLADYCGLLYDQALLTEGSPVPDPLRFTRLVAELMVKAAEK |
| 4163 | sp|A1TZH7|HTPG\_MARHV | MTVEANKETLGFQTEVKQLLHLMIHSLYSNKEIFLRELISNASDAEDKLRFAALKDDKLFEGDSDLKIRLDYDKDAGTITIADNGIGMTRDDVIANLGTIAKSGTAEFLKQLSGDEKKDSKLIGQFGVGFYSAFIVADKVEVFTRKAGEPADNGVHWESKGDGEFTIEPVSREQRGTEIVLHLKPEDKEFADGWKLRSLVKKYSDHISFPVVMKSESEEEDKKGEEETVNDATALWTLPRTEIKDEEYKEFYKHIAHDFEDPLTWSHNKVEGKLDYTSLLYIPKRAPFDLYNREAPRGLKLYVQRVFIMDDAEQFLPLYLRFTKGVIDSNDLSLNVSREILQNDSTVESIRTALTKRVLDMLSKLAKKGGDEYQGFWDEFGTVLKEGPAEDFSNREKIAGLLRFASTHTGEATQNVSLDDYISRMKEGQNKIYYITGDNFAAAKSSPHLEVFRKKGIEVLILSDRIDEWMMGYLSEYDGKQFQDVARGDLDLGEVETEEDKKHQEEAAKEHKDLLERIKTALEDQVQEVRVTNRLTDSPACLVVGQFDMGAQMKKIMEAAGQKVPESKPIFEINVDHPLVQRLETEQGEQRFKELSAVLFDQATLASGEQLKDPGAYVSRLNRLLLELAN |
| 4164 | sp|Q47JL8|HSLU\_DECAR | MTTMTPQEIVSELDKHIVGQKNAKKAVAIALRNRWRRSQVAEPLRQEITPKNILMIGPTGVGKTEIARRLARLANAPFIKIEATKFTEVGYVGRDVETIIRDLVEMAIKSHRERAMKAMRARAEDAAEERILDVLLPTVRGPNFFAENSESTAAENTTRQKFRKKLREGELDDKEVDIEVAAPSLQAEIFAPPGMEELTQQIQGMFQSVGGGKKKSRKLSIKEALKLLTDEEAAKLVNDDDVKQEAVKAVEQNGIVFLDELDKIASRSEMHGADVSRQGVQRDLLPLVEGTTVSTKYGMIKTDHILFIASGAFHLSKPSDLIPELQGRFPIRVELDSLSVADFECILTQTDACLTRQYQALLETEGVQLEFVEDGIRRLAEIAFQVNEKTENIGARRLHTVMEKLLEEVSFDAGKVGLDKVLIDAAYVNTKLGELAADEDLSRYVL |
| 4165 | sp|A1ANS1|HTPG\_PELPD | MSKTTKQFQTEVKQLLDLVIHSLYSNRDIFLRELISNSSDAIDKIRFEAHSNEELLEGNSDWKIKLIPDKDAGTLTILDNGIGMTMAEVEENIGTIARSGTKAFMQALKDKSATDNPELIGQFGVGFYASFMVADRVILETRKGGTASDGCRWESIGDGSYTIEECSLDRRGTEIVLHLKDEFKEYLEEWKIRSIVKKYSDYIQYPVVMDITRTETPKGVDGEEIEGAGTIEKTVEETLNSMKAIWARPKSEVTEEEYQEFYKHISHDFENPFNTIHFSAEGISEFKALIYLPAKKPFDLFMADRKKGLQLYVKRVFITDRCEELLPDYLRFVKGVVDSSDLPLNVSREILQEDVQIKRIQKSLVGKILSTLAEVKEKNFDEYVNFWKEFGPVLKEGLHFDYANKEKLQELALFESTATEAGSFTSLKEYVERMPEAQQEIYFITGDSRATLKISPHLEAFKAKGYEVLFLTDPVDEWVVQALTEYKEKKLKAVDRGDVDLDSEEEKKEKETKQEEARKEYGDLISFIKSHLEDRVKDARLSKRLTDSACCLVADEYGINANMERILKAMNQPVPDSKRVLELNPDHPIMKIMTEIFRENKEDARLTDYADLLYDQALLTEGSPIKDPLRFTRLVSELMVKAATK |
| 4166 | sp|P81672|HSP70\_PINPS | VEIIANDQGNR |
| 4167 | sp|Q0T522|HTPX\_SHIF8 | MMRIALFLLTNLAVMVVFGLVLSLTGIQSSSVQGLMIMALLFGFGGSFVSLLMSKWMALRSVGGEVIEQPRNERERWLVNTVATQARQAGIAMPQVAIYHAPDINAFATGARRDASLVAVSTGLLQNMSPDEAEAVIAHEISHIANGDMVTMTLIQGVVNTFVIFISRILAQLAAGFMGGNRDEGEESNGNPLIYFAVATVLELVFGILASIITMWFSRHREFHADAGSAKLVGREKMIAALQRLKTSYEPQEATSMMAFCINGKSKSLSELFMTHPPLDKRIEALRTGEYLK |
| 4168 | sp|A8FX83|HTPG\_SHESH | MSQQETHGFQTEVKQLLNLMIHSLYSNKEIFLRELVSNAADASDKLRYEALTNDALYEGDGELRVRISTNKEKGTVTIEDNGIGMTRDTVIEHLGTIAKSGTADFFKNLSGDESKDSQLIGQFGVGFYSSFIVADKVTVRTRAAGHGSDEGVQWESAGEGDFTVDTIVKETRGTEIVLHLREEEKEFADDYRLRSIITKYSDHISVPVEMWEEGTPAIEATEEQEAVAATDGQWQSMNKATALWTRNKSDVSKEEYEEFYKHISHDFTDPLLWSHNRVEGKQEYTSLLYIPSKAPWDMWNRDRKHGLKLFVQRVFVMDDAEQFMPSYLRFVQGLIDSNDLPLNVSREILQDNKVTTALRTAVTKRVLGMLEKLAKNDAEKYQTFWAEFGQVLKEGPAEDMVNKERIAGLLRFASTHTEDAAPTVSLADYVSRMQEGQSKIYYIVADSHEAAANSPHLELLRKKGIEVVLMSERIDEWLINHLTDFDGKQLHSVTRGDLELGDLEDAGEKEAQEKLETESEGLVKRIKDSLGEKVSAVKVTTRLTDTPACVVAGEGEMSTQMIKLMEAAGQAVPESKPTFEINPEHPLVARLNDEQDEALFAQWSDLLLQQAQLSEKGSLADPSAFIKLMNEMLLAKLK |
| 4169 | sp|P09887|HS22C\_SOYBN | GGDNKDNSVEVQHVSKGDQGTAVEKKPRRTAMDISPFGILDPWSPMRSMRQILDTMDRVFEDTMTFPGRNIGGGEIRAPWDIKDEEHEIRMRFDMPGLAKEDVKVSVEDDMLVIKGGHKSEQEHGGDDSWSSRTYSSYDTRLKLPDNCEKDKVKAELKNGVLYITIPKTKVERKVIDVQVQ |
| 4170 | sp|B0UN89|HTPG\_METS4 | MSETLERHAFGAEVGRLLDLVVHALYSEREIFLRELVANAADAVDRRRFGALTDPALSLPADAKVRIRPDKAARTLAISDPGIGMSKEDLAQNLGTIARSGTRAFSQSLADAKPDERPSLIGQFGVGFYSAFMVADRVEVTSRKAGSDEAWTWASEGQGEYTLSPATRAEPGTDVVLHIKADADEYLEPLRLETIVRKWADHITVPITLLRDGEEVSGNEGTALWRKPKSEVSEEAYTAFYRHVTHNFDAPWATLHWRAEGALDFTALLFIPGMKPFLAVEEERESRVRLHVRRMFITDEAGLLPSWLRFVQGVVDTEDLPLNVSREMLQATPVLARIRRAVTGKVMAELKSRAKDAESYATFWQAFGPVLKEGIWEDAEHRDDIAALLRFRSTAVEGWTSFADYVSRMKPNQEAIYILVGDDAAALARSAQIEGFRARGIEVLLLSDHVDAFWPERLDKFDGKPIRSITQSADDLSAFAPEGEAAGEAADLTELLPKLKEILKDDVAEVRASQRLVESAVLLSASSGGPDLQMQRLLRRAGRGFGAGLPVLELNPRHALVRRIAERARAGEDVGEAAQTLLDLAHVQGGDPPRDPVAFARRVAAALAAQA |
| 4171 | sp|Q17XG0|HSLU\_HELAH | MSKLNMTPREIVTYLDEYIIEQKEAKKFIAIALRNRYRRLQLEKSLQEEITPKNILMIGSTGVGKTEIARRMAKIMKLPFVKVEASKYTEVGFVGRDVESMVRDLVNNSVLLVENEHKEKLKDKIEEAVVEKIAKKLLPPLPSGVSEEKKQEYANSLLRMQQRIVQGELDSREIEIEVRKKSIEIDSNVPPEILRVQENLIKVFHKEQDKVKKTLSVKEAKEALKAEISDTLLDSEAIKMEGLKRAESSGVIFIDEIDKIAISPKEGGRQDPSKEGVQRDLLPIVEGSVVNTKYGSIKTEHILFIAAGAFHLSKPSDLIPELQGRFPLRVELENLTEEIMYMILTQTKTSIIKQYQALLKVEGVEVAFEDDAIKELAKLSYNANQKSEDIGARRLHTTIEKVLEDISFEAEDYSGQKVTITKELVQSKLGDLVADENLVKYIL |
| 4172 | sp|A7N178|HTPG\_VIBCB | MSETVSHNKETRGFQSEVKQLLHLMIHSLYSNKEIFLRELISNASDASDKLRFQALSNPDLYEGNADLGVKLAFDESANTLTISDNGIGMSRDDVIEHLGTIAKSGTAEFFSKLSDDQSKDSQLIGQFGVGFYSAFIVADAVTVCTRAAGLAADEAVQWQSAGEGDYTVETITKDSRGTDIVLHMREEGKEFLNEWRLRDVISKYSDHIGIPVSIQTSVRDDEGKETGEKKWEQINKAQALWTRNKSEISEEEYQEFYKHVSHDFADPLTWSHNRVEGKNDYTSLLYIPAKAPWDMMNRDHKSGLKLYVQRVFIMDDAEQFMPSYMRFVRGLIDSNDLPLNVSREILQDNKVTQSLRNACTKRVLTMLDRMAKNDTEKYQSFWKEFGLVMKEGVAEDMANKEKVAGLLRFASTEVDSAEQTVGLASYVERMKEGQDKIYFLTADSYAAAKNSPHLEQFRAKGIEVILMFDRIDEWLMNYLTEFDGKQFQSITKAGLDLSKFEDEAEKEKQKETEEEFKSVVERTQSYLGDRVKEVRTTFKLATTPAVVVTDDFEMGTQMAKLLEAAGQAVPEVKYIFEINPEHALVKRMADEADEEVFGRWVEVLLGQAMLAERGSMEDPSQFVGAINKLLTKV |
| 4173 | sp|B0TP05|HTPG\_SHEHH | MSQQETHGFQTEVKQLLHLMIHSLYSNKEIFLRELVSNAADAADKLRYEALTNDALYEGDGELRVRISADKEKGTVTIEDNGIGMTRDGVIEHLGTIAKSGTAEFFKNMSGDESKDSQLIGQFGVGFYSSFIVADRVTVRTRAAGHSADEAVLWESAGEGDFTVETITKQSRGTEITLHLRDDEKEFADDYRLRSIITKYSDHISVPVEMYEEGTPAVEATEEGGEAIPATEGHWKLMNKATALWTRNKSDVSDEEYQEFYKYISHDFTDPLLWSHNRVEGKQEYTSLLYIPAKAPWDMWNRDRKHGLKLFVQRVFVMDDAEQFMPSYLRFVQGLIDSNDLPLNVSREILQDNKVTTALRTAVTKRVLGMLEKLAKNDAEKYQSFWTEFGQVLKEGPAEDFANKERVAGLLRFASTHTGEATANVSLADYVERMKEGQSKIYFIVADSYEAAANSPHLELLRKKGIEVLLMSERIDEWLINHLTEFDGKKLHSVTRGDLELGELEDASEKEAQEKLETESEGLVKRVKDSLGDKVSAVKVTTRLTDTPACVVAGEGEMSTQMIKLMQAAGQDVPESKPTFELNPEHPLVARLNDEQDEQRFAQWSELLLQQALLSEKGSLADPSAFIKLMNQMLLASVK |
| 4174 | sp|A3M830|HTPX\_ACIBT | MMRIGLFLLTNLAVLVVAGIILSLFGVGSYHGAGGLNLGNLLVICFVFGMVGSLVSLFMSKWMAKKTTGTELIDPNAPRNQAESWLLQTVAELSQRAGINMPEVGIFPSYQSNAFATGWNKNDALVAVSSGLLERMNKDELRAVLAHEIGHVANGDMVTLALIQGVVNAFVMFFARVVGDFIDRNVFGRQDNEAPGMGYFIITMVLDIVFGILASAIVMWFSRYREYRADEAGARLAGKQAMISALLRLQAETELPDQMPKEMKAFAIAEGKEQGFSLAALFQTHPTIEQRVAALHQLDCP |
| 4175 | sp|P19037|HS181\_ARATH | MSLIPSIFGGRRSNVFDPFSQDLWDPFEGFFTPSSALANASTARDVAAFTNARVDWKETPEAHVFKADLPGLKKEEVKVEVEDKNVLQISGERSKENEEKNDKWHRVERASGKFMRRFRLPENAKMEEVKATMENGVLTVVVPKAPEKKPQVKSIDISGAN |
| 4176 | sp|A6T765|HSPQ\_KLEP7 | MIASKFGIGQQVRHTLLGYLGVIVDVDPEYSLAEPEEDEIAANDELRAAPWYHVVMEDDDGQPIHTYLAEAQLSSETRDEHPEQPSLDELAKTIRQQLQAPRLRN |
| 4177 | sp|Q6S4N2|HS71B\_PIG | MAKSVAIGIDLGTTYSCVGVFQHGKVEIIANDQGNRTTPSYVAFTDTERLIGDAAKNQVALNPQNTVFDAKRLIGRKFGDPVVQADMKHWPFRVINDGDKPKVQVSYKGETKAFYPEEISSMVLTKMKEIAEAYLGHPVSNAVITVPAYFNDSQRQATKDAGVIAGLNVLRIINEPTAAAIAYGLDRTGKGERNVLIFDLGGGTFDVSILTIDDGIFEVKATAGDTHLGGEDFDNRLVNHFVEEFKRKHKKDISQNKRAVRRLRTACERAKRTLSSSTQASLEIDSLFEGIDFYTSITRARFEELCSDLFRSTLEPVEKALRDAKLDKAQIHDLVLVGGSTRIPKVQKLLQDFFNGRDLNKSINPDEAVAYGAAVQAAILMGDKSENVQDLLLLDVAPLSLGLETAGGVMTALIKRNSTIPTKQTQIFTTYSDNQPGVLIQVYEGERAMTRDNNLLGRFELSGIPPAPRGVPQIEVTFDIDANGILNVTATDKSTGKANKITITNDKGRLSKEEIERMVQEAEKYKAEDEIQRERVSAKNALESYAFNMKSAVEDEGLKGKISEADKKKVLDKCQEVISWLDANTLAEKDEFEHKRKELEQVCNPIISGLYQGAGGPGAGGFGAQAPKGGSGSGPTIEEVD |
| 4178 | sp|A5JV83|HSPBB\_DANRE | MLCPSTFQPHLSPFMDFHWPVRSLWPETRPLFFQFEQEMMRHMQEMRHNMEFMERLHQRIFDEIDHVSPMTTFKPISFQLGKEGSHYALTLDTQDFSPEELAVKQVGRKLRVSGKTEKKQDDGKGSYSYRCQEFRQEFDLPEDVNPESVSCSLNNGQLQIQAPREGNTVSNERVIPITYTPAVKNPALQNSEPENQAVEAEAAEN |
| 4179 | sp|P11145|HSP74\_TRYBB | MTYEGAIGIDLGTTYSCVGVWQNERVEIIANDQGNRTTPSYVAFTDSERLIGDAAKNQVAMNPTNTVFDAKRLIGRKFSDSVVQSDMKHWPFKVVTKGDDKPVIQVQFRGETKTFNPEEISSMVLLKMKEVAESYLGKQVAKAVVTVPAYFNDSQRQATKDAGTIAGLEVLRIINEPTAAAIAYGLDKADEGKERNVLIFDLGGGTFDVTLLTIDGGIFEVKATNGDTHLGGEDFDNRLVAHFTEEFKRKNKGKDLSSNLRALRRLRTACERAKRTLSSAAQATIEIDALFENIDFQATITRARFEELCGDLFRGTLQPVERVLQDAKMDKRAVHDVVLVGGSTRIPKVMQLVSDFFGGKELNKSINPDEAVXYGAAVQAFILTGGKSKQTEGLLLLDVAPLTLGIETAGGVMTALIKRNTTIPTKKSQIFSTYSDNQPGVHIQVFEGERTMTKDCHLLGTFDLSGIPPAPRGVPQIEVTFDLDANGILSVSAEEKGTGKRNQIVITNDKGRLSKADIERMVSDAAKYEAEDKAHVXXIDAKNGLENYAFSMKNTINDPNVAGKLDDADKNAVTTAVEEALRWLNDNQEASLEEYNHRQKELEGVCAPILSKMYQGMGGGDGPGGMPEGMPGGMPGGMPGGMGGGMGGAAASSGPKVEEVD |
| 4180 | sp|Q0VQC0|HTPX\_ALCBS | MMRIALYLLTNLAVIVVASITLSLLGVDSYLAQNGSGLNLTSLLIFSAVFGFAGSLISLLISKPMAKWSAKVQTINEPSNQAERWLLDTVKELSDKAGIKMPEVGVFPAQQSNAFATGWNKNDALVAVSQGLLTRFRPEEVRAVLAHEIGHVANGDMVTLSLIQGVVNTFVIFAARVVGYVIDSFMRRDGGGGLGFGYYIVVIVTEIIFGIAASTIVMKFSRFREYRADVAGAQLADRRDMISALQRLKAEAKVPNQMPDSLVAFGINSGVKQGLKALFSSHPPLDDRIAALQEKRHG |
| 4181 | sp|O86110|HSPH\_BRADU | MRTYDFSPLWRSTIGFDRLFDLVETAQRAGEDNYPPYNIERVSEDRYQISLAIAGFSPDEVSVTAEQNAVIVEGNKADKAEREYLYRGISARPFKRQFNLADYVQVQSAAFENGLLKIELIREIPEAMKPRRIAINAAPSGTVHQLEGRAA |
| 4182 | sp|Q0AD37|HSLU\_NITEC | MSHMTPQEIVHELDKHIIGQEAAKRSVAIALRNRWRRQQVGEPLRHEITPKNILMIGPTGVGKTEIARRLARLADAPFIKIEATKFTEVGYVGRDVDSIIRDLVESAIKQAREHEIRKNKPLAEDRAEERILDALLPSARDSGFDANPSEENNATRQKFRKKLREGELDDKEIDIEITMSQASMEIFAPPGMEELTSQIQGMFQNMGASKKKSRKLRIREARKLLTEEEAARLINDEELKLNAVQNVEQNGIVFLDEIDKITSRSEVSSSDISRQGVQRDLLPLVEGTTISTKYGMIRTDHILFIASGAFHLAKPSDLIPELQGRFPIRVELDSLSADDFKQILTNTDACLIRQYQALLKTEGIELNFSEDAIERLAEIAFSVNEITENIGARRLHTVMEKLLEDISFNATRYSGSTHVIDAAYVDERLGKLSQSEDLARYVL |
| 4183 | sp|P22359|HTPG\_VIBCH | MSETATTNKETRGFQSEVKQLLHLMIHSLYSNKEIFLRELISNASDAVDKLRFQALSHPDLYQGDAELGVKLSFDKDKNTLTISDNGIGMTRDEVIENLGTIAKSGTAEFFSKLSQEQSKNSQLIGQFGVGFYSAFIVADAVTVRTRAAGSAPADAVQWYSKGEGEYTVETINKESRGTDIILHLREEGKEFLSEWRLRDVISKYSDHIGIPVYIQTSVMDEEGKATEETKWEQINKAQALWTRAKSEVTDEEYKEFYKHVSHDFADPLVWSHNKVEGKNDYTSLLYIPAKAPWDLFNREHKHGLKLYVQRVFIMDDAAQFMPSYLRFVRGLIDSNDLPLNVSREILQDNKITQSLRQACTKRVLTMLERMASNDADNYQKFWKEFGLVMKEGPAEDFANREKIASLLRFASTHIDSAEQTISLASYVERMKEGQDKIYYLTADSYTAAKNSPHLEQFKSKGIEVILMFDRIDEWLMNYLPEFEGKAFQSITKAGLDLSQFEDEAEKEKHKETEEQFKSVVERLKGYLGSRVKEVRTTFKLANTPAVVVTDDYEMGTQMAKLLAAAGQPVPEVKYILEVNPEHALVKRMADEADEQTFGRWAEVLLGQAMLAERGSMEDPSQFLGAVNQLLAPSH |
| 4184 | sp|P33416|HSP78\_YEAST | MLRQATKAPIQKYLQRTQLLRRSTPRIYTIVQCKRSICSFNARPRVANKLLSDIKTNALNEVAISTCALKSSYGLPNFKRTYVQMRMDPNQQPEKPALEQFGTNLTKLARDGKLDPVIGRDEEIARAIQILSRRTKNNPCLIGRAGVGKTALIDGLAQRIVAGEVPDSLKDKDLVALDLGSLIAGAKYRGEFEERLKKVLEEIDKANGKVIVFIDEVHMLLGLGKTDGSMDASNILKPKLARGLRCISATTLDEFKIIEKDPALSRRFQPILLNEPSVSDTISILRGLKERYEVHHGVRITDTALVSAAVLSNRYITDRFLPDKAIDLVDEACAVLRLQHESKPDEIQKLDRAIMKIQIELESLKKETDPVSVERREALEKDLEMKNDELNRLTKIWDAERAEIESIKNAKANLEQARIELEKCQREGDYTKASELRYSRIPDLEKKVALSEKSKDGDKVNLLHDSVTSDDISKVVAKMTGIPTETVMKGDKDRLLYMENSLKERVVGQDEAIAAISDAVRLQRAGLTSEKRPIASFMFLGPTGTGKTELTKALAEFLFDDESNVIRFDMSEFQEKHTVSRLIGAPPGYVLSESGGQLTEAVRRKPYAVVLFDEFEKAHPDVSKLLLQVLDEGKLTDSLGHHVDFRNTIIVMTSNIGQDILLNDTKLGDDGKIDTATKNKVIEAMKRSYPPEFINRIDDILVFNRLSKKVLRSIVDIRIAEIQDRLAEKRMKIDLTDEAKDWLTDKGYDQLYGARPLNRLIHRQILNSMATFLLKGQIRNGETVRVVVKDTKLVVLPNHEEGEVVEEEAEK |
| 4185 | sp|A4WG67|HSLU\_ENT38 | MSEMTPREIVSELNKHIIGQDNAKRSVAIALRNRWRRMQLDEELRHEVTPKNILMIGPTGVGKTEIARRLAKLANAPFIKVEATKFTEVGYVGKEVDSIIRDLADSAMKMVRVQAIEKNRYRAEEMAEERILDVLIPPAKNNWGQNEQPQEPSAARQAFRKKLREGQLDDKEIEIDLAAAPMGVEIMSPPGMEEMTSQLQSMFQNLGGQKQKPRKLKIKDAMKLLIEEEAAKLVNPEELKQDAIDAVEQHGIVFIDEIDKICKRGESNGPDVSREGVQRDLLPLVEGCTVSTKHGMVKTDHILFIASGAFQVAKPSDLIPELQGRLPIRVELQALTTDDFERILTEPNASITVQYKALMATEGVTIEFTADGIKRIAQAAWQVNETTENIGARRLHTVLERLVEDISYEASDLNGQSITIDADYVSKHLDALVADEDLSRFIL |
| 4186 | sp|B1M5N6|HSLU\_METRJ | MTTFSPREIVSELDRFIVGQHDAKRAVAIALRNRWRRQQLTGPLREEVAPKNILMIGPTGCGKTEIARRLARLANAPFLKVEATKFTEVGYVGRDVEQIVRDLVEVAIGLTRQAKREGVKAKAEAAAENRILDALVGPTASQATRDSFRRKLRNSELDDKEVELELTSSAPAGMPMFEIPGVPGASMGAINIGDMLGKALGGQRGKPRRILVRDAYAPLMAEESDKLVDDEALVREAIREVENNGIVFLDEIDKICAREGRSSGDVSREGVQRDLLPLIEGTTVATKHGPVKTDHVLFIASGAFHVSKPADLLPELQGRLPIRVELQPLTVDDFKQILTATEASLLKQTVALMETEGVTLTFTDDAVDALARVAVEVNSSVENIGARRLQTVLERVIDEISFTATDRSGETVPIDAAYVRERVQDLASNADLSRFIL |
| 4187 | sp|Q3KFT8|HTPG\_PSEPF | MSVETQKETLGFQTEVKQLLHLMIHSLYSNKEIFLRELISNASDAVDKLRFEALAKPELLEDGAELKIRVSFDKDAKTVTLEDNGIGMNRDDVITHLGTIAKSGTADFMKNLSGDQKKDSHLIGQFGVGFYSAFIVADKVDVYSRRAGTAASEGVHWSSKGEGEFEVATIDKPERGTRIVLHLKSGEEEFADGWRLRNIIKKYSDHIALPIELPKEVAAAEGEEKPEVEWETVNRASALWTRPRTEVKDEEYQEFYKHIAHDFENPLSWSHNKVEGKLEYSSLLYVPARAPFDLYQREAPKGLKLYVQRVFVMDQAESFLPLYLRFIKGVVDSNDLSLNVSREILQKDPIIDSMKSALTKRVLDMLEKLAKNEPEQYKGFWKNFGQVMKEGPAEDFANKEKIAGLLRFASTNGTDGEQIVGLAEYLARAKEGQDKIYYLTGETYAQVKNSPHLEVFRKKGIEVLLLTDRIDEWLMSYLSEFDGKTFVDVARGDLDLGNLDSEEDKKAAEEVAKSKEGLVERLKTALGDSVAEVRVSHRLTDSPAILAIGEQDLGLQMRQILEASGQKVPDSKPIFEFNPSHPLIEKLDNEASEDRFSDLSHILFDQAALAAGDSLKDPAAYVSRLNKLLVELSA |
| 4188 | sp|P0AB23|HSPQ\_SHIFL | MIASKFGIGQQVRHSLLGYLGVVVDIDPVYSLSEPSPDELAVNDELRAAPWYHVVMEDDNGLPVHTYLAEAQLSSELQDEHPEQPSMDELAQTIRKQLQAPRLRN |
| 4189 | sp|B7N2S2|HSLU\_ECO81 | MSEMTPREIVSELDKHIIGQDNAKRSVAIALRNRWRRMQLNEELRHEVTPKNILMIGPTGVGKTEIARRLAKLANAPFIKVEATKFTEVGYVGKEVDSIIRDLTDAAVKMVRVQAIEKNRYRAEELAEERILDVLIPPAKNNWGQTEQQQEPSAARQAFRKKLREGQLDDKEIEIDLAAAPMGVEIMAPPGMEEMTSQLQSMFQNLGGQKQKARKLKIKDAMKLLIEEEAAKLVNPEELKQDAIDAVEQHGIVFIDEIDKICKRGESSGPDVSREGVQRDLLPLVEGCTVSTKHGMVKTDHILFIASGAFQIAKPSDLIPELQGRLPIRVELQALTTSDFERILTEPNASITVQYKALMATEGVNIEFTDSGIKRIAEAAWQVNESTENIGARRLHTVLERLMEEISYDASDLSGQTITIDADYVSKHLDALVADEDLSRFIL |
| 4190 | sp|B7UNQ1|HSLU\_ECO27 | MSEMTPREIVSELDKHIIGQDNAKRSVAIALRNRWRRMQLNEELRHEVTPKNILMIGPTGVGKTEIARRLAKLANAPFIKVEATKFTEVGYVGKEVDSIIRDLTDAAVKMVRVQAIEKNRYRAEELAEERILDVLIPPAKNNWGQTEQQQEPSAARQAFRKKLREGQLDDKEIEIDLAAAPMGVEIMAPPGMEEMTSQLQSMFQNLGGQKQKARKLKIKDAMKLLIEEEAAKLVNPEELKQDAIDAVEQHGIVFIDEIDKICKRGESSGPDVSREGVQRDLLPLVEGCTVSTKHGMVKTDHILFIASGAFQIAKPSDLIPELQGRLPIRVELQALTTSDFERILTEPNASITVQYKALMATEGVNIEFTDSGIKRIAEAAWQVNESTENIGARRLHTVLERLMEEISYDASDLSGQTITIDADYVSKHLDALVADEDLSRFIL |
| 4191 | sp|P18694|HSP72\_USTMA | MTKAIGIDLGTTYSCVAVWQNDRVEVIANDQGNRTTPSYVAFTDSERLIGDAAKNQVAMNPHNTVFDAKRLIGRKFDDAEVQSDMKHWPFEVTSVGGKPQIRIEYKGEKKTFTPEEISSMVLLKMRETAEAYLGGTVKDAVVTVPAYFNDSQRQATKDAGIISGLNVMRIINEPTAAAIAYGLDKKTEGEKNVLIFDLGGGTFDVSLLTIEEGIFEVKATAGDTHLGGEDFDNRLVNHFVQEFKRKNKKDLTTNARALRRLRTACERAKRTLSSAAQTTIEIDSLFEGIDFYTSITRARFEELCGDLFSHTIEPVEKVLRDSKIDKGSVHEIVLVGGSTRIPKVQKLLTDFFNGRELNKSINPDEAVAYGAAVQAAILSGDTSEKTQDLLLLDVAPLSMGIETAGGVFTPLIKRNTTVPTKKSEIFSTYADNQPGVLIQVFEGERARTKDNNLLGKFELSGIPPAPRGVPQIEVTFDVDANAILNVSAAEKGTGKSEKITIRNDKGRLSSEQIEEMLKQAEQFAEEDKQALERTQAKNGLESYIYNVRNTTNEPQLKDKLEAADKEALEKIVKEGIEWLDSNTTASTDELKDKQKEIEEQVNPIMTKIYSAAGGAPGGMPGGAPGAAPGGAAPGGDDGPTVEELD |
| 4192 | sp|Q94BZ5|HSFA5\_ARATH | MNGALGNSSASVSGGEGAGGPAPFLVKTYEMVDDSSTDQIVSWSANNNSFIVWNHAEFSRLLLPTYFKHNNFSSFIRQLNTYGFRKIDPERWEFLNDDFIKDQKHLLKNIHRRKPIHSHSHPPASSTDQERAVLQEQMDKLSREKAAIEAKLLKFKQQKVVAKHQFEEMTEHVDDMENRQKKLLNFLETAIRNPTFVKNFGKKVEQLDISAYNKKRRLPEVEQSKPPSEDSHLDNSSGSSRRESGNIFHQNFSNKLRLELSPADSDMNMVSHSIQSSNEEGASPKGILSGGDPNTTLTKREGLPFAPEALELADTGTCPRRLLLNDNTRVETLQQRLTSSEETDGSFSCHLNLTLASAPLPDKTASQIAKTTLKSQELNFNSIETSASEKNRGRQEIAVGGSQANAAPPARVNDVFWEQFLTERPGSSDNEEASSTYRGNPYEEQEEKRNGSMMLRNTKNIEQLTL |
| 4193 | sp|Q3KJB6|HSLU\_PSEPF | MSMTPREIVHELNRHIIGQDDAKRAVAIALRNRWRRMQLPEELRVEVTPKNILMIGPTGVGKTEIARRLAKLANAPFIKVEATKFTEVGYVGRDVESIIRDLADAAIKMLREQEMTRVRHRAEDAAEDRILDALLPPARMGFSNEEAPTQDSNTRQLFRKRLREGQLDDKEIEIEVAEMAGIEIATPPGMEEMTNQLQNLFANMGKGKKKARKLKVKEALKLVRDEEAGRLVNEEELKAKALEAVEQHGIVFIDEIDKVAKRGNVGGADVSREGVQRDLLPLIEGCTVNTKLGMVKTDHILFIASGAFHLSKPSDLVPELQGRLPIRVELKALSPQDFERILSEPHASLTEQYCALLKTEGLNIQFQPEGIKRLAEIAWQVNEKTENIGARRLHTLLERLLEEVSFSAGDLASAHDDKAIQIDAEYVNSHLGELAQNEDLSRYIL |
| 4194 | sp|A1AWE2|HTPG\_RUTMC | MAEKQIHTFQTEVSQLLDLMIHSLYSNKEIFLRELVSNSSDAVDKLKFKSLSDDTLIEGKEELQIHINTNKDASTITITDNGIGMTEAEVNKNIGTIANSGTKKFLKSLDEKQTKDSNLIGQFGVGFYSSFIVADKVELITRKAGSKSKKGTKWTSTGKGKYSIERVNCLNFGTSVTLHIKKDEKEFLDDYRLRGIISKYSDHITVPIMMIKASEDGKDIEYERINKANAFWSQDKRDLKQENYDEFYKSLTYDFEAPLTQLHNRVEGNIDYTSLLFIPSKAPHDMWEPKRKGGIKLYAKRVFIMEDNEALMPLYLRFVKGVIDTADLPLNVSREILQGNKVVDTIRKASVSRVLKELEKMAKNKPEDYEKFWQEFGMVMKEGVVEDFANKDKIAKLLRFTTNKSESAAQTATLECYVKSMQKDQKAIYYITAETYEAAKGSPHLEIFNQKDIEVLLLSDRVDEWMVNNFGKFEDVPLKSITKGDLEGLDSKEEKKAKEEVSKNFEKVIEKMQKILDTQVKEIKVSSRLSDSPSCLVVDENEMGGNMERIMKSLGQDVPDTKPILEINPNHPLVKKLKTKIDEDLVKVLFDQAVLSEGVQLKDPAEFVKRINKLIN |
| 4195 | sp|P37900|HSP7M\_PEA | MAATLLRSLQRRNLSSSSVSAFRSLTGSTKTSYATHKLASLTRPFSSRPAGNDVIGIDLGTTNSCVSVMEGKNPKVIENSEGARTTPSVVAFNQKSELLVGTPAKRQAVTNPTNTLFGTKRLIGRRFDDAQTQKEMKMVPYKIVRAPNGDAWVEANGQQYSPSQIGAFVLTKIKETAEAYLGKTISKAVVTVPAYFNDAQRQATKDAGRIAGLDVQRIINEPTAAALSYGMNNKEGLIAVFDLGGGTFDVSILEISNGVFEVKATNGDTFLGGEDFDNALLDFLVSEFKRTESIDLAKDKLALQRLREAAEKAKIELSSTSQTEINLPFISADASGAKHLNITLTRSKFEALVNNLIERTKAPCKSCLKDANISIKDVDEVLLVGGMTRVPKVQQVVSEIFGKSPSKGVNPDEAVAMGAALQGGILRGDVKELLLLDVTPLSLGIETLGGIFTRLISRNTTIPTKKSQVFSTAADNQTQVGIKVLQGEREMAADNKSLGEFDLVGIPPAPRGLPQIEVTFDIDANGIVTVSAKDKSTGKEQQITIRSSGGLSDDEIDKMVKEAELHAQRDQERKALIDIRNSADTSIYSIEKSLAEYREKIPAEVAKEIEDAVSDLRTAMAGENADDIKAKLDAANKAVSKIGQHMSGGSSGGPSEGGSQGGEQAPEAEYEEVKK |
| 4196 | sp|O73885|HSP7C\_CHICK | MSKGPAVGIDLGTTYSCVGVFQHGKVEIIANDQGNRTTPSYVAFTDTERLIGDAAKNQVAMNPTNTVFDAKRLIGRRFDDSVVQSDMKHWPFTVVNDAGRPKVQVEYKGETKSFYPEEISSMVLTKMKEIAEAYLGKTVTNAVVTVPAYFNDSQRQGTKDAGTIAGLNVLRIINEPTAAAIAYGLDKKVGAERNLLIFDLGGGTFDVSILTIENGIFEVKSTAGDTHLGGEDFDNRLVNHFIAEFKRKHKKDISENKRAVRRLRTACERAKRTLSSSTQASIEIDSLYEGIDFYTSITRARFEKLNADLFRGTLDPVEKALRDAKLDKSQIHDIVLVGGSTRIPKIQKLLQDFFNGKELNKSINPDEAVAYGAAVQAAILSGDKSENVQDLLLLDVTPLSLGIETAGGVMTVLIKRNTTIPTKQTQTFTTYSDNQPGVLIQVYEGERAMTKDNNLLGKFELTGIPPAPRGVPQIEVTFDIDANGILNVSAVDKSTGKENKITITNDKGRLSKEDIERMVQEAEKYKAEDEKQRDKVSSKNSLDSYAFNMKATVEDEKLPGKILDEDHQNILDKCNEIINWLDKNQTAEKEEFEHQQKELEKVCNPIITKLYQSAGGMPGGMPGGFPGGGAPPSGGASSGPTIEEVD |
| 4197 | sp|B2JYU3|HSPQ\_YERPB | MIASKFGIGQQVRHSLHGYLGVVIDIDPEYSLAPPEPDEVANNKTLRSSPWYHVVIEDDDGQPVHTYLAEAQLTYEDVDAHPEQPSLDELAASIRHQLQAPHLRN |
| 4198 | sp|A9MZI1|HSLU\_SALPB | MSEMTPREIVSELNKHIIGQDNAKRSVAIALRNRWRRMQLDEELRHEVTPKNILMIGPTGVGKTEIARRLAKLANAPFIKVEATKFTEVGYVGKEVDSIIRDLTDAAVKMVRVQAIEKNRYRAEELAEERILDVLIPPAKNNWGQAEQQQEPSAARQTFRKKLREGQLDDKEIEINLAAAPMGVEIMAPPGMEEMTSQLQSMFQNLGGQKQKPRKLKIKDAMKLLVEEEAAKLVNPEELKQDAIDAVEQHGIVFIDEIDKICKRGETSGPDVSREGVQRDLLPLVEGCTVSTKHGMVKTDHILFIASGAFQVAKPSDLIPELQGRLPIRVELQALTTSDFERILTEPNASVTVQYKALMATEGVNIEFTDSGIKRIAEAAWQVNETTENIGARRLHTVLERLMEEISYNASDLHGQNITIDAEYVSKHLDALVADEDLSRFIL |
| 4199 | sp|A6U172|HSLU\_STAA2 | MDTAGIRLTPKEIVSKLNEYIVGQNDAKRKVAIALRNRYRRSLLDEESKQEISPKNILMIGPTGVGKTEIARRMAKVVGAPFIKVEATKFTEVGYVGRDVESMVRDLVDVSVRLVKAQKKSLVQDEATAKANEKLVKLLVPSMKKKASQTNNPLESLFGGAIPNFGQNNEDEEEPPTEEIKTKRSEIKRQLEEGKLEKEKVRIKVEQDPGALGMLGTNQNQQMQEMMNQLMPKKKVEREVAVETARKILADSYADELIDQESANQEALELAEQMGIIFIDEIDKVATNNHNSGQDVSRQGVQRDILPILEGSVIQTKYGTVNTEHMLFIGAGAFHVSKPSDLIPELQGRFPIRVELDSLSVEDFVRILTEPKLSLIKQYEALLQTEEVTVNFTDEAITRLAEIAYQVNQDTDNIGARRLHTILEKMLEDLSFEAPSMPNAVVDITPQYVDDKLKSISTNKDLSAFIL |
| 4200 | sp|Q58FG1|HS904\_HUMAN | MESLTDPSKLDSGKEPHISLIPNKQDRTLTIVDTGIGMTKADLINNLGTITKSETKVFMEVLQAGADISMIGQFSVGFYSAYSVAEKVTVITKHNNDEQYAWESSLRGSFTEYREFYKSLTINWEDYLAVKHFSVEGQLEFRAFLFVPRLAPFELLETRKKKNKIKLSARRDLIMDNCEELIPEYLNFIRGVVDSEDLPLNIFRETKDQVANSTIVQRLWKHGLEVIYTIEPIDEYCVQQLKEFEGKTLVSVTKEDLELPEDEEEKKKQEEGKQKTKQKKNQSLRTSAKSTYGWTANMERIMKAQALRDNSTTGYMAAKKHLEINPDHSFIDTLRQKAETDKNDKSVKDLVILLYETALLSSDFGLEGPQTHANRIYRMNKLGLGTDEDDPTADDTSAAVTEEMPPLEGDDDTSRMEK |
| 4201 | sp|Q9SAB1|HSP7Q\_ARATH | MSVVGFDVGNENCVIAVAKQRGIDVLLNDESNRENPAMVSFGEKQRFMGAAAAASATMHPKSTISQLKRLIGRKFREPDVQNDLRLFPFETSEDSDGGIQIRLRYMGEIQSFSPVQILGMLLSHLKQIAEKSLKTPVSDCVIGIPSYFTNSQRLAYLDAAAIAGLRPLRLMHDSTATALGYGIYKTDLVANSSPTYIVFIDIGHCDTQVCVASFESGSMRVRSHAFDRNLGGRDFDEVLFNHFALEFKEKYNIDVYTNTKACVRLRASCEKVKKVLSANAEAQLNIECLMEEKDVRSFIKREEFEQLSAGLLERLIVPCQKALADSGLSLDQIHSVELVGSGSRIPAISKMLSSLFKRELGRTVNASECVARGCALQCAMLSPVFRVRDYEVQDSYPFAIGFSSDKGPINTPSNELLFPKGQIFPSVKVLTLHRENTFQLEAFYANHNELSPDIPTQISSFMIGPFHISHGEAARVKVRVQLNLHGIVTIDSATLIEYHKENITSEEMISEENHQSSAMKDGSLDPSSGSIGNEPKAIKRMEIPVVANVSGALTKDELSEAKQRENSLVEQDLKMESTKDKKNALESFVYEMRDKMLNTYRNTATESERECIARNLQETEEWLYEDGDDESENAYIEKLNDVKKLIDPIENRFKDGEERVQASKDLLKTIADNRMAAESLPPPRKNAVLDECHKAERWLHEKTTEQESLPKDANPELQSAEIRRKADALNATCKYIGKSNSPPAKPEHNGSYGSRKSDDMELD |
| 4202 | sp|B3Q8B9|HSLU\_RHOPT | MTDFSPREIVSELDRFIVGQADAKRAVAIALRNRWRRLQLEGSLREEVLPKNILMIGPTGVGKTEIARRLAKLAGAPFLKVEATKFTEVGYVGRDVEQIIRDLVEVAIAQVREKKRKDVQARAQVAAEERVLDALVGPGSGPATRDSFRKKLRAGELNDKEIEIETQAGSGSPMFEIPGMPGAQIGAVSLGDIFGKMGGRTKKRRLTVADSHEILVNEEADKLLDTDQLVQEAIAAVENNGIVFLDEIDKICVRDGRSGGEVSREGVQRDLLPLIEGTTVSTKHGAVKTEHILFIASGAFHIAKPSDLLPELQGRLPIRVELNALSRDDMRRILTEPEASLIKQYVALMKTEGVTLDFSDDAIDALADVAVAVNSTVENIGARRLQTVMERVLDEISFVAPDRHGETFQVDADYVKTNVGDLAKNTDLSRFIL |
| 4203 | sp|Q2JJ73|HRCA\_SYNJB | MKLELTPRQRKILWATVRSYIATAEPVGSKTLAQSYNFGVSTATIRNDLATLEQVGLLFQPHTSAGRVPSDFGYRVYVNDLLTSANSGGIPHDAPQPDPHPALQQLMDQLGRELGDDLDSLLQRVAQLLAHLSGCIALITPPQGPVVAIHHVQLVSVAPGRVMVLVVTDSYQTHSALVSPPDWPSDSREDLEDELQLLSNFLTLKLRGKTFAELQDLSWLKLDEEFRTYGHWLQQLLRSVVQRCLQPSLGQVFSAGMAELMRQPEFSQARQVQAVMQLIEEGAKQLQGMIGLHFADGGDPQLAYLPPLPSSTEMDQESGQSARKTPVIIYIGSENPLESLHHCTVIASTYHRRSAPLGTVTLLGPTRMAYERSIAAVQAVASHLTRALA |
| 4204 | sp|Q0VMA6|HSLV\_ALCBS | MEQYRGTTIVSVRRGNNVVIGGDGQVSLGNTVMKGNARKVRRLFHGKVIAGFAGGTADAFTLFERFEAQLEKHQGHLVRAAVELAKDWRTDRALRRLEALLAVADKESSLIITGNGDVIEPEKDGLIAIGSGGPFAQSAATALLDNTDLPARDIVAKALTIAGDICIYTNHNHTFEELDG |
| 4205 | sp|B0K9V3|HSLU\_THEP3 | MKNYTPKEIVEELDKYIVGQKEAKKSVAVALRNRYRRNLLPDDFKEEVTPKNIIMVGPTGVGKTEIARRIAKLVEAPFVKVEATKFTEVGYVGRDVDSMVRDLVEAAVRMVKEEKLKKVTEKAKKIAEDRLIDYIIGKRKKQTKNPFEVLFNYPSAEKSEETEEESMQYKREEIRQKLRNGELDNYVVEIEVTDTSTPMLEMYTNLGSEEMNINLQDIFADILPKKKKIKKVPVYEAKRILESEEAQNLIDMDEVIEEAIKRAENDGIIFIDEIDKIASSGYTAGPDVSREGVQRDILPIIEGCTVMTKYGPVKTDHILFIAAGAFNVAKVSDLIPELQGRFPVRVNLKPLTKEDFIRILKEPKNALTKQYQELLRTEGIEVKYTDEAIEAIAEVAYLINQQSEDIGARRLHTVMEKLFEELSFNAPELGGQQIVITEEYVKEQLKDSLNKYEVSKYIL |
| 4206 | sp|P02828|HSP83\_DROME | MPEEAETFAFQAEIAQLMSLIINTFYSNKEIFLRELISNASDALDKIRYESLTDPSKLDSGKELYIKLIPNKTAGTLTIIDTGIGMTKSDLVNNLGTIAKSGTKAFMEALQAGADISMIGQFGVGFYSAYLVADKVTVTSKNNDDEQYVWESSAGGSFTVRADNSEPLGRGTKIVLYIKEDQTDYLEESKIKEIVNKHSQFIGYPIKLLVEKEREKEVSDDEADDEKKEGDEKKEMETDEPKIEDVGEDEDADKKDKDAKKKKTIKEKYTEDEELNKTKPIWTRNPDDISQEEYGEFYKSLTNDWEDHLAVKHFSVEGQLEFRALLFIPRRTPFDLFENQKKRNNIKLYVRRVFIMDNCEDLIPEYLNFMKGVVDSEDLPLNISREMLQQNKVLKVIRKNLVKKTMELIEELTEDKENYKKFYDQFSKNLKLGVHEDSNNRAKLADFLRFHTSASGDDFCSLADYVSRMKDNQKHVYFITGESKDQVSNSAFVERVKARGFEVVYMTEPIDEYVIQHLKEYKGKQLVSVTKEGLELPEDESEKKKREEDKAKFESLCKLMKSILDNKVEKVVVSNRLVDSPCCIVTSQFGWSANMERIMKAQALRDTATMGYMAGKKQLEINPDHPIVETLRQKADADKNDKAVKDLVILLFETSLLSSGFSLDSPQVHASRIYRMIKLGLGIDEDEPMTTDDAQSAGDAPSLVEDTEDASHMEEVD |
| 4207 | sp|C3PN29|HSLV\_RICAE | MSDNLSLHGTTILCLKKNEEIIIAADGQVSHGNTVLKSTARKLRTIANNKIIAGFAGSTADGLALFEKLAVKIEQHKHNLLRSAVELAKDWRSDKYLRRLEAMMIVADRSHILILTGNGDVVEPENNVAAIGSGGLFALSAARALMSYENNLTAEEIALKSMNIAADLCVFSNHNIIMEKVV |
| 4208 | sp|Q9ZMW2|HRCA\_HELPJ | MLKRIKVGSDLNKKESLLDAFVKTYLQTLEPISSKRLKELANLKVSCATIRNYFQILSKEGMLHQAHSSGARLPTFKAFENYWHKSLRFEVLKVNEKRLKSASENFGLFTLLKKPSLERLERVIECEKRFLILDFLAFSCAVGYSVKMEKFLLELVGRSVKEVRLIAASVNALSLARQLERLEYSSAQITRFNLMGLKTLLNSPLFFDILEGKVLERFKKGLHFIEPDCMLVTRPIEFQNERMQLLCVGKLECDYEGFFQTISKEE |
| 4209 | sp|Q5HFH8|HRCA\_STAAC | MITDRQLSILNAIVEDYVDFGQPVGSKTLIERHNLNVSPATIRNEMKQLEDLNYIEKTHSSSGRSPSQLGFRYYVNRLLEQTSHQKTNKLRRLNQLLVENQYDVSSALTYFADELSNISQYTTLVVHPNHKQDIINNVHLIRANPNLVIMVIVFSSGHVEHVHLASDIPFNNDKLNTISNFVTNKLTEFNQNLQDDIVSFVQSEQEEIFINKLLNTMNNHISNQSNSIYMGGKVKLIDALNESNVSSIQPILQYIESNRIAELLQDISSPNINVKIGNEIDDSLSDISIVTSQYHFDETLKGQIAVIGPTAMHYQNVIQLLNRIW |
| 4210 | sp|B1L8X3|HSLU\_THESQ | MKSFDEMTPKEIVQELDKYIVGQYEAKKAVAIAVRNRIRRQKLPEEWRKEVLPKNILMIGPTGVGKTEIARRLAQLSGSPFLKVEATRFTEVGYVGKNVDSMIRDLVEISVNMVKQEKIKEVERQAEELVEERILDALVPESKAVPVVTNPFINLITGGQQQQYTPEDRRRFRAKREEMREKLRKGELENEEIEIELEETVSPFMGIFGPGMEDLGIEITNMFSGMLPKQKKKRKMKVSEARKVLLPLEAEKLIDMDKVVQEALDRAQNRGIIFIDEIDKIAGKESAVGPDVSRQGVQRDLLPIVEGTTIMTKYGPVRTDYILFIAAGAFHVSRPSDLIPELQGRFPIRVELSPLTEEDFVRILKEPENAIIKQYQALLSTEGVELVFTEDGIREMARIAYQLNQRLENIGARRLYTVAEKVLEEISFEAPDIPEKRIVVDAEYVRRRLERIVQDEDLSAYIL |
| 4211 | sp|Q4A902|HRCA\_MYCH7 | MPKLDSKKEKYLKQIVENFIKTGESIGSLNLKQSYGIKKSPSYLRAIMNQLEKEGFLEKSHSSSGRIPTLQGFQYYAEFLSFDENENLANKLKDLFARRRINIENTISEAVKLISESVGTTLIATTNNENERLMSINLTQISQNEGIIVVVSSSGNVENKKITFSEQIPRQDVKIAIRLFQERLINTPLLEISSKLAILKQELEKQIKHSDELLHHFMEKIFNFQVQNKSNIYNKNSLILDKEISRAKLVDLLYIIEKKSIWEMLEDRTTKDDDTLKISIKSPEVSFISKKFEKFLPIKEISMVGAAKKINYSAARTGIKLLEDFLSNKSKIRKG |
| 4212 | sp|A7X1M9|HSLV\_STAA1 | MSNTTLHATTIYAVRHNGKAAMAGDGQVTLGQQVIMKQTARKVRRLYEGKVLAGFAGSVADAFTLFEKFETKLQQFSGNLERAAVELAQEWRGDKQLRQLEAMLIVMDKDAILVVSGTGEVIAPDDDLIAIGSGGNYALSAGRALKRHASHLSAEEMAYESLKVAADICVFTNDNIVVETL |
| 4213 | sp|A5UYW7|HRCA\_ROSS1 | MTTDLTDRRRLILKLAIQEFIESSQPVASDLLVRKYRLNVSPATVRNELAALEELGYLTHLHTSAGRVPTDAGYRYFVENLMDRTPLSATEQRTIRHQFYQVRSELDQWIQLAGAVLARTAQNASVVTPPRAQQARLKHLELIAIHETTALMVLVLHDGTIRQQTLTLDVAMTQEELSRCAAQINERCCDAPVERIEEVLKQERAQEPPGGNALVCQVLDLVVKAMHQFNEHISSDIHSDGLIEILNQPEFSRVERVRRMVEILQSGRALGTLIPRALSSSGVQVVIGGEHSYDEMREYSVVLSRYGGGEIVGVLGVIGPTRMAYPRAISAVRYISAVMSDLLAELYGIEGANRLNSEP |
| 4214 | sp|B1Y3N8|HRCA\_LEPCP | MLDERAKMLLKTLVERYIADGQPVGSRTLSKTSGLELSPATIRNVMSDLEELGLIASPHTSAGRIPTARGYRLFVDSMLTSRAFAREVADTGSAPLLQPDQPKRVIANAAQLLSSLSQFVGVVTVPKKPSVFRHMEFLRLGERRVLLILVSPDGDVQNRVLFTAHDYTQSQLVEATNYLNAHYAGLSIEGVRERLKLEVDALRGEIGTLMQAAVQAGTEAVNEDTEQLIVSGERNLLGVQDFGSDMGSIRKMFDLFEQKTQLLRLLDGSSRADGVRIYIGGESGVVPIEELSVVSAPYEVDGQVVGTLGVIGPTRMAYERMIQIVDITSRLVGNALSQKQG |
| 4215 | sp|Q92SK1|HRCA\_RHIME | MVLRNPGTKGIASALDERSGEIFRRIVESYLESGEPLGSRNLSRLLPVSLSPASVRNVMSDLEDLGLIYSPHVSAGRLPTQLGLRFFVDAFMQVGNLSPEERASIERQVHPGNRDRSVENLLTEASQMLSGMSRGAGLVITTKSDPVLKHVEFIRLAPTKALAVLVGEHDQVENRIIELPAGITSAQLTEAANFVNAHLAGQTIPELRTQLEKVKETVRGELDALSQDLVERGLAIWSGSEGDGQPARLIVRGRANLLEGLEGTDDIERLRMLFDDLEKKDSLIEILNLAESGPGVRIFIGSENKLFSLSGSSLIVAPYRDSDDRIVGAVGVIGPTRLNYSRIVPMVDYTAQLMSRLSR |
| 4216 | sp|Q044B1|HRCA\_LACGA | MLTERQELILKTIIMDFTQSHEPVGSKTVMNQLPVKVSSATVRNEMAALEEKGLLEKTHSSSGRIPSTAGYRYYLDHLINPVKIPASVYNRIIYQLDQPFQQVNEIVQEAAKILSDLTNYTAFAAGPETRSVKVTGFRIVPLSSHQVMAILVTDDGNVKNQIYTLPHHTNGEEIEKAVRLINDQLVGKPLSSVNEVLLKRIADHLVAGGSAPEILDLLQDVIKDAASEQMYVDGQINLLSNYESDDLAKVKSLYKLIDQNDAISSLIGFNPKDEIKNDSKSKVQVKLGSELQSDLLEDYSLLTAQYSVGKYGKGTIALLGPTNMPYSQMIGLLEYFRNELAKKLLDYYGRFK |
| 4217 | sp|Q67S56|HRCA\_SYMTH | MIDDRKNKVLQAIIEDYVATAEPVGSRTIARKYNLGVSPATIRNEMSDLEELGYLEQPHTSAGRIPSNLGYRYYVDCLMPERPINPAEQELIRSTFQRKIRELDTLVRETARLLSETTHLTAVISGPQFEKAVFKEIRIVPLGNDRALLIYITDSGLVENQVVEVPLQVTMLELQQVAELLSEHLRGRRVETLSRTALQSLHRELSRYGTLLEQALHFLEQKLEPGDRHRLYFGGTSHMLDQPEFRDVQKLRGVLSFLEQEEAVAAVLGLDRLTEGVEIQIGEEIRLRELADCSVVTATYRVGDRIIGKMGVIGPRRMEYPKVVSILNAIASHLSEMNRLF |
| 4218 | sp|B7HCU2|HRCA\_BACC4 | MLTERQLLILQTIIDDFIGSAQPVGSRTLAKKDEITFSSATIRNEMADLEELGFIEKTHSSSGRVPSEKGYRFYVDHLLAPQNLPNAEIVQIKDLFAERIFEAEKIAQQSAQILSELTNYTAIVLGPKLSTNKLKNVQIVPLDRQTAVAIIVTDTGHVQSKTITVPESVDLSDLEKMVNILNEKLSGVPMEELHNKIFKEIVTVLRGYVHNYDSAIKMLDGTFQVPLSEKIYFGGKANMLSQPEFHDIQKVRSLLTMIDNEAEFYDILRHKQVGIQVKIGRENSSTAMEDCSLISATYSIGEEQLGTIAILGPTRMQYSRVISLLQLFTRQFTDGLKK |
| 4219 | sp|A8AVA6|HRCA\_STRGC | MVTERQNEILNLIIDIFTKTHEPVGSKALQDSINSSSATIRNDMAALEKQGLLEKAHTSSGRKPSVAGFQYFVKHSLSFDRLAENELYEVIKAFDHEFFNLEDILQQAADLLAKLSGCTVVALDVEPSRQRLTAFDIVVLSQHTALAVFTLDESNTITSQFMIPRNFLREDLDRLKALVQERFLGQTVLDIHYKIRTEIPQIIQRYFTTTDNVIHLFEHIFGDIFKENVIVSGKVGLLNFSDLKAYQFFDDSQKVAFEIRDSLAEDQMQSVRVADSRESCLSDLTIISSKFLIPYRGFGILAVIGPVNLDYQRVVSQVNVINRVLTMKLTDFYRYLSSNHYEVH |
| 4220 | sp|Q54JW9|IMPCT\_DICDI | MNEEQENEILAISSIYPDSFSEIETIVGEEENDGFEDNDSQYSKIYQVIITPNISCLDENSLEDNNNSNNNNNNNNNNNNNGLIIDTSYDYLIYFKFKYTKEYPSNEPPIISIKATWLQKSDQSILLSHLEDLWNQNELVIFQMISWLQEESIEILNNHYKSIKKFSHYHLKKSLNTQQLNQNQNQFENQNQNQNQNQNQNQNKEKEKEKVPTIYTGQSVTEKKSKFQAHLAIVHSEREVQLVLNQLLSFKKIYEATHNMYAYRFQLENGEINEYYNDDGEDGAGDKMLFTLSKNQAKEILIVCTRWFGGILLGGRRYVHIVNTTKDILNLYNTNSLSQCSLEFN |
| 4221 | sp|A1AJJ1|IRAD\_ECOK1 | MMRQSVQTVLPESTGNNTLSLRDSVCRDLFQLFSSPHSPLPILLVSGMPEWQGHNQSDKLLQSWYCRQLRSALLFHEPRIAALQVNLKEAYCHELAISLEMMLYHDDEPLTFDLVWQKGNWHRTMPQ |
| 4222 | sp|A3AHG5|LEA17\_ORYSJ | MASRQDRREARAEADARRAAEEIARARDERVMQAEVDARSAADEIARARADRGAATMGADTAHHAAGGGGILESVQEGAKSFVSAVGRTFGGARDTAAEKTSQTADATRDKLGEYKDYTADKARETNDSVARKTNETADASRDKLGEYKDYTADKTRETKDAVAQKASDASEATKNKLGEYKDALARKTRDAKDTTAQKATEFKDGVKATAQETRDATADTARKAKDATKDTTQTAADKARETAATHDDATDKGQGQGLLGALGNVTGAIKEKLTVSPAATQEHLGGGEERAVKERAAEKAASVYFEEKDRLTRERAAERVDKCVEKCVEGCPDATCAHRHGKM |
| 4223 | sp|A9B5N1|LON1\_HERA2 | MSEVERTTTIPDEIAILPLLGTVAYPQTIMPLAIGQPESIRLIDDLMAGQRIVGLMALKNEDERPNPVLPEDFYQLGSAAVVHKLMKLPDGTLRAAMQVLERIEIVEIIQTEPYYRAKIRVMPDALAESEQLEVTALMRSIGTIASQIAPLIPQFPTELLNSVLSEEDPRRLAYLVASYARMSVTDRQAVLAEPSIKQKLLKLNEVLTRELNVLQIGQQIQSQVQDEMSKTQREYVLREQLKAIRKELGENNEQEVEVDRLAEQIEAAGMSAEAHQQAMRELDRLRQMPTAAAEYSVIRGYLETLIALPWQKRSDDTIDVAQATEVLDADHYGLDEIKERILDYLAVRELRRKRSPERDPGRGAILCFVGPPGVGKTSLGRSIAKAMNREFVRLSLGGVHDEAEIRGHRRTYIGAMPGSLIQAIRRSGVNNPVVLLDEIDKLSSDHRGDPTSAMLEVLDPAQNTNFRDHYLDVAWDLSPVMFIATANTLQTIPAPLRDRLEIIQLGSYTMREKYEIASRYLVPEQREQHSLAPNEVEIDHEALLVAIEEYTREAGVRNLEQQIGTLMRKAARQVALGSATPIVLDPAKTREYLGKRRYFSEIHERTDRPGIVTGLVWTPVGGDIIFIEATKMTGRGNFALSGQLGDVMKESARAALSWVRAEGEAYGIDPNFAQHYDLHVHVPAGAQPKDGPSAGIAMATALVSLLTGRVLRDDVAMTGEITLRGKVLPIGGVREKVLAAHRAGIRTIILPQRNLADLDEIPADVLAEVQFHGVEHVGQVIELALRAEASEAPVSVPESAVMPNLFQSDVEVLVH |
| 4224 | sp|Q3A334|LON2\_PELCD | MTGHPLDAIPPELPVYPLHDQVIFPHMSFPLFIGKEHMGLVEEALRNNRLLVVLTVLAIDPITGREQFARVGTICRINQVLRFPEGGCKIILEGVNRVRLITTLQVTPFAMASVSLIPERENRNSVAQALMQSIIALLRVAQSLGQMLPEDAHHAIDRIDESGKLADSLAVYLNMEVKDQQRLLETLDPLERLKDVYLFLTTEIQKMQARGGGSADRSRQAVRSQKEHLLREQLKHIQNQLGEEDPHQADIRQFRSIVQSDEMPEVVRSVAEKELARLERINPSSPEYTVARSYVEYLCNMPWQRGTSDILDIDRAQQTLDDDHYDLVEVKERILEFLAVHSLKSSLKGPILCFVGPPGVGKTSLGRSIARSLGRKFIRISLGGMKDEAEIRGHRRTYIGAMPGRIIQEICRAGANNPVFMLDEVDKIGQDFRGDPAAALLEVLDPEQNYSFTDHYLDVPFDLSHVMFITTANVMDTVPPPLRDRMEVLRLPGYSDEEKLQIAFKYLIPKQVSENGLDKHPLQFEEQAVLKIIKNYTREAGVRSIDRQIASVCRKVAKAVAQGKDAPEVIRSDQVEKMLGPRKYFSDVAAEEDRVGVVTGLAWTESGGDIIFVEVSTMAGRKDLTLTGSLGNVMQESAKTALSYVRAHHADFGIDAQVFENLDIHLHVPSGAIPKDGPSAGVTIATALISQLTRRPARRNVAMTGELTLTGRILPIGGVKEKVLAARRAGVTTVLLPERNRENLKELDDHILAEMTVLLVDNLSEVVAHTLIPDTEHGPRLFDCPQHLAVDPPSGS |
| 4225 | sp|A6ZZM4|MBR1\_YEAS7 | MRMEKTTDKSLSAGDMNDEYSRGPIDDIDCLNFFERAVQDPCCEACDTEDADEELRAKLSSFNFQPDSSPCNAKCQQTLNPLCKIDEALSAESELAPSRNGSVSEANSDTNSIASTVHDPVDSKYGGMPSLRKAKTTSYFASSSSNNTTMRNPLKKCNTNINGLLVNGRSSSSSRQSIPELFSGACTKKKNNVLLKSETPNSEFSSNSLQHCNSRSFSLPRSRSRSSAIAIPTHLYGLEKYVSPGLDTLTADPEESIERFSNNRPREISSCCPNDTGDTSSSLSHSNTSSSLNFPLGTNTNQFHQPRQPVQQQQSSKPNFGAGRKKSFIEMSLASSFAG |
| 4226 | sp|Q949P1|ABAH1\_ARATH | MDISALFLTLFAGSLFLYFLRCLISQRRFGSSKLPLPPGTMGWPYVGETFQLYSQDPNVFFQSKQKRYGSVFKTHVLGCPCVMISSPEAAKFVLVTKSHLFKPTFPASKERMLGKQAIFFHQGDYHAKLRKLVLRAFMPESIRNMVPDIESIAQDSLRSWEGTMINTYQEMKTYTFNVALLSIFGKDEVLYREDLKRCYYILEKGYNSMPVNLPGTLFHKSMKARKELSQILARILSERRQNGSSHNDLLGSFMGDKEELTDEQIADNIIGVIFAARDTTASVMSWILKYLAENPNVLEAVTEEQMAIRKDKEEGESLTWGDTKKMPLTSRVIQETLRVASILSFTFREAVEDVEYEGYLIPKGWKVLPLFRNIHHSADIFSNPGKFDPSRFEVAPKPNTFMPFGNGTHSCPGNELAKLEMSIMIHHLTTKYSWSIVGASDGIQYGPFALPQNGLPIVLARKPEIEV |
| 4227 | sp|P48349|14336\_ARATH | MAATLGRDQYVYMAKLAEQAERYEEMVQFMEQLVTGATPAEELTVEERNLLSVAYKNVIGSLRAAWRIVSSIEQKEESRKNDEHVSLVKDYRSKVESELSSVCSGILKLLDSHLIPSAGASESKVFYLKMKGDYHRYMAEFKSGDERKTAAEDTMLAYKAAQDIAAADMAPTHPIRLGLALNFSVFYYEILNSSDKACNMAKQAFEEAIAELDTLGEESYKDSTLIMQLLRDNLTLWTSDMQEQMDEA |
| 4228 | sp|A9HEA1|DNAJ\_GLUDA | MATKLDYYAVLEVTRDANGDELKKAYRRLAMQYHPDRNPGDASAEARFKEINEAYDILKDEQKRAAYDRFGHAAFEGGGPGAGGFDFGGGLGDIFEQMFGDMMGGRRGGRRSGSDIQIQVSISFTEAFTGVKKPITVPTRVTCESCEGTGSADRDQGAETCPTCHGAGKVRAQQGFFLVERACPTCHGAGKVVRNPCAACHGAGTVERERTLEVAIPAGVEDGTRIRLSGEGEAGGKGAAPGDLYIHVAVEPHPIFQRDGANIYCRVPLRMSLAALGTEIEVPVVDGSRTKVKVPAGTQTGENFRLRGKGFSVLRSSARGDMYIQVSVETPRHLTKRQRELLEEFEAEAGDHERANPESTGFFSKVRDFFEGKL |
| 4229 | sp|B5XHZ0|DNAK\_STRPZ | MSKIIGIDLGTTNSAVAVLEGTESKIIANPEGNRTTPSVVSFKNGEIIVGDAAKRQAVTNPETVISIKSKMGTSEKVSANGKEYTPQEISAMILQYLKGYAEDYLGEKVEKAVITVPAYFNDAQRQATKDAGKIAGLEVERIVNEPTAAALAYGMDKTDKDEKILVFDLGGGTFDVSILELGDGVFDVLATAGDNKLGGDDFDQKIIDFLVEEFKKENGIDLSQDKMALQRLKDAAEKAKKDLSGVTQTQISLPFITAGSAGPLHLEMSLSRAKFDDLTRDLVERTKTPVRQALSDAGLSLSEIDEVILVGGSTRIPAVVEAVKAETGKEPNKSVNPDEVVAMGAAIQGGVITGDVKDVVLLDVTPLSLGIETMGGVFTKLIDRNTTIPTSKSQVFSTAADNQPAVDIHVLQGERPMAADNKTLGRFQLTDIPAAPRGIPQIEVTFDIDKNGIVSVKAKDLGTQKEQHIVIKSNDGLSEEEIDRMMKDAEANAEADAKRKEEVDLKNEVDQAIFATEKTIKETEGKGFDTERDAAQSALDELKAAQESGNLDDMKAKLEALNEKAQALAVKMYEQAAAAQQAAQGAEGAQANDSANNDDVVDGEFTEK |
| 4230 | sp|C1CCQ8|DNAK\_STRZJ | MSKIIGIDLGTTNSAVAVLEGTESKIIANPEGNRTTPSVVSFKNGEIIVGDAAKRQAVTNPDTVISIKSKMGTSEKVSANGKEYTPQEISAMILQYLKGYAEDYLGEKVTKAVITVPAYFNDAQRQATKDAGKIAGLEVERIVNEPTAAALAYGLDKTDKEEKILVFDLGGGTFDVSILELGDGVFDVLSTAGDNKLGGDDFDQKIIDHLVAEFKKENGIDLSTDKMAMQRLKDAAEKAKKDLSGVTSTQISLPFITAGEAGPLHLEMTLTRAKFDDLTRDLVERTKVPVRQALSDAGLSLSEIDEVILVGGSTRIPAVVEAVKAETGKEPNKSVNPDEVVAMGAAIQGGVITGDVKDVVLLDVTPLSLGIETMGGVFTKLIDRNTTIPTSKSQVFSTAADNQPAVDIHVLQGERPMAADNKTLGRFQLTDIPAAPRGIPQIEVTFDIDKNGIVSVKAKDLGTQKEQTIVIQSNSGLTDEEIDRMMKDAEANAEADKKRKEEVDLRNEVDQAIFATEKTIKETEGKGFDAERDAAQAALDDLKKAQEDNNLDDMKTKLEALNEKAQGLAVKLYEQAAAAQQAQEGAEGAQATGNAGDDVVDGEFTEK |
| 4231 | sp|Q5PAB8|DNAK\_ANAMM | MGVIMAAERIIGIDLGTTNSCVAVMEAGTAKVIENSEGSRTTPSVVAFTENERLVGELAKRQANINAQNTIYASKRIIGRRYDDMRDVKCPYEVFPAKNGDAWIRARGEGYSPVQIGAFVLEKIKETAERYFGAPVKKAVITVPAYFNDAQRQATKDAGTIAGLDVVRIINEPTAAALAYGLDKGDKQRTIVVYDLGGGTFDVSVLEIAEGVFEVKATNGDTKLGGEDFDNAVMEHMMESFKQETGIDLHNDPMAVQRIKEAAEKAKIELSSRLETDITLPFISSDSTGAKHLSLKLTRAKFEGLVSELIERTIEPCKKALDDAGIKDTSKIDEVVLVGGMTRMPKVIQRVKDFFGGKEPCKGVNPDEVVAIGAAIQGGILTGDVRDVLLLDVAPLSLGIETLGGVFTPLIERNTTIPTKKSQVFSTAEDGQTAVTIKVYQGERKMAVDNKLLGQFSLEGIPSAPRGIPQIEVTFDIDANGIVHVSAKDKASGKEQTIKIQSSGGLSEEEIKKMVQDAQDRAEEDEKRKKRVELKNSAEALIHSTEKSLNDYGDKISSADKSGIEAAIKELRECLSNDDSSSDVIQQKYDALMQLSMKLGEAAYSAQKDSGTSTDSTASDTSGNPEERVVDSEYQEIKKDDEDKK |
| 4232 | sp|A7MWW0|DNAK\_VIBCB | MGKIIGIDLGTTNSCVAVLDGDKPRVIENAEGERTTASVVAYTDGETLVGQPAKRQAVTNPTNTLFAIKRLIGRRFEDEEVQRDIEIMPYKIVKADNGDAWVEAQGQKMAAPQVSAEILKKMKKTAEDFLGEEVTGAVITVPAYFNDAQRQATKDAGRIAGLEVKRIINEPTAAALAYGLDKSGGDRTIAVYDLGGGTFDISIIEIDEVEGEKTFEVLATNGDTHLGGEDFDTRLINYLVDEFNKEQGINLKNDPLAMQRVKEAAEKAKIELSSTSQTDVNLPYVTADATGPKHMNVKVTRAKLESLVEDLVQRSLEPLKVALADADLSVNDITDVILVGGQTRMPMVQAKVAEFFGKEARRDVNPDEAVAMGAAVQGGVLAGDVKDVLLLDVTPLSLGIETMGGVMTKLVEKNTTIPTKANQVFSTAEDNQSAVTIHVLQGERKQASFNKSLGQFNLEGIQAAPRGMPQIEVTFDLDADGILHVSAKDKQTGKEQKITIQASGGLSDEDIEKMVQEAEANKEADKKFEELAAARNQADQMIHGTRKQVEEAGEALPAEEKEKIEAAISELETARKGDDKEAIDAKVQALMTAAQKLMEIAQQQAQAQQAQGADADAQQSKEDDVVDAEFEEVKDDKK |
| 4233 | sp|Q1QSX0|DNAK\_CHRSD | MGRIIGIDLGTTNSCVAILDGGNAKVIENAEGARTTPSIIAYTDDGETLVGQAAKRQAVTNPSNTLYAIKRLIGRKFKDDVVQKDIKMVPYTIAEADNGDAWVEVKGNKLAPPQVSAEVLKKMKKTAEDYLGEEVTEAVITVPAYFNDSQRQATKDAGRIAGLEVKRIINEPTAAALAYGMDKARGDKTIAVYDLGGGTFDISIIEVADVDGETQFEVLATNGDTFLGGEDFDLKLIDYLVQQFKSDSGIDLSGDSLAMQRLKEAAEKAKIELSAAQQTEVNLPYITADNTGPKHLNVKVTRAKLESLVEELVQNSLAPCKTALSDAGLSASEIDEVILVGGQTRMPLVQKKVADFFGKDARKDVNPDEAVAVGAAIQGGVLGGDVKDVLLLDVTPLTLGIETLGGVMTPLIEKNTTIPTKKTQVFSTADDNQTAVTIHVLQGERKQSSGNKSLGRFDLADIPPAPRGVPQIEVAFDLDANGILNVSAKDKATGKEQSIVIKASGGLSDEEIDQMVKDAEAHEAEDKKFEELVQLRNQADGMVHAARKTLEEAGDKVDASEKEQIETAISELEEATKGDDQEHIQAKLDALTEASGNLAQKMYAEQGDAGAEGGEQPAGDGAQKKEDDVVDAEYEEVNDDQKKQ |
| 4234 | sp|B1VMF3|DNAK\_STRGG | MARAVGIDLGTTNSVVSVLEGGEPTVITNAEGARTTPSVVAFAKNGEVLVGEVAKRQAVTNVDRTIRSVKRHMGTDWKIDLDGKSFNPQQMSAFILQKLKRDAESYLGEKVTDAVITVPAYFNDSERQATKEAGEIAGLNVLRIVNEPTAAALAYGLDKDDQTILVFDLGGGTFDVSLLEIGDGVVEVKATNGDNHLGGDDWDQRVVDYLVKQFANGHGVDLSKDKMALQRLREAAEKAKIELSSSTETTINLPYITASAEGPLHLDEKLTRSQFQQLTADLLDRCKTPFHNVIKDAGIQLSEIDHVVLVGGSTRMPAVAELVKELTGGQEANKGVNPDEVVAIGASLQAGVLKGEVKDVLLLDVTPLSLGIETKGGIMTKLIERNTTIPTKRSEIFTTAEDNQPSVQIQVYQGEREIAAYNKKLGMFELTGLPPAPRGVPQIEVAFDIDANGIMHVAAKDLGTGKEQKMTVTGGSSLPKDEVNRMREEAEKYAEEDHARREAAESRNQGEQLVYQTEKFLKDNEDKVPADVKTEVETAVGELKEKLKGEDSAEIRTATEKVAAVSQKLGQAMYANAQAEGAAPGADAPGDAQAKADDDVVDAEIVDDEKDTKGGAA |
| 4235 | sp|P30185|DHR18\_ARATH | MASYQNRPGGQATDEYGNPIQQQYDEYGNPMGGGGYGTGGGGGATGGQGYGTGGQGYGSGGQGYGTGGQGYGTGTGTEGFGTGGGARHHGQEQLHKESGGGLGGMLHRSGSGSSSSSEDDGQGGRRKKGITQKIKEKLPGHHDQSGQAQAMGGMGSGYDAGGYGGEHHEKKGMMDKIKEKLPGGGR |
| 4236 | sp|Q93YW0|EXEC1\_ARATH | MPSLSTPPSQNLAFSPAASATSSRLTPSSKRSFYPHRLPDPTALCRCSSSSGSNSSSSSSSDDNPRWDSAIQDVLKSAIKRFDSVLSWYATLDNDDGEQGSENVEKIDDDWDWDRWKKHFDQVDDQDRLLSVLKSQLNRAIKREDYEDAARLKVAIAATATNDAVGKVMSTFYRALLEERYKDAVYLRDKAGAGLVGWWSGISEDVKDPFGLIVQITAEHGRYVARSYNPRQLSTSAAGAPLFEIFLTLDGKGNYKKQAVYLKWKEIFPDVPTMPSRTLTPGRFLTSPGRKEDTGNLAVESSEDEESDNSDDDSDLLEESSGFQSFLRDMIPGVKVKVMKVTAPGRVDKDFISKVIEQIADEEDEENDLDIEDIDVEDDTKAEIDEKNADIELESVTDEIIDNNGGREIAVKFVIGDIVDRLSGNQPLKESLRSPANLESVENSSFYLRLEKDLNVKESKGVEGTTLVDGKGSRQSRRRIENIMGDLAKSIEKEKKISVKMLKDVGELLSLTLSQAQNRQQLSGLTKFRRIDVTPSLDPLDGLYIGAHGLYTSEVIHLKRKFGQWKGGKESKKPTDIEFYEYVEAVKLTGDPYVPAGKVAFRAKIGRRYELPHKGLIPEEFGVIARYKGQGRLADPGFRNPRWVDGELVILDGKYVKGGPVVGFVYWAPEYHFVMFFNRLRLQA |
| 4237 | sp|P80872|G16O\_BACSU | MALTKEQTQHLYHKLLDMQKELSGEKKETESMTEEVGELSNGVDNHMADHGTLVTDRMTDQTVKEIDRELLEEVNRALQKMKDGTYGVCEKTGQEIPYERLEAVPYARMTVEAQADVEDDLETDAPSYEREFHEQVKDLSNKETIDQKSSQTYEILDREQDSK |
| 4238 | sp|O59858|GPX1\_SCHPO | MSHFYDLAPKDKDGNPFPFSNLKGKVVLVVNTASKCGFTPQYKGLEALYQKYKDRGFIILGFPCNQFGNQEPGSDEEIAQFCQKNYGVTFPVLAKINVNGDNVDPVYQFLKSQKKQLGLERIKWNFEKFLVNRQGQVIERYSSISKPEHLENDIESVL |
| 4239 | sp|Q2SYZ6|GRPE\_BURTA | MENTQENPTDQTTEETGREAQAAENAAPAAEAALAEAQAKIAELQESFLRAKAETENVRRRAQDDVAKAHKFAIESFAENLLPVLDSLEAAVGDTSGDLAKVREGVELTLRQLTSALEKGRVAALNPVGEKFDPHLHQAISMVPADQEPNTVVAVLQKGYTIADRVLRPALVTVAQPK |
| 4240 | sp|B2S0M1|GRPE\_BORHD | MEEKKRCEESEKIKEQENETLPNEDSPSMGKKVAELENEISNLKDLYLRKQAEFENFRKRLEKDKENFIKFANENIMKDIINFLDNLERAIDSSKQSKDFDTLLSGISMIESEVLSSFDKKYNLKKFGKPGEDFDPSQHEAISIEEKEGVKTPEIVEVYQKGYCYNNRVLRTAKVKVAQSKN |
| 4241 | sp|Q8YEV0|GRPE\_BRUME | MADEKNKPENPDLDQRDINNPRDREALKQAADDFLKARRAEAAADEAEGEVDETANRIAVLEADNTELKDQMLRVAAEMENLRKRTQRDVQDARAYAITNFARDMLSVSDNLRRALDAIPADALEADSNLKSLSEGVEMTERAMLLALERHGVKKLEPEGQKFDPNFHQAMFEVPNPDLPNNTVVQVVQAGYAIGDRVLRPAMVGVSKGGPKVSAENGASTSEDNA |
| 4242 | sp|Q473L4|GRPE\_CUPPJ | MEEQKQTPSTPTPDTAAEAAVNAATAAPETAGADDVAAQLAALEAKAREHYDMYVRAVAEGENIRRRAQEDVSKAHKFAIENFADNLLPVMDSLQAALADGSGDIAKLREGVELTARQLSAAFERGKIVELNPVGEKFDPHRHQAISMVPSEQESNTVVTVLQRGYTIADRVLRPALVTVSAPK |
| 4243 | sp|Q7CH40|GRPE\_YERPE | MSSKEQKTPNEQVSEEMENTAEQQVEATQETGECVDPRVAELEVQLSDALQRERESLLRAKAEVENIRRRTELDVEKAHKFALERFSSELLPVIDNLERALDTADKTNTELISMIEGVELTLKSLLDAVGKFGIEVVGETHVPFNPEVHQAMTMLESADHEPNHVMMVMQKGYTLNGRLLRPAMVAVSKAKS |
| 4244 | sp|A9R2E4|GRPE\_YERPG | MSSKEQKTPNEQVSEEMENTAEQQVEATQETGECVDPRVAELEVQLSDALQRERESLLRAKAEVENIRRRTELDVEKAHKFALERFSSELLPVIDNLERALDTADKTNTELTSMIEGVELTLKSLLDAVGKFGIEVVGETHVPFNPEVHQAMTMLESADHEPNHVMMVMQKGYTLNGRLLRPAMVAVSKAKS |
| 4245 | sp|P42760|GSTF6\_ARATH | MAGIKVFGHPASTATRRVLIALHEKNVDFEFVHVELKDGEHKKEPFILRNPFGKVPAFEDGDFKIFESRAITQYIAHEFSDKGNNLLSTGKDMAIIAMGIEIESHEFDPVGSKLVWEQVLKPLYGMTTDKTVVEEEEAKLAKVLDVYEHRLGESKYLASDHFTLVDLHTIPVIQYLLGTPTKKLFDERPHVSAWVADITSRPSAQKVL |
| 4246 | sp|Q04Y46|GRPE\_LEPBL | MAETSNSENKTSEEAKASEKNSRSITLEETKLENMNSEESTQTTESTQAQAAEAADSELSLQSELDAAKKEVESLKDSWARERAEFQNFKRRSAQEFVSIRKEAVKSLVSGFLNPIDNLERVGATQSPSEELKPFVEGVAMILKEFYAVLEKSNVIRFDPKGESFDPMSMEALSSEEGDQYSEETVIDVYQAGYYYKENEDKFTLRPARVRIGKPKS |
| 4247 | sp|A5IDK9|GRPE\_LEGPC | MSKQNKKDWKKFKDEHKEEYKVENEILEEETDEESQHQEPALGHPSYTALEEQLTLAEQKAHENWEKSVRALAELENVRRRMEREVANAHKYGVEKLISALLPVVDSLEQALQLADKNSDPSMHEGLELTMKLFLDALQKFDVEQIDPLGQTFDPQQHEAMSMQPAPGAPPNSVITVFQKGYKLSDRVIRPARVIVSTK |
| 4248 | sp|Q2NS02|GRPE\_SODGM | MSSKEQNTPDEQVSQESEMEQGQQAEAAPETVDVVDPRDERIAELEAALSQAQQREHDSVLRAKAEMENVRRRSEQDVEKAHKFALERFAGELLPVIDNLERALDMSDKANAELASTIEGIELTLKSLLDAVRKFGLDVVGDTHVPFNPEVHQAMTMLESDEHEPNQVMMVMQKGYTLNGRLIRPAMVAVSKAKS |
| 4249 | sp|P80870|GS13\_BACSU | MAAKFEVGSVYTGKVTGLQAYGAFVALDEETQGLVHISEVTHGFVKDINEHLSVGDEVQVKVLAVDEEKGKISLSIRATQAAPEKKESKPRKPKAAQVSEEASTPQGFNTLKDKLEEWIEMSNRKDLIKK |
| 4250 | sp|Q02F74|HFQ\_PSEAB | MSKGHSLQDPYLNTLRKERVPVSIYLVNGIKLQGQIESFDQFVILLKNTVSQMVYKHAISTVVPSRPVRLPSGDQPAEPGNA |
| 4251 | sp|B6JDZ0|HFQ\_OLICO | MAADRAQNLQDTFLNHVRKSKTPLTIFLVNGVKLQGIVTWFDNFCLLLRRDGHSQLVYKHAISTIMPGAPISLFEGGEDTPA |
| 4252 | sp|Q1C100|HFQ\_YERPA | MAKGQSLQDPFLNALRRERVPVSIYLVNGIKLQGQVESFDQFVILLKNTVSQMVYKHAISTVVPSRPVSHHSNTPSGSTNNYHGSNPSAPQQPQQDSDDAE |
| 4253 | sp|A9W6K8|HFQ\_METEP | MAGERAQNLQDTFLNHVRKNKIPLTIFLVNGVKLQGVVTWFDNFCVLLRRDGHSQLVYKHAISTIMPGHPVQLFEPDETAPEKA |
| 4254 | sp|Q8NXY2|HCHA\_STAAW | MSQDVNELSKQPTPDKAEDNAFFPSPYSLSQYTAPKTDFDGVEHKGAYKDGKWKVLMIAAEERYVLLENGKMFSTGNHPVEMLLPLHHLMEAGFDVDVATLSGYPVKLELWAMPTEDEAVISTYNKLKEKLKQPKKLADVIKNELGPDSDYLSVFIPGGHAAVVGISESEDVQQTLDWALDNDRFIVTLCHGPAALLSAGLNREKSTLEGYSVCVFPDSLDEGANIEIGYLPGRLKWLVADLLTKQGLKVVNDDMTGRTLKDRKLLTGDSPLASNELGKLAVNEMLNAIQNK |
| 4255 | sp|Q4KJ73|HFQ\_PSEF5 | MSKGHSLQDPYLNTLRKEKVGVSIYLVNGIKLQGTIESFDQFVILLKNTVSQMVYKHAISTVVPVRPIRLPSASESEQGDAEPGNA |
| 4256 | sp|Q5HIC4|HCHA\_STAAC | MSQDVNELSKQPTPDKAEDNAFFPSPYSLSQYTAPKTDFDGVEHKGAYKDGKWKVLMIAAEERYVLLENGKMFSTGNHPVEMLLPLHHLMEAGFDVDVATLSGYPVKLELWAMPTEDEAVISTYNKLKEKLKQPKKLADVIKNELGPDSDYLSVFIPGGHAAVVGISESEDVQQTLDWALDNDRFIVTLCHGPAALLSAGLNREKSPLEGYSVCVFPDSLDEGANIEIGYLPGRLKWLVADLLTKQGLKVVNDDMTGRTLKDRKLLTGDSPLASNELGKLAVNEMLNAIQNK |
| 4257 | sp|A9QYN1|HFQ\_YERPG | MAKGQSLQDPFLNALRRERVPVSIYLVNGIKLQGQVESFDQFVILLKNTVSQMVYKHAISTVVPSRPVSHHSNTPSGSTNNYHGSNPSAPQQPQQDSDDAE |
| 4258 | sp|A6U8G6|HFQ\_SINMW | MAERSQNLQDLFLNTVRKQKISLTIFLINGVKLTGVVTSFDNFCVLLRRDGHSQLVYKHAISTIMPGQPLQMFENEEAAS |
| 4259 | sp|Q3SSN1|HFQ\_NITWN | MAIDRAQNLQDTFLNHVRKTKTPLTIFLVNGVKLQGIVTWFDNFCLLLRRDGHSQLVYKHAISTIMPGAPIQLFEGGEDAPL |
| 4260 | sp|P64345|HFQ\_NEIMB | MTAKGQMLQDPFLNALRKEHVPVSIYLVNGIKLQGQVESFDQYVVLLRNTSVTQMVYKHAISTIVPARSVNLQHENRPQAAPTSTLVQVETVQQPAE |
| 4261 | sp|P30693|HSP11\_HELAN | MSIIPSFFTSKRSNIFDPFSLDTWDPFQGIISTEPARETAAIVNARIDWKETPEAHVLKADLPGMKKEEVKVEVEDGRVLQISGERCREQEEKDDTWHRVERSSGKFIRRFRLPENAKMDEVKAMMENGVLTVVVPKEEEEKKPMVKAIDISG |
| 4262 | sp|A5IA60|HTPX\_LEGPC | MINNLKTFILLASLTALLVVIGGLLGGSTGMLVALLFAGIMNFSAYWYSDTLVLKMYNAEPLSNNHFVYHIVSELAHRAGTSVPKVYLINNSTPNAFATGRNPENASIAVTTGLLDRLTQEEITGVLAHELAHVIHRDTLINVVSATIAGAISGIANMFMWLSMFGHNSNNEEGVHPVVGMIMMIVAPLAAGLIQMAISRSREFEADAGGARISGNPQWLASALLKLDQANHEQYFDEAETHPATAHLFIINPLNGEKLANLFSTHPSTAERVARLRAMY |
| 4263 | sp|P06581|HSP16\_CAEEL | MLMLRSPYSDSNALDHFLDELTGSVQFPYWRNADHNSFNFSDNIGEIVNDESKFSVQLDVSHFKPENLKIKLDGRELKIEGIQETKSEHGYLKRSFSKMILLPEDADLPSVKSAISNEGKLQIEAPKKTNSSRSIPINFVAKH |
| 4264 | sp|Q1IGK2|HSLO\_PSEE4 | MSDLPDTDFTQRFLFDDRDVRGEMVALERSYAEVLAKHAYPRPVQHLLGELMAAAALLVGTLKFDGLLVLQAQSQGPVPLLAIEYTSEHDIRGLARFEAEQIKDDARLADLMPGGHLVLTIIPVNGQRYQGTVELDGQDLSECFTNYFVMSQQVHTSISLTADGVRARGLLVQQLPAEIHKDIEEREESWAHVKALANTVKAEELLGLDNETVLHRLYHEDAVRLFDIQPLRFRCSCSRERSSNALVSLGEQDAKALVEECGGTVEIDCQFCNERYLFDASDVAQLFAGGGTDVPSETQH |
| 4265 | sp|A1ABZ5|HTPX\_ECOK1 | MMRIALFLLTNLAVMVVFGLVLSLTGIQSSSVQGLMIMALLFGFGGSFVSLLMSKWMALRSVGGEVIEQPRNERERWLVNTVATQARQAGIAMPQVAIYHAPDINAFATGARRDASLVAVSTGLLQNMSPDEAEAVIAHEISHIANGDMVTMTLIQGVVNTFVIFISRILAQLAAGFMGGNRDEGEESNGNPLIYFAVATVLELVFGILASIITMWFSRHREFHADAGSAKLVGREKMIAALQRLKTSYEPQEATSMMAFCINGKSKSLSELFMTHPPLDKRIEALRTGEYLK |
| 4266 | sp|Q04432|HSP31\_YEAST | MAPKKVLLALTSYNDVFYSDGAKTGVFVVEALHPFNTFRKEGFEVDFVSETGKFGWDEHSLAKDFLNGQDETDFKNKDSDFNKTLAKIKTPKEVNADDYQIFFASAGHGTLFDYPKAKDLQDIASEIYANGGVVAAVCHGPAIFDGLTDKKTGRPLIEGKSITGFTDVGETILGVDSILKAKNLATVEDVAKKYGAKYLAPVGPWDDYSITDGRLVTGVNPASAHSTAVRSIDALKN |
| 4267 | sp|Q4QP81|HTPG\_HAEI8 | MSQNQETRGFQSEVKQLLQLMIHSLYSNKEIFLRELISNASDAADKLRFKALSNPALYEGDGDLRVRVSFDADKGTITISDNGIGMTREQVIDHLGTIAKSGTKEFLTALGQDQAKNSQLIGQFGVGFYSAFIVADKVTVKTRAAGEEADKAVLWESAGEGEYSVADIEKKSRGTDVILHLREDEKEFLNEWRLREIIGKYSDHIGLPVEMLTKEYDDEGKECGEKWEKINKSDALWTRSKNDVSDEEYKAFYKHLSHDFVDPVTWAHNKVEGNQAYTSLLYVPAKAPWDLFNREHKHGLKLYVQRVFIMDDAEQFMPNYLRFMRGLIDSNDLPLNVSREILQDNKITAALRKALTKRSLQMLEKLAKDDAEKYLKFWKEFGLVLKEGPAEDFANKETIAKLLRFASTHNDGSEQTVSLEDYILRMKEGQKAIYYITADSYVAAKNSPHLELFNKKGIEVLLLSDRIDEWMLSYLTEFDGKQLQSITKADLDLGDLADKESETQKQQDKAFGSFIERVKNLLGERVKTVRLTHNLTDTPAVVSTDNDQMTTQMAKLFAAAGQPVPEVKYTFELNPEHYLVKKVADIADETEFADWVELLLEQAMLAERGSLENPAAFIKRINKLLG |
| 4268 | sp|A0Q4L0|HTPG\_FRATN | MSEKKYTFETEVDKLLHLVIHSLYSNREIFLRELVSNSSDAIEKLRYESISNAALNEDDTDYAIRIDFDKDAKTITVSDNGIGMTEEEVIENLGTIAKSGTKKFLESLTGDKSKDNELIGQFGVGFYSSFIVADKVTVRTRKAGQDKSQATKWVSDAQNGFTVETITKEKRGTEVILHIKKEHLDLLEYHVLKGLVNKYSDCINTPIQMKKVEYDKDGKQTVKDEYETVNNTKAIWLRSKDEVTDEEYQEFYKYISHDFADALMWIHNKVEGNLEYNSLLYIPQNKPFDFWNRDKDYGLSLYVRRVFIMENKELLPPYLRFVKGVIDSADLPLNVSREILQHNKVIDKIKKAITTKILSELKKLASKDKEKYQKFWDSFGQVLKEGVSDDYSNKEKIAGLLRFATTQSGDSKQTVSLADYISRMKEGQDTIYYITSDSYKAAANNPQLEAFKKKGIEVILMTDRIDEWMMSTLTEFDGKHMKSIIKGDIDLDKFETPENKEKFEKETKDFEKVLKEIKEVLKDKVEDVRLSKRLTDSPSCVVVNDYGMSLHMQKMMEEAGQGFMPGMGMKPILELNAEHNLVQKLKNEADTEIFADLSELLLLQAMFVEGAKIEDPMAFVKLVNKYIR |
| 4269 | sp|B1XJZ5|HSLO\_SYNP2 | MADQLIRGTAADNGIRVVGVISTNLTEEARQRHKLSYVATAALGRTMASALLISSSMKKQEARLNLRIKGDGPLGGLLVDAGPDGTVRGYVQNPGVELPPNAKGKLDVGGAVGKGFLYAVKDFGRGYPYSSTVELVSGEIGDDVTHYLATSEQTPSALLVGVFVGAEGVTAAGGILLQILPKAARDESLVAKLESRLGQLSGFTPLLQQGKSLHDIFQDLLGDEDLNIFPETQMVRFDCGCTFERMMGALKMLGQDELLDMIEKDGGAEATCNFCNEVYHADVDHLSRLVEELKADAH |
| 4270 | sp|Q60AK3|HTPG\_METCA | MTEAENRVTLGFEAEVKQLLHLMIHSLYGNKEIFLRELISNASDAADKLRFSALGNDALYEGDSRLRVRIEFDKAARTLSISDNGIGMTREEVQHNIGTIARSGTRHFFESLTGDEAKDSQLIGQFGVGFYSAFIVADKVVLETRKAGVPAEEGARWESSGEGSYTLETLTRPERGTRVTLHLREGEDEFLDGWKLRAIIRKFSDHISLPIEMKRETGEPKEGEEAPAEVWETVNSASALWAKNRDEITDEAYDEFYKHVSHDFQEPLARVHSRVEGTNEYTLLLYIPKHAPFDLWDRDSKRGVKLYVRKVFIMEDSDKLMPRYLRFVRGVIDSDSLPLNVSREILQENKQLEKIRGGAVKKVLGLLEDLANNEPEKYQAFWKEFGQVLKEGLIEDFANKDRLAKLLRFSSTHTDSEEQTVTLDEYVSRMKEGQDKIYFVSAESFGAARNSPHLEIFRKKDIEVLLLSDRIDEWLVSYLTEYEGKPLQSVARGDLDLGKLEGEEEKAEAAAEKEAFAPLTERLKKALEAKVNDVRLSHRLTDSPACLISESYGMSRTMERIMKSAGQNIPGSKPILEINPHHGLIARLNTEADQTRFQDLASLLLDQAVLAEGGQLDDPAEFVHKLNGLLQSLL |
| 4271 | sp|P24632|HSP22\_MAIZE | MDAVMFGLETPLMAALQHLLDVPDGDAGAGGDNKTGSGGSATRTYVRDARAMAATPADVKELPGAYAFVVDMPGLGTGDIRVQVEDERVLVVSGERRREEREDDAKYLRMERRMGKFMRKFVLPDNADVDKVAAVCRDGVLTVTVEKLPPPEPKKPKTIEVKVA |
| 4272 | sp|C3K733|HTPX\_PSEFS | MMRILLFLATNLAVVLIASITLSLFGFNGFMAANGVDLNLNQLLVFCAVFGFAGSLFSLFISKWMAKMSTSTQVITQPRTRHEQWLLQTVEQLSREAGIKMPEVGIFPAYEANAFATGWNKNDALVAVSQGMLERFSYDEVKAVLAHEIGHVANGDMVTLALVQGVVNTFVMFFARIIGNFVDKVIFKNEGGRGIAYFVATIFAEVVLGFLASAITMWFSRKREFRADEAGARLAGTGAMIAALQHLRSEQGLPVHMPDSLTAFGINGGIKQGMARLFMSHPPLEERIDALRRRG |
| 4273 | sp|A4W7F7|HTPG\_ENT38 | MKGQETRGFQSEVKQLLHLMIHSLYSNKEIFLRELISNASDAADKLRFRALSNPDLYEGDGELRVRVSFDKDNRTLTIADNGIGMNRDEVIDHLGTIAKSGTKSFLESMGSDQAKDSQLIGQFGVGFYSAFIVADKVTVRTRAAGDSAENGVFWESHGEGEYTVDDITKADRGTEITLHLREGEDDFLNDWRVRSIISKYSDHIALPVEIEKREEQDGETVVSWEKINKAQALWTRNKSEIKDDEYNEFYKHIAHDFTDPLTWSHNRVEGKQEYTSLLYIPAQAPWDMWNRDHKHGLKLYVQRVFIMDDAEQFMPNYLRFTRGLIDSNDLPLNVSREILQDSTVTRNLRNALTKRTLQMLEKLAKDDAEKYQTFWKQFGLVLKEGPAEDSGNVESIAKLLRFASTHTDSSEQTVSLEDYVSRMKEGQEKIYYITADSYAAAKSSPHLELLRKKGIEVLLLSDRIDEWMMNYLTEFDGKAFQSVAKADESIDKLADEVDETAKEAEKALEPFVERVKTLLGDRVKEVRFTHRLTDTPAIVTTDADEMGTQMAKLFAAAGQAMPEVKYIFELNPDHPLVKRAADTQDEARFSEWVELLLDQSLLAERGTLEDPNQFIKRVNALLLG |
| 4274 | sp|P0A6Z3|HTPG\_ECOLI | MKGQETRGFQSEVKQLLHLMIHSLYSNKEIFLRELISNASDAADKLRFRALSNPDLYEGDGELRVRVSFDKDKRTLTISDNGVGMTRDEVIDHLGTIAKSGTKSFLESLGSDQAKDSQLIGQFGVGFYSAFIVADKVTVRTRAAGEKPENGVFWESAGEGEYTVADITKEDRGTEITLHLREGEDEFLDDWRVRSIISKYSDHIALPVEIEKREEKDGETVISWEKINKAQALWTRNKSEITDEEYKEFYKHIAHDFNDPLTWSHNRVEGKQEYTSLLYIPSQAPWDMWNRDHKHGLKLYVQRVFIMDDAEQFMPNYLRFVRGLIDSSDLPLNVSREILQDSTVTRNLRNALTKRVLQMLEKLAKDDAEKYQTFWQQFGLVLKEGPAEDFANQEAIAKLLRFASTHTDSSAQTVSLEDYVSRMKEGQEKIYYITADSYAAAKSSPHLELLRKKGIEVLLLSDRIDEWMMNYLTEFDGKPFQSVSKVDESLEKLADEVDESAKEAEKALTPFIDRVKALLGERVKDVRLTHRLTDTPAIVSTDADEMSTQMAKLFAAAGQKVPEVKYIFELNPDHVLVKRAADTEDEAKFSEWVELLLDQALLAERGTLEDPNLFIRRMNQLLVS |
| 4275 | sp|Q6AUW3|HS223\_ORYSJ | MPPRRGIEVRQAVGDGAAPRWRMSLLENTFSSFLQSIGGGVAADGAAARAVFGEGSLFSPFLFGKFFDPADAFPLWEFEPEVLLAALRRGARTTVDWAETDSEYYLRADIPGGRKCDVEVSGDDAMRVVDVSGLWRAAPPPPPPDGRDWRAGRWWEHGFVRRVELPEDADWRKVEAFFDDGEGLLEIKVPKSGDAHQAAAATA |
| 4276 | sp|Q5RAB0|HSPB8\_PONAB | MADGQMPFSCHYPSRLRRDPFRDSPLSSRLLDDGFGMDPFPDDLTASWPDWALPRLSSAWPGTLRSGMVPRGPTATARFGVPAEGRTPPPFPGEPWKVCVNVHSFKPEELMVKTKDGYVEVSGKHEEKQQEGGIVSKNFTKKIQLPAEVDPVTVFASLSPEGLLIIEAPQVPPYSTFGESSFNNELPQDSQEVTCT |
| 4277 | sp|A1WXE4|HTPG\_HALHL | MSADTQSETLEFQAEVQQLLSLMIHSVYSNREVFLRELISNASDAIDKLRFEALQQESLYEDDPELKIRVEADPEARTVTVIDNGIGMSREDVIENLGTIAHSGTRRFLEQLTGDQHKDAQLIGQFGVGFYSAFVVADRVEVYTRKAGAAAAEGVRWSSDGQGAYTVDTVERAERGTAVVLHLPEAQQEFCDDMRLRQIIRKYSDHISVPIEMPVRNADQGDDADSEAEAPQWEIVNRASALWMRPKSEISEEDYQELYKHVAHDFDDPLTWIHNHVEGRQSYVSLLYIPKRPPFDLYEQKPAHGVKLYVRRVFITEDTEHLLPRYLRFVRGVIDSDDLPLNISREMLQHNPMISSLRSASVKRILDRLECMAKNEPEDYATFWQAFGRVFKEGIAEDPGNRERIARLLRFSSTHEEKETPDVSLDDYVARMKDGQEKIYYVTAESFNAARNSPHLEIFRRHGIEVLLLPDPVDEWLVAHLHEYDGKQLASVAKGELDLEALGEEDDKQARQEKEQAYEDLCKRLGETLGERVSEVRVSHRLTDSPACLVVGEYDFGMGMQRLLQAAGHQLPAGQPALEVNPDHSVIERLATESGQRFEDWALTLYEQSLLAEGGQLEDPAAYVRRVNNLLAG |
| 4278 | sp|Q3B3E6|HTPG\_PELLD | MSNKQNTAVQEFEYKAEMKQLLDLIVHSLYTHPEIFLRELVSNASDALSKARFSALTDDTMAKVSGEAAIRISLDAKTAAFAIEDTGIGMTEEELIANLGTVARSGTLGFMQALRQEKKELDGNLIGQFGVGFYSVFMVTDDVTVETRSARAGSEGLRWRSSGQGTYTIEKIDKKEPGTRISFTLKDEHKEFAEEYRVEHIIKKYSNFVDFPIYLETKQLNSITALWQRPKSELKQEEVNEFYKFISNDFNEPLDYLHVSVEGAVSFKAILFLPKEAPMELLYRQGELENKGPQLYVKKVMIQHECRDLLPEYLRFIAGVVDTEDLSLNVSREIVQSSPVMSKIRQILTGKILGWFEELATAQPEKFRTFYKAFGPIVKIGLNTDFTNRDKLIELLRFESTKTGEGEYVTLKEYAARMAPDQKEIYYHSGAGRAQLLANPNLEYFQDKGIEVLLLSDPVDVFVIPSIHEYDKKQLKSIEKADIDFSKATKDKTEPIAENLLVPLLKIFRETLGEGIEDVVESHRLVSSPVTLVSGKDAMDSQMERMMKMMQQEMPAGRKILEVNPSHPIIRNLSGMMMANDNNPLIRTAIHQLYEGALLLEGGLDSTTGFVSRMNELIEAATLSR |
| 4279 | sp|Q12329|HSP42\_YEAST | MSFYQPSLSLYDVLNALSNQTGQRGQQGYPRQPQRPQRYHPHYGQVHVGGHHPRHHPLYSRYNGVPNTYYYQFPGQAYYYSPEYGYDDEDGEEEDQDEDMVGDSGTTRQEDGGEDSNSRRYPSYYHCNTARNNRTNQQANSLNDLLTALIGVPPYEGTEPEIEANTEQEGEKGEEKDKKDKSEAPKEEAGETNKEKPLNQLEESSRPPLAKKSSSFAHLQAPSPIPDPLQVSKPETRMDLPFSPEVNVYDTEDTYVVVLALPGANSRAFHIDYHPSSHEMLIKGKIEDRVGIDEKFLKITELKYGAFERTVKFPVLPRIKDEEIKATYNNGLLQIKVPKIVNDTEKPKPKKRIAIEEIPDEELEFEENPNPTVEN |
| 4280 | sp|A6VXW3|HTPG\_MARMS | MATDTQKETLGFQTEVKQLLHLMIHSLYSNKEIFLRELISNASDAVDKLRFESVANADLLAEDPNLRVRIEFDKDTNTVVIDDNGVGMSREEAITNLGTIAKSGTSAFLEQLSGDQKKDSQLIGQFGVGFYSAFIVADKVTVETRRAGVAADQAVRWVSDGSGEFTIENIEKDSRGTRIILHLKAGEKEFADNFRLRHLVTKYSDHISIPVEMEKPVYPEMDEEGNPKPVDENKAPEYEAVNSAKALWTRPRNEVTDEEYQEFYKHISHDYQEPLKWSHNKVEGKLEYSSLLYIPSKAPYDLWNRDMQRGLKLYVQRVFIMDEAEAFLPPYMRFVKGVVDSNDLSLNVSREILQNDHAVDSMRSALTKRVLDMLGKMAKNEPEDYQKFWDEFGNVIKEGPADDMGNKDKIAGLLRFSSTHTDAAAQTVSLADYIERMQEGQDKIYYIYAESHNTAKNSPHLEILRKKGFEVLLLSDRIDEWMMSSLQEFEGKSFQDVTKGKLDLADQENEEEKKEKEEKAEKMKPLLDRMKAVLNEKVAGVNSTDRLTNSPACLVVGEYDMGLQMRRLLEQAGQKLPESKPTLEVNPDHPIVAKMDSETDEERFADMAWLLFEQATLSEGGQLEDPATFVSRMNKLIVQLSK |
| 4281 | sp|P02826|HSP7A\_DROSI | MPKLPAVGIDLGTTYSCVGVFQHGKVEIIANDQGNRTTPSYVAFTESERLIGDAAKNQVAMNPNNTIFDAKRLIGRRFDDATVQSDMKHWPFEAFAENGKPRIRGTFDVSVLTIEDGFEVKATAGDTHLGREDFDNRLVNHLVQEFQRKHGKDLGQNKRALRRLRTACERAKRTLSSSTQASIEIDSLFEGVDFYTSVTRARFEELNGDLFRGT |
| 4282 | sp|Q2TBQ6|HSPB9\_BOVIN | MQRVGSSLPSGSQSASQCPSVAFTERNQVATLPVQRLTEDAAAVRDNVHTEDGFQMKLYAHGFTPEELLVQVNSGCLVVTGQRQLEGCNPDGTGFRVAQKVHQQMSLPPDLDPAAMTCCLTPSGQLCVRGQCRALPPSEAQTGPASRFRSRGSKKLA |
| 4283 | sp|O44001|HSP90\_EIMTE | MENKETFAFNADIQQLMSLIINTFYSNKEIFLRELISNASDALDKIRYEAITEPEKLKTKPELFIRLIPDKANNTLTIENSGIGMTKADLVNNLGTIARSGTKAFMEALQAGGDISMIGQFGVGFYSAYLVADSVTVVSKHNDDEQYVWESAAGGSFTVQKDDKYEPLGRGTRIILHLKEDQGEYLEERRLKDLVKKHSEFISFPIELAVEKTHEREVTESEDEEEKKADEKAEEKEGEEKKEGEEKKEGEEEKKEKTGKTKKVQEVTREWEQLNKQKPLWMRKPEEVTEEEYASFYKSLSNDWEEHLAVKHFSVEGQLEFKALLFVPKRAPFDLFETRKKRNNIKLYVRRVFIMDDCEDIIPEWLNFVKGVVDSEDLPLNISRESLQQNKILKVIRKNLVKKCLEMFAEIEEKKENYAKFYEQFSKNLKLGIHEDSANRAKIAELLRFHSSKSGEDMVSFKEYVDRMKEGQKDIYYITGESRQTVANSPFLEKLTKKGYEVLYMTDPIDEYAVQQLKEFDNHKLRCCTKEGLEIDESEEEKKKFEELKAEFEPLLKLIKEVLHDKVDKVVLSNRITDSPCVLVTTEFGWSANMERIMKAQALRDNSMTSYMVSKKTMEVNGHHSIMIEIKNKAAVDKSDKTVKDLIWLLYDTALLTSGFSLEEPTQFAARIHRMIKLGLSIDDDEEAKDDDLPPLEEVEGAADEASKMEEVD |
| 4284 | sp|P42931|HSP30\_ONCTS | MLCSRGFQSSLSPLMDFYWPVRSLWPEVRPLLSQRDLLQRNLLEVKSSLELMAKLQQQIFEELDNVPSSLTIQPVSYKHDKDGEGFALTLDTKDFSPEELSVKQVGRKLRVSGKTEKKLDDGEGSYSYRCQEFRQEFDLPEKVNPETVTCSLAHDGKLHIQAPKNTLSGEEEVAERVVPINCSLDVKTPQFLSKTEGSITDTQKKQENTISKED |
| 4285 | sp|Q68X97|HSPC1\_RICTY | MLKYIPAIFAIILSSNIAIASKNYDYINATPLRQVADLIDSHITNIDHLFNNRLMFYESSSIKSKFITKDKQYVIIMEVPGFDKNQIKVKLNGKKLFIAGNIEEKNKANDSDNYMNKNFNYVISLYEDVDQTNISARLKNGILTIILPRIEVKEQDAKEITIN |
| 4286 | sp|P41825|HSP71\_ANOAL | MPSAIGIDLGTTYSCVGVFQHGKVEIIANDQGNRTTPSYVAFSDTERLIGDAAKNQVAMNPTNTVFDAKRLIGRKFDDPKIQADMKHWPFTVVNDCGKPKIRVEFKGERKTFAPEEISSMVLTKMKETAEAYLGQSVKNAVITVPAYFNDSQRQATKDAGAIAGLNVMRIINEPTAAALAYGLDKNLKGERNVLIFDLGGGTFDVSILTIDEGSLFEVRATAGDTHLGGEDFDNRMVAHFVEEFKRKFKKDLSKNARALRRLRTACERAKRTLSSSTEATIEIDALMDGIDYYTKISRARFEELCSDLFRSTLQPVEKALSDAKMDKSSIHDIVLVGGSTRIPKVQSLLQNFFAGKSLNLSINPDEAVAYGAAVQAAILSGDKDDKIQDVLLVDVAPLSLGIETAGGVMTKLIERNSRIPCKQTKIFSTYADNQPGVSIQVFEGERAMTKDNNLLGQFDLSGIPPAPRGVPQIEVTFDLDANGILNVAAKDKSSGKEKNITIKNDKGRLSQADIDRMVSEAEKYREEDEKQREAIAARNQLEAYCFNLKQSLDGEGSSKLSEADRRTVQDRCDETLRWIDGNTMAEKEEYEHQMQELSRVCSPIMTKLHQQAAGGPQPTSCGQQAGGFGGRTGPTVEEVD |
| 4287 | sp|Q4KFX8|HTPG\_PSEF5 | MSVETQKETLGFQTEVKQLLHLMIHSLYSNKEIFLRELISNASDAVDKLRFEALSKPELLEGGAELKIRVSFDKDAKTVTLEDNGIGMSREDVITHLGTIAKSGTADFMKNLTGDQKKDSHLIGQFGVGFYSAFIVADQVEVFSRRAGLPASEGVHWSSKGEGEFEVATIDKAERGTRIVLHLKSGEDEFADGWRLRNIIKKYSDHIALPIELPKEAAAAEGEEKPALEWETVNRASALWTRPRTEIKDEEYQEFYKHIAHDFENPLSWSHNKVEGKLEYSSLLYVPARAPFDLYQREAPKGLKLYVQRVFVMDQAESFLPLYLRFIKGVVDSNDLSLNVSREILQKDPIIDSMKSALTKRVLDMLEKLAKNEPEQYKGFWKNFGQVMKEGPAEDFANKEKIAGLLRFASTQGDDGEQNVSLADYLARAKEGQDKIYFLTGESYAQVKNSPHLEVFRKKGIEVLLLTDRIDEWLMSYLNEFDGKSFVDVARGDLDLGNLDSEEDKKAAEEVAKTKEGLVERIKTALGESVSEVRVSHRLTDSPAILAIGEQDLGLQMRQILEASGQKVPDSKPIFEFNPTHPLIEKLDGEQSEERFGDLSHILFDQAALAAGDSLKDPAAYVRRLNKLLVELSV |
| 4288 | sp|B1IVE8|HSLU\_ECOLC | MSEMTPREIVSELDKHIIGQDNAKRSVAIALRNRWRRMQLNEELRHEVTPKNILMIGPTGVGKTEIARRLAKLANAPFIKVEATKFTEVGYVGKEVDSIIRDLTDAAVKMVRVQAIEKNRYRAEELAEERILDVLIPPAKNNWGQTEQQQEPSAARQAFRKKLREGQLDDKEIEIDLAAAPMGVEIMAPPGMEEMTSQLQSMFQNLGGQKQKARKLKIKDAMKLLIEEEAAKLVNPEELKQDAIDAVEQHGIVFIDEIDKICKRGESSGPDVSREGVQRDLLPLVEGCTVSTKHGMVKTDHILFIASGAFQIAKPSDLIPELQGRLPIRVELQALTTSDFERILTEPNASITVQYKALMATEGVNIEFTDSGIKRIAEAAWQVNESTENIGARRLHTVLERLMEEISYDASDLSGQNITIDADYVSKHLDALVADEDLSRFIL |
| 4289 | sp|P0DMV8|HS71A\_HUMAN | MAKAAAIGIDLGTTYSCVGVFQHGKVEIIANDQGNRTTPSYVAFTDTERLIGDAAKNQVALNPQNTVFDAKRLIGRKFGDPVVQSDMKHWPFQVINDGDKPKVQVSYKGETKAFYPEEISSMVLTKMKEIAEAYLGYPVTNAVITVPAYFNDSQRQATKDAGVIAGLNVLRIINEPTAAAIAYGLDRTGKGERNVLIFDLGGGTFDVSILTIDDGIFEVKATAGDTHLGGEDFDNRLVNHFVEEFKRKHKKDISQNKRAVRRLRTACERAKRTLSSSTQASLEIDSLFEGIDFYTSITRARFEELCSDLFRSTLEPVEKALRDAKLDKAQIHDLVLVGGSTRIPKVQKLLQDFFNGRDLNKSINPDEAVAYGAAVQAAILMGDKSENVQDLLLLDVAPLSLGLETAGGVMTALIKRNSTIPTKQTQIFTTYSDNQPGVLIQVYEGERAMTKDNNLLGRFELSGIPPAPRGVPQIEVTFDIDANGILNVTATDKSTGKANKITITNDKGRLSKEEIERMVQEAEKYKAEDEVQRERVSAKNALESYAFNMKSAVEDEGLKGKISEADKKKVLDKCQEVISWLDANTLAEKDEFEHKRKELEQVCNPIISGLYQGAGGPGPGGFGAQGPKGGSGSGPTIEEVD |
| 4290 | sp|C3K6N7|HTPG\_PSEFS | MTMSVETQKETLGFQTEVKQLLHLMIHSLYSNKEIFLRELISNASDAVDKLRFEALSKPELLEGGAELKIRVSFDKDAKTVTLEDNGIGMSREDAITHLGTIAKSGTADFMKNLSGDQKKDSHLIGQFGVGFYSAFIVADKVEVFSRRAGLDASEGVHWSSKGEGEFEIATVDKADRGTRIVLHLKDGEDEFADGWRLRNIVKKYSDHIALPIELPKEQAAAEGEETPAQEWEVVNRASALWTRPRTEIKDEEYQEFYKHIGHDYENPLSWSHNKVEGKLEYSSLLYVPARAPFDLYQREAPKGLKLYVQRVFVMDQAESFLPLYLRFIKGVVDSNDLSLNVSREILQKDPIIDSMKSALTKRVLDMLEKLAKNEPEQYKGFWKNFGQVMKEGPAEDFANKEKIAGLLRFASTQGDDGEQVVSLAEYLARAKEGQDKIYYLTGETYAQVKNSPHLEVFRKKGIEVLLLTDRIDEWLMSYLNEFDGKSFVDVARGDLDLGNLDSEEEKKEAEEVAKSKEGLVERIKASLGDAVSEVRVSHRLTDSPAILAIGEQDLGMQMRQILEASGQKVPDSKPIFEFNPAHPLIEKLDGEQSEERFGDLSHILFDQAALAAGDSLKDPAAYVRRLNKLLVELSV |
| 4291 | sp|P84588|HSP7D\_RAT | STAGDTHLGGEDF |
| 4292 | sp|Q2KHU9|HSPB3\_BOVIN | MAKIILRHLIETPVRYEQEFEARGLEDCRLDHALYALPGPTTVDLGKARAAQAPPVDAAEMPPQRGESRFQVLLDVVQFLPEDIIIQTFEGWLLIKAQHGTRMDEHGFISRSFTRQYKLPDGIETKDLSAILCHDGILVVEVKDSAGTK |
| 4293 | sp|P0AB21|HSPQ\_ECOL6 | MIASKFGIGQQVRHSLLGYLGVVVDIDPVYSLSEPSPDELAVNDELRAAPWYHVVMEDDNGLPVHTYLAEAQLSSELQDEHPEQPSMDELAQTIRKQLQAPRLRN |
| 4294 | sp|O69241|HSPD\_BRADU | MRSYDFSPLWRSTIGFDRLFDLAESAQRATEDNYPPYNIERLGDDRYQISLAVAGFSPDEISVTAEQNVVTIEGNKTDKTEREFMYRGISTRAFKRQFNLADYVQVKNASFDNGLLKIELVREIPEAMKPRRIAINGATSDNLHKLESRAA |
| 4295 | sp|A8GQ51|HTPG\_RICAH | MTQEKKKFDAEVGKILNLMIHSLYSNKEIFMRELISNASDACDKLRYLSQSHSELVASDSNFKITVKVDKDNWQIIIRDNGIGMNKEDLIDNLGTIARSGTANFLKSLSGDSKKDNMLIGQFGVGFYSSFMVADKVTVTSRKAGEDTVHVWESDGLGEYIVSDSDKEFTRGTEIILHIKKEEDIFLDHFRLKHIVKSYSDHVAVPIYFFDEAGNNEIQLNSASALWTRPKSEITEEQYKEFYKSLSYAVDDPWITMHNKNEGAIEFTNLLFIPSSKTFDLFHPDRKRRVKLYIKRVFISDENIDLIPSYLRFLRGVVDSEDLPLNISRESLQHNSVLEKIKNAITKRVLGELRKKKEESSEEYNKFWANFGGALKEGLCEATTDHEKLLEVCIFRSALHNKMISLDEYIAGFKEEQNTIYYLSGDNPDKLLSSPQIEGLLSKNIDVLLFTDTVDDFWVNVNSEYKGHAIKSATRSDIDVEQTTSQSEDKNTHSKKSDDEYKLLTDYFKETLGKLVKEVKISKKLTSSPACLAVSDSAMDIRMERFLIEQKQITAASAKNLELNPKNKIIEKIFNDLKANNKNNEELVNLIFDQACILEGEPVADTGAFSKRLNDIVQKAIL |
| 4296 | sp|A8F5A8|HSLU\_PSELT | MTNFDNLTPKEIVRELDKYIIGQYQAKKAVAIAIRNRIRRQKLPDIWQKEVLPKNILMIGPTGVGKTEIARRLAQLSGSPFLKVEATRFTEVGYVGKNVDSMVRDLVEISVNMVKKERMEQVKDKAEQMVEERILDALIPESRKPQNISFMGLFTASQQQQPSPEERRSLRQKREEIRQKLRNGELENEMIEIEIEKEISPFIGALGQGELEDLGIDLGSMLGSLMPKTRQKKRMTVSEARRTLLPIESEKLIDMDKATQEALERAQNRGIIFIDELDKIAVKSSGSGPDVSRQGVQRDLLPIVEGTTIMTKYGPVRTDYILFIGSGAFHMSRPSDLIPELQGRFPIRVELSSLTRKDFVRILVEPENAITKQYQALLSTEGIELIFTEDGIEEMAKIAYELNQRLENIGARRLYTVVEKVLEEISFEAPDVQEKKIIIDAKYVMGKLENIISDEDVSSYIL |
| 4297 | sp|Q9JK92|HSPB8\_MOUSE | MADGQLPFPCSYPSRLRRDPFRDSPLSSRLLDDGFGMDPFPDDLTAPWPEWALPRLSSAWPGTLRSGMVPRGPPATARFGVPAEGRSPPPFPGEPWKVCVNVHSFKPEELMVKTKDGYVEVSGKHEEKQQEGGIVSKNFTKKIQLPAEVDPATVFASLSPEGLLIIEAPQVPPYSPFGESSFNNELPQDNQEVTCS |
| 4298 | sp|B4TE05|HSPQ\_SALHS | MIASKFGIGQQVRHSLLGYLGVVVDIDPEYSLDEPSPDELAVNDELRAAPWYHVVMEDDDGQPVHTYLAEAQLRSEMRDEHPEQPSMDELARTIRKQLQAPRLRN |
| 4299 | sp|Q7XUW5|HS232\_ORYSJ | MASMRTAAAAAMLACIAVVLASTAADGALLPWFGGGGARDEAVPELGLLAAADPFRILEHVPFGFDRDDVAMLSMARVDWRETGDAHEVVVDVPGMRKEDLRVEVEDNRVLRISGERRREETTEQKGGGDHWHREERSYGRFWRQLRLPDNADLDSIAASLDNGVLTVRFRKLAPDQIKGPRVVGIASAGGDDGGKKSIGGAGEGQNQQAKKVEL |
| 4300 | sp|Q88FB9|HTPG\_PSEPK | MTVETQKETLGFQTEVKQLLHLMIHSLYSNKEIFLRELISNASDAADKLRFEALAKPELFEGDADLKIRLSFDKDAGTVTLEDNGIGMSREDVIAHLGTIAKSGTADFMKNLTGDQKKDSHLIGQFGVGFYSAFIVADKVDVYSRRAGQPAAEGVHWSSKGEGEFEVATIDKPQRGTRIVLHLKKDEQEFADGWRLRNVVKKYSDHIALPIQLPKEQAATEGEEQPAEEWETVNRASALWTRSRTEVKDEEYQEFYKHIGHDFENPLAWSHNKVEGKLEYNSLLYVPARAPFDLYQREAPRGLKLYVQRVFIMDQAESFLPLYLRFIKGVVDSNDLSLNVSREILQKDPIIDSMKTALTKRVLDMLEKLAKNEPEKYKGFWKNFGQVLKEGPAEDFANKEKIAGLLRFASTQDDSGEQSVALADYLARAKEGQDKIYYLTGESYAQVKNSPHLEVFRKKGIEVLLLTDRIDEWLMSYLNEFDGKAFVDIARGDLDLGKLDSEEDKKAQEEVAKDKEGLVERLKGALGDSVAEVRVSHRLTDSPAILAIGEQDLGLQMRQILEASGQKVPESKPIFEFNPSHPLIEKLDHEQSEDRFAELSHILFDQAALAAGDSLKDPAAYVRRLNKLLVELSA |
| 4301 | sp|P86237|HS71L\_MESAU | TTPSYVAFTDTERLWPFQVINEAGKPKDAGVIAGLNVLRATAGDTHLGGEDFDNRLVSHFVEEFKRLRTACERAKIHDIVLVGGSTRLLQDYFNGRDLNKITITNDKGRLSKEEIER |
| 4302 | sp|A8GWJ4|HTPG\_RICB8 | MKQEKKKFDAEVGKILNLMIHSLYSNKEIFMRELISNASDACDKLRYLSQSEAELVAGDSNFKITVKGDKNNGQVIIRDNGIGMNKEDLIENLGTIARSGTANFLKNLSGDSKKDNMLIGQFGVGFYSSFMVADKVTVTSRKAGEDKVYVWESEGEGEYIVSNSDREFSRGTEIALHIKKEEDSFLDHFRLKHIVKSYSDHIAVPIYFFDEGDNNEIQLNSASALWTRSKSEITEEQYKEFYKSLSYAVDDPWVTMHNKNEGAIEFTNLLFIPSSKTYDLFHPDRKRRVKLYIKRVFISDENIDLIPSYLRFLRGVVDSEDLPLNISRESLQHNNVLEKIKNAITKRVLGELKKKKEDSPDEYNNFWANFGGALKEGLCEATTDHEKLLEVCIFRSALHNKMISLDEYIKGFKEGQNTIYYLSGDNPDKLLSSPQIEGLLSKNIDVLLFTDTVDDFWVNVNSEYKGHAIKSATRSDIDVDQATSSSEEKNKDDKKSDDEYKSLTDYFKEVLGILVKDVKISKKLTSSPACLAVSEAAMDIRMERFLIEQKQIANASAKNLELNPKNKIIEKIFNDLKANNKNNEELVKLIFDQACILEGEPVADTGAFSKRLNDIVQKAIL |
| 4303 | sp|B5F1W2|HSPQ\_SALA4 | MIASKFGIGQQVRHSLLGYLGVVVDIDPEYSLDEPSPDELAVNDELRAAPWYHVVMEDDDGQPVHTYLAEAQLRSEMRDEHPEQPSMDELARTIRKQLQAPRLRN |
| 4304 | sp|Q5B0C0|HSP7M\_EMENI | MLSSRLSRALPRTAPFARAPAFRLPSTAARRWNSTEEKVKGQVIGIDLGTTNSAVAVMEGKTPKIIENAEGARTTPSVVAFAQDGERLVGIAAKRQAVVNPENTLFATKRLIGRKFTDAEVQRDIKEVPYKIVQHTNGDAWVEARGEKYSPAQIGGFVLGKMKETAENYLSKPVKNAVVTVPAYFNDSQRQATKDAGQIAGLNVLRVVNEPTAAALAYGLEKEADRVVAVYDLGGGTFDISVLEIQKGVFEVKSTNGDTHLGGEDFDISLVRHIVQQFKKESGLDLSNDRMAIQRIREAAEKAKIELSSSLQTEINLPFITADASGAKHINLKMTRAQLESLVEPLISRTVDPVRKALKDANLQSSEVQDIILVGGMTRMPKVTESVKSLFGREPAKSVNPDEAVAIGAAIQGAVLAGEVTDVLLLDVTPLSLGIETLGGVFTRLINRNTTIPTKKSQTFSTAADFQTAVEIKVFQGERELVKDNKLLGNFQLVGIPPAHRGVPQIEVTFDIDADSIVHVHAKDKSTNKDQSITIASGSGLSDAEIQSMVEDAEKYGAQDKERKAAIEAANRADSVLNDTEKALKEFEDRLDKAEAEQIREKINTLREFVAKNQSGEVAATAEELKQKTDELQTASLTLFDKMHKAQSEQQQQPNQGETGQGENKP |
| 4305 | sp|Q557E0|HS7C2\_DICDI | MSSSIGIDLGTTYSCVGVWQNDRVEIIANDQGNRTTPSYVAFNETERLIGDAAKNQVAMNPTNTIFDAKRLIGRKFSDPVIQSDMKHWPFKVIAKEGDKPHLQVEFKGEVKTFSPEEVSSMVLLKMKETAEAYLGKTINNAVITVPAYFNDSQRQATKDAGAIAKLNVQRIINEPTAAAIAYGLEKKSQGERNILIFDLGGGTFDVSLLTIEDGVFEVKATAGDTHLGGEDFDNRLVNHFVDEFKRKHKKDLMTNQRALRRLRTACERAKRTLSSSAQASIEIDSLFEGIDFYTSITRARFEELCADLFRGCLDPVDKVLKDSKLDKKTIHEIVLVGGSTRIPKVQQLLQDHFNGKELNKSINPDEAVAYGAAVQAAILSNEGGAKVADILLLDVAPLSMGLETAGGVMTTLIPRNTTIPCKKNQTFSTYSDNQTGVLVQVYEGERAMTRDNNLLGKFELTNIPPAPRGVPQIEVTFDIDANGILNVSAEDKSTGNKHKITITNDKGRLTAEQIEKMVKDAEMFKAQDEAQREVVESKNKLENYAYTVRSTIKDDKIAAKLSKEDRKTVEEKSDEAINWLHANDSATKEEYEKAMKDLEAVCSPIISKVYGQQGGENPGNFSGAKTTEEDLD |
| 4306 | sp|B7N3C9|HSPQ\_ECOLU | MIASKFGIGQQVRHSLLGYLGVVVDIDPVYSLSEPSPDELAVNDELRAAPWYHVVMEDDNGLPVHTYLAEAQLSSELQDEHPEQPSMDELAQTIRKQLQAPRLRN |
| 4307 | sp|O16068|HSP83\_DROPB | MPEEAETFAFQAEIAQLMSLIINTFYSNKEIFLRELISNASDALDKIRYXSXTDPXKLXXXXXXXXXXIPNKTAGTLTIIDTGIXMTKSDLVNNLGTIAKSGTKAFMEALQAGADISMIGQFGVGFYSAYLIADRVTVTSKNNDDEQYVWESSAGGSFTVKADNSEPLGRGTKIXLYIKEDQTDYLEESKIKEIVNKHSQFIGYPXKXXXEKERXKEVSDDEADDEKKDDEAKKDMDTDEPKIEDVGEDEDADKKDKDGKKKKTIKEKY |
| 4308 | sp|B5YT97|HSPQ\_ECO5E | MIASKFGIGQQVRHSLLGYLGVVVDIDPVYSLSEPSPDELAVNDELRAAPWYHVVMEDDNGLPVHTYLAEAQLSSELQDEHPEQPSMDELAQTIRKQLQAPRLRN |
| 4309 | sp|O02705|HS90A\_PIG | MPEETQTQDQPMEEEEVETFAFQAEIAQLMSLIINTFYSNKEIFLRELISNSSDALDKIRYESLTDPSKLDSGKELHINLIPNKQDRTLTIVDTGIGMTKADLINNLGTIAKSGTKAFMEALQAGADISMIGQFGVGFYSAYLVAEKVTVITKHNDDEQYAWESSAGGSFTVRTDTGEPMGRGTKVILHLKEDQTEYLEERRIKEIVKKHSQFIGYPITLFVEKERDKEVSDDEAEEKEDKEEEKEKEEKESEDKPEIEDVGSDEEEEEKKDGDKKKKKKIKEKYIDQEELNKTKPIWTRNPDDITNEEYGEFYKSLTNDWEDHLAVKHFSVEGQLEFRALLFVPRRAPFDLFENRKKKNNIKLYVRRVFIMDNCEELIPEYLNFIRGVVDSEDLPLNISREMLQQSKILKVIRKNLVKKCLELFTELAEDKENYKKFYEQFSKNIKLGIHEDSQNRKKLSELLRYYTSASGDEMVSLKDYCTRMKENQKHIYYITGETKDQVANSAFVERLRKHGLEVIYMIEPIDEYCVQQLKEFEGKTLVSVTKEGLELPEDEEEKKKQEEKKTKFENLCKIMKDILEKKVEKVVVSNRLVTSPCCIVTSTYGWTANMERIMKAQALRDNSTMGYMAAKKHLEINPDHSIIETLRQKAEADKNDKSVKDLVILLYETALLSSGFSLEDPQTHANRIYRMIKLGLGIDEDDPTADDSSAAVTEEMPPLEGDDDTSRMEEVD |
| 4310 | sp|B5RRB6|HSLV\_BORRA | MNFKGTTVIAIRRAGKTVVAADGQVTFGYTVLKSNAVKIRKLVNGKILAGFAGSTSDAITLFEKFEEKVKSREDGIIDIKRAAVDLAKDWRADKILHKLEAMMLVADSDNILLISGTGDVVEPEEDVISIGSGGNYAYSAALAYMENKKLSAADIAFKALKIAARVCIYTNSNIVLEEIG |
| 4311 | sp|A9R6C7|HSLU\_YERPG | MSEMTPREIVSELDSHIIGQDKAKRAVAIALRNRWRRMQLNEELRHEVTPKNILMIGPTGVGKTEIARRLAKLANAPFIKVEATKFTEVGYVGKEVDSIIRDLTDAAVKMVRHQSIEKMRYRAEELAEERILDVLIPPAKNNWGVPDESQEPSATRQTFRKKLREGQLDDKEIEIDLAAAPMGVEIMAPPGMEEMTNQLQSMFQNIAGQKQKPRKIKIKEALKLLIEEEAAKLVNPEELKQQAIDAVEQHGIVFIDEIDKICKRGQTSGPDVSREGVQRDLLPLVEGCTVSTKHGMVKTDHILFIASGAFQVSSPSDLIPELQGRLPIRVELQALTTDDFERILTEPSASLTEQYKALMATEGVTIEFTREGIRKIAEAAWQVNERTENIGARRLHTVLERLMEDISYDASESSGQSITIDAEYVGKHLDELVADEDLSRFIL |
| 4312 | sp|B7NMG4|HSLO\_ECO7I | MPQHDQLHRYLFENFAVRGELVTVSETLQQILENHDYPQPVKNVLAELLVATSLLTATLKFDGDITVQLQGDGPMSLAVINGNNNQQMRGVARVQGEIPENADLKTLVGNGYVVITITPSEGERYQGVVGLEGDTLAACLEDYFMRSEQLPTRLFIRTGDVDGKPAAGGMLLQVMPAQNAQQDDFDHLATLTETIKTEELLTLPANEVLWRLYHEEEVTVYDPQDVEFKCTCSRERCADALKTLPDEEVDSILAEDGEIDMHCDYCGNHYLFNAMDIAEIRNNASPADPQVH |
| 4313 | sp|Q2FGE1|HRCA\_STAA3 | MITDRQLSILNAIVEDYVDFGQPVGSKTLIERHNLNVSPATIRNEMKQLEDLNYIEKTHSSSGRSPSQLGFRYYVNRLLEQTSHQKTNKLRRLNQLLVENQYDVSSALTYFADELSNISQYTTLVVHPNHKQDIINNVHLIRANPNLVIMVIVFSSGHVEHVHLASDIPFNNDKLNTISNFVTNKLTEFNQNLQDDIVSFVQSEQEEIFINKLLNTMNNHISNQSNSIYMGGKVKLIDALNESNVSSIQPILQYIESNRIAELLQDISSPNINVKIGNEIDDSLSDISIVTSQYHFDETLKGQIAVIGPTAMHYQNVIQLLNRIW |
| 4314 | sp|Q2FXZ0|HRCA\_STAA8 | MITDRQLSILNAIVEDYVDFGQPVGSKTLIERHNLNVSPATIRNEMKQLEDLNYIEKTHSSSGRSPSQLGFRYYVNRLLEQTSHQKTNKLRRLNQLLVENQYDVSSALTYFADELSNISQYTTLVVHPNHKQDIINNVHLIRANPNLVIMVIVFSSGHVEHVHLASDIPFNNDKLNTISNFVTNKLTEFNQNLQDDIVSFVQSEQEEIFINKLLNTMNNHISNQSNSIYMGGKVKLIDALNESNVSSIQPILQYIESNRIAELLQDISSPNINVKIGNEIDDSLSDISIVTSQYHFDETLKGQIAVIGPTAMHYQNVIQLLNRIW |
| 4315 | sp|Q84B70|HRCA\_NODSP | MEVQLTNRQQHILWATVRHYIATAEPVGSKALVDEYDLGVSSATIRNVMGVLEKSGLLYQPHTSAGRIPSDSGYRIYVDQLITPGLRDAARTDVLAKEVELALQNRLHWEDWSLEAVLQGAAQILATVSGCISLITMPQTTTAILRHLQLMQIEANKIMLIVVTDDYETHSKLMNLSPTEEEAKLDADGIDHELKIVSNFLNTHLRGRSLLELATLDWSDLDQEFQRYGEFLKGSVTELTRRHLTPTTTQIMVRGVAEVLRQPEFSQLQQVQTIIQLLEEEQDQLWRLIFAEPETEEAGKSKVTVRIGTENPLEPIRTCTLITSTYRRGLLPVGSVGVLGPTRLDYDSAIAVVAAAADYLSDAFS |
| 4316 | sp|B8GTV4|HTPX\_THISH | MKRIFLFLATNLAIIVVLSIVLRLLGVERILDESGTNLNLNALLIFAAVFGFGGSFISLAISKWMAKKTMRVHVIEQPRNSTEQWLLETVRRQAREAGIGMPEVGIFNSPDPNAFATGMSKNNALVAVSTGLMDRMNADEVEAVLGHEVAHVANGDMVTLALIQGVVNTFVIFLARVVGHFVDRVVFKNEQGHGPAFWITTIVAEIVFAILASIIVMWFSRQREFRADAGGARLAGREKMISALEKLRAVHTPSQMPDQMAAFGIRGGMGQGLKKLFMSHPPLEERIMALKAMQR |
| 4317 | sp|Q5FRF2|HRCA\_GLUOX | MMRPQPPLFRPSIPMPHGLGDREAAILREIVEEYVETGEPIGSQTLAQRLQPSLSPATIRNVMAELARAGLLFSPHVSAGRLPTEKGVRLFVDGLLQFSSLTEEDRASIDSRLDIHGRSYQDILSEASSLLSGLSSAAGLVLAPKSDATLKHIEFVALGPGRVLVILVGSDGQVENRIIETPPGVPPSALVEAGNYLNSRLGDLTLGNLRERVRAEMDASRHELDALTASVIESGLATWDADGGTLFVKGQGKLLADITEIERLTTIRMLFDHLETQETMLQLLQLADASEGVRIYIGRESGMFGMSGVSMIVAPARNEAQKIVGAIGVIGPTRLNYGRIVPVVDYTARMVGRLLG |
| 4318 | sp|A4T2C4|HRCA\_MYCGI | MGSAEDRRFEVLRAIVADFVATKEPIGSKTLVDRHNLGVSSATVRNDMAVLEAEGYITQPHTSSGRVPTEKGYREFVDRLDDVKPMSSAERRAILSFLESGVDLDDVLRRAVRLLAQLTRQVAVVQYPMLSTSTVRRLEVVALTPARLLLIVITDSGRIDQRIVELGDAIDEDELTQLRDLLGQALEGKPLTTASIAVSDLASHLGGQGRLANAVGRSATVLVESLVEHREERLLLGGTANLTRNTADFGGSLRSLLEALEEQVVVLRLLAKQQEAGKVTVRIGHETEAEEMAGASVVTTAYGSAGKVFGGMGVLGPTRMDYPGTIANVAAVALYIGEVLGNR |
| 4319 | sp|Q32EZ5|IRAM\_SHIDS | MKWVVIDTVIQPTCGISFSAIWGDMKMIIWYQSTIFLPPGSIFTPVKPGIILKDKEYPITIYNIAPFNKNLWSLLKSSQECPPGESEITNKCLHKSCIIKICPYGLK |
| 4320 | sp|P22549|IPDE\_DICDI | MAKIIISLILLLSLFSFSYGAYNCNKLNCSSKNTKCRTFSCTSVVGCYYTDKCTSPDLCHNSACNASTGNCTLTTISCNDNNPCTDDFCHPGYGCYSVPNSCDPGVICQQNCNDNDPCTYDFCDALNICRHSETYCNDGDACTLNTCGVNGCNFTKISCDDNDPCTADYCSTLYGCYHEPIECSIKVPCNIDSDCNRNNGCETFTCNLSTNTCDYYAKNCGGWPCINNQCTTGSISN |
| 4321 | sp|Q92HZ1|LON\_RICCN | MHKKSLPLMALRDMVVFPGVIAPIFVGRPKSLQALSHTTISEEDNSKYILVTLQKKFDQENPSTHELYNTAILAKIIQIVKLPNNTAKILIEAVARVKLSNIKGEEAFEANYEIIPDEEIFDVNNMRSLVDNAVQLFSKYAINDKKVNAEIIETINKEISNSTNFIDIINILASHLITSLEAKQHLLEETSPFKRITTVISMLNSNIVNSETEQALQKRVRKQIEKTQRDYYLHEQMKAIQKELDEDKSELADIENKIKSLKLSKEAKEKAEAELKKLRTMNQMSAESGVTRNYLETLLSLPWGKYDNSKIDINQAEKILNRDHFGLEKVKERIIEYLAVLQRSSKIRGPILCLIGPPGVGKTSLVKSIAEGMGRKYTKLALGGVRDEAEIRGHRKTYLGSMPGKILGQLKKVKTSNPVMLLDEIDKMSSDFRGDPASALLEVLDPEQNSHFVDHYLEVEYDLSNVIFIATANSHDLPRALSDRMEKIYISGYVEETKLQIARNYLVPKQFKMHKIKKDEITISETAILDLIRYYTKESGVRALEREIGALTRKALKQILADKSVKHIAIDSNHLEEFLGAKKYNFGLAEKEDQIGSTTGLAYTEVGGELLTIEALAFPGKGEIKTTGKLGDVMKESAMAAYSCFRSRATNFGLKYDNYKDFDIHIHVPAGAIPKDGPSAGCALFTTIVSLMTKIPVHRTVAMTGEITLRGNVLPIGGLKEKLLAASRGGIKTVLIPEENVKDLKDIPPNIKESLEIISVSNIDQVLKHALVGTPINK |
| 4322 | sp|A0L516|LON\_MAGMM | MSEQRSDEPEVVDAIIEDQQGAQATTDATPPVRIENSLPTELVIYPLGGRPFFPGMLTPIQVEGSPYYETIKKAMDSHGRLFGILASHAEDGQEVFDANQLFGIGTVVRILEASVNEEAKQIKLLAEGLWRFEVRDVVSVGPPIVAQVTHHNNPVSVVDTDALKPYTMAVINTLKEILKYDSLYQEQVKMFLSRHNFSEPDRLADFVASMTSSSREELQEVLETLPIMARLEKVLTLLKKELEVVKLQNKIQRQVEEGIAEHQRQFFLREQLKEIQKELGITKDDRTAEIDRFRERLEKLTLSEEAEQKIEEELDKLAILETGSSEYGVTRNYVDWLTSLPWGVHSTDKLNIARARRILDRDHDGLEDVKERILEFLAVGKLKGEIGGSIILLVGPPGVGKTSIGRSVATAVGREFYRFSVGGMRDEAEIKGHRRTYVGAMPGKFVQAIKHTKVANPLIMLDEVDKIGASYQGDPASALLEVLDPEQNSEFLDHYMDVRFDLSKVLFICTANQLDTIPRPLLDRMEVIRLSGYITSEKVRIARNHLLPKQLEKNGLDKSQLRVSNGALREIIEGYAREAGVRRLEQKIGAIARKVAVKVLEEAELPISVGQNDLDSYLGKPDFREEKPLTGVGIVTGLAWTALGGATLDIESAQTSTEGNTLLLTGQLGDVMKESARIAFSFLQSNVEKLGGKSERLKGNIHLHVPEGATPKDGPSAGITIATALLSLARTQPLPRRLAMTGEITLTGSVLAVGGVREKVIAARRVGIRELIIPEACRKDYDEVPEHIREGFTVHFVKKYAEVAKLVFG |
| 4323 | sp|Q8BK64|AHSA1\_MOUSE | MAKWGEGDPRWIVEERADATNVNNWHWTERDASNWSTEKLKTLFLAVRVENEEGKCEVTEVNKLDGEASINNRKGKLIFFYEWTIKLNWTGTSKSGVQYKGHVEIPNLSDENSVDEVEISVSLAKDEPDTNLVALMKEDGVKLLREAVGIYISTLKTEFTQGMILPTVNGESVDPVGQPALKTETCKAKSAPSKSQAKPVGVKIPTCKITLKETFLTSPEELYRVFTTQELVQAFTHAPAALEADRGGKFHMVDGNVTGEFTDLVPEKHIAMKWRFKSWPEGHFATITLTFIDKNGETELCMEGRGIPAPEEERTRQGWQRYYFEGIKQTFGYGARLF |
| 4324 | sp|Q51LD2|ATG3\_MAGO7 | MNSLYSVVNTLRDRYAPVSHTSTFRQTGEITPEEFVAAGDYLVFKFPTWSWGDADSESRRASHLPPGKQFLVTRNVPCNRRLNENFAGDAGLEEAVVDDGDEFKGSKGDDDGWLRTGGLSSSQPLKAREVRTVDDAGNAGERAQPDDDDDIPDMEDEEDDEAIIRDTDASGQTSSRRTYTLYIMYSPYYRTPRLYLSGYGANGQPLPPHNMMEDIMGDYKDKTVTLEDFPFFANNIKMASVHPCKHAPVMKTLLDRADAALKLRREKLKTGDASGQQAGLEGLADEFNKLGVSGKGDASKIDKNDEWEDIQHDDVADQEVAIRVDQYLVVFLKFIASVTPGIEHDFTMGV |
| 4325 | sp|O95990|F107A\_HUMAN | MYSEIQRERADIGGLMARPEYREWNPELIKPKKLLNPVKASRSHQELHRELLMNHRRGLGVDSKPELQRVLEHRRRNQLIKKKKEELEAKRLQCPFEQELLRRQQRLNQLEKPPEKEEDHAPEFIKVRENLRRIATLTSEEREL |
| 4326 | sp|Q9UW96|G3P\_PLESA | MVNVGINGFGRIGRIVFRNALEVGGVDVVAINDPFIDLDYMVYMFKYDSVHGRFKGSIEAKDGKLIVEGKPIHIFAEKDPANIPWGSVGADYVVESTGVFTTIDKASAHLKGGEKVVISAPSADAPMFVCGVNLETYDPKYKVISNASSTTNCLTPLAKVIHDKFGIVEGLISTIHATTATQKTVDGPSHKDWRGGRSVNNNIIPSSTGAANWVGKVIPSLNGKLTGLSFRVPTLDVSVVDLVVRLEKPADYKEIVAAIKEASETTHKGILGFTSDSVVSTDFVGSTDSSIFDSTAGIQLNPNFVKLIAWYDNEYGYSRRVVDLLKYVAEKDGAQ |
| 4327 | sp|Q97K92|FPRA1\_CLOAB | MSAEKLCENVYWVGVKDQKLRVFDIIMNTKKGSTYNSYLINDDKVAIIDTVKDGFYDEFLKSIKSVIGDKKVDYIVVQHTELDHSGSMYRLIKEYPEAKVVSSKAANMYLKEIVNDEFNSLDAMEVKELNLGKNTLEFISAPNLHWPDTMFTYNKENNILFTCDVMGCHYCPDGSIKDEGGEDYLPEMRYYFDVIMSPFKKFVNMGLDKIKDLKLDMIAPSHGPVHINDIEESVKLYREWAKEKEPKEKNVQIFYITAYGNTGIMAKHLCEDINKKGVKAEVHEITDMKMEDIVELIADANGVLVGSPTINQDAVRPVWDVLSSVCPIVNRGKAAAAFGSYGWSGEGVPMMMDRLKSLKFKTPDNGLKFKFVPASKEFSEADKFVDDFIGLL |
| 4328 | sp|C0LGQ9|GHR1\_ARATH | MNLSRILLLSMFFLSAMGQLPSQDIMALLEFKKGIKHDPTGFVLNSWNDESIDFNGCPSSWNGIVCNGGNVAGVVLDNLGLTADADFSLFSNLTKLVKLSMSNNSLSGVLPNDLGSFKSLQFLDLSDNLFSSSLPKEIGRSVSLRNLSLSGNNFSGEIPESMGGLISLQSLDMSSNSLSGPLPKSLTRLNDLLYLNLSSNGFTGKMPRGFELISSLEVLDLHGNSIDGNLDGEFFLLTNASYVDISGNRLVTTSGKLLPGVSESIKHLNLSHNQLEGSLTSGFQLFQNLKVLDLSYNMLSGELPGFNYVYDLEVLKLSNNRFSGSLPNNLLKGDSLLLTTLDLSGNNLSGPVSSIMSTTLHTLDLSSNSLTGELPLLTGGCVLLDLSNNQFEGNLTRWSKWENIEYLDLSQNHFTGSFPDATPQLLRANHLNLSYNKLTGSLPERIPTHYPKLRVLDISSNSLEGPIPGALLSMPTLEEIHLQNNGMTGNIGPLPSSGSRIRLLDLSHNRFDGDLPGVFGSLTNLQVLNLAANNLSGSLPSSMNDIVSLSSLDVSQNHFTGPLPSNLSSNIMAFNVSYNDLSGTVPENLKNFPPPSFYPGNSKLVLPAGSPGSSASEASKNKSTNKLVKVVIIVSCAVALIILILVAILLFCICKSRRREERSITGKETNRRAQTIPSGSGGGMVVSAEDLVASRKGSSSEILSPDEKLAVATGFSPSKTSNLSWSPGSGDSFPADQQLARLDVRSPDRLVGELHFLDDSIKLTPEELSRAPAEVLGRSSHGTSYRATLDNGVFLTVKWLREGVAKQRKEFAKEVKKFSNIRHPNVVTLRGYYWGPTQHEKLILSDYISPGSLASFLYDRPGRKGPPLAWTQRLKIAVDVARGLNYLHFDRAVPHGNLKATNILLDGAELNARVADYCLHRLMTQAGTVEQILDAGILGYRAPELAASRKPLPSFKSDVYAFGVILLEILTGRCAGDVITGEQEGVDLTDWVRLRVAEGRGAECFDSVLTQEMGSDPVTEKGMKEVLGIALRCIRSVSERPGIKTIYEDLSSI |
| 4329 | sp|Q6F754|GBTR\_ACIAD | MPSKTSSRFANINPNVFVSTIMIIAIFLAIVILAPDAFELLTQQLKNWITESFSWFYVLSVAFFLIVLGYIACSSSGKIKLGPDHSQPDYSNSSWFAMLFTAGMGIGLMFFGIAEPIMHYVSPPSGEPETILAAQQSMRVTFFHWGLHAWGIYAIVALSLSYFAYRHDLPLKIRSSLYPLIGKKIYGPMGDAVDTFATIGTIFGVATTLGFGVTQISSGLNYLFGFEPTSFSKVVLIIIVSAMAALSVGLGLDKGVKRLAELNLVLAVTLLAFVFFTSATVYLLQTTIQNTGQYISNLFEMTFNLYAYQPNGWIGGWTIMYWAWWISWSPFVGMFIARVSRGRTIREFIIGVMLIPTGFTLIWMGFMGNAGLYSILHDGNLSLLNAVQRDSSVALFEFLHSLPFSGVMSLLATVLVVLFFVTSADSGALVVDYLTAKSEDSPVWQRLFWIVVMAGLAIILLLAGGLTALQSATIMSALPFTFIMLLICWGLIKALRIDSTKMQAIQEARTTPRAIQNPRSWQQRLGLIMHYPHSKVEVDAYIKKHVQRAFESLEREFKRRHLTVAISETDDGLQLKVDHHDEINFIYHVVSRETMPPSFMLEQEHNADVEKYFQAEVFLREGGQNYDVMDWTEEDLIQDIIDQYERHLYFLSVMRAQTGN |
| 4330 | sp|Q9RY24|GRPE\_DEIRA | MFTNPFGRKKDMSDDQKKNNQPDTEADNAENIKFAADDTELRAGDETDADFEMPEGFPEMDENMFGQVQEMMAKLERVDELEKENADLKNRLGRLASDFEGYRNRTTIESAEAHDKGVSKAAEALMPVYDDIDRALSLSVDDAAKLVPGMQAVQNKVLTIFGTLGLEATGREGEQFDPQWHEAIQVVAGDEDEKIVQTYQLGFKMGDRLVRPARVVVSRKG |
| 4331 | sp|P57340|GRPE1\_BUCAI | MIHNEEEQLEKKIEKNQDPKINHKKYDSDNLIKKNLIQFLEIQLKESEEKIIEKEEIVEKEIVLIHNRFNKEIEKSIKFSLEKIIIDFLPIIDNIERALNLIETINLKQEKYTEILKKLQFICNLLEKFFYLFNIKKINDTNVLFNPSIHQAMSIHYTNDIISNQIVTVMQSGYILHKSRLLRPAMVVVSKEKI |
| 4332 | sp|Q2NAJ5|GRPE\_ERYLH | MSDDTKKQDTAADAEVEKEMEGVPEHLRDDRGSEEDASDDLSAALESLKSDLEAAKQETLYAKAETQNVRRRMEKDIQDARTYAATGFARDILSIADNLARAIDAIPQELREDEKFKGLVAGIEATQRELDKVFAQHGVSRIAAMGLPLDPNQHQAMMEVPTDEVEPGTIVQEMQAGYMIRDRLLRPSMVGVAKKPD |
| 4333 | sp|Q8G2Y6|GRPE\_BRUSU | MADEKNKPENPDLDQRDINNPRDREALKQAADDFLKARRAEARAEAAADEAEGEVDETANRIAVLEADNTELKDQMLRVAAEMENLRKRTQRDVQDARAYAITNFARDMLSVSDNLRRALDAIPADALEADSNLKSLSEGVEMTERAMLLALERHGVKKLEPEGQKFDPNFHQAMFEVPNPDLPNNTVVQVVQAGYAIGDRVLRPAMVGVSKGGPKVSAENGASTSEDNA |
| 4334 | sp|A3ND70|GRPE\_BURP6 | MENTQENPTDQTTEETGREAQAAEPAAQAAENAAPAAEAALAEAQAKIAELQESFLRAKAETENVRRRAQDDVAKAHKFAIEGFAENLLPVLDSLEAAVGDTSGDLAKVREGVELTLRQLTSALEKGRVAALNPVGEKFDPHLHQAISMVPADQEPNTVVAVLQKGYTIADRVLRPALVTVAQPK |
| 4335 | sp|A9GHU4|GRPE\_SORC5 | MSDSEQNGSNQNTGETAEAHAERAEAAEQQASTPEDKLGEAQAEAARMREQLLRTAADFDNFRKRSRREVEEAQRRGREAILKDLLPVFDNLERAASHAESAPDAKSVAEGVRIVTKQFVDTLDRMGIKRIAAVGKPFDPSVHEAIQQLDSTEHPAGVVIAEVQPGYMLGDYLIRAAMVVVSKGSPVEPAPAAN |
| 4336 | sp|Q5XAD5|GRPE\_STRP6 | MAVFNKLFKRRHSVSEEIKKDDLQEEVEATETEETVEEVIEETPEKSELELANERADEFENKYLRAHAEMQNIQRRSSEERQQLQRYRSQDLAKAILPSLDNLERALAVEGLTDDVKKGLEMTRDSLIQALKEEGVEEVEVDSFDHNFHMAVQTLPADDEHPADSIAEVFQKGYKLHERLLRPAMVVVYN |
| 4337 | sp|Q128K3|GRPE\_POLSJ | MSENTQPEQNQPLTGAPSPEELEAAQAANEFDALTQAQAELVTLQAKNTELADSYLRAKAETENARRRADDEIAKARKFALESFAESLLPVVDSLEAGLAHKDATPEQIREGADATLKQLKTTLERNKIVEINPASGSRFDPHQHQAISMVPAEQEANTVVSVLQKGYLISDRVLRPALVTVTAPK |
| 4338 | sp|C0R3M5|GRPE\_WOLWR | MSDSSKEKKKKFADMVSRQKGDDQQSDNHKQTDDLNEDLNTLKERAVQLEDHLRRAVADNENVKRIMQKQISDASDYAVTKLARDMIDSCDNLKRVMEILKDGDPVHEGIKVAYQKIINDLKKHGIEEVDPLGELFDSNLHQAVVEREDNEKKPGTIVEVLQTGYTIKNRLLRPAMVILSKKSADCGSD |
| 4339 | sp|Q6IT00|GRPE\_VIBHA | MSNEENKVTEEELDQIIEEAEKVEAAAQEAEAELEEIGDEKDAKIAQLEAALLSSETKVKDQQDAVLRSKAEVENMRRRTEQEIDKARKYALNKFAEELLPVIDNLERAIQAADAEHEVVKPILEGVELTHKTFVDAVSKFGLKEINPEGEAFNPEFHQAMSIQESPDHESNTVMFVMQKGYELNGRVVRPAMVMVAK |
| 4340 | sp|Q9HHC2|GRPE\_HALMT | MSDDFAESVTEANAESDTETAADAESSAAEDASAADDAAPEESTGDEQAGETTAESSDAESVTVSERVAEYDDELAAEVEALEARVADLEASVADLETERDEAEETASDLESRLKRTQADFQNYKKRAKKRQQQIKERATEDFVERVVTVRDNLVRALDQDEDADIRDGIESTLKEFDRILEDENVEIIDPEPGTDVDPTRHEVMMRVESDQPADTIADVFQPGYEMAEKVIRAAQVTVSKE |
| 4341 | sp|A4Y4W9|GRPE\_SHEPC | MSNESIKAEQDLIQEGVESEVSTAEASLVDELTQANFRIEELEQLLADALAKVEEQKDSVIRAAAEVDNIRRRAAMDVEKANKFALEKFANELLPVLDNMERALMGTNPEDEATKAIYQGVELTQKSLLTAVAKFGVKQIDPQGESFNPDQHQAIGMQPSADFPANTVMLVMQKGYELNSRLLRPAMVMVSQGGPSQETATIDIEA |
| 4342 | sp|Q3IYI4|GRPE\_RHOS4 | MAEDQAPREETVEAPELTEAPEIDELETLRAERDELRDRFMRALADAENSRKRADRDRREAEQYGGTRLARDLLPVYDNLSRALEVATDEQRAAAAALIEGVELTLRELRNVMNKHGVRPITPQVGDTFDPQQHQAMFEAPVPGTKAGQIIQVMTEGFMIHDRLLRPAQVGVSSNTGA |
| 4343 | sp|A4SZR9|GRPE\_POLAQ | MTQENQNPPPEQEDVAADPQVNEAAASEPAAVKTPEQEIADLNQQIGELQDNFLRAKAEGENIRRRAVEDIAKAHKFAIESFAEHLVPVTDSLYAALSTDAGDAKAFKEGLEITLKQLLSAFEKGRMTEINPAVGDKFDPHHHQAIASVPSEQDPNTVVSVLQRGYTVADRVLRPALVTVSAPK |
| 4344 | sp|Q5PFG9|GRPE\_SALPA | MSSKEQKTPEGQAPEEIIMDQHEEVEAVEPNDSAEQVDPRDEKIANLEVQLAEAQTRERDTVLRIKAEMENLRRRTEQDIEKAHKFALEKFVNELLPVIDSLDRALEVADKANPDMAAMVEGIELTLKSMLDVVRKFGVEVIAETNVPLDPNVHQAIAMVESEEVPAGNVLGIMQKGYTLNGRTIRAAMVTVAKAK |
| 4345 | sp|Q2KD99|GRPE\_RHIEC | MTDETTKNGPDATAADAAADAAANVEIDNSVQEEAKQPDPLELLKAENAELRDRYLRLAAEMDNLRRRTEREVKDAKSYSVAGFARDMLAVSDNLRRALDAISPEAKATADAGLTTLIEGVEMTERSMLSALERHGVRKLEPVGQKFDPNFHQAMFEVPNSEVPNNTVVQVVQAGFTIGERVLRPAMVGVAKGGPKPVEAEINSVFDEKDA |
| 4346 | sp|A7HJA5|HFQ\_FERNB | MAKEKFNLQDRFLNILRTKKIEVKVYLVNGFQTKGIVRSFDNFTVLIESGKQQTLIYKHAISTILPAEYIMLMKTEEEQQEQQEAEQE |
| 4347 | sp|Q6F388|HFA2E\_ORYSJ | MNYRVVNPVKVESGPSTGVANGQPPRPMDGLADGGPPPFLTKTYDMVDDPTTDAVVSWSATNNSFVVWDPHLFGNVLLPRYFKHNNFSSFVRQLNTYGFRKVDPDKWEFANEGFLRGQKHLLKSIKRRKPPNSSPSQQSLGSFLEVGHFGYEGEIDQLKRDKHLLMAEVVKLRQEQQNTKSDLQAMEQKLQGTEQKQQHMMAFLSRVMHNPEFIRQLFSQSEMRKELEEFVSKKRRRRIDQGPELDSMGTGSSPEQVSQVMFEPHDPVDSLFNGVPSDLESSSVEANGGKAQQDVASSSSEHGKIKPSNGELNEDFWEDLLHEGGLDEDTRNPAIDDMNLLSQKMGYLNSSSTKSPQ |
| 4348 | sp|Q7N3N4|HTPX\_PHOLL | MMRIVLFLLTNLAVMLVFGIILSLTGIQGSSVQGLMIMAGLFGFGGAFVSLLMSKWMALRSVGGQVIEQPANEVEHWLVETVRSQAEQVNIAMPQVAIYAAPDINAFATGARRNASLVAVSSGLLDNMSRAEAEAVIAHEISHIANGDMVTMTLLQGIVNTFVIFISRLLAQAVSSFLSGNSDEEESNSSGNPIVYMVASMVLEIVFGILASIITMWFSRYREFHADAGSAKLVGREKMIAALQRLKTSYEPQEEGGMMAFCINGKSKTFSELFMSHPPLDKRIEALRSGQYLNK |
| 4349 | sp|A9NB44|HTPG\_COXBR | MSLQPQAETLSFEAEVKQLLHLVAHSLYSNKEIFLRELISNSSDAADKLRYQALSDAALYENDADLKIWIDFDKDNRTITIRDNGIGMSREEVIENLGTIAKSGTRAFRELLAEKKAEDSQLIGQFGVGFYSAFIVADRVVVRTRRAGMKADQGVEWESTGEGEYTLKNIDKPTRGTEVVLHLKESEEEFLDSLRLRAIITKYSDHILLPIVMKKIKTSGADDEDKNETPEEEVVNRANALWVLPKDKIKDEEYKELYKHIAHDFEDPLAWVHNKVEGKLEYTTLLYIPARAPFDLWNREGQRGLKLYVKRIFIMDDAEHFMPMYLRFVKGIVDSNDLPLNISRELLQSNEVINKIKAGCVKRILSLLEDLAKNDKEKYASFWKAFGQVLKEGPAEDFANRDRIANLLRFASTHNDTDEQNVSLQDYISRMKPEQNKIYYIVADTYTSAKNSPLLEVFRKKDIEVLLMSDRVDEWLVAHLNEFEGKSLQSIAKGTLDLGDLEKEEKVETEKFEKDFDELLKQFKEVLGEKIKDVRITHRLTDSPTCVVFDENEMSGHLQRLLIQTGQDFMQAKPILEINPSHPLILRVKNESDKTRFNRWADLLLNQALLAEGEQLKDPASFVKGLNELLLDS |
| 4350 | sp|P05477|HSP21\_SOYBN | MDFRVMGLESPLFHTLQHMMDMSEDGAGDNKTHNAPTWSYVRDAKAMAATPADVKEYPNSYVFEIDMPGLKSGDIKVQVEDDNLLLICGERKRDEEKEGAKYLRMERRVGKLMRKFVLPENANTDAISAVCQDGVLSVTVQKLPPPEPKKPRTIQVKVA |
| 4351 | sp|B0BPS7|HTPG\_ACTPJ | MSTNQETRGFQSEVKQLLQLMIHSLYSNKEIFLRELISNASDAADKLRFKALSNPALYEGDGELRVRVSFDETLGTLTISDNGIGMNREQVIDHLGTIAKSGTKEFLNSLGTDQAKDSQLIGQFGVGFYSAFIVADKVTVKTRAAGETQAVLWESAGEGDYTVADIEKATRGTDVILHLREEEKEFLSEWRLREIIGKYSDHIGLPVEIQTTEYNEEGKASGQKWEKINKAQALWTRSKNEISDEEYQEFYKHLSHDYNDSLIWAHNKVEGKQEYTSLLYVPAKAPWDMFNREQKHGLKLYVQRVFIMDDAEVFMPNYLRFMRGLLDTNDLPLNVSREILQENKITASLRAALTKRALQLLEKLAKDDQAKYQTFWNEFGLVLKEGVGEDFANKQQIASLFRFASTQTDSSEQTVSLADYVGRMKEGQKAIYFLTADSYVAAKNSPHLELFNKKGIEVLLLSDRIDEWVVGHLTEFDGKPLQSITKSDLDLGDLADKEQEESQKAQQAEFGSFLERAQSYFGERVKKVVLTHRLTDTPAVVSTDNDEMTTQMAKLFAAMGQKAPEVKYTFELNPDHQMVKKIADLTDETEFNDWIELLFEQALLAERGSLENPAAFIKRMNKLLG |
| 4352 | sp|Q18688|HSP90\_CAEEL | MSENAETFAFQAEIAQLMSLIINTFYSNKEIYLRELISNASDALDKIRYQALTEPSELDTGKELFIKITPNKEEKTLTIMDTGIGMTKADLVNNLGTIAKSGTKAFMEALQAGADISMIGQFGVGFYSAFLVADKVVVTSKNNDDDSYQWESSAGGSFVVRPFNDPEVTRGTKIVMHIKEDQIDFLEERKIKEIVKKHSQFIGYPIKLVVEKEREKEVEDEEAVEAKDEEKKEGEVENVADDADKKKTKKIKEKYFEDEELNKTKPIWTRNPDDISNEEYAEFYKSLSNDWEDHLAVKHFSVEGQLEFRALLFVPQRAPFDLFENKKSKNSIKLYVRRVFIMENCEELMPEYLNFIKGVVDSEDLPLNISREMLQQSKILKVIRKNLVKKCMELIDEVAEDKDNFKKFYEQFGKNLKLGIHEDSTNRKKLSDFLRYSTSAGDEPTSLKEYVSRMKENQTQIYYITGESKDVVAASAFVERVKSRGFEVLYMCDPIDEYCVQQLKEYDGKKLVSVTKEGLELPETEEEKKKFEEDKVAYENLCKVIKDILEKKVEKVGVSNRLVSSPCCIVTSEYGWSANMERIMKAQALRDSSTMGYMAAKKHLEINPDHAIMKTLRDRVEVDKNDKTVKDLVVLLFETALLASGFSLEEPQSHASRIYRMIKLGLDIGDDEIEDSAVPSSCTAEAKIEGAEEDASRMEEVD |
| 4353 | sp|Q9QZ58|HSPB3\_RAT | MAKIILRHLIETPVRYQEEFEARGLEDCRLDHALYALPGPTIEDLRKARGTPKALAEDSDSAETPPGEGKSRFQILLDVVQFLPEDIIIQTFEGWLLIKAQHGTRMDEHGFISRSFTRQYKLPDGVETKDLSAILCHDGILVVEVKDPLETK |
| 4354 | sp|B2FN30|HTPX\_STRMK | MLTRIALFLATNFAVLILASIVMSLLGVNPSQMSGLLVMAAIFGFGGSFISLLLSKWMAKRSTGAVVITEPRNQTERWLLATVERQAKAAGIGMPEVAVYEGPEINAFATGANRNNALVAVSTGLLHNMSEDEAEAVLGHEIAHVANGDMITMALLQGVLNTFVIVLARVVGGIIDSALSGNREGGGRGFAYYIIVFVLEMVFGLFATMISMWFSRHREFRADAGGASLAGRQKMIAALERLQLNHGQSTLPTQIAAFGIAGSTAKKLFMSHPPLEERIAALRASTVA |
| 4355 | sp|A7MJW4|HTPG\_CROS8 | MKGQETRGFQSEVKQLLHLMIHSLYSNKEIFLRELISNASDAADKLRFRALSSPDLYEGDGDLRVRVSFDKDKRTLTIADNGIGMTRDEVIDHLGTIAKSGTKAFLESMGSDQAKDSQLIGQFGVGFYSAFIVADKVTVRTRAAGVSADEAVFWESEGEGEYTVADISKADRGTEITLHLREGEDEFLNDWRVRSIISKYSDHIALPVEIETREEKDGETIVSWEKINKAQALWTRSKGEVSDDEYKAFYKHIAHDFTDPLTWSHNRVEGKQEYTSLLYIPSQAPWDMWNRDHKHGLKLYVQRVFIMDDAEQFMPNYLRFVRGLIDSNDLPLNVSREILQDSSITRNLRSALTKRVLQMLEKLAKDDAEKYQTFWKQFGLVLKEGPAEDSANQEAIAKLLRFASTHTDSAAQTVSLADYVSRMKEGQEKIYYITADSYAAAKSSPHLELLRKKGIEVLLLSDRIDEWMMSYLTEFDGKAFQSVAKADESLEKLADEVDESAKEAEKALEPFVERVKTLLGDRVKEVRLTHRLTDTPAIVTTDNDEMSTQMAKLFAAAGQAVPEVKYIFELNPDHQLVKRTADTQDEAQFKEWVELLLDQALFAERGTLEDPNQFIRRMNQLLVS |
| 4356 | sp|Q2P2U8|HTPG\_XANOM | MTVDTDKQTLGFQTEVKQLLQLMIHSLYSNKEIFLRELVSNAADAADKLRFEALVKPELLEGSGELRIRVDYDKDARTVTIDDNGIGMSREDAVSHLGTIAKSGTADFLKHLSGDQKKDANLIGQFGVGFYSAFIVADQVDVYSRRAGLPAREGVHWSSRGEGEFEVASVDKPERGTRIVLHLKDGEDTFADGWTLRGILKKYSDHIGLPIEMRKEHYGEAADKPAEPEWEAVNRASALWTRPKSEIKDEEYQEFYKHIAHDAGNPLAWSHNKVEGKLEYTSLLFVPGRAPFDLYHRDSAKGLKLYVQRVFIMDQAEQFLPLYLRFIKGVVDSSDLSLNVSREILQSGPVVDSMKSALTKRSLDMLEKLAKDKPDDYATFWRNFGQALKEGPAEDYANREKIAGLMRFSSTHDTTGAQSVGLADYVSRLAEGQDKLYYLTGESYAQIKDSPHLEVFRKKGIEVLLLTDRIDEWLMSYLTEFDGKSFVDVARGDLDLGKLDSEEDKKAQEEVAKSKEGLASRIKAALGEDVAEVRVSHRLTDSPAILAIGQGDLGLQMRQLLEASGQAVPESKPVFEFNPTHPLIEKLDAEQDMDRFCDLSQVLFDQAALAAGDSLKDPAGYVKRLNKLLLELSV |
| 4357 | sp|B5FBL8|HSLU\_ALIFM | MSEMTPREIVHELDSHIIGQDKAKRSVAIALRNRWRRMQLAPELRTEVTPKNILMIGPTGVGKTEIARRLAKLANAPFIKVEATKFTEVGYVGKEVESIIRDLTDVAIKMTHQQAVEKVKFRAEEHAEDRILDILLPPARDAWGNNEEGDNDSGTRQSFRKKLREGKLDDKEIEVDVAAPQVGVEIMAPPGMEEMTNQLQGMFQNLSGGNTTKKRKMKIVDALKALTEEEGAKLVNPEELKEQAIFNVENHGIVFIDEIDKICKGSNSHSGDVSREGVQRDLLPLVEGSTVSTKHGMVKTDHMLFITSGAFQMAKPSDLIPELQGRLPIRVELEALTANDFKRILTEPNASLTEQYIALLATENVKVEFTEDGISRIAESAFQVNETTENIGARRLHTVMERLMEEISYDASEKNGESLIVDAEYVSSRLGELVADEDLSRFIL |
| 4358 | sp|O74914|HSP31\_SCHPO | MASEGKVLLVASSYYGPFYPDGMNTGVHFAELLIPYQVFREAGYEVQLTSETGKCKFDDHSIKKSALGEVERDAFDNKDNEFWYALKDIKPADKINYKEFCIMFIAGGHAAMFDLPHATNLQTLAQQIYASNGVLAAVCHGPVMLPFVDDTKSPEGRSVVYGKKVTAFNSTGELVMGVSSALRERNMQDLNSLFREAGAEFVDPPTPMSDFTQVDGRIVTGVNPMSAKSTAEAAIKVSQSLRKT |
| 4359 | sp|Q6NLV0|HS147\_ARATH | MSRNMEVNAGSSGEIPSPIRNRFQKSGSQAVYEVTETKKSCVTRVDMPGCPESDLTYWVDANNVHFFADEPAMPEYENAGRKYGGSMIFNPEAYDVKKTKVKLINGVLWITVPKIPGKNASINVKERILHY |
| 4360 | sp|Q4UKR7|HSPC1\_RICFE | MLKSAKLYIPSIAAIILSSNIAMAXNNYDTGHATPLRQVADLIDNQITNIDNLFKNRLPLYESNSIKSNFITKDKQYIIIMEVPGFDKSQIKIKVNGNKLFITRNIEEKNKADDSDNYMNKNFNYVISLYEDVDQANISSSLKNGILTIILPRIEIKEQDAREITIN |
| 4361 | sp|O93866|HSP70\_TRIRU | MAPAVGIDLGTTYSCVGIFRDDRIEIIANDQGNRTTPSFVAFTDTERLIGDAAKNQVAMNPINTVFDAKRLIGRKFNDAEVQADMKHFPFKVVEKSGKPIVQVEFKGEEKQFTPEEISSMVLTKMRETAEAYLGGTVNNAVITVPAYFNDSQRQATKDAGLIAGLNVLRIINEPTAGGIAYGLDKKADGERNVLIFDFGGGTFDVSLLTIEEGIFEVKSTAGDTQLGGEEFDNRLVNHFVNEFKRKNKKDLSTNARALRRLRTACERAKRTLSSAAQTSIEIDSLYEGVDFYTSITRARFEELCQDLFRSTMEPVERVLRDAKIDKSSVHEIVLVGGSTRIPKIQKMVSDFFNGKEPNKSINPDEGVAYGAAVQAAILSGDTSSKSTNEILLLDVAPLSLGIETAGGVMTPLIKRNTTIPTKKSETFSTFSDNQPGVLIQVFEGERARTKDNNLLGKFELTGIPPAPRGVPQIEVTFDVDANGIMNVSALEKGTGKTNKIVITNDKGRLSKEEIERMLAEAEKYKAEDEAETARIGAKNGLESYAYSLKNTLSDSKVDEKLDAADKEKLKSEIDKVVAWLDDNQTATKEEYESQQKELEGVANPIMMKFYGAGGEGGAPGGFPGAGAGGPGGFPGAGAGGAAAHDDGPTVEEVD |
| 4362 | sp|Q16082|HSPB2\_HUMAN | MSGRSVPHAHPATAEYEFANPSRLGEQRFGEGLLPEEILTPTLYHGYYVRPRAAPAGEGSRAGASELRLSEGKFQAFLDVSHFTPDEVTVRTVDNLLEVSARHPQRLDRHGFVSREFCRTYVLPADVDPWRVRAALSHDGILNLEAPRGGRHLDTEVNEVYISLLPAPPDPEEEEEAAIVEP |
| 4363 | sp|A2SKM5|HTPG\_METPP | MNKQTLSFQAEVQQLLHLVTHSLYSNKEIFLRELISNASDACDKLRFEALNDAALYEDASTLEVRVSFDKEARTITIADNGIGMSADEVIANLGTIAKSGTREFVGKLSGEQAKDAQLIGQFGVGFYSGYIVADRITVESRRAGLKAEEGVRWSSAGTGDFEVENLVRAQRGTSVTLHLRDGEDEFLSAWKLKSVIGRYSDHISLPILMRGQVWDAEKSEYVTQDAWETVNKAAALWARPKSEITDAEYKSFYEQFSHDSTPPLAYTHNRVEGRSEYIQLLYLPAKAPHDLWNRDRQGGIKLYVKRVFIMDDAQALMPSYLRFVKGVIDSSDLPLNVSRELLQESRDVKAIREGSTKRVLGMLEEMAGSEDAARRDQYAAFWREFGAVLKEGVGEDHANRERLAKLLRFASTQADEGVSLADYLARMKDGQEAIYYITADTTAAARHSPQLEVFRKKGIEVLLLTDRVDEWMLSHLFEFEGKPLQSVAKGAVDLGKLQDEGEKQQAEAAAEAFKPVLEKLKDTLKERAKDVRVTTRLVDSPACLVVEDGDISGHLARLLKQAGQSAPTSLPILEVNTEHALVKRLDGSERFDDLAQVLFDQAVLAEGGQLDDPAAYVQRVNRLLV |
| 4364 | sp|Q9UBY9|HSPB7\_HUMAN | MSHRTSSTFRAERSFHSSSSSSSSSTSSSASRALPAQDPPMEKALSMFSDDFGSFMRPHSEPLAFPARPGGAGNIKTLGDAYEFAVDVRDFSPEDIIVTTSNNHIEVRAEKLAADGTVMNTFAHKCQLPEDVDPTSVTSALREDGSLTIRARRHPHTEHVQQTFRTEIKI |
| 4365 | sp|P13853|HS17C\_ARATH | MSLIPSIFGGRRTNVFDPFSLDVFDPFEGFLTPSGLANAPAMDVAAFTNAKVDWRETPEAHVFKADLPGLRKEEVKVEVEDGNILQISGERSNENEEKNDKWHRVERSSGKFTRRFRLPENAKMEEIKASMENGVLSVTVPKVPEKKPEVKSIDISG |
| 4366 | sp|P0A6H6|HSLU\_ECO57 | MSEMTPREIVSELDKHIIGQDNAKRSVAIALRNRWRRMQLNEELRHEVTPKNILMIGPTGVGKTEIARRLAKLANAPFIKVEATKFTEVGYVGKEVDSIIRDLTDAAVKMVRVQAIEKNRYRAEELAEERILDVLIPPAKNNWGQTEQQQEPSAARQAFRKKLREGQLDDKEIEIDLAAAPMGVEIMAPPGMEEMTSQLQSMFQNLGGQKQKARKLKIKDAMKLLIEEEAAKLVNPEELKQDAIDAVEQHGIVFIDEIDKICKRGESSGPDVSREGVQRDLLPLVEGCTVSTKHGMVKTDHILFIASGAFQIAKPSDLIPELQGRLPIRVELQALTTSDFERILTEPNASITVQYKALMATEGVNIEFTDSGIKRIAEAAWQVNESTENIGARRLHTVLERLMEEISYDASDLSGQNITIDADYVSKHLDALVADEDLSRFIL |
| 4367 | sp|Q8FBC0|HSLU\_ECOL6 | MSEMTPREIVSELDKHIIGQDNAKRSVAIALRNRWRRMQLNEELRHEVTPKNILMIGPTGVGKTEIARRLAKLANAPFIKVEATKFTEVGYVGKEVDSIIRDLTDAAVKMVRVQAIEKNRYRAEELAEERILDVLIPPAKNNWGQTEQQQEPSAARQAFRKKLREGQLDDKEIEIDLAAAPMGVEIMAPPGMEEMTSQLQSMFQNLGGQKQKARKLKIKDAMKLLIEEEAAKLVNPEELKQDAIDAVEQHGIVFIDEIDKICKRGESSGPDVSREGVQRDLLPLVEGCTVSTKHGMVKTDHILFIASGAFQIAKPSDLIPELQGRLPIRVELQALTTSDFERILTEPNASITVQYKALMATEGVNIEFTDSGIKRIAEAAWQVNESTENIGARRLHTVLERLMEEISYDASDLSGQTITIDADYVSKHLDALVADEDLSRFIL |
| 4368 | sp|A9W0F3|HSLU\_METEP | MTTFSPREIVSELDRFIVGQKDAKRAVAIALRNRWRRQQLKGPLRDEVAPKNILMIGPTGCGKTEIARRLARLAGAPFLKIEATKFTEVGYVGRDVEQIVRDLVEVGIGLTREEKRKAVKAKAEAAAESRILDALVGPTASQATRESFRKKLRASELDDKEVEIELAPSGSQGLPMFEIPGMPGASMGAINISDMLGKALGGQRGKPRRITVAEAYAPLIAEESDKLVDDDALTREAIREVEDNGIVFLDEIDKICAREGRSGADVSREGVQRDLLPLIEGTTVATKHGPVKTDHILFIASGAFHVSKPSDLLPELQGRLPIRVELQPLTVEDFKQILTATEASLIKQTVALMETEGVTLDFTEDAIDALARVAVEVNGSVENIGARRLQTVLERVIDEISFTATDRSGETVPIDAAYVRDRVEDLAANADLSRFIL |
| 4369 | sp|Q9I3C5|HTPG\_PSEAE | MSVETQKETLGFQTEVKQLLHLMIHSLYSNKEIFLRELISNASDAADKLRFEALANPELLEGGAELKIRVSFDKEANTVTLEDNGIGMSREDVVTHLGTIAKSGTADFLKNLSGDQKKDSHLIGQFGVGFYSAFIVADKVDVYSRRAGQPASEGVHWSSKGEGEFDVATIDKPERGTRIVLHLKKGEEEFADGWRLRNVIKKYSDHIALPIELPKEFHGEEADKPAEPEWETVNRASALWTRPRAEVKDEEYQEFYKHVAHDFENPLSWSHNKVEGKLEYTSLLYVPGRAPFDLYHREAPRGLKLYVQRVFIMDQADEFLPLYLRFIKGVVDSNDLSLNVSREILQKDPVIDSMKSALTKRVLDMLEKLAKNEPEQYKTFWKNFGQVLKEGPAEDFGNKEKIAGLLRFASTGDDSGEQSVALADYIGRMKEGQDKIYYLTGESYSQVKNSPHLEVFRKKGIEVLLLTDRIDEWLMSYLPEFDGKQFVDVARGDLDLGSLDSEEDKKAQEEVAKSKEGLIERLKKVLDEQVSEVRVSHRLTDSPAILAIGEQDLGLQMRQILEASGQKVPDSKPIFEINPQHPLIEKLDAEPDEDRFGELSHILFDQAALAAGDSLKDPGAYVRRLNKLLVELSA |
| 4370 | sp|P46587|HSP72\_CANAL | MSKAVGIDLGTTYSCVAHFANDRVEIIANDQGNRTTPSFVAFTDTERLIGDAAKNQAAMNPANTVFDAKRLIGRKFDDHEVQGDIKHFPFKVVDKASKPMIQVEYKGETKTFSPEEISSMILGKMKETAEGFLGTTVKDAVVTVPAYFNDSQRQATKDAGTIAGLNVMRIINEPTAAAIAYGLDKKSEAEKNVLIFDLGGGTFDVSLLSIEDGIFEVKATAGDTHLGGEDFDNRLVNFFIQEFKRKNKKDISTNQRALRRLRTACERAKRTLSSSAQTSIEIDSLYEGIDFYTSITRARFEELCADLFRSTLEPVDKVLSDAKIDKSKVDEIVLVGGSTRIPKVQKLVSDYFNGKEPNRSINPDEAVAYGAAVQAAILSGDTSSKTQDLLLLDVAPLSLGIETAGGIMTKLIPRNSTIPTKKSETFSTYADNQPGVLIQVFEGERAQTKDNNLLGKFELSGIPPAPRGVPQIEVTFDIDANGILNVSALEKGTGKTQKITITNDKGRLSKEEIEKMVSEAEKFKEEDEKEASRVQAKNQLESYAYSLKNTLGEEQFKSKLDASEIEEVTKAADETISWLDANQTATQEEFADQQKELESKANPIMTKAYQAGATPSGAAGAAPGGFPGGAAPEPSNDGPTVEEVD |
| 4371 | sp|Q11CL4|HSLU\_CHESB | MSNFSPREIVSELDRYIIGQKEAKRAVAIALRNRWRRQQLEPGLREEVMPKNILMIGPTGVGKTEISRRLAKLAGAPFVKVEATKFTEVGYVGRDVEQIVRDLVEVAIALTREKMREGVEARAHLNAEERVLEALVGRTASPATRDSFRQKLRSGELDDKEIEIQVADAGGGMGSFEIPGMPGANIGVLNINDMLQKAMGGGRTKTVKTTVKDSYKFLINDESDKLLDQDEVVRRALSSAENDGIVFIDEIDKIASREGGMGAGVSREGVQRDLLPLVEGTTVATKYGPVKTDHVLFIASGAFHVAKPSDLLPELQGRLPIRVELRALEKEDFRRILTETEASLIKQYIALMETEGVELEFTEDAIVRLAEVAVDLNASVENIGARRLQTVMERVLDEISYNAPDRSGSKMVIDAAYVDQHVGDLAKNTDLSRFIL |
| 4372 | sp|Q4UJB0|HSPC3\_RICFE | MNTYLSEITNLIYYINLKEVCMLYNNIKSYLLSGITVILLTGHPVIAADNVSKPDNKSQTAYLQHPPDLRPFSIFDYYLDNMFEHKLSAYSSSAIRTKFITQDKQYILVLEVPGYDKSQIKVKVNSNKLFITGNVEQNNKSEASDDYTKRNFNYVVSLYEDVDQNNISSNLKNGILTITLPRIEVKEKDAKEIPIQ |
| 4373 | sp|Q9DAM3|HSPB9\_MOUSE | MQRVGSSFSTGQREPGENRVASRCPSVALAERNQVATLPVRLLRDEVQGNGCEQPSFQIKVDAQGFAPEDLVVRIDGQNLTVTGQRQHESNDPSRGRYRMEQSVHRQMQLPPTLDPAAMTCSLTPSGHLWLRGQNKCLPPPEAQTGQSQKPRRGGPKSSLQNESVKNP |
| 4374 | sp|O14558|HSPB6\_HUMAN | MEIPVPVQPSWLRRASAPLPGLSAPGRLFDQRFGEGLLEAELAALCPTTLAPYYLRAPSVALPVAQVPTDPGHFSVLLDVKHFSPEEIAVKVVGEHVEVHARHEERPDEHGFVAREFHRRYRLPPGVDPAAVTSALSPEGVLSIQAAPASAQAPPPAAAK |
| 4375 | sp|O88600|HSP74\_RAT | MSVVGIDLGFQSCYVAVARAGGIETIANEYSDRCTPACVSFGPKNRSVGAAAKSQVISNAKNTVQGFKRFHGRAFSDPFVEAEKSNLAYDIVQLPTGLTGIKVTYMEEERNFTTEQVTAMLLSKLKETAESVLKKPVVDCVVSVPSFYTDAERRSVMDATQIAGLNCLRLMNETTAVALAYGIYKQDLPALEEKPRNVVFVDMGHSAYQVSVCAFNRGKLKVLATAFDTTLGGRKFDEVLVNHFCEEFGKKYKLDIKSKVRALLRLSQECEKLKKLMSANASDLPLSIECFMNDIDVSGTMNRGKFLEMCDDLLARVEPPLRSILDQSKLKKEDIYAVEIVGGATRIPAVKEKISKFFGKELSTTLNADEAVTRGCALQCAILSPAFKVREFSITDVVPYPISLRWNSPAEEGSSDCEVFPKNHAAPFSKVLTFYRKEPFTLEAYYSSPQDLPYPDPAIAQFSVQKVTPQSDGSSSKVKVKVRVNVHGIFSVSSAALVEVHKSEESEEPMETDQNAKEEEKMQVDQEEPHTEEQQPQTPAENKAESEEMETSQAGSKDKKMDQPPQAKKAKVKTSTVDLPIESQLLWQLDREMLGLYTENEGKMIMQDKLEKERNDAKNAVEEYVYEMRDKLSGEYEKFVSEDDRNNFTLKLEDTENWLYEDGEDQPKQVYVDKLAELRTLGQPIKTRFQESEERPKLFEELGKQIQQYMKVISSFKNKEDQYEHLDAADMTKVEKSTNEAMEWMNSKLNLQNKQSLTADPVVKTKEIEAKIKELTNICSPIISKPKPKVEPPKEEPKHAEQNGPVDGQGDNPGTQAAEHGADTAVPSDGDKKLPEMDID |
| 4376 | sp|P0DMW0|HS71A\_RAT | MAKKTAIGIDLGTTYSCVGVFQHGKVEIIANDQGNRTTPSYVAFTDTERLIGDAAKNQVALNPQNTVFDAKRLIGRKFGDPVVQSDMKHWPFQVVNDGDKPKVQVNYKGENRSFYPEEISSMVLTKMKEIAEAYLGHPVTNAVITVPAYFNDSQRQATKDAGVIAGLNVLRIINEPTAAAIAYGLDRTGKGERNVLIFDLGGGTFDVSILTIDDGIFEVKATAGDTHLGGEDFDNRLVSHFVEEFKRKHKKDISQNKRAVRRLRTACERAKRTLSSSTQASLEIDSLFEGIDFYTSITRARFEELCSDLFRGTLEPVEKALRDAKLDKAQIHDLVLVGGSTRIPKVQKLLQDFFNGRDLNKSINPDEAVAYGAAVQAAILMGDKSENVQDLLLLDVAPLSLGLETAGGVMTALIKRNSTIPTKQTQTFTTYSDNQPGVLIQVYEGERAMTRDNNLLGRFELSGIPPAPRGVPQIEVTFDIDANGILNVTATDKSTGKANKITITNDKGRLSKEEIERMVQEAERYKAEDEVQRERVAAKNALESYAFNMKSAVEDEGLKGKISEADKKKVLDKCQEVISWLDSNTLAEKEEFVHKREELERVCNPIISGLYQGAGAPGAGGFGAQAPKGGSGSGPTIEEVD |
| 4377 | sp|P24629|HSP71\_SOLLC | MAGKGEGPAIGIDLGTTYSCVGVWQHDRVEIIANDQGNRTTPSYVGFTDTERLIGDAAKNQVALNPINTVFDAKRLIGRRFSDASVQEDMKLWPFKVIPGPGDKPMIVVTYKGEEKEFAAEEISSMVLTKMKEIAEAFLGSTVKNAVVTVPAYFNDSQRQATKDAGVISGLNVMRIINEPTAAAIAYGLDKKATSAGEKNVLIFDLGGGTFDVSLLTIEEGIFEVKATAGDTHLGGEDFDNRMVNHFVHEFKRKHKKDITGNPRALRRLRTACERAKRTLSSTAQTTIEIDSLYEGVDFYSTITRARFEELNMDLFRKCMEPVEKCLRDAKMDKSTVHDVVLVGGSTRIPKVQQVAMTNFFNGKELCKSINPDEAVAYGAAVQAAILSGEGNEKVQDLLLLDVTPLSLGLETAGGVMTVLIPRNTTIPTKKEQVFSTYSDNQPGVLIQVFEGERRARTRDNNLLGKFELSVIPPAPRVVPQITVCFDIDANGILNVSAEDKTTGQKNKITITNDKGRLSKEEIEKMVQEAEKYKAEDEELKKKVEAKNSLENYAYNMRNTVKDEKIGSKLSSDDKKKIEDAVDQAISWLESNQLAEVDEFEDKMKELEGICNPIIAKMYQGAGGDAGVPMDDDAPPSGGSSAGPKIEEVD |
| 4378 | sp|A1VDW3|HSLU\_DESVV | MSTLTPREIVSELDRFVVGQEKAKRMVAVAMRNRWRRQRLEPSLRDEVAPKNIIMMGPTGVGKTEIARRLARLCGAPFIKVEATKYTEVGYVGRDVESMVRDLMEIGVSLIRDEEATRVRARAEAAAEERLLDLLLPQSPADGGETRQSTRDKLRGLWRQGHLDDREVDMEVEESTKGPQMDIFAMPGMESMGNQFRDLMGKAFPARRKMRKMKLREAWNLLVDEEASRLLDQDKVVDIARERVEQTGIIFIDELDKVASGEGTHRTTDISREGVQRDLLPIVEGSVVNTKYGMVRTDHILFIAAGAFHFSKPSDLIPELQGRFPLRVELDALGRDEFYRILTEPHNALTRQYAALLATEGVTVSFTDDGLREIAAFAEEVNEETENIGARRLYTMMERILADISFDAPDRPGEHVTVDAAYVRTHLEDVRVDKDLSRYIL |
| 4379 | sp|A1RIQ1|HTPG\_SHESW | MSQQETHGFQTEVKQLLHLMIHSLYSNKEIFLRELVSNAADAADKLRYLALTNDALYEGDGELRVRISADKDKGTVTIEDNGVGMTRDGVIEHLGTIAKSGTAEFFKNLSGEASKDSQLIGQFGVGFYSAFIVAKKVTVRTRAAGHKADEAVLWESEGEGSFTVETITKASRGTEITLHLRDEEKEFADDWRLRSIITKYSDHISVPVEMWQEGTPERDGPDGEKIPATEGYWKVMNKATALWMRNKSEISDEEYQEFYKHISHDYTDALLWSHNRVEGKQEYTNLLYIPSKAPWDLWNRDRKHGLKLFVQRVFIMDDAEQFMPSYLRFVQGLIDSNDLPLNVSREILQDNHITKAMRTGITKRVLGMLEKLAKDDAEKYQQFWAEFGQVLKEGPAEDFANRERIAGLLRFASTHTGSAAPTVSLDDYISRMKEGQTKIYYIVADSYDAAANSPHLELLRKKDIEVLLMSERIDEWLINHLTEYKEKQLHSVTRGELELGELEDAAEKEAQEKLAEESAPLIERIKAALGTKVADVKVTSRLTDTPACVVTGEGEMSTQMIKLMQAAGQPVPEVKPTFEVNPAHPLVSRLNDLQDETAFADWSNLLLQQAQLSEKGSLADPSAFIKLMNQMLLANMK |
| 4380 | sp|A4X7S0|HTPG\_SALTO | MSSETLEFQAEARQLLQLMVHSIYSNKDVFLRELISNASDALDKLRLASLRDKDLDVDTADLHIAIEIDPDARTLTVRDNGIGMSRDEVVQVIGTIAKSGTAELLRTLRESADAETSQELIGQFGVGFYAAFMVADRVVLVTREAGATDGTRWESSGEGTYTIASATDAPQGTAVTLHLKPADSEDNLHDYATEWTVRQIVKRYSDFIAHPIRMAVEQPGTDGGESTTEVQTLNSMKALWARSRDEVEPAEYHEFYKHVSHDWADPLEVVHMRGEGTFEYEALLFLPTHAPLDLFSPQGRRGVQLYVKRVFIMDDCEALMPGYLRFVKGVVDAHDLSLNISRELLQQDRQIQVVRRRLVKKILATVKELKANQPEKYRTFWTEFGAVVKEGLIDDTENRDSLLEILSVASTHDPAEPTDLADYVTRMKDGQTDIYYATGENRSTIENSPHMEAFRAKGFEVLLLTDPVDEVWVERVGEYEGKTLRSVAKGQVDLDTEEERSAAEAERERQRTEYADLLTWLSSTLADQVREVRLSARLTTSPACVVGDAHDVTPTLEKMYRAMGHEVPQVKRILELNPTHPLVSGLRKAREQGVTEESLKETAELLYGMALLAEGGELADPSHFTRILAERLARTL |
| 4381 | sp|Q66CE1|HSPQ\_YERPS | MIASKFGIGQQVRHSLHGYLGVVIDIDPEYSLAPPEPDEVANNKTLRSSPWYHVVIEDDDGQPVHTYLAEAQLTYEDVDAHPEQPSLDELAASIRHQLQAPHLRN |
| 4382 | sp|Q8SQR8|HSP7F\_ENCCU | MEFVGIDIGNYKTVIASSKENGKVYGDEQGKRSIRTVMELSTPVRRFGNGVTNDVEQSLDLRSRSFRDALEDKKGWGNLAMFMKYIDRVVKKNTPTHPPICMAVPAYFKERERRILVDIANTMDFKLEGLITDISAIAMFACVRRENMPSEFLLFDFGFSKTTAGLFSFEKNVLKPLYMKTVRVGSMQFDEKLIDIIVEKHSLEKSRLVREKIKRNLDKIKTTLNSTKCCNIQLFITENPLEVIITQEEYRNAVKSYLSDLDSFVSSVIKETEFNGLVEVVGGNSISFLIKEMLRDKVEYQVTLDVSDSTAIGAALGMACMSLRTRYSLHDIVGREISIRIQGEDVSPTVIFKSTELVEGNPKIVTYNRKESFVLEILEDGEVISTLNVVKGETKETKAIHVSFSIGKFGTVCVNSVECEESVDYEYKPFRISDIDLDDIKALEMKYRDGELGLERIGTMRNELETMAVGLGDALYNKFGKITNDEELNTVREVAMDLFDMPQSETVGQEEEVRNTILSKLEFISKKLSDYRDAAVEDLKKHKDMINEFRKEYGSVFTPSFYKLQGLLYKVDEYLKDFDLNLFNVKLFDESFIMEIKGDIQKYLEKAKLEIEEKRKEEERKSKKENAQEGTSSKPESKEESEAKEDNDEESDVASIDE |
| 4383 | sp|P0C938|HTPG\_PORGI | MSKKGTIGVTSDNIFPVIKKFLYSDHEIFLREIVSNAVDATQKLKTLTSVGEFKGETGDLRVTVSVDEVARTITVSDRGVGMTEEEVEKYINQIAFSSAEEFLEKYKDDKAAIIGHFGLGFYSAFMVSERVDVITRSFREDATAVKWSCDGSPEYTLEPADKADRGTDIVMHIDEENSEFLKKEKIEGLLGKYCKFLTVPIIFGKKQEWKDGKMQDTDEDNQINDTHPAWTKKPADLKDEDYKEFYRSLYPMSEEPLFWIHLNVDYPFNLTGILYFPKIKNNLDLQRNKIQLYCNQVYVTDEVQGIVPDFLTLLHGVIDSPDIPLNVSRSYLQSDANVKKISSHITKKVADRLEEIFKNDRPTFEEKWDSLKLFVEYGMLTDEKFYERAAKFFLFTDMDGHKYTFDEYRTLVEGVQTDKDGQVVYLYATDKHGQYSHVKRASDKGYSVMLLDGQLDPHIVSLLEQKLEKTHFVRVDSDTINNLIRKEERAEVKLSDTERATLVKLFEARLPRDEKKHFNVAFESLGAEGEAILITQAEFMRRMRDMAQLQPGMSFYGELPDSYNLVLNTDHPLIDRVLSGEKESVEPSLTELRAKIAELKAEEAKLLDEEKGKKPEEIPVATKEAKENNAVEQAKTEGSINDQLTKYAQDNELIGQLIDLALLGSGLLTGEALAEFIRRSQRLL |
| 4384 | sp|Q8SSB1|HSP7B\_ENCCU | MSEEKAKSNTSRAIGIDLGTTFSCVAGYISGKVEVITNQDGERTTPSVVSFDENNCTVVGTAARNMVGSDPMSVIFDAKRMIGREFDDPKIQNAIKGWPFKVVRYNHREKREEPNKVSEGSNSYDNIAIKITRNGKTNYYAPVEISGKVLLYLKNAAEARLGGTVDSAVVTVPAYFEEPQKDVTKAAATIAGFDPNKVRLLAEPTAAAMAYGHIQTQKNANFSAKEDVLVFDLGGGTFDVSLLDFEFNGAAGSLGIVKAIDGDTFLGGQDFDNLLINYCISEFLKKNSSIKQSDLKESALLRLRAECTRVKAVLSSATSSAIYVPCFHMTDDLNVQITRARFELLCDHLFRRCMERTKGCLLRSAGVPEVEYSADGSKLLLNPSLEKTLNEVKNNISKVLLVGGSSRIPKIKALLAEYFGAHKVIEPVNADEAVAYGAAYQAASIYSDAVDAGSSLLLIDCVPLNLSIETAGGVATALIHCGDNIPIKKTETFTTYEDNQTAVTINVYEGNRAMCKDNKKIGSFNLDGIIAAPRGVPKIEVTFDVDHNGILIVTAQDKQTGKENQIKVTNSQNRLSQEEIERMTKEARDNEQRDNETKEKMGKRMAFDQAISSFKAFVEKANNISEEKKSESLRVIKENEEWLSNAQRPEDFEVEELERRSNDFQSFTSDIMKDVGMGGAPAA |
| 4385 | sp|B7MIC0|HSPQ\_ECO45 | MIASKFGIGQQVRHSLLGYLGVVVDIDPVYSLSEPSPDELAVNDELRAAPWYHVVMEDDNGLPVHTYLAEAQLSSELQDEHPEQPSMDELAQTIRKQLQAPRLRN |
| 4386 | sp|Q5BD77|HOGA1\_EMENI | MANRPLVPGVYVPTVAFFAENEDVDVATVEKHAAYLAKSGVAGIVVQGSNGEAVHLDREERNLITSATRHALDSVGATSMPVIVGTGAPSTRETINLCKDAAAAGGDYVLVLPPSYYKSLVSSAALLDHFRAVADASPIPVLIYNFPGASAGLDLSSDDILALSSHPNIIGTKLTCGNTGKLTRIVAQAGPSFLTFGGSCDFTLQTLIGGGAGVIAGTANIIPRACVRIMELYRAGRVEEAQKVQAIVARADWLAIKGGFVAVKSALQSYRGYGQQPRRPCVAPSSEEAAALKEAFSESIELERQLESQ |
| 4387 | sp|B2U7X3|HSLU\_RALPJ | MSETMTPSEIVSELDKHIIGQHKAKKAVAVALRNRWRRQQVGDPLRQEITPKNILMIGPTGVGKTEIARRLAKLADAPFIKIEATKFTEVGYVGRDVDTIVRDLAEMAVKQTRESEMKKVRAKAEDAAEDRILDVLIPPPRDIGFAQPEEKDSTARQTFRKKLREGQLDDKEIELEVSAGAPSMDIMGPPGMEDMTEQIRSMFAGLGQGKKNRRKMKVSEAFKLLIDEEAAKLVNEDELKQKAVANVEQNGIVFLDEIDKIASRSEYGGGEVSRQGVQRDLLPLVEGTTVNTKYGMIKTDHILFIASGAFHLSKPSDLIPELQGRFPIRVELDSLSVEDFRAILTQTDASLTKQYQALLKTEGVDLVFAEDGIRRLAEIACSVNEKVENIGARRLYTVMERLLEDLSFHAHKSSGETVTIDAAYVDERLSELSGNEDLSRYVL |
| 4388 | sp|Q98JB6|HTPG\_RHILO | MTTDTKATETRAFEADVSRLLHMMVHSVYSDKDVFLRELISNAADACEKLRFEAVSRPELLGDDPKPRISISADPDNKEITVEDNGIGMSRDDMAEALGTIARSGTRAFIERVGSGTEDTQLIGQFGVGFYSAFMVADRVDVISRLAGSEEAWRWSSDGKGSYEIAPAPLEAAPRRGTRVVLHLMDDAVSYTGSYRLEQLAKSQSGHVPVPITLIEKPGAEARDIADGTALWVRPKSEIKPEEYTDFYRSVAGQYDEPAATIHFRAEGRQEYSVLAFVPGSRPFDLFDQDRKGRMKLYVRRVFITDDADLLPRYLRFVRGLVDSADLPLNVSREMIQESPLLASIRKGLTNRVLGDLAKLAENEAEAYAKVWENFGVVLKEGLYEDYERREQLLKLARFHSTASGEGWRGLADYVAAMKEGQKAIFFMAGDDRARLEASPQLEGFKARGIEVLLLTDPVDSFWVTMAPDFDGKPFKSVTQGVAELSDIPLLDDAKKPDTAAAPEVDGFLAFVKSALGDAVSDVKASDRLTESAVCLVAPEHGPDRQFERLMNAAGRLDKAAKPILEINPRHERVLALAGLGDEDQAFKDDAAHLLYDEARVLDGDKPADARAFSERLARLIARGIAKG |
| 4389 | sp|Q95661|HS21C\_SOLLC | MAYTSLTSSPLVSNVSVGGTSKINNNKVSAPCSVFVPSMRRPTTRLVARATGDNKDTSVDVHHSSAQGGNNQGTAVERRPTRMALDVSPFGVLDPMSPMRTMRQMIDTMDRLFEDTMTFPGRNRASGTGEIRTPWDIHDDENEIKMRFDMPGLSKEDVKVSVENDMLVIKGEHKKEEDGRDKHSWGRNYSSYDTRLSLPDNVVKDKIKAELKNGVLFISIPKTEVEKKVIDVQIN |
| 4390 | sp|P58482|HTPG\_YERPE | MKGQETRGFQSEVKQLLHLMIHSLYSNKEIFLRELISNASDAADKLRFRALSNPELFEGDGELRVRLSFDKEKRTLTLSDNGIGMTRDEVIDNLGTIAKSGTKAFLESIGSDQAKDSQLIGQFGVGFYSAFIVADKVTVRTRAAGAPADTGVFWESAGEGDYTIADITKDERGTEITLHLREGEDEYLDDWRLRSVISKYSDHIALPVEIQVKNEEDGTVTWEKINKAQALWTRGKAEISDDEYKAFYKHIAHDFTDPLSWSHNRVEGKQEYTSLLYIPAQAPWDMWNRDHKHGLKLYVQRVFIMDEAEQFMPNYLRFVRGLIDSNDLPLNVSREILQDSRITQNLRSALTKRVLQMLEKLAKDDAEKYQQFWQQFGMALKEGPAEDGSNKETIAKLLRFASTHTDSSAQTVSLEDYVSRMAEGQEKIYYITADSYAAAKSSPHLELFRKKGIEVLLLSDRIDEWMMSYLTEFEGKAFQSVSKADDSLNKLADEENPEQQEAEKALEPFVERVKTLLGERVKDVRLTHRLTDTPAIVTTDADEMSTQMAKLFAAAGQQAPEVKYIFELNPDHGLVKRAAEVTDDTQFAQWVELLLDQALLAERGTLEDPNQFIRRMNQLLTA |
| 4391 | sp|Q1RIV1|HTPG\_RICBR | MKQEKKKFDAEVGKILNLMIHSLYSNKEIFMRELISNASDACDKLRYLSQSEAELVAGDSNFKITVKGDKNNGQVIIRDNGIGMNKEDLIENLGTIARSGTANFLKNLSGDSKKDNMLIGQFGVGFYSSFMVADKVTVTSRKAGEDKVYVWESEGEGEYIVSSSDREFSRGTEIALHIKKEEDSFLDHFRLKHIVKSYSDHIAVPIYFFDEGDNNEIQLNSASALWTRSKSEITEEQYKEFYKSLSYAVDDPWVTMHNKNEGAIEFTNLLFIPSSKTYDLFHPDRKRRVKLYIKRVFISDENIDLIPSYLRFLRGVVDSEDLPLNISRESLQHNNVLEKIKNAITKRVLGELKKKKEDSPDEYNNFWANFGGALKEGLCEATTDHEKLLEVCIFRSALHNKMISLDEYIKGFKEGQNTIYYLSGDNPDKLLSSPQIEGLLSKNIDVLLFTDTVDDFWVNVNSEYKGHTIKSATRSDIDVDQATSSSEEKNKDDKKSDDEYKSLTDYFKEVLGILVKDVKISKKLTSSPACLAVSEAAMDIRMERFLIEQKQIANASAKNLELNPKNKIIEKIFNDLKANNKNNEELVKLIFDQACILEGEPVADTGAFSKRLNDIVQKAIL |
| 4392 | sp|A1S2P4|HSLU\_SHEAM | MSEMTPREIVHELDAHIIGQQKAKRSVAVALRNRWRRMQLDAALRHEVTPKNILMIGPTGVGKTEIARRLAKLANAPFIKVEATKFTEVGYVGKEVEQIIRDLTDTAIKLTREVEMKKCRTRAEEAAEERVLDALLPRPKNDWDNNSDDNSSSRQIFRKKLREGQLDDKEIEIDIAGPQIGVEIMSPPGMEEMTNQLQSLFQNMGQAPAKRKKMKIKEALKQLVDEEAAKLVNQEDLKEKAIELVEQHGIVFIDEIDKICKRGETSGPDVSREGVQRDLLPLVEGCTVNTKHGMVKTDHILFIASGAFQMSKPSDLIPELQGRLPIRVELDALTASDFKRILTEPHASLTEQYVALMATEGVTIEFTETGIDRIAQAAWQVNERTENIGARRLHTVMERLMEDISFEASDKSGSKFTIDADYVNAHLDNLVQDEDLSRFIL |
| 4393 | sp|Q67TP9|HSFB1\_ORYSJ | MAAAEAAAAVGKQQQKGGGGRGGGGGGPAPFLTKTNQMVEESATDEVISWGKEGRSFVVWKPVEFARDLLPLHFKHCNFSSFVRQLNTYGFRKVVPDRWEFANGNFRRGEQGLLSGIRRRKATTPQSSKSCGSGVNVAFPPPLPPLPPEPSATTSSGNDRSSSSASSPPRADITSENEQLRKDNQTLTMELARARRHCEELLGFLSRFLDVRQLDLRLLMQEDMRAAAGGVGGEQRVQEHAREEKCVKLFGVLLDDTHGAATRKRARCEEAAASERPIKMIRIGEPWVSVPSSGPARCGGDN |
| 4394 | sp|B4TSJ1|HSPQ\_SALSV | MIASKFGIGQQVRHSLLGYLGVVVDIDPEYSLDEPSPDELAVNDELRAAPWYHVVMEDDDGQPVHTYLAEAQLRSEMRDEHPEQPSMDELARTIRKQLQAPRLRN |
| 4395 | sp|A9MI34|HSLU\_SALAR | MSEMTPREIVSELNKHIIGQDNAKRSVAIALRNRWRRMQLDEELRHEVTPKNILMIGPTGVGKTEIARRLAKLANAPFIKVEATKFTEVGYVGKEVDSIIRDLTDAAVKMVRVQAIEKNRYRAEELAEERILDVLVPPAKNNWGQTEQQQEPSAARQTFRKKLREGQLDDKEIEINLAAAPMGVEIMAPPGMEEMTSQLQSLFQNLGGQKQKPRKLKIKDAMKLLVEEEAAKLVNPEELKQDAIDAVEQHGIVFIDEIDKICKRGETSGPDVSREGVQRDLLPLVEGCTVSTKHGMVKTDHILFIASGAFQVAKPSDLIPELQGRLPIRVELQALTTSDFERILTEPNASVTVQYKALMATEGVNIEFTDSGIKRIAEAAWQVNETTENIGARRLHTVLERLMEEISYNASDLHGQNITIDAEYVSKHLDALVADEDLSRFIL |
| 4396 | sp|Q05931|HSP7Q\_YEAST | MLKSGRLNFLKLNINSRLLYSTNPQLTKKVIGIDLGTTNSAVAYIRDSNDKKSATIIENDEGQRTTPSIVAFDVKSSPQNKDQMKTLVGMAAKRQNAINSENTFFATKRLIGRAFNDKEVQRDMAVMPYKIVKCESNGQAYLSTSNGLIQSPSQIASILLKYLKQTSEEYLGEKVNLAVITVPAYFNDSQRQATKDAGKLAGLNVLRVINEPTAAALSFGIDDKRNNGLIAVYDLGGGTFDISILDIEDGVFEVRATNGDTHLGGEDFDNVIVNYIIDTFIHENPEITREEITKNRETMQRLKDVSERAKIDLSHVKKTFIELPFVYKSKHLRVPMTEEELDNMTLSLINRTIPPVKQALKDADIEPEDIDEVILVGGMTRMPKIRSVVKDLFGKSPNSSVNPDETVALGAAIQGGILSGEIKNVLLLDVTPLTLGIETFGGAFSPLIPRNTTVPVKKTEIFSTGVDGQAGVDIKVFQGERGLVRNNKLIGDLKLTGITPLPKGIPQIYVTFDIDADGIINVSAAEKSSGKQQSITVIPNSGLSEEEIAKLIEEANANRAQDNLIRQRLELISKADIMISDTENLFKRYEKLISSEKEYSNIVEDIKALRQAIKNFKANENDMSIDVNGIKKATDALQGRALKLFQSATKNQQNQGK |
| 4397 | sp|O02192|HSP83\_DROAV | MPEEAETFAFQAEIAQLMSLIINTFYSNKEIFLRELISNASDALDKIRYESLTDPSKLDSGKELYIKLIPNKTAGTLTIIDTGIGMTKSDLVNNLGTIAKSGTKAFMEALQAGADISMIGQFGVGFYSAYLVADKVTVTSKNNDDEQYIWESSAGGSFTVRADNSEPLGRGTKIVLYIKEDQTDYLEESKIKEIVNKHSQFIGYPIKLLVEKEREKEVSDDEADDDKKEDEKKEMDTDEPKIEDVGEDEDADKKDKDAKKKKTIKEKYTEDEELNKTKPIWTRNPDDISQEEYGEFYKSLTNDWEDHLAVKHFSVEGQLEFRALLFIPRRTPFDLFENQKKRNNIKLYVRRVFIMDNCEDLIPEYLNFIKGVVDSEDLPLNISREMLQQNKVLKVIRKNLVKKTMELIEELTEDKENYKKFYDQFSKNLKLGVHEDSNNRAKLADFLRFHTSASGDDFCSLSDYVSRMKENQKHVYFITGESKDQVSNSAFVERVKARGFEVVYMTEPIDEYVIQHLKEYKGKQLVSVTKEGLELPEDDAEKKKREEDKAKFESLCKLMNAILDNKVEKVVVSNRLVDSPCCIVTSQFGWSANMERIMKAQALRDTATMGYMAGKKQLEINPDHPIVETLRQKADADKNDKAVKDLVILLFETSLLSSGFSLDSPQVHASRIYRMIKLGLGIDEDEPMTTEDAQSAGDAPSLVEDTEDASHMEEVD |
| 4398 | sp|Q02ZQ9|HRCA\_LACLS | MITERQRQILNLIVSLYAKDHTPIGSKSLLDSIQASSATIRNDMKALERLGLIQKEHTSSGRIPSVSGYKYFVENVIQLEEFSQNDLFKVMKAFDGDFYRLSDLFKTAAKSLSELTGLTSFVLNAPQRDQQLVSFEMVILDNHSVLSVITLGTGEVRTNQFILPKSMTEADLAVFSNLVKERLVGKKVIDIHYTLRTEIPQIVQRYFKVTSEVLQLFESIFDDLFKEHLTVAGRKNIFDYATDNLAELYKLFSDDERMLHEIREITNNDEMRAVKFDNDEKFMKNLTIISQKFVIPYRGFGTLTVVGPVEMDYQRTLSVLDLVAKVLTMKLSDYYRYLDGNHYEISK |
| 4399 | sp|Q8FNF4|HRCA\_COREF | MASATEKRRYEVLRAIVADYIESQEPVGSKALLERHKLNVSSATIRNDMSVLESDGYIVQEHASSGRVPTEKGYRLFVDSIHDIKPLSLAERRAILGFLEGGVDLEDVLRRSVQLLSQLTHQAAVVQLPTLKTARVKHCEVVSLSPVRLLLVLITDTGRVDQRNVELDEPLEADQVTVLKDLLNGALAEKTLTDASEALQELSRNAPSDIRSTMEKCSGVLVATLVEQPSDRLILAGASNLTRLTRETAASVPMVLEALEEQVVMLKLLSNVTDLDHVTVHIGEENEDLQLRSASVVTTGYGSAGNTLGGLGVVGPTYMDYPGTISKVSAVARYVGRVLAGE |
| 4400 | sp|Q145F6|HRCA\_PARXL | MLDPRAQTLLKTLIERYIAEGQPVGSRTLSRYSGLELSPATIRNVMSDLEDLGLVISPHTSAGRIPTPRGYRLFVDTMLTVESAADEEAVMRTVKTTLQAGEPQKIVAAAASVLSNLSQFAGVVLTPRRSHVFKQIEFMRLSDKRILLIIVTPEGDVQNRIMATQRDFSPSQLVEASNYINAHFAGLSFDDVRRRLREEIDELRGDMTTLMHAAVTASTDEADTGETVLISGERNLLEVADLSSDMARLRKLFDVFDQKTSLLQLLDVSSHAAGVQIFIGGESNLVPIEEMSVVTAPYEVNGKIVGTLGVIGPTRMAYNRVIPIVDITARLLSLTLSQQ |
| 4401 | sp|Q1D802|HSLV\_MYXXD | MFHGTTILCVRRDGKVAIASDGQVSLEKTVMKNTAKKVRRLGEGQVLAGFAGSTADAFTLFERFEAKLKEHQKNMARACVELGKDWRTDRFLRRLEALLIVADKEKTFILSGAGDVIEPDYGIAAVGSGGPYAFAAARALMAHTQMSARDVVHQSLTIAGEIDIYTNANISIEEL |
| 4402 | sp|B0KA83|HRCA\_THEP3 | MPLDDRKKKILYAVITDYIMTAEPIGSRTIAKKYNIGLSSATIRNEMADLEEMGYLEQPHTSAGRIPSDKGYRFYVDSILRNYINNDPPISYNTREEIIAEFDEIVKKYARILANITHHTTVAKMPKLNPDRIKKIQLIPVASNKMIFLVVTDTGIVKNYLLNLCQNVDRTIFEFLNNLLNEKIAGKSEKDIFEFLQQDLRQMLGEMAFIADELINTILLSLKQLQETDIYADGTSHILDFPEYKDLGKAKNFFNLLDNKSLLNEVLEPEVDFIDVRIGSENKFEEMKDLSVIKTTYKINGRVVGTIGIIGPTRMDYRKLISEINVMTKELSNLLSSIYNDEI |
| 4403 | sp|Q98R68|HRCA\_MYCPU | MNFENKEIKLETKKTILFKNIVELYLRTGKPIGSKFLVEQDYGLGKSSATIRNMMHEFEEIGLLEKSHISSGRIPSTLGLKYYVKYLANSEDSDLKKQLKKLFFQRKLTIDETIELAAKSISEIVGLTMVTSTENSFETLKSIQLVLLDKNESIIIIVLSSGKVISKKLAMKDSIVLDDLRIAVRIFKERLIDTKVSELHEKTLALKPILKISIQNYEDILQEFIINIFDFEVSQTNNVYGKKNIILARDIKREDLTKIIKLIESTSIWQTIEDNLEEEENIKIEIRPDNSSFLSKKISIDNKIREISVVGSKKMDYAKAKSALMLIEDLVEENKKKEKGNNEDNEE |
| 4404 | sp|C5CYY5|HRCA\_VARPS | MLDDRAKLLLKTLVERYIAEGQPVGSRTLSRAPGLDLSPATIRNVMSDLEGLGLITSPHTSAGRIPTARGYRLFVDTMLTAQREHMNAPSHLPPDQPQKVIANAANLLSNLSQFVGVVMTPRRASVFKQIEFLRLSDRRLLVIIVSPDGDVQNRVIFPEADYTQSQLVEASNYINAHYAGLTIEQVRDRLQSEVEKLRGEIAALMQAAVKVSSEVLTEAQEDDVVISGERNLLSVTDFSSDMGQLRRAFELFEQKAQLMRLLDVSSKAEGVRIFIGGESQVVPIEELSIVSANYEVDGQVVGTLGVIGPTRMPYERMIQIVDITSRLVSNALSHRK |
| 4405 | sp|B8HQ19|HRCA\_CYAP4 | MQVRLNERQQQVLWATVRHYIATAEPVGSKALAEEYNLKVSAATIRNIMGALEQGGLLYQPHTSAGRVPSDSGYRIYVDYLMTPANDLSRRVEQLLSDRLNPTSISLEAVLRGAAQILATLSGYITLITLPQTLTATIRWLQLVRVETSRVMLIVVTDNYETRSALMELGDTADTEESRIERELEVLTNFLNHQLRGRSLTELANLDWQQLDREFQRHGDTLRTLLQDLLQRSQPVGSNQILISGLSEVLQQPEFSQLQQVQTILHLLEDEQDQLWPLICEWSVATDAAPITLPSQQRVRILIGSENPLEPMRMCTLVSSTYQRGSVPIGSVGVLGPTRMPYDKVIPLVEATADYLSDTLGQPA |
| 4406 | sp|Q6GGB8|HRCA\_STAAR | MITDRQLSILNAIVEDYVDFGQPVGSKTLIERHNLNVSPATIRNEMKQLEDLNYIEKTHSSSGRSPSQLGFRYYVNRLLEQTSHQKTNKLRRLNQLLVENQYDVSSALTYFADELSNISQYTTLVVHPNHKQDIINNVHLIRANPNLVIMVIVFSSGHVEHVHLASDIPFSNDKLNTISNFVTNKLTEFNQNLQDDIVSFVQSEQEEIFINKLLNTMNNHISNQSNSIYMGGKVKLIDALNESNVSSIQPILQYIESNRIAELLQDISSPNINVKIGNEIDDSLSDISIVTSQYHFDETLKGQIAVIGPTAMHYQNVIQLLNRIW |
| 4407 | sp|B7UWI1|HSCA\_PSEA8 | MALLQIAEPGQSPKPHERRLAVGIDLGTTNSLVAAVRSGVAEPLPDAQGRLILPSAVRYHAERAEVGESARAAAAEDPFNTVISVKRLMGRGLEDVKQLGEQLPYRFRQGESHMPFIETVQGLKSPVEVSADILRELRQRAETTLGGELVGAVITVPAYFDDAQRQATKDAARLAGLNVLRLLNEPTAAAVAYGLDKGAEGLVAIYDLGGGTFDISILRLTRGVFEVLATGGDTALGGDDFDHAIAGWVIEEAGLSADLDPGSQRQLLQIACAAKERLTDEASVRVAYGDWSGELSRATLDELIEPFVARSLKSCRRAVRDSGVDLEEIRSVVMVGGSTRVPRVRTAVGELFGCEPLTDIDPDQVVAIGAAIQADALAGNKRGEELLLLDVIPLSLGLETMGGLMEKVIPRNTTIPVARAQEFTTYKDGQTAMMIHVLQGERELVKDCRSLARFELRGIPPMVAGAAKIRVTFQVDADGLLGVSARELSSGVEASIQVKPSYGLTDGEIARMLKDSFDYAGDDKAARALREQQVEAQRLLEAVQSALDVDGERLLDEEERLAIAAQMDTLRELAGGSDTAAIENQIKRLSQVTDAFAARRMDATVKAALSGRRLNEIEE |
| 4408 | sp|B5YH61|HRCA\_THEYD | MRDTMLDERTKKVLYAVVESYIEKPEPVGSRYIMKKYGFDVCSATIRNIMSDLEDAGFLSQPHTSAGRVPTDKAYRFYVDYIFQSELFSQSLEIKRVIENLTKKLRKLRNNMNSLFLETTQSLSQATRYLGLALLPATEKTALHRVDFIKFKDDLVIAVVVNDKGIVKNKIIKVYPEITQKELNSLADFVNRNYHGKTIDEIRDDLIVRIKKEKIFWDRLISKILKMCQEALYFSREDVYVSGFYHIMHLPDFSDIEKLREVAKTIQDRHLLLKLFENISEDDEVKVIIGQENPVEEFRSFSIIASPYKEKDKSLGVIALVGPKRMNYQRAIMLVNAFARSLTRTLSD |
| 4409 | sp|A6U5E1|HRCA\_SINMW | MVLRNPDKKGIASALDERSGEIFRRIVESYLESGEPLGSRNLSRLLPISLSPASVRNVMSDLEDLGLIYSPHVSAGRLPTQTGLRFFVDAFMQVGNLSPEERASIERQVGPGNRDHSVENLLTEASQMLSGMSRGAGLVITTKSDPVLKHVEFIRLAPTKALAVLVGEHDQVENRIIELPAGITSAQLTEAANFVNAHLAGQTIPELRTQLEKVKETVRGELDALSQDLVERGLAIWSGSEGDGQPARLIVRGRANLLEGLEGTEDIERLRMLFDDLEKKDSLIEILNLAESGPGVRIFIGSENKLFSLSGSSLIVAPYRDSDDRIVGAVGVIGPTRLNYSRIVPMVDYTAQLMSRMSR |
| 4410 | sp|B2HM80|HRCA\_MYCMM | MGTADERRFEVLRAIVADFVATHEPIGSKSLVERHNLGVSSATIRNDMAVLEAEGYIAQPHTSSGRVPTEKGYREFVDRLDDVKPLSMVERRAIQGFLESGVDLDDVLRRAVRLLAQLTRQVAVVQYPTLSTSKVRHLEVIALTPARLLMVVITDSGRVDQRIVELGDVIDDHQLSQLRELLGQALEGKKLAAASVAVADLAGQLSGAGGLGDAVGRSATVLLESLVEHTEERLLMGGTANLTRNAADFGGSLRSILEALEEQVVVLRLLAAQQEAGKVTVRIGHETEAEQIVGTSMVSTAYGSNDTVYGGMGVLGPTRMDYPGTIASVAAVALYIGEVLGAR |
| 4411 | sp|B0CJ31|HRCA\_BRUSI | MMRPPEHQLLSSLDQRSRDIFRLIVETYLNDGDPVGSRNLSRLLPHTLSPATIRNVMSDLEHLGLIYAPHISAGRLPTQIGLRFFVDAFLEVGDLPPEERSSIEAQVRAAGTSNSVESVLTEASQVLSGLSRGAGLVLTNKTDVALKHIEFVRLEPMRALAVLVMQNGDVENRVIDLPAGISTSQLIEASNFLNAHIHGHTLSEAKSELRKLSEETRRELDQLSQELVAKGLAVWSGAGADQPARLIVRGRANLLENVHAQEDIERLRHLFDDLETKDGMVQLLDLAEAGSGVRIFIGSENKLFSLSGSSLVVAPYRDSEQRVIGALGVIGPTRLNYARIVPMVDYTAQIVSRLLR |
| 4412 | sp|P58481|HTPG\_STRCO | MTTETFEFQVEARQLLQLMIHSVYSNKDVFLRELVSNASDALDKLRLAALRDDAPDADVSDLHIELEVDKDARTLTVRDNGIGMSYDEVTRLIGTIANSGTAKFLEELREAKDAAGADGLIGQFGVGFYSGFMVADEVTLVTRHAGETEGTRWTSRGEGTYTLERIGEAPQGTAVTLHLKPADVENQLHDYTSAWKIKEIVKRYSDFITWPVRLLPEPGGDGSDGEGAEAREAETLNSMKALWARPRDEVSDDEYHELYKHIAHDWRDPLETIRLQAEGTFEYQALLFVPSHAPHDLFTQGYQRGVQLYVKRVFIMDDCEELLPPHLRFVKGVVDAQDLSLNVSREILQQDRHIRMIQRRLTKKVLSTVKDLRTSAPDRYATFWREFGAVLKEGLVTDSDNRDAILAACSFASTHDAEEPTALKDYVERMKEGQDDIYYMTGESRQAIENSPHMEAFRAKGVEVLLLTDAVDEVWVDAVGEYEGKTLRSVAKGEIDLSGTEADKSDAEKEKQGEEYAGLLGWMTEHLGEEVKEVRLSSRLTVSPACVVSDAGELTPALENMYRAMGQEVPGAKRILELNPEHQLVKSLNRAWTDRQDRAELTETAELLHALAVLAEGGRPKEPARFVQLMADRLERTL |
| 4413 | sp|B1IYQ7|IBPA\_ECOLC | MRNFDLSPLYRSAIGFDRLFNHLENNQSQSNGGYPPYNVELVDENHYRIAIAVAGFAESELEITAQDNLLVVKGAHADEQKERTYLYQGIAERNFERKFQLAENIHVRGANLVNGLLYIDLERVIPEAKKPRRIEIN |
| 4414 | sp|O83949|HTPG\_TREPA | MAQYEFQTEVSQLLTLIIHSLYSHKEIFLRELISNASDALDKLKYEALVDGTYKQLHCEARIDIAFEEDAQRLVVRDTGIGMNAEDLRANLGTIARSGTKAFLSTLTRDQKQDSNLIGQFGVGFYSAFMVASKVEVITKKAAENTVWKWTSEGQNAYTLDEVDAAAFPVLEGVAEGSAGTCVVLHLSQENSEFATRWRLEEVIKKYSDHIAFPIYLHYLQKEYDKDGAVTDTQKKVDQVNDAGALWKRPKSELKEEDYHRFYQTLTRDSTPPLLYVHTKAEGTQEYVTLFYVPAKAPFDLFHADYKPGVKLFVKRVFITDDEKELLPVYLRFVRGVIDSEDLPLNVSREILQQNRVLAAIKSASVKKLLGEFKRLAECDGKKYDEFITQYNRPLKEGLYSDYEHREQLLELVRFRTLSESVPEDGWTSFAEYVSRMKPDQKAIYYIAGNDDRVLRQSPHAESYRLQGFEVLVMSDDIDGIVMPSVSKYKEWELRAINRLGSEEELRPNEETDAAAQREQGFKPLLERLTHILSDSVKEVRLSKRLSDSVSCIVIDENDPTVQMERLMRATGQTHKSKIKPILEINASHTLVQKLKESTDEAFVEDLAFVLLDQALLIEGMDVGSSVDFVKRVNRLLARG |
| 4415 | sp|P0C054|IBPA\_ECOLI | MRNFDLSPLYRSAIGFDRLFNHLENNQSQSNGGYPPYNVELVDENHYRIAIAVAGFAESELEITAQDNLLVVKGAHADEQKERTYLYQGIAERNFERKFQLAENIHVRGANLVNGLLYIDLERVIPEAKKPRRIEIN |
| 4416 | sp|B2TUT5|IBPA\_SHIB3 | MRNFDLSPLYRSAIGFDRLFNHLENNQSQSNGGYPPYNVELVDENHYRIAIAVAGFAESELEITAQDNLLVVKGAHADEQKERTYLYQGIAERNFERKFQLAENIHVRGANLVNGLLYIDLERVIPEAKKPRRIEIN |
| 4417 | sp|Q6CYV3|IBPB\_PECAS | MRNYDLSPLLRQWIGFDKLASSMQGSQEPIDFPPYNIEKKDDNHYRITLALAGFRQSDLDIEVEGPRLTVKGSPAPSEKAVEYLHQGLVFKPFTLSFTLAEHLHVSDAHFENGLLHIDLVRDVPEALQPQRIAIGGGRPALNQQSAEDAS |
| 4418 | sp|A7ZTP1|IBPA\_ECO24 | MRNFDLSPLYRSAIGFDRLFNHLENNQSQSNGGYPPYNVELVDENHYRIAIAVAGFAESELEITAQDNLLVVKGAHADEQKERTYLYQGIAERNFERKFQLAENIHVRGANLVNGLLYIDLERVIPEAKKPRRIEIN |
| 4419 | sp|Q0SYN0|IBPA\_SHIF8 | MRNFDLSPLYRSAIGFDRLFNHLENNQSQSNGGYPPYNVELVDENHYRIAIAVAGFAESELEITAQDNLLVVKGAHADEQKERTYLYQGIAERNFERKFQLAENIHVRGANLVNGLLYIDLERVIPEAKKPRRIEIN |
| 4420 | sp|Q06704|IMH1\_YEAST | MFKQLSQIGKNLTDELAKGLADDMSPTPSEQQIEDDKSGLPKEIQAKLRKFEKYEQKYPLLLSAYKNEKLKSEKLEAVEKILAENTPISNIDDAVDTLPAFFQDLNNKNNLLNDEIKRLTKQNSEIPESASSETLKDKEEEFLKKEQNYKNDIDDLKKKMEALNIELDTVQKEKNDTVSGLREKIVALENILKEEREAKKQKEEVSISELKEELAIKNHSLEDSRMKITELEQNLSSKSTIMEEKSSELAELNITLKEKERKLSELEKKMKELPKAISHQNVGNNNRRKKNRNKGKKNKGGITTGDISEEETVDNSINTEEYDKLKENLQELQEKYKDCEDWKQKYEDIEAELKDAKELENSQLEKSAKELETLNTELIDTKKSLKEKNSELEEVRDMLRTVGNELVDAKDEIKESSSKQNEEVKTVKLELDDLRHKNATMIEAYEAKNTELRSKIELLSKKVEHLKNLCTEKEKEQTTSQNKVAKLNEEISQLTYEKSNITKELTSLRTSYKQKEKTVSYLEEQVKQFSEQKDVAEKSTEQLRKDHAKISNRLDLLKKENETLHNDIAKNSNSYEEYLKENGKLSERLNILQEKYNTLQNVKSNSNEHIDSIKRQCEELNVKLKESTKKILSLEDELNEYANIVQDKTREANTLRRLVSDSQTDDSSKQKELENKLAYLTDEKNKLEAELDLQTSRKATELQEWKHTVTELKSEIHALKLREEGLKSEVDALKHVNNDIKRKTQATSDDSDQLEQITSNLKLSLSKADEKNFELQSANEKLLNLNNELNKKFDRLLKNYRSLSSQLNALKERQYSDKSGRVSRSGSIGTLANANIDSSPANNSNPTKLEKIRSSSSLELDSEKNEKIAYIKNVLLGFLEHKEQRNQLLPVISMLLQLDSTDEKRLVMSLK |
| 4421 | sp|A7ZX32|IRAP\_ECOHS | MKNLIAELLFKLAQKEEESKELCAQVEALEIIVTAMLRNMAQNDQQRLIDQVEGALYEVKPDASIPDDDTELLRDYVKKLLKHPRQ |
| 4422 | sp|A9MQN1|IRAD\_SALAR | MMTPTIPVSPLDRLLVEGIGPHELVRRKLMCLFNSCASAGGETLPPLLTRGMPEWHGLNVGDKRVLNWFCRELRAAILRYEPRINVLRVSVKDAYHQPLALYLEAILQDEPEPLRLDITYYNGRWR |
| 4423 | sp|Q8YQ35|ISIA\_NOSS1 | MQTYDNPNIKYDWWAGNARFANLSGLFIGAHVAQAALTTLWAGAFTWFEISRYKPEIPMGEQGLILLPHLATLGFGVGVSGQVVNTYPYFVIGALHLISSAVLGAGALFHTFKGPRNLKNTTGSARKFHFEWNDPKQLGLILGHHLLFLGMAALLLVGKAMFWGGLYDATTQVVRVVNHPTLNPFVIYGYQTHFASVNNLEDLVGGHIYVGLILIGGGIWHIVKEPLPWAKKLLIFSGEAILSYSLGGIALAGFVAAYFCAVNTLAYPVEFYGAPLELKFGVTPYFADTVKLADGGYSARAWLANAHFFLAFFFLQGHLWHALRAIGVDFRQIEKSLNAISSAE |
| 4424 | sp|Q9Z2B9|KS6A4\_MOUSE | MGDEDEDEGCAVELQITEANLTGHEEKVSVENFALLKVLGTGAYGKVFLVRKTGGHDAGKLYAMKVLRKAALVQRAKTQEHTRTERSVLELVRQAPFLVTLHYAFQTDAKLHLILDYVSGGEMFTHLYQRQYFKEAEVRVYGGEIVLALEHLHKLGIIYRDLKLENVLLDSEGHIVLTDFGLSKEFLTEEKERTFSFCGTIEYMAPEIIRSKAGHGKAVDWWSLGILLFELLTGASPFTLEGERNTQAEVSRRILKCSPPFPLRIGPVAQDLLQRLLCKDPKKRLGAGPQGAQEVKSHPFFQGLDWVALAARKIPAPFRPQIRSELDVGNFAEEFTRLEPVYSPAGSPPPGDPRIFQGYSFVAPSILFDHNNAVMADVLQAPGAGYRPGRAAVARSAMMQDSPFFQQYELDLREPALGQGSFSVCRRCRQRQSGQEFAVKILSRRLEENTQREVAALRLCQSHPNVVNLHEVLHDQLHTYLVLELLRGGELLEHIRKKRLFSESEASQILRSLVSAVSFMHEEAGVVHRDLKPENILYADDTPGAPVKIIDFGFARLRPQSPAEPMQTPCFTLQYAAPELLAQQGYDESCDLWSLGVILYMMLSGQVPFQGASGQGGQSQAAEIMCKIREGRFSLDGEAWQGVSEEAKELVRGLLTVDPAKRLKLEGLRSSSWLQDGSARSSPPLRTPDVLESSGPAVRSGLNATFMAFNRGKREGFFLKSVENAPLAKRRKQKLRSAAASRRGSPVPASSGRLPASAAKGTTRRANGPLSPS |
| 4425 | sp|Q39644|LEA5\_CITSI | MARSLFKAKLLLAPVADGISLSISRRGYAAAAPLGTISRTGIMEKNDLRPAVREDSGASSAWAPDPITGYYRPENRAVEIDPAELREMLLNHKVRAH |
| 4426 | sp|Q9XXS1|LYS3\_CAEEL | MKLFALLVSITLCYSFPAPLQTNVSEPFGLLQKVSEQVIDPDYNIPEVKDAPAIPYDERNSPTHAYSVDISFHTTPSDMDCLRDQGYKSVFVRALNPIGNTYFDRNALNTINNAFEAGLGSEVYITPNINSTRSGADQISLVYQNLLANGINVRSIWIQVTSPTNWVAPMAVRIEFIQDMIRSAKNLGLSVGIYTSFYDWLEITGGWNTFSSDVFLWYWHVLSMGTDGETTPTLEDFRPFGPWRQATVKQFGQVEKLCGMIVNRNVYSTGNQHLSQIVHFSTHQENSSSEKKLIRVGGIGF |
| 4427 | sp|B3PN08|LON\_MYCA5 | MKKLPYIAIRNQLIAPYSTATVKIGRPNSLAAIQFAQTGFNGEIYIFYTKDNKMVDSIKKTSDLEEYGVKAKIKEIVEQGKLQNVVFEVEELVKVKEIYKELGKYSFTSDIFASVTEVEYSGNFDILSDYRSKAKMLIEKLSNLHDEIGSYIYGGRRGIKELEKAFSANTNISPLTHDSFNVDIWKIIDALTIEHSWKEYFAIINETNLEKNYELAINMLINAIKMGKLDEEVNSTMRGDLENQQRDFLLRERLRQIKKLLKDDEAGAKAIENMEDAEENARQYPDYVIEALKTEQNRLASMMPASPEANISKTYIDLITTLPWKKVSGELLDIDNVRKILDKHHYGLEKPKERILEFISVLTYTKKENEKNEYVPVKGEENRFIDKNLFVNKTGNFLKDRVNNIPILTLIGPPGTGKTTLAKSIAEALGRQFVKISLGGVKDESEIRGHRRTYVGALPGKIISGIKKAGVSNPVILLDEIDKMSSDFRGDPLSALLEVLDPEQNTNFQDHYLDLEYDLSKVLFIATANSFDSIPAPLYDRVEFLELSTYTLIEKTRIARTHLLSKILSLNALTEKQYQITDEVLAYIIKNYTRESGVRNLQRLLDSIARKIVVRILDKKVDKEFVIDKAIVREFLGPELYNEKGDETQPKAGVVNALAYTAYGGTSMTIEVTTFPTTAKGALNLTGQLKDVMRESATISLAYVRSNAEKFGIKDFDFENTSIHIHVPEGAIQKDGPSAGVTFTTAIISALSKKAVPNTIAMTGEITLRGKVLPIGGLKEKSLAASQIGIKTIFIPKDNEKNLIDVPEEVKKDIKFVPVEYYDEIFKYIFEAKNK |
| 4428 | sp|Q861Y1|ANGI\_RHIAV | MVMGLGLFLLVFMLGLGLTPPTLAQDNSRYRDFLTKHYDATPQGRNDRYCESMMRRRGLTSPCKDINTFIHGNSRHIKAICGDENGNPYGENLRISKSPFQVTTCNLRGGSSRPPCRYRATAGFRNIVVACENDLPVHLDQSIFRP |
| 4429 | sp|Q861Y4|ANGI\_TRAFR | MVMGLGLFLLVFMLGLGLTPPTLAQDNSRYRDFLTKHYDATPQGRNDRYCESMMRRRGLTSPCKDINTFIHGNSRHIKAICGDENGNPYRENLRISKSPFQVTTCNLRGGSPWPPCRYRATAGFRNIVVACENDLPVHLDQSIFHP |
| 4430 | sp|Q9M1S3|ARP1\_ARATH | MTTSNNVNGCFGDTKLTKVFVGGLAWDTHKEAMYDHFIKYGDILEAVIISDKLTRRSKGYGFVTFKDAKAATRACEDSTPIINGRRANCNLASLGGRLRKSPTMTSPQQGPKNGNRATPPHVGNHSQWYYPSGFTNQQHQQQNHQAVPFYGYPSAYVAPNMTFNQKVGYVGGTYMNGYYAQMQPQPQSQPQPQYYHHHMYGGGRVMVGAASPMVPFYTVYPYHQSQAIGFPQPSFSKPLSFSTPPISGTVGGESIQKKAIH |
| 4431 | sp|O30851|ASP2\_STRTR | MLNKIQQRNSDIYSMTPFNFFEDFRRNLFNDLKSNLIKTDIHETDNEYVVEAELPGIPKEDIQVNYENGVLTISGQRQIDAAIEDEKGKLIHSERSLTSVRRQYLLENVKEDEIKASYSDGILKVTLPKDSNKEIKTSIPIE |
| 4432 | sp|A3M8W8|GRPE\_ACIBT | MANEQNEQAQDIQNEQVEQSNEQTQAEGVEQANDVTVESLQAQITKLEENLKLEKARTANAVYEAQKSVERIQRESEKHKETVLEKFAKELLDSVDNLERAIQAAGDEETPVLEGVKLTLKSLLTTLEKFGVVEADTQNGFNADLHQAVGIDPNAKANEIGTVLQKGYTLNGRLLRPAMVMVGQ |
| 4433 | sp|B7IYG8|GRPE\_BACC2 | MEERNEQVVEEVKEAQVEEAVTPENSEETVEEKSEAALLQEKVDELQAKLTETEGRTLRLQADFENYKRRVQMDKQAAEKYRAQSLVSDILPALDNFERAMQVEATDEQTKSLLQGMEMVHRQLLEALTKEGVEVIEAVGKQFDPNEHQAIMQVEDSEFESNAVVEEFQKGYKLKDRVIRPSMVKVNQ |
| 4434 | sp|B8DT61|GRPE\_BIFA0 | MSDFNKDDYLNDLPDADELANGQASPDADGADAPSDTGEQLKDDMLKDAAAEQSAGEQASEESAKAAAEATADAASDGDAEGSSLTPLGQAKKEAAEYLEALQRERAEFINYRNRTKKDMDRARQQGIIDVLTAMLPGLDDIDRIREHGEMDDSFKAVAAKIDKTFEKFGVEKFGLKGEDFDPTKHEAILHKPDPEASKATVDTVVEAGYRIGDRVIRAARVVVASPQN |
| 4435 | sp|Q47XI4|GRPE\_COLP3 | MTTESTSNKEELSAEQLADDIVQQAEEQVEDQHDHAHEVISAEQEKINELELALATAQSTVADQKDSVIRAKAEVDNIRRRAAQDVEKARKFALEKFAGEMLTSVDNLERALQNIDKEDESNKGVIEGVELTLQGLITSLDKFGVKAVDPQDQPFNPELHQAMSMQEVPGVAPNTVIAVMQKGYELNGRLIRPAMVMVSKAAPTVDATA |
| 4436 | sp|Q8K9R7|GRPE1\_BUCAP | MKNKKEEKINNLKKEEKINNLKKEEKINNLKKEEKEKNDDVQNKIIDLLEIKLKKSQEKIINMQLKNHEEILKLNYRLNSDIEKSRKFSLEKVIIEFLPIIDNIERALSVIKDKKEAFYLEIINKMNFIFSLLEEILSEFNVSKINEKNISFDPEIHQAMSINYNDEIEDNHVVDVMQSGYMLHKARLLRPAMVIVSKRKNN |
| 4437 | sp|A0K4S6|GRPE\_BURCH | MENTQENPTTPSAEDIGSEKQAAQGAAPAAEAADAALAEAQAKVAELQESFLRAKAETENVRRRAQDDVSKAHKFAIESFAEHLLPVLDSLEAAVNDTSGDIAKVREGVELTLRQLTSALEKGRVVAINPIGEKFDPHQHQAISMVPAEQEPNTVVSVLQKGYTIADRVLRPALVTVAQPK |
| 4438 | sp|B2G6W2|GRPE\_LACRJ | MAKEKQEEQQKQTAPENEKAPKKDIKKEASDKKGDQTSKLKEEIADLKKQLADKDDKYLRAEAEIQNMTNRFNKERAQILKYDGQDLAKSILPVLDNLKRALAIEVVDDNGKQLKKGIQMVHDHLVKALNDHGITEIKADGETFDPTLHQAVQTVPVEEGQKPETVVNVLQAGYQLKDRVLRPAMVVVAQ |
| 4439 | sp|B1J253|GRPE\_PSEPW | MADEQLNEKDLNAEEAGAVDNGARVQELEEQLAAAKDQSLRAVADLQNVRRRAEQDVEKAHKFALEKFAGDLLPVIDSLELALAHSSAEDEQVKKIREGVELTLKMFQDTLKRYNLEAIDPHGQPFNAEHHQAMAMQESAEVEPNSVLNVFQKGYLLNGRLLRPAMVVVSKAPSAPQPSIDEKA |
| 4440 | sp|Q2NE66|GRPE\_METST | MTEEEKTKSEAEEIEQNNKEEEQEKSVEELLEEKEQEIQQYKDKLQRIHADFENFKKRSIKEKQEFVKFANEGLILKVLEAYEDLERALEVKEDKNLREGVELIYKKLTKILEDEGVEPIETKNQKFDPYKHEALMTEDNDDYENNEIIQDLQKGYTLNSKVIRYSKVKVCKK |
| 4441 | sp|A8GPC0|GRPE\_RICAH | MIDDNIENNEQTINDIAEEIVEKANPEITELKAEIEELKDRLIRTTAEIDNTRKRLEKARDEAKDYAIATFAKELLNVSDNLSRALAHKPANSDIEVTNIIAGVQMTKDELDKIFHRHHIEEIKPEIGSMFDYNLHNAISQIEHPDHEPNSIITLMQSGYKIRDRLLRPATVQVAKKS |
| 4442 | sp|A0AIS5|GRPE\_LISW6 | MSEKKNKKERLADEIEQEELNILDESEETVEEEATADALTEEQAKILELENKLDEVENRYLRMQADFENVKKRHIADRDASQKYRSQSLAEDLLPALDSFEKALATTSDQEEVKQILKGMEMVYNQILVAFEKEGIEVIPAVGEQFDPNFHQAVMQDSDENAASNEITAELQKGYKLKDRVIRPSMVKVNQ |
| 4443 | sp|C6D9J8|GRPE\_PECCP | MSSKEQKTPDEQVLDQKEAAKGQQADAAPETADVADPRDARIAELEAQLSELQQRERDNMLRVRAEADNVRRRAEMDVEKAHKFAVEKFASEMLPVIDNLERALDTADKANESLAAMIEGVELTLKSLLDAVRKFGIEVVGDVNVPFNPEVHQAMTMLPSADHQPNHVMMVMQKGYTLNGRLLRPAMVAVSKAQD |
| 4444 | sp|Q15UD4|GRPE\_PSEA6 | MSNEEQAQKDDAQPVNEAAIDATAEQADAEVEELSAEQARILELEAALAASEATLAAQKDSVMRAIADADNVRKRAEGEVDKARKFALEKFASELLPVADNLERALQVADKENEAIKPVIEGVDITLKSFVSSIEKFGMKVIDPQGETFNPEQHQAMSMQENAELPANTVMAVMQKGYELNGRLLRPAMVMVSRAPEGGVDTQA |
| 4445 | sp|Q59240|GRPE\_GEOSE | MEQEQKATQEQATYEEWTAPEPQEEKAEERGGNEPQEENAENLQQENTQAQQEALEEQPKAEQEQNDELAAANAKNCRTRSEDKRNGNRYLRLYADFENFRRRTRQEMEAAEKYRAQSLVSDLLPALDNFERALKIETENEQAKSILQGMEMVYRSVLDALKKEGVEAIEAVGKPFDPHLHQAVMQVEDSNYEPNTVVEEFQKGYKLKDRVIRPAMVKVSQ |
| 4446 | sp|A5UM85|GRPE\_METS3 | MANDKNEDQKEEETKTLQEKYDELLEELDSKNKELAKINEDLEKQKEETQEYISLSQRLQADFENFKKINEKKSKDIIKFANEPLIKNILDSYEDLERALENSKTEKELRDGVELIYSKIKDVLTKEGLEEIPAKGEKFDPFKHEALMVANDENVENGYIIDELMKGYTLKGKVIKYSKVRVCKK |
| 4447 | sp|P59332|HCHA\_SHIFL | MTVQTSKNPQVDIAEDNAFFPSEYSLSQYTSPVSDLDGVDYPKPYRGKHKILVIAADERYLPTDNGKLFSTGNHPIETLLPLYHLHAAGFEFEVATISGLMTKFEYWAMPHKDEKVMPFFEQHKSLFRNPKKLADVVASLNADSEYAAIFVPGGHGALIGLPESQDVAAALQWAIKNDRFVISLCHGPAAFLALRHSDNPLNGYSICAFPDAADKQTPDIGYMPGHLTWYFGEELKKMGMNIINDDITGRVHKDRKRLTGDSPFAANALGKLAAQEMLAAYAS |
| 4448 | sp|Q7NBE4|GRPE\_MYCGA | MANENIQIKSSLDDLKNFVQNPKSQNQKIKAVNQLMYNEFVKIETAINNINNYIENLTHRLELTNENFKTKVQEVESKAQQKINDRIEELDKRKKEEIENAKKYAIEKSIDSAINIVDQLEIALEFASLDPAVKNYVSGFKMVLNSFVNWLASVNIHRMDIKPGDKFDEKYMSASDKASDPDYPADHVCKVMKSGYKLYDRVVRHAMVAVSDGVGYVEPASSEQEQPQTPAKSTQTPPAQETASAPAKTKPTAPPTNNLNANKPPVVSNPPHQKPVQPPQSNTPGPKQPITHQVIKKS |
| 4449 | sp|Q9FUS6|GSTUD\_ARATH | MAQNDTVKLIGSWSSPYSLRARVALHLKSVKYEYLDEPDVLKEKSELLLKSNPIHKKVPVLLHGDLSISESLNVVQYVDEAWPSVPSILPSDAYDRASARFWAQYIDDKCFAAVDAVVGAKDDEGKMAAVGKLMECLAILEETFQKSSKGLGFFGGETIGYLDIACSALLGPISVIEAFSGVKFLRQETTPGLIKWAERFRAHEAVKPYMPTVEEVVAFAKQKFNVQ |
| 4450 | sp|Q9ZMW3|GRPE\_HELPJ | MKDEHNQEHDHLSPKEPESYQKAYACKEQQGEEKQEASEKEGEIKEDFELKYQEMREQYLRVHADFENVKKRLERDKSMALEYAYEKIALDLLPVIDALLGAHKSAVEVDKESALTKGLELTMEKLHEVLARHGIEGIECLEEFDPNFHNAIMQVKSEEKENGKIVQVLQQGYKYKGRVLRPAMVSIAKND |
| 4451 | sp|A8G8U9|HFQ\_SERP5 | MAKGQSLQDPFLNALRRERVPVSIYLVNGIKLQGQIESFDQFVILLKNTVSQMVYKHAISTVVPSRPVSHHSNTPSGGTSNYHHGNNPSAPQQPQQESDDAE |
| 4452 | sp|Q1I449|HFQ\_PSEE4 | MSKGHSLQDPYLNTLRKEKVPVSIYLVNGIKLQGQIESFDQFVVLLKNTVSQMVYKHAISTVVPARPVRLPSPSDAEHGDSEPGNA |
| 4453 | sp|Q9S760|HA22D\_ARATH | MDKFWTFLTALHSGAGPIVMLLYPLYASVIAMESTTKVDDEQWLAYWIIYSFLSLTELILQSLIEWIPIWYTVKLVFVAWLVLPQFQGAAFIYNRVVREQFKKHGVLRSTHSKPTKPNILHSIFPHREGHEAHSH |
| 4454 | sp|C0ZEY6|HFQ\_BREBN | MKQTINIQDTFLNHLRKENIAVTIYLVNGFQLRGYIKAFDNFTIVIDSEGKQQLVYKHAISTFTPQRPVSLMSQENNQQ |
| 4455 | sp|Q0VME7|HFQ\_ALCBS | MSKGHSLQDPFLNALRKERIPVSIFLVNGIKLQGQIESFDQYVVLLKNAVSQMVYKHAISTVVPARNPRATGNPAMAAGATAAPAADEGYGNQ |
| 4456 | sp|Q0VBL6|HIF3A\_MOUSE | MDWDQDRSNTELRKEKSRDAARSRRSQETEVLYQLAHTLPFARGVSAHLDKASIMRLTISYLRMHRLCAAGEWNQVEKGGEPLDACYLKALEGFVMVLTAEGDMAYLSENVSKHLGLSQLELIGHSIFDFIHPCDQEELQDALTPRPNLSKKKLEAPTERHFSLRMKSTLTSRGRTLNLKAATWKVLHCSGHMRAYKPPAQTSPAGSPRSEPPLQCLVLICEAIPHPASLEPPLGRGAFLSRHSLDMKFTYCDERIAEVAGYSPDDLIGCSAYEYIHALDSDAVSRSIHTLLSKGQAVTGQYRFLARTGGYLWTQTQATVVSGGRGPQSESIICVHFLISRVEETGVVLSLEQTEQHTRRPPRLSASSQKGIPGNSVDSPAPRILAFLHPPALSEASLAADPRRFCSPDLRRLMAPILDGPPPAATPSTPQATRRPQSPLPADLPDKLTVGLENAHRLSTAQKNKTVETDLDIAQDPDTLDLEMLAPYISMDDDFQLNSSEQLPKVHRRPPRVARRPRARSFHGLSPPIPEPSLLPRWGSDPRLNCSSPSRGDRPTASLMPGTRKRALAQSSEDKGLELLETKPPKRSPRLEPGSFLLPPLSLSFLLQGRQLPGNQQDPRAPLVHSHEPLGLAPSLLSLCQHEETVQPRNRFPPAAGLGQTH |
| 4457 | sp|B4EAW4|HFQ\_BURCJ | MSNKGQLLQDPFLNALRKEHVPVSIYLVNGIKLQGNIESFDQYVVLLRNTVTQMVYKHAISTVVPARPVNFHPDAEASS |
| 4458 | sp|B9E1Z3|HFQ\_CLOK1 | MSKPANNLQDIFLNGARKNRIPVIVYLTNGFQIRGIVKGFDNFTVILECDGKQMMVYKHALSTITPSKAILFNTPAGTDDRS |
| 4459 | sp|A6TH87|HFQ\_KLEP7 | MAKGQSLQDPFLNALRRERVPVSIYLVNGIKLQGQIESFDQFVILLKNTVSQMVYKHAISTVVPSRPVSHHSNNAGGGSSNYHHGGSAQGSSAPQQDSDDAE |
| 4460 | sp|B8FWE3|HFQ\_DESHD | MNKAPINLQDTFLNQVRKENMPVTIYLVNGFQLKGLVRGFDNFTVVIEFEGKQQMVYKHAISTVMPLRPINLVAASQSSTEER |
| 4461 | sp|A9IK70|HFQ\_BORPD | MSNKGQTLQDPFLNTLRKEHVPVSIYLVNGIKLQGQIESFDQYVVLLRNTVTQMVYKHAISTVVPARAVNFQVDVPAE |
| 4462 | sp|B0S1I1|HSLO\_FINM2 | MINKLYIATDSTESFRFNIVDSTDLVQSVRDIHNTSATASAALGRLSTMAAIMSHELKNESHNITLNLQGNGQGGMLISTVNGRGEVKSYVSHPEVDLPTKSNKKLDVGSFVGNEGLLTVIKDFKLKEPYIGQTSLVSGEIAEDFSNYFYQSDQRPTVVALGVLVDTDLSIKSAGGLFIQALPGFDESLIDKLESDINKFPPISSLFVTHDDPFDILNQYFSDFDLKLLGQKEVQYLCDCNRDRVERSLISLGKETLTELIEEDGKAELVCDFCNKKYNFSKEELMELRDNI |
| 4463 | sp|P34696|HSP11\_CAEEL | MSLYHYFRPAQRSVFGDLMRDMAQMERQFTPVCRGSPSESSEIVNNDQKFAINLNVSQFKPEDLKINLDGHTLSIQGEQELKTEHGYSKKSFSRVILLPEDVDVGAVASNLSEDGKLSIEAPKKEAIQGRSIPIQQAPVEQKTSE |
| 4464 | sp|Q1GBN7|HSLO\_LACDA | MNDYLIKAINASKDLRLLTINGKDLVAEAQKRHDTWSASSAVLGRSLLGTLLLAGAELKGDQELTLRLLGDGPVGAAVVTAKSDLTVKGYVQNNHVALPAREDGHIDVKKAVGKGWLQVTKDLGLKQPYTGEVPIVSGEIAEDLTYYLAKSEQIPSAVGLSVFVNPNDTIGAAGGFLLQALPGASEELLQETEDRIKALPQLSSAFLDGMTPEDLAKKILGDDCKILEKDEVSYHCDCSKEKYAGMLETLKGSQLKEMIDEDHGAELVCNFCGNKYNFTEAELQAILDKKLGK |
| 4465 | sp|P02520|HSP12\_SOYBN | ILQISGERNVEKEDKNDTWHRVERSSGKFMRSFRLPDNAKVDQVKASMENGVLTVTVPKEEIKKPDVKAIEISG |
| 4466 | sp|Q1RAV8|HTPX\_ECOUT | MMRIALFLLTNLAVMVVFGLVLSLTGIQSSSVQGLMIMALLFGFGGSFVSLLMSKWMALRSVGGEVIEQPRNERERWLVNTVATQARQAGIAMPQVAIYHAPDINAFATGARRDASLVAVSTGLLQNMSPDEAEAVIAHEISHIANGDMVTMTLIQGVVNTFVIFISRILAQLAAGFMGGNRDEGEESNGNPLIYFAVATVLELVFGILASIITMWFSRHREFHADAGSAKLVGREKMIAALQRLKTSYEPQEATSMMAFCINGKSKSLSELFMTHPPLDKRIEALRTGEYLK |
| 4467 | sp|P84717|HSP01\_PINST | GVVDSNDLPLNVSELVSNASDALDKLSSSPCVLVSGKFWDNFGKTZTVEVEDDSAEAKTLSKFLNAALTDKTEEVVRNWKLMNAAELLSEINRLSSSEWQAALR |
| 4468 | sp|P81083|HSP11\_PINPS | YFDPFSLDVWDPFQA |
| 4469 | sp|C0Q2Z1|HTPX\_SALPC | MMRIALFLLTNLAVMVVFGLVLSLTGIQSSSVQGLLIMALLFGFGGSFISLLMSKWMALKSVGGEVIEQPRNERERWLMNTVATQARQAGIAMPQVAIYHAPDINAFATGARRDASLVAVSTGLLQNMSPDEAEAVIAHEISHIANGDMVTMTLIQGVVNTFVIFISRIIAQIAAGFLGGNRDEGEGSNGNPLIYFAVATVLELVFGILASIITMWFSRYREFHADAGSAKLVGREKMIAALQRLKTSYEPQEATSMMAFCINGKSKSLSELFMTHPPLDKRIEALRSGEYLK |
| 4470 | sp|Q0VPG1|HTPG\_ALCBS | MSAEKQTHGFQAEVSRLLHLMIHSLYSNREIFLRELISNASDACDKLRFEALDNPALLEQGGEPQITLRVDKDAGTLTIADNGIGMSENEVVDNLGTIARSGTEKFLANLSGDQKKDAQLIGQFGVGFYSAFIVAETVTVETRKAGEAVNNGVRWESDGKGEFTVETVPRDEQGTAVILHLRDDAKDFLDDFKIRQVIGQYSDHVAFPIVLETPQEGDKDTKTETLNSATALWQRPRSEVTDEEYQSFYKHISHDFQDALTWSHNKVEGKLEYTSLLYVPAQAPFDLYQREANRGLKLYVQRVFIMDDAEQFLPQYLRFIKGVIDAPDLPLNVSRELLQDYGPVQKIRSALTKRVLQMLKKLSNDDKQYAKFWAQFGSVIKEGVAEDRDNQQSIAALLRFATSKTPDSVSTSLDQYLESKPADQDCIYYLLADTPSAARQSPHLEVFRKKGIEVLLLSDPVDEWMVGYLESYKEVKLVNAARGELDLGDESEQANNDDPLIQRLAASLTEQVEAVRATTRLVDSPACLVLAEDQLGPQMRRMLEAAGQPVPENKPVLEVNLDHTLLQALTRIEEDEKFNDFAALLLDQAMLAEGQLPKDPAATARRMQALLSQSV |
| 4471 | sp|Q2A5E0|HTPG\_FRATH | MSEKKYTFETEVDKLLHLVIHSLYSNREIFLRELVSNSSDAIEKLRYESISNAALNEDDTDYAIRIDFDKDAKTITVSDNGIGMTEEEVIENLGTIAKSGTKKFLESLTGDKSKDNELIGQFGVGFYSSFIVADKVTVRTRKAGQDKSQATKWVSDAQNGFTVEIITKEKRGTEVILHIKKEHLDLLEYHVLKGLVNKYSDCINTPIQMKKVEYDKDGKQTVKDEYETVNNTKAIWLRSKGEVTNEEYQEFYKYISHDFADALMWIHNKVEGNLEYNSLLYIPQNKPFDFWNRDKDYGLSLYVRRVFIMENKELLPPYLRFVKGVIDSADLPLNVSREILQHNKVIDKIKKAITTKILSELKKLASKDKEKYQKFWDSFGQVLKEGVSDDYSNKEKIAGLLRFATTQSGDSKQTVSLADYISRMKESQDTIYYITSDSYKAAANNPQLEAFKKKGIEVILMTDRIDEWMMSTLTEFDDKHMKSIIKGDIDLDKFETPENKEKFEKEAKDFEKVLKEIKEVLKDKVEDVRLSKRLTDSPSCVVVNDYGMSLHMQKMMEEAGQSFMPGMGMKPILELNAEHNLVQKLKNEADTEIFADLSELLLLQAMFVEGAKIEDPMAFVKLVNKYIR |
| 4472 | sp|A8IIZ0|HSLU\_AZOC5 | MSDFSPREIVSELDRHIVGQGKAKRAVAIALRNRWRRQQLQGHMREEVLPKNILMIGPTGVGKTEISRRLARLAGAPFLKVEATKFTEVGYVGRDVEQIIRDLVEVGIGLVREQKRKDVQARAHLAAEERVLDALVGANSSSTTRDAFRKKLRAGELDEKEVEIEVQAGAQGMPMFEIPGMPGAQMGAVSLGDMLGKAFGGRTKARRVLVKDAHPLLLTEEADKLIDQEATTQEAIYAVENNGIVFLDEIDKIAQREGRSGADVSREGVQRDLLPLIEGTTVSTKHGPVKTDHILFIASGAFHVSKPSDLLPELQGRLPIRVELEALTRADFVRILTETEASLVKQSVALMGTEGVTLDISPDAVEAIADVAVEVNSTVENIGARRLQTVMERVLDELSFTAPDRSGETVSIDAAYVRERVADLAKNADLSRFIL |
| 4473 | sp|Q7WQ31|HTPG\_BORBR | MSQTTTNSASETLGFQAEVKQLLHLMIHSLYSNKEIFLRELVSNASDACDKLRFEAIDQPGLLDGDGELAIRVDYDKAARTITISDNGIGLSRDEAVANLGTIARSGTREFFSQLTGDKQKDAQLIGQFGVGFYSSFIVADKVTVLSRRAGLAANEAIRWESDGQGEFSIAPAEKAGRGTDVVLHLRADEDELLNGWKLREILRRYSDHISLPIRMAKEDWDAEKGEQVKGDELETVNQANALWTRNKSDITDEQYREFYKTVSHDYDDPLAWTHNRVEGRSEYTQLLYVPKHAPFDLWDRDARRGVKLYVKRVFIMDDAEQLLPSYLRFVRGVIDSADLPLNVSREILQESRDVRAIREGSAKRVLSLLEDMAENKAEDYATFWTEFGQVLKEGTGEDAANRERIARLLRFASTHDGEQAQTVSFADYVGRMKDGQDKIYYVTADTFTAAANSPHLEIFRKKGIEVLLLSDRVDEWMLSYLREFDGKSLVSVAKGGLDLAELADEEEKKRQSEVAETFKPLVERLQQALAEQVKEVRVTQRLVDSPACVVVGQNELSPHLLRMLKAAGQEAPEVKPVLEINPDHALIARIRDASDAEFGDWAALLLDQALLAEGAQIADPAAFVKRLNGLLLKA |
| 4474 | sp|Q8KE61|HTPG\_CHLTE | MSSNPTSSVREFEYKAEMKQLLNLIVHSLYTHPEIFLRELISNASDALGKARFRMLSSDEGLDKSGDLKITITVDKESGSFVIEDTGIGMSEEELISNLGTVASSGTLGFMEALKEQQKEGQRLDANLIGQFGVGFYSVFMVTDEVTVETKSIESGLQGWRWKSSGQGSYTIEPVEREARGTRISFILKEEFREFAQEYRVEQIIKKYSNFVEYPIYIGSRQINSMTALWQRPKSELKQEEVNEFYKFIANDFKDPLDYLHVSVEGAVSFKALLFIPSEAPMELLYNQGALEKRGPQLYVKKVLIQHECRDLLPEYLRFVSGVVDTEDLPLNVSRELVQASPVMAKIKQILTTKLLGWFDTIAKEEPEKFRAFYKAFGTILKIGLNTDFTNRDKLIDLLRFETTKTVEGEYVTLKEYVGRMAEGQTEIYYHSGSSRAQMLAHPNLEYFRKRDIEVLLLSDPVDVFVIPSIFEYDKKPLKSIEKAEIDMSTVEPEGERLSAEGTVGVISLFKEVLGERVADVVESRRLVSSPVTLVSGKDALDSQFEKMMKMMNKDADMPSTKKILEINTAHPIIRNLAGKHAVGLSTDPVVRAAVTQLFESALLLEGDLESVADYVSRMNELVEAATRS |
| 4475 | sp|A9VT67|HSLU\_BACMK | MHLHFTPRQIVEKLDQYIIGQKDAKKAVAVALRNRYRRSKLVENLRDEIAPKNILMIGPTGVGKTEVARRMAKLVGAPFIKVEATKFTEVGYVGRDVESMVRDLVETSVRIVKEEMVVKVQDKAEEQANQRLVEILVPSPEKQSGFKNPLEMLFGGNQNSNQTSDAQEDDEIEKKRQDVERKLAAGLLEDEVISIEVTEQQSSMFDMLQGTGMEQMGMNFQDALGSIMPKKTKKRKLSVKEARKLLTNEEAQRLIDMDEVTQEAVYRAEQLGIIFIDEIDKIAGKQSNSVDVSREGVQRDILPIVEGSNVATKYGSVKTDYILFVAAGAFHMSKPSDLIPELQGRFPIRVELTKLSADDFVKILIEPDNALIKQYTALLATEGIEIEFSDEAIRKIAEIAYQVNQDTDNIGARRLHTVMEKLLEDLSFEASEITLEKITITPQYVEEKLATIAKNKDVSQFIL |
| 4476 | sp|Q9ZMM2|HTPG\_HELPJ | MSNQEYTFQTEINQLLDLMIHSLYSNKEIFLRELISNASDALDKLNYLMLTDEKLKGLNTTPSIHLSFDSQKKTLTIKDNGIGMDKSDLIEHLGTIAKSGTKSFLSALSGDKKKDSALIGQFGVGFYSAFMVASKIVVQTKKVTSHQAYAWVSDGKGKFEISECVKEEQGTEITLFLKEEDSHFASRWEIDSVVKKYSEHIPFPIFLTYTDTKFEGEGDNKKEVKEEKCDQINQASALWKMNKSELKEKDYKDFYQSFAHDNSEPLSYIHNKVEGSLEYTTLFYIPSKAPFDLFRVDYKSGVKLYVKRVFITDDDKELLPSYLRFVKGVIDSEDLPLNVSREILQQNKILANIRSASVKKILSEIERLSKDNKNYHKFYEPFGKVLKEGLYGDFENKEKLLELLRFYSKDKGEWISLKEYKENLKENQKSIYYLLGENLDLLKASPLLEKYAQKGYDVLLLSDEIDAFVMPGVNEYDKTPFRDASHSESLKELGLAEIHDEVKDQFKDLIKAFEENLKDEIKGVELSGHLTSAVALIGDEPNAMMANWMRQMGQSVPESKKTLELNPNHAILQKLLKCEDKEQLSAFIWLLYDGAKLLEKGALKDAKSFNERLNSVLLKAL |
| 4477 | sp|B0T7A8|HSLU\_CAUSK | MTEFSPREIVSELDRYIVGHTEAKKAVAVALRNRWRRRRVPADLRDEVTPKNILLIGPTGVGKTEIARRLAKLAQAPFLKVEATKFTEVGYVGRDVDQIVRDLVESALSMVRDKRRGGVKAKAEAAAEERILDALTGPGSTAARESFRKKLRAGELDDKEVELQLADTGGGGMFEIPGQPGASVLNLSEMMKSFGGGRTKTHKTTVVGAWAPLIAEESDKLLDQEALTQEALELAENHGIVFLDEIDKVASSSQRGGADVSREGVQRDLLPLIEGTTVSTKYGPVKTDHILFIASGAFHVAKPSDLLPELQGRLPIRVELKGLTRDDLRRILTEPEANLIRQHQALLLTEGVTLVFTEEAIDAVADAAVAVNASVENIGARRLQTILEKVVEEISFTAADRSGETVTVDADYVQARIGALAANADLSRFIL |
| 4478 | sp|A4XIX0|HSLU\_CALS8 | MNELTPQEIVRELDKYIVGQERAKRCVAIALRNRYRRAKLPKELQDEITPKNILMVGPTGVGKTEIARRLAKLVNAPFVKVEATKFTEVGYVGRDVDSMVRDLVENAISLVKSEYMEKMKERAKALVEDRILEILIPEPHARKAGFKNPFEALFGAPSQEPEQTYQTTDDYIRTQREILREKLRSGELEDKVIEVEVEDTVKPPFEMIMGTISDEMGISFQDVFGSLFPKKKKKKKMTIREAREVLEQEEYNKLIDMDEVIKEAIHRAEQHGIIFIDEIDKIAGRGSGVGPDVSREGVQRDILPIVEGSTVMTKYGPVKTDHILFIAAGAFHVAKVSDLIPELQGRFPVVVELHPLTEEDFKKILTQPKNAITKQYIELMKTEGVNITFTDDAIEAIAKVAVKINEQSENIGARRLHTVVEKIMEDISFEYANVEKPIDVVIDKDYVYSKVSDMIKDKDLNRFII |
| 4479 | sp|Q142T5|HTPG\_PARXL | MAQETMSFQAEVKQLLHLMIHSLYSNKEIFLRELISNASDAADKLRFEAIENSALYENDPNLRIRVSYDKDARTITIDDNGIGMSRDEAIANLGTIARSGTKEFFGKLSGDQQKDAALIGQFGVGFYSGFIVADRITVETRRAGLPASEGVRWESAGEGDFAVEQIERAARGTTITLHLRADEDELLSSHRLKSIIQKYSDHVALPILMKKEEWDAEKSAMVTKDEDETVNQASALWTRSKSDITDEQYKQFYQHLSHDHQDPLTWTHNRVEGRSEYTQLLYVPTHAPFDMFNRDHRGGLKLYVKRVFIMDDAEQLLPAYLRFVKGVVDSADLPLNVSREILQESRDVKAIREGVTKRVLSMLEDLANSDNEADKEKYAGFWKEFGQVLKEGIGEDFANRERIAKLLRFASTHTDTPEQTVSLADYVARMKPEQTKIYYVTADTWQAATHSPHLEVFRKKGVEVLLLTDRVDEWILSFLTEFEGKPLQSVARGDLDLGALNDEEKEAQEKVSEEFKPLVEKMKEALKDKAKDVRLTFRLTDSPSCLVADDGEMSGYLQRMLKAAGQQAPSFHPILEVNPEHALVKGLHADSANFDDWCHLLFDQALLAEGGALEDPASFVKRTNALLLARANEA |
| 4480 | sp|Q148F8|HSPB6\_BOVIN | MEIPVSVQPSWLRRASAPLPGLSAPGRLFDQRFGEGLLEAELAALCPAALAPYYLRAPSVALPTAQVSTDPGHFSVLLDVKHFSPEEIAVKVVGDHVEVHARHEERPDEHGYIAREFHRRYRLPPGVDPAAVTSALSPEGVLSIQAAPAPAQAPLQSPPGAAAK |
| 4481 | sp|Q5AF03|HSP31\_CANAL | MVKVLLALTSYNETFYSDGKKTGVFVVEALHPFEVFRKKGYEIQLASETGTFGWDDHSVVPDFLNGEDKEIFDNVNSEFNVALKNLKKASDLDPNDYDIFFGSAGHGTLFDYPNAKDLQKIATTVYDKGGVVSAVCHGPAIFENLNDPKTGEPLIKGKKITGFTDIGEDILGVTDIMKKGNLLTIKQVAEKEGATYIEPEGPWDNFTVTDGRIVTGVNPQSAVKTAEDVIAAFECN |
| 4482 | sp|Q2YA09|HTPG\_NITMU | MEATATKEHLNFQTEVKQLLKLMIHSLYSNKEIFLRELISNASDAADKLRFEALTDGALYESDSDLKIRVSYDKEARTITVADNGIGMSRQEVIDHIGTIAKSGTREFFDALTGDQAKDAHLIGQFGVGFYSAFIVADKVTLTTRRAGLTHEHGVRWESGGEGDYTLETIDKPGRGTEVTLHLREGEDELLNGWRLRSIIRKYSDHITLPIVMKKEEWSQEKNENTVTEEDETINQASALWARPKNEISEEQYNEFYKHVAHDFEPPLAYVHARVEGKQEYTQLLYVPSRAPFDLYDRESRHGIKLYVRRVFIMDDAKQLLPNYLRFVRGIIDSNDLPLNVSREILQESKDIEAMRAGSVKKVLGLLDDLAQSETDEGKAKFKTFWKEFGQVMKEGVAEDYANRERIAKLLRFVSTHSDSEEQDVSLSDYVGRMKDGQEKIYYVTADSLTAAKSSPHLEIFRKKDIEVILLFDRVDEWLVANLPEFEGKHLQSVAKGSLDLGKLEDEAEKKEQEKEAGEYKELTEKIKEVLGEQVKDVRITLRLTESPACLVTETHDMSGNLERLLKSAGQKVTHTKPILEINPYHPMVERLKSEETHFADWSHILFDQALLAEGGQLEDPASFVKRINQLFLSTGSKE |
| 4483 | sp|B8IU50|HTPG\_METNO | MSETLERHAFGAEVGRLLDLVVHALYSEREIFLRELVANAADAVDRRRFGALTDPALALPAEAKVRIRPDKAARTLTISDPGIGMGKEDLAQNLGTIARSGTRAFSQSLAEAKPDERPSLIGQFGVGFYSAFMVADRVEVTSRRAGSDEAWTWASDGEGEYTLSPATREEPGTDVVLHMKADADEYLEPLRIETIVRKWADHITVPITLLRDGEEVSGNEGTALWRKPKAEITEETYTAFYRHLTHNFDTPWATLHWRAEGALDFSALLFIPSMKPFLAVEEERESKVRLHVRRMFITDEAGLLPSWLRFVQGVVDTEDLPLNVSREMLQATPVLARIRRAVTAKVLSELKSRAKDADGYASFWQAFGPVLKEGIWEDAEQRDDIAGLIRFRSSAVEGWTSFADYVSRMKPNQEAIYILVGDDTKALASSAQIEGFRARGIEVLLLSDHVDAFWPERLDKFDGKPIRSITQSADDLSAFAPEGESEGEAADLADLVPKLKEILKDDVTDVRASQRLVESAVLLSASSGGPDLQMQRLLRRAGRGFGAGLPVLELNPRHALVRRLAERAKTGEDIAEAAQTLLDLAHVQGGDAPRDPVAFARRVATALAAQG |
| 4484 | sp|Q5QWR2|HTPG\_IDILO | MAEAGQMEKHGFQTEVKQLLHLMIHSLYSNKEIFLRELVSNASDAADKLRFKALSDNSLYGDDSDLHVRVSVDKDSRTITISDNGVGMTRDDVMNNLGTIAKSGTAEFFGQLSGDEAKDSKLIGQFGVGFYSAFIVADEVTVRTRSALDKDARGVEWRSQGEGDFEIADIDKARRGTDIILHLKDDADEFLDENRLRGIINKYSEHLSIPVQMWKEPVPESEDDEGNKVEGQPGEWETVNSGQALWTREKSDITDEEYKEFYKTVAHDFDEPLLWSHNKVEGTTEYTNLLYIPKRAPWDLWNREQQHGVKLYVKRVFIMDDAEQLMPTYLRFVRGLVDSNDLPLNVSREILQDNKITRAMRNGSTKKVLQMLKKLAKDDKEQYQQFWDTFGNVLKEGPAEDHTNRERIAELLRFASTHNDGAVQSVSLDDYIERMKEGQDKIFYIVADSYEAARNNPALEIFNKKGIEVLLLSERIDEWLMSHLTEFKEKQLQSVTRGDLDLGELDDEEDKAEQEKAEEAFKENLERFEKALGDKVKKVRVTNRLTNSPACIITDDNDMSTQMAKLMEAAGQAVPETKYIFEVNPEHPLVQRMLTKEDDTFKEWAEVLLDQATLAERGNLKDPASFVTRLNKLMLNA |
| 4485 | sp|Q9SYG1|HS174\_ARATH | MSAVAINHFFGLPEAIEKLILPISRSGESNNESRGRGSSNNIPIDILESPKEYIFYLDIPGISKSDIQVTVEEERTLVIKSNGKRKRDDDESEEGSKYIRLERRLAQNLVKKFRLPEDADMASVTAKYQEGVLTVVIKKLPPQPPKPKTVQIAVS |
| 4486 | sp|A6WPI2|HTPG\_SHEB8 | MSQQETHGFQTEVKQLLHLMIHSLYSNKEIFLRELVSNAADAADKLRYLALTNDALYEGDGELRVRISADKEKGTVTIEDNGVGMTRDGVIEHLGTIAKSGTADFFKNLSGESSKDSQLIGQFGVGFYSAFIVAKKVTVRTRAAGHKADEAVLWESEGEGNFTVDTITKASRGTEITLHLRDEEKEFADDWRLRSIITKYSDHISVPVEMWQEGTPESDGADGEKIPATEGQWKVMNKATALWMRSKADISDEEYQEFYKHISHDYTDALLWSHNRVEGKQEYTNLLYIPAKAPWDMWNRDRKHGLKLFVQRVFIMDDAEQFMPSYLRFVQGLIDSNDLPLNVSREILQDNHVTKAMRTGITKRVLGMLEKLAKDDAEKYQQFWAEFGQVLKEGPAEDFANRERIAGLLRFASTHTGSAAPTVSLDDYISRMKEGQTKIYYIVADSHEAAANSPHLELLRKKGIEVLLMSERIDEWLINHLTEYKEKQLHSVTRGDLELGELEDASEKEAQEKLEQESVALVERIKAALGSTVADVKVTSRLTDTPACVVAGEGEMSTQMIKLMQAAGQPVPEVKPTFEINPAHPLVSRLNDLQDEAAFADWSNLLLQQAQLSEKGSLADPSAFIKLMNQMLLANMK |
| 4487 | sp|P19752|HSP30\_NEUCR | MALFPRGFYGSYGSDPSFTNLFRLLDDFDTYTREVQGSAPETGSRRHTQPTRTFSPKFDVRETEQTYELHGELPGIDRDNVQIEFTDPQTIVIRGRVERNYTAGTPPAQVAGVLTEKGEPHSPAAHHATVEDDVDEDNRSVATTATGANNQNNQQVAQRASAPTTEEKPKAPAEKYWVSERSIGEFSRTFNFPGRVDQNAVSASLNNGILTITVPKAKKHETIRIAIN |
| 4488 | sp|A5CWV5|HTPG\_VESOH | MTIKQTHSFQTEVSQLLHLMIHSLYSNKEIFLRELISNASDAVDKLKFKSLSDDTLIEGKEALQIHIDVNKDANTITITDNGIGMSEVEVNKNIGTIANSGTKKFLKSLNETQAQDSNLIGQFGVGFYSSFIVSDKVEIITRKAGSKSKKGTKWASTGKGKYSIESIDRPDFGTSVILHIKKDEKEFLDDYRLRNIISKYSDHITVPIMMVKVSEDNKDIEYERINKANAFWAQDKQDLKQKDYDEFYKSLTYDLEAPLTQLHNRVEGNIDYTSLLFIPSKSPFDIWEPKRKGGIKLYAKRVFIMEDNEALMPLYLRFVKGVIDTADLSLNLSREILQDNKVIKAIRKASVKRILSVLEKMAKNKPEDYATFWQEFGMLMKEGVVEDTINKDKIAKLLRFTTNKSKNATQTVTLEHYIKNIQKDQKAIYYITAETYETAKGSPHLENFNQKNIEVLLLSDRVDEWMVSNFREFDGIQLKSIAKGNLEDFDSKEEKKAKEEVAKNFEIVIEKMQKILDSQVKEIKISSRLSESPSCLVADENEMGGNMERIMKSLGQDIPDTKPILEINPTHSLVKKLKTKIDEDLVKVLFDQAVLSEGGQLKDPAEFVKRINKLIN |
| 4489 | sp|O33012|HTPG\_MYCLE | MSAQVEQLEFQAEARQLLDLMVHSVYSNKDAFLRELISNASDALDKLRLEAFRNKDLDPRTVDTSDLHIEIEVDKNTRILTVRDNGIGMTRAEVVDLIGTLAKSGTAKLRQKLHAAKNLKDTAASEGLIGQFGIGFYSSFMVANKVELLTRKAGETAATRWSSDGEATYTIESVDEAPQGTSVTLHLKPEDFEDELHDYTSEWKIRELVKKYSDFIAWPIRMEVERRAPATSDGEGADGEEQVTIETQTINSMKALWTKSKDEVSEDEYKEFYKHIAHAWDDPLEVIAMKAEGTFEYQALLFIPSHAPFDLFNSDAKIGMQLYVKRVFIMSDCDQLMPMYLRFVKGVVDAEDMSLNVSREILQQNRQINAIRRRLTKKVLSAIKDLQAERPQDYRTFWTQFGKVLKEGLMSDSDNRDTLLHISSFASTHSDEEPTTLAQYVERMKDGQDQIFYATGESRQQVMNSPHLEAFKAKGYEVLLLTDPVDEVWVGMAPEFDGKPLKSVARGEVDLESEEEKTAHEAERKEQEQNFAGLVNWLKETLSDHVKEVRLSTRLTESPACLITDAFGITPALARIYRASGQDVPFGKRILELNPNHPLITGLQQAHENGGDDTHLRQLSETAELLYGTALLAEGGALENPAKFAGLLADLLSRSM |
| 4490 | sp|P54652|HSP72\_HUMAN | MSARGPAIGIDLGTTYSCVGVFQHGKVEIIANDQGNRTTPSYVAFTDTERLIGDAAKNQVAMNPTNTIFDAKRLIGRKFEDATVQSDMKHWPFRVVSEGGKPKVQVEYKGETKTFFPEEISSMVLTKMKEIAEAYLGGKVHSAVITVPAYFNDSQRQATKDAGTITGLNVLRIINEPTAAAIAYGLDKKGCAGGEKNVLIFDLGGGTFDVSILTIEDGIFEVKSTAGDTHLGGEDFDNRMVSHLAEEFKRKHKKDIGPNKRAVRRLRTACERAKRTLSSSTQASIEIDSLYEGVDFYTSITRARFEELNADLFRGTLEPVEKALRDAKLDKGQIQEIVLVGGSTRIPKIQKLLQDFFNGKELNKSINPDEAVAYGAAVQAAILIGDKSENVQDLLLLDVTPLSLGIETAGGVMTPLIKRNTTIPTKQTQTFTTYSDNQSSVLVQVYEGERAMTKDNNLLGKFDLTGIPPAPRGVPQIEVTFDIDANGILNVTAADKSTGKENKITITNDKGRLSKDDIDRMVQEAERYKSEDEANRDRVAAKNALESYTYNIKQTVEDEKLRGKISEQDKNKILDKCQEVINWLDRNQMAEKDEYEHKQKELERVCNPIISKLYQGGPGGGSGGGGSGASGGPTIEEVD |
| 4491 | sp|Q5PHN9|HTPX\_SALPA | MMRIALFLLTNLAVMVVFGLVLSLTGIQSSSVQGLLIMALLFGFGGSFISLLMSKWMALKSVGGEVIEQPRNERERWLMNTVATQARQAGIAMPQVAIYHAPDINAFATGARRDASLVAVSTGLLQNMSPDEAEAVIAHEISHIANGDMVTMTLIQGVVNTFVIFISRIIAQIAAGFLGGNRDEGEGSNGNPLIYFAVATVLELVFGILASIITMWFSRYREFHADAGSAKLVGREKMIAALQRLKTSYEPQEATSMMAFCINGKSKSLSELFMTHPPLDKRIEALRSGEYLK |
| 4492 | sp|Q47GZ8|HTPG\_DECAR | MSESATANANRETLGFQAEVKQLLQLMIHSLYSNKEIFLRELVSNASDACDKLRFEALNNSALYGDDSELKIRIAFDKDARTITISDNGIGLSRDEAVEHLGTIAKSGTKEFFSALTGDQAKDAHLIGQFGVGFYSSFIIADKVTVVSRRAGVEANQAVCWESGGEGDYTVEMVEKATRGTDVTLHLREGEDEFLGGWKLKSIIRKYSDHITLPIVMKKEDWKDGEQVMTEEDETVNQANALWVRSKSDITEEQYKEFYKHVAHDFEDPLAWTHARVEGKQEYTQLLYIPARAPFDLWDRNARHGIKLYVRRVFIMDDAEQLMPLYMRFVRGVVDSSDLPLNVSREILQQSKDIDGIRSGCTRKVLGMLEDLAENDKEKYAKFWEAFGSVLKEGVGEDHANKEKIAGLIRFSSTHNDTAEQNVSLADYIGRMKEGQEKIYFVTADTFNAAKNSPHLEIFRKKGIEVLLLSDRVDEWVVGHLTEFDGKHLQSVAKGGLDLGKLEDEAEKQEAEKAADDYKELLEKVKTSLGDKVKDVRVTYRLTDSPSCLVSDEHDPSGNLARLMKAAGQPMPNSKPILEINPQHPAVMRLKYEESRFDDWAALLFEQATLAEGGQLDDPAGFVKRINDLMMALSAK |
| 4493 | sp|Q0E4A8|HS189\_ORYSJ | MSMITSMLGRKQNAQQKGGGGGGRTGGGGGGEIEPVSVDIMEPFMDAISLTAFAAAPSAAAAAAGVPSTASMDWKETAAAHVFMADMPGVRREEVRVEVEEEKVLRISGQRARAAEEKGERWHRVERSSERFVRTVRLPPNANTDGVHAALDNGVLTITIPKDNDRKPHARIIPITN |
| 4494 | sp|Q084C6|HTPG\_SHEFN | MSQQETHGFQTEVKQLLQLMIHSLYSNKEIFLRELVSNAADAADKLRYLALTDDTLYEGNGDLRVRVSANKEKGTVTISDNGIGMTRDSVIEHLGTIAKSGTKEFFSNLSGEASKDSQLIGQFGVGFYSAFIVAKKVTVRTRAAGHAANEGVLWESEGEGSFNVESITKNERGTEIVLHLRDEETEFADDYRLRSIITKYSDHISVPVQMWNEGTPESDGPDGEKVAATEGEWKVMNKATALWTRNKSDITEEEYQEFYKHISHDYSDALKWSHNRVEGKQEYTSLLYIPAKAPWDMWNRDHKHGLKLFVQRVFIMDEAEQFLPTYLRFVRGLIDSNDLPLNVSREILQDNQVTTAMRVGITKRVLGMLEKLAKDEPEQYQSFWAEFGQVLKEGPAEDFANKERIAGLLRFASTHDNSAATTVSLEAYIERMKAGQDKIYYIVADSHEAAANSPHLELLRKKGIEVLLLSERIDEWLVNHLTEFKDKKLHSVTRGDLELGELEDAADKEAHDKVAEESKGLIERVKAALADSVSEVRVTSRLTDTPACVVAGEGEMSTQMIKLMQAAGQPVPESKPTFEINPTHPLVEHLNNETDEQLFADWANLLLQQALLSEKGSLADPSAFIKLTNQMLLASVK |
| 4495 | sp|A1A9N5|HSPQ\_ECOK1 | MIASKFGIGQQVRHSLLGYLGVVVDIDPVYSLSEPSPDELAVNDELRAAPWYHVVMEDDNGLPVHTYLAEAQLSSELQDEHPEQPSMDELAQTIRKQLQAPRLRN |
| 4496 | sp|Q87EN0|HTPG\_XYLFT | MTLEADKQTHGFQTEVKQLLQLMIHSLYSNKEIFLRELISNAADAADKLRFEALSAPSLLEEDPNLRIRVEFDKQAHTITIDDNGIGMSRDEAIAHLGTIAKSGTADFLKALSGDQRKDANLIGQFGVGFYSAFIVADHVDVYSRRAGLTAAEGVHWSSKGEGNFEVATIDKPQRGTRVVLHLKENEQHFAEGWTLRSTLKKYSDHIGLPIEMLKEHHGKEEEKDTPQEAEWEAVNKASALWTRPKNDIKDEEYQEFYKHISHDMTNPLAWSHNKVEGKLEYTSLLYVPTRAPFDLYHRNAAKGLKLYVQRVFIMDQAEQFLPLYLRFIKGVVDSADLSLNVSREILQSGPVVDSMKTALSKRALDMLEKLAKDAPEDYKTFWKNFGQVLKEGPAEDYSNREKVASLLRFASTYDTSGDPSVALTDYIARMKEGQDKLYYLTGESYAQIKDSPYLEVFRKKGIEVLLLVDRIDEWLMNYLHEFDGKSFVDIARGDLDLGNLDSEADKKAQEEIAKTKEALASRIKATLGEDVAEVRVSHRLTDSPAVLAIGEGDLGLQMRQLLEASGQKVPETKPVFEFNPSHPLIEKLDAEQDMDRFADLSRILFDQAALAAGDSLKDPANYVRRLNKLLLELSA |
| 4497 | sp|Q00649|HSPB1\_CHICK | MAERRVPFTFLTSPSWEPFRDWYHGSRLFDQSFGMPHIPEDWYKWPSGSAWPGYFRLLPSESALLPAPGSPYGRALSELSSGISEIRQSADSWKVTLDVNHFAPEELVVKTKDNIVEITGKHEEKQDEHGFISRCFTRKYTLPPGVEATAVRSSLSPDGMLTVEAPLPKPAIQSSEITIPVTVEAKKEEPAKK |
| 4498 | sp|Q1LTF8|HTPX\_BAUCH | MMRIVIFLLTNLAVMVVFGILLTCVGTHSSNTVRLMIISGLFGFCGAFISLLMSKFIALRSVGGKVISQPQNETEHWLLNIILNQAQKIGITMPQVAIYNAPDMNAFATGPSRNNSLVAVSTGLLQNMPRTEIEAVIAHEISHISNGDMVTITLISGIVNTFVIFISRFLAQLTAGFIGSNNEESNNGNKLVYMIVSTILELAFGILASIIVLWFSRYREFYADAGSANIVGCDKMIAALQRLKTSYEPKVTNNIKIFCINGYQKSLSEFFMSHPPLNKRIEALRYGTYMK |
| 4499 | sp|B2T1N8|HSLU\_PARPJ | MSTMTPAEIVSELDKHIIGQGRAKKAVAVALRNRWRRQQVEDPLRQEITPKNILMIGPTGVGKTEIARRLAKLADAPFIKIEATKFTEVGYVGRDVDSIVRDLIEISVKQTRETEMRKVRTKAEDQAEDRILDILLPSARPVGFGASSSAADTVDESSTTRQTFRKRLREGLLDDKEIELDVEQPQVGMDIMGPPGMEDMTEQIRSMFANIGGGKKTRRKLKVKEALKVLTDEEAGKMLNDEEVKTKAVQNVEQNGIVFLDEIDKIASRNEAGGGEVSRQGVQRDLLPLVEGTTINTKYGMVKTDHILFIASGAFHLAKPSDLIPELQGRFPIRVELDSLSVNDFESILVSTDASLVKQYQALLATEDVHLEFADDGIRRLAEIAYSVNEKTENIGARRLYTVIEKLLEEVSFAAGNHSGRTVQIDAAYVDRALNEVAEDEDLSRYVL |
| 4500 | sp|B2RGR5|HTPG\_PORG3 | MSKKGTIGVTSDNIFPVIKKFLYSDHKIFLREIVSNAVDATQKLKTLTSVGEFKGETGDLRVTVSVDEVARTITVSDRGVGMTEEEVEKYINQIAFSSAEEFLEKYKDDKAAIIGHFGLGFYSAFMVSERVDVITRSFREDATAVKWSCDGSPEYTLEPADKADRGTDIVMHIDEENSEFLKKEKIEGLLGKYCKFLTVPIIFGKKQEWKDGKMQDTDEDNQINDTHPAWTKKPADLKDEDYKEFYRSLYPMSEEPLFWIHLNVDYPFNLTGILYFPKIKNNLDLQRNKIQLYCNQVYVTDEVQGIVPDFLTLLHGVIDSPDIPLNVSRSYLQSDANVKKISSHITKKVADRLEEIFKNDRPTFEEKWDSLKLFVEYGMLTDEKFYERAAKFFLFTDMDGHKYTFDEYRTLVEGVQTDKDGQVVYLYATDKHGQYSHVKRASDKGYSVMLLDGQLDPHIVSLLEQKLEKTHFVRVDSDTINNLIRKEERAEVKLSDTERATLVKLFEARLPRDEKKHFNVAFESLGAEGEAILITQAEFMRRMRDMAQLQPGMSFYGELPDSYNLVLNTDHPLIDKVLSGEKESVEPSLTELRAKIAELKTEEAKLLDEEKGKKPEEIPVATKEAKENNAVEQAKTEGSINDQLTKYAQDNELIGQLIDLALLGSGLLTGEALAEFIRRSQRLL |
| 4501 | sp|A5CCZ2|HTPG\_ORITB | MSVETYKFDAEVGKVLHLVIHTLYTNKKIFLRELISNASDACDKLRYLSQSNAELLQGESDFKITVSMDKEKRYIILQDNGIGMNKEDLTQNLGTIASSGTQKFLEQLGNDAKKDNMLIGQFGVGFYSSYMVADEVKVISKKAGEAQAYQWSSKGEGEYYIEDCEADFIRGTKITLHIKPEYDNYLDHFQIKDIIKTYSDHISVPIYYVGVDGKEQQVNSSSALWTRSKSDITDEQYEEFYRNIAYAIDKPWVTIHNKSEGVIEFTNLLFIPSSKTFDLFHPDRKSRVKLYIKKVFITDENVALIPKYMRFLRGVVDSEDLSLNISRETLQHSPLIDKIQASITKRVITELEKQKTKDQGEYETFWNNFGAVLKEGLCEGTADVDKLLKICLFRSALQDKFISLDEYIANLKSEQKNIYYITGDDLEALKSSPQIEGLLSRNIDVLLLTDDVDKFWVMVTRKYNDYVLKSVTSANIEIDNCDTKTAKSSDTNNDGKDDTSSSDDQNCEQLIKYFKEVLGDKVKSVEVSKKLTRSPVCLTVPEGSMDIRTERFLIEQKQLSSHSSKILEINPNHTIIKKINENIKLNQNLDVNKQLVMTLLDQSYLIEGQPIPDLQDYCNRINFFIEKSVN |
| 4502 | sp|A1SQW3|HSLU\_PSYIN | MSNMTPKEIKHELDRHIIGQDNAKRAVAIALRNRWRRMQLDKEMRQEVTPKNILMIGPTGVGKTEIARRLAKLANAPFIKVEATKFTEVGYVGKEVESIVRDLVDVAIKLTREEEMAKVAHKAEDLAEDRILDILIPPAKTGNDWETVKTEDSATRQSFRKKLREGKLDDKEVEIDLPAPQIGVEIMAPPGMEEMTNQLQGMFQSMSGKDKTKKRKMKIKEALKVLIESEAAKLVNEEDIKEKALFSAENNGIIFIDEIDKICKRGDSAGPDVSREGVQRDLLPLIEGSTVSTKHGMVKTDHMLFIASGAFQVAKPSDLIPELQGRLPIRVELEALTEEDLAKILTEPKASLSEQYKALLATEGITLQFSKDGIDKIAKSAWHVNETTENIGARRLHTLMERILDELSYEASERKGESITIDENYVANTLDDLLENEDLSRYIL |
| 4503 | sp|B0UFH4|HSLU\_METS4 | MTTFSPREIVSELDRYIVGQADAKRAVAIALRNRWRRQQLHGPLREEVAPKNILMIGPTGCGKTEISRRLARLANAPFLKVEATKFTEVGYVGRDVEQIVRDLVEVGIGLKRDEKRRSVQARAEAAAEARILDALVGPTAGQATRDSFRRRLRAGELDDKEVEIELASAAPSGLPMFEIPGVPGAAMGAINLGDMLGKALGGQKGKPRRVTVRDAHAPLMAEESDKLLDQDAIVQEAVREVEDNGIVFLDEVDKICAREGRGGADVSREGVQRDLLPLIEGTTVATKHGPVKTDHILFIASGAFHVSKPSDLLPELQGRLPIRVELAPLTVDDFRRILTETEASLLKQAVALMATEGVAVTFTEDAVDALARVAVEVNSSVENIGARRLQTVLERVLDEISFTAPDRAGESVTIDAAYVRERVESLAQNADLSRFIL |
| 4504 | sp|Q84Q72|HS181\_ORYSJ | MSLIRRSNVFDPFSLDLWDPFDGFPFGSGSRSSGSIFPSFPRGTSSETAAFAGARIDWKETPEAHVFKADVPGLKKEEVKVEVEDGNVLQISGERSKEQEEKTDKWHRVERSSGKFLRRFRLPENTKPEQIKASMENGVLTVTVPKEEPKKPDVKSIQVTG |
| 4505 | sp|B7M6Y2|HSLU\_ECO8A | MSEMTPREIVSELDKHIIGQDNAKRSVAIALRNRWRRMQLNEELRHEVTPKNILMIGPTGVGKTEIARRLAKLANAPFIKVEATKFTEVGYVGKEVDSIIRDLTDAAVKMVRVQAIEKNRYRAEELAEERILDVLIPPAKNNWGQTEQQQEPSAARQAFRKKLREGQLDDKEIEIDLAAAPMGVEIMAPPGMEEMTSQLQSMFQNLGGQKQKARKLKIKDAMKLLIEEEAAKLVNPEELKQDAIDAVEQHGIVFIDEIDKICKRGESSGPDVSREGVQRDLLPLVEGCTVSTKHGMVKTDHILFIASGAFQIAKPSDLIPELQGRLPIRVELQALTTSDFERILTEPNASITVQYKALMATEGVNIEFTDSGIKRIAEAAWQVNESTENIGARRLHTVLERLMEEISYDASDLSGQTIIIDADYVSKHLDALVADEDLSRFIL |
| 4506 | sp|Q61696|HS71A\_MOUSE | MAKNTAIGIDLGTTYSCVGVFQHGKVEIIANDQGNRTTPSYVAFTDTERLIGDAAKNQVALNPQNTVFDAKRLIGRKFGDAVVQSDMKHWPFQVVNDGDKPKVQVNYKGESRSFFPEEISSMVLTKMKEIAEAYLGHPVTNAVITVPAYFNDSQRQATKDAGVIAGLNVLRIINEPTAAAIAYGLDRTGKGERNVLIFDLGGGTFDVSILTIDDGIFEVKATAGDTHLGGEDFDNRLVSHFVEEFKRKHKKDISQNKRAVRRLRTACERAKRTLSSSTQASLEIDSLFEGIDFYTSITRARFEELCSDLFRGTLEPVEKALRDAKMDKAQIHDLVLVGGSTRIPKVQKLLQDFFNGRDLNKSINPDEAVAYGAAVQAAILMGDKSENVQDLLLLDVAPLSLGLETAGGVMTALIKRNSTIPTKQTQTFTTYSDNQPGVLIQVYEGERAMTRDNNLLGRFELSGIPPAPRGVPQIEVTFDIDANGILNVTATDKSTGKANKITITNDKGRLSKEEIERMVQEAERYKAEDEVQRDRVAAKNALESYAFNMKSAVEDEGLKGKLSEADKKKVLDKCQEVISWLDSNTLADKEEFVHKREELERVCSPIISGLYQGAGAPGAGGFGAQAPKGASGSGPTIEEVD |
| 4507 | sp|B3PJ06|HTPX\_CELJU | MLRIGLFLLTNLAVLVVAGVVLSLLGVGNYRTADGLDLTNLLIFCAVFGFVGSFISLFLSKWMAKKTMGVQLIEQPRNADEKWLVDTVVELSQKAGIKTPEIGVFAAQESNAFATGWNRNDALVAVSLGLLQRFERDEVKAVLAHEIGHVANGDMITLSLIQGVVNTFVMFFARIIGDLVDRVIFKNEEGRGIAFFITTIVAELVLGILASMIVAAFSRYREYRADAAGATLADRGAMIRALQRLQAEMSAGVESPLPSSMRAFGISGGVRNLFASHPPLEARIQALRDSAHG |
| 4508 | sp|P51818|HS903\_ARATH | MADAETFAFQAEINQLLSLIINTFYSNKEIFLRELISNSSDALDKIRFESLTDKSKLDGQPELFIHIIPDKTNNTLTIIDSGIGMTKADLVNNLGTIARSGTKEFMEALAAGADVSMIGQFGVGFYSAYLVADKVVVTTKHNDDEQYVWESQAGGSFTVTRDTSGEALGRGTKMVLYLKEDQMEYIEERRLKDLVKKHSEFISYPISLWIEKTIEKEISDDEEEEEKKDEEGKVEEVDEEKEKEEKKKKKIKEVSHEWDLVNKQKPIWMRKPEEINKEEYAAFYKSLSNDWEEHLAVKHFSVEGQLEFKAILFVPKRAPFDLFDTKKKPNNIKLYVRRVFIMDNCEDIIPEYLGFVKGIVDSEDLPLNISRETLQQNKILKVIRKNLVKKCLELFFEIAENKEDYNKFYEAFSKNLKLGIHEDSQNRTKIAELLRYHSTKSGDELTSLKDYVTRMKEGQNDIFYITGESKKAVENSPFLEKLKKKGIEVLYMVDAIDEYAIGQLKEFEGKKLVSATKEGLKLDETEDEKKKKEELKEKFEGLCKVIKDVLGDKVEKVIVSDRVVDSPCCLVTGEYGWTANMERIMKAQALRDSSMGGYMSSKKTMEINPENSIMDELRKRADADKNDKSVKDLVLLLFETALLTSGFSLDEPNTFGSRIHRMLKLGLSIDDDDVVEADADMPPLEDDADAEGSKMEEVD |
| 4509 | sp|P46633|HS90A\_CRIGR | MPEETQTQDQPMEEEEVETFAFQAEIAQLMSLIINTFYSNKEIFLRELISNSSDALDKIRYESLTDPSKLDSGKELHINIIPNKQDRTLTIVDTGIGMTKADLINNLGTIAKSGTKAFMEALQAGADISMIGQFGVGFYTAYLVAEKVTVITKHNDDEQYAWESSAGGSFTVRTDTGEPMGRGTKVILHLKEDQTEYMEERRIKEIVKKHSQFIGYPITLFVEKERDKEVSDDEAEEKEDKEEEKEKEEKGIDDKPEIEDVGSDEEEEEKKDGDKKKKKKIKEKYIDQEELNKTKPIWTRNPDDITNEEYGEFYKSLTNDWEEHLAVKHFSVEGQLEFRALLFVPRRAPFDLFENRKKKNNIKLYVRRVFIMDNCEELFPEYLNFIRGVVDSEDLPLNISREILQQSKILKVIRKNLVRKCLELFHELAEDKENYKKFYEQFSKNIKLGIHEDSQNRKKLSELLRYYTSASGDEMVSLKDYCTRMKENQKHIYFITGETKDQVANSAFVERLRKHGLEVIYMIEPIDEYCVQQLKEFEGKTLVSVTKEGLELPEDEEEKKKQEEKKTKFENLCKIMKDILEKKVEKVVVSNRLVTSPCCIVTSTYGWTANMERIIKAQALRDNSTMGYMAAKKHLEINPDHSIIETLRQKAEADKNDKSVKDLVILLYETALLSSGFSLEDPQTHANRIYRMIKLGLGIDEDDPTVDDTSAAVTEEMPPLEGDDDTSRMEEVD |
| 4510 | sp|Q8GQU1|HSLV\_LEPBO | MPENKIRSTTILCVRKSGKVAIGGDGQVSMGNTVMKNTAKKIRRLYDGKILSGFAGSAADAFTLFELFEKKVQEFGGSLSRSAVELAREWRTDRMLRKLEALLIVADKEESFLISGTGDVISPDEGVIAIGSGGSYALAAAKALYDHTDLSAREIVESSMKIAANICIYTNDHITLEEIL |
| 4511 | sp|A8F187|HSLU\_RICM5 | MKATKTTYKKDPMGLTPSQIVNELNRFIVGQEKAKKAVAIALRNRCRRKRVEGNLRNEIVPKNILMIGSTGVGKTEIARRLAKLTNSPFYKIEATKFTEVGYVGRDVESIMRDLVEIAVNTEKTLAKTKVDINAREKAIERILDSLVGKTSSSETREKFKEKILNGELDDTEIEISVADTTPVGSGSFEIPGMPGASMGVLNLGDMIGRALGSSKTKTKKMLVKDAMAIIIPEESEKLIDQEKIIQQAINLAENDGIVFIDEIDKIASTGSSGAKNAEISREGVQRDLLPLIEGTTVNTKYGPVKTDHILFIASGAFHIAKPSDLLPELQGRLPIRVELNSLTKDDMIKILLEPETSLIKQYSALIGTEDVCLEFAASAIEKIADYAITVNLEVEDIGARRLHTILENLLEDISFEASEMKGKKITIDDKFVENQLSKIITNLDLAKFVL |
| 4512 | sp|Q2KE54|HSLU\_RHIEC | MTTFSPREIVSELDRYIIGQHDAKRAVAIALRNRWRRQQLDPSLRDEVMPKNILMIGPTGVGKTEISRRLAKLAGAPFIKVEATKFTEVGYVGRDVEQIIRDLVEVGIGLMREKKRAEVQAKAHVSAEERVLDALVGTTASPATRENFRKKLRDGELDDKEIDIEVADAGSGMGGFEIPGMPGANIGVLNLSEMFGKAMGGRTKKVRTTVKASYTDLIRDESDKLIDNEVIQREAVRATENDGIVFLDEIDKIAARDGGMGAGVSREGVQRDLLPLVEGTTVSTKYGPVKTDHILFIASGAFHVSKPSDLLPELQGRLPIRVELRPLNKEDFRRILTETEASLIRQYRALMETENLNLDFTDDAIDALADVAVHLNSSVENIGARRLQTVMERVLDDISYNAPDRAGAAITIDAAYVREHVGDLAQNTDLSRFIL |
| 4513 | sp|B5BBK1|HSPQ\_SALPK | MIASKFGIGQQVRHSLLGYLGVVVDIDPEYSLDEPSPDELAVNDELRAAPWYHVVMEDDNGQPVHTYLAEAQLRSEMRDEHPEQPSMDELARTIRKQLQAPRLRN |
| 4514 | sp|Q3J6B1|HSLU\_RHOS4 | MTDLTPREIVSELDRFIIGQKEAKRAVAVALRNRWRRKQLADDLRDEVYPKNILMIGPTGVGKTEISRRLARLAKAPFLKVEATKFTEVGYVGRDVDSIIRDLVDAAIVETRARMREDVKARAAKAAEDRVIEAVAGRDAREQTREMFRGKLKRGELDSTVIEIDVADTSNPMQMLDPTGQGQMGMMNLGEIFGKAFGGRTQRRKMTVAESHDILMNEEADKLLDDEVVKATALEAVQQNGIVFIDEIDKVCARSDMRGADVSREGVQRDLLPLIEGTTVSTKYGPVKTDHILFIASGAFHIAKPSDLLPELQGRLPIRVELRALTEEDFVRILSETDNALTLQYKALMQTEKVGITFTEDGIAALASIAAEVNRSVENIGARRLYTVMERVFEELSFHAPDRSGEEVTVDAAYVEKNLGELARSSDLSRYVL |
| 4515 | sp|P47773|HSP7C\_ICTPU | MSKGPAVGIDLGTTYSCVGVFQHGKVEIIANDQGNRTTPSYVAFTDSERLIGDAAKNQVAMNPTNTIFDAKRLIGRRFEDSVVQADMKHWPFKVISDGGRPRLEVEYKGEAKNFYPEEISSMVLVKMKEIAEAYLGKSINNAVITVPAYFNDSQRQRTKDAGTISGLNVLRIINEPTAAAIAYGLDKKVGSERNVLIFDLGGGTFDVSILTIEDGIFDLKSTAGDTHLGGEDFDNRMVNHFIAEFKRKHKKDISDNKRAVRRLATACERAKRTLSSSTQASIEIDSLYEGVDFYTSITRARFEELNADLFRGTLDPVEKALRDAKMDKAQVHDIVLVGGSTRIPKMEKLLQDFFNGKELNKSINPDEAVAYGAAVQAESSLGDKSENVQDLVLLDVTPLSLGIETAGGVMTVLIKRNTTIPTKQTQTFTTYSDNQPGVLIQVYEGERAMTKDNNLLGKFELTGIPPAPRGVPQIEVTFDIDANGIMNVSAVDKSTGKENKITITNDKGRLSKEDIERMVQEAEKYKAEDDVQRDKVSAKNGLESYAFNMKSTVEDEKLKGKISDEDKHKILDKCNEVISWLDKNQTAEKDEYEHQQKDLEKVCNPIITKLYQSDGGMPGGMPDGMPGGFQELGAAPGGGSSGPTIEEVD |
| 4516 | sp|B2JZC5|HSLU\_YERPB | MSEMTPREIVSELDSHIIGQDKAKRAVAIALRNRWRRMQLNEELRHEVTPKNILMIGPTGVGKTEIARRLAKLANAPFIKVEATKFTEVGYVGKEVDSIIRDLTDAAVKMVRHQSIEKMRYRAEELAEERILDVLIPPAKNNWGVPDESQEPSATRQTFRKKLREGQLDDKEIEIDLAAAPMGVEIMAPPGMEEMTNQLQSMFQNIAGQKQKPRKIKIKEALKLLIEEEAAKLVNPEELKQQAIDAVEQHGIVFIDEIDKICKRGQTSGPDVSREGVQRDLLPLVEGCTVSTKHGMVKTDHILFIASGAFQVSSPSDLIPELQGRLPIRVELQALTTDDFERILTEPSASLTEQYKALMATEGVTIEFTREGIRKIAEAAWQVNERTENIGARRLHTVLERLMEDISYDASESSGQSITIDAEYVGKHLDELVADEDLSRFIL |
| 4517 | sp|Q74ZJ0|HSP7F\_ASHGO | MSIPFGLDFGNNSSVLAVARNRGIDIVVNEVSNRSTPSLVGFGQKNRFLGEAGKNKQTSNIKNTVDNLKRIVGLDHAHSDFEEEAKFFSSKLVKMEDGKIGAQVRFAGEQQVFSATQIAAMFMNRAKTIVQDETKGKVTDVALAVPAWYNEAQRYAAADAARIAGLNPVRVVNDVTAAAVSYGVFKTDLPEGEEKPRRVAFVDIGHSSYTCSIGSFKKGELKILGTAYDKHFGGRNFDRAITEHFAEEFKGKYKIDIRENAKAYNRVMTAAEKLKKVLSANTAAPFNIESVMNDVDVSSQLTREELEELVAPLLKRVTEPVTKALAQAKLTPEDIDFVEIIGGTTRIPCLKNAISAAFNKPLSTTLNQDEAIAKGAAFICAIHSPTLKVRPFKFEDIHEYSVSYHWDQQVEDEDHLEVFPAGSSYPSTKLITLHRTGDFTMTAKYTNPEVLPAGMPEEIAKWEITGVKVPEGETSVPVKLKLRCDPSGFHIIENAYTVEDIKVKEQIPPAADAPEDAEPEYKEVTKTVKKDTLQIVAHTFALEEAVLNELIEKENELAAQDKLVAETEDRKNTLEEYVYTLRGKLDEEYAAFASDEEKTKLKDMLAKAEEWLYDEGYDSTKAKYIAKYEELASLGNVIRGRYMAKEEEKRQALRAKQEAAQMAEMAEKLAAQRAAEQKAQESKAESDKDAEGDIDLD |
| 4518 | sp|O74225|HSP88\_NEUCR | MSVVGVDFGALNTVIAVARNRGVDVITNEVSNRATPSLVGFGPKSRYIGEPAKTQEISNLKNTVGCLKRLAGRTLDDPDVAIEQQFISATLVDVNGEVGAEVTYLGEKRKFSATELIAMFMSKIKQTTQAEVKVAVQELVLSVPAWFTDKQRRSILDAAEIAGLRPLRLINDTTAAALGWGITKLDLPGPEEKPRRVAFVDVGYSNYTCSIVEFKKGELSVKSTACDRHFGGRNFDKALLDHLHKEFLGKYKIDIFTNPKAVCRVLAAAEKLKKILSANQQAPLNIESLMNDIDVRAMITRQEFEAMVEPLLAKVHVPLEQALADAKLTKDDIDIIEVVGGGSRVPSVKERIQAFFGKQLSFTMNQDEAIARGCAFSCAILSPVFKVRDFQVQDIINYPIEFTWEKDADIPDEDTSLVVFNKGNVLPSTKILTFYRKQPFDLEARYTNPEELPGKTSPFIGRFSIKGVHATEGPEDFMICKLKARINIHGILNVESAYYVEDQEVEEEVKDENGDVVMEGDKPKTRKVKKQVRKGELPVVSATPSLDPAAKNAAIEREQAMIMEDKLVADTEEKKNELETYIYDLRNKLDDQYADLASEEEKEKIRAKLMEVEDWLYDEGDDATKAVYVAKIEEIRALAGPVVQRYFDKVEAERQALQEKLEAEKAAKKAEEEARKAKEAAEKAAQEGAKDDEMTDADAPKPVVEEA |
| 4519 | sp|Q92BN6|HRCA\_LISIN | MLTERQLLIFRAIIDHFTWTIQPVGSKNLLKEKSLPYSSATIRNEMGVLEEYGFIEKTHSSSGRVPSEKGYRFYVDYLLQPKKLDKSDRQMIRSFFSENYYEMEGLIQNSALMLSDLTNYTSILLGPEATKNHLSGFRFVPINNFQAMLILITDQGHVDNHLVTIPEGTTLSDIERMVNILNERLVGLSLDDLKVQIPMEVKELLGKHVRNYESFMHVFSDSFAQASQQKVYFGGKTNILNQPEFHDINKVREMLHLMEEEQDVYELFRDIPDGLQVKIGRENNNSLMEDCSIITATYNIAGERVGGIVLLGPTRMEYSRMMGLVDVMSRDLTDVLTKLYRDNQN |
| 4520 | sp|C5D4U3|HRCA\_GEOSW | MLTDRQLLILQVIIDDFIRSGQPVGSRTLSKKHEIALSSATIRNEMADLEELGYIEKTHVSSGRVPSEKGYRYYVDHLLSPQRLTQEDIQKIKSIFAERIYELEKVVQKSAQILSDLTNYTSIALGPAVKENKLKRIQIIPLNQQTAVAIIVTDTGHVENHVITVPASVNPSDLEKMVNILNERLIGVPLVDLKDKIYKEVADVLRTHIHNYDSMLKTIVDTLDIPQEEKMFFAGTTNMLNQPEFSDIQKVRSLMKMIEQEKDFYRLLRKHNRKGIQVTIGRENQLSGMENCSLITATYSIGNEQLGTIAILGPTRMEYSRVITILNRVASDLSTALTKWYQNN |
| 4521 | sp|Q1CD55|HSLU\_YERPN | MSEMTPREIVSELDSHIIGQDKAKRAVAIALRNRWRRMQLNEELRHEVTPKNILMIGPTGVGKTEIARRLAKLANAPFIKVEATKFTEVGYVGKEVDSIIRDLTDAAVKMVRHQSIEKMRYRAEELAEERILDVLIPPAKNNWGVPDESQEPSATRQTFRKKLREGQLDDKEIEIDLAAAPMGVEIMAPPGMEEMTNQLQSMFQNIAGQKQKPRKIKIKEALKLLIEEEAAKLVNPEELKQQAIDAVEQHGIVFIDEIDKICKRGQTSGPDVSREGVQRDLLPLVEGCTVSTKHGMVKTDHILFIASGAFQVSSPSDLIPELQGRLPIRVELQALTTDDFERILTEPSASLTEQYKALMATEGVTIEFTREGIRKIAEAAWQVNERTENIGARRLHTVLERLMEDISYDASESSGQSITIDAEYVGKHLDELVADEDLSRFIL |
| 4522 | sp|Q1CU16|HSLV\_HELPH | MFEATTILGYRGEMGGKKFALIGGDGQVTLGNCVVKANATKIRSLYHNQVLSGFAGSTADAFSLFDMFERILESKKGDLFKSVVDFSKEWRKDKYLRRLEAMMIVLNLDHIFILSGTGDVLEAEDNKIAAIGSGGNYALSAARALDHFAHLEPRKLVEESLKIAGDLCIYTNTNIKILEL |
| 4523 | sp|Q02953|HSF\_SCHPO | MIQTASTISSNGGTNQGMESSSANSPEMNGTQNSMSVGMSGSGSSQNRKITQFSNKLYNMVNDSSTDSLIRWSDRGDSFLVIGHEDFAKLVLPRYFKHNNFSSFVRQLNMYGFHKVPHIQQGVLQSDSPNELLEFANPNFQRDQPELLCLVTRKKAGSQPVEESNTSLDMSTISSELQNIRIQQMNLSNELSRIQVDNAALWQENMENRERQRRHQETIDKILRFLASVYLDGKQKPPSKVMPKSRRLLLEAKYPTVSPTNEPSAHSRPSPQGTTANSSSASISSLHNTTPDGEGKYRSVQNGRALNYVSSFNSDSHSPKDYISQSYTNEPGLKKESADSFNNSIDSYISPNQSPNTDVPSLNRDDTTDPKVVNTGDIINMLDDANSIEGSNMNSLSPLLFDYPNSLYPVNNTSSEQHHNSYRGSVSNSQPSGNLSESTNLQPVQPVDYMSNSNPSYGSYNAEDQLTNFHPGYAMDQKRISKLSDGITKQDQNIQALADILGIPLGDGKIDDAGFSANSPTNLNLPVSSDLDSVLNIPPNEDVFPDSNPVFDEFTNISNLTSPIEASNGNTFGSNPVSLPNQQKSVNPSLMTVSSPRQVRKKRKSSIGA |
| 4524 | sp|Q9GKX8|HS90B\_HORSE | MPEEVHHGEEEVETFAFQAEIAQLMSLIINTFYSNKEIFLRELISNASDALDKIRYESLTDPSKLDSGKELKIDIIPNPQERTLTLVDTGIGMTKADLINNLGTIAKSGTKAFMEALQAGADISMIGQFGVGFYSAYLVAEKVVVITKHNDDEQYAWESSAGGSFTVRADHGEPIGRGTKVILHLKEDQTEYLEERRVKEVVKKHSQFIGYPITLYLEKEREKEISDDEAEEEKGEKEEEDKDDEEKPKIEDVGSDEEDDSGKDKKKKTKKIKEKYIDQEELNKTKPIWTRNPDDITQEEYGEFYKSLTNDWEDHLAVKHFSVEGQLEFRALLFIPRRAPFDLFENKKKKNNIKLYVRRVFIMDSCDELIPEYLNFIRGVVDSEDLPLNISREMLQQSKILKVIRKNIVKKCLELFSELAEDKENYKKFYEAFSKNLKLGIHEDSTNRRRLSELLRYHTSQSGDEMTSLSEYVSRMKETQKSIYYITGESKEQVANSAFVERVRKRGFEVVYMTEPIDEYCVQQLKEFDGKSLVSVTKEGLELPEDEEEKKKMEESKAKFENLCKLMKEILDKKVEKVTISNRLVSSPCCIVTSTYGWTANMERIMKAQALRDNSTMGYMMAKKHLEINPDHPIVETLRQKAEADKNDKAVKDLVVLLFETALLSSGFSLEDPQTHSNRIYRMIKLGLGIDEDEVAAEEPSAAVPDEIPPLEGDEDASRMEEVD |
| 4525 | sp|B8FUN6|HRCA\_DESHD | MQMDERKKKILRAIVQDYISTAEPVGSRTIARKFDLGISPATIRNEMSDMEELGLIEQPHTSAGRIPSDAGYRYYVDCLLEKSSIADDVKDVIEKETTKRIAEIQTVIAHSSKLLSELTHLTSIVIGPDKGKSAFNQMHFLPYEPGKAIMVVVKENGVVENQIVEIGENVTAEELQRIANVFNHKMRGHSMEEVKRDMLHEIYSELTRQRFLIDNALELLSAVLSNSPEESSKVYLGGTLNMLNQPEFRDVEKIRNLFQIFEEGAQIIKVLHPQKEGLAVTIGGENKLKELRDCSIITGTYWIDGEPLGTIGLIGPTRMDYGKAMAMVDYMTRTLTELLTVRRRN |
| 4526 | sp|B1JQ76|HSLU\_YERPY | MSEMTPREIVSELDSHIIGQDKAKRAVAIALRNRWRRMQLNEELRHEVTPKNILMIGPTGVGKTEIARRLAKLANAPFIKVEATKFTEVGYVGKEVDSIIRDLTDAAVKMVRHQSIEKMRYRAEELAEERILDVLIPPAKNNWGVPDESQEPSATRQTFRKKLREGQLDDKEIEIDLAAAPMGVEIMAPPGMEEMTNQLQSMFQNIAGQKQKPRKIKIKEALKLLIEEEAAKLVNPEELKQQAIDAVEQHGIVFIDEIDKICKRGQTSGPDVSREGVQRDLLPLVEGCTVSTKHGMVKTDHILFIASGAFQVSSPSDLIPELQGRLPIRVELQALTTDDFERILTEPSASLTEQYKALMATEGVTIEFTREGIRKIAEAAWQVNERTENIGARRLHTVLERLMEDISYDASESSGQSITIDAEYVGKHLDELVADEDLSRFIL |
| 4527 | sp|O34358|HTRA\_BACSU | MDNYRDENRTKGNENEVFLTKENDQSASYSARNVIHDQEKKKRGFGWFRPLLGGVIGGSLALGIYTFTPLGDHDSQDTAKQSSSQQQTQSVTATSTSSESKKSSSSSSAFKSEDSSKISDMVEDLSPAIVGITNLQAQSNSSLFGSSSSDSSEDTESGSGSGVIFKKENGKAYIITNNHVVEGASSLKVSLYDGTEVTAKLVGSDSLTDLAVLQISDDHVTKVANFGDSSDLRTGETVIAIGDPLGKDLSRTVTQGIVSGVDRTVSMSTSAGETSINVIQTDAAINPGNSGGPLLNTDGKIVGINSMKISEDDVEGIGFAIPSNDVKPIAEELLSKGQIERPYIGVSMLDLEQVPQNYQEGTLGLFGSQLNKGVYIREVASGSPAEKAGLKAEDIIIGLKGKEIDTGSELRNILYKDAKIGDTVEVKILRNGKEMTKKIKLDQKEEKTS |
| 4528 | sp|Q1GWJ6|HRCA\_SPHAL | MTTPPITELTTRARDVFRLVVDAYLETGQPVGSRTLSKLATLNLSPASIRNVMQDLEEYGLLASPHTSAGRMPTEQGLRLFVDGMMQVAEPSAEDRAQIEASLSEGGPIESALAQATAALSGLSACAGLVLVPKHERVLKQVAFVPMSERQALVVLVAGDGTVENRIIDVPAGLDPSALVEAGNFISATLSGLTLTEAMARVRREIEAERIAIDRAAQDLVSRGLAIWSSDGADRPVLIVRGQANLLDDSAVGDLDRVRQLLDELETKQDIAQLLDSAREGSATRIFIGSENKLFSLSGSSVIAAPYRGADGRVVGVVGVIGPTRLNYARIVPMVDFTAQSLSRLIR |
| 4529 | sp|Q7V4D3|HRCA\_PROMM | MTEHKRRATPPYHQDPDVTALESLPARQQQVLQATVHHYVDTIEPVGSKTLVQRFGLKASAATVRSAMGALEQRGLLTQPHTSAGRVPSPQGYRHYVDCLLPPPGSAAQHLERELTNLSLRWAALDDLMWQLARRLTDFTGLMSLITRPARPKPTLQAVRLVRSGDRLLVMLVESSNQASHLNLRLPHEASNELEAIEEWTRDQLATTGNGSLDWSSLPPQLNLSGSLLREAIHSHSQAQTPAESDAVFHGMSRLLAQPEFSSSASLQPLLELMDTQPAAVVPVGSEQLGGVWIGAEHPKSALEACSVVQAPYHSSGEGIGQVALVGPMRMAYATAKAAVSSVANHLERLLC |
| 4530 | sp|B2V2I3|HRCA\_CLOBA | MTIDDRKIKILQAIINDYIHTGDPVGSRTIAKKYNLGVGSATIRNEMADLEDMGYLEQPHASSGRVPSNKGYRLYVDSLMENQLLTPEENLKIKQYIIDTAMLEVDKIVRQTSSLLSELTNLTCVIQTPSVNKSFIKSLQLMKVDSTTLVSVIITDAGVMKNHIIRVNSTPTIEELNKINAVINRRLVNLCIEQINLQVINQLKEDLQGYDELFNALLTPLYETLKNAADSPDLIMEGATNIFNYPEYNDIEKAKEMLSLLNDKESLRDLLKTNKDITIRIGEENYKPQAKDCSIIAAEYSFGDRPIGTIGLIGPKRIDYSKVISIMAEIVKELNNILNNQSK |
| 4531 | sp|C5C491|HRCA\_BEUC1 | MSDERRLEVLRAIVRDYVSTREPVGSRALVERHALGVSPATIRNDMAALEESGYIAQPHTSAGRVPTDKGYRLFVDRLSTLKPLTPAERRAIEHLLDEAVDLDDVVDRTVRLLAQITHQVAVVQYPSLRRTTLRHIELVPMAPGRLLVVMIMDTGRVEQRTIELAADAAPDEAVVAELRARLNAVGAGRRMPRLGVELEMLPTYFAPADRPFVDAVNAVIAEALAEETEERIVMAGTANLARSDTDFPRTISPVLEALEEQVVLLRLLSEMALDAEEVRSERGDGISVRIGHENRHAGLAETSIVASGYGGVAADDAVAYLGVLGPTRMDYPTTMASVRAVARYLSRALGG |
| 4532 | sp|Q552K9|HSPG2\_DICDI | MATIFDILKTLNNNNNNINNNKIESCKRQYTVNKRIDIIPSMDVTMTNDKLIIETELPGVSKNDIDINIKDSILIIQGEKKNNIIKLQQQQQQQSEKSSQSTNNKDDDEPSIEEYEDDTKLKSNLNKNTENKDENKTTSSITNKKFISERSFGNFKRYLNLSEILYQLDLNSINTQFENGLLTITINKKSDNFQIKLKSI |
| 4533 | sp|Q7CPF1|IBPA\_SALTY | MRNFDLSPLYRSAIGFDRLFNLLENNQSQSNGGYPPYNVELVDENHYRIAIAVAGFAESELEITAQDNLLVVKGAHADEQKERTYLYQGIAERNFERKFQLAENIHVRGANLVNGLLYIELERVIPEANKPRRIEIN |
| 4534 | sp|B1JGZ5|IBPA\_YERPY | MRNSDLAPLYRSAIGFDRLFNLLESGQNQSNGGYPPYNVELVDENNYRIAIAVAGFAEQELEITTQDNLLIVRGSHANEPAQRTYLYQGIAERNFERKFQLAEHIKIKGANLVNGLLYIDLERLVPESLKPRRIEIK |
| 4535 | sp|C6DGL1|IBPB\_PECCP | MRNYDLSPLLRQWIGFDKLASSMQGSQEPIDFPPYNIEKKDDNHYRITLALAGFRQSDLDIEVEGPRLTVKGSPAPTEKAVEYLHQGLVFKPFTLSFTLAEHLHVSDAHFENGLLHIDLVRDVPEALQPQRIAIGGGRPALNQQPAEDA |
| 4536 | sp|Q12385|ICT1\_YEAST | MWTNTFKWCSKTEKETTTADAKVCASVQGLKALQQQIMDSTTVRGSVNNTMTPGGINQWHFHNKRANKVCTPTVLIHGYAASSMAFYRTFENLSDNIKDLYAIDLPANGASEAPALQVNKTKKIKSLRFKHIEDDVVIPVIEKRPPAEDIKSHLEQYESYFVDRIEQWRKDNKLRKINVVGHSFGGYISFKYALKYPDSIEKLCLISPLGVENSIHAITHKWEPNTTYPLTFTDPSSRYYTRKLNVPRFIFENQLNVLKWMGPIGSKLCSNYISTAYVKVPDQIYKDYLLHSFVGKNQTVQPQTIKVFTHLFERNLIARDPIINNVRFLNPATPVMFMYGEHDWMDKYAGYLTTESMLKNKAKASYVEVPDAGHNLFLDNPQHFASSLVSFLSK |
| 4537 | sp|Q8XBA4|IRAD\_ECO57 | MMRQSLQAVLPEISGNKTSLLRKSVCSDLLTLFNSPHSTLPSLLVSGMPEWQVHNPSDKHLQSWYCRQLRSALLFHEPRIAALQVNLKEAYCHTLAISLEIMLYHDDEPLTFDLVWDNGGWRSATLENVS |
| 4538 | sp|B7L534|IRAP\_ECO55 | MKNLIAELLFKLAQKEEESKELCAQVEALEIIVTAMLRNMAQNDQQRLIDQVEGALYEVKPDASIPDDDTELLRDYVKKLLKHPRQ |
| 4539 | sp|Q57JY6|IRAD\_SALCH | MMTPTIPVALFDRLLVEGISPHELVRRKLMCLFNSCSVPGGETLPPLLTRGMPEWHEVNVGDKRVLNWFCRELRAAILRYEPSINMLKVSVKDAHHQTLALSLEAMLQDESEPLRLEIAYSNGRWR |
| 4540 | sp|A8A853|IRAD\_ECOHS | MMRQSLQAVLPEISGNKTSLLRKSVCSDILTLFNSPHSALPSLLVSGMPEWQVHNQSDKHLQSWYCRQLRSALLFHEPRIAALQVNFKEAYCHTLAISLEIMLYHDGEPLTFDLVWDNGGWCSAMLENVS |
| 4541 | sp|P46514|LE10\_HELAN | MASQQGQQTRKIPEQEKKDLDQRAAKGETVVPGGTRGKSLEAQERLAEGRSKGGQTRKDQLGTEGYKEMGKKGGQTTGDKSAGEREEEEEED |
| 4542 | sp|A0A0E4AVP3|LEAM\_RAMVA | MFLARNAGRAGYRGVVAYQQAASFSVSSAKAAGSRSSGGSDAGDYAREAAEHAKAGLKDLKNEASWKAKGVANQAAGAFERAKDTVKEGVHDMKRSGSRVFEQGQEEVEAGAQHAKAGYQSAKNAAQDTAATLKDKAGSAWNQAKHVVEDKGEDVVEAVKDTASKVWGKAKHVAEDVKENAQSPGGIADKASDVWSAAKDKAADVLSGAKHTAENLAHKAQAAIHDATASSGSQSQSQSQSQYRQGQQQGRQDQQQSKSQWGQTSPQSPDGFRPQAGQGPQGGKGPGQAGGRR |
| 4543 | sp|A5IXT5|DNAK\_MYCAP | MAKEVIIGIDLGTTNSVVSIVDNGSPVVLENLNGKRTTPSVVSFKDGEIIVGDNAKNQIETNPDTVASIKRLMGTSKTVHVNNKDYKPEEISAMILEHLKKYAEEKIGHKVEKAVITVPAYFDNAQREATKIAGKIAGLEVLRIINEPTAAALAFGLDKVKKEQKILVFDLGGGTFDVSILELAEGTFEVLSTAGDNRLGGDDWDNEIVKWLIDLIKKDYKTDVTNNKMAMARLKAAAEKAKIDLSSSQQATIMLPFLVMQQGSEPISVEATLRRSQFEEMTSHLVERCRKPIETALADAKIKISDLDDVILVGGSTRIPAVQQLVESILNKKANRSVNPDEVVAMGAAIQGAVLAGEIDDVLLVDVTPLTLGIETAGGIATPLIPRNTRIPITKSEVFTTFEDNQSEVTIRIVQGERPLASENKLLGQFNLGGIRVAPRGVPQIEVSFKIDANGITTVLAKDKDTNKEQSITIKNSSKLSESEIEEMIKDAEKNREADAKRAEEISTIIQAENLVNSLEKEMNDGNIVIPEEEKAKIADYIKEVKELINNKDVEQLKKKIDELNAAYNMAKSAAASSNKDDSLNNNSSSNNDEETFE |
| 4544 | sp|A6W2D2|DNAK\_MARMS | MGRIIGIDLGTTNSCVAVLDGEKARVIENAEGDRTTPSIVAFAEDGEVLVGQSAKRQAVTNPTNTLFAVKRLIGRKFKDDVVQKDISMVPYKIIAADNGDAWVEVKGDKKAPPQISAEVLKKMKKTAEDYLGEKVTEAVITVPAYFNDSQRQATKDAGKIAGLEVKRIINEPTAAALAYGLDKSSGDSTIAVYDLGGGTFDISIIEIADVDGEKQFEVLSTNGDTFLGGEDFDMRVIEYLAAEFKKSSGIDLHNDPLALQRLKEAGEKAKVELSSSSQTEVNLPYITADATGPKHLNVKLTRSKLESLVEELVLKSLEPCRQALKDADLTASDIDEVILVGGQTRMPLVQAKVTEFFGKEPRKDVNPDEAVAIGASIQGAVLSGDVKDVLLLDVTPLSLGIETMGGVMTTLIEKNTTIPTKKSQTFSTAEDNQNAVTIHALQGERKQASQNKSLGRFDLADIPPAPRGVPQIEVSFDIDANGILSVSAKDKATGKEQSIVIKSSSGLSDEEVEKMVQDAEANAEEDRKFEELVQVRNTADGMIHATRKTLVDAGDKATAEEKEAIETAITELEEALTSNDKEKIEEKTNALTQASGTLAQKMYAEAEAGAQPAEGEQAKSQDDAVDAEFEEVKEDKK |
| 4545 | sp|Q5LG30|DNAK\_BACFN | MGKIIGIDLGTTNSCVSVFEGNEPVVIANSEGKRTTPSIVAFVDGGERKVGDPAKRQAITNPTRTIFSIKRFMGENWDQVQKEIARVPYKVVKGDNNTPRVDIDGRLYTPQEISAMILQKMKKTAEDYLGQEVTEAVITVPAYFSDSQRQATKEAGQIAGLEVKRIVNEPTAAALAYGLDKAHKDMKIAVFDLGGGTFDISILEFGGGVFEVLSTNGDTHLGGDDFDQVIIDWLVQEFKNDEGADLTQDPMAMQRLKEAAEKAKIELSSSTSTEINLPYIMPVGGVPKHLVKTLTRAKFESLAHNLIQACLEPCKKAMQDAGLSNSDIDEVILVGGSSRIPAVQKLVEDFFGKTPSKGVNPDEVVAVGAAVQGAVLTDEIKGVVLLDVTPLSMGIETLGGVMTKLIDANTTIPARKSETFSTAADNQTEVTIHVLQGERPMAAQNKSIGQFNLTGIAPARRGVPQIEVTFDIDANGILKVSAKDKATGKEQAIRIEASSGLSKEEIEKMKAEAEANAEADKKEREKIDKLNQADSLIFQTETQLKELGDKLPADKKAPIEAALQKLKDAHKAQDMTTIDSAMAELNTAFQAASAEMYAQSGAQGGAQAGPDMNAGQSNAGQNNGKQDDNVQDADFEEVK |
| 4546 | sp|P81875|DNAK\_ACICA | AKIIGIDGLTTNSWVAVLESDKVHV |
| 4547 | sp|P50021|DNAK2\_SYNE7 | MAKVVGIDLGTTNSCVAVMEGGKPTVIANAEGFRTTPSVVAFAKNQDRLVGQIAKRQAVMNPENTFYSVKRFIGRRPDEVTNELTEVAYKVDTSGNAVKLDSSNAGKQFAPEEISAQVLRKLAEDASKYLGETVTQAVITVPAYFNDSQRQATKDAGKIAGLEVLRIINEPTAAALAYGLDKKSNERILVFDLGGGTFDVSVLEVGDGVFEVLATSGDTHLGGDDFDKKIVDFLAGEFQKNEGIDLRKDKQALQRLTEAAEKAKIELSSATQTEINLPFITATQDGPKHLDLTLTRAKFEELASDLIDRCRIPVEQAIKDAKLALSEIDEIVLVGGSTRIPAVQAIVKQMTGKEPNQSVNPDEVVAIGAAIQGGVLAGEVKDILLLDVTPLSLGVETLGGVMTKLIPRNTTIPTKKSETFSTAADGQTNVEIHVLQGEREMASDNKSLGTFRLDGIPPAPRGVPQIEVIFDIDANGILNVTAKDKGSGKEQSISITGASTLSDNEVDRMVKDAEANAAADKERRERIDLKNQADTLVYQSEKQLSELGDKISADEKSKVEGFIQELKDALAAEDYDKIKSIIEQLQQALYAAGSSVYQQASAEASANAQAGPSSSSSSSSGDDDVIDAEFSESK |
| 4548 | sp|Q0AKB3|DNAJ\_MARMM | MSKRDFYEVLGVDKTADEKTLKSAYRKQAMKYHPDRNPGDAEAEAQFKVVGEAYSVLSDPNKRAAYDRMGHAAFEQGGGMGGGQGPFGGGGGAADFADIFEQVFGEAFNMGGGGGRRGGRGQAGPARGSDLRFDMEISLEDAFNGKDETIKVPTAMNCERCDGQGNEPGTELETCGTCQGAGRIRRSQGFFTMEQTCPQCGGRGQYVKTPCNDCDGVGRVRKTRTLNVTVPAGVEDGTRIRLAGEGEAGARGGPRGDLYIFISVREHEIFERDGPNLYCRTPASMVQAALGCTIQVPTIEGGKAEMKIAEGAQTGKRMRMRGKGMPRLRGGPRGDMIVELFVETPRNLCDRQKELLKEFCDLSGEGCNPDSAGFFNKVKQFWDEVTTDDGRPNAG |
| 4549 | sp|Q72GN6|DNAJ\_THET2 | MKDYYAILGVSREASQEEIKKAYRRLALKYHPDRNPGDKEAEERFKEINEAYAVLSDPKKRAAYDRGHLEAPEYRPEDLFDLFFQEVFGVRGHRRPPRGEDLEAEVEVELQDLLHGAEKEVRYTRLVPCEACGGEGGRRTPCPTCRGQGVVESYRQSFFGTVVTRTACPHCKGRGYLLAETCPACRGRGRVPREERVRVQVPPGMDEGHLLRVPGYGNLGPGGPGDLYLRIRVRPHPHLERQGPDLVYRLRLGLAQAALGARVVVPGLEGPIPLDIPPGTGHGEVFALEGGGLPLPGGRGRGTLRVVVELAVPKKLSPKAQKLLRAYAEEVGEEVAPEGFWERLKGFFRK |
| 4550 | sp|Q6G1F8|DNAJ\_BARQU | MKVDYYEILGVTRECDDKKLKSAFRKLAMQYHPDRNAGDKEAERRFKEIGEAYEVLKDPQKRAAYDRFGHAAFENNNQGGGNPFGGFAAGGFSDIFEDFFGEIMGGGHRKRSDGRERGADLSYNMEVTLEEAFSGKTAQINIPSSIVCDSCEGSGAKKGSKPQICGTCHGAGRVRAAQGFFSIERTCHACNGRGEVITDPCPKCQGTRRVEKNRSLSVNIPAGIEDGTRIRLSGEGDAGIRGGPNGDLYIFLSVKPHEFFQREGADLHCRIPLSMVTAALGGEFEVSDLDGIKARVKIPEGTQNGRQFRLKGKGMPMLRRQQVRGDLYIHITIETPQKLTQEQRELLQKFEKLSNHENSPQSHGFFSRMKEFFENISGQN |
| 4551 | sp|Q3AF08|DNAK\_CARHZ | MGRIVGIDLGTTNSCIAVMEGGEVIVIPNAEGGRTTPSVVAFGKNGERIVGQVAKRQAITNPERTVISIKRHMGTNYRVKIDDKEYTPQEISAMILQKLKQDAEAYLGEKIEKAVITVPAYFTDAQRQATKDAGRIAGLEVLRIINEPTAAALAYGLDKEGEQTILVYDLGGGTFDVSILEIGDGVFEVKATAGNNRLGGDDFDQRIIDWLVENFKKEHGIDLRNDKMAMQRLKEAAEKAKIELSGVLETQINLPFIAANQNGPLHIDVTLTRAKFNELTADLVEATMGPTRQALADAGLKPEDIDKILLVGGSTRIPAVQEAIRKFFNKEPHKGINPDECVAIGAAIQAAVLAGEVKDVVLLDVTPLSLGIETLGGVFTKLIERNTTIPTSKSQIFTTAADNQTSVEIHVLQGERPMAADNVSLGRFTLTGIPPAPRGVPQIEVRFDIDVNGIVHVSAKDLGTGREQSITITNTSNLSEAEIKRMVEEAERYAEEDRKRKEEVETRNQADSLIYQAEKTLKDFKDKANPDLVARVEKAIAELREAMNSKDVQLMRAKMEELTKPLYELTSSIYQQSANQNQTQTGTNTQGNVYDADYKVNDDK |
| 4552 | sp|A5CX57|DNAJ\_VESOH | MSQRDFYEILGIAKNTDVKQIKKAYKRLAMKHHPDRVKDNKELAEKKFKEIQKAYAILSDTQKRQAYDQFGHAGINGNAGATSGTSFSSSGFGDIFGDIFGGGSQQSNNRGSDLRYDLEIDLKEAAQGTTVKIRIPKNETCDTCSGTGAKPGTSVKTCLTCGGAGQIQIQQGFFAVQRPCNACSGTGQRIESTCNNCHGKGVVHKQKTLSVKIPAGVDTGNRIRLSGEGEAGIRGGLSGDLYVQIHVKKHAIFERQDSDLYCEVPIDFATAVLGGQVEVPTLDNKLNIKVPAGTQTGKLFRLRSKGITHLQHGGSGDVICKVKLETPINLSKKQQDLLQKFSNSCGKKHHPESNSFFGKMKSFFE |
| 4553 | sp|Q6A997|DNAJ1\_CUTAK | MSNDYYEILGVSHDASADEIKKAYRRKAMKLHPDVAGPGSEEEFKKVQEAYEILQDPQKRAVFDRGGDPNARMGGFGEGGFSSAGFDFTNLVDAMFGGSSPFGSGGGRGPRSRTRRGQDALVRMRLSLAEAVFGVTKSLEVDTAVVCPKCQGKGAQSGSEPVTCDTCQGRGEVITVQRSFLGDIRTSQPCPTCHGYGTVIPDPCQECSGEGRVRTTRTINVKIPAGVADGNRIHLDSRGEVGPGGGPAGDLYIEMTVSPHDVFTRHGDDLEMVVTIPMTAAALGTKVPMHTLEADREDFAEDTKTVTVEVPAGTQSGTRIVVSERGVPRLRRNGRGDLGVTFIVQTPTKLDSHQKDLLRQLAEAREETNASASVEKSGGRGMFSRIKEAFGG |
| 4554 | sp|A8EXP6|DNAJ\_RICCK | MSQDYYQILGVSKTASSAELKKAYHKLAKQYHPDNAAAGDTNAEKKFKEINAAYDVLKDEQKRAAYDRFGHDAFQNQQSRRGAGGGTSSFHPDINDIFGDFFSDFMGGSRRSRPTSSKVRGSDLKYDLTINLEEAFHGIEKNISFSSEVQCDTCHGNGSEKGETITTCDACSGVGVTRIQQGFFTIEQTCHKCQGNGQMIKNPCKKCHGMGRYHKQRNLLVNIPAGVENGTRIRHTGEGEAGIRGGNSGDLYVDISIKPHDIYKVDGANLHCKLPISFVNAALGGEVEVPIIEGGKVNLTIPAGTQNGDQLRLRSKGMSKMRSTIRGDMLTHIHVEVPKNLSKRQRELLEEFKKESMSEKENDSSFFNKMKSLWS |
| 4555 | sp|B4F2V6|DNAJ\_PROMH | MAKRDFYEVLGLSKTADEKEIKRAYKRLAMKYHPDRNQGDKDSESKFKEIKEAYEVLSDPQKRAAYDQYGHAAFEQGGFGGQGGGGFGGADFSDIFGDVFGDIFGGGRRQQRAARGSDLQYNMDLTLEEAVRGITKEIRIPTLETCDKCHGSGAKEGTSAETCSTCHGAGQVHLRQGFFTVQQPCPTCHGRGKVIKEPCSKCHGDGRVERYKTLSVKIPAGVDTGDRIRLSGEGEAGEQGAPAGDLYVQVHVRQHHIFERDGNNLYCEVPINFAVAALGGEIEVPTLDGRVKLKIPAETQTGKMFRMKGKGVKSVRSHGVGDLMCRVVVETPVKLNEKQKQLMEQLGESFGGKGGEKNTPRSKSFLDGVKKFFDDLTK |
| 4556 | sp|Q49762|DNAJ2\_MYCLE | MARDYYGLLGVSRNASDADIKRAYRKLARELHPDINPDEAAQAKFKEISMAYEVLSDPEKRRIVDLGGDPMENAAASPSGFGGFGGLGDVFEAFFGGSSASRGPIGRVRPGSDSLLPMWLDLEECATGVTKQVTVDTAVLCDRCQGKGTNGDSAPIPCDTCGGRGEVQTVQRSLLGQMVTARPCPTCRGVGVVIPDPCCQCVGDGRVRARREITVKIPSGVGDGMRVRLAAQGEVGPGGGPAGDLYVEVHEQAHDIFVRDGDDLHCTVSVPMVDAALGTTITVDAILDGMSEIDISPGTQPGSVIELRGQGMPHLRSNTRGNLHVHVEVMVPTRLDQHDTELLRELKRRRSRDVAEVRSTHAAGGGLFSRLRETFTNR |
| 4557 | sp|Q52702|DNAJ\_RHOCA | MAKVDFYEVLGVSKGASAEEIKKAYRSKAKELHPDRNQGQSAAEAQFKEVNGAYDVLKDGDKKAAYDRYGHAAFEGGMGGGGPRGPYGQGADFSSAFSDVFEDLFGDFMGGRGGPGGGGRRVRRRGSDLRYNMRVTLEEAFKGAQKTITVPGSAACGSCNGTGAEGGAEPQTCPTCSGLGKVRAQNGFFTVERTCPTCGGQGQVVKNPCRVCHGSGRIEKERTLSVNIPAGVETGTRIRLAGEGEAGMRGGPSGDLYIFIEVREHAIFQRDGVNLFCRVPVSMVSAALGGEVEVPTIDGGRSKVKVPVGSQSGRQMRLRGKGMPALRGGGIGDMVIELAVETPVNLTARQKELLDEFQRIQAENNPEGASFFQKVKSFWDGMKG |
| 4558 | sp|Q9FFN7|DGK2\_ARATH | MMEVGFSLIQWLISSGADSPFIFGWLVTGSVGLLAVIYTFLKWQKKTSLNWVKAAAREKKKVWKRLRVPLSHHQWTDDYGYGQQPSTCCVCLYSLVPGQNVSNKASLSIPVHRCAVCGVAAHFYCSSSAAKDCKCVAQAGSDHVRHHWSERWVNMDDNADMTAFCFYCDEPCGIPFIEASPMWHCLWCQRLIHVKCHMIMSKESGDACDLGSLRRVILSPVHVKLNEANGVDGVLTTIKNELASIRGHVRRKRHRGKNGNGQSLNGKLLEDSVSDPVKTVVNGLVVKKLRRDRSIDCLKQVSDMPNAKGLQNGIGGHKRNKSAALNFMKKFSLVDLPPDARPLLVFINAKSGGQLGPFLHRRLNMLLNPVQVFELGSCQGPDAGLDLCSKVKYFRVLVCGGDGTVAWVLDAIEKRNFESPPPVAILPLGTGNDLSRVLQWGRGISVVDGQGSLRTFLQDIDHAAVTMLDRWSVKIVEESTEKFPAREGHKFMMNYLGIGCDAKVAYEFHMMRQEKPEKFCSQFVNKLRYAKEGARDIMDRACADLPWQVWLEVDGKDIEIPKDSEGLIVLNIGSYMGGVDLWQNDYEHDDNFSIQCMHDKTLEVVCVRGAWHLGKLQVGLSQARRLAQGKVIRIHVSSPFPVQIDGEPFIQQPGCLEITHHGQVFMLRRASDEPRGHAAAIMNEVLLDAECKGVINASQKKVLLQQMALHLS |
| 4559 | sp|Q5ZTY3|DNAK\_LEGPH | MAKIIGIDLGTTNSCVAVMEGDKPKVIENSEGHRTTPSIVAFTDDNEILVGQSAKRQSVTNPEKTLFAIKRLIGRRFDDPIVQKDIKMVPYKIMKADNGDAWVRVKDQDKAPPQISAEVLRKMKKTAEDYLGEEVKEAVITVPAYFNDSQRQATKDAGRIAGLEVKRIINEPTAAALAYGMDKKRGDSVIAVYDLGGGTFDISIIEIAEVDGEHQFEVLATNGDTFLGGEDFDLALIEYLASEFKKDTGIDLHNDPLALQRLKEAAEKAKIELSSAQQTDVNLPYITADASGPKHLNIKLTRAKLESLVEKLVERTIEPCKTALKDAGLTVSQINEVILVGGQTRMPLVQKTVEEFFGKEPRKDVNPDEAVAVGAAIQAAVLSGEVKDILLLDVTPLSLGIETMGGVMTKLIEKNTTIPTKATQVFSTADDNQTAVTVHVLQGEREQASANKSLGRFDLRDIPPAPRGVPQIEVTFDIDANGILNVSAKDKATGKAQSIVIKASSGLSEEEVAAMVKDAQSHAEEDKKFKEMAELRNQADSLIHSCEKSMKDLADELSEDEKRGIETAISELKEAVQGTDKARIEDKLKVLTDASAKMAERIYAKKSSEGQAAQGQTQSQESTKPAEEGVVDAEFEEVKEEDKK |
| 4560 | sp|B5BLH9|DNAJ\_SALPK | MAKRDYYEILGVSKTAEEREIKKAYKRLAMKYHPDRNQGDKEAEAKFKEIKEAYEVLTDAQKRAAYDQYGHAAFEQGGMGGGFNGGADFSDIFGDVFGDIFGGGRGRQRAARGADLRYNMDLTLEEAVRGVTKEIRIPTLEECDVCHGSGAKAGTQPQTCPTCHGSGQVQMRQGFFAVQQTCPHCQGRGTLIKDPCHKCHGHGRVEKSKTLSVKIPAGVDTGDRIRLAGEGEAGEHGAPAGDLYVQVQVKQHPIFEREGNNLYCEVPINFAMAALGGEIEVPTLDGRVMLKVPSETQTGKLFRMRGKGVKSVRGGAQGDLLCRVVVETPVGLSEKQKQLLKDLQESFGGPTGEKNSPRSKSFFDGVKKFFDDLTR |
| 4561 | sp|B8DQW8|DNAJ\_DESVM | MSQRDYYEVLGVARDASEDEIKRQYRKLALQYHPDRNPDNPEAEQMFKEAAEAYDVLRDADKRARYDRFGHAGLNGNGGGHGFANADDVFAHFSDIFGDLFGFATGSSRMRGPRPQAGADLRYNLSISFRQAAKGDEVTLRLPKKVTCDECNGSGAAAGTKPETCRHCGGNGQIRQSQGFFQIAVPCPVCRGEGQVIPTPCPKCKGSGILQQVRELAVRIPAGVDTGNRLRLRGEGEPGLHGGPPGDLYVVVSVEQDKTFRRQGQDLVITHEVSFVQAALGDRIEVPTLDDPVTLDIPKGTQSGEVFRLTDQGLPYLGHHQKGDLLVEVRVLTPVSLTKKQEELLREFAKLEEGKPFEKVKKVARKIGKAMGME |
| 4562 | sp|B9KFK6|DNAJ\_CAMLR | MELNYYEILEISQTSDKETIKKAYRKMALKYHPDRNQGDKEAEEKFKLVNEAYEVLSNDEKRSIYDRYGKEGLKGQAGGFGGFGDVDLGDIFSSFFGDGFGFGSSTRKKEKGNKYPQDLKITTKISFKEAVFGCKKKIDFSYKSFCKSCKGSGSENGKLDTCPHCGGKGQVGVRQGFMTFVQSCDHCKGSGQIIKDKCKTCHGNGYEEIKDHIELDIPEGIDSGMSLRVQNKANELPNSSQRGDLYIKIIVEDDDKFIRHDDDIYTIVPVFFTQAALGKTIKVSTIRGEADLKLPVGAKDKQKFELTNEGVKNIHNGKLGSHIVQIEIKFPKNLTDEQKNLLLQLEKSFGLADEEAFIEQESLFDKIKSWFSH |
| 4563 | sp|B7LVP7|DNAJ\_ESCF3 | MAKQDYYEILGVSKTAEEREIKKAYKRLAMKYHPDRNQGDKEAEAKFKEIKEAYEVLTDSQKRAAYDQYGHAAFEQGGMGGGGFGGGADFSDIFGDVFGDIFGGGRGRQRAARGADLRYNMELTLEEAVRGVTKEIRIPTLEECDVCHGSGAKPGTQPQTCPTCHGSGQVQMRQGFFAVQQTCPHCQGRGTLIKDPCNKCHGHGRVERSKTLSVKIPAGVDTGDRIRLAGEGEAGEHGAPAGDLYVQVQVKQHPIFEREGNNLYCEVPINFAMAALGGEIEVPTLDGRVKLKVPGETQTGKLFRMRGKGVKSVRGGAQGDLLCRVVVETPVGLNEKQKQLLQELQESFGGPTGEHNSPRSKSFFDGVKKFFDDLTR |
| 4564 | sp|Q9M1G8|DJ1F\_ARATH | MGSMAQKSVLMLCGEFMEAYETIVPLYVLQAFGVSVHCVSPGRKTGDKCVMAAHDLLGLEIYTELVVDHLTLNANFDGVIPDQYDAIIIPGGRFTELLSADEKCVSLVARFAELKKLIFTSCHSQLFLAAAGLLTGGMKCTAFESMKPFIELSGGAWWQQPGVQTLFEITDCVKDGSFMSTMGWPTLGHSLKVLLESLGSKISSSKENHQTSLLFLIGDCVEDYSINVPFKAFQALGCKVDAVTPTKKRGEKCATIVHDLEDGRQLPTEKFGHNFYVTVAWDDVSVDDYDCIVVPGGRSPELLVMNPKAVELVRKFVEKGKFVAAIGMGNWLLAATGALKKKRCASSYGTKVAVKVAGGEIVESERCVTDDKLVTAASTSDLPAFLYALSTALGLSVVF |
| 4565 | sp|Q5M1T8|DNAK\_STRT1 | MSKIIGIDLGTTNSAVAVLEGTEPKIIANPEGNRTTPSVVSFKNGEIIVGDAAKRQAVTNPDTVISIKSKMGTSEKVSANGKEYTPQEISAMILQYLKGYAEEYLGEKVTKAVITVPAYFNDAQRQATKDAGKIAGLEVERIVNEPTAAALAYGLDKTDKEEKILVFDLGGGTFDVSILELGDGVFDVLATAGDNKLGGDDFDQKIIDYMVEEFKKENGIDLSTDKMALQRLKDAAEKAKKDLSGVTSTQISLPFITAGEAGPLHLEMTLTRAKFDDLTRDLVERTKTPVRQALSDAGLSLSDIDEVILVGGSTRIPAVVEAVKAETGKEPNKSVNPDEVVAMGAAIQGGVISGDVKDVVLLDVTPLSLGIETMGGVFTKLIERNTTIPTSKSQVFSTAADNQPAVDIHVLQGERPMAADNKTLGRFQLTDIPAAPRGVPQIEVTFDIDKNGIVSVKAKDLGTQKEQTIVIQSNSGLTDEEIERMMKDAEANAEADAKRKAEVELRNEVDQAIFATEKTIKETEGKGFDTERDAAQSALDELKKAQESGNLDDMKAKLEALNEKAQALAVKLYEQAAAAQQAQAGAEGAQATDNSGDDVVDGEFTEK |
| 4566 | sp|Q65XA0|DHAR1\_ORYSJ | MGVEVCVKAAVGHPDTLGDCPFSQRVLLTLEEKKVPYEMKLIDVQNKPDWFLKISPEGKVPVFNGGDGKWIPDSDVITQVIEEKYPTPSLVTPPEYASVGSKIFSCFTTFLKSKDPNDGSEKALLTELQALEEHLKAHGPFINGQNISAADLSLAPKLYHLQVALEHFKGWKIPEDLTNVHAYTEALFSRESFIKTKAAKEHLIAGWAPKVNA |
| 4567 | sp|Q0JQF7|DRE2A\_ORYSJ | MERGEGRRGDCSVQVRKKRTRRKSDGPDSIAETIKWWKEQNQKLQEENSSRKAPAKGSKKGCMAGKGGPENSNCAYRGVRQRTWGKWVAEIREPNRGRRLWLGSFPTALEAAHAYDEAARAMYGPTARVNFADNSTDANSGCTSAPSLMMSNGPATIPSDEKDELESPPFIVANGPAVLYQPDKKDVLERVVPEVQDVKTEGSNGLKRVCQERKNMEVCESEGIVLHKEVNISYDYFNVHEVVEMIIVELSADQKTEVHEEYQEGDDGFSLFSY |
| 4568 | sp|Q8W3L9|EIL2\_ORYSJ | MMGAAVTMVDRRMAFAAEADVDSKAAFGFFGGECFVGEGDLVNPAPPPPQQQQVHEGGFAAEDESDGDDDDDDDDDVDDIEELERRMWRDRVRHKRLKELQQSRAGRESRAGDAGGGGRQQRQSQEQARRKKMSRAQDGILKYMLKMMEVCNAQGFVYGIIPEKGKPVSGASDNLRSWWKEKVRFDRNGPAAIAKYQADNAVPGCDGDAGGAAPAGPHSLHELQDTTLGSLLSALMQHCDPPQRRFPLEKGVPPPWWPEGSEAWWPEAGVPKELGPPPYKKPHDLKKAWKVAVLTAVIKHMSPDVDKVRRLVRQSKCLQDKMTAKEIVTWLAVLKQEEDLYLKLHPGALPPPLSAASFNASVSGEYDVEGVDGDEAGNNNLQKAQNDATAFMDLTTTMDAALSNNKFLIMPLMKEEAIDVDFIQKRSEPELMLSSDSHARVYTCGNVQCPHSNYALGFLDRNERNAHQYACKHNAAAAAAESKPPPPHIFEPLGSFDFDLPVDGQRCLAGLMTMYDNDVAAATQMHHHHHQQQQANFFIRDDAPFGGDVAATAAAAPEFRFSSNFNVTGGGAVDYGGAMQQPPAKYAGSNWFY |
| 4569 | sp|P52555|ERP29\_RAT | MAAAVPGAVSLSPLLSVLLGLLLLSAPHGASGLHTKGALPLDTVTFYKVIPKSKFVLVKFDTQYPYGEKQDEFKRLAENSASSDDLLVAEVGISDYGDKLNMELSEKYKLDKESYPVFYLFRDGDFENPVPYSGAVKVGAIQRWLKGQGVYLGMPGCLPAYDALAGQFIEASSREARQAILKQGQDGLSGVKETDKKWASQYLKIMGKILDQGEDFPASELARISKLIENKMSEGKKEELQRSLNILTAFRKKGAEKEEL |
| 4570 | sp|Q43207|FKB70\_WHEAT | MDDDFDIPAGDDMMMGDGMGDFGGAEGPGMKVGEENEIGKQGLKKKLLKEGEGWDTPEVGDEVEVHYTGTLLDGKKFDSSRDRDDTFKFKLGQGQVIKGWDQGIKTMKKGENALFTIPPELAYGESGSPPTIPANATLQFDVELLSWTSVRDIAKDGGIFKKILKEGDKWENPKDPDEVFVKYEARLEDGTVVSKSEGVEFTVKDGHLCPALAKAVKTMKKGEKVLLAVKPQYGFGEMGRPAAGEGGAVPPNASLVIDLELVSWKTVTEIGDDKKILKKVLKEXEGYERPNEGAVVTVKITGKLQDGTVFLKKGHDEQEPFEFKTDEEAVIEGLDRAVLNMKKGEVALVTIPPEYAYGSTESKQDAIVPPNSTVIYEVELVSFVKDKESWDLNNSEKIEAAGTKKEEGNALFKSGKYARASKRYEKAAKFIEYDTSFSEDEKKQSKQLKITCNLNNAACKLKLKDYKQAEKLCTKVLELDSRNVKALYRRAQAYTQLADLELAEVDIKKALEIDPENRDVKLTYKTLKEKIKEINKKDAKFYSNMFSKMTKPSAEESKA |
| 4571 | sp|P80875|G16U\_BACSU | MTISLAKGQKVDLTKTNPGLSKVVVGLGWDTNKYDGGHDFDLDSSVFLLDAAGKCASPNDFIFYNQLEGGNGSVVHSGDNLTGAGEGDDENVKVNLSAVPANIDKISFVITIHDAEARSQNFGQVSNAFVRIVNEETNEELIRYDLAEDFSIETAIIAGELYRHNGEWKFSAIGSGYQGGLARIATDYGLQVG |
| 4572 | sp|Q10105|GCN1\_SCHPO | MSVEEPGIEAHGHKDRMLYAMLLSKDTSLAFLGSKKIMIDILQHICRTQDIDEESAIAALEDIFETLPRNLSRDARKQIEITINHLVSRLPSIVLPFLVRRLTTIAGRLDRFRSTVSVSFDCLNWVNSMIPNLPEKELQYWILELLPLQSSFLSYALRDGKPSVADSAIKSTRRCYRSLFCKKMDSLKKLVSFLLTETENAILPPKSLPLYGVIISTCYYFHQSPNPRNEISQQAELFSKIMAQNVLMAKPALEKYLYHEFCYSLGLLLSVDQLKLYLLPSIEKALLRSPEIIFSGILSSLAHGFADSKVDASSLILSSVLTSFVNGLKSSNAEVRRNCFQTFKDLSANASDNESLSRVASELITSLRTGKVTASDQRVLFVDALSSLSLKHIDASMLLNELLPLFTKAKESDFNSLASLIVKTLKFLLMNGRNPGDKIYDFLSKSLQRPVAHESMFWLTSLATMAWDLPASDDVQIEFINFFLNNLSILTEKALMSVSGATQNGTYLAPIIYLSFGVNKLSVWNSERISHTLELQDILVKLSTPKNNDVFIFSSKITNKLNDDQSKLWYFQGLCDFAKVSDNLLFSNFVERWFQSVIGVFSFASRENSNRALKILKSAILYRPHLRMSICSQLWNYHADFEKSKSVGKFDSAKYDEISSLFQSLILSSMSADTSNFSNQELVDFDKYLVELLFLSFAFKDKFDWIRFCQVSKRDPATLVSERIHSIIEEIELLLSSAIKDSKETAAIASISMIVFVAPEESIPLFVNVFRNQLLHLNISSVSSTDLEIWKTPEGVLWDNVLEKKSSKKLDKNTKDYETKRWEAEVRAKQSAKKPAKLSKDQQALVDAQLDAEAKIRSRVNLIALSLERGLGIIRSLGEAVQLAPALWVEDAIDVLLFHNVLKYSEPFLKNLAYDTFLLTLKASGFSERLGDRSYSSSLASILAHTFSVNSSENIKELTKSILYKLRFAIEQNYFEPQMFACIFPLLYDLTFNITNSDEEDEAELQLLVTEILEFQALYSASLRRMRSKLIKSLLHLLEIAPTQYQENKNSLLSLCEGLHSTYTDEELNLLLSNLFHPESSIRSAVLQALQAFDLSRFEFIKEIFLELYDDNETNASIAHQISTQNGLDATETSFFELQIFFTQDSDYLQQIIGKSLIDLLDEFEELGQFIPKELMRTYRENALPSAPEYDEYGIIKKETIGRDLGRIARESVAVSFFHISKYLSSNLLLPFLEFLLTASEAEAQIPVTDASQKVSSKMLEAGKLAIFQSGAHQVEALMELFEQKLNVDSLPTDANDRLREATVVLFGTVAQHLPSNDPRLAVVMDSLLSVLSTPSESVQLAVAVCLPPLVKKSLGKSKEYYELLSNKLMNSTSLADQKGAAYGLAGLVKGYGIKAFQDFNILDSLSELISNRQNATHRQVALFAVEAFSRILGIYFEPYLPDLLPLLLTSFGDNANEVREATMDAVKQIMSQLSAFGVKLLLPTLLDGLNEYNWRSKKASVEILGLMSYMAPKQLSVFLPTIIPKLSEVLTDSHSQVRNTANKSLLRFGDVISNPEIQTLVPTLLKALSDCTRYTDDALEALLKTSFVHYLDPPSLALVIPILKYGLRERNAGTKRQSAKIFGLMASLTEPENLAVYLESLMPRLREVLIDPVPDTRATAAKALGSLIEKLGEKKFPTLIPELFNVLRSECSEVDRQGAAQGLSEILAGLGLARLEDVLPEILKNTSSPVPHIRESFISLLIYLPATFGSRFQPYLARAIPPILSGLADDSELVQTASLRAAKMIVNNYATKSVDLLLPELEKGLFDNAWRIRLSSVQLVGDLVFKLAGINRKALQEDEEEEGTHSDVSRKALLDIIGQERHDRILSTLYIVRQDIAAVVRTPAIQIWKAIVVNTPRTVREILPTLTSIIVSNLNSSSNDRRTMCVKSLGDLLKKAGFDVLPQLLPVLKQGLESANSGDRIGVCIALEELINSATPEQLEIYSDDFVYAVRRALMDGDLEVRETAAEAFDSLQSILGDRAVDDVLPQLLKLLESENQSEQALSALREIISRRSSTIFPVLIPTLIKKPVSAFNARALSSLAQVAGVTLNKRLPSILNALMESSLASTGDDLVALNGAIDKVNLSVKDQEGLQILMAHFYSFSESEDFRKRLFAAEHMLVFFQNCKLDYYRYVGDWVRHFITLFEDKSQDVVVAAVAAQNTLVSALRKDQLDSLVSIAYHSLRDVGSQGVNLPAFEVAQGVNSILPIFLYGLMHGTMDQREQSALGIADIVLKTEPSKLRPFVTQITGPLIRIIGERFPVEVKCAILYTLNIILSKISTFLRPFLPQLQRTFAKCLGDPSSEVIRSRAATALGTLITLQTRLAPIITELVSGARTPDAGVRKAMLNALFAVVSKSGQNMNEASAEAIEQLLDEISAESSEHMVICAKLYGALFSHLPDAQAKQLLESKVLSLEIQSEFSVLILNAAVKFGSQKIIELKLSDIVCSIISTASLQKEVTIAENGILALGKALLADIPQSFGNAKNLVEALKVNIEAPPSTSQDSRRLALLIIRVVSKENYSLIKPHISILAPAIFGCVRAIVIPVKLAAEAAFLALFQLVEDDSVLNKYIETLEGPRARSFVDYSRRVAVKLAAAERDRINSGSERVKLEEVEDLAEINAVGRDNEVSTNDP |
| 4573 | sp|A4YJR1|GRPE\_BRASO | MTDPDLHQNDPENPAQASEPVVSKPYIMPDDPETGSAEAYAKEAAEARDKMLRTLAEMENLRKRTAREVADARMYGITGFARDVLDIADNLQRALDAVPAETRANADAGLKSLIEGVELTERSLLNTLEKNGVKKFDPTGQKFDPNFQQAMYEVPDPSVPSGTVVQVVQAGFMIGERVLRPALVGVSKGGAKAAPAASNDQSNSAA |
| 4574 | sp|Q5HV34|GRPE\_CAMJR | MSEQKQEIENENAQNSENLQDDLQDNEKNETNELQKELEELKDKYMRANAEFENIKKRMEKEKLSAMAYANESFAKDLLDVLDALEAAVNVECQDEISLKIKEGVQNTLDLFLKKLEKHGVALIKDEKEFDPNLHEAMFHVDSENHQSGEVVQVLQKGYKIADRVIRPTKVSVAK |
| 4575 | sp|P68066|GRCA\_ECOLI | MITGIQITKAANDDLLNSFWLLDSEKGEARCIVAKAGYAEDEVVAVSKLGDIEYREVPVEVKPEVRVEGGQHLNVNVLRRETLEDAVKHPEKYPQLTIRVSGYAVRFNSLTPEQQRDVIARTFTESL |
| 4576 | sp|Q5E3A5|GRPE\_ALIF1 | MSNEENKVNEEAVVEEQVEAVGTEADVEWNESAEDSQEAKIAELEAALLASQAQVKEQQDTVLRAKAEEQNVRRRAEEDVDKARKYALKKFAGELLPVLDNLERALESGDKENEAAKALLEGVELTLQTFVSTVEKFGLTVINPMGEAFNPELHQAIGMQASPDHESNTVMIVMQKGYTLNDQVLRPAMVMVAQ |
| 4577 | sp|Q9ZQ47|GRDP1\_ARATH | MDKEKDHEVEWLEAQKIEISVDLLAAAKQHLLFLETVDRNRWLYDGPALEKAIYRYNACWLPLLVKYSESSSVSEGSLVPPLDCEWIWHCHRLNPVRYNSDCEQFYGRVLDNSGVLSSVDGNCKLKTEDLWKRLYPDEPYELDLDNIDLEDISEKSSALEKCTKYDLVSAVKRQSPFYYQVSRSHVNSDIFLQEAVARYKGFLYLIKMNRERSLKRFCVPTYDVDLIWHTHQLHPVSYCDDMVKLIGKVLEHDDTDSDRGKGKKLDTGFSKTTAQWEETFGTRYWKAGAMHRGKTPVPVTNSPYASDVLVKDPTAKDDFQNLIQFPEVEVVEVLLEIIGVRNLPDGHKGKVSVMFSKTQPDSLFNAERRLTILSEVGEKQVATFQCEPTGELVFKLISCSPSKIPVSREPKNLGFASLSLKEFLFPVITQLSVEKWLELTPSKGSQTDTKPISLRVAVSFTPPVRSPSVLHMVQSRPSCKGSCFFPIIGKSRLAKSSTHIVDETQTEVITLQIRNSADGGILKDDQRQVMGVTDSGETRVLAVYTGSFWSLLDSKWSLKQINASTADNPLFEILGPRVVKIFSGRKLDYEPKHCANLRSDLDFMTLVEFSKQHPYGKTVGLVDMRFGSIEAKENWLLLPGIVSAFILHTVLKKGGSEGFNVTTKDIKEESKQTKLVAATENNVNANSTNVETQTAITAPKKGSGCGGGCSGECGNMVKAANASGCGSSCSGECGDMVKSAANASGCGSGCSGECGNMVKAANASGGGYGARCKAAKASGCGGGCGGGCGGGCGDMVKSVNASGCGGGCNGECGNMVKAA |
| 4578 | sp|A1UUC9|GRPE\_BARBK | MFDEKNKFTDASFENCDLKNPADRDTLKQAADELLKMHRGKEEVCADVEEEKNESTDLLATLQDENKELKDQFLRLAADMENLRRRTIRDVADAKIYSIANFARDMLSVSDNLNRALEAIPADARESDTNLKMLAEGVEMTERAMMAALEHHGVKKICPEGQKFDPNFHQAMFEISNSDVPDNTVQQVVQAGYIIGERVLRPAMVGVAKGGPKENSTEADSA |
| 4579 | sp|Q69K55|HAL3\_ORYSJ | MTTSESVQETLGLDFPHPSKPRVLLAASGSVAAIKFESLCRSFSEWAEVRAVATKASLHFIDRTSLPSNIILYTDDDEWSTWKKIGDEVLHIELRKWADIMVIAPLSANTLAKIAGGLCDNLLTCIVRAWDYSKPLFVAPAMNTFMWNNPFTSRHLETINLLGISLVPPITKRLACGDYGNGAMAEPSVIDSTVRLACKRQPLNTNSSPVVPAGRNLPSS |
| 4580 | sp|Q59984|GRPE\_SYNE7 | MSEHQTPPEEDLTVANGDSAEAVSEPDVTVASGQEAAELAAQLALVAADRDRLKTELDEQNSAYLRLAADFENFRRRTLKEREELELQSKRTTITELLPVIDNFDRARAQIKPQGEEAEAIHKSYQGLYKQLVDCLKRIGVSPMRAEGQPFDPSLHDAVLREETTEHPDGIVLEELQRGYLLGDLVLRHALVKVSIAAEENSAAVTE |
| 4581 | sp|O80852|GSTF9\_ARATH | MVLKVYGPHFASPKRALVTLIEKGVAFETIPVDLMKGEHKQPAYLALQPFGTVPAVVDGDYKIFESRAVMRYVAEKYRSQGPDLLGKTVEDRGQVEQWLDVEATTYHPPLLNLTLHIMFASVMGFPSDEKLIKESEEKLAGVLDVYEAHLSKSKYLAGDFVSLADLAHLPFTDYLVGPIGKAYMIKDRKHVSAWWDDISSRPAWKETVAKYSFPA |
| 4582 | sp|Q05852|GTAB\_BACSU | MKKVRKAIIPAAGLGTRFLPATKAMPKEMLPIVDKPTIQYIIEEAVEAGIEDIIIVTGKSKRAIEDHFDYSPELERNLEEKGKTELLEKVKKASNLADIHYIRQKEPKGLGHAVWCARNFIGDEPFAVLLGDDIVQAETPGLRQLMDEYEKTLSSIIGVQQVPEEETHRYGIIDPLTSEGRRYQVKNFVEKPPKGTAPSNLAILGRYVFTPEIFMYLEEQQVGAGGEIQLTDAIQKLNEIQRVFAYDFEGKRYDVGEKLGFITTTLEFAMQDKELRDQLVPFMEGLLNKEEI |
| 4583 | sp|A6LWI9|HFQ\_CLOB8 | MVNKQQNNLQDIFLNNARKNKIQIIIHLVNGFQLKGTVKGFDNFTVILDCDNKQMLIYKHAISTITPTKPILFADNEYETT |
| 4584 | sp|Q7XHZ0|HFB4B\_ORYSJ | MAFLVERCGEMVVSMEMGPHGGGGAAAGKPVPAPFLTKTYQLVDDPCTDHIVSWGEDDTTFVVWRPPEFARDLLPNYFKHNNFSSFVRQLNTYGFRKIVADRWEFANEFFRKGAKHLLAEIHRRKSSQPPPPPMPHQPYHHHHHLNPFSLPPPPPAYHHHHLIQEEPATTAHCTVAGDGGEGGDFLAALSEDNRQLRRRNSLLLSELAHMKKLYNDIIYFLQNHVAPVTTTTTTPSSTAMAAAQHHLPAAASCRLMELDSPDHSPPPPPPKTPATDGGDTVKLFGVSLHGRKKRAHRDDDDGVHDQGSEV |
| 4585 | sp|Q24X67|HFQ\_DESHY | MNKAPINLQDTFLNQVRKENMPVTIYLVNGFQLKGLVRGFDNFTVVIEFEGKQQMVYKHAISTVMPLRPINLVAASQASAEER |
| 4586 | sp|C4K3V5|HFQ\_HAMD5 | MAKGQSLQDPFLNALRKERIPVSIYLINGIKLQGQIESFDQFVILLKSTSPSLKNTICQVIYKHAVSTVVPSRAVSSSPHHAPPLQKPEDDGS |
| 4587 | sp|B1M597|HFQ\_METRJ | MAGERAQNLQDTFLNHVRKNKIPLTIFLVNGVKLQGVVTWFDNFCVLLRRDGHSQLVYKHAISTIMPGHPVQLFEPDETAEKA |
| 4588 | sp|O82012|HSP12\_SOLPE | MSLIPRIFGDRRSTSVFDPFSIDVFDPFKELGFTVSNSGETSAFANTRIDWKETPEAHVFKADLPGLKKEEVKVEVEEDRVLQISGERNVEKEDKNDTWHRVERSSGKFMRRFRLPENAKMDQVKASMENGVLTVTVPKEEVNNPDVKSIEISG |
| 4589 | sp|Q9FK72|HFA4C\_ARATH | MDENNGGSSSLPPFLTKTYEMVDDSSSDSVVAWSENNKSFIVKNPAEFSRDLLPRFFKHKNFSSFIRQLNTYGFRKVDPEKWEFLNDDFVRGRPYLMKNIHRRKPVHSHSLVNLQAQNPLTESERRSMEDQIERLKNEKEGLLAELQNQEQERKEFELQVTTLKDRLQHMEQHQKSIVAYVSQVLGKPGLSLNLENHERRKRRFQENSLPPSSSHIEQVEKLESSLTFWENLVSESCEKSGLQSSSMDHDAAESSLSIGDTRPKSSKIDMNSEPPVTVTAPAPKTGVNDDFWEQCLTENPGSTEQQEVQSERRDVGNDNNGNKIGNQRTYWWNSGNVNNITEKAS |
| 4590 | sp|Q652B0|HFB2C\_ORYSJ | MAEQGAGEADAGGGEPPPAAVMTAAAEALAGQRSLPTPFLTKTYQLVEDPAVDDVISWNEDGSTFVVWRPAEFARDLLPKYFKHNNFSSFVRQLNTYGFRKIVPDRWEFANDCFRRGEKRLLCDIHRRKVVAAAAAAPPPPSPGMATAAAAVASGAVTVAAAPIPMALPVTRAGSPAHSSEEQVLSSNSGSGEEHRQASGSGSAPGGGGGGSASGGDMGEENERLRRENARLTRELGHMKKLCNNILLLMSKYAATQHVEGSAGISSIANCSGESSEAVPPPPPLPPAILDLMPSCPALATAAAAAGLAIDGEPDPSARLFGVSIGLKRTRDDAAAAADEDGGGEDQAEHGGADVKPEAADPHPAGGGGGSSTEASPESHPWPIYRPTPMYHAVRPTCNGPDRAGSDQDGSSSSQTMGPGEFDDLQKMMVVQQSNFVMHWGRSECGSGVRGFGW |
| 4591 | sp|O14368|HSP16\_SCHPO | MSLQPFFGFPPTVNDLFSDFVSYSPRLNNQIPGELSPSIDVHEGKDTVSVDVELPGVKKEDVQVHYDSGKLTISGEVVNERKNESTEGNQRWSERRFGSFSRTITIPAKIDADRIEANFSNGLLTVTLPKVEKSQTKKQIAIK |
| 4592 | sp|Q4KJK3|HSLU\_PSEF5 | MSMTPREIVHELNRHIIGQDDAKRAVAIALRNRWRRMQLPAELRVEVTPKNILMIGPTGVGKTEIARRLAKLANAPFIKVEATKFTEVGYVGRDVESIIRDLADAAIKMFREQEMIRVRHRAEDAAEERILDALLPQARTGFNSDDAAPAQDSNTRQLFRKRLREGQLDDKEIEIEVAEAAGVDISAPPGMEEMTNQLQSLFANMGKGKRKNRKLKVKEALKLVRDEEASRLVNDEELKAKALEAVEQHGIVFIDEIDKVAKRGNAGGVDVSREGVQRDLLPLIEGCTVNTKLGMVKTDHILFIASGAFHLSKPSDLVPELQGRLPIRVELKALSPQDFERILSEPHASLTEQYRELLKTEGLNIEFLPEGIKRLAEIAWQVNEKTENIGARRLHTLLERLLEEVSFSAGDLASAHSEEPIRIDAAYVNSHLGELAQNEDLSRYIL |
| 4593 | sp|Q96VB9|HSP7F\_CANAL | MSIPFGVDLGNNNTVIACAKNRGIDIVVNEVSNRSTPSLVGFGHKSRYLGESAKNQQTSNIKNTVDNLKRIVGLPHDHPDFEIEKKFFTIPLIKNEVDGGVSGKVKYLTKNHEFTATQLLAMYLDKIKDTALKETKGNISDICLSVPGWYTEKQRRAAADACKIAGLNPVRIVNEVTAAAVGYGVFKAGELPEDEYKKVAFVDVGHSSYQVSIAAVKKGELKILGSAYDKHFGGRNFDFAIAEHFAKEFKSKYKIDVHENPKAFYRVLVAAEKLKKVLSANTQAPFNIESVMNDVDVSSSLTREELEELVQPLLDRINVPIETALKDAGITVDELDSIEVIGGSSRIPAVKTRISEIFGKPLSFTLNQDEAIAKGNAYICACHSPTVRVRPFKFEDYNQYTVSYFWDKEDEEDDHLEVFPKGGLFPSTKIITLFRKGPSFEIEAKYTKPEELPKGTELHIAKWKISGVVPNEGESSIATKIKLRNDPSGFYTIESAHTVEEQIVKELIEPAEGEEVDEDAEPQYREVKKLVKKNDLTIECESAALPDAELQAFIEKEASMVMEDKLVFDTEERKNQLEEYIYELRGKLDEEYKDFASDQEKEKLSGLLMKAEDWLYEDGEDSTKAKYIAKYEELASIGNVIKGRYLAKEQEKKEQYRQKQEAAQAAAMAEKMAAQREASKKQESSSSGKNNKDTEGDVDMD |
| 4594 | sp|Q8KML8|HRCA\_LACSN | MLTERQSMILKYIIDDYSKTGVPIGSKALAEQLPIHVSSATIRNEMAVLSHQNFIEKLHTSSGRVPSNQGYRYYIDNLAKPAKLDTKRLEYISEMLDGSFQQIDEIVRQSADILSHLTDYTALTFSPELTTENTIKHLQLVNLGLNRMMVVIVMGNEQVESQSFLVTNQYIDSQLSLATNLLNQQLVGKTAREVKQVFQSKILTELHTYLPDTKQFVRAIQAILSKIDDDHYFISGQMNMFEQNGKQDFSKIKSLYSMFNNDNGIDALLEKSSKPISVKIGAEFDNDWLKDYSIITGSYDLGNHGIGRIALIGPMRMSYPNMLGVVDAFRHELKNRISGYYRSYDQ |
| 4595 | sp|B3GY94|HSLO\_ACTP7 | MSYTKDNDKLYRYLFQNRAVRGEWVRLNDTFTETLNTHQYPKAVQNLLGEMLVATSLLTAIMKFEGTITVQIQGDGPLKLAVVNGNEKQQLRALARTQAEIADNASLSEMIGNGVLVISIMPNDGERYQGVIALDKPTIRECLEDYFIRSEQLQTHLVIRTGEYEGKAVAGGLLLQIMPDGTGMPEDFEHLMTLAETVKDEELFGLEAEELLFRLYHEEQVEVYPPQETEFYCGCSRERSGNAILLLPMEEIDEMLAEKNGVIDMQCECCGTQYFFDKNAIMEFKQEADKLNQLGL |
| 4596 | sp|A0L1J9|HSLU\_SHESA | MSEMTPREIVHELDAHIIGQKKAKRSVAVALRNRWRRMQLDADFRQEVTPKNILMIGPTGVGKTEIARRLAKLANAPFIKVEATKFTEVGYVGKEVEQIIRDLTDIAIKLTREQQMGKCRQRAEEHAEERILDALLPKPKNDWDNTDSDTSSNTRQIFRKKLREGQLDDKEIDIDVAQPQVGIEIMSPPGMEEMTNQLQSLFKNMGQAPAKRRKMKIKEAFKLLIEEEAAKLVNQEDLKEQAIELVEQHGIVFLDEIDKICKRGETSGPDVSREGVQRDLLPLVEGCTVTTKHGMVKTDHILFIASGAFQMAKPSDLIPELQGRLPIRVELDALSADDFKRILTEPHASLTEQYIALMATEGVTIEFAESGIESIAKAAWQVNERTENIGARRLHTVMEKLMEDISYEASDKSGSSFVIDADYVSAHLDNLVQDEDLSRFIL |
| 4597 | sp|B0U6U9|HSLU\_XYLFM | MPSKTDFTSSTMTPREIVQELDRHIVGQQVAKRSVAIALRNRWRRMQLPEELRNEVMPKNILMIGPTGVGKTEIARRLATLANAPFVKVEATRFTEVGYVGKDVEQIGRDLVDTAVKMYREQAKVRVRTQVEEYAEERILDALLPRRSVGIGFDVDADVIRQEPSAHDSETRAKFRRMLRSGELEDREIELDVAVNVSMDIMTPPGMEEMGQQLRQMFSNIGGGKSQKRKLTIKAARPLLIEEEAAKLVNEDEIRAAAIEACEQNGIVFIDEIDKVVKRGDTVGGGDVSREGVQRDLLPLVEGSNVSTKYGTIRTNHILFIASGAFHLTKPSDLIPELQGRFPIRVELDALSKADFIRILTEPKAALTKQYQELLKTEGVSLDFTEDAIDRIAEIAYLVNERQENIGARRLHTVLERLLETLSYESPDRDGESVTVDADYVNAHLGELVKDPDLSRYIL |
| 4598 | sp|A7FCY4|HSLU\_YERP3 | MSEMTPREIVSELDSHIIGQDKAKRAVAIALRNRWRRMQLNEELRHEVTPKNILMIGPTGVGKTEIARRLAKLANAPFIKVEATKFTEVGYVGKEVDSIIRDLTDAAVKMVRHQSIEKMRYRAEELAEERILDVLIPPAKNNWGVPDESQEPSATRQTFRKKLREGQLDDKEIEIDLAAAPMGVEIMAPPGMEEMTNQLQSMFQNIAGQKQKPRKIKIKEALKLLIEEEAAKLVNPEELKQQAIDAVEQHGIVFIDEIDKICKRGQTSGPDVSREGVQRDLLPLVEGCTVSTKHGMVKTDHILFIASGAFQVSSPSDLIPELQGRLPIRVELQALTTDDFERILTEPSASLTEQYKALMATEGVTIEFTREGIRKIAEAAWQVNERTENIGARRLHTVLERLMEDISYDASESSGQSITIDAEYVGKHLDELVADEDLSRFIL |
| 4599 | sp|A4TLG5|HTPX\_YERPP | MMRIALFLLTNLAVMLVFGLVLSLTGIQSSSVQGLMIMAGLFGFGGAFVSLLMSKWMALRSVGGEVIERPRNETEYWLLETVRRQSQQVGIAMPQVAIYQAPDINAFATGARRDASLVAVSTGLLQNMSRDEAEAVIAHEISHVANGDMVTMTLIQGVVNTFVIFISRLIAQIAAGFLSGDRDGESNSPGNPMVYFAVSMVLELVFGILASIITMWFSRHREFHADAGSAKLVGREKMIAALQRLKTSYEPQEAGSMMAFCINGKSKTFSELFMSHPPLDKRIEALRSGQYLK |
| 4600 | sp|B2J938|HRCA\_NOSP7 | MEVQLTNRQQHILWATVRHYIATAEPVGSKALVEEYDLGVSSATIRNVMGVLEKSGLLYQPHASAGRVPSDSGYRIYVDQLITPSLRSRSVSQTDATRTETLGREIEVALQKHLQWEDRSLETLLQGAAQILATLSGCISLITMPQTTTALLRHLQLVQIEAGRIMLIVVTDGYETHSKLMDLSPIPEETQRDSEVIDRELQIVSNFLNTHLRGRSLLELANLNWSELDQEFQRYGEFLKNSVAELTRRTLAPTATQIMVRGVSEVLRQPEFSQLQQVQTIIHLLEEEQDQLWRLIFEEPEPEDIGKSRVTVRIGAENPLEPIRTCTLISSNYRRGSIPVGSVGVLGPTRLDYESAIAVVASAADYLSEAFSYFNP |
| 4601 | sp|Q84BU6|HRCA\_LACAC | MLTERQELILKTIIMDFTQTHEPVGSKTVMNQLPIKVSSATIRNEMAVLEDQGLIEKTHSSSGRIPSSEGYRYYLDNLVEPLKLPESVYNTIGSQLDRPFHQVNEIVQEAARILSDLTNYTAFAEGPEKRDVKVTGFRIVPLSSRQVMAILVTSDGNVQNQVYALPHNIYGEEIEKAVHMINDQLVGKSLNEINVSLLSELAKSELGGEHVTELLSLVEDVLKDAASEQMYVDGQINLLNNTSEHNVKDIRSLYELIDHDNLFSNLMDSKADSKDKNYPIKVKLGSELPNDLLKNYSLLTAEYNVGSHGKGTIALLGPTNMPYSQMIGLLEYFRNELAKKLLDYYGKFQ |
| 4602 | sp|A5ITB0|HRCA\_STAA9 | MITDRQLSILNAIVEDYVDFGQPVGSKTLIERHNLNVSPATIRNEMKQLEDLNYIEKTHSSSGRSPSQLGFRYYVNRLLEQTSHQKTNKLRRLNQLLVENQYDVSSALTYFADELSNISQYTTLVVHPNHKQDIINNVHLIRANPNLVIMVIVFSSGHVEHVHLASDIPFSNDKLNTISNFVTNKLTEFNQNLQDDIVSFVQSEQEEIFINKLINTMNNHISNQSNSIYMGGKVKLIDALNESNVSSIQPILQYIESNRIAELLQDISSPNINVKIGNEIDDSLSDISIVTSQYHFDETLKGQIAVIGPTAMHYQNVIQLLNRIW |
| 4603 | sp|Q1MMD0|HRCA\_RHIL3 | MGIRSTSVSDAVAALDERSREIFRRIVEGYLESGEPLGSRNLSRILPMSLSPASVRNVMSDLEELGLIYSPHVSAGRLPTQIGLRFFVDAFMQVGDLSAEERASIDRQVRVESGGNPVESMMNEASRMLSGISRGAGLVITSKSDPVLKHVEFIRLEPTKALAVLVGDHDQVENRIIELPAGVTSSQLTEAANFLNAHMSGQTLPELRKQLSRLKDDVRHELDALSRDLVERGIAVWAGSPDEGKPTQLIIRGRANLLEGLAGAEDLDRLRLLFDDLEKKDSLIEILNLAESGSGVRIFIGSENKLFSLSGSSLIVAPYRDDDDRIVGAVGVIGPTRLNYSRIVPMVDYTAQLVSRLSRSQL |
| 4604 | sp|Q96320|HSFB1\_ARATH | MTAVTAAQRSVPAPFLSKTYQLVDDHSTDDVVSWNEEGTAFVVWKTAEFAKDLLPQYFKHNNFSSFIRQLNTYGFRKTVPDKWEFANDYFRRGGEDLLTDIRRRKSVIASTAGKCVVVGSPSESNSGGGDDHGSSSTSSPGSSKNPGSVENMVADLSGENEKLKRENNNLSSELAAAKKQRDELVTFLTGHLKVRPEQIDKMIKGGKFKPVESDEESECEGCDGGGGAEEGVGEGLKLFGVWLKGERKKRDRDEKNYVVSGSRMTEIKNVDFHAPLWKSSKVCN |
| 4605 | sp|P54651|HSC90\_DICDI | MAESQVERFTFQAEINQLMSLIINTFYSNKEVFLRELISNASDALDKIRYQSLTDASVLESKTELEIKIIPDKTAKTLTLIDSGIGMTKTDMVKNLGTIARSGTKNFMEQLQSGAADISMIGQFGVGFYSAYLVADTVIVHSKNNDDEQYVWESSAGGEFTIALDHTEPLGRGTKIVLHMKEDQLDYLDETKIKNLVKKHSEFIQYPISLLTIKEKEVDEETTAKEGEEESTDAKIEEIEEEKEKKKVKVQEKEWDVLNKTKPLWTRNPSDVTKEEYNSFYKSISNDWEEPLAVKHFSVEGQLEFKAILFVPKKAPFDLFESKKKANNIKLYVKRVFIMDNCADIIPEYLNFVRGIVDSEDLPLNISRETLQQNKILTVIRKNLVKKCIELFNEIAENSEDYKKFYEAFSKNLKLGVHEDSQNREKFADLLRYQTSKSGDELVTLKEYVGRMKEGQNEIYYITGESKKAVENSPFIEGLKKKNLEVIYMCDPIDEYAVQQLKEYDGKKLVSITKEGLKLDETEDEKKKAEQDKAANEELLKQVKDVLGDKVEKVVLSTRLANSPCVLVTSEYGWSANMERIMKAQALRDSSMSSYMSSKKTLELNPDHPIVRDLAKKAAEKSKTFKDFVYLLYETALLTSGFSLDEPSSFASRIHRMIKLGLSIQDDSSATTEESTNTTTSDDIPPLEENDEPSEMEKVD |
| 4606 | sp|Q2NQY1|HSLU\_SODGM | MSEMTPREIVSELDGYIVGQHNAKRAVAIALRNRWRRMQLDEALRHEVTPKNILMIGPTGVGKTEIARRLAKLANAPFIKVEATKFTEVGYVGKEVDSIIRDLTDAAVKMVRLQSIEQNRFRAEELAEERVLDVLIPPAKNNWGQPEESGEPSSARQNFRKKLREGQLDEKEIEINLAAAPMGVEIMAPPGMEEMTNQLQSMFKNLAGQKQKPRKIKIKEAMKLLVEEEAAKLVNPEELKEKAIEAVEQHGIVFIDEIDKICKRDEVSGLDVSREGVQRDLLPLVEGCTVSTKHGMVKTDHILFIASGAFQVSSPSDLIPELQGRLPIRVELEALTTEDFERILTEPSASLTTQYIALMATEGVSITFTEDGIKRIAEAAWQVNECTENIGARRLHTVLERLMEDISYDASEWNGKTISIDADYVHGHLDELVSDEDLSRFIL |
| 4607 | sp|Q9R9I1|HTRB\_BACSU | MDYRRDGQNDQHQTEPSHTEQQNTENQKLIGHSEQELLDAPVSYEAGRQETASALEMEKQETAVKKEKKRRAAWLSPILGGIIGGGLMLGIAPYLPSDQNQATETASANKQVQSDNFTTAPITNASNIADMVEDLEPTIVGISNIQTSQNNTFGTGGGSSSESESGTGSGVIFKKDSDKAYIITNNHVVEGANKLTVTLYNGETETAKLVGSDTITDLAVLEISGKNVKKVASFGDSSQLRTGEKVIAIGNPLGQQFSGTVTQGIISGLNRTIDVDTTQGTVEMNVLQTDAAINPGNSGGPLINASGQVIGINSLKVSESGVESLGFAIPSNDVEPIVDQLLQNGKVDRPFLGVQMIDMSQVPETYQENTLGLFGDQLGKGVYVKEVQANSPAEKAGIKSEDVIVKLNGKDVESSADIRQILYKDLKVGDKTTIQVLRKGKTKTLNATLTKQTESSSS |
| 4608 | sp|Q72DW6|HRCA\_DESVH | MSALGSRETHVLTTIIESYITSAAPVGSRTVSRRSGLALSPASMRNTMSDLTDMGFLEQPHTSAGRIPTPKAFRLYVDALLRQSARRDEAPLHMVEALHGHEPEVGALLRRASNLVSEHARQVSMVLAPGPAEARLRSLDFVPAGEGLVLAVLVLEGGMVRTRLVRDDTHFGSDELVRFGNYINAHYRGHTLSGIRNSIHHELSGGGAQLEAMCAQALALGSLALDSIDDDRELYVNGTRNILDQAEFAELGRMRELMDALEERSRLLELLDRTILEDDVHVTFYPDDVSGGAQRRAPDGLRGCSMVSAPYGGASPLGVIGVIGPVRMDYRKVLPLVGAVSRVLTQLLRERFATG |
| 4609 | sp|Q824B0|HRCA\_CHLCV | MSRSWISKRESKILYILLTTTELYLKTGHPVGSKTLKEYEGSNLSTATIRNYFSELEAEGFLKKNHISGGRIPTDLAFRYYVDHCADCSQDELPESTINLLNQLPEESQNIVKDLQKASELLGEALQLPTCFSSPRFDNDSVTNIQLSLVDEQRAVVILSTEFGQIFTDTLWLSEASNPASLKRIEIFLQSYVRKQSPMEILSQKEEDIGMTLYNEVVVRYLTRYCNFSEEDLYQTGLSKLLRYESFKDPDMLALGLSFFENRRHMCKLLDIGMHRDRPTAFIGNELSDIFRTPNPQCAVITIPYYMNRTPLGAFGVLGPVNLPYKEIFKTLTIFADKIKASLTQSFYKFKLSFRRPCPSDPTLSKEPTLLARYSSIKLLPPKETS |
| 4610 | sp|Q82UK7|HRCA\_NITEU | MLNEREKILLKTLVERYIHEGQPVGSRSLAKFSGLDLSPATIRNVMTDLEEMGYVSSPHTSAGRMPTTLGYRFFVDTLLVVKSLDNEQITLLENQLHPNNPTHLMNVTSRLLSELTRFVGVVVTPKRMGGAVFRHIEFVALTEKRILLILVTPEGDVQNRIILTETAYSQSDLIEAGNFLNQHYAGCTLEEIRSGLQRELTQLRRDMTGLMNAAIEIGNDALQESSEAVVIAGEHRLFDVRDLSDNLSSLKSLFEMFERKSKLLQLMELSRQAHGVKIFIGGESDETMLEEVSVVTAPYEMEGKIVGTVGVIGPRRMAYERIIPIVDITAKLLSSNLS |
| 4611 | sp|P71498|HRCA\_MYCCT | MLTKRQVKILQTIVEEFIKTNQPVGSKRILELLDIKISSATIRNESAILEHEGYLEKQHTSSGRTPSTKGYRYYVDNIMKLDSADYTRLKIYLNQLLDLRKYDIDKTINYASEIISELTKMTAVVIKKQNIKNIKLKKIELILLSEFLASVLFIFSDGDVQNKMFNLKDISLSDLKIAIKLFSDFLVDVKLDEIDQYLNDLKHQLSLSIKQYDYVLNTFINTILESKNEQKETHGMRYMLENPEFNDTNKLKNAVKLVEQLSPFDWFNIAYESNKNMNKIAIKIGNEIDQINDDISMIATELKIGNSSTVLTLVGPKRVDYNQVNQLMNLIIEIINAKEN |
| 4612 | sp|A8Z4C1|HRCA\_STAAT | MITDRQLSILNAIVEDYVDFGQPVGSKTLIERHNLNVSPATIRNEMKQLEDLNYIEKTHSSSGRSPSQLGFRYYVNRLLEQTSHQKTNKLRRLNQLLVENQYDVSSALTYFADELSNISQYTTLVVHPNHKQDIINNVHLIRANPNLVIMVIVFSSGHVEHVHLASDIPFNNDKLNTISNFVTNKLTEFNQNLQDDIVSFVQSEQEEIFINKLLNTMNNHISNQSNSIYMGGKVKLIDALNESNVSSIQPILQYIESNRIAELLQDISSPNINVKIGNEIDDSLSDISIVTSQYHFDETLKGQIAVIGPTAMHYQNVIQLLNRIW |
| 4613 | sp|A1TT56|HRCA\_ACIAC | MLDDRAKLLLKALIERYIADGQPVGSRTLSRSSGLDLSPATIRNVMADLEDIGLIASPHTSAGRIPTAKGYRLFVDTMLTVQRGELCSPELAPDQPQKVIANAAQLLSSLSQFVGVVMAPRRPSVFRHIEFLRLSERRLLVIIVSPDGDVQNRVIFTEVDHSQSQLAEAANFLNSHYSGLGMEEVRERLKTEVDQLRGEIASLMQAAVNVGSEAMAASQEEVVISGERNLLALSDFSNDMGNLRKAFDLFEQKTQILRLLDVSNRAEGVRIFIGGESQVVPFEELSVVSAPYEVDGQVVGTLGVIGPTRMPYDRMIQIVDITSKLVTNALSHRR |
| 4614 | sp|Q9P2X3|IMPCT\_HUMAN | MAEGDAGSDQRQNEEIEAMAAIYGEEWCVIDDCAKIFCIRISDDIDDPKWTLCLQVMLPNEYPGTAPPIYQLNAPWLKGQERADLSNSLEEIYIQNIGESILYLWVEKIRDVLIQKSQMTEPGPDVKKKTEEEDVECEDDLILACQPESSLKALDFDISETRTEVEVEELPPIDHGIPITDRRSTFQAHLAPVVCPKQVKMVLSKLYENKKIASATHNIYAYRIYCEDKQTFLQDCEDDGETAAGGRLLHLMEILNVKNVMVVVSRWYGGILLGPDRFKHINNCARNILVEKNYTNSPEESSKALGKNKKVRKDKKRNEH |
| 4615 | sp|B7N1Z1|IBPA\_ECO81 | MRNFDLSPLYRSAIGFDRLFNHLENNQSQSNGGYPPYNVELVDENHYRIAIAVAGFAESELEITAQDNLLVVKGAHADEQKERTYLYQGIAERNFERKFQLAENIHVRGANLVNGLLYIDLERVIPEAKKPRRIEIN |
| 4616 | sp|A4W4S4|IBPB\_ENT38 | MRNHDLSPLLRQWIGFDKLANALQSTAEHQAFPPYNIEKSDDNHYRITLALAGFRQDDLDIQLEGTRLTVKGTPEKPETETKWLHQGLVIQPFSLSFTLADHMEVTGATFTNGLLHIDLTRNVPEALAPQRIAISDRPALNS |
| 4617 | sp|C4ZYW4|IBPA\_ECOBW | MRNFDLSPLYRSAIGFDRLFNHLENNQSQSNGGYPPYNVELVDENHYRIAIAVAGFAESELEITAQDNLLVVKGAHADEQKERTYLYQGIAERNFERKFQLAENIHVRGANLVNGLLYIDLERVIPEAKKPRRIEIN |
| 4618 | sp|A8ACJ9|IBPB\_CITK8 | MRNYDLSPLLRQWIGFDKLANALQNTGESQSFPPYNIEKSDDNHYRITLALAGFRQEDLDIQLEGTRLTVKGTPAQPEKEIKWLHQGLVTQPFSLSFTLAENMEVSGATFTNGLLHIDLTRNEPETIAPQRIAISERPALNS |
| 4619 | sp|Q0T7K8|IRAP\_SHIF8 | MKNLIAELLFKLAQKEEESKELCAQVEALEIIVTAMLRNMAQNDQQRLIDQVEGALYEVKPDASIPDDDTELLRDYVKKLLKHPCQ |
| 4620 | sp|Q83MA8|IRAP\_SHIFL | MKNLIAELLFKLAQKEEESKELCAQVEALEIIVTAMLRNMAQNDQQRLIDQVEGALYEVKPDASIPDDDTELLRDYVKKLLKHPCQ |
| 4621 | sp|B5Y119|IRAP\_KLEP3 | MKNLIAELLVKLAQKEEEAKELTVQVEALEIVVTALLRHMEHDAQQALIQDIEQAIDQVTPCPPVNDQDAMLLQQYLKKLLRHPRS |
| 4622 | sp|Q9F0N8|IRAM\_SALTY | MEWKVVDTVISPSTGVSFSCIHSLKNLRLTLWYQADVYMPPGSIIIPFNKGVLINDKLYPVTVYNVTRFNPVLWKSLKENSHCPGNCNPKSEACSYPFECLVSVCPFGLTRNIQIDNKKV |
| 4623 | sp|B4TZF4|IRAP\_SALSV | MKNLIAELLLKLAQKEEESKELVAQVEALEIIVTAMLRNMAQNEQEMLIRQVEGALEGVKPDASVPDHDTELLRQYVKKLLRHPRH |
| 4624 | sp|Q8XG49|IRAP\_SALTI | MKNLIAELLLKLAQKEEESKELVAQVEALEIIVTAMLRNMAQNEQEMLIRQVEGALEGVKPDASVPDHDTELLRQYVKKLLRHPRH |
| 4625 | sp|P55995|LON\_HELPY | MTEDFPKILPLLVEEDTFLYPFMIAPIFLQNNASIKAVAYAKNNKSLVFIACQKDKLNDNEAPYYDVGVIGSVMREANMPNGRVKLLFNGIAKGRILEPAKENEQGFLEAQISPIEYLEYDKENIQAIVEVLKEKVITLANVSSLFPPDLIKALEDNDDPNRIADLIAAALHLKKDQAYSLFANNNTEQRLLDLIDIVIEETKTQKLQKEIKSKVHQKMEQTNKEYFLKEQLKQIQKELGTDKQRDEDLNQYYQKLESIKPFLKEEAFKEIKKQIDRLSRTHADSSDSATLQNYIETMLDVPFGQYGKKALDIKHVREQLDKDHYSLKRPKERIVEYFATMQLLEMRRKKKPEKKDKTKGTILCFYGPPGVGKTSLANSIAKAIERPLVRIALGGLEDVNELRGHRRTYIGSMPGRIVQGLIEAKKMNPVMVLDEIDKVDRSVRGDPASALLEILDPEQNTAFRDHYANFSIDLSQVIFIATANNIDRIPAPLRDRMEFISVSSYTPNEKEEIAKNYLIPQELEKHALKPSEVEISHECLKLIIEKYTREAGVRDLRRQIATIMRKVALKYLEDNPHQKGRTKKGKNEKSEDQKSEDQKSENQKSENKDFCVSITPNNLKEYLERMVFEIDPIDEENKIGIVNGLAWTPVGGDVLKIEVLKIRGKGELKLTGSLGDVMKESAIIAFSVVKVLLDNETLKVPKIPSETDAEGKKKKKVLKVYNAYDLHLHVPEGATPKDGPSAGIAMASVMASILCDRATRSEVAMTGELTLSGEVLPIGGLKEKLIAAFKAGIKTALIPVKNYERDLDEIPAEVRENLNIVAVKNIAEVLEKTLL |
| 4626 | sp|O23208|ATB40\_ARATH | MNYTVDDQNMAFISQLYPDVYTQIVQPGEVKQPKRRRKKTKGSVASADGGNGLFRKRKLTDEQVNMLEMSFGDEHKLESERKDRLAAELGLDPRQVAVWFQNRRARWKNKRLEEEYNKLKNSHDNVVVDKCRLESEVIQLKEQLYDAEREIQRLAERVEGGSSNSPISSSVSVEANETPFFGDYKVGDDGDDYDHLFYPVPENSYIDEAEWMSLYI |
| 4627 | sp|Q9BS26|ERP44\_HUMAN | MHPAVFLSLPDLRCSLLLLVTWVFTPVTTEITSLDTENIDEILNNADVALVNFYADWCRFSQMLHPIFEEASDVIKEEFPNENQVVFARVDCDQHSDIAQRYRISKYPTLKLFRNGMMMKREYRGQRSVKALADYIRQQKSDPIQEIRDLAEITTLDRSKRNIIGYFEQKDSDNYRVFERVANILHDDCAFLSAFGDVSKPERYSGDNIIYKPPGHSAPDMVYLGAMTNFDVTYNWIQDKCVPLVREITFENGEELTEEGLPFLILFHMKEDTESLEIFQNEVARQLISEKGTINFLHADCDKFRHPLLHIQKTPADCPVIAIDSFRHMYVFGDFKDVLIPGKLKQFVFDLHSGKLHREFHHGPDPTDTAPGEQAQDVASSPPESSFQKLAPSEYRYTLLRDRDEL |
| 4628 | sp|Q9LX30|GCN2\_ARATH | MGRSSSKKKKKRGGSGRRGQLKDHGSNADEDNELLSEEITALSAIFQEDCKVVSDSRSPPQIAIKLRPYSKDMGYEDTDISAMLIVRCLPGYPYKCPKLQITPEQGLTTADAEKLLSLLEDQANSNAREGRVMIFNLVEAAQEFLSEIIPESHDEESVPCLTAHRSTQFIEQPMLSNIAKSCSGGPFVYGFIDLFSGLEDARNWSLTPDENRGIVSSVQSHPLDTSRILHQKPDKNLKRFEDHAKEEVALPAPIAKLNTVQEENVDDTSISSFDSSKSTDDVESGLFQNEKKESNLQDDTAEDDSTNSESESLGSWSSDSLAQDQVPQISKKDLLMVHLLRVACTSRGPLADALPQITDELHELGILSEEVLDLASKSSPDFNRTFEHAFNQNMASTSVPQFWEPPSDSCEPNASLPSSRYLNDFEELKPLGQGGFGHVVLCKNKLDGRQYAVKKIRLKDKEIPVNSRIVREVATLSRLQHQHVVRYYQAWFETGVVDPFAGANWGSKTAGSSMFSYSGAVSTEIPEQDNNLESTYLYIQMEYCPRTLRQVFESYNHFDKDFAWHLIRQIVEGLAHIHGQGIIHRDFTPNNIFFDARNDIKIGDFGLAKFLKLEQLDQDGGFSTDVAGSGVDSTGQAGTYFYTAPEIEQDWPKIDEKADMYSLGVVFFELWHPFGTAMERHVILTNLKLKGELPLKWVNEFPEQASLLRRLMSPSPSDRPSATELLKHAFPPRMESELLDNILRIMQTSEDSSVYDRVVSVIFDEEVLEMKSHQSSRSRLCADDSYIQYTEINTELRDYVVEITKEVFRQHCAKHLEVIPMRLLSDCPQFSRKTVKLLTNGGDMLELCYELRLPFVHWISVNQKSSFKRYEISHVYRRAIGHSPPNPCLQADFDIVGGTLSLTEAEVLKVIVDITTHIFHRGSCDIHLNHGDLLDAIWSWAGIKAEHRRKVAELLSMMGSLRPQSSERKLKWVFIRRQLLQELKLPEAVVNRLQTVASRFCGDADQALPRLRGALRADRPTRKALDELSNLLTYLRVWRIEEHVHIDVLMPPTESYHRNLFFQVFLTKENSSGTSNDGVLLAVGGRYDWLVQEVCDREHKMNLPGAVGVSLALETIFQHLPMDLRPIRNEVSTSVLVCSRGGGGLLVQRMELVAELWEKSIKAEFVPTPDPSLTEQYEYANEHEIKCLVIITESGVAQNQIEFVKVRHLELKKEKVVGREELVKFLLDAMAVQFRNPSVWS |
| 4629 | sp|Q8GXJ4|GLR34\_ARATH | MGFLVMIREVSMAKAIRVVLLCVSVLWVVPKECACRSNFSRNSSSSSSSSLRPLRQRPSSVNVGALFTYDSFIGRAAKPAVKAAMDDVNADQSVLKGIKLNIIFQDSNCSGFIGTMGALQLMENKVVAAIGPQSSGIAHMISYVANELHVPLLSFGATDPTLSSLQFPYFLRTTQNDYFQMHAIADFLSYSGWRQVIAIFVDDECGRNGISVLGDVLAKKRSRISYKAAITPGADSSSIRDLLVSVNLMESRVFVVHVNPDSGLNVFSVAKSLGMMASGYVWIATDWLPTAMDSMEHVDSDTMDLLQGVVAFRHYTIESSVKRQFMARWKNLRPNDGFNSYAMYAYDSVWLVARALDVFFRENNNITFSNDPNLHKTNGSTIQLSALSVFNEGEKFMKIILGMNHTGVTGPIQFDSDRNRVNPAYEVLNLEGTAPRTVGYWSNHSGLSVVHPETLYSRPPNTSTANQRLKGIIYPGEVTKPPRGWVFPNNGKPLRIGVPNRVSYTDYVSKDKNPPGVRGYCIDVFEAAIELLPYPVPRTYILYGDGKRNPSYDNLVNEVVADNFDVAVGDITIVTNRTRYVDFTQPFIESGLVVVAPVKEAKSSPWSFLKPFTIEMWAVTGGFFLFVGAMVWILEHRFNQEFRGPPRRQLITIFWFSFSTMFFSHRENTVSSLGRFVLIIWLFVVLIINSSYTASLTSILTIRQLTSRIEGIDSLVTSNEPIGVQDGTFARNYLINELNILPSRIVPLKDEEQYLSALQRGPNAGGVAAIVDELPYIEVLLTNSNCKFRTVGQEFTRTGWGFAFQRDSPLAVDMSTAILQLSEEGELEKIHRKWLNYKHECSMQISNSEDSQLSLKSFWGLFLICGITCFMALTVFFWRVFWQYQRLLPESADEERAGEVSEPSRSGRGSRAPSFKELIKVVDKREAEIKEILKQKSSKKLKSTQSAAGTSQSQHGEIT |
| 4630 | sp|B5ENA4|GRPE\_ACIF5 | MNEEKEESPSTEAEGAGAEVVNWEERAETYRNDYLRALADIENLRKRHEKQVEDARNYAVDRFARELLPVVDSLELALASPVEGAESIALLRQGLENTLTLFAKALGKAGIAPIEMGEGRFDPHLHQAIAMVETEGEANRVLAVHQKGYVMHDRLLRPSMVSVSKAPKAAQ |
| 4631 | sp|Q7W517|GRPE\_BORPA | MTAPQEPVDSTPESGENAATPGLEDDLSAELAALRAELEAAQATVKAQQEQVLRAAAEAENVRRRAQEDVAKARKFGIESFAESLVPVKDSLEAALAQPDQAAQAWREGVEVTLKQLTAAFERNLLKEIAPAQGDKFDPHLHQAISSVPADQPANTVLQLLQKGYVIADRTLRPALVVVSAGQG |
| 4632 | sp|Q2JVR0|GRPE\_SYNJA | MPTEDAYPELQEEEIDVEAELEKLILEDREAEASTSSGEASAEASQDLSETLKQLQQELEITRQQLKEKEESYIRLYADFENYRRRTQREKEEFSQKERQKFVLEILPVVDSFERAQQQLKLETDREREVHNSYQSVYRLLVECLKKMGVSRMKSVGQPFDPNLHEAIARQPSSEYPEDVVAVEYQPGYKLGDLVIRHAMVAVSSGSPTSEPSPSDPATPKPEPESTPASPQNPQHS |
| 4633 | sp|Q3K3T3|GRPE\_STRA1 | MSEEIKKDDLQEEVEATETEETVEEVIEEIPEKSELELANERADEFENKYLRAHAEMQNIQRRSSEERQQLQRYRSQDLAKAILPSLDNLERALAVEGLTDDVKKGLEMTRDSLIQALKEEGVEEVEVDSFDHNFHMAVQTLPADDEHPADSIAEVFQKGYKLHERLLRPAMVVVYN |
| 4634 | sp|A7X2Y2|GRPE\_STAA1 | MTNKDESVEKNTESTVEETNIKQNIDDSVEQAEESKGHLQDEAIEETSDENVIEEIDPKDQKINELQQLADENEEKYLRLYAEFENYKRRIQKENEINKTYQAQRVLTDILPAIDNIERALQIEGDDETFKSLQKGVQMVHESLINALKDNGLEVIKTEGEAFDPNIHQAVVQDDNPDFESGEITQELQKGYKLKDRVLRPSMVKVNQ |
| 4635 | sp|A6U253|GRPE\_STAA2 | MTNKDESVEKNTESTVEETNIKQNIDDSVEQAEESKGHLQDEAIEETSDENVIEEIDPKDQKINELQQLADENEEKYLRLYAEFENYKRRIQKENEINKTYQAQRVLTDILPAIDNIERALQIEGDDETFKSLQKGVQMVHESLINALKDNGLEVIKTEGEAFDPNIHQAVVQDDNPDFESGEITQELQKGYKLKDRVLRPSMVKVNQ |
| 4636 | sp|O08384|GRPE\_NITEU | MQEPHDQEPIEKQKLPGMDDVLETEHSGTVAGNTERAGEDAAPSLEQQLKEAEIRAAEHHDAWLRAKAETENIRKRAQTDIASAHKYAIDNFSVQLLAVMDSLDAALATENSTLENLRDGVELTRKQLAAVFEKFNIHTIDPQGEKFDPHQHEAMCAVESDFAPNTVIQVMQKGYMLHDRVIRPAMVTVSKAKGT |
| 4637 | sp|Q98GQ5|GRPE\_RHILO | MSDQAKDERAPSEAEAAEANAERTEGSIDGDYEALVRLLKENEELKDRALRVAAEMENLRRRTARDVHDARTYAVANFARDMLSVSDNLRRALDAIPAEAKASGDAGFKALIEGVDLTERAMLSALERHGVKKLAPEGEKFDPNFHQAMFEVPNPDVPANTVVQVVQPGYSIGERVLRPAMVGVAKGGPKIAAEAPVEPGPVNEQAEKDA |
| 4638 | sp|Q6YPM0|GRPE\_ONYPE | MFLEKDQDNLDNLETQAKELHKDCKECKNCQKEETKTTNKDNQKEDETVKNQSNQSNQSNQTKQTNTKQQKHQPKENSHLQITKLQTQIKELQQQLTQQKKSFDEELLKNQAELINFKKRAQTQKANELKYASSNFITNLLMPLEQLEKVIDMPTQNELLQKYLLGFKLLQQQIKKVLQDEGVEEIEALNKPFDPALHHALETVCDPKKPDKTNLAVLQKGYLYKKRILRPTLVKVNEWSDKNDKNE |
| 4639 | sp|A9M2A3|GRPE\_NEIM0 | MSEQTQQQNSEEAVENVEAVETVETVGNADGVQEQAAAEPAYEDLQARIAELEAQLKDEQLRALANEQNLRRRHQQEIADTHKFAGQKFAVEMLPVKDYLEMALLDQSGNFDALKMGVQMTLNELQKAFDATQIKEINPKAGDKLDPNIHQAMQAVASEQEPNTVVGVMKKGYTLSDRVLRPAMVTVAQKEA |
| 4640 | sp|Q0T181|GRPE\_SHIF8 | MSSKEQKTPEGQAPEEIIMDRHEEIEAVEPEASAEQVDPRDEKIANLEAQLAEAQTRERDGILRVKAEMENLRRRTELDIEKAHKFALEKFINELLPVIDSLDRALEVADKANPDMSAMVEGIELTLKSMLDVVRKFGVEVIAETNVPLDPNVHQAIAMVESDDVAPGNVLGIMQKGYTLNGRTIRAAMVTVAKAKA |
| 4641 | sp|B2VCX3|HFQ\_ERWT9 | MAKGQSLQDPFLNALRRERVPVSIYLVNGIKLQGQIESFDQFVILLKNTVSQMVYKHAISTVVPSRPVSHHSNNTGGGSNNYHHGSSPAPSSQPQQDSADAE |
| 4642 | sp|B4RBI9|HSLU\_PHEZH | MTEFSPREIVSELDRFIVGHPEAKRAVAVALRNRWRRRRVPDDLRDEVTPKNILMIGPTGVGKTEIARRLAKLAQAPFLKVEATKFTEVGYVGRDVDQIVRDLVESAIQMVREKRRAAVRARAEAAAEERILDALTGPGSTAAREAFRRKLRAGELDDKEVELQLADTSSPFGAMDIPGQPGASMGVLNLGDMFGKAFGGRTKTHKTTVSGAWVPLIAEESDKLVDQEALTQEALELAENQGIVFLDEIDKVASRQDRAGADVSREGVQRDLLPLIEGTTVSTKHGPVKTDHILFIASGAFHVAKPSDLLPELQGRLPIRVELKALSRQDMRRILTEPEANLIRQHQALLATEGVTLTFTEDAIDALADAAVAVNGSVENIGARRLQTILEKVLEEVSFTAADRDGETITVDAAYVNGRIGDLAGNADLSKFIL |
| 4643 | sp|A9R2N8|HSPQ\_YERPG | MIASKFGIGQQVRHSLHGYLGVVIDIDPEYSLAPPEPDEVANNKTLRSSPWYHVVIEDDDGQPVHTYLAEAQLTYEDVDAHPEQPSLDELAASIRHQLQAPHLRN |
| 4644 | sp|Q8GWL1|HSA32\_ARATH | MAAYYRWKSFEENEDRPEKPRRYGVTEMRGPHYSVLSQNLLQEIFESMGQFVDGLKFSGGSNSLIPKSFIKQAIEMAHEHGVYVSTGDWAEHMLRSGPSAFKDYVEECKQLGFDTIELNANLLEVPEETLLRYVRLIKNGGLRAKPMFAVKFNKSDIPGRNRAFGSYVVPEPRSSEFVEDIDLLIRKAERCLEAGADTIMIDADDVCKYADSLRADIIAKVIGRLGIEKTMFEASDAKLVEWFIKRYGPNVNLYVDHSQIMDLECLRGRHLGKDHQSVLSSSYFLF |
| 4645 | sp|Q4UVN7|HTPX\_XANC8 | MFNRVVLFLLTNFAVLILAGIVMSVLGVNPTQMSGLLVMAAIFGFGGSFISLLLSKFMAKRSTGAQVITEPRTQTERWLVDTVRRQAQAAGIGMPEVAIYDGPEINAFATGANRNNALVAVSTGLLQHMREDEAEAVLGHEIAHIANGDMVTMALLQGVLNTFVIVLARVVGGIIDSALSGNRDSGRGFAYYIIVFVLEMVFGLFATMIAMWFSRRREFRADAGGAQLAGRNKMIAALERLSLNHGQNTLPSQVQAFGISGGVGEGLRRLFLSHPPLTERIAALRASNGTAM |
| 4646 | sp|C3PN30|HSLU\_RICAE | MKATKTTYKKDPMGLTPSQIVNELNRFIVGQEKAKKAVAIALRNRCRRKRVEGNLRNEIVPKNILMIGSTGVGKTEIARRLAKLTNSPFYKIEATKFTEVGYVGRDVESIIRDLVEIAVNTEKTLAKTKVDIHAREKAIERILDSLVGKTSSSETREKFKEKILNGELDDKEIEISVADTTPVGGGSFEIPGMPGASMGVLNLGDMIGRALGSSKTKTKKMLVKDAMAIIIPEESEKLIDQEKIIQQAINLAENDGIVFIDEIDKIASTGSSGAKNAAISREGVQRDLLPLIEGTTVNTKYGPVKTDHILFIASGAFHIAKPSDLLPELQGRLPIRVELNSLTKDDMIKILLEPETSLIKQYSALIGTEDVRLEFAASAIEKIADYAITVNLEVEDIGARRLHTILENLLEDISFEASEMKGKKITIDDKFVENQLSKIITNLDLAKFVL |
| 4647 | sp|O57521|HS90B\_DANRE | MPEEMRQEEEAETFAFQAEIAQLMSLIINTFYSNKEIFLRELVSNASDALDKIRYESLTDPTKLDSGKDLKIDIIPNVQERTLTLIDTGIGMTKADLINNLGTIAKSGTKAFMEALQAGADISMIGQFGVGFYSAYLVAEKVTVITKHNDDEQYAWESSAGGSFTVKVDHGEPIGRGTKVILHLKEDQTEYIEEKRVKEVVKKHSQFIGYPITLYVEKERDKEISDDEAEEEKAEKEEKEEEGEDKPKIEDVGSDDEEDTKDKDKKKKKKIKEKYIDQEELNKTKPIWTRNPDDISNEEYGEFYKSLTNDWEDHLAVKHFSVEGQLEFRALLFIPRRAPFDLFENKKKKNNIKLYVRRVFIMDNCEELIPEYLNFIRGVVDSEDLPLNISREMLQQSKILKVIRKNIVKKCLELFAELAEDKDNYKKFYDAFSKNLKLGIHEDSQNRKKLSELLRYQSSQSGDEMTSLTEYVSRMKENQKSIYYITGESKDQVAHSAFVERVCKRGFEVLYMTEPIDEYCVQQLKDFDGKSLVSVTKEGLELPEDEDEKKKMEEDKAKFENLCKLMKEILDKKVEKVTVSNRLVSSPCCIVTSTYGWTANMERIMKAQALRDNSTMGYMMAKKHLEINPDHPIMETLRQKAEADKNDKAVKDLVILLFETALLSSGFSLDDPQTHSNRIYRMIKLGLGIDEDEDVPVEEPSSAAAPEDIPPLEGDDDASRMEEVD |
| 4648 | sp|Q9LDZ0|HSP7J\_ARATH | MATAALLRSIRRREVVSSPFSAYRCLSSSGKASLNSSYLGQNFRSFSRAFSSKPAGNDVIGIDLGTTNSCVAVMEGKNPKVIENAEGARTTPSVVAFNTKGELLVGTPAKRQAVTNPTNTVSGTKRLIGRKFDDPQTQKEMKMVPYKIVRAPNGDAWVEANGQQYSPSQIGAFILTKMKETAEAYLGKSVTKAVVTVPAYFNDAQRQATKDAGRIAGLDVERIINEPTAAALSYGMTNKEGLIAVFDLGGGTFDVSVLEISNGVFEVKATNGDTFLGGEDFDNALLDFLVNEFKTTEGIDLAKDRLALQRLREAAEKAKIELSSTSQTEINLPFITADASGAKHFNITLTRSRFETLVNHLIERTRDPCKNCLKDAGISAKEVDEVLLVGGMTRVPKVQSIVAEIFGKSPSKGVNPDEAVAMGAALQGGILRGDVKELLLLDVTPLSLGIETLGGVFTRLITRNTTIPTKKSQVFSTAADNQTQVGIRVLQGEREMATDNKLLGEFDLVGIPPSPRGVPQIEVTFDIDANGIVTVSAKDKTTGKVQQITIRSSGGLSEDDIQKMVREAELHAQKDKERKELIDTKNTADTTIYSIEKSLGEYREKIPSEIAKEIEDAVADLRSASSGDDLNEIKAKIEAANKAVSKIGEHMSGGSGGGSAPGGGSEGGSDQAPEAEYEEVKK |
| 4649 | sp|A6U254|HRCA\_STAA2 | MITDRQLSILNAIVEDYVDFGQPVGSKTLIERHNLNVSPATIRNEMKQLEDLNYIEKTHSSSGRSPSQLGFRYYVNRLLEQTSHQKTNKLRRLNQLLVENQYDVSSALTYFADELSNISQYTTLVVHPNHKQDIINNVHLIRANPNLVIMVIVFSSGHVEHVHLASDIPFSNDKLNTISNFVTNKLTEFNQNLQDDIVSFVQSEQEEIFINKLINTMNNHISNQSNSIYMGGKVKLIDALNESNVSSIQPILQYIESNRIAELLQDISSPNINVKIGNEIDDSLSDISIVTSQYHFDETLKGQIAVIGPTAMHYQNVIQLLNRIW |
| 4650 | sp|B8H8R9|HRCA\_PSECP | MSEPRKLEVLRAIVEDYVHSREPVGSKALVERHHLGVSSATIRNDMAALEDEGLITAPHTSAGRIPTDKGYRLFVDQISAVKPLSQAERRAIQSLLEGSDDLDDVLDRTVRLLSQLTNQVAVVQYPHLSRALIRHIEFVLLAPRKVLVVLIANSGNVEQRVIDVGQDLADDALSALRTRFLGTLAGTPLARLAQALPAVVSSVSPGERQAAQALAHALEILAHSSREDRMVMAGTANLARSNVDFPLSIGPVLEALEEQVVMLRLLSDMAQDHRGVAVSIGRENPYDGLAEASVVATGYGPDSVAKIGILGPTRMDYPNTMAAVRAVARYLSRILGP |
| 4651 | sp|Q8GYY1|HSFA3\_ARATH | MSPKKDAVSKPTPISVPVSRRSDIPGSLYVDTDMGFSGSPLPMPLDILQGNPIPPFLSKTFDLVDDPTLDPVISWGLTGASFVVWDPLEFARIILPRNFKHNNFSSFVRQLNTYGFRKIDTDKWEFANEAFLRGKKHLLKNIHRRRSPQSNQTCCSSTSQSQGSPTEVGGEIEKLRKERRALMEEMVELQQQSRGTARHVDTVNQRLKAAEQRQKQLLSFLAKLFQNRGFLERLKNFKGKEKGGALGLEKARKKFIKHHQQPQDSPTGGEVVKYEADDWERLLMYDEETENTKGLGGMTSSDPKGKNLMYPSEEEMSKPDYLMSFPSPEGLIKQEETTWSMGFDTTIPSFSNTDAWGNTMDYNDVSEFGFAAETTSDGLPDVCWEQFAAGITETGFNWPTGDDDDNTPMNDP |
| 4652 | sp|A9KKU2|HRCA\_LACP7 | MQLDDRKLKILQAIIRNYLETGEPVGSRTISKYTDLNLSSATIRNEMSDLEELGYIIQPHTSAGRIPSDKGYRLYVDTMMEDKVTEVENMRDMLLEKADKMETLLQQVARLLAVNTNYATMVTSPQYRSRKVKFLQVSEVDTTQILTIIVLEGNIVKNKIIAIAEPLDKETLLKLNIVLNTFLQGLDLSEINLALIRQMKEQAAEHSSVVSDILDAVAQAISEEDDIQIFTSGATNILKYPELNDMEKASELLYTLEEKKQLTNLMNNEVSSGENRGIQVYIGNETPVDSMKDCAVVTATYQIEEGVYGKIGIIGPKRMDYEKVVSTLQNLMCQLDDIFKKDNDR |
| 4653 | sp|Q2RNA1|HSLU\_RHORT | MNAFTPREIVSELDRHIVGQKDAKRAVAIALRNRWRRQQLSEALRDEVLPKNILMIGPTGVGKTEIARRLAKLAQAPFLKVEATKFTEVGYVGRDVESIIRDLVETALTQERDRLRKQVNAKAEANAEERVLDALVGDRASPETRQKFRKMLREGQINDKEIEVQVQDSGGALPTMDIPGMPGAQMGMLNLNDIFGKAFGNRTKARKMTVEDSHAVLVREEADKLLDEEQVVKAAIAAVENNGIVFLDEIDKIATASERRGGDVSREGVQRDLLPLIEGTTVSTKYGPVKTDHVLFIASGAFHTAKPADLLPELQGRLPIRVELSALNAGDFKRILLEPEASLITQYKALLATEGVTLEFPDDTVEAIAEIATEINGSVENIGARRLHTVLERLLEEISFTATDRSGETIVVTRDMVKERVGALAAKADLSRFIL |
| 4654 | sp|B7UKA5|HSLO\_ECO27 | MPQHDQLHRYLFENFAVRGELVTVSETLQQILENHDYPQPVKNVLAELLVATSLLTATLKFDGDITVQLQGDGPMNLAVINGNNNQQMRGVARVQGEIPENADLKTLVGNGYVVITITPSEGERYQGVVGLEGDTLAACLEDYFMRSEQLPTRLFIRTGDVDGKPAAGGMLLQVMPAQNAQQDDFDHLATLTETIKTEELLTLPANEVLWRLYHEEEVTVYDPQDVEFKCTCSRERCADALKTLPDEEVDSILAEDGEIDMHCDYCGNHYLFNAMDIAEIRNNASPADPQVH |
| 4655 | sp|B2G6W1|HRCA\_LACRJ | MLTQRQKKILQAIVRQYTSTGQPVGSKHLAEKLPFKVSSATVRNEMAVLEDNDLILKEHSSSGRIPSKRGYRYYVDNLLDPQAVTDNDLVVIQNSLGNGFQKIDEIISHSADILSNLTSYTAFTLKPEQESVRLSGFRVVPLGNHKVIAILVTDSGEVENQSFTLPPDIDTDAMQAVIRMINDQLVGLPLSEVVKRLKDDIPLQVLHYMHSPDGFLDIFDNVLSQAARERFFVGGRLNLLDFASTHDPHAIQSLYGLLDKNDNLSNILDSTLTSDNGVNVKIGQEISKNKLLDDYSLITASYNVEQYGRGIIAVLGPTRMPYSRTIGIVNAFRQELAKRLLDFYRHYYDS |
| 4656 | sp|A0AIS6|HRCA\_LISW6 | MLTERQLLIFRAIIDHFTWTIQPVGSKNLLKEKGLPYSSATIRNEMGVLEEYGFIEKTHSSSGRVPSEKGYRFYVDYLLQLKKLDKSDRQMIRSFFSENYYEMEGLIQNSALMLSDLTNYTSILLGPEATKNHLSGFRFVPINNFQAMLILITDQGHVDNHLVTIPEGTTLSDIERMVNILNERLVGLSLDDLKVQIPMEVKELLGKHVRNYESFMHVFSDSFAQASQQKVYFGGKTNILNQPEFHDINKVREMLHLMEEEQDVYELFRDIPDGLQVKIGRENNNSLMEDCSIITATYNIAGERVGGIVLLGPTRMEYNRMMGLVDVMSRDLTDVLTKLYRDNQN |
| 4657 | sp|Q81LS0|HRCA\_BACAN | MLTERQLLILQTIIDDFIGSAQPVGSRTLAKKDEITYSSATIRNEMADLEELGFIEKTHSSSGRVPSEKGYRFYVDHLLAPQNLPNDEIVQIKDLFVERIFEAEKIAQQSAQILSELTNYTAIVLGPKLSTNKLKNVQIVPLDRQTAVAIIVTDTGHVQSKTITVPESVDLSDLEKMVNILNEKLSGVPMSELHNKIFKEIVTVLRGYVHNYDSAIKMLDGTFQVPLSEKIYFGGKANMLSQPEFHDIHKVRSLLTMIDNEAEFYDILRHKQVGIQVKIGRENSATAMEDCSLISATYSIGEEQLGTIAILGPTRMQYSRVISLLQLFTRQFTDGLKK |
| 4658 | sp|Q9LA06|HTRA\_LACLA | MAKANIGKLLLTGVVGGAIALGGSAIYQSTTNQSANNSRSNTTSTKVSNVSVNVNTDVTSAIKKVSNSVVSVMNYQKDNSQSSDFSSIFGGNSGSSSSTDGLQLSSEGSGVIYKKSGGDAYVVTNYHVIAGNSSLDVLLSGGQKVKASVVGYDEYTDLAVLKISSEHVKDVATFADSSKLTIGEPAIAVGSPLGSQFANTATEGILSATSRQVTLTQENGQTTNINAIQTDAAINPGNSGGALINIEGQVIGITQSKITTTEDGSTSVEGLGFAIPSNDVVNIINKLEADGKISRPALGIRMVDLSQLSTNDSSQLKLPSSVTGGVVVYSVQSGLPAASAGLKAGDVITKVGDTAVTSSTDLQSALYSHNINDTVKVTYYRDGKSNTADVKLSKSTSDLETSSPSSSN |
| 4659 | sp|B5E230|HRCA\_STRP4 | MVTERQQDILNLIIDIFTKTHEPVGSKALQESINSSSATIRNDMAELEKQGLLEKAHTSSGRMPSVAGFQYYVKHSLDFDRLAENEVYEIVKAFDQEFFKLEDILQEAANLLTDLSGCTVVALDVEPSRQRLTAFDIVVLGQHTALAVFTLDESRTVTSQFLIPRNFLQEDLLKLKSIIQERFLGHTVLDIHYKIRTEIPQIIQRYFTTTDNVIDLFEHIFKEMFNENIVMAGKVHLLNFANLAAYQFFDQPQKVALEIREGLREDQMQNVRVADGQESCLADLAVISSKFLIPYRGVGILAIIGPVNLDYQQLINQVNVVNRVLTMKLTDFYRYLSSNHYEVH |
| 4660 | sp|B7GQV7|HRCA\_BIFLS | MTQSRRMLVLRAVVEDYIRSQEPVGSTSLTRDHDLGVSSATIRNDMAALEDEGYLIQPHTSAGRVPTEKGYRYFVDRLATVVPLSEAQRRGINSFLSGSVSLKDALQRSARLLSEITGQVAVVTSPSLAKATLRHVEMVPVAMTTLLAVVITDTGRVAQHGLTIASMPAVDEINRLSNTVNEQCVGLSLSKSAETVRSIAASAGYESVRGVADALADAFESMALDERANELYMSGTSHLAHSRSLTDLAPLFDALEEQVVLMKLMSNLSEETNASGVGVAIGSEMHTPGLLHASVVSSGYGRSGEAGEPAGNDPVGEPETESETESQTNDMEPIAFVGSIGPTHMDYAATMAAVRAVARYLTAFLSEGRTQD |
| 4661 | sp|Q28W08|HSLU\_JANSC | MSDLTPREIVSELDRFIIGQSDAKRAVAVALRNRWRRKQLGDDLRDEVYPKNILMIGPTGVGKTEISRRLAKLAKAPFIKVEATKFTEVGYVGRDVEQIIRDLVDAAQVMIRENMREEVKAKAHDAAEERVIEALAGKDAREQTRDMFRKKLRAGELDDTVIELEVADNSNPLGGFEIPSQPGGMGGMGPGMMNLGDLFKGMGGRTVKRRLTVAASYDLLIEDEADKLLDAETVTKEALSAVEQSGIVFIDEIDKVCAKSDARGADVSREGVQRDLLPLIEGTTVSTKHGPVKTDHILFIASGAFHIAKPSDLLPELQGRLPIRVNLRALTEDDFVRILTETDNALTRQYTALMATEEVAVEFTDGGIRALAHIAAEVNESVENIGARRLYTVLERVFEELSFTAPDRSGDAVTVDEAFVEQNLGELTRSTDLSRYVL |
| 4662 | sp|B7L831|IBPA\_ECO55 | MRNFDLSPLYRSAIGFDRLFNHLENNQSQSNGGYPPYNVELVDENHYRIAIAVAGFAESELEITAQDNLLVVKGAHADEQKERTYLYQGIAERNFERKFQLAENIHVRGANLVNGLLYIDLERVIPEAKKPRRIEIN |
| 4663 | sp|B7NF04|IBPA\_ECOLU | MRNFDLSPLYRSAIGFDRLFNHLENNQSQSNGGYPPYNVELVDENHYRIAIAVAGFAESELEITAQDNLLVVKGAHADEQKERTYLYQGIAERNFERKFQLAENIHVRGANLVNGLLYIDLERVIPEAKKPRRIEIN |
| 4664 | sp|A7FPA7|IBPB\_YERP3 | MRNYDLSPLLRQWIGFDKLASTMQGGQEPQGFPPYNIEKTDDNHYRISLALAGFKQSELDIEVEGPRLTVRGKPTPVEKQVEYLHQGLVRKEFSLTFTLAEHLNVDNAQFENGLLHIDLLRQVPEALQPQRIAIGSATPQERQVLESPEAPDQQ |
| 4665 | sp|B1JGZ6|IBPB\_YERPY | MRNYDLSPLLRQWIGFDKLASTMQGGQEPQGFPPYNIEKTDDNHYRISLALAGFKQSELDIEVEGPRLTVRGKPTPVEKQVEYLHQGLVRKEFSLTFTLAEHLNVDNAQFENGLLHIDLLRQVPEALQPQRIAIGSATPQERQVLESPEAPDQQ |
| 4666 | sp|Q9LSE2|ICE1\_ARATH | MGLDGNNGGGVWLNGGGGEREENEEGSWGRNQEDGSSQFKPMLEGDWFSSNQPHPQDLQMLQNQPDFRYFGGFPFNPNDNLLLQHSIDSSSSCSPSQAFSLDPSQQNQFLSTNNNKGCLLNVPSSANPFDNAFEFGSESGFLNQIHAPISMGFGSLTQLGNRDLSSVPDFLSARSLLAPESNNNNTMLCGGFTAPLELEGFGSPANGGFVGNRAKVLKPLEVLASSGAQPTLFQKRAAMRQSSGSKMGNSESSGMRRFSDDGDMDETGIEVSGLNYESDEINESGKAAESVQIGGGGKGKKKGMPAKNLMAERRRRKKLNDRLYMLRSVVPKISKMDRASILGDAIDYLKELLQRINDLHNELESTPPGSLPPTSSSFHPLTPTPQTLSCRVKEELCPSSLPSPKGQQARVEVRLREGRAVNIHMFCGRRPGLLLATMKALDNLGLDVQQAVISCFNGFALDVFRAEQCQEGQEILPDQIKAVLFDTAGYAGMI |
| 4667 | sp|P0DKS2|IBP\_WIGBR | MDNLFSRITGEQPLSENPNYNLIQLDKYNYELSVSVPGYKKEELEVSIINNRLNINSKSKKEKEKETKKINWIHQGILKNNFSISFKLEHKIKIKYANLKHGILNLSFFYDLPDQEKPKKISINEEHDHKCNI |
| 4668 | sp|B2U3Y5|IRAP\_SHIB3 | MKNLIAELLLKLAQKEEESKELCAQVEALEIIVTAMLRNMAQNDQQRLIEQVDGALYEVKPDASIPDDDTELLRNYVKKLLKHPRQ |
| 4669 | sp|C4ZTE1|IRAP\_ECOBW | MKNLIAELLFKLAQKEEESKELCAQVEALEIIVTAMLRNMAQNDQQRLIDQVEGALYEVKPDASIPDDDTELLRDYVKKLLKHPRQ |
| 4670 | sp|Q8SR69|IPYR\_ENCCU | MPAYSTVRVGKKYSPSFKVYVTQDGKIVSPFHDIPLYMSGNREIVSVVNEIPRFENGKFEINKEEAFNPIKQDIKKGWPRFVKNVFPMKGYLWNYGALPQTWENPHEVDRHTGARGDNDPLDVIEIGRKRKEVGEVYQAKVLGSIALVDEGECDWKVVVIDVNDEKAKEINDIEDVRKVYEGLLEQTIFWFKNYKVPDGKPKNNFALDGKYMDKKFTVGIIKSAYENWCGMINSKSDTNICKENSTLMDKVDSPAIIQEDLSDEEVPECVHQFEFIK |
| 4671 | sp|C1D3U5|DDROP\_DEIDV | MKLCERLRELRQERGLRLKDIAGAAQISVPYLSDLERGRTNPSLETLQSLASTYGITVHDLLEGVEFYGDQTAGALPQGLADLIADPALGAQLTPDWIRTLARIELRGKRPRDKQDWFEIYLHLKRILD |
| 4672 | sp|Q0IIB6|DDIT3\_BOVIN | MAAESLPFSFGALSSWELEAWYEDLQEVLSSDENRGTCVSPPGNKEEESKSFTTLDPASLAWLTEEPGPPEVTHTSQSPCSPESSQSSLAQEEEEEDQGRTRKRKQSGQSPARAGKQRMKEKEQENERKVAQLAEENERLKQEIERLTREVEATRRALIDRMVNLHQA |
| 4673 | sp|A0LJ41|DNAJ\_SYNFM | MGKRDYYEILGVTRQASEEEIKKAYRKLALKYHPDRNPGDKDSEELFKEAAEAYEVLHDAQKKRIYDTYGHEGLRGTGFSGFRGFEDIFSSFGDVFQEFFNFGFGAGGQSRTAARPGDDLLYDLSLTFEEAVFGTEKEIRLQTLTTCEECNGSGAEPGTRETVCPVCQGSGQVVQSQGFFRISATCTRCQGMGKVLVSPCKTCNGQGRTRQSKTVQVRVPAGVDTGTRLRLRGEGESGYRGGVAGDLYVRLHVNPHEFFERDGDNLYCKVSVSFAQAILGDQIEIPTLDGGRELKIQPGTQPGAVIRFSGEGVPRLRGYGRGDLFIEVEVKIPTRITPRQEEIVTEFMQIEKEKSGEKVRKWPWSKRKDREKKSMAESTREART |
| 4674 | sp|Q8DI58|DNAK2\_THEEB | MAKVVGIDLGTTNSCVAVMEGGKPTVIANAEGFRTTPSVVAYTKNGDRLVGQIAKRQAVMNPENTFYSVKRFIGRRFDEVTHEATEVSYKVLNVNGNVKLDCPALGKQFAPEEISAQVLRKLKEDASKYLGEEVTQAVITVPAYFNDSQRQATKDAGKIAGLEVLRIINEPTAASLAYGLDKKANETILVFDLGGGTFDVSILEVGDGVFEVLATSGDTHLGGDDFDKKIVDYLAESFRAQEGIDLRKDRQALQRLTEAAEKAKIELSSVMQTEINLPFITATQDGPKHLDMTLTRAKFEELCSDLIDRCRVPVEQALKDAKLSKDQIDEVVLVGGSTRIPAIQELVKRLLGKDPNQSVNPDEVVAVGAAIQAGVLAGEVKDILLLDVTPLSLGVETLGGVMTKIIPRNTTIPTKKSEVFSTAVDGQTNVEIHVLQGEREMAADNKSLGTFRLDGIPPAPRGVPQIEVTFDIDANGILNVTARDKGTGKQQSISITGASTLPKEEVERMVREAEMNAAADKAKREKIETKNQAEQLCYQAEKQLNELGDKVSTSDKDRLTSLIANLRSEIGTEAEKKPIDAIDFGRVKSLMQDLQQALYSVGSSVYQSAQSSDGTGSSSSGGSGSGGDDEVIDAEFSETK |
| 4675 | sp|Q9ZDX9|DNAK\_RICPR | MGKVIGIDLGTTNSCVAVMEGKEPKVIDNAEGERTTPSIIAFANSERLVGQPAKRQAVTNPRNTIYAVKRLIGRNFTDPMVRKDQGLVPYNIVKADNGDAWVEADNHKYSPSQISAFILQKMKETAENYLGEKVTQAVITVPAYFNDAQRQATKDAGKIAGLEVLRIINEPTAAALAYGFEKSSSKTIAVYDLGGGTFDVSILEISDGVFEVKSTNGDTFLGGEDFDTRILNHLIEVFKKESGIDLSKDPLALQRLKEAAEKAKKELSSTSTTDINLPYITADSTGPKHLNIKFTRAELEKLVDDLIEKTIEPCRQALKDAGFKPNDIQEVVLVGGMTRMPKVQEAVKKFFGREPHKGVNPDEVVALGAAIQGGVLNKEVTDILLLDVTPLSLGIETLGGVFTRLIDRNTTIPSKKSQVFSTADDNQHAVTIRVFQGEREMAKDNKLLGQFNLEGIPPAPRGVPQIEVTFDIDANGIVHVSAKDKASGKEQKVTIQASGGLSDAEIEQMVKDAEHNADEDKKRKELIETKNAADSLVYSTEKTLREYGDKLSSEEKGTVEEALTSLKAALESEDASLIKEKTGNLTAANMKIGEAMYKTQTENQHSEANTVNNEKVVDADFQDVDKK |
| 4676 | sp|Q6GGC1|DNAJ\_STAAR | MAKRDYYEVLGISKDASKDEIKKAYRKLSKKYHPDINKEEGADEKFKEISEAYEVLSDDNKRASYDQFGHDGPQGFGGQGFNGSDFGGFSGFGGGGFEDIFSSFFGGGRQRDPNAPQKGDDLQYTMTLTFEEAVFGTTKEISIRKDVTCETCHGDGAKPGTSKKTCSYCNGAGHVAVEQNTILGRVRTEQVCPKCNGSGQEFEEACPTCHGKGTENKTVKLEVKVPEGVDNEQQIRLAGEGSPGVNGGPAGDLYVVFRVKPSETFKRDGDDIYYKLNVSFPQAALGDEIKIPTLNNEVMLTIPAGTQTGKQFRLKEKGIKNVHGYGYGDLYVDIKVVTPTKLTDRQKELMKEFAQLNGEEINDQPSNFKDRAKRFFKGE |
| 4677 | sp|Q9AP34|ECTB\_SPOPA | MLLTKEKNGMEIIEERESAVRSYSRSFPTVFEKAKDHLVWDVDGKEYIDFFAGAGSLNYGHNNEKMKTKIMDYVMNDGISHSLDMGTVARAEFLETFNEVILRPRNLDYKVMFPGPTGTNTVESALKIARKVTGRQNIISFTNAFHGMTLGSLSISGNSSIRNGAGVPLTNTISMPYDTFFKNGNAIDYLEQYLEDTGSGVDLPAAMILETVQGEGGINAASFEWLRGIEKLCRRYDILLIIDDVQAGCGRTGTFFSFEPAGIQPDIVCLSKSIGGYGLPLAITLIKPEHDIWEPGEHNGTFRGNNMAIVAATEALSYWKTDDLAKSVQKKSKIIKLRFEQIVEDYPELKATTRGRGFMQGIACGKGKEAYATKICAKAFEKGVIMETSGPSGEVVKFLGALTIDETSLIKGLGILEEATEEVVRQ |
| 4678 | sp|Q9AP33|ECTC\_SPOPA | MIVRTIDEIIGTENEVESDTWTSRRLLLEKDGMGFSFHETIIYAGTETHIHYQNHLEAVYCVGGDGEIETVSDGKVYPIQDGTMYALDQHDEHYPRGGKTDMRLICTFNPPLVGTETHDENGVYPLLSKQPVGK |
| 4679 | sp|Q94AT5|EXEC2\_ARATH | MATTQPCLIGQIIAVPQFHILFSPRNSLKPELSTNKRTNFSVSIGLRHSFASSISTCNPKAPSLSCLRNCAAVDGADTSSSEDKWDWDWDRWNRHFSEIEEVESVVSLLKSQLEDAVEKEDFEEAVKLKQAISEATVDDAVAEIMRQLQTAVNEERYHDASRLCNETGSGLVGWWVGLPRDSEEPFGRIVHITPGVGRFIGKSYSPRQLVAEAAGTPLFEIFVIKDTDGGYVMQVVYVQHVKQNLTISENSFSKVQQSSKSSINDPSILDVRGSELKVDKKEDTQLNAGEPTEEGIKNVIKFLKDKIPGLKLKVMDVIKIPEEEIVGSDDATEELVGEGTEETNSSDDEEEVEEEENDSIEAISSMDSADYGKHSNTKLVIGGVLHNIEDSSIDDEIVRVSANIMDTERDSFILHVPGRSKRDIDTRKNRVSKEQVTALAAQGLSDLLPPEVAEAFWGEKASLKVSKHVHEIVKLAINQAQKGNHLSEYTAFNRIITPESNLDPFDGLYVGAFGPYGTEIVQLKRKYGRWDDAEGSNSSDIEFFEYVEAVKLTGDPNVPAGQVTFRARIGNGSRMTNHGLFPEELGVLASYRGQGKIADFGFKKPRWVEGKLLKLNGKGMGPYVKGADLGFLYIGPEQSFLVLFNRLRLPE |
| 4680 | sp|Q3EBY8|FB111\_ARATH | MGDWSKLPEELLGLIALRLYSVIELIRFRSICKSWRSSASGVNKNHSLSSPLIYFKPLQIILARAQANGQILSKYHGTVLSRATFFRVTLASSPDQGWLIKSDTDLKYRNFHLLNCLSRKALGRSRKLISLSEFIVSEIQESYAVVGRRTRETASEFKRVFLVRVQGGDHRVLVIGIDGKIRFWKGGIWNGIKKQVAQFSDFVLDEGLTYAVDTKGIMWWISSAYDIIRYGTKLHENITNGSCGEKRFVRCRGELYIVDRLIDENLLKRKADSYDDNAIVHFRNADYTNADLWEDGNGNDDFFAAQAHRFIHVLHDNLGNVSCKPFERDPPKTIGFKVYKNDEELLKWVEVKSLGDKAIVIATDACFSVSAHEFYGCLPNSIYFTDKKEEEVKVFKLDDGSITTMSESEQSCFQMFVPSFL |
| 4681 | sp|Q9SNX8|GAPN\_APIGR | MAGSGVYADIIEGDVFKYYSDGEWKKSSSGKSVAIINPTTRMTQFKVQACTQEEVNKAMETAKKVQKQWAKTPLWKRAELLHKAAAILKEHKAAIADCLVKEIAKPAKDSVTEVVRSGDLVSYCAEEGVRLLGEGKFLVSDSFPGNERTKYCLTSKIPLGVILAIPPFNYPVNLAVSKIGPALIAGNALVLKPPTQGAVACLHMVHCFHLAGFPKGLISCITGKGSEIGDFLTMHPGVNCISFTGGDTGIAISKKAGMVPLQMELGGKDACIVLEDADLDLVASNVIKGGFSYSGQRCTAIKVILVMQSVADTLVEKVNAKVAKLTVGPPEDNSDITPVVSESSANFIEGLVKDAKEKGATFCQEYKREGNLIWPLLLDNVKPDMRIAWEEPFGPILPVIRINSAEEGIHHCNASNFGLQGCVFTRDINKAMLISDAMESGTIQINSAPARGPDHFPFQGLKDSGIGSQGITNSINMMTKIKTTVINLPSPSYTMG |
| 4682 | sp|Q9RR44|GBUC\_LISM4 | MLKKLITTAVLAMLIFTLAACGTTLAPYDAKKDLGEQINYTITGIDAGAGIMLATQNAIKDYHLDDDNWQLQTSSTAAMTSTLQKAMKDKRPIVVTGWTPHWMFTKFDLKFLDDPKNVYGNAENIHTIVRKGLKEDKPSAYQVLDNFFWTAEDMSEVMLEVNDGVDPEEAAKKWIKNNPDKVAKWTDGVEKVDGDEIKLTYVAWDSEIASTNVVAEALKQVGYKPTIQAMEIQPMWASVATDAADGMVAAWLPNTSGIYYKDYKGKFEDLGPNLKGAKIGLAVPKYMTNINSIEDLKTSK |
| 4683 | sp|C1CQ17|GRPE\_STRZT | MAQDIKNEEVEEVQEEEVVETAEETTPEKSELDLANERADEFENKYLRAHAEMQNIQRRANEERQNLQRYRSQDLAKAILPSLDNLERALAVEGLTDDVKKGLGMVQESLIHALKEEGIEEIAADGEFDHNYHMAIQTLPADDEHPVDTIAQVFQKGYKLHDRILRPAMVVVYN |
| 4684 | sp|Q5WV14|GRPE\_LEGPL | MSKQNKKDWKKFRDEHKEEHKVENEILEEETDEESQHQEPALGHPSYTALEEQLTLAEQKAHENWEKSVRALAELENVRRRMEREVANAHKYGVEKLISALLPVVDSLEQALQLADKNSDPSMHEGLELTMKLFLDALQKFDVEQIDPLGQTFDPQQHEAMSMQPAPGAPPNSVITVFQKGYKLSDRVIRPARVIVSTK |
| 4685 | sp|B3PDC1|HFQ\_CELJU | MSKGHSLQDPYLNVLRKERVPVSIYLVNGIKLQGQVESFDQFVVLLKNTVSQMVYKHAISTVVPSRAVRVPLLNEAGGAEGEEDEQAE |
| 4686 | sp|B0TZB1|HFQ\_FRAP2 | MSRISSLQDPFLNALRKEKVSVSVYLVNGIKLQGQVEAFDQFCIVLRNTVNQMVYKHAISTIVPAKSVRMVYSSFNPYHQNANDDQDENVDDIHSDELEVQENQENINE |
| 4687 | sp|A8FDJ0|HFQ\_BACP2 | MKPINIQDQFLNQIRKDNTFVTVFLLNGFQLRGQVKGFDNFTVLLETEGKQQLIYKHAISTFAPQKNVNLELE |
| 4688 | sp|Q7WHN6|HFQ\_BORBR | MSNKGQTLQDPFLNTLRKEHVPVSIYLVNGIKLQGQIESFDQYVVLLRNTVTQMVYKHAISTVVPARAVNFQVEVPAE |
| 4689 | sp|O31796|HFQ\_BACSU | MKPINIQDQFLNQIRKENTYVTVFLLNGFQLRGQVKGFDNFTVLLESEGKQQLIYKHAISTFAPQKNVQLELE |
| 4690 | sp|A8MFD1|HFQ\_ALKOO | MKNNINLQDVFLNQVRKENIGITIFLVNGFQLKGFVRGFDNYTIVLDSDGKQQMIYKHAVSTISPNSPVNFSAALKKIND |
| 4691 | sp|A0RH87|HFQ\_BACAH | MKQSINIQDQFLNQLRKENTFVTLYLLNGFQLRGLIKGFDNFTVLLETEGKQQLIYKHAISTFVPQKNVSIELE |
| 4692 | sp|B9IUM6|HFQ\_BACCQ | MKQSINIQDQFLNQLRKENTFVTLYLLNGFQLRGLIKGFDNFTVLLETEGKQQLIYKHAISTFVPQKNVSIELE |
| 4693 | sp|Q2SBC2|HFQ\_HAHCH | MSKGQSLQDPYLNALRKERIPVSIFLVNGIKLQGQIESFDQFVILLKNTVSQMVYKHAISTVVPARNVRIAAQGEGENEASNA |
| 4694 | sp|A4J5Q0|HFQ\_DESRM | MTKPQINLQDAFLNQVRKENIPVTIFLINGFQLKGMVKGFDNFTVILESDGKQLMVYKHAISTISPLRPVNTSFSENKPI |
| 4695 | sp|Q81A74|HFQ\_BACCR | MKQSINIQDQFLNQLRKENTFVTLYLLNGFQLRGLIKGFDNFTVLLETEGKQQLIYKHAISTFVPQKNVSIELE |
| 4696 | sp|Q10KX8|HFB4D\_ORYSJ | MAFLVERCGGEMVVSMERSHGRSTTTAAAVTAAPAPFLSKTYQLVDDPSTDDVVSWGEDEATFVVWRPPEFARDLLPNYFKHNNFSSFVRQLNTYGFRKIVADRWEFANEFFRKGAKHLLSEIHRRKSSSCSQPQPPPPFPMHQHYPLSLFSPPTTPRSPPVGAAAAAAYHFQEEYCSSPADYAGGGGDLLAALSEDNRQLRRRNSLLLSELAHMRKLYNDIIYFLQNHVEPVAPPPLAAATSCRLVELGPSTTERRRCAASPSGDNDDDAAVRLFGVRLDDDHGKKRRVQLVQEDEGDEQGSEG |
| 4697 | sp|Q05832|HSP11\_OXYRB | MSLIPNNWFNTGRRSNIFDPFSLDEIWDPFFGLPSTLSTVPRSETAAETAAFANARIDWKETPEAHVFKADLPGVKKEEVKVEVEDGNVLRISGQRAREKEEKNDTWHRVERSSGQFMRKFRLPENAKVDQVKAGMENGVLTVTVPKNEAPKPQVKAINVY |
| 4698 | sp|Q0I534|HSLO\_HAES1 | MIYQTDNDKLYRYLFKDRAVRGEWVRLNKTFTDTLNSHEYPRIVRNLLGEMMVATNLLTATLKFKGNITIQIQGNGPLKLLLVNGSDSQQIRALARLQDDVYDDMTLSELVGNGILVITIAPTNGERYQGVIALDKPTIAECLEDYFIRSEQLQTQLLIRSGEYEGKPVAAGLLLQIMPDGTGSQEDFEHLATLAATVKDEELFGLTAENLLYRLYHEETVEIYPPSAVEFHCGCSLERSGSALLLISDDEIENILTEHGGSIDMQCECCGTHYFFDKKTIEKLKA |
| 4699 | sp|Q652V8|HSP16\_ORYSJ | MADLFFGGPFRRILYGRPFPPDWASASATAAMDWVETPTSHVLRINVPGLGKDDVKVQVEDGNVLTVRGAAPHAAAEKEREREKDVVWHVAERGRPEFAREVALPAEVRVEQIRASVDNGVLTVVVPKEPAPARPRTRPIAVSSKL |
| 4700 | sp|B8ZQ24|HSLO\_STRPJ | MDKIIKTISESGAFRAFVLDSTETVRTAQEKHQTQASSTVALGRTLIASQILAANEKGNTKLTVKVLGSSSLGAIITVADTKGNVKGYVQNPGVDIKKTATGEVLVGPFVGNGQFLVITDYGTGNPYNSITPLISGEIGEDLAFYLTESQQTPSAVGLNVLLDEEDKVKVAGGFLVQVLPGAKKEEIARFEKRIQEMPAISTLLESDDHIEALLKAIYGDEAYKRLSEEEIRFQCDCSHERFMNALASLPSSDLQEMKEEDHGAEITCQFCQTTYNFDEKDLEELIRDKS |
| 4701 | sp|Q93TV7|HSP15\_LEPIN | MTNAVLNEKNHSVTSEETKKERVRILAPRVDIYSDEENIYLLADLPGVEEKDVQVQLEKDQLIISGKTSNKDIQGELRYSEFRTGEYKRTFTLTESVEEDRISAVYKNGVLNLTLPKRKPLTKKIEVRSE |
| 4702 | sp|Q0SMU9|HTPG\_BORAP | MKKQFDTEVNDLLYLIIHSLYSHKEIFLRELISNASDAIDKLKFLSLTNEKFKNIALEPKIEITFDDKSILIKDNGIGMNEQELTNHLGVIAKSGTKEFINNLKQDEKKSANLIGQFGVGFYSAFIVSEKVEVTSKKALESDAYIWSSDGKTGYEIEKAKKEDPGTEIKLYLNKEGLEYANKWKIQEIVKKYSNHINYPIYIKYNEPIMKDGKQEGIEEKEEKLNETTALWTKNKSEIKTEEYNEFYKNTTFDYENPLMYIHTKAEGNLEYTNLFYIPSKAPYDLYYPNTKPGVKLFINRIFITDSEGSLLPNYLRFIKGIIDCQDLPLNVSREILQQNKILSKIKSSSVKKILSELEKLSKKNPEKFSEFSKEFGRCIKEGVYSDFENREKLISLIRFKSSSVDGFVSFKEYKERMNEGQKSIYYITGGKENILKENPIVTAYKEKGFEILIMDDELDEAILNLIPEYEGLKLKAINKNETSNELKDENFKKIEEEFKDTLTRVKEILKDQIKEVNLSATLIKEPSAIIVDSNDPTYQMQKIMLSMGQEVKEIKPILELNPNNKIVQNLKNLEPEKLEKISILLFEEALLTSGMPSKNPRKFINIINEFLEKDLL |
| 4703 | sp|Q5P1C5|HTPG\_AROAE | MTTEHAAGAQTLNFQAEVKQLLHLMIHSLYSNREIFLRELVSNASDACDKLRFEALDKPELFEGDSELAIRVGFDSEAKTVTVSDNGIGMSRDEVITHLGTIAKSGTKEFFSQLTGDQKKDAHLIGQFGVGFYSAFIVADKVTVVTRRAGLAAAEGVKWECAMTGDAAGEYTVEAIEKAARGTEITLHLREGQEDLLSGWKLRGLIRKYSDHIVQPILMKKEEWDKDKNEQVTTDEDETVNQANALWTRSRNDITEEEYKGFYKHVGHDFDEPLAWTHARVEGRHEYTQLLYIPSHAPFDMWDRNARHGIKLYVKRVFIMDDAEKLMPAYLRFVRGVVDSSDLPLNVSREILQESKDIDTIRSGCTKKVLGLLESLATSDEAADREKYATFWKEFGPVLKEGVGEDFANKDKIAGLLRFASTHADTPDEVVSLADYLARMKEGQDKIYYVTAESFNAAKNSPHLEIFRKKGIEVLLLTDRVDEWVIGNLPEFDGKALVSVAKGGLDLGKLEDEAEKKETEKAADEYKELLEKMKASLGERVKEVRVTHRLTDSPACLVADEHDVGMNLARILKAAGQQAPASKPILEINPQHPAVMRLKYEERQFDDWAAVLFDQALLAEGGTLDDPATFVKRINQLMMAMGGSAGTD |
| 4704 | sp|B1IZC1|HTPG\_ECOLC | MKGQETRGFQSEVKQLLHLMIHSLYSNKEIFLRELISNASDAADKLRFRALSNPDLYEGDGELRVRVSFDKDKRTLTISDNGVGMTRDEVIDHLGTIAKSGTKSFLESLGSDQAKDSQLIGQFGVGFYSAFIVADKVTVRTRAAGEKPENGVFWESAGEGEYTVADITKEDRGTEITLHLREGEDEFLDDWRVRSIISKYSDHIALPVEIEKREEKDGETVISWEKINKAQALWTRNKSEITDEEYKEFYKHIAHDFNDPLTWSHNRVEGKQEYTSLLYIPSQAPWDMWNRDHKHGLKLYVQRVFIMDDAEQFMPNYLRFVRGLIDSSDLPLNVSREILQDSTVTRNLRNALTKRVLQMLEKLAKDDAEKYQTFWQQFGLVLKEGPAEDFANQEAIAKLLRFASTHTDSSAQTVSLEDYVSRMKEGQEKIYYITADSYAAAKSSPHLELLRKKGIEVLLLSDRIDEWMMNYLTEFDGKPFQSVSKVDESLEKLADEVDESAKEAEKALTPFIDRVKALLGERVKDVRLTHRLTDTPAIVSTDADEMSTQMAKLFAAAGQKVPEVKYIFELNPDHVLVKRAADTEDEAKFSEWVELLLDQALLAERGTLEDPNLFIRRMNQLLVS |
| 4705 | sp|A4SEX9|HTPG\_CHLPM | MSKKTNAPVQEFEYKAEMKQLLDLIVHSLYTHPEIFLRELVSNAADALSKARFSSLTDGGLMAAAGEDAIHITLDKEKLLFVIEDSGIGMSEDELIANLGTVAKSGTLGFMQSLQEQKKELDGNLIGQFGVGFYSVFMVTENVTVETRSAQEGSEGLRWQSSGQGTYTIEKVEKKERGTRISFTLKEEYKEFAEEYRVEQVIKKYSNFVDFPIYLGEKQLNSVTALWQRPKSELQEGDVHEFYKFISNDFEDPLDYLSVSVEGAVSFKALLFLPQNAPMELLYRQGELENKGPQLYVKKVMIQNECRDLLPEYLRFIAGVVDTEDLSLNVSREVVQSSPVMAKIRQILTTKILGWFEELAVEQPEKFKTFYKAFGPIVKIGLNTDFTNRDKLIELLRFESTKTGEGEFVTLKEYVARMGGEQKEIYYHSGAGRAQLLANPNLEYFQSRGIEVLLLSDPVDVFVIPSIHEYDSKQLKSIEKADIDFSKEKTEGEEPVAENLLVPLLAKFREALGEDIADVVESHRLVSSPVTIVGGKDAMDSQMERMMKMMQQEMPAAKKVLEVNPRHPIIRNLSGMMIANADNPLINSAIRQLYEGALLLEGDLSSTTGFVQRMNELIEAATLSR |
| 4706 | sp|Q9LQM7|HFA1D\_ARATH | MDVSKVTTSDGGGDSMETKPSPQPQPAAILSSNAPPPFLSKTYDMVDDHNTDSIVSWSANNNSFIVWKPPEFARDLLPKNFKHNNFSSFVRQLNTYGFRKVDPDRWEFANEGFLRGQKHLLQSITRRKPAHGQGQGHQRSQHSNGQNSSVSACVEVGKFGLEEEVERLKRDKNVLMQELVRLRQQQQSTDNQLQTMVQRLQGMENRQQQLMSFLAKAVQSPHFLSQFLQQQNQQNESNRRISDTSKKRRFKRDGIVRNNDSATPDGQIVKYQPPMHEQAKAMFKQLMKMEPYKTGDDGFLLGNGTSTTEGTEMETSSNQVSGITLKEMPTASEIQSSSPIETTPENVSAASEATENCIPSPDDLTLPDFTHMLPENNSEKPPESFMEPNLGGSSPLLDPDLLIDDSLSFDIDDFPMDSDIDPVDYGLLERLLMSSPVPDNMDSTPVDNETEQEQNGWDKTKHMDNLTQQMGLLSPETLDLSRQNP |
| 4707 | sp|A6VML2|HTPG\_ACTSZ | MSNNQQTLGFQTEVKQLLQLMIHSLYSNKEIFLRELISNASDAADKLRFKALSAPELYEGDGDLKVRIRFDEKKGTLTVSDNGIGMTREQATEHLGTIAKSGTKEFLTALGQDQAKDSQLIGQFGVGFYSAFIVADKVEVRSRAAGVPAEQGVLWTSAGEGEYSVEDIEKKERGTEITLFLREDEKEFLNEWRLREIIGKYSDHIGLPVEILTKEFDEEGKESDVKWEKINKAQALWTRAKGEISDEEYQEFYKHISHDFADPLVWQHNKVEGNQEYTSLLYVPSKAPWDLFNREQKHGLKLYVQRVFIMDDAEVFMPNYLRFMRGLLDSNDLPLNVSREILQDNKTTAALRKALTKRSLQMLEKLAKDEAEKYATFWKEFGLVLKEGVGEDFANREQIAKLFRFASTHTDSSEQSVSLADYIARMKEGQKAVYYITADSYVAAKNSPHLELFNKKGIEVLLLSDRIDEWMLSYLTEFDGKPLQSITKADLDLGDLADKTEAEKEKAQDEALSGFIERVKTLLGERVKDVRLTHRLTDTPAVVSTDNDQMTTQMAKLFAMSGQPVPEVKYTFELNPDHALVKKTAALTDESAFADWVELLLEQAMLSERGTLENPTAFIKRVNTLLAG |
| 4708 | sp|A0L8B0|HTPG\_MAGMM | MSAATETEVREFQTEVSQLLDLMIHALYSNKEIFLRELISNASDANDKLRFAGLSDDSLFEGDSELTIKLEFDKEAGTFSIMDNGIGMSRDEVISNIGTIAKSGTKEFFKSLTGDQQRDAHLIGQFGVGFYSSFIVADKVTLETRKAGAGAEQGVRWISAGDGSYTLENMEKAERGTRITLHMREDEKEFLDAWRLRSIVRKFSDHVTWPVKMLEELPPAPPAKEGEEPEPPKTPEWETVNKASALWTLSKNDITEDEYKEFYKHVGHDFEDPMEWVHARMEGRMEYTLLLYIPGRAPFDLWDRDRRGGLKLFVRRVFIMDTSEELLPRYLRFVRGVIDSADLPLNVSREILQQNRQVEAIKKGLVHKVLGMLEEMLKNDPEKYATFWKEFGMVLKEGMIEDFANKERIAKLCRFSTTHDGERVPKIALADYVERMKEGQEAIYYVTGESFEACSSSPHLEIFRKKGIEVLLLSDRVDEWTVTHLTEFDGKPLQAITKGELDLSKFAGGEEEAKDEEAEKAQEEALKPITERMAKVLEGQVKEVRLSHRLTESPACLVGDAHDMSATLERLLKEAGQEVPTAKRILEINPSHALLKRLADEADEEKFGELTHVLHDQALLAEGGQLKDPSQFVKRLNKLLMG |
| 4709 | sp|Q7WC32|HTPG\_BORPA | MSQTTTNSASETLGFQAEVKQLLHLMIHSLYSNKEIFLRELVSNASDACDKLRFEAIDQPGLLDGDGELAIRVDYDKAARTITISDNGIGLSRDEAVANLGTIARSGTREFFSQLTGDKQKDAQLIGQFGVGFYSSFIVADKVTVLSRRAGLAANEAIRWESDGQGEFSIAPAEKAGRGTDVVLHLRADEDELLNGWKLREILRRYSDHISLPIRMAKEDWDAEKGEQVKGDELETVNQANALWTRNKSDITDEQYREFYKTVSHDYDDPLAWTHNRVEGRSEYTQLLYVPRHAPFDLWDRDARRGVKLYVKRVFIMDDAEQLLPSYLRFVRGVIDSADLPLNVSREILQESRDVRAIREGSAKRVLSLLEDMAENKAEDYATFWTEFGQVLKEGTGEDAANRERIARLLCFASTHDGEQAQTVSFADYVGRMKDGQDKIYYVTADTFTAAANSPHLEIFRKKGIEVLLLSDRVDEWMLSYLREFDGKSLVSVAKGGLDLAELADEEEKKRQSEVAETFKPLVERLQQALAEQVKEVRVTQRLVDSPACVVVGQNELSPHLLRMLKAAGQEAPEVKPVLEINPDHALIARIRDASDAEFGDWAALLLDQALLAEGAQIADPAAFVKRLNGLLLKA |
| 4710 | sp|P61185|HTPG\_GEOSL | MSKTVKKFETEVQQLLDLVIHSLYSNKDIFLRELISNASDAIDKVLFESHQNAAVIEGEPEGKIKLIPDKDAGTLTIRDNGVGMTLEEVEKNIGTIAHSGTKAFLANLKEQNVADHPELIGQFGVGFYASFMVADRVTLVTRRAGHDKAAGVRWESTGDGTYTVEECAKETRGTEITLHLKEEMKEYLDEWKIRSIVRKYSDYVQYPIVMDVTRTEVPKGVNGEEIEGAGTIEKTEEETLNSMKAIWTRSKSEVTEEEYEEFYKHVSHDFEKPLKTIHYSAEGTSEFKALLYLPAHKPFDLFMPERKKGVQLYVRRVFITDSCEQLLPDYLRFVKGVVDSSDLPLNVSREILQEDVQIKRIQKSLVSKILSTLSEMREKEADSYLDFYKEFGPVLKEGVHFDYANRDKLQDLLLFESTATDAGSFVSLKEYVERMPEGQEEIYFITGTSRAALEQSPHLEIFRKKGYEVLFLTDPVDEWVVQGLPEYGGKKLKAVDRGDVIPATEEEKKEQEAKREEAAKQYGDLLSFVKEKLAERVKEVRLSNRLTDSACCLVADEHGLNANMERILRAMNQTVPESKRILELNPDHPIMQVMATLFGKDKTNPRLADYCDLLYDQALLTEGSPIADPLRFTRLVAELMVADGKAAAGE |
| 4711 | sp|A8GTZ5|HTPG\_RICRS | MIQEKKKFDAEVGKILNLMIHSLYSNKEIFMRELISNASDACDKLRYLSQSNSELVAGDSNFKITVKVDKDNGQIIIRDNGIGMNKDDLIENLGTIARSGTANFLKSLSGDSKKDNMLIGQFGVGFYSSFMVADKVTVTSRKAGEDKVHIWESDGLGEYTVSDSDKEFTRGTEIILHIKKEEDTFLDHFRLKHIVKSYSDHIAVPIYFFDEAGNNEIQLNSASALWTRPKSEITEEQYKEFYKSLSYAIDDPWITMHNKNEGAIEFTNLLFIPSSKTFDLFHPDRKRRVKLYIKRVFISDENIDLIPSYLRFLRGVVDSEDLPLNISRESLQHNSVLEKIKNAITKRVLGELRKKKEESPEEYNKFWANFGGALKEGLCEATTNHEKLLEVCIFRSALHNKMISLDEYIANFKEGQSTIYYLSGDNPDKLLSSPQIEGLLSKKIDVLLFTDTVDDFWVNVNSKYKEHAIKSATRSDIDVEQTTSQSEAKNTDSKKSDDEYKLLTDYFKETLGELVKEVKISKKLTSSPACLAVSDAAMDIRMERFLIEQKQIANASAKNLELNPKNKIIEKIFNDLKANNKNNEELVNLIFDQACILEGEPVADTGAFSKRLNDIVQKAIL |
| 4712 | sp|B7NU74|HSLU\_ECO7I | MSEMTPREIVSELDKHIIGQDNAKRSVAIALRNRWRRMQLNEELRHEVTPKNILMIGPTGVGKTEIARRLAKLANAPFIKVEATKFTEVGYVGKEVDSIIRDLTDAAVKMVRVQAIEKNRYRAEELAEERILDVLIPPAKNNWGQTEQQQEPSAARQAFRKKLREGQLDDKEIEIDLAAAPMGVEIMAPPGMEEMTSQLQSMFQNLGGQKQKARKLKIKDAMKLLIEEEAAKLVNPEELKQDAIDAVEQHGIVFIDEIDKICKRGESSGPDVSREGVQRDLLPLVEGCTVSTKHGMVKTDHILFIASGAFQIAKPSDLIPELQGRLPIRVELQALTTSDFERILTEPNASITVQYKALMATEGVNIEFTDSGIKRIAEAAWQVNESTENIGARRLHTVLERLMEEISYDASDLSGQTITIDADYVSKHLDALVADEDLSRFIL |
| 4713 | sp|B8FRG8|HSLU\_DESHD | MEQLTPRETVRELDRYIVGQNQAKRAVAIALRNRYRRSLLPEGMQEEVLPKNILMIGPTGVGKTEIARRLAKLVRAPFLKVEATKFTEVGYVGRDVESIVRDLVEISLRMVKAEKMEEVEIQAAQAAEKRLEALLVPGKRQENNSSNPFQFLFNQGQEKEETVTPEIERDRTFIRERLHRGELDEQVIEVEVEDNQPLLPDFLGTGMEINTNLQDMMAGMLPKKRHKRKVTVREARRILTTEEAQKLIDHDEAVQEAIRRVEQEGMVFLDEIDKIAGRDGASGPDVSRGGVQRDILPIVEGSTINTKYGPVKTDHILFIAAGAFHVAKPSDLIPELQGRFPIRVELESLSIEDFQRILTEPQSSLIKQYSALLETEGIKVEFTENAIDELAKVAYEVNSNTENIGARRLHTIVERVLEELSFEASELPEDYTVTINREYIQHRLGNIVRNQDLSRYIL |
| 4714 | sp|Q48PI5|HSLU\_PSE14 | MSMTPREIVHELNRHIIGQDDAKRAVAIALRNRWRRMQLHEELRVEVTPKNILMIGPTGVGKTEIARRLAKLANAPFIKVEATKFTEVGYVGRDVESIIRDLADAAIKLLREQEIIKVRHRAEDAAEDRILDALLPPARVGFNEDPAQSNDSNTRQLFRKRLREGQLDDKEIEIEINEAVGVDISAPPGMEEMTNQLQSLFANMGKGKTKSRKLKVKDALKLVREEEAGRLVNDEELKAKALEAVEQHGIVFIDEIDKVAKRGNSGGVDVSREGVQRDLLPLIEGCTVNTKLGMVKTDHILFIASGAFHLSKPSDLVPELQGRLPIRVELKALSPQDFERILSEPHASLTEQYRELLKTEGLKIEFKPEGIKRLAEIAWQVNEKTENIGARRLHTLLERLLEEVSFSAGDLAISPDAAPIEIDAEYVNSHLGDLAENEDLSRYIL |
| 4715 | sp|A5WA35|HSLU\_PSEP1 | MSMTPREIVHELNRHIIGQDDAKRAVAIALRNRWRRMQLPAELRAEVTPKNILMIGPTGVGKTEIARRLAKLANAPFLKVEATKFTEVGYVGRDVESIIRDLADAALKMLREQEIIRVRHRAEDAAEDRILDALLPQARVTSFSEEAAQTSSDSNTRQLFRKRLREGQLDDKEIEIEVADAVGVEIAAPPGMEEMTNQLQSLFANMGKGKRKARKLKVKEALKMVRDEEASRLVNEEELKAKALEAVEQHGIVFIDEIDKVAKRGNVGGADVSREGVQRDLLPLIEGCTVNTKLGMVKTDHILFIASGAFHLSKPSDLVPELQGRLPIRVELKALTPEDFERILQEPHASLTEQYQALLKTEGLNIEFLADGIKRLAEIAYQVNEKTENIGARRLHTLLERLLEEVSFSAGDLASTHDEAPIQIDAAYVNSHLGELAQNEDLSRYIL |
| 4716 | sp|P32590|HSP79\_YEAST | MSTPFGLDLGNNNSVLAVARNRGIDVVVNEVSNRSTPSLVGFGPRNRYLGESGKTKQTSNVKNTVENLKRIIGLKFKDPEFDIENKFFTSKLVQLKNGKVGVEVEFGGKTHVFSATQLTAMFIDKVKHTVQEETKSSITDVCLAVPVWYSEEQRYNIADAARIAGLNPVRIVNDVTAAAVSYGVFKNDLPGPEEKPRIIGLVDIGHSTYTCSIMAFRKGEMKVLGTAYDKHFGGRDFDRAITEHFADQFKDKYKIDIRKNPKAYNRILIAAEKLKKVLSANTTAPFSVESVMDDIDVSSQLSREELEELVEPLLKRVTYPITNALAQAKLTVNDIDFVEIIGGTTRIPVLKKSISDVFGKPLSSTLNQDEAVAKGAAFICAIHSPTLRVRPFKFEDIDPYSVSYTWDKQVDDEDRLEVFPANSSYPSTKLITLHRTGDFSMKAVYTHPSKLPKGTSTTIAKWSFTGVKVPKDQDFIPVKVKLRCDPSGLHIIENAYTTEDITVQEPVPLPEDAPEDAEPQFKEVTKTIKKDVLGMTAKTFALNPVELNDLIEKENELRNQDKLVAETEDRKNALEEYIYTLRAKLDDEYSDFASDAEKEKLKNMLATTENWLYGDGDDSTKAKYIAKYEELASLGNIIRGRYLAKEEEKRQALRANQETSKMNDIAEKLAEQRRARAASDDSDDNNDENMDLD |
| 4717 | sp|Q5PIR9|HSLU\_SALPA | MSEMTPREIVSELNKHIIGQDNAKRSVAIALRNRWRRMQLDEELRHEVTPKNILMIGPTGVGKTEIARRLAKLANAPFIKVEATKFTEVGYVGKEVDSIIRDLTDAAVKMVRVQAIEKNRYRAEELAEERILDVLIPPAKNNWGQAEQQQEPSAARQTFRKKLREGQLDDKEIEINLAAAPMGVEIMAPPGMEEMTSQLQSMFQNLGGQKQKPRKLKIKDAMKLLVEEEAAKLVNPEELKQDAIDAVEQHGIVFIDEIDKICKRGETSGPDVSREGVQRDLLPLVEGCTVSTKHGMVKTDHILFIASGAFQVAKPSDLIPELQGRLPIRVELQALTTSDFERILTEPNASVTVQYKALMATEGVNIEFTDSGIKRIAEAAWQVNETTENIGARRLHTVLERLMEEISYNASDLHGQNITIDAEYVSKHLDALVADEDLSRFIL |
| 4718 | sp|B8D9B1|HTPX\_BUCA5 | MTRIVLFLLTNLAVMLIFSLILFLTGIQSNTIYGLLIMSGLFGFSGSILSLILSKWIALRSVNGEIITHPRNEVESWLINTVRQQSIQKGIIMPQIAVYHATDINAFATGARRNSALIAVSTGLLENMTHHEAEAVIAHEISHIANGDMITMTLVQGVVNTFVIFISRFLSQIISNVMSSNRNENNTEEKNSFVYFLVSTFLELIFGILASIITMWFSRHREFYADASSAKMVGREKMIAALNRLKTSHEPQESDSMIAFCINGKSKSFLKLFASHPSLENRIEALYNQEYM |
| 4719 | sp|Q9QZ57|HSPB3\_MOUSE | MAKIILRHLIETPVRYQEEFEARGLEDCRLDHTLYALPGPTIEDLSKARGAGTPQALAEDSASTEKPPGEGKSRFQILLDVVQFLPEDIIIQTFEGWLLIKAQHGTRMDEHGFISRSFTRQYKLPDGVETKDLSAILCHDGILVVEVKDSLGTK |
| 4720 | sp|B0KM26|HSLU\_PSEPG | MSMTPREIVHELNRHIIGQDDAKRAVAIALRNRWRRMQLPAELRAEVTPKNILMIGPTGVGKTEIARRLAKLANAPFLKVEATKFTEVGYVGRDVESIIRDLADAALKMLREQEIIRVRHRAEDAAEDRILDALLPQARVTSFSEEAAQTSSDSNTRQLFRKRLREGQLDDKEIEIEVADAVGVEIAAPPGMEEMTNQLQSLFANMGKGKRKARKLKVKEALKMVRDEEASRLVNEEELKAKALEAVEQHGIVFIDEIDKVAKRGNVGGADVSREGVQRDLLPLIEGCTVNTKLGMVKTDHILFIASGAFHLSKPSDLVPELQGRLPIRVELKALTPEDFERILQEPHASLTEQYQALLKTEGLNIAFQADGIKRLAEIAYQVNEKTENIGARRLHTLLERLLEEVSFSAGDLASTHDEAPIQIDAAYVNSHLGELAQNEDLSRYIL |
| 4721 | sp|P34930|HS71A\_PIG | MAKSVAIGIDLGTTYSCVGVFQHGKVEIIANDQGNRTTPSSVAFTDTERLIGDAAKNQVALNPQNTVFDAKRLIGRKFGDPVVQGDMKHWPFRVINDGDKPKVQVSYKGETKGFYPEEISSMVLTKMKEIAEGYLGHPVSNAVITVPAYFNDSQRQATKDAGVIAGLNVLRIINEPTAAAIAYGLDRTGKGERNVLIFDLGGGTFDVSILTIDDGIFEVKATAGDTHLGGEDFDNRLVNHFVEEFKRKHKKDYSQNKRAVRRLRTACERAKRTLSSSTQASLEIDSLFEGIDFYTSITRARFEELCSDLFRSTLEPVEKALRDAKLDKAQIHDLVLVGGSTRIPKVQKLLQDFFNGRDLNKSINPDEAVAYGAAVQAAILMGDKSENVQDLLLLDVAPLSLGLETAGGVMTALIKRNSTIPTKQTQIFTTYSDNQPGVLIQVYEGERAMTRDNNLLGRFELSGIPPAPRGVPQIEVTFDIDANGILNVTATDKSTGKANKITITNDKGRLSKEEIERMVQEAEKYKAEDEIQRERVGAKNALESYAFNMKSVVEDEGLKGKISEADKKKVLDKCQEVISWLDANTLAEKDEFEHKRKELEQVCNPIISGLYQGAGGPGPGGFGAPDLKGGSGSGPTIEEVD |
| 4722 | sp|Q8SS62|HSF\_ENCCU | MERSSTSFNFDKIPKFIMKLYKATNNEKYKGICWTPDGLKIHIYDRDVFVKETLPLISKTREFGTFVRMLNSYGFVKSKDIEEEDIYYNKNFRKGREDLLGFDDSLRMIKRKKSSDIRMRIGDGSLKEIVEYLYVQNQELYTELSVCKERIERQERALNGLIEILSRVFRTNSQDLGARIKPSGHNPHNEMDFFLGELSGPLKEGCEPASPPLQDKGIPELSFKPGGIPHADSDTKDDNYDPFF |
| 4723 | sp|A9BID3|HSLU\_PETMO | MNKIDELTPKKVVEKLDNYIIGQKEAKKQVAIALRNRIRRLSLSEDVRKDVIPKNILMIGSTGVGKTEIARRLAEVANAPFVKVEATRFTEVGYVGKNVESMVRELVDSSVNMVKKEMMEEVKDKAQRLVEERIVEVLVPSKKRAKAQPSFMDVMQLFNQNAEYSQNKDYDENEDENIRRRREELLEKLRNGELEDVEIEVEVEEQSSPMFAGLGPELEDMGIQFGEMFQNLMPKKKKRRRMKISEARKVLEPIESEKLIDQDKLIQEGVSRAENSGIIFIDEIDKITSKGVSSGPDVSREGVQRDLLPIVEGTTVMTKYGSISTDYILFIAAGAFSEAKPSDLIPELQGRFPIRAELSDLTKEDFIRILTQPKNAILKQYQYLLQTDGVKIEFTEDGVERMADIAFELNEKVENIGARRLYTVVEKVLEEVSFEAPASGEWELKIDSNYVDLRLGKVYGDEDLREYIL |
| 4724 | sp|Q57733|HSPS\_METJA | MFGRDPFDSLFERMFKEFFATPMTGTTMIQSSTGIQISGKGFMPISIIEGDQHIKVIAWLPGVNKEDIILNAVGDTLEIRAKRSPLMITESERIIYSEIPEEEEIYRTIKLPATVKEENASAKFENGVLSVILPKAESSIKKGINIE |
| 4725 | sp|B2IA20|HSLU\_XYLF2 | MPSKTDFTSSTMTPREIVQELDRHIVGQQAAKRSVAIALRNRWRRMQLPEELRNEVMPKNILMIGPTGVGKTEIARRLATLANAPFVKVEATRFTEVGYVGKDVEQIGRDLVDTAVKMYREQAKVRVRTQAEEYAEERILDALLPRRSVGIGFDADADAIRQEPSAHESETRAKFRRMLRSGELEEREIELDVAVNVSMDIMTPPGMEEMGQQLRQMFSNIGGGKSQKRKLAIKAARPLLIEEEAAKLVNEDEIRAAAIEACEQNGIVFIDEIDKVVKRGDTVGGGDVSREGVQRDLLPLVEGSNVSTKYGTIRTNHILFIASGAFHLTKPSDLIPELQGRFPIRVELDALSKADFIRILTEPKAALTKQYQELLKTEGVSLDFTEDAIDRIAEIAYLVNERQENIGARRLHTVLERLLETLSYESPDRDGESVTVDADYVNAHLGELVKDPDLSRYIL |
| 4726 | sp|Q17XG1|HSLV\_HELAH | MFEATTILGYRGEFNNKKFALIGGDGQVTLGNCVVKANATKIRSLYHNQVLSGFAGSTADAFSLFDMFERILESKKGDLFKSVVDFSKEWRKDKYLRRLEAMMIVLNLDHIFILSGTGDVLEAEDNKIAAIGSGGNYALSAARALDCFAHLEPKKLVEESLKIAGDLCIYTNTNIKILEL |
| 4727 | sp|B9JG70|HSLV\_AGRRK | MTTIVTIRKGGKVVMAGDGQVSLGQTVMKGNARKVRRIGKGDVIAGFAGATADAFTLLERLEKKLEQYPGQLMRAAVELAKDWRTDKYLRNLEAMMLVADKSVTLAITGNGDVLEPEHGALAIGSGGNYALAAARALMDTDKSAEDVARRALDIAADICVYTNHNVVIETLDAEA |
| 4728 | sp|P27741|HSP83\_LEIAM | MTETFAFQAEINQLMSLIINTFYSNKEIFLRDVISNASDACDKIRYQSLTDPSVLGDATRLCVRVVPDKENKTLTVEDNGIGMTKADLVNNLGTIARSGTKAFMEALEAGADMSMIGQFGVGFYSAYLVADRVTVTSKNNSDEVYVWESSAGGTFTITSAPESDMKLPARITLHLKEDQLEYLEARRLKELIKKHSEFIGYDIELMVEKTTEKEVTDEDEEEAKKADEDGEEPKVEEVTEGEEGKKKKTKKVKEVTKEYEVQNKHKPLWTRDPKDVTKEEYAAFYKAISNDWEDPPATKHFSVEGQLEFRAIMFVPKRAPFDMLEPNKKRNNIKLYVRRVFIMDNCEDLCPDWLGFVKGVVDSEDLPLNISRENLQQNKILKVIRKNIVKKCLEMFEEVAENKEDYKQFYEQFGKNIKLGIHEDTANRKKLMELLRFYSTESGEVMTTLKDYVTRMKAEQNSIYYITGDSKKKLESSPFIEQAKRRGFEVLFMTEPYDEYVMQQVKDFEDKKFACLTKEGVHFEESEEEKRQREEEKATCEKLCKTMKEVLGDKVEKVTVSERLSTSPCILVTSEFGWSAHMEQMMRNQALRDSSMAQYMMSKKTMELNPKHPIIKELRRRVEADENDKAVKDLVFLLFDTSLLTSGFQLEDPTYAERINRMIKLGLSLDEEEEEEAVEAAVAETAPAEVTAGTSSMELVD |
| 4729 | sp|Q7MMR7|HTPG\_VIBVY | MNETVANNKETRGFQSEVKQLLHLMIHSLYSNKEIFLRELISNASDAADKLRFQALSNPALYENDAELGVKLSFNEEHNTLTISDNGIGMSREEVISHLGTIAKSGTAEFFSKLSQEQSKDSQLIGQFGVGFYSAFIVADAVTVRTRAAGLNADQAVLWHSAGEGEYTVEDITKESRGTDIILHMREDGKEFLNEWRLRDVIGKYSDHIGIPVSIQTRVRDEEGKETEEVKWEQINKAQALWTRNKSDISDEEYQEFYKHVSHDFADPLLWSHNRVEGKNDYTSLLYIPSKAPWDMMNRDHKSGLKLYVQRVFIMDDAEQFMPSYLRFVRGLIDSNDLPLNVSREILQDNKVTQSLRGACTKRVLTMLERLAKNDTEKYQTFWKEFGLVMKEGPAEDYANREKVAALLRFASTEVDSAEQTVSLESYVERMKEGQDKIYYLTADSYAAAKNSPHLEQFKAKGLEVILMFDRIDEWLMNYLTEFDGKQFQSITKAGLDLSQFEDEQEKEKQKETEQEFQSVVERTKSYLGDRVKEVRTTFKLANTPAVVVTDDFEMGTQMAKLLAAAGQAVPEVKYIFEINPNHTLVKQMADEADEEAFGRWVEVLLGQAMLAERGSMEDPSQFLTAINSLLTKG |
| 4730 | sp|P38532|HSF1\_MOUSE | MDLAVGPGAAGPSNVPAFLTKLWTLVSDPDTDALICWSPSGNSFHVFDQGQFAKEVLPKYFKHNNMASFVRQLNMYGFRKVVHIEQGGLVKPERDDTEFQHPCFLRGQEQLLENIKRKVTSVSTLKSEDIKIRQDSVTRLLTDVQLMKGKQECMDSKLLAMKHENEALWREVASLRQKHAQQQKVVNKLIQFLISLVQSNRILGVKRKIPLMLSDSNSAHSVPKYGRQYSLEHVHGPGPYSAPSPAYSSSSLYSSDAVTSSGPIISDITELAPTSPLASPGRSIDERPLSSSTLVRVKQEPPSPPHSPRVLEASPGRPSSMDTPLSPTAFIDSILRESEPTPAASNTAPMDTTGAQAPALPTPSTPEKCLSVACLDKNELSDHLDAMDSNLDNLQTMLTSHGFSVDTSALLDLFSPSVTMPDMSLPDLDSSLASIQELLSPQEPPRPIEAENSNPDSGKQLVHYTAQPLFLLDPDAVDTGSSELPVLFELGESSYFSEGDDYTDDPTISLLTGTEPHKAKDPTVS |
| 4731 | sp|C4L427|HRCA\_EXISA | MLTDRQLLILRAIIDDYIQTAQPVGSRTLSKRDDLTFSSATIRNDMADLEDMGLIEKPHTSAGRIPSEVGYRYYVDHLVEKQIIDERETGRLEERLKQSSKESEILIRQAADLLSDLTNYTTVALGPNSQMETLARVDFMPLDERRGVVLIVTDQGHVEHRTVMFESRVAPDVIEETIRLLNDRLVGTPIGQLKIRIGEEVAKLQLAQRQQYENMMQLIQSTVGIQTPSSLYLGGKKKIFNQPEFQTLDTLRPFLEWIDEQERLTHWLESLPNREIYVSIGSENGIVALQNCSVITSDYTLDGKTFGTIAMIGPTRMNYRHGVQMMGQIIEALRRTKLDE |
| 4732 | sp|B7M1V3|HSLO\_ECO8A | MPQHDQLHRYLFENFAVRGELVTVSETLQQILENHDYPQPVKNVLAELLVATSLLTATLKFDGDITVQLQGDGPMNLAVINGNNNQQMRGVARVQGEIPENADLKTLVGNGYVVITITPSEGERYQGVVGLEGDTLAACLEDYFMRSEQLPTRLFIRTGDVDGKPAAGGMLLQVMPAQNAQQDDFDHLATLTETIKTEELLTLPANEVLWRLYHEEEVTVYDPQDVEFKCTCSRERCADALKTLPDEEVDSILAEDGEIDMHCDYCGNHYLFNAMDIAEIRNNASPADPQVH |
| 4733 | sp|C1KVC2|HRCA\_LISMC | MLTERQLLIFRAIIDHFTWTIQPVGSKNLLKEKGLPYSSATIRNEMGVLEEYGFIEKTHSSSGRVPSEKGYRFYVDYLLQPKKLDKSDRQMIRSFFSENYYEMEGLIQNSALMLSDLTNYTSILLGPEATKNHLSGFRFVPINNFQAMLILITDQGHVDNHLVTIPEGTTLSDIERMVNILNERLVGLSLDDLKVQIPMEVKELLGKHVRNYESFMHVFSDSFAQASQQKVYFGGKTNILNQPEFHDINKVREMLHLMEEEQDVYELFRDIPDGLQVKIGRENNNSLMEDCSIITATYNIAGERVGGIVLLGPTRMEYSRMMGLVDVMSRDLTDVLTKLYRDNQN |
| 4734 | sp|B8GYL6|HSLO\_CAUVN | MTDIAPDTGVLDDVVSAFQIENLPVRGRVVRLGAAIDEVLTRHDYPEPVANLLGEACALAALVGSSLKFEGRLIVQAQGDGPVRYVVVDYDTSGGLRGYCRFDPEEVAAVSEGFVRPGAKTLLGGGVFIMTLDQGPDMDRYQGVTPIEGETLALCAEQYFAQSEQTPTRVRLAVGQADTGQGATWRAGGILIQVIAGDQARGETQDAWTHVQALFETTGEDELIDPTVSTPTLLWRLFNEDGVRLLDEKPLKAFCRCSEDRIGVVMDSFSAEEVAEMVEPDGKIHVTCEYCSRIYKLDPPGA |
| 4735 | sp|Q9D6H2|IFT25\_MOUSE | MRKVDLCSVTEGTEVILATSSDEKHPPENIIDGNPETFWTTTGMFPQEFIICFHKHVKIEKLVIQSYLVRTLRIEKTTSKEPLDFEQWVEKDLVHTEGQLQNEEIVARDGYATFLRFIIVSAFDHFASVHSISAEGLTVSSLP |
| 4736 | sp|P31169|KIN2\_ARATH | MSETNKNAFQAGQAAGKAEEKSNVLLDKAKDAAAAAGASAQQAGKSISDAAVGGVNFVKDKTGLNK |
| 4737 | sp|O65162|CAMT\_MESCR | MATTNVEENKQTQEQQPKEIKHQEVGHKSLLQSDALFQYILETSVYPREPEPMKELRDITAKHPWNLMTTSADEGQFLNMLLKLINAKNTIEIGVYTGYSLLASALALPDDGKILAMDINRENYELGLPVIQKAGVAHKIDFREGPALPVLDLLIEDAKNHGSFDFAFVDADKDNYGNYHKRLIDLVKIGGVIGYDNTLWNGSVAAPADAPMRKYVRYYRDFVMEFNKAIAADPRVEICQLPVGDGITLCRRIS |
| 4738 | sp|Q89AF9|DEAD\_BUCBP | MTHTNMTFSSFGLNSCIITALNDIGYVQPSPIQAACIPYLIKGKDVLGMAQTGSGKTAAFALPLLHNIKLDVRVPQILVLTPTRELAVQVAEAFSNFSKKLIGVHVLALYGGQRYDLQLKSLRKGPQIIVGTPGRLLDHLKRRTLSLSNLHSLVLDEADEMLRMGFIEDVETIMTEIPDRHQTALFSATMPEAIRRISRRFMKNPKEIRIQSNITTRPDIQQSYWMVYGKKTDALIRFLEAEDFSATIIFVRTKNATLEVSEVLERYGYNSAALNGDMNQSLREQTLEKLKDGRLDILIATDVAARGLDVDRISFVINYDIPMDSESYVHRIGRTGRAGRKGKALLFVENRERRLLRNIERAMNISISEVNLPKSDFLSKRRLEKFAQKVQIQLDSKDLHEYRGLLPKLQPNNNSLDIESLAAALLKMAQGERSLIVKPESIVRARHLKIKDTYRNNNYKSLNYVSRYNRDKNVDLYRIDVGRNDGVEVRHIVGAIANEGDISSRKIGNVRLFSNYSTIELPKGLSNTLPKTFIRTKILNKFINIKLLYNSNFKGNYNDIKDVKVYNSNKLRSKKMNNKKFVSSGVRKKIKTNISCNRRRSV |
| 4739 | sp|B1ZUS0|DNAJ\_OPITP | MAKDDYYELLGVQKGASEEELKKAYRKKAVQYHPDKNPGNKEAEEMFKKISHAYEVLKDPEKRAAYDRYGPAAFEGAGAGAGMGGMRGGGGFHDPFDIFREVFGQQGGMGGGIFEEMFGGGRGGGGQDGADLRYDLEITLEEAARGAEKEISFRKLVACERCDGSGAEPGSKRVTCPTCRGAGQVRRSGGIITFTQTCPTCGGMGTKIEKPCTVCHGEGRVRRTTKLNVRIPPGVDNGSRLRSSGNGEAGVAGGQNGDLYIVISVQEHELFERQGDDLFCEIPIKFTLATLGGTIEVPTLFGKASLKIPVGTQSGTTFRLRDKGMPSLRGGRQGDQLVRVHVEVPQSLTPEQRKILEDFARVSGDASEPTSRSFFEKAKKFF |
| 4740 | sp|Q661A3|DNAK\_BORBP | MGKIIGIDLGTTNSCVAIMEHGKPVVIQNSEGGRTTPSIVAYTNKGERLVGQVAKNQMVTNPENTIYSIKRFMGRRFEEVASEIKMVPYKIEKGLNGDARVNISNIKKQMSPPEISAATLTKMKETAEAYLGEKVTEAVITVPAYFNDAQRQATKDAGKIAGLEVKRIVNEPTAAALAYGIEKKHEEIVAVYDLGGGTFDISILELGDGVFEVKSTNGDTHLGGDNFDDEIIKHLISEFKKESAIDLSNDKMALQRLKEAAEKAKIELSGAQEASINLPFITADANGPKHLQYTLTRAKFEQMVDHLVQKTKEPCLKAIKDAGLKASDINEVILVGGSTRIPAIQKIVKDIFGQDPNKGVNPDEAVAIGAAIQGGILTGETKDMVLLDVTPLSLGIETLGGVMTKLIERNTTIPTKKSQVFSTAADNQTSVDIKVLQGEREMAAQNRILGNFILDGIPAAPRGVPQIEVSFDIDANGIVHVSAKDMGTGKEQKIRIESSSGLSESEIDRMVKDAEAHAEEDKKLKENIEAKNTANSLIYQTEKSLKEYSEKISSEDKEAIENKIKELKESLDKEDISLIKSRTEELQKASYKIAEMMYKDSSQQNASNQQENGTQSNTSEEGKEADYEVVDEDKK |
| 4741 | sp|A4XKA4|DNAK\_CALS8 | MAHILGIDLGTTNSCMAVIEGGQPVVIPNAEGFRTTPSVVAFTKTGERLVGHAAKRQAITNPERTIISIKRDMGTNRRIKIDDKEYSPEEISAMILMKLKADAEAYLGEKITQAVITVPAYFTDSQRQATKNAGRIAGLEVLRIINEPTAAALAYGLDKEGHQKIMVYDLGGGTFDVSILEIGEGVIEVLATSGNNRLGGDDFDQRIIDYIADEFMKEHGIDLRKDKVALQRLKDAAERAKIELSSALQTTINLPFITADANGPKHIDMVLTRAKFEELIKDLVEKTREPVETALSDAKLTPEQIDKVILVGGSTRIPYVQEFVKKLTGKEPFKGINPDECVAIGAAIQAGVLGGQVKDILLLDVTPLSLGIETLGGVFTKIIERNTTIPTRKSQIFTTAADGQTQVEIHVLQGERPLAKDNKTLGRFILDGIPPAPRGVPQIEVTFDIDANGIVHVSAKDLGTGREQKITITSQTHLSEEEIQRAIKEAEMYAEQDRKRKELIETRNKADSIIYQTEKLLRDLGDKMTATEKEQIEAKLKALKDVMNGEDKERIERAIDELTKSFYDVSTRLYQQGYTQAGPQGGTNPGGQGGTDGNVNTDYKVY |
| 4742 | sp|A4WW89|DNAK\_RHOS5 | MAKVIGIDLGTTNSCVAIMDGAQPRVIENSEGARTTPSIVGFTDSERLVGQPAKRQAVTNPSNTVFAVKRLIGRRVGDAEVEKDKKLVPYAIVNGGNGDAWVEVRGEKYSPSQISAFILQKMKETAEAYLGESVTQAVITVPAYFNDAQRQATKDAGKIAGLEVLRIINEPTAAALAYGLDKKDTKTIAVYDLGGGTFDITILEIDDGLFEVKSTNGDTFLGGEDFDMRIVNYLADEFKKEHGVDLTLDKMALQRLKEAAEKAKIELSSSQQTEINQPFISMDRNTGQPLHMVMKLTRAKLESLVADLIKKSLKPCEAALKDAGVSKSDIDEVVLVGGMTRMPRVVEEVTKFFGKEPHKGVNPDEVVALGAAIQAGVLQGDVKDVVLLDVTPLSLGIETLGGVFTRLIDRNTTIPTKKSQVFSTAEDNQNAVTIRVFQGEREMAADNKMLGQFNLEDIPPAPRGMPQIEVTFDIDANGIVSVSAKDKGTGKSQNITIQASGGLSDEDIEKMVRDAEANAEADKKRRELVETKNQGESLLHSTRKSIEEHGDKVDPSTVEAIELAMGALEESLKTEDAGKIKGGIQNLTEAAMRLGEAIYKASQSETGAAPDEDGPRSVDDDIVDADFEDLGENKRK |
| 4743 | sp|B1VHX4|DNAK\_CORU7 | MGRAVGIDLGTTNSVVSVLEGGEATVIANSEGARTTPSVVAFAKNGEVLVGQSAKNQAVTNVDRTISSVKRHIGNDSWNVEIDDKKYTAQEISARTLMKLKRDAESYLGEDVTDAVITVPAYFNDSQRQATKDAGQIAGLNVLRIVNEPTAAALAYGLEKGDKEQTILVFDLGGGTFDVSLLEIGDGVVEVRATSGDNKLGGDDWDQAIVDWLVEKFKNANGIDLTKDKMALQRLREAAEKAKIELSSSQQASINLPYITVDGDKNPLFLDETLSRTEFQRITQDLLDRTKKPFQAVLKDADVDINEIEHVVLVGGSTRMPAVTDLVKELTGGKEPNKGVNPDEVVAVGAALQAGVLRGEVKDVLLLDVTPLSLGIETKGGVMTKLIERNTTIPTKRSETFTTAEDNQPSVQIQVFQGEREMAQHNKLLGSFELGGIAPAPRGVPQIEVTFDIDANGIVHVTAKDKGTGKENTIKIQDGSGLSQDEIDQMIKDAEAHAEEDKKRREEQEVRNSAESTVYQTRKFVEDNKDKVSEDIQNKVEEAAKAVDEALKGEDIEAIKDAMEKLSAESQEMGKAIYESEAAQAGEAGGAEDAGSEDPNVVDAEVVDEDDSEDEKK |
| 4744 | sp|P40170|DNAJ1\_STRCO | MSTKDFIEKDYYKVLGVPKDATEAEIKKAYRKLARENHPDANKGNVKAEERFKEISEANDILGDPKKRKEYDEARALFGNGGFRPGPGAGGGGTFNFDLGDLFGGGAQGGGGQGGAGGFGGGLGDVFGGLFNRTGGGPGTGTRTQPRRGQDIESEVTLSFTEAIEGATVPLRMSSQAPCKACSGTGDKNGTPRVCPTCVGTGQVARGSGGGFSLTDPCPDCKGRGLIAEDPCEVCKGSGRAKSSRTMQVRIPAGVSDGQRIRLRGKGTPGERGGPAGDLYVVVHVKEHPVFGRRGDNLTVTVPVTYAEAALGGEVRVPTLGGPSVTLKLPAGTPNGRTMRARGKGAVRKDGTRGDLLVTVEVSVPKDLTGKARDALQAYREATADEDPRAELFQAAKGA |
| 4745 | sp|Q5W6R4|DRE2B\_ORYSJ | MTVDQRTTAKAIMPPVEMPPVQPGRKKRPRRSRDGPTSVAETIKRWAELNNQQELDPQGPKKARKAPAKGSKKGCMKGKGGPENTRCDFRGVRQRTWGKWVAEIREPNQQSRLWLGTFPTAEAAACAYDEAARAMYGPMARTNFGQHHAPAASVQVALAAVKCALPGGGLTASKSRTSTQGASADVQDVLTGGLSACESTTTTINNQSDVVSTLHKPEEVSEISSPLRAPPAVLEDGSNEDKAESVTYDENIVSQQRAPPEAEASNGRGEEVFEPLEPIASLPEDQGDYCFDIDEMLRMMEADPTNEGLWKGDKDGSDAILELGQDEPFYYEGVDPGMLDNLLRSDEPAWLLADPAMFISGGFEDDSQFFEGL |
| 4746 | sp|A2XWL6|DRE1E\_ORYSI | MEWAYYGSGYSSSGTPSPVGGDGDEDSYMTVSSAPPKRRAGRTKFKETRHPVYKGVRSRNPGRWVCEVREPHGKQRIWLGTFETAEMAARAHDVAAMALRGRAACLNFADSPRRLRVPPLGAGHEEIRRAAVEAAELFRPAPGQHNAAAEAAAAVAAQATAASAELFADFPCYPMDGLEFEMQGYLDMAQGMLIEPPPLAGQSTWAEEDYDCEVNLWSY |
| 4747 | sp|P54616|FABI\_BACSU | MNFSLEGRNIVVMGVANKRSIAWGIARSLHEAGARLIFTYAGERLEKSVHELAGTLDRNDSIILPCDVTNDAEIETCFASIKEQVGVIHGIAHCIAFANKEELVGEYLNTNRDGFLLAHNISSYSLTAVVKAARPMMTEGGSIVTLTYLGGELVMPNYNVMGVAKASLDASVKYLAADLGKENIRVNSISAGPIRTLSAKGISDFNSILKDIEERAPLRRTTTPEEVGDTAAFLFSDMSRGITGENLHVDSGFHITAR |
| 4748 | sp|Q09752|FNX1\_SCHPO | MVDQVNLATEQTSLLYPEVSRKKEELSVNKWTILPALWVGGFLSALDMTIVASLYPVIGSEFKLMNNASYIVTAYLITNTAFQPLYGRLSDIFGRRPTVVFANAAFTLGTFWCGISRSLPELCMARALAGIGGGGLGTMSSIISSDIVSLRERGTWQGITNIVWGIGGSLGGPLGGLIAQRWGWRTAFHFQVPMGILSTILVAWRVRVKPTVRNSNASLLSRIDYLGSFLLVTGITALVVTFNMGGDAFPWVSPVIITLLVSSVLILFAFYWVEKNIAVEPIAPVEILSQPTPLNVCLGNFFNAFCSFVIVYELPLFFETTLLMPSSEAGVRIFPYVISTSVGSLCSGLYMKKTGRYRNLVIAGFFFMLMGIVSFAVLTSFGHRTPLILISLCLAMTGCSYGMNLTSTLIAIISSLAPEEQAVATGLSYLFRATGSVIGISLSQTTTLSILMKQLASNLKDDPDKDDLIRRLRESISIIPNLPKDIQKLVIKSYATAFTWTFALVAIIAFAGFWCSLRIKQFYLHTSVDRS |
| 4749 | sp|B9JZG5|GRPE\_AGRVS | MTDETAKNGPDAAADAQIEPQVQEETNSTAEDAGQDNNPTAALQAENAELRDRFLRLAAEMDNLRRRTERDVKDAKSYAVTAFARDMLAVSDNLRRAIDAVPAEAKEEAQAGLTALIEGVEMTERAMLSTLERHGVRKIEPEGQKFDPNFHQAMFEIPNPQVPNNTVVQVVQPGYTIGDRVLRPAMVGVAKGGPKAETAQAADA |
| 4750 | sp|Q2NK66|GRPE\_AYWBP | MFLEKEQDNLDNLKTQTKELHKDYTECQNCQKEETQTTNKDNQKEDETFKNQPNKTKQTNTKQQKHLSKESSHQQITKLQTQIKELQQKLSQQKKTFDEGLLKNQAEFINFKKRAQTQKENELKYASSNFINNLLMPLEQLEKVIDMPTQNELLQKYLLGFKLLQKQIKKVLQDEGVEEIEALNKPFDPTFHHALETVCDFEKPDKTNLAVLQKGYLYKKRILRPTLVKVNEWSDKNEKNE |
| 4751 | sp|B7J283|GRPE\_BORBZ | MEKKETKSESEKTNKQDNKNTKSQKKENLNLVNSDKKIAELENEISNLKDLYLRKQAEFENFRKRLEKEKDNFVKFANETIMKDVVNFLDNLERAINSSKKSKDFDNLLTGISMIENEILSIFDKKYNLKKFGENGENFDPSRHEAISIEEKEGLKNPEIVEVYQKGYCYNDRILRTAKVKVAQSKN |
| 4752 | sp|B7N6J9|GRPE\_ECOLU | MSSKEQKTPEGQAPEEIIMDQHEEIEAVEPEASAEQVDPRDEKIANLEAQLAEAQTRERDGILRVKAEMENLRRRTELDIEKAHKFALEKFINELLPVIDSLDRALEVADKANPDMSAMVEGIELTLKSMLDVVRKFGVEVIAETNVPLDPNVHQAIAMVESDDVAPGNVLGIMQKGYTLNGRTIRAAMVTVAKAKA |
| 4753 | sp|Q8CWT4|GRPE\_STRR6 | MAQDIKNEEVEEVQEEEVVETAEETTPEKSELDLANERADEFENKYLRAHAEMQNIQRRANEERQNLQRYRSQDLAKAILPSLDNLERALAVEGLTDDVKKGLAMVQESLIHALKEEGIEEIAADGEFDHNYHMAIQTLPGDDEHPVDTIAQVFQKGYKLHDRILRPAMVVVYN |
| 4754 | sp|A5GHN3|GRPE\_SYNPW | MSGDASTPEQDPAQVVADGQQPVETPNDPVETPSASDPGSAAEVSPQTGNNEARLEQLEREHTTLRDEHDVLRGQYMRIAADFDNFRKRQSRDQDDLKIQLTCSTLSEILPVVDNFERARQQLDPQGEEAQALHRSYQGLYKQLVDVLKQLGVAPMRVVGQEFDPTLHEAVLREPSDAHPEDVVIEELQRGYHLNGKVLRHAMVKVSMGPGPQDGASSQPAEAPAADAPAEDSGSGDGNG |
| 4755 | sp|Q9SRY5|GSTF7\_ARATH | MAGIKVFGHPASTATRRVLIALHEKNLDFEFVHIELKDGEHKKEPFIFRNPFGKVPAFEDGDFKLFESRAITQYIAHFYSDKGNQLVSLGSKDIAGIAMGIEIESHEFDPVGSKLVWEQVLKPLYGMTTDKTVVEEEEAKLAKVLDVYEHRLGESKYLASDKFTLVDLHTIPVIQYLLGTPTKKLFDERPHVSAWVADITSRPSAKKVL |
| 4756 | sp|B2FMY4|GRPE\_STRMK | MNHEQPDIESQQSAADAAATAGVNDEVERLRAEIEQVKADALRERADLENQRKRVARDIEQARKFANEKLLGDLLPVFDSLDAGLKAAGDDPHPLREGLELTYKQLLKVAADNGLVLLDPIGQPFNPEHHQAISQVPTPGAAPGSVVTVFQKGYLLNERLLRPALVVVAAD |
| 4757 | sp|B2URT9|GRPE\_HELPS | MKDKHNQEHDHLSQEEPESCEKACACKEQQGEEMQEASGKECEIKEDFELKYQEMHEKYLRVHADFENVKKRLERDKSMALEYAYEKIALDLLPVIDALLGAHRSAAEVDKESALTKGLELTMEKLHEVLARHGIEGIECLEEFDPNFHNAIMQVKSEEKENGKIVQVLQQGYKYKGRVLRPAMVSIAKND |
| 4758 | sp|Q58FF7|H90B3\_HUMAN | MPEEVHHGEEEVETFAFQAEIAQLISLIINTFYSNEEIFLQELISNASDALDKIRYESLTDPSKLDSGKELKIDIIPNPQERTLALVDTGIGMTKADLINNLRTIAKSGTKACMEALQAEKLVVITKHNDDEQYAWESSAGGSFTVHADHGEPIGRGTKVILHLKEDQTEYLEERRVKEVVKKHSQFIGYPITLYLEKEQDKEISDDEAEEEKGEKEEEDKDDEEKPKIKDVGSDEEDDSKEYGEFYKSLTSDWEDHLAVKHFSVEGQLEFRALLFSPRRAPFDLFENKKKKNNIKLYVRRVFIMDSCDELIPEYLNFIHGVVDSEDLPLNISREMLQQSKILKYVSHMKETQKSTYYITGESKEQVANSAFVERVRKQGFEVVYMTEPIDEYCVQQLKEFDGKSLVSVTKEGLELPEDEEEKKKMEESKEKFENLCKLMKEILDKKVEKVTISNRLVSSPCCIVTSTYGWTANMEQIMKAQALRDNSTMGYMMAKKHLEINPDHPIMETLRQKAEADKNDKAVKDLVVLLFETALLSSGFSLEDPQTHSNHIYHMIKLGLGTDEDEVAAEEPSDAVPDEIPPLEGDEDASRMEEVD |
| 4759 | sp|O30862|GRPE\_VIBCH | MSNEEIKNKDEQLQQDAVETEAEVVGTDADIDWNQAADEIDEKEAKIAQLEAALLVSEERVKEQQDSVLRARAEVENMRRRSEQEVDKARKFALSRFAEELLPVIDNLERAIQAADGEVEAIKPLLEGVELTHKTFVDTIAKFGLKEINPHGEVFNPEFHQAMSIQESAEHEPNTVMFVMQKGYELNGRVLRPAMVMVSK |
| 4760 | sp|Q1CFL2|GRPE\_YERPN | MSSKEQKTPNEQVSEEMENTAEQQVEATQETGECVDPRVAELEVQLSDALQRERESLLRAKAEVENIRRRTELDVEKAHKFALERFSSELLPVIDNLERALDTADKTNTELISMIEGVELTLKSLLDAVGKFGIEVVGETHVPFNPEVHQAMTMLESADHEPNHVMMVMQKGYTLNGRLLRPAMVAVSKAKS |
| 4761 | sp|B8DE37|GRPE\_LISMH | MSEKKNKKEKLADEIEQEELNILDETEETVEEEAAADTLTEEQAKILELENKLDEVENRYLRMQADFENVKKRHIADRDASQKYRSQSLAQDLLPALDSFEKALATTSDQEEVKQILKGMEMVYNQILVAFEKEGIEVIPAVGEQFDPNFHQAVMQDSDENAGSNEITAELQKGYKLKDRVIRPSMVKVNQ |
| 4762 | sp|B5Z9P1|GRPE\_HELPG | MKDEHNQKHDHLSQKEPESYQKACACKEQQDEEMQEAGEKEGEIKEDFELKYKEMHEKYLRVHADFENVKKRLERDKSMALEYAYEKIALDLLPVIDALLGAHKSAAEENKESALTKGLELTMEKLHEVLARHGIEGIECLEEFDPNFHNAIMQVKSEEKENGKIVQVLQQGYKYKGRVLRPAMVSIAKND |
| 4763 | sp|Q1MMC9|GRPE\_RHIL3 | MTDDTTKNGPDATAADAAADATAYVENETAQQEPAQPDPIELLKAENGELRDRYLRLAAEMDNLRRRTEREVKDAKSYSVAGFARDMLAVSDNLRRALDAISPETKATADAGLSTLIEGVEMTERAMLSALERHGVRKLEPVGQKFDPNFHQAMFEVPNPDVPNNTVVQVVQAGFTIGERVLRPAMVGVAKGGPKPAEAETNSVFDEKDA |
| 4764 | sp|Q9CMC6|HFQ\_PASMU | MAKGQSLQDPYLNALRRERIPVSIYLVNGIKLQGQIESFDQFVILLKNTVNQMVYKHAISTVVPARSVSHHNNSNNSNQQNYQQEQQTDSNVEKAE |
| 4765 | sp|Q8F5Z7|HFQ\_LEPIN | MSAKNNIQDQLLNTARKDKLDLTIYLLNGVPLKGKVVSFDNFTIVLEQENKQSLVYKHAISTIIPAKIIKLYTEEAKDNKDAAQG |
| 4766 | sp|A7FMX9|HFQ\_YERP3 | MAKGQSLQDPFLNALRRERVPVSIYLVNGIKLQGQVESFDQFVILLKNTVSQMVYKHAISTVVPSRPVSHHSNTPSGSTNNYHGSNPSAPQQPQQDSDDAE |
| 4767 | sp|Q2RJF9|HFQ\_MOOTA | MNKTQGNLQDLFLNVLRRDNTPVTIYLVNGFQLKGVVRGFDNFTVVLDADGKQQMIYKHAISTIMPFRPVNLMAESRAQAEAKQ |
| 4768 | sp|Q2G0M7|HCHA\_STAA8 | MSQDVNELSKQPTPDKAEDNAFFPSPYSLSQYTAPKTDFDGVEHKGAYKDGKWKVLMIAAEERYVLLENGKMFSTGNHPVEMLLPLHHLMEAGFDVDVATLSGYPVKLELWAMPTEDEAVISTYNKLKEKLKQPKKLADVIKNELGPDSDYLSVFIPGGHAAVVGISESEDVQQTLDWALDNDRFIVTLCHGPAALLSAGLNREKSPLEGYSVCVFPDSLDEGANIEIGYLPGRLKWLVADLLTKQGLKVVNDDMTGRTLKDRKLLTGDSPLASNELGKLAVNEMLNAIQNK |
| 4769 | sp|Q87F71|HFQ\_XYLFT | MAKGQSLQDPFLNALRRERVPVSVYLVNGIKLQGTIESFDQFVVLLRNTVSQMVYKHAISTVVPARNVRVGPGGGYVHSGSDTLQINDDEVE |
| 4770 | sp|Q66FB5|HFQ\_YERPS | MAKGQSLQDPFLNALRRERVPVSIYLVNGIKLQGQVESFDQFVILLKNTVSQMVYKHAISTVVPSRPVSHHSNTPSGSTNNYHGSNPSAPQQPQQDSDDAE |
| 4771 | sp|Q0HMN9|HFQ\_SHESM | MAKGQSLQDPFLNALRRERVPVSIYLVNGIKLQGQVESFDQFVILLKNTVSQMVYKHAISTVVPARPFNVAGHQNAQGGYGAQDDMPSGE |
| 4772 | sp|B4SRA5|HFQ\_STRM5 | MSKGQSLQDPFLNALRRERVPVSVYLVNGIKLQGTIESFDQFVVLLRNTVSQMVYKHAISTVVPARNVKVGPGGGYVQSGEGGQAGDEADE |
| 4773 | sp|B3H331|HFQ\_ACTP7 | MAKGQSLQDPYLNALRRERIPVSIYLVNGIKLQGQIESFDQFVILLKNTVSQMVYKHAISTVVPARSVSHNNGGTSHTQQAPAVEAVADKAE |
| 4774 | sp|B0SXF2|HFQ\_CAUSK | MSTEKKQNLQDTFLNSVRKSKTPLTIFLVNGVKLQGVVSWFDNFCVLLRRDGQSQLVYKHAISTIMPAQPVQLYEPSADQDD |
| 4775 | sp|A0KGS1|HFQ\_AERHH | MAKGQSLQDPFLNALRRERIPVSIYLVNGIKLQGQIESFDQFVILLKNTVSQMVYKHAISTVVPARAVNHHQHAPGAAGEEQGEAEA |
| 4776 | sp|B1AJ61|HRCA\_UREP2 | MKNTKTSQEQVIELKLSDRQKKVLKSIVDEYTISATPVSSKLLVQKEFKDQSSATIRNEMMFLEKNGLIEKQHISGGRVPSLKGYDFYNKNLINKNNNVSDNFKMRLHKILSKRYSNIDEILNAAVSIINETTQLPAVVTKTSSDELLKRIDLVKINDNSALVLIVTSSENILTHSIKLDKNTKFNDLQTCFSVLDERLVDTKLSLISSKLDLIVDIVRNKLEEVEYYFSKIVHRVFDFYAYKPNIDSKTYGVKYLTKHSEFEDQQKLNDLLNLLEDSTIWQQIALNKKTDGLAKIMLGNEIGHEHLAIATTQINLANTNHQITVVGPTRMDYAKIKALLDFLKIEIEKILGSTNEH |
| 4777 | sp|Q5AQ33|HSF\_CANAL | MIMNMTTDYRDPLLDLFGTESNSGNETSSPSDIPVINRSGTFNQQQFSPLLTQQSLYNTPNSGSTPNIFDPNYTQMQEEQTSPSSNKLQPEDPPRKKRNTRSQTKIHQQSEGDEYNSNDYKDSIDLDKPPVVEPSPPFFVESDTTPEFVIPTPTSEQQQQQHHELIAQDYQRSNNSNQFGNLTHYEPNLPPLPPLSESILPQTNTFHPLVLPHDPRHAITAGPANNSQQQQQQQQQDSSIPSDGISSKIQQLHAPSLSNNQSASQRKKKESSGPKTRPAFVMKIWSMVNDPANHEYIRWNDDGKTFQVFHREDFMKVILPKYFKHNNFASFVRQLNMYGWHKVQDVANGTLNQNSDKNGQDEIWQFENPNFIKDREDLLDKIVRNKSSSNQDDVSGVSFNGINNSANLSLILQELETIKMNQYVISEDLRRVRQDNKMLWQENYLNRERNQVQGRTLDKILKFLSVVYGNNANKILNGHGFADFNDSNNIMTQYRPSPMGSPLLSRPQTQPPPSNSRFARDNNQTAQPTYESPLSTSDTNNNNNNTFEYQQAVNRPRLMLTNRAHSRRPSMSRTKSTPEGSIEEIIRSYSNDKAAESNVNRMYEQLVGHQPGATTNNNNHSSSTAISAPSPRHSFLQELNLPGTPRNLDDLEKHINKEGQSIQQVQDWIDKLAQEQHEKQQQQQGNDDDDDFDVNEFLKDATTTPSSNVPNGGHYNNGNISFVGSPIAMTPGSNVSSNINDSDGNEKKSKKRSIEEVSDH |
| 4778 | sp|A3Q9U8|HSLU\_SHELP | MSEMTPREIVHELDSHIIGQQNAKRSVAIALRNRWRRMQLDAALRQEVTPKNILMIGPTGVGKTEIARRLAKLAKAPFIKVEATKFTEVGYVGKEVEQIIRDLTDAAVKLTREEQMAKCKFRAEEAAEERILDALLPKPKEDWDTEKKDDTGTRQVFRKKLREGQLDDKEIEIDIAAPQVGIEIMSPPGMEEMTSQLQSMFQNMGPGASKRRKMTIKEAYKLLIEEEAAKLVNPDDLKEQAIELVEQHGIVFLDEIDKICKRGDTSGPDVSREGVQRDLLPLVEGCTVNTKHGMVKTDHILFIASGAFQMSKPSDLIPELQGRLPIRVELEALSANDFKRILTEPHASLTEQYVALMATEGVKVEFSESGIERIAQAAWQVNERTENIGARRLHTVMERLMEDLSFEASDKSGSTTVIDADYVNAHLENLVQDEDLSRFIL |
| 4779 | sp|Q99YC7|HRCA\_STRP1 | MITQRQNDILNLIVELFTQTHEPVGSKALQRTIDSSSATIRNDMAKLEKLGLLEKAHTSSGRMPSPAGFKYFVEHSLRLDSIDEQDIYHVIKAFDFEAFKLEDMLQKASHILAEMTGYTSVILDVEPARQRLTGFDVVQLSNHDALAVMTLDESKPVTVQFAIPRNFLTRDLIAFKAIVEERLLDNSVIDIHYKLRTEIPQIVQKYFVTTDNVLQLFDYVFSELFLETVFVAGKVNSLTYSDLSTYQFLDNEQQVAISLRQSLKEGEMASVQVADSQEAALADVSVLTHKFLIPYRGFGLLSLIGPIDMDYRRSVSLVNIIGKVLAAKLGDYYRYLNSNHYEVH |
| 4780 | sp|A5D3X8|HRCA\_PELTS | MKLDDRKQKVLLAIVHDYIATAEPVGSRTIAKKYKLGVSPATIRNEMADLEEMGYIEQPHTSAGRIPSERGYRYYVDYLMKRQELSREEEELIRREYEAKVRDVGQVIQKTGQLLSQLTNYTAVVLSPQIESSRFKYIQLVSMHPSQAMVIVVMDNGIVHNRMIEVPESITCADMETISRVLNAKLRGLTMESIRLTLMKEIYFELARHKHILDLAMELIQDSLLHKVEDKIYLGGVFNMLNQPEFHDVEKVKTLLGILEQEKLLRDLITSGGSEEGVTVRIGGEIMHEDIRECSMVTAPYSVCGRKIGSLGVLGPTRMEYAKVVSVVDFMTKNLSQVLERIVRGTGR |
| 4781 | sp|P68793|HRCA\_STAAN | MITDRQLSILNAIVEDYVDFGQPVGSKTLIERHNLNVSPATIRNEMKQLEDLNYIEKTHSSSGRSPSQLGFRYYVNRLLEQTSHQKTNKLRRLNQLLVENQYDVSSALTYFADELSNISQYTTLVVHPNHKQDIINNVHLIRANPNLVIMVIVFSSGHVEHVHLASDIPFSNDKLNTISNFVTNKLTEFNQNLQDDIVSFVQSEQEEIFINKLINTMNNHISNQSNSIYMGGKVKLIDALNESNVSSIQPILQYIESNRIAELLQDISSPNINVKIGNEIDDSLSDISIVTSQYHFDETLKGQIAVIGPTAMHYQNVIQLLNRIW |
| 4782 | sp|Q8E2A0|HRCA\_STRA5 | MITQRQNDILNLIVELFTQTHEPVGSKALQRTIDSSSATIRNDMAKLEKLGLLEKAHTSSGRMPSPAGFKYFVEHSLRLDSIDEQDIYHVIKAFDFEAFKLEDMLQKASHILSEMTGYTSVILDVEPARQRLTGFDVVQLSNHDALAVMTLDESKPVTVQFAIPRNFLTRDLIAFKAIVEERLLDGSVMDIHYKLRTEIPQIVQKYFVTTDNVLQLFDYVFSELFLETVFVAGKVNSLTYSDLSTYQFLDNEQQVAISLRQSLKEGEMASVQVADSQEAALADVSVLTHKFLIPYRGFGLLSLIGPIDMDYRRSVSLVNIIGKVLAAKLGDYYRYLNSNHYEVH |
| 4783 | sp|Q6G8Y5|HRCA\_STAAS | MITDRQLSILNAIVEDYVDFGQPVGSKTLIERHNLNVSPATIRNEMKQLEDLNYIEKTHSSSGRSPSQLGFRYYVNRLLEQTSHQKTNKLRRLNQLLVENQYDVSSALTYFADELSNISQYTTLVVHPNHKQDIINNVHLIRANPNLVIMVIVFSSGHVEHVHLASDIPFNNDKLNTISNFVTNKLTEFNQNLQDDIVSFVQSEQEEIFINKLLNTMNNHISNQSNSIYMGGKVKLIDALNESNVSSIQPILQYIESNRIAELLQDISSPNINVKIGNEIDDSLSDISIVTSQYHFDETLKGQIAVIGPTAMHYQNVIQLLNRIW |
| 4784 | sp|P27375|HTRC\_ECOLI | MKQEVEKWRPFGHPDGDIRDLSFLDAHQAVYVQHHEGKEPLEYRFWVTYSLHCFTKDYEHQTNEEKQSLMYHAPKESRPFCQHRYNLARTHLKRTILALPESNVIHAGYGSYAVIEVDLDGGDKAFYFVAFRAFREKKKLRLHVTSAYPISEKQKGKSVKFFTIAYNLLRNKQLPQPSK |
| 4785 | sp|Q2Y6A9|HRCA\_NITMU | MLNKRAQILLKTLVERYISEGQPVGSRSLSKFSGLDLSAATIRNVMADLEDMGLVASPHASAGRIPTHQGYRFFVDTLLVVKPLDVIEIHQLQDQLHPDNPSRLINSASQLLAELTRFAGVVVSPKRNSAIFRYIEFMSLSEKRVLLIIVTPEGDVQNRVLFTDRNYSQSELTEAANFINHNYAGCAIDEIRTRLQSELKQLRQDMTSLMTAAIDAGDAAIRENSEAVIVAGERKLLDVQDLSSNMASLKKLFDLFERKTALLQLLEFSRKAEGVQIFIGEECGVVTMDEFSVVTAPYRVDGKMVGTVAVIGPTRMAYERVIPVVDMTARLLSSALSLH |
| 4786 | sp|P68794|HRCA\_STAAU | MITDRQLSILNAIVEDYVDFGQPVGSKTLIERHNLNVSPATIRNEMKQLEDLNYIEKTHSSSGRSPSQLGFRYYVNRLLEQTSHQKTNKLRRLNQLLVENQYDVSSALTYFADELSNISQYTTLVVHPNHKQDIINNVHLIRANPNLVIMVIVFSSGHVEHVHLASDIPFSNDKLNTISNFVTNKLTEFNQNLQDDIVSFVQSEQEEIFINKLINTMNNHISNQSNSIYMGGKVKLIDALNESNVSSIQPILQYIESNRIAELLQDISSPNINVKIGNEIDDSLSDISIVTSQYHFDETLKGQIAVIGPTAMHYQNVIQLLNRIW |
| 4787 | sp|Q9PPG2|HRCA\_CAMJE | MMKSRDKKDLILESIIQTYLLDNAPIGSNELNSNLCIPASTIRVYLKRLSDEGLITQLHISSGRIPTILTMQNYWQNFWEKEQDKNIHIKNESFLKELSKEFEIYCLVYGGRSLVLKEVLDLNTKFIVLDFEDEELVLKYEKEAWNFLQSLIGLDLSSIEKIALRVHFIDLVEKIASLRQNLICYRSNEERAYQIYQNDEFVKLLDCQIHRHFKESLEFEPLFKEGFMGLKVDAQFLGEDVNIILAGSVYTDYKKILQYIKEAA |
| 4788 | sp|A4YJR2|HRCA\_BRASO | MAHHDPINLMTPPAGLAQLNERSREIFRQIVESYLATGEPVGSRNISRLIAVPLSPASVRNVMADLEQLGLIYAPHTSAGRLPTEAGLRFFVDALMQVGDMTEAERQSIQSQLAAVGRAQSVEAALDEALTRLSGLTRAAAVVLTAKSNTRLKHIEFVRLEPEQALVVLVGEDGQVENRVLTLPPGVPSSALTEASNFLNARIRGRTLAEARLELETALAQDRAELDQLTQKVIAAGVASWSGGDSDDRQLIVRGHANLLEDLHALDDLERVRRLFDDLETKRGVVDLLGRAESAEGVRIFIGSENKLFSLSGSSTIVSPYSDATGRIVGVLGVIGPTRLNYARVIPTVDYAARLLSRLMGG |
| 4789 | sp|B3EPC5|HRCA\_CHLPB | MMFHDLSERERQVLSIIIQAYVMNASPVGSRYIARNYNLGLSDATIRNVMADLEDAGYISQPHTSAGRVPTDKGYRYYVDLIMRVQGIDDEEINRIDRNFRLLKYDPKDSADILQAAAKVLGSISQQLSVVISPRLSNALFERLDLVVLSSSRIMVVLSIQSLFVRTIVMELSLEVSRQQIDNVIDLLNQRLSGLTLREIRNSISRRLADCDKDRELLNMIVGSADNLFDDTPVLERLYIAGAEHIVNQPEFDQPQKVRDLVCMIEDKNRMVELLEKEGRVKPVTSSGMDVSISIGRENSATTAEDFTVVTTPYYVGNTIGRLGVLGPKRMDYERVVRLVNYMADRLSHSLS |
| 4790 | sp|B5XZ37|HSLU\_KLEP3 | MSEMTPREIVSELDKHIIGQDAAKRSVAIALRNRWRRMQLNEELRHEVTPKNILMIGPTGVGKTEIARRLAKLANAPFIKVEATKFTEVGYVGKEVDSIIRDLTDAAIKMVRMQSIDKNRYRAEELAEERVLDVLIPPAKNNWGQAEQPQEPSAARQAFRKKLREGQLDDKEIEIDLAAAPMGVEIMSPPGMEEMTSQLQSMFQNLGGQKQKPRKLKIKDAMKLLIEEEAAKLVNPEELKQEAIDAVEQHGIVFIDEIDKICKRGGNSSGPDVSREGVQRDLLPLVEGCTVSTKHGMVKTDHILFIASGAFQVASPSDLIPELQGRLPIRVELKALTTHDFERILTEPNASITVQYKALMATEGVNIEFTEDGIKRIAQAAWQVNETTENIGARRLHTVLERLVEDISYDASEMNGQTVIIDAEYVSKHLDVLVADEDLSRFIL |
| 4791 | sp|P0C055|IBPA\_ECO57 | MRNFDLSPLYRSAIGFDRLFNHLENNQSQSNGGYPPYNVELVDENHYRIAIAVAGFAESELEITAQDNLLVVKGAHADEQKERTYLYQGIAERNFERKFQLAENIHVRGANLVNGLLYIDLERVIPEAKKPRRIEIN |
| 4792 | sp|B7NQY7|IBPA\_ECO7I | MRNFDLSPLYRSAIGFDRLFNHLENNQSQSNGGYPPYNVELVDENHYRIAIAVAGFAESELEITAQDNLLVVKGAHADEQKERTYLYQGIAERNFERKFQLAENIHVRGANLVNGLLYIDLERVIPEAKKPRRIEIN |
| 4793 | sp|B5XT60|IBPA\_KLEP3 | MRNFDLSPLYRSAIGFDRLFNLLENNQSQSNGGYPPYNVELVDENHYRIAIAVAGFAESELEITAQDNLLIVKGAHAAEQKERTYLYQGIAERNFERKFQLAENIHVRGANLVNGLLYIDLERVIPEANKPRRIEIN |
| 4794 | sp|Q76CE8|IBPKA\_TYPIS | MFSSTYLLAIIALAVSSVFAAGPTAVPLGTAGNYAILASAGVSTVPQSVITGAVGLSPAAATFLTGFSLTMSSTGTFSTSTQVTGQLTAADYGTPTPSILTTAIGDMGTAYVNAATRSGPNFLEIYTGALGGKILPPGLYKWTSPVGASADFTIIGTSTDTWIFQIAGTLGLAAGKKIILAGGAQAKNIVWVVAGAVSIEAGAKFEGVILAKTAVTLKTGSSLNGRILSQTAVALQKATVVQK |
| 4795 | sp|A6TFY9|IBPB\_KLEP7 | MRNYDLSPLLRQWIGFDKLASALQTAGESQSFPPYNIEKSDDNHYRITLALAGFRQEDLDIQLEGIRLVVKGTPQQPEKETTWLHQGLVSQAFSLSFTLADNMEVSGATFTNGLLHIDLTRNEPEQIAPQRIAISERPALNS |
| 4796 | sp|A9MMS6|IRAP\_SALAR | MKNLIAELLLKLAQKEEESKELVAQVEALEIIVTAMLRNMAQSEQQMLIRQVEGALEGVKPDASVPDHDTELLRQYVKKLLRHPRH |
| 4797 | sp|Q1R2J0|IRAD\_ECOUT | MMRQSVQTVLPESTGNNTLSLRDSVCRDLFQLFSSPHSPLPILLVSGMPEWQGHNQSDKLLQSWYCRQLRSALLFHEPRIAALQVNLKEAYCHELAISLEMMLYHDDEPLTFDLVWQKGNWHRTMPQ |
| 4798 | sp|B5QYA5|IRAD\_SALEP | MMTPTIPVALFDRLLVEGISPHELVRRKLMCLFNSCAVPGGETLPPLLTRGMPEWHEVNVGDKRVLNWFCRELRAAILRYEPSINMLKVSVKDAHHQTLALSLEAMLQDESEPLRLEIAYSNGRWR |
| 4799 | sp|P0AGK8|ISCR\_ECOLI | MRLTSKGRYAVTAMLDVALNSEAGPVPLADISERQGISLSYLEQLFSRLRKNGLVSSVRGPGGGYLLGKDASSIAVGEVISAVDESVDATRCQGKGGCQGGDKCLTHALWRDLSDRLTGFLNNITLGELVNNQEVLDVSGRQHTHDAPRTRTQDAIDVKLRA |
| 4800 | sp|Q4L3I1|CTSR\_STAHJ | MHNMSDIIEQYIKKLFEESNEDVVEIQRANIAQRFDCVPSQLNYVIKTRFTNEHGYEIESKRGGGGYIRITKIENKDATGYINHLLQIIGPSISQQQAYYILDGLLDKGLISEREARMIQVIVDRETLKMDVVARDIIRANILKRLLPIINFY |
| 4801 | sp|F4HYF3|DCYD1\_ARATH | MRGRSLTLSRVKLELARRSMSATSVPSMADFLTKKPYSPPSWASHLRPLPSHTFSLAHLPTPIHRWNLPGLPNGTELWIKRDDFTGMELSGNKVRKLEFLMAEAVDQHADTVITIGGIQSNHCRATATASNYLNLNSHLILRTSKLLADEDPGLVGNLLVERLVGANVHLISKEEYSSIGSEALTNALKEKLEKEGKKPYVIPVGGSNSLGTWGYIEAAREIEEQLNYRPDDLKFDDIVVACGSGGTIAGISLGSWLGALKAKVHAFSVCDDPDYFYDFVQGLLDGLHAGVNSRDIVNIHNAKGKGYAMNTSEELEFVKKVASSTGVILDPVYSGKAAYGLINEITKDPKCWEGRKILFIHTGGLLGLYDKVDQMASLMGNWSRMDVSESVPRKDGVGKMF |
| 4802 | sp|A5W8F5|DEGPL\_PSEP1 | MSIPRLKSYLMMFAAVLMLGQVLTAQAEEALPDFTTLVEQASPAVVNISTKQKLPDRRIAAGQMPDLEGLPPMFREFFERNMPQQPRSPRGDRQREAQSLGSGFIISSDGYVLTNNHVVADADEIIVRLSDRSELQAKLVGTDPRTDVALLKVDGKNLPTVKLGDSEKLKVGEWVLAIGSPFGFDHSVTKGIVSAKGRTLPNDTYVPFIQTDVAINPGNSGGPLFNMKGEVVGINSQIFTRSGGFMGLSFAIPIDVAIDVSNQLKKDGKVSRGWLGVVIQEVNKDLAESFGLDKPAGALVAQVLENGPAAKGGLQVGDVILSMNGQPIVMSADLPHLVGGLKDGEKAKLEIIRNGKRQNLDISVGALPDDDVEIGAGTEGGAERSSNRLGVSVADLTAEQKKSLELKGGVVIKEVQDGPAAMIGLRPGDVISHLNNQAIGSAKEFTEIAKELPKNRSVSMRVLRQGRASFITFKLAE |
| 4803 | sp|Q4KIH1|DNAK\_PSEF5 | MGKIIGIDLGTTNSCVSILENGNVKVIENAEGARTTPSIIAYANDGEILVGQSAKRQAVTNPHNTLYAVKRLIGRRFDEEVVQKDIQMVPYKIVKADNNDAWVEVNGQKMAPPQISAEILKKMKKTAEDYLGEAVTEAVITVPAYFNDSQRQATKDAGRIAGLDVKRIINEPTAAALAYGMDKAKGDHTVIVYDLGGGTFDVSVIEIAEVDGEHQFEVLATNGDTFLGGEDFDIRLIDYLVDEFKKESGMNLKGDPLAMQRLKEAAEKAKIELSSSQQTDVNLPYITADATGPKHLNVKISRAKLESLVEDLVQRTIEPCRIALKDAGIDVGSINDVILVGGQTRMPLVQKTVTDFFGKEARKDVNPDEAVAMGAAIQGAVLAGDVKDVLLLDVSPLTLGIETMGGVMTALIEKNTTIPTKKSQVFSTADDNQGAVTIHVLQGERKQAAQNKSLGKFDLADIPPAPRGVPQIEVTFDIDANGILHVGAKDKATGKTQSIVIKANSGLSDEEIQQMIRDAEANSEEDRKFEELATARNQGDALVHSTRKMVADAGDKVTAEEKTAIEAAVVALEAAVKGDDKAAIDAKVEELSKVSAPVAQKMYAEQAQPAEGAAPHAESAEKADDVVDAEFEEVKDHK |
| 4804 | sp|Q4AAR4|DNAK\_MYCHJ | MAKEIILGIDLGTTNSVVAIIENQKPVVLENPNGKTTTPSVVAFKNNEEIVGDAAKRQLETNPEAIASIKRLMGTDKTVRANERDYKPEEISAKILAYLKEYAEKKIGHKVTKAVITVPAYFDNAQREATKNAGKIAGLQVERIINEPTAAALAFGLDKTEKEMKVLVYDLGGGTFDVSVLELSGGTFEVLSTSGDNHLGGDDWDNEIVNWLVKKIKEEYDFDPKSDKMALTRLKEEAEKTKINLSNQSVSTVSLPFLGMGKNGPINVELELKRSEFEKMTAHLIDRTRKPIVDALKQAKIEASDLDEVLLVGGSTRMPAVQSMIEHTLNKKPNRSINPDEVVAIGAAIQGGVLAGEISDVLLLDVTPLTLGIETLGGIATPLIPRNTTIPVTKSQIFSTAEDNQTEVTISVVQGERQLAADNKMLGRFNLSGIEAAPRGLPQIEVSFSIDVNGITTVSAKDKKTGKEQTITIKNTSTLSEEEINKMIQEAEENREADALKKDKIETTVRAEGLINQLEKSITDQGEKIDPKQKELLEKQIQELKDLLKEEKTDELKLKLDQIEAAAQSFAQATAQQANTSESDPKADDSNTIDAEIKQD |
| 4805 | sp|B0TQC2|DNAK\_SHEHH | MGRIIGIDLGTTNSCVAVLDGGKARVLENAEGDRTTPSIIAYTADETLVGQSAKRQAVTNPTNTVYAIKRLIGRRFKDDEVQRDVDIMPFKIISADNGDAWVEAQGKKMAPPQISAEILKKMKKTAEDFLGEEVTEAVITVPAYFNDSQRQATKDAGRIAGLEVKRIINEPTAAALAYGIDKKQGDNIVAVYDLGGGTFDISIIEIDSVDGEQTFEVLATNGDTHLGGEDFDNRMIKYLADEFKKEQGLDLRNDPLAMQRLKEAAEKAKIELSSTTQTEVNLPYITADATGPKHLVVKITRAKLESLVEDLIKRSLEPLKVALADADLSVSDINEVILVGGQTRMPKVREEVSAFFGKELRQDVNPDEAVAIGAAVQAGVLSGDVKDVLLLDVTPLSLGIETMGSVMTKLIEKNTTIPTKASQTFSTADDNQSAVTIHVLQGERKQSSGNKSLGQFNLEGIEAAPRGMPQIEVAFDIDADGILHVSATDKKTGKAQNITIKASSGLSDEEVEAMIRDAEAHADEDAKFEELVKSRNQADGMVHATKKQIEEAGEALPADEKEKIEAAMANVETAVKGNDKEAIEKSTQELMEASSKLMEIAQAKAQAEQGQPEGEAKSAKPEDDVVDAEFEEVKDDKK |
| 4806 | sp|Q05647|DNAK\_ERYRH | MSKVIGIDLGTTNSAVSVMDGGEAKVITNPEGNRTTPSVVSFKNGERIVGDAAKRQVVTNPNSAVSVKRLIGTGEKVTLEGKDYTPEEISAMILGYMKSYAEDYLGEKVTKAVITVPAYFNDAQRQATKDAGKIAGLEVERIINEPTAAALAFGIDKTDKEEKVLVFDLGGGTFDVSILELADGTFEVLSTAGDNKLGGDDFDNIVVDYLVDIFKKENGIDLSSDKMAMQRLKEAAEKAKKDLSSTVNASISLPFISAGENGPLHLETTLSRAKFEEMTKSLVERTMVPVRQALKDAGLTKNDIHQVLLVGGSTRIPAVVEAVKNDLGKEPNKSVNPDEVVAMGAAIQGGVISGDGKDVLLLDVTPLSLGIETMGGVMTVLIERNTTIPTSKSQVFSTAADNQPAVDINVLQGERPMAKDNKSLGLFKLDGIAPAKRGIPQIEVTFDIDVNGIVNVSAMDKGTNKKQSITISNSSGLSDEEIERMVREAEENASEDLRLKEEAELKNRAEQFIHQIDESLASEDSPVDDAQKEEVTKLRDELQAAMDNNDFETLKEKLDQLEQAAQAMSQAMYEQQAGQAEVDASSSDETVVDAEFEEKN |
| 4807 | sp|B4TIB4|DNAK\_SALHS | MGKIIGIDLGTTNSCVAIMDGTQARVLENAEGDRTTPSIIAYTQDGETLVGQPAKRQAVTNPQNTLFAIKRLIGRRFQDEEVQRDVSIMPYKIIGADNGDAWLDVKGQKMAPPQISAEVLKKMKKTAEDYLGEPVTEAVITVPAYFNDAQRQATKDAGRIAGLEVKRIINEPTAAALAYGLDKEVGNRTIAVYDLGGGTFDISIIEIDEVDGEKTFEVLATNGDTHLGGEDFDTRLINYLVDEFKKDQGIDLRNDPLAMQRLKEAAEKAKIELSSAQQTDVNLPYITADATGPKHMNIKVTRAKLESLVEDLVNRSIEPLKVALQDAGLSVSDINDVILVGGQTRMPMVQKKVAEFFGKEPRKDVNPDEAVAIGAAVQGGVLTGDVKDVLLLDVTPLSLGIETMGGVMTPLITKNTTIPTKHSQVFSTAEDNQSAVTIHVLQGERKRASDNKSLGQFNLDGINPAPRGMPQIEVTFDIDADGILHVSAKDKNSGKEQKITIKASSGLNEEEIQKMVRDAEANAESDRKFEELVQTRNQGDHLLHSTRKQVEEAGDKLPADDKTAIESALSALETALKGEDKAAIEAKMQELAQVSQKLMEIAQQQHAQQQAGSADASANNAKDDDVVDAEFEEVKDKK |
| 4808 | sp|Q18GZ3|DNAJ\_HALWD | MSEDFYDVLGVSRNADGDDIKQAYRKKAAKYHPDVSDDPNAEEKFKKIKKAKEVLTDGEKRQMYDQLGHDRFQQAEKRGGVGGGGNSSGGSARGDPFGGMGGQGSPFGDIFEQFFGGGQGQRRQGNRPRQGQNLQTRVQLDLEEVYTGVEKQFTVRRPEKCPDCNGRGHPSDADVRTCPQCNGQGQTTTVRETALGRVQQTQTCPRCDGSGEMYTQTCSTCNGDGVTRQEATLSVDIPAGIRDGQTLRMEREGAPGDNGGPRGDLLIDVSVRDHPDFERDGDDLYYRLAISFPQAVFGSTVEVPTVNGETTLDISAGTQSGEEFRIRNEGIPHLRGRGTGDLYVQVQIVTPENLSQKQREALEAFAEAGGESVDVSQGFFEKIKSSF |
| 4809 | sp|O69298|DNAK\_CAMJE | MSKVIGIDLGTTNSCVAVYERGESKVIPNKEGKNTTPSVVAFTDKGEVLVGDSAKRQAVTNPEKTIYSIKRIMGLMINEDAAKEAKNRLPYHITERNGACAIEIAGKIYTPQEISAKVLMKLKEDAEAFLGESVTDAVITVPAYFNDAQRKATKEAGTIAGLNVLRIINEPTSAALAYGLDKKDSEKIVVYDLGGGTFDVTVLETGDNVVEVLATGGNAFLGGDDFDNKLIDFLANEFKDETGIDLKNDVMALQRLKEAAENAKKELSSANETEINLPFITADASGPKHLVKKLTRAKFEGMIDSLVAETITKINEVVSDAGLKKDEIKEIVMVGGSTRVPLVQEEVKKAFNKDLNKSVNPDEVVAIGAAIQGAVIKGDVKDVLLLDVTPLSLGIETLGGVMTKIIEKGTTIPTKKEQVFSTAEDNQSAVTINVLQGEREFSRDNKSLGNFNLEGIPPAPRGMPQIEVTFDIDANGILTVSAKDKATGKAQEIKITGSSGLSEEEINNMVKDAELHKEEDKKRKEAVDARNAADSLAHQVEKSLSELGEKVAAADKENIQKALDDLRETLKNQNASKEEIESKMKALSEVSHKLAENMYKKDEPNTANDKKKKDDDVIDAEVE |
| 4810 | sp|B6EKA0|DNAJ\_ALISL | MSKRDFYEVLGVSRDASERDIKKAYKRLAMKFHPDRNQGDETAPEKFKEVKVAYEILTDAQKRAAYDQYGHAAFEQGGMGGGGGFGGGQGDFGDIFGDVFGDIFGGGRRGGQQRAQRGSDLRYNMELTLEEAVRGCEKDIEIPTLAACEPCDGTGAKKGTSSTTCSTCHGQGQVQMRQGFFAVQQACPTCHGKGKIIKDPCNSCHGDGRVQKTKTLNVKIPSGVDTGDRIRLSGEGEAGEHGAPAGDLYVQVHVKEHNIFDRDGNNLYCEVPVSFTMAALGGEVEVPTLDGRVSLKVPLETQTGRMFRMRGKGVKGVRTHSAGDLIVKLIVETPVKLTKRQRELLKEFQESFDGKDAKKHNPKSEGFLSGVKNFFDDLTK |
| 4811 | sp|Q3APD2|DNAK\_CHLCH | MGKIIGIDLGTTNSCVAVMQGSQPTVIENSEGNRTTPSVVGFTKTGDRLVGQAAKRQAITNPKNTIFSIKRFMGRRFDEVGEEKKMAPYELINDSGEARVKINDKVYSPQEISAMVLQKMKQTAEDFLGEKVTEAVITVPAYFNDAQRQATKDAGRIAGLEVKRIINEPTAAALAYGLDKKNASEKVAVFDLGGGTFDISILELGEGVFEVKSTDGDTHLGGDDFDQKIIDYIAEEFKKQEGIDLRKDAITLQRLKEAAEKAKIELSSRSDTEINLPFITATQEGPKHLVINLTRAKFEAISADLFNKVLDPCRRAVKNAKIEMREIDEVVLVGGSTRIPKIQALVKEFFGKEPNKSVNPDEVVAIGAAIQGGVLKGDVTDVLLLDVTPLSLGIETLGGVMTKLIEANTTIPTKKQEVFSTASDNQTSVEVHVLQGERPMAADNKTLGRFHLGDIPPAPRGIPQVEVIFDIDANGILHVSAKDKATGKEQSIRIEASSKLSDAEINKMKDDAKQHADEDKKRKEEIDIKNSADALIFSTEKQLTELGEKIPTDKKSALEGSLDKLRDAYKNGTTESIKSAMDDLNSQWNSIASDLYQSGAGAAQAQPEAPQNSGSSQSSGGDGAVNAEYEVINDDKK |
| 4812 | sp|Q9P2K8|E2AK4\_HUMAN | MAGGRGAPGRGRDEPPESYPQRQDHELQALEAIYGADFQDLRPDACGPVKEPPEINLVLYPQGLTGEEVYVKVDLRVKCPPTYPDVVPEIELKNAKGLSNESVNLLKSRLEELAKKHCGEVMIFELAYHVQSFLSEHNKPPPKSFHEEMLERRAQEEQQRLLEAKRKEEQEQREILHEIQRRKEEIKEEKKRKEMAKQERLEIASLSNQDHTSKKDPGGHRTAAILHGGSPDFVGNGKHRANSSGRSRRERQYSVCNSEDSPGSCEILYFNMGSPDQLMVHKGKCIGSDEQLGKLVYNALETATGGFVLLYEWVLQWQKKMGPFLTSQEKEKIDKCKKQIQGTETEFNSLVKLSHPNVVRYLAMNLKEQDDSIVVDILVEHISGVSLAAHLSHSGPIPVHQLRRYTAQLLSGLDYLHSNSVVHKVLSASNVLVDAEGTVKITDYSISKRLADICKEDVFEQTRVRFSDNALPYKTGKKGDVWRLGLLLLSLSQGQECGEYPVTIPSDLPADFQDFLKKCVCLDDKERWSPQQLLKHSFINPQPKMPLVEQSPEDSEGQDYVETVIPSNRLPSAAFFSETQRQFSRYFIEFEELQLLGKGAFGAVIKVQNKLDGCCYAVKRIPINPASRQFRRIKGEVTLLSRLHHENIVRYYNAWIERHERPAGPGTPPPDSGPLAKDDRAARGQPASDTDGLDSVEAAAPPPILSSSVEWSTSGERSASARFPATGPGSSDDEDDDEDEHGGVFSQSFLPASDSESDIIFDNEDENSKSQNQDEDCNEKNGCHESEPSVTTEAVHYLYIQMEYCEKSTLRDTIDQGLYRDTVRLWRLFREILDGLAYIHEKGMIHRDLKPVNIFLDSDDHVKIGDFGLATDHLAFSADSKQDDQTGDLIKSDPSGHLTGMVGTALYVSPEVQGSTKSAYNQKVDLFSLGIIFFEMSYHPMVTASERIFVLNQLRDPTSPKFPEDFDDGEHAKQKSVISWLLNHDPAKRPTATELLKSELLPPPQMEESELHEVLHHTLTNVDGKAYRTMMAQIFSQRISPAIDYTYDSDILKGNFSIRTAKMQQHVCETIIRIFKRHGAVQLCTPLLLPRNRQIYEHNEAALFMDHSGMLVMLPFDLRIPFARYVARNNILNLKRYCIERVFRPRKLDRFHPKELLECAFDIVTSTTNSFLPTAEIIYTIYEIIQEFPALQERNYSIYLNHTMLLKAILLHCGIPEDKLSQVYIILYDAVTEKLTRREVEAKFCNLSLSSNSLCRLYKFIEQKGDLQDLMPTINSLIKQKTGIAQLVKYGLKDLEEVVGLLKKLGIKLQVLINLGLVYKVQQHNGIIFQFVAFIKRRQRAVPEILAAGGRYDLLIPQFRGPQALGPVPTAIGVSIAIDKISAAVLNMEESVTISSCDLLVVSVGQMSMSRAINLTQKLWTAGITAEIMYDWSQSQEELQEYCRHHEITYVALVSDKEGSHVKVKSFEKERQTEKRVLETELVDHVLQKLRTKVTDERNGREASDNLAVQNLKGSFSNASGLFEIHGATVVPIVSVLAPEKLSASTRRRYETQVQTRLQTSLANLHQKSSEIEILAVDLPKETILQFLSLEWDADEQAFNTTVKQLLSRLPKQRYLKLVCDEIYNIKVEKKVSVLFLYSYRDDYYRILF |
| 4813 | sp|Q78TU8|F107A\_MOUSE | MYSEIQRERADIEGLMARPEYREWNSELIKPKKLLNPVKASRSHQELHRELLMNHKRGLGMDSKPELQRVLEHRRRNQLIKKKEEELEAKRMQCPFKQELLRRQQRLNQLENPPQRDEDHAPEFIKVRENLRRITTLTSEERAL |
| 4814 | sp|P36088|FRMSR\_YEAST | MGSSTGFHHADHVNYSSNLNKEEILEQLLLSYEGLSDGQVNWVCNLSNASSLIWHAYKSLAVDINWAGFYVTQASEENTLILGPFQGKVACQMIQFGKGVCGTAASTKETQIVPDVNKYPGHIACDGETKSEIVVPIISNDGKTLGVIDIDCLDYEGFDHVDKEFLEKLAKLINKSCVFK |
| 4815 | sp|P43535|GCN20\_YEAST | MASIGSQVRKAASSIDPIVTDYAVGYFNHLSGITFDAVQSKQVDLSTEVQFVSDLLIDAGASKAKVKELSESILKQLTTQLKENEAKLELTGDTSKRLLDINVLKSHNSKSDINVSLSMLGVNGDIEHTGRKMETRVDLKKLAKAEQKIAKKVAKRNNKFVKYEASKLINDQKEEDYDSFFLQINPLEFGSSAGKSKDIHIDTFDLYVGDGQRILSNAQLTLSFGHRYGLVGQNGIGKSTLLRALSRRELNVPKHVSILHVEQELRGDDTKALQSVLDADVWRKQLLSEEAKINERLKEMDVLRQEFEEDSLEVKKLDNEREDLDNHLIQISDKLVDMESDKAEARAASILYGLGFSTEAQQQPTNSFSGGWRMRLSLARALFCQPDLLLLDEPSNMLDVPSIAYLAEYLKTYPNTVLTVSHDRAFLNEVATDIIYQHNERLDYYRGQDFDTFYTTKEERRKNAQREYDNQMVYRKHLQEFIDKYRYNAAKSQEAQSRIKKLEKLPVLEPPEQDKTIDFKFPECDKLSPPIIQLQDVSFGYDENNLLLKDVNLDVQMDSRIALVGANGCGKTTLLKIMMEQLRPLKGFVSRNPRLRIGYFTQHHVDSMDLTTSAVDWMSKSFPGKTDEEYRRHLGSFGITGTLGLQKMQLLSGGQKSRVAFAALCLNNPHILVLDEPSNHLDTTGLDALVEALKNFNGGVLMVSHDISVIDSVCKEIWVSEQGTVKRFEGTIYDYRDYILQSADAAGVVKKH |
| 4816 | sp|Q9HGN1|GCN2\_SCHPO | MDAAKRLELCKEIQENEIEALKAIFMDDFEELKVRNAWNVTNGHVYCIHLCSRSANSKSIAKLDLCIELGRSYPYVKPVIKLQNGENVLNSQIRFLLDKLDTKAKDLLGEEMIFELASIVQDYLNDWQSDLSSQFASLEEERAVQLKHDRERAEVDLQLRLKREKDALFEEEQTLQNKIQDELQRRSYETPQSSSKKKTNSKETTSLETLPTSIYFDCSISVRDCHDSLVTFNRVLPLYTISHSNLSTLTLVKPESKEISLQDCVFLLRTVRISTPYWSTEDGKREIQELEYELESLKVIRHDLLASIYEYQLERETRGYGWRLYVLQEYSPKFTLFSLLQTVLTLDVETVRAFSNNILEGLAELHRLGISHKSLHLDNVVLFHSGHRTFAKLMDFGFTRTLRDMNASHPFNINSQSITNILPEGLYPPEVSESSFAAASRKTDIWCFGLLVLQMLCGAHVLNKFSSLKLIMTHVIPLLPGSYQDLVRRCLMRDSRKRPSAIDLLSSHVIRLGTAVLPPVEQGTFSKSARPSYGGQQDGIIDLLYRKSVSRYETDFEELEFLGRGGFGEVVKVKNRIDGRFYAVKKLVLLSDDKENSRILREVMTLSRLHHEHVVRYYTAWVETEANDTVTEIISSDSESLSQSLNMAVDFRQSSSLPADKLSSLDIHFEDDYNSSADEEDPEASDISFQYSNTSDKEGSSDKDSSIEEASSVKTQENGLNATLYIQMEYCEKLSLQDIIRDKIPVDEMWRLFRQILEALAYIHSRGMMHRDLKPGNIFLDENRNVKLGDFGLATENENYQDNNDKWKNRQSADEDLTTGVGTALYVAPELLSRRNGVRYDAKVDMYSLGIILFEMCMTFSTSMERIRIIDTIRSPSISFPSTFPFSRASHEFKVIHCLLQHDPTKRPSSQELLESEAIPPKVGEEFIQEGLRLLSNPNTPYYLKLLKVLFGQVPDRHKDFTYDFNLSEESGVLSKVSDRGWDSLLACLVRDHVVKVFRRHGAKERESHILFPKSSQYDKDQASVSLLDKNGTLLQLPYDTVLPYARNVARNAVEEEKTYLISDVFREAKGGGRPKAIKEISFDITTNSDNLDWYDAETIKALDEVLTEIPSLTESCILINHADILSSILDYLQVSKDKRRMATHILGQINQRLTLSQVRNQLRIESLVPSTTLDDLSLFDFRENYEEGASKLRKIFGKEMPQKMRTALNYMERVVKLLRALKISHQLYFMPLCVYNFEFYDGGLMFQAINLAEKSELICAGGRYDKLVRFFDPPLMRTARKKHVVGICFALEKLVFSMLRYIRFHNSKQSSKHSPSPTLKSVGPWAPRRVDVLVTSIGKDSILEKCSLLQELWALNIQADIVLRGASSLEEIVTHYRSEGINWVLVVRQKNTQMEHSVKARNILKNEDDEIRFDEVGMWLLGEINERKRNESMLQSKRILDSAQQDVAKFVDTSQSNLDVQLISLKDVNDRKYKWKHKQNAMNKVYDLVQSAIRESSEDAIALAVDCDSEAMEKLRSTTTLDEESWKRLIESCPASQREYMQRLQKKLVTLAEQDKKRVWICSFRTNEIYLYGLK |
| 4817 | sp|B4EDZ4|GRPE\_BURCJ | MENTQENPATPSAEDIGSEKQAAQGAAPAAEAADAALAEAQAKVAELQESFLRAKAETENVRRRAQDDVSKAHKFAIESFAEHLLPVLDSLEAAVSDTSGDIAKVREGVELTLRQLTSALEKGRVVAINPVGEKFDPHQHQAISMVPAEQEPNTVVTVLQKGYMIADRVLRPALVTVAQSK |
| 4818 | sp|B3EPC6|GRPE\_CHLPB | MTKKTSHHKAEQKEKRAGEESGRESEVLDHKIEELENELIGAREQADKLREELLRKAAEFENFRRQKEREALMAGSRTLETVIRELLPFVDDVVRIVEHAPELLEKTEDARPYVDGAELLKKNLVRWLEDKGVTRIDALGKKMDVNLHEAITQVEYPDVEPETVVEVFQDGYVLGDRVLRHTKVVVAK |
| 4819 | sp|B3H0M9|GRPE\_ACTP7 | MTAQNENAQAQAEQVEVANEAQLEQTAEVQQEQPVEAELAAAYARINELETYVAEADNREKDIQLRAQAEIQNIRRRAEQDIEKAHKFALEKFSKELLTVVDNLERGLNALDTAVTDEKTQALVDGVEMTHKEFISTLAKFGVEAVGVVGEAFNPEVHEAISMQPAEGIEANHISVVLQKGYTLQGRVLRPAMVMVAG |
| 4820 | sp|Q9SZJ2|GRDP2\_ARATH | MDKEKEQTLEWNEAQKIDISVDLLAAAKKHLLFLGAVDRNRCLYDGPALQRAIYRYNAYWLPLLAQYTESSSICQGPLVPPLDCEWVWHCHRLNPVRYKTDCEQFYGRVLDNSGVVSSVNGNCKSQTETLWKRLYPTEPYDLDFANAISEPADVSALEKCTTYDLVLAVKRQSPFFYQVSRAHVDNDVFLQEAVARYKAFLYLIKGNRERSIKLFCVPTYDIDLIWHTHQLHAISYCNDLTKMIGKVLEHDDTDSDRSKGKKLDTGFSGTTAQWEETFGRRYWKAGAMNRGNTPKPVTTSPYVCSGKKSIAKEEESQNVIQYPEVKVIEVILEIVGVKNLPDAHKGKVFVLFSKTQPDSLFNAERRLTVLSESCGEKQVALFQCEPTGELSFQLMSSKSKSLGFTSLSFSEFLSPVTKLSVEKWLELTPTKRGKADDPNPISLRVAVSFTPPTRSPTVLHLVQARPSLKGSCFLPMLRKVRLAKSFTRVVDETETEVINLQMRNSNDAAPKGDRRQVIGVKECGETYVLAEYDGTFWSLLDSKWSLKQTCNPATDGPLFELSGTRMVKVYSGRKLEYEPKHCSKLRSEQDFMTAVEFSKQHPYGKAVGLLDLKFGSIEANEKWLVLPGMVSSFILSDLLKKEGFSAAAKDTVKANGITEESTEIDVLSQEKLEEETMMDVDTTTPVAVAAEKINGGARCFSKELSGNMIEEEGGHCGGCGGCGGCGGGGGCGGGGRCGGMTKIEGCGGGSCTGGSTGCGNCGGGCGNMMKNNANGNAPSVENDAVTA |
| 4821 | sp|Q8GH80|GRPE\_CHLAB | MTDSSNAHEAENPTVPTPDNEIQDLQQEIATLKAELKEKNDKYLMVLAESENARKRMQKERQEMMQYAVENALIDFLVPIESMEKALGFASQMSDEVKNWALGFNMILQQFKQVFEEKGIVEYSSVGQKFNPFLHEAVETEETTKVPEGTIVEEFSKGYKIGDRPIRVAKVKVSKAPAPQGTEAEIENNNE |
| 4822 | sp|Q6G8Y6|GRPE\_STAAS | MTNKDESVEKNTESTVEETNVKQNIDDSVEQAEESKGHLQDEAIEETSDENVIEEIDPKDQKINELQQLADENEEKYLRLYAEFENYKRRIQKENEINKTYQAQRVLTDILPAIDNIERALQIEGDDETFKSLQKGVQMVHESLINALKDNGLEVIKTEGEAFDPNIHQAVVQDDNPDFESGEITQELQKGYKLKDRVLRPSMVKVNQ |
| 4823 | sp|A5V5Q2|GRPE\_SPHWW | MSEENIGENEVETPETEPSAEAEVESPFAKLEGELEKLRNEVLYAQAETQNVRRRLEKEKADASAYAATGFARDMLSVADNLGRALAAIPAELREDDRIGSLLTGIEMTAKELENVFQRNGISKIEALGAKLDPNRHQAMVELPSADAEPGTVIQEMQAGYMIKDRLLRPALVGVAKTPEA |
| 4824 | sp|F4IVL6|GRV2\_ARATH | MDSVSRGAVASTTGGAVEEPEYLARYLVVKHSWRGRYKRILCISSGGIVTLDPNTLAVTNSYDTGSNFDGASPLVGRDENTESVGGEFTVNVRTDGKGKFKAMKFSSRCRASILTELYRLRWNQIRPVAEFQVLHLRRRNAEWVPYKLKITFVGLELVDSKSGNSRWILDFRDMGSPAIILLSDAYRTKSADSAGFVLCPMYGRKSKAFRAAPGTTNSSIVASLAKTAKSMVGVFLSVDDSQLLTVSEYMTRRAKEAVGAEETPNGWWSVTRLRSAAHGTLNMPGLSLAIGPKGGLGEHGDAVALQLILTKASLVERRIDNYEVVIVRPLSSVSSLVRFAEEPQMFAIEFSDGCPVLVYASISRDNLLAAILDTLQTEGHCPIPVLPRLTMPGHRIDPPCGRVSLISGPQHLVADLETCSLHLKHLAAAAKDAVAEGGSVPGCRARLWRRIREFNACIPYTGVPANSEVPEVTLMALITMLPSTPNLPVDAPPLPPPSPKAAATVIGFVTCLRRLLSSRSAASHIMSFPAAVNRIMGLLRNGSEGVAAEAAGLIASLIGGWSADLSTAPDSRGEKHATIMHTKSVLFAQQGYVTILVNRLKPMSVSPLFSMAIVEVFEAMVCDPHGETTQYTVFVELLRQIAALRRRLFALFAHPAESVRETIAVIMRTIAEEDAIAAESMRDAALRDGALLRHLLNAFSLPASERREVSRQLVALWADSYQPALDLLSRVLPPGLVAYLHTRPDDVVDDTDQEGSSTNRRQKRLLQQRRGRIAKGMGAQDIPLPPGNNVEAGDAAKHMSANASVPDNFQRRAADSSSEASNPQASAFPGVDSTIAGVSQNGYPAFASVTTNANGHEQPETNASDVVGSDPNLYGIQNSVLPAPAQVIVESTAVGSGKLLLNWREFWRAFGLDHNRADLIWNERTRQELIEALKAEVHNLDVEKERTEDISPGDVEATTGQEIIPRISWNYSEFSVSYRSLSKEVCVGQYYLRLLLESGNAGKAQDFPLRDPVAFFRALYHRFQCDADMGLTIDGAVPDELGSSGDWCDMSRLDGFGGGGGASVRELCARAMAIVYEQHYNTIGPFEGTAHITALIDRTNDRALRHRLLLLLKALVKVLLNVEGCVVVGGCVLAVDLLTVVHENSERTPIPLQSNLIAATAFMEPPKEWMYIDKGGAEVGPVEKDVIRSLWSKKDIDWTTKCRALGMSDWKKLRDIRELRWAVAVRVPVLTPSQVGDAALSILHSMVSAHSDLDDAGEIVTPTPRVKRILSSTRCLPHIAQALLSGEPVIVEAGAALLKDVVTRNSKAMIRLYSTGAFYFALAYPGSNLYSIAQLFSVTHVHQAFHGGEEATVSSSLPLAKRSVLGGLLPESLLYVLERSGPAAFAAGMVSDSDTPEIIWTHKMRAENLICQVLQHLGDYPQKLSQHCHSLYDYAPMPPVTYPELRDEMWCHRYYLRNLCDEIQFPNWPIVEHVEFLQSLLVMWREELTRKPMDLSEGEACKILEISLNNVSSDDLNRTASVELNEEISNISKQIQNLDEEKLKRQYRKLAMRYHPDKNPEGREKFLAVQKAYECLQATMQGLQGPQPWRLLLLLKAQCILYRRYGHVLRPFKYAGYPMLLDAVTVDKDDNNFLSNDRSPLLVAASELVSLTCAASSLNGEELVRDGGVQLLSTLLSRCMCVVQPTTSQHEPAAIIVTNVMRTLSVISQFESARAGFLELPSLIEDIVHCTELERVPAAVDAALQSIAKVSVFPELQHGLLKAGALWYILPLLLQYDSTAEESNSVESHGVGVSIQIAKNEHALQASQALSRLTGLCADESLTPYNATAADVLKALLTPKLASLLKDEVAKDLLSKLNTNLETPEIIWNSATRSELLNFVDEQRACQCPDGSYDLKNAQSFSYDALSKEVFVGNVYLKVYNDQPDSEISEPESFCNALIDFISSLVHTELPSVSEDQNLIEDRNSSNDTPELQSSVAEPSLIEEHSDHQPSSEGMKNEECFLIDHLQLGLTALQNLLTKYPDLASVFSSKERLLPLFECFSVAIASKTDIPKLCLNVLSRLTAYAPCLETMVSDGSSLLLLLQMLHSAPSFREGALHVLYALASTPELAWAAAKHGGVVYILELLLPLQKEIPLQQRAAAASLLGKLVAQPMHGPRVAITLVRFLPDGLVSIIRDGPGEAVVHALERTTETPELVWTPAMAASLSAQIATMASDIYREQQKGSVIEWDVPEQSAGQQEMRDEPQVGGIYVRRFLKDPKFPLRNPKRFLEGLLDQYLSAMAATHYEQHPVDPELPLLLSAALVSLLRVHPALADHIGHLGYVPKLVAAVAYEGRRETMSSGEVKAEEIGSDGVNESTDPSSLPGQTPQERVRLSCLRVLHQLAASTTCAEAMAATSAGNAQVVPLLMKAIGWLGGSILALETLKRVVVAGNRARDALVAQGLKVGLIEVLLGLLDWRTGGRYGLSSHMKWNESEASIGRVLAVEVLHGFATEGAHCSKVREILDASEVWSAYKDQKHDLFLPSNTQSAAGVAGFIENSSNSLTYALTAPPPPSHP |
| 4825 | sp|Q7NDP1|GRPE\_GLOVI | MAENERTTENFQPQDPSYAEAATTEASAAEATGFIARIDQLAAENSDLQKKLADYEQKYTRLMADFDNFRKRTQREKDELAYFVSAKLLKDILPVFDNFDRARAFAQPDNEREEKLHNSYQQVYRQFLSVLEKMGVTAMEAIGQPFDPAQHEAILREESAGVSQETVVAELQKGYLLADKVLRPAMVKVAIPEAGS |
| 4826 | sp|O87776|GRPE\_LACSK | MTKQEKAENQEKPTEETVEETPKKETPFEPVMEADEVEETTEAQAPVEEADDKLAELQKKYDAMEDSFLRSQAEIKNIQMRNQKEQANLLKYDGQSLAKDVLPVLDNLERALAAEATDESLKKGVQMTYDHMKHALEDHGVKEIEAQGQAFDPTIHQAVQTVAVDGDQKADTVVQVFQKGYYLKDRVLRPAMVVVAQ |
| 4827 | sp|B4F059|GRPE\_PROMH | MSSKEQNVHEEQVSKEKEGMESVMNESQEQVKSEDAQAEFDAQAELVQALARVDELEKQLQQSQKTEREAMIRAQAEIENIRRRTQQDVEKAHKFALEKFSNELLPVLDNLERALSAADHENEQMQPMIEGLELTLKSFLDAVRKFGIEVVEEKNVAFNPEVHQAMTLIDSPEHEANHVVDVMQKGYTLNGRLLRPAMVVVSK |
| 4828 | sp|B5XVJ9|GRPE\_KLEP3 | MSSKEQKTPEGQAPEEIITEQHDDVEAVEPEVSAEQVDPRDEKIANLEAQLAEAQKREREVMLRAKADEDNLRRRTEQDIEKAHKFALEKFVNELLPVIDSLDRALEVADKANPDLAPMVEGIELTLKSMLDVVRKFGVEVIADTNVPLDPNVHQAIAMVESEDVAAGNVLAVMQKGYTLNGRTIRAAMVTVAKAK |
| 4829 | sp|P94063|HAL3B\_ARATH | MNMEVDTVTRKPRILLAASGSVASIKFSNLCHCFSEWAEVKAVASKSSLNFVDKPSLPQNVTLYTDEDEWSSWNKIGDPVLHIELRRWADVMIIAPLSANTLAKIAGGLCDNLLTCIVRAWDYSKPLFVAPAMNTLMWNNPFTERHLVLLDELGITLIPPIKKKLACGDYGNGAMAEPSLIYSTVRLFWESQARKQRDGTS |
| 4830 | sp|A1JKI6|GRPE\_YERE8 | MSSKEQKTPNEQVSEEMENAAEQQVEATQETGEGVDPRVAELEAQLAAAVQRERESLLRAKAEVENIRRRTEQDVEKAHKFALEKFSAELLPVIDNLERALDTADKTNAELAAMIEGVELTLKSLLDAVGKYGIQVVSETNVPFNPEVHQAMTMLESADHEPNHVMMVMQKGYTLNGRLLRPAMVAVSKAKA |
| 4831 | sp|B3PZA4|GRPE\_RHIE6 | MTDETTKNGPDATAADAAADAAAYVENDTVQEETAQPDPLELLKAENSELRDRYLRLAAEMDNLRRRTEREVKDAKSYSVAGFARDMLAVSDNLRRALDAISPEAKATADAGLTSLIEGVEMTERAMLSALERHGVRKLEPVGQKFDPNFHQAMFEVPNSEVPNNTVVQVVQAGFTIGERVLRPAMVGVAKGGPKPAEAETNSVFDEKDA |
| 4832 | sp|Q9S7V4|HA22A\_ARATH | MGSGAGNFLKVLLRNFDVLAGPVVSLVYPLYASVQAIETQSHADDKQWLTYWVLYSLLTLIELTFAKLIEWLPIWSYMKLILTCWLVIPYFSGAAYVYEHFVRPVFVNPRSINIWYVPKKMDIFRKPDDVLTAAEKYIAENGPDAFEKILSRADKSKRYNKHEYESYETMYGEGYQY |
| 4833 | sp|B7MCM0|HCHA\_ECO45 | MTVQKSKNPQVDIAEDNAFFPSEYSLSQYTSPVSDLDGVDYPKPYRGKHKILVIAADERYLPTDNGKLFSTGNHPIETLLPLYHLHAAGFEFEVATISGLMTKFEYWAMPHKDEKVMPFFEQHKSLFRNPKKLADVVASLNADSEYAAIFVPGGHGALIGLPESEDVAAALQWAIENDRFVISLCHGPAAFLALRHGDNPLNGYSICAFPDAADKQTPEIGYMPGHLTWYFGEELKKMGMNIINDDITGRVHKDRKVLTGDSPFAANALGKLAAQEMLAAYAG |
| 4834 | sp|Q137B6|HFQ\_RHOPS | MAADRAQNLQDTFLNHVRKTKTPLTIFLVNGVKLQGIVTWFDNFCLLLRRDGHSQLVYKHAISTIMPGAPIQLFEGGEDAPA |
| 4835 | sp|B2TY47|HFQ\_SHIB3 | MAKGQSLQDPFLNALRRERVPVSIYLVNGIKLQGQIESFDQFVILLKNTVSQMVYKHAISTVVPSRPVSHHSNNASGGTSSNYHHGSSAQNTSAQQDSEETE |
| 4836 | sp|A5IJP8|HFQ\_THEP1 | MAEKFNLQDRFLNHLRVNKIEVKVYLVNGFQTKGFIRSFDSYTVLLESGNQQSLIYKHAISTIIPSSYVMLMPRKQETAQEAETSENEGS |
| 4837 | sp|Q2IW30|HFQ\_RHOP2 | MAADRAQNLQDTFLNHVRKTKTPLTIFLVNGVKLQGIVTWFDNFCLLLRRDGHSQLVYKHAISTIMPGAPIQLFEGGEDSPA |
| 4838 | sp|P0CJ67|HICA\_ECO57 | MKQSEFRRWLESQGVDVANGSNHLKLRFHGRRSVMPRHPCDEIKEPLRKAILKQLGLS |
| 4839 | sp|P80873|GS39\_BACSU | MANYPKELPAQTQSRQPGIESEMNPSPVYEYEDYKGADKLKGKVALITGGDSGIGRAVSVAYAKEGADIAIVYKDEHEDAEETKKRVEQEGVKCLLIAGDVGEEEFCNEAVEKTVKELGGLDILVNNAGEQHPKESIKDITSEQLHRTFKTNFYSQFYLTKKAIDYLKPGSAIINTTSINPYVGNPTLIDYTATKGAINAFTRTMAQALVKDGIRVNAVAPGPIWTPLIPATFPEETVAQFGQDTPMGRPGQPVEHVGCYVLLASDESSYMTGQTLHVNGGNFVTT |
| 4840 | sp|Q9FED2|HA22E\_ARATH | MTKLWTSLSALHSLAGPVVMLLYPLYASVIAIESPSKVDDEQWLAYWILYSFLTLSELILQSLLEWIPIWYTAKLVFVAWLVLPQFRGAAFIYNKVVREQFKKYGILKPKVEHQAE |
| 4841 | sp|Q1BGW9|HFQ\_BURCA | MSNKGQLLQDPFLNALRKEHVPVSIYLVNGIKLQGNIESFDQYVVLLRNTVTQMVYKHAISTVVPARPVNFHPDAEASS |
| 4842 | sp|B2IB74|HFQ\_BEII9 | MAVDRPQNLQDTFLNFVRKNKVPLTIFLVNGVKLQGVVTWFDNFCVLLRRDGHSQLVYKHAISTIMPGAPIQMFEPGDEAGHAG |
| 4843 | sp|Q04S67|HFQ\_LEPBJ | MSAKNNIQDQLLNTARKDKLDLTIYLLNGVPLKGKVVSFDNFTIVLEQENKQSLVYKHAISTIIPAKIIKLYTEETKDAVQG |
| 4844 | sp|Q5X982|HFQ\_LEGPA | MSKNHLLQDPFLNELRKEKVPVSVFLVNGIKLHGIIDSFDQYVVMLKNSITQMVYKHAISTVVPSRMVKIPAEESSGEEEGTVAD |
| 4845 | sp|Q0BM86|HFQ\_FRATO | MSRISSLQDPFLNALRKEKVSVSVYLVNGIKLQGQVEAFDQFCIVLRNTVNQMVYKHAISTIVPAKSVRMVYSSFNPYHQNSNDEQDENVDDIHSDDLEIQENEGNIHE |
| 4846 | sp|B7I612|HTPX\_ACIB5 | MMRIGLFLLTNLAVLVVAGIILSLFGVGSYHGAGGLNLGNLLVICFVFGMVGSLVSLFMSKWMAKKTTGTELIDPNAPRNQAESWLLQTVAELSQRAGINMPEVGIFPSYQSNAFATGWNKNDALVAVSSGLLERMNKDELRAVLAHEIGHVANGDMVTLALIQGVVNAFVMFFARVVGDFIDRNVFGRQDNEAPGMGYFIITMVLDIVFGILASAIVMWFSRYREYRADEAGARLAGKQAMISALLRLQAETELPDQMPKEMKAFAIAEGKEQGFSLAALFQTHPTIEQRVAALHQLDCP |
| 4847 | sp|A6WIH5|HSLU\_SHEB8 | MSEMTPREIVHELDAHIIGQQKAKRSVAVALRNRWRRMQLDADFRQEVTPKNILMIGPTGVGKTEIARRLAKLANAPFIKVEATKFTEVGYVGKEVEQIIRDLTDIAIKLTREQQMGKCRQRAEEHAEERILDALLPKPKNDWESTETDSSSNTRQVFRKKLREGQLDDKEIDIDVAQPQIGVEIMSPPGMEEMTNQLQSLFKNMGQAPAKRRKMKIKEAFKLLIEEEAAKLVNQEDLKEQAIEMVEQHGIVFLDEIDKICKRGETSGPDVSREGVQRDLLPLVEGCTVTTKHGMVKTDHILFIASGAFQMSKPSDLIPELQGRLPIRVELDALSADDFKRILTEPHASLTEQYIALMNTEGVKVEFSESGIDSIAKAAWQVNERTENIGARRLHTVMEKLMEDISYEASEKSGSAFVIDADYVSAHLDNLVQDEDLSRFIL |
| 4848 | sp|A1WRK1|HSLU\_VEREI | MTSMTPQEIVSELDKHIVGQSSAKRAVAIALRNRWRRQQVQGSLRQEITPKNILMIGPTGVGKTEIARRLAKLADAPFIKVEATKFTEVGYVGKDVDSIIRDLADMAVKQTRESEMKKVRARAEDAAEDRILDVLIPPPRGADGAEPAADGTTRQMFRKKLREGLLDDKDIEIDVTESRPHLEIMGPQGMEEMTEQLRSMFSQFGQDKRRTRKLKIAEAMKLLTDEEAGKLVNEEEIKTRALANAEQNGIVFIDEIDKVATRQETSGADVSRQGVQRDLLPLVEGTTVSTKYGMIKTDHILFIASGAFHLSRPSDLIPELQGRFPIRVELESLSVQDFEAILTQTHASLVKQYQALLATEDVTLAFVPQGITRLACIAFEVNERTENIGARRLSTVMERLLDEVSFDATRLSGQTVTIDEGYVDQRLQQLSLNEDLSRYIL |
| 4849 | sp|Q45550|HRCA\_GEOSE | MLTERQLLILQVIIDDFIRSGQPVGSRTLSKKHEIALSSATIRNEMADLEELGYIEKTHVSSGRVPSEKGYRYYVDHLLSPQRLTKDDIQKIKSIFAERIYELEKVVQKSAQILSDLTNYTSIALGPAVKENKLKRIQIIPLNQQTAVAIIVTDTGHVENHVITVPASVNPSDLEKMVNIFNERLIGVPLVDLKDKIYKKVADVLRKHIRNYDSMLQTIVETLDIPQEEKMFFAGKTNMLNQPEFNDIQKIRPLMKMIEQEKDFYRLLRKHNRKGIQVTIGRENQLSEMENCSLITATYSIGDEQLGTIAILGPTRMEYSRVITILNRVASDLSIALTKWYQNG |
| 4850 | sp|Q8Z2Z0|HSLU\_SALTI | MSEMTPREIVSELNKHIIGQDNAKRSVAIALRNRWRRMQLDEELRHEVTPKNILMIGPTGVGKTEIARRLAKLANAPFIKVEATKFTEVGYVGKEVDSIIRDLTDAAVKMVRVQAIEKNRYRAEELAEERILDVLIPPAKNNWGQAEQQQEPSAARQTFRKKLREGQLDDKEIEINLAAAPMGVEIMAPPGMEEMTSQLQSIFQNLGGQKQKPRKLKIKDAMKLLVEEEAAKLVNPEELKQDAIDAVEQHGIVFIDEIDKICKRGETSGPDVSREGVQRDLLPLVEGCTVSTKHGMVKTDHILFIASGAFQVAKPSDLIPELQGRLPIRVELQALTTSDFERILTEPNASVTVQYKALMATEGVNIEFTDSGIKRIAEAAWQVNETTENIGARRLHTVLERLMEEISYNASDLHGQNITIDAEYVSKHLDALVADEDLSRFIL |
| 4851 | sp|Q14568|HS902\_HUMAN | MPEETQTQDQPMEEEEVETFAFQAEIAQLMSLIINTFYSNKEIFLRELISNSSDALDKIWYESLTDPSKLDSGKELHINLIPNKQDQTLTIVDTGIGMTKADLINNLGTIAKSGTKAFMEALQAGADISMIGQFGVSFYSAYLVAEKVTVITKHNDDEQYAWESSAGGSFTVRTDTGERMGRGTKVILHLKEDQTEYLEEQRIKEIVKKHSQLIGYPITLFVEKECDKEVSDDETEEKEDKEEEKEKEEKESKDKPEIEDVGSDEEEEKKDGDKKKKKTKEKYIDQEELNKTKPIWTRNPDDITNEEYGEFCKNLTNDWEDHLAVKHFSVEGQLEFRALLFVP |
| 4852 | sp|Q6NCY7|HRCA\_RHOPA | MAQHDPIGLIAPNAGLAQLNERSREIFRQIVESYLATGEPVGSRNISRLISVPLSPASVRNVMADLEQLGLIYAPHTSAGRLPTELGLRFFVDALMQIGDLTEPERQSIQAQLSSVGRAHTVEAALGEALTRLSGLTRAAAVVLTAKANVRLKHIEFVRLEPERALVILVAEDGQVENRVLTLPPGVPSSALIEAANYLNARIRGRTLAEARLELESLMVQNKAELDQLTQKVIAAGIASWSGGDGEDRQLIVRGHANLLEDLHALDDLERVRLLFDDLETKRGVIDLLGRAESADGVRIFIGSENKLFSLSGSSTIIAPYSDGAGHIVGVLGVIGPTRLNYARVIPMVDYTARIVSRMLGG |
| 4853 | sp|Q8XW26|HRCA\_RALSO | MDKRATILLKTLIERYIAEGQPVGSRTLSKYSGLDLSPATIRNVMSDLEEMGFIASPHTSAGRVPTPRGYRLFVDTMLTAGPLDILGMHDRMAQQIAGTIAEQVRAQLASHGSESSQRVIAAAAQTLSNLSQFAGIVMTPRRTHAFRQIEFLRLSETRILLIVVTPEGDVQNRIIHTDTPYTPSQLVEAANYINAHYGGMTFDAVRERLRGELNALQADMTSLMQAAVEAGSSAVSDEDPVVISGERKLLEVEDLSSSMDKLRRLFAVFEQKTGLLQLLDVSSRAEGVQIFIGGESSLVPHEDMAVITAPYEVDGKIVGTLGVIGPMRMAYERVIPIVDITAKLLSSTLSQH |
| 4854 | sp|Q3MCK2|HRCA\_TRIV2 | MQVQLTNRQQHILWATVRHYIATAEPVGSKALVEEYDLGVSSATIRNVMGVLEKSGLLYQPHTSAGRVPSDSGYRIYVDQLITPSLRDTTRTEVLAKEVESALQQHLQWEDWSLEILLQGAAQILASLSGCISLITMPQTNTASVRHLQLVQIETGRIMLILVTDSYETHSKLMDLPPARSETKPDPEVIDRELQIVSNFLNSHLRGRSLLEISTLDWSQLDREFQSYGEFLKNSVAELAHRSAAPAATQIMVRGLAEVLRQPEFSQLQQVKTIIQLLEEEQEQLWRLIFEEPELEDTHKSKVTVRIGAENPLEPIRTCSLISSTYRRGGVPLGSVGVLGPTRLDYESAIAVVAAAADYLSEAFS |
| 4855 | sp|A5GP57|HRCA\_SYNPW | MELLPRRQQEVLQATVHHYVDTIEPVGSKTLVQRFGLQASSATVRSAMGALEQKGLLVQPHPSAGRIPSPRGYRHYVDCLLPKPGAAVHHLEQELTQLSLRWAALDDLLQQLTRRLTDFTGLMSLITLPQPSEQRLHAIRLVPTDERLLVMLVADSSQTHHLNLRLPHGSVHQVAALERWTDDQLHQSGQISWESLPQQLQTCGQALREALHNEEGRFISPSDQSAHVHGVSRLVAQPEFSDSTKVAPLLDLMDCNPAAFIPSGPGHDDWVWIGGEHPHTALSDCSVIQSSYRDGQGGVGQVALVGPMRMAYATARAAVQCVAKHLNHLLS |
| 4856 | sp|B4TCM8|HSLU\_SALHS | MSEMTPREIVSELNKHIIGQDNAKRSVAIALRNRWRRMQLDEELRHEVTPKNILMIGPTGVGKTEIARRLAKLANAPFIKVEATKFTEVGYVGKEVDSIIRDLTDAAVKMVRVQAIEKNRYRAEELAEERILDVLIPPAKNNWGQAEQQQEPSAARQTFRKKLREGQLDDKEIEINLAAAPMGVEIMAPPGMEEMTSQLQSMFQNLGGQKQKPRKLKIKDAMKLLVEEEAAKLVNPEELKQDAIDAVEQHGIVFIDEIDKICKRGETSGPDVSREGVQRDLLPLVEGCTVSTKHGMVKTDHILFIASGAFQVAKPSDLIPELQGRLPIRVELQALTTSDFERILTEPNASVTVQYKALMATEGVNIEFTDSGIKRIAEAAWQVNETTENIGARRLHTVLERLMEEISYNASDLHGQNITIDAEYVSKHLDALVADEDLSRFIL |
| 4857 | sp|Q6HDK5|HRCA\_BACHK | MLTERQLLILQTIIDDFIGSAQPVGSRTLAKKDEITYSSATIRNEMADLEELGFIEKTHSSSGRVPSEKGYRFYVDHLLAPQNLPNDEIVQIKDLFAERIFEAEKIAQQSAQILSELTNYTAIVLGPKLSTNKLKNVQIVPLDRQTAVAIIVTDTGHVQSKTITVPESVDLSDLEKMVNILNEKLSGVPMSELHNKIFKEIVTVLRGYVHNYDSAIKMLDGTFQVPLSEKIYFGGKANMLSQPEFHDIHKVRSLLTMIDNEAEFYDILRHKQVGIQVKIGRENSATAMEDCSLISATYSIGEEQLGTIAILGPTRMQYSRVISLLQLFTRQFTDGLKK |
| 4858 | sp|Q86I25|HSPG1\_DICDI | MATIFDILNSINNKNNNHSNYYSCKRLKSNNNNNNNNFRNNSIKRIDIIPSMDVTITDNNIIIETELAGISKDNIEIDIKDSILTIQGEKKINNNYKQQQQQHSDKTKTNNELPLIEENKKEFRKYLSERSFGNFKRCLDLTSILYQLDLSTIKSNFENGLLIITINKKSDLSNSSFKININ |
| 4859 | sp|Q8Z9V5|IBPA\_YERPE | MRNSDLAPLYRSAIGFDRLFNLLESGQNQSNGGYPPYNVELVDENNYRIAIAVAGFAEQELEITTQDNLLIVRGSHANEPAQRTYLYQGIAERNFERKFQLAEHIKIKGANLVNGLLYIDLERLVPESLKPRRIEIK |
| 4860 | sp|Q1CD74|IBPA\_YERPN | MRNSDLAPLYRSAIGFDRLFNLLESGQNQSNGGYPPYNVELVDENNYRIAIAVAGFAEQELEITTQDNLLIVRGSHANEPAQRTYLYQGIAERNFERKFQLAEHIKIKGANLVNGLLYIDLERLVPESLKPRRIEIK |
| 4861 | sp|A9MWJ7|IBPA\_SALPB | MRNFDLSPLYRSAIGFDRLFNLLENNQSQSNGGYPPYNVELVDENHYRIAIAVAGFAESELEITAQDNLLVVKGAHADEQKERTYLYQGIAERNFERKFQLAENIHVRGANLVNGLLYIELERVIPEANKPRRIEIN |
| 4862 | sp|Q8Z2L8|IBPB\_SALTI | MRNYDLSPLLRQWIGFDKLANALQNSGESQSFPPYNIEKSDDNHYRITLALAGFRQEDLDIQLEGTRLTVKGTPEQPENEPKWLHQGLVMQPFSLSFTLAENMEVSGATFTNGLLYIDLTRNEPETIPPQRIAINERSALNS |
| 4863 | sp|Q5VY09|IER5\_HUMAN | MEFKLEAHRIVSISLGKIYNSRVQRGGIKLHKNLLVSLVLRSARQVYLSDPCPGLYLAGPAGTPAPPPQQQPGEPAAGPPAGWGEPPPPAARASWPETEPQPERSSVSDAPRVGDEVPVATVTGVGDVFQGGEADATEAAWSRVEGPRQAAAREAEGTAGGWGVFPEVSRAARRPCGCPLGGEDPPGTPAATPRAACCCAPQPAEDEPPAPPAVCPRKRCAAGVGGGPAGCPAPGSTPLKKPRRNLEQPPSGGEDDDAEEMETGNVANLISIFGSSFSGLLRKSPGGGREEEEGEESGPEAAEPGQICCDKPVLRDMNPWSTAIVAF |
| 4864 | sp|A4W757|IRAP\_ENT38 | MKNLIAELLVKLAQKEEESKELVAQVEALEIVVTALLRQMAQTDQQALIQSIESALEDARPGSQVPVQDSEMLQQYVKKLLRHPRN |
| 4865 | sp|Q3Z529|IRAP\_SHISS | MKNLIAELLFKLAQKEEESKELCAQVEALEIIVTAMLRNMAQNDQQRLIDQVEGALYEVKPDASIPDDDTELLRDYVKKLLKHPRQ |
| 4866 | sp|C4ZS77|IRAM\_ECOBW | MKWIVIDTVIQPTCGISFSAIWGNMKMIIWYQSTIFLPPGSIFTPVKSGIILKDKEYPITIYHIAPFNKDLWSLLKSSQECPPGESKITNKCLHNSCIIKICPYGLK |
| 4867 | sp|Q93ZF6|AIRP1\_ARATH | MGCCCCLPSIPESSRTIDEHLPLSRATPSSLSNAYSSPLSPPIPLAITNINLQTSPPKLPRTQGNSSEASPGLTQVVPEKKTWHVDDLTDFELKKQYREAIDECPICLEEYEIDNPKLLTKCGHDFHLACILAWMERSEACPVCDKELVLTES |
| 4868 | sp|Q9LQZ2|DRE2D\_ARATH | MSSIEPKVMMVGANKKQRTVQASSRKGCMRGKGGPDNASCTYKGVRQRTWGKWVAEIREPNRGARLWLGTFDTSREAALAYDSAARKLYGPEAHLNLPESLRSYPKTASSPASQTTPSSNTGGKSSSDSESPCSSNEMSSCGRVTEEISWEHINVDLPVMDDSSIWEEATMSLGFPWVHEGDNDISRFDTCISGGYSNWDSFHSPL |
| 4869 | sp|Q5B135|ENO\_EMENI | MPISKIHARSVYDSRGNPTVEVDVVTETGLHRAIVPSGASTGQHEAHELRDGDKSKWLGKGVLTAVKNVNETIGPAVIKENLDVKEQSKIDEFLNKLDGTPNKSNLGANAILGVSLAIAKAGAAEKGVPLYAHISDLAGTKKPYVLPVPFQNVLNGGSHAGGRLAFQEFMIVPDTASSFSEGLRQGAEVYHKLKALAKKKYGQSAGNVGDEGGVAPDIQTAEEALDLITEAIEQAGYTGKIHIAMDVASSEFYKPEEKKYDLDFKNPDSDPSKWLTYEQLADLYKSLAAKYPIVSIEDPFAEDDWEAWSYFYKTSDFQIVGDDLTVTNPLRIKKAIELKSCNALLLKVNQIGTLTESIQAAKDSYADGWGVMVSHRSGETEDVTIADISVGLRSGQIKTGAPARSERLAKLNQILRIEEELGENAVYAGQNFRKSVNL |
| 4870 | sp|M0R3K6|F107A\_RAT | MARAGPEYREWNSELIKPKKLLNPVKASRSHQELHRELLMNHKRGLGMDRKPELQRVLEHRRRNQLIKKKEEELEAKRMQCPFEQELLRRQQRLNQLENPPQREEDHAPEFIKVRENLRRITTLTSEERAL |
| 4871 | sp|Q9SFE4|ERF12\_ARATH | MVKQERKIQTSSTKKEMPLSSSPSSSSSSSSSSSSSSCKNKNKKSKIKKYKGVRMRSWGSWVSEIRAPNQKTRIWLGSYSTAEAAARAYDVALLCLKGPQANLNFPTSSSSHHLLDNLLDENTLLSPKSIQRVAAQAANSFNHFAPTSSAVSSPSDHDHHHDDGMQSLMGSFVDNHVSLMDSTSSWYDDHNGMFLFDNGAPFNYSPQLNSTTMLDEYFYEDADIPLWSFN |
| 4872 | sp|B7H316|GRPE\_ACIB3 | MANEQNEQAQDIQNEQVEQSNEQTQAEGVEQANDVTVESLQAQITKLEENLKLEKARTANAVYEAQKSVERIQRESEKHKETVLEKFAKELLDSVDNLERAIQAAGDEETPVLEGVKLTLKSLLTTLEKFGVVEADTQNGFNADLHQAVGIDPNAKANEIGTVLQKGYTLNGRLLRPAMVMVGQ |
| 4873 | sp|Q0TEM6|GRPE\_ECOL5 | MSSKEQKTPEGQAPEEIIMDQHEEIEAVEPEASAEQVDPRDEKIANLEAQLAEAQTRERDGILRVKAEMENLRRRTELDIEKAHKFALEKFINELLPVIDSLDRALEVADKANPDMSAMVEGIELTLKSMLDVVRKFGVEVIAETNVPLDPNVHQAIAMVESDDVAPGNVLGIMQKGYTLNGRTIRAAMVTVAKAKA |
| 4874 | sp|Q58FF6|H90B4\_HUMAN | MSLIINTFYSNKEIFLQELISNASDALDKIRYESLTDPSKLDGGKELKIDIIPNPRECILTLVNTGIGMTKADLINNLGAIAKSGTEAFMEAFQSCAEISMIGQFGVGFYSAYLVAEKVAITKHNDEEQYSWVSSAGSSFTLHVDHGEPIDRDTKVILHLKEDQTEYLEERWVKEVVKKHPQFIGCLIAVYLEKEPEKEISDDEEEKGEKEEEDKDDKEKPKTEDVGSDEEDDTDKNNKKKTKKIKEKYTDREELNQTKPIWTRNPDDITQEECGEFYKSLTSAWEDHLAVKQFPVEEQEENEQLCVHHVWIMDSFDDLMPEYVGFVREDKENNKKLDEVFSKISWLGIHEDSINWRHLSELLWSHTFQSGDEMTSLSEYVSCMKEAQKSICDIIGECKEQVANSAFVEQEWKKGFEVIYMSEPIDEYCVQQLKEFDGKSLLSVTKEGLELPEDEEEKKIMEESNVKFENLCRLMKEILDKKVERVTISSRLVSSPCRIVTSTYS |
| 4875 | sp|B5ZMX0|GRPE\_RHILW | MTDDTTKNGPDATAADAAADAAAYVENDIAQEEAPQPDALELLKAENGELRDRYLRLAAEMDNLRRRTEREVKDAKSYSVAGFARDMLAVSDNLRRALDAIPAEVKDAADAGLSTLIEGVEMTERAMLSALERHGVRKLEPVGQKFDPNFHQAMFEVPNPDVPNNTVVQVVQAGFSIGERVLRPAMVGVAKGGPKAAEAETNSVFDEKDA |
| 4876 | sp|Q1MPH5|GRPE\_LAWIP | MTDHTPLQPKHEITDQADQDTSAEMLVEEEDKKEIGPNYITEEEAQEIRLRALAEMENFKKRLQKDHDEQIRYAIDNLLTDMLPVLDSLDLAIQYGSNDDACKDILMGVSMTRKLFLDTLKQYGVTVLGEINEPFNPELHEAIAHEEREDIPEGHVSTLHQRGYQLYERLLRPAKVSVSSNKNNSNTNK |
| 4877 | sp|Q7V3Q4|GRPE\_PROMP | MIEKQSDNVENLEDNVSQEVNKNEDSSVIENQTSEDKQTLEVDDENIYAEDLKNTITNNDARLEQLEKEHETLKSQYVRIAADFDNFRKRQSRDQDDLKVQLVSKALTAILPIVDNFERARQQLKPESEEAQTLHRSYQGLYKQLVEVLKQQGVSPMRVVAQQFDPKLHEAVLREPSQEFNEDIIIEELQRGYHLEGKVLRHALVKVSMGPGQQNSQEPEEKDKVEEDIDSENPISEEN |
| 4878 | sp|B1XRU2|GRPE\_POLNS | MTQENQTPPPEQENLAADPAVETTAETPAVKTPEQEVAELNQKIGELQDNFLRAKAEGENIRRRAVEDIAKAHKFAIESFAEHLVPVTDSLYAALNTDAGDAKAFKEGLEITLKQLLSAFEKGRMTEINPAVGDKFDPHHHQAIASVPSEQESNTVVSVLQRGYTVADRVLRPALVTVSAPK |
| 4879 | sp|Q1CV45|GRPE\_HELPH | MKDEHNQEHDHLSQKEPESYQKACACKEQQGEEKQEASEKECEIKEDFELKYKEMHEKYLRVHADFENVKKRLERDKSMALEYAYEKIALDLLPVIDALLGAYKSAAEENKESALTKGLELTMEKLHEVLARHGIEGIECLEEFDPNFHNAIMQVKSEEKENGKIVQVLQQGYKYKGRVLRPAMVSIAKND |
| 4880 | sp|B7NRB5|HCHA\_ECO7I | MTVQTSKNPQVDIAEDNAFFPSEYSLSQYTSPVSDLDGVDYPKPYRGKHKILVIAADERYLPTDNGKLFSTGNHPIETLLPLYHLHAAGFEFEVATISGLMTKFEYWAMPHKDEKVMPFFEQHKSLFRNPKKLADVVASLNADSEYAAIFVPGGHGALIGLPESQDVAAALQWAIKNDRFVISLCHGPAAFLALRHSDNPLNGYSICAFPDAADKQTPDIGYMPGHLTWYFGEELKKMGMNIINDDITGRVHKDRKLLTGDSPFAANALGKLAAQEMLAAYAS |
| 4881 | sp|Q12J95|HFQ\_SHEDO | MAKGQSLQDPFLNALRRERVPVSIYLVNGIKLQGQVESFDQFVILLKNTVSQMVYKHAISTVVPARALHITPTQSSQPGYVQHDDAPAE |
| 4882 | sp|Q6D067|HFQ\_PECAS | MAKGQSLQDPFLNALRRERVPVSIYLVNGIKLQGQIESFDQFVILLKNTVSQMVYKHAISTVVPSRPVSHHSNNPGGSNNYHGSNTTAQQQSQDADDAE |
| 4883 | sp|A5W9T0|HFQ\_PSEP1 | MSKGHSLQDPYLNTLRKEKVPVSIYLVNGIKLQGSIESFDQFVVLLKNTVSQMVYKHAISTVVPARPVRLPSPTDSEHGDSEPGNA |
| 4884 | sp|Q0APP7|HFQ\_MARMM | MSHDKKQNLQDVFLNSVRKTKTPLTIFLVNGVKLQGVVTWFDNFCVLLRRDGLSQLVYKHAISTIMPAAPVSLFEDDKADDDAAEESATD |
| 4885 | sp|A1W582|HFQ\_ACISJ | MSNKGQLLQDPFLNALRREHVPVSIYLVNGIKLQGQIESFDQYVVLLRNTVTQMVYKHAISTIVPGRAVNFSTAEPAADGDNQ |
| 4886 | sp|A6VN08|HFQ\_ACTSZ | MAKGQSLQDPYLNALRRERIPVSIYLVNGIKLQGQIESFDQFVILLKNTVNQMVYKHAISTVVPARSVSHHNNNAQQQYQQQAAQAASAQSNETSSQAE |
| 4887 | sp|Q7N1I2|HICA1\_PHOLL | MKQSEFRRWLEAQGVEVSNGTNHLKLRYQGKRSIMPRHPSQEIKEPLRKAIIKQLGL |
| 4888 | sp|Q5L0D8|HFQ\_GEOKA | MKNTINIQDQFLNQLRKEGIQVTVFLLNGFQLRGYIKGFDNFTVLLEVQGKQQLIYKHAISTFAPERNIHFETEQ |
| 4889 | sp|A3N0Z5|HTPG\_ACTP2 | MSTNQETRGFQSEVKQLLQLMIHSLYSNKEIFLRELISNASDAADKLRFKALSNPALYEGDGELRVRVSFDETLGTLTISDNGIGMNREQVIDHLGTIAKSGTKEFLNSLGTDQAKDSQLIGQFGVGFYSAFIVADKVTVKTRAAGETQAVLWESAGEGDYTVADIEKATRGTDVILHLREEEKEFLSEWRLREIIGKYSDHIGLPVEIQTTEYNEEGKASGQKWEKINKAQALWTRSKNEISDEEYQEFYKHLSHDYNDSLIWAHNKVEGKQEYTSLLYVPAKAPWDLFNRDQKHGLKLYVQRVFIMDDAEVFMPNYLRFMRGLLDTNDLPLNVSREILQENKITASLRAALTKRALQLLEKLAKDDQAKYQTFWNEFGLVLKEGVGEDFANKQQIASLFRFASTQTDSSEQTVSLADYVGRMKEGQKAIYFLTADSYVAAKNSPHLELFNKKGIEVLLLSDRIDEWVVGHLTEFDGKPLQSITKSDLDLGDLADKEQEESQKAQQAEFGSFLERAQSYFGERVKKVVLTHRLTDTPAVVSTDNDEMTTQMAKLFAAMGQKAPEVKYTFELNPDHRMVKKIADLTDETKFNDWIELLFEQALLAERGSLENPAAFIKRMNKLLG |
| 4890 | sp|A7X1N1|HSLU\_STAA1 | MDTAGIRLTPKEIVSKLNEYIVGQNDAKRKVAIALRNRYRRSLLDEESKQEISPKNILMIGPTGVGKTEIARRMAKVVGAPFIKVEATKFTELGYVGRDVESMVRDLVDVSVRLVKAQKKSLVQDEATAKANEKLVKLLVPSMKKKASQTNNPLESLFGGAIPNFGQNNEDEEEPPTEEIKTKRSEIKRQLEEGKLEKEKVRIKVEQDPGALGMLGTNQNQQMQEMMNQLMPKKKVEREVAVETARKILADSYADELIDQESANQEALELAEQMGIIFIDEIDKVATNNHNSGQDVSRQGVQRDILPILEGSVIQTKYGTVNTEHMLFIGAGAFHVSKPSDLIPELQGRFPIRVELDSLSVEDFVRILTEPKLSLIKQYEALLQTEEVTVNFTDEAITRLAEIAYQVNQDTDNIGARRLHTILEKMLEDLSFEAPSMPNAVVDITPQYVDDKLKSISTNKDLSAFIL |
| 4891 | sp|O64564|HS185\_ARATH | MSMIPISNRRRLSPGDRIWEPFELMNTFLDFPSPALFLSHHFPSLSREIFPQTSSSTVNTQLNWTETPTAHVFKAYLPGVDQDEVIAFVDEEGYLQICTGDNKFMSRFKLPNNALTDQVTAWMEDEFLVVFVEKDASSSPPQLPEIEENRNVRVVEITGDDD |
| 4892 | sp|P17879|HS71B\_MOUSE | MAKNTAIGIDLGTTYSCVGVFQHGKVEIIANDQGNRTTPSYVAFTDTERLIGDAAKNQVALNPQNTVFDAKRLIGRKFGDAVVQSDMKHWPFQVVNDGDKPKVQVNYKGESRSFFPEEISSMVLTKMKEIAEAYLGHPVTNAVITVPAYFNDSQRQATKDAGVIAGLNVLRIINEPTAAAIAYGLDRTGKGERNVLIFDLGGGTFDVSILTIDDGIFEVKATAGDTHLGGEDFDNRLVSHFVEEFKRKHKKDISQNKRAVRRLRTACERAKRTLSSSTQASLEIDSLFEGIDFYTSITRARFEELCSDLFRGTLEPVEKALRDAKMDKAQIHDLVLVGGSTRIPKVQKLLQDFFNGRDLNKSINPDEAVAYGAAVQAAILMGDKSENVQDLLLLDVAPLSLGLETAGGVMTALIKRNSTIPTKQTQTFTTYSDNQPGVLIQVYEGERAMTRDNNLLGRFELSGIPPAPRGVPQIEVTFDIDANGILNVTATDKSTGKANKITITNDKGRLSKEEIERMVQEAERYKAEDEVQRDRVAAKNALESYAFNMKSAVEDEGLKGKLSEADKKKVLDKCQEVISWLDSNTLADKEEFVHKREELERVCSPIISGLYQGAGAPGAGGFGAQAPPKGASGSGPTIEEVD |
| 4893 | sp|Q2FZ28|HSLU\_STAA8 | MDTAGIRLTPKEIVSKLNEYIVGQNDAKRKVAIALRNRYRRSLLDEESKQEISPKNILMIGPTGVGKTEIARRMAKVVGAPFIKVEATKFTEVGYVGRDVESMVRDLVDVSVRLVKAQKKSLVQDEATAKANEKLVKLLVPSMKKKASQTNNPLESLFGGAIPNFGQNNEDEEEPPTEEIKTKRSEIKRQLEEGKLEKEKVRIKVEQDPGALGMLGTNQNQQMQEMMNQLMPKKKVEREVAVETARKILADSYADELIDQESANQEALELAEQMGIIFIDEIDKVATNNHNSGQDVSRQGVQRDILPILEGSVIQTKYGTVNTEHMLFIGAGAFHVSKPSDLIPELQGRFPIRVELDSLSVEDFVRILTEPKLSLIKQYEALLQTEEVTVNFTDEAITRLAEIAYQVNQDTDNIGARRLHTILEKMLEDLSFEAPSMPNAVVDITPQYVDDKLKSISTNKDLSAFIL |
| 4894 | sp|A9KYP8|HSLU\_SHEB9 | MSEMTPREIVHELDAHIIGQQKAKRSVAVALRNRWRRMQLDVDFRQEVTPKNILMIGPTGVGKTEIARRLAKLANAPFIKVEATKYTEVGYVGKEVEQIIRDLTDIAIKLTREQQMGKCRQRAEENAEERILDALLPKPKNDWESTETDSSSNTRQVFRKKLREGQLDDKEIDIDVAQPQVGVEIMSPPGMEEMTNQLQSLFKNMGQAPAKRRKMKIKEAFKLLIEEEAAKLVNQEDLKEQAIEMVEQHGIVFLDEIDKICKRGETSGPDVSREGVQRDLLPLIEGCTVTTKHGMVKTDHILFIASGAFQMSKPSDLIPELQGRLPIRVELDALSANDFKRILTEPHASLTEQYIALMNTEGVKVEFSESGIDSIAKAAWQVNERTENIGARRLHTVMEKLMEDISYEASEKSGSAFVIDADYVSAHLDNLVQDEDLSRFIL |
| 4895 | sp|A5F2H8|HTPX\_VIBC3 | MKRILLFLATNLAVVLVLSVVLNIVYAVTGMQPGSLSGLLVMAAVFGFGGAFISLLMSKSMALRSVGGVVIDTPRNEMEHWLLETVRRQANQAGIGMPTVAIYDAPDMNAFATGAKRDDSLVAVSTGLLHNMTRDEAEAVLAHEVSHIANGDMVTMTLMQGVVNTFVIFLSRFIANIVASRDSEEGEGSNMMVYFGVSMVLELVFGFLASFITMWYSRHREFHADAGAAQLVGKHKMIAALERLKMGQESHLEGSMMAFGITGKRSLSELMMTHPPLEKRIAALRNM |
| 4896 | sp|A4TS84|HSLU\_YERPP | MSEMTPREIVSELDSHIIGQDKAKRAVAIALRNRWRRMQLNEELRHEVTPKNILMIGPTGVGKTEIARRLAKLANAPFIKVEATKFTEVGYVGKEVDSIIRDLTDAAVKMVRHQSIEKMRYRAEELAEERILDVLIPPAKNNWGVPDESQEPSATRQTFRKKLREGQLDDKEIEIDLAAAPMGVEIMAPPGMEEMTNQLQSMFQNIAGQKQKPRKIKIKEALKLLIEEEAAKLVNPEELKQQAIDAVEQHGIVFIDEIDKICKRGQTSGPDVSREGVQRDLLPLVEGCTVSTKHGMVKTDHILFIASGAFQVSSPSDLIPELQGRLPIRVELQALTTDDFERILTEPSASLTEQYKALMATEGVTIEFTREGIRKIAEAAWQVNERTENIGARRLHTVLERLMEDISYDASESSGQSITIDAEYVGKHLDELVADEDLSRFIL |
| 4897 | sp|A1JM73|HTPX\_YERE8 | MMRIALFLLTNLAVMLVFGLVLSLTGIQSSSVQGLMIMAGLFGFGGAFVSLLMSKWMALRSVGGEVIEQPRNETERWLLDTVRRQSQQAGIAMPQVAIYQAPDINAFATGARRDASLVAVSTGLLQNMSRDEAEAVIAHEISHVANGDMVTMTLIQGIVNTFVIFISRLIAQVAAGFLSGDRDNEGSSSGNPMVYFAVSMVLELVFGILASIITMWFSRHREFHADAGSARLVGREKMIAALQRLKTSYEPQEAGNLMAFCINGKSKSFSELFMSHPPLDKRIEALRSGEYLK |
| 4898 | sp|Q0RP78|HRCA\_FRAAA | MLEERRLEVLRAIVEDFVLSNEPVGSKALAERHNLGVSPATVRNDMSALEEEGYITQPHTSAGRIPTDKGYRLFVDRLSGVKPLSRAERRAIQSFLEGAVDLDDVVRRSVRLLAQLTRQVAVVQYPSLSSSSVRHIEVVTLGPRRMLMVMITDTGRVEQRIIDSLTPVDEEIAGELRATLNCALAGQRLVDAPEVVATLPDQARPELRPCLATMTGAVLESLVDRPEERLAMAGTANLTRASVDFADSLRSILEALEEQVVLMKLIGSARETGTVTVRIGRETDVDALRSTAVVATGYGRGPFALGGMGVVGPMRMDYPWTMAAVRAVAKYVGELLGAD |
| 4899 | sp|A9R4H2|IBPA\_YERPG | MRNSDLAPLYRSAIGFDRLFNLLESGQNQSNGGYPPYNVELVDENNYRIAIAVAGFAEQELEITTQDNLLIVRGSHANEPAQRTYLYQGIAERNFERKFQLAEHIKIKGANLVNGLLYIDLERLVPESLKPRRIEIK |
| 4900 | sp|B5YX92|IBPB\_ECO5E | MRNFDLSPLMRQWIGFDKLANALQNAGESQSFPPYNIEKSDDNHYRITLALAGFRQEDLEIQLEGTRLSVKGTPEQPKEEKKWLHQGLMNQPFSLSFTLAENMEVSGATFVNGLLHIDLIRNEPEPIAAQRIAISERPALNS |
| 4901 | sp|B1X9B7|IBPA\_ECODH | MRNFDLSPLYRSAIGFDRLFNHLENNQSQSNGGYPPYNVELVDENHYRIAIAVAGFAESELEITAQDNLLVVKGAHADEQKERTYLYQGIAERNFERKFQLAENIHVRGANLVNGLLYIDLERVIPEAKKPRRIEIN |
| 4902 | sp|P0A9W8|IBAG\_SHIFL | MENNEIQSVLMNALSLQEVHVSGDGSHFQVIAVGELFDGMSRVKKQQTVYGPLMEYIADNRIHAVSIKAYTPAEWARDRKLNGF |
| 4903 | sp|P39375|IRAD\_ECOLI | MMRQSLQAVLPEISGNKTSSLRKSVCSDLLTLFNSPHSALPSLLVSGMPEWQVHNPSDKHLQSWYCRQLRSALLFHEPRIAALQVNLKEAYCHTLAISLEIMLYHDDEPLTFDLVWDNGGWRSATLENVS |
| 4904 | sp|B7NV97|IRAD\_ECO7I | MMRQSLQAVLPKISGNKTSLLRKSVCSDLLTLFNSPHSALPSLLVSGMPEWQVHNPSDKHLQSWYCRQLRSALLFHEPRIAALQVNLKEAYCHTLAISLEIMLYHDDEPLTFDLVWDNGGWRSATLENVS |
| 4905 | sp|Q9M022|AIRP2\_ARATH | MRKSFKDSLKALEADIQFANTLASEYPEEYDGGYVQMRLSYSPAAHLFLFLLQWTDCHFAGALGLLRILIYKAYVDGKTTMSLHERKTSIREFYDVLFPSLLQLHGGITDVEERKQKEICDKRYRKKDRTDKGKMSEIDLEREEECGICLEIRNKVVLPTCNHSMCINCYRNWRARSQSCPFCRGSLKRVNSGDLWIYTCSAEIADLPAIYKENLKRLLIYIDKLPLVTSDPNLVPYAPLPR |
| 4906 | sp|P03950|ANGI\_HUMAN | MVMGLGVLLLVFVLGLGLTPPTLAQDNSRYTHFLTQHYDAKPQGRDDRYCESIMRRRGLTSPCKDINTFIHGNKRSIKAICENKNGNPHRENLRISKSSFQVTTCKLHGGSPWPPCQYRATAGFRNVVVACENGLPVHLDQSIFRRP |
| 4907 | sp|Q4J9K4|ARNS\_SULAC | MLMSFILLISTSMILISVFSYVLIALIVLGIVLSLISLLSPRVSYVSSVYLIGLTVYLNPGFSLTQSLINTVPILGEINMLSGLLKTPVTSIISSLFSLALLNLGIKGYEIYLSKHADIVKLDSIIFSQHGLPKQANWNIVVNSEVKLLKSNEKLILSNTPEAKYELCPTLVDHKYYVPNKVTGLAFEGEVIRINYSPVDGVPYEKFRNCFTVFEVEGLPPDTSFVIEINGASLKLKDRKFAKLSLEPLYWKVNEIRISREDEEEIYEPDIKEGLTFRGGTVKINFRRKVIRYKTAKIPSIENWDPGIWVGQEVYGYRVIEVIGLGGNGYVMKVEKNGLLYAMKVLSVNKFTNSLEHFDNLLKESENLEKLSKDPRLVSIYGSFVDKNNIQSALAGDYTSYYKYPPAIIMEFMEGGTLFDLISRVDLVQSKYWQYIVKLVIKEIAKALTFLHKRGYVHLDVKPQNIFLKEKINGEPEVVYKILSSTPGIIKLGDLGSAVRVGEKITQATPAYSPPEQIEAVITGKGAQPSMDNYALGVTLYKLLTMKNLDYVNYLDKAFDEYIKGDPSIAMKYINMAKMSMVNFKPKLPHNTLPELANVVQGTLVVDPKRRLTSYDIVKILEG |
| 4908 | sp|Q7XD99|EXEC1\_ORYSJ | MAAAVSTAPRAPLPAGAVSSSCCSSSSSSASMSRRWDPSPNPSSGSGSRLFLAARRGERLRVRRLAGAAPAPAPRRRVSSVVRCGGGGGGVRSPDDADAGSGERRRGWDALFHDAFQGAVRRWSEYVGSHWPLAPAGKDAGLGKRVESRREEQVRGEVEEEEGKWSWERWKQHFALIEESERLVDELQLQLRTAVYREDFRSAHKLKLAIAATSKNDTVGRAISDLNSAIEEERYMDATYIRDHAGAGLLGWWSGISGNLSDPYGLIIRISAEHGRYVAKSYDTRQLNSDGPGFPIFEIYFAEANGGYNLQAVHLKPDDSDSQQLSNTLREKLGMDSINISSSSFGAKHEDHNEGVNMDDQNSDDSDISAGPAGFKNLPSDSTPVPRVKILKVVPMENVNQDYIIKIFDQMSDEDDENDNPEDEIESSEDIGDGDNVEEAEAASAEDNVDESGDESDIEALISIDFITEDDKDFMSPSSTKAFERMPARLERRDRFSFSFYTEQYSKRQDVEKVQGISKEKVGLRTAQQDDDDLQFDRVKLVGSNRKLSVLQLGIKQHNNKVQQKLYGVTHFSRIQIPVSSDPLTGLYMTASGFDSEILSLQRKFGQWREDDSSEEHRDLQFYEYVEAVKLTGDNLVPAGQVVFRAKVGKHYQLPHKGIIPRELGVVARYKGERRIADPGFQNPRWVDGELLILDGKFIRDGPVIAFFYWTSNFHLFEFFRRLKLPD |
| 4909 | sp|B2IDD9|GRPE\_BEII9 | MTDSTNNQGTSGRPDDDHTTEEVASVFNDPGAQAPAGEPDPFVVLENLQLENAGLKDKVLRTYADMENLRRRSEKEVADAKLYGVTSFARDMLTFADNLHRAIESLPAEAKQAVDGPLKTFVEGIELTERDFLSRLAKYGVKKIEPLGNKFDPNLHEALFEIPDESVVSGTVKQVVEDGYVIGERVLRPAKVGVSRGGPKA |
| 4910 | sp|A1A3P4|GRPE\_BIFAA | MSDFNKDEYLNDLPDMDDLSGQAAPAAASADSAAAAAGATQEGAAQPAAAQSQENGDSAAADGADKAGAADGKADDTLTPLGQAKKEAAEYLEALQRERAEFINFRNRAQKEQERFRQHGIIDVLTALLPALDDIDRIREHSEMDDSFKAVANKIDKAFEKFGVEKFGEKGEDFDPTKHDAILHKPDPNAEKETVDTVVEAGYRIGDRVIRAARVVVASPQN |
| 4911 | sp|B2VEC6|GRPE\_ERWT9 | MSSKEQNTPNEQASDEIETEQAKNQGADTAAEAADQRDERIAQLEAQLAESQGGVRDAQLRAQAEIENIRRRAELDVEKAHKFALEKFSNELLPVIDSLERALEVADKSNPELAAMIEGIDLTMKSLLGAVRKFGVEVVGDTNVPFNPEVHQAMSMMESEEVEPNHVMMVMQRGYTLNGRLLRPAMVAVAKSKG |
| 4912 | sp|A2S567|GRPE\_BURM9 | MENTQENPTDQTTEETGREAQAAEPAAQAAENAAPAAEAALAEAQAKIAELQESFLRAKAETENVRRRAQDDVAKAHKFAIEGFAENLLPVLDSLEAAVGDTSGDLAKVREGVELTLRQLTSALEKGRVAALNPVGEKFDPHLHQAISMVPADQEPNTVVAVLQKGYTIADRVLRPALVTVAQPK |
| 4913 | sp|Q1LPN6|GRPE\_CUPMC | MEEQNQTPTPNTQAAEDAARTPEAGADEVGRLTQQVAELEAKAKEHYDMFLRATAEGENIRRRSQDEVAKAHKFAIESFADNLVPVMDSLQAALADGTGDLGKLREGVELTARQLAAAFERGRIVEVNPVGEKFDPHRHQAISMVPSEQEPNTVVNVLQRGYMIADRVLRPALVTVSAPR |
| 4914 | sp|Q3AF09|GRPE\_CARHZ | MEEKDKEEKVTGENLEPEDKNLEQEDKEEVVGPQEEQQIDEAKNWEEEYNKLLDEHNRLKNQYLRLYADFDNYRKRTQREKEELLKYEGMEFLKKLLPVLDNFERALKEKDTDPQKVIEGVELTHRQLLEILNQHEVKAIEAQGQPFNPELHEALMVEVREDLEENTVIEELVKGYFYKDKVLRPALVKVSKKQ |
| 4915 | sp|B7M983|GRPE\_ECO8A | MSSKEQKTPEGQAPEEIIMDQHEEIEAVEPEASAEQVDPRDEKIANLEAQLAEAQTRERDGILRVKAEMENLRRRTELDIEKAHKFALEKFINELLPVIDSLDRALEVADKANPDMSAMVEGIELTLKSMLDVVRKFGVEVIAETNVPLDPNVHQAIAMVESDDVAPGNVLGIMQKGYTLNGRTIRAAMVTVAKAKA |
| 4916 | sp|Q0SMY9|GRPE\_BORAP | MEKKETKNETEKTNKQDNKNTKSQKKENLNLVNSDKKITELENEISNLKDLYLRKQAEFENFRKRLEKEKDNFVKFANETIMKDVVNFLDNLERAINSSKKSKDFDNLLTGISMIENEILSIFDKKYNLKKFGENGENFDPSRHEAISIEEKEDFKNPEIVEVYQKGYCYNDRILRTAKVKVAQSKN |
| 4917 | sp|A7ZQ54|GRPE\_ECO24 | MSSKEQKTPEGQAPEEIIMDQHEEIEAVEPEASAEQVDPRDEKIANLEAQLAEAQTRERDGILRVKAEMENLRRRTELDIEKAHKFALEKFINELLPVIDSLDRALEVADKANPDMSAMVEGIELTLKSMLDVVRKFGVEVIAETNVPLDPNVHQAIAMVESDDVAPGNVLGIMQKGYTLNGRTIRAAMVTVAKAK |
| 4918 | sp|Q6F148|GRPE\_MESFL | MNNEKELKKEETSVENKEKKVATEEIKKEKKDYKKIIQDLEKQIESCQKEIEFQKSLRNADIANLTKKRNEQEALVRKYGSSNLAEDLIKPIDLLKKVVETPTDIPELQNYLMGFKMIISQIENAFETNGIKAMGVKAGDEFDSSFHEANESLENSGMESNKIVSVISDGYMIHDRVLIHAIVKVAK |
| 4919 | sp|Q2Y6T9|GRPE\_NITMU | MTEENRPQPDQPELTVTSESSVQETGENKARTPEQEGEAMPSLEQLLKKAELDAAEHYDAWLRAKAEGENIRKRAQMDVTNAHKYAIENFSTELLSVMDSLEAALAVENATVENFKSGMELTLKQLTATFAKFNIKQLSPQGEKFDPHLHQAMCMVESELPHNTVVQVMQKGYVLNDRVIRPALVSVSKGKES |
| 4920 | sp|A1WX32|GRPE\_HALHL | MTDNQRQSTTDGQPETRDPAQATAEAAEQTQATQASAAVEGELQDGSADSATGASLSADDGADPEALRQRVEELEKALADAEQKAEEHWDQVLRMRAELENARRRAEKDVDQAKRQGLEKVCGDLLQVKDSLEMGVQAAEDAEADREKLLEGSQLTLKMLNQVFERFEIEEINPQGERFNPDYHEAMAAQPSDEQEPNTVLQVVQKGYRLQDRLLRPALVVVAKKGDGGAGSGGSVDETA |
| 4921 | sp|P25148|GSPA\_BACSU | MRKDEIMHIVSCADDNYARHLGGMFVSLLTNMDQEREVKLYVIDGGIKPDNKKRLEETTLKFGVPIEFLEVDTNMYEHAVESSHITKAAYYRISIPDLIKDESIKRMIYIDCDALVLEDISKLWDLDIAPYTVAAVEDAGQHERLKEMNVTDTGKYFNSGIMIIDFESWRKQNITEKVINFINEHPDEDFLVLHDQDALNAILYDQWYELHPRWNAQTYIMLKLKTPSTLLGRKQYNETRENPAIVHFCGGEKPWNSNTKHPYRDEYFHYMSYTKWNTIGNPAINQ |
| 4922 | sp|P76106|HICA\_ECOLI | MKQSEFRRWLESQGVDVANGSNHLKLRFHGRRSVMPRHPCDEIKEPLRKAILKQLGLS |
| 4923 | sp|P64578|HIGB\_ECOLI | MHLITQKALKDAAEKYPQHKTELVALGNTIAKGYFKKPESLKAVFPSLDNFKYLDKHYVFNVGGNELRVVAMVFFESQKCYIREVMTHKEYDFFTAVHRTKGKK |
| 4924 | sp|Q9KAC4|HFQ\_BACHD | MKSSVNIQDHFLNQLRKENIPVTVFLLNGFQLRGLVKGFDNFTVILETEGKQQLVYKHAISTFAPQRNVQMKTENEPS |
| 4925 | sp|Q5X0L0|HFQ\_LEGPL | MSKNHLLQDPFLNELRKEKVPVSVFLVNGIKLHGIIDSFDQYVVMLKNSITQMVYKHAISTVVPSRMVKIPAEESSGEEEGTVAD |
| 4926 | sp|Q9SCW5|HFA1E\_ARATH | MGTVCESVATAKSSTAVMSSIPPFLSKTYDMVDDPLTDDVVSWSSGNNSFVVWNVPEFAKQFLPKYFKHNNFSSFVRQLNTYGFRKVDPDRWEFANEGFLRGQKQILKSIVRRKPAQVQPPQQPQVQHSSVGACVEVGKFGLEEEVERLQRDKNVLMQELVRLRQQQQVTEHHLQNVGQKVHVMEQRQQQMMSFLAKAVQSPGFLNQFSQQSNEANQHISESNKKRRLPVEDQMNSGSHGVNGLSRQIVRYQSSMNDATNTMLQQIQQMSNAPSHESLSSNNGSFLLGDVPNSNISDNGSSSNGSPEVTLADVSSIPAGFYPAMKYHEPCETNQVMETNLPFSQGDLLPPTQGAAASGSSSSDLVGCETDNGECLDPIMAVLDGALELEADTLNELLPEVQDSFWEQFIGESPVIGETDELISGSVENELILEQLELQSTLSNVWSKNQQMNHLTEQMGLLTSDALRK |
| 4927 | sp|Q6H6Q7|HSFA3\_ORYSJ | MDHNTDPPPTTMVDAAAALLLEPKLEGYDDDGGGEPLQPAPFVSPLDQLMQPPRPLEALLQGPQLPPFLSKTYDLVCEPELDGVISWGHAGNSFVVWDPSAFARDVLPHHFKHNNFSSFVRQLNTYGFRKVHADRWEFAHEDFLRHSKHLLKKIVRRRSSPTQQSGLQPGSSGESGLDPELNTLRREKSALLQEVTRLKQEHLQTIEQMSTLNQRLESAEDRQKQMVSFLAKLLQNPTFLRQLKMHRQQKEIDSTRVKRKFLKHVPHGNIDSGESSSQHTGESNLDFSPTSLDLPATHSDILDLQNFLLEDGDLNLAMLPENIGLDGIEAPDDIGALVQGFDTQEELELGSGVELLEIPPASGPRGQDPTIGRSKGKNVLSPGLDATSSEADCLGSFSDNMGMLSDSMLQTAGKLMDADDDERIWGVDASSALQSSCSGTSQQAYGSLVSDPYLMEMANKPEKFWELDFQALDDGDLQLDKCVIDDPALQQQRGNMNS |
| 4928 | sp|Q2YT45|HRCA\_STAAB | MITDRQLSILNAILEDYVDFGQPVGSKTLIERHNLNVSPATIRNEMKQLEDLNYIEKAHSSSGRSPSQLGFRYYVNRLLEQTSHQKTNKLRRLNQLLVENQYDVSSALTYFADELSNISQYTTLVVHPNHKQDIINNVHLIRANPNLVIMVIVFSSGHVEHVHLASDIPFSNDKLNTISNFVTNKLTEFNQNLQDDIVSFVQSEQEEIFINKLINTMNNHISNQSNSIYMGGKVKLIDALNESNVSSIQPILQYIESNRIAELLQDISSPNINVKIGNEIDDSLSDISIVTSQYHFDETLKGQIAVIGPTAMHYQNVIQLLNRIW |
| 4929 | sp|Q0HZL9|HSLU\_SHESR | MSEMTPREIVHELDAHIIGQKKAKRSVAVALRNRWRRMQLDADFRQEVTPKNILMIGPTGVGKTEIARRLAKLANAPFIKVEATKFTEVGYVGKEVEQIIRDLTDIAIKLTREQQMGKCRQRAEEHAEERILDALLPKPKNDWDSTDSDANSNTRQIFRKKLREGQLDDKEIDIDVAQPQVGIEIMSPPGMEEMTNQLQSLFKNMGQAPAKRRKMKIKEAFKLLIEEEAAKLVNQEDLKEQAIELVEQHGIVFLDEIDKICKRGETSGPDVSREGVQRDLLPLVEGCTVTTKHGMVKTDHILFIASGAFQMAKPSDLIPELQGRLPIRVELDALSADDFKRILTEPHASLTEQYIALMATEGVTIEFAESGIESIAKAAWQVNERTENIGARRLHTVMEKLMEDISYEASDKSGSSFVIDADYVSAHLDNLVQDEDLSRFIL |
| 4930 | sp|A6UEL0|HSLU\_SINMW | MSSFSPREIVSELDRYIIGQKDAKRAVAIALRNRWRRQQLSDELRDEVMPKNILMIGPTGVGKTEISRRLAKLAGAPFVKVEATKFTEVGYVGRDVEQIVRDLVEVGISLVREKRRAEVKAKAHQNAEERVLDALVGTTASPATRDSFRKKLRANELDDKEIEVDVAETGNPGGAFEIPGMPGANIGVLNLSEMFGKALGGRTRKIKTTVKDSYALLVNDESDKLLDNEQIQREAVASAENDGIVFLDEIDKIATREGGIGAGVSREGVQRDLLPLVEGTTVATKYGPVKTDHILFIASGAFHVAKPSDLLPELQGRLPIRVELRALTKEDFRRILTETEASLIRQYKALLETEGVTLDFTEDAIDALAEVAVQLNSNVENIGARRLQTVMERVLDDVSFNAPDRGGQGVTIDADYVRVHVGDLAANTDLSRYIL |
| 4931 | sp|Q2G6M4|HRCA\_NOVAD | MTAPTLTDLTDRAREIFRLVVEGYIASGHPVGSKALAGHGSVNLSPASIRSVLQELQDAGLLAAPHTSAGRMPTEFGLRLFVDGIMQVAEPSAAERAQIERGLVAGGTIESALAAASTALSELSAGAAVVMVPKREPRLVQISFVPLSPLRALAVLVSEDGGIENRVIDLPEPVGPSALEQAGNYLTSRLHGRTLGEAAGVVRAEIAGGRSALDEASADLVQRGLVVWTQDATARPVMVVRGQANLLDETALQDIERVRQLLEELEGAEAIARVLDAAREAQATRIFIGSENRLFSLSGSSVIASPWRDGDGRVVGVVGVIGPTRLNYARVVPMVDFTAQTLGKFIGQDGFSRK |
| 4932 | sp|Q3YZ26|HSCA\_SHISS | MALLQISEPGLSAAPHQRRLAAGIDLGTTNSLVATVRSGQAETLADHEGRHLLPSVVHYQQQGHSVGYDARTNAALDTANTISSVKRLMGRSLADIQQRYPHLPYQFQASENGLPMIETAAGLLNPVRVSADILKALAARATEALAGELDGVVITVPAYFDDAQRQGTKDAARLAGLHVLRLLNEPTAAAIAYGLDSGQEGVIAVYDLGGGTFDISILRLSRGVFEVLATGGDSALGGDDFDHLLADYIREQAGIPDRSDNRVQRELLDAAIAAKIALSDADSVTVNVAGWQGEISREQFNELIAPLVKRTLLACRRALKDAGVEADEVLEVVMVGGSTRVPLVRERVGEFFGRPPLTSIDPDKVVAIGAAIQADILVGNKPDSEMLLLDVIPLSLGLETMGGLVEKVIPRNTTIPVARAQDFTTFKDGQTAMSIHVMQGERELVQDCRSLARFALRGIPALPAGGAHIRVTFQVDADGLLSVTAMEKSTGVEASIQVKPSYGLTDSEIASMIKDSMSYAEQDVKARMLAEQKVEAARVLESLHGALAADAALLSAAERQVIDDAAAHLSEVAQGDDVDAIEQAIKNVDKQTQDFAARRMDQSVRRALKGHSVDEV |
| 4933 | sp|Q8E7Q9|HRCA\_STRA3 | MITQRQNDILNLIVELFTQTHEPVGSKALQRTIESSSATIRNDMAKLEKLGLLEKAHTSSGRMPSPAGFKYFVEHSLRLDSIDEQDIYHVIKAFDFEAFKLEDMLQKASHILSEMTGYTSVILDVEPARQRLTGFDVVQLSNHDALAVMTLDESKPVTVQFAIPRNFLTRDLIAFKAIVEERLLDGSVMDIHYKLRTEIPQIVQKYFVTTDNVLQLFDYVFSELFLETVFVAGKVNSLTYSDLSTYQFLDNEQQVAISLRQGLKEGEMASVQVADSQEAALADVSVLTHKFLIPYRGFGLLSLIGPIDMDYRRSVSLVNIIGKVLAAKLGDYYRYLNSNHYEVH |
| 4934 | sp|P0A3I8|HRCA\_AGRFC | MGFSAPLSKDQASLLDERSREIFRRIVEGYLDTGEPLGSRSLSRLLPMSLSPASVRNVMSDLEELGLIYSPHISAGRLPTQTGLRFFVDAFMQVGDLPADERANIDRQIGPVAGHEQSLEGLLTEASRMLSGMSRGAGLVLTAKNDVILKHVEFIRLEPTKALAVLVGDHNQVENRIIELPAGISSSQLTEAANFINAHLSGQTLQELRGQFQTQRTELQSELGMLAQDLVERGLAIWAGDNEEGKLGRLIVRGRSNLLEGLAGEEDIDRVRMLFDDLERKENLIEILNLAESGSGVRIFIGSENKLFSLSGSSLIVAPYRDEENRVVGAVGVIGPTRLNYARIVPMVDYTAQIMARLSRKQR |
| 4935 | sp|Q82BY5|HRCA\_STRAW | MLSERRLEVLRAIVQDYVGTEEPVGSKALTERHNLGVSPATVRNDMAALEDEGYIAQPHTSAGRIPTDRGYRLFVDKLAGVKPMTGPERRAIQNFLDGAVDLDDVVGRTVRLLAQLTRQVAVVQYPSLTRSTVRHVELLSLAPARVMLVLITDTGRVEQRMIDCPAPFGETSLADLRARLNSRVAGRRFADVPQLVQDLSEAFDPEDRGTVTTVLSTLLETLVEETEERLMIGGTANLTRFGHDFPLTIRPVLEALEEQVVLLKLLGSAGDSGMTVRIGHENAYEGLNSTSVVSVGYGSGDEAVAKLGVVGPTRMDYPGTMGAVRAVARYVGQILAES |
| 4936 | sp|Q7WGH9|HRCA\_BORBR | MDDRARALLKALIERYIADGQPVGSRTLSKVFDLSPATIRNVMADLEELGLIHSPHTSAGRVPTPRGYRMFVDSLLAVRAYQFEPAHIGELLPVSEPSRAVNAAAALLSNLTQFAGVVLTPKRTQIFRQIEFIRLSDKRVLLIIVTPEGDVQNRILSAQRDYTEAELLEAGNFFNVHFSGKSFDAVRRTLSTELAQLRDDISRLMQAAVEAGAEAADDGEAVVISGERKLLDVTDIASDMDRLRKMFSLFEKKTDLLQLLDVSSRAQGVQIYIGGDSQLVPMEEVSVITAPYGVDGKVIGTLGVIGPTRMAYERVIPIVDITARLLSNALSHNQ |
| 4937 | sp|Q3SHA4|HRCA\_THIDA | MLNDRARILLKTLVERYISEGEPVGSRTLSKHAGLDLSPASIRNIMSDLEEMGFVASPHTSAGRVPTPRGYRFFVDTLLTVRPLDQVSVNHLENSLAASDPQRLMTAASTLLSDLSQFAGLVMTPRRNPAFRQIEFLTLSDKRVLLIIVTMEGEVENRVIVTEQSYSAAALTEAANYFNQNFAGHSFDHVRSKLRDELGRMRDDITRLMAAAVDAGTQALDASQDNVVVSGSRKLLDVEELSSNMRSLRRLFDAFEKKTGLLQLLDQSRSAAGVQIFIGGESELLPLDECSLVTAPYSVDGVVVGTLGVVGPTRMAYERVVPIVDVTAKILSSALSQHK |
| 4938 | sp|Q5XAD4|HRCA\_STRP6 | MITQRQNDILNLIVELFTQTHEPVGSKALQRTIDSSSATIRNDMAKLEKLGLLEKAHTSSGRMPSPAGFKYFVEHSLRLDSIDEQDIYHVIKTFDFEAFKLEDMLQKASHILAEMTGYTSVILDVEPARQRLTGFDVVQLSNHDALAVMTLDESKPVTVQFAIPRNFLTRDLIAFKAIVEERLLDSSVIDIHYKLRTEIPQIVQKYFVTTDNVLQLFDYVFSELFLETVFVAGKVNSLTYSDLSTYQFLDNEQQVAISLRQSLKEGEMASVQVADSQEAALADVSVLTHKFLIPYRGFGLLSLIGPIDMDYRRSVSLVNIIGKVLAAKLGDYYRYLNSNHYEVH |
| 4939 | sp|Q6KIH9|HRCA\_MYCMO | MYMKEKRDEILLKIIDLYIKSGQPVSSKQLISEYKLAVSSATIRNIMADLENEGFLEKTHTSSGRIPSISGYKFFAEHSKSKTNELLESKLKEIFSKRYLSIDVTLDEAAKAINEIIGLTLVTSSNVNTEVLKSIQLIELNNYSATIILVTSTGQVANKTIDLTNFQDIKLEDVRIAIRLFKERLINTSLINLREKALALKPILSKYIKNYETILQSFIGNVFEFENKNHVYGKSNIIKQEGIDRLHLTQILDLIENNSIWNMIESKVEEDETLKIDVRNSNISLISKKIFVNNTTKEISVIGSNRMDYISAKSAIALLESFIKPKFSKKNN |
| 4940 | sp|Q8NZM6|HRCA\_STRP8 | MITQRQNDILNLIVELFTQTHEPVGSKALQRTIDSSSATIRNDMAKLEKLGLLEKAHTSSGRMPSPAGFKYFVEHSLRLDSIDEQDIYHVIKTFDFEAFKLEDMLQKASHILAEMTGYTSVILDVEPARQRLTGFDVVQLSNHDALAVMTLDESKPVTVQFAIPRNFLTRDLIAFKAIVEERLLDSSVIDIHYKLRTEIPQIVQKYFVTTDNVLQLFDYVFSELFLETVFVAGKVNSLTYSDLSTYQFLDNEQQVAISLRQSLKEGEMASVQVADSQEAALADVSVLTHKFLIPYRGFGLLSLIGPIDMDYRRSVSLVNIIGKVLAAKLGDYYRYLNSNHYEVH |
| 4941 | sp|B7GKC6|HRCA\_ANOFW | MLSDRQLLILKIIVDDFIRSGQPVGSRTLSKKEQITFSSATIRNEMADLEELGFIEKTHISSGRVPSQKGYRYYVDHLLPPVRLTQKDVQTIQSIFHEQIYELEKLIQKSAQILSDLTNYTTVVLGPSVKEHKLKTIQIIPLNAETAVAIIVTDTGYVEKHVVTLPPSIPPSDVEKMVNILNERLTGVPLEDLTDKIQTEVAHVLREHIQSYDHMLRMISSSLDLNAPAQMFLSGKMNMLRQPEFSDIDKLRGLFNIIEQEKEFYRLLRKHNQQGIQVKIGTENDVEGMENCSLITATYSVGGEKLGTIAVLGPTRMEYSRVISLLNLVATDLSKALTMWYQKD |
| 4942 | sp|Q5M8G6|IMPTA\_XENTR | MADTEEENLQSQIDEVEALTSIYGDEWCVIDEAERIFCITVSDSSNKPTWTLCLQVILPAEYPASSPPLYQLNAPWLRGEDRLTLANNLEEIYLQNLGENILYQWVEKIREFLLGKSQTSDPGPCLKSTSEETDVDDDCEIPAEELNESFKNSMLFGLNDSSGVEEIPPIIHGETITDRRSTFQAHLAPVVSPYQVKLILNKLYENKKIATATHNIYAYRIYIKERNSFIQDCEDDGETAAGKRMLHLMQILDARDVMVVVSRWYGGILLGPDRFKHINNCARNILMEHKYCSAGEESSKQTAKSKKVGKECKKKADH |
| 4943 | sp|C3P8M2|HRCA\_BACAA | MLTERQLLILQTIIDDFIGSAQPVGSRTLAKKDEITYSSATIRNEMADLEELGFIEKTHSSSGRVPSEKGYRFYVDHLLAPQNLPNDEIVQIKDLFVERIFEAEKIAQQSAQILSELTNYTAIVLGPKLSTNKLKNVQIVPLDRQTAVAIIVTDTGHVQSKTITVPESVDLSDLEKMVNILNEKLSGVPMSELHNKIFKEIVTVLRGYVHNYDSAIKMLDGTFQVPLSEKIYFGGKANMLSQPEFHDIHKVRSLLTMIDNEAEFYDILRHKQVGIQVKIGRENSATAMEDCSLISATYSIGEEQLGTIAILGPTRMQYSRVISLLQLFTRQFTDGLKK |
| 4944 | sp|Q6CYV2|IBPA\_PECAS | MRNPDFSPLYRSAIGFDRLFNLLETGQTQSNGGYPPYNVELVDENQYRIAIAVAGFAEQELDITAHDNLLIVKGAHAGEQVARNYLYQGIAERNFERKFQLAEHIQVKGANLENGLLYIDLERIVPEAMKPRRIEIK |
| 4945 | sp|B7M4H6|IBPA\_ECO8A | MRNFDLSPLYRSAIGFDRLFNHLENNQSQSNGGYPPYNVELVDENHYRIAIAVAGFAESELEITAQDNLLVVKGAHADEQKERTYLYQGIAERNFERKFQLAENIHVRGANLVNGLLYIDLERVIPEAKKPRRIEIN |
| 4946 | sp|A4TGM7|IBPB\_YERPP | MRNYDLSPLLRQWIGFDKLASTMQGGQEPQGFPPYNIEKTDDNHYRISLALAGFKQSELDIEVEGPRLTVRGKPTPVEKQVEYLHQGLVRKEFSLTFTLAEHLNVDNAQFENGLLHIDLLRQVPEALQPQRIAIGSATPQERQVLESPEAPDQQ |
| 4947 | sp|P0AAN9|IRAP\_ECOLI | MKNLIAELLFKLAQKEEESKELCAQVEALEIIVTAMLRNMAQNDQQRLIDQVEGALYEVKPDASIPDDDTELLRDYVKKLLKHPRQ |
| 4948 | sp|A7MGG4|IRAM\_CROS8 | MNWRVVDSVVSTDTNSVFTLISSQQSFKLILWYKATFYLSSGDTLSINGASITVNNHPVELTLYRTTVYNARFWQTIVNSNTHCAGNHRQSVGRCGYRRKCKLLYCPFQKH |
| 4949 | sp|C4ZT14|IRAD\_ECOBW | MMRQSLQAVLPEISGNKTSSLRKSVCSDLLTLFNSPHSALPSLLVSGMPEWQVHNPSDKHLQSWYCRQLRSALLFHEPRIAALQVNLKEAYCHTLAISLEIMLYHDDEPLTFDLVWDNGGWRSATLENVS |
| 4950 | sp|Q06554|IRC20\_YEAST | MSAVGALLAREYNVTAEKCDFFLENGSFDSVIAALPALNQEQETVTQKVSKNGKELINVASVNIEIPERISLSNNGRQLFKFIVDIEILPCENDNEATLVVSSDSVSLFQIGFKMENNSKIAVDKQLPLILDICAHKNQERALRNQLENRKSLERKPSRKRRKKNSNVNDPEKLLKSRIHELSLSYKDFECSPVVFRYNDSSLTWVLSFNLKLKFLNNKFNRFSVEANQILDLTFSNRDENEFERYHKHSHIHSNFIQKQFISQILEYSKDRLSKIKPFLPQSIPDLKVNLLPFQRESVEWMLIKEGHGNSLSDTPTVIDEVGLIDFMNEYYAYGYELIARSPDEVGPSLLWNKLTGYILTTEDAAHLYNQYRKERLSGDYPVCAKGVLAEEMGLGKTIEILSLILLNRRKLKDSEATFIDDENRTITKTKTTLIICPNAILKQWLEEIELHANSLKWYTYRGYNEIMKDCKTVDEAVQQLCQYDIIVTSYNIIATEVHHAEFNRSIRSRRLKSPKYDYSSPLALMQFYRIILDEVQMLRSSSTYSAKCTSLLHRIHTWGVSGTPIQNIYNFRMIMSYLKLHPFCDEVDFIRTLQEEIKLRNEAKDYTSNDFVCQLKGVRFSIKDCMNIFYRYDLCIRHSKANVASQIHIPRQHNFIIPLEFAPIEWDNYLNLWNNFLELSGYNSDGSGSPRVSNAFLNEWLSRLRYICCHALFPEILSTRQKRLHGHLSRISNIDDILISMRMDAFDSLIGYYRERFHLSIKQAQYELEISNTPAKALESFIKIRDDLMIHIRQKFNVEDPFDKSLNLSEDEDEHMDERFGEKETSSGDESDREINGAKNHDNHNNDGMLSNHLKKKGLRAMMNLLHDCYFFLGSVYYNLGTRKLEEADDKHRKEKTEEVVYSDVFPKNELEEIEENRLLEQENYANAEILRKSILSSEARKVDMTIKMARTKFAPMTSNIPLRLINIEFDHKNDYSSNLAVSRCFKSLSKLIEGLNEQTKNFNELLDELLIIIYEPVHRTEDDDSTNKIIGNEEYSTSIDSQDKIFSLLGCLEIILQNRDNILTSESEVKIPKHLVPEGSIISKYQKQLLNSLRLISGTPLRTVFDELKNSRIVRRISSSNESESTIQNFEDYLLQYEVESKSLFKYNKQVRESLKILGSIYNAKTEYYSQLQRISDSLVSLHSLSAPQLSHLIRTINKSLGGTLDAKINNIESRLIYLKNLSRLKDTLNDNQILSCSICLGEVEIGAIIKCGHYFCKSCILTWLRAHSKCPICKGFCSISEVYNFKFKNSTEKREKEIQEPRREGADSSQDNSNENSIISNMSEVEKLFGNKYEQFHQINEVHQIHIKESFGAKIDFVIKLISYLRLKSEQENADPPQVILYSQKTEYLKVIGKVLKLYHIEHLACLSNTANVGETINNFKRQPSVTCLLLNVKTLGAGLNLINAKHIFLLDPILNNSDELQAMGRNNRIGQDEETFVWNFMIRNTVEENILRYKCILEERKRKEKSKKGDKYDEAQDETDNEESDDAKFEISVVDQEVSNEHLWNCFFHGSD |
| 4951 | sp|Q9ZNV8|AHP2\_ARATH | MDALIAQLQRQFRDYTISLYQQGFLDDQFTELKKLQDDGSPDFVSEVLSLFFEDCVKLISNMARALDTTGTVDFSQVGASVHQLKGSSSSVGAKRVKTLCVSFKECCEAKNYEGCVRCLQQVDIEYKALKTKLQDMFNLEKQIIQAGGIVPQVDIN |
| 4952 | sp|Q9AP35|ECTA\_SPOPA | MFWVISKQGSTAVAEQEETLVFRVPTEDDGKAIWNLINYPGVLDLLSSYSYFMWAKFFDQTSVVGETNEQIVGFYIGLHTTEYGPDTLFYLASCSDETQRQKGLASRMLQAILHRYAWRNIRYLEATVGTSNEAPEALFQKLSRDLKTAYHVTEFFTEDQFPGKGHEDERLFKIGPFQQV |
| 4953 | sp|C0HK95|FAU\_DROME | MVYESGFTTRRTYSSRPVTTSYAVTTPRLDLCTDRPGSHRSRASSDYSYTSKSSVEKSSYDSSNPHSYRPERSTYTSTVEKTSRSGPGGSYNYSTERTSTTGAGPGGYSYSSTTSGNLPGGTKYRHFSYHV |
| 4954 | sp|Q07651|FMP45\_YEAST | MIFKRFVNLLVFLFLLGAGLLTFFLILSGGRESGTLKNFYWLQADTNGFNSAPSTTRWYNYNWCGYEDGQLANCSSRAPAKPFSPRDNFGNSVNLPSSFRNNRDTYYYLSRVGWAMLLISLFFIVLALVPGFLATFLPFKAVPVLYCVLSWLAFFFIILAACLYTGCYVKARKTFRNSGRSARLGPKNFAFIWTSVFLMLVNAIWSTIFSATHKAHSTYSDHDMYAQYESPSVDTGAQMEKSTYNSGATDGAGPITAAPVVGQPQPTTTTTPAGNGKFFQKLKTRKQVPSAELEPAGDGGLAGPVTVRD |
| 4955 | sp|Q72DW7|GRPE\_DESVH | MSRDTTTPDDAAAFEAAATTSGTATSAGENIPGDLLPLCREHICPVCPEKAQADEQRLRALADLENTKKRLQREKDEQVRYAAETVLADLLPTLDNLDLALQYGQGSAECRNMLVGVEMTRKLLLEALGRHGLEAVGEAGEPFTPELHEAMSHEDRGDMPADHVATVMMKGYRLKERLLRPAKVTVSRTPG |
| 4956 | sp|A5EYG2|GRPE\_DICNV | MHDPKESLETNIQETESQEKLPETPIIEEEPILTLPDDQINQLQQEVAELKDQLIWQKAENENLRKRQARELENAYKFASERLLKDLLPVIDSLNLGLQAALDTENEAVKQFITGSEMTLTMFQETLARHGIEEINPVGEKFNPELHEAVTMTPSEAHEPNTVIQVTQKGYLLNGRTVRAAQVIVSK |
| 4957 | sp|B0T367|GRPE\_CAUSK | MTDEQTPAEDVAFEADDASQEIEALKLEVAALKDQALRYAAEAENTKRRAERESNDARAYAIQKFARDLLGAADNLSRATAMSPRDSQDPAVTNYIIGVEMTEKELQGAFERNGLKKIDPAKGEKFDPHLHQAVMEQPSTEVAAGGVLQVLQAGYELMGRLVRPAMVAVAAKGSTGPGAPAEPAAAPNPYASNGADTGGSFDTKA |
| 4958 | sp|B3R450|GRPE\_CUPTR | MEDQKQTPSNQTATPAGDEATSTAAASPETGAPDTAAAAVDDVAAQLAALEAKASEHYDLYMRAVAEGENIRRRAQEDVAKAHKFAIENFADNLLPVMDSLQAALADGSGDIAKLREGVELTARQLAAAFERGKIVELNPVGEKFDPHRHQAISMVPADQEPNTVVTVLQRGYTIADRVLRPALVTVAAPK |
| 4959 | sp|Q7N1U7|GRPE\_PHOLL | MSSKEQKMPDEQVSEDMEVVSEQQNSADKAEASETESVVDPRVAELEEQLKQAQQRERDAILRAKAEVENIRRRTEQDVEKAHKFALERFANELLPVIDNLERALEVADRTNTEIAPMVEGIELTLKSFLGAVGKFGIEVVGDTNVPFNPEIHQAMTMMESDQHEPNHVMMVMQKGYTLNGRLLRPAMVAVSK |
| 4960 | sp|A6TCM1|GRPE\_KLEP7 | MSSKEQKTPEGQAPEEIITEQHDDVEAVEPEVSAEQVDPRDEKIANLEAQLAEAQKREREVMLRAKADEDNLRRRTEQDIEKAHKFALEKFVNELLPVIDSLDRALEVADKANPELAPMVEGIELTLKSMLDVVRKFGVEVIADTNVPLDPNVHQAIAMVESEDVAAGNVLAVMQKGYTLNGRTIRAAMVTVAKAK |
| 4961 | sp|Q1H3B7|GRPE\_METFK | MQHEDKTPEQQENKTPETELQQENAPATPQEAGAAGSIDDRIAELEAKLAEQQAAVLYAKAEGENIRRRAAEDIEKARKFALEKFSSELLAVKDSLDAALNVGSATLESYRDGVELTAKQLTAVFEKFSIVEINPVGEKFDPNKHQAIGTVESEAESNTVVNVLQKGYTLNDRVLRPALVMVAK |
| 4962 | sp|Q9ZW30|GSTU1\_ARATH | MAEKEESVKLLGFWASPFSRRVEMALKLKGVPYEYLEEDLPNKTPLLLELNPLHKKVPVLVHNDKILLESHLILEYIDQTWKNSPILPQDPYEKAMARFWAKFIDDQILTLGFRSLVKAEKGREVAIEETRELLMFLEKEVTGKDFFGGKTIGFLDMIAGSMIPFCLARLWKGIGIDMIPEEKFPELNRWIKNLEEVEAVRGCIPPREKQIERMTKIAETIKSA |
| 4963 | sp|A3PJP5|HFQ\_RHOS1 | MAADKQNLQDAFLNHVRKAKVPVTIFLINGVKLQGVITWFDNFCVLLRRDGQSQLVYKHAISTIMPGQPINLYEGDD |
| 4964 | sp|A6WSV2|HFQ\_SHEB8 | MAKGQSLQDPFLNALRRERVPVSIYLVNGIKLQGQVESFDQFVILLKNTVSQMVYKHAISTVVPARPFNVTGHQNAQGGYGAQDDAPSGE |
| 4965 | sp|B2TIB6|HFQ\_CLOBB | MNKQQNNLQDIFLNSARKNKMPVTIYLSTGFQINGTVKGFDSFTVILDSEGKQMLIYKHAITTVTPEKPILFVDNES |
| 4966 | sp|B0UTF5|HFQ\_HISS2 | MAKGQSLQDPYLNALRRERIPVSIYLVNGIKLQGQIESFDQFVILLKNTVNQMVYKHAISTVVPARSVSHHNSVQHHHIVQTQEMQAEVLAENQTE |
| 4967 | sp|C4L1C0|HFQ\_EXISA | MKASYNIQDHFLNQLRKEMVPTTVFLVSGFQIRGVIKSFDNFTVIVESEGRQQLIYKHAISTFSPARNVTLYEPDAVEVTEG |
| 4968 | sp|Q9ZUH8|HHP3\_ARATH | MKRRRSAKKSPAMVTVTDWKGLDCGEETRIVRRLMKFEDLPEYLKDNEFIHNHYRCQWSLKDTFLSAFSWHNETLNIWTHLIGFGIFLWMTVVSCLETTEISLAGVFNGMAGVRICLSSNQTLLHDSNVTHHISCLTSQGEAIPKWPWLVYLVGAMGCLICSSVSHLLACHSKRFNVFFWRLDYAGISLMIVASFFAPIYYAFSCHPNFRLLYLSSISILGLLAIITLLSPALSTPRFRPFRANLFLAMGSSAVIPATHVLCLYWDHPNVFIALGYEIATALSYFVGATFYVSRVPERWKPGAFDMAGHSHQIFHVFVVMGALAHCVTTLLIIDFSRASPSCGF |
| 4969 | sp|A3MK69|HFQ\_BURM7 | MSNKGQLLQDPFLNALRKEHVPVSIYLVNGIKLQGNIESFDQYVVLLRNTVTQMVYKHAISTVVPARPVNFHPDAEAAS |
| 4970 | sp|A0Q6S3|HFQ\_FRATN | MSRISSLQDPFLNALRKEKVSVSVYLVNGIKLQGQVEAFDQFCIVLRNTVNQMVYKHAISTIVPAKSVRMVYSSFNPYHQNSNDEQDENVDDIHSDDLEIQENEGNIHE |
| 4971 | sp|Q0STR1|HFQ\_CLOPS | MNKSINNLQDIFLNNARKERIPVTIFLVNGVQLKGIVKGFDSFTVVLDSDGKQQLVYKHAISTVSPAKPILFNSAQVFDN |
| 4972 | sp|Q5XEP2|HSOP2\_ARATH | MADEAKAKGNAAFSSGDFNSAVNHFTDAINLTPTNHVLFSNRSAAHASLNHYDEALSDAKKTVELKPDWGKGYSRLGAAHLGLNQFDEAVEAYSKGLEIDPSNEGLKSGLADAKASASRSRASAPNPFGDAFQGPEMWSKLTADPSTRGLLKQPDFVNMMKEIQRNPSNLNLYLQDQRVMQALGVLLNIQIRTQQAGDDMEIGEEEMAVPSRKEPEVEKKRKPEPEPEPEPEFGEEKQKKLKAQKEKELGNAAYKKKDFETAIQHYSTAMEIDDEDISYITNRAAVHLEMGKYDECIKDCDKAVERGRELRSDYKMVAKALTRKGTALGKMAKVSKDYEPVIQTYQKALTEHRNPETLKRLNEAERAKKELEQQEYYDPNIGDEEREKGNDFFKEQKYPDAVRHYTEAIKRNPKDPRAYSNRAACYTKLGAMPEGLKDAEKCIELDPTFLKGYSRKGAVQFFMKEYDNAMETYQKGLEHDPNNQELLDGVKRCVQQINKANRGDLTPEELKERQAKGMQDPEIQNILTDPVMRQVLSDLQENPAAAQKHMQNPMIMNKIQKLISSGIVQMK |
| 4973 | sp|Q657C0|HFA6B\_ORYSJ | MLKPQTPRARRAAHPNSHMASSSSSSSLCRLLIPRPTTRRFSGGGGEGGMAAAAPVKREVKPEAGEGWGGGDLGVVPPPPRPMEGLGEAGPAPFVAKTYEMVADAATDAVVSWGPGGSGASFVVWDPHALAAGVLPRFFKHANFSSFVRQLNTYGFRKVTPDRWEFANEAFLAGQKHLLKNIKRRRVSKPLVDSQLRNKASVVFGQPEAPGEVVSLKRDRAALRAEVIMLKQQYNACKSQLIAMEEMVRNIERRQQQTIGFFAKVLTNPAFVQQVLLNYVNKNGLRGAAKRQRLMENEEQHADSPLNKGMEAASVMEADVSPGSTGCGTVGKVETTPMCNFQNIENMCDDVWEELDALPETGMEQEEKAGIGSFDVEEFVGRPCGWVDDCPYLVEPMQFVEH |
| 4974 | sp|A8YXJ3|HSLO\_LACH4 | MSDYLVKSIDKTKNLRLLTITAKDVVGEAQKRHDLWSASAAVLGRTLVGSLLLAGAELTDKEELTVRLLGNGPVGPTIVTAMSDLKVKGYVKNPHIALSPKKNGHIDVKKAVGQGMLEVTKDLGLKEPYTGQVPIVSGEIAEDFAYYLTKSEQIPSAVGLSVFVNPNNSIGEAGGFMLQALPGASDALITETIKRIKALPALSTEFLDGMTPEDLARKILGTDCKILEKDDVAFSCDCSKEKYAGILETLKSSQLKAMINEDHGAELTCNFCGNKYHYTENELKDILAKKKEEKDY |
| 4975 | sp|A8AJX0|HTPG\_CITK8 | MKGQETRGFQSEVKQLLHLMIHSLYSNKEIFLRELISNASDAADKLRFRALSNPDLYEGDGELRVRVSFDKDKRTLTIADNGVGMNRDDVIDHLGTIAKSGTKSFLESMGSDQAKDSQLIGQFGVGFYSAFIVADKVTVRTRAAGDKPENGVFWESAGEGEYTVADITKDDRGTEITLHLREGEDEFLDDWRVRSIISKYSDHIALPVEIEKQEEKDGETIVSWEKINKAQALWTRNKSEIKDDEYNEFYKHIAHDFTDPLTWSHNRVEGKQEYTSLLYIPSQAPWDMWNRDHKHGLKLYVQRVFIMDDAEQFMPNYLRFVRGLIDSNDLPLNVSREILQDSTVTRNLRSALTKRVLQMLEKLAKDDAEKYQTFWKQFGLVLKEGPAEDHANQEAIAKLMRFASTHTDSSAQTVSLEDYISRMKEGQEKIYYITADSYAAAKSSPHLELLRKKGIEVLLLSDRIDEWMMNYLTEFDGKAFQSVSKVDESLEKLADEVDESAKEAEKALTPFVERVKTLLGDRVKEVRLTHRLTDTPAIVTTDADEMSTQMAKLFAAAGQAVPEVKYIFELNPDHVLVKRTADTQDEAQFNEWVELLLDQALFAERGTLEDPNQFIRRMNQLLVS |
| 4976 | sp|A3MHX8|HTPG\_BURM7 | MTQQTMSFQAEVKQLLHLMIHSLYSNKEIFLRELVSNASDAADKLRFEALENNALYESDPNLRIRLSFDKAARTITIDDNGIGMSRDEAIANLGTIARSGTKEFFSKLSGDQQKDAALIGQFGVGFYSGFIVADRITVETRRAGLPASEGVRWESAGEGDFQVDTIERAARGTTITLHLREGEDELLSSYRLKSIVQKYSDHVALPILMKKEEWDQEKGEMVEKDEDETINQASALWTRAKSEVTDEQYKQFYQHVAHDHQDPLAWTHNRVEGRSEYTQLLFVPSHAPFDLWNRDYRGGLKLYVKRVFIMDDAEQLLPQYLRFIKGVVDSSDLPLNVSREILQESRDVKAIREGVTKRALSMLEELANAEDDAGKEKYKTFWSAFGQVLKEGVGEDHANRERVAKLLRFASTHGDTDAQDVALADYVARMKPEQTKIYYVTADTWQAAKNSPHLEVFRKKGVEVLLLTDRVDEWMLSFLHEFDGKPLASVARGDLDLGALNDDEKKAQEETGEAMKPVVDKMKETLGEKVKDVRVTFRLTDSPSCLVADDNDMSGYLQRMLKAAGQSAPSFQPILEINPEHPLVKALKADGADFGDWCHLLFDQALLAEGGALEDPASFVKRTNALLLSRAA |
| 4977 | sp|Q1BSM8|HSLU\_BURCA | MSTMTPAEIVSELDKHIIGQAKAKKAVAVALRNRWRRQQVAEPLRQEITPKNILMIGPTGVGKTEIARRLAKLADAPFIKIEATKFTEVGYVGRDVDSIVRDLIEISVKQTREAEMRKVRSKATDQAEDRILDILLPQPRAVGFGGNAEHANDDNNATRQTFRKRLREGQLDDKEVELDLEQPSVGMDIMAPPGMEEMTEQIRSMFSNLGSGKKQRRKVKIKEALKLLTDEEAAKMLNEEEVKTKAVQNVEQNGIVFLDEIDKITSRNNEGSGGEVSRQGVQRDLLPLVEGTTVNTKYGMVKTDHILFIASGAFHLAKPSDLIPELQGRFPIRVELDSLSVEDFEAILDATDASLVKQYQALLATEDVQLEFAADGIRRLAEIAFAVNEKTENIGARRLYTVIEKLLEEVSFSAGNHAGERVTIDAKYVDRALGEVAQDEDLSRYVL |
| 4978 | sp|Q3JXA4|HSLU\_BURP1 | MSTMTPAEIVSELDKHIIGQAKAKKAVAVALRNRWRRQQVAEPLRQEITPKNILMIGPTGVGKTEIARRLAKLADAPFIKIEATKFTEVGYVGRDVDSIVRDLIEISVKQTRETEMRKVRSKATDLAEDRILDVLLPQPRAVGFGASAEHANDDNNATRQTFRKRLREGQLDDKEIELDIEQPAVGMDIMAPPGMEEMTEQIRSMFSNLGSGKKQRRKVKIKEALKLLTDEEAAKMLNDEEVKTKAVQNVEQNGIVFLDEIDKITSRNHEGGGGEVSRQGVQRDLLPLVEGTTINTKYGMVKTDHILFIASGAFHLAKPSDLIPELQGRFPIRVELDSLSVKDFEAILVATDASLVKQYQALLATEDVKLEFADDGIRRLAEIAYAVNEKTENIGARRLYTVIEKLLEEVSFAAGNHAGQSVTIDSAYVDHALGEVSKDEDLSRYVL |
| 4979 | sp|Q9SSQ8|HS26M\_ARATH | MALARLALRNLQQKLSPSLMGQSCERGLVGNRHNPMKLNRFMATSAGEQEDKMNTEVSVSEKKSPRQNFPRRRGRKSLWRNTDDHGYFTPTLNEFFPPTIGNTLIQATENMNRIFDNFNVNPFQLMGQVKEQDDCYKLRYEVPGLTKEDVKITVNDGILTIKGDHKAEEEKGSPEEDEYWSSKSYGYYNTSLSLPDDAKVEDIKAELKNGVLNLVIPRTEKPKKNVQEISVE |
| 4980 | sp|A7GRF9|HSLU\_BACCN | MHLHFTPRQIVEKLDQYIIGQKDAKKAVAVALRNRYRRSKLPEDLRDEIAPKNILMIGPTGVGKTEVARRMAKLVGAPFIKVEATKFTEVGYVGRDVESMVRDLVETSVRIVKEEMMVKVKDKAEEQANQRLVEILVPSPQKQTGFKNPLEMLFGGNQNVNQTSESQDDTEIQKKRQEVEKQLAAGLLEEEIVSIEVTEQQSSMFDMLQGTGMEQMGMNFQDALGSFMPKKTKKRKLSVKEARKVLTNEEAQRLIDMDEVTQEAVYRAEQLGIIFIDEIDKIAGKQSNSVDVSREGVQRDILPIVEGANVATKYGSVKTDYILFVAAGAFHMSKPSDLIPELQGRFPIRVELTKLSVDDFVKILIEPDNALVKQYAALLATEGIEIEFSDEAIRKIAEIAYQVNQDTDNIGARRLHTIMEKLLEDLSFEASEITLEKVTITPQYVEEKLATIAKNKDVSQFIL |
| 4981 | sp|Q1LT59|HSPQ\_BAUCH | MIASKFGIGQQVRHKLFGYLGVIIDVDPEYSLDKPYIDKIAADDSLRTAPWYHVVMEDEDGKPVHTYLAEAQLGYEAFLEHPEQPTLDELAESIRLQLQAPRLRN |
| 4982 | sp|Q31F72|HTPG\_HYDCU | MSHTETHAFQTEVNQLLKLMIHALYSNKEIFLRELVSNASDALDKLRFESVSNDALSEGESELAIQVGFDKEARTVSIIDNGIGMTRDEVIANIGTIANSGTKKFLENMTGDQAKDSHLIGQFGVGFYASFIVADKVTLTTRKAGDDKSEGTRWESAGEGEYTLETVEKETKGTEITLHLKEDMDEFLDDFRLKSIITTYSDHINFPIKMWQVKLDEEGKETEEKSLEQVNKATAIWTQPKSELSDEDYNNFYQTISHDYENPLAHIHNKVEGTLEYTSLLYLPKKAPFDLYDRDRRYGLKLYVKRVFIMDDAEHLMPTYLRFVRGVIDSNDLPLNVSREILQSNRVVDKIRSASVKRVLDQLAKMAKAEDQSDYETFWDQFGNVMKEGVIEDFANKDKIAKLLRFSSTHESSGPTQRVSLQDYIDRMGEGQEAIYYITADTYAAATGSPHLEMFRKKGIEVLLLTDRIDEWLVSHLTEFEGKQLKSVTSADLKEFDEEADKELSEEDKKAREALTEKVKKAIEDQVSDVKITHRLTDSPACVVSAEGDISAHMARMMEQMGQAMPKQKPVLELNPDHALVKKLDSLEDEPKVKEWSLFLLEQAQLAEGDQLEKPADFIKRMNALLSEVI |
| 4983 | sp|Q67X83|HS26M\_ORYSJ | MASTVALKGRPLATLLRQLLAADAPPAATGRPVAAAPAASGKPVTAPAAATATNAASRRLYNTEGAPLRRYDVVDESGTDSGDEYDATDDGRRLTVPFFFSASDVLDPFGAPTSLGRLLALMEDAAVATAAAPGTNGLATAAARRGGWWVAKEDDDAVHLKVSMPGLGKEHVKVWAEQNSLVIKGEGEKDPEDDADAAPPRYTRRIELPADAFKMDKIKAEMKNGVLRVAVPKLKEEERKDVFQVNVE |
| 4984 | sp|Q84J50|HS177\_ORYSJ | MSLIRRGNAFDPFSLDLWDPVDGFPFGSGGSSSSSGSLFPRANSDAAAFAGARIDWKETPEVHVFKADVPGLKKEEVKVEVDDGNILQISGERSREQEEKSDKWHRVERSSGKFLRRFRLPENTKPEQIKASMENGVLTVTVPKEEPKKPDVKSIQISG |
| 4985 | sp|Q550E5|HSPGA\_DICDI | MATIFDILNTHNNNNNFENCKRQCSTNKSNKTIIDILPSMDVTMTNDKLIIETELAGISKDHIEIDIKDSILTI |
| 4986 | sp|Q9ZDQ3|HSPC1\_RICPR | MLKYIPAIFAIILSSNIAIASKNYDYISLTPLRHVADLIDSHITNIDHLFNNRLTFYESSSLKSKFITKDKQYIIVMEVPGFDKSQIKVKLNGKKLFIAGNIEDKNKANDSDNYMNKNFNYVISLYEDVDQKSISARLKNGILTIILPRIEVKEQDSREITIN |
| 4987 | sp|B3PI65|HSLU\_CELJU | MSSMTPREIVHELDKHIVGQQDAKRAVAIALRNRWRRMQLPADMRSEVTPKNILMIGPTGVGKTEIARRLAKLANAPFIKVEATKFTEVGYVGRDVESIIRDLVDVAIKLRREQAMKAVQYRAAEAAEERILDVLLPPARDTSEEESKHESSTRQIFRKKLREGQLDDKEIEIDVAAASVGVEIMAPPGMEEMTSQLQNMFSSLGRERTKKTKMTVKKAFKQLQDEEAAKLVSEEDIKTQALETVEQNGIVFIDEIDKVARRGNVSGADVSREGVQRDLLPLIEGCTVSTKHGMVKTDHILFITSGAFHLSKPSDLIPELQGRLPIRVELQALTPDDFERILTEPKASLTEQQQALLKTEGVDIQFTQDGIRRIAETAFDVNERTENIGARRLHTILERLLEDVSFDAGNDTSSIRIDGAYVDAHLGELAKNEDLSRYIL |
| 4988 | sp|P46254|HS22M\_PEA | MASSLALKRFLSSGLLSSSFLRPVASSASRSFNTNAMRQYDQHSDDRNVDVYRHSFPRTRRDDLLLSDVFDPFSPPRSLSQVLNMVDLLTDNPVLSAASRRGWDARETEDALFLRLDMPGLGKEDVKISVEQNTLTIKGEEGAKESEEKEKSGRRFSSRIDLPEKLYKIDVIKAEMKNGVLKVTVPKMKEEERNNVINVKVD |
| 4989 | sp|C6C0P1|HSLU\_DESAD | MSNLTPREIVSELDKFIIGQSDAKRMVAIAMRNRWRRQQLPPELRDEIAPKNIIMMGPTGVGKTEIARRLAKLAGCPFFKVEATKFTEVGYVGRDVESMVRDLMEIGINLVRKEEMEKVKVKAEKHAEDALLDILLPSSKPKQPGMGFFNPAAPEEQEEQPSADQSSTREKFRKMWREGKLDDREVEIEVSVQGGGVEIMSMPGMEDMGMQVNDMIGKMFPNKKKMRKVKIREAYDILIQQESDKLIDMDNVAELARERVEQGGILFLDEIDKIAGNQEGGGSANVSREGVQRDLLPVVEGCVVNTKYGMVKTDHILFISAGAFSYAKPSDLIPELQGRFPLRVELTSLDKDDFYRILTEPQNALTVQYKALLETENLNIDFSREALEEVALNAQKFNEETENIGARRLYTIMEKILSDLSFEAPDRSGDSIVIDKEYVQKQLQDVTEDRDLSRYIL |
| 4990 | sp|P48741|HSP77\_HUMAN | MQAPRELAVGIDLGTTYSCVGVFQQGRVEILANDQGNRTTPSYVAFTDTERLVGDAAKSQAALNPHNTVFDAKRLIGRKFADTTVQSDMKHWPFQVVSEGGKPKVRVCYRGEDKTFYPEEISSMVLSKMKETAEAYLGQPVKHAVITVPTYFSNSQRQATKDAGAIAGLKVLPIINEATAAAIAYGLDRRGAGKRNVLIFDLGGGTFDVSVLSIDAGVFEVKATAGDTHLGGEDFDNRLVNHFMEEFRRKHGKDLSGNKRALRRLRTACERAKRTPSSSTQATLEIDSLFEGVDFYKSITRARFEELCSDLFRSTLEPVEKALRDAKLDKAQIHDFVLGGGLHSHPQGAEVAAGLLQRQGAEQEHQP |
| 4991 | sp|Q76NU5|HSPGC\_DICDI | MATIFDILNTLNNNNNNKNYFESCKRQRTNNKTNKTIIDILPPMDVTMTNDKLIIETELAGISKDDIEISINDSILTIQGEKKKNLNKQLIIEKSSSSPSLLDTKEDEASIEEFDEDDIKPKSTETTSTLSNSKENKKDENKSKSTEKKFISERSFGNFKRYLDLTKFLYQLDLNSINTQFENGLLTITINKKLHYSNTIKININ |
| 4992 | sp|Q5GTE5|HTPG\_WOLTR | MMELKMHNVKGTENLKFDAEVGKVLNIVIHSLYTNKDIFLRELVSNASDACDKLRYESQLNPNLLDSSGELKITISSNKDENELYVTDNGIGMSRQDLIGNLGTIASSGTQKFLDAIKNSKDSSQAVELIGKFGVGFYSSFMVASEVIVESRKAGEEESWVWRSTGDGEYSISKLDNQIPCGTKITLVMRPEENEFLDKFRIENIVTTYSDHINFPVEFIDEEGKSEKLNSKAAIWTKLKNDVTQEEHNDFFRGVAHVGGEPWMILHNKNEGAIEYTNLLYVPSIKPFDLFHPDRRCSVKLYVNKVFITEDNVQIIPQYLRFLKGVVDSPDLPLNISRETLQNNRVVEQIRKSLTKRVISELGKKAKENLEEYTKFWTNFGAVLKEGLCEAMPTEEREALLSICRFHSTGDKKLVSIDDYISRMKPEQGYIYYLTGNSLDSVKNSPQLEGFISKGLEVLLFVDPVDDFWTSVIHEYKGQKFKSVTRADVDLEKFSPEEKDKENKSDEERAEGNTDSILQYFTKVLGNAVKSVKISKKLTDSPVCLAVDEGAMDLRMERFLREQNQLNYRTPKVLEVNTKHSVIKSIIKSYAENGENPTLEDMVHLLFYQACIVEGEEMDDASLFAKKLNNLLGKVII |
| 4993 | sp|B8DPH7|HSLU\_DESVM | MSNLTPREIVSELDKYIVGQNAAKRMVAVAMRNRWRRQQLDPALRDEIAPKNIIMMGPTGVGKTEIARRLAKLSASPFIKVEATKFTEVGYVGRDVESMVRDLMEIGIALVRAEENEKVRVKAEARAEERLLDLLLPGGAPQPAPAQGMGGLTFDLSASHSGGQAIPQPPAQADASQASPPTGTGSAPDSRSSTREKLRTLWHGGKLDDREVDMEVEESGGPQVGVLSMPGLEDVGSQVRDMFSKVFPSRRKRRRMKVRDAFNLLTQEEADRLIDHDRVSDLARERVEQTGIIFIDEIDKIASGSTQKSSDVSREGVQRDLLPIVEGSVVNTKYGMVRTDHILFIAAGAFHFSKPSDLIPELQGRFPLRAELSALGKDDFLRILTEPHNALTRQYTALLQTEGVHIEFTGDALREIAAFAEETNAQTENIGARRLYTILEKILADLSFEAPDRSGDRVTVDSDYVREHLADVRANKDLSRYIL |
| 4994 | sp|Q0TJ94|HSPQ\_ECOL5 | MIASKFGIGQQVRHSLLGYLGVVVDIDPVYSLSEPSPDELAVNDELRAAPWYHVVMEDDNGLPVHTYLAEAQLSSELQDEHPEQPSMDELAQTIRKQLQAPRLRN |
| 4995 | sp|B8FH26|HSLU\_DESAL | MEDLKPREIVQELDKYIIGQDHAKRFVAIALRNRWRRRQVPQDLRDEIAPKNIILIGPTGVGKTEISRRLAKLADVPFLKVEATKFTEVGYVGRDVESMIRDLVEVTVNMVREKEEDEVALPAMKAAEERILDILLPPRRETQPFADAEGETTLEIVTRGDSNQDSTREKLRKMLHSGKFDDRYVDLEINERNTPVVEIFSNMGMEEVGFNFKDMLGGLMPKNTKKRKVKVSEAMEILTQQEAQGLIDMEKVVKKALSRVEESGIIFLDEIDKIAVGGGKGQGPDVSREGVQRDLLPIVEGTTVNTKYGMVKTDHILFIASGAFHMTKPSDLTPELQGRFPIRVELDSLTEHDFMRILTEPKNAIMLQYQELLKTEGVELVFTQDSVAEIASIAKEVNDRTENIGARRLHTVMECLLEDILYDAPEVPEKKITIGAEMVRAKLESIKEDEDLSRYIL |
| 4996 | sp|P29830|HS176\_ARATH | MDLGRFPIISILEDMLEVPEDHNNEKTRNNPSRVYMRDAKAMAATPADVIEHPNAYAFVVDMPGIKGDEIKVQVENDNVLVVSGERQRENKENEGVKYVRMERRMGKFMRKFQLPENADLDKISAVCHDGVLKVTVQKLPPPEPKKPKTIQVQVA |
| 4997 | sp|P58479|HTPG\_SALTI | MKGQETRGFQSEVKQLLHLMIHSLYSNKEIFLRELISNASDAADKLRFRALSNPDLYEGDGELRVRVSFDKDKRTLTIADNGVGMNRDEVIDHLGTIAKSGTKSFLESMGSDQAKDSQLIGQFGVGFYSAFIVADKVTVRTRAAGDKPENGVFWESAGEGEYTVADITKNDRGTEITLHLREGEDEFLDDWRVRSIISKYSDHIALPVEIEKREEKDGETVISWEKINKAQALWTRNKSEIKDDEYNEFYKHIAHDFTDPLTWSHNRVEGKQEYTSLLYIPSQAPWDLWNRDHKHGLKLYVQRVFIMDDAEQFMPNYLRFVRGLIDSNDLPLNVSREILQDSTVTRNLRSALTKRVLQMLEKLAKDDAEKYQTFWKQFGLVLKEGPAEDHANQEAIAKLLRFASTHTDSSAQTVSLEDYVSRMKEGQEKIYYITADSYAAAKNSPHLELLRKKGIEVLLLSDRIDEWMMNYLTEFDGKAFQSVAKADESIEKLADEVDENAKEAEKALEPFVERVKTLLGDRVKEVRLTHRLTDTPAIVTTDADEMSTQMAKLFAAAGQSVPEVKYIFELNPDHVLVKRTADTKDEAQFKEWVELLLDQALFAERGTLEDPNQFIRRMNQLLVS |
| 4998 | sp|P19120|HSP7C\_BOVIN | MSKGPAVGIDLGTTYSCVGVFQHGKVEIIANDQGNRTTPSYVAFTDTERLIGDAAKNQVAMNPTNTVFDAKRLIGRRFDDAVVQSDMKHWPFMVVNDAGRPKVQVEYKGETKSFYPEEVSSMVLTKMKEIAEAYLGKTVTNAVVTVPAYFNDSQRQATKDAGTIAGLNVLRIINEPTAAAIAYGLDKKVGAERNVLIFDLGGGTFDVSILTIEDGIFEVKSTAGDTHLGGEDFDNRMVNHFIAEFKRKHKKDISENKRAVRRLRTACERAKRTLSSSTQASIEIDSLYEGIDFYTSITRARFEELNADLFRGTLDPVEKALRDAKLDKSQIHDIVLVGGSTRIPKIQKLLQDFFNGKELNKSINPDEAVAYGAAVQAAILSGDKSENVQDLLLLDVTPLSLGIETAGGVMTVLIKRNTTIPTKQTQTFTTYSDNQPGVLIQVYEGERAMTKDNNLLGKFELTGIPPAPRGVPQIEVTFDIDANGILNVSAVDKSTGKENKITITNDKGRLSKEDIERMVQEAEKYKAEDEKQRDKVSSKNSLESYAFNMKATVEDEKLQGKINDEDKQKILDKCNEIINWLDKNQTAEKEEFEHQQKELEKVCNPIITKLYQSAGGMPGGMPGGMPGGFPGGGAPPSGGASSGPTIEEVD |
| 4999 | sp|Q8EFF7|HTPG\_SHEON | MSQQETHGFQTEVKQLLHLMIHSLYSNKEIFLRELVSNAADAADKLRYLALTNDALYEGDGELRVRISADKEKGTVTIEDNGVGMTRDGVIEHLGTIAKSGTAEFFKNLSGEASKDSQLIGQFGVGFYSAFIVAKKVTVRTRAAGHKANEAVLWESEGEGSFTVETITKATRGTEITLHLRDDEKEFADDWRLRSIITKYSDHISIPVEMWQEGTPERDGPDGEKIPATEGYWKAMNKATALWMRNKSEITDEEYQEFYKHISHDYTDALLWSHNRVEGKQEYTNLLYIPSKAPWDLWNRDRKHGLKLFVQRVFIMDDAEQFMPSYLRFVQGLIDSNDLPLNVSREILQDNHITKAMRTGITKRVLGMLEKLAKDDAEKYQQFWAEFGQVLKEGPAEDFANRERIAGLLRFASTHTGSAAPTVSLDDYISRMKEGQTKIYYIVADSHEAAANSPHLELLRKKGIEVLLMSERIDEWLINHLTEYKEKQLHSVTRGELELGELEDAAEKEAQEKLAEESAPLIERIKAALGASVADVKVTSRLTDTPACVVTGEGEMSTQMIKLMQAAGQPVPEVKPTFEVNPAHPLVSRLNDLQDEAAFADWSNLLLQQAQLSEKGSLADPSAFIKLMNQMLLANLK |
| 5000 | sp|Q08080|HSP7S\_SPIOL | EASSVVNPENTFFSVKRFIGRKMTEVDEESKQVSYTVVRDENNNVKLECPAIGKQFAAEEISAQVLRKLVDDASKFLNDKVTKAVVTVPAYFNDSQRTATKDAGRIAGLEVLRIINEPTAASLAYGFEKKNNETILVFDLGGGTFDVSVLEVGDGVFEVLSTSGDTHLGGDDFDKRIVDWLASSFKRDEGIDLLKDKQALQRLTETAEKAKMELSSLTQANISLPFITATADGPKHIETTLTRAKFEELWSDLLDRLRTPVENSLRDAKLSFSDLDEVILVGGSTRIPAVIELVKKMTGKAPNVTVNPDEVVALGAAVQAGVLAGDVSDIVLLDVTPLSIGLETLGGVMTKIIPRNTTLPTSKSEVFSTAADGQTSVEINVLQGEREFVRDNKSLGSFRLDGIPPAPRGVPQVEVKFDIDANGILSVTAIDKGTGKKQDITITGASTLPGDEVERMVSEAEKFAKEDKEKREVIDTKNQADSVVYQTEKQLKELGEKVPVPVKEKVEAKLGELKDAINGGETQAIKDAMAALNQEVMQLGQSLYNQPGAGGEPGAAQAQHQEQSSARQIQRAKDPKEMLLMLTSQTASELVEEVVSKMH |
| 5001 | sp|A4XV81|HTPG\_PSEMY | MSVETQKETLGFQTEVKQLLHLMIHSLYSNKEIFLRELISNASDAADKLRFEALAKPELLEGGAELKIRLSFDKDAKTVTLEDNGIGMSRDEVIAHLGTIAKSGTADFLKNLSGDQKKDSHLIGQFGVGFYSAFIVADKVDVFTRRAGLSAAEGVHWSSKGEGEFEVATVEKAERGTRIVLHLKSGEEEFADGWRLRNIVKKYSDHIALPIELPKEHYGEEKDKPAEVEWETVNRASALWTRPRAEVKDEEYQEFYKHVAHDFENPLTWSHNKVEGKLEYTSLLYVPGRAPFDLYHREAPKGLKLYVQRVFIMDQADEFLPLYLRFIKGVVDSNDLSLNVSREILQKDPVIDSMKSALTKRVLDMLEKLAKDKPEEYKAFWKAFGQVLKEGPAEDFANKEKIAGLLRFASTAGEGDEQSVSLADYLGRVKDGQDKIYYLTGESYAQIKNSPHLEVFRKKGIEVLLLTDRIDEWLMSYLTEFDGKQFVDVARGDLDLGKLDSEEDKKAQEEVAKAKEGLIERLKGALGEQVKEVRVSHRLTDSPAILAIGEQDLGLQMRQILEASGQKVPESKPIFEFNPSHPLIERLDAEADEDRFVDLTHILFDQAALAAGDSLKDPAAYVQRLNKLLVELSA |
| 5002 | sp|Q875P5|HSP7F\_LACK1 | MSIPFGLDLGNNSSVLAVARNRGIDIIVNEVSNRSTPSLVGFGQKNRFLGESGKNKQTSNIKNTVDNLKRIVGLDYDHPDFEQESKYFSSKLVKLDDGKVGAQVRFAGKQQTFSATQLAAMYINKVKTTAVQETKGNITDVAIAVPAWYTEEQRYSIGDAAKIAGLNPVRIVNDVTAAAVSYGVFKTDLPEGEEKPRVVAFVDIGHSTYTCTIAAFKKGELKVLATAYDKHFGGRDFDRAITEHFADEFKTKYKIDIRENPKAYSRILAAAEKLKKVLSANTAAPFSVESVMNDVDVSSQLSREELEELVSPLLSRVTEPITKALAQANLTPEEVDYVEIVGGTTRIPSLKNAISEAFGKQLSTTLNQDEAIAKGAAFICAIHSPTLRVRPFKFEDIHPYSVSYSWDKQEEDEDHLEVFPAGSSYPSTKLITLQRTGDFSMQAKYTNKEELPEGTSAEIAKWDITGVQVSEGETSVPVKLKLRCDPSGLHIIEDAYTVEDIKVQELVPLPADAPEDAEPEYREVTKTVKKDTLTIIAHTFALEEKALNALIEKENELSAQDKLVAETEDRKNALEEYIYTLRGKLDEEYSDFASDDEKTRLKEMLAKAEDWLYDEGYDSIKAKYIAKYEELASLGNIIRGRYLAKEEEKRQALRSKQEASKMAELAEKLAAQRKAESEKKESKADAEGDVELD |
| 5003 | sp|Q325C3|HTPG\_SHIBS | MKGQETRGFQSEVKQLLHLMIHSLYSNKEIFLRELISNASDAADKLRFRALSNPDLYEGDGELRVRVSFDKDKRTLTISDNGVGMTRDEVIDHLGTIAKSGTKSFLESLGSDQAKDSQLIGQFGVGFYSAFIVADKVTVRTRAAGEKPENGVFWESAGEGEYTVADITKEDRGTEITLHLREGEDEFLDDWRVRSIISKYSDHIALPVEIEKREEKDGETVISWEKINKAQALWTRNKSEITDEEYKEFYKHIAHDFNDPLTWSHNRVEGKQEYTSLLYIPSQAPWDMWNRDHKHGLKLYVQRVFIMDDAEQFMPNYLRFVRGLIDSSDLPLNVSREILQDSTVTRNLRNALTKRVLQMLEKLAKDDAEKYQTFWQQFGLVLKEGPAEDFANQEAIAKLLRFASTHTDSSAQTVSLEDYVSRMKEGQEKIYYITADSYAAAKSSPHLELLRKKGIEVLLLSDRIDEWMMNYLTEFDGKPFQSVSKVDESLEKLADEVDESAKEAEKALTPFIDRVKALLGERVKDVRLTHRLTDTPAIVSTDADEMSTQMAKLFAAAGQKVPEVKYIFELNPDHVLVKRAADTEDEAKFSEWVELLLDQALLAERGTLEDPNLFIRRMNQLLVS |
| 5004 | sp|P86265|HS74L\_MESAU | SVVGIDLGFLNCYIAVARSGGIETIANEYSDRCTPACISLGSRSQIVTNVRNTIHGFKKIRLPYELQKMPNGSTGVKVRLKVLATTFDPYLGGRVEPPLKSVMDQANLQREDINSIEIVGGATRIPAVKEQVTRFFLKDISTTLNADEAVARNHPAPFSKSIDLPIQSSLYRNAVEEYVYDFRDKFITPEDMNKYGQPIQMKYVEHEERPK |
| 5005 | sp|Q4R4P1|HS90A\_MACFA | MPEETQTQDQPMEEEEVETFAFQAEIAQLMSLIINTFYSNKEIFLRELISNSSDALDKIRYESLTDPSKLDSGKELHINLIPNKQDRTLTIVDTGIGMTKADLINNLGTIAKSGTKAFMEALQAGADISMIGQFGVGFYSAYLVAEKVTVITKHNDDEQYAWESSAGGSFTVRTDTGEPMGRGTKVILHLKEDQTEYLEERRIKEIVKKHSQFIGYPITLFVEKERDKEVSDDEAEEKEDKEEEKEKEEKESEDKPEIEDVGSDEEEEEKKDGDKKKKKKIKEKYIDQEELNKTKPIWTRNPDDITNEEYGEFYKSLTNDWEDHLAVKHFSVEGQLEFRALLFVPRRAPFDLFENRKKKNNIKLYVRRVFIMDNCEELIPEYLNFIRGVVDSEDLPLNISREMLQQSKILKVIRKNLVKKCLELFTELAEDKENYKKFYEQFSKNIKLGIHEDSQNRKKLSELLRYYTSASGDEMVSLKDYCTRMKENQKHIYYITGETKDQVANSAFVERLRKHGLEVIYMIEPIDEYCVQQLKEFEGKTLVSVTKEGLELPEDEEEKKKQEEKKTKFENLCKIMKDILEKKVEKVVVSNRLVTSPCCIVTSTYGWTANMERIMKAQALRDNSTMGYMAAKKHLEINPDHSIIETLRQKAEADKNDKSVKDLVILLYETALLSSGFSLEDPQTHANRIYRMIKLGLGIDEDDPTADDTSAAVTEEMPPLEGDDDTSRMEEVD |
| 5006 | sp|Q71U34|HSP7C\_SAGOE | MSKGPAVGIDLGTTYSCVGVFQHGKVEIIANDQGNRTTPSYVAFTDTERLIGDAAKNQVAMNPTNTVFDAKRLIGRRFDDAVVQSDMKHWPFMVVNDAGRPKVQVEYKGETKSFYPEEVSSMVLTKMKEIAEAYLGKTVTNAVVTVPAYFNDSQRQATKDAGTIAGLNVLRIINEPTAAAIAYGLDKKVGAERNVLIFDLGGGTFDVSILTIEDGIFEVKSTAGDTHLGGEDFDNRMVNHFIAEFKRKHKKDISENKRAVRRLRTACERAKRTLSSSTQASIEIDSLYEGIDFYTSITRARFEELNADLFRGTLDPVEKALRDAKLDKSQIHDIVLVGGSTRIPKIQKLLQDFFNGKELNKSINPDEAVAYGAAVQAAILSGDKSENVQDLLLLDVTPLSLGIETAGGVMTVLIKRNTTIPTKQTQTFTTYSDNQPGVLIQVYEGERAMTKDNNLLGKFELTGIPPAPRGVPQIEVTFDIDANGILNVSAVDKSTGKENKITITNDKGRLSKEDIERMVQEAEKYKAEDEKQRDKVSSKNSLESYAFNMKATVEDEKLQGKINDEDKQKILDKCNEIINWLDKNQTAEKEEFEHQQKELEKVCNPIITKLYQSAGGMPGGMPGGFPGGGAPPSGGASSGPTIEEVD |
| 5007 | sp|A9N6W1|HSPQ\_SALPB | MIASKFGIGQQVRHSLLGYLGVVVDIDPEYSLDEPSPDELAVNDELRAAPWYHVVMEDDDGQPVHTYLAEAQLRSEMRDEHPEQPSMDELARTIRKQLQAPRLRN |
| 5008 | sp|Q8MJ36|HSPB8\_CANLF | MADGQMPFSCHYPSRLRRDPFRDSPLPSRLLDDDFGMDPFPDDLTSSWRNWALPRFSTGWPGTLRSGMVPRGPTAAARFGVPAEGRSPPPFPGEPWKVCVNVHSFKPEELMVKTKDGYVEVSGKHEEKQQEGGIVSKNFTKKIQLPAEVDPVTVFASLSPEGLLIIEAPQVPPYSPFGESNFNNELPQDSQEVTCT |
| 5009 | sp|P11499|HS90B\_MOUSE | MPEEVHHGEEEVETFAFQAEIAQLMSLIINTFYSNKEIFLRELISNASDALDKIRYESLTDPSKLDSGKELKIDIIPNPQERTLTLVDTGIGMTKADLINNLGTIAKSGTKAFMEALQAGADISMIGQFGVGFYSAYLVAEKVVVITKHNDDEQYAWESSAGGSFTVRADHGEPIGRGTKVILHLKEDQTEYLEERRVKEVVKKHSQFIGYPITLYLEKEREKEISDDEAEEEKGEKEEEDKEDEEKPKIEDVGSDEEDDSGKDKKKKTKKIKEKYIDQEELNKTKPIWTRNPDDITQEEYGEFYKSLTNDWEDHLAVKHFSVEGQLEFRALLFIPRRAPFDLFENKKKKNNIKLYVRRVFIMDSCDELIPEYLNFIRGVVDSEDLPLNISREMLQQSKILKVIRKNIVKKCLELFSELAEDKENYKKFYEAFSKNLKLGIHEDSTNRRRLSELLRYHTSQSGDEMTSLSEYVSRMKETQKSIYYITGESKEQVANSAFVERVRKRGFEVVYMTEPIDEYCVQQLKEFDGKSLVSVTKEGLELPEDEEEKKKMEESKAKFENLCKLMKEILDKKVEKVTISNRLVSSPCCIVTSTYGWTANMERIMKAQALRDNSTMGYMMAKKHLEINPDHPIVETLRQKAEADKNDKAVKDLVVLLFETALLSSGFSLEDPQTHSNRIYRMIKLGLGIDEDEVTAEEPSAAVPDEIPPLEGDEDASRMEEVD |
| 5010 | sp|Q86H60|HSPK\_DICDI | MTMEFDPRRERRKVQKKMNVFDHRLISSNSNHRINIWRPTVSIKDNKTHISIIFELAGISRDQISIEVTKENTLVITGEKKSKGGLNNLPSSSSSINSDSTTNTNTNTTTTTTTAPPPPSDAQLKNIITIGKFIRSYKLPPGTDSSKIKATMDDGLLEIIIPKDTPSEDRLKIPIQSKL |
| 5011 | sp|Q2FHI4|HSLU\_STAA3 | MDTAGIRLTPKEIVSKLNEYIVGQNDAKRKVAIALRNRYRRSLLDEESKQEISPKNILMIGPTGVGKTEIARRMAKVVGAPFIKVEATKFTEVGYVGRDVESMVRDLVDVSVRLVKAQKKSLVQDEATAKANEKLVKLLVPSMKKKASQTNNPLESLFGGAIPNFGQNNEDEEEPPTEEIKTKRSEIKRQLEEGKLEKEKVRIKVEQDPGALGMLGTNQNQQMQEMMNQLMPKKKVEREVAVETARKILADSYADELIDQESANQEALELAEQMGIIFIDEIDKVATNNHNSGQDVSRQGVQRDILPILEGSVIQTKYGTVNTEHMLFIGAGAFHVSKPSDLIPELQGRFPIRVELDSLSVEDFVRILTEPKLSLIKQYEALLQTEEVTVNFTDEAITRLAEIAYQVNQDTDNIGARRLHTILEKMLEDLSFEAPSMPNAVVDITPQYVDDKLKSISTNKDLSAFIL |
| 5012 | sp|B1LJ31|HSPQ\_ECOSM | MIASKFGIGQQVRHSLLGYLGVVVDIDPVYSLSEPSPDELAVNDELRAAPWYHVVMEDDNGLPVHTYLAEAQLSSELQDEHPEQPSMDELAQTIRKQLQAPRLRN |
| 5013 | sp|Q57AH8|HSLV\_BRUAB | MIEHNPTTIYGTTIVTVRKDGKVVIAGDGQVSLGNTVMKGNARKVRRIGKGNVIAGFAGTTADAFTLLERLEAKLEQYPDQLMRASVELAKDWRTDRYLRKLEAMMLVADSKVTLALTGTGDVLEPEQGVMAIGSGGNYALAAARALIETDKSAEEIARKAMNIAADICIYTNHNIIVESLDAQ |
| 5014 | sp|Q5KWZ5|HRCA\_GEOKA | MLTDRQLLILQVIIDDFIRSGQPVGSRTLSKKHQIAFSSATIRNEMADLEELGYIEKTHISSGRVPSEKGYRYYVDHLLPPQRLTRADIQKIRSVFAERIYELEKLMQKSAQILSELTNYTSIALGPTFKESKLKQMQIVPLNEQTAVAIVVTDTGHVENRVVTIPSSMDAGDLEKMVNIFNERLNGVPLIDLKEKMETEVADVLRRHIRNYDSVLNTLIETLDAPEEEKVFFAGKANMLNQPEFSDIQKVRPLLDIIEQEKDIYRLLRKQTQKGVRVSIGHENELRGMENCSLITATYSVGDEPLGAIAILGPTRMEYSRVITVLNRVASDLSAALAKWYQSQ |
| 5015 | sp|A4Y2S7|HSLU\_SHEPC | MSEMTPREIVHELDAHIIGQKKAKRSVAVALRNRWRRMQLDVDFRQEVTPKNILMIGPTGVGKTEIARRLAKLANAPFIKVEATKFTEVGYVGKEVEQIIRDLTDIAIKLTREQQMGKCRQLAEEHAEERILDALLPKPKNDWESTDTDTGSNTRQIFRKKLREGQLDDKEIDIDVAQPQIGIEIMSPPGMEEMTNQLQSLFKNMGQAPAKRRKMKIKEAFKLLIEEEAAKLVNQEDLKEQAIEMVEQHGIVFLDEIDKICKRGETSGPDVSREGVQRDLLPLVEGCTVTTKHGMVKTDHILFIASGAFQMAKPSDLIPELQGRLPIRVELDALSADDFKRILTEPHASLTEQYVALMGTEGVKVEFTESGIESIAKAAWQVNERTENIGARRLHTVMEKLMEDISYEASDKSGSAFVIDADYVSAHLDNLVQDEDLSRFIL |
| 5016 | sp|C1D6U0|HRCA\_LARHH | MLNDRAQRLLKTLVERYIADGQPVGSRTLTQLSGLDISPASVRNVMAELEDMGLVASPHTSAGRVPTARGYRVFVDKLLTMHPLEQQALRQVESGIHPDSPLRMAAAASQLLSDLTHFAGVVITPQRADAAFRQIEFLRLSEKRILLILVTPLGDVQNHLLVTDRDYTPGELIETANYLNHHYAGQSLEHITRDLEQELASLQGHIARLMTAAIHASKEATSQDDIVVSGEKRLLSVEELSSDLASLRRLFDMFEHKTELLHLLNISRQAQGVSLFIGEESGLSPLDGCTVVTAPYTFDGTRVGTLGVVGPTRMNYERVIPIVDITARLVSSALSSPLSGSDAPSSH |
| 5017 | sp|Q40152|HSF8\_SOLLC | MEPNSYGSGKAAVGDGVGAPMLQTAPAPAPIPSANAPPPFLVKTYDMVDDPSTDKIVSWSPTNNSFVVWDPPEFAKDLLPKYFKHNNFSSFVRQLNTYGFRKVDPDRWEFANEGFLRGQKHLLKSISRRKPAHGHAQQQQQPHGNAQQQMQPPGHSASVGACVEVGKFGLEEEVERLKRDKNVLMQELVRLRQQQQATDNQLQGMVQRLQGMELRQQQMMSFLAKAVNRPGFLAQFVQQQNESNKRIAEGSKKRRIKQDIESQDPSVTPADGQIVKYQPGINEAAKAMLRELSKLDSSPRLDNFSNSPESFLIGDGSPQSNASSGRVSGVTLQEVPPTSGKPLLNTASAIAGQSLLPATSEMQSSHLGTCSEIINNQLSNIIPLVGGEDLHPGSLSASDMIMPELSQLQGILPENNTDVIGCDSFMDTSAVEGKVGLDIIGSCLSPGADIDWQSGLLDEIEEFPSVGDPFWEKFLQSPCSPDAAMDDDISNTSETKPQINGWDKTQNMEHLTEQMGATNIKQQKHMI |
| 5018 | sp|Q669V7|HTPX\_YERPS | MMRIALFLLTNLAVMLVFGLVLSLTGIQSSSVQGLMIMAGLFGFGGAFVSLLMSKWMALRSVGGEVIERPRNETEYWLLETVRRQSQQVGIAMPQVAIYQAPDINAFATGARRDASLVAVSTGLLQNMSRDEAEAVIAHEISHVANGDMVTMTLIQGVVNTFVIFISRLIAQIAAGFLSGDRDGESNSPGNPMVYFAVSMVLELVFGILASIITMWFSRHREFHADAGSAKLVGREKMIAALQRLKTSYEPQEAGSMMAFCINGKSKTFSELFMSHPPLDKRIEALRSGQYLK |
| 5019 | sp|Q71ZJ5|HRCA\_LISMF | MLTERQLLIFRAIIDHFTWTIQPVGSKNLLKEKGLPYSSATIRNEMGVLEEYGFIEKTHSSSGRVPSEKGYRFYVDYLLQPKKLDKSDRQMIRSFFSENYYEMEGLIQNSALMLSDLTNYTSILLGPEATKNHLSGFRFVPINNFQAMLILITDQGHVDNHLVTIPEGTTLSDIERMVNILNERLVGLSLDDLKVQIPMEVKELLGKHVRNYESFMHVFSDSFAQASQQKVYFGGKTNILNQPEFHDINKVREMLHLMEEEQDVYELFRDIPDGLQVKIGRENNNSLMEDCSIITATYNIAGERVGGIVLLGPTRMEYSRMMGLVDVMSRDLTDVLTKLYRDNQN |
| 5020 | sp|A1W4H2|HRCA\_ACISJ | MLDDRSKLLLKALVERYIAEGQPVGSRTLSRASGLELSPATIRNVMADLEDLGLIASPHTSAGRVPTAKGYRLFVDTMLTVQQEQLPTVQLMPEQPQKVIANAAHLLSSLSQFVGVVMAPRRASVFRHIEFLRLSEKRFLVIIVSPDGDVQNRVIFTEVDYSQSQLVEAANFLNANYAGLTMEQVRERLKLEVDKLRGEIAALMQAAVSVGSEAMSGSQDEVVFSGERNLLSVSDFSSNMSHLRRAFDLFEQKTQILRLLDISSRAEGVRIFIGGESQVVPFEELSVVSAPYEVDGQVVGTLGVIGPTRMSYDRMIQIVDITSKLVSNALSHRK |
| 5021 | sp|P68792|HRCA\_STAAM | MITDRQLSILNAIVEDYVDFGQPVGSKTLIERHNLNVSPATIRNEMKQLEDLNYIEKTHSSSGRSPSQLGFRYYVNRLLEQTSHQKTNKLRRLNQLLVENQYDVSSALTYFADELSNISQYTTLVVHPNHKQDIINNVHLIRANPNLVIMVIVFSSGHVEHVHLASDIPFSNDKLNTISNFVTNKLTEFNQNLQDDIVSFVQSEQEEIFINKLINTMNNHISNQSNSIYMGGKVKLIDALNESNVSSIQPILQYIESNRIAELLQDISSPNINVKIGNEIDDSLSDISIVTSQYHFDETLKGQIAVIGPTAMHYQNVIQLLNRIW |
| 5022 | sp|Q6YPL9|HRCA\_ONYPE | MMNMLSDRKKLILKAVVENYSQKGQPVGSKLLTHLPYLKFASATIRYDMVQLEKEGFLQKNHTSSGRVPSFKGYTYYLNHLLTRDHDVACMFESIDKVIQKKRFCKGQVIKEALSLLNNLTNYTAMAIGSDIFNNSKINKIDFIPLNSTQAVILIITDKGNVQHQNISLDQTKEISIYDLKDVVQVVNDLLTDKFLSEAANIIQSDFFKQTIAKYICFQEQLIALFMEVFSSFASENLYFSGVSKMLEKPELSNPEIIKKFMGLLERKELLKIMLNQDSLSFKFSDGLQLTPLKDCMILSIPFDVNPNEKGRIAVVGPSWMKYPKVIPILEYLAVHLSKLND |
| 5023 | sp|B2A1M7|HRCA\_NATTJ | MSLNWRKQKILKTIISDYIKRAEPVGSRTLTKRYEFDLSPATIRNEMADLEDMGFLEQPHTSAGRIPTERGYRFFVDELITRCLSVPQQELLLKKLTKFKALEINEIVQVTARALAEMTDYTSLVLGPQTSKSAFQEIQVFPIDQQRVLMVLTTDTGIIESKPVPVSGNLSKQELSNIVQHLNKRLKGLTIDDITPSLLKELRTDLIKEVDLVEKAMHILADSFRHSSANVALGGTKNILNQPEFNDLKKVKELLSFFENEEVLAELLSESEGIVVRIGKENPRDEVKDCSLVTASYELNGRPLGTIGVLGPTRMDYSRVIAIVAQIANELTMALDKKKITEE |
| 5024 | sp|Q3BVC0|HRCA\_XANC5 | MRASQSPMLDPRARQLLRTLIARYIRDGEPVGSKTLAQHAGLDVSPATIRNILADLEDVGLLSSPHTSAGRVPTAHGYRVFVDSLVQMQPPGEEEVRRLRAELASGNGTQSLLGSASQMLSAMSHFVGVVSAPRREQFAFRHIDFVALDARRVLAILVFADNEVQNRVIEPRRAYEPAELERVANYLNAQFAGRALADIRACLLRELRMAKSEMEQLLAHSVDLASEALVPADAEDMVMAGQTRLMGVQDLSDLDRLRELFEAFASKREILQLLERTIQAPGVRIFIGEETGMVSLEDVSLVTAPYAANGQVLGVLGVIGPKRMAYDRLIPLVQTAADVLGAAMESPGTR |
| 5025 | sp|P61446|HRCA\_LEPIC | MDLTERHKRILKALVDEFIQENRPVGSKTLFDKHDIGLSPASIRTVLKDLEDFGYLASKHTSGGRIPTERGYRFYVDSLVILYELTLKEKQRIQQEYLKMQFKLDQILKATASVLSSLSNAAGIVIGPAKNLDTLKHIELIHVRGDEILMILVMRSGTVLHRNIFVDQNYSQEALYQVSKYLNDNLKGYDIYEIQNVIIPKLMIRKDGPEDFIRIADLISSAMTPDNSEVTLYIDGFKNLYANFRDEEQQLSQVLSLLDDQGFLKAFFSEYIDQDGVFTIIGKDGDRSMSGVSIITSNYKMGEKKIGALGIIGPQRMDYNRALPLVDFTSKLVSEMVTRISK |
| 5026 | sp|P0ACF8|HNS\_ECOLI | MSEALKILNNIRTLRAQARECTLETLEEMLEKLEVVVNERREEESAAAAEVEERTRKLQQYREMLIADGIDPNELLNSLAAVKSGTKAKRAQRPAKYSYVDENGETKTWTGQGRTPAVIKKAMDEQGKSLDDFLIKQ |
| 5027 | sp|Q892Q8|HRCA\_CLOTE | MLINGVIIMEMDKRKIKILQAIIHDYIQTAEPVGSRTIAKKYDLGVSSATIRNEMSDLEDMGYLEQLHSSSGRKPSDKGYRLYVDKLMNIQKLSSMEECAIKTHIINSALYEIEKVVREASAILADLTKLTTVVMSPSSIESYIKSIQLIGLDANTVLLVLVIDTGIIKNNVIKLHAKMTIDELVKINRILNIKLNKIRVESINLDFLKVVLEEFKDYEKWLKDILPVLYETLLSGIDSNEIYLEGATNIFNYPEYNDIQRAKDFLSLIDDKDKVKNLIKSDDNITIKIGKENFIEDAKDCTIITAVYKLKDRPLGTIGVIGPTRMPYSRVVSILSTLVDELDKLLKDDNI |
| 5028 | sp|C3MEJ2|HRCA\_SINFN | MVLRNPEKKGIASTLDERSGEIFRRIVETYLESGEPLGSRNLSRLLPMSLSPASVRNVMSDLEDLGLIYSPHVSAGRLPTQTGLRFFVDAFMQVGNLSAEERTSIERQVRRADRDQPIDSLLAEASQMLSGMSRGAGLVITTKSDPVLKHVEFIRLAPTKALAVLVGDHDQVENRIIELPAGITSAQLTEAANFVNAHLAGQTIPELRSQLEKVKETVRGELDALSQDLVERGLAIWSGSEGDEKPARLIVRGRANLLEGLEGTEDIERLRMLFDDLEKKDSLIELLDLAESGPGVRIFIGSENKLFSLSGSSLIVAPYRDSDDRIVGAVGVIGPTRLNYSRIVPMVDYTAQLMSRLSR |
| 5029 | sp|Q31QM1|HRCA\_SYNE7 | MLVSRLTARQQTILSATVRHYVRTAEPVGSKALAEQYGLSVSAATIRNAMGVLERAGLLYQPHTSAGRVPSEGGYRLYVDQLMEPDRALQRQTEQQLSQQLPDRRQSLEALLRGAAQILASLSGYLSLITFPLGLEFQVRHLQLVAIAPHQVLLIVVNDSYETQSALLTLPELDRDLEADQLDRQLLLLSNFLNQELQGRSLQALANLDWPVLGSELQSLAGILQQGLQDLEKRWQPTPATSLLVCGLADLLRQPEFNELQQVQALLELLEGEQTQLLPLMLADPAADQVRVRIGSELPLAPIRSCSLVSAFYCREQQPVGSVSLIGPTRMLYENAVAAVEATASYLSEAIAS |
| 5030 | sp|A0K4S1|HRCA\_BURCH | MLDPRARTLLKTLIERYIADGQPVGSRTLSRYSGLELSPATIRNVMSDLEELGLVSSPHTSAGRVPTPRGYRLFVDTMLTVEAPIDAEAVARQVQNTLQAGEPQQRVVAAAASVLSNLSQFAGVVLTPRRSHVFKQIEFMRLSDKRILLIIVTPEGDVQNRMLATPRDYSPSQLTEASNYINAHFAGLSFDEVRRRLRDEIDQLRGDMTTLMHAAVTASTEVPDTEDTVLISGERNLLEVADLSSDMARLRKLFDVFDQKTGLLQLLDVSSHAQGVQIFIGGESTLVPIEEMSVVTAPYEVNGQIVGTLGVIGPTRMAYNRVIPIVDITARLLSLTLSQQ |
| 5031 | sp|A1UIQ9|HRCA\_MYCSK | MGSADDRRFEVLRAIVADFVATKEPIGSKTLVERHNLGVSSATVRNDMAVLEAEGYITQPHTSSGRVPTEKGYREFVDRLDDVKPLSSAERRAILKFLETGVDLDDVLRRAVRLLAQLTRQVAIVQYPTLSTSSVRHLEVVALTPARLLLVVITDTGRVDQRIVELGDAIDEHELATLRDLLGQALEGKRLSAASVAVSDLATHLSGSPGMSHRLADAVGRSATVLVETLVEHTEERLLLGGTANLTRNTADFGGSLRSVLEALEEQVVVLRLLAAQQEAGKVTVRIGHETEAEQMAGTSVVTTAYGSSGKVYGGMGVVGPTRMDYPGTIANVAAVALYIGEVLGTR |
| 5032 | sp|Q9X4R2|HRCA\_STRPN | MVTERQQDILNLIIDIFTKTHEPVGSKALQESINSSSATIRNDMAELEKQGLLEKAHTSSGRMPSVAGFQYYVKHSLDFDRLAENEVYEIVKAFDQEFFKLEDILQEAANLLTDLSGCTVVALDVEPSRQRLTAFDIVVLGQHTALAVFTLDESRTVTSQFLIPRNFLQEDLLKLKSIIQERFLGHTVLDIHYKIRTEIPQIIQRYFTTTDNVIDLFEHIFKEMFNENIVMAGKVHLLNFANLAAYQFFDQPQKVALEIREGLREDQMQNVRVADGQESCLADLAVISSKFLIPYRGVGILAIIGPVNLDYQQLINQVNVVNRVLTMKLTDFYRYLSSNHYEVH |
| 5033 | sp|B2S8G3|HRCA\_BRUA1 | MMRPPEHQLLSSLDQRSRDIFRLIVETYLNDGDPVGSRNLSRLLPHTLSPATIRNVMSDLEHLGLIYAPHISAGRLPTQIGLRFFVDAFLEVGDLPPEERSSIEAQVRAAGTSNSVESVLTEASQVLSGLSRGAGLVLTNKTDVALKHIEFVRLEPMRALAVLVMQNGDVENRVIDLPAGISTSQLIEASNFLNAHIHGHTLSEAKSELRKLSEETRRELDQLSQELVAKGLAVWSGAGADQPARLIVRGRANLLENVHAQEDIERLRHLFDDLETKDGMVQLLDLAEAGSGVRIFIGSENKLFSLSGSSLVVAPYRDSEQRVIGALGVIGPTRLNYARIVPMVDYTAQIVSRLLR |
| 5034 | sp|P30727|HRCA\_CLOAB | MEMEERKLKILQAIINDYINNGEPVGSRTIAKKYNLGISSATIRNEMADLEEMGYIEQLHTSSGRKPSDKGYRLYVDRLMEIPSMSVEEEMLIKAKIIDSALYEIDKLVKQAMSLVSEMTKLTCVVKSLSARKSYIKSISLINIEPNMILCVFITDSGMIKNSIIRVKSNIENSSLERIANILNSKLKGLTIEQINLEVINNIKKDLREYGHIFDCIMPNLYDILREADSTEVYKEGTMNIFNYPEFKDIEKAKEFLSVIDDRRILDTLFNASGGVTVNIGNENSIKEARDFSVVSSVYKYNGRPLGTIGIIGPTRIPYSKVIKVIMEVVDQINNNLDKMNNS |
| 5035 | sp|Q9Z850|HRCA\_CHLPN | MLSVTIVLVGLEMARSKVSKRDSKILDILFATTELYLKTGQPVGSKTLKESFCSDLSTATIRNYFAELEAEGFLKKNHTSGGRIPTDLALRHYVDHQEECPEAEISAPIFDKISQLPSESRNIIKDLQKATELLGEILDLPTFFSSPRFENDSVTNIQITQVDKQRAVTILSTEFGQIFTDTLWLPEACDTLSIKRIEKFLQNYIRKLPTNEELSKKEEHLSMSLYNEVVVRYLTRYCNFSEEDLYQTGMSKLLKYEAFKDPEVLALGLSLFENRRQMCELLNIGMHKGRATAFIGKELSDILGTSNPGCSVITIPYYMNRSPLGALGILGPINLPYKEALPLLKLFANKINETLTQSFYKFKLSFRRPLTSNCKLSNEPILRTEYSSIKLLPSKETL |
| 5036 | sp|Q0TB20|IBPA\_ECOL5 | MRNFDLSPLYRSAIGFDRLFNHLENNQSQSNGGYPPYNVELVDENHYRIAIAVAGFAESELEITAQDNLLVVKGAHADEQKERTYLYQGIAERNFERKFQLAENIHVRGANLVNGLLYIDLERVIPEAKKPRRIEIN |
| 5037 | sp|Q8XC04|IBPB\_ECO57 | MRNFDLSPLMRQWIGFDKLANALQNAGESQSFPPYNIEKSDDNHYRITLALAGFRQEDLEIQLEGTRLSVKGTPEQPKEEKKWLHQGLMNQPFSLSFTLAENMEVSGATFVNGLLHIDLIRNEPEPIAAQRIAISERPALNS |
| 5038 | sp|B5XT61|IBPB\_KLEP3 | MRNYDLSPLLRQWIGFDKLANALQTAGESQSFPPYNIEKSDDNHYRITLALAGFRQEDLDIQLEGTRLVVKGTPQQPEKETTWLHQGLVSQAFSLSFTLADNMEVSGATFTNGLLHIDLTRNEPEQIAPQRIAISERPALNS |
| 5039 | sp|P96193|IBPB\_AZOVI | MSAFSMAPLFRQSIGFDRFNDLFESALRNEAGSTYPPYNIEKHGDERYRIVIAAAGFQESDLDVQVERGVLSVSGGKRENRSEGVTYLHQGIAQRAFKLSFRLVDHIEVKGAELRNGLLSIELVRIVPERPAPSAFRSAAAGRPLES |
| 5040 | sp|Q9FJD4|IMB1\_ARATH | MAMEVTQLLINAQSIDGTVRKHAEESLKQFQEQNLAGFLLSLAGELANDEKPVDSRKLAGLVLKNALDAKEQHRKYELVQRWLALDMSTKSQIRAFLLKTLSAPVPDVRSTASQVIAKVAGIELPQKQWPELIVSLLSNIHQLPAHVKQATLETLGYLCEEVSPDVVEQEHVNKILTAVVQGMNAAEGNTDVRLAATRALYMALGFAQANFNNDMERDYIMRVVCEATLSPEVKIRQAAFECLVSIASTYYEKLAHYMQDIFNITAKAVREDDESVALQAIEFWSSICDEEIDILEEYGGEFAGDSDVPCFYFTKQALPGLVPLLLETLLKQEEDQDLDEGAWNIAMAGGTCLGLVARAVGDDIVPHVMPFIEEKISKPDWREREAATYAFGSILEGPSADKLMAIVNAALTFMLNALTNDPSNHVKDTTAWTLGRIFEFLHGSTIETPIINQANCQQIITVLIQSMNDAPNVAEKACGALYFLAQGYEDIGPSSPLTPFFQEIIKSLLAVAHREDATESRLRTAAYEALNEVVRCSTDETSTMVLQLVPVIMMELHNTLEGEKLSLDEREKQNELQGLLCGCLQVIIQKLGSEPTKSKFMEYADQMMGLFLRVFGCRSATAHEEAMLAIGALAYAAGPNFAKYMPEFYKYLEMGLQNFEEYQVCAVTVGVVGDVCRALEDKILPYCDGIMTQLLKDLSSNQLHRSVKPPIFSCFGDIALAIGEDFDKYWRYSMPMLQSAAELSAHSAGADDEMTEYTNSLRNGILEAYSGIFQGFKNSAKTQLLIPFAPHILQFLDSIYMEKDMDEVVMKTAIGVLGDLADTLGSHVGGLIQQSVSSKEFLNECLSSEDHTIKEAAEWAKHAITRAISV |
| 5041 | sp|B7LDX6|IRAD\_ECO55 | MMRQSLQAVLPEISGNKTSPLRKSVCSDLLTLFNSPHSALPSLLVSGMPEWQVHNPSDKHLQSWYCRQLRSALLFHEPRIAALQVNLKEAYCHTLAISLEIMLYHDDESLTFDLVWDNGGWRSATLENVS |
| 5042 | sp|A6T5A7|IRAP\_KLEP7 | MKNLIAELLVKLAQKEEEAKELTVQVEALEIVVTALLRHMEHDAQQALIQDIEQAIDQVTPCPPVNDHDAMLLQQYLKKLLRHPRS |
| 5043 | sp|P15347|ISIA\_SYNE7 | MQTYNNPEVTYDWWAGNARFANLSGLFIAAHVAQAALIMFWAGAFTLYEISWLTADQSMGEQGLILLPHLATLGLGVGDGGQVTDTYPLFVVGAVHLIASAVLGAGALFHTFRAPSDLAAASGAAKRFHFDWNDPKQLGLILGHHLLFLGVGALLLVAKATTWGGLYDAASQTVRLVTEPTLNPAVIYGYQTHFASIDNLEDLVGGHVYVGVMLIAGGIWHILVPPFQWTKKVLIYSGEAILSYSLGGIALAGFVAAYFCAVNTLAYPVEFYGAPLEIKLGVTPYFADTVQLPFGAHTPRAWLSNAHFFLAFFCLQGHLWHALRAMGFDFRRVEKALSSVEA |
| 5044 | sp|Q10KL8|IRO3\_ORYSJ | MVPSERGDVATAIRPAAADKLVHGPISDKKCRKKVPRKVHKSEREKLKRGHLNDLFGELGNMLEADRQSNGKACILTDTTRILRDLLSQVKSLRQENSTLQNESNYVTMERNELQDENGALRSEISDLQNELRMRATGSPGWGHGATGSPLPVPPSPGTVFPSQQPMQPSPMTTSTVFPLQQPLPQPTVIEPSARQPLELKLFLEAPPAEDPEPSEDQEAPNNVARPQPRYPTEASSWPISLGLPRMEDEQM |
| 5045 | sp|P51812|KS6A3\_HUMAN | MPLAQLADPWQKMAVESPSDSAENGQQIMDEPMGEEEINPQTEEVSIKEIAITHHVKEGHEKADPSQFELLKVLGQGSFGKVFLVKKISGSDARQLYAMKVLKKATLKVRDRVRTKMERDILVEVNHPFIVKLHYAFQTEGKLYLILDFLRGGDLFTRLSKEVMFTEEDVKFYLAELALALDHLHSLGIIYRDLKPENILLDEEGHIKLTDFGLSKESIDHEKKAYSFCGTVEYMAPEVVNRRGHTQSADWWSFGVLMFEMLTGTLPFQGKDRKETMTMILKAKLGMPQFLSPEAQSLLRMLFKRNPANRLGAGPDGVEEIKRHSFFSTIDWNKLYRREIHPPFKPATGRPEDTFYFDPEFTAKTPKDSPGIPPSANAHQLFRGFSFVAITSDDESQAMQTVGVHSIVQQLHRNSIQFTDGYEVKEDIGVGSYSVCKRCIHKATNMEFAVKIIDKSKRDPTEEIEILLRYGQHPNIITLKDVYDDGKYVYVVTELMKGGELLDKILRQKFFSEREASAVLFTITKTVEYLHAQGVVHRDLKPSNILYVDESGNPESIRICDFGFAKQLRAENGLLMTPCYTANFVAPEVLKRQGYDAACDIWSLGVLLYTMLTGYTPFANGPDDTPEEILARIGSGKFSLSGGYWNSVSDTAKDLVSKMLHVDPHQRLTAALVLRHPWIVHWDQLPQYQLNRQDAPHLVKGAMAATYSALNRNQSPVLEPVGRSTLAQRRGIKKITSTAL |
| 5046 | sp|Q8WN66|ANGI\_CHLAE | MVMGLGLFLLVFMLGLGLTPPTLAQDNSRYRDFLAKHYDATPQGRNDRYCESTMRRRHLTSPCKDINTFIHGNRHHIKAICGDENGNPYGENLRISKSPFQVTTCNLRGGSPRPPCQYRATRGSRNIVVGCENGLPVHLDESIFRP |
| 5047 | sp|Q93AK1|ECTT\_VIRPA | MNKSTLNNPVFYVSAFVVFLLVIIGATLPNRFGAVAEKLFHFTTIHFGWFYLLAVFVFVVFLITLSLSKFGKIKLGATLTKPEYSFFTWIGMLFSAGFGAGLVFWGVAEPMSHFFKTPFPAVEAMSEEAARVAMGYAFFHWGVSQWSVFAIVGLVIAYLQFRKKRRGLISTSIQPIIGKNKFIADTVDSLAVIATVMGVATSLGLGILQMNGGLKSVFDVPTSIWVQMAIAGVMLITYLISSSTGLDRGIKWLSNINLGSLFIIIVFVFMAGPTVFILNTFVLGLGDYFSNFIGYSLRLTPYTGDTWVREWTIFYWAWSTAWSPFVGAFIARVSRGRSIRQYVLGVLVVSPAIACIWIAAFGGTAVYNDLMNGTSIAEAVNADIAVALFETYQHLPMTTILSILSIFLIFTFLVTSADSATYILGVMTSRGSLNPTLVTKIVWGLLITAIAVVLLLAGGLEALQTASLISALPFTVILLLMMASFTRMLSKGEKKAEQDKE |
| 5048 | sp|Q9S814|EIN2\_ARATH | MEAEIVNVRPQLGFIQRMVPALLPVLLVSVGYIDPGKWVANIEGGARFGYDLVAITLLFNFAAILCQYVAARISVVTGKHLAQICNEEYDKWTCMFLGIQAEFSAILLDLTMVVGVAHALNLLFGVELSTGVFLAAMDAFLFPVFASFLENGMANTVSIYSAGLVLLLYVSGVLLSQSEIPLSMNGVLTRLNGESAFALMGLLGASIVPHNFYIHSYFAGESTSSSDVDKSSLCQDHLFAIFGVFSGLSLVNYVLMNAAANVFHSTGLVVLTFHDALSLMEQVFMSPLIPVVFLMLLFFSSQITALAWAFGGEVVLHDFLKIEIPAWLHRATIRILAVAPALYCVWTSGADGIYQLLIFTQVLVAMMLPCSVIPLFRIASSRQIMGVHKIPQVGEFLALTTFLGFLGLNVVFVVEMVFGSSDWAGGLRWNTVMGTSIQYTTLLVSSCASLCLILWLAATPLKSASNRAEAQIWNMDAQNALSYPSVQEEEIERTETRRNEDESIVRLESRVKDQLDTTSVTSSVYDLPENILMTDQEIRSSPPEERELDVKYSTSQVSSLKEDSDVKEQSVLQSTVVNEVSDKDLIVETKMAKIEPMSPVEKIVSMENNSKFIEKDVEGVSWETEEATKAAPTSNFTVGSDGPPSFRSLSGEGGSGTGSLSRLQGLGRAARRHLSAILDEFWGHLYDFHGQLVAEARAKKLDQLFGTDQKSASSMKADSFGKDISSGYCMSPTAKGMDSQMTSSLYDSLKQQRTPGSIDSLYGLQRGSSPSPLVNRMQMLGAYGNTTNNNNAYELSERRYSSLRAPSSSEGWEHQQPATVHGYQMKSYVDNLAKERLEALQSRGEIPTSRSMALGTLSYTQQLALALKQKSQNGLTPGPAPGFENFAGSRSISRQSERSYYGVPSSGNTDTVGAAVANEKKYSSMPDISGLSMSARNMHLPNNKSGYWDPSSGGGGYGASYGRLSNESSLYSNLGSRVGVPSTYDDISQSRGGYRDAYSLPQSATTGTGSLWSRQPFEQFGVAERNGAVGEELRNRSNPINIDNNASSNVDAEAKLLQSFRHCILKLIKLEGSEWLFGQSDGVDEELIDRVAAREKFIYEAEAREINQVGHMGEPLISSVPNCGDGCVWRADLIVSFGVWCIHRVLDLSLMESRPELWGKYTYVLNRLQGVIDPAFSKLRTPMTPCFCLQIPASHQRASPTSANGMLPPAAKPAKGKCTTAVTLLDLIKDVEMAISCRKGRTGTAAGDVAFPKGKENLASVLKRYKRRLSNKPVGMNQDGPGSRKNVTAYGSLG |
| 5049 | sp|Q1LSM6|GRPE\_BAUCH | MISQDKNYSDDQISQDSEIDTIEAVSETEAVSETNEIIDMRDDRIQKLEVELVQAQQRERDLLLRSKAEIENMRRRNEIEVEKVYKFSLERFVSELLPVIDNLERALEMSDKSSQNLASTIEGIELTLKSLLNVVQKFGIKVVSETHVPFNPDIHQAMTILESEEHEPNHVIIVMQKGYLLNGRLIRPAMVTVSKTKS |
| 5050 | sp|Q8FEY9|GRPE\_ECOL6 | MSSKEQKTPEGQAPEEIIMDQHEEIEAVEPEASAEQVDPRDEKIANLEAQLAEAQTRERDGILRVKAEMENLRRRTELDIEKAHKFALEKFINELLPVIDSLDRALEVADKANPDMSAMVEGIELTLKSMLDVVRKFGVEVIAETNVPLDPNVHQAIAMVESDDVAPGNVLGIMQKGYTLNGRTIRAAMVTVAKAKA |
| 5051 | sp|P15874|GRPE\_BACSU | MSEEKQTVEQNETEEQEIIEEQAAADEQQEETNESELLQNQINELQGLLEEKENKLLRVQADFENYKRRSRLEMEASQKYRSQNIVTDLLPALDSFERALQVEADNEQTKSLLQGMEMVHRQLVEALKKEGVEAIEAVGQEFDPNLHQAVMQAEDENYGSNIVVEEMQKGYKLKDRVIRPSMVKVNQ |
| 5052 | sp|Q82EX8|GRPE1\_STRAW | MTEETPGFDEKPDVPSGATPEDAEPKAAPSEGAAPAGDAAAAAQTAAQTAGLTAQLDQVRTALGERTADLQRLQAEYQNYRRRVERDRIAVKEIAIANLLTELLPTLDDIGRAREHGELVGGFKSVAESLETVAAKMGLQQFGKEGEPFDPTIHEALMHSYAPDVTETTCVAILQPGYRIGERTIRPARVAVAEPQPGAQTVKADEAEAADDKESGGPEEG |
| 5053 | sp|C5BQ34|GRPE\_TERTT | MSNQDEPQNSPEEFAEDQQADVALEEASSDSSETAADVDLVARIEALEAELTEAKEQALRAAAEMHNVRRRAEQDVEKAHKFGLEKFVSDMLPVADNLGRALEAAAAEGADMTAVTEGVDLTLKSLMDSLKKHGVESVNPEGEPFNPELHQAMTAVENPDAEPNTVINVYQVGYTLHGRLVRPAMVVVSK |
| 5054 | sp|P42761|GSTFA\_ARATH | MVLTIYAPLFASSKRAVVTLVEKGVSFETVNVDLMKGEQRQPEYLAIQPFGKIPVLVDGDYKIFESRAIMRYIAEKYRSQGPDLLGKTIEERGQVEQWLDVEATSYHPPLLALTLNIVFAPLMGFPADEKVIKESEEKLAEVLDVYEAQLSKNEYLAGDFVSLADLAHLPFTEYLVGPIGKAHLIKDRKHVSAWWDKISSRAAWKEVSAKYSLPV |
| 5055 | sp|Q6MB27|GRPE\_PARUW | MVDKDEEQIKQNVEEDLSSTVEQTGEENIEFPSAPNHPKQVLVTDEELKALKKEATEYKDKYLRLLADSENARKRLQKERQEISRYALENMVVDFLKPLDNLENALKFAQGMSDEVKNWAFGFQMILTQFKDVLASNGITALESQGTFFDPHLHEAIEMVETDSYAPGIIVEENVRGYKMGDRMIRPARVKVAKAISAIDPQDKSELNENN |
| 5056 | sp|B3E7X0|GRPE\_GEOLS | MNKEQQDLQTEQEAAVETAELTPEQQLVQLQEKLAAKEQEAKDNWDKLLRERADLENYRKRASREKEELLNYGIKSLVEEVLPVLDNLERALEHANEDGLPALVEGVKMTHTLLQTALKKFGVCAVDGNCGTLFDPAFHQAMAQVETSDHPNNTIVQEFQKGYLLKERLLRPSMVSVAKNP |
| 5057 | sp|A8EY32|GRPE\_RICCK | MTDNNIENNEEEIRKAPSANDREELTELKAQIEELKDKLIRTTAEIDNTRKRLEKARDEAKDYAIATFAKELLNVSDNLARALAHTPAKLDVEVINIIEGVQMTKDELDKIFHKHHIEEIKPEIGSMFDYNLHNAISQIDNTKYAPNSVITVMQSGYKIKDRLLRPATVQVTKKPKQEE |
| 5058 | sp|A7WYY0|HCHA\_STAA1 | MSQDVNELSKQPTPDKAEDNAFFPSPYSLSQYTAPKTDFDGVEHKGAYKDGKWKVLMIAAEERYVLLENGKMFSTGNHPVEMLLPLHHLMEAGFDVDVATLSGYPVKLELWAMPTEDEAVISTYNKLKEKLKQPKKLADVIKNELGPDSDYLSVFIPGGHAAVVGISESEDVQQTLDWALDNDRFIVTLCHGPAALLSAGLNREKSPLEGYSVCVFPDSLDEGANIEIGYLPGRLKWLVADLLTKQGLKVVNDDMTGRTLKDRKLLTGDSPLASNELGKLAVNEMLNAIQNK |
| 5059 | sp|B6I112|HCHA\_ECOSE | MTVQTSKNPQVDIAEDNAFFPSEYSLSQYTSPVSDLDGVDYPKPYRGKHKILVIAADERYLPTDNGKLFSTGNHPIETLLPLYHLHAAGFEFEVATISGLMTKFEYWAMPHKDEKVMPFFEQHKSLFRNPKKLADVVASLNADSEYAAIFVPGGHGALIGLPESQDVAAALQWAIKNDRFVISLCHGPAAFLALRHGDNPLNGYSICAFPDAADKQTPEIGYMPGHLTWYFGEELKKMGMNIINDDIAGRVHKDRKVLTGDSPFAANALGKLAAQEMLAAYAG |
| 5060 | sp|Q6N6L8|HFQ\_RHOPA | MAADRAQNLQDTFLNHVRKTKTPLTIFLVNGVKLQGIVTWFDNFCLLLRRDGHSQLVYKHAISTIMPGAPIQLFESGEDSPA |
| 5061 | sp|A1SZL0|HFQ\_PSYIN | MAKGQSLQDPFLNALRKEHIPVAIYLVNGIKLQGQIESFDQFVILLKNTVSQMVYKHAISTVVPARAIAAIPHVESD |
| 5062 | sp|Q0AYA9|HFQ\_SYNWW | MSKSQINLQDAFLNQVRKDKIPVTVFLVNGFQIKGMVRGFDNFTVIIEVDQKQQLVYKHAISTVAPLRPISMLNLEAKSDDD |
| 5063 | sp|B0KKZ5|HFQ\_PSEPG | MSKGHSLQDPYLNTLRKEKVPVSIYLVNGIKLQGSIESFDQFVVLLKNTVSQMVYKHAISTVVPARPVRLPSPTDGEHGDSEPGNA |
| 5064 | sp|B0RTY9|HFQ\_XANCB | MAKGQSLQDPFLNALRRERVPVSVYLVNGIKLQGTIESFDQFVVLLRNTVSQMVYKHAISTVVPARNVRVGPGGGYVQSNENNQAEDDDVEQ |
| 5065 | sp|A8FRD5|HFQ\_SHESH | MAKGQSLQDPFLNALRRERVPVSIYLVNGIKLQGQVESFDQFVILLKNTVSQMVYKHAISTVVPARPFNVNSHTAAPSPAGGFNGQQDDNNDQ |
| 5066 | sp|Q1LLJ6|HFQ\_CUPMC | MSNKGQLLQDPFLNALRKEHVPVSIYLVNGIKLQGNIESFDQYVVLLRNTVTQMVYKHAISTVVPARAVNFRVDDSSES |
| 5067 | sp|Q0BEX2|HFQ\_BURCM | MSNKGQLLQDPFLNALRKEHVPVSIYLVNGIKLQGNIESFDQYVVLLRNTVTQMVYKHAISTVVPARPVNFHPDAEATTS |
| 5068 | sp|Q28Q51|HFQ\_JANSC | MAENKQNLQDAFLNHVRKTKVPVTIFLINGVKLQGVITWFDNFCVLLRRDGQSQLVYKHAISTVMPAQPISLYDGEE |
| 5069 | sp|P67697|HICB\_ECOLI | MRYPVTLTPAPEGGYMVSFVDIPEALTQGETVAEAMEAAKDALLTAFDFYFEDNELIPLPSPLNSHDHFIEVPLSVASKVLLLNAFLQSEITQQELARRIGKPKQEITRLFNLHHATKIDAVQLAAKALGKELSLVMV |
| 5070 | sp|Q5Z6A4|HFA6A\_ORYSJ | MDYSTVKQEEVEVVVLDGEEEAAAAAAPVPLPAAMGVGAAVAPFLVKTFEMVEDPATDAVVSWGGAARNSFVVWDPHAFAAGLLPLHFKHANFSSFLRQLNTYGFRKVSADRWEFANEDFLGGQRHLLANIRRRRRGAGTGSTTPRAVNCGGGGGEGEVERLRRDKEALARELARLRRQQQEARAQLLDMERRVRGTERRQEQCTEFLARALRSPDVLDNIARRHAAAVERKKRRMLAAAADDDGLTFEALALAAAADTSHSTGGAVTTDMIWYELLGEEQAEIDIEVDQLVASASAAADTASEAEPWEEMGEEEVQELVQQIDCLASPSS |
| 5071 | sp|P34328|HSP10\_CAEEL | MSAIEVTADAASTWDWPLQHNDGVVKVHNTKEKFEVGLDVQFFTPKEIEVKVSGQELLIHCRHETRSDNHGTVAREINRAYKLPDDVDVSTVKSHLATRGVLTITASKKA |
| 5072 | sp|B3WAN3|HSLO\_LACCB | MSDYIASALSRDEHFRIFAADATQTVREAQRRHDTWSASSAALGRTLVATALLAASGLKNADDMLTVRIKGDGPVGALVTDGTNVGTVRGYVEEPHVNLPLNLVGKIDVARAVGKRGLLAVTKDIGVGDPFTGQVPLVSGELAEDFTYYLAKSEQIPAAVGLSVFVNADNTIQVAGGFMLQALPGANDAELSELEANVKTLPLVSELLKSGLTPEQIIQRIAGDEPVQFLDAQPLKFACNCSKEHFGDIMATLPHAQLQEMIDQDGGAETTCKFCGNQYHYSVADLEALMARHE |
| 5073 | sp|Q94J16|HFA4B\_ORYSJ | MEGGGGGGSLPPFLSKTYEMVDDPSTDAVVGWTPAGTSFVVANQPEFCRDLLPKYFKHNNFSSFVRQLNTYGFRKVDPEQWEFANEDFIKGQRHRLKNIHRRKPIFSHSSHSQGAGPLTDNERKDYEEEIERLKSDNAALSSELQNNTLKKLNMEKRMQALEEKLFVVEDQQRSLISYVREIVKAPGFLSSFVQQQDHHRKKRRLPIPISFHEDANTQENQIMPCDLTNSPAQTFYRESFDKMESSLNSLENFLREASEEFGNDISYDDGVPGPSSTVVLTELHSPGESDPRVSSPPTRMRTSSAGAGDSHSSRDVAESTSCAESPPIPQMHSRVDTRAKVSEIDVNSEPAVTETGPSRDQPAEEPPAVTPGANDGFWQQFLTEQPGSSDAHQEAQSERRDGGNKVDEMKSGDRQHLWWGKRNVEQITEKLGLLTSTEKT |
| 5074 | sp|B2GA76|HSLO\_LACF3 | MEDYLVKSVAENGQFRAYAVNATALVEEAHQIHDTWSAASAALGRAMVGTLLLATSGLQGEAGMTVKIQGDGPVGFIVVDGTAQGTVKAYMQNPHVHLPLNAKGKIDVAGAVGKTGTLSVTKMAPGDKTPYTGEVNLVSGELGDDFTYYLAQSEQIPSAVGLSVFVQSDDHIEVAGGFLIQVLPGASDEAINHLETTLRELPLVSDLLREGKTPEQILETIFAGRDLKILEKMPVEYKCDCSKDRFEKALASLSKDDLQEMIDNDHGAEAVCRFCGHKYHFSEEELKYLVATK |
| 5075 | sp|F8RP11|HSOP\_WHEAT | MADEAKAKGNAAFSAGRFEEAAGHFSDAIALAPANHVLYSNRSAALASIHRYSDALADAEKTVELKPDWAKGYSRLGAAHLGLGDAASAAAAYEKGLALDPSNEGLKAGLADAKKAAAAPPRRAPSGGADAIGQMFQGPELWTKIASDPATRAYLDQPDFMQMLREVQRNPSSLNTYLSDPRMMQVLSLMLNIKIQTPQDSDFSQSSSPSQPPPQQQKQQPETKAREMEPEPQPEPMEVSDEEKERKERKAAALKEKEAGNASYKKKDFETAIQHYTKALELDDEDISYLTNRAAVYIEMGKYDECIEDCDKAVERGRELRADFKMVARALTRKGTALAKLAKNSKDYDIAIETFQKALTEHRNPDTLKRLNEAEKAKKDLEQQEYYDPKLADEEREKGNEMFKQQKYPEAIKHYNEAIRRNPKDARVYSNRAACYTKLGAMPEGLKDAEKCIELDPTFTKGYTRKGAVQFFMKEYEKAMETYQAGLKYDPNNQELLDGIRRCVEQINKANRGDISQEDLQEKQSKAMQDPEIQNILTDPIMRQVLMDFQENPRAAQDHLKDPGVAQKIQKLINAGIVQTR |
| 5076 | sp|A0K9C0|HTPG\_BURCH | MAHETMSFQAEVKQLLHLMIHSLYSNKEIFLRELVSNASDAADKLRFEGLADNALYENDPNLRIRIGYDKAARTITIDDNGIGMSRDEAIANLGTIARSGTKEFFTKLSGDQQKDAALIGQFGVGFYSGFIVADKITVETRRAGLPANEAVRWESAGEGDFTIDAIERAQRGTTITLHLREGEDDLLSSHRLKSIIQKYSDHIALPILMRKEEWDQEKGEMVLKDEDETVNQASALWTRSKSDVTDEQYTQFYQHIAHDHQDPLTWTHNRVEGRSEYTQLLFVPAHAPFDLWNRDYRGGLKLYVKRVFIMDDAEQLLPQYLRFVKGVVDSADLPLNVSREILQESRDVKAIREGVTKRALSMLEELANAEDDAGKEKYKTFWGAFGQVLKEGLGEDHANRERIAKLLRFASTHGDTDAQDVSLADYVSRMKPEQSKIYYVTADTWQAAKNSPHLEVFRKKGVEVLLLTDRVDEWMLSFLHEFDGKPLASVARGDLDLGELNDEEKKAQEQAGEAIKPVVEKMKEALGDKVKEVRVTFRLTDSPSCLVADDNDMSGYLQRMLKAAGQNAPAMQPILEINPEHALVKQLNADSADFGDWCHLLFDQALLAEGGMLDDPASFVKRTNALLLSRAA |
| 5077 | sp|Q5AHH4|HSP21\_CANAL | MSWFGFFDPDFDDFFGRPRKYATEVPPNFNPRKIAQGDNGKGQQVSRYGAGAGHPHRALARRDDFFDDFWKNFSSGKYFVGFDDNVKTTEESDKYVVSYDQENLSPDEVNVDFDKQENELIITVTQETEKDGTKKSSTFHSNLKFEKPVNFDDISAEIGEQGVQVTLPKVHADHEKIVNIPISKAAAKK |
| 5078 | sp|A2RN83|HSLO\_LACLM | MDKIIKSISKNGHFRAFALDSTLTVREAQERHQTWPTSTVALGRTLIAAQILGANEKGDTKITVKVLGDGAMGPIIAVADSKGHVKGYVKNRELDYKKASTGEVLVAPFVGNGFLVVVKDMGLKQPYSGQVDLITGEIGEDLAWYFLSSEQTPSSVGVNVLLNEDSDTVKIAGGFMLQALPDATDEEITEIEHNIKSMPSIATMLTRDEPLKTMLDNIYGDMEYKNLGEFPLAFKCDCSKERFLEGIKSLGRQPIEEMIAEDHGAEIICQFCENKYEYSEEELKALIN |
| 5079 | sp|A4IZQ6|HTPG\_FRATW | MSEKKYTFETEVDKLLHLVIHSLYSNREIFLRELVSNSSDAIEKLRYESISNAALNEDDTDYAIRIDFDKDAKTITVSDNGIGMTEEEVIENLGTIAKSGTKKFLESLTGDKSKDNELIGQFGVGFYSSFIVADKVTVRTRKAGQDKSQATKWVSDAQNGFTVETITKEKRGTEVILHIKKEHLDLLEYHVLKGLVNKYSDCINTPIQMKKVEYDKDGKQTVKDEYETVNNTKAIWLRSKDEVTDEEYQEFYKYISHDFADALMWIHNKVEGNLEYNSLLYIPQNKPFDFWNRDKDYGLSLYVRRVFIMENKELLPPYLRFVKGVIDSADLPLNVSREILQHNKVIDKIKKAITTKILSELKKLASKDKEKYQKFWDSFGQVLKEGVSDDYSNKEKIAGLLRFATTQSGDSKQTVSLADYISRMKEGQDTIYYITSDSYKAAANNPQLEAFKKKGIEVILMTDRIDEWMMSTLTEFDGKHMKSIIKGDIDLDKFETPENKEKFEKEAKDFEKVLKEIKEVLKDKVEDVRLSKRLTDSPSCVVVNDYGMSLHMQKMMEEAGQSFMPGMGMKPILELNAEHNLVQKLKNEADTEIFADLSELLLLQAMFVEGAKIEDPMAFVKLVNKYIR |
| 5080 | sp|Q2NTD3|HTPX\_SODGM | MMRISLFLLTNLAVMVVFGIVLSLTGIQSSSAAGLMIMAGLFGFGGAFVSLLMSKSMALRSVGGEVIEQPRNETERWLLNTVRQQAQQANITMPQVALYHAPDINAFATGARRDASLVAVSTGLLQNMNRDEAEAVIAHEISHIANGDMVTMTLIQGVVNTFVIFISRILAQLAAGFMSSGRDEGESGNGNPLVYFAVSMVLELVFGVLASIITLWFSRHREFHADAGSARLVGREKMIAALQRLKTSYEPQEASSMMAFCINGRNKTFSELFMSHPPLDKRIEALRSGAYLQ |
| 5081 | sp|P50519|HSP9\_SCHPO | MSDPARKSFTEQGKEKMTPDSSKSTLDKAKESITGAYDKVASAFTSDEDKSTSQEAHDKAQRFVDDKL |
| 5082 | sp|B5R2S7|HTPX\_SALEP | MMRIALFLLTNLAVMVVFGLVLSLTGIQSSSVQGLLIMALLFGFGGSFISLLMSKWMALKSVGGEVIEQPRNERERWLMNTVATQARQAGIAMPQVAIYHAPDINAFATGARRDASLVAVSTGLLQNMSPDEAEAVIAHEISHIANGDMVTMTLIQGVVNTFVIFISRIIAQIAAGFLGGNRDEGEGSNGNPLIYFAVATVLELVFGILASIITMWFSRYREFHADAGSAKLVGREKMIAALQRLKTSYEPQEATSMMAFCINGKSKSLSELFMTHPPLDKRIEALRSGEYLK |
| 5083 | sp|Q1LKE3|HTPG\_CUPMC | MTAPHETMSFQAEVKQLLHLMIHSLYSNKEIFLRELVSNASDATDKLRFEAIANPALLENDADLAIRIEADPAARTLKITDNGIGMSRDEAIRNLGTIARSGTKEFFQQLSGDQQKDAALIGQFGVGFYSAFIVADKVTVETRRAGLAADEAVRWESAGDGEFSIDAINRAERGSTITLHLREGEDDFLSSYRLQNIIRKYSDHISLPIRMPKEEWDAEAQQQKVTGEWESVNQASALWTRSKSDITDEQYQAFYQHIAHDHEAPLAWTHNRVEGRSEYTQLLYIPARAPFDLWDRNHKAGLKLYVKRVFIMDDADQLLPAYLRWVKGVVDSADLPLNVSRELLQESRDVKAIREGCAKRVLSMLEAMADSEDEAERAKYKTFWEQFGQVLKEGVGEDHGNGERIAKLLRFATTHGDTAEQSVSLVDYVGRMKEGQDKIYYVTADTWVAAKSSPHLEVFRKKGIEVVLLTDRVDEWLLSYLHEFDGKQLVSVARGDLDLGALADEAEKAEQEKASADWKEVVDRAKSVLEGKAKDVRVTLRLTDSASCLVSDDGDMSGYLQRLLKQAGQKAPDAQPILELNPEHALVKKLRDLPDGEAFGDRVRVLFDQALLAEGGMLDDPAAYVQRVNRLLA |
| 5084 | sp|Q2YQZ4|HSLU\_BRUA2 | MSNFSPREIVSELDRFIIGQKDAKRAVAIALRNRWRRQQLEGQMREEVMPKNILMIGPTGVGKTEISRRLAKLAGAPFVKVEATKFTEVGYVGRDVEQIIRDLVEIAITLVREKRREDVKAKAHLNAEERVLDALVGKTASPATRDSFRKKLRNGEMDDKEIEIEVSDSGASPNFEIPGMPGANIGVLNISDMLGKAMGGRTKTRKTTVKDSYPILINDESDKLLDQDQIVQEALRVSEDEGIVFIDEIDKIAAREGGSGAGVSREGVQRDLLPLVEGTTVATKYGPVKTDHILFITSGAFHVSKPSDLLPELQGRLPIRVELSALTREDFRRILTETEASLIKQYIALMETEEVKLEFSDDAIDALADIAVDLNATVENIGARRLQTVIEKVLDEISFTAPDKAGATFIIDAAYVKEKIGGLAKNTDLSRFIL |
| 5085 | sp|B8DG52|HSLU\_LISMH | MTNLTLMNQLTPKQIVEKLDQYIIGQTGAKKSVAVALRNRYRRQLMDESIRDEIIPKNILMIGPTGVGKTEIARRIAKIVRAPFSKVEATKFTEVGYVGRDVESMVRDLVEVSVRLVKEEKMQLVRVKAEKNAEKRLIKLLAPSQKKKQTTSQNPLEALFGGMNQPDESAEEEVDQELKNKRSQIEWRLQNGELDDEIVTVEVKEQQNPMLDMMRGAGMDQMNGMQDALSGMFPAKKKKRKVTVREAKKILFEDEASKLIDADELAAEGIHRAEQMGMIFIDEIDKIASKEGGGNAQVSREGVQRDILPIVEGSQISTKYGTVNTEYILFIAAGAFHMSKPSDLIPELQGRFPIRIELDKLTQEDFYKILTEPDNALIKQYKALLKTEGIDLIFTKEAVERIAEIAFQVNQDSDNIGARRLHTILEKLLEDLLFEAPEINMESIKVTENYVNEKLAPIMQNKDLTQFIL |
| 5086 | sp|A4IY57|HSLU\_FRATW | MTQIMTPKTIVHELERHIIGQNDAKKAVAIALRNRWRRMQLDNEMRQEVTPKNILMIGPTGVGKTEIARRLAKLADAPFIKVEATKFTEVGYVGKDVESIIRDLVETAVKMKREEAKEKVTEKAARLAEDRILDVLIPPARTSESKVGFANEPAEDAASKKEKENKTREIFRKKIQNGELDDKEIEIEVAVAPKTIGVMGPPGMEDMTSQLQDLFSSLSTDKKKNKKMRIKDAIKLAQDEEAAKLVNEEDIKARALEAVEQNGIVFLDEIDKVCRKSSNSGADVSREGVQRDLLPLVEGSTVSTKYGVIKTDHILFIASGAFHVAKPSDLIPELQGRLPIRVELKSLEIEDFVRILREPDCSILKQYIALMKTEGIDLSFEEDAIRKIAEIAYKVNEEVENIGARRLHTVMERLLEKISFDAPELVEKNINITTDYVNEKLGNLVKNKDLSQYIL |
| 5087 | sp|Q21IX0|HTPG\_SACD2 | MTAEATVETRGFETEAKQLLHLMIHSLYSNKEIFLRELVSNASDAADKLRFEALKQPELLEQDSELKITIDFDKEAKTLSITDNGIGMNRDEVIANLGTIARSGTAQFMANLSGDQKKDSQLIGQFGVGFYSAFIVADKVEVLTRRAGSEPSEGVRWVSEGEAEYSIENIEKAARGTTIILHLKKDQEEFADGWRLRSIIKKYSDHISLPVEMPKEAAPGEDKEEKAEVEYEVINTAKALWARSRSDVTDEEYKEFYKHVSHDYTDPLSWSHNRVEGKLDYTSLIYIPSKAPFDMYNREKPRGVKLYVQRTFIMDDAEQFLPLYLRFIKGVVDSNDLSLNVSREILQQDPNIDSMRSALTKRVLDMLEKMAKKEPEKYATFWKEFGEVLKEGPAEDFANKEKIAKLLRFATTHKNTNEQDQSLDAYIERMKEGQDKIYYVVAENFNTAKNSPHLEVFRKKGIEVLLLSNRIDDWLMGHLMEYDGKQFQDVGKGSLDLGKLDSEEDKKEQEKVEEAMAPFVERMKAALAEQVEEVRITHRLTESPACLVVGEHDMGAQMRRLLEAAGQAVPESKPIIEINPTHPLVQKLDQEQDEDRFKDLSHILFDQASLAEGGSLKDPAAYVSRLNKLLLELSN |
| 5088 | sp|Q46YS9|HTPG\_CUPPJ | MSAPHETMSFQAEVKQLLHLMIHSLYSNKEIFLRELVSNASDATDKLRFEAIANPSLLENDADLAIRIEADTAARTLKITDNGIGMSRDEAIRNLGTIARSGTKEFFQQLSGDQQKDAALIGQFGVGFYSAFIVADKVTVETRRAGVAADEAVRWESTGDGEFTVDAITRAERGTTITLHMREGEDDFLSAWRLKSIIQKYSDHISLPIRMPKEVWDADTSAYKRTDEWESVNQASALWTRPKSDITDEQYIAFYQHIAHDNEAPLSWTHNRVEGRSEYTQLLYIPARAPFDLWDRNHKHGLKLYVKRVFIMDDAEQLLPSYLRWVKGVIDSADLPLNVSRELLQESRDVKAIREGSTKRVLSMLESLADSEEEAERAKYTTFWQQFGQALKEGLGEDNANQERIAKLLRFASTQNDNAEQSVSLAAYVGRMKEGQDKIYYVTADTWAAAKNSPHLEVFRKKGIEVLLLTDRVDEWMLSFLREFDGKELVSVARGDLDLGSLADEAEKAEQEKAETEWKDVVARAKTVLEGKAKDVRVTLRLTASASCLVSDEGDMSGYLQRLLKQAGQKAPDAQPILELNPEHALVKKLRDLPEGDGFNDRLLVLFDQALLAEGGMLDDPAAYVQRVNKLLA |
| 5089 | sp|B7LA28|HSLU\_ECO55 | MSEMTPREIVSELDKHIIGQDNAKRSVAIALRNRWRRMQLNEELRHEVTPKNILMIGPTGVGKTEIARRLAKLANAPFIKVEATKFTEVGYVGKEVDSIIRDLTDAAVKMVRVQAIEKNRYRAEELAEERILDVLIPPAKNNWGQTEQQQEPSAARQAFRKKLREGQLDDKEIEIDLAAAPMGVEIMAPPGMEEMTSQLQSMFQNLGGQKQKARKLKIKDAMKLLIEEEAAKLVNPEELKQDAIDAVEQHGIVFIDEIDKICKRGESSGPDVSREGVQRDLLPLVEGCTVSTKHGMVKTDHILFIASGAFQIAKPSDLIPELQGRLPIRVELQALTTSDFERILTEPNASITVQYKALMATEGVNIEFTDSGIKRIAEAAWQVNESTENIGARRLHTVLERLMEEISYDASDLSGQTIIIDADYVSKHLDALVADEDLSRFIL |
| 5090 | sp|Q3YSL9|HTPG\_EHRCJ | MQDVVNSEKLKFDAEVGKVLKLVIHSLYTNKDIFLRELISNASDACDKLRYESLSNQDLIDGDTDFKIVISVDQDKNRLYISDNGIGMNRQDLIDNLGTIAHSGTQRFLDAINNETSSQGVVELIGKFGVGFYSAFMVASEVIVESRKAGESIGYQWRSAGDGEFIISQLEDGQFPRGTKITLILKTEESEFVDKFRIEHIVTTYSYHINYPVYFLNDAGEEEKLNSDAAIWTKSKDEISAQEHQNFFRSVAHVGGEPWMILHNKNEGVIEYTNLLYIPSIKPFDLFHPDRKCSVKLYVNKVFITEDNVQIIPQYLRFLKGIIDSSDLPLNISRETLQNNKVIEKIKQSIVKRVLSELKKKAENDINDYKKFWENFGSVLKEGLCESMNTEFREELLSACRFYSTNSDDSLISLEDYIERMKEGQDNIYYLTGNDLDSIKKSPQLEGFVSRGIEVILLIDPVDDFWTNVVTDYQRVPLKSVIRADEDLEKLAHLKKDEEVGESKDENPDSKEKVDAFVKYAIQVLDKLVSGVRVSKKLTNSPVCLAVADGSMDIRMERFLREQKQLNYKSTKILEINPKHPIVSRMIDEYANTGENAVLDNMLHLLLGQACILEGEELEDVSSFAERMNNVLVKVYQ |
| 5091 | sp|A0KY03|HTPG\_SHESA | MSQQETHGFQTEVKQLLHLMIHSLYSNKEIFLRELVSNAADAADKLRYLALTNDALYEGDGELRVRISADKEKGTVTIEDNGVGMTRDGVIEHLGTIAKSGTAEFFKNLSGEASKDSQLIGQFGVGFYSAFIVAKKVTVRTRAAGHKANEAVLWESEGEGSFTVDTITKASRGTEITLHLRDEEKEFADEWRLRSIITKYSDHISVPVEMWQEGTPERDGPDGEKIPATEGYWKVMNKATALWMRNKSEISDEEYQEFYKHISHDYTDALLWSHNRVEGKQEYTNLLYIPSKAPWDLWNRDRKHGLKLFVQRVFIMDDAEQFMPSYLRFVQGLIDSNDLPLNVSREILQDNHITKAMRTGITKRVLGMLEKLAKDDAEKYQQFWAEFGQVLKEGPAEDFANRERIAGLLRFASTHTGSAAPTVSLDDYLSRMKEGQNKIYYIVADSHEAAANSPHLELLRKKGIEVLLMSERIDEWLINHLTEYKEKQLHSVTRGELELGELEDAAEKEAQEKLAEESAPLIERIKAALGASVADVKVTSRLTDTPACVVTGEGEMSSQMIKLMQAAGQPVPEVKPTFEVNPAHPLVSRLNDLQDEAAFADWSNLLLQQAQLSEKGSLADPSAFIKLMNQMLLANLK |
| 5092 | sp|C5D8V9|HSLU\_GEOSW | MSEALTPRQIVEKLDQFIVGQKEAKKAVAIALRNRYRRSLLDEKLRDEVVPKNILMIGPTGVGKTEIARRLAKLVGAPFVKVEATKFTEVGYVGRDVESMVRDLVETSVRLVKERKMNEVKDRAEQQANKRLVELLVPGKQKQTMKNPLELLFGGAQTSQQDTYQTYEDDHIEQKRRQVAWQLANGQLEDEMVTIEVEEQQPMFFDFLQGAGIEQMGMNMQDALSSLIPKRRKKRKLKVREARKVLTNEEAQKLIDMDEVTQEAIRLAEQSGIIFIDEIDKIARSGQAASSADVSREGVQRDILPIVEGSTVMTKYGPVKTDHILFIAAGAFHMAKPSDLIPELQGRFPIRVELTKLSVDDFVKILVEPDNALIKQYKALLATEGINLEFSDDAIRKIAEVAFEVNQTTDNIGARRLHTIMEKLLEDLLFEAPDITLDEVVITPQYVEQKLGNIVKNKDLSEFIL |
| 5093 | sp|Q61W58|HSP90\_CAEBR | MSENAETFAFQAEIAQLMSLIINTFYSNKEIYLRELISNASDALDKIRYQALTEPSELDTGKELFIKITPNKEEKTLTIMDTGIGMTKADLVNNLGTIAKSGTKAFMEALQAGADISMIGQFGVGFYSAFLVADKVVVTSKNNDDDSYQWESSAGGSFVVRPYNDPELTRGTKITMYIKEDQVDFLEERKIKEIVKKHSQFIGYPIKLVVEKEREKEVEDEEAVESKDEEKKEGDVENVGEDADAEKDKKKTKKIKEKYFEDEELNKTKPIWTRNPDDISNEEYAEFYKSLSNDWEDHLAVKHFSVEGQLEFRALLFAPQRAPFDLFENKKSKNSIKLYVRRVFIMENCEELMPEYLNFIKGVVDSEDLPLNISREMLQQSKILKVIRKNLVKKCMELFDEIAEDKDNFKKFYEQFGKNLKLGIHEDSTNRKKLSEFLRYATSAGEEPTSLKEYVSRMKENQTQIYYITGESKEVVAASAFVERVKSRGFEVLYMCDPIDEYCVQQLKEYDGKKLVSVTKEGLELPETEEEKKKFEEDKVAYENLCKVIKDILEKKIEKVAVSNRLVSSPCCIVTSEYGWSANMERIMKAQALRDSSTMGYMAAKKHLEINPDHAIMKTLRERVEADKNDKTVKDLVVLLFETALLSSGFSLEEPQSHASRIYRMIKLGLDIGDEDIEESAVPSSCTAEAKIEGADEDASRMEEVD |
| 5094 | sp|P14834|HSP70\_LEIMA | MTFDGAIGIDLGTTYSCVGVWQNERLDIIANDQGNRTTPSYVAFTDSERLIGDAAKNQVAMNPHNTVFDAKRLIGRKFNDSVVQSDMKHWPFKVTTKGDDKPVISVQYRGEEKTFTPEEISSMVLLKMKETAEAYLGKQVKKAVVTVPAYFNDSQRQATKDAGTIAGLEVVRIINEPTAAAIAYGLDKGDDGKERNVLIFDLGGGTFDVTLLTIDRGIFEVKATNGDTHLGGEDFDNRLVTFFTEEFKRKNKGKNLASSHRALRRLRTACERAKRTLSSATQATIEIDALFENIDFQATITRARFEELCGDLFRSTIQPVERVLQDAKMDKRSVHDVVLVGGSTRIPKVQSLVSDFFGGKELNKSINPDEAVAYGAAVQAFILTGGKSKQTEGLLLLDVTPLTLGIETAGGVMTALIKRNTTIPTKKSQIFSTYADNQPGVHIQVFEGERAMTKDCHLLGTFDLSGIPPAPRGVPQIEVTFDLDANGILNVSAEEKGTGKRNQITITNDKGRLSKD |
| 5095 | sp|C4ZQ92|HSPQ\_ECOBW | MIASKFGIGQQVRHSLLGYLGVVVDIDPVYSLSEPSPDELAVNDELRAAPWYHVVMEDDNGLPVHTYLAEAQLSSELQDEHPEQPSMDELAQTIRKQLQAPRLRN |
| 5096 | sp|Q08914|HSP33\_YEAST | MTPKRALISLTSYHGPFYKDGAKTGVFVVEILRSFDTFEKHGFEVDFVSETGGFGWDEHYLPKSFIGGEDKMNFETKNSAFNKALARIKTANEVNASDYKVFFASAGHGALFDYPKAKNLQDIASKIYANGGVIAAICHGPLLFDGLIDIKTTRPLIEGKAITGFPLEGEIALGVDDILRSRKLTTVERVANKNGAKYLAPIHPWDDYSITDGKLVTGVNANSSYSTTIRAINALYS |
| 5097 | sp|Q6Z7V2|HS24M\_ORYSJ | MASIVASKRIPLFRLVEQLLAASPAQGAASALRPVAVAGGSRAYNTGAQLRRHERDESDDDSGRGYDTRRPTRDATMPAFFSDVFRDPFSAPQSLGRLLSLMDDLATPAGRAGAATLRRGWNAKESEEALHLRVDMPGLGKEHVKVWAEQNSLVIKGEGEKEAGEDEGAAPARYSGRIELAPEVYRMDQIKAEMKNGVLKVVVPKVKEEQRRDVFQVNVE |
| 5098 | sp|Q146X0|HSLU\_PARXL | MSTMTPAEIVSELDKHIIGQGRAKKAVAVALRNRWRRQQVEEPLRQEITPKNILMIGPTGVGKTEIARRLAKLADAPFIKIEATKFTEVGYVGRDVDSIVRDLIEISVKQTRETEMRKVRTKAEDQAEDRILDILLPSARPVGFGASSGAADTVDEGSTTRQTFRKRLREGLLDDKEVELDVEQPQVGMDIMGPPGMEDMTEQIRSMFANIGGGKKTRRKMKVKEALKALTDEEAARMLNDEEVKTKAVQNVEQNGIVFLDEIDKIASRNEAGGGEVSRQGVQRDLLPLVEGTTINTKYGMVKTDHILFIASGAFHLAKPSDLIPELQGRFPIRVELDSLSVNDFESILVSTDASLVKQYQALLATEDVHLEFADDGIRRLAEIAYAVNEKTENIGARRLYTVIEKLLEEVSFAAGNHSGRTVQIDAAYVDRALNEVAEDEDLSRYVL |
| 5099 | sp|Q9I8F9|HSP71\_ORYLA | MSAAKSVSIGIDLGTTYSCVGVFQHGKVEIIANDQGNRTTPSYVAFTDTERLIGDAAKNQVALNPSNTVFDAKRLIGRRFDEPVVQADMKHWPFKVVSEGGKPKIQVDYKGENKTFFPEEISSMVLVKMKEIAEAYLGHKVSNAVITVPAYFNDSQRQATKDAGVIAGLNVQRIINEPTAAAIAYGLDKGKSGERNVLIFDLGGGTFDVSILTIEDGIFEVKATAGDTHLGGEDFDNRMVNHFVEEFKRKHKKDISQNKRALRRLRTACERAKRTLSSSSQASIEIDSLFEGIDFYTSVTRARFEELCSDLFRGTLEPVEKALRDAKMDKGQIHDVVLVGGSTRIPKIQKLLQDFFNGRELNKSINPDEAVAYGAAVQAAILSGDTSGNVQDLLLLDVAPLSLGIETAGGVMTALIKRNTTIPTKQTQVFSTYADNQPGVLIQVYEGERAMTKDNNLLGKFDLTGIPPAPRGVPQIEVTFDIDANGILNVSAVDKSTGNENKITITNDKGRLSKEDIERMVQEAEKYKAEDEQQRDKIAAKNSLESLAFNLKSSAQDDSLKDKISQEDRKRVVEKCDETIAWLENNQLADKDEFQHKQKELEKVCNPIISKLYQGGMPSGSCREQARADSQGPTIEEVD |
| 5100 | sp|Q15N47|HSLU\_PSEA6 | MSEMTPREIVHELDRHIIGQKNAKRAVSVALRNRWRRMQLSGDLRQEVTPKNILMIGPTGVGKTEIARRLAKLANAPFIKVEATKFTEVGYVGKEVETIIRDLADIAVKMAKEQETKKVKYRAEEAAEERILDVLLPPAENQWGEKEQNEDKGTRQTFRKKLREGQLDDKEIEIDVALPQVGVEIMAPPGMEEMTNQLQGMFQNLSGSQKKKKKLKIKEAFKLLIEEEAARLVNQEDLKANAIESLEQNGIVFIDEIDKICKREGSNSGGDVSREGVQRDLLPLVEGSTVSTKHGMVKTDHILFIASGAFQMAKPSDLIPELQGRLPIRVELEALTAGDFIRILTEPNASLTEQYIALLKTEGVDVDFTQDGIERIAQAAWQVNERTENIGARRLHTVMERLMEEISFDASEKSGEQLTVDAKYVNDHLEMLVENEDLSRFIL |
| 5101 | sp|P63018|HSP7C\_RAT | MSKGPAVGIDLGTTYSCVGVFQHGKVEIIANDQGNRTTPSYVAFTDTERLIGDAAKNQVAMNPTNTVFDAKRLIGRRFDDAVVQSDMKHWPFMVVNDAGRPKVQVEYKGETKSFYPEEVSSMVLTKMKEIAEAYLGKTVTNAVVTVPAYFNDSQRQATKDAGTIAGLNVLRIINEPTAAAIAYGLDKKVGAERNVLIFDLGGGTFDVSILTIEDGIFEVKSTAGDTHLGGEDFDNRMVNHFIAEFKRKHKKDISENKRAVRRLRTACERAKRTLSSSTQASIEIDSLYEGIDFYTSITRARFEELNADLFRGTLDPVEKALRDAKLDKSQIHDIVLVGGSTRIPKIQKLLQDFFNGKELNKSINPDEAVAYGAAVQAAILSGDKSENVQDLLLLDVTPLSLGIETAGGVMTVLIKRNTTIPTKQTQTFTTYSDNQPGVLIQVYEGERAMTKDNNLLGKFELTGIPPAPRGVPQIEVTFDIDANGILNVSAVDKSTGKENKITITNDKGRLSKEDIERMVQEAEKYKAEDEKQRDKVSSKNSLESYAFNMKATVEDEKLQGKINDEDKQKILDKCNEIISWLDKNQTAEKEEFEHQQKELEKVCNPIITKLYQSAGGMPGGMPGGFPGGGAPPSGGASSGPTIEEVD |
| 5102 | sp|P27323|HS901\_ARATH | MADAETFAFQAEINQLLSLIINTFYSNKEIFLRELISNSSDALDKIRFESLTDKSKLDGQPELFIRLVPDKSNKTLSIIDSGIGMTKADLVNNLGTIARSGTKEFMEALQAGADVSMIGQFGVGFYSAYLVAEKVVVTTKHNDDEQYVWESQAGGSFTVTRDVDGEPLGRGTKITLFLKDDQLEYLEERRLKDLVKKHSEFISYPIYLWTEKTTEKEISDDEDEDEPKKENEGEVEEVDEEKEKDGKKKKKIKEVSHEWELINKQKPIWLRKPEEITKEEYAAFYKSLTNDWEDHLAVKHFSVEGQLEFKAILFVPKRAPFDLFDTRKKLNNIKLYVRRVFIMDNCEELIPEYLSFVKGVVDSDDLPLNISRETLQQNKILKVIRKNLVKKCIEMFNEIAENKEDYTKFYEAFSKNLKLGIHEDSQNRGKIADLLRYHSTKSGDEMTSFKDYVTRMKEGQKDIFYITGESKKAVENSPFLERLKKRGYEVLYMVDAIDEYAVGQLKEYDGKKLVSATKEGLKLEDETEEEKKKREEKKKSFENLCKTIKEILGDKVEKVVVSDRIVDSPCCLVTGEYGWTANMERIMKAQALRDSSMSGYMSSKKTMEINPDNGIMEELRKRAEADKNDKSVKDLVMLLYETALLTSGFSLDEPNTFAARIHRMLKLGLSIDEDENVEEDGDMPELEEDAAEESKMEEVD |
| 5103 | sp|Q5EAC9|HSPB8\_BOVIN | MADGQMPFPCHYTSRRRRDPFRDSPLSSRLLDDGFGMDPFPDDLTASWPDWALPRLSSAWPGTLRSGMVPRGPTAMTRFGVPAEGRSPPPFPGEPWKVCVNVHSFKPEELMVKTKDGYVEVSGKHEEKQQEGGIVSKNFTKKIQLPAEVDPVTVFASLSPEGLLIIEAPQVPPYSPFGESSFNNELPQDGQEVTCT |
| 5104 | sp|A6VDH5|HSLU\_PSEA7 | MSMTPREIVHELNRHIIGQDDAKRAVAIALRNRWRRMQLPAELRAEVTPKNILMIGPTGVGKTEIARRLARLANAPFIKVEATKFTEVGYVGRDVESIIRDLADAAVKMLREQEIQKVKYRAEDAAEERILDALLPAARPAMGFGDEPAREDSNTRQLFRKRLREGQLDDKEIDIEVADNPAGVEIMAPPGMEEMTNQLQNLFSGMSKGKKKTRKLKVADALKMIRDEEAARLVNEEELKARALEAVEQHGIVFIDEIDKIAKRANAGGADVSREGVQRDLLPLIEGCTVNTKLGMVKTDHILFIASGAFHLSKPSDLVPELQGRLPIRVELKALSPNDFERILTEPHASLTEQYRELLKTEGLGIEFAEDGIKRLAEIAWQVNEKTENIGARRLHTLLERLLEEVSFSAADLASEHSDKPIRIDAGYVNSHLGELAEDEDLSRYIL |
| 5105 | sp|P0DMW1|HS71B\_RAT | MAKKTAIGIDLGTTYSCVGVFQHGKVEIIANDQGNRTTPSYVAFTDTERLIGDAAKNQVALNPQNTVFDAKRLIGRKFGDPVVQSDMKHWPFQVVNDGDKPKVQVNYKGENRSFYPEEISSMVLTKMKEIAEAYLGHPVTNAVITVPAYFNDSQRQATKDAGVIAGLNVLRIINEPTAAAIAYGLDRTGKGERNVLIFDLGGGTFDVSILTIDDGIFEVKATAGDTHLGGEDFDNRLVSHFVEEFKRKHKKDISQNKRAVRRLRTACERAKRTLSSSTQASLEIDSLFEGIDFYTSITRARFEELCSDLFRGTLEPVEKALRDAKLDKAQIHDLVLVGGSTRIPKVQKLLQDFFNGRDLNKSINPDEAVAYGAAVQAAILMGDKSENVQDLLLLDVAPLSLGLETAGGVMTALIKRNSTIPTKQTQTFTTYSDNQPGVLIQVYEGERAMTRDNNLLGRFELSGIPPAPRGVPQIEVTFDIDANGILNVTATDKSTGKANKITITNDKGRLSKEEIERMVQEAERYKAEDEVQRERVAAKNALESYAFNMKSAVEDEGLKGKISEADKKKVLDKCQEVISWLDSNTLAEKEEFVHKREELERVCNPIISGLYQGAGAPGAGGFGAQAPKGGSGSGPTIEEVD |
| 5106 | sp|Q4UVY7|HTPG\_XANC8 | MTVDTDKQTLGFQTEVKQLLQLMIHSLYSNKEIFLRELVSNAADAADKLRFEALVKPDLLEGSGELRIRVDFDKDARTVTIDDNGIGMSREDAVSHLGTIAKSGTADFLKHLSGDQKKDANLIGQFGVGFYSAFIVADQVDVYSRRAGLPASDGVHWSSRGEGEFEVASVDKPERGTRIVLQLKEGEESFADGWTLRNILKKYSDHIGLPIEMRKEHYGEDADKPAEPEWEVVNRASALWTRPKSEIKDEEYQEFYKHVAHDAGNPLAWSHNKVEGKLDYTSLLFVPGRAPFDLYHRDSAKGLKLYVQRVFIMDQAEQFLPLYLRFIKGVVDSADLSLNVSREILQSGPVVDSMKSALTKRALDMLEKLAKDKPDDYATFWRNFGQALKEGPAEDYANREKVAGLLRFSSTHDTTGAQSVALADYVGRMTEGQDKLYYLTGESYAQIKDSPHLEVFRKKGIEVLLLTDRIDEWLMSYLTEFDSKSFVDVARGDLDLGKLDSEEDKKAQEEVAKSKEGLASRIKAALGDDVAEVRVSHRLTDSPAILAIGQGDLGLQMRQLLEASGQAVPETKPVFEFNPAHPLIEKLDAEQDMDRFGDLSRVLFDQAALAAGDSLKDPAGYVRRLNKLLLELSA |
| 5107 | sp|A7FJR9|HSPQ\_YERP3 | MIASKFGIGQQVRHSLHGYLGVVIDIDPEYSLAPPEPDEVANNKTLRSSPWYHVVIEDDDGQPVHTYLAEAQLTYEDVDAHPEQPSLDELAASIRHQLQAPHLRN |
| 5108 | sp|Q25293|HSP83\_LEIIN | MTETFAFQAEINQLMSLIINTFYSNKEIFLRELISNASDACDKIRYQSLTDPSVLGESPRLCIRVVPDKENKTLTVEDNGIGMTKADLVNNLGTIARSGTKAFMEALEAGGDMSMIGQFGVGFYSAYLVADRVTVTSKNNSDESYVWESSACGTFTITSTPESDMKRGTRITLHLKEDQMEYLEPRRLKELIKKHSEFIGYDIELMVEKTTEKEVTDEDEEDTKKADEDEEPKVEEVREGDEGEKKKTKKVKEVTKEYEVQNKHKPLWTRDPKDVTKEEYAAFYKAISNDWEDPRATKHFSVEGQLEFRSIMFVPKRAPFDMFEPNKKRNNIKLYVRRVFIMDNCEDLCPDWLGFVKGVVDSEDLPLNISRENLQQNKILKVIRKNIVKKCLEMFDEVAENKEDYKQFYEQFGKNIKLGIHQDTANRKKLMEFVRFYSSESGEEMTTLKDYVTRMKAGQKSIYYITGDSKKKLESSPFIEQAKRRGLEVLFMTEPIDEYVMQQVKDFEDKKFACLTKEGVHFEESEEEKQQREEEKAACEKLCKTMKEVLGDKVEKVIVSECLSTSPCILVTSEFGWSAHMEQIMRNQALRDSSMAQYMMSKKTMELNPRHPIIKELRRRVDADENDKAVKDLVFLLFDTSLLTSGFQLEDPTGYAERINRMIKLGLSLDEEEEVVAAEATVAETAPAEVTAGTSSMEQVD |
| 5109 | sp|P22813|HSF\_DROME | MSRSRSSAKAVQFKHESEEEEEDEEEQLPSRRMHSYGDAAAIGSGVPAFLAKLWRLVDDADTNRLICWTKDGQSFVIQNQAQFAKELLPLNYKHNNMASFIRQLNMYGFHKITSIDNGGLRFDRDEIEFSHPFFKRNSPFLLDQIKRKISNNKNGDDKGVLKPEAMSKILTDVKVMRGRQDNLDSRFSAMKQENEVLWREIASLRQKHAKQQQIVNKLIQFLITIVQPSRNMSGVKRHVQLMINNTPEIDRARTTSETESESGGGPVIHELREELLDEVMNPSPAGYTAASHYDQESVSPPAVERPRSNMSISSHNVDYSNQSVEDLLLQGNGTAGGNILVGGAASPMAQSVSQSPAQHDVYTVTEAPDSHVQEVPNSPPYYEEQNVLTTPMVREQEQQKRQQLKENNKLRRQAGDVILDAGDILVDSSSPKAQRTSIQHSTQPDVMVQPMIIKSEPENSSGLMDLMTPANDLYSVNFISEDMPTDIFEDALLPDGVEEAAKLDQQQKFGQSTVSSGKFASNFDVPTNSTLLDANQASTSKAAAKAQASEEEGMAVAKYSGAENGNNRDTNNSQLLRMASVDELHGHLESMQDELETLKDLLRGDGVAIDQNMLMGLFNDSDLMDNYGLSFPNDSISSEKKAPSGSELISYQPMYDLSDILDTDDGNNDQEASRRQMQTQSSVLNTPRHEL |
| 5110 | sp|Q00613|HSF1\_HUMAN | MDLPVGPGAAGPSNVPAFLTKLWTLVSDPDTDALICWSPSGNSFHVFDQGQFAKEVLPKYFKHNNMASFVRQLNMYGFRKVVHIEQGGLVKPERDDTEFQHPCFLRGQEQLLENIKRKVTSVSTLKSEDIKIRQDSVTKLLTDVQLMKGKQECMDSKLLAMKHENEALWREVASLRQKHAQQQKVVNKLIQFLISLVQSNRILGVKRKIPLMLNDSGSAHSMPKYSRQFSLEHVHGSGPYSAPSPAYSSSSLYAPDAVASSGPIISDITELAPASPMASPGGSIDERPLSSSPLVRVKEEPPSPPQSPRVEEASPGRPSSVDTLLSPTALIDSILRESEPAPASVTALTDARGHTDTEGRPPSPPPTSTPEKCLSVACLDKNELSDHLDAMDSNLDNLQTMLSSHGFSVDTSALLDLFSPSVTVPDMSLPDLDSSLASIQELLSPQEPPRPPEAENSSPDSGKQLVHYTAQPLFLLDPGSVDTGSNDLPVLFELGEGSYFSEGDGFAEDPTISLLTGSEPPKAKDPTVS |
| 5111 | sp|P02829|HSP82\_YEAST | MASETFEFQAEITQLMSLIINTVYSNKEIFLRELISNASDALDKIRYKSLSDPKQLETEPDLFIRITPKPEQKVLEIRDSGIGMTKAELINNLGTIAKSGTKAFMEALSAGADVSMIGQFGVGFYSLFLVADRVQVISKSNDDEQYIWESNAGGSFTVTLDEVNERIGRGTILRLFLKDDQLEYLEEKRIKEVIKRHSEFVAYPIQLVVTKEVEKEVPIPEEEKKDEEKKDEEKKDEDDKKPKLEEVDEEEEKKPKTKKVKEEVQEIEELNKTKPLWTRNPSDITQEEYNAFYKSISNDWEDPLYVKHFSVEGQLEFRAILFIPKRAPFDLFESKKKKNNIKLYVRRVFITDEAEDLIPEWLSFVKGVVDSEDLPLNLSREMLQQNKIMKVIRKNIVKKLIEAFNEIAEDSEQFEKFYSAFSKNIKLGVHEDTQNRAALAKLLRYNSTKSVDELTSLTDYVTRMPEHQKNIYYITGESLKAVEKSPFLDALKAKNFEVLFLTDPIDEYAFTQLKEFEGKTLVDITKDFELEETDEEKAEREKEIKEYEPLTKALKEILGDQVEKVVVSYKLLDAPAAIRTGQFGWSANMERIMKAQALRDSSMSSYMSSKKTFEISPKSPIIKELKKRVDEGGAQDKTVKDLTKLLYETALLTSGFSLDEPTSFASRINRLISLGLNIDEDEETETAPEASTAAPVEEVPADTEMEEVD |
| 5112 | sp|P83581|HS74L\_RAT | LSAMLEDTENWLYEELSLTQDPVV |
| 5113 | sp|P04811|HSP83\_DROVI | MPEEAETFAFQAEIAQLMSLIINTFYSNKEIFLRELISNASDALDKIRYESLTDPSKLDSGKELYIKLIPNKTAGTLTIIDTGIGMTKSDLVNNLGTIAKSGTKAFMEALQAGADISMIGQFGVGFYSAYLVADKVTVTSKNNDDEQYVWESSAGGSFTVRADNSEPLGRGTKIVLFIKEDQTDYLEESKIKEIVNKHSQFIGYPIKLLVEKEREKEVSDDEDDEKKEGDEKKEMDTDEPKIEDVGEDEDADKKDKDAKKKKTIKEKYTEDEELNKTKPIWTRNPDDISQEEYGEFYKSLTNDWEDHLAVKHFSVEGQLEFRALLFIPRRTPFDLFENQKKRNNIKLYVRRVFIMDNCEDLIPEYLNFIKGVVD |
| 5114 | sp|C3PHU9|HRCA\_CORA7 | MSSSTDARRQEVLRAIVADYIASQSPVGSKALLERYQLGVSSATIRNDMAVLEAEGLIAQEHASSGRVPTQKGYRQFVDTLHDVKPLSKAERRAMLTFLEGGVDLEDVLRRSVQLLAQVTKQAAVVQLPNLKVSRVKHCEVVALSPVRLLLVLITDNGRVDQRNVELDDVIDPEQTHRLRDILNTALEGKTLTEASVELAALVDDSPADIRPHLLKAATTLIETLVEQPSDRLIMAGTSNLTRVALTEGLPSIIEALEEQVVVLKLLARVPDLGNVSVSIGEENEADELRQTSVVATRYGFGTGSEAAALGGLGVVGPTYMDYSGTISKVSAVARYVSEILAGE |
| 5115 | sp|Q5R710|HS90B\_PONAB | MPEEVHHGEEEVETFAFQAEIAQLMSLIINTFYSNKEIFLRELISNASDALDKIRYESLTDPSKLDSGKELKIDIIPNPQERTLTLVDTGIGMTKADLINNLGTIAKSGTKAFMEALQAGADISMIGQFGVGFYSAYLVAEKVVVITKHNDDEQYAWESSAGGSFTVRADHGEPIGRGTKVILHLKEDQTEYLEERRVKEVVKKHSQFIGYPITLYLEKEREKEISDDEAEEEKGEKEEEDKDDEEKPKIEDVGSDEEDDSGKDKKKKTKKIKEKYIDQEELNKTKPIWTRNPDDITQEEYGEFYKSLTNDWEDHLAVKHFSVEGQLEFRALLFIPRRAPFDLFENKKKKNNIKLYVRRVFIMDSCDELIPEYLNFIRGVVDSEDLPLNISREMLQQSKILKVIRKNIVKKCLELFSELAEDKENYKKFYEAFSKNLKLGIHEDSTNRRRLSELLRYHTSQSGDEMTSLSEYVSRMKETQKSIYYITGESKEQVANSAFVERVRKRGFEVVYMTEPIDEYCVQQLKEFDGKSLVSVTKEGLELPEDEEEKKKMEESKAKFENLCKLMKEILDKKVEEVTISNRLVSSPCCIVTSTYGWTANMERIMKAQALRDNSTMGYMMAKKHLEINPDHPIVETLRQKAEADKNDKAVKDLVVLLFETALLSSGFSLEDPQTHSNRIYRMIKLGLGIDEDEVAAEEPSAAVPDEIPPLEGDEDASRMEEVD |
| 5116 | sp|Q3BSD6|HTPX\_XANC5 | MFNRIFLFLLTNLAVLMLAGIVMSLLGVNPAQMSGLLVMAAIFGFGGSFISLLLSKFMAKRSTGAQVITEPRTPTERWLLETVRRHAQAAGIGMPEVAVYDGPEINAFATGANRNDALVAVSTGLLQNMDQDEAEAVLGHEIAHVANGDMVTMALLQGVLNTFVIVLARVVGGIIDSALSGNREGGRGFAYYIIVFALEMVFGLFATMIAMWFSRRREFRADAGGAQLAGRSKMIAALERLSLNHGQNTLPSQVQAFGISGGVGEGLRRLFLSHPPLTERIAALRAASGSAM |
| 5117 | sp|Q38W91|HRCA\_LACSS | MLTERQLMILKEIIRLFTESGQPVGSKKLMSELPMHVSSATIRNDMADLENVGLIEKTHSSSGRVPSMKGYRYYLDHLIQPAVLNPMDVATVQQSFGRHYHKIDEIVSQSANILSNLTSYTAITLGPEMAAIRLTGFRLVPLGNHQVMAIIVTSAGTVDNQVFTIPNAISGDELEKAIRVVNDHLIGLPLTVVSQKLKIEVPALLMQYMGSPGGFLNIFDDVLKQASQERLYVGGQSNLLNFSELTDVSQLKSIYNIINQSDDLAKLLELSPGEANSQVQVRLGNEMTNDLLKNYSLMTVNYDVGEHGQGLIALLGPTSMPYSRMIGLLDLFREELAKKLIDYYADFDDSQS |
| 5118 | sp|P51819|HSP83\_IPONI | MADVQMAEAETFAFQAEINQLLSLIINTFYSNKEIFLRELISNASDALDKIRFESLTDKSKLDAQPELFIRLVPDKTNKTLSIIDSGVGMAKADLVNNLGTIARSGTKEFMEALQAGADVSMIGQFGVGFYSAYLVAEKVIVTTKHNDDEQYIWESQAGGSFTVTRDVDGEQLGRGTKITLFLKEDQLEYLEERRIKDLVKKHSEFISYPIYLWTEKTTEKEISDDEDDEPKKEEEGDIEEVDEDKEKEGKKKKKIKEVSHEWQLINKQKPIWLRKPEEITKEEYASFYKSLTNDWEDHLAVKHFSVEGQLEFKAILFVPKRAPFDLFDTRKKMNNIKLYVRRVFIMDNCEELIPEYLGFVKGVVDSDDLPLNISREMLQQNKILKVIRKNLVKKCIEMFNEIAENKDDYNKFYEAFSKNLKLGIHEDSQNRAKLADLLRYYSTKSGDELTSLKDYVTRMKEGQKDIYYITGESKKAVENSPFLERLKKKGYEVLFMVDAIDEYAVGQLKEYDGKKLVSATKEGLKLEDDDEEEKKKREEKKKSFENLCKIIKDILGDKVEKVVVSDRIVDSPCCLVTGEYGWTANMERIMKAQALRDSSMSSYMSSKKTMEINPDNGIMEELRKRAEADKNDKSVKDLVLLLFETALLTSGFSLDDPNTFGARIHRMLKLGLSIDEEEAGDDADMPALEEEAGEESKMEEVD |
| 5119 | sp|Q9C635|HSFB4\_ARATH | MAMMVENSYGGYGGGGGERIQLMVEGQGKAVPAPFLTKTYQLVDDPATDHVVSWGDDDTTFVVWRPPEFARDLLPNYFKHNNFSSFVRQLNTYGFRKIVPDRWEFANEFFKRGEKHLLCEIHRRKTSQMIPQQHSPFMSHHHAPPQIPFSGGSFFPLPPPRVTTPEEDHYWCDDSPPSRPRVIPQQIDTAAQVTALSEDNERLRRSNTVLMSELAHMKKLYNDIIYFVQNHVKPVAPSNNSSYLSSFLQKQQQQQPPTLDYYNTATVNATNLNALNSSPPTSQSSITVLEDDHTNHHDQSNMRKTKLFGVSLPSSKKRSHHFSDQTSKTRLVLDQSDLALNLMTASTR |
| 5120 | sp|Q5P9Z6|HSLV\_ANAMM | MSHRDSYTMYGTTILCIRQGGSVIIAGDGQVSMGSAIMKTSAKKIKRLAGDSVITGFAGATADAFTLFERLEAKLEKHPGQLMRACVELAKDWRRDKYLRRLEAMMIVADKSVSLIISGGGDVLEPENGIAAIGSGGNFALSAARALCAARDELSLDMTLEYIATAAMAVASEICVYTNNNIIMEKIEE |
| 5121 | sp|Q1H396|HRCA\_METFK | MLDKRAQILLKTLIEHYISDGQPVGSRKLSVASGLDLSPASIRNIMSELEDHGFIASPHTSAGRIPTQRGYRLFVDTLLTVQPLQNQEIRKLENVLSSPDPQELINKAAELLSSLTHFAGLVMIPKRQGAAFRHLEFLPLSEKRILVIIVTTDGAVQNRIILAEKPYSASDLTQASNFFNQHYAGNTLDEVKQKLHEELKQMQSDMTRLMAAALEASSKTADNKDGVVIAGKRNLLDVQDLSTNVSSLRKLFEMFEHRTSLMQLLDQSQKASGVQIFIGGESGYLPLDECSMVTAPYETNGQTIGTLGVIGPTRMAYERVIPIVDITAKLLSNALSNNH |
| 5122 | sp|P47447|HRCA\_MYCGE | MKNLTPRQAQILKAIINEYIAYAIPVGSKLLTKKYFKNLSGGTLRNEMAALEKKGFLKKNHISSGRVPSQIGYQYYVKVLNVSNTTNDLKTRLRSVILQQHKTIDEVIELGVKFINEIINLPVVLTNFSSDEVLKKIDLIILDKSFALFLLVSASGKVFKKTISYANQRQFEDIVICVRIFNDRIIDTRFSEINNQLEVLKEIIRTKVHEYQYVIDEILFKLFDLDQIEANKKIYGIQYLAKQPEFANQEKLTKILNLLEDTSVWQQMAFINQTNQKTNIVFGDQLGFKEISVASTLINTTSEAKHQLAIVGPTRMDYQKIKALLTTLKEEIEKYDKKIHNQT |
| 5123 | sp|B9KG99|HSLV\_CAMLR | MFHATTILAYKGKNKSVIGGDGQVSFGNTVLKNNAVKIRKLNNGKVLAGFAGSTADAFNLFDMFEKLLSSSKGDLLKAAIDFSKEWRKDKYLRKLEAMMLVLDRNHIFLLSGTGDVVEPEDGAIAAIGSGGNYALSAARALAKHSNLDEENLVKESLQIAGEICIYTNTNIKTYVIEDDK |
| 5124 | sp|B2GHU5|HRCA\_KOCRD | MENPRRVQILRAIVEDYVHSREPVGSKALVERHRLPVSSATVRNDMAALEEAGLIVAPHTSSGRIPTDRGYRVFVDQIAALQPLTGAQRRAIQVFLEGAHDLDDVMERTVRLLAQLTHQAAVIQYPVRAGITVRHVELVDVGAGTVLVILIPTSGRVAQRAVELAEPLDEVQLLELRARVLARVLGSTLETVPGRVAGLAEELPEALRHAGDRVSEALAVLAAASDEHRLVMAGTANLARFSGDFPQSISPVLEALEEQVTMLRLLSAMQQDERGVAVRIGSEECDDPLAEASVVATGYGPHAASKVGVVGPTRMDYPTTMAAVRAVARYLSRNLGD |
| 5125 | sp|Q8CP15|HRCA\_STAES | MITKRQLSILNAIVEDYVDFGQPIGSKTLIHRHHLDVSPATIRNEMKQLEEMHFIEKTHTSSGRVPSESGIRYYVNRLLEQTSHQSQNKIQRLNQLLIENHYDSSTALTNFAHELSMKSQYATLVVRPNHKQDVINDIHLIRANNHLIILVMVFSSGHVENIHFVSHAQLNNINLNKIANFLTEHFSFNRKVLTQNIESYFSQKEELLLANEVVEMINLQIGNQSNSIYMGGKVKLIDALNESNVSSIQPILQYIESNKITELLEDISTSQINVRIGKEIDDSLSDISIVTSQYHFDESLKGQIAVIGPTAMHYQNVIQLLNRIW |
| 5126 | sp|P52644|HSLJ\_ECOLI | MKKVAAFVALSLLMAGCVSNDKIAVTPEQLQHHRFVLESVNGKPVTSDKNPPEISFGEKMMISGSMCNRFSGEGKLSNGELTAKGLAMTRMMCANPQLNELDNTISEMLKEGAQVDLTANQLTLATAKQTLTYKLADLMN |
| 5127 | sp|Q2NV58|HTPG\_SODGM | MKGQETRGFQSEVKQLLHLMIHSLYSNKEIFLRELISNASDAADKLRFRALSQPDLYEGDGELRVRLSCDKEKRTLTFSDNGIGMRREEVIDNLGTIAKSGTKAFLESMGSDQLKDSQLIGQFGVGFYSAFIVADKVTVRTRAAGAKPDGGVFWESAGEGDYTIADITKPERGTEITLHLREGEDDFLDDWRLKSVIGKYSDHIVLPVEIETRSKSEEEGSDEEVVTWEKINKAQALWTRNKADISDDEYKEFYKHLSHDFSEPLSWSHNRVEGKQEYTSLLYIPAKAPWDMWNREHKHGLKLYVQRVFIMDDAEQFMPNYLRFVKGLIDSNDLPLNVSREILQDSRVTQNLKGALTKRALSMLEKLAKDDAQQYQSFWQEFGLVLKEGAGEDPTNGEAVAKLLRFASTHGDSPAQTVSLEEYVGRMVEGQEKIYYITADSYAAAKSSPHLELLRKKGIEVLLFSDRIDEWMMSYLTEFDGKAFQSVSKADPSLDKLADEEDEEQKEVEKALEPFVERVKTYLGERVKEVRLTHRLTDTPAVVTTDADDMTTQMAKLFAAAGQAAPEIKYIFELNPDHALVKRTANLGDDGAFGDWVELLLDQALLAERGTLDDPNQFIRRMNQLLNA |
| 5128 | sp|P30220|HS30E\_XENLA | MFPLSLLQPSHSPLCPCSQPALTLFGQLEDKNLGDNDLERRMQSVNEVCQLLFQDMDISRIRDQIRQPGAPESEGTSPNTGKDGKDPGNSL |
| 5129 | sp|Q30R39|HTPG\_SULDN | MAKHQFQTEANQILNLMIHSLYSNKEIFIRELVSNASDALDKLNMLVLTNDEYKGVNFSPRIDIIADKEAKTLTIKDSGIGMNEEDLMNNLGTIAKSGTKAFLENLSGDQKKDSHLIGQFGVGFYASFMVAHKVEVTTKKAATEQAYLWISKGDGEFEIEKTTRESHGTTIVMHLNDDESEFLDSYRIEGIIKKYSNHIPFAIFMDKDKFIPAKKDEDGKEIEPSRNEVENIQINRANALWTISKNEISDEEYKDFYSSIAHSSEEPLAWMHNKAEGAIEYTTLFYIPSKAPMDMYRVDYQTGIKLYINRVFITDDEKELMPTYLRFLRGVIDSKDLPLNVSREILQSNAVMAKIKNASVKKVLSELAKMAKRDAKKYDDFFTQFGNVLKEGLYSDYGNRENILELLKFNTINSDEKIMIEEFIKNVDETKKEIYYITGKTSLSMLKSSPALERFKSRGINVLVLNEEIDTIIFPMVTEYKEYKLIHVNDVKFEENENDKKAQEKSSKEFEGLTKELKESLGDSVKSVEVTFDLVDSPVKLKEDKEDPAFMMAQIMKQMGQSGDTPAPAPILQINPKHELIIKLKNSADINLINDAAHLLLDQAKLFDGVQLEDTAGFVLRLNRVIAKAI |
| 5130 | sp|P0C058|IBPB\_ECOLI | MRNFDLSPLMRQWIGFDKLANALQNAGESQSFPPYNIEKSDDNHYRITLALAGFRQEDLEIQLEGTRLSVKGTPEQPKEEKKWLHQGLMNQPFSLSFTLAENMEVSGATFVNGLLHIDLIRNEPEPIAAQRIAISERPALNS |
| 5131 | sp|Q04967|HSP76\_PIG | MSAAREVAIGIDLGTTYSCVGVFQHGRVEILANDQGNRTTPSYVAFTDTERLVGDAAKSQAALNPQNTVFDAKRLIGRKFADPTVQSDLKHWPFQVVSEGGKPKVRVSYRGEDKAFYPEEISSMVLSKMKETAEAYLGQPVRHAVITVPAYFNDSQRQATKDAGAIAGLNVLRIINEPTAAAIAYGLDRRGAGERNVLIFDLGGGTFDVSVLTIDAGVFEVKATAGDTHLGGEDFDNRLVNHFMEEFRRKHRKDLSRNKRALRRLRTACERAKRTLSSSTQATLEIDSLFEGVDFYTSITRARFEELCSDLFRSTLEPVEKALRDAKLDKAQIHDIVLVGGSTRIPKIQKLLQDFFNGRELNKSINPDEAVAYGAAVQAAVLMGDKCEKVQDLLLLDVAPLSLGLETAGGVMTTLIQRNATIPTKQTQTFTTYSDNQPGVLIQVYEGERAMTRDNNLLGRFELSGIPPAPRGVPQIEVTFDIDANGILSVTATDRSTGRANKITITNDKGRLSKEEVERMVREADEYKVEDEAQRDRVAAKNSLEAYVFHVKGSLHEESLRDKIPEEDRCKVQDKCQEVLTWLEHNQLAEKEEYEHQKRELEQICRPIFSRLYGAPGIPGGSSCGAQARQGAPSTGPVIEEVD |
| 5132 | sp|B5FMC8|IBPB\_SALDC | MRNYDLSPLLRQWIGFDKLANALQNSGESQSFPPYNIEKSDDNHYRITLALAGFRQEDLDIQLEGTRLTVKGTPEQPENEPKWLHQGLVMQPFSLSFTLAENMEVSGATFTNGLLHIDLTRNEPETIAPQRIAINERSALNS |
| 5133 | sp|Q329C6|IBPA\_SHIDS | MRNFDLSPLYRSAIGFDRLFNHLENNQSQSNGGYPPYNVELVDENHYRIAIAVAGFAESELEITAQDNLLVVKGAHADEQKERTYLYQGIAERNFERKFQLAENIHVRGANLVNGLLYIDLERVIPEAKKPRRIEIN |
| 5134 | sp|P9WH04|DEAD\_MYCTO | MAFPEYSPAASAATFADLQIHPRVLRAIGDVGYESPTAIQAATIPALMAGSDVVGLAQTGTGKTAAFAIPMLSKIDITSKVPQALVLVPTRELALQVAEAFGRYGAYLSQLNVLPIYGGSSYAVQLAGLRRGAQVVVGTPGRMIDHLERATLDLSRVDFLVLDEADEMLTMGFADDVERILSETPEYKQVALFSATMPPAIRKLSAKYLHDPFEVTCKAKTAVAENISQSYIQVARKMDALTRVLEVEPFEAMIVFVRTKQATEEIAEKLRARGFSAAAISGDVPQAQRERTITALRDGDIDILVATDVAARGLDVERISHVLNYDIPHDTESYVHRIGRTGRAGRSGAALIFVSPRELHLLKAIEKATRQTLTEAQLPTVEDVNTQRVAKFADSITNALGGPGIELFRRLVEEYEREHDVPMADIAAALAVQCRGGEAFLMAPDPPLSRRNRDQRRDRPQRPKRRPDLTTYRVAVGKRHKIGPGAIVGAIANEGGLHRSDFGQIRIGPDFSLVELPAKLPRATLKKLAQTRISGVLIDLRPYRPPDAARRHNGGKPRRKHVG |
| 5135 | sp|B5FA11|DNAK\_ALIFM | MGKIIGIDLGTTNSCVAVLDGDTPRVLENAEGERTTASVIAYTDGETLVGQPAKRQAVTNPQNTLFAIKRLIGRRFEDEEVQRDIEIMPFKIVKADNGDAWVEAKGQKMAAPQVSAEVLKKMKKTAEDFLGEEVTGAVVTVPAYFNDAQRQATKDAGRIAGLDVKRIINEPTAAALAYGLDKKGGDRTIAVYDLGGGTFDISIIEIDNVDGEQTFEVLATNGDTHLGGEDFDNRLINYLVSEFEKEQGINLKNDPLAMQRVKEAAEKAKIELSSAQQTDVNLPYVTADATGPKHMNVKVTRAKLESLVEDLVIRSLEPLKVALADSDLSVDEITDVILVGGQTRMPMVQAKVAEFFGKEARRDVNPDEAVAMGAAVQGGVLAGDVKDVLLLDVTPLSFGIETMGGVMTKLIEKNTTIPTKADQTFSTAEDNQSAVTIHVLQGERKQATYNKSLGQFNLEGIQPAPRGMPQIEVTFDLDADGILNVSAKDKSTGKEQKITIQASGGLTDEEIEAMVQEAEANKDADKKFEELVTARNQADQMIHGTQKQIEEAGDALPADEKEKIEAAIKALEEVKSGNDKEAIDAKTQELMQAAQKLMEIAQQKAQAQQGADAGEQPKQDDDVVDAEFEEVKDK |
| 5136 | sp|Q9HJ83|DNAJ\_THEAC | MAKDYYKILGVDRNATDEEIKKAFRELAKKWHPDLHPENKQEAEEKFKEISEAYEVLSDPQKRRMYDQTGTVDFGAGGQNFNWDNFTHYSDLNDIFNDIFGGNFASDFFSGFGRGQREEQYDLDLYTNLDITLEDAYYGTEKRIKYRRNAMCPDCNGTGAKNGKLITCPTCNGTGQQRIVRGQGFFRMVTVTTCQTCGGRGRIPEEKCPRCNGTGTVVVNEDISVKIPKGATDNLRLRVQGKGQSYNGRTGDLYVVLRVRNDRNVQRINDDLMIDQKINFAQAALGDTIEVNLFREKYSLKIPEGTQPGEVLRIKGAGMPHLNGHGSGDLLVRVNVEVPKRLTQKQKDLIREIFDIKENHRSWFH |
| 5137 | sp|Q5HNW7|DNAJ\_STAEQ | MAKRDYYEVLGVNKSASKDEIKKAYRKLSKKYHPDINKEEGADEKFKEISEAYEVLSDENKRVNYDQFGHDGPQGGFGSQGFGGSDFGGFEDIFSSFFGGGSRQRDPNAPRKGDDLQYTMTITFEEAVFGTKKEISIKKDVTCHTCNGDGAKPGTSKKTCSYCNGAGRVSVEQNTILGRVRTEQVCPKCEGSGQEFEEPCPTCKGKGTENKTVKLEVTVPEGVDNEQQVRLAGEGSPGVNGGPHGDLYVVFRVKPSNTFERDGDDIYYNLDISFSQAALGDEIKIPTLKSNVVLTIPAGTQTGKQFRLKDKGVKNVHGYGYGDLFVNIKVVTPTKLNDRQKELLKEFAEINGENINEQSSNFKDRAKRFFKGE |
| 5138 | sp|Q6F149|DNAK\_MESFL | MAKERIIGIDLGTTNSVVSIMEGGQPIILENPEGQRTTPSVVAFKNEDIIVGGAAKRQAVTNPNVVISVKSKMGTNEKIDINGKKYTPEQISAEILRYMKKYAEEKVGEKITKAVITVPAYFNDSQRKATKDAGKIAGLDVERIINEPTAAALAYGLEKKDKEEKVLVYDLGGGTFDVSILELADGTFEVLSTSGDNKLGGDNFDTQIINWLIEKIKTESGVDLKNDKMALQRLKDEAEKAKINLSSQLEVEINLPFIAMNENGPVSFSTQFSRTEFDKITKDLVERTSKPVKDALQAAKLSASDIDEVLLVGGSTRIPAVQKIVKELLGKEPNRSINPDEVVAMGAAIQGGVLAGDVTDVLLLDVTPLSLGIETMGGVMTKLIDRNTTIPTEKSQIFSTAVDNQPAVDINVLQGERPMAADNKSLGQFQLTGIKPAPKGTPQIEVTFKIDVNGIVSVIAKDKATNEEKSITISNSGALSDADIEKMIKEAEANAEADEIKRKNIELKHKAESYVAIIESSLTQEGQEIPQEQKEQAEKMVAEVKELIEKEDYEALETKVNELEQMIQMASQFAQAQTAQPEEGNSDSEENK |
| 5139 | sp|Q1IF59|DNAK\_PSEE4 | MGKIIGIDLGTTNSCVSVLENGTAKVIENAEGARTTPSIIAYANDGEILVGQSAKRQAVTNPHNTLFAVKRLIGRRFDEEVVQKDIKLVPYKIVKASNGDAWVQASGKDMAPPQISAEVLKKMKKTAEDYLGEPVTEAVITVPAYFNDSQRQATKDAGRIAGLDVKRIINEPTAAALAYGMDKAKGDHTVIVYDLGGGTFDVSVIEIAEVDGEHQFEVLATNGDTFLGGEDFDMRLIDYLVDEFKKESGMDLKNDPLALQRLKEAAEKAKIELSSAQSTDVNLPYITADATGPKHLNVKISRAKLEALVEDLVTRTIEPCRIALKDAGIDASKIDDVILVGGQTRMPMVQKAVADFFGKEARKDVNPDEAVAMGAAIQGAVLAGDVKDVLLLDVSPLTLGIETMGGVMTALIEKNTTIPTKKSQVFSTADDNQGAVTIHVLQGERKQASQNKSLGKFDLADIPPAPRGVPQIEVTFDIDANGILHVGAKDKATGKAQSIVIKANSGLSDEEVERMVRDAEANAEEDRKFEELAAARNQGDALVHSTRKMVADAGDKVTAEEKTAIEAAVVALEAAVKGDDKAAIDAKVEELSKVSAPVAQKMYAEQQAEQPQGGAQQAEPEAKHDDVVDAEFEEVKDNNKQ |
| 5140 | sp|P63970|DNAJ\_STAAM | MAKRDYYEVLGISKDASKDEIKKAYRKLSKKYHPDINKEEGADEKFKEISEAYEVLSDDNKRASYDQFGHDGPQGFGGQGFNGSDFGGFSGFGGGGFEDIFSSFFGGGRQRDPNAPQKGDDLQYTMTLTFEEAVFGTTKEISIRKDVTCETCHGDGAKPGTSKKTCSYCNGAGHVAVEQNTILGRVRTEQVCPKCNGSGQEFEEACPTCHGKGTENKTVKLEVKVPEGVDNEQQIRLAGEGSPGVNGGPAGDLYVVFRVKPSETFKRDGDDIYYKLNVSFPQAALGDEIKIPTLNNEVMLTIPAGTQTGKQFRLKEKGIKNVHGYGYGDLYVDIKVVTPTKLTDRQKELMKEFAQLNGEEINEQPSNFKDRAKRFFKGE |
| 5141 | sp|P50022|DNAK3\_SYNE7 | MGRVVGIDLGTTNSVIAVMEGGKPMVIANAEGVRTTPSVVGVSKTGERLVGELARRQLVLNPRNTFANIKRFIGRRYDELTDESKRVPYTVRRDPEGNVRIVCPQLSREFAPEEVAAMILRKLAEEASRYLGEPVTGAVITVPAYFNDSQRQATRDAGRIAGLEVKRILNEPTAASLAYGLDRRDNQTILVFDLGGGTFDVSVLKVGNGVFEVKATSGDTQLGGNDFDRRIVDWLAEQFLEAEGIDLRRDRQALQRLIEAAEKAKIELSGVSVTDINLPFITATEDEPKHLETRLTRSEFEALCEDLLERMMRPLRRALKDARLQPQDIDEVVLVGGSTRMPMVQQLVRSLIGREPNQNVNPDEVVAIGAAIQAGILAGEVKDILLLDVTPLSLGLETIGGVMKKLIPRNTAIPVRRSDIFSTAENNQTMVEIHILQGERQLAEGNKSLGRFKLTGIPPAPRGVPQVQVSFDIDANGILQVSALDKTTGREQTVTIQGASTLSQEEVKRMMKDAELYAQQDRQLKARIEKRNRAQTLIAQSERRLREISLDFGLYFAESKRRRIESTIRELKDYLERQDDRGLDLALAELQDALFDLNQETAARLRDEEGEGFFEPLKQTFASLRGDGNRDFERSWDDRGGDRWDADPWDRSRRSTPSYGYDDRRSPVSDPYRGERWVEEQTSMSRREPVRDRNGGNGSVRPEPAPRRGRPTWEEDQPPRRDRSSQPPAKPASGRRWNDGWDDDDDEWF |
| 5142 | sp|B7V1H3|DNAK\_PSEA8 | MGKIIGIDLGTTNSCVAILENGNVKVIENAEGARTTPSIIAYTNDGETLVGQPAKRQAVTNPQNTLYAVKRLIGRRFEENVVQKDIQMVPYSIVKADNGDAWVEVKGQKMAPPQISAEVLKKMKKTAEDYLGEPVTEAVITVPAYFNDSQRQATKDAGRIAGLDVKRIINEPTAAALAYGLDKAKGDHTVIVYDLGGGTFDVSVIEIAEVDGEHQFEVLATNGDTFLGGEDFDIRLIDYLVDEFKKESGINLKGDPLAMQRLKEAAEKAKIELSSTQQTDVNLPYVTADASGPKHLNVKVSRAKLESLVEDLVQRTIEPCRTALKDAGLDVSDIHEVILVGGQTRMPLVQKTVAEFFGKEARKDVNPDEAVAVGAAIQGAVLAGDVKDVLLLDVTPLTLGIETLGGVMTGLIEKNTTIPTKKSQVFSTADDNQGAVTIHVLQGERKQAAQNKSLGKFDLADIPPAPRGVPQIEVTFDIDANGILHVSAKDKATGKQQSIVIKASSGLSEDEIQQMVRDAEANAEEDRKFEELAAARNQGDALVHATRKMITEAGDKATAEDKATIEKALGELEAAVKGDDKAEIEAKMSALSQASTPLAQKMYAEQAQQGEDAPQGEQAKAADDVVDAEFEEVKDNK |
| 5143 | sp|Q14GW9|DNAK\_FRAT1 | MGKIIGIDLGTTNSCLAIMDGKTAKVIENAEGHRTTPSVVAYTDSGEILVGQAAKRQAVTNPDNTFFAIKRLIGRKYDDKAVQEDIKKKVPYAVIKADNGDAWVATKEGKKMAPPQVSAEVLRKMKKTAEDYLGEPVTEAVITVPAYFNDSQRQATKDAGKIAGLEVKRIINEPTAAALAYGVDSKKGEQTVAVYDLGGGTFDISIIEIADVDGDNQIEVLSTNGDTFLGGEDFDLALMNYLIDEFKKEQGIDLHNDKLALQRVREAAEKAKVELSSAQQTDVNLPYITADATGPKHLNIKVTRAKFESLVSDLVMRSLEPCKKALEDAGLSKSDITEVLLVGGQTRMPLVQEKVKEFFGKEPRKDVNPDEAVAVGAAIQGGVLAGDVKDILLLDVTPLSLGIETMGGVMTKLIERNTTIPTKKSQVFSTAEDNQPAVTIHVLQGEREMASANKSLGRFDLADIPPAPRGMPQIEVTFDIDANGILNVSAKDKATGKEQNIVIKSSSGLSEEDIEKMVQDAEANAEADKKFHDLVTARNTADNLIHSSRKAIQELGDKVTAAEKEKIEEACKELEAATKGDDKQAIESKTKALEEAFAPIAQKAYAEQAQAAVAQGGAKAEEPKKEEDVVDADFEDVEDDKK |
| 5144 | sp|Q5HV33|DNAK\_CAMJR | MSKVIGIDLGTTNSCVAVYERGESKVIPNKEGKNTTPSVVAFTDKGEVLVGDSAKRQAVTNPEKTIYSIKRIMGLMINEDAAKEAKNRLPYHITERNGACAIEIAGKIYTPQEISAKVLMKLKEDAEAFLGESVVDAVITVPAYFNDAQRKATKEAGTIAGLNVLRIINEPTSAALAYGLDKKDSEKIVVYDLGGGTFDVTVLETGDNVVEVLATGGNAFLGGDDFDNKLIDFLANEFKDETGIDLKNDVMALQRLKEAAENAKKELSSANETEINLPFITADASGPKHLVKKLTRAKFEGMIDSLVAETITKINEVVSDAGLKKDEIKEIVMVGGSTRVPLVQEEVKKAFNKDLNKSVNPDEVVAIGAAIQGAVIKGDVKDVLLLDVTPLSLGIETLGGVMTKIIEKGTTIPTKKEQVFSTAEDNQSAVTINVLQGEREFSRDNKSLGNFNLEGIPPAPRGMPQIEVTFDIDANGILTVSAKDKATGKAQEIKITGSSGLSEEEINNMVKDAELHKEEDKKRKEAVDARNAADSLAHQVEKSLSELGEKVAAADKENIQKALDDLRETLKNQNASKEEIESKMKALSEVSHKLAENMYKKDEPNTANDKKKKDDDVIDAEVE |
| 5145 | sp|Q6LUA7|DNAK1\_PHOPR | MGRIIGIDLGTTNSCVAVLDGDKPRVIENAEGERTTASVVAYTQDGETLVGQPAKRQAVTNPENTLYAIKRLIGRRFEDEEVQRDLKIMPFKIVKADNGDAWVEAKGQKMAAPQVSAEILKKMKKTAEDFLGEEVTAAVITVPAYFNDAQRQATKDAGRIAGLEVKRIINEPTAAALAYGLDKKGGDRTIAVYDLGGGTFDISIIEIDEVEGEKTFEVLSTNGDTHLGGEDFDNRLINYLVEEFKKEQGMDLRNDPLAMQRLKEAAEKAKIELSSAQQTDVNLPYITADATGPKHMNIKVTRAKLESLVEDLVQRSLEPLKVALSDAGLSVSEITDIIVVGGQTRMPMVQAKVAEFFGKEPRKDVNPDEAVAVGAAVQAGVLAGDVKDVLLLDVTPLSLGIETMGGVMTKLIEKNTTIPTKANQVFSTAEDNQSAVTIHVLQGERKQSSYNKSLGQFNLEGIQAAARGMPQIEVTFDLDADGILHVSAKDKSTGKEQKITIQSSSGLSEEDIEKMVQEAEANKESDKKFEELVTARNQADQLIHGTRKQVEEAGEALPAEDKEKIEAAVSELEEARKAEDKEAIDAKVQALVAASQKLMEIAQQQAQAQQAPGGEGEQEAKQDDNVVDAEFEEVKDEKK |
| 5146 | sp|A7HZ39|DNAK\_PARL1 | MAKVIGIDLGTTNSCVAVMEGSSAKVIENSEGMRTTPSMVAFTQDGERLVGQSAKRQAVTNPTNTLFAIKRLIGRSYDDPTTQKDKGMVPYDIVKAPNGDAWVEAHGEKYSPSQISAFILQKMKETAESYLGEKVEKAVITVPAYFNDAQRQATKDAGKIAGLEVLRIINEPTAAALAYGLDKKEGELIAVYDLGGGTFDVSILEIGDGVFEVKSTNGDTFLGGEDFDMRLVNYLADEFKKENGIDLRGDKLALQRLKEAAEKAKIELSSASQTEVNLPFITADASGPKHLTMKITRSKLEALVADLIQRTIDPCKAALKDAGVTAGQINEIVLVGGQSRMPKIREAVKQFFGKEPNMSVNPDEVVAMGAAIQAGVLQGDVKDVLLLDVTPLSLGIETLGGVFTRLIERNTTIPTKKAQTFSTAEDNQSAVTIRVFQGEREMAADNKLLGQFDLVGIPAAPRGVPQIEVAFDIDANGIVNVSAKDKATNKEQTIRIEASGGLSEADIEQMVKDAEAHAEEDKKRREEVETRNHAEALANATEKTLQENADKIGGDVKADVEAALEALRTALKEGSSEDIKAKMEALTQTSMKMGEALYKSAQAEAESEAAGGTDASGDDVVDADFEEVDDDKKDQDKSA |
| 5147 | sp|O27352|DNAJ\_METTH | MAKRDYYEILGVDRGADKKEIKKAYRRLARKYHPDVSDDPDAAEKFKEISEAYAVLSDDEKRARYDRFGHAGMDGFSQEDIFNNINFEDIFSGLGFDIGNIFDMFGFGGGRRHGPQRGADISYTLDISLEDAYNGLETDIRVPHTKKCPVCHGSRAEPGTGTRTCQTCGGSGQVRQVRNTILGQMMNITTCPDCQGEGTVVEKPCSNCNGKGVVRKTSTIHVKVPAGVETGSRLRVPGEGEMGLRGGEPGDLYVVIKVKPHSIFRREGANLYTEKPISFVQAALGDTVEVPTLDRPVKLRIPAGTQSGTTFRVKGHGMPHLKWNGYGNLYVKVKVVTPRKLSPRQKELLREFASISGDEIHEDKGFFDKVKDAIIH |
| 5148 | sp|Q3AF07|DNAJ\_CARHZ | MKRDYYEILGVARNATPEEIKKAYRKLARKYHPDVNKDDPNAAEKFKEINEAYEVLSDPEKRARYDQFGHAGVDGNFAGQGGFGGGAGINFEDIFSGFGGFGDLFDMVFGSGRKARQGPVPGDDIEAVLELTLEEAVFGGEKELRVTRTETCGHCHGNGAEPGTPIITCPTCQGRGQIHQEVKTLFGRMVRSQVCSTCRGEGKIPKTPCRECGGSGLVRKTRSITVKIPPGIDHGHRLRIAGGGEAGRFGGPPGDLYVYIKIKPHKLFKREDIHLKLEKEISFVQAALGAKVEIPTIDGGTEILEIPEGTQTGTVFTIKGKGVPVVNGSGRGNLYVTVKVVTPTKLTERQKQLLREFEEISKQKEETFKEKFNKFKNKFAL |
| 5149 | sp|A8GV67|DNAJ\_RICB8 | MSQDYYQILGVSKTANSADLKKAYHKLAKQYHPDNAAAGDTNAEKKFKEINAAYEVLKDEQKRAAYDRFGHDAFQNQQARGGAGSQGGHPFGADINDIFGDFFSDFMGGGGRRKPTSSKVRGSDLKYNLTINLEEAFHGVEKNISFSSEVKCDTCHGSGSEKGETTTTCDACGGVGATRVQQGFFMIEQTCHKCQGNGQIIKNPCKKCHGLGRYHKQRNLSVNIPAGVENGTRIRHPGEGEAGIRGGNNGDLYVDIAIKPHDIYKVDGANLHCKLPISFVNAALGGEVAVPVIEGGKVNLTIPAGTQNGDQLRLCGKGMSKIRSTIRGDMLAHVHVEVPKNLSKRQRELLEELRGESANEKENDGSFFNKMKSLWS |
| 5150 | sp|O82133|DRE2B\_ARATH | MAVYEQTGTEQPKKRKSRARAGGLTVADRLKKWKEYNEIVEASAVKEGEKPKRKVPAKGSKKGCMKGKGGPDNSHCSFRGVRQRIWGKWVAEIREPKIGTRLWLGTFPTAEKAASAYDEAATAMYGSLARLNFPQSVGSEFTSTSSQSEVCTVENKAVVCGDVCVKHEDTDCESNPFSQILDVREESCGTRPDSCTVGHQDMNSSLNYDLLLEFEQQYWGQVLQEKEKPKQEEEEIQQQQQEQQQQQLQPDLLTVADYGWPWSNDIVNDQTSWDPNECFDINELLGDLNEPGPHQSQDQNHVNSGSYDLHPLHLEPHDGHEFNGLSSLDI |
| 5151 | sp|Q9LM93|DPM1\_ARATH | MADEMETKGEKKYKYSIIIPTYNERLNIAIIVYLIFKHLRDVDFEIIVVDDGSPDGTQEIVKQLQQLYGEDRILLRARAKKLGLGTAYIHGLKHATGDFVVIMDADLSHHPKYLPSFIKKQLETNASIVTGTRYVKGGGVHGWNLMRKLTSRGANVLAQTLLWPGVSDLTGSFRLYKKSALEDVISSCVSKGYVFQMEMIVRATRKGYHIEEVPITFVDRVFGTSKLGGSEIVEYLKGLVYLLLTT |
| 5152 | sp|A5A6J4|F107A\_PANTR | MYSEIQRGRADIGGLMARPEYREWNPELIKPKKLLNPVKASRSHQELHRELLMNHRRGLGVDSKPELQRVLEHRRRNQLIKKKKEELEAKRLQCPFEQELLRRQQRLNQLEKPPEKEEDHAPEFIKVRENLRRIATLTSEEREL |
| 5153 | sp|G5ECG2|FOS1\_CAEEL | MFEQPSSTTNTTTSSGSGSDSNHYFELGPRNPINQAHPTSVIVPPRQHHHQIHQQQTDNSPLTPCTPYYPSNAYGLPLFFGTDFLQFQPSDIPSPLTPNISSPLTPHPFGPIPAIPTNQIYNRTFTDFYSTAASSPMVQYSTVKKSSAGRKPKEEDNMEDDDDDKRLKRRQRNKEAAARCRQRRIDLMKELQDQVNDFKNSNDKKMAECNNIRNKLNSLKNYLETHDCKLSREERTHEINRLIIPPSTVPPSQPYLQHSLRVHPPRADSVPYSIRSGHSSSSSEQHSPVEDYKPSIDQLLLPPISCIQNIKDRNINSMPPPALPASTSAAGIHVITSIPVSHANSLHGRSENVFAEPERKIPKIELDQTLTSLTMPDDVERPSALPTLSRIVENQPITTPSRPFRLGGEYQNQTPQSTGNGLFGGPPGPFDLLSSNTGLTPSGQPTMNFVSTPTPIQPHPDADLRPL |
| 5154 | sp|P40106|GPP2\_YEAST | MGLTTKPLSLKVNAALFDVDGTIIISQPAIAAFWRDFGKDKPYFDAEHVIQVSHGWRTFDAIAKFAPDFANEEYVNKLEAEIPVKYGEKSIEVPGAVKLCNALNALPKEKWAVATSGTRDMAQKWFEHLGIRRPKYFITANDVKQGKPHPEPYLKGRNGLGYPINEQDPSKSKVVVFEDAPAGIAAGKAAGCKIIGIATTFDLDFLKEKGCDIIVKNHESIRVGGYNAETDEVEFIFDDYLYAKDDLLKW |
| 5155 | sp|A7ZEB6|GRPE\_CAMC1 | MSEEVKEQNLPEVEPVQEAASDSVNLDALGDISKVEKLEKELGEITDKYYRANAEFENIKKRYEKEKADVASYANEKFARDLLPVIDALEIAANFDPEDDEFAKKIKEGILITINQFKKCFEKHGVSEIATDADFDPNVHNAVLRVDSEEKQSGQIVQALQKGYMINGRVLRPAMVSVAN |
| 5156 | sp|Q2VYM5|GRPE\_MAGSA | MTQDQTAEQMPAAESADQSADQGPAAESAAPPAVDSERIKELEAEIAKLKNDVLYAKAETENTRRRLEQQAEDRGRYAISNIAKDVLSVADNLRRALDSVPASAREGNESLTALTTGVEMTERELLATFERYGIKLVAAQGERFDPNLHQAMMEMEDPSQIEGTVVLVMQAGYTLHDRLLRPALVGVAKGGPKSGGNNVDTKV |
| 5157 | sp|Q5HFH9|GRPE\_STAAC | MTNKDESVKKNTESTVEETNVKQNIDDSVEQAEESKGHLQDEAIEETSDENVIEEIDPKDQKINELQQLADENEEKYLRLYAEFENYKRRIQKENEINKTYQAQRVLTDILPAIDNIERALQIEGDDETFKSLQKGVQMVHESLINALKDNGLEVIKTEGEAFDPNIHQAVVQDDNPDFESGEITQELQKGYKLKDRVLRPSMVKVNQ |
| 5158 | sp|A6Q422|GRPE\_NITSB | MAEKKRAQEQEKVQEDQKMQNEQNECEEVEKKLQECEEKYLRVHADFENTKKRLEREKIQAIEYSLEKFAQDLLPALDSLDMALAAVSHDNLNAEEAVKELKKGIELTIDQFIKAFNKNGIEVIEIEEGGEFNPHLHEAILQVDDAEKKAGQIVQVIQKGYKYKERILRPAKVSVAKGNE |
| 5159 | sp|Q7V9C9|GRPE\_PROMM | MSGDAPTPAHDPAAEGLEASVPLESVASINSDEGQSSAQSAPLADNEARLQQLEQEHSSLREEHETLRSQYMRIAADFDNFRKRQSRDQDDLRFQLICTTLSEILPVVDNFERARQQLEPQGEEAQALHRSYQGLYKQLVDVLKQMGVASMRVVGQVFDPTLHEAVSREPSEEHPEDVVTEELQRGYHLNGRVLRHALVKVSMGPGPQSGASPSSAQPNDDSTATFQGEADPAQPGV |
| 5160 | sp|Q9KJU0|GRPE\_PEWBP | MQEFMNFEECSKQNTNNCKQHEKNIDENNCSCKEKKVQSKKVSSDHSSSEDNASSDINSNKAETLTLNCGDQSDNKNSISDIESNKFIPNENDFQMLKKQLNDLKAENVNLKRDLQEAHQQRTNDNLKYLADFDNFKKRITVQTNREIKYALTDFIKNILIPLEQFEKVLEMPKVDDSVKSFLLGFKMIHKQVKDILQKEGVEEIKALGVKFDPNFHYALEKISDLKQPNGINVLVLQKGFLYKDLVIKPAMVKVNEWSDKNND |
| 5161 | sp|P78017|GRPE\_MYCPN | MSENSLTITEILSSIRTLLVKHNKAKVTQIEKELLQAVAELEKKFKQQVQNFNELQQKIPNLQKVNEEFRLKVEKIQEEAQKKIQEKVAELTIKSKEELENAKKYVIEKSIDQPLIIIDQFEIALSYAQKDPQVKNYTTGFNMVLDAFSRWLEGFGVTKIAIEPGAQFDEKVMAALEVVPSDQPANTVVKVSKSGYKLHDKVIRFASVVVSQGNKTE |
| 5162 | sp|A9KTL2|GRPE\_SHEB9 | MSNESIKAEQDLIQEGVESEVSTAEASLIDELTQANFRIEELEQLLAEALAKVEEQKDSVIRAAAEVDNIRRRAAMDVEKANKFALEKFANELLPVLDNMERALMGTNPEDEATKSIYQGVELTQKSLLTAVAKFGVKQIDPQGQSFNPDQHQAIGMQPSAEFPANTVMLVMQKGYELNSRLLRPAMVMVSQGGPNQESATIDIEA |
| 5163 | sp|Q07ZD3|GRPE\_SHEFN | MSNESNNTSQDQVEEAVTPEIVVDEASLMDELTQANFRIEELEQLLAESETALAERKDVEMRAAAETQNIRTRAAKDVEQARKFALEKFANELLPVIDNMERALQGTNPEDEATKAIYEGVELTMKGFLTSVEKFGVTQVNPQGQAFNPEHHQAIGMQPSAEYPANTVMMVMQKGYLLNDRLLRPAMVMVSQGGGSVDVEA |
| 5164 | sp|Q72Q67|HFQ\_LEPIC | MSAKNNIQDQLLNTARKDKLDLTIYLLNGVPLKGKVVSFDNFTIVLEQENKQSLVYKHAISTIIPAKIIKLYTEEAKDNKDAAQG |
| 5165 | sp|A7MX76|HFQ\_VIBCB | MAKGQSLQDPFLNALRRERIPVSIYLVNGIKLQGQIESFDQFVILLKNTVNQMVYKHAISTVVPARPVSHHSGDRPQGDRPQEKSED |
| 5166 | sp|B3EWP0|HFQ\_PSEAI | MSKGHSLQDPYLNTLRKERVPVSIYLVNGIKLQGQIESFDQFVILLKNTVSQMVYKTAISTVVPSRPVRLPSGDQPAEPGNA |
| 5167 | sp|Q214Q4|HFQ\_RHOPB | MAADRAQNLQDTFLNHVRKTKTPLTIFLVNGVKLQGIVTWFDNFCLLLRRDGHSQLVYKHAISTIMPGAPIQLFEGGEDAPA |
| 5168 | sp|B1KHU8|HFQ\_SHEWM | MAKGQSLQDPFLNALRRERVPVSIYLVNGIKLQGQVESFDQFVILLKNTVSQMVYKHAISTVVPARPFNVSAHHSSPAPTPAGGFNGQNDETSE |
| 5169 | sp|Q0T3G3|HCHA\_SHIF8 | MTVQTSKNPQVDIAEDNAFFPSEYSLSQYTSPVSDLDGVDYPKPYRGKHKILVIAADERYLPTDNGKLFSTGNHPIETLLPLYHLHAAGFEFEVATISGLMTKFEYWAMPHKDEKVMPFFEQHKSLFRNPKKLADVVASLNADSEYAAIFVPGGHGALIGLPESQDVAAALQWAIKNDRFVISLCHGPAAFLALRHSDNPLNGYSICAFPDAADKQTPDIGYMPGHLTWYFGEELKKMGMNIINDDITGRVHKDRKRLTGDSPFAANALGKLAAQEMLAAYAS |
| 5170 | sp|B8I2Q2|HFQ\_RUMCH | MVKNTINLQDIFLNQVRKEHIAVTIYLTNGFQLKGLVKGFDNFTVVLDTDGKQQLVYKHAISTISPMKSVNLIFNEQGKE |
| 5171 | sp|B0K9L8|HFQ\_THEP3 | MASSKAAINLQDIFLNQVRKEHVPVTVYLINGFQLKGLVKGFDNFTVVLESENKQQLLIYKHAISTITPQKPVIFSASDKDEKREE |
| 5172 | sp|A2RVJ8|HIT4\_ARATH | MKKGAKRKGVSKAGRKAAVAETQNDEVIEETTKTTQEESQQHEEEVVDEVKENGEEEEAKGDQEEEEDAKPDSLEEDEENQEDEVKAEEVKEEVEKKPVARRGGKRKRATKKDTEIKDEKKPVPKAKKPRAAKVKEEPVYFEEKRSLEDLWKVAFPVGTEWDQLDALYEFNWDFQNLEEALEEGGKLYGKKVYVFGCTEPQLVPYKGANKIVHVPAVVVIESPFPPSDKIGITSVQREVEEIIPMKKMKMDWLPYIPIEKRDRQVDKMNSQIFTLGCTQRRSALRHMKEDQLKKFEYCLPYFYQPFKEDELEQSTEVQIMFPSEPPVVCEFDWEFDELQEFVDKLVEEEALPAEQADEFKEYVKEQVRAAKKANREAKDARKKAIEEMSEDTKQAFQKMKFYKFYPQPSPDTPDVSGVQSPFINRYYGKAHEVL |
| 5173 | sp|B9MFY1|HFQ\_ACIET | MSNKGQLLQDPFLNALRREHVPVSIYLVNGIKLQGQIESFDQYVVLLRNTVTQMVYKHAISTIVPGRAVNFSTAEPAADGDNQ |
| 5174 | sp|B1KSA0|HFQ\_CLOBM | MTKVVNNLQDIFLNGARKNRIPVTIYLTNGFQLKGFVKGFDNFTVILDSDGKQMMIYKHAISTINPAKPLLFVQNPNGDDYKDKE |
| 5175 | sp|A6SZW5|HFQ\_JANMA | MTNKGQLLQDPFLNALRKEHVPVSIYLVNGIKLQGHIESFDQYVVLLRNTVTQMVYKHAISTVVPARAVNLSLESEAE |
| 5176 | sp|Q9JHS2|HIF3A\_RAT | MDWDQDRSSTELRKEKSRDAARSRRSQETEVLYQLAHTLPFARGVSAHLDKASIMRLTISYLRMHRLCAAGEWNQVRKEGEPLDACYLKALEGFVMVLTAEGDMAYLSENVSKHLGLSQLELIGHSIFDFIHPCDQEELQDALTPRPSLSKKKSEAATGRHFSLRMKSTLTSRGRALNLKAATWKVLHCSGHMRAYKPPAQTSPAGSPRSEPPLQCLVLICEAIPHPASLEPPLGRGAFLSRHSLDMKFTYCDERIAEVAGYSPDDLIGCSAYEYIHALDSDAVSRSIHTLLSKGQAVTGQYRFLARTGGYLWTQTQATVVSGGRGPQSESIICVHFLISRVEENGVVLSLEQTEQHTRRPPQLGTSSKKGIPGNSLDPPAPRILAFLHPPALSEASLAADPRRFCSPDLRRLMAPILDGPPTAATPSTPQAARRPQSPLPADLPDQLAVGLENAHRLSTARKNKTMETDLDIAQDPDTPDLEMLAPYISMDDDFQLNSSEQLPKVHRRPPRTARRPRARSFHGLSPPIPEATLLPRWGSDPRLNCSSPSKGDPPTAPLTPRTRKRALAQSSEDKGLELLETKPPKRSPRLEPGSVLLPPLSLSFLLQGRQLPGNQPDPRAPLVDSHEPLGLAPSLLSLYQHEETIQSRNHFLPAAGLAQTH |
| 5177 | sp|A7NBS2|HFQ\_FRATF | MSRISSLQDPFLNALRKEKVSVSVYLVNGIKLQGQVEAFDQFCIVLRNTVNQMVYKHAISTIVPAKSVRMVYSSFNPYHQNSNDEQDENVDDIHSDDLEIQENEGNIHE |
| 5178 | sp|B7HKR8|HFQ\_BACC7 | MKQSINIQDQFLNQLRKENTFVTLYLLNGFQLRGLIKGFDNFTVLLETEGKQQLIYKHAISTFVPQKNVSIELE |
| 5179 | sp|Q5ZZK1|HFQ\_LEGPH | MSKNHLLQDPFLNELRKEKVPVSVFLVNGIKLHGIIDSFDQYVVMLKNSITQMVYKHAISTVVPSRMVKIPAEESSGEEEGTVAD |
| 5180 | sp|Q84MN7|HFA2A\_ORYSJ | MNPLRVIVKEEELDFAAAAAAAAAGEGSPSSWAVGVMDLPRPMEGLGEAGPPPFLCKTYEVVDDPGTDTVISWGFAGNSFVVWDANAFAAVLLPRYFKHSNFSSFVRQLNTYGFRKVDPDRWEFANEGFLRGKKELLKTIKRRRPPPSSPPSSSSSSSSSQHQQQPAAACLEVGQFGRDGVVNRLQRDKSVLIAEVVKLRQEQQTTRAQMQAMEERISAAEQKQQQMTVFLARAMKNPGFLQMLVDRQAGQHGARNRVLEDALSKKRRRPIEYLLTRNGETCAAGESAAMLAADGVAEPDGDTTPRGDGGGGGGGDTESFWMQLLSLGLEEKQREDGVAGGVQESNSGGADVDNDEEDDDDDVDVLVQSIYHLSPK |
| 5181 | sp|Q67U94|HFB4C\_ORYSJ | MERCGSWSDCEAAAAAAQKAVPAPFLTKTYQLVDDPATDHIVSWGDDRVSTFVVWRPPEFARDILPNYFKHNNFSSFVRQLNTYGFRKVVPERWEFANEFFRKGEKQLLTEIHRRKTSSASTASPSPPPFFAPPHFPLFHHPGVAAAQHHHAFVGDDGVVAAHGIGMPFPQPHWREPNLPVATRLLALGGPAPSPSSAEAGGAGRAATAAVLMEENERLRRSNTALLQELAHMRKLYNDIIYFVQNHVRPVAPSPAAAAFLQGLGMQARKKPAAANVLNNSGGSTTSSSSLTIAEEPSPPPQQQHLAGEKSGGEAGNSSAARSSAPTKLFGVHLSAAPCGAGSKRASSPEEHPPTSPATKPRLVLECDDLSLTVAPSSSSQQQLSAASSPTSTS |
| 5182 | sp|A8AZN1|HSLO\_STRGC | MDKIIKTISENGSFRAYVLDSTETVRTAQEKHQTQASSTVALGRTLIASQILAANEKGQTKITVKVLGTSSLGAIITVADTEGNVKGYVQNPGVDIKKTATGEVLVGPFVGQGEFLVITDYGTGNPYNSMTPLISGEIGEDLAFYLTESQQTPSAVGLNVLLDENDKVKVAGGFLVQVLPGAKEAEIARFEKRIQEMPAISKLLESDDHIEALLAAIYGDEPYKRLSEEEIRFQCDCSKERFMNALATLPKADLEEMRDQDQGAEIICQFCQTAYHFDQNDLEELIRDKS |
| 5183 | sp|Q2GJI3|HTPG\_ANAPZ | MADIEELKFDAEVGKVLSLVVHSLYTNKDIFLRELLSNASDACDKLRHEFLSNHDLMEEGEELKVVISVDKDSKQLSICDNGIGMNRDELIANLGTIASSGTQRFLEALGGDKAKGYDLIGKFGVGFYSVFMVASEVVVDTCRAGESVGYRWRSSGDGGFTIEKLGEDVPRGTKITLTLKEDESGFLDKFRIEHVVTTYSDHLGYPVYFLDEKGEEEKLNSGIAIWTKPKAEVTAAEHLEFFRSVAHIGSEPWMVIHNKNEGAIEYTNLLYIPSVKPFDLFHPDRRCSVKLYVNRVFITEDNVQIIPQYLRFIRGVIDSSDLPLNISRETLQNNRIVEKIKTSVTKKVLSALKEKAESDHESYSKFWENFGPVLKEGLCEAMDTESREGVLSVCKFHTSACAAGELVSLADYISRMKPGQESIFYLSGDDLESTKRSPQIEKLVSSGIEVILLVDPVDDFWTSVVSEYKGVPFKSVMRVGEKDLEKCIGASDDSGDKTSEDSGESASDKESIGSFIEYLKKVLDGVVSDVRVSKKLTTSLVCLAVPDNSMDIRMERFLREQKQLNYKGNRILEINIDHPIAKSLLKEHEARGESELLNGIVHLLYDEACIIEGEEIRSTVDFASRINGVLAKIFSSK |
| 5184 | sp|Q0TU16|HTPG\_CLOP1 | MEKREFKAESKRLLDIVINSIYTNREIFLRELISNASDAIDKVYYKTLGDSSLTFNKDDYYIKIKPNKEERTLTISDKGIGMTEKELDENLGVIAKSGSLQFKKENEIKDGFDIIGQFGVGFYSGFLVADKITVITKAFGADKAYKWESDGVDGYTISEAEKDSFGTDIILHLKANDEDENYDEFLEEYKLKSLIKKYSDFIRYPIKLDVTKSRVKEGTENEHEEYVEEETVNSMVPLWRRNKNELTDDDYNNFYVEKRFGFDKPLRHMHISVDGMISYNSILYIPENIPYDYYTKEYEKGLELYSNGVLIMEKCSELLPDYFGFVKGIVDSQDLSLNISREMLQHDRQLSRIAKNIKTKIKNELESMMKNDRESYEKFYKSFGRQLKYGVYDDFGMNKDELKDLLMFYSSKEKKMVSLAEYVERMAEDQKYIYYAVGESNERIEKMPQTEMVLDKGYEILYFTEDVDEFAIKMLMNYKEKEFKSVSSGDLGIESEEENKKENEENKGIFEAMKEALGEKISAVKASSRLKNYPVCLSSEGEVSIEMEKILSAMPNNQGVKAQKVLEVNTNHEVFNSLKDALENDKDKFNLYTKLLYNQALLVEGLSIEDPVDFTNDICKLMK |
| 5185 | sp|Q1CUU4|HTPG\_HELPH | MSNQEYTFQTEINQLLDLMIHSLYSNKEIFLRELISNASDALDKLNYLMLTDEKLKGLNITPSIHLSFDSQKKTLTIKDNGIGMDKNDLIEHLGTIAKSGTKSFLSALSGDKKKDSALIGQFGVGFYSAFMVASKIVVQTKKVTNHQAYAWVSDGKGKFEISECVKEEQGTEITLFLKEEDSHFASRWEIDGIVKKYSEHIPFPIFLTYTDTKFEGEGDHKKEVKEEKCDQINQASALWKMNKSELKDKDYKDFYQSFAHDNSEPLSYIHNKVEGSLEYTTLFYIPSKAPFDMFRVDYKSGVKLYVKRVFITDDDKELLPSYLRFVKGVIDSEDLPLNVSREILQQNKILANIRSASVKKILSEIERLSKDEKNYHKFYEPFGKVLKEGLYGDFENKEKLLELLRFYSKDKEKLISLKEYRENLKENQKSIYYLLGENLDLLKASPLLEKYAQKGYDVLLLSDEIDAFVMPGVNEYDKTPFRDASHSESLKELGLEEINDEVKDQFKDLMKAFEENLKDEIKGVELSSHLTSAVALIGDEQNAMMANFMRQMGQSVPESKKTLELNPNHAILQKLLKCEDKEQLSAFIWLLYDGAKLLEKGALKDAKSFNERLNSVLLKAL |
| 5186 | sp|P81876|HTPG\_ACICA | SEXASQNYSFQAEVAQ |
| 5187 | sp|C3KXP4|HTPG\_CLOB6 | METKQFKAESKRLLDLMINSIYTHKEIFLRELISNSSDAIDKIYYKTLTDDSLKFERDDYYIRVVSDKENRILKIADTGIGMTKEELENNLGVIAKSGSLQFKKENEVKEGYDIIGQFGVGFYSAFLVSDDVTVISKAFGSNEAYKWNSKGAEGYTIEPCEKEAYGTEIILKIKDNTEEENYDEFLEEYTLKSIIKKYSDFIRYPIKMDLTKTKPKEDNKEEFEEYKEEETINSMVPIWRKNKNELKSEDYENFYAEKHYGFDKPIKYIHTSVDGVVSYNAILFIPETTPYDFYTKEYEKGLELYSSGVLIMNKCGDLLPDYFGFVKGIVDSEDLSLNISREILQHDRQLKLIAKNIKTKIKNELESLLKKERDKYEKFYESFGRQLKYGVYSDFGSNKDILQDLLMFYSSKEKKMVTLAEYVSRMPEEQKYIYYAVGESNERIEKLPQIEGVLDKGYEVLYFTDDIDEFAIKMLMNYKEKEFKSVSSGDLGIEGEEKENTSNSDDKKNKELFESMKDILSGKVKDVRASKRLKNHPVCLANEGELSIEMEKVLNAMPNNQNIKADKVLEININHDVFKSLKEAYEGDKEKLKLYTDLLYNQALLIEGLAINDPVEFTNNICKIMK |
| 5188 | sp|A0KQI8|HSLU\_AERHH | MSEMTPREIVHELDRHIIGQADAKRAVAVALRNRWRRMQLDEEMRHEVTPKNILMIGPTGVGKTEIARRLAKLANAPFIKVEATKFTEVGYVGKEVDSIIRDLTDAAIKLVRETEMEKMKYRAEEAAEERILDALLPNPRNSWGEEEKADNSNTRQIFRKKLREGQLDDKEIELELAASPMGVEIMTPPGMEEMANQLQGLFQNLGQNQKKKRKIKVKEAMKALIEEEAARLVNPEELKQKAIAAVENNGIVFLDEIDKICKRGESSGPDVSREGVQRDLLPLVEGCTVNTKHGMVKTDHILFVASGAFQIAKPSDLIPELQGRLPIRVELTALTTDDFERILTEPNASLTDQYQALMATEGVKIEFTKDGIRRLAEAAWQVNERTENIGARRLHTVMERLMEDISYDASEKSGETFVIDTDYVNAHLGKLIEDEDLSRFIL |
| 5189 | sp|O94641|HS104\_SCHPO | MADYPFTDKAAKTLSDAYSIAQSYGHSQLTPIHIAAALLSDSDSNGTTLLRTIVDKAGGDGQKFERSVTSRLVRLPAQDPPPEQVTLSPESAKLLRNAHELQKTQKDSYIAQDHFIAVFTKDDTLKSLLAEAGVTPKAFEFAVNNVRGNKRIDSKNAEEGFDALNKFTVDLTELARNGQLDPVIGREDEIRRTIRVLSRRTKNNPVLIGEPGVGKTSIAEGLARRIIDDDVPANLSNCKLLSLDVGSLVAGSKFRGEFEERIKSVLKEVEESETPIILFVDEMHLLMGAGSGGEGGMDAANLLKPMLARGKLHCIGATTLAEYKKYIEKDAAFERRFQIILVKEPSIEDTISILRGLKEKYEVHHGVTISDRALVTAAHLASRYLTSRRLPDSAIDLVDEAAAAVRVTRESQPEVLDNLERKLRQLRVEIRALEREKDEASKERLKAARKEAEQVEEETRPIREKYELEKSRGSELQDAKRRLDELKAKAEDAERRNDFTLAADLKYYGIPDLQKRIEYLEQQKRKADAEAIANAQPGSEPLLIDVVGPDQINEIVARWTGIPVTRLKTTEKERLLNMEKVLSKQVIGQNEAVTAVANAIRLSRAGLSDPNQPIASFLFCGPSGTGKTLLTKALASFMFDDENAMIRIDMSEYMEKHSVSRLIGAPPGYVGHEAGGQLTEQLRRRPYSVILFDEIEKAAPEVLTVLLQVLDDGRITSGQGQVVDAKNAVIIMTSNLGAEYLTTDNESDDGKIDSTTREMVMNSIRGFFRPEFLNRISSIVIFNRLRRVDIRNIVENRILEVQKRLQSNHRSIKIEVSDEAKDLLGSAGYSPAYGARPLNRVIQNQVLNPMAVLILNGQLRDKETAHVVVQNGKIFVKPNHEANANGSADIDMDGIDDDVNDEELE |
| 5190 | sp|P08418|HSP70\_SCHMA | MPNAIGIDLGTTYSCVGVFQHGKVEIIANDQGNRTTPSYVAFTDSERLIGDGAKNQVAMNPTNTVFDAKRLIGRRFDDPSVQSDMKHWPFEVTQVGGKLKICVEYKGEKKMFSAEEISSMVLTKMKEVAESYLGRTVSDAVITVPAYFNDSQRQATKDAGAIAGLNVLRIINEPTAAAIAYGLDKKVGGERNVLIFDLGGGTFDVSILTIEDGIFEVKSTAGDTHLGGEDFDNRMVDHFVKEFQKKYNKDIRSNKRALRRLRTACERAKRTLSSSAQTNLEIDSLCDGTDFYTVITRARFEELNADLFRGTLDPVEKALRDAKMDKSQIHDIVLVGGSTRIPKVQKLLQDFFNGKELNKSINPDEAVAYGAAVQAAILSGEKCEAVQDLLLLDVAPLSLGLETAGGVMTALIKRNTTIPTKQTQTFTTYSDNQPGVLIQVFEGERALTKDNNLLGKFELSGIPPAPRGTPQIEVTFDIDANGILNVSAVDKGTGKQNKITITNDKGRLSKEEIERMVADADKYKAEDEKQRDRVSAKNSLESYVYTMKQQVEGELKEKIPESDRQVIISKCEDTISWLDVHQSAEKHEYESKREELEKVCAPIITKVYQAGGMPGGMHEASGAGGGSGKGPTIEEVD |
| 5191 | sp|Q07160|HSP20\_NIPBR | MALWPVDRFERMMMEDPMRAMDRFGRMGDMDHWMSRRMMPYWRDADHSMLHVGNQKEVINDDKKFAVSLDVKHFKPNELKVQLDDRDLTVEGMQEVKTEHGYIKKQFVHRWSLPEDCDLDAVHTELDNHGHLSIEAPEDGPSQKFQSSAHSSSAEEEEVGDIEPVNKRILYK |
| 5192 | sp|C1FPN9|HTPG\_CLOBJ | METKQFKAESKRLLDLMINSIYTHKEIFLRELISNSSDAIDKIYYKTLTDDSLKFERDDYYIRVVSDKENRILKIADTGIGMTKEELENNLGVIAKSGSLQFKKENEVKEGYDIIGQFGVGFYSAFLVSDDVTVISKAFGSNEAYKWNSKGAEGYTIEPCEKEAYGTEIILKIKDNTEEENYDEFLEEYTLKSIIKKYSDFIRYPIKMDLTKTKPKEDNKEEFEEYKEEETINSMVPIWRKNKNELKSEDYENFYAEKHYGFDKPIKYIHTSVDGVVSYNAILFIPETTPYDFYTKEYEKGLELYSSGVLIMNKCGDLLPDYFGFVKGIVDSEDLSLNISREILQHDRQLKLIAKNIKTKIKNELESLLKKERDKYEKFYESFGRQLKYGVYSDFGSNKDILQDLLMFYSSKEKKMVTLAEYVSRMPEDQKYIYYAVGESNERIEKLPQIEGVLDKGYEVLYFTDDIDEFAIKMLMNYKEKEFKSVSSGDLGIEGEEKENTSNSDDKENKELFESMKDILSGKVKDVRASKRLKNHPVCLANEGELSIEMEKVLNAMPNNQNIKADKVLEINMNHDVFKSLKEAYEGDKEKLKLYTDLLYNQALLIEGLAINDPVEFTNNICKIMK |
| 5193 | sp|Q1QHD7|HTPG\_NITHX | MTSTIDSDGAAESRVFEADVAKLLQMMVHSVYSDKDVFLRELISNAADACERLRYDAISDPALLADDARPQIAITIDAERRQLTVDDNGIGMSRDEMVDALGTIARSGTKAFIEQAKVEQAKSAEAGDGVTVIGQFGVGFYSAFMVADQVDVISRRAGAGEAWRWSSDGKGTFTVTPADESEAPARGTRVMLHLTEDAKGYTDRLKLEQIVREQSGHVPVPIVLVEQPGAAPTEIADGAALWTKPRGEIGTSEYVDFYRSVAGHFDEPALTVHFRAEGRQEFTALLFVPQTRSFDLFETDRKGPIKLYVKRVFITDDADLLPRYLRFVRGVVDSADLPLNISREMIQESPILAAIKKSITGRVLSELEKLAEKDAQAYGKVWEAFGPMFKEGIYDAADRRDAILSLCRFRTTAGSLRSLKDYVGALKDNQTSIYYLAGQDAARLEASPHLEGFRARGVEVLLLSDPVDSFWVTSAPSFEGKPFKSVTQGDTDLAAIPRVDASAETLQEVSASVTEFLAFLKTTLADLVSDVRSSERLTDSPVCLIAAESGPDRQLEKILVGVGQLTGASKPVLEVNPRHPLIASLAALGDGDRAFKEDTARMLLDDARVLDGDRPSDALEFSRRLARIVERGLRGSTA |
| 5194 | sp|P40292|HSP90\_ASPFU | MSSETFEFQAEISQLLSLIINTVYSNKEIFLRELISNASDALDKIRYQSLSDPTKLDTGKDLRIDIIPDKENKTLTIRDTGIGMTKADLINNLGTIARSGTKQFMEALSAGADISMIGQFGVGFYSAYLVADRVTVVSKNNDDEQYIWESAAGGTFTLTQDTEGEQLGRGTKIILHLKDEQTDYLNESRIKEVVRKHSEFISYPIYLHVLKETEKEVPDEEAEETKEEEDEEKKAKIEEVDDEEEEEKKKKKKTKTVKESKIEEEELNKTKPIWTRNPADITQEEYASFYKSLSNDWEDHLAVKHFSVEGQLEFRAILYVPKRAPFDLFETKKTKNNIKLYVRRVFITDDATDLIPEWLGFIKGVVDSEDLPLNLSRETLQQNKIMKVIKKNIVKKTLELFNEIAEDREQFDKFYSAFSKNIKLGIHEDAQNRQTLAKLLRYQSTKSGDEATSLADYVTRMPEHQKQIYYITGESIKAVAKSPFLDSLKQKNFEVLFLVDPIDEYAFTQLKEFDGKKLVDITKDFELEETEEEKAEREKEEKEYENLAKSLKNILGDKVEKVVVSHKLVGSPCAIRTGQFGWSANMERIMKAQALRDTSMSSYMSSKKTFEISPKSSIIKELKKKVEADGENDRTVKSITQLLFETSLLVSGFTIEEPASFAERIHKLVSLGLNIDEEAETTEEKATEEAAPAEATTGESAMEEVD |
| 5195 | sp|Q9PHZ3|HTPG\_CAMJE | MQFQTEVNQLLQLMIHSLYSNKEIFLRELISNASDALDKLNFLSVSDDKYKSLKFEPKIEIKIDKDKKTLSISDNGIGMDKDDLINNLGTIAKSGTKSFLENLSGDAKKDSQLIGQFGVGFYSAFMVASKIEVLSKKALDDKAYLWSSDANGYEIDDANKEEQGTSITLYLKDDEFANAYKIESIIEKYSNHIQFPIFMEKEEFTPAKEGEEEGKTELKISQINKANALWRMQKSSLKAEDYERFYEQNFHDSNKPLLYLHTKSEGKLEYNSLFFIPQNAPFDLFRVDYQSGLKLYVKRVFISDDDKELLPTYLRFVRGIIDVEDLPLNVSREILQENQILKGIKEASVKKILGELEKLKNNDKEKYLSFFKTFGKVLKEGLYGFGGEKDSLLKLMLYKSTKGENLRSLEEYKNDLQGEQKEIFYIAGNNESLLRTSPLLEEYKQKNIEVLLMDDEIDSLVTPMLEFEGLKFVSINQVEDKNELSDEEKNTFAPLVAKFKELLKDQVEDVRLTSRLKDSPSCIVYDKNKPDFAMQQLLKQMGQEQNFKPILEINPKHAIFTGLKNNESFSADIATLVLNMAKLSEGMGVDNPAEFNASLTKIINKAFS |
| 5196 | sp|Q9CM20|HTPG\_PASMU | MSTNQETRGFQSEVKQLLQLMIHSLYSNKEIFLRELISNASDAADKLRFKALSVPELYEGDGDLKVRIRFDEEKGTLTISDNGIGMTRDEVIDHLGTIAKSGTKEFLSALGQDQAKDSQLIGQFGVGFYSAFIVADKVTVKTRAAGVSADKAVLWESAGEGEYSVADIDKKERGTEITLHLREDEKAFLNDWRLREIIGKYSDHIGLPVEILAKEYDDEGKETGIKWEKINKAQALWTRAKNEISEEEYQEFYKHLSHDFTDPLLWAHNKVEGNQEYTSLLYVPAKAPWDLFNREHKHGLKLYVQRVFIMDDAQVFMPNYLRFMRGLLDSNDLPLNVSREILQDNKVTSALRKALTKRALQMLEKLAKDDAEKYQRFWQEFGLVLKEGPAEDFANKETIAKLLRFASTHNDSSQQSVSLEDYVARMKEGQKAIYYITADTYVAAKNSPHLELFNKKGIEVLLLSDRIDEWMLSYLTEFDGKPLQTISKADLDLGDLADKEEDSQKAQDEQYASFVERVKTLLGERVKEVRLTHRLTDTPAVVSTGDDQMTTQMAKLFAAAGQAMPEVKYTFELNPEHGLVQKVAEIADEQQFADWIELLLEQAMLAERGSLENPVAFIKRMNTLLSKLTSH |
| 5197 | sp|Q9N1U2|HSP76\_SAGOE | MQAPRELAVGIDLGTTYSCVGVFQQGRVEILANDQGNRTTPSYVAFTDTERLVGDAAKSQAALNPLNTVFDAKRLIGRKFADATVQADMKHWPFQVVSEGCKPKVRVSYRGEDKSFYPEEISSMVLSKMKETAEAYLGQPVKHAVITVPAYFNDSQRQATKDAGAIAGLNVLRIINEPTAAAIAHGLDRRGAGERNVLIFDLGGGTFDVSVLSIDAGVFEVKATAGDTHLGGEDFDNRLVNHFVEEFRRKHRKDLSWNKRALRRLRTACERAKRTLSSSTQATLEIDSLFEGVDFYTSITRARFEELCSDLFRSTLEPVEKALRDAKLDKAQIHDVVLVGGSTRIPRVQKLLQDFFNGKELNKSINPDEAVAYGAAVQAAVLMGDKCEKVRDLLLLDVAPLSLGLETAGGVMTTLIQRNATIPTKQTQTFTTYSDNQPGVFIQVYEGERAMTKDNNLLGRFELSGIPPAPRGVPQIEVTFDIDANGILSVTATDRSTGKANKITITNDKGRLSKEEVERMVREAEQYKAEDEAQRDRVAAKNSLETHVFHVKGSLQEESLRDKIPKEDRHKVQDKCQEVLAWLEHNQLADKEEYEHQKRELEQICRPIFSRLYGGPGVPGGSSCGAQARQGDRSTGPIIEEVD |
| 5198 | sp|A7ZXD1|HTPG\_ECOHS | MKGQETRGFQSEVKQLLHLMIHSLYSNKEIFLRELISNASDAADKLRFRALSNPDLYEGDGELRVRVSFDKDKRTLTISDNGVGMTRDEVIDHLGTIAKSGTKSFLESLGSDQAKDSQLIGQFGVGFYSAFIVADKVTVRTRAAGEKPENGVFWESAGEGEYTVADITKEDRGTEITLHLREGEDEFLDDWRVRSIISKYSDHIALPVEIEKREEKDGETVISWEKINKAQALWTRNKSEITDEEYKEFYKHIAHDFNDPLTWSHNRVEGKQEYTSLLYIPSQAPWDMWNRDHKHGLKLYVQRVFIMDDAEQFMPNYLRFVRGLIDSSDLPLNVSREILQDSTVTRNLRNALTKRVLQMLEKLAKDDAEKYQTFWQQFGLVLKEGPAEDFANQEAIAKLLRFASTHTDSSAQTVSLEDYVSRMKEGQEKIYYITADSYAAAKSSPHLELLRKKGIEVLLLSDRIDEWMMNYLTEFDGKPFQSVSKVDESLEKLADEVDESAKEAEKALTPFIDRVKALLGERVKDVRLTHRLTDTPAIVSTDADEMSTQMAKLFAAAGQKVPEVKYIFELNPDHVLVKRAADTEDEAKFSEWVELLLDQALLAERGTLEDPNLFIRRMNQLLVS |
| 5199 | sp|A8FL80|HSLU\_CAMJ8 | MNLTPKEIVKFLDDYVIGQKKAKKIIAIALRNRYRRMQLSPELQDDIVPKNILMIGSTGVGKTEIARRLAKMMGFPFIKIEASKYTEVGFVGRDVESMVRDLANAALNLVKNEQREKNKDKIDEFIENKILEKLLPPLPKGISDEKQEEYKNSLEKMRTKLRNGDLDESTIEIEISQNMFDTNPNLPPEMGAMQDIVKVIGVGSKKVKKEMKIKDAKNALKNEAGEKILDQESIKSEALKRAENEGIIFIDEIDKIAVSSGNSNRQDPSKEGVQRDLLPIVEGSNIQTKIGTLKTDHILFIAAGAFHLSKPSDLIPELQGRFPLRVELDSLDDKALYEILTRPKNSLLKQYSQLLKTENLELEFDDEAIKEIAKIASRANEEMQDIGARRLHTVIEKLLEDLSFEADEYAGKKFVVDKKMVEEKLGDIIENKDLARYIL |
| 5200 | sp|A4TFF4|HTPG\_MYCGI | MAPHVEQLEFQAEARQLLDLMIHSVYSNKDSFLRELISNASDALDKLRLEAFRNKDLDVDTSDLHIEIVVDKEARTLTVRDNGIGMSRDEVVRLIGTLAKSGTAELRQQLREAKDANANEELIGQFGIGFYASFMVADRVELLTRKAGESEATRWESTGEGSYTIETVDQAGGEVPQGTSVTLHLKPEDREDELHDYTSEWKIRELVKQYSDFIAWPVRMDVERRTPASEEGGEETVTVETQTLNSMKALWARPRDEVSDEEYTEFYKHVAHAWDEPLETIAMRAEGTFEYQALLFIPSHAPFDLFQQNATVGVQLYVKRVFIMGDCDQLMPPYLRFVKGVVDAQDMSLNVSREILQQDRQIRAIRRRLTKKVLSTIAEMQAERPEKYRTFWTQFGRVLKEGLLSDTDNQETLLRVSSFASTRSDDEPTTLAEYVERMPEGQTQIFYAAGESRQQLLNSPHLEAFKAKGYEVLLLTDPVDEVWVESIHEFDGKPLQSVAKGEVDLDSEADKEAQETERQQREKEFADVIAWLTEVLGDHVKEVRLSTRLTDSPACLITDTFGITPALARMYRASGQPVPVEKRILELNPTHPLVVGLREAHESRGADDELAGTAELLYGTALLAEGGALEDPARFAGLLADRLTRMVGEQS |
| 5201 | sp|Q7YQC6|HSP71\_CANLF | MAKSAAIGIDLGTTYSCVGVFQHGKVEIIANDQGNRTTPSYVAFTDTERLIGDAAKNQVALNPQNTVFDAKRLIGRKFGDPVVQSDMKHWPFQVVNDGDKPKVQVSYKGETKAFYPEEISSMVLTKMKEIAEAYLGYPVTNAVITVPAYFNDSQRQATKDAGVIAGLNVLRIINEPTAAAIAYGLDRTGKGERNVLIFDLGGGTFDVSILTIDDGIFEVKATAGDTHLGGEDFDNRLVNHFVEEFKRKHKKDISQNKRAVRRLRTACERAKRTLSSSTQASLEIDSLFEGIDFYTSITRARFEELCSDLFRSTLEPVEKALRDAKLDKAQIHDLVLVGGSTRIPKVQKLLQDFFNGRDLNKSINPDEAVAYGAAVQAAILMGDKSENVQDLLLLDVAPLSLGLETAGGVMTALIKRNSTIPTKQTQIFTTYSDNQPGVLIQVYEGERAMTRDNNLLGRFELSGIPPAPRGVPQIEVTFDIDANGILNVTATDKSTGKANKITITNDKGRLSKEEIERMVQEAEKYKAEDEVQRDRVSAKNALESYAFNMKSAVEDEGLKGKISEADKKKVLDKCQEVISWLDANTLAEKDEFEHKRKELEQVCNPIITGLYQGAGGPGAGGFGAQAPKGGSGSGPTIEEVD |
| 5202 | sp|A1UU56|HSLU\_BARBK | MCVVFSPREIVSELDRFIIGQKDAKRSVAIALRNRWRRQQLEGQIREEVMPKNILMIGPTGVGKTEIARRLAKLAGAPFVKVEATKFTEVGYVGRDVEQIIRDLVEIAISLVREKKRDEVQERAHINAEERVLEALVGKTASPATRDNFRQKLRAGELDDKEIEIEVANNSNNSAPTFDIPGMPGAQMGIMNLSDIFGKIGGRTKIRKTTVKDAFKPLIDDESEKLLDQDQIIQEALCITENDGIVFIDEIDKIATQDGGAGAAISREGVQRDLLPLVEGTIVATKYGQIKTDHILFIASGAFHVSKPSDLLPELQGRLPIRVELNALTKEDLRRILTEPEASLIKQYIALMATEDVHLEITDDAIDTLADIAVDLNARIENIGARRLQTVMERVLDEISFTAPDKAGTSFKVDATYVRQSVGELASDVDLSRFIL |
| 5203 | sp|Q15RT6|HTPG\_PSEA6 | MADVAHQETHGFQTEVKQLLQLMIHSLYSNKEIFLRELVSNAADAADKLRFKALSNDSLYEGDGDLCVKLSIDKDAGSITISDNGIGMDRASVIEHLGTIAKSGTSEFFSNLSGDQAKDSQLIGQFGVGFYSAFIVAEKVVVRSRAAGDDASKGVEWTSEGEGEFTVADIEKADRGTEITLFLREDEKEFADDWRLRSIVSKYSDHISIPVMMYKEEVPESDGPDGEKVPAQPAKWEAVNKATALWTRDKSEVSDEEYKEFYKHISHDFADPLVWSHNKVEGKTEYNSLLYIPAKAPFDMWNRDQKHGLKLYVQRVFIMDDAEQFMPTYLRFVKGLLDSNDLPLNVSREILQDNKITQAIRQGCTKRVLQMLERVAKNDSEKYQGFWAEFGNVLKEGPAEDHANKEKVAGLLRFASTENDSDAQNVSLADYVSRMKDGQDKIYYITADSYKAAKSSPHLEIFRKKGIEVLLMSDRVDEWLMSHLTEFDEKSFQSITHGELDLGDLDDEDSKKAQEEAEKQVEGLTERVKTVLGDKVAEVKFTHRLTDSPACIVADGTGMSTQMIKLMQAAGQPVPEAKYHFELNPEHSLVKMLADEQDEERFGQWTEVLFDQAALSEQGSLKDPAAFVHNLNTLLMNLAK |
| 5204 | sp|Q9EPX0|HSPB8\_RAT | MADGQLPFPCSYPSRLRRDPFRDSPLSSRLLDDGFGMDPFPDDLTAPWPEWALPRLSSAWPGTLRSGMVPRGPTATARFGVPAEGRNPPPFPGEPWKVCVNVHSFKPEELMVKTKDGYVEVSGKHEEKQQEGGIVSKNFTKKIQLPAEVDPVTVFASLSPEGLLIIEAPQVPPYSPFGESSFNNELPQDNQEVTCS |
| 5205 | sp|P35385|HSPB7\_MOUSE | MSHRTSSAFRAERSFRSSSSSSSSSSSSASRALPAQDPPMEKALSMFSDDFGSFMLPHSEPLAFPARPGGQGNIKTLGDAYEFTVDMRDFSPEDIIVTTFNNHIEVRAEKLAADGTVMNTFAHKCQLPEDVDPTSVTSALREDGSLTIRARRHPHTEHVQQTFRTEIKI |
| 5206 | sp|Q3IKQ2|HTPG\_PSEHT | MTAAQKETLGFQTEVKQLLNLMIHSLYSNKEIFLRELVSNASDAADKLRFLALSQGDLYQGDADLRVRISADKEANTITISDNGIGMTRDEVISSLGTIAKSGTAEFFKNLTGDQSKDSQLIGQFGVGFYSAFIVADLVTVRTRKAGETTAYEWESQGEGEYTLQEIEKEGRGTDIILHLREEEKEFADEWRLRSIVTKYSDHISTPVQMYKAEVPESEGEDGEKIPAVPGEWESINRATALWTRDKSELSDDEYKEFYKHVSLDWEDPLSWAHNKVEGKTEYTSLLYIPKKAPFDLWNRDRQSGLKLYVQRVFIMDDAEQFMPSYLRFVKGLLDSNDLPLNVSREILQDNKVTQAIRKGCTSRIIKMLERMAKNKADDYQVFWNEFGQVIKEGPAEDAANKEAICKLLRFSSTHTDSATQDVSLEQYVERMNEGQEKIYYVVADTFTAAKNSPHLEIFRKKGIEVLLLSDRVDEWMMSHLTEFADKQLQSITRGDLDLGKLDDEETKKAQEESEKEVAGLVERIKTALGDEVKEVRFTHRLTDSPACVVSDDNDMSSQMQKLMESVGQAAPEAKPVFELNPEHQLVKHLNDEQDEDKFAQWSHVLLDQALLAERGTLKDPTGFVTRLNKLMLELSK |
| 5207 | sp|P55938|HSP71\_LEITA | ESQKVQGDVIGVDLGTTYSCVA |
| 5208 | sp|B7V3E7|HSLU\_PSEA8 | MSMTPREIVHELNRHIIGQDDAKRAVAIALRNRWRRMQLPAELRAEVTPKNILMIGPTGVGKTEIARRLARLANAPFIKVEATKFTEVGYVGRDVESIIRDLADAAVKMLREQEIQKVKYRAEDAAEERILDALLPAARPAMGFGDEPAREDSNTRQLFRKRLREGQLDDKEIDIEVADNPAGVEIMAPPGMEEMTNQLQNLFSGMSKGKKKTRKLKVAEALKLIRDEEAVRLVNEEELKARALEAVEQHGIVFIDEIDKIAKRANAGGADVSREGVQRDLLPLIEGCTVNTKLGMVKTDHILFIASGAFHLSKPSDLVPELQGRLPIRVELKALSPNDFERILTEPHASLTEQYRELLKTEGLAIEFAEDGIKRLAEIAWQVNEKTENIGARRLHTLLERLLEEVSFSAADLASEHSDKPILIDAGYVNSHLGELAEDEDLSRYIL |
| 5209 | sp|Q1D801|HSLU\_MYXXD | MSAFTPREVVSELDRYIVGQNAAKRAVAIALRNRWRRQQVDDDLRDEIHPKNIIMIGPTGVGKTEIARRLAKLAQAPFVKVEASKFTEVGYVGRDVESMIRDLVEAAIALVREEETEKVGPRAEELAEDRLIELMQGGGVKSSSATPPFGFAPPPPPPVQRVSDSAREKFRAQLRAGTLDDVEVEVETAESSPTFMRGFSGQGMEEIGVNLQDLFKNVPGMNKTRRRRVRVPEALQLLRKEEAAKLVDPDRVQREAVARAEMNGIIFIDEIDKIASREGGKGGGGPDVSREGVQRDILPIVEGSTINTKYGVVKTDHMLFIAAGAFHVSKPSDLIPELQGRFPIRVELEPLTGEDLVRILREPKNSLLRQYTALLSTEGVRLSFTDDAVTELARIAQQANESTANIGARRLHTILERLLDEVSFSASEMGPRDFQVDAAYVRERLAAIVQDEDLSRYIL |
| 5210 | sp|Q76LV1|HS90B\_BOVIN | MPEEVHHGEEEVETFAFQAEIAQLMSLIINTFYSNKEIFLRELISNASDALDKIRYESLTDPSKLDSGKELKIDIIPNPQERTLTLVDTGIGMTKADLVNNLGTIAKSGTKAFMEALQAGADISMIGQFGVGFYSAYLVAEKVVVITKHNDDEQYAWESSAGGSFTVRADHGEPIGRGTKVILHLKEDQTEYLEERRVKEVVKKHSQFIGYPITLYLEKEREKEISDDEAEEEKGEKEEEDKDDEEKPKIEDVGSDEEDDSGKDKKKKTKKIKEKYIDQEELNKTKPIWTRNPDDITQEEYGEFYKSLTNDWEDHLAVKHFSVEGQLEFRALLFIPRRAPFDLFENKKKKNNIKLYVRRVFIMDSCDELIPEYLNFIRGVVDSEDLPLNISREMLQQSKILKVIRKNIVKKCLELFSELAEDKENYKKFYEAFSKNLKLGIHEDSTNRRRLSELLRYHTSQSGDEMTSLSEYVSRMKETQKSIYYITGESKEQVANSAFVERVRKRGFEVVYMTEPIDEYCVQQLKEFDGKSLVSVTKEGLELPEDEEEKKKMEESKAKFENLCKLMKEILDKKVEKVTISNRLVSSPCCIVTSTYGWTANMERIMKAQALRDNSTMGYMMAKKHLEINPDHPIVETLRQKAEADKNDKAVKDLVVLLFETALLSSGFSLEDPQTHSNRIYRMIKLGLGIDEDEVTAEEPSAAVPDEIPPLEGDEDASRMEEVD |
| 5211 | sp|Q9BLC5|HSP83\_BOMMO | MPEEMETQPAEVETFAFQAEIAQLMSLIINTFYSNKEIFLRELISNSSDALDKIRYESLTDPSKLDSGKELYIKIIPNKNEGTLTIIDTGIGMTKADLVNNLGTIAKSGTKAFMEALQAGADISMIGQFGVGFYSSYLVADRVTVHSKHNDDEQYVWESSAGGSFTVRPDSGEPLGRGTKIVLHVKEDLAEFMEEHKIKEIVKKHSQFIGYPIKLMVEKEREKELSDDEAEEEKKEEEDEKPKIEDVGEDEDEDKKDTKKKKKTIKEKYTEDEELNKTKPIWTRNADDITQDEYGDFYKSLTNDWEDHLAVKHFSVEGQLEFRALLFVPRRAPFDLFENKKRKNNIKLYVRRVFIMDNCEDLIPEYLNFIRGVVDSEDLPLNISREMLQQNKILKVIRKNLVKKCLELFEELAEDKENYKKYYEQFSKNLKLGIHEDSQNRAKLSELLRYHTSASGDEACSLKEYVSRMKENQKHIYYITGENRDQVANSSFVERVKKRGYEVVYMTEPIDEYVVQQMREYDGKTLVSVTKEGLELPEDEEEKKKREEDKVKFEGLCKVMKNILDNKVEKVVVSNRLVESPCCIVTAQYGWSANMERIMKAQALRDTSTMGYMAAKKHLEINPDHSIVETLRQKAEADKNDKAVKDLVILLYETALLSSGFTLDEPQVHASRIYRMIKLGLGIDEDEPIQVEEPASGDVPPLEGDADDASRMEEVD |
| 5212 | sp|Q08277|HSP82\_MAIZE | MASADVHMAGGAETETFAFQAEINQLLSLIINTFYSNKEIFLRELISNASDALDKIRFESLTDKSNVNAQPELFIRLVPDKASKTLSIIDSGVGMTKSDLVNNLGTIARSGTKEFMEALAAGATDVSMIGQFGVGFYSAYLVADRVMVTTKHNDDEQYVWESQAGGSFTVTHDTTGEQLGRGTKITLFLKDDQLEYLEERRLKDLVKKHSEFISYPIYLWTEKTTEKEISDDEEEEDNKKEEEGDVEEVDDEDKDTKDKSKKKKKVKEVSHEWVQINKQKPIWLRKPEEITRDEYASFYKSLTNDWEDHLAVKHFSVEGQLEFKAILFVPRRAPFDLFDTRKKLNNIKLYVRRVFIMDNCEELIPEWLGFVKGVVDSDDLPLNISRETLQQNKILKVIRKNLVKKCIEMFFEIAENKDDYAKFYDAFSKNIKLGIHEDSQNRAKLADLLRYHSTKSGDETTSLKDYVTRMKEGQKDIYYITGESRKAVENSPFLERLKKKGYEVLFMVDAIDEYAVGQLKEYDGKKLVSATKEGLKLDDEDDEEAKKRREERKKRFEELCKVIKDILGDRVEKVVVSDRIVDSPCCLVTGEYGWTANMERIMKAQALRDSSMSAYMSSKKTMEINPDNGIMEELRKRAEADRNDKSVKDLVLLLFETALLTSGFSLDDPNTFAARIHRMLKLGLNIDEDAAADEDADMPALDEGAAEESKMEEVD |
| 5213 | sp|Q8DFM0|HTPG\_VIBVU | MNETVANNKETRGFQSEVKQLLHLMIHSLYSNKEIFLRELISNASDAADKLRFQALSNPALYENDAELGVKLSFNEEHNTLTISDNGIGMSREEVISHLGTIAKSGTAEFFSKLSQEQSKDSQLIGQFGVGFYSAFIVADAVTVRTRAAGLSADQAVLWHSAGEGEYTVEDITKESRGTDIILHMREDGKEFLNEWRLRDVIGKYSDHIGIPVSIQTRVRDEEGKETEEVKWEQINKAQALWTRNKSDISDEEYQEFYKHVSHDFADPLLWSHNRVEGKNDYTSLLYIPSKAPWDMMNRDHKSGLKLYVQRVFIMDDAEQFMPSYLRFVRGLIDSNDLPLNVSREILQDNKVTQSLRGACTKRVLTMLERLAKNDTDKYQTFWKEFGLVMKEGPAEDYANREKVASLLRFASTEVDSAEQTVSLESYVERMKEGQDKIYYLTADSYAAAKNSPHLEQFKAKGLEVILMFDRIDEWLMNYLTEFDGKQFQSITKAGLDLSQFEDEQEKEKQKETEQEFQSVVERTKSYLGDRVKEVRTTFKLANTPAVVVTDDFEMGTQMAKLLAAAGQAVPEVKYIFEINPNHTLVKQMADETDEEAFGRWVEVLLGQAMLAERGSMEDPSQFLTAINSLLTKG |
| 5214 | sp|B0VT08|HTPX\_ACIBS | MMRIGLFLLTNLAVLVVAGIILSLFGVGSYHGAGGLNLGNLLVICFVFGMVGSLVSLFMSKWMAKKTTGTELIDPNAPRNQAESWLLQTVAELSQRAGINMPEVGIFPSYQSNAFATGWNKNDALVAVSSGLLERMNKDELRAVLAHEIGHVANGDMVTLALIQGVVNAFVMFFARVVGDFIDRNVFGRQDNEAPGMGYFIITMVLDIVFGILASAIVMWFSRYREYRADEAGARLAGKQAMISALLRLQAETELPDQMPKEMKAFAIAEGKEQGFSLAALFQTHPTIEQRVAALHQLDCP |
| 5215 | sp|Q69QQ6|HSP82\_ORYSJ | MASETETFAFQAEINQLLSLIINTFYSNKEIFLRELISNSSDALDKIRFESLTDKSKLDAQPELFIHIVPDKASNTLSIIDSGVGMTKSDLVNNLGTIARSGTKEFMEALAAGADVSMIGQFGVGFYSAYLVAERVVVTTKHNDDEQYVWESQAGGSFTVTRDTSGEQLGRGTKITLYLKDDQLEYLEERRLKDLVKKHSEFISYPISLWTEKTTEKEISDDEDEEEKKDAEEGKVEDVDEEKEEKEKKKKKIKEVSHEWNVMNKQKPIWLRKPEEITKEEYAAFYKSLTNDWEEHLAVKHFSVEGQLEFKAILFVPKRAPFDLFDTRKKQNNIKLYVRRVFIMDNCEELIPEWLSFVKGIVDSEDLPLNISREMLQQNKILKVIRKNLVKKCVELFFEIAENKEDYNKFYEAFSKNLKLGIHEDSTNRTKIAELLRYHSTKSGDELTSLKDYVTRMKEGQSEIYYITGESKKAVENSPFLEKLKKKGYEVLYMVDAIDEYAVGQLKEFEGKKLVSATKEGLKLDESEDEKKRQEELKEKFEGLCKVIKEVLGDKVEKVVVSDRVVDSPCCLVTGEYGWTANMERIMKAQALRDSSMAGYMSSKKTMEINPENSIMDELRKRADADKNDKSVKDLVMLLFETALLTSGFSLEDPNTFGTRIHRMLKLGLSIDEDESAEADADMPPLEDDAGESKMEEVD |
| 5216 | sp|B6JL97|HSLV\_HELP2 | MFEATTILGYRGEMGGKKFAFIGGDGQVTLGNCVVKANATKIRSLYHNQVLSGFAGSTADAFSLFDMFERILESKKGDLFKSVVDFSKEWRKDKYLRRLEAMMIVLNLDHIFILSGTGDVLEAEDNKIAAIGSGGNYALSAARALDHFAHLEPKKLVEESLKIAGDLCIYTNTNIKILEL |
| 5217 | sp|Q16CY2|HSLU\_ROSDO | MTDLTPREIVSELDRFIIGQNDAKRAVAVALRNRWRRKQLADDLRDEVYPKNILMIGPTGVGKTEISRRLAKLARAPFLKVEATKFTEVGYVGRDVEQIIRDLVDNAISMTRDHMRDDVKANAHQAAEERVITAIAGEDARESTREMFRKKLKAGDLDDTVIELDVADTSSPFPMMDIPGQPGGNMGMMNLGDIFGKALGGRTTRKKMTVSQSYDILIGEEADKLLDDETVNRAAIEAVEQNGIVFLDEIDKVCAKSDTRGGDVSREGVQRDLLPLIEGTTVSTKHGPIKTDHILFIASGAFHIAKPSDLLPELQGRLPIRVELRALTEEDFVRILTETDNALTLQYTALMGTEEVTVSFTEDGIAALAKIAAEVNQSVENIGARRLYTVMERVFEELSFSAPDRAGEEIIVDAAFVDENLGALAKSTDVSRYVL |
| 5218 | sp|B0VD55|HSCA\_ACIBY | MALLQIAEPGQSSAPHQHRIAIGIDLGTTHSLVATVLSGKPKVLNDVQNRRLLPSIVHYGDNTTHYGEEAKPFIIADPKNTIVSVKRFMGRSKADIKFQHPYELVGSENEMPAFETRAGRKTPVEISAEILKQLKDRAEDSLQNPVNGAVITVPAYFDEAQRQATRDAAQLAGLNVLRLLNEPTAAAVAYGLDQESNLATDRNYVIYDLGGGTFDVSILRFSQGVFEVLATGGHTALGGDDLDRLIVKWAKKQLNIDVLSDEDYAVFIVAARQAKEQLSTQDSVELKLLEATLTLDRPTFESIIQVALDKTISVCKRVLRDAKLELTDIQNVVLVGGSTRSYAVQKAVREVFAQEPLCTINPDEVVAIGASITANQLIGNSQDGSLLLDVTPLSLGLETMGGLVERLISRNTAIPVARRQEFTTYQDGQTAMLIHVVQGERDLVEHCRSLGRFVLHGIPPMTAGQARIEVTFQVDADGLLTVSAREATSGVQAHIDIKPSYGLSEADTERLLIEGFQHAEEDKNLRHLKETKVEAERELESLEQALKVDADLLDEKQLDALNSAKESLKAQLEGSDIQAIEHAVQQLKVHSDAFAALRMNRHIDHALKGTKLDDWSKSN |
| 5219 | sp|Q1JFC6|HRCA\_STRPD | MITQRQNDILNLIVELFTQTHEPVGSKALQRTIDSSSATIRNDMAKLEKLGLLEKAHTSSGRMPSPAGFKYFVEHSLRLDSIDEQDIYHVIKAFDFEAFKLEDMLQKASHILSEMTGYTSVILDVEPARQRLTGFDVVQLSNHDALAVMTLDESKPVTVQFAIPRNFLTRDLIAFKAIVEERLLDSSVIDIHYKLRTEIPQIVQKYFVTTDNVLQLFDYVFSELFLETVFVAGKVNSLTYSDLSTYQFLDNEQQVAISLRQSLKEGEMASVQVADSQEAALADVSVLTHKFLIPYRGFGLLSLIGPIDMDYRRSVSLVNIIGKVLAAKLGDYYRYLNSNHYEVH |
| 5220 | sp|Q49Y24|HRCA\_STAS1 | MISDRQLSILNAIVEDYVDLGQPIGSKTLIERHKLNVSPATIRNEMKQLEDLELIEKTHTSSGRYPSESGIRYYVNQLLQETSHQQQTKMQRLKDLVIENHYDLSSTLSDFANELSIASQYTTLVMRPNHKQDIINNIHLIRANAYLVIMVVVFTSGHVEHLHLASEVPLSNDELTKISNFVTAKYNEWNNHRFENELNAFVKSDTEKDFIKDMLNMIDIHFDNQSNGIFMGGKVKLIDALNESNVSSIQPILQYIESNKITQLLDEMSNTSINVKIGHEIESSLSDISIVTSEYHIDDRLKGQIAVIGPTAMNYQNVIRLLNTIW |
| 5221 | sp|Q0AYP1|HSLU\_SYNWW | MFKLTPREIVEELDKYIIGQQEAKKAVAIALRNRYRRKLLPDELREEIYPKNIIMIGSTGVGKTEIARRLARLVKAPFIKVEASKFTEVGYVGRDVDSMVRDLVETSIRLVKQEKMAAVEQKGRQMAEERIVDILLPFDGRKSKSPKNPFEFLLGSIQERDDVDDESERRRREIGQRREILRQKINRLELEDETIEIEVEEKNPSFMEIFSGSGVEEMGINLQDMLGNLMPRNKKKRKVSIAEARRILTYEESQRLLDMDEIHREGIKRAEEDGIIFLDEIDKIASKESNYGPDVSRGGVQRDILPIVEGSTVITKYGPARTDHVLFIAAGAFHVSKPSDLIPELQGRFPIRVELESLKKEDLKRILTEPNNSLIKQYIALLSTEKLTMDFTPEAIDYIAERAYEVNSRTEDIGARRLHTVMEKLLEDLLFNSPDMAGEKLVIDIDYVAERLDRIVEDEDLSRYIL |
| 5222 | sp|Q6A998|HRCA\_CUTAK | MLDDRKLDVLKAIVTDYVSSKEPVGSKALVERHGLRVSPATVRNDMAVLEEEGYITHPHTSAGRIPTDKGYRLFVDRIATLKPLSAPERRAIQAFMTGAVDLDDIVRRTVRLLAQITHQVAIMQYPVATTGTIRHLELVSLSTDRILIVLIMSSGSVEQQIVELPGHDEQSLAALRTRLNETLVGLTVAEAADSLNRFLDDLGPAEGPRAASVIATVLEILAVDPSARVVVAGVPNLTAFGAQWETAVRPVLEALEEQVVLMRLLGEATAGEAGEVTVRIGAENTDVPFQSTSLVASTYGPEDALSSLGVVGPIRMDYPSTMAAVRAVARYVGRFLAEG |
| 5223 | sp|A5GWB6|HRCA\_SYNR3 | MLPLPRRQQQVLQATVQHYVDTVEPVGSRTLVRRFGLDASPATVRSAMGALEQKGLLTQPHTSAGRVPSPKGYRQFVDALLPEPGAAVVQLQRELAELSLQWAALDDLLHHLARRLADLTGLMSIITRPQRQEPRLKALRLVRSGDRLLVFLVESSAASSSLNLRLPPDSSAQLQALEHWLNDQLSKSAINWSGLPSHLQSVGAPLKQALASHNRGRNRQAEGALTTGLAGLLCQPEFQLTTSLRPLLQLVEQQPHELLNPAAATASGGVWIGQEHPHPALSGCAVVQAPYATASGGEGSVALVGPMRMAYATALAAVEAVAGTLSRLLA |
| 5224 | sp|B7L4S8|HSLO\_ECO55 | MPQHDQLHRYLFENFAVRGELVTVSETLQQILENHDYPQPVKNVLAELLVATSLLTATLKFDGDITVQLQGDGPMNLAVINGNNNQQMRGVARVQGEIPENADLKTLVGNGYVVITITPSEGERYQGVVGLEGDTLAACLEDYFMRSEQLPTRLFIRTGDVDGKPAAGGMLLQVMPAQNAQQDDFDHLATLTETIKTEELLTLPANEVLWRLYHEEEVTVYDPQDVEFKCTCSRERCADALKTLPDEEVDSILAEDGEIDMHCDYCGNHYLFNAMDIAEIRNNASPADPQVH |
| 5225 | sp|O69266|HRCA\_LYSSH | MLTNRQLQILQVIIDDFILSAQPVGSRQISKKQGITFSPATIRNEMADLEELGYLEKTHTSSGRVPSEKGYRFYVDHLLSPQGINSRDIQQIQSIFNDRLVEVEHIIRKSANILSELTSYTSILLGPDVQRHRVKRFSIVPLSSDTAVAIIVTNNGHVENRLFNLPPDFTASDLEKMVNILNDRLIGVSLEELHKSLEAEVLAVLQQHVQSADDFYPRTRNSDNAIIQKAKIFYGGKTNMFNQPEFHDLNKVRMILDLMETTSQVQSLFHPNESGIHIRIGSENKQLEMENCSVITTTYSIGDDQQGAIAIIGPTRMDYKRVVALLDVIRLDLTQAFTKNRSE |
| 5226 | sp|O87775|HRCA\_LACSK | MLTERQLMILKEIIRLFTESGQPVGSKKLMSELPMHVSSATIRNDMADLENVGLIEKTHSSSGRVPSMKGYRYYLDHLIQPAVLNPMDVATVQQSFGRHYHKIDEIVSQSANILSNLTSYTAITLGPEMAEIRLTGFRLVPLGNHQVMAIIVTSAGTVDNQVFTIPNAISGDELEKAIRVVNDHLIGLPLTVVSQKLKTEVPALLMQYMGSPGGFLNIFDDVLKQASQERLYVGGQSNLLNFSELTDVSQLKSIYNIINQSDDLAKLLELSPGEANSQVQVRLGDEMTNDLLKNYSLMTVNYDVGEHGQGLIALLGPTSMPHSRMIGLLDLFREELAKKLIDYYADFDDNQS |
| 5227 | sp|Q8KCD6|HRCA\_CHLTE | MNYRDLTLRERQVLGIIIQSYVVSAMPVGSRTIARNYNLGLSDATIRNVMADLEADGFISQPHTSAGRVPTDKGYRYYVDLIMNVSRIDEEEKRMIDDRFSNRNSELKGTSAEVLGTAARVLGSISRQLAVVLPPRLSNAVFERLDIVQLASSRIMVVIAIQSLFVKTIVMELNAEISRQKIDAVVDVLNERLPGLTLEEIRSTIAQRLSDFKGSEELMNSIVSSADTLFDESSILEQLYVSGTENIVDQPEFKQPEKVRDIITMIEDKFGMARLVDNAVPSALRQVSECEVAISIGTENRTGKAADLTIVSSPYFAGKMIGRVGVMGPKRMNYEHAVRVVNYMAGCLSEALSGNN |
| 5228 | sp|A1VKP8|HRCA\_POLNA | MLDSRARLLLKALVERYIADGQPVGSRTLSKASGLELSPATIRNVMSDLEDLGLIVSPHTSAGRIPTARGYRLFVDTMLTTQRDPFSVAGQMARIAPDQPLKVISNAAHMLSSLSQFVGVVMAPRRTSVFRHIEFLRLSEKRFLVIIVSPDGDVQNRVIFTETDYTASQLIEASNFLNSHYAGMAIEEVRERLKNEVEALRGEIATLMQEAVLVSSEAIESRDEVVVSGERNLLAVSDFSSDMGNLRKLFDLFEQKAQLMRLLDVSSRAEGVRIYIGGESQVIPYQELSVVTAPYEVDGQVVGTLGVIGPMRMPYEKMIQIVDITSKLVSTALSHSK |
| 5229 | sp|Q1QRU4|HRCA\_NITHX | MVHHDPIGLIAPNTGLAQLNERSRDIFRQIVESYLATGEPVGSRNISRLITMPLSPASVRNVMSDLEQLGLIYAPHTSAGRLPTEFGLRFFVDALMQVGDLTETERQSIQTQLASVGKAQSVEAALDQALTRLSGLTRAAAVVLTAKSNVRLKHIEFVRLEPEKALVVLVAEDGQVENRVLTLPSGVPASALTEASNFLNARIRGRTLAEARLELETALTQSKAELDQLTQKVIAAGIASWSGGDSDDRQLIVRGHANLLEDLHALEDLERVRLLFDDLETKRGVIDLLGRAERADGVRIFIGSENKLFSLSGSSTIIAPYNDGAGHIVGVLGVIGPTRLNYARVIPMVDYAARIVSQMLGG |
| 5230 | sp|P61447|HRCA\_LEPIN | MDLTERHKRILKALVDEFIQENRPVGSKTLFDKHDIGLSPASIRTVLKDLEDFGYLASKHTSGGRIPTERGYRFYVDSLVILYELTLKEKQRIQQEYLKMQFKLDQILKATASVLSSLSNAAGIVIGPAKNLDTLKHIELIHVRGDEILMILVMRSGTVLHRNIFVDQNYSQEALYQVSKYLNDNLKGYDIYEIQNVIIPKLMIRKDGPEDFIRIADLISSAMTPDNSEVTLYIDGFKNLYANFRDEEQQLSQVLSLLDDQGFLKAFFSEYIDQDGVFTIIGKDGDRSMSGVSIITSNYKMGEKKIGALGIIGPQRMDYNRALPLVDFTSKLVSEMVTRISK |
| 5231 | sp|Q9RDD6|HRCA\_STRCO | MLSERRLKVLRAIVQDYVGTEEPVGSKALTERHNLGVSPATVRNDMAALEDEGFIAQPHTSAGRIPTDKGYRLFVDKLAGVKPMTAPERRAIQNFLEGAVDLDDVVARTVRLLAQLTRQVAVVQYPSLTRSTVRHVELLSLAPARLMLVLITDTGRVEQRMVDCPAPFGEASLADLRARLNSRVAGRRFADVPALVEDLAEPFEAEDRGTVSTVLSTLLETLVEENEERLMIGGTANLTRFGHDFPLVIRPVLEALEEQVVLLKLLGEAKDPGVTVRIGHENAHEGLNSTSVVSVGYGSGGEAVAKLGVVGPTRMDYPGTMGAVRAVARYVGQILAES |
| 5232 | sp|A3ND74|HRCA\_BURP6 | MLDPRARTLLKTLIERYIADGQPVGSRTLSRYSGLELSPATIRNVMSDLEELGLVSSPHTSAGRVPTPRGYRLFVDTMLTVESPIDSDAVTRLVQTTLQAGEPQQRVVAAAASVLSNLSQFAGVVLTPRRSHVFKQIEFLRLSDKRILLIIVTPEGDVQNRMIATQRDYAPAQLTEASNYINAHFAGLSFDEVRRRLREEIDQLRGDMTALMHAAVTASTEEPDDEETVLISGERNLLEVADLSSDMARLRKLFDVFDQKTSLLQLLDVSSHAQGVQIFIGGESTLVPIDEMSVVTAPYEVNGKIVGTLGVIGPTRMAYNRVIPIVDITARLLSLTLSQQ |
| 5233 | sp|P54658|HS32\_DICDI | MMQFFGTIVTKEEPVNLELDEGDIFHLTKAIIHPKSQGKGKVYLTAVISLMEEDEMEEDDVDDEEESPREDIVEIPIGILEAGKIDQIDLNLHYNFGQIVRFELQAENGAGYVVALSGSVITMEQGGCDDEDCDDEHCINHEDDEEIDSDEEFGDSDQDEEDSDDEEIPQLIAPATKKGKITEISEVPESKKEKTPEPKKVPEPKKEQVKQPTQPQQKKAAAQQPEKANNKPAAASPAKPQNNQSKNAPKQPQQQQQSPAKNNNNKRPQNQNENNKKKQKN |
| 5234 | sp|Q8RWL4|IDM2\_ARATH | MSDTMPEIVSPLVAENSQEQEESVLISLDIEEDKLFLLHFIIGTYFGPDLRKQHHRPKQSAFQIQALKNVVVDELSGSLMKRAELERVYYHIIRNVDPSLVMKPKKLREYFNAKRNDSNRDYPLFVDLFPRKLHPETHVRHKFKFIRSIVFINDPDTSCMREECVARFKRLTGLDSFALSLSVDVTKSNGVVAANEVKVEIDESVEPVKEDNAGTCTSGEESDVAAKPEVKSEAHGGLMVGLMDIGECDDAYLFRVSLPGVKRDERYFSCEVEDNGKVLVRGVTTTGGKRVKRYSHVFEMQTRSLCPPGNFSVSFRLPGPVHPHEFSGNFGTDGILEGVVMKNLQKQTV |
| 5235 | sp|B1IYQ8|IBPB\_ECOLC | MRNFDLSPLMRQWIGFDKLANALQNAGESQSFPPYNIEKSDDNHYRITLALAGFRQEDLEIQLEGTRLSVKGTPEQPKEEKKWLHQGLMNQPFSLSFTLAENMEVSGATFVNGLLHIDLIRNEPEPIAAQRIAISERPALNS |
| 5236 | sp|B2TUT6|IBPB\_SHIB3 | MRNFDLSPLMRQWIGFDKLANALQNAGEGQSFPPYNIEKSDDNHYRITLALAGFRQEDLEIQLEGTRLSVKGTPEQPKEEKKWLHQGLMNQPFSLSFTLAENMEVSGATFVNGLLHIDLIRNEPEPIAAQRIAISERPALNS |
| 5237 | sp|G5CTG7|AQP10\_MILTA | MADAPTYIRQSTTGTATTAPTTMPVHPDTTYYKTTTTTVSDAPRAIADVNDDNHDNYDETTGLRSGEKKTRPLVTSTTAPIDAGRMTLGQKISRWTRIGSDLAREALAEFLGSFILIVFGNGVVAQVVLSRGAHGNFLSINIGYGLAVAFGVYIAGGISGGHLNPAVSLAFAALGKLPWRKLPVYMFAQYAGCICASAIVHAIYYDALNNYDGGNRTRGDTWQSTAGIHASYPQEFLYWQTGLADQIFATSFLMIGILALTDNRNTGPPGGVVPILVGCLVMAIGLAYGFNCGYPINPARDMGPRLFTLMAGWGSRTFSNYNPYIFNDYYQRIPYWFWIPVVGPHLGALLGAAIYFFFIGNHWPTLHRNVLELQVGHRDNSDDIELLAAKSRRPIEVVTTTETTRERRT |
| 5238 | sp|Q71MJ0|ANGI\_GORGO | MVMGLGVLLLVFVLGLGLTPPTLAQDNSRYTHFLTQHYDAKPQGRDDRYCESIMRRRGLTSPCKDINTFIHGNKRSIKAICENKNGNPHRENLRISKSSFQVTTCKLHGGSPWPPCQYRATAGFRNVVVACENGLPVHLDQSIFRRP |
| 5239 | sp|G5CTG5|AQP8\_MILTA | MSTAESRNHYKEVPTIEHYSEAIGITNRKKMDWRGWLRKSTLVRSQLIRGCMAEFLAVFVLMVFIEGSAATAIFTNRRQDILFGSISSGLGVAMAVYVAGGVSGAFLNPAVALAFAVLGKLSWKNCIFYMISQYLAAFVASCTMFAYLYEALNNFDGGERQMFGPNGTAHIWSTYPQPFLSPHTAFADQVFCTAILLIVVLAMCDSKNWKPHNGFLPIAIGLLIITISCTLSYNAGAAMNPSRDLAPRFFSYLAGYGTEPFGVKGYTWFFVPVLGSHCGAIIGGAIYQLFIGGQWPDDTSDTNSVSSMSYNEDNSTLTKRKQVSNIVHDSKGAKGSSTAPVN |
| 5240 | sp|Q10N21|APX1\_ORYSJ | MAKNYPVVSAEYQEAVEKARQKLRALIAEKSCAPLMLRLAWHSAGTFDVSSKTGGPFGTMKTPAELSHAANAGLDIAVRMLEPIKEEIPTISYADFYQLAGVVAVEVSGGPAVPFHPGREDKPAPPPEGRLPDATKGSDHLRQVFGAQMGLSDQDIVALSGGHTLGRCHKERSGFEGPWTRNPLQFDNSYFTELLSGDKEGLLQLPSDKALLSDPAFRPLVEKYAADEKAFFEDYKEAHLKLSELGFADA |
| 5241 | sp|O04036|ERD6\_ARATH | MERQKSMEKGLLRKSLSIRERKFPNEDAFLESGLSRKSPREVKKPQNDDGECRVTASVFLSTFVAVSGSFCTGCGVGFSSGAQAGITKDLSLSVAEYSMFGSILTLGGLIGAVFSGKVADVLGRKRTMLFCEFFCITGWLCVALAQNAMWLDCGRLLLGIGVGIFSYVIPVYIAEIAPKHVRGSFVFANQLMQNCGISLFFIIGNFIPWRLLTVVGLVPCVFHVFCLFFIPESPRWLAKLGRDKECRSSLQRLRGSDVDISREANTIRDTIDMTENGGETKMSELFQRRYAYPLIIGVGLMFLQQLCGSSGVTYYASSLFNKGGFPSAIGTSVIATIMVPKAMLATVLVDKMGRRTLLMASCSAMGLSALLLSVSYGFQSFGILPELTPIFTCIGVLGHIVSFAMGMGGLPWIIMAEIFPMNVKVSAGTLVTVTNWLFGWIITYTFNFMLEWNASGMFLIFSMVSASSIVFIYFLVPETKGRSLEEIQALLNNSVQ |
| 5242 | sp|A0A0H2ZDT7|FLDP\_PSEAB | MSKAVVVYFSGYGHTKRVAQAAAEGAQASLVEIDSEGNIPEAAWDLLDQAQSILFGAPTYMGSVPWQFKKFADATSRKWFVRQWQDKVFGGFTNSASLNGDKQVSLILMHTLASQHGGIWVSLGLAPANTSASSRADINNLGASVGALVQSPSDADAQAIPSGDLETVKLYAARVARIGQQLHA |
| 5243 | sp|Q39JD0|GRPE\_BURL3 | MENTQENPATQSAEDIGSEKQAAQGAAPAAEAADAALAEAQAKVAELQESYLRAKAETENVRRRAQDDVSKAHKFAIEGFAEHLLPVLDSLEAAVNDTSGDITKVREGVELTLRQLTNALEKGRVVALNPVGEKFDPHQHQAISMVPAEQEPNTVVTVLQKGYTIADRVLRPALVTVAQPK |
| 5244 | sp|C1F924|GRPE\_ACIC5 | MSRKLHEEELTPEGMDAAQNADPAGDPVSENEGALPAAEPQAQILQEEVERLRAERDAALADREAFQDRLARLQAEFDNARKREAKERSEFRDYSVASTAEAFLPVLDNFQLALASTGTAEQLRMGVELIVKQMDEALRSLSIIPIETVGAQFDPRVHEALEMVEREDVPDHQVIEEVRRGYRIRERLMRPALVRIASNSKQTQA |
| 5245 | sp|Q7WGI2|GRPE\_BORBR | MTAPQEPVDSTPESGENAATPGLEDDLSAELAALRAELEAAQATVKAQQEQVLRAAAEAENVRRRAQEDVAKARKFGIESFAESLVPVKDSLEAALAQPDQAAQAWREGVEVTLKQLTAAFERNLLKEIAPAQGDKFDPHLHQAISSVPADQPANTVLQLLQKGYVIADRTLRPALVVVSAGQG |
| 5246 | sp|Q8XIT0|GRPE\_CLOPE | MVDNKDFNEELKENIQEELDNETKAENPNIDEEVEEVSEDIKADEKVIDFEELQALKEENTMFKSKTKKLENELEALKDRLLRISAEYENYRKRTDKEKERIYTDACEDVLIKMLPVLDNLERALAVDGTVEDLKKGVEMTVRQFEDALEKLQVEEISTENGFDPELHQAMMVVEQEGAEPNQVAQVFQKGYKRGDKVIRHSMVTVTK |
| 5247 | sp|B7MYA6|GRPE\_ECO81 | MSSKEQKTPEGQAPEEIIMDQHEEIEAVEPEASAEQVDPRDEKIANLEAQLAEAQTRERDGILRVKAEMENLRRRTELDIEKAHKFALEKFINELLPVIDSLDRALEVADKANPDMSAMVEGIELTLKSMLDVVRKFGVEVIAETNVPLDPNVHQAIAMVESDDVAPGNVLGIMQKGYTLNGRTIRAAMVTVAKAKD |
| 5248 | sp|B6I635|GRPE\_ECOSE | MSSKEQKTPEGQAPEEIIMDQHEEIEAVEPEASAEQVDPRDEKIANLEAQLAEAQTRERDGILRVKAEMENLRRRTELDIEKAHKFALEKFINELLPVIDSLDRALEVADKANPDMSAMVEGIELTLKSMLDVVRKFGVEVIAETNVPLDPNVHQAIAMVESDDVAPGNVLGIMQKGYTLNGRTIRAAMVTVAKAKA |
| 5249 | sp|Q09134|GRPA\_MEDSF | MVLLISSEVSARDLTETTSDAKKEVVEKTNEVNDAKYGGGYNHGGGGYNGGGYNHGGGGYNNGGGYNHGGGGYNNGGGGYNHGGGGYNNGGGGYNHGGGGYNNGGGGYNHGGGGYNGGGYNHGGGGYNHGGGGCQYHCHGRCCSHAEFVAMQAKDNTQN |
| 5250 | sp|A4QHI9|GRPE\_CORGB | MTTPNGMPDNPGDPENTDPEATSADRAEQAAEEAAARQAEESPSGQALEEEISPELEAEINDLLSDVDPDLDGDGEVSAVETQLAERTEDLQRVTAEYANYRRRTERERQGIIDTARASVVTQLLPLLDDLDLAEQHGDLNEGPLKSLSDKLINILGGLKVESFGEIGEAFDPEIHEAVQDLSQGDVKVLGTVLRKGYRLGDRVIRTAMVLIGDPEES |
| 5251 | sp|Q8DF59|GRPE\_VIBVU | MSNEENKINEEALKQQDAAEVEVEAVGTDADIEWNEEADESAAKIAELEAALLASEARVKEQQDSVLRAKAEVENMRRRTEQEIDKARKYALNRFAEELLPVIDNLERAIQAADAESEAVKPLLEGVELTHKTFVDVVSKFGLKEINPEGQPFNPEWHQAMSIQESPDHESNTVMFVMQKAMN |
| 5252 | sp|Q73GX9|GRPE\_WOLPM | MSDSSKEKKKKFADMVSRQKGDDQQSDNHKQTDDLNEDLNTLKERAVQLEDHLRRAVADNENVKRIMQKQISDASDYAVTKLARDMIDSCDNLKRVMEILKDGDPVHEGIKVAYQKIINDLKKHGIKEVDPLGELFDSNLHQAVVEREDNEKEPGTIVEVLQTGYTIKNRLLRPAMVILSKKSADCGND |
| 5253 | sp|O06941|GRPE\_STRMU | MSKKDKKEEIKEEVEATEPTTEESVEEVAEETSENKELQEALERAEDFENKYLRAHAEMQNIQRRANEERQSLQRYRSQDLAKAILPSLDNLERALAVEGLTDDVKKGLEMVQESLIQALKEEGVEEVELENFDPNLHMAVQTLDADDDHPADSIAQVLQKGYQLHERLLRPAMVVVYN |
| 5254 | sp|Q5GSA3|GRPE\_WOLTR | MSDSSKERKKKFTGMVNKQKSEDQQNNSKQADDLDELKTLKERAVQLEDHLRRAVADNENVKRIMQKQISDANDYAVTKFARDMIDSCDNLKRVMEILKDDDPVHEGIKVAYKKIMNDLKKHGIEEIDPIGELFDSNLHQAVVEREDNEKKTGTIVEVLQTGYTIKNRLLRPAMVIISKKNC |
| 5255 | sp|P80238|GS26\_BACSU | MNQQDIKQKVLDVLDHHKVGSLATVQKGKPHSRYMTFFHDGLTIYTPTSKETHKAEEIENNPNVHILLGYDCEGFGDAYVEVAGKAKINNSAELKDKIWSSKLERWFDGKDDPNLVILEIEPEDIRLMNAGEKTPVSLEL |
| 5256 | sp|Q5NRL4|GRPE\_ZYMMO | MTEEQKKYEDAENLESKSENPEEASAEKSENGVEDLQAENEKLKKDLLYSKAEAQNTRRRLEKEKSEAIAYSVTGFARDMLSVADNMERALAAIPDDIKQDEKIKNLVTGIEMTGKELLNILQRHGIKRVESVGQKLDPNLHQAMIEIESEKPEGTVVQEMQAGYTIHDRLLRPAMVGVAKAQSGETKSA |
| 5257 | sp|A4VPQ6|GRPE\_PSEU5 | MADEQNLDNQNPETPEQSQADVAEDLAARVQSLEEQLAAAQDQSLRVAAELQNIRRRAEQDVEKAHKFALEKFAGDLLAVADSLERGLELSNPDDEAVKPMREGVELTLKLLLDTLARHQLEQLDPHGEPFNPEHHQAMAMEESTHVEPGSVLKVFQKGYLLNGRLLRPAMVVVSKAPADAPPSIDEKA |
| 5258 | sp|Q46I46|GRPE\_PROMT | MNSDVSSSEHELSQDGSSQNNPSENSVSSPNSNESVNQVELSDNPEVEPQVKNDSVDTANEQSSTSCESNIKGSDTEARLQQLEKEHETLNSQYMRIAADFDNFRKRQTRDQDDLKIQLTCTTLSEILPIVDNFERARQQLNPEGEEAQALHRSYQGLYKQLVEVLKNLGVAPMRVVDQAFDPSLHEAVMREPSDEKAEDIVIEELQRGYHLNGRVLRHALVKVSMGPGPKVINEEIPDQSASNQELSESVDGSTKDEN |
| 5259 | sp|O69267|GRPE\_LYSSH | MIMRRIQVTETTENKDLVQGDVQAETATEEVERSEVQEEIELSVEEQYEANVAELQAKLDDDEENRHLRLRADFDNMRRRQQLDGEAAEKYRAQSLLSDLLPVLDNFERALQVETTSEETASIIKGIEMVYRSLLEATVFEGLQVIKAEGEQFDPNIHQAVMQEQDSEKETGVVLRELQKGYILKDRVLRPTMVSVNE |
| 5260 | sp|Q9CNU1|GRPE\_PASMU | MSNKEQHIEKEEQLQEEKHEEQQKTEETEVEAVNGVDPLEEAILRVQELEAQLTEMVKKEQDFLLRSRAEMDNIRRRAEQDVEKAHKFGLEKFSKDILNTIDNLERALATPANLEDESIKSLFDGVELTLKELLATVSRFGVEAVGVVGETFNPEVHQAISMQPMEGFETNQITVVLQKGYLLNGRVIRPAMVMVAA |
| 5261 | sp|Q6GBT6|HCHA\_STAAS | MSQDVNELSKQPTPDKAEDNAFFPSPYSLSQYTAPKTDFDGVEHKGAYKDGKWKVLMIAAEERYVLLENGKMFSTGNHPVEMLLPLHHLMEAGFDVDVATLSGYPVKLELWAMPTEDEAVISTYNKLKEKLKQPKKLADVIKNELGPDSDYLSVFIPGGHAAVVGISESEDVQQTLDWALDNDRFIVTLCHGPAALLSAGLNREKSTLEGYSVCVFPDSLDEGANIEIGYLPGRLKWLVADLLTKQGLKVVNDDMTGRTLKDRKLLTGDSPLASNELGKLAVNEMLNAIQNK |
| 5262 | sp|G4N7S6|HAT1\_MAGO7 | MAESDLWSVDANSALELSLVEPTEDGLTTVTRFHPRFTYPLFGEEEQIFGYQDLKINLQYHAPDMRPNVKITHSKKFKSIGETQPTDLDALLQGYLPPVAFAKKREFEDAIRLMPADWTPPGEILSEFDGVDGAKFEIRRSNLADDASRQIIDRVQLLILLFIEGGSYIGTDTTDSLDRWDIFFLYNIKPSTTDGTSRYQFAGYSTVYKFFPLQRFPLEPKEAHENLELPSGEFPFSNLRSRTRISQFLILPPFQKSGNGSRLYRTIYDYCLRDPNVIEVTVEDPNEAFDDMRDVADLDFLRQKSEFTDLRINTDIHIPKQGAAPRGVVDEVKSEEARCLYRIAPRQFSRVLEMHLMSRLAETVRPTLVDDKVVAKPTKIETHEYDLWKLFVKQRLYRHNKEVLSQLDRHDRIERLNETLGSVELEYARILALAERRTQATSSNLKRKLDDDENTEGSSSKKARVEDA |
| 5263 | sp|Q8ZIW2|HFQ\_YERPE | MAKGQSLQDPFLNALRRERVPVSIYLVNGIKLQGQVESFDQFVILLKNTVSQMVYKHAISTVVPSRPVSHHSNTPSGSTNNYHGSNPSAPQQPQQDSDDAE |
| 5264 | sp|B3QIM2|HFQ\_RHOPT | MAADRAQNLQDTFLNHVRKTKTPLTIFLVNGVKLQGIVTWFDNFCLLLRRDGHSQLVYKHAISTIMPGAPIQLFESGEDSPA |
| 5265 | sp|A1U4C5|HFQ\_MARHV | MSKGHSLQDPYLNALRKERIPVSIFLVNGIKLQGQIESFDQFVILLKNTVSQMVYKHAISTVVPARNVRLPQQNPAGEGESED |
| 5266 | sp|B2U9V4|HFQ\_RALPJ | MSNKGQLLQDPFLNALRKEHVPVSIYLVNGIKLQGNIESFDQYVVLLRNTVTQMVYKHAISTVVPARAVNFRVDEAPDA |
| 5267 | sp|C5CXH1|HFQ\_VARPS | MSNKGQLLQDPFLNTLRREHVPVSIYLVNGIKLQGQIESFDQYVVLLRNTVTQMVYKHAISTIVPGRAVNFSAAENDDAAA |
| 5268 | sp|A3D024|HFQ\_SHEB5 | MAKGQSLQDPFLNALRRERVPVSIYLVNGIKLQGQVESFDQFVILLKNTVSQMVYKHAISTVVPARPFNVTGHQNAQGGYGAQDDAPSGE |
| 5269 | sp|Q7MYU0|HFQ\_PHOLL | MAKGQSLQDPFLNALRRERVPVSIYLVNGIKLQGQIESFDQFVILLKNTVSQMVYKHAISTVVPSRPVSHHSSNTSVGASVGNYHSGGVSAPAAQQESDGTE |
| 5270 | sp|C5BRH7|HFQ\_TERTT | MSKGHSLQDPYLNVLRKERIPVSIYLVNGIKLQGQVESFDQFVVLLKNTVSQMVYKHAISTVVPSRPVRVPMLNPESTGNDDMESGA |
| 5271 | sp|Q0HR42|HFQ\_SHESR | MAKGQSLQDPFLNALRRERVPVSIYLVNGIKLQGQVESFDQFVILLKNTVSQMVYKHAISTVVPARPFNVAGHQNAQGGYGAQDDMPSGE |
| 5272 | sp|Q6VBB2|HFA2B\_ORYSJ | MDDPMLNAVKEEESHGDGGGLEVVAGEDGAAAVAAGVAPRPMEGLHDAGPPPFLTKTYDMVDDAGTDAAVSWSATSNSFVVWDPHAFATVLLPRFFKHNNFSSFVRQLNTYGFRKVDPDRWEFANENFLRGQRHLLKNIKRRKPPSHTASNQQSLGPYLEVGHFGYDAEIDRLKRDKQLLMAEVVKLRQEQQNTKANLKAMEDRLQGTEQRQQQMMAFLARVMKNPEFLKQLMSQNEMRKELQDAISKKRRRRIDQGPEVDDVGTSSSIEQESPALFDPQESVEFLIDGIPSDLENSAMDAGGLVEPQDFDVGASEQQQIGPQGELNDNFWEELLNEGLVGEENDNPVVEDDMNVLSEKMGYLNSNGPTAGE |
| 5273 | sp|P06582|HSP12\_CAEEL | MSLYHYFRPAQRSVFGDLMRDMALMERQFAPVCRISPSESSEIVNNDQKFAINLNVSQFKPEDLKINLDGRTLSIQGEQELKTDHGYSKKSFSRVILLPEDVDVGAVASNLSEDGKLSIEAPKKEAVQGRSIPIQQAIVEEKSAE |
| 5274 | sp|Q9SV12|HFA7A\_ARATH | MMNPFLPEGCDPPPPPQPMEGLHENAPPPFLTKTFEMVDDPNTDHIVSWNRGGTSFVVWDLHSFSTILLPRHFKHSNFSSFIRQLNTYGFRKIEAERWEFANEEFLLGQRQLLKNIKRRNPFTPSSSPSHDACNELRREKQVLMMEIVSLRQQQQTTKSYIKAMEQRIEGTERKQRQMMSFLARAMQSPSFLHQLLKQRDKKIKELEDNESAKRKRGSSSMSELEVLALEMQGHGKQRNMLEEEDHQLVVERELDDGFWEELLSDESLASTS |
| 5275 | sp|A4W443|HSLO\_STRS2 | MDKIIKTLSKSGHFRAFVLDSTETVKTAQEKHDTMASSTVALGRTLIANQILAVNEKGDTKITLKILASGAVGAIISVANTKGQVKGYIQNPDLDYKRTATGEVIVGPLVGNGQFLVITDYGTGHPYNSMTPLISGEIGEDFAYFLTDSQQTPSAVGLNVLLDEEDKVKVAGGFLLQVLPGATEVEIARFEKRIQEMPAISSLLASENHIEALLSAIYGDDDFKRLSEEEIGFVCDCSKDRFLDALASLPKADLQEMKEEDKGVDITCQFCQTHYHFDENDLEELING |
| 5276 | sp|Q39E36|HTPG\_BURL3 | MAHETMSFQAEVKQLLHLMIHSLYSNKEIFLRELVSNASDAADKLRFEGLADNALYEDDPNVRIRIGYDKAARTITIDDNGIGMSRDEAIANLGTIARSGTKEFFTKLSGDQQKDAALIGQFGVGFYSGFIVADKITVETRRAGLPASEAVRWESAGEGDFTIDAIERAQRGTTITLHLREGEDELLSSHRLQSIIQKYSDHIALPILMQKEEWDQEKGEMVLKDEDETVNQASALWTRSKSEVSDEQYTQFYQHIAHDHQDPLTWTHNRVEGRSEYTQLLFVPSHAPFDMWNRDYRGGLKLYVKRVFIMDDAEQLLPQYLRFVKGVVDSADLPLNVSREILQESRDVKAIREGVTKRALSMLEELANAEEDAGKEKYKTFWGAFGQVLKEGLGEDHANRERIAKLLRFASTHGDTDAQDVSLADYVSRMKPEQSRIYYVTADAWQAAKNSPHLEVFRKKGVEVLLLTDRVDEWMLSFLQEFDGKPLASVARGDLDLGELNDEEKKAQEEAGEAIKPVVEKMKEALGDKVKEVRVTFRLTDSPSCLVADDNDMSGYLQRMLKAAGQNAPAMQPILEINPEHALVKQLKADSADFGDWCHLLFDQALLAEGGMLDDPASFVKRTNALLLSRAA |
| 5277 | sp|B1KUN4|HTPG\_CLOBM | METKQFKAESKRLLDLMINSIYTHKEIFLRELISNSSDAMDKIYYKTLTEDSLKFERDDYYIKVVFDKENRVLKIADTGIGMTKEELENNLGVIAKSGSLQFKKENEVKEGYDIIGQFGVGFYSAFLVSDDVTVISKAFGSNEAYKWNSKGAEGYTIEPCEKEAYGTEIILKIKDNTEEENYDEFLDEYTLKSIIKKYSDFIRYPIKMDLTKTKPKEDNKEEFEEYKEEETINSMVPIWRKNKNELKAEDYENFYAEKHYGFDKPIKYIHTSVDGVVSYNAILFIPETTPYDFYTKEYEKGLELYSSGVLIMNKCGDLLPDYFGFVKGIVDSEDLSLNISREILQHDRQLKLIAKNIKTKIKNELESLLKKERDKYEKFYESFGRQLKYGVYSDFGSNKDILQDLLMFYSSKEKKMVTLAEYVSRMPEDQKYIYYAVGESNERIEKLPQIEGVLDKGYEVLYFTDDIDEFAIKMLMNYKEKEFKSVSSGDLGIEGEEKENTSSSDDKENKELFESMKDILSGKVKDVRASKRLKNHPVCLANEGELSIEMEKVLNAMPNNQNIKADKVLEININHDVFKPLKEAYEGDKEKLKLYTDLLYNQALLIEGLTINDPVEFTNNICKIMK |
| 5278 | sp|O81821|HFA1B\_ARATH | MESVPESVPSPNSNTPSIPPPVNSVPPFLSKTYDMVDDPLTNEVVSWSSGNNSFVVWSAPEFSKVLLPKYFKHNNFSSFVRQLNTYGFRKVDPDRWEFANEGFLRGRKQLLKSIVRRKPSHVQQNQQQTQVQSSSVGACVEVGKFGIEEEVERLKRDKNVLMQELVRLRQQQQATENQLQNVGQKVQVMEQRQQQMMSFLAKAVQSPGFLNQLVQQNNNDGNRQIPGSNKKRRLPVDEQENRGDNVANGLNRQIVRYQPSINEAAQNMLRQFLNTSTSPRYESVSNNPDSFLLGDVPSSTSVDNGNPSSRVSGVTLAEFSPNTVQSATNQVPEASLAHHPQAGLVQPNIGQSPAQGAAPADSWSPEFDLVGCETDSGECFDPIMAVLDESEGDAISPEGEGKMNELLEGVPKLPGIQDPFWEQFFSVELPAIADTDDILSGSVENNDLVLEQEPNEWTRNEQQMKYLTEQMGLLSSEAQRK |
| 5279 | sp|Q63W07|HTPG\_BURPS | MTQQTMSFQAEVKQLLHLMIHSLYSNKEIFLRELVSNASDAADKLRFEALENNALYESDPNLRIRLSFDKAARTITIDDNGIGMSRDEAIANLGTIARSGTKEFFSKLSGDQQKDAALIGQFGVGFYSGFIVADRITVETRRAGLPASEGVRWESAGEGDFQVDTIERAARGTTITLHLREGEDELLSSYRLKSIVQKYSDHVALPILMKKEEWDQEKGEMVEKDEDETINQASALWTRAKSEVTDEQYKQFYQHVAHDHQDPLAWTHNRVEGRSEYTQLLFVPSHAPFDLWNRDYRGGLKLYVKRVFIMDDAEQLLPQYLRFIKGVVDSSDLPLNVSREILQESRDVKAIREGVTKRALSMLEELANAEDDAGKEKYKTFWSAFGQVLKEGVGEDHANRERVAKLLRFASTHGDTDAQDVALADYVARMKPEQTKIYYVTADTWQAAKNSPHLEVFRKKGVEVLLLTDRVDEWMLSFLHEFDGKPLASVARGDLDLGALNDDEKKAQEETGEAMKPVVDKMKETLGEKVKDVRVTFRLTDSPSCLVADDNDMSGYLQRMLKAAGQSAPSFQPILEINPEHPLVKALKADGADFGDWCHLLFDQALLAEGGALEDPASFVKRTNALLLSRAA |
| 5280 | sp|Q0IAP2|HSLO\_SYNS3 | MGDCLVRATAAGGGIRLVAVITTEATREARRRHRLSYLTTVMLGRAMSAGLLLASSMKVRHGRVNLRIGSDGPIGGLFVDAGRDGRVRGYVGHPELELDPIEDEAGHYSFDFNAAAGTGYLHVVRDEGKGEPFSSTVELVRGGIGEDVASYLLHSEQTPSAVFVGETISQEGLECSGGLLVQVLPKAAREPALVALLEERCREIHNFSKHLRDNQDHLEDLLKDVFPDLDPQPIPVGEPLQPIQFSCPCSRERSINALRLFGKEELNKMLKEDKGAELTCHFCSEVYKVDEKELSELINSL |
| 5281 | sp|A8EV23|HTPG\_ARCB4 | MAKHQFQTEVGQLLHLMTHSLYSNKEIFIRELVSNASDAIDKLNYLRLTDENLKDKYAQWKGEINISFDEKDKSLSIIDNGIGMNEADLIASIGTIAKSGTKSFVEALTGDAKKDSNLIGQFGVGFYSVFMVADKVDVISKKAGEEQAYKWSSTGTGEFDLTPCTKESNGTVIYIKLKDEEAGEFASKYRIKNIVEKYSNHIAYPIFLNYDEEVSEALSEEDEKAGKKPEKKIERKHEQINAATALWMQPKAKLKEQDYNDFYKSISHDSSDPMLTIHTKTEGVNEYTTLFYIPKIAPMDMYRADFQSGVKLYVKRVFITDDEKELLPTYLRFVRGIIDSEDLPLNVSREILQENRILANIKQGSVKKILAEIKKLSKDEEKYAEFVAQYIRPLKEGVYQDYTNKEAILELLRYKSSKTEAGKMTSLEAYKERANSEQKAIYYIVGENEKVLRNSPLLESYKKNDIEVLILDDKEIDEIITPAIGAFKEWEFKDITAIEPPKVEQSEEEKKEVEEKFQDILSKIKDKLGDAVKDVKVTSRLSESPSCVVKDAADAQMAAMAHMFRAMGQAMPESAPILEINPEHEIVKKLNGCADEATIEDVSWILLDQAKLSEGMEITDTVAFAQRLSRITAKAL |
| 5282 | sp|Q48FR0|HTPX\_PSE14 | MMRILLFLATNLAVVLIASITLSLFGFNGFMAANGVDLNLNQLLVFCAVFGFAGSLFSLFISKWMAKMSTGTQIISQPRTRHEQWLLQTVEQLSRDAGIKMPEVGIFPAYEANAFATGWNKNDALVAVSHGLLERFSPDEVKAVLAHEIGHVANGDMVTLALVQGVVNTFVMFFARIIGNFVDKVIFKSENGQGIAYYITTIFAELVLGFLASAIVMWFSRKREFRADDAGARLAGTDAMIGALQRLRSEQGVPVNMPDSLTAFGINAGLKKGLAGLFMSHPPLEQRIEALRRRG |
| 5283 | sp|A5VT37|HSLU\_BRUO2 | MSNFSPREIVSELDRFIIGQKDAKRAVAIALRNRWRRQQLEGQMREEVMPKNILMIGPTGVGKTEISRRPAKLAGAPFVKVEATKFTEVGYVGRDVEQIIRDLVEIAITLVREKRREDVKAKAHLNAEERVLDALVGKTASPATRDSFRKKLRNGEMDDKEIEIEVSDSGASPNFEIPGMPGANIGVLNISDMLGKAMGGRTKTRKTTVKDSYPILINDESDKLLDQDQIVQEALRVSEDEGIVFIDEIDKIAAREGGSGAGVSREGVQRDLLPLVEDTTVATKYGPVKTDHILFITSGAFHVSKPSDLLPELQGRLPIRVELSALTREDFRRILTETEASLIKQYIALMETEEVKLEFSDDAIDALADIAVDLNATVENIGARRLQTVMEKVLDEISFTAPDKAGATFIIDAAYVKEKIGGLAKNTDLSRFIL |
| 5284 | sp|A7FV42|HTPG\_CLOB1 | METKQFKAESKRLLDLMINSIYTHKEIFLRELISNSSDAIDKIYYKTLTDDSLKFERDNYYIRVVSDKENRILKIADTGIGMTKEELENNLGVIAKSGSLQFKKENEVKEGYDIIGQFGVGFYSAFLVSDDVTVISKAFGSNEAYKWNSKGAEGYTIEPCEKETYGTEIILKIKDNTEEENYDEFLEEYTLKSIIKKYSDFIRYPIKMDLTKTKPKEDNKEEFEEYKEEETINSMVPIWRKNKNELKAEDYENFYAEKHYGFDKPIKYIHTSVDGVVSYNAILFIPETTPYDFYTKEYEKGLELYSSGVLIMNKCGDLLPDYFGFVKGIVDSEDLSLNISREILQHDRQLKLIAKNIKTKIKNELESLLKKERDKYEKFYESFGRQLKYGVYSDFGSNKDILQDLLMFYSSKEKKMVTLAEYVSRMPEDQKYIYYAVGESNERIEKLPQIEGVLDKGYEVLYFTDDIDEFAIKMLMSYKEKEFKSVSSGDLGIEGEEKENTSNSDDKENKELFESMKDMLSGKVKDVRASKRLKNHPVCLANEGELSIEMEKVLNAMPNNQNIKADKVLEININHDVFKSLKEAYEGDKEKLKLYTDLLYNQALLIEGLAINDPVEFTNNICKIMK |
| 5285 | sp|P15992|HSP26\_YEAST | MSFNSPFFDFFDNINNEVDAFNRLLGEGGLRGYAPRRQLANTPAKDSTGKEVARPNNYAGALYDPRDETLDDWFDNDLSLFPSGFGFPRSVAVPVDILDHDNNYELKVVVPGVKSKKDIDIEYHQNKNQILVSGEIPSTLNEESKDKVKVKESSSGKFKRVITLPDYPGVDADNIKADYANGVLTLTVPKLKPQKDGKNHVKKIEVSSQESWGN |
| 5286 | sp|P46208|HTPG\_BACSU | MAKKEFKAESKRLLDMMINSIYTQKEIFLRELISNSSDAIDKIYYKALTDDALTFDKDSYYIKVAADKDARTLTISDTGIGMTKDELEQHLGTIAKSGSLAFKKENELKDGHDIIGQFGVGFYAAFMVADVVTVISKALGSEEAYKWESAGADGYTIEPCEKDSVGTDIILKIKENTEDDSYDEFLEEYRLKAIIKKYSDFIRYPIKMDTTINKPKEGSENEFEEVQEEQTVNSMVPIWRKNKSELTDEDYEKFYAEKHYGFDKPLTHVHISVDGAVRYNAILFVPENMPFDYYSKEYEKGLELYSNGVLIMNKCADLLPDHFSFVKGMVDSEDLSLNISREMLQHDRQLKLIAKNISKKIKSELQSLLKKDREKYETFYKSFGRQLKFGVYNDFGANKDQLKDLLLFYSSKEKKLVSLDEYVSRMPEEQKFIYYATGDSYDRIEKLPQTEMVADKGYEILYFTEDIDEFAIKMLASYQEKEFKSVSSGDLGIDTDEDQKQSEEEESKYKDLFEEMKNILSDKVKNVRISKRLKSHPVCLAADGEVTIEMEKILNAMPDSQNVKAEKVLEINPNHEVFQTLQDAFEQDKEKLSLYTNLLYNQALLIEGLPIQDPVEFTNNICKVMV |
| 5287 | sp|A5UB42|HTPG\_HAEIE | MSQNQETRGFQSEVKQLLQLMIHSLYSNKEIFLRELISNASDAADKLRFKALSNPALYEGDGDLRVRVSFDADKGTITISDNGIGMTREQVIDHLGTIAKSGTKEFLTALGQDQAKNSQLIGQFGVGFYSAFIVADKVTVKTRAAGEEADKAVLWESAGEGEYSVADIEKKSRGTDVILHLCEDEKEFLNEWRLREIIGKYSDHIGLPVEMLTKEYDDEGKECGEKWEKINKSDALWTRSKNDVSDEEYKAFYKHLSHDFADPVTWAHNKVEGNQAYTSLLYVPAKAPWDLFNREHKHGLKLYVQRVFIMDDAEQFMPNYLRFMRGLIDSNDLPLNVSREILQDNKITAALRKALTKRSLQMLEKLAKDDAEKYLQFWKEFGLVLKEGPTEDFANKETVAKLLRFASTHNDGSEQAVSLEDYILRMKEGQKAIYYITADSYVAAKNSPHLELFNKKGIEVLLLSDRIDEWMLSYLTEFDGKQLQSITKADLDLGDLADKESETQKQQDEAFGSFIERVKNLLGERVKTVRLTHNLTDTPAVVSTDNDQMTTQMAKLFAAAGQPVPEVKYTFELNPEHHLVKKVADIADETEFADWVELLLEQAMLAERGSLENPAAFIKRINKLLG |
| 5288 | sp|Q09675|HSP32\_SCHPO | MSIAKGKNALLVASSYYGPFYPDGKNTGVHFSELLIPYNVFKKAGFNVQFVSENGSYKFDDHSIEESKLGDFERKVFNDKNDDFWTNLNNMKKASDIVGKDYQLLFVAGGHAAMFDLPKATNLQAVAREVFTNGGVLSAVCHGPVLLANVKNPQSVEGKTVVYHKHVTAFNKAGEEKMGVMDELKKRGMKSLNEIFAEAGATFIDPPNPNVNFTQIDGKIVTGVNPQSAKSTAEAAVSAL |
| 5289 | sp|Q8K981|HTPG\_BUCAP | MNIQKKEVYSFQSEVKQLLHLMIHSLYSNKEIFLRELISNASDAIDKLRFQSISNPELYENDSDFKIQISINKSQGTLIISDNGIGMTRQDVVENLGTIAKSGTKSFIKSLEKKEKNVKNELIGEFGVGFYSSFIVSKKVSVRTRFAGSKSNLGVLWESSGEGEYNITDIKKKTRGTEITLFLKKEEEEFLELWRIEGIVSKYSDHITVPVKIQKYDEKNKIYFWEKINKAKALWTQNKATISEKEYQEFYKHLTNDQNNPLFWSHNHVEGINEYISLLFIPEKAAWDIWNRDNKSGLKLYVKRVYIMDNSQAFLPNYLRFIRGLIDSNNLPLNVSREILQDNSITQNLKKALIKRSLKMLQTLSKKDNEKYQIFWNQFGSVLKEGPAEDSNNLNLIASLLRFTSIQNNSSEQNISLEKYISNMHEKQEKIYYITADSYTSAKNSPHLELFNKKNIDVLLLSDRIDEWMMNYLTEFEGKKFQSISKEDLSLNKLTKENENKKETSTEMIEFLKKVKKTLGDKVKSVRLTYRLTETPCIVLSDSNEMSTQMAKLFSAAGQSVPELKYIFEINPEHKLIQKICKIKENEKFDEWIKLLLDQALFAEKGNLENPHEFIARTNKLILEQ |
| 5290 | sp|A5I3B0|HTPG\_CLOBH | METKQFKAESKRLLDLMINSIYTHKEIFLRELISNSSDAIDKIYYKTLTDDSLKFERDNYYIRVVSDKENRILKIADTGIGMTKEELENNLGVIAKSGSLQFKKENEVKEGYDIIGQFGVGFYSAFLVSDDVTVISKAFGSNEAYKWNSKGAEGYTIEPCEKETYGTEIILKIKDNTEEENYDEFLEEYTLKSIIKKYSDFIRYPIKMDLTKTKPKEDNKEEFEEYKEEETINSMVPIWRKNKNELKAEDYENFYAEKHYGFDKPIKYIHTSVDGVVSYNAILFIPETTPYDFYTKEYEKGLELYSSGVLIMNKCGDLLPDYFGFVKGIVDSEDLSLNISREILQHDRQLKLIAKNIKTKIKNELESLLKKERDKYEKFYESFGRQLKYGVYSDFGSNKDILQDLLMFYSSKEKKMVTLAEYVSRMPEDQKYIYYAVGESNERIEKLPQIEGVLDKGYEVLYFTDDIDEFAIKMLMSYKEKEFKSVSSGDLGIEGEEKENTSNSDDKENKELFESMKDMLSGKVKDVRASKRLKNHPVCLANEGELSIEMEKVLNAMPNNQNIKADKVLEININHDVFKSLKEAYEGDKEKLKLYTDLLYNQALLIEGLAINDPVEFTNNICKIMK |
| 5291 | sp|A7ZAI5|HTPG\_BACVZ | MRKKKFKAESKRLLDMMINSIYTQKEIFLRELISNASDAIDKIYYKALTDDSLTFDQDNYYIKVTADKEARTLTVTDTGIGMTKDELEQHLGTIAKSGSLAFKQENDSKDGHDIIGQFGVGFYAAFMVADKVTVKSKALGSDEAYVWESEGAAGYTIAPCDKETIGTEITLKIKENTEDESYDEFLENYRIKAIVKKYSDFIRYPIKMEETVNKPKEGSENEFEEVQEEQTVNSMVPIWRKNKSELTDEDYEAFYAEKHYGFDKPLTHVHISVDGAVRYNSILFIPENMPFDYYTKEFEKGLELYSNGVLIMNKCADLLPDHFSFVKGMVDSEDLSLNISREMLQHDRQLKLIAKNINKKIKAELKSLLKNKREKYESFYESFGRQLKFGVYNDFGANKDVLKDLLLFYSSKEKKLVTLDEYVSRMPEDQKYIYYASGDSYERIEKLPQTEMVADKGYEILYFTEDIDEFAIKMLTSYEEKEFKSVSSADLGIDSDEDEKQTEAEENEYKDLFESMKEILADKVKNVRASKRLKSHPVCFATDGEVTIEMEKVLNAMPDSQQVKAEKVLEINPNHEVFETLKNAHGQDREKLALYTNLLYNQALLIEGLPIHDPVEFTNDICKVMV |
| 5292 | sp|P44516|HTPG\_HAEIN | MSQNQETRGFQSEVKQLLQLMIHSLYSNKEIFLRELISNASDAADKLRFKALSNPALYEGDGDLRVRVSFDADKGTITISDNGIGMTREQVIDHLGTIAKSGTKEFLTALGQDQAKNSQLIGQFGVGFYSAFIVADKVTVKTRAAGEEADKAVLWESAGEGEYSVADIEKKSRGTDVILHLREDEKEFLNEWRLREIIGKYSDHIGLPVEMLTKEYDDEGKECGEKWEKINKSDALWTRSKNDVSDEEYKAFYKHLSHDFVDPVTWAHNKVEGNQAYTSLLYVPAKAPWDLFNREHKHGLKLYVQRVFIMDDAEQFIPNYLRFMRGLIDSNDLPLNVSREILQDNKITAALRKALTKRSLQMLEKLAKDDAEKYLQFWKEFGLVLKEGPAEDFANKETVAKLLRFASTHNDGSEQTVSLEDYILRMKEGQKAIYYITADSYVAAKNSPHLELFNKKGIEVLLLSDRIDEWMLSYLTEFDGKQLQSITKADLDLGDLADKESETQKQQDEAFGSFIERVKNLLGERVKTVRLTHNLTDTPAVVSTDNDQMTTQMAKLFAAAGQPVPEVKYTFELNPEHHLVKKVADIADETEFADWVELLLEQAMLAERGSLENPAAFIKRINKLLG |
| 5293 | sp|A0KL53|HTPG\_AERHH | MTQSVHAETHGFQTEVKQLLSLMAHSLYSNKEVFLRELISNASDAADKLRFKALSDASLFENDGQLRVRLVVDKENRTLTISDNGIGMTRDQVIEHLGTIAKSGTAEFFKNLSGDQGRDSQLIGQFGVGFYSAFIVADKVTVVSRAAGTAPEQGVQWESEGEGSFTVADVTKAGRGTDVILHLRAEEDEFLDDWRLRSVVSKYSDHISVPVEMYKEGTPDSVGEGEEDGETIVGTPGEWEQVNRATALWTRNPKEIKDEEYQEFYKHVAHDFEDPLLWGHNRVEGAQEYTSLLYVPARAPFDLYNRDQKHGLKLYVQRVFIMDDAEQFMPAYLRFVKGVLDSNDLPLNVSREILQDNKVTVSLRKACSKRVLTMLAKLAKDDAEKYAKFWSEFGNVLKEGPAEDYANREEIAKLLRFASTAGEGEAQTVSLEDYVGRMKEGQQKIYYITADSYAAAKNSPHLEIFRKKGVEVLLMWERVDEWLMSHLTEFDGKQLVSVTRGELDLGDLEDEASKQAQEEAEKANAGLVERVKQSLGEAVKEVRVTHRLTDSPSCIVTDAHGMSTQMIKLMRAAGQPVPEQKYILELNPDHALVKKLGAIEDEALFGEWVTLLHEQAQLAEQGGLNDPASFVSRINRLLLQA |
| 5294 | sp|Q91233|HSP70\_ONCTS | MSSAKGPSIGIDLGTTYSCVGVFQHGKVEIIANDQGNRTTPSYVAFTDTERLIGDAAKNQVAMNPNNTVFDAKRLIGRKFNDQVVQADMKHWPFKVVSDGGKPKVQVDYKGENKSFNPEEISSMVLVKMREIAEAYLGQKVSNAVITVPAYFNDSQRQATKDAGVIAGLNVLRIINEPTAAAIAYGMDKGMSRERNVLIFDLGGGTFDVSILTIEDGIFEVKATAGDTHLGGEDFDNRLVSHFVEEFKRKHKKDISQNKRALRRLRTACERAKRTLSSSSQASIEIDSLFEGIDFYTSITRARFEEMCSDLFRGTLEPVEKALRDAKMDKAQIHDVVLVGGSTRIPKVQKLLQDFFNGRELNKSINPDEAVAYGAAIQAAILSGDKSENVQDLLLLDVAPLSLGIETAGGVMTALIKRNTTIPSKQTQTFTTYSDNQPGVMIQVYEGERAMTKDNNLLGKFELSGIPPAPRGVPQIEVTFDIDANGILNVSAVDKSTGKENKITITNDKGRLSKEDIERMVQDADKYKAEDDAQREKIAAKNSLESYAFNMKSSVEDDNMKGKISQEDKKKVVDRCDQTISWLENNQLGDKEEYEHQLKELEKVCQPIITKLYQQGGMPTGCCGDQARTSSGDSSQGPTIEEID |
| 5295 | sp|B0USJ0|HTPG\_HISS2 | MSTNQETRGFQSEVKQLLQLMIHSLYSNKEIFLRELISNASDAADKLRFKALSAPELYEGDGDLKVRISFDAEKGTLTISDNGIGMTREQVIDHLGTIAKSGTKEFLAALGQEQAKDSQLIGQFGVGFYSAFIVADKVTVKTRAAGEPIDRAVLWESAGEGEYSVADIEKRERGTEITLHLREEEKEFANEWRVREIIGKYSDHIGLPVEILAKEYDEEGKETGIKWEKINKAQALWTRSKGEISDEEYKEFYKHLSHDFADPLLWTHNKVEGNQEYTSLLYVPSKAPWDLFNREHKHGLKLYVQRVFIMDDAEQFMPNYLRFMRGLIDSNDLPLNVSREILQDNKVTAALRKALTKRSLQMLEKLAKDDEEKYLQFWKEFGLVLKEGPSEDFANKENIAKLLRFASSKNDSSEQTVSLEDYVARMKEGQKAIYYITADSYIAAKNSPHLELFNKKDIEVLLLSDRIDEWMLSYLTEFDGKQLQPITKADLDLGDLADKEQEEQKEQDKTFSSFIERVKTLLGERVKDVRLTHRLTDTPAVVSTDNDQMTTQMAKLFAAAGQPVPEVKYTFELNPEHHLVKKVADFADEDEFANWIELLLEQAMLAERGSLENPTAFIKRVNNLLG |
| 5296 | sp|B5R8V8|HTPX\_SALG2 | MMRIALFLLTNLAVMVVFGLVLSLTGIQSSSVQGLLIMALLFGFGGSFISLLMSKWMALKSVGGEVIEQPRNERERWLMNTVATQARQAGIAMPQVAIYHAPDINAFATGARRDASLVAVSTGLLQNMSPDEAEAVIAHEISHIANGDMVTMTLIQGVVNTFVIFISRIIAQIAAGFLGGNRDEGEGSNGNPLIYFAVATVLELVFGILASIITMWFSRYREFHADAGSAKLVGREKMIAALQRLKTSYEPQEATSMMAFCINGKSKSLSELFMTHPPLDKRIEALRSGEYLK |
| 5297 | sp|O61998|HSP90\_BRUPA | MSEEMNGETFAFQAEIAQLMSLIINTFYSNKEIFLRELISNSSDALDKIRYQALTEPAELETGKELYIKITPNKADKTLTIMDTGIGMTKADLVNNLGTIAKSGTKAFMEALQAGADISMIGQFGVGFYSAFLVADKVVVASKHNDDDCYQWESSAGGSFIIRQVNDPELTRGTKITLYIKEDQTDYLEERRIKEIVKKHSQFIGYPIKLTVEKERDKEVSDDEAEEEKKDEDKEKKEGEIEDVGEDEEEDKKDKDKKKKKIKEKYHEDEELNKTKPIWTRNPDDISNEEYAEFYKSLSNDWEDHLAVKHFSVEGQLEFRALLFVPQRAPFDLFENKKTKNAIKLYVRRVFIMENCDELMPEYLNFIKGVVDSEDLPLNISREMLQQSKILKVIRKNLVKKCLELFDEIAEDKDNFKKFYEQFSKNIKLGIHEDSTNRKKLSEFLRFYTSASSEEMTSLKDYVSRMKENQKQIYFITGESREAVASSAFVERVKRRGFEVIYMTDPIDEYCVQQLKEYDGKKLVSVTKEGLELPESEEEKKKFEEDKVKFENLCKVMKDILEKKVEKVAVSNRLVSSPCCIVTSEYGWSANMERIMKAQALRDSSTMGYMAAKKHLEINPDHSVIKALRERVEADKNDKTVKDLVVLLFETALLSSGFSLEDPQLHASRIYRMIKLGLDITEDEEEEAIASVSGEKDECVPNLVGAEEDASRMEEVD |
| 5298 | sp|B7KZ48|HSLU\_METC4 | MTTFSPREIVSELDRFIVGQKDAKRAVAIALRNRWRRQQLKGPLRDEVAPKNILMIGPTGCGKTEIARRLARLAGAPFLKIEATKFTEVGYVGRDVEQIVRDLVEVGIGLTREEKRKAVKAKAEAAAESRILDALVGPTASQATRESFRKKLRASELDDKEVEIELAPSGSQGMPMFEIPGMPGASMGAINISDMLGKALGGQRGKPRRITVAEAYAPLIAEESDKLVDDDALTREAIREVEDNGIVFLDEIDKICAREGRSGADVSREGVQRDLLPLIEGTTVATKHGPVKTDHILFIASGAFHVSKPSDLLPELQGRLPIRVELQPLTVEDFKQILTATEASLIKQTVALMETEGVTLDFTEDAIDALARVAVEVNGSVENIGARRLQTVLERVIDEISFTATDRSGETVPIDAAYVRDRVEDLAANADLSRFIL |
| 5299 | sp|Q66DP8|HTPG\_YERPS | MNMKGQETRGFQSEVKQLLHLMIHSLYSNKEIFLRELISNASDAADKLRFRALSNPELFEGDGELRVRLSFDKEKRTLTLSDNGIGMTRDEVIDNLGTIAKSGTKAFLESIGSDQAKDSQLIGQFGVGFYSAFIVADKVTVRTRAAGAPADTGVFWESAGEGDYTIADITKDERGTEITLHLREGEDEYLDDWRLRSVISKYSDHIALPVEIQVKNEEDGTVTWEKINKAQALWTRGKAEISDDEYKAFYKHIAHDFTDPLSWSHNRVEGKQEYTSLLYIPAQAPWDMWNRDHKHGLKLYVQRVFIMDEAEQFMPNYLRFVRGLIDSNDLPLNVSREILQDSRITQNLRSALTKRVLQMLEKLAKDDAEKYQQFWQQFGMALKEGPAEDGSNKETIAKLLRFASTHTDSSAQTVSLEDYVSRMAEGQEKIYYITADSYAAAKSSPHLELFRKKGIEVLLLSDRIDEWMMSYLTEFEGKAFQSVSKADDSLNKLADEENPEQQEAEKALEPFVERVKTLLGERVKDVRLTHRLTDTPAIVTTDADEMSTQMAKLFAAAGQQAPEVKYIFELNPDHGLVKRAAEVTDDTQFAQWVELLLDQALLAERGTLEDPNQFIRRMNQLLTA |
| 5300 | sp|Q321Y6|HTPX\_SHIBS | MMRIALFLLTNLAVMVVFGLVLSLTGIQSSSVQGLMIMALLFGFGGSFVSLLMSKWMALRSVGGEVIEQPRNERERWLVNTVATQARQAGIAMPQVAIYHAPDINAFATGARRDASLVAVSTGLLQNMSPDEAEAVIAHEISHIANGDMVTMTLIQGVVNTFVIFISRILAQLAAGFMGGNRDEGEESNGNPLIYFAVATVLELVFGILASIITMWFSRHREFHADAGSAKLVGREKMIAALQRLKTSYEPQEATSMMAFCINGKSKSLSELFMTHPPLDKRIEALRTGEYLK |
| 5301 | sp|Q0BAX8|HSLU\_BURCM | MSTMTPAEIVSELDKHIIGQAKAKKAVAVALRNRWRRQQVGEPLRQEITPKNILMIGPTGVGKTEIARRLAKLADAPFVKIEATKFTEVGYVGRDVDSIVRDLIEISVKQTREAEMRKVRTKATDQAEDRILDVLLPQPRAVGFGGNADHANDDNNATRQTFRKRLREGQLDDKEVELDLEQPSAGMDIMAPPGMEEMTEQIRSMFSNLGSGKKQRRKVKIKEALKLLTDEEAAKMLNDEEVKTKAVQNVEQNGIVFLDEIDKITSRNNEGSGGEVSRQGVQRDLLPLVEGTTVNTKYGMVKTDHILFIASGAFHLAKPSDLIPELQGRFPIRVELDSLSVEDFEAILDATDASLVKQYQALLATEDVQLEFAADGIRRLAEIAYAVNEKTENIGARRLYTVIEKLLEEVSFSAGNHAGERVTIDAKYVEHALGEVSQDEDLSRYVL |
| 5302 | sp|B0U0M7|HTPG\_FRAP2 | MSEKKYTFETEVDKLLHLVIHSLYSNREIFLRELVSNSSDAIEKLRYESISNAALNEDDTDYAIRIDFDKDAKTITVSDNGIGMTEEEVIENLGTIAKSGTKKFLESLTGDKSKDNELIGQFGVGFYSSFIVADKVTVRTRKAGQDKSQATKWVSDAQNGFTVETITKEKRGTEITLHIKEDQLDLLDYHLLKSLVNKYSDCINTPIQMKKVEHDKDGKQIIKDEYETVNNTKAIWLRSKDEVTDEEYQEFYKYISHDFADALMWIHNKVEGNLEYNSLLYIPQNKPFDFWNRDKDYGLSLYVRRVFIMENKELLPPYLRFVKGVIDSADLPLNVSREILQHNKVIDKIKKAITTKILSELKKLASKDTEKYQKFWDSFGQVLKEGVSDDYSNKEKIAGLLRFATTESGDAKQTVSLADYVSRMKEGQDTIYYITSDSYKAAVNNPQLEAFKKKGIEVILMTDRIDEWMMSTLTEFDGKHMKSIIKGDIDLDKFETPENKEKFEKEAKDFEKVLKEIKEVLKDKVEDVRLSKRLTDSPSCVVVNDYGMSLHMQKMMEEAGQGFMPGMGMKPILELNAEHNLVQKLKNEADTEIFADLSELLLLQAMFVEGAKIEDPMAFVKLVNKYIR |
| 5303 | sp|Q4UDU8|HSP90\_THEAN | MASKEETPDQEVYAFNADISQLLSLIINAFYSNKEIFLRELISNASDALEKIRYEAIKDPKQIEDQPDYYIRLYADKNNNTLTIEDSGIGMTKADLVNNLGTIAKSGTRAFMEALQAGSDMSMIGQFGVGFYSAYLVADKVTVVSKNNADDQYVWESSASGHFTVKRDDSHEPLKRGTRLILHLKEDQTEYLEERRLKELVKKHSEFISFPISLSVEKTQETEVTDDEAEPEEEKKLEEEDKDKEEKVEDVTDEKVTDVTEEEEKKEEKKKKKRKVTNVTREWEMLNKQKPIWMRLPTEVTNEEYASFYKNLTNDWEDHLAVKHFSVEGQLEFKALLFVPRRAPFDMFESRKKKNNIKLYVRRVFIMDDCEELIPEWLSFVKGVVDSEDLPLNISRETLQQNKILKVIRKNLVKKCLELFNELTEKKEDFKKFYEQFSKNLKLGIHEDNANRSKIAELLRFETTKSGDELVSLKEYVDRMKSDQKFVYYITGESKQSVASSPFLETLKARDYEVLYMTDPIDEYAVQQIKEFEGKKLKCCTKEGLELDEGEDEKKSFEALKEEMEPLCKHIKEVLHDKVEKVVCGTRFTDSPCALVTSEFGWSANMERIMKAQALRDSSITSYMLSKKIMEINPRHSIMKELKARAANDKTDKTVKDLVWLLYDTALLTSGFNLDEPTQFGNRIYRMIKLGLSLDDEEHVEDDSSMPPLDEPVVDSKMEEVD |
| 5304 | sp|Q11QT3|HSLU\_CYTH3 | MTALQGFLTPTEIVAELDKYIIGQHDAKRNVAIALRNRWRRMHADADMRKEIMPNNILLIGPTGVGKTEIARRLAKLADAPFTKVEASKFTEVGYVGRDVESMVRDLVEQAVNMVKTQKKEEVKIKVSQVVEDILLDLLIPPVKSTGMGFKTASTQSIDTNEIPDNDQELNERTRELFREKIRSGELDERKVEINVQQQGPGVGVVGGAMDEASMMNIQEMIGNMMPKKTKKRKLSIAEARKILLEEESAKLIDMDDVKDEAIRKTENMGIIFIDEIDKVASSKKGNGPDVSREGVQRDLLPIVEGSAVNTKYGTVHTDHILFIAAGAFHVSKPSDLIPELQGRFPIRVELNSLTEADFYHILKEPKNALTRQYQALLSSENVNIEFHDDALKAISEIAFELNVEVENIGARRLHTVMSHLLNELLFDVPDKIETHSTVVITKELVDQKLKGLVKNRDLSQFIL |
| 5305 | sp|Q32F28|HTPX\_SHIDS | MMRIALFLLTNLAVMVVFGLVLSLTGIQSSSVQGLMIMALLFGFGGSFVSLLMSKWMALRSVGGEVIEQPRNERERWLVNTVATQARQAGIAMPQVAIYHAPDINAFATGARRDASLVAVSTGLLQNMSPDEAEAVIAHEISHIANGDMVTMTLIQGVVNTFVIFISRILAQLAAGFMGGNRDEGEESNGNPLIYFAVATVLELVFGILASIITMWFSRHREFHADAGSAKLVGREKMIAALQRLKTSYEPQEATSMMAFCINGKSKSLSELFMTHPPLDKRIEALRTGEYLK |
| 5306 | sp|B6EML9|HSLU\_ALISL | MSEMTPREIVHELDSHIIGQDKAKRSVAIALRNRWRRMQLQPELRAEVTPKNILMIGPTGVGKTEIARRLAKLANAPFIKVEATKFTEVGYVGKEVDSIIRDLTDVAIKMTHQQAVEKVKFRAEEQAEDRILDILLPPARDAWGKNEEGDNDSGTRQSFRKKLREGKLDDKEIDVDVAAPQVGVEIMAPPGMEEMTNQLQGMFQNLSGGETTKKRKMKIKDALKALAEEEGAKLVNPEELKEQAIFNVENHGIVFIDEIDKICKGSNSQSGDVSREGVQRDLLPLVEGSTVSTKHGMVRTDHMLFITSGAFQMAKPSDLIPELQGRLPIRVELEALTANDFKRILTEPNASLTEQYIALLATENVNIEFTEDGISRIAESAFRVNETTENIGARRLHTVMERLMEEISYDASEKGGDSLTVDDAYVTSRLGELIENEDLSRFIL |
| 5307 | sp|A6V7J7|HTPG\_PSEA7 | MSVETQKETLGFQTEVKQLLHLMIHSLYSNKEIFLRELISNASDAADKLRFEALANPELLEGGAELKIRVSFDKEANTVTLEDNGIGMSREDVVTHLGTIAKSGTADFLKNLSGDQKKDSHLIGQFGVGFYSAFIVADKVDVYSRRAGQPASEGVHWSSKGEGEFDVATIDKPERGTRIVLHLKKGEEEFADGWRLRNVIKKYSDHIALPIELPKEFHGEEAEKPAEPEWETVNRASALWTRPRAEVKDEEYQEFYKHVAHDFENPLSWSHNKVEGKLEYTSLLYVPGRAPFDLYHREAPRGLKLYVQRVFIMDQADEFLPLYLRFIKGVVDSNDLSLNVSREILQKDPVIDSMKSALTKRVLDMLEKLAKNEPEQYKTFWKNFGQVLKEGPAEDFGNKEKIAGLLRFASTGGDSGEQSVALADYIGRMKEGQDKIYYLTGESYSQVKNSPHLEVFRKKGIEVLLLTDRIDEWLMSYLPDFDGKSFVDVARGDLDLGSLDSEEDKKAQEEVAKSKEGLIERLKKVLDEQASEVRVSHRLTDSPAILAIGEQDLGLQMRQILEASGQKVPESKPIFEINPQHPLIEKLDAEPDEDRFGELSHILFDQAALAAGDSLKDPGAYVRRLNKLLVELSA |
| 5308 | sp|Q24789|HSP70\_ECHGR | MMSKGPAVGIDLGTTFSCVGVFQHGKVEIIANDQGNRTTPSYVAFTDTERLIGDAAKNQVAMNPTNTVFDAKRLIGRRFDDRAVQDDIKHWAFKVINAGGKPKIEVEYRGETKCFSAEEISSMVLLKMKETAEAYLGKKVSDTVISVPAYFNDSQRQATKDAGTISGLNVLRIINEPTAAAIAYGLDKKVERERNVLIFDLGGGTFDVSILSIEDGIFEVKSTAGDTHLGGEDFDSRLVNHFVEEFKRKHKGKDLTTNKRAVRRLRTACERAKRTLSSSAQANIEIDSLLEGIDFYTSITRARFEELCSDLFRSTLDPVEKALRDAKLDKGAVHEIVLVGGSTRIPKVQKLLQDFFNGRELNKSINPDEAVAYGAAVQAAILTGDKSEAVQDLLLLDVAPLSLGLETAGGVMTALIKRNTTIPTKQTQTFTTYSDNQPGVLIQVYEGERAMKRDNNLLGKFELSGIPPGPRGVPQIEVTFDIDANGILNVSAVDKSTGKQNKITITRDKGRLSKEEIERMVNDAEKFKQEDEKQRDRVAAKNGLESYAFSMKSTVEDEKVKEKIGESDRRRIMEKCEETVKWLDGNQQAEKEEYEHRQKELESVCNPIIAKMYQEAGGVGGIPGGIPGGGMPGGTPGGGIPAGMAGGMSGDPSSGGRGPTIEEVD |
| 5309 | sp|Q5R7D3|HSP71\_PONAB | MAKAAAIGIDLGTTYSCVGVFQHGKVEIIANDQGNRTTPSYVAFTDTERLIGDAAKNQVALNPQNTVFDAKRLIGRKFGDPVVQSDMKHWPFQVINDGDKPKVQVSYKGETKAFYPEEISSMVLTKMKEIAEAYLGYPVTNAVITVPAYFNDSQRQATKDAGVIAGLNVLRIINEPTAAAIAYGLDRTGKGERNVLIFDLGGGTFDVSILTIDDGIFEVKATAGDTHLGGEDFDNRLVNHFVEEFKRKHKKDISQNKRAVRRLRTACERAKRTLSSSTQASLEIDSLFEGIDFYTSITRARFEELCSDLFRSTLEPVEKALRDAKLDKAQIHDLVLVGGSTRIPKVQKLLQDFFNGRDLNKSINPDEAVAYGAAVQAAILMGDKSENVQDLLLLDVAPLSLGLETAGGVMTALIKRNSTIPTKQTQIFTTYSDNQPGVLIQVYEGERAMTKDNNLLGRFELSGIPPAPRGVPQIEVTFDIDANGILNVTATDKSTGKANKITITNDKGRLSKEEIERMVQEAEKYKAEDEVQRERVSAKNALESYAFNMKSAVEDEGLKGKISEADKKKVLDKCQEVISWLDANTLAEKDEFEHKRKELEQVCNPIISGLYQGAGGPGPGGFGAQGPKGGSGSGPTIEEVD |
| 5310 | sp|P10592|HSP72\_YEAST | MSKAVGIDLGTTYSCVAHFSNDRVDIIANDQGNRTTPSFVGFTDTERLIGDAAKNQAAMNPANTVFDAKRLIGRNFNDPEVQGDMKHFPFKLIDVDGKPQIQVEFKGETKNFTPEQISSMVLGKMKETAESYLGAKVNDAVVTVPAYFNDSQRQATKDAGTIAGLNVLRIINEPTAAAIAYGLDKKGKEEHVLIFDLGGGTFDVSLLSIEDGIFEVKATAGDTHLGGEDFDNRLVNHFIQEFKRKNKKDLSTNQRALRRLRTACERAKRTLSSSAQTSVEIDSLFEGIDFYTSITRARFEELCADLFRSTLDPVEKVLRDAKLDKSQVDEIVLVGGSTRIPKVQKLVTDYFNGKEPNRSINPDEAVAYGAAVQAAILTGDESSKTQDLLLLDVAPLSLGIETAGGVMTKLIPRNSTIPTKKSEVFSTYADNQPGVLIQVFEGERAKTKDNNLLGKFELSGIPPAPRGVPQIEVTFDVDSNGILNVSAVEKGTGKSNKITITNDKGRLSKEDIEKMVAEAEKFKEEDEKESQRIASKNQLESIAYSLKNTISEAGDKLEQADKDAVTKKAEETIAWLDSNTTATKEEFDDQLKELQEVANPIMSKLYQAGGAPEGAAPGGFPGGAPPAPEAEGPTVEEVD |
| 5311 | sp|Q9BQS6|HSPB9\_HUMAN | MQRVGNTFSNESRVASRCPSVGLAERNRVATMPVRLLRDSPAAQEDNDHARDGFQMKLDAHGFAPEELVVQVDGQWLMVTGQQQLDVRDPERVSYRMSQKVHRKMLPSNLSPTAMTCCLTPSGQLWVRGQCVALALPEAQTGPSPRLGSLGSKASNLTR |
| 5312 | sp|Q5Z3N4|HTPG\_NOCFA | MTEHVEQLEFQAETHQLLELMIHSVYSNKDTFLRELISNASDALDKLRLESFKDKDLHVDTADLHIELEVDKDNRILTVRDNGIGMSRAEVVDLIGTLAKSGTAELRRKLSEAKSEAAAEELIGQFGIGFYSTFMVADKVTLTTRKAGETGGTRWESSAGSSTYTIEDLAEAPQGTAVSLHLKPADEEDHLYDYTQEWKLREIVKKYSDFIAWPIRMQVERTVTEGEGEDKQEKTIVEEQTLNSRKALWTRPRGEVSDEEYKEFYKHVSHAWDEPLEIIPLKAEGTFEYQALLFLPSQAPFDLFTREHKRGVQLYVKRVFIMDNCEELMPEYLRFVKGVVDAQDLSLNVSREILQQDRQIQMIRKRLVKKVLATVKDLQQAEDQSKYQTFWREFGRVLKEGLLSDFDNRETILQVSSFASTHSDSELTTLAQYVERMPEGQDAIYYMTGESRQQVESSPHMEAFKAKGREVLILTDPVDEMWVGSVPEFDGKRFQSIAKGEVDLESEEEKKASEALREQQDKEFADLLSWLGKTLEENIKEVRLTNRLTTSPACLVGDVFDFTPMLERMYRASGQPVPVSKRILELNPTHPLVTGLRDAYDQRKQDADEGKVPELTETAELLYGTAVLAEGGELKDPARFAHILTDRLTRTL |
| 5313 | sp|Q6LTE2|HTPG\_PHOPR | MSEQGTHINKETRGFQSEVKQLLHLMIHSLYSNKEIFLRELISNASDAADKLRFRALSQPDLFENDADIGVKLSFNAEAGTLTVSDNGIGMNRDDVIEHLGTIAKSGTKDFFSKLSNDESKDSQLIGQFGVGFYSSFIVAKSVTVNTRAAGEAADKGVSWTSEGEGDYTVEDINKTTRGTDIILHLRDDEAEFLNEHRLRDIIGKYSDHIGIPVHILVTENDDEGKPTGSKWEQINKAQALWTRNKSEITEEEYKEFYNHVSHDFAEPLTWSHNRVEGTQDYTSLLYVPSKAPWDMNNRDSKHGLKLYVQRVFIMDDAQQFMPSYLRFMRGLIDSNDLPLNVSREILQDNKVTQALRKASTKRALTMLDRMAKNDAEKYQTFWTEFGQVLKEGPAEDFSNREKIANLLRFSSTHNDTADQTVSVADYVSRMKEGQEKIYFLTADSFTAAKNSPHLEQFRAKGLEVILMHDRIDEWLMSQLPEFDGKPFQAITKADLDLSKFENEEDKEKQKEAAEEFKSVVERAKGYLGTRVKDVRTTFKLHDTPAVVVTDENEMGTQMAKLLAAAGHDAPEVQYIFEINPEHGLVKQMANEADEETFGRWVELLLGQAMLAERGSLEDPSQYVAAVNKLLTKV |
| 5314 | sp|A9IMR3|HSLU\_BART1 | MCIVFSPRETVSELDRFIIGQNDAKRSVAIALRNRWRRQQLDEPMREEVMPKNILMIGPTGVGKTGIARRLAKLSGAPFVKVEATKFTEVGYVGRDVEQIIRDLVEIAVSLVREKKRDEIKEKAHMNAEERVLDALVGKTASPATRDSFRKKLREGELDEKEIEIEVADNNSNSASTFDIPGMPGAQMGIMNLSDILGKMGNRTKVRKTTVRDAFKPLIDDESEKLLDQEQIIQEALRVAENDGIVFIDEIDKIATKDGGASAAVSREGVQRDLLPLVEGTTIATKYGQIKTDHILFIASGAFHVSKPSDLLPELQGRLPIRVELNPLTREDLRRILTEPEASLIKQYIALMATEEVHLEITDDAIDALADIAVDLNARIENIGARRLQTVMERVLDEISFTAPDKAGTSFKIDAAYVRKSIGELAADIDLSRFIL |
| 5315 | sp|O49710|HS154\_ARATH | MDFQTIQVMPWEYVLASQSLNNYQENHVRWSQSPDSHTFSVDLPGLRKEEIKVEIEDSIYLIIRTEATPMSPPDQPLKTFKRKFRLPESIDMIGISAGYEDGVLTVIVPKRIMTRRLIDPSDVPESLQLLARAA |
| 5316 | sp|A7ME45|HSPQ\_CROS8 | MIASKFGIGQQVRHSLLGYLGVVVDIDPEYSLDEPEVDELAVNAELRAAPWYHVVMEDDDGQPVHTYLAEAQLSGEMQEEHPEQPSMDELARSIRQQLQAPRLRN |
| 5317 | sp|Q6FJI3|HSP7F\_CANGA | MSTPFGLDFGNDNSVLAVARNRGIDIVVNEVSNRSTPSMVGFGQKNRFLGESAKTKQTSNIKNTVGNLKRILGLDYDHPDFQEESKFFTSKLVKLEDGKIGTQVRFAGESTTFSATQLNAMFINKVKQTVETETKANITDVCIAVPTWYTEEQRYAAADAARIAGLNPVRIVNDITAAGVSYGVFKTDLPEGEEKPRIVAFIDIGHSSYTCSIMAFKKGELKVLGTAWDKNFGGRNFDRAITEHFADEFKTKYKIDIRENPKAYNRVMTSAERLKKVLSANTAAPFSVENVMNDVDASSQLSREELEELVKPMLERVTEPVTKALAQAGLTKDDVDFVEIIGGTTRIPTLKNSISEAFGKPLSTTLNQDEAIAKGAAFICAIHSPTLRVRPFKFEDIHQFSVSYKWDKQVEDEDHLEVFPANSNFPSTKLITLHRSGDFSMEANYTNKEELPPHLDANIAKWDITGVQIPEGETSVPVKLKLRCDPSGLHIIEEAYSLEDIVVKEEVPLPEDAPEDAVPEVKEVTKTVKKDTLEITAHTFTLADDKLNTLIEKENDMTAQDRLVAETEDRKNNLEEYIYTLRGKLDEEYSDFASDAEKTKLKDMLAKAEEWLYEDGFDTIKAKYIAKYEELAAIGNVIRGRYLAKEEEKKQALRAKQEAANLAALSEKLAAQRSADSEAKKDATPEGDAQMDLD |
| 5318 | sp|Q2GDR7|HTPG\_NEOSM | MEKTEHKNTYSFDADASKVLNLVIHSLYRHKDVFLRELISNASDALNKLREASYFDQELLEDNPELEILISLNKEKKILEISDNGIGMDEKELVENLGTVARSGTEKFLESLKDKKVDLIGQFGVGFYSVFMVADKVEVETRKAGTKKGYIWGSRGRDSFYVDELGESVSRGTKIRIYLKDNSEEFLDKFKLEHVVVTNSNHIAFPIYLIDEKGEKDQINSASAIWTKNKTEITDEEHQNFFRDVAHVGGKPWMIIHNKNEGSTEYINLLYVPSIKPFDLYNPDRRASVKLYIKKVFITEENVQLIPQYLRFLKGVVDCADLPLNISRETLQYNNALVKIKKSLTNRVLNELKKRADSNPEEYISGFWNNFGAVLKEGLCEAMPTDERERLFALCRFYSLKKEKLISLDEYIQDMHPEQKEIYCLCSTSFESAKNSPQLEGFVSRGLDVLFFTDPVDDFWISVSHEYKSYNIKSITRSSIDLDAFAELEKAGQEVQQHHDKEIDRLIAKMQEVLKDEVESVRISKRLTESPVCLAVPDGAMDIRMEKFMLEQKQLHSRSKKILEINASHPVIGKIIGKVDSPEVEDLIFLLYDQACILQGDEVRNPVRMSKALTRLLLMT |
| 5319 | sp|P12076|HSP71\_LEIMA | MFARRVCGSAAASAACLARHESQKVQGDVIGVDLGTTYSCVATMDGDKARVLENSEGFRTTPSVVAFKGSEKLVGLAAKRQAITNPQSTFYAVKRLIGRRFEDEHIQKDIKNVPYKIVRAGNGDAWVQDGNGKQYSPSQIGAFVLEKMKETAENFLGHKVSNAVVTCPAYFNDAQRQATKDAGTIAGLNVIRVVNEPTAAALAYGMDKTKDSLIAVYDLGGGTFDISVLEIAGGVFEVKATNGDTHLGGEDFDLALSDYILEEFRKTSGIDLSKERMALQRVREAAEKAKCELSSAMETEVNLPFITANADGAQHIQMRISRSKFEGITQRLIERSIAPCKQCMKDAGVELKEINDVVLVGGMTRIRSGGGGEEVLPEGPVRGVNPDEAVALGAATLGGVLRGKASDLILVDVTPLSLGTSVVGDVFVPIIPKNTTIPCMRSHIFTTVDDGQTAIKFKVFQGEREIASENQIRGEFDLSGIPPAPRGVPQVEVTFDIDANGICHVTAKDKATGKTQNITITANGGLSKEQIEQMIRDSEQHAEADRVKRELVEVRNNAETQLTTAERQLGEWKYVSDAEKENVKTLVAELRKAMENPNVAKDDLAAATDKLQKAVMECGRTEYQQAAAANSGQC |
| 5320 | sp|A4TKV5|HSPQ\_YERPP | MIASKFGIGQQVRHSLHGYLGVVIDIDPEYSLAPPEPDEVANNKTLRSSPWYHVVIEDDDGQPVHTYLAEAQLTYEDVDAHPEQPSLDELAASIRHQLQAPHLRN |
| 5321 | sp|P10961|HSF\_YEAST | MNNAANTGTTNESNVSDAPRIEPLPSLNDDDIEKILQPNDIFTTDRTDASTTSSTAIEDIINPSLDPQSAASPVPSSSFFHDSRKPSTSTHLVRRGTPLGIYQTNLYGHNSRENTNPNSTLLSSKLLAHPPVPYGQNPDLLQHAVYRAQPSSGTTNAQPRQTTRRYQSHKSRPAFVNKLWSMLNDDSNTKLIQWAEDGKSFIVTNREEFVHQILPKYFKHSNFASFVRQLNMYGWHKVQDVKSGSIQSSSDDKWQFENENFIRGREDLLEKIIRQKGSSNNHNSPSGNGNPANGSNIPLDNAAGSNNSNNNISSSNSFFNNGHLLQGKTLRLMNEANLGDKNDVTAILGELEQIKYNQIAISKDLLRINKDNELLWQENMMARERHRTQQQALEKMFRFLTSIVPHLDPKMIMDGLGDPKVNNEKLNSANNIGLNRDNTGTIDELKSNDSFINDDRNSFTNATTNARNNMSPNNDDNSIDTASTNTTNRKKNIDENIKNNNDIINDIIFNTNLANNLSNYNSNNNAGSPIRPYKQRYLLKNRANSSTSSENPSLTPFDIESNNDRKISEIPFDDEEEEETDFRPFTSRDPNNQTSENTFDPNRFTMLSDDDLKKDSHTNDNKHNESDLFWDNVHRNIDEQDARLQNLENMVHILSPGYPNKSFNNKTSSTNTNSNMESAVNVNSPGFNLQDYLTGESNSPNSVHSVPSNGSGSTPLPMPNDNDTEHASTSVNQGENGSGLTPFLTVDDHTLNDNNTSEGSTRVSPDIKFSATENTKVSDNLPSFNDHSYSTQADTAPENAKKRFVEEIPEPAIVEIQDPTEYNDHRLPKRAKK |
| 5322 | sp|A1VFG4|HRCA\_DESVV | MSALGSRETHVLTTIIESYITSAAPVGSRTVSRRSGLALSPASMRNTMSDLTDMGFLEQPHTSAGRIPTPKAFRLYVDALLRQSARRDEAPLHMVEALHGHEPEVGALLRRASNLVSEHARQVSMVLAPGPAEARLRSLDFVPAGEGLVLAVLVLEGGMVRTRLVRDDTHFGSDELVRFGNYINAHYRGHTLSGIRNSIHHELSGGGAQLEAMCAQALALGSLALDSIDDDRELYVNGTRNILDQAEFAELGRMRELMDALEERSRLLELLDRTILEDDVHVTFYPDDVSGAAQRRAPDGLRGCSMVSAPYGGASPLGVIGVIGPVRMDYRKVLPLVGAVSRVLTQLLRERFATG |
| 5323 | sp|A5ISD8|HSLU\_STAA9 | MDTAGIRLTPKEIVSKLNEYIVGQNDAKRKVAIALRNRYRRSLLDEESKQEISPKNILMIGPTGVGKTEIARRMAKVVGAPFIKVEATKFTEVGYVGRDVESMVRDLVDVSVRLVKAQKKSLVQDEATAKANEKLVKLLVPSMKKKASQTNNPLESLFGGAIPNFGQNNEDEEEPPTEEIKTKRSEIKRQLEEGKLEKEKVRIKVEQDPGALGMLGTNQNQQMQEMMNQLMPKKKVEREVAVETARKILADSYADELIDQESANQEALELAEQMGIIFIDEIDKVATNNHNSGQDVSRQGVQRDILPILEGSVIQTKYGTVNTEHMLFIGAGAFHVSKPSDLIPELQGRFPIRVELDSLSVEDFVRILTEPKLSLIKQYEALLQTEEVTVNFTDEAITRLAEIAYQVNQDTDNIGARRLHTILEKMLEDLSFEAPSMPNAVVDITPQYVDDKLKSISTNKDLSAFIL |
| 5324 | sp|P29845|HSP7E\_DROME | MLRVPKFLPRLARQAGVVPSHMSGASSMFRNLPGASNGISSQLRYKSGEVKGAVIGIDLGTTNSCLAVMEGKQAKVIENAEGARTTPSHVAFTKDGERLVGMPAKRQAVTNSANTFYATKRLIGRRFDDPEVKKDITNLSYKVVKASNGDAWVSSTDGKVYSPSQIGAFILMKMKETAEAYLNTPVKNAVVTVPAYFNDSQRQATKDAGQIAGLNVLRVINEPTAAALAYGMDKTEDKIIAVYDLGGGTFDISILEIQKGVFEVKSTNGDTLLGGEDFDNHIVNFLVAEFKKDSGIDIRKDNIAMQRLKEAAEKAKCELSSSQQTDINLPYLTMDAAGPQHMNLKLTRSKLESLVGDLIKRTIQPCQKALSDAEVSKSEIGEVLLVGGMTRMPKVQSTVQELFGRQPSRSVNPDEAVAVGAAVQGGVLAGDVTDVLLLDVTPLSLGIETLGGVFTRLISRNTTIPTKKSQVFSTASDGQTQVEIKVHQGEREMANDNKLLGSFTLVGIPPAPRGVPQIEVVFDIDANGIVHVSAKDKGTGKEQQIVIQSSGGLSKDEIENMIKKAEEYATADKQKRELIEIVNQGESIVHDTETKMEEFKSQLPAEECEKLKKEIADLRTLLANKETADLEEVRKATSSLQQSSLKLFELAYKKMSAERESNAGAGSSDSSSSSDTSGEAKKEEKN |
| 5325 | sp|A6WDI1|HRCA\_KINRD | MSDDRRLAVLRAIVEDYVSSHEPVGSKALVERHQLGVSPATIRNDMAVLEEEGYITQPHTSAGRIPTDKGYRLFVDRLANVKPMSPAEKRAIQTFLEGADDVDDIVDRTVRLLAQITRQAAVVQYPSLSRAAVRHVELVPVGGRSALLVLITDSGRVEQRVLDVRSAADPESLAAALAALRTRVNARVVGKRLRDAREDLTDLVQQTPPGDLAVAAEVAVALGDCLTAGLEERVVIAGTANLVKSGADLSTSLGSVLEALEEHVVLLRLVQELTEDSDRGGLTVRIGAENLHLGLDGTSVVTSGYGTGPDTVLARLGVLGPTRMDYPTTMAAVRAVSRYVSRILAQ |
| 5326 | sp|A5FPT3|HRCA\_DEHMB | MLTSRAEIILRSIVRQYITKAVPVSSSSILEDCGLDICSATIRNEVVRLEIEGYILRPHHSAGSIPADKGYRYYVESLKDVELPTNDKFLIRHLFHQVEKEMEEWLNLTVAVLSQRVQSMAVVTMPRQTQGKVHHIELVSLQDNLVLVVLILRGAKVKQQLVNFENVVSQPELTLISNRLNDAYDGLTRFQIEQKPLGLNHDELKVKDSLVKMMRGEDEQESREPFFDGLHYMLEQPEFHQNQRAQEIMQLLEQKKLSKMIVPPMPFNRGVQVYIGQENASAEIRDYSLIVSQYGIPDEAVGTIGVIGPTRMAYERALSAVSYLSLVMSTLVAELYGKAPVDKDE |
| 5327 | sp|A8FQL9|HSLU\_SHESH | MSEMTPREIVHELDTHIIGQHDAKRSVAIALRNRWRRMQLDVDFRQEVTPKNILMIGPTGVGKTEIARRLAKLAKAPFIKVEATKFTEVGYVGKEVEQIIRDLTDSAIKMTREDQMKKCKFKAEEAAEERILDALLPKPKEDWDNEKPDDSATRQIFRKKLREGQLDDKEIEIDVAAPQVGIEIMSPPGMEEMTNQLQSMFQNMGPGDSKRRKMPIKEAYKLMIEEEAAKLVNQDDMKEQAIELVEQHGIVFLDEIDKICKRGESSGPDVSREGVQRDLLPLVEGCTVNTKHGMVKTDHILFIASGAFQMSKPSDLIPELQGRLPIRVELSALTADDFKRILTEPHASLTEQHVAMMGTEDVKIEFTEDGIESIAQAAWQVNERTENIGARRLHTVMERLMEDLSYDASDKSGNTFVIDAEYVSSHLDDLVQDEDLSRFIL |
| 5328 | sp|B5QXM0|HSLU\_SALEP | MSEMTPREIVSELNKHIIGQDNAKRSVAIALRNRWRRMQLDEELRHEVTPKNILMIGPTGVGKTEIARRLAKLANAPFIKVEATKFTEVGYVGKEVDSIIRDLTDAAVKMVRVQAIEKNRYRAEELAEERILDVLIPPAKNNWGQAEQQQEPSAARQTFRKKLREGQLDDKEIEINLAAAPMGVEIMAPPGMEEMTSQLQSMFQNLGGQKQKPRKLKIKDAMKLLVEEEAAKLVNPEELKQDAIDAVEQHGIVFIDEIDKICKRGETSGPDVSREGVQRDLLPLVEGCTVSTKHGMVKTDHILFIASGAFQVAKPSDLIPELQGRLPIRVELQALTTSDFERILTEPNASVTVQYKALMATEGVNIEFTDSGIKRIAEAAWQVNETTENIGARRLHTVLERLMEEISYNASDLHGQNITIDAEYVSKHLDALVADEDLSRFIL |
| 5329 | sp|B5RF80|HSLU\_SALG2 | MSEMTPREIVSELNKHIIGQDNAKRSVAIALRNRWRRMQLDEELRHEVTPKNILMIGPTGVGKTEIARRLAKLANAPFIKVEATKFTEVGYVGKEVDSIIRDLTDAAVKMVRVQAIEKNRYRAEELAEERILDVLIPPAKNNWGQAEQQQEPSAARQTFRKKLREGQLDDKEIEINLAAAPMGVEIMAPPGMEEMTSQLQSMFQNLGGQKQKPRKLKIKDAMKLLVEEEAAKLVNPEELKQDAIDAVEQHGIVFIDEIDKICKRGETSGPDVSREGVQRDLLPLVEGCTVSTKHGMVKTDHILFIASGAFQVAKPSDLIPELQGRLPIRVELQALTTSDFERILTEPNASVTVQYKALMATEGVNIEFTDSGIKRIAEAAWQVNETTENIGARRLHTVLERLMEEISYNASDLHGQNITIDAEYVSKHLDALVADEDLSRFIL |
| 5330 | sp|Q98DN7|HRCA\_RHILO | MTKAIDPGSQPLALQSLDMRSRDIFRRIVDSYLRDGEPVGSRSLSRILPSSLSPATIRNVMSDLEHLGLIYAPHISAGRLPTQAGLRFFVDAFMELGDLSDEERRTIEAQVRASGSGATLEHMLTEASQMLSGMSRGAGLVLAAKNEVALKHIEFIQLEPTKALAVLVSQNGDVENRVVELPAGITVSQLHEASNFLNAHIRGRTLAEARTEIARIKEETRAALDTLSQDLVEKGLAVWAGAESGLPARLIVRGRANLLENVTAQADIELLRHLFEDMETQDGLIQLLDLAEQGSGVRIFIGSENKLFSLSGSSLVVAPYRDKDARVVGALGVIGPTRLNYARIVPMVDYTAQLISRMLR |
| 5331 | sp|B3PN01|HRCA\_MYCA5 | MEKRTNYPQLTEKQNHFFKLIVDTYIKTGASVASKELVKRCNLKCSSATIRNVMASLEQIGFLEKYHISSGRVPSTLGLEYYAKFLVYNPKKYFDQKLEDLLAKRRIKIDATLEEAAAIVSEVAGVTVVATSNNAAETMKSIQLTTLSELSAIVVIVTSSGRVESKIFNFENSDISLEDLRVAIRLFKERLVDTPLIHLANKARALTPIFGQQLKNYELILQKFIKNIFVFEEETTNKTFNKGAIVLSRNISREEIANVLDLIEKHSVWESIDNDLDEDNNIKLDVSRPNLSIISKKIDFSNEKNIKEITVIGPNNLDYGESFEALEMLEKIIKEKK |
| 5332 | sp|Q2P2A1|HTPX\_XANOM | MFNRIFLFLLTNVAVLMLAGVVMSVLGVNPAQMSGLLVMAAIFGFGGSFISLLLSKFMAKRSTGAQVITEPRTPTERWLLETVRRQAQAAGIGMPEVAVYDGPEINAFATGANRNNALVAVSTGLLQHMDQDEAEAVLGHEIAHVANGDMVTMALLQGVLNTFVIVLARVVGGIIDSAVSGNRDSGRGFAYYIIVFVLEMVFGMFATMIAMWFSRRREFRADAGGAQLAGRSKMIAALERLSLNHGQNTLPSQVQAFGISGGVGDGLRRLFLSHPPLTERIAALRAANGTAM |
| 5333 | sp|Q4A656|HRCA\_MYCS5 | MKQLKKQHEEILKAVVGAYLTQKNEISSALLVKNYGIKFSPAKVRYLMTALEDEGLLVKETKSSGRKPTNKGLEYYAKFLSNAFDLKLINNLEKIFLNRKDNIYNTIEEVTKELASLTGATFVTKFKDPNLILKSINLFEVSESLATIILVVSNGEVLSRKIDIPENKAIKISDLKIAMNIFQDNLIDCKLIDLEKRILLLKDILAEKIIQYEDVIESYVKSILGIGIKSQIYGRENIILSRKIAREDVNEILNILEKNSIWDALEKNSNDFEEIRISINSKGAFFSKRIDENNNLTEISVVAPNESDSNSIKSGIMLLTKIITNNINEKEKDKNERKHS |
| 5334 | sp|P36426|HRCA\_CHLTR | MENRIEMSQLRASKKDSKISYVLLMATKLYLEGGQPVGSKLLKETYCSDLSSATIRNYFAQLETDGFLRKNHISGGRIPTDLAFRYYADHNAPFLEQEEILAIQQKLTELPEYSKNIVKDLQKASEVLSDILQLPVCFSSPRFESDSVINIQLVAIDDQRVVFVLSTEFGQVFTDVLWLPEQLPENSLKRIEGFLQNYLRKQPSDSLLSQKEKDLGMVLYNEVVVRYLTRYCHFSEEDLYQTGLSRLLKYETFKDPETLAQGLAFFENRKHMCQLLNTYLHKETPTAFIGRELTDIVGNTDPSCAVITIPYYMDRTPLGAFGVLGPMNLPYQQVFGTLSLFTERLKVILTQSFYKFKLSFRRPCPTDPRCSQRPAELTRSSSIKLLPAKELS |
| 5335 | sp|B3EE33|HRCA\_CHLL2 | MDSPELTLRERQVLGIVIQSYVVSAAPVGSRYIARNYNLGLSDATIRNVMADLEREGFISQPHTSAGRVPTDKGYRYYVDLIMHVQRINDEEKRRIDADFGQLTCERKGTSTEVLFSAAKVLGTISRQLSVVLSPAFSNAVFEKLDMVLLSSSRMMVILSIRSLFLRTIVMELDIEVSRQMVDDVVAVLNERLSGLTLVEIRRTLVVRLSDCTCDSALLDRIVRSSGELFDETPMIERLYISGAEYIIDQPEFKQPEKVRDLISMIEDKTSVAKLVDDATAAVEAVKPQGMDVSITIGKENIERKAGELTILSTPYYVGDMVGKLGILGPTRMDYEHAVRVLNYMADCLSTTLSEVP |
| 5336 | sp|Q1B6B7|HRCA\_MYCSS | MGSADDRRFEVLRAIVADFVATKEPIGSKTLVERHNLGVSSATVRNDMAVLEAEGYITQPHTSSGRVPTEKGYREFVDRLDDVKPLSSAERRAILKFLETGVDLDDVLRRAVRLLAQLTRQVAIVQYPTLSTSSVRHLEVVALTPARLLLVVITDTGRVDQRIVELGDAIDEHELATLRDLLGQALEGKRLSAASVAVSDLATHLSGSPGMSHRLADAVGRSATVLVETLVEHTEERLLLGGTANLTRNTADFGGSLRSVLEALEEQVVVLRLLAAQQEAGKVTVRIGHETEAEQMAGTSVVTTAYGSSGKVYGGMGVVGPTRMDYPGTIANVAAVALYIGEVLGTR |
| 5337 | sp|Q2JRN9|HRCA\_SYNJA | MKLELTPRQRKILWATVRRYIATAEPVGSKTLAQSYNLGVSTATIRNDLATLEQVGLLFQPHTSAGRIPSDFGYRVYVNDLLSSANMDGIPNDAPQPEPHPALQQLLDQLNRELGDDLDSFLQRVAQLLAHLSGCIALITPPQGPVVAVHHVQLLSVGPGRVMVLVVTDSYQTHSALVSPPDWPDDRREDLEDELQLLSNFLTLKLRGKTFAELQDLSWLKLDEEFRAYSHWLQQLLRSVVQRYLRPSLGQVFSAGMTELMRQPEFSQAQRMQAVAQLLEEGSEQLQGMIGLYSTPGCLFTSEAALSAPSAREKASSSTADQDPSHNVPVIIYIGSENPLESLHHCTVIASVYRRRSAPLGTVTLLGPTRMAYERSIAAVQTVASHLTRALA |
| 5338 | sp|A5E8J0|HRCA\_BRASB | MAHHDPINLMTPPAGLAQLNERSREIFRQIVESYLATGEPVGSRNISRLIAVPLSPASVRNVMADLEQLGLIYAPHTSAGRLPTEAGLRFFVDALMQVGDMTEAERQSIQSQLASVGRAQSVEAALDEALTRLSGLTRAAAVVLTAKSNTRLKHIEFVRLEPERALVVLVGEDGQVENRVLALPPGVPSSALTEASNFLNARIRGRTLAEARLELETALAHDRAELDQLTQKVIAAGVASWSGGDSDDRQLIVRGHANLLEDLHALEDLERVRRLFDDLETKRGVVDLLGRAENADGVRIFIGSENKLFSLSGSSTIVSPYSDATGRIVGVLGVIGPTRLNYARVIPTVDYAARLVSRLLGG |
| 5339 | sp|Q2IHN8|HRCA\_ANADE | MATADELDRREREILRALVQDYIHTGEPVASQPLLSRHELEWSPATVRSVMADLEALGFLEKPHASSGRIPTERGYRLYVDTMLKVRPPSPADRDRIERLAQAAPDVSSLIEGTADLLHSLSHHAGVVTTPRPQADPVRQLEFVRLRENRVLVVFVSAAGIVTNKLVQLEFTMEPAELERAAAYLNEKLHARAEAAEPELAALRAAILGDMRADQSALHDLLQKALVLAEQSFAAAGVEKVVMEGESSFLDAPEFSDVQKARALLRGFAEKDRILRVLDRVLTAQEVQIFIGAESEFATVPDVSVVAAPYGRGDRVLGTLAVVGPTRMNYARVIPLVDLTARQISRALAALSEGG |
| 5340 | sp|B4U1A7|HRCA\_STREM | MITERQSNILNLIVDLFTQTHEPVGSKALQSVIASSSATIRNDMAKLEKLGLLEKAHTSSGRMPSAAGFKYFVEHSLNLGSIDEQDFYQLVKAFDFEAFKLEDVLLRASQMLSDMTGYTAAILDVEPARQRLTGFDIVQLSSHDALAVLTLDESKPLTVQFAIPKNFMNRDLLVLKGIVADRLLGKDVMTVHYKLRTEIPQIVQKYFTVTDNVLDLFDYIFVGLFRETIFVSGKVAALDYAGLVTYQFLDEEQRLALSIRQSLSEEEMATVQVADSSEPALANVTLLTYKFLIPYRGFGLLSLIGPVDMDYRRSVSLINVIGQLLAVKLRDYYRYLNSNHYEVH |
| 5341 | sp|B4UJT7|HRCA\_ANASK | MASADELDRREREILRALVQDYIHTGEPVASQPLLSRHELEWSPATVRSVMADLEALGFLEKPHASSGRIPTERGYRLFVDTMLKVRPPSVADRDRIERLAQAAPDVSSLIEGTADLLHSLSHHAGVVTTPRPQADPVRQLEFVRLRENRVLVVFVSEAGIVTNKLVQLEFAMEPAELERAAAYLNEKLHARADAAELAALRAAILTDMRADQSALHDLLQKALVLAEQSFAGTGVEKVVMEGESSFLDAPEFSDVQKARALLRGFAEKDRILRVLDRVLTAQEVQIFIGAESEFATVPDVSVVAAPYGRGDRVLGTLAVVGPTRMNYARVIPLVDLTARQISRALAALSEGG |
| 5342 | sp|A6LRN2|HRCA\_CLOB8 | MSIDDRKIRILQAIINDYIRTGDPVGSRTIAKNYNLGIGSATIRNEMADLEDMGYLEQPHASAGRIPSSKGYRLYVDQLMDNQMLTVEEDLRIKQYIIDSAMLEVDKIVKQTSALLSELTKLTCVIETPSVKRSFIKSIQLIKVDDHNLVSVFLTDTGVIKNHIMKLNNRVPEVETLTRINEVINNRLVNLSIQEINLEVINNLKKDLGAYEEIFNALLPILYETLNSADSTEVFMEGTTNIFNYPEYNDIDKAKEMLSLLNDKEALMELFNPQDNITVSIGDENYKPQARDCSIISAEYSFKDRPIGKIGLIGPRRINYSKVIMIMSEVIKELNNILSNPK |
| 5343 | sp|C0RGM6|HRCA\_BRUMB | MMRPPEHQLLSSLDQRSRDIFRLIVETYLNDGDPVGSRNLSRLLPHTLSPATIRNVMSDLEHLGLIYAPHISAGRLPTQIGLRFFVDAFLEVGDLPPEERSSIEAQVRAAGTSNSVESVLTEASQVLSGLSRGAGLVLTNKTDVALKHIEFVRLEPMRALAVLVMQNGDVENRVIDLPAGISTSQLIEASNFLNAHIHGHTLSEAKSELRKLSEETRRELDQLSQELVAKGLAVWSGAGADQPARLIVRGRANLLENVHAQEDIERLRHLFDDLETKDGMVQLLDLAEAGSGVRIFIGSENKLFSLSGSSLVVAPYRDSEQRVIGALGVIGPTRLNYARIVPMVDYTAQIVSRLLR |
| 5344 | sp|B8DUG2|HRCA\_BIFA0 | MSSTRRMQILRAVVEDYIRQQEPIGSGALAAKHHLGVSPATIRNDMAALEDEGYLTQPHTSAGRIPTEKGYRYFVNSLSTPIPLTAEQRESISSALSGSASLQDTLQRAARILSTITGQYAMVSAPSLSRSLMRHVELLPLAAHTLLLVTITETGRVVQRLVSTDTLPNTEQTQCICETINTHCRLLTFRQCAQSIRTLPTDSEGGFTPQLRDAIAAVFSDMENEERPNELFTSGAASLTHQHIDAASLAPLFDALEEQVVLMRLMYDLTGQPGQEGVGVAIGSETHTPGLLHASVVSSGYGQSSTPSANVEHEEYDTGTKPTMPIAVIGSIGPTHMNYAVTMAAVHAVSRYLTEFLRVGHNGWQE |
| 5345 | sp|P30218|HS30C\_XENLA | MFPLSLVQPSHSPLCPCSQPALTLWPATRLIFGHLEDDILSMRNDMERRMQRVNEACRLLSKDTEMRRITDQNRQSRESEGTSPNSGKDGKDHFELTLNVRDFSPHELTVKTQGRRVIVTGKHERKSDTEDGNYFHEYREWKREAELPESVNPEQVVCSLSKNGHLHIQAPRLALPPAPETPIPISMDTAPRDAQELPPDAQTSNAEGDQKVD |
| 5346 | sp|B3DRX0|HRCA\_BIFLD | MTQSRRMLVLRAVVEDYIRSQEPVGSTSLTRDHDLGVSSATIRNDMAALEDEGYLIQPHTSAGRVPTEKGYRYFVDRLATVVPLSEAQRRGINSFLSGSVSLKDALQRSARLLSEITGQVAVVASPSLAKATLRHVEMVPVAMTTLLAVVITDTGRVAQHGLTIASMPAVDEINRLSNTVNEQCDGLSLSKSAETVRSIAASAGYESVRGVADALADAFESMALDERANELYMSGTSHLAHSRSLADLAPLFDALEEQVVLMKLMSNLSEETNASGVGVAIGSEMHTPGLLHASVVSSGYGRSGAAGEPAGNDPVGEPETESETESQTNDTEPIAFVGSIGPTHMDYAATMAAVRAVARYLTAFLSEGRTQD |
| 5347 | sp|A0JX46|HRCA\_ARTS2 | MSEPRKLEVLRAIVEDYVHSREPVGSKALVERHHLGVSSATIRNDMAALEDEGLITAPHTSAGRIPTDKGYRLFVDQISAVKPLSQAERRAIQTLLEGSEDLDDVLERTVRLLSQLTNQVAVVQYPHLSRAMVRHIEFVLLAPRQVLIVLIADTGKVEQRVIDVGQELGDDALAGLRARFLKSLAGTPLSLLPQALPAVVAGCEPSRRHAAQALARGLDALASSSREERMVMAGTANLARSNVDFPLSIGPVLEALEEQVVMLRLLSDMAQDPRGVTVSIGRENPYDGLAEASVVATGYGPGSSAKVGVLGPTRMDYPTTMAAVRAVARYLSRILGP |
| 5348 | sp|P17066|HSP76\_HUMAN | MQAPRELAVGIDLGTTYSCVGVFQQGRVEILANDQGNRTTPSYVAFTDTERLVGDAAKSQAALNPHNTVFDAKRLIGRKFADTTVQSDMKHWPFRVVSEGGKPKVRVCYRGEDKTFYPEEISSMVLSKMKETAEAYLGQPVKHAVITVPAYFNDSQRQATKDAGAIAGLNVLRIINEPTAAAIAYGLDRRGAGERNVLIFDLGGGTFDVSVLSIDAGVFEVKATAGDTHLGGEDFDNRLVNHFMEEFRRKHGKDLSGNKRALRRLRTACERAKRTLSSSTQATLEIDSLFEGVDFYTSITRARFEELCSDLFRSTLEPVEKALRDAKLDKAQIHDVVLVGGSTRIPKVQKLLQDFFNGKELNKSINPDEAVAYGAAVQAAVLMGDKCEKVQDLLLLDVAPLSLGLETAGGVMTTLIQRNATIPTKQTQTFTTYSDNQPGVFIQVYEGERAMTKDNNLLGRFELSGIPPAPRGVPQIEVTFDIDANGILSVTATDRSTGKANKITITNDKGRLSKEEVERMVHEAEQYKAEDEAQRDRVAAKNSLEAHVFHVKGSLQEESLRDKIPEEDRRKMQDKCREVLAWLEHNQLAEKEEYEHQKRELEQICRPIFSRLYGGPGVPGGSSCGTQARQGDPSTGPIIEEVD |
| 5349 | sp|A1AHM2|IBPA\_ECOK1 | MRNFDLSPLYRSAIGFDRLFNHLENNQSQSNGGYPPYNVELVDENHYRIAIAVAGFAESELEITAQDNLLVVKGAHADEQKERTYLYQGIAERNFERKFQLAENIHVRGANLVNGLLYIDLERVIPEAKKPRRIEIN |
| 5350 | sp|O31288|IBP\_BUCTS | MSYHSFSLEPKYENTMLSQRFKEIDKLFSTLSGKKIISDSVPPYDILQLKENFYKLIVSVPGYLEKNLEISTQYDQLIIIGKKEITENTNEKKETVEKILHQEIYTGDFSLSFRLNERISVMSATLDQGLLTIYFEYQIPEKQKIQKIQINVK |
| 5351 | sp|B7M4H5|IBPB\_ECO8A | MRNFDLSPLMRQWIGFDKLANALQNAGESQSFPPYNIEKSDDNHYRITLALAGFRQEDLEIQLEGTRLSVKGTPEQPKEEKKWLHQGLMNQPFSLSFTLAENMEVSGATFVNGLLHIDLIRNEPEPIAAQRIAISERPALNS |
| 5352 | sp|B7LK29|IBPA\_ESCF3 | MRNFDLSPLYRSAIGFDRLFNHLENNQSQSNGGYPPYNVELVDENHYRIAIAVAGFAESELEITAQDNLLVVKGAHADEQKERTYLYQGIAERNFERKFQLAENIHVRGANLVNGLLYIDLERVIPEAKKPRRIEIN |
| 5353 | sp|Q8P6A0|CLPB\_XANCP | MRMDKLTSRFQQALADAQSLAVGRDHNIIEPVHVLAALLDQSGGSTRPLLSQSGVNVPALRERLGEALDTLPKVSGQEGNLSIGNDLNRLLNQTDKLAQQHGDAFIASEWFVLAAADDASPLGVALRAAGGDKKKIEAAIDKLRGGETVQSENAEEQRQALEKYTIDLTARAESGKLDPVIGRDEEIRRTIQVLQRRTKNNPVLIGEPGVGKTAIVEGLAQRIINGEVPEGLRGKRVLSLDMGALIAGAKFRGEFEERLKAVLSDLSKNEGQIILFIDELHTMVGAGKADGAMDAGNMLKPALARGELHCIGATTLDEYRKYIEKDAALERRFQKVFVGEPTVEDTIAILRGLKERYAVHHGVEITDPAIVAAATLSNRYITDRQLPDKAIDLMDEAASRIRMEIDSKPEELDRLERRLIQLKIQREMLKKEKDEASRQRLADLESDIDKLEREFSDLNEVWKSEKAALQGTTKIKEQIEHAKLELEAAQRRQDYAKMSEIQYGVLPQLEKQMLLANEVEHHDFKLVQDRVTAEEIAEVVSRWTGIPVNKMLEGERDKLLRMEDELHRRVVGQEEAIKVVSDAVRRSRAGLSDPNRPSGSFLFLGPTGVGKTELCKALADFLFDSTEAMIRIDMSEFMEKHSVSRLIGAPPGYVGYEEGGYLTEAVRRRPYSLILLDEVEKAHADVFNILLQVLDDGRLTDGQGRTVDFRNTVIVMTSNLGSHQIQELSGDGSAEAYTQMKAAVMGVVQAHFRPEFINRLDDIVVFHPLDKAQIKSIARIQLQGLEKRLAERGLKLDLDDPALELLGNVGFDPVYGARPLKRAIQSQVENPLAQQILSGQYTSGDTVRVRTEGGHLAFTKG |
| 5354 | sp|Q99VB5|CLPB\_STAAM | MDINKMTYAVQSALQQAVELSQQHKLQNIEIEAILSAALNESESLYKSILERANIEVDQLNKAYEDKLNTYASVEGDNIQYGQYISQQANQLITKAESYMKEYEDEYISMEHILRSAMDIDQTTKHYINNKVEVIKEIIKKVRGGNHVTSQNPEVNYEALAKYGRDLVEEVRQGKMDPVIGRDEEIRNTIRILSRKTKNNPVLIGEPGVGKTAIVEGLAQRIVKKDVPESLLDKTVFELDLSALVAGAKYRGEFEERLKAVLKEVKESDGRIILFIDEIHMLVGAGKTDGAMDAGNMLKPMLARGELHCIGATTLNEYREYIEKDSALERRFQKVAVSEPDVEDTISILRGLKERYEVYHGVRIQDRALVAAAELSDRYITDRFLPDKAIDLVDQACATIRTEMGSNPTELDQVNRRVMQLEIEESALKNESDNASKQRLQELQEELANEKEKQAALQSRVESEKEKIANLQEKRAQLDESRQALEDAQTNNNLEKAAELQYGTIPQLEKELRELEDNFQDEQGEDTDRMIREVVTDEEIGDIVSQWTGIPVSKLVETEREKLLHLSDILHKRVVGQDKAVDLVSDAVVRARAGIKDPNRPIGSFLFLGPTGVGKTELAKSLAASLFDSEKHMIRIDMSEYMEKHAVSRLIGAPPGYIGHDEGGQLTEAVRRNPYSVILLDEVEKAHTDVFNVLLQILDEGRLTDSKGRSVDFKNTIIIMTSNIGSQVLLENVKETGEITESTEKAVMTNLNAYFKPEILNRMDDIVLFKPLSIDDMSMIVDKILTQLNIRLLEQRISIEVSDDAKAWLGQEAYEPQYGARPLKRFVQRQIETPLARMMIKEGFPEGTTIKVNLNSDNNLTFNVEKIHE |
| 5355 | sp|Q9CI09|CLPE\_LACLA | MLCQNCNINEATIHLYTSVNGQKKQIDLCQNCYQIMKSGGQEALFGAGNASNGNSDEPFNPFNDIFSALHGQDFNGAASTQTPPTQTGGRGPRGPQNPRAKQPKGMLEEFGINITESARRGEIDPVIGRDEEIKRVIEILNRRTKNNPVLIGEPGVGKTAVVEGLAQKIVDGDVPQKLQNKEVIRLDVVSLVQGTGIRGQFEERMQKLMDEIRKRNDVIMFIDEIHEIVGAGSAGDGNMDAGNILKPALARGELQLVGATTLNEYRIIEKDAALERRMQPVKVDEPSVDETITILRGIQARYEDYHHVKYTDEAIEAAAHLSNRYIQDRFLPDKAIDLLDESGSKKNLTLKFVDPEDINRRIADAETKKNEATQAEDFEKAAHFRDQITKLRELQNHEVSDDEIPVITEKDIEQIVEQKTHIPVGDLKEKEQTQLINLADDLKAHVIGQDEAVDKIAKAIRRSRVGLGKPNRPIGSFLFVGPTGVGKTELAKQLAKELFGSSESMIRFDMSEYMEKHSVAKLIGAPPGYVGYEEAGQLTERVRRNPYSLILLDEIEKAHPDVMHMFLQILEDGRLTDAQGRTVSFKDSLIIMTSNAGTGKVEASVGFGAAREGRTKSVLGQLGDFFSPEFMNRFDGIIEFSALSKENLLKIVDLMLDEVNEQIGRNDIHLSVTQAAKEKLVDLGYNPAMGARPLRRTIQENIEDSIADFYIEHPEYKELVADLIDDKIVISNQAQETAETTDEEVPAE |
| 5356 | sp|Q929G7|CLPB\_LISIN | MDLQKFTQQVQQTIADAQNLAIASEHQEIDVIHVFKVLLTESDFAKRAYDVAEVNVEALQKVVDESLRKIPVVSGSGVNYGQAMSQALFQLMRDAEKEQKQLDDDFVSTEHLILAVMDQKSNPITVELKKQNKSKKQINEAILKIRGGKKVTSQNAEENYEALTKYGRDLVAEVRSGKLDPVIGRDAEIRNVIRILSRKTKNNPVLIGEPGVGKTAIVEGLAQRIVRKDVPEGLKDKTIISLDIGSLIAGAKYRGEFEERLKAVLQEVKQSDGQILLFIDEIHTIVGAGKTDGAMDAGNMLKPMLARGELHCIGATTLDEYRQYIEKDAALERRFQKVLVPEPTVEDTVSILRGLKERFEIHHGVNIHDNALVAAASLSNRYITDRFLPDKAIDLVDEACATIRVEIDSMPSELDEVTRKVMQLEIEEAALKEEKDPASERRLEMLQRELADYKEEANKMKSKWESEKSEISKIREVREQIDHLRHELEEAENNYDLNKAAELRHGKIPAVEKELLALETENREKTAQEDRILQEEVTENEIAEIVGRWTGIPVTKLVEGEREKLLKLADVLHQKVIGQDDAVQLVSDAVLRARAGIKDPKRPIGSFIFLGPTGVGKTELAKALAYNMFDSEDHMIRIDMSEYMEKHSVSRLVGAPPGYVGYEEGGQLTEAVRRNPYSIVLLDEIEKAHPDVFNILLQVLDDGRITDSQGRLIDFKNTVIIMTSNIGSNLLLERTEEGEISPELESDVMQILQSEFKPEFLNRVDDIILFKPLTLADIKGIVEKLVEELQIRLADQEITITISDNAKAFIAEEAYDPVYGARPLKRYIVRHVETPLAREIVSGKIMPHSSVEIDLQDKEFTFKVTE |
| 5357 | sp|P0A9Y1|CSPA\_ECO57 | MSGKMTGIVKWFNADKGFGFITPDDGSKDVFVHFSAIQNDGYKSLDEGQKVSFTIESGAKGPAAGNVTSL |
| 5358 | sp|Q8YJ91|CLPB\_BRUME | MNIEKYTERVRGFIQSAQTFALSSGNQQFTPEHILKVLIDDDEGLAASLVERAGGRVGDVRMGLQSALEKLPKVSGGNDQLYLSQPLAKVFSLAEELASKAGDSFVTVERLLTALAMEKSAKTSEILSAAGVTPTALNRVINDMRKGRTADSASAESNYDALKKYARDLTEDARAGKLDPVIGRDEEIRRTIQVLSRRTKNNPVLIGEPGVGKTAIAEGLALRIVNGDVPESLKDKQLMALDMGALIAGAKYRGEFEERLKAVLSEVQTAAGQIILFIDEMHTLVGAGKTDGAMDASNLLKPALARGELHCVGATTLEEYRKYVEKDAALARRFQPVFVDEPTVEDTISILRGLKEKYEQHHKVRVSDSALVAAAMLSNRYITDRFLPDKAIDLVDEAASRLRMQVDSKPEELDEIDRRIMQLKIEREALKVETDAASKDRLQRIEKELSDLEEESAELTAKWQAEKQKLGLAADLKRQLEEARNALAIAQRNGEFQKAGELAYGTIPQLEKQLADAESQENKGSLLEETVTPDHVAQVISRWTGIPVDRMLEGEREKLLRMEDEIGKRVVGQGEAVQAISKAVRRARAGLQDPNRPIGSFIFLGPTGVGKTELTKALASFLFQDDTAMVRIDMSEFMEKHSVSRLIGAPPGYVGYEEGGVLTEAVRRRPYQVILFDEIEKAHPDVFNVLLQVLDDGRLTDGQGHTVDFRNTVIIMTSNLGAEYLVNLGENDDVETVRDDVMGVVRASFRPEFLNRVDEIILFHRLRREDMGAIVDIQMQRLQYLLSDRKITLQLEDDAREWLANKGYDPAYGARPLKRVIQKEVQDPLAERILLGDILDGSLVKITAGSDRLNFRPISGAFSAAEPEREDEKA |
| 5359 | sp|Q5DWG2|CRJ34\_CRYJA | MARAILWVLLTVMAVSLLLHAGVEGVNFDIENQCPYTVWAAGTPFGGGIELKRGQSWRVNVPGGARGRFWGRTGCSFDGNGRGRCNTGDCGGLLNCQGSGGVPSTLLEYALNQYQNLDFYDISLVDGFNLRMTVVLSNTNCKRIACNSDINSKCPGELKVVDGCRSACAAFNTPAYCCTGSFLDNCPPTGYSQFFKRECPLAYSYAKDDPTSTFTCPGGSDYKIIFCGNGDSQSNSTSTSSGSLYAVE |
| 5360 | sp|Q4W6C7|CRJ37\_CRYJA | MATVSDLALLLVAGLVAISLHMQEAGAVKFELKNQCEYTVWAAGLPGGGQQLDQGQTWPVEVPAGTKGARFWGRTGCSFDASGRGTCKTGDCNSQLSCQVSGGVPTTLAEYTLNGDGNKDFYDVSLVDGFNVPLSINPTNSQCFAPACKADVNAACPAQLKVDGGCNSACTVFQTDEYCCRGTHVDNCSPSSYSMIFKNQCPQAYSYAKDDSSSTFTCPSGTTDYSIVFCP |
| 5361 | sp|P81622|CSPS\_STRTR | KNGTVKWFNAEKGFGFITSED |
| 5362 | sp|F4JCB2|CPL5\_ARATH | MFVAKNLSPERESKRQKKEPEIMEPSFPLLSPNNCGHWYIRYGFCIVCKSTVDKTIEGRVFDGLHLSSEALALTKRLITKFSCLNMKKLHLVLDLDLTLIHSVRVPCLSEAEKYLIEEAGSTTREDLWKMKVRGDPISITIEHLVKLRPFLCEFLKEANEMFTMYVYTKGTRPYAEAILKLIDPKKLYFGHRVITRNESPHTKTLDMVLADERGVVIVDDTRKAWPNNKSNLVLIGRYNYFRSQSRVLKPHSEEKTDESENNGGLANVLKLLKGIHHKFFKVEEEVESQDVRLTMSVVENFSSEPKAKRRKIEPTINESSSSLSSSSSCGHWYICHGICIGCKSTVKKSQGRAFDYIFDGLQLSHEAVALTKCFTTKLSCLNEKKLHLVLDLDHTLLHTVMVPSLSQAEKYLIEEAGSATRDDLWKIKAVGDPMEFLTKLRPFLRDFLKEANEFFTMYVYTKGSRVYAKQVLELIDPKKLYFGDRVITKTESPHMKTLDFVLAEERGVVIVDDTRNVWPDHKSNLVDISKYSYFRLKGQDSMPYSEEKTDESESEGGLANVLKLLKEVHQRFFRVEEELESKDVRSLLQEIDFELNVESVE |
| 5363 | sp|Q6GJE7|CTSR\_STAAR | MHNMSDIIEQYIKRLFEESNEDVVEIQRANIAQRFDCVPSQLNYVIKTRFTNEHGYEIESKRGGGGYIRITKIENKDATGYINHLLQLIGPSISQQQAYYIIDGLLDKMLINEREAKMIQAVIDRETLSMDMVSRDIIRANILKRLLPVINYY |
| 5364 | sp|Q7A1R4|CTSR\_STAAW | MHNMSDIIEQYIKRLFEESNEDVVEIQRANIAQRFDCVPSQLNYVIKTRFTNEHGYEIESKRGGGGYIRITKIENKDATGYINHLLQLIGPSISQQQAYYIIDGLLDKMLINEREAKMIQAVIDRETLSMDMVSRDIIRANILKRLLPVINYY |
| 5365 | sp|P22697|CYS3\_NEUCR | MSSADFNFGDFTTTYTSPTIPAYPDTLGQLQPIQPNPQAAYPPVSQHHASHHVQHPHQPGYVLSNPPQLSGNKRKASDAMSVPPTPGARVMSFEEASRLAAEEDKRKRNTAASARFRIKKKQREQALEKSAKEMSEKVTQLEGRIQALETENKWLKGLVTEKHGSKEDILKLLREFSAHAAKVSKDAAAAAADKAEAAADKADAERAREESSFCVSTSSPSSDESVDTDNKKRRKD |
| 5366 | sp|P89113|DDR2\_YEAST | MKVSQVFISAISVFGLATSVNAQNASNTTSNAAPALHAQNGQLLNAGVVGAAVGGALAFLI |
| 5367 | sp|Q2YT48|DNAJ\_STAAB | MAKRDYYEVLGISKDASKDEIKKAYRKLSKKYHPDINKEEGADEKFKEISEAYEVLSDDNKRASYDQFGHDGPQGFGGQGFNGSDFGGFSGFGGGGFEDIFSSFFGGGRQRDPNASQKGDDLQYTMTLTFEEAVFGTTKEISIRKDVTCETCHGDGAKPGTSKKTCSYCNGAGHVAVEQNTILGRVRTEQVCPKCNGSGQEFEEACPTCHGKGTENKTVKLEVKVPEGVDNEQQIRLAGEGSPGVNGGPAGDLYVVFRVKPSETFKRDGDDIYYKLNVSFPQAALGDEIKIPTLNNEVMLTIPAGTQTGKQFRLKEKGIKNVHGYGYGDLYVDIKVVTPTKLTDRQKELMKEFAQLNGEEINEQPSNFKDRAKRFFKGE |
| 5368 | sp|Q4A8U5|DNAK\_MYCH7 | MAKEIILGIDLGTTNSVVAIIENQKPVVLENPNGKRTTPSVVAFKNNEEIVGDAAKRQLETNPEAIASIKRLMGTDKTVRANERDYKPEEISAKILAYLKEYAEKKIGHKVTKAVITVPAYFDNAQREATKNAGKIAGLQVERIINEPTAAALAFGLDKTEKEMKVLVYDLGGGTFDVSVLELSGGTFEVLSTSGDNHLGGDDWDNEIVNWLVKKIKEEYDFDPKSDKMALTRLKEEAEKTKINLSNQSVSTVSLPFLGMGKNGPINVELELKRSEFEKMTAHLIDRTRKPIVDALKQAKIEASDLDEVLLVGGSTRMPAVQSMIEHTLNKKPNRSINPDEVVAIGAAIQGGVLAGEISDVLLLDVTPLTLGIETLGGIATPLIPRNTTIPVTKSQIFSTAEDNQTEVTISVVQGERQLAADNKMLGRFNLSGIEAAPRGLPQIEVSFSIDVNGITTVSAKDKKTGKEQTITIKNTSTLSEEEINKMIQEAEENREADALKKDKIETTVRAEGLINQLEKSITDQGEKIDPKQKELLEKQIQELKDLLKEEKTDELKLKLDQIEAAAQSFAQATAQQANTSESDPKADDSNTIDAEIKQD |
| 5369 | sp|A5WI20|DNAK\_PSYWF | MAKTIGIDLGTTNSCVAVMEGDKVKVIENAEGTRTTPSIIAYKDGEILVGQSAKRQAVTNPNNTLYAIKRLIGRRFDDKVVQKDIGMVPYKIVKADNGDAWVEVNDKKMAPPQISAEILQKMKKTAEDYLGEKVTDAVVTVPAYFNDSQRQATKDAGKIAGLNVKRIINEPTAAALAYGMDKKKGDSTVAVYDLGGGTFDVSIIEIADVDGEQQFEVLSTNGDTFLGGEDFDLALIDYLVEEFKKEQNFNLKGDPLAMQRLKEAAEKAKIELSSAQSTEVNLPYITADASGPKHLVVTISRSKLEALTEALVKRTIDPCKVALEDAGLKASDIDDVILVGGQTRMPLVQKTVEEFFGQEPRKDVNPDEAVAVGAAIQGAVLSGDKTDVLLLDVTPLTLGIETMGGVMTGIIEKNTMIPTKKSQVFSTAEDNQPAVTIKVFQGERKVAAQNKLLGEFNLTDIPPAPRGMPQIEVTFDINADGIMNISAKDKGTGKEQSIQIKADSGLSDEEIEQMVRDAEANAAEDEKFAALAQVRNEADGRIHAIQKALKDAEDKVTEEEKSSVETAISDLELAAKEDDHDDIKAKLEALDNAFLPISQKIYAAGQGAEGAAPQADATEANAADDDVVDAEFTEVNEDDKK |
| 5370 | sp|B5FHA6|DNAK\_SALDC | MGKIIGIDLGTTNSCVAIMDGTQARVLENAEGDRTTPSIIAYTQDGETLVGQPAKRQAVTNPQNTLFAIKRLIGRRFQDEEVQRDVSIMPYKIIGADNGDAWLDVKGQKMAPPQISAEVLKKMKKTAEDYLGEPVTEAVITVPAYFNDAQRQATKDAGRIAGLEVKRIINEPTAAALAYGLDKEVGNRTIAVYDLGGGTFDISIIEIDEVDGEKTFEVLATNGDTHLGGEDFDTRLINYLVDEFKKDQGIDLRNDPLAMQRLKEAAEKAKIELSSAQQTDVNLPYITADATGPKHMNIKVTRAKLESLVEDLVNRSIEPLKVALQDAGLSVSDINDVILVGGQTRMPMVQKKVAEFFGKEPRKDVNPDEAVAIGAAVQGGVLTGDVKDVLLLDVTPLSLGIETMGGVMTPLITKNTTIPTKHSQVFSTAEDNQSAVTIHVLQGERKRASDNKSLGQFNLDGINPAPRGMPQIEVTFDIDADGILHVSAKDKNSGKEQKITIKASSGLNEEEIQKMVRDAEANAESDRKFEELVQTRNQGDHLLHSTRKQVEEAGDKLPADDKTAIESALNALETALKGEDKAAIEAKMQELAQVSQKLMEIAQQQHAQQQAGSADASANNAKDDDVVDAEFEEVKDKK |
| 5371 | sp|Q52701|DNAK\_RHOCA | MAKVIGIDLGTTNSCVAIMDGSQPRVIENSEGARTTPSIVAYTDNERLVGQPAKRQAVTNPTNTVFAVKRLIGRRTTDAEVEKDKKLVPYNIVDGGNGDAWVEVRGEKFSPAQVSAVILQKMKETAESYLGETVTQAVITVPAYFNDAQRQATKDAGKIAGLEVLRIINEPTAAALAYGLDKKDSKTIAVYDLGGGTFDISVLEIDDGLFEVKSTNGDTFLGGEDFDMRIVNYLADEFKKEHGVDLTKDKMALQRLKEAAEKAKIELSSASQTEINQPFISMNAATGVPLHMVMKLTRAKLESLVDDLIKASLKPCAAALKDAGVSKDEIDEVVLVGGMTRMPRVVEEVTKFFGKEPHKGVNPDEVVALGAAIQAGVLQGDVKDVVLLDVTPLSLGIETLGGVFTRLIDRNTTIPTKKSQIFSTAEDNQNAVTIRVFQGEREMAADNKMLGMFNLENIPPAPRGVPQIEVTFDIDANGIVSVKAKDKGTGKEQQITIQASGGLSDDDIEKMIKDAEANAEADKKRKELVEAKNTGESLLHSTRKSLEEHGDKVDGSTVEMIELACNALEESLKSEDPGKIKGAVQNLTDAAMKLGEAIYKAQASEAGPASDDEDGPRSVDDDIVDADFEDMGENKRK |
| 5372 | sp|Q114R3|DNAJ\_TRIEI | MARDYYEILGVSRSADKEELKRAYRRLARKYHPDVNKEPGSEERFKEINRAYEILSDPEMKARFDRFGEAGVSGGAASGFSTDFSDSFADIFESFFSGFGGAGTQGRRRTGPVRGDDLRLDLNLEFIEAIFGGDKELTIKHLETCGTCNGSGAKPGTKPQTCSTCGGTGQVRRATRTPFSSFTQVSVCPSCNGSGQIIEEKCVDCGGRGQKEATKKIKITIPGGVDNGTRLRVSNEGDAGRMGGPPGDLYVFLSVKNHPEFQRDGINIISQIKISYLQAILGCCLEINTVDGKTELTIPSGTQPNAILTLEDKGVPRLGNSVSRGAHLITIEIDIPTKITPEEKELLEKLAKIKGERTGKGGIEGFLGSWFQQK |
| 5373 | sp|Q5NPS5|DNAJ\_ZYMMO | MSELDYYSLLEVERTADDKTIKTSYRRLAMRYHPDRNPGDSDAEERFKAISEAYDCLKDPQKRAAYDRYGKDAFQGGGGFGGFGGGAQDFGGFSDIFESVFGEFMGGRGQARSSVQRGADLRYDLKISLEEAFKGKTVDIEIDVASVCDACHGSGAKAGSGRKTCDTCHGSGRIRVQQGFFVVEQSCPVCQGKGEVISDPCPECHGEGRCEKHKTLSVNIPAGVDDGTRIRLSGEGEAGVHGGPAGDLYIFIHVTPHQVFQRESYNLFAHVPISFTKAALGGSIHVPSLDGEQYEISIPAGIQSGKQLKRRGAGMPVLNGRGRGDLIIQIDVETPTRLTAKQRELLEQFRETETGEECPKSSGFFSKLKTILTGE |
| 5374 | sp|Q824B2|DNAK\_CHLCV | MSEQKKSSKIIGIDLGTTNSCVSVMEGGQAKVITSSEGTRTTPSIVAFKGNETLVGIPAKRQAVTNPEKTLASTKRFIGRKHSEVESEIKTVPYKVASGSNGDVVFLVDGKQYTPEEIGAQVLIKMKETAEAYLGEPVTEAVITVPAYFNDSQRASTKDAGRIAGLDVKRIIPEPTAAALAYGIDKAGDKKIAVFDLGGGTFDISILEIGDGVFEVLSTNGDTHLGGDDFDEVIIKWMIEEFKKQEGIDLSKDNMALQRLKDAAEKAKIELSGVSSTEINQPFITMDASGPKHLTLTLTRAHFEKLASTLLERTKAPCQKALADAKLSASDIDDVLLVGGMSRMPAVQEVVKSIFGKEPNKGVNPDEVVAIGAAIQGGVLGGEVKDVLLLDVIPLSLGIETLGGVMTPLVERNTTIPTQKKQIFSTAADNQPAVTIVVLQGERPMAKDNKEIGRFDLTDIPPAPRGHPQIEVTFDIDANGILHVSAKDAASGREQKIRIEASSGLKEDEIQRMINDAEKHKEEDKKRREASDARNEADSMIFRAEKAISDYKDNIPESLVKEIEERIEKVRTVLKEEAPVEKIKDASEELSRHMQKIGEAMQSQSASAAASSAANAQGGPNINTEDLKKHSFSTKPPAGNSASSNSNNENIEEADVEIVDKPND |
| 5375 | sp|Q4A658|DNAK\_MYCS5 | MAKEIVLGIDLGTTNSVVSIVEGKNPTVLENPNGKRTTPSVVAFKNGEIIVGDAAKRQVETNPDTIISIKRLMGTNKTVKANNKEYKPEEISAMILSYMKDYAEKKLGQKVSKAVITVPAYFDNAEREATKNAGRIAGLEVLRIINEPTAAALAFGLDKNKAMKVLVYDLGGGTFDVSVLDLEDGTFEVLSTSGDNHLGGDDWDNEIVKWLTKEIKTKYSYDVSKDKYALARLKENAEKAKIDLSNQSVVQINIPFLAMSANGPINVELSLKRSEFEAMTSHLLDRTRKPIEDALKEAKLSANDIHEVLLVGGSTRMPAVQDMVKRTLGKEPNRSINPDEVVSIGAAIQGGVLAGHIDDILLLDVTPLTLGIETLGGVATPLIPRNTTIPATKSQVFSTAADNQTEVTISVIQGERQMASDNKMLGRFNLTGIEAAPRGVPQIEVTFSIDVNGITKVSAKDMKTQKEQTITIENSSKLSEEEIQKFIKDAEANKEADAKRKEEAETIVRAESLIDQVKKALEAQGDKADAKTKEESDKLIKELQDLIDKKDIPTLKAKLEEVENMMKNFANFAQQANATKDQSSKDQEEVATVVEE |
| 5376 | sp|P43736|DNAK\_HAEIN | MGKIIGIDLGTTNSCVAVMDGDKARVIENAEGARTTPSIIAYTDNETLVGQPAKRQAITNPKNTLFAIKRLIGRRFESEEVQRDIKIMPFEITRADNGDAWVNVKGDKLAPPQISAEVLKKMKKTAEDFLGESVTEAVITVPAYFNDAQRQATIDAGKIAGLDVKRIINEPTAAALAFGLGSSKENQVIAVYDLGGGTFDISIIEIDNFDGEQTFEVLATGGNTHLGGEDFDNRVIDYIIDEFKKEQNIDLRNDAMALQRVKEAAEKAKIELSSAQSTEVNLPYITADATGPKHLALNITRAKLEALVEDLVASSIESLKAVLKDADKGVSEIHDIILVGGQTRMPLVQQKVAEFFGKEARKDVNPDEAVAIGAAVQGGVLKGDVKDVLLLDVTPLSLGIETMGGVMTTLIEKNTTIPTKKSQVFSTAEDNQSAVTIHVLQGERKRAADNKSLGQFNLEGINPAPRGMPQIEVTFDIDANGVINVSAKDKNTGKEQQIRIQASSGLSDEEIQQMVRDAEANADADRKFEEVVQARNQADGIAHATRKQIAEAGDALSVADKEKIEAAVAELETAAKGEDKAEIEAKIEAVIKASEPLMQAVQAKAQQAGGEQPQQSSAKDDGVVDAEFEEVKDNK |
| 5377 | sp|Q038N5|DNAJ\_LACP3 | MADQKDYYETLGVSRDADDDTIRKAFRKLSKKYHPDLNHAPGAEQKFKDINEAYQVLSDPQKRAAYDQYGSADGPQGFGGAGAGQGGFSDFGGGQGGFGGFDDIFSQFFGGAGGGAQANPSAPRQGADLQYRMDLTFEEAIFGKDTKISYDREAVCHTCNGSGAKPGTSPVTCHKCHGSGYIQVQRNTAFGAMMTRQVCDVCGGTGKEIKEKCPTCHGTGHEQERHTIDVKVPAGVEDGQQMRLQQAGEAGTNGGPYGDLYIVFRVAPSKKYQRDGSEIYLTIPLSFAQAALGDEIKVDTVHGAVELKIPAGTQSQTKFRLRGKGAPRLRGNGTGDQIVTVEVQTPKHLNEKQKSALMQFAAASGEDVTPHNGTLFDRVKEAFKGGK |
| 5378 | sp|Q49Y22|DNAK\_STAS1 | MSKVIGIDLGTTNSCIAILEGDEPKVIQNPEGARTTPSVVAFKNDETQVGEVAKRQAITNPNTIQSIKRHMGTDYKVDVDGKSYTPQEISAMVLQNLKSTAEDYLGESVDKAVITVPAYFNDSERQATKDAGKIAGLEVERIINEPTAAALAYGLDKTEQDQKVLVFDLGGGTFDVSILELGDGVFEVLSTAGDNKLGGDDFDQVIIDHLVAEFKKENSVDLSKDKMALQRLKDAAEKAKKDLSGVSQTQISLPFISAGENGPLHLELTLTRSKFEELADSLIRRTMEPTRQAMKDAGLSSSDIDEVILVGGSTRIPAVQEAVKKEVGKDPHKGVNPDEVVAMGAAIQGGVITGDVKDVVLLDVTPLSLGIEIMGGRMNTLIERNTTIPTSKSQVYSTAADNQPAVDIHVLQGERPMAADNKTLGRFQLTDIPAAPRGVPQIEVTFDIDKNGIVNVTAKDLGTNKEQNITIQSSSALSDDEIDRMVKDAEENAEADKKRREESDLRNEADSLVFQVEKTITDLGENISEEDKQNAEDKKEALKSALEGEDIDDIKAKKEDLEKVVQDLSTKVYEQAAQAQQQAQGEDANASQDSNVEDADFKEVKDDDNQDNQK |
| 5379 | sp|Q5BCG1|DPNP\_EMENI | MSYERERYIAELAVQRATILTQKVFNEKAKGTVSKDDKSPVTIGDFGAQALIIQAIRKNFPNDEIVAEEEASTLREDKALSAEIWRLVKDIKLEDAESNELLGGSLPSEEAMLDIIDEGKSAGGPKGRIWALDPIDGTKGFLRGGQYAVCLGLLEDGDVKVGAIGCPNLPVDDAATISSSIGVDQNSGAGNGVLFSAIKGAGSVSRPLTSGARAESKSISMRPVPDIAQAVFCEGVEAGHSAQGDNAAVAQLLGITSPSVRLDSQAKYCSIARGAGDIYLRLPVKKDYQEKIWDHAAGDLIVREAGGQVTDIYGQTLDFSKGRTLAANKGVVAAPKAIQDEVISAVKKVLKL |
| 5380 | sp|Q10SY2|EL2\_ORYSJ | MSASPEFYRPSPPAFSPSCAAGTSTTEVDEYSCCRTPTPGIREPATCPPAPRKPRPVACRKLLFDPAQQQGKGKAISLRLDELERLFRPITNNANLHLQTNKPTHT |
| 5381 | sp|F4IF36|FGT1\_ARATH | MTQSPVQPPPPLPAQPHSAAGGVIRGDVQVRCAGCRVILRVKTGVVEFSCPTCQLPQMLPPELLSRARPQFPQSPQQPPQPIQTLPPPIQQQLKPLNLPRPPVPAHGIDPTKMQLPCANCQAILNVPHGLTRFSCPQCHVELAVDVSKLNRSLTASQSHSNPPTPAAPTVPPPPPPEEVNEEAIEVEREEDEGGTAGETFMDYRPPKLSIGPPHPDPIVETSSLSAVQPPEPTYDLKIKEELERSKALSCLQIETLVYACQRHLQHLADGTRAGFFVGDGAGVGKGRTIAGLIWENWKHGRRKALWISIGSDLKYDARRDLDDVGATCVGVNPLNKLPYSKLDSKNVGIKEGVVFLTYNSLIASSEKGRSRLQQLVQWCGPEFDGLLIFDECHKAKNLVPEAGSQPTRIGQAVVDIQDKIPQARVIYCSATGASEPRNMGYMVRLGLWGAGTSFSDFNKFLGALDKGGTGALELVAMDMKARGMYVCRTLSYKGAEFEIVEARLEAGMEAMYNKSAEFWAELRIELLSASAFLPNEKPNSSQLWRLYWSSHQRFFRHLCMSAKVPVTVRLAKKALSTNKCVVIGLQSTGEARTEEAVNKYGLELDDFVSGPRELLLKFVEENYPLPEQPEPLSEDDSVKELQRKRHSASPGVSIRGRVRKMAKWKPDSDNESDLESEADSADDSNDSDDEFQICQICSGEDERKKLLHCSECDKLFHPDCVVPPVIDLPSEAWICFSCKEKTEEYIQARRLYIAELQKRYEAALERKSKIIEIIRSLNLPNNPLDDIVDQLGGPEKVAEMTGRRGMLVRASNGKGVTYQARNTKDITMEMVNMHEKQLFMDGKKLVAIISEAGSAGVSLQADRRAVNQKRRVHLTLELPWSADRAIQQFGRTHRSNQTSAPEYRLLFTNLGGERRFASIVAKRLETLGALTQGDRRAGPSGPSLSAYNYDSNFGKKSLMVMYRGIMEQEKLPVLPPGCSIDEPETVKEFLTKARAALVAVGIVRDSVLANGKDVGRFSGRIIDSDMHDVGRFLNRLLGLPPDIQNRLFELFTSILDVLVHNARIEGSFDSGIVDMKANSVELLSTPKTVHVDQMSGASTMLFTFTLDRGVTWESASSMLEGKRRDGLGSANDGFFESKREWLGRRHFILAFESAASGLFKIVRPAVGESIREMSLSELKTKYRKLSSLEKARTGWEDEYEVSSKQCMHGPKCKLGEYCTVGRRIQEVNVVGGLILPIWGTIEKALSKQARHSHKRIRVIRIETTTDNQRIVGLSIPNAAVETVLQDLAWVQEIDD |
| 5382 | sp|Q044B0|GRPE\_LACGA | MSKEEFPHEKDLKDEVTPDKAPKKDPKAASKEEVKEDPAKDYEKEIAELSAKNKDLEDKYLRSEAEIQNMQARYAKERAQLIKYESQSLAKEVLPAMDNLERALAVKADDEAAKQLQKGVQMTLDSLVKSMKDQGITEIKAEGETFDPALHQAVQTVAAENDDQKDHVVKVLQKGYQYKDRTLRPAMVVVAQ |
| 5383 | sp|Q8KML7|GRPE\_LACSN | MSKKKAEDKQPIIKDEAVEEPKSDSKVNALSAKIAELQQQLDDSQNDYLRAQAEIQNMQKRSQKEQSALAKYGAQRLAKEVVPVMDDLKRALQVQVDNDSGQQLKTGIEMVYKHLEKALNDNDIKEIDADGVAFDPELHQAVQTVPADDDHPADTVVQVLQSGYKLADRVLRPAMVVVAQ |
| 5384 | sp|Q66DA8|GRPE\_YERPS | MSSKEQKTPNEQVSEEMENTAEQQVEATQETGECVDPRVAELEVQLSDALQRERESLLRAKAEVENIRRRTELDVEKAHKFALERFSSELLPVIDNLERALDTADKTNTELTSMIEGVELTLKSLLDAVGKFGIEVVGETHVPFNPEVHQAMTMLESADHEPNHVMMVMQKGYTLNGRLLRPAMVAVSKAKS |
| 5385 | sp|Q87RX5|GRPE\_VIBPA | MSNEENKVTEEELDQIIEEAEKVEAAAQEAEAELEEIGDEKDAKIAQLEAALLSSETKVKDQQDAVLRAKAEVENMRRRTEQEIDKARKYALNKFAEELLPVIDNLERAIQAADTENEVIKPILEGVELTHKTFVDVVAKFGLKEINPEGETFNPEFHQAMSIQESPDHESNTVMFVMQKGYELNGRVIRPAMVMVAK |
| 5386 | sp|Q7UM95|GRPE\_RHOBA | MNEQPNEELQSEDEQFDPQETVSFEGETAANDEAFAEAGEETRDEEMTRLRGEVEEASKRVLQAQAEAENFRKRLRRDTEAQLKFAGMPLVTDILQVRDNLLRAIEAATTAGDGESAAGLVEGVSMVRKQLDDVLAKHAIKEIPAEGELFDPNFHEAISQMPHPEIASGMVAHVATPGFQMHDRVVRPAQVVVSTGDGSA |
| 5387 | sp|O27350|GRPE\_METTH | MCEDKKTDSRSQQECQKELEELRERLKDLENEIKKKEEEVREYTSHLQRLQADFDNYKKQMEKQELEIIKNANERLILKLLDVYEDLERAIENQDSSMDGLEVIYRKFRDTLTKEGLSEIPAEGEKFDPFLHEAVMVEDHDGYEDGIIIEELSRGYRLNDRIIKHSIVKVCKKS |
| 5388 | sp|Q5P7B8|HFQ\_AROAE | MSNKGQLLQDPFLNTLRREHVPVAIYLVNGIKLQGQIESFDQYVVLLKNTVTQMVYKHAISTVVPARPVNIQQQDSGEGNS |
| 5389 | sp|Q0BT31|HFQ\_GRABC | MASEKSQNVQDVFLNHVRKSKTPVTVFLVNGVKLQGIITWFDNFSVLLRRDGHTQLVYKHAISTVMPGAPIQLFDATKPEGDLGRDTAAYSDE |
| 5390 | sp|Q2SWD9|HFQ\_BURTA | MSNKGQLLQDPFLNALRKEHVPVSIYLVNGIKLQGNIESFDQYVVLLRNTVTQMVYKHAISTVVPARPVNFHPDAEAAS |
| 5391 | sp|Q8RA69|HFQ\_CALS4 | MASSKAAINLQDIFLNQVRKEHVPVTVYLINGFQLKGTVKGFDNFTVVLESESKQQLLIYKHAISTISPQKPVIFSGSEKDDKKEE |
| 5392 | sp|C0RJ83|HFQ\_BRUMB | MAERSQNLQDLFLNSVRKQKISLTIFLINGVKLTGIVTSFDNFCVLLRRDGHSQLVYKHAISTIMPSQPVQMFEGEEA |
| 5393 | sp|C3KX32|HFQ\_CLOB6 | MTKVVNNLQDIFLNGARKNRIPVTIYLTNGFQLKGFVKGFDNFTVILDSDGKQMMIYKHAISTINPAKPLLFVQNPNGDDYKDKE |
| 5394 | sp|P61184|HTPG\_BDEBA | MAKQVQNFNAEIKQLLDIVIHSLYSHKEIFLRELLSNASDAIDKLKFNSLTHPSLLPENWQPAIRLEPNSETKTLKIIDNGIGMTQEEVVEFIGTIARSGAKAFMQMNAEMKTKPELIGQFGVGFYSAFMVADRVTLHTQKAGSNDGTVWESMGDGTYSLDSVPRPEGTGTTITLHMKDFKEEDEVQNFTDKWVLKSLVKKYSDFIAHPIKMMGETEEETLNSQKALWLKSPSEVTKEEYKEFYQHLTHDWNEPLRTVHYRAEGTMEFNALLYVPGKKPWNYNMRDMEYGLSLYIKRVFIMADCKDLLPPYLRFVKGLVDSSDLSLNVSRELLQQDRQVTQIRKNVTNKALSTLKDLLTKERSAYEDFWTEFGATLKEGLPSDAANKEKLQDLLLFHSTSSDKMTTMDEYVARMKETQKDIYYITGDSLSQVSNSPYLEKLKEKGFEVLLLVDPVDEWVVDALSEFKGKKLQSIMREGLDLDTAEEKQQKEQEKKQAEVTLKPVLESMKKTLESDVKDVVLSDRLTNTPACLVASSADPSAHMQKLMAQMGKEYAGQQVKRIMEINPNHPVFEKMLKASPEQQTKWAEILYAQALLTEGSNLPDPVKFSQQIAELMVQAADSTKH |
| 5395 | sp|P02519|HSP11\_SOYBN | MSLIPSFFGGRRSSVFDPFSLDVWDPFKDFPFPSSLSAENSAFVSTRVDWKETPEAHVFKADIPGLKKEEVKLEIQDGRVLQISGERNVEKEDKNDTWHRVERSSGKLVRRFRLPENAKVDQVKASMENGVLTVTVPKEEIKKPDVKAIDISG |
| 5396 | sp|Q5HVP5|HTPG\_CAMJR | MQFQTEVNQLLQLMIHSLYSNKEIFLRELISNASDALDKLNFLSVSDDKYKSLKFEPKIEIKIDKDKKTLSISDNGIGMDKDDLINNLGTIAKSGTKSFLENLSGDAKKDSQLIGQFGVGFYSAFMVASKIEVLSKKALDDKAYLWSSDANGYEINDASKEEQGTSITLYLKDDEFANTYKIESIIEKYSNHIQFPIFMEKEEFTPAKEGEEEGKTELKISQINKANALWRMQKSSLKAEDYERFYEQNFHDSNKPLLYLHTKSEGKLEYNSLFFIPQNAPFDLFRVDYQSGLKLYVKRVFISDDDKELLPTYLRFVRGIIDVEDLPLNVSREILQENQILKGVKEASVKKILGELEKLKNNDKEKYLSFFKTFGKVLKEGLYGFGGEKDSLLKLMLYKSTKGENLRSLEEYKNDLQGEQKEIFYIAGNNESLLRTSPLLEEYKQKNIEVLLMDDEIDSLVTPMLEFEGLKFIAINQVEDKNELSDEEKNTFAPLVAKFKELLKDQVEDVRLTSRLKDSPSCIVYDKNKPDFAMQQLLKQMGQEQNFKPILEINPKHAIFTGLKNNESFSADIATLVLNMAKLSEGMGVDNPAEFNASLTKIINKAFS |
| 5397 | sp|P0ACH0|HSLR\_ECO57 | MKEKPAVEVRLDKWLWAARFYKTRALAREMIEGGKVHYNGQRSKPSKIVELNATLTLRQGNDERTVIVKAITEQRRPASEAALLYEETAESVEKREKMALARKLNALTMPHPDRRPDKKERRDLLRFKHGDSE |
| 5398 | sp|A1BFP7|HTPG\_CHLPD | MTNNDTPGMREYEYKAEMKQLLELIVHSLYTHPEIFLRELISNASDALSKVRFNALTDESIINSDAGLAIRITLDPEAHTIVIEDNGTGMTEEELILNLGTVARSGTLGFLQALKEQQKELDGNLIGQFGVGFYSVFMVTDEVTVETRSSGADSAGYRWRSGAAGTFTIERIEKEQRGTKISFALKDEFKEFSEAYRIEQIIRKYSNFVDFPIFLGDNQINTISALWQRSKNEVSDEERNEFYKFLSNDFNPPLDSLHLSVEGKVCFKALLFLPEEAPPELMYRQGDLESRGPQLYVKKVLIQQECRDLLPEYLRFVAGVVDTEDLPLNVSREVVQSSKVMANIRQILTGKILSWFESMATDQPEKFRKFYKAFGPFLKIGLNTDFTHRDRIIGLMRFESTKTAEGEYVTFKEYVERMEAGQNEIYYHSGSNRIQLLAHPNLEYFQHKGIEVLLLSDPVDVFVIPSIHEYDKKPLKSIEKADIDFTRTGDDKTEPPLPETLSQPLLGLFRQTIGDVIEDVVESHRLVSSPVTLVSGKDSLDSSMEKMMKMMHAEMPAAKKILEVNTSHPIIKNLSGMIMANEHNPLIRTVIQQLYDGALLHEGNLDATTGFLQRMNELIEAATMSR |
| 5399 | sp|A1V292|HTPG\_BURMS | MTQQTMSFQAEVKQLLHLMIHSLYSNKEIFLRELVSNASDAADKLRFEALENNALYESDPNLRIRLSFDKAARTITIDDNGIGMSRDEAIANLGTIARSGTKEFFSKLSGDQQKDAALIGQFGVGFYSGFIVADRITVETRRAGLPASEGVRWESAGEGDFQVDTIERAARGTTITLHLREGEDELLSSYRLKSIVQKYSDHVALPILMKKEEWDQEKGEMVEKDEDETINQASALWTRAKSEVTDEQYKQFYQHVAHDHQDPLAWTHNRVEGRSEYTQLLFVPSHAPFDLWNRDYRGGLKLYVKRVFIMDDAEQLLPQYLRFIKGVVDSSDLPLNVSREILQESRDVKAIREGVTKRALSMLEELANAEDDAGKEKYKTFWSAFGQVLKEGVGEDHANRERVAKLLRFASTHGDTDAQDVALADYVARMKPEQTKIYYVTADTWQAAKNSPHLEVFRKKGVEVLLLTDRVDEWMLSFLHEFDGKPLASVARGDLDLGALNDDEKKAQEETGEAMKPVVDKMKETLGEKVKDVRVTFRLTDSPSCLVADDNDMSGYLQRMLKAAGQSAPSFQPILEINPEHPLVKALKADGADFGDWCHLLFDQALLAEGGALEDPASFVKRTNALLLSRAA |
| 5400 | sp|Q4K8U3|HTPX\_PSEF5 | MMRILLFLATNLAVVLIASITLSLFGFNGFMAANGVDLNLNQLLIFCAVFGFAGSLFSLFISKWMAKMSTSTQIITQPRTRHEQWLLHTVEQLSREAGIKMPEVGIFPAYEANAFATGWNKNDALVAVSQGLLERFSPDEVKAVLAHEIGHVANGDMVTLALIQGVVNTFVMFFARIIGNFVDKVIFKNEEGQGIAYYVATIFAELVLGILASAIVMWFSRKREYRADEAGARLAGTNAMIGALQRLRSEQGLPVHMPDTLNAFGINGGIKQGLARMFMSHPPLEERIEALRRRG |
| 5401 | sp|B2ICL8|HSLU\_BEII9 | MTDFSPREIVSELDRYIVGQNDAKRAVAIALRNRWRRLKLEGAMREEVLPKNILMIGPTGCGKTEIARRLAKLANAPFLKVEATKFTEVGYVGRDVEQIIRDLVETAIVMVKAEKRKSLEAKAHQSVEERLLDALVGANAAQTTRDSFRKKLRDGDLEDKEIEIELAQATGNLPMFDLPNMPGAAVGAISIGDIFAKSLGRSTKRRRSTVKEAREPLLAEESEKLMDQEQIIAQAIHSVENNGIVFLDEIDKICAREGRGGADVSREGVQRDLLPLIEGTSVATKHGTIKTDHILFIASGAFHVAKPSDLLPELQGRLPIRVELLPLNEEDFRRILTETEVSLIKQYEALLATEGVNLVFTPEAVSSLAKVAVQVNSSVENIGARRLQTVMERVLDEVSYTAPDRSGQTITIDAAYVEKNIGDLAKNTDLSRFIL |
| 5402 | sp|P64412|HTPG\_MYCBO | MNAHVEQLEFQAEARQLLDLMVHSVYSNKDAFLRELISNASDALDKLRIEALRNKDLEVDTSDLHIEIDADKAARTLTVRDNGIGMAREEVVDLIGTLAKSGTAELRAQLREAKNAAASEELIGQFGIGFYSSFMVADKVQLLTRKAGESAATRWESSGEGTYTIESVEDAPQGTSVTLHLKPEDAEDDLHDYTSEWKIRNLVKKYSDFIAWPIRMDVERRTPASQEEGGEGGEETVTIETETLNSMKALWARPKEEVSEQEYKEFYKHVAHAWDDPLEIIAMKAEGTFEYQALLFIPSHAPFDLFDRDAHVGIQLYVKRVFIMGDCDQLMPEYLRFVKGVVDAQDMSLNVSREILQQDRQIKAIRRRLTKKVLSTIKDVQSSRPEDYRTFWTQFGRVLKEGLLSDIDNRETLLGISSFVSTYSEEEPTTLAEYVERMKDGQQQIFYATGETRQQLLKSPHLEAFKAKGYEVLLLTDPVDEVWVGMVPEFDGKPLQSVAKGEVDLSSEEDTSEAEREERQKEFADLLTWLQETLSDHVKEVRLSTRLTESPACLITDAFGMTPALARIYRASGQEVPVGKRILELNPSHPLVTGLRQAHQDRADDAEKSLAETAELLYGTALLAEGGALEDPARFAELLAERLARTL |
| 5403 | sp|Q47XA7|HTPG\_COLP3 | MSETNQVQNHAFASDNAKILQLMIHSLYSNKEIFLRELVSNAADAADKLRFKALSDNTLYENDGDLRVRVSCDKENNTLTISDNGIGMNVDEVIEHLGTIAKSGTAEFFSQLSGDQASDSQLIGQFGVGFYSAFIVADKVTVRTRKAGDSATDGVEWISAGEGEFTTAKIEKTNRGTDIILHLKEDESEYADDWRLKSIVTKYSDHISVSVEMLTAEVPAVEAVAEVTDEKDNVTRPAADAVDAIPALWEPVNKATALWTREKADITDEEYKEFYKHVSHDFGDPLLWEHNRVEGKTEYTSLLYVPTKAPFDMYNREKQHGLKLFVQRVFIMDDAEQFMPTYLRFVKGLLDSNDLPLNVSREILQDNKVTQAIRKGCTKRVLKMLEKLGNKDADKYQGFWDEFGQVLKEGPAEDHANKEQVAGLLRFASTHEDSTTQNVSLASYIERMKEGQDKIYFVVADSFEAAKNSPHLEVFRKKGIEVLLMSDRIDEWLVSHLTEFDGKQLQSVTRGGLDLGDMDDAETKEAQEKLEKEYDSVVKRIKASLDGKVKEVKLSQRLTDSPACIVADDDDMSSQMAKLMASVGQEVPDTLPIFEINGEHALVKHVADEQDDDMFNQWVEVLFEQAMLAERGSLKDPASFVSRLNKLMLSLTK |
| 5404 | sp|Q08992|HSP32\_YEAST | MTPKRALISLTSYHGPFYKDGAKTGVFVVEILRSFDTFEKHGFEVDFVSETGGFGWDEHYLPKSFIGGEDKMNFETKNSAFNKALARIKTANEVNASDYKIFFASAGHGALFDYPKAKNLQDIASKIYANGGVIAAICHGPLLFDGLIDIKTTRPLIEGKAITGFPLEGEIALGVDDILRSRKLTTVERVANKNGAKYLAPIHPWDDYSITDGKLVTGVNANSSYSTTIRAINALYS |
| 5405 | sp|Q8RGH4|HTPG\_FUSNN | MKKEEKIFKAETKELLNLMIHSIYTNKEIFLRELISNANDAIDKLKFQSLTDTDILKDNDKFRIDISVDKDNRTLTISDNGIGMTYEEVDDNIGTIAKSGSKLFKEQLEEAKKGDIDIIGQFGVGFYSGFIVADKITLETKSPYSENGVKWISSGDGNYEIEEIAKQDRGTKITLHLKDGDEYNEFLEDWKIKDLVKKYSNYIRYEIYFGDEVINSTKPIWKKDKKELKDDDYNEFYKATFHDWNDPLLHINLKVQGNIEYNALLFIPKKLPFDYYTKNFKRGLQLYTKNVFIMEKCEDLIPEYFNFISGLVDCDSLSLNISREILQQNAELQVISKNLEKKITSELEKILKNDREKYVEFWKEFGRSIKAGVQDMFGMNKEKLQDLLIFVSSHDDKYTTLKEYVDRMGDNKEILYVPAESVDAAKYLPKMEKLKEQGREVLILTDKIDEFTLMAMRDYSGKEFKSINSSDFKFSDDKEKEEEVKKIADENKELIEKAKEFLKDKVSEVELSNNIGNSASSLLAKGGLSLEMEKTLSEMTNNNDMPKAEKVLAINPEHVLFNRLKSSVNTEDFNKLVDVLYNQALLLEGFNIENPAEFIKNLNSLIK |
| 5406 | sp|P78983|HSP70\_ALTAL | KTNKIVITNDKGRLSKEEIERMLAEAEKYKAEDEAEAARISAKNALESYAYSLRNTLSDSKVDEKLDAGDKQKLTAEIDKTVQWLDDNQTATKDEYESQQKELEGVANPIMMKFYGAGGEGGMPGGMPGGGMPGGAPGGAAGDDGPTVEEVD |
| 5407 | sp|Q48K64|HTPG\_PSE14 | MSVETQKETLGFQTEVKQLLHLMIHSLYSNKEIFLRELISNASDAVDKLRFEALSKPELLEGGAELKIRVSFDKDAKTVTLEDNGIGMSREDVITHLGTIAKSGTADFMKNLSGDQKKDSHLIGQFGVGFYSAFIVADQVEVFSRRAGTPANEGVHWSSKGEGEFEVATVDKADRGTRIVLHLKNGEEEFADGYRLRNIIKKYSDHIALPIELPKEQAPAAEGEEVPALEWETVNRASALWTRPRTEVKDEEYQEFYKHVAHDYENPLSWSHNKVEGKLEYTSLLYVPARAPFDLYQREAPRGLKLYVQRVFVMDQAESFLPLYMRFVKGVVDSNDLSLNVSREILQKDPIIDSMKSALTKRVLDMLEKLAKNEPEQYKGFWKNFGQVLKEGPAEDFANKEKIAGLLRFASTSDDSGEQSVSLAEYLARAKEGQDKIYYLTGESYAQVKNSPHLEVFRKKGIEVLLLTDRIDEWLMSYLSDFDGKGFVDVARGDLDLGNLDSEEDKKAQEEIAKDKEGLIERLKAALGESVSEVRVSHRLTDSPAILAIGEQDMGLQMRQILEASGQKVPDSKPIFEFNPAHPLIGKLDAEQSEERFGDLSHILFDQAALSAGDSLKDPAAYVRRLNKLLVELSV |
| 5408 | sp|P16019|HSP70\_THEAN | MTGPAIGIDLGTTYSCVAVYKDNNVEIIPNDQGNRTTPSYVAFTDTERLIGDAAKNQEARNPENTIFDAKRLIGRKFDDRTVQEDMKHWPFKVTNGPNGKPNIEVTFQGEKKTFHAEEISSMVLTKMKEIAESFLGKSVKDVVITVPAYFNDSQRQATKDAGTIAGLNVMRIINEPTAAAIAYGLDKKGGGEKNVLIFDLGGGTFDVSILTIEDGIFEVKATAGDTHLGGEDFDNLLVEHCVRDFMRLNNGKNISSNKRALRRLRTHCERAKRVLSSSTQATIELDSLYEGIDYNTTISRARFEELCNEKFRSTLVPVEKALESSGLDKRSIHEVVLVGGSTRIPKIQTLIKNFFNGKEPCRSINPDEAVAYGAAVQAAILSGNQSEKIQELLLLDVAPLSLGLETAGGVMTVLIKRNTTIPTKKNQIFTTNEDRQEGVLIQVFEGERAMTKDNNLLGKFHLTGIAPAPRGVPQIEVTFDIDANGILNVTAMDKSTGKSEHVTITNDKGRLSQEEIDRMVEEAEKYKEEDEKRRRCVESRHKLENYCYSMKNTLSEDQVKQKLGADEVDSALSTITDALKWVEANQLAEHDEYEDKLKHVEGVCNPLVTKLYQSGAAPGGPDMSGGFPGGAAPPPQSSGPTVEEVD |
| 5409 | sp|A8ZW65|HSLU\_DESOH | MSDLTPAEIVIELDKYIVGQAKAKRSVAIALRNRWRRRQVPEAMREEIAPKNIILIGPTGVGKTEIARRLARLTDSPFLKIEASKFTEVGYVGRDVESMVRDLVELTVTHLKVSEREAVREKAVRLAEERILDVLLPRPEGPQRADGDEPLGSHIEIVSDDDGRVSTREKLRTMLRAGKLKDRYVDLELADRSMPMVEIFSNSGLEEMGVNFKDMFAGLLPKNKKRRKVKVPEALEMLTDEEAQNLVDMDRVVRMAVEKVEQSGIIFLDEIDKIVATSKGSGPDVSREGVQRDLLPIVEGSTVMTKHGAVKTDHILFIASGAFHMCKPSDLIPELQGRFPIRVELDALGKEEFFRILIEPENALLLQYIELLRTEGVDVAFADEAVREIAAMAEEVNAGTENIGARRLHTLMEYLLEDLLFDAPDRAGTKVAIDRAYVTDRLKTIRGNEDLSRFIL |
| 5410 | sp|Q3JAF6|HTPG\_NITOC | MTVASHKETLGFQTEVKQLLNLMIHALYSNKEIFLRELISNGADAADKLRFEALTDDALYEDDSALHIRLSYDKDKRTLTIADNGIGMGRQEVVENIGTIAKSGTRAFLESLSGDQAKDARLIGQFGVGFYSAFIVADKVVLETRRAGFGPEHGVRWESGGAGDYTIETIEKATRGTVVTLHLREGEDEFLDGWRLRHIVTRYSDHIDLPIEIKREIGDEEKSEENGEEWEQINKATALWTLPKNDIKEEEYQAFYKHVAHDFEDPLAWTHNRVEGKLEYTSLLFIPPRAPFDLWERDRTQGIKLYVQRVFIMDDTEQLMPRYLRFVRGVVDSNDLPLNISREILQNNRVIDSIRAGSVKKILGLLEDMAKHEAKKYQSFWKEFGQVMKEGVGEDSGNREQIARLLRFASTHHDTAEQTVSLADYLSRMKEGQDKIYYITADSFPAAKSSPHLEVFRKKGIEVLLLSDRVDEWLVASLPEFEGKSLQSVTKGELDLGHLEDEQEKQQQKEVEEDFQNLVERVKNNLGDKVKEVRVTHRLTDSPVCLVVEQHDMSGYLERLLKEAGQQAPHIQPILELNPAHPIIARLKGEESEENFGDWAHLLFEQALLAEGGRLEEPALFVKRLNSLLLAMAD |
| 5411 | sp|P32478|HS150\_YEAST | MQYKKTLVASALAATTLAAYAPSEPWSTLTPTATYSGGVTDYASTFGIAVQPISTTSSASSAATTASSKAKRAASQIGDGQVQAATTTASVSTKSTAAAVSQIGDGQIQATTKTTAAAVSQIGDGQIQATTKTTSAKTTAAAVSQISDGQIQATTTTLAPKSTAAAVSQIGDGQVQATTTTLAPKSTAAAVSQIGDGQVQATTKTTAAAVSQIGDGQVQATTKTTAAAVSQIGDGQVQATTKTTAAAVSQIGDGQVQATTKTTAAAVSQITDGQVQATTKTTQAASQVSDGQVQATTATSASAAATSTDPVDAVSCKTSGTLEMNLKGGILTDGKGRIGSIVANRQFQFDGPPPQAGAIYAAGWSITPDGNLAIGDNDVFYQCLSGTFYNLYDEHIGSQCTPVHLEAIDLIDC |
| 5412 | sp|Q7EZ57|HS188\_ORYSJ | MDYYYPMEEEEEVHERPRFRRPVHPWQWHHWQNLLGLLSSSSPSPATAAAAQRCSHVSWEETAAAHLYSASLPGVRKEEIRVEVEDAMYLVIRTELDDGGDGDGGGGGGRRSFARKFRLPAMVDADGISAEYTHGVLRVTVPRLHTRARPVVNLAGGGGGGGGPACDPVARAA |
| 5413 | sp|B3R5J8|HTPG\_CUPTR | MTAPHETMSFQAEVKQLLHLMIHSLYSNKEIFLRELVSNASDATDKLRFEAIANPSLLENDADLAIRIEADAKARTLKITDNGIGMSRDEAIRNLGTIARSGTKEFFQQLSGDQQKDAALIGQFGVGFYSAFIVADKVTVETRRAGLGAEEAVRWESTGDGEFTVDAIARAERGTTITLHLREGEDDFLSAWRLKSIIQKYSDHISLPIRMPKEVWDAEASTYKRTDEWESVNQASALWTRAKSDITDEQYTAFYQHIAHDNEAPLAWTHNRVEGRSEYTQLLYIPARAPFDLWDRNHKAGLKLYVKRVFIMDDAEQLLPGYLRWVKGVVDSADLPLNVSRELLQESRDVKAIREGCTKRVLSMLETLADSEDEAERAKYATFWQQFGQALKEGVGEDQANQERVAKLLRFASTHNDTAEQNVALAAYVGRMKEGQDKIYYVTADTWSAAKNSPHLEVFRKKGIEVLLLTDRVDEWMLSYLREFDGKELVSVARGDLDLGKLADEAEKAEQEKAEADWKDVIERARAVLAGKAKDVRVTLRLTESASCLVSDEGDMSGYLQRLLKQAGQKAPDAQPILELNPEHALVKKLRDLPEGEAFSDRLQVLFDQALLAEGGMLEDPAAYVQRVNKLLA |
| 5414 | sp|B1LNN6|HSLU\_ECOSM | MSEMTPREIVSELDKHIIGQDNAKRSVAIALRNRWRRMQLNEELRHEVTPKNILMIGPTGVGKTEIARRLAKLANAPFIKVEATKFTEVGYVGKEVDSIIRDLTDAAVKMVRVQAIEKNRYRAEELAEERILDVLIPPAKNNWGQTEQQQEPSAARQAFRKKLREGQLDDKEIEIDLAAAPMGVEIMAPPGMEEMTSQLQSMFQNLGGQKQKARKLKIKDAMKLLIEEEAAKLVNPEELKQDAIDAVEQHGIVFIDEIDKICKRGESSGPDVSREGVQRDLLPLVEGCTVSTKHGMVKTDHILFIASGAFQIAKPSDLIPELQGRLPIRVELQALTTSDFERILTEPNASITVQYKALMATEGVNIEFTDSGIKRIAEAAWQVNESTENIGARRLHTVLERLMEEISYDASDLSGQTITIDADYVSKHLDALVADEDLSRFIL |
| 5415 | sp|B1X8S0|HSPQ\_ECODH | MIASKFGIGQQVRHSLLGYLGVVVDIDPVYSLSEPSPDELAVNDELRAAPWYHVVMEDDNGLPVHTYLAEAQLSSELQDEHPEQPSMDELAQTIRKQLQAPRLRN |
| 5416 | sp|Q10265|HSP71\_SCHPO | MSKSIGIDLGTTYSCVGHFSNNRVEIIANDQGNRTTPSYVAFTDTERLIGDAAKNQVAMNPHNTIFDAKRLIGRRFNDPEVQSDMKHWPFKVIEKDGKPLIQVEFKGETKTFTPEEISSMVLLKMRESAEAFLGGKVTDAVVTVPAYFNDSQRQATKDAGLIAGLNVLRIINEPTAAAIAYGLDRSNQHETNVLIFDLGGGTFDVSLLTIEEGIFEVKATAGDTHLGGEDFDSRLVNHFAQEFKRKNKKDITGNARAVRRLRTACERAKRTLSSSAQASIEIDSLYEGIDFYTSITRARFEELCADLFRNTMEPVEKVLRDSKIDKSSVNEIVLVGGSTRIPRIQKLVSDFFNGKEPCKSINPDEAVAYGAAVQAAILVGDTSEKTQDLLLLDVAPLSLGIETAGGVMTPLIKRNTTIPTKKSEVFSTYADNQPGVLIQVFEGERARTKDCNLLGKFELSGIPPAPRGVPQIEVTFDVDANGILNVSALEKGTGKTQKITITNDKGRLSKEEIDRMVSEAEKYKAEDEAETSRIQAKNHLESYAYSLRNSLDDPNLKDKVDASDKEAIDKAVKETIEWLDHNTTAAKDEYEDKQKELEGVANPIMAKIYQAGGAPGGAPGGMPGGAPGGAPGGADNGPEVEEVD |
| 5417 | sp|Q58FG0|HS905\_HUMAN | MGFHHVGQAGLELLTSGHPALERRPEYLEERRIKEIVKKHSQFIGYPITLFVEKKRNKQVSDAEAEKKEDKRKKKKESNDKPEIEDVGSDEEEEKKDADKKKKKSKEKYIDQELNKTKPIWTRNPDAITNEEYGEFHQSLTNNWEDHLAVKHFSVEGQLEELKDSRRVMKANQKHIYYITGETKDQVANSAFVECLQKHGLEVIYMIELIDKYCVQQLKELESKTVVSVAKEGLELPEDEEEKKKQEEKKTKFENLCKIMKDMLEKKVKKVVVSNCMEDPQRHTNKIYRMIKLGLGVDEYDPTANDINAAITKEMPPLRGGDDTSRMEEVGGSG |
| 5418 | sp|B6JL98|HSLU\_HELP2 | MSKLNMTPREIVAYLDEYIIGQKEAKKSIAIAFRNRYRRLQLEKSLQEEITPKNILMIGSTGVGKTEIARRIAKIMELPFVKVEASKYTEVGFVGRDVESMVRDLVNNSVLLVENEHKEKLKDKIEEAVIEKIAKKLLPPLPSGVSEEKKQEYANSLLKMQQRIAQGELDSREIEIEVRKKSIEIDSNVPPEILRVQENLIKVFHKEQDKVKKTLSVKEAKEALKAEISDTLLDSEAIKMEGLKRAESSGVIFIDEIDKIAVSSKEGSRQDPSKEGVQRDLLPIVEGSVVNTKYGSIKTEHILFIAAGAFHLSKPSDLIPELQGRFPLRVELENLTEEIMYMILTQTKTSIIKQYQALLKVEGVGIAFEDDAIKELAKLSYNANQKSEDIGARRLHTTIEKVLEDISFEAEDYSGQKVTITKELVQSKLEDLVADENLVKYIL |
| 5419 | sp|Q0DY72|HS178\_ORYSJ | MSLVLSRMLLDRFFPGAGGVVAGEARPPMDWRETPVAHVFEMDLPGLAKDQVAVEVVDGHILRVRAGGEHEDANNAAKAGKASGEEEEENDGVRWHCRERAAGRRRAAVTQFRLPEDAAADEASARMADGVLTVTVPKRKGKKRHAGNGKAAGDDKPVCCRFWP |
| 5420 | sp|P20583|HSP71\_TRYCR | MFARRLRGAGSLAAASLARWQSSKVTGDVIGIDLGTTYSCVAVMEGDKPRVLENTEGFRATPSVVAFKGQEKLVGLAAKRQAVTNPQSTFFAVKRLIGRRFEDSNIQHDIKNVPYKIGRSSNGDAWVQDANGKQYSPSQVGAFVLEKMKETAENFLGRKVSNAVVTCPAYFNGPQRQATKDAGTIAGLNVIRVVNGPTAAALAYGLDKTKDSMIAVYDLGGGTFDISVLEIAGGVFEVKATNGDTHLGGEDFDLCLSDYILTEFKKSTGIDLSNERMALQRIREAAEKAKCELSTTMETEVNLPFITANQDGAQHVQMTVSRSKFESLAEKLVQRSLGPCKQCIKDAAVDLKEISEVVLVGGMTRMPKVIEAVKQFFGRDPFRGVNPDEAVALGGATLGGVLRRDVKGLVLLDVTPLSLGVETLGGVFTRMIPKNTTIPTKKSQTFFSTAAFNQTQVGIKVFQGEREMAADNQMMGQFDLVGIPPAPRGVPQIEVTFDIEPNGICHVTAKDKATGKTQNITITASGGLSKEQIERMIRDSESHAESDRLKRELVEVRNNAETQANTAERQLTEWKYVSDAEKENVRTLLRACRKSMENPNVTKDELSAATDKLQKAVMECGRTEYQQAAAGNSSSSSGNTDSSQGEQQQQGDQQKQ |
| 5421 | sp|B8IZJ2|HSLU\_DESDA | MSTLTPREIVAELNKFVVGQEQAKRMVAVAVRNRWRRQHLPSDLRDEVSPKNIIMMGPTGVGKTEIARRLARLSGAPFIKVEATKFTEVGYVGRDVESMVRDLMEIGINLVRDEENARVRKAAEAAAESRLMDLLLPNSFGQEERASTREKLLQQFRLGFLDEREVEMEVTEQGGGGVDIFAIPGMEQMGGQVKDMFSKAFPPKHSRRKMKIRDAFNVLVQEESGKLVDQDALSQRAKERVEQTGIIFIDEIDKIASSSQNRTSDISREGVQRDLLPIVEGSSVNTKYGMIRTDHILFIAAGAFHFSKPSDMIPELQGRFPLRVELQALGREEFLRILTEPDNALTKQYEALLGTEQIRLSFTMDGLEEIAAFAEDINSRTENIGARRLYTIMEKILADISFDAPDMPGAQIVVNKDYVVEHLQDVRGDQDLTQYIL |
| 5422 | sp|P31540|HSP98\_NEUCR | MTSKMEFTDRAKKALEDAMALAEQYAHSQLLPVHLAVALLDPLPDPSKDQQNAPAGATSSLFRQVIERAHGDPQLFDRALKKALVRLPSQDPPPDHVSMAPSFHTVLRKANELQKTQKDTYIAVDHLITALAEEPSIMNALKEANIPKPKLVTDAIQAIRGTKRVDSRNADTEEEHENLAKFTIDMTAMAREGKIDPVIGREEEIRRVIRILSRRTKNNPVLIGEPGVGKTTVVEGLAQRIVNADVPDNLANCKLLSLDVGALVAGSKYRGEFEERMKGVLKEISESKEMIILFIDEIHLLMGAGASGEGGMDAANLLKPMLARGQLHCIGATTLAEYRKYIEKDAAFERRFQQVIVKEPSVSETISILRGLKEKYEVHHGVTISDAAIVAAANLAARYLTSRRLPDSAIDLIDEAAAAVRVARESQPEIIDSLERKLRQLKIEIHALSREKDEASKARLEQAKKDAENVEEELRPLREKYEQEKQRAKALQEARMKLESLRQKAEEASRMGDHSRAADLQYYAIPEQEAVIKRLEKEKAAADAALNAAAAETGGAMITDVVGPDQINEIVARWTGIPVTRLKTSEKEKLLHMEKHLSKIVVGQKEAVQSVSNAIRLQRSGLSNPNQPPSFLFCGPSGTGKTLLTKALAEFLFDDPKAMIRFDMSEYQERHSLSRMIGAPPGYVGHDSGGQLTEALRRKPFSILLFDEVEKAAKEVLTVLLQLMDDGRITDGQGRVVDARNCIVVMTSNLGAEYLSRPNAKDGKIDPTTRELVMNALRNYFLPEFLNRISSIVIFNRLTRREIRKIVELRIAEIQKRLQDNDRNVKIEVSEEAKDKLGALGYSPAYGARPLQRVLEKEVLNRLAVLILRGSIRDGEVARVVVQDGKITVLPNHPEVNDEDDEMMLDEEDAVDEVAPESEMDEDLYDD |
| 5423 | sp|B1ZL59|HSLU\_METPB | MTTFSPREIVSELDRFIVGQKDAKRAVAIALRNRWRRQQLKGPLRDEVAPKNILMIGPTGCGKTEIARRLARLAGAPFLKVEATKFTEVGYVGRDVEQIVRDLVEVGIGLTREEKRKAVKAKAEAAAESRILDALVGPTASQATRESFRKKLRNSELDDKEVEIELAPSGPQGMPMFEIPGMPGASMGAINISDMLGKALGGQRGKPRRITVADAYAPLIAEESDKLVDDDALTREAIREVEDNGIVFLDEIDKICAREGRSGADVSREGVQRDLLPLIEGTTVATKHGPVKTDHILFIASGAFHVSKPSDLLPELQGRLPIRVELQPLTVEDFKQILTATEASLIKQTVALMETEGVTLDFTEDAIDALARVAVEVNGSVENIGARRLQTVLERVIDEISFTATDRSGETVPIDAGYVRERVADLAANTDLSRFIL |
| 5424 | sp|P09886|HS21C\_PEA | MAQSVSLSTIASPILSQKPGSSVKSTPPCMASFPLRRQLPRLGLRNVRAQAGGDGDNKDNSVEVHRVNKDDQGTAVERKPRRSSIDISPFGLLDPWSPMRSMRQMLDTMDRIFEDAITIPGRNIGGGEIRVPWEIKDEEHEIRMRFDMPGVSKEDVKVSVEDDVLVIKSDHREENGGEDCWSRKSYSCYDTRLKLPDNCEKEKVKAELKDGVLYITIPKTKIERTVIDVQIQ |
| 5425 | sp|A7ZUE6|HSLU\_ECO24 | MSEMTPREIVSELDKHIIGQDNAKRSVAIALRNRWRRMQLNEELRHEVTPKNILMIGPTGVGKTEIARRLAKLANAPFIKVEATKFTEVGYVGKEVDSIIRDLTDAAVKMVRVQAIEKNRYRAEELAEERILDVLIPPAKNNWGQTEQQQEPSAARQAFRKKLREGQLDDKEIEIDLAAAPMGVEIMAPPGMEEMTSQLQSMFQNLGGQKQKARKLKIKDAMKLLIEEEAAKLVNPEELKQDAIDAVEQHGIVFIDEIDKICKRGESSGPDVSREGVQRDLLPLVEGCTVSTKHGMVKTDHILFIASGAFQIAKPSDLIPELQGRLPIRVELQALTTSDFERILTEPNASITVQYKALMATEGVNIEFTDSGIKRIAEAAWQVNESTENIGARRLHTVLERLMEEISYDASDLSGQTIIIDADYVSKHLDALVADEDLSRFIL |
| 5426 | sp|A4XPN6|HSLU\_PSEMY | MSMTPREIVHELNRHIIGQDDAKRAVAIALRNRWRRMQLPADLRQEVTPKNILMIGPTGVGKTEIARRLAKLANAPFLKVEATKFTEVGYVGRDVESIIRDLADAAVKMLREQEMTKVRHRAEDAAEERILDALLPPARQAFGDEPVRSEDSNTRQLFRKRLREGQLDDKEIDIEVAESPMGVEIMTPPGMEEMTSQLQNLFAGLGKGKKKSRKLKVADALKLVRDEEAARLVNEEELKARALEAVEQHGIVFIDEIDKVAKRGNTGGADVSREGVQRDLLPLIEGCTVNTKLGMVKTDHILFIASGAFHLAKPSDLVPELQGRLPIRVELKALSPQDFERILTEPHASLTEQYAALLKTEGLNIEFAEEGIKRLAEIAWQVNEKTENIGARRLHTLLERLLEEVSFSAGDLAGQQSGEPIRIDAAYVNGHLGELAQDEDLSRYIL |
| 5427 | sp|Q3BS21|HTPG\_XANC5 | MTVETDKQTLGFQTEVKQLLQLMIHSLYSNKEIFLRELVSNAADAADKLRFEALVKPELLEGSGELRIRVDYDKDARTVTIDDNGIGMSREEAVSHLGTIAKSGTADFLKHLSGDQKKDANLIGQFGVGFYSAFIVADQVDVYSRRAGLPASEGVHWSSRGEGEFEIASVDKPERGTRIVLHLKEGEESFADGWTLRGILKKYSDHIGLPIEMRKEHYGEAADKPAEPEWEAVNRASALWTRPKSEIKDEEYQEFYKHIAHDAGNPLAWSHNKVEGKLEYTSLLFVPGRAPFDLYHRDSAKGLKLYVQRVFIMDQAEQFLPLYLRFIKGVVDSSDLSLNVSREILQSGPVVDSMKSALTKRSLDMLEKLAKDKPDDYATFWRNFGQALKEGPAEDYANREKIAGLLRFSSTHDTTGAQSVGLADYVSRLAEGQDKLYYLTGESYAQIKDSPHLEVFRKKGIEVLLLTDRIDEWLMSYLTEFDGKSFVDVARGDLDLGKLDSEEDKKAQEDLAKSKEGLASRIKAALGDDVAEVRVSHRLTDSPAILAIGQGDLGLQMRQLLEASGQAVPESKPVFEFNPTHPLIEKLDAEQDMDRFGDLSRVLFDQAALAAGDSLKDPAAYVRRLNKLLLELSV |
| 5428 | sp|C6DHM6|HSLU\_PECCP | MSEMTPREIVSELDSYIIGQHKAKRAVSIALRNRWRRMQLDEALRHEVTPKNILMIGPTGVGKTEIARRLAKLANAPFIKVEATKFTEVGYVGKEVDSIIRDLTDSAIKMVRLQSIEKNRFRAEEMAEDRILDVLIPPAKNNWGQAESTPEPSAARQAFRKKLREGQLDDKEIEIDLAAAPVGVEIMAPPGMEEMTNQLQSMFQNLAGQKQKARKIKIKDAFKLLIEEEAAKLVNPEELKQQAIEAVEQHGIVFIDEIDKICKRGESSGPDVSREGVQRDLLPLVEGCTVSTKHGMVKTDHILFIASGAFQVASPSDLIPELQGRLPIRVELQALTTEDFERILTEPSASLTEQYKALMATEGVDISFTADGIRRIAEAAWQVNESTENIGARRLHTVMERLIEDVSYDASEMNGQSVTIDADYVRNHLDELVADEDLSRFIL |
| 5429 | sp|Q9SKY8|HSP7H\_ARATH | MAEAAYTVASDSENTGEEKSSSSPSLPEIALGIDIGTSQCSIAVWNGSQVHILRNTRNQKLIKSFVTFKDEVPAGGVSNQLAHEQEMLTGAAIFNMKRLVGRVDTDPVVHASKNLPFLVQTLDIGVRPFIAALVNNAWRSTTPEEVLAIFLVELRLMAEAQLKRPVRNVVLTVPVSFSRFQLTRFERACAMAGLHVLRLMPEPTAIALLYAQQQQMTTHDNMGSGSERLAVIFNMGAGYCDVAVTATAGGVSQIKALAGSPIGGEDILQNTIRHIAPPNEEASGLLRVAAQDAIHRLTDQENVQIEVDLGNGNKISKVLDRLEFEEVNQKVFEECERLVVQCLRDARVNGGDIDDLIMVGGCSYIPKVRTIIKNVCKKDEIYKGVNPLEAAVRGAALEGAVTSGIHDPFGSLDLLTIQATPLAVGVRANGNKFIPVIPRNTMVPARKDLFFTTVQDNQKEALIIIYEGEGETVEENHLLGYFKLVGIPPAPKGVPEINVCMDIDASNALRVFAAVLMPGSSSPVVPVIEVRMPTVDDGHGWCAQALNVKYGATLDLITLQRKM |
| 5430 | sp|P11501|HS90A\_CHICK | MPEAVQTQDQPMEEEVETFAFQAEIAQLMSLIINTFYSNKEIFLRELISNSSDALDKIRYESLTDPSKLDSGKDLKINLIPNKHDRTLTIVDTGIGMTKADLVNNLGTIAKSGTKAFMEALQAGADISMIGQFGVGSYSAYLVAEKVTVITKHNDDEQYAWESSAGGSFTVRLDNGEPLGRGTKVILHLKEDQTEYLEERRIKEIVKKHSQFIGYPIRLFVEKERDKEVSDDEAEEKEEEKEEKEEKTEDKPEIEDVGSDEEEEKKDGDKKKKKKIKEKYIDEEELNKTKPIWTRNPDDITNEEYGEFYKSLTNDWEDHLAVKHFSVEGQLEFRALLFVPRRAPFDLFENRKKKNNIKLYVRRVFIMDNCEELIPEYLNFMRGVVDSEDLPLNISREMLQQSKILKVIRKNLVKKCLELFTELAEDKENYKKFYEQFSKNIKLGIHEDSQNRKKLSELLRYYTSASGDEMVSLKDYCTRMKENQKHVYYITGETKDQVANSAFVERLRKHGLEVIYMIEPIDEYCVQQLKEFEGKTLVSVTKEGLELPEDEEEKKKQEEKKAKFENLCKIMKDILEKKVEKVVVSNRLVTSPCCIVTSTYGWTANMERIMKAQALRDNSTMGYMAAKKHLEINPDHSIIETLRQKAEADKNDKSVKDLVILLYETALLSSGFSLEDPQTHANRIYRMIKLGLGIDEDDTAAEEASPAVTEEMPPLEGDDDTSRMEEVD |
| 5431 | sp|Q2Y5Y6|HSLU\_NITMU | MSQLTPREIVHELDKHIIGQDAAKRSVAIALRNRWRRQQVQDPLRQEITPKNILMIGPTGVGKTEIARRLAKLADAPFIKVEATKFTEVGYVGRDVDSIIRDLVEAAVKQSRERETQKMRARAEDHAEERILDVLLPVARETGLQMDSIEAESATRQKFRKKLREGELNDKEIEIELATPHTHMEIFAPPGMEELTTQIQGMFQNLGAERKRMRKLKIREAMKLLIDEEASKLVNDEELKLRAVQNVEQNGIVFLDEIDKITSRSETSGADVSRQGVQRDLLPLVEGTTISTKYGMIKTDHILFIASGAFHLAKPSDLIPELQGRFPIRVELTSLSAGDFVQILTNTDACLKRQYEALLETEGVRLEFTPDAVKRLAEIAFAVNEKTENIGARRLYTAMEKLLEDVSFDAEKHHGDAVVIDAAYVDKRLGDLAQSEDLARYVL |
| 5432 | sp|P0A6H5|HSLU\_ECOLI | MSEMTPREIVSELDKHIIGQDNAKRSVAIALRNRWRRMQLNEELRHEVTPKNILMIGPTGVGKTEIARRLAKLANAPFIKVEATKFTEVGYVGKEVDSIIRDLTDAAVKMVRVQAIEKNRYRAEELAEERILDVLIPPAKNNWGQTEQQQEPSAARQAFRKKLREGQLDDKEIEIDLAAAPMGVEIMAPPGMEEMTSQLQSMFQNLGGQKQKARKLKIKDAMKLLIEEEAAKLVNPEELKQDAIDAVEQHGIVFIDEIDKICKRGESSGPDVSREGVQRDLLPLVEGCTVSTKHGMVKTDHILFIASGAFQIAKPSDLIPELQGRLPIRVELQALTTSDFERILTEPNASITVQYKALMATEGVNIEFTDSGIKRIAEAAWQVNESTENIGARRLHTVLERLMEEISYDASDLSGQNITIDADYVSKHLDALVADEDLSRFIL |
| 5433 | sp|P0AB22|HSPQ\_ECO57 | MIASKFGIGQQVRHSLLGYLGVVVDIDPVYSLSEPSPDELAVNDELRAAPWYHVVMEDDNGLPVHTYLAEAQLSSELQDEHPEQPSMDELAQTIRKQLQAPRLRN |
| 5434 | sp|Q57QS4|HSPQ\_SALCH | MIASKFGIGQQVRHSLLGYLGVVVDIDPEYSLDEPSPDELAVNDELRAAPWYHVVMEDDDGQPVRTYLAEAQLRSEMRDEHPEQPSMDELARTIRKQLQAPRLRN |
| 5435 | sp|P34058|HS90B\_RAT | MPEEVHHGEEEVETFAFQAEIAQLMSLIINTFYSNKEIFLRELISNASDALDKIRYESLTDPSKLDSGKELKIDIIPNPQERTLTLVDTGIGMTKADLINNLGTIAKSGTKAFMEALQAGADISMIGQFGVGFYSAYLVAEKVVVITKHNDDEQYAWESSAGGSFTVRADHGEPIGRGTKVILHLKEDQTEYLEERRVKEVVKKHSQFIGYPITLYLEKEREKEISDDEAEEEKGEKEEEDKEDEEKPKIEDVGSDEEDDSGKDKKKKTKKIKEKYIDQEELNKTKPIWTRNPDDITQEEYGEFYKSLTNDWEDHLAVKHFSVEGQLEFRALLFIPRRAPFDLFENKKKKNNIKLYVRRVFIMDSCDELIPEYLNFIRGVVDSEDLPLNISREMLQQSKILKVIRKNIVKKCLELFSELAEDKENYKKFYEAFSKNLKLGIHEDSTNRRRLSELLRYHTSQSGDEMTSLSEYVSRMKETQKSIYYITGESKEQVANSAFVERVRKRGFEVVYMTEPIDEYCVQQLKEFDGKSLVSVTKEGLELPEDEEEKKKMEESKAKFENLCKLMKEILDKKVEKVTISNRLVSSPCCIVTSTYGWTANMERIMKAQALRDNSTMGYMMAKKHLEINPDHPIVETLRQKAEADKNDKAVKDLVVLLFETALLSSGFSLEDPQTHSNRIYRMIKLGLGIDEDEVTAEEPSAAVPDEIPPLEGDEDASRMEEVD |
| 5436 | sp|C5A098|HSLU\_ECOBW | MSEMTPREIVSELDKHIIGQDNAKRSVAIALRNRWRRMQLNEELRHEVTPKNILMIGPTGVGKTEIARRLAKLANAPFIKVEATKFTEVGYVGKEVDSIIRDLTDAAVKMVRVQAIEKNRYRAEELAEERILDVLIPPAKNNWGQTEQQQEPSAARQAFRKKLREGQLDDKEIEIDLAAAPMGVEIMAPPGMEEMTSQLQSMFQNLGGQKQKARKLKIKDAMKLLIEEEAAKLVNPEELKQDAIDAVEQHGIVFIDEIDKICKRGESSGPDVSREGVQRDLLPLVEGCTVSTKHGMVKTDHILFIASGAFQIAKPSDLIPELQGRLPIRVELQALTTSDFERILTEPNASITVQYKALMATEGVNIEFTDSGIKRIAEAAWQVNESTENIGARRLHTVLERLMEEISYDASDLSGQNITIDADYVSKHLDALVADEDLSRFIL |
| 5437 | sp|B2TWC7|HSLU\_SHIB3 | MSEMTPREIVSELDKHIIGQDNAKRSVAIALRNRWRRMQLNEELRHEVTPKNILMIGPTGVGKTEIARRLAKLANAPFIKVEATKFTEVGYVGKEVDSIIRDLTDAAVKMVRVQAIEKNRYRAEELAEERILDVLIPPAKNNWGQTEQQQEPSAARQAFRKKLREGQLDDKEIEIDLAAAPMGVEIMAPPGMEEMTSQLQSMFQNLGGQKQKARKLKIKDAMKLLIEEEAAKLVNPEELKQDAIDAVEQHGIVFIDEIDKICKRGESSGPDVSREGVQRDLLPLVEGCTVSTKHGMVKTDHILFIASGAFQIAKPSDLIPELQGRLPIRVELQALTTSDFERILTEPNASITVQYKALMATEGVNIEFTDSGIKRIAEAAWQVNESTENIGARRLHTVLERLMEEISYDASDLSGQNITIDADYVSKRLDALVADEDLSRFIL |
| 5438 | sp|Q3A1V7|HSLV\_PELCD | MDIRGTTIICVRHQGQVTMAGDGQVTLGNTVMKHGARKIRRMYEGRILAGFAGSTADAFTLFEKFEAKVQEFHGNLPKAAVALAKDWRTDQILRKLEALLIVADTNTTLVLSGAGDVIEPDDGIAAIGSGGSYALAAARALTRHAGLPSEQIATEALRIAGEICIYTNDHISSESLP |
| 5439 | sp|Q02EW3|HSLU\_PSEAB | MSMTPREIVHELNRHIIGQDDAKRAVAIALRNRWRRMQLPAELRAEVTPKNILMIGPTGVGKTEIARRLARLANAPFIKVEATKFTEVGYVGRDVESIIRDLADAAVKMLREQEIQKVKYRAEDAAEERILDALLPAARPAMGFGDEPAREDSNTRQLFRKRLREGQLDDKEIDIEVADNPAGVEIMAPPGMEEMTNQLQNLFSGMSKGKKKTRKLKVAEALKLIRDEEAVRLVNEEELKARALEAVEQHGIVFIDEIDKIAKRANAGGADVSREGVQRDLLPLIEGCTVNTKLGMVKTDHILFIASGAFHLSKPSDLVPELQGRLPIRVELKALSPNDFERILTEPHASLTEQYRELLKTEGLAIEFAEDGIKRLAEIAWQVNEKTENIGARRLHTLLERLLEEVSFSAADLASEHSDKPILIDAGYVNSHLGELAEDEDLSRYIL |
| 5440 | sp|Q9GKX7|HS90A\_HORSE | MPEETHTQDQPMEEEEVETFAFQAEIAQLMSLIINTFYSNKEIFLRELISNSSDALDKIRYESLTDPSKLDSGKELHINLIPNKQDRTLTIVDTGIGMTKADLINNLGTIAKSGTKAFMEALQAGADISMIGQFGVGFYSAYLVAEKVTVITKHNDDEQYAWESSAGGSFTVRTDTGEPMGRGTKVILHLKEDQTEYLEERRIKEIVKKHSQFIGYPITLFVEKERDKEVSDDEAEEKEDKEEEKEKEEKESDDKPEIEDVGSDEEEEEKKDGDKKKKKKIKEKYIDQEELNKTKPIWTRNPDDITNEEYGEFYKSLTNDWEDHLAVKHFSVEGQLEFRALLFVPRRAPFDLFENRKKKNNIKLYVRRVFIMDNCEELIPEYLNFIRGVVDSEDLPLNISREMLQQSKILKVIRKNLVKKCLELFTELAEDKENYKKFYEQFSKNIKLGIHEDSQNRKKLSELLRYYTSASGDEMVSLKDYCTRMKENQKHIYYITGETKDQVANSAFVERLRKHGLEVIYMIEPIDEYCVQQLKEFEGKTLVSVTKEGLELPEDEEEKKKQEEKKTKFENLCKIMKDILEKKVEKVVVSNRLVTSPCCIVTSTYGWTANMERIMKAQALRDNSTMGYMAAKKHLEINPDHSIIETLRQKAEADKNDKSVKDLVILLYETALLSSGFSLEDPQTHANRIYRMIKLGLGIDEDDPTADDSSAAVTEEMPPLEGDDDTSRMEEVD |
| 5441 | sp|Q60432|HYOU1\_CRIGR | MAATVRRQRPRRLLCWTLVAVLLADLLALSDTLAVMSVDLGSESMKVAIVKPGVPMEIVLNKESRRKTPVTVTLKENERFLGDSAAGMAIKNPKATLRYFQHLLGKQADNPHVALYRDRFPEHELNIDPQRQTVRFQISPQLQFSPEEVLGMVLNYSRSLAEDFAEQPIKDAVITVPAFFNQAERRAVLQAARMAGLKVLQLINDNTATALSYGVFRRKDINSTAQNVMFYDMGSGTTVCTIVTYQTVKTKEAGMQPQLQIRGVGFDRTLGGLEMELRLREHLAKLFNEQRRGQKAKDVRENPRAMAKLLREANRLKTVLSANADHMAQIEGLMDDVDFKAKVTRVESEELCADLFERVPGPVQQALQSAEMSLDEIEQVILVGGATRVPKVQEVLLKAVGKEELGKNINADEAAAMGAVYQAAALSKAFKVKPFVVRDAVIYPILVEFTREVEEEPGVRSLKHNKRVLFSRMGPYPQGKVITFNRYSHDFNFHINYGDLGFLGPEDLRVFGSQNLTTVKLKGVGESLKKYPDYESKGIKAHFNLDESGVLSLDRVESVFETLVEDSPEEESTLTKLGNTISSLFGGGTSSDAKENGTDAVQEEEESPTEGSKDEPGEQGDLKEETEAPVEDTSQPPPPEPKGDAAPEGEKPDEKESGGKSEAQKPEEKGQSGPEGVPPAPEEEKKQKPARKQKMVEEIGVELAVLDLPDLPEDELARSVKKLEDLTLRDLEKQEREKAANSLEAFIFETQDKLYQPEYQEVSTEEQREEISGKLSATSTWLEDEGFGATTVMLKEKLAELKKLCQGLFFRVEERRKWPERLSALDNLLNHSSIFLKGARLIPEMDQIFTEVEMTTLEKVINDTWAWKNATLAEQAKLPATEKPVLLSKDIEAKMMALDREVQYLLNKAKFTKPRPRPKDKNGTRTEPPLNATAGDQEEKVIPPAGQPEEAKPILEPDKEETTTEPTDSEPLELGGPGAESEPKEQTAGQKRSSKNDEL |
| 5442 | sp|Q3YV47|HSLU\_SHISS | MSEMTPREIVSELDKHIIGQDNAKRSVAIALRNRWRRMQLNEELRHEVTPKNILMIGPTGVGKTEIARRLAKLANAPFIKVEATKFTEVGYVGKEVDSIIRDLTDAAVKMVRVQAIEKNRYRAEELAEERILDVLIPPAKNNWGQTEQQQEPSAARQAFRKKLREGQLDDKEIEIDLAAAPMGVEIMAPPGMEEMTSQLQSMFQNLGGQKQKARKLKIKDAMKLLIEEEAAKLVNPEELKQDAIDAVEQHGIVFIDEIDKICKRGESSGPDVSREGVQRDLLPLVEGCTVSTKHGMVKTDHILFIASGAFQIAKPSDLIPELQGRLPIRVELQALTTSDFERILTEPNASITVQYKALMATEGVNIEFTDSGIKRIAEAAWQVNESTENIGARRLHTVLERLMEEISYDASDLSGQNITIDADYVSKHLDALVADEDLSRFIL |
| 5443 | sp|P82995|HS90A\_RAT | MPEETQTQDQPMEEEEVETFAFQAEIAQLMSLIINTFYSNKEIFLRELISNSSDALDKIRYESLTDPSKLDSGKELHINLIPNKQDRTLTIVDTGIGMTKADLINNLGTIAKSGTKAFMEALQAGADISMIGQFGVGFYSAYLVAEKVTVITKHNDDEQYAWESSAGGSFTVRTDTGEPMGRGTKVILHLKEDQTEYLEERRIKEIVKKHSQFIGYPITLFVEKERDKEVSDDEAEEKEEKEEEKEKEEKESDDKPEIEDVGSDEEEEEKKDGDKKKKKKIKEKYIDQEELNKTKPIWTRNPDDITNEEYGEFYKSLTNDWEEHLAVKHFSVEGQLEFRALLFVPRRAPFDLFENRKKKNNIKLYVRRVFIMDNCEELIPEYLNFIRGVVDSEDLPLNISREMLQQSKILKVIRKNLVKKCLELFTELAEDKENYKKFYEQFSKNIKLGIHEDSQNRKKLSELLRYYTSASGDEMVSLKDYCTRMKENQKHIYFITGETKDQVANSAFVERLRKHGLEVIYMIEPIDEYCVQQLKEFEGKTLVSVTKEGLELPEDEEEKKKQEEKKTKFENLCKIMKDILEKKVEKVVVSNRLVTSPCCIVTSTYGWTANMERIMKAQALRDNSTMGYMAAKKHLEINPDHSIIETLRQKAEADKNDKSVKDLVILLYETALLSSGFSLEDPQTHANRIYRMIKLGLGIDEDDPTVDDTSAAVTEEMPPLEGDDDTSRMEEVD |
| 5444 | sp|Q4L6T2|HRCA\_STAHJ | MITQRQLSILNAIVEDYVDLGQPIGSKALIDRHHLDVSPATIRNEMKQLEDLNFLEKTHSSSGRSPSEEGFRLYVDQLLKQTSRQNKNKIQRLNQLLIENHYDISSALSYFANELSMKSHYATLVVRPKHSEEMINNVHLIKANDSIMILVIIYNSGHVEHFHLNSALELSSDRLIAISNFISNNNIEISAKLSDKIRSFANSNEENQFINDIVKMINSHISKQSNSIFLGGKVKLIDALNESNVSSIQPILQYLESERITELLQTISTNDINVKIGKEIDESLSDISIVTSQYHFDNSLKGQIAVIGPTAMRYQNVIQLLNQIW |
| 5445 | sp|Q8GW48|HSBP\_ARATH | MDGHDSEDTKQSTADMTAFVQNLLQQMQTRFQTMSDSIITKIDDMGGRINELEQSINDLRAEMGVEGTPPPASKSGDEPKTPASSS |
| 5446 | sp|B9MEI9|HRCA\_ACIET | MLDDRSKLLLKALVERYIAEGQPVGSRTLSRASGLELSPATIRNVMADLEDLGLIASPHTSAGRVPTAKGYRLFVDTMLTVQQEQLPTVQLMPEQPQKVIANAAHLLSSLSQFVGVVMAPRRASVFRHIEFLRLSEKRFLVIIVSPDGDVQNRVIFTEADYSQSQLVEAANFLNANYAGLTMEQVRERLKLEVDKLRGEIAALMQAAVSVDSEAMSGSQDEVVFSGERNLLSVSDFSSDMSHLRRAFDLFEQKTQILRLLDISSRAEGVRIFIGGESQVVPFEELSVVSAPYEVDGQVVGTLGVIGPTRMPYDRMIQIVDITSKLVSNALSHRK |
| 5447 | sp|Q12DY9|HRCA\_POLSJ | MLDDRARLLLKALVERYIADGQPVGSRTLSRASGLELSPATIRNVMSDLEELGLIVSPHTSAGRIPTARGYRLFVDTMLTTQRDQLSAGHITAPRLAPDQPQKVISNAAHMLSSLSQFVGVVMAPRRTSVFRHIEFLRLSEKRFLVIIVSPDGDVQNRVIFTEADYTQSQLIEASNFLNSHYAGMAIEEVRERLQNEVEALRGEIATLMQAAVQVSSEAIESRDEVVVSGERNLLAVSDFSSDMGNLRKLFDLFEQKAQLMRLLDVSSRAEGVRIYIGGESQVIPYQELSVVTAPYEVDGQVVGTLGVIGPMRMPYEKMIQIVDITSKLVSTALSHSK |
| 5448 | sp|Q93R29|HRCA\_TETHA | MLTQRQDNILHQIIHNYTNLGKPIGSKTLMEEGIAASSATIRNEMKTLEEYGLLVKPHSSSGRIPSLKGYRYYVDYLLEPEKLKKSEVDVMQQSLGKDFHEINDIIEQSAKILSKLTSYTALSIGPDVSNRKLTGFKMVPLNNRQVIAIIVTDKGNVENQVFSIPKSVDSEDLEKMVRIINDKLIGEPLLIVYQRLGTEIPMILHKYFQTTEGILDLFNNMLSEAFEEKIFVGGQMNLLNSDQIQNIDQFKSMLFMENSKQLNELLSTKDQPIQIRIGSELGNDLLSDMSLIQANYEIKDHGNGTIALLGSASMPYSKMLSLLDVFRQELAETLDDYYRSIDSFG |
| 5449 | sp|Q2S307|DNAK\_SALRD | MGKVIGIDLGTTNSVVAVMEGDDPEVIENAEGSRTTPSVVAYKDDGERLVGAPAKRQAITNPENTVSSIKRFMGRFYDEVEDEIEEVPYEVVRGENDTARVQIGDRKYTPQEISAVVLQKLKQTAEDYLGQEVTDAVITVPAYFNDAQRKATQEAGEIAGLNVQRIINEPTAASLAYGLDDESDQVVAVYDLGGGTFDVSILELGDGVFEVNATYGDTHLGGDNFDKRLIDHIADEFEQDTGIDLRDDPMALQRLKEAAEEAKIELSSAKTTTINLPFITATDEGPQHLNMDLNRATFENLIEDLVEKTVPQMEKALDDAGHSKSDVDEVILVGGSTRVPLVQETVEDFFGKQANKSVNPDEVVSLGAAVQGGVLSGDVDDVLLLDVTPLNLGIETLGGVMTTLIEANTTIPTKESEVFSTAADNQTSVEVHVLQGDREMAKDNRTLGRFHLDGIPPAPRGTPQIEVTFDINADGILNVSAEDKDTGKEQSIRVEANSGLSDEEIEKMKEEAEQHAEEDERRKERADTINEANSMAYSVEQGLEEYGDKIPEDKRSTLQEALDALNEELETASADEDITALEDALEELNAAWSAAGEEIREAQQQQAQQGAAAGAGAGAAGAGAAAGAEGPAGGPTGGPASGNGAADSDEEDVQDADYEVVDEGDDE |
| 5450 | sp|C4L8Y4|DNAJ\_TOLAT | MAKRDYYEILGVERSADEREIKKAYKRLAMKFHPDRNPDNPESEEKFKEAKEAYEILSDAQKRAAYDKFGHAGVDPNQAGPGGFGGGADFGDVFGDIFGDIFGGGRRSQRAARGSDLRYNMELTLEEAVRGVSKEIKVPTLVECDECHGSGARTGTSAQTCPTCHGSGQVQMRQGFFAVTQACPHCHGKGKIITDPCRKCHGDGRVQKTKTLSVKIPAGVDTGDRIRLAGEGEAGEFGAPAGDLYVQVHVKEHPIFVRDGNNLYCEIPISFTTAALGGEVAVPTLDGRVMLKIPVETQTGRMFRLRGKGVRSLRSGAEGDLLCKAVVETPVKLSDEQKELLKQLEDSLNGSGVKTHKPKADGFFEGVKRFFDDLTG |
| 5451 | sp|Q5N1V0|DNAK1\_SYNP6 | MGRVVGIDLGTTNSVIAVMEGGKPMVIANAEGVRTTPSVVGVSKTGERLVGELARRQLVLNPRNTFANIKRFIGRRYDELTDESKRVPYTVRRDPEGNVRIVCPQLSREFAPEEVAAMILRKLAEEASRYLGEPVTGAVITVPAYFNDSQRQATRDAGRIAGLEVKRILNEPTAASLAYGLDRRDNQTILVFDLGGGTFDVSVLEVGNGVFEVKATSGDTQLGGNDFDRRIVDWLAEQFLEAEGIDLRRDRQALQRLIEAAEKAKIELSGVSVTDINLPFITATEDEPKHLETRLTRSEFEALCEDLLERMMRPLRRALKDARLQPQDIDEVVLVGGSTRMPMVQQLVRSLIGREPNQNVNPDEVVAIGAAIQAGILAGEVKDILLLDVTPLSLGLETIGGVMKKLIPRNTAIPVRRSDIFSTAENNQTMVEIHILQGERQLAEGNKSLGRFKLTGIPPAPRGVPQVQVSFDIDANGILQVSALDKTTGREQTVTIQGASTLSQEEVKRMMKDAELYAQQDRQLKARIEKRNRAQTLIAQSERRLREISLDFGLYFAESKRRRIESTIRELKDYLERQDDRGLDLALAELQDALFDLNQETAARLRDEEGEGFFEPLKQTFASLRGDGNRDFERSWDDRGGDRWDADPWDRSRRSTPSYGYDDRRSPVSDPYRGERWVEEQTSMSRREPVRDRNGGNGSVRPEPAPRRGRPTWEEDQPPRRDRSSQPPAKPASGRRWNDGWDDDDDEWF |
| 5452 | sp|B1KZN7|DNAK\_CLOBM | MAKIIGIDLGTTNSCVSVMEGGEPVVIPNAEGSRTTPSVVSFQANGERLIGQVAKRQAITNPEKTIISIKRYMGTDHKVNIDSTEYTPQQISAMVLQKLKADAEAYLGEKVTQAVITVPAYFNDSQRQATKDAGKIAGLEVLRIINEPTAASLAYGLDKMDTNEKILVYDLGGGTFDVSILELGDGVFEVKATNGDTKLGGDDFDQKLIDYIAETFKAENGIDLRNDKMAIQRLKEAAEKAKIELSSATQTNINLPFITADATGPKHIDMNLTRAKFNELTHDLVQRTLEPIKKSLEGSGYAMSDIDKIIMVGGSTRIPAVQDAVKDFTGKELSKGVNPDEVVAMGAAIQAGVLTGEVKDVLLLDVTPLTLGIETFGGVSTTLIEKNTTIPTRKSQVFSTAADGQTSVEIHVVQGERSMAADNKTLGRFTLSGIAPAPRGIPQIEVTFDIDANGIVNVSAKDKGTGKEANITITASTNLTDDEIEKAVNEAKKFEAEDKKRKESIEVKNNADQIVYQTEKTLTDLGDKVSAEDKATIEEKVKAVKDVKEGEDLEAIKKATEDLTQTFYGISSKIYQQANPEGAQGAGFDPNNMGGANADNASAGNDKKDDNVVDADFKVEDDK |
| 5453 | sp|Q3KIA0|DNAK\_PSEPF | MGKIIGIDLGTTNSCVSVLENGKAKVIENAEGARTTPSIIAYANDGEILVGQSAKRQAVTNPHNTLFAVKRLIGRRFEEEVVQKDIKLVPYKIVKANNGDAWVEASGKQMAPPQISAEVLKKMKKTAEDYLGEAVTEAVITVPAYFNDSQRQATKDAGRIAGLDVKRIINEPTAAALAYGMDKAKGDHTVIVYDLGGGTFDVSVIEIAEVDGEHQFEVLATNGDTFLGGEDFDMRLIDYLVDEFKKESGMDLKNDPLALQRLKEAAEKAKIELSSSQSTDVNLPYITADATGPKHLNVKISRAKLESLVEDLVTRTIEPCRIALKDAGIDASKIDDVILVGGQTRMPMVQKAVSDFFGKEARKDVNPDEAVAMGAAIQGAVLAGDVKDVLLLDVSPLTLGIETMGGVMTALIEKNTTIPTKKSQVFSTADDNQGAVTIHVLQGERKQAAQNKSLGKFDLADIPPAPRGVPQIEVTFDIDANGILHVGAKDKATGKEQKITIKANSGLSDEEIQKMVRDAELNAEEDRKFEELAAARNQGDALVHSTRKMIADAGDKVTAEEKTAIEAAVVALEAAVKGDDKAAIDAKVEELSKVSAPVAQKMYAEQAQPAEGAAPHDEKAEKADDVVDAEFEEVKDHK |
| 5454 | sp|Q68XI2|DNAK\_RICTY | MGKVIGIDLGTTNSCVAVMEGKEPKVIDNAEGERTTPSIIAFANSERLVGQPAKRQAVTNPRNTIYAVKRLIGRNFTDPMVRKDQGLVPYNIVKADNGDAWVEADNNKYSPSQISAFILQKMKETAENYLGEKVTQAVITVPAYFNDAQRQATKDAGKIAGLEVLRIINEPTAAALAYGFEKSSSKTIAVYDLGGGTFDVSILEISDGVFEVKSTNGDTFLGGEDFDTRILNHLIDVFKKDSGIDLSKDPLALQRLKEAAEKAKKELSSTSATDINLPYITADSTGPKHLNIKFTRAELEKLVDDLIEKTIEPCRQALKDAGFKPTDIQEVVLVGGMTRMPKVQEAVKKFFGREPHKGVNPDEVVALGAAIQGGVLNKEVTDILLLDVTPLSLGIETLGGVFTRLIDRNTTIPSKKSQVFSTADDNQHAVTIRVFQGEREMAKDNKLLGQFNLEGIPPAPRGVPQIEVTFDIDANGIVHVSAKDKASGKEQKVTIQASGGLSDSEIEQMVKDAEHNADEDKKRKELIETKNAADSLVYSTEKTLREYGDKLSSEEKGAVEEALASLKSALESEDASLIKEKTNNLTAANMKIGETMYKAQTENQHSEANTVNDEKVVDADFQDVDKK |
| 5455 | sp|Q5PDJ5|DNAK\_SALPA | MGKIIGIDLGTTNSCVAIMDGTQARVLENAEGDRTTPSIIAYTQDGETLVGQPAKRQAVTNPQNTLFAIKRLIGRRFQDEEVQRDVSIMPYKIIGADNGDAWLDVKGQKMAPPQISAEVLKKMKKTAEDYLGEPVTEAVITVPAYFNDAQRQATKDAGRIAGLEVKRIINEPTAAALAYGLDKEVGNRTIAVYDLGGGTFDISIIEIDEVDGEKTFEVLATNGDTHLGGEDFDTRLINYLVDEFKKDQGIDLRNDPLAMQRLKEAAEKAKIELSSAQQTDVNLPYITADATGPKHMNIKVTRAKLESLVEDLVNRSIEPLKVALQDAGLSVSDINDVILVGGQTRMPMVQKKVAEFFGKEPRKDVNPDEAVAIGAAVQGGVLTGDVKDVLLLDVTPLSLGIETMGGVMTPLITKNTTIPTKHSQVFSTAEDNQSAVTIHVLQGERKRASDNKSLGQFNLDGINPAPRGMPQIEVTFDIDADGILHVSAKDKNSGKEQKITIKASSGLNEEEIQKMVRDAEANAESDRKFEELVQTRNQGDHLLHSTRKQVEEAGDKLPADDKTAIESALSALETALKGEDKAAIEAKMQELAQVSQKLMEIAQQQHAQQQAGSADASANNAKDDDVVDAEFEEVKDKK |
| 5456 | sp|B2HPS1|DNAK\_MYCMM | MARAVGIDLGTTNSVVAVLEGGDPVVVANSEGSRTTPSVVAFARNGEVLVGQPAKNQAVTNVDRTIRSVKRHMGGDWSIEIDDKKYTAPEISARVLMKLKRDAEAYLGEDIADAVITVPAYFNDAQRQATKDAGQIAGLNVLRIVNEPTAAALAYGLDKGEKEQTILVFDLGGGTFDVSLLEIGEGVVEVRATSGDNHLGGDDWDDRVVEWLVDKFKGTSGIDLTKDKMAMQRLREAAEKAKIELSSSQSTSINLPYITVDADKNPLFLDEQLTRAEFQRITQDLLDRTRKPFQSVIADTGISVSDIDHVVLVGGSTRMPAVTELVKELTGGKEPNKGVNPDEVVAVGAALQAGVLKGEVKDVLLLDVTPLSLGIETKGGVMTKLIERNTTIPTKRSETFTTADDNQPSVQIQVYQGEREIAAHNKLLGSFELTGIPPAPRGVPQIEVTFDIDANGIVHVTAKDKGTGKENTIRIQEGSGLSKDEIDRMIKDAEAHAAEDHKRREEADVRNQAETLVYQTEKFVKEQREAEGGSKVPEDTLNKVDAAVAEAKSALAGTDIAAIKSAMEKLGEESQALGQAIYEATQADAAAAGAPGGQPGGAEPGADDVVDAEVVDDDQESK |
| 5457 | sp|Q6F6N3|DNAK\_ACIAD | MAKIIGIDLGTTNSCVAVLEGDKVKVIENAEGTRTTPSIVAYKDSEILVGQSAKRQAVTNPKNTLFAIKRLIGRRYEDQAVQKDIGLVPYKIIKADNGDAWVEVNDKKLAPQQVSAEILKKMKKTAEDYLGETVTEAVITVPAYFNDAQRQATKDAGRIAGLDVKRIINEPTAAALAFGMDKKEGDRKVAVYDLGGGTFDVSIIEIADLDGDQQIEVLSTNGDTFLGGEDFDTALIDYLVEEFKKEQSVNLKNDPLALQRLKEAAEKAKIELSSSSSTEINLPYITADATGPKHLVINVTRAKLEGLVADLVARTIEPCRIALKDAGLSTSDISDVILVGGQSRMPMVQQKVQEFFGKEPRKDVNPDEAVAIGAAIQGAVLSGDKTDVLLLDVTPLTLGIETMGGVLTPIIEKNTTIPAKKSQVFSTAADNQPAVDISVYQGERKMAQQNKLLGNFQLGDIPPAPRGVPQIEVSFDINADGILKVSAKDKSTGKEQSIQIKANSGLSDAEIEAMIKDAEANAEEDRKFEELAKARNEADALVSSSNKAVKDLGDKVTEDEKTAITTAVSELEAATKENDVEDIKAKTEALQNILMPITQRAYEQAQGAGGAQGFDPNAFQGGDAGQQQKADDGVVDAEFTEVKDDKK |
| 5458 | sp|Q84BU4|DNAK\_LACAC | MSKVIGIDLGTTNSAVAVLEGKEPKIITNPEGNRTTPSVVAFKDGEIQVGEVAKRQAITNPNTIVSIKRHMGEADYKVKVGDKSYTPQEISAFILQYIKKFSEDYLGEEVKDAVITVPAYFNDAQRQATKDAGKIAGLNVQRIINEPTASALAYGLDKDDDDEKVLVYDLGGGTFDVSVLQLGDGVFQVLSTNGDTHLGGDDFDNRIMDWLIKNFKDENGVDLSKDKMAMQRLKDASEKAKKDLSGVSSTHISLPFISAGESGPLHLEADLTRAKFDELTNDLVEKTKIPFDNALKDAGLTVNDIDKVILNGGSTRIPAVQKAVKEWAGKEPDHSINPDEAVALGAAIQGGVISGDVKDIVLLDVTPLSLGIETMGGVFTKLIDRNTTIPTSKSQIFSTAADNQPAVDVHVLQGERPMAADDKTLGRFELTDIPPAPRGVPQIQVTFDIDKNGIVNVSAKDMGTGKEQKITIKSSSGLSDEEIKRMQKDAEEHAEEDKKRKDEADLRNEVDQLIFTTEKTLKETKGKVSDEDTKKVQEALDDLKKAQKDNNLDEMKEKKDALSKAAQDLAVKLYQQNGGAQGAAGQAGPQGGNPNDGNNGGAQDGEFHKVDPNK |
| 5459 | sp|Q1LJ82|DNAJ\_CUPMC | MAKRDYYEVLGVGKNASDDEIKKAYRKLAMKHHPDRNPDNKEAEEKFKEVKEAYEMLSDPEKKAAYDQYGHAGVDPNMAGGFGGGGFGGGGFAEAFGDIFGDIFGQAAGGGRRGGGPQAYRGADLRYSMEISLEQAAHGHEAQIRVPHWDDCEHCHGNGAEPGSSVETCPTCNGVGQVRVSQGFFTMQQTCPKCHGSGKFIPKPCTKCHGQGKLKSQKTLEVKIPAGIDEGMRIRSSGNGEPGINGGPPGDLYVEVHIKQHPVFERDGDDLHCQMPISFATAALGGDIEVPTLGGRASFPVPEGTQAGKTFRLRGKGIKGVRSGYPGDLYVHVNVETPVKLTEAQKDILRQFDRSVHEGGSRHSPQEQSWLDKVKSFFS |
| 5460 | sp|Q70WY6|DNAJ\_FUSNP | MAKRDYYEVLGVDKNASENDIKKAYRKAAMKYHPDKFANATDAEKKDAEEKFKEINEAYQVLSDNEKKQQYDQFGHAAFEQGGAGFGGGFNAGGFDFGDIFGDNIFGGGGGFGGFEGFSGFGGSSRRSYVEPGNDLRYNLEITLEEAAKGVEKTIKYKRTGKCEHCHGTGAEDDKMKTCPTCNGQGTIKTQQRTILGVMQSQSVCPDCHGTGKVPEKKCKHCRGTGTAKETVEKKINVPAGIDDGQKLKYAGLGEASQSGGPNGDLYIVIRIKPHDIFIRQGDNLYCEVPISYSTAVLGGEVEVPTLNGKKTVKVPEGTESGKLLKVSGEGIKSLKGYGKGDIIVKFTIETPKKLTDKQKELLQKFEESLNDKNYEQKTSFMKRLKKIFKDIID |
| 5461 | sp|Q1JKD6|DNAK\_STRPC | MSKIIGIDLGTTNSAVAVLEGTESKIIANPEGNRTTPSVVSFKNGEIIVGDAAKRQAVTNPDTVISIKSKMGTSEKVSANGKEYTPQEISAMILQYLKGYAEDYLGEKVEKAVITVPAYFNDAQRQATKDAGKIAGLEVERIVNEPTAAALAYGMDKTDKDEKILVFDLGGGTFDVSILELGDGVFDVLATAGDNKLGGDDFDQKIIDFLVAEFKKENGIDLSQDKMALQRLKDAAEKAKKDLSGVTQTQISLPFITAGSAGPLHLEMSLSRAKFDDLTRDLVERTKTPVRQALSDARLSLSEIDEVILVGGSTRIPAVVEAVKAETGKEPNKSVNPDEVVAMGAAIQGGVITGDVKDVVLLDVTPLSLGIETMGGVFTKLIDRNTTIPTSKSQVFSTAADNQPAVDIHVLQGERPMAADNKTLGRFQLTDIPAAPRGIPQIEVTFDIDKNGIVSVKAKDLGTQKEQHIVIKSNDGLSEEEIDRMMKDAEANAEADAKRKEEVDLKNEVDQAIFATEKTIKETEGKGFDTERDAAQSALDELKAAQESGNLDDMKAKLEALNEKAQALAVKMYEQAAAAQQAAQGAEGAQANDSANNDDVVDGEFTEK |
| 5462 | sp|A2X899|DRE1G\_ORYSI | MDVSAALSSDYSSGTPSPVAADADDGSSAYMTVSSAPPKRRAGRTKFKETRHPVFKGVRRRNPGRWVCEVREPHGKQRIWLGTFETAEMAARAHDVAALALRGRAACLNFADSPRRLRVPPIGASHDDIRRAAAEAAEAFRPPPDESNAATEVAAAASGATNSNAEQFASHPYYEVMDDGLDLGMQGYLDMAQGMLIDPPPMACDPAVGGGEDDNDGEVQLWSY |
| 5463 | sp|P0AEJ5|ENVZ\_SHIFL | MRRLRFSPRSSFARTLLLIVTLLFASLVTTYLVVLNFAILPSLQQFNKVLAYEVRMLMTDKLQLEDGTQLVVPPAFRREIYRELGISLYSNEAAEEAGLRWAQHYEFLSHQMAQQLGGPTEVRVEVNKSSPVVWLKTWLSPNIWVRVPLTEIHQGDFSPLFRYTLAIMLLAIGGAWLFIRIQNRPLVDLEHAALQVGKGIIPPPLREYGASEVRSVTRAFNHMAAGVKQLADDRTLLMAGVSHDLRTPLTRIRLATEMMSEQDGYLAESINKDIEECNAIIEQFIDYLRTGQEMPMEMADLNAVLGEVIAAESGYEREIETALYPGSIEVKMHPLSIKRAVANMVVNAARYGNGWIKVSSGTEPNRAWFQVEDDGPGIAPEQRKHLFQPFVRGDSARTISGTGLGLAIVQRIVDNHNGMLELGTSERGGLSIRAWLPVPVTRAQGTTKEG |
| 5464 | sp|A9ILE9|GRPE\_BART1 | MSDEKNKFTDASFENCDLKNPADRNTLKQAADEFLKTHKTEAREDVEEESKEVDPLASLQDENKELKNQLLRLAADMENLRRRTARDVADARAYSIANFARDMLSVSDNLNRALEAIPEGARESDAGLKSLAEGVEMTERAMMAALERHGVQKIHPEGQKFDPHFHQAMFEIPNADVPDNTVQQVVQAGYIIGERVLRPAIVGVAKGGTKEASIETDKASHQ |
| 5465 | sp|Q5P1H4|GRPE\_AROAE | MQENKQPSEIQGELPQPPDGESVPPQPTNEQAPPDTDTMPRIEETLRQLELKAAEHHDAWLRARAETENVRRRAQEDIAKASKFAAEKFAAAMLPVKDSLEAALTIEKQTLESLREGVELTLKQLNAAFQNGGLTEEDPAGQKFDPNKHQAISAIEAEGEPNTVLNVLQKGYLLHGRVIRPAMVMVSKAKGT |
| 5466 | sp|A3MNA1|GRPE\_BURM7 | MENTQENPTDQTTEETGREAQAAEPAAQAAENAAPAAEAALAEAQAKIAELQESFLRAKAETENVRRRAQDDVAKAHKFAIEGFAENLLPVLDSLEAAVGDTSGDLAKVREGVELTLRQLTSALEKGRVAALNPVGEKFDPHLHQAISMVPADQEPNTVVAVLQKGYTIADRVLRPALVTVAQPK |
| 5467 | sp|A7Z6W2|GRPE\_BACVZ | MSEEKQTAEQVEAAEQEEVTEQAEQAASQEQHEETAGQEEALQHQIDELQGLLDEKENKLLRVQADFENYKRRSRLEMEAAQKYRSQNVVTEILPALDNFERALQVEAESEQTKSLLQGMEMVRRQLMDALEKEGVEAIEAVGQEFDPNLHQAVMQVEDENFGSNIVIEELQKGYKLKDRVIRPSMVKVNQ |
| 5468 | sp|A3MZ85|GRPE\_ACTP2 | MTAQNENAQAQAEQVEVANEAQLEQTAEIQQEQPVEAELAAAYARINELETYVAEADNREKDIQLRAQAEIQNIRRRAEQDVEKAHKFALEKFSKELLTVVDNLERGLNALDTAVTDEKTQALVDGVEMTHKEFISTLAKFGVEAVGVVGEAFNPEVHEAISMQPAEGIEANHISVVLQKGYTLQGRVLRPAMVMVAG |
| 5469 | sp|Q64VI6|GRPE\_BACFR | MDPKEKKTKQEEELKVDDIQDTVEGQSQNEEATEATEPLTAEEKLEKELKEAQAQIEDQKDKYLRLSAEFDNYRKRTVKEKAELILNGGEKSIKSILPVIDDMERALTTMETATDVNAVKEGVELIYNKFLSILSQDGVKVIETKDQPLDTDYHEAIAVIPAPTEEQKGKILDCVQTGYTLNGKVIRHAKVVVGE |
| 5470 | sp|F4I907|GLYR2\_ARATH | MPLVSLSFASSSSKAMALCSICPRIPLRFRPKPISPFLSKPQICLAYRVYSSLQSTTPSTRDELGTVSIGFLGMGIMGSPMAQNLIKAGCDVTVWNRTKSKCDPLVGLGAKYKSSPEEVTATCDLTFAMLADPESAIDVACGKNGAIFGISSGKGYVDVSTVDVASSILISKQIKDTGALFLEAPVSGSKKPAEDGQLIFLTAGDKPLYEKAAPFLDIMGKSKFYLGEVGNGAAMKLVVNMIMGSMMASFAEGILLSQKVGLDPNVLVEVVSQGAINAPMYSLKGPSMIKSVYPTAFPLKHQQKDMRLALGLAESVSQSTPIAAAANELYKVAKSYGLSDEDFSAVIEALKAAKSREA |
| 5471 | sp|Q83MQ1|GRPE\_TROWT | MTKSNETERMEESEETHSSDIRSASESDHASGSDHTESADEIPTADAEQGELEQLEKLKDDLARERAAFHNFRMARAKQAEIERDRTRSEVIRVILPVLDDFARIEKHSTLDDPFKAVVTKLRSAMEKIGLTAFGNPGDPFNPELHEALFQNPSPDVQTETVQDVIEAGYCLGETVIRAAKVVVQVPNG |
| 5472 | sp|P46422|GSTF2\_ARATH | MAGIKVFGHPASIATRRVLIALHEKNLDFELVHVELKDGEHKKEPFLSRNPFGQVPAFEDGDLKLFESRAITQYIAHRYENQGTNLLQTDSKNISQYAIMAIGMQVEDHQFDPVASKLAFEQIFKSIYGLTTDEAVVAEEEAKLAKVLDVYEARLKEFKYLAGETFTLTDLHHIPAIQYLLGTPTKKLFTERPRVNEWVAEITKRPASEKVQ |
| 5473 | sp|Q2FXZ1|GRPE\_STAA8 | MTNKDESVEKNTESTVEETNVKQNIDDSVEQAEESKGHLQDEAIEETSDENVIEEIDPKDQKINELQQLADENEEKYLRLYAEFENYKRRIQKENEINKTYQAQRVLTDILPAIDNIERALQIEGDDETFKSLQKGVQMVHESLINALKDNGLEVIKTEGEAFDPNIHQAVVQDDNPDFESGEITQELQKGYKLKDRVLRPSMVKVNQ |
| 5474 | sp|Q9HJ84|GRPE\_THEAC | MQPTPSEYARTPVRIEMQRSKERNSMVYKEMYNDAQRKYSEALDRISKLTDAYLREKAEVENFIKIKDREVEMSKKNANEKLLKDFLPVLDSIDAAIQAEKDNNLIRIRDQMLGVLSRYGLKPIKAEGSKFDPYLHEVVGVTADGEDGMVKYEVQRGYTLNDGVLRTSKVIVVKR |
| 5475 | sp|Q43472|GRP\_HORVU | MADVEYRCFVGGLRWATDDQSLQNAFSKYGDVIDSKIITDRETGRSRGFGFVTFASDEAMRQAIEAMNGQDLDGRNITVNEAQSRRSDGGGGFGGGGGGYGGQRREGGGGGYGGGGGGYGGGRSGGGGGYGSRDGGGGGYGGGGGGYGGSRGGSGGGNWRE |
| 5476 | sp|Q31HA8|GRPE\_HYDCU | MSDNKTELNEEQHNATAEGEVSEETHQAEDAVEHDLEAMLEEARKEAESQKELALRTLADMENLKRRTRMDVESAHKFALEKFVNELLPVLDSMEMGLDASSKEDVTIDSIREGLDMTFKQFLDVMQKFNVERVNPTGEKFDPQLHEAMTMIPSPDHDSQMVIEVFQKGYVLNDRLVRPARVVVAE |
| 5477 | sp|Q7VEJ7|GRPE\_PROMA | MKEEVSTSNQEDLVADQEVIASEESDLSPKEEKVSESTIDDDDSLNDAELQSNKQTLDNEARLEQLEKEHETLRSQYVRIAADFDNFRKRQSRDQDDLKLQLTCNTLSEILPVVDNFERARQQINPEGEEALTIHRNYQNLYKQLVDVLKKLGVAPMRVVGQSFDPTLHEALLREPSELMVEDMILEELVRGYHLNGRVLRHAQVKVSMGPGPKVDEEDKQIDEDSQADKRDEATTASNELD |
| 5478 | sp|B4T2B9|GRPE\_SALNS | MSSKEQKTPEGQAPEEIIMDQHEEVEAVEPNDSAEQVDPRDEKIANLEVQLAEAQTRERDTVLRIKAEMENLRRRTEQDIEKAHKFALEKFVNELLPVIDSLDRALEVADKANPDMAAMVEGIELTLKSMLDVVRKFGVEVIAETNVPLDPNVHQAIAMVESEEVPAGNVLGIMQKGYTLNGRTIRAAMVTVAKAK |
| 5479 | sp|A5F3L7|HFQ\_VIBC3 | MAKGQSLQDPFLNALRRERIPVSIYLVNGIKLQGQIESFDQFVILLKNTVNQMVYKHAISTVVPARPVSHHSGDRPASDRPAEKSEE |
| 5480 | sp|Q0K967|HFQ\_CUPNH | MSNKGQLLQGPFLNALRKEHVPVSIYLVNGIKLQGNIESFDQYVVLLRNTVTQMVYKHAISTVVPARAVNFRVDDAAEA |
| 5481 | sp|B7ISQ8|HFQ\_BACC2 | MKQSINIQDQFLNQLRKENTFVTLYLLNGFQLRGLIKGFDNFTVLLETEGKQQLIYKHAISTFVPQKNVSIELE |
| 5482 | sp|Q65JA8|HFQ\_BACLD | MKSINIQDQFLNQIRKENTFVTVFLLNGFQLRGQVKGFDNFTVLIESEGKQQLIYKHAISTFAPQKNVQLELE |
| 5483 | sp|B0SJ28|HFQ\_LEPBP | MSAKNNIQDQLLNTARKEKIDLTIYLLNGVPLKGKVVSFDNFTIILENENKQNLVYKHAISTIIPAKPIKLHSEETPKEAGGV |
| 5484 | sp|A5UA77|HFQ\_HAEIE | MAKGQSLQDPYLNALRRERIPVSIYLVNGIKLQGQIESFDQFVILLKNTVNQMVYKHAISTVVPARSVSHHNNNHHTTPTEAVENVETQAE |
| 5485 | sp|C1ENE6|HFQ\_BACC3 | MKQSINIQDQFLNQLRKENTFVTLYLLNGFQLRGLIKGFDNFTVLLETEGKQQLIYKHAISTFVPQKNVSIELE |
| 5486 | sp|C3P4Y3|HFQ\_BACAA | MKQSINIQDQFLNQLRKENTFVTLYLLNGFQLRGLIKGFDNFTVLLETEGKQQLIYKHAISTFVPQKNVSIELE |
| 5487 | sp|A4W5R3|HFQ\_ENT38 | MAKGQSLQDPFLNALRRERVPVSIYLVNGIKLQGQIESFDQFVILLKNTVSQMVYKHAISTVVPSRPVSHHSNNAGGGTGSNFHHGSNAQGSSAPAQDSDETE |
| 5488 | sp|Q9SCW4|HFB2A\_ARATH | MNSPPVDAMITGESSSQRSIPTPFLTKTFNLVEDSSIDDVISWNEDGSSFIVWNPTDFAKDLLPKHFKHNNFSSFVRQLNTYGFKKVVPDRWEFSNDFFKRGEKRLLREIQRRKITTTHQTVVAPSSEQRNQTMVVSPSNSGEDNNNNQVMSSSPSSWYCHQTKTTGNGGLSVELLEENEKLRSQNIQLNRELTQMKSICDNIYSLMSNYVGSQPTDRSYSPGGSSSQPMEFLPAKRFSEMEIEEEEEASPRLFGVPIGLKRTRSEGVQVKTTAVVGENSDEETPWLRHYNRTNQRVCN |
| 5489 | sp|Q7VWL6|HFQ\_BORPE | MSNKGQTLQDPFLNTLRKEHVPVSIYLVNGIKLQGQIESFDQYVVLLRNTVTQMVYKHAISTVVPARAVNFQVEVPAE |
| 5490 | sp|A4IYB0|HFQ\_FRATW | MSRISSLQDPFLNALRKEKVSVSVYLVNGIKLQGQVEAFDQFCIVLRNTVNQMVYKHAISTIVPAKSVRMVYSSFNPYHQNSNDEQDENVDDIHSDDLEIQENEGNIHE |
| 5491 | sp|Q5NRL5|HRCA\_ZYMMO | MSSIPVIELSSRAREIFQLVVESYLGSGLPVGSKTLARQGVNLSPASIRYVLQELETKGLLLSPHISAGRMPTELGLRLFVNGMMQLSEPSEEERSAIEADVIRGHSPKERLVNATTTLSGLSACAGLVLVPKQELVLKQLGFVVLDDNRALAIIVGSDGSVENRVIELSSGFPASALTEASNYINAHFSGYSFSEAKKRLFSQIDLERSELDSAASDLIKRGLAVWSEDSRKRPVLIVRGQSHLLQDASEDLDRAKQLLEELEDKKEIAGLLEKVSESDAAQIFIGSENKLFSLSGSSVIASPYHGEDGHMVGVVAVIGPTRLNYGRIVPMVDFTAKTLSRIIA |
| 5492 | sp|Q03928|HSP18\_CLOAB | MFGMVPFRRNNNGLMRREDFFDKMFDNFFSDDFFPTTTFNGNAGFKVDIKEDDDKYTVAADLPGVKKDNIELQYENNYLTINAKRDDIVETKDDNNNFVRRERSYGELRRSFYVDNIDDSKIDASFLDGVLRITLPKKVKGKDNGRRIDIH |
| 5493 | sp|P41151|HFA1A\_ARATH | MFVNFKYFSFFIRTKMDGVTGGGTNIGEAVTAPPPRNPHPATLLNANSLPPPFLSKTYDMVEDPATDAIVSWSPTNNSFIVWDPPEFSRDLLPKYFKHNNFSSFVRQLNTYGFRKVDPDRWEFANEGFLRGQKHLLKKISRRKSVQGHGSSSSNPQSQQLSQGQGSMAALSSCVEVGKFGLEEEVEQLKRDKNVLMQELVKLRQQQQTTDNKLQVLVKHLQVMEQRQQQIMSFLAKAVQNPTFLSQFIQKQTDSNMHVTEANKKRRLREDSTAATESNSHSHSLEASDGQIVKYQPLRNDSMMWNMMKTDDKYPFLDGFSSPNQVSGVTLQEVLPITSGQSQAYASVPSGQPLSYLPSTSTSLPDTIMPETSQIPQLTRESINDFPTENFMDTEKNVPEAFISPSPFLDGGSVPIQLEGIPEDPEIDELMSNFEFLEEYMPESPVFGDATTLENNNNNNNNNNNNNNNNNNNNTNGRHMDKLIEELGLLTSETEH |
| 5494 | sp|A8YZL0|HSLO\_STAAT | MTHDYIVKALAFDGEIRAYAALTTETVQEAQTRHYTWPTASAAMGRTMTATAMMGAMLKGDQKLTVTVDGQGPIGRIIADANAKGEVRAYVDHPQTHFPLNEQGKLDVRRAVGTNGSIMVVKDVGMKDYFSGASPIVSGELGEDFTYYYATSEQTPSSVGLGVLVNPDNTIKAAGGFIIQVMPGAKDETISKLEKAISEMTPVSKLIEQGLTPEGLLNEILGEDHVQILEKMPVQFECNCSHEKFLNAIKGLGEAEIQNMIKEDHGAEAVCHFCGNKYKYTEEELNVLLESLA |
| 5495 | sp|P19243|HSP11\_PEA | MSLIPSFFSGRRSNVFDPFSLDVWDPLKDFPFSNSSPSASFPRENPAFVSTRVDWKETPEAHVFKADLPGLKKEEVKVEVEDDRVLQISGERSVEKEDKNDEWHRVERSSGKFLRRFRLPENAKMDKVKASMENGVLTVTVPKEEIKKAEVKSIEISG |
| 5496 | sp|A8MGJ3|HTPG\_ALKOO | METKQFKAESKRLLDLMIHSIYTQKEIFLRELISNASDAIDKIYYRALTDEALNFNKEDYYIKIIPDKEKRILRIIDTGIGMTKEELEENLGVIAKSGSLAFKSAHELKDGYDIIGQFGVGFYSSFMVAETVTVISKSIDSESGYKWESTGVDGYTIEPWDKDTVGTEIVLRIKEDTEDENYSEYLEEYRLRNIIKKYSDFIRYPIKMDIHNKRLKENSEDDYEDYVEEQTINSMVPIWRKNKNELTKEDYDNFYMEKRYGFDKPVKHIHISADGAVRYNAILFIPERTPFDYYTKEYEKGLELYSNGVLIMNKCSDLLPDYFSFVKGMVDSEDLSLNISREMLQHDRQLKLIGKNIKNKIKNELMSLLKEDRTQYEAFFEAFGRQLKYGIYSEFGSNKDVLQDLLLFYSSKEKKLVTLDEYISRMSEEQKYIYYATGESKERIEKLPQTELVSEKGFEILYLTEDIDEFAIKVLMSYKDKEFKSVSSSDLGIEDSETEKNTETEELENKELFEKMTALLSDKVTAVRISKRLKSHPVCLANEGEISIEMEKILSAMPNNENIKANKILEINGNHQVFEVLKDAYKNDSEKFGLFTELLYNQALLIEGLPINDPVEFSNSICKLMI |
| 5497 | sp|Q43468|HSOP1\_SOYBN | MAEEAKAKGNAAFSAGDFAAAVRHFSDAIALSPSNHVLYSNRSAAHASLQNYAEALADAQKTVDLKPDWPKAYSRLGAAHLGLRRHRDAFSAYKTGLQLDPDNAALKSGLADAQAAASRPPPTSPFATAFSGPDMWARLTADPTARANLQDPEFVKIMQDIQKDPNKFNLHLSDQRVMHAIGVLLNVKIQTPNHDENDHDADDDVSEDEVVSQPEPEHEPEAAVEVAEEEEEEEKETRDRKGQAQKEKEAGNAAYKKKDFETAIGHYSKALELDDEDISYLTNRAAVYLEMGKFEDCIKDCEKAVERGKELRSDYKMIARALTRKGTALAKMAKCSKDFEPAIEIFQKALTENRNPDTLKKLNEAEKAKKELEQQEYFDPKLADEAREKGNELFKQQKYPEATKHYTEAIKRNPKDAKAYSNRAACYTKLGAMPEGLKDAEKCIELDPTFSKGYTRKGAVQFSMKEYDKALETYREGLKHDPNNQELLDGIRRCVEQINKASRGDFTPEELKERQAKAMQDPEIQSILQDPVMTQVLTDFQENPRAAEEHVKNPMVMNKIQKLISAGIVQMR |
| 5498 | sp|P54649|HTPG\_AGGAC | MSTNQETRGFQSEVKQLLQLMIHSLYSNKEIFLRELISNASDAADKLRFKALSNPDLYAGDGELRVCISFDSEKGTLTVSDNGIGMTREQVIDHLGTIAKSGTKEFLAALGSDQAKDSQLIGQFGVGFYSAFIVADKVTVKTRAAGEPADKGVLWESAGEGDYTVADIEKKSRGTDVILHLRDDEKEFLNEWRLRGIIGKYSDHIGLPVEMLTKEYEDEGKEIGEKWEKINKSDALWTRSKNEISDEEYKEFYKHLSHDFADPLLWAHNKVEGNQEYTSLLYVPSKAPWDLFNREHKHGLKLYVQRVFIMDDAEQFMPNYLRFMRGLIDSNDLPLNVSREILQDNKVTAALRKALTKRSLQMLEKLAKDDAEKYQQFWKEFGLVLKEGPAEDFANKEAIAKLLRFASTHNDSSEQNVSLEDYVSRMKEGQKAIYYITADSYVAARNSPHLELFNKKGIEVLLLSDRIDEWMLSYLTEFDGKPLQSITKADLDLGDLADKEAEEQKAQDESFGSFVERVKTLLGGRVKEVRLTHRLTDTPAVVSTDNDQMTTQMAKLFAAAGQPVPEVKYTFELNPEHHLVKKVAEIADEAQFADWVELLLEQAMLAERGSLENPAAFIKRINKLLG |
| 5499 | sp|A3N786|HTPG\_BURP6 | MTQQTMSFQAEVKQLLHLMIHSLYSNKEIFLRELVSNASDAADKLRFEALENNALYESDPNLRIRLSFDKAARTITIDDNGIGMSRDEAIANLGTIARSGTKEFFSKLSGDQQKDAALIGQFGVGFYSGFIVADRITVETRRAGLPASEGVRWESAGEGDFQVDTIERAARGTTITLHLREGEDELLSSYRLKSIVQKYSDHVALPILMKKEEWDQEKGEMVEKDEDETINQASALWTRAKSEVTDEQYKQFYQHVAHDHQDPLAWTHNRVEGRSEYTQLLFVPSHAPFDLWNRDYRGGLKLYVKRVFIMDDAEQLLPQYLRFIKGVVDSSDLPLNVSREILQESRDVKAIREGVTKRALSMLEELANAEDDAGKEKYKTFWSAFGQVLKEGIGEDHANRERVAKLLRFASTHGDTDAQDVALADYVARMKPEQTKIYYVTADTWQAAKNSPHLEVFRKKGVEVLLLTDRVDEWMLSFLHEFDGKPLASVARGDLDLGALNDDEKKAQEETGEAMKPVVDKMKETLGEKVKDVRVTFRLTDSPSCLVADDNDMSGYLQRMLKAAGQSAPSFQPILEINPEHPLVKALKADGADFGDWCHLLFDQALLAEGGALEDPASFVKRTNALLLSRAA |
| 5500 | sp|A7GEU9|HTPG\_CLOBL | METKQFKAESKRLLDLMINSIYTHKEIFLRELISNSSDAIDKIYYKTLTDDSLKFERDDYYIKVVSDKENRVLKIADTGIGMTKEELENNLGVIAKSGSLQFKKENEVKEGYDIIGQFGVGFYSAFLVSDDVTVISKAFGSNEAYKWNSKGAEGYTIEPCEKEAYGTEIILKIKDNTEEENYDEFLEEYTLKSIIKKYSDFIRYPIKMDLTKTKPKEDNKEEFEEYKEEETINSMVPIWRKNKNELKAEDYENFYAEKHYGFDKPIKYIHTSVDGVVSYNAILFIPETTPYDFYTKEYEKGLELYSSGVLIMNKCGDLLPDYFGFVKGIVDSEDLSLNISREILQHDRQLKLIAKNIKTKIKNELESLLKKERDKYEKFYESFGRQLKYGVYSDFGSNKDILQDLLMFYSSKEKKMVTLAEYVSRMPEDQKYIYYAVGESNERIEKLPQIEGVLDKGYEVLYFTDDIDEFAIKMLMNYKEKEFKSVSSGDLGIEGEEKENTSSSDDKENKELFESMKDILSGKVKDVRASKRLKNHPVCLANEGELSIEMEKVLNAMPNNQNIKADKVLEININHDVFKSLKEAYEGDKEKLKLYTDLLYNQALLIEGLAINDPVEFTNNICKIMK |
| 5501 | sp|Q10092|HSP34\_SCHPO | MVLFMKTVQRPEHISLKSCIPFKSLQRQGIVFRLSVRMVMLADDHSISDSALSDSDKNAFKDKNNDFWKAIKNAKNASDINFSDYSIFFAAGGHGTLFDFPSATNLHKGAAKIYSMGGVIAAVCHGPVILPCIKDSTGFSIVKGKTVTAFNEIAEQQMNLMPTFEKYHFKTLNKLFQEAGSNFVDPQEPFDDFVKTDGKLVTGANPASAASTAKAALNSLNS |
| 5502 | sp|P0ACG9|HSLR\_ECOL6 | MKEKPAVEVRLDKWLWAARFYKTRALAREMIEGGKVHYNGQRSKPSKIVELNATLTLRQGNDERTVIVKAITEQRRPASEAALLYEETAESVEKREKMALARKLNALTMPHPDRRPDKKERRDLLRFKHGDSE |
| 5503 | sp|Q09918|HSP35\_SCHPO | MDERHEAAGETSEKPKVLFLLNSYYGPFYDDGDNTGVNVVDLYEAFKVFEENGFDIVIASDTGDYGFDDKSFRDPAIVDETQSIFSNPDCSLMKKLKNIARLDRLNPSDYVIVYIPGGYGCSFDFPHAKVVQDFLYRFYETKGIICAVAQANIALAYTTNSDGQALCTNRRVTGCTWKDEVQNGVLNVMNRLNFYSFGHIAENIGAIFESPPVYVEDPFIVEDGQLFTGSNTNSAKGVAMEAVRAVLNYDG |
| 5504 | sp|Q92598|HS105\_HUMAN | MSVVGLDVGSQSCYIAVARAGGIETIANEFSDRCTPSVISFGSKNRTIGVAAKNQQITHANNTVSNFKRFHGRAFNDPFIQKEKENLSYDLVPLKNGGVGIKVMYMGEEHLFSVEQITAMLLTKLKETAENSLKKPVTDCVISVPSFFTDAERRSVLDAAQIVGLNCLRLMNDMTAVALNYGIYKQDLPSLDEKPRIVVFVDMGHSAFQVSACAFNKGKLKVLGTAFDPFLGGKNFDEKLVEHFCAEFKTKYKLDAKSKIRALLRLYQECEKLKKLMSSNSTDLPLNIECFMNDKDVSGKMNRSQFEELCAELLQKIEVPLYSLLEQTHLKVEDVSAVEIVGGATRIPAVKERIAKFFGKDISTTLNADEAVARGCALQCAILSPAFKVREFSVTDAVPFPISLIWNHDSEDTEGVHEVFSRNHAAPFSKVLTFLRRGPFELEAFYSDPQGVPYPEAKIGRFVVQNVSAQKDGEKSRVKVKVRVNTHGIFTISTASMVEKVPTEENEMSSEADMECLNQRPPENPDTDKNVQQDNSEAGTQPQVQTDAQQTSQSPPSPELTSEENKIPDADKANEKKVDQPPEAKKPKIKVVNVELPIEANLVWQLGKDLLNMYIETEGKMIMQDKLEKERNDAKNAVEEYVYEFRDKLCGPYEKFICEQDHQNFLRLLTETEDWLYEEGEDQAKQAYVDKLEELMKIGTPVKVRFQEAEERPKMFEELGQRLQHYAKIAADFRNKDEKYNHIDESEMKKVEKSVNEVMEWMNNVMNAQAKKSLDQDPVVRAQEIKTKIKELNNTCEPVVTQPKPKIESPKLERTPNGPNIDKKEEDLEDKNNFGAEPPHQNGECYPNEKNSVNMDLD |
| 5505 | sp|A3NSX5|HTPG\_BURP0 | MTQQTMSFQAEVKQLLHLMIHSLYSNKEIFLRELVSNASDAADKLRFEALENNALYESDPNLRIRLSFDKAARTITIDDNGIGMSRDEAIANLGTIARSGTKEFFSKLSGDQQKDAALIGQFGVGFYSGFIVADRITVETRRAGLPASEGVRWESAGEGDFQVDTIERAARGTTITLHLREGEDELLSSYRLKSIVQKYSDHVALPILMKKEEWDQEKGEMVEKDEDETINQASALWTRAKSEVTDEQYKQFYQHVAHDHQDPLAWTHNRVEGRSEYTQLLFVPSHAPFDLWNRDYRGGLKLYVKRVFIMDDAEQLLPQYLRFIKGVVDSSDLPLNVSREILQESRDVKAIREGVTKRALSMLEELANAEDDAGKEKYKTFWSAFGQVLKEGVGEDHANRERVAKLLRFASTHGDTDAQDVALADYVARMKPEQTKLYYVTADTWQAAKNSPHLEVFRKKGVEVLLLTDRVDEWMLSFLHEFDGKPLASVARGDLDLGALNDDEKKAQEETGEAMKPVVDKMKETLGEKVKDVRVTFRLTDSPSCLVADDNDMSGYLQRMLKAAGQSAPSFQPILEINPEHPLVKALKADGADFGDWCHLLFDQALLAEGGALEDPASFVKRTNALLLSRAA |
| 5506 | sp|Q82TV8|HTPG\_NITEU | MQTAENIEHLNFQAEANQLLKLMIHSLYSNKEIFLRELISNASDAADKLRFEGLSDAALYESDPDLKIRIAYDKEARTITIIDNGIGMSRQEVINNIGTIAKSGTREFFDSLTGDQAKDANLIGQFGVGFYSAFIVADKVTLTTRRAGLTIEHGVRWESGGEGEYTLETVEKPDRGTEIVLHLREGEDELLSSFQLRSIIRKYSDHITLPIVMKKEVWDDESKSYRLSDEDETINQASAIWARPKNEITQEQYDEFYKHVAHDFEPPLAHVHARVEGKQEYIQLLYIPAHAPFDLFDREHRHGLKLYVRRVFIMDDAEKLLPGYLRFVRGIIDSSDLPLNVSREILQESKDIDSIRAGSVKKVLGLIEDLAMSDKSEDQEKFKTFWREFGQVLKEGIAEDYSNRERIAKLLRFTSTHDEREEQTVSLDDYIARMKPEQEKIYYITADGLKAAQSSPHLEIFRKKGIEVLLLCDRIDEWLVANLNEYTGKSLQSIAKGNLDLGKLEDEEEKKEHEKEAGDFQELTNKMKEVLGEQVKDVRITYRLTESPACLVADTHDVSGNLGRLLKSAGQKVPDSKPFLEINPHHPMIQRLKYEEAKFADWSHILFDQALLAEGGQLEDPAGFVKRLNDLLLQNILSGK |
| 5507 | sp|A1V7K6|HSLU\_BURMS | MSTMTPAEIVSELDKHIIGQAKAKKAVAVALRNRWRRQQVAEPLRQEITPKNILMIGPTGVGKTEIARRLAKLADAPFIKIEATKFTEVGYVGRDVDSIVRDLIEISVKQTRETEMRKVRSKATDLAEDRILDVLLPQPRAVGFGASAEHANDDNNATRQTFRKRLREGQLDDKEIELDIEQPAVGMDIMAPPGMEEMTEQIRSMFSNLGSGKKQRRKVKIREALKLLTDEEAAKMLNDEEVKTKAVQNVEQNGIVFLDEIDKITSRNHEGGGGEVSRQGVQRDLLPLVEGTTINTKYGMVKTDHILFIASGAFHLAKPSDLIPELQGRFPIRVELDSLSVKDFEAILVATDASLVKQYQALLATEDVKLEFADDGIRRLAEIAYAVNEKTENIGARRLYTVIEKLLEEVSFAAGNHAGQSVTIDSAYVDRALGEVSKDEDLSRYVL |
| 5508 | sp|P19244|HSP41\_PEA | MSLKPLNMLLVPFLLLILAADFPLKAKASLLPFIDSPNTLLSDLWSDRFPDPFRVLEQIPYGVEKHEPSITLSHARVDWKETPEGHVIMVDVPGLKKDDIKIEVEENRVLRVSGERKKEEDKKGDHWHRVERSYGKFWRQFKLPQNVDLDSVKAKMENGVLTLTLHKLSHDKIKGPRMVSIVEEDDKPSKIVNDELK |
| 5509 | sp|A1KKZ1|HTPG\_MYCBP | MNAHVEQLEFQAEARQLLDLMVHSVYSNKDAFLRELISNASDALDKLRIEALRNKDLEVDTSDLHIEIDADKAARTLTVRDNGIGMAREEVVDLIGTLAKSGTAELRAQLREAKNAAASEELIGQFGIGFYSSFMVADKVQLLTRKAGESAATRWESSGEGTYTIESVEDAPQGTSVTLHLKPEDAEDDLHDYTSEWKIRNLVKKYSDFIAWPIRMDVERRTPASQEEGGEGGEETVTIETETLNSMKALWARPKEEVSEQEYKEFYKHVAHAWDDPLEIIAMKAEGTFEYQALLFIPSHAPFDLFDRDAHVGIQLYVKRVFIMGDCDQLMPEYLRFVKGVVDAQDMSLNVSREILQQDRQIKAIRRRLTKKVLSTIKDVQSSRPEDYRTFWTQFGRVLKEGLLSDIDNRETLLGISSFVSTYSEEEPTTLAEYVERMKDGQQQIFYATGETRQQLLKSPHLEAFKAKGYEVLLLTDPVDEVWVGMVPEFDGKPLQSVAKGEVDLSSEEDTSEAEREERQKEFADLLTWLQETLSDHVKEVRLSTRLTESPACLITDAFGMTPALARIYRASGQEVPVGKRILELNPSHPLVTGLRQAHQDRADDAEKSLAETAELLYGTALLAEGGALEDPARFAELLAERLARTL |
| 5510 | sp|A2RC73|HSLO\_STRPG | MDKIIKSIAQSGAFRAYVLDSTETVALAQEKHNTLSSSTVALGRTLIANQILAANQKGDSKITVKVIGDSSFGHIISVADTKGHVKGYIQNTGVDIKKTATGEVLVGPFMGNGHFVTIIDYGTGNPYTSTTPLITGEIGEDFAYYLTESEQTPSAIGLNVLLDENDKVKVAGGFMVQVLPGASEEEIARYEKRLQEMPAISHLLASKNHVDALLEAIYGDEPYKRLSEEPLSFQCDCSRERFEAALMTLPKADLQAMIDEDKGAEIVCQFCGTKYQFNESDMEALINDKA |
| 5511 | sp|Q476Y3|HSLU\_CUPPJ | MSHTMTPSEIVSELDKHIIGQNKAKKAVAVALRNRWRRQQVAEPLRQEITPKNILMIGPTGVGKTEIARRLAKLADAPFIKIEATKFTEVGYVGRDVDTIVRDLAEMAIKQTRESEMKKVRTKAEEAAEDRLLDVLLPPPRDIGFSQPEEKDSNTRQVFRKKLREGQLDDKDIELEVAAGLPSMDIMGPPGMEEMTEQIRSMFAGMGQGKKHRRKMKVKEAFKLLIDEEAAKLVNDEELKHKAIANVEQNGIVFLDEIDKIANRSELGGGEVSRQGVQRDLLPLVEGTTVSTKYGMIKTDHILFIASGAFHLSKPSDLIPELQGRFPIRVELESLSVQDFEAILTQTDASLTKQYQALLKTEEVELQFAPDGIRRLAEIAFSVNEKVENIGARRLYTVMERLLEDLSFHASKSSGETVTIDAAYVNERLGDLAVNEDLSRYVL |
| 5512 | sp|A1AIA6|HSLU\_ECOK1 | MSEMTPREIVSELDKHIIGQDNAKRSVAIALRNRWRRMQLNEELRHEVTPKNILMIGPTGVGKTEIARRLAKLANAPFIKVEATKFTEVGYVGKEVDSIIRDLTDAAVKMVRVQAIEKNRYRAEELAEERILDVLIPPAKNNWGQTEQQQEPSAARQAFRKKLREGQLDDKEIEIDLAAAPMGVEIMAPPGMEEMTSQLQSMFQNLGGQKQKARKLKIKDAMKLLIEEEAAKLVNPEELKQDAIDAVEQHGIVFIDEIDKICKRGESSGPDVSREGVQRDLLPLVEGCTVSTKHGMVKTDHILFIASGAFQIAKPSDLIPELQGRLPIRVELQALTTSDFERILTEPNASITVQYKALMATEGVNIEFTDSGIKRIAEAAWQVNESTENIGARRLHTVLERLMEEISYDASDLSGQTITIDADYVSKHLDALVADEDLSRFIL |
| 5513 | sp|P02516|HSP23\_DROME | MANIPLLLSLADDLGRMSMVPFYEPYYCQRQRNPYLALVGPMEQQLRQLEKQVGASSGSSGAVSKIGKDGFQVCMDVSHFKPSELVVKVQDNSVLVEGNHEEREDDHGFITRHFVRRYALPPGYEADKVASTLSSDGVLTIKVPKPPAIEDKGNERIVQIQQVGPAHLNVKENPKEAVEQDNGNDK |
| 5514 | sp|Q84TH5|AB25G\_ARATH | MSAFDGVENQMNGPDSSPRLSQDPREPRSLLSSSCFPITLKFVDVCYRVKIHGMSNDSCNIKKLLGLKQKPSDETRSTEERTILSGVTGMISPGEFMAVLGPSGSGKSTLLNAVAGRLHGSNLTGKILINDGKITKQTLKRTGFVAQDDLLYPHLTVRETLVFVALLRLPRSLTRDVKLRAAESVISELGLTKCENTVVGNTFIRGISGGERKRVSIAHELLINPSLLVLDEPTSGLDATAALRLVQTLAGLAHGKGKTVVTSIHQPSSRVFQMFDTVLLLSEGKCLFVGKGRDAMAYFESVGFSPAFPMNPADFLLDLANGVCQTDGVTEREKPNVRQTLVTAYDTLLAPQVKTCIEVSHFPQDNARFVKTRVNGGGITTCIATWFSQLCILLHRLLKERRHESFDLLRIFQVVAASILCGLMWWHSDYRDVHDRLGLLFFISIFWGVLPSFNAVFTFPQERAIFTRERASGMYTLSSYFMAHVLGSLSMELVLPASFLTFTYWMVYLRPGIVPFLLTLSVLLLYVLASQGLGLALGAAIMDAKKASTIVTVTMLAFVLTGGYYVNKVPSGMVWMKYVSTTFYCYRLLVAIQYGSGEEILRMLGCDSKGKQGASAATSAGCRFVEEEVIGDVGMWTSVGVLFLMFFGYRVLAYLALRRIKH |
| 5515 | sp|Q92038|ACOD\_CYPCA | MPDREIKSPIWHPEPGTVEDVFDHTYKEKEGPKPPTVIVWRNVILMSLLHLGALYGLFLFPSARALTWIWFFGCLLFSALGITAGAHRLWSHRSYKASLPLQIFLALGNSMAFQNDIYEWSRDHRVHHKYSETDADPHNAVRGFFFSHVGWLLVRKHPDVIEKGRKLELSDLKADKVVMFQRRFYKPSVLLMCFFVPTFVPWYVWGESLWVAYFVPALLRYALVLNATWLVNSAAHMWGNRPYDSSINPRENRFVTFSAIGEGFHNYHHTFPFDYATSEFGCKLNLTTCCFIDLMCFLGLAREPKRVSREAVLARAQRTGDGSHWSG |
| 5516 | sp|Q9C7X0|ADR2\_ARATH | MASSSSSPRNWRYNVFTSFHGPDVRIKFLSHLRQQFVYNGITMFDDNGIERSQIIAPALKKAIGESRVAIVLLSKNYASSSWCLDELLEILKCKEYIGQIVMTVFYEVDPSHVRKQTGDFGIAFKETCAHKTEEERSKWSQALTYVGNIAGEDFIHWKDEAKMIEKIARDVSTKINVTPCRDFDDMVGLERHLKEMVSLLDLDKEGVKMVGISGPAGIGKSTIAKALHSRHSSTFQHNCFVDNLWENYKICTGEHGVKLRLHEQFVSKILKQNGLELTHLSVIKDRLQDKKVLIILDDVESLAQLETLADMTWFGPGSRVIVTTENKEILQQHGIGDIYQVGYPSESEALTIFCLSAFKQASPPDGFMDLADEVVRICDKLPLALCVLGSSLLRKSQTDWEDELPRLRNCLDGIESVLKVGFESLNEKDQALFLYITVFFNYECADHVTLMLAKSNLNVRLGLKNLANRYLIHIDHDQKKRVVVHRLLRVMAIQVCTKQKPWKSQILVDAEKIAYVLEEATGNRSIKGVSFDTAEIDELMISPKAFEKMCNLLFLKVYDAGWHTGKRKLDIPEDIKFPRTIRLFHWDAYSGKRLPSSFFAENLVEVNMQDSELQKLWEGTQCLANLKKIDLSRSSCLTELPDLSNATNLEDLYVGSCTALVELPSSIGNLHKLAHIMMYSCESLEVIPSLINLTSLTFLNMNKCSRLRRFPDIPTSIEDVQVTGTTLEELPASLTHCSGLQTIKISGSVNLKIFYTELPVSVSHINISNSGIEWITEDCIKGLHNLHDLCLSGCKRLVSLPELPRSLKILQADDCDSLESLNGHLNTPNAELYFANCFKLDAEARRAIIQQSFVSGWALLPGLEVPPEFGHRARGNSLIIPYSASNRFKVCVVMSLNHHQPFELVPRNLLYRWTVIGDSVSSDEKTFHLSHMFNADSVNSKLQKPHLFIFHSCLPFIFHSCLPFIFDISNIMLEFSSEYKDFDILECGVQILTDETDERNIWGSLVF |
| 5517 | sp|P46897|ATHB7\_ARATH | MTEGGEYSPAMMSAEPFLTMKKMKKSNHNKNNQRRFSDEQIKSLEMMFESETRLEPRKKVQLARELGLQPRQVAIWFQNKRARWKSKQLETEYNILRQNYDNLASQFESLKKEKQALVSELQRLKEATQKKTQEEERQCSGDQAVVALSSTHHESENEENRRRKPEEVRPEMEMKDDKGHHGVMCDHHDYEDDDNGYSNNIKREYFGGFEEEPDHLMNIVEPADSCLTSSDDWRGFKSDTTTLLDQSSNNYPWRDFWS |
| 5518 | sp|Q59LV8|ASG1\_CANAL | MPKREIEDTQSPYSSTGLVSTGESPKTSTSTPTSSTNNRAATTTTNNTSTTSTSLLKSNSNLQPIAMTPSVSSTSLAINKPKSQENKRRRVTRACDTCRQKKVKCDGKQPCIHCTVYSYKCSYDQPNIRNKKNSGIPIPSQPSPAILQVAAQAAVAFGSNNNSSNQQSLQSLQQQQQHVVHQHQHQPLPADEPIPKTNLIIFQQIINALLPKLQLNGFDPNLQFDLNKFQKVVQYVMSKSQTFTLNLNEITELMQDPDSQIPPPPPASSSSSHHRRTLSVGSFDDSSNSAVSSPREVGLHLPSKEVALNLIYTTWNKACVLFRFYHRPSLLEEVDLLYSLDPMNYGDRQQKFLPFLYSILACGSLFSKTPYTMGTPSENEKNLEDDGFKYFLEARKLIDISNVGDINSIQTVVMMIIYLQCSARLSTCYSYIGIALRSALKEGLHRNLTLFQNSKKKLDPIEEDTRKRLFYTIYKMDIYINSLLGLPRSLNEDEFDQLLPVELDDENVTRTEYLFDKQQGRLSSSGCANQHTKLMFILSHIIKKMYPIKVKPEEAENSSNVNYSRDRIHAKVTELEVELKNWLDNLPQELKPIDPSSTTKDVIDEVPEKFRLANYYLHLAFLNCQIILYRPFIHFISDSMDGSSSDPRSLIRGRNCIKVARMVVKLANKMIDHKLLLGTYWFSMYTIFFSIACLIYYFHFANYNNNGQGFNYAGILFDDDLNIDMIKKDIEIGKKVLDNLKNSSNSSLRIYNILNTMFEQLNRRTASRSRQVTATTNSTTTTANTNSNSNSNSQPTTLPANFQNVNVKNTFENFDNMNHFVKKERERERESLSQLFDNTSMAKFESSSEIPKNVANIQRVATPLEENNKEIGEVSGGNLTSNYMPGVFDKLDTQIFGKILPPYMLEKNETMNYNSNNNNSNNVNNNFNNNNNAGEVNNNSNGVAYNNNAANWPLNNAEDGLNLEDLFGTLGNNGNGGTSSSNGLEYLDPF |
| 5519 | sp|P86268|ANTF\_ANTPS | AGLDLGAASXFGALAFEGVA |
| 5520 | sp|P10340|FLAV\_SYNE7 | MAKIGLFYGTQTGVTQTIAESIQQEFGGESIVDLNDIANADASDLNAYDYLIIGCPTWNVGELQSDWEGIYDDLDSVNFQGKKVAYFGAGDQVGYSDNFQDAMGILEEKISSLGSQTVGYWPIEGYDFNESKAVRNNQFVGLAIDEDNQPDLTKNRIKTWVSQLKSEFGL |
| 5521 | sp|A4SFR6|GRPE\_CHLPM | MMKHRDKPMPENEEPLQEQEGTLHAEPAEPQPQKEDRVAELEAALTAEKEQSGKLRDEVLRRAAEFENFRKQKEREAVQSSLRAKETILRELLPVLDDVERVLANAPEPEAIPVAAKPFIEGVELMKKNLDRWLEEKGVKPIEAIGLKLDVDFHEAISQIEHPEAEPDTIVEQYQTGYLLGDRVIRHAKVIVSR |
| 5522 | sp|Q4QRL3|CC88B\_MOUSE | MEGAKGPRLRGFLSGSLATWALGLAGLVGEAEESAGGTEEEEEEEEEEGALCTEKRFLRLIDGALLLRVLGIIAPSSRGGLRMVRGRDGPAACRMWNLCHLWGRLRDFYQEELQLLILSPPPDLQTMGCDPFSEEAVDELESILRLLLGASVQCEHRELFIRHIRGLSLDVQSELAGAIQEVTQPGAGVVLALAGPESGELVAEELEMQLRSLTGMMSRLARERDLGAQRLAELLLEREPAHLLLPEAPANASAEGVSHHLALQLTNAKAQLRRLRQEVEEKAEQLLDSQAEVQGLEAEIRRLRQETQALSAQAKRAELYREEAEALRERAGRLPRLQEELRRCREKLQAAEVFKGQLEEERVLSEALEASKVLLEEQLEVARERSARLHETQRENLLLRTRLGEAHADLDSLRHQLEQLVEENVELELELQRSLEPPPGSPGEASLPGAAPSLQDEVREAEAGRLRAVERENRELRGQLQMLQAQLGSQHPLLEEQRENSRQPPVPNRDPATPSALHHSPQSPACQIGGEGSESLDLPSPASYSDITRSPKCSQAPDSHPELESPLQMVSQDPQTSDQALQESDPTVETHQCLEKSGHRVPLQSPIVWDPPQGPEVRIEVQELLGETGSREAPQGELVHKAQVLKQESPKCRPRSAELTLREPLKDQKALDRELELSKQQKETGRHEQRPKGLESKLGPQKPQQTSEGVPDAWSREEPTPGETLVSAIPEEQALRDEVAQLRREVAGLEVKLQAQAQRLEARSAEALCLSEELAQARRTEAEAHQEAEAQAREQARLREAVDTASLELEAASREREALAEALAAAGRERRQWERDGPRLRAQVEAAEQQVQALESQVRCHLEEAEREHAEKQALREELEKAVLRGQELGDRLEHLQEELEQAALERQKFLQEQENQHQRYRHLEQRLEAELQAASTSKEEALMELKARALQLEEELIQLRQYPVDLATGARAGPRTVETQNGRLIEVERNNATLVAEKAALQGQLQHLEGQLGSLQGRAQELLLQSQRAQEHSSRLQAEKSMMEMQGQELHRKLGVLEEEVRAARRAQEETRGQQQALLRDHEALVQLQRRQETELEGLLVRHRDLKANMRALELAHRELQGRHEQLQAQRANVEAQEVALLAERERLMQDGHRQRGLEEELRRLQNEHERAQMLLAEVSRERGELQGERGELRSRLARLELERAQLEIQSQQLRESNQQLDLSACRLTTQCELLTQLRSAQEEENRQLLAEVQALSRENRELLERSLESRDHLHREQREYLDQLNALRREKQKLVEKIMDQYRVLEPGPLPRTKKGSWLADKVKRLIRPRREGALHGGPRLGADGAGSTESLGGPLETELPEGREADGTGSSSPAPMRRVQSSLCLGDETLAGGQRRRLSSRFPGGRSSASFSPGDTPRQRFRQRRPGPLGAPSTHSKGSGVEWDGSIKTLSEHEADDTREAFQEQKPEKQFLTPSLSQ |
| 5523 | sp|P0CL01|CSPJ\_SALTY | MTTKITGLVKWFNPEKGFGFITPKDGSKDVFVHFSAIQSNEFRTLNENQEVEFSVEQGPKGPSAVNVVAL |
| 5524 | sp|Q67WE2|CYL2\_ORYSJ | MAHLATVVLLLVAAARQAPLAAGDHSANPRLPTCAAAPDVAAPQEHGDGGGVGGGRRILDITHAVRAELPVLGSCDGVGALVRLKKSMANGSRSNLSELRMSVHTGTHVDAPGHMWQPHFDAGLDVDTLDLGLLNGPALLVDVPRHSNVTAEVMESLNIPRGVRRVLFRTMNTDKRLMWQKESDLSFVGFTEDGAQWLVGYTDIKLVGVDYLSVASYEHMIPAHVVFLKSKEIVIVEALKLDDVEPGMYMLHCLPLRLAGAEGSPVRCILIK |
| 5525 | sp|Q7A799|CTSR\_STAAN | MHNMSDIIEQYIKRLFEESNEDVVEIQRANIAQRFDCVPSQLNYVIKTRFTNEHGYEIESKRGGGGYIRITKIENKDATGYINHLLQLIGPSISQQQAYYIIDGLLDKMLINEREAKMIQAVIDRETLSMDMVSRDIIRANILKRLLPVINYY |
| 5526 | sp|Q48EU9|DEGPL\_PSE14 | MSIPRMKSYFSLIAAVLMLGQVATAQAENLPDFTGLVEQASPAVVNISTRQKLPDRAIANQQMPDLEGLPPMLREFLERSMPPGSRPPGAGKGDRQRETQSLGSGFIISPDGYILTNNHVIDGADEILVRLSDRSELKAKLIGTDSRTDVAVLKIDGKDLPTAKLGNSNTLKVGEWVLAIGSPFGFDHSVTKGIVSAKGRSLPNDTYVPFIQTDVAINPGNSGGPLFNMAGEVVGINSQIFTRSGGFMGLSFAIPIDVAMDVANQLKASGKVSRGWLGVVIQEVNKDLAESFGLDKPAGALVAQVLEDGPAAKGGLQVGDVILSANGQPIIMSADLPHLIGNLKDGSKAELEVIRDGKRQKLTVTVGALPDEGQEMGDVAGTGAERSSNRLGVSVIELTAEQKKSLDLKGGVAIKEVTGGPASLIGLQPGDVITHLNNQAITSSKQFTEVAKSLPKDRSVSMRVLRQGRATFITFKLSE |
| 5527 | sp|P54925|DEGPL\_BARHE | MVKKTFFTTLAAVSFSAALETALFFSGCGSSLWTTKAHANSVFSSLMQQQGFADIVSQVKPAVVSVQVKSNKKKKEWFFSDFFSTPGFDQLPDQHPLKKFFQDFYNRDKPSNKSLQRSHRLRPIAFGSGFFISSDGYIVTNNHVISDGTSYAVVLDDGTELNAKLIGTDPRTDLAVLKVNEKRKFSYVDFGDDSKLRVGDWVVAIGNPFGLGGTVTAGIVSARGRDIGTGVYDDFIQIDAAVNRGNSGGPTFDLNGKVVGVNTAIFSPSGGNVGIAFAIPAATAKQVVQQLIEKGLVQRGWLGVQIQPVTKEISDSIGLKEAKGALITDPLKGPAAKAGIKAGDVIISVNGEKINDVRDLAKRIANMSPGETVTLGVWKSGKEENIKVKLDSMPEDENMKDGSKYSNEHGNSDETLEDYGLIVAPSDDGVGLVVTDVDPDSDAADKGIRPGDVIVTVNNKSVKKVSDITDTIKNAQKLGRKAILLQVRTNDQNRFVALPIFKK |
| 5528 | sp|P63972|DNAJ\_STAAW | MAKRDYYEVLGISKDASKDEIKKAYRKLSKKYHPDINKEEGADEKFKEISEAYEVLSDDNKRASYDQFGHDGPQGFGGQGFNGSDFGGFSGFGGGGFEDIFSSFFGGGRQRDPNAPQKGDDLQYTMTLTFEEAVFGTTKEISIRKDVTCETCHGDGAKPGTSKKTCSYCNGAGHVAVEQNTILGRVRTEQVCPKCNGSGQEFEEACPTCHGKGTENKTVKLEVKVPEGVDNEQQIRLAGEGSPGVNGGPAGDLYVVFRVKPSETFKRDGDDIYYKLNVSFPQAALGDEIKIPTLNNEVMLTIPAGTQTGKQFRLKEKGIKNVHGYGYGDLYVDIKVVTPTKLTDRQKELMKEFAQLNGEEINEQPSNFKDRAKRFFKGE |
| 5529 | sp|Q03FR7|DNAK\_PEDPA | MASNKIIGIDLGTTNSAVAVMDGDKPKIITNPEGARTTPSVVAFKNGETQVGEVAKRQAITNPDTIASIKRHIGEAGYKVTVDGKSYTPQEVSAMILSYIKKFAEDYLGEEVDKAVITVPAYFDDSQRQATKDAGKIAGLDVKRIINEPTASSLAYGLDQNGKDEKILVYDLGGGTFDVSVLELGDGVFQVLSTNGDTHLGGDDFDQKIIDWLVDEFKKDNGVDLSQDKMALQRLKDAAEKAKKDLSGVSEAQISLPFISAGEAGPLHLEKTLTRAQFDQLTADLVERTKAPVENALKDAGLSASEIDEVILNGGSTRIPAVQEAVKNWTGKEPNHSINPDEAVALGAAVQGGVLTGDVKDVVLLDVTPLSLGIETMGGVFTKLIDRNTTIPTSKSQVFSTAADNQPAVDIHVLQGERPMAADNKTLGRFQLTDIPAAPRGIPQIEVKFDIDKNGIVNVSATDKGTGKEQKITIKSSSGLSDEEIDRMMKEAKENEEADKKRKEEVDLRNEVDQLIFTTDKTLKDLEGKVSEDEIKKAKDAKEALEKAQKDNNLDEMKAKKDDLSKIVQDLSVKLYQQAQEAQGQAADGAQANAGDAKTDDDNTVNGDFEEVDPDKDNK |
| 5530 | sp|A6U251|DNAJ\_STAA2 | MAKRDYYEVLGISKDASKDEIKKAYRKLSKKYHPDINKEEGADEKFKEISEAYEVLSDDNKRASYDQFGHDGPQGFGGQGFNGSDFGGFSGFGGGGFEDIFSSFFGGGRQRDPNAPQKGDDLQYTMTLTFEEAVFGTTKEISIRKDVTCETCHGDGAKPGTSKKTCSYCNGAGHVAVEQNTILGRVRTEQVCPKCNGSGQEFEEACPTCHGKGTENKTVKLEVKVPEGVDNEQQIRLAGEGSPGVNGGPAGDLYVVFRVKPSETFKRDGDDIYYKLNVSFPQAALGDEIKIPTLNNEVMLTIPAGTQTGKQFRLKEKGIKNVHGYGYGDLYVDIKVVTPTKLTDRQKELMKEFAQLNGEEINEQPSNFKDRAKRFFKGE |
| 5531 | sp|B4TVZ5|DNAK\_SALSV | MGKIIGIDLGTTNSCVAIMDGTQARVLENAEGDRTTPSIIAYTQDGETLVGQPAKRQAVTNPQNTLFAIKRLIGRRFQDEEVQRDVSIMPYKIIGADNGDAWLDVKGQKMAPPQISAEVLKKMKKTAEDYLGEPVTEAVITVPAYFNDAQRQATKDAGRIAGLEVKRIINEPTAAALAYGLDKEVGNRTIAVYDLGGGTFDISIIEIDEVDGEKTFEVLATNGDTHLGGEDFDTRLINYLVDEFKKDQGIDLRNDPLAMQRLKEAAEKAKIELSSAQQTDVNLPYITADATGPKHMNIKVTRAKLESLVEDLVNRSIEPLKVALQDAGLSVSDINDVILVGGQTRMPMVQKKVAEFFGKEPRKDVNPDEAVAIGAAVQGGVLTGDVKDVLLLDVTPLSLGIETMGGVMTPLITKNTTIPTKHSQVFSTAEDNQSAVTIHVLQGERKRASDNKSLGQFNLDGINPAPRGMPQIEVTFDIDADGILHVSAKDKNSGKEQKITIKASSGLNEEEIQKMVRDAEANAESDRKFEELVQTRNQGDHLLHSTRKQVEEAGDKLPADDKTAIESALSALETALKGEDKAAIEAKMQELAQVSQKLMEIAQQQHAQQQAGSADASANNAKDDDVVDAEFEEVKDKK |
| 5532 | sp|A7GHH6|DNAK\_CLOBL | MAKIIGIDLGTTNSCVSVMEGGEPVVIPNAEGSRTTPSVVSFQANGERLIGQVAKRQAITNPEKTIISIKRYMGTDHKVNIDSTEYTPQQISAMVLQKLKADAEAYLGEKVTQAVITVPAYFNDSQRQATKDAGKIAGLEVLRIINEPTAASLAYGLDKMDTNEKILVYDLGGGTFDVSILELGDGVFEVKATNGDTKLGGDDFDQKLIDYIAETFKAENGIDLRNDKMAIQRLKEAAEKAKIELSSATQTNINLPFITADATGPKHIDMNLTRAKFNELTHDLVQRTLEPIKKSLEGSGYAMSDIDKIIMVGGSTRIPAVQDAVKDFTGKELSKGVNPDEVVAMGAAIQAGVLTGEVKDVLLLDVTPLTLGIETFGGVSTTLIEKNTTIPTRKSQVFSTAADGQTSVEIHVVQGERSMAADNKTLGRFTLSGIAPAPRGIPQIEVTFDIDANGIVNVSAKDKGTGKEANITITASTNLTDDEIEKAVNEAKKFEAEDKKRKESIEIKNNADQIVYQTEKTLTDLGDKVSAEDKAQIEEKVKAVKDVKDGEDLEAIKKATEDLTQTFYGISSKIYQQANPEGAQGAGFDPNNMGGANAGNASAGNDKKDDNVVDADFKVEDDK |
| 5533 | sp|P0A6Z0|DNAK\_ECO57 | MGKIIGIDLGTTNSCVAIMDGTTPRVLENAEGDRTTPSIIAYTQDGETLVGQPAKRQAVTNPQNTLFAIKRLIGRRFQDEEVQRDVSIMPFKIIAADNGDAWVEVKGQKMAPPQISAEVLKKMKKTAEDYLGEPVTEAVITVPAYFNDAQRQATKDAGRIAGLEVKRIINEPTAAALAYGLDKGTGNRTIAVYDLGGGTFDISIIEIDEVDGEKTFEVLATNGDTHLGGEDFDSRLINYLVEEFKKDQGIDLRNDPLAMQRLKEAAEKAKIELSSAQQTDVNLPYITADATGPKHMNIKVTRAKLESLVEDLVNRSIEPLKVALQDAGLSVSDIDDVILVGGQTRMPMVQKKVAEFFGKEPRKDVNPDEAVAIGAAVQGGVLTGDVKDVLLLDVTPLSLGIETMGGVMTTLIAKNTTIPTKHSQVFSTAEDNQSAVTIHVLQGERKRAADNKSLGQFNLDGINPAPRGMPQIEVTFDIDADGILHVSAKDKNSGKEQKITIKASSGLNEDEIQKMVRDAEANAEADRKFEELVQTRNQGDHLLHSTRKQVEEAGDKLPADDKTAIESALTALETALKGEDKAAIEAKMQELAQVSQKLMEIAQQQHAQQQTAGADASANNAKDDDVVDAEFEEVKDKK |
| 5534 | sp|B9MJZ1|DNAK\_CALBD | MAHILGIDLGTTNSCMAVIEGGQPVVIPNAEGFRTTPSVVAFTKTGERLVGHAAKRQAITNPERTIISIKRDMGTNKRIKIDDKEYSPEEISAMILMKLKADAEAYLGEKITQAVITVPAYFTDSQRQATKNAGRIAGLEVLRIINEPTAAALAYGLDKEGHQKIMVYDLGGGTFDVSILEIGDGVIEVLATSGNNRLGGDDFDQRIIDYIADEFMKEHGIDLRQDKVALQRLKDAAERAKIELSSALQTTINLPFITADANGPKHIDMVLTRAKFEELIKDLVEKTREPVETALSDAKLTPEQIDKVILVGGSTRIPYVQEFVKKLTGKEPFKGINPDECVAIGAAIQAGVLAGQVKDILLLDVTPLSLGIETLGGVFTKIIERNTTIPTRKSQIFTTAVDGQTQVEIHVLQGERPLAKDNKTLGRFILDGIPPAPRGVPQIEVTFDIDANGIVHVSAKDLGTGREQKITITSQTHLSEEEIQRAIKEAEMYAEQDRKRKELIEARNRADSIIYQTEKLLRELGDKMTETEKQQIESKLKALKDVMNGEDKEQIERAIDELTKSFYDVSTRLYQQGYTASGPQGGPNPGGGQSGPDGNVNTDYKVY |
| 5535 | sp|Q3J7D9|DNAJ\_NITOC | MAKRDYYEALGVARNASDAEIKKAYRRLAMRYHPDRNPDDKAAEEHFKEIQEAYDVLSDARKRTAYDQFGHAGVGAGASAGPGGHGFEGGSNFGDIFGDVFNDIFGAAAGRGGRRQAYRGADLRYNLDLTLEEAVAGTTAKIRIPTYVACKACEGSGAKPGTSPITCPTCGGHGQVRMQQGFFSLQQTCPRCHGSGQIVDSPCSTCRGEGRVREHKTLSVKIPPGVDTGDRIRLTGEGEAGESGGPPGDLYVQVQIKAHSIFSREGDALHCEVPVSFVAAALGGELDVPTLTGRAKLKIPAGTQSGQVFRLRGKGVSPVRGGSAGDLLCRVMVETPVNLNQEQKELLEKFEASMNRNKKHSPKHHSWLEGVKRFFEDMKF |
| 5536 | sp|A6Q486|DNAJ\_NITSB | MVDIDYYELLEVDRNASFEEIKKAYRKLALKYHPDRNPDNPEAEEKFKLINEAYQVLSDEEKRALYDQYGKAGLENQGFSGFNQKSFDDIMDFFESVFGETFGGGFGSRRRSDEKYPLDLSIEMEISFQEALFGTQKEVHYSFKVPCSACKGTGAKDGKLTACPECHGRGQIYYRQGFMTFSQTCPRCHGQGEVAQEHCEECSGKGYRIEKEKITIDIPEGIDSGNRIRAQSRGNVSASGMRGDLYITVFVQEDDHFVRYNDDIYMEVPIFFTQAALGETITIPTPRGERELQLNVGTKDKEQFVFKGEGFKNVHTGKKGNLIAQVKIIYPTSLNDEQKELLHKLQESFGVESKPHEEKFSSIFEKVKNWFTK |
| 5537 | sp|B3PXH3|DNAK\_RHIE6 | MAKVIGIDLGTTNSCVAVMDGKDAKVIENAEGARTTPSMVAFSDDGERLVGQPAKRQAVTNPTNTLFAVKRLIGRRYEDPTVEKDKHLVPFSIVKGDNGDAWVEANGKGYSPAQISAMILQKMKETAESYLGEKVEKAVITVPAYFNDAQRQATKDAGKIAGLEVLRIINEPTAAALAYGLDKKDGKTIAVYDLGGGTFDISILEIGDGVFEVKSTNGDTFLGGEDFDMRLVEYLVAEFKKDNGIDLKNDKLALQRLKEAAEKAKIELSSSQQTEINLPFITADASGPKHLTLKLTRAKLESLVDDLVQRTIAPCKAALKDAGVTAAEIDEVVLVGGMSRMPKVQEVVKQLFGKEPHKGVNPDEVVALGAAIQAGVLQGDVKDVLLLDVTPLSLGIETLGGVFTRLIERNTTIPTKKSQTFSTAEDNQQAVTIRVSQGEREMAADNKLLGQFDLVGLPPSPRGVPQIEVTFDIDANGIVQVSAKDKGTGKEQQIRIQASGGLSDADIEKMVKDAESHAAEDKKRREAVEAKNQAESLIHSTEKSLKDYGDKVSEADRTAISDAIAALKSATEATEADAEDIKAKTQTLMEVSMKLGQAIYEAQQAEGGAAADASAEEGGDNVVDADYEEIKDDDRKKSA |
| 5538 | sp|B8E4S1|DNAK\_SHEB2 | MGKIIGIDLGTTNSCVAVLDGGKARVLENAEGDRTTPSIIAYTDDETIVGSPAKRQAVTNPTNTFFAIKRLIGRRFKDDEVQRDVNIMPFKIIAADNGDAWVESRGNKMAPPQVSAEILKKMKKTAEDFLGEEVTEAVITVPAYFNDSQRQATKDAGRIAGLDVKRIINEPTAAALAYGIDKKQGDNIVAVYDLGGGTFDISIIEIDSNDGDQTFEVLATNGDTHLGGEDFDNRLINYLADEFKKEQGLDLRKDPLAMQRLKEAAEKAKIELSSTNHTEVNLPYITADATGPKHLVIKITRAKLESLVEDLILRTLEPLKVALADADLSVTDINEVILVGGQTRMPKVQEAVTNFFGKEPRKDVNPDEAVAVGAAIQAGVLSGDVKDVLLLDVTPLSLGIETMGSVMTKLIEKNTTIPTKAQQVFSTADDNQSAVTIHVLQGERKQASANKSLGQFNLDGIEPAQRGQPQIEVMFDIDADGILHVSATDKKTGKKQNITIKASSGLSEEEVAQMVRDAEAHADEDKKFEELVQSRNQADGLVHATKKQVEEAGDALPSEDKEKIQAAMDAVDTAIKGNDKEAIEKATQNLIEASAKLMEIAQAKSQAQGGDNADAGKQANAAADDVVDAEFEEVKDDKK |
| 5539 | sp|A3D7T4|DNAK\_SHEB5 | MGKIIGIDLGTTNSCVAVLDGGKARVLENAEGDRTTPSIIAYTDDETIVGSPAKRQAVTNPTNTFFAIKRLIGRRFKDDEVQRDVNIMPFKIIAADNGDAWVESRGNKMAPPQVSAEILKKMKKTAEDFLGEEVTEAVITVPAYFNDSQRQATKDAGRIAGLDVKRIINEPTAAALAYGIDKKQGDNIVAVYDLGGGTFDISIIEIDSNDGDQTFEVLATNGDTHLGGEDFDNRLINYLADEFKKEQGLDLRKDPLAMQRLKEAAEKAKIELSSTNHTEVNLPYITADATGPKHLVIKITRAKLESLVEDLILRTLEPLKVALADADLSVTDINEVILVGGQTRMPKVQEAVTNFFGKEPRKDVNPDEAVAVGAAIQAGVLSGDVKDVLLLDVTPLSLGIETMGSVMTKLIEKNTTIPTKAQQVFSTADDNQSAVTIHVLQGERKQASANKSLGQFNLDGIEPAQRGQPQIEVMFDIDADGILHVSATDKKTGKKQNITIKASSGLSEEEVAQMVRDAEAHADEDKKFEELVQSRNQADGLVHATKKQVEEAGDALPSEDKEKIQAAMDAVDTAIKGNDKEAIEKATQELIEASAKLMEIAQAKSQAQGGDNADAGKQANATADDVVDAEFEEVKDDKK |
| 5540 | sp|B0S1F8|DNAK\_FINM2 | MSKVIGIDLGTTNSAVAVMEGGESVIVPNSEGNRTTPSIVAFTKDGERLVGETAKRQAITNPDRTITSIKREMGTEYKVNIDGKDYTPEEISAMILQKLKADTESYLGEEVTEAVITVPAYFTDSQRQATKNAGKIAGLNVKRIINEPTAAALAYGIDKETDQHKVMVYDLGGGTFDVSILEVGDGVFEVLATRGNNRLGGDDFDEKLLNYLADEFMKQNGVDLRKDPTSKQRLKDAAENAKKELSTRVSTNVNLPFISAVNGTPVHLNMDITRSKFDELTSDLVEESLKPVRQALEDAGLSHNDIEKVLLVGGSTRIPAVQEAVKKLIGKNPQKDINPDECVAIGAALQGGVLTGEVKDLLLLDVTPLSLGIETLGGVCTKLIERNTTIPTKKSQVFTTAADGQTSVEIKVLQGEREMAADNTLLGQFNLTEIPAAPRGVPQIEVTFDIDANGIVNVSAKDLGSGKQQAMTITSSTKMSDDEIKRKVDEASKYAEEDKNKKETIETKNSAESVIYQVEKTIKDLGDKVSETEKSDINSKIEALKSILDSGDNKDIKAKTDELTQEMYKLSSKLYENNAQQPGASQEAKKDDDVVDADYEVVDDDENK |
| 5541 | sp|Q5FSL5|DNAK\_GLUOX | MSKVIGIDLGTTNSCVAVREGDETKVIENSEGARTTPSMVAFTDNGERLVGQAAKRQAVTNPANTLYAVKRLIGRRYDDPTVQKDKEMVPYAIVRGDNGDAWVEARGEKYAPSQIAAYVLGKMKETAESYLGETVSQAVITVPAYFNDAQRQATRDAGKIAGLEVLRIINEPTAAALAYGLGKRDSGTVAVYDLGGGTFDVSILEISDGVIEVKSTNGDTFLGGEDFDNRIIGFLADEFKKDQGIDLRGDKLALQRLKEAAEKAKIELSSSKETEINLPFITADASGPKHLVVKLSRAKLESLVDDLIQRTLGPCRAAIKDASVSANEIDEVILVGGMTRMPKVIETVKEFFGKDPARNVNPDEVVAIGAAVQGAVLKGDVKDVLLLDVTPLSLGIETLGGVFTRLIDRNTTIPTKKSQTFSTAEDNQNAVTIKVYQGEREMAADNKLLGNFDLQGIAPAPRGVPQIEVTFDIDANGIVNVSAKDKATNKEQQIKIQASGGLSDADIDRMVKDAEANASADKAKRELVELRNSTESLIHQTEKSITEGGDKVPAADKSEAEAAIAEAREALGGENLDTLKAASEKLTQAAMKVGQGVYQAGQGAEGGAAPEGEKKDENVVDADFEDLEDDSKKH |
| 5542 | sp|A1BHL1|DNAJ\_CHLPD | MKKDYYEVLGLSRSATKDEIKKAYRKLAMQYHPDKNPDNKDAEEHFKEVNEAYEALSNDDKRRRYDQFGHAGVGSSAASGGGQYGAGASDFSDIFSAFNDMFGGGKQRGGFEDVFGGAAGAGGRRGRASGGIHGTDLKIRLKLTLEEIAHGVEKTLKIKKQIACTECNGTGSKSGATETCPTCHGSGEVRQAAKTMFGQFVNITACPTCGGEGRVVKDRCVSCYGEGIKQGEVTVKVTVPAGVQDSNYLTLRGQGNAGPRGGANGDLIVVIEEKPHEKFQRNGDDVIYHLALGFPDLVLGTKVDVPTLDGSVKLTIPPSTQPETMLRIPGHGIGHLRGSGRGDQYVRVNVFVPKEVSSHDRELLKELKNSSAISPADQNDREEKSFFEKARDIFS |
| 5543 | sp|A7HZ38|DNAJ\_PARL1 | MSKRDFYDVLGVSRNASADELKKAYRSLAKKYHPDQNQGDKEAEQRFKELNEAYDALKDEQSRAAYDQFGHAAFDGGMGARGGPGGMGGFGAGASMSDIFDDLFGEFMGGRGGRGGRRGDGGQTRGHDLRYNMEISLEEAFEGKKAQVRVPGSVACEVCTGTGAAPGSSPITCPTCQGHGKVRASQGFFTIERTCPTCHGRGQTIDKPCTNCHGAGRVEKERTLSVNIPAGVEDGTRIRLSGEGEAGMRGGPAGDLYIFLSVKPHRLFERDGADLFCRVPIAMVTATLGGEIEVPTLGGKKVKVKVPEGAQTGRQFRLRGKGMPVVNSRETGDLYIQITVETPVNLTKKQKELLKEFEQASTPGNNPESAGFFAKVKEFWDGFQN |
| 5544 | sp|Q8L3D3|DNAJ\_COLMA | MSKRDYYETLEVSQDASEKEIKKAYKKLAMKYHPDRTQGDKSKEETFKEVKEAYEILNDDQKRAAYDQYGHAAFEQGGHGGGGGGHGGGFGQDFGDIFGDIFGGGGGGGRGRQRQQRGSDLRYNVELSLEDAVKGKSLEIKVPTYVSCEPCDGSGAKKGTSAKTCSTCHGHGQVQMRQGLFAVQQTCPTCSGKGKVIADKCTSCRGQGRVEKTKTLSVKIPAGVDTGDRIRLSGEGEAGEHGAPAGDLYVQVNVRDHDIFVRDENHLYCEVPISFVTASLGGEIEVPTLGGKVKLKVPKETQTGKMFRLRGKGVKSVRSTSTGDLMCKVVIETPVNLSGDQADLLRQLEEKMASSSKKHSPKETGFFDGVKKFFDDLKS |
| 5545 | sp|Q89AU7|DNAJ\_BUCBP | MSKQDYYKTLGVTQSSDEREIKRAYKKLAMKYHPDRNPGNKNSEEKFKTIKEAYEILIDPKKRTAYDQYGHSAFEQGNSTGNNNTFTHSFSSNSDFSDIFGDVFGDIFGGTRKQKSERQGSDLRYDMTLTLEEAVRGTIKEIKIPTLQKCPTCYGYGTKTGTKPQFCPTCRGNGQIQMRKGFFTVQQTCPQCHGEGNFIRDPCRRCHGNGRIEISKTLSVKVPPGVDTNDKIRLNNEGEAGENGAMAGNLYVQINVKKHPIFEREENNLYCEVPISFSMAALGGEIEVPTLDGKVKLKIPCETQSGKLLRIRGRGVKSIRNNNRQGDLLCRIIVETPVNLNDLQKDLLYKLGESFNGFKGEKNSPKSKRFFEGVKRFFDDLTR |
| 5546 | sp|B0TYF2|DNAK\_FRAP2 | MGKIIGIDLGTTNSCLAIMDGKTAKVIENAEGHRTTPSVVAYTDNGEILVGQAAKRQAVTNPDNTFFAIKRLIGRKYDDKAVQEDIKKKVPYAVIKADNGDAWVATKEGKKMAPPQVSAEVLRKMKKTAEDYLGEPVTEAVITVPAYFNDSQRQATKDAGKIAGLEVKRIINEPTAAALAYGVDSKKGEQTVAVYDLGGGTFDISIIEIADVDGDNQIEVLSTNGDTFLGGEDFDVALMNYLIDEFKKEQGIDLHNDKLALQRVREAAEKAKVELSSAQQTDVNLPYITADATGPKHLNIKVTRAKFESLVSDLVMRSLEPCKKALEDAGLSKSDITEVLLVGGQTRMPLVQEKVKEFFGKEPRKDVNPDEAVAVGAAIQGGVLAGDVKDVLLLDVTPLSLGIETMGGVMTKLIERNTTIPTKKSQVFSTAEDNQPAVTIHVLQGEREMASANKSLGRFDLADIPPAPRGIPQIEVTFDIDANGILNVSAKDKATGKEQNIVIKSSSGLSEDDIEKMVQDAEANAESDKKFHELVSARNTADNLIHSSRKAIAELGDKVSAEEKEKVEEACKDLESVVKGDDKDAIDAKTKALEEVFSPIAQKAYAEQAQAAGAQGGAQAEEPKKDDDVVDADFEDVEDNKK |
| 5547 | sp|B8FUN4|DNAK\_DESHD | MGKVIGIDLGTTNSCVAVMEGGEAVVITNAEGNRTTPSVVGFSKTGERLAGQVAKRQAVSNPDKTVISIKRHMGTDYKVKIDDKSYSPQEISAMILQKLKADAEAYLGQTVTEAVITVPAYFTDAQRQATKDAGTIAGLDVKRIINEPTAAALAYGLDKQEDQTVLVFDLGGGTFDVSLLELSQGMVEVKATSGNNKLGGDDFDQRLIDYMVAEFKKDQGVDLAKDRVALQRLKEAAEKAKVELSGVSTTNVNLPFITMTGEGPAHLDMNITRAKFEELTADLVEATLGPTRQALADAKLSWNEVNQVILVGGSTRIPAVQEAIKKLSGKEPHKGVNPDEVVALGAAIQGGVLAGEVKDIILVDVTPLSLGIETLGGVFTRIIDRNTTVPTTKSQVFSTAADSQTSVDIHVLQGEREMAAYNKTLGRFQLSGIPPAPRGIPQIEVKFDIDANGIVHVSAKDMATGNEQKVTITASTGLSQEEIEKMKKDAEAHADEDKKRKELIDAKNQADSMVYQTEKTLKDFEGKIPDNEAEPIKKALEELKTAAAGENIELIKEKTEGVTKVLYPIIEKMYQQTGGAAPGPDMGADPGAGGAQGDDNVVDAEYTEVDKDQK |
| 5548 | sp|Q7NDH1|DNAK\_GLOVI | MGKVVGIDLGTTNSVVAVLEGGQPTVIANAEGSRTTPSVVAFTKNHDRLVGQLARRQAVLNPENTFYSVKRFIGRKYDEITDEAKQVAYRVVRDGSNVKLHSTNEDKDFAPEEISALVLRKLVDDASKYLGEKITQAVITVPAYFNDSQRQATKDAGRIAGIEVLRIINEPTAAALAYGLDKKANETILVFDLGGGTFDVSILEVGDGVFEVKSTSGDTHLGGDDFDRRIVDYLADEFKKLEGVDLRTDRQALQRLTEAAEKAKIELSGVTQTQINLPFITAGADGAKHLDMSLTRAKFESLCADLLRRVEKPVEQALRDAKLSKENIDEVVLVGGSTRIPAVQELVKRIIGKDPNQSVNPDEVVAVGAAIQAGVLSGEVRDVVLLDVTPLSLGVETLGGVATPIIPRNTTIPTRKSETFSTAADGQTSVEIHVIQGERSMAGDNKSLGRFRLDGIPPAPRGVPQVEVTFDIDANGILSVTAKDKASGKAQTISITGASTLSKDDVAKMVNEAESFAGEDKKRREAVDLKNEADSLAYQAERQLTEFGDKVDSSDKSKIEGLIKDLREALSREDMDKVASLKADLQQAVYDLSSKLYQQSAPSGAAAGPDEGAPSGSGGTSGTRGGDDVIDAEFTETK |
| 5549 | sp|Q6YPM2|DNAJ\_ONYPE | MTKKDYYHILGLDKDASPEDIKKAYRSLAKKYHPDISKEANAENKFKEVQEAYSVLGDASKKSNYDRFGDASDNGFSGFGGGGFDGFDSFGDSFFSSFGDIFGNQQTKKPSYDKKVEMTISFMDAVLGANKTIEITVEADCRVCHGKGAVSNQDVITCKRCGGNGQIITEQRTFLGNIRSRQVCPNCSGKGQEIKNKCYACHGQKRQKVKQSATFNIPAGIQEGMSLQVPGKGNFVPLSNNQKRRRSILLTFNSASS |
| 5550 | sp|B6HZ11|DNAJ\_ECOSE | MAKQDYYEILGVSKTAEEREIKKAYKRLAMKYHPDRNQGDKEAEAKFKEIKEAYEVLTDSQKRAAYDQYGHAAFEQGGMGGGGFGGGADFSDIFGDVFGDIFGGGRGRQRAARGADLRYNMELTLEEAVRGVTKEIRIPTLEECDVCHGSGAKPGTQPQTCPTCHGSGQVQMRQGFFAVQQTCPHCQGRGTLIKDPCNKCHGHGRVERSKTLSVKIPAGVDTGDRIRLAGEGEAGEHGAPAGDLYVQVQVKQHPIFEREGNNLYCEVPINFAMAALGGEIEVPTLDGRVKLKVPGETQTGKLFRMRGKGVKSVRGGAQGDLLCRVVVETPVGLNEKQKQLLQELQESFGGPTGEHNSPRSKSFFDGVKKFFDDLTR |
| 5551 | sp|Q39017|DGK1\_ARATH | MDDDGELGMFFPSWTSKNPIDTVESRGLMFSCFVAALVGILTIAYTAFQWRRNINLSWTKAIARSKKNPKARHKVPVAPHSWELDPIARAKNLNCCVCLKSMSPSQAIVASESFFHRCTICGAAAHFNCSSSAPKDCKCVSMVGFEHVVHQWAVRWTEGADQTDDSSFCSYCDESCSSSFLGGSPIWCCLWCQRLVHVDCHSNMSNETGDICDLGPLRRLILCPLYVKELTRNPSGGFLSSITHGANELASTALASIRIQSKKYKQTNETSADTGNSGSNCDESTESTADTGPTVNGAHAVLENSISVMNGDSSNGDSDSNGKLEKKPSVKRTGSFGQKEYHALRSKLKYELADLPSDARPLLVFINKKSGAQRGDSLRQRLHLHLNPVQVFELSSVQGPEVGLFLFRKVPHFRVLVCGGDGTAGWVLDAIEKQNFISPPAVAILPAGTGNDLSRVLNWGGGLGSVERQGGLSTVLQNIEHAAVTVLDRWKVSILNQQGKQLQPPKYMNNYIGVGCDAKVALEIHNLREENPERFYSQFMNKVLYAREGARSIMDRTFEDFPWQVRVEVDGVDIEVPEDAEGILVANIGSYMGGVDLWQNEDETYENFDPQSMHDKIVEVVSISGTWHLGKLQVGLSRARRLAQGSAVKIQLCAPLPVQIDGEPWNQQPCTLTISHHGQAFMLKRAAEEPLGHAAAIITDVLENAETNQVINASQKRTLLQEMALRLT |
| 5552 | sp|Q5ZTY4|DNAJ\_LEGPH | MEQRDYYELLEVSRNASDAEIKKAYRRLAMKYHPDRNPGDTSAEEKFKEIQKAYNILSDKQKRAAYDQFGHAGVDPSMGGGPGGFGGFGGFGDVFEDIFENIFSGGRGHGRQSRGQRGADLQFNVQLTLEEAAIGKEVEITVPRHGTCTVCEGSGAKKGTSPKTCETCQGMGQVRIQQGFFSIQQTCPTCHGEGKIISDPCASCHGQGRVRESKKINVKIPAGVDNGDRVRLSGEGEAGVHGGGSGDLYVQISLKKHAIFERHENDLHCEVPISFATAALGGSIEVPTLEGRVTLKIPAETQTGKVFRLRSKGMKSVRGYGQGDLLCKVVVETPVNLSREQKELLNKLQDSLENAKGTHSPKTSSWFAGVKKFFEDMKF |
| 5553 | sp|Q6ATB4|CRSH1\_ORYSJ | MATAATTSAAAIPTGGGGRRQHPHPRRPGLRPRRLHRLRLPAQAAAAAAASSPSTSSSSSSSSTPAEGGGRLVAELVGAFNELTGRMGEGLATSSSSRLLFRALKLALPALRDGDGGRALARALAIAASLADLQMDAEVISAGILREALDAGAISMRDVKSEIGISTAHLLHESLRLKHAPSKLDVLDDESASALRKFCLSYYDIRAVILELALKLDMMRHLDCLPRYLQRIKSLEVLKIYAPLAHAVGAGNLSLELEDLSFRYLFPHSYDHIDQWLRSQETENKLLIDSYKEQLLQALKDDDELSQIVQDISIQGRYKSRFSTMKKLVKDGRKPEEVNDILALRVILEPRCDGSSLDWGPRACHRTHEIIQAMWKEVPGRTKNYVTRPKENGYQSLHVAIDVSEPGKMRPLMEIQIRTKEMHKFAVGGEASHSLYKGGLTDPGEAKRLKAIMLAAAELAAMRLRDLPASDQGDSNCTNRAFCQLDKNGDGRISIEELTEVMEDLGAGGKDAKELMHLLDANSDGSLSSDEFEAFQRQIELMRSLDDKDDRYRKILKEKLQTIDSAGLIQVYRKQLGDKLLVS |
| 5554 | sp|Q09736|CP51\_SCHPO | MAFSLVSILLSIALAWYVGYIINQLTSRNSKRPPIVFHWIPFVGSAVAYGMDPYVFFRECRAKYGDVFTFVCMGRKMTAFLGVQGNDFLFNGKLADLNAEEAYSHLTTPVFGKDVVYDIPNHVFMEHKKFIKSGLGFSQFRSYVPLILNEMDAFLSTSPDFGPGKEGVADLLKTMPVMTIYTASRTLQGAEVRKGFDAGFADLYHDLDQGFSPVNFVFPWLPLPRNRRRDRAHKIMQKTYLKIIKDRRSSTENPGTDMIWTLMSCKYRDGRPLKEHEIAGMMIALLMAGQHTSAATIVWVLALLGSKPEIIEMLWEEQKRVVGENLELKFDQYKDMPLLNYVIQETLRLHPPIHSHMRKVKRDLPVPGSKIVIPANNYLLAAPGLTATEEEYFTHATDFDPKRWNDRVNEDENAEQIDYGYGLVTKGAASPYLPFGAGRHRCIGEQFAYMHLSTIISKFVHDYTWTLIGKVPNVDYSSMVALPLGPVKIAWKRRN |
| 5555 | sp|P14194|CTC\_BACSU | MATLTAKERTDFTRSSLRNIRTSGHVPGIIYGKDTGNKPVSLDSVELIKTLRDEGKNAVITLEVSGEKHSVMVTDLQTDPLKNEITHADFQVVNMSEDIEVEVPIHLTGEAIGVKNGGVLQQPLYALTVKAKPKAIPQTIEADISSLDVNEVLTIADLPAGGDYSFNHESDEVVASILPPQQQEAAEVDEEESADAQPEGENEQ |
| 5556 | sp|Q01895|CYST\_SYNY3 | MTTNLPFSSPSKQLNRFSFWQSISIPWVVTIIYLLLILVLPIAALLVKSASLGLEGFWQIATTPIAISTYNVTFITALAAGLVNGVMGTLVAWVLVRCQFPGKKIVDAMVDLPFALPTSVAGLVLATLYSQTGWVGRFFAPFGIQIAFSRLGVFVAMVFISLPFIVRTLQPVLQELEEEAEEAAWSLGATEFQTFWRVIFPPLIPPILTGIALGFSRAVGEYGSVVLIASNIPFKDLIAPVLVFERLEQYDYPAATVIGAVLLSVSLILLLIINLLQQWGRRYAND |
| 5557 | sp|P15078|CSTA\_ECOLI | MNKSGKYLVWTVLSVMGAFALGYIALNRGEQINALWIVVASVCIYLIAYRFYGLYIAKNVLAVDPTRMTPAVRHNDGLDYVPTDKKVLFGHHFAAIAGAGPLVGPVLAAQMGYLPGMIWLLAGVVLAGAVQDFMVLFVSTRRDGRSLGELVKEEMGPTAGVIALVACFMIMVIILAVLAMIVVKALTHSPWGTYTVAFTIPLALFMGIYLRYLRPGRIGEVSVIGLVFLIFAIISGGWVAESPTWAPYFDFTGVQLTWMLVGYGFVAAVLPVWLLLAPRDYLSTFLKIGTIVGLAVGILIMRPTLTMPALTKFVDGTGPVWTGNLFPFLFITIACGAVSGFHALISSGTTPKMLANEGQACFIGYGGMLMESFVAIMALVSACIIDPGVYFAMNSPMAVLAPAGTADVVASAAQVVSSWGFSITPDTLNQIASEVGEQSIISRAGGAPTLAVGMAYILHGALGGMMDVAFWYHFAILFEALFILTAVDAGTRAARFMLQDLLGVVSPGLKRTDSLPANLLATALCVLAWGYFLHQGVVDPLGGINTLWPLFGIANQMLAGMALMLCAVVLFKMKRQRYAWVALVPTAWLLICTLTAGWQKAFSPDAKVGFLAIANKFQAMIDSGNIPSQYTESQLAQLVFNNRLDAGLTIFFMVVVVVLALFSIKTALAALKDPKPTAKETPYEPMPENVEEIVAQAKGAH |
| 5558 | sp|A1SPX5|DNAK\_NOCSJ | MARAVGIDLGTTNSVVAVLEGGEPTVIANAEGARTTPSVVAFAKSGEVLVGEVAKRQAVTNVDRTIRSVKRHMGTDWLTKIDDKDFTPQQISAFVLQKLKRDAEAYLGEPVTDAVITVPAYFSDAQRQATKEAGEIAGLNVSRIVNEPTAAALAYGLDKGDDQTILVFDLGGGTFDVSLLEIGEGVVEVKATSGDNHLGGDDWDARIVDWMVKKFKDNNGVDLAADKIAKQRLQEAAEKAKIELSSSSETTIHLPYITHGESGPLHFEEKLTRSEFQRLTTDLLDRTKGPFQSVLKDGGVAIKDIDHVVLVGGSTRMPAVTEVVKELLGGKEPNKGVNPDEVVAVGAALQAGVLKGEVKDVLLLDVTPLSLGIETKGGVMTTLIERNTTIPTKRSEIFTTADDNQPSVEIKVAQGERQMWAQNQPLGNFELTGLPPAPRGIPKIEVTFDIDANGIVHVTAKDQASGKEQSMTISGGSALGKDEIDRMVREAEQYAEEDAKRREAVETRNQAEQLVYTTEKFLDENSDKLPDDVKTEVRADVDALKVTLEKEDASADDIRAGVTKLGESSQKMGAAMYAAAEADSAAAGGSAGATGESDDDVVDAEIVDEGGADDGAEGESK |
| 5559 | sp|Q7V1H4|DNAK1\_PROMP | MGQIVGIDLGTTNSVVGVIEAGRPVVIANSEGTRTTPSIVGFTKNSEIVIGDQARRQLVLNPKNTFYNLKRFIGRDWDELDETSISVPYNVKSNDKGSVRILSPFTEREYAPEELISSIIRKLINDAETYLGDTIDSAVITVPAYFNESQRQATKDSAVLAGIKVDRILNEPTAAALAYGFEKSSSNNVLVFDLGGGTFDVSLLRISNGVFDVKATCGDTQLGGNNFDSKIVDWIAERFLEKHKIDLRRDRQALQRLTEAAEKAKCELSGLQKTKISLPFITTSDDGPLHIEEEFDRKLFESLSDDLLDRLLEPVQIALEDSGWDAEQIDEVVLVGGSTRIPMVQQLVKTLVPNEPCQSVNPDEVVAIGAAIQSGIISGDLRDLLLNDVTPLSLGLETIGGLMKVLIPRNTPIPVRQSDVFSTSESNQSSVVVQVRQGERPLASENKSLGKFRLSGIPPAPRGIPQVQVAFDIDANGLLEVSATDRTTGRKQTVSISGGSNLNEQEINMMIAEAKSKSTEDRIKRSVIDRKNNALTLIAQAERRLRDASLEFGPYGAERQQRAVELAIQDVEEFIDDDDPQELEISVSSLQEALFGLNRRFAAEKKVDSNPLQGIKNTFGSLKDELFSDDYWDDDPWDNQMNSNSRNSRYGNSRDDDPWDNDYFL |
| 5560 | sp|Q7N8Y4|DNAK\_PHOLL | MGKIIGIDLGTTNSCVAIMDGTTARVLENSEGDRTTPSIIAYTQDGETLVGQPAKRQAVTNPQNTLFAIKRLIGRRFQDEEAQRDVAIMPYKIIAADNGDAWLEVKDQKMAPPQVSAEVLKKMKKTAEDYLGEPVTEAVITVPAYFNDAQRQATKDAGRIAGLEVKRIINEPTAAALAYGLDREVGNRTIAVYDLGGGTFDISIIEIDEVDGEKTYEVLATNGDTHLGGEDFDSRMINYLVDEFKKDQGIDLRNDPLAMQRLKEAAEKAKIELSSAQQTDVNLPYITADATGPKHMNIKVTRAKLESLVEDLVKRSMEPVRVALQDAGLSVSDVNDVILVGGQTRMPMVQKVVADFFGKEPRKDVNPDEAVAMGAAVQGGVLAGDVKDVLLLDVTPLSLGIETMGGVMTSLIVKNTTIPTKHSQVFSTAEDNQSAVTIHVLQGERKRAGDNKSLGQFNLDGIQAAPRGMPQIDVTFDIDADGILHVSAKDKNSGREQQITIKASSGLNEEEIQRMVRDAEANAESDRKFEELVQVRNQADQLVHGTRKQVEEAGDKLPAEDKTAIESAVAELEKVAKGEDKADIEAKIQALVQASAKLLEIAQQQAQAGATADAGDSAKKDDDVVDAEFEEVKDKK |
| 5561 | sp|Q32KA5|DNAK\_SHIDS | MGKIIGIDLGTTNSCVAIMDGTTPRVLENAEGDRTTPSIIAYTQDGETLVGQPAKRQAVTNPQNTLFAIKRLIGRRFQDEEVQRDVSIMPFKIIAADNGDAWVEVKGQKMAPPQISAEVLKKMKKTAEDYLGEPVTEAVITVPAYFNDAQRQATKDAGRIAGLEVKRIINEPTAAALAYGLDKGTGNRTIAVYDLGGGTFDISIIEIDEVDGEKTFEVLATNGDTHLGGEDFDSRLINYLVEEFKKDQGIDLRNDPLAMQRLKEAAEKAKIELSSAQQTDVNLPYITADATGPKHMNIKVTRAKLESLVEDLVNRSIEPLKVALQDAGLSVSDIDDVILVGGQTRMPMVQKKVAEFFGKEPRKDVNPDEAVAIGAAVQGGVLTGDVKDVLLLDVTPLSLGIETMGGVMTTLIAKNTTIPTKHSQVFSTAEDNQSAVTIHVLQGERKRAADNKSLGQFNLDGINPAPRGMPQIEVTFDIDADGILHVSAKDKNSGKEQKITIKASSGLNEDEIQKMVRDAEANAEADRKFEELVQTRNQGDHLLHSTRKQVEEAGDKLPADDKTAIESALTALETALKGEDKAAIEAKMQELAQVSQKLMEIAQQQHAQQQTAGADASANNAKDDDVVDAEFEEVKDKK |
| 5562 | sp|A5CM86|DNAK\_CLAM3 | MARAVGIDLGTTNSVVSVLEGGEPTVIANAEGARTTPSVVAFTKDGEVLVGETAKRQNVTNVDRTISSVKRHMGTDWTVGIDDKKYTSQELSARILGKLKRDAEQYLGDSVTDAVITVPAYFNDAERQATKEAGEIAGLNVLRIINEPTAAALAYGLDRGKEDELILVFDLGGGTFDVSLLEVGKDDDFSTIQVRSTAGDNRLGGDDWDQRIVDHLVKRFKESTGVDVSNDKIAKQRLKEAAEQAKKELSSSTSTSIQLPYLSLTENGPANLDETLTRAKFEELTNDLLERTRKPFEDVIREAGVSVGDVAHVVLVGGSTRMPAVVDLVKKLTGGKEPNKGVNPDEVVAVGAALQAGVLKGERKDVLLIDVTPLSLGIETKGGIMTKLIERNTAIPTKRSETFTTADDNQPSVAIQVFQGEREFTRDNKNLGTFELTGIAPAPRGIPQVEVTFDIDANGIVHVSAKDKGTGKEQSMTITGGSSLGKEDIERMVREAEEHAAEDKTRREQAEVRNNAEQLAYSIDKLIKENDDKLPEDVKSEVQGDVDGLKSALAGDDEDAVKTAFDKLSASQTKLGEAIYAQGQQEQAAGETPEGASEAKKDDEDIVDAEVVDEDDEDKKTDR |
| 5563 | sp|B0RBI1|DNAK\_CLAMS | MARAVGIDLGTTNSVVSVLEGGEPTVIANAEGARTTPSVVAFTKDGEVLVGETAKRQNVTNVDRTISSVKRHMGTDWTVGIDDKKYTSQELSARILGKLKRDAEQYLGDSVTDAVITVPAYFNDAERQATKEAGEIAGLNVLRIINEPTAAALAYGLDRGKEDELILVFDLGGGTFDVSLLEVGKDDDFSTIQVRSTAGDNRLGGDDWDQRIVDHLVKRFKESTGVDVSNDKIAKQRLKEAAEQAKKELSSSTSTSIQLPYLSLTENGPANLDETLTRAKFEELTNDLLERTRKPFEDVIREAGVSVGDVAHVVLVGGSTRMPAVVDLVKKLTGGKEPNKGVNPDEVVAVGAALQAGVLKGERKDVLLIDVTPLSLGIETKGGIMTKLIERNTAIPTKRSETFTTADDNQPSVAIQVFQGEREFTRDNKNLGTFELTGIAPAPRGIPQVEVTFDIDANGIVHVSAKDKGTGKEQSMTITGGSSLAKEDIERMVREAEEHAAEDKTRREQAEVRNNAEQLAYSIDKLIKENDDKLPEDVKSEVQGDVDGLKSALAGDDETAVKTAFDKLSASQTKLGEAIYAQGQQEQAAGEAPEGASEAKKDDEDIVDAEVVDEDDEDKKTDR |
| 5564 | sp|P77527|DAFA\_THET8 | MLARSGWLSLEALSEYGLSLAAVRAYVEIGFVEPLEVGGAWYFREEDLLRMAKAERIRKDLGANLIGAALVVEILERT |
| 5565 | sp|P73097|DNAJ2\_SYNY3 | MEQVRNYYQILGVPRNATAEEIKKSFRKLARQYHPDVNPNDKTAEEKFKDINEAYDVLSDETKRRELDSRLFGRFRRPPTSRFSPNSNGGRSPNGTSVNGQVRTPTGRTGTRQPAQSWQDFSETRRTKVVSPARPVPRDVEANLTLPLEKAYRGGKERIRLEDGRSLEVEMPGGMGDGQRIRLKQQGINGGDLYLKINLSPHPLFTLQGTDIACQVPVTPSEAILGGAIEVMTIDGLVKMTVPAGLKNGQKLRLAKKGFPNNQGDRGDQLVEIRVEIPPEPSPEELELYRRIREKETFNPRQKFFDF |
| 5566 | sp|A7FXL5|DNAK\_CLOB1 | MAKIIGIDLGTTNSCVSVMEGGEPVVIPNAEGSRTTPSVVSFQANGERLIGQVAKRQAITNPEKTIISIKRYMGTDHKVNIDSTEYTPQQISAMVLQKLKADAEAYLGEKVTQAVITVPAYFNDSQRQATKDAGKIAGLEVLRIINEPTAASLAYGLDKMDTNEKILVYDLGGGTFDVSILELGDGVFEVKATNGDTKLGGDDFDQKLIDYIAETFKAENGIDLRNDKMAIQRLKEAAEKAKIELSSATQTNINLPFITADATGPKHIDMNLTRAKFNELTHDLVQRTLEPIKKSLEGSGYAMSDIDKIIMVGGSTRIPAVQDAVKDFTGKELSKGVNPDEVVAMGAAIQAGVLTGEVKDVLLLDVTPLTLGIETFGGVSTTLIEKNTTIPTRKSQVFSTAADGQTSVEIHVVQGERSMAADNKTLGRFTLSGIAPAPRGIPQIEVTFDIDANGIVNVSAKDKGTGKEANITITASTNLTDDEIEKAVNEAKKFEAEDKKRKESIEIKNNADQIVYQTEKTLTDLGDKVSAEDKAQIEEKVKAVKDVKDGEDLEAIKKATEDLTQTFYGISSKIYQQANPEGAQGAGFDPNNMGGANAGNASAGNDKKDDNVVDADFKVEDDK |
| 5567 | sp|A0KTS5|DNAK\_SHESA | MGKIIGIDLGTTNSCVAVLDGGKARVLENAEGDRTTPSIIAYTDDETIVGQPAKRQAVTNPNNTFFAIKRLIGRRFKDDEVQRDVNIMPFKIIAADNGDAWVESRGNKMAPPQVSAEILKKMKKTAEDFLGEEVTEAVITVPAYFNDSQRQATKDAGRIAGLEVKRIINEPTAAALAYGIDKKQGDNIVAVYDLGGGTFDISIIEIDSNDGDQTFEVLATNGDTHLGGEDFDNRLINYLADEFKKEQGLDLRKDPLAMQRLKEAAEKAKIELSSTNQTEVNLPYITADATGPKHLVVKITRAKLESLVEDLIIRTLEPLKVALADADLSVSDINEVILVGGQTRMPKVQEAVSNFFGKEPRKDVNPDEAVAVGAAIQAGVLSGDVKDVLLLDVTPLSLGIETMGSVMTKLIEKNTTIPTKAQQVFSTADDNQSAVTIHVLQGERKQASANKSLGQFNLDGIEPAPRGMPQIEVMFDIDADGILHVSATDKKTGKKQNITIKASSGLSEEEVAQMVRDAEAHAEEDKKFEELVQSRNQADGLVHATKKQVEEAGDALPADDKAKIEAAMSAVEVATKGNDKEAIEKATQELIEASAKLMEIAQAKAQTQGGAQEGAAKQSNATADDVVDAEFEEVKDDKK |
| 5568 | sp|A6Q421|DNAK\_NITSB | MSKVLGIDLGTTNSCMAIYEGKEAKVIPNKEGKNTTPSVVAFTDKGEVLVGDPAKRQMITNPKRTIYSVKRIMGMMCNEEKAQEAKKRLPYNIVDRNGACAVDVDGKVYTPQEISAKILMKLKEDAEAYLGQEITEAVITVPAYFNDAQRKATKEAGQIAGLNVLRIINEPTAAALAYGLDKKEAEKIVVYDLGGGTFDVTILETGDNVVEVLATGGDAFLGGDDFDNRIIDWLVDEFKKETGIDLKSDIMALQRLKEAAENAKKELSSAMETEINLPFITADQSGPKHLVKKLTRAKFESLIEDLVEKTITIANNVLKDSGLSKDEVNEVVLVGGSTRIPLVQQKVKEFFGKEPNKSVNPDEVVAVGAAIQGAVIKGDVKDVLLLDVTPLSLGIETLGGVMTKIIEKGTTIPVKKSQIFSTAEDNQPAVTIHVLQGEREMAKDNKSLGQFTLEGIPPAPRGVPQIEVTFDIDANGILTVSAKDKATGKEQKITVTGTSGLSEEEIQRMIQDAEAHKEEDRKRKELVETRNQADALAYQTEKSLKEVGNAISADERAQIEAALNDLKNVLKDENATKEQIEAKVQALTQVSHKLAEAMYKKEQGQTGGTEQGGTEQKKSGGDDDVIDAEVE |
| 5569 | sp|Q5YNI2|DNAJ2\_NOCFA | MSQREWIEKDYYKELGVSSTASQDEIKKAYRKLARDLHPDANPGDSKAEERFKAVSEAHAVLSDPAKRKEYDETRRLFAGGGYPRGGFGPGGAGGFSQGFDIGDIFGGTAAGDGGLGDILGGLFNRGGTRTTSRPRRGADVETETTLGFREAAQGVTVPLRMTSPSPCTTCHGSGAKPGTSPRVCPICNGTGVVSRNQGAFGFSEPCDGCRGTGSIIDDPCVDCHGSGIQNRTRTITVRIPPGVSDGQRIRLAGQGEAGLRGAPSGDLYVTVHVSQDKVFGRNGDDLTLVLPVSYAELVLGTTVSVPTLDGRVGVKVPPGTADGRTLRVRGRGVPKRGGGAGDLLVTVKVAVPQKLDDDALEALERYREAEKASGFDPRAGWAGA |
| 5570 | sp|Q5YNI0|DNAK\_NOCFA | MARAVGIDLGTTNSVVAVLEGGEPVVVANSEGSRTTPSIVAFAKNGEVLVGQPAKNQAVTNVDRTIRSVKRHIGTDWTVEIDGKKYTPQEISARTLMKLKRDAEAYLGEEITDAVITVPAYFEDAQRQATKEAGQIAGLNVLRIVNEPTAAALAYGLDKGDKEQTILVFDLGGGTFDVSLLEIGEGVVEVRATSGDNHLGGDDWDQRIVNWLVDKFKASSGIDLTKDKMAMQRLREAAEKAKIELSSSQSTSINLPYITVDADKNPLFLDEQLSRAEFQKITSDLLDRTRAPFQQVIKDAGISVSDIDHVVLVGGSTRMPAVSDLVRELTGGKEPNKGVNPDEVVAVGAALQAGVLKGEVKDVLLLDVTPLSLGIETKGGVMTKLIERNTTIPTKRSETFTTADDNQPSVQIQVFQGEREIAAHNKLLGSFELTGIPPAPRGVPQIEVTFDIDANGIVHVTAKDKGTGKENTIKIQDGSGLSKEEIDRMIKDAEQHAAEDKARREEAETRNQAETLVHQTEKFIKDNEDKVPADVKSKVEAAIAEANEALAGTDIAAVKAAVEKLATESQALGQAIYEAQGADAAASSNGAASSANDDQVVDAEVVDEPVDTEKK |
| 5571 | sp|A5ITA8|DNAK\_STAA9 | MSKIIGIDLGTTNSCVTVLEGDEPKVIQNPEGSRTTPSVVAFKNGETQVGEVAKRQAITNPNTVQSIKRHMGTDYKVDIEGKSYTPQEISAMILQNLKNTAESYLGEKVDKAVITVPAYFNDAERQATKDAGKIAGLEVERIINEPTAAALAYGLDKTDKDEKVLVFDLGGGTFDVSILELGDGVFEVLSTAGDNKLGGDDFDQVIIDYLVAEFKKENGVDLSQDKMALQRLKDAAEKAKKDLSGVSQTQISLPFISAGENGPLHLEVNLTRSKFEELSDSLIRRTMEPTRQAMKDAGLTNSDIDEVILVGGSTRIPAVQEAVKKEIGKEPNKGVNPDEVVAMGAAIQGGVITGDVKDVVLLDVTPLSLGIEILGGRMNTLIERNTTIPTSKSQIYSTAVDNQPSVDVHVLQGERPMAADNKTLGRFQLTDIPPAERGKPQIEVTFDIDKNGIVNVTAKDLGTNKEQRITIQSSSSLSDEEIDRMVKDAEVNAEADKKRREEVDLRNEADSLVFQVEKTLTDLGENIGEEDKKSAEEKKDALKTALEGQDIEDIKSKKEELEKVIQELSAKVYEQAAQQQQQAQGANAGQNNDSTVEDAEFKEVKDDDKK |
| 5572 | sp|P0DB70|DNAK\_STRP3 | MSKIIGIDLGTTNSAVAVLEGTESKIIANPEGNRTTPSVVSFKNGEIIVGDAAKRQAVTNPDTVISIKSKMGTSEKVSANGKEYTPQEISAMILQYLKGYAEDYLGEKVEKAVITVPAYFNDAQRQATKDAGKIAGLEVERIVNEPTAAALAYGMDKTDKDEKILVFDLGGGTFDVSILELGDGVFDVLATAGDNKLGGDDFDQKIIDFLVAEFKKENGIDLSQDKMALQRLKDAAEKAKKDLSGVTQTQISLPFITAGSAGPLHLEMSLSRAKFDDLTRDLVERTKTPVRQALSDAGLSLSEIDEVILVGGSTRIPAVVEAVKAETGKEPNKSVNPDEVVAMGAAIQGGVITGDVKDVVLLDVTPLSLGIETMGGVFTKLIDRNTTIPTSKSQVFSTAADNQPAVDIHVLQGERPMAADNKTLGRFQLTDIPAAPRGIPQIEVTFDIDKNGIVSVKAKDLGTQKEQHIVIKSNDGLSEEEIDRMMKDAEANAEADAKRKEEVDLKNEVDQAIFATEKTIKETEGKGFDTERDAAQSALDELKAAQESGNLDDMKAKLEALNEKAQALAVKMYEQAAAAQQAAQGTEGAQANDSANNDDVVDGEFTEK |
| 5573 | sp|Q1J578|DNAK\_STRPF | MSKIIGIDLGTTNSAVAVLEGTESKIIANPEGNRTTPSVVSFKNGEIIVGDAAKRQAVTNPETVISIKSKMGTSEKVSANGKEYTPQEISAMILQYLKGYAEDYLGEKVEKAVITVPAYFNDAQRQATKDAGKIAGLEVERIVNEPTAAALAYGMDKTDKDEKILVFDLGGGTFDVSILELGDGVFDVLATAGDNKLGGDDFDQKIIDFLVAEFKKENGIDLSQDKMALQRLKDAAEKAKKDLSGVTQTQISLPFITAGSAGPLHLEMSLSRAKFDDLTRDLVERTKTPVRQALSDAGLSLSEIDEVILVGGSTRIPAVVEAVKAETGKEPNKSVNPDEVVAMGAAIQGGVITGDVKDVVLLDVTPLSLGIETMGGVFTKLIDRNTTIPTSKSQVFSTAADNQPAVDIHVLQGERPMAADNKTLGRFQLTDIPAAPRGIPQIEVTFDIDKNGIVSVKAKDLGTQKEQHIVIKSNDGLSEEEIDRMMKDAEANAEADAKRKEEVDLKNEVDQAIFATEKTIKETEGKGFDTERDAAQSALDELKAAQESGNLDDMKAKLEALNEKAQALAVKMYEQAAAAQQAAQGAEGAQANDSANNDDVVDGEFTEK |
| 5574 | sp|P49463|DNAK\_TRICV | MGKVVGIDLGTTNSVVAAIEGGQPSVIVNAEGLRTTPSIVAYTKKQELLVGQIAKRQAVINPENTFFSVKRFIGSKELEISADSKKLPYKVVKDQNGNIKINCSSLNKEFSPEEISAQVLRKLINDATSYLGQDVTQAVITVPAYFNDSQRQATMDAGKIAGVEVLRIINEPTAASLAYGLDKKQNETILVFDLGGGTFDVSILEVGDGIFEVLATAGDTNLGGDDFDKVLVRWLVKEFEDQEGIDLTQDIQALQRLTEAAEKAKMELSTVEKTTIHLPFITADKTGPKHIEKELTRKTFETLCQELIERCQIPVEKALTDARLEKSDINEVVLVGGSTRIPAIQNLVESLTNKKPNQSVNPDEVVAIGAAIQAGILAGEIKDVLLLDVTPLSLGVETLGGVMTKIIARNTTIPVKKSEMFSTAVENQTNVEIHVLQGERELVAGNKSLGNFRLDGIPAAERGVPQIEVTFDINVDGLLSVKAKELETGIEQSVTIQGASNLDESEVSDMLAEAEKYAALNKEKRQNIDLKNQAETLCFEAEKELDLFKTSIPEEKQQNVQKLIENIRQDTQTDNFESLKLLVEELKMAMKDMVEAKPFVDQTDTDPMSNLNDL |
| 5575 | sp|A5IK42|DNAK\_THEP1 | MAEKKEFVVGIDLGTTNSVIAWMKPDGTVEVIPNAEGSRVTPSVVAFTKSGEILVGEPAKRQMILNPERTIKSIKRKMGTDYKVRIDDKEYTPQEISAFILKKLKNDAEAYLGGEIKKAVITCPAYFNDAQRQATKEAGIIAGLEVLRIINEPTAAALAYGLDKAGKEEKVLVYDLGGGTFDVSILEIGEGVIEVIATAGNNHLGGDDFDQRLIDWMAEEFKKQHGIDLREDRQALQRLRDAAEKAKIELSTKMETDVSLPFIAVSPSGQPLHLEMRITRSLFESLTRDLVEMTRGPIEQALNDAKLSPQDIDEIILVGGMTRVPMVQRFIKEFFGKEPNKSVNPDEAVAIGAAIQAAILAGTEGAKGRDIVLVDVTPLTLGIEVKGGLFEPIIPRNTKIPVRKSKIFTTVEDGQTEVEIRVYQGERPIARENIFLGSFKLVGIPPAPRGVPQIEVTFDIDSDGIVHVSAKDLGSGKEQSMVVTGRHKLSEDEIKRMIEDAKRYEEQDKRLKEEIELKNRADDLAYSVEKTLKEHGDKIPADLKSRLEDMIRELRDAINRNDIPKVKMLFDDLQKESMKIGEYLYKSATGGETSNQ |
| 5576 | sp|Q5GSE1|DNAK\_WOLTR | MGRAIGIDLGTTNSCVAIQGKIIENKEGARTTPSVVAFTSSGERLIGAPAKRQATTNASNTFFATKRLIGRQYGDPEMKDLNVPYKVFAAKNGDAWIKTTDGKEYSPSQIGAFILQNLKEAAEAYLGEEVKDAVITVPAYFNDSQRQATKDAGKIAGLNVLRIVNEPTAAALAYGLDKKHGHTIVVYDLGGGTFDVSILEIGDGVFEVKATNGDTHLGGEDFDNAIVSYLLDEFKKSNGIGLKNDPMAMQRIKEAAEKAKIELSSAMETEINLPFITADANGPKHLNMKLTRAKLESLVNDLIERTMTPCKKALEDTGLSANQIGEVVLVGGMTRMPRVIEKVKEFFGKDPHRGVNPDEVVAIGAAIQAGIVQGDVRDVLLLDVTPLSLGIETLGGVFTPLIERNTTIPTKKSQVFSTAEDNQTAVTIKVHQGERKLAVDNKLLGQFSLEGIPPAPRGIPQIEVTFDIDANGIVHVSAKDKATGKEQKIRIQSSGGLSESEINRMIREAEEKAQEDEKRKKFVEVKNQADSLVHSTEKSLKEYGDKVSPEDKSAIENAVNELKEASKSDNIDDVDSIQQKITNLSQLSMKLGETIYKESQQQQGKESSAGSSTTNEEEKVVDSDYQDIDNKEENK |
| 5577 | sp|Q6I581|GH35\_ORYSJ | MTICSCEETINEFEMLTRDAARVQKDTLKKILEINASAEYLQNFGLGGRTDAESYKSCIPLCVHNDIEPYIQRIVDGDTSPVVTGEPITNLSLSSGTTHGKPKFIPFNDELLETTLQIYRTSYAFRNREYPIGQGKALQFVYGSKQVITKGGILATTATTNLYRRQRYKEGMKDIQSQCCSPDEVIFGPDFHQSLYCHLLCGLIYSEEVHSVFSTFAHSLVHAFQTFEEVWEDLCTDIRDGVLSKKVTAPSIREAVSKILKPNPELADSIYKKCIGLSNWYGVIPALWPNAKYVYGIMTGSMEPYLKKLRHYAGNLPLISADYGASEGWVGSNIDPTVPPEQVTYAVLPQVGYFEFIPLEKPIGEETENSASIHYIESDPVGLTEVEVGKIYEVVITNFAGLYRYRLGDVVKIARFHNSTPELQFICRRSLVLSINIDKNTEKDLQLAVEEASKFLEGEKLEVMDFTSFVERSSDPGRYVIFWELSGDASDEVLSSCANALDLAFIDAGYTGSRKIKTIGPLELRILRKGTFKEILDHFLSLGGAVSQFKTPRFVNPSNSKVLQILSRNVTQSYFSTAYGF |
| 5578 | sp|O48646|GPX6\_ARATH | MLRSSIRLLYIRRTSPLLRSLSSSSSSSSSKRFDSAKPLFNSHRIISLPISTTGAKLSRSEHSMAASSEPKSLYDFTVKDAKGNDVDLSIYKGKVLLIVNVASQCGLTNSNYTELAQLYEKYKGHGFEILAFPCNQFGNQEPGTNEEIVQFACTRFKAEYPIFDKVDVNGDKAAPVYKFLKSSKGGLFGDGIKWNFAKFLVDKDGNVVDRFAPTTSPLSIEKDVKKLLGVTA |
| 5579 | sp|Q65H53|GRPE\_BACLD | MAEEKQNEELNEQEELNETEAETAEAEQTAAEADAPAEETQTEMLEKQLKELQERLEEKENKLLRVQADFENYKRRARLDLEAAEKYRSQRIISDLLPALDNFERALQIDPDNEQTKSLLQGMEMVHRQILEALKNEGVEQIPSVGEQFDPNMHQAVMQVEDEAYESNAVVEELQKGYKLKDRVIRPSMVKVNQ |
| 5580 | sp|Q253K2|GRPE\_CHLFF | MTDSSNEHETENPSVPNPDNEIQDLQQEIATLKAELKEKNDKYLMVLAESENARKRMQKERQEMMQYAVENALIDFLVPIESMEKALGFASQMSDEVKNWALGFNMILQQFKQVFEEKGIVEYSSVGQKFNPFLHEAVETEETTKVPEGIIVEEFAKGYKIGDRPIRVAKVKVAKSPAPQEKEEEKK |
| 5581 | sp|P36424|GRPE\_CHLTR | MTETPNTSSEEIQTSEPSPDNELQVLQQENANLKAELQEQNDRYLMALAEAENSRKRLQKERTEMMQYAVENALMDFLPPIESMEKALGFASQTSEEVKNWAIGFQMILQQFKQIFEEKGVVEYSSKGELFNPYLHEAVEIEETTTIPEGTILEEFTKGYKIGDRPIRVAKVKVAKLPAKGNSDSNEEKE |
| 5582 | sp|A1K4C6|GRPE\_AZOSB | MPDPTQNPNVTPELEQHAAPEAAAEAAPESSADVMPSLEETLRQAELKAAEHYDAWLRAKAEGENIRRRAQEDIAKATKFAAEKFASAMVPVKDSLEAALAVENQTVEKLREGVELTLKQLVSAFEGAGLAEENPLGQKFDPNKHQAISAIEAEGEPNTVINVLQKGYLLHERVVRPALVVVSKAKAQ |
| 5583 | sp|Q634M6|GRPE\_BACCZ | MEERNEQVVEEVKEAQVEEAVTPENSEETVEEKSEAALLQEKVDELQAKLTETEGRTLRLQADFENYKRRVQMDKQAAEKYRAQSLVSDILPALDNFERAMQVEATDEQTKSLLQGMEMVHRQLLEALNKEGVEVIEAVGKQFDPNEHQAIMQVEDSEFESNAVVEEFQKGYKLKDRVIRPSMVKVNQ |
| 5584 | sp|Q04LY1|GRPE\_STRP2 | MAQDIKNEEVEEVQEEEVVETAEETTPEKSELDLANERADEFENKYLRAHAEMQNIQRRANEERQNLQRYRSQDLAKAILPSLDNLERALAVEGLTDDVKKGLAMVQESLIHALKEEGIEEIAADGEFDHNYHMAIQTLPGDDEHPVDTIAQVFQKGYKLHDRILRPAMVVVYN |
| 5585 | sp|Q6GGB9|GRPE\_STAAR | MTNKDESVEKNTESTVEETNVKQNIDDSVEQAEESKGHLQDEAIEETSDENVIEEIDPKDQKINELQQLADENEEKYLRLYAEFENYKRRIQKENEINKTYQAQRVLTDILPAIDNIERALQIEGDDETFKSLQKGVQMVHESLINALKDNGLEVIKTEGEAFDPNIHQAVVQDDNPDFESGEITQELQKGYKLKDRVLRPSMVKVNQ |
| 5586 | sp|P0DB48|GRPE\_STRP3 | MAVFNKLFKRRHSVSEEIKKDDLQEEVEATETEETVEEVIEETPEKSELELANERADEFENKYLRAHAEMQNIQRRSSEERQQLQRYRSQDLAKAILPSLDNLERALAVEGLTDDVKKGLEMTRDSLIQALKEEGVEEVEVDSFDHNFHMAVQTLPADDEHPADSIAEVFQKGYKLHERLLRPAMVVVYN |
| 5587 | sp|P80876|GS18\_BACSU | MGKKIAVVLTYYFEDSEYTEPAKAFKEAGHELTVIEKEKGKTVKGKQGTAEVTVDASIDDVNSSDFDALLIPGGFSPDQLRADDRFVQFTKAFMTDKKPVFAICHGPQLLINAKALDGRKATGYTSIRVDMENAGADVVDKEVVVCQDQLVTSRTPDDIPAFNRESLALLEK |
| 5588 | sp|Q56236|GRPE\_THET8 | MEERNHENTLEKDLEAVGQEAQALEERLKAAEEELKGLKDKYLRLLADFDNYRKRMEEELKAREREGVLKALRALLPVLDDLDRALEFAEASPESIRQGVRAIRDGFFRILAGLGVEEVPGEGEAFDPRYHEAVGLLPGEPGKVAKVFQRGFRMGEALVRPARVAVGEEKREEADLE |
| 5589 | sp|A1WGK0|GRPE\_VEREI | MSDNSPTTPSAPAPEEVEAAMAAHADDELARLQGELAELKAKSAELADQFLRAKAEAENARRRAEDEVAKARKFGIESFAESLLPVADSLDAALAIKEATPQQLREGADATLRQLTSTLERNKVLAINPAAGTKFDPHQHQAISVVPAEQEANTVVAVLQKGYVIAERVLRPALVTVSASK |
| 5590 | sp|Q93R28|GRPE\_TETHA | MSDKKKNAEEFEETFSDKTSEDESTVENETVEENENEDVQAISEVDDLKAQLDEMEDKYLRASAELSNMNNRFRNERQTLQRYRSQDLGKKLLPAIDNLERAVAIEVEGEQNESLKKGVEMTLESLRSAMQEEGIEEISAQGETFDPTLHQAVQTVPATEDHPAETVVEVLQKGYKIYDRVLRASMVVVAQ |
| 5591 | sp|Q8DJB3|GRPE\_THEEB | MHNPQSRGHNLSQAMSDQTVTNPAAEAQEGEITPDTPDTVDKVENTPVENVENPAEATPGEEDQASEATSANAADLLEQIAALEAAKASLSQVVEERNSQYIRLAADFENFRKRTQREKEELELQIKCSVIADLLPVVDSFELARTHIQTETEAEEKIHRSYQGVYKQLVECLKRIGVSAMQAKGKPFDPNLHEAVLREATNEHPEGTVIEELKRGYMLGDRVLRHAMVKVAAPPEEGSASNTNPTNDVTDV |
| 5592 | sp|B9KAB8|GRPE\_THENN | MSEKEKKDLSQECEELKEKYRELEEYAKRLKAEYENYREEVAREKRELIKNANEYLISRLIPILDDFERALNQKDHEESFYEGVKLIYKKLLNTLEKEGLSKIQVGETFDPFEYEAVERVETDDVEEYTVLEVLESGYKFHGKVLKPAKVKVAVRPRKKDEESPDKKE |
| 5593 | sp|B8GNX0|GRPE\_THISH | MSNEEQQQPNPAAQAPEGAVTEGAAPEFNPAVLLKQLEEAQAQAQEHFDKALRTQAEMENLRKRTARDVENARKFALEKFAGELLAVRDSLEMGLDAARGETDVEKIREGTELTLKMLAQVMEKFGVEAVDPQGQRFDPDRHQAMSMQPNAELEPNTVMAVLQKGYLLNDRLLRPAMVVVSKAPEGE |
| 5594 | sp|Q8TQR3|GRPE\_METAC | MKKSTKKESTHSKEESQTQAGNSEARKSGPSTKKAGEKTAEPEKATAGSGTEKSPEAACREENELLKDQLFRLAADFDNFKKRTARQMEENRKAVLEQVLLDFVEVTDNFERALKSAQTAEDMGSIVSGIEQLSKQFFSILQKYGLERIKCEKAGEFDPHRHEAVQHIETSEVPDNTIVDVYKPGYSLNEKVIRPALVSVARNPDETEK |
| 5595 | sp|B6JCI1|GRPE\_OLICO | MTDNDGQKDFSEAAAENAGSKPGEPRVSKPYIMPDDPEETPSEALVKEAAEAKDRMLRTLAEMENLRKRTQREVADARAYGIAGFARDVLEIADNLQRALDAVPAEARAAADPGLTALIEGVELTERSLHRALEKNGVKKLDAAGEKFDPNIHQAMFEVPDNSVPPGTVVQVIQTGYMIGDRVLRPALVGVSKAEPKPAA |
| 5596 | sp|P63188|GRPE\_RHIRD | MTDDTKKPGPDADVAEEFVDPAQAGEEQAETAEPDPVELLKAENADLRDKFLRLAAEMDNLRRRTERDVKDAKAYSLAGFARDMLAVSDNLRRALEAIPDELKTNGEAGLNGLIEGVEMTERSMLSTLERHGVKKIDAEGQKFDPNFHQAMFEVPNTAVPNNTVLQVIQAGFTIGDRVLRPAMVGVAKGGPKAEPSASAEPGTSSLNEKDA |
| 5597 | sp|Q0I2Y4|GRPE\_HAES1 | MSEQEKVEQEEISAELETQNEQEKPMEETEIQDGDALENAIARVQELEEQLIQAVKKEQDILLRTRAEIDNIRRRAEQDVEKAHKFALEKFAKDLLETIDNLERALSTPANVENETIKSLVDGVELTLKGLLSTVARFGVEPVGVIGETFNPELHQAISMQPTEGFESNQITVVLQKGYLLNGRVIRPAMVMVAQ |
| 5598 | sp|A2XFC7|APX1\_ORYSI | MAKNYPVVSAEYQEAVEKARQKLRALIAEKSCAPLMLRLAWHSAGTFDVSSKTGGPFGTMKTPAELSHAANAGLDIAVRMLEPIKEEIPTISYADFYQLAGVVAVEVSGGPAVPFHPGREDKPAPPPEGRLPDATKGSDHLRQVFGAQMGLSDQDIVALSGGHTLGRCHKERSGFEGPWTRNPLQFDNSYFTELLSGDKEGLLQLPSDKALLSDPAFCPLVEKYAADEKAFFEDYKEAHLKLSELGFADA |
| 5599 | sp|Q8WN61|ANGI\_AOTTR | MVMGLHLLLLVFILGLGLTPPTLAQNDIRYIKFLDQHYDPKTKNGNDKYCEKMMRLRNMISPCKEINTFIHGNKASIKAICGNQNGEPHNGNQRISKSAFQVTICRHIGGSPRPPCRYRATAGFRNLVVACENDLPVHLDESIFRP |
| 5600 | sp|Q9LVR0|ATB53\_ARATH | MDHGRLMDDQMMLGSQVYPYTTQPQNSHCIIVNQIDGGEESKPVKRRRKRRSKGSSATNEEDVAEIGGMLRKRKLTDEQVNMLEYSFGNEHKLESGRKEKIAGELGLDPRQVAVWFQNRRARWKNKKLEEEYAKLKNHHDNVVLGQCQLESQILKLTEQLSEAQSEIRKLSERLEEMPTNSSSSSLSVEANNAPTDFELAPETNYNIPFYMLDNNYLQSMEYWDGLYV |
| 5601 | sp|Q9NZJ5|E2AK3\_HUMAN | MERAISPGLLVRALLLLLLLLGLAARTVAAGRARGLPAPTAEAAFGLGAAAAPTSATRVPAAGAVAAAEVTVEDAEALPAAAGEQEPRGPEPDDETELRPRGRSLVIISTLDGRIAALDPENHGKKQWDLDVGSGSLVSSSLSKPEVFGNKMIIPSLDGALFQWDQDRESMETVPFTVESLLESSYKFGDDVVLVGGKSLTTYGLSAYSGKVRYICSALGCRQWDSDEMEQEEDILLLQRTQKTVRAVGPRSGNEKWNFSVGHFELRYIPDMETRAGFIESTFKPNENTEESKIISDVEEQEAAIMDIVIKVSVADWKVMAFSKKGGHLEWEYQFCTPIASAWLLKDGKVIPISLFDDTSYTSNDDVLEDEEDIVEAARGATENSVYLGMYRGQLYLQSSVRISEKFPSSPKALESVTNENAIIPLPTIKWKPLIHSPSRTPVLVGSDEFDKCLSNDKFSHEEYSNGALSILQYPYDNGYYLPYYKRERNKRSTQITVRFLDNPHYNKNIRKKDPVLLLHWWKEIVATILFCIIATTFIVRRLFHPHPHRQRKESETQCQTENKYDSVSGEANDSSWNDIKNSGYISRYLTDFEPIQCLGRGGFGVVFEAKNKVDDCNYAIKRIRLPNRELAREKVMREVKALAKLEHPGIVRYFNAWLEAPPEKWQEKMDEIWLKDESTDWPLSSPSPMDAPSVKIRRMDPFATKEHIEIIAPSPQRSRSFSVGISCDQTSSSESQFSPLEFSGMDHEDISESVDAAYNLQDSCLTDCDVEDGTMDGNDEGHSFELCPSEASPYVRSRERTSSSIVFEDSGCDNASSKEEPKTNRLHIGNHCANKLTAFKPTSSKSSSEATLSISPPRPTTLSLDLTKNTTEKLQPSSPKVYLYIQMQLCRKENLKDWMNGRCTIEERERSVCLHIFLQIAEAVEFLHSKGLMHRDLKPSNIFFTMDDVVKVGDFGLVTAMDQDEEEQTVLTPMPAYARHTGQVGTKLYMSPEQIHGNSYSHKVDIFSLGLILFELLYPFSTQMERVRTLTDVRNLKFPPLFTQKYPCEYVMVQDMLSPSPMERPEAINIIENAVFEDLDFPGKTVLRQRSRSLSSSGTKHSRQSNNSHSPLPSN |
| 5602 | sp|D4A7V9|E2AK4\_RAT | MAGGRGAAGRGPAEPQESYSQRQDHELQALEAIYGSDFQDLRPDARGRVREPPEINLVLYPQGLAGEEVYVQVELRVKCPPTYPDVVPEIELKNTKGLSNESVNLLKSHLEELAKKQCGEVMIFELAHHVQSFLSEHNKPPPKSFHEEMLERQAQEKQQRLLEARQKEEQEQREILHEIQKRKEEIKEEKKRKEMAKQERLEITSLTNQDHASKRDPAGHRAAAFLHGGSPDFVGNGKARAHSSGRSRRERQYSVCSGEASPGSCDILYFCVGSADQLMVHKGKCVGSDEQLGKVVYNALETATGSFVLLYEWVLQWQKKMGPCLTSQEKEKIDKCKKQIQGAETEFSSLVKLSHPNIVRYFAMNSREEKDSIVVDILAEHISGISLAAHLSHSGPVPMHQLRKYTAQLLAGLDYLHRNSVVHKVLSTASVLVDAEGTVKITDYSISKRLADICKEDVFEQTRVRFSDSALPYKTGKKGDVWRLGLLLLSLSQGQECEEYPVTIPSDLPADFQDFLKKCVCLDDKERWSPQQLLKHSFINPQPKMPLVEQSPEDSGGQDYIETIIPSNQLPSAAFFTETQRQFSRYFIEFEELQLLGKGAFGAVIKVQNKLDGCCYAVKRIPINPASRQFRRIKGEVTLLSRLHHENIVRYYNAWIERHERPAVPGTPPPDYIPQAQNSSATGGKASGDTEELGSVEAAAPPPILSSSVEWSTSAERSNSARFPVTGQDSSSDEEDEDERDGVFSQSFLPASDSDSDIIFDNEDENSKSQNQDEDCNEKDSRHEIEPSVTTEAVHYLYIQMEYCEKSTLRDTIDQGLFRDTSRLWRLFREILDGLAYIHEKGMIHRDLKPVNIFLDSDDHVKIGDFGLATDHLAFNAEGKQDDQAGDHVIKSDPSGHLTGMVGTALYVSPEVQGSTKSAYNQKVDLFSLGIILFEMSYHPMVTASERIFVLNQLRDPTSPKFPDDFEDGEHTKQKSVISWLLNHDPAKRPTAMELLKSELLPPPQMEESELHEVLHHTLANTDGKAYRTMMSQLFCQHSSPAIDYTYDSDILKGNFLIRTAKIQQLVCETIVRVFKRHGAVQLCTPLLLPRNRQIYEHNEAALFMDHSGMLVMLPFDLRVPFARYVARNNILNLKRYCIERVFRPRKLDRFHPKELLECAFDIVTSTANSSLPTAETIYTIYEVIQEFPALQERNYSIYLNHTMLLKAILLHCGIPEDKLSQVYVILYDAVTEKLTRREVEAKFCNLSLSSNSLCRLYKFIEQKGDLQDLTPTINSLIKQKTGIAQLVKYSLKDLEEVVGLLKKLGVKLQVSINLGLVYKVQQHNGIIFQFLAFSKRRQRVVPEILAAGGRYDLLIPKFRGPQALGPVPTAVGVSIAIDKIFAAVLNMGEPVTVSSCDLLVVSAGQMSMSRAINLTQKLWTAGITAEIMYDWSQSQEELQEYCRHHEITYVALVSDKEGSHVKVKSFEKERQTEKRVLESDLVDHVMQKLRTKVGDERNFRDASDNLAVQTLKGSFSNASGLFEIHGTTVVPTVSVISPEKLSASTRRRHEIQVQTRLQTTLANLHQKSSEIEILAVDLPKETILQFLSLEWDADEQAFNTTVKQLLSRLPKQRYLKLVCDEIYNIKVEKKVSVLFLYSYRDDYYRILF |
| 5603 | sp|P40491|FMC1\_YEAST | MDRPRTLRTYRGLIRAILKYERPSKIVNWGNLRKAMITKLEYAKKQNQRDSHENINRQLEKWKKLDPVSDRSLNLFIADSKSLRSILQNDIKWEKKVAQGQNVDEIFEHALDIIKFLDNQREYEELVDRYNPGNKLTQDEKVKRTANVVGLDVPT |
| 5604 | sp|P53889|FMP41\_YEAST | MSYNYLKAARKIICIGRNYAAHIKELNNSTPKQPFFFLKPTSSIVTPLSSSLVKTTRPANSTFNGLNEDGTNPGPIFIPRGVKVHHEIELALIVSKHLSNVTKMKPEEVYDSISGVALALDLTARNVQDEAKKKGLPWTISKGFDTFMPISAIVSREKFSSYKSNLQDIFRVKCSVNGQLRQDGGTNLMLHPLHKILQHISTMISLEPGDIILTGTPAGVGELKPGDRVHCELLQNNDNIVDMNFECENRPGPYEFRET |
| 5605 | sp|B7JN40|GRPE\_BACC0 | MEERNEQVVEEVKEAQVEEAVTPENSEETVEEKSEAALLQEKVDELQAKLTETEGRTLRLQADFENYKRRVQMDKQAAEKYRAQSLVSDILPALDNFERAMQVEATDEQTKSLLQGMEMVHRQLLEALNKEGVEVIEAVGKQFDPNEHQAIMQVEDSEFESNAVVEEFQKGYKLKDRVIRPSMVKVNQ |
| 5606 | sp|Q6G1E4|GRPE\_BARQU | MSDEKNKFTDASFENCDLKNPVDRDTLKKATDEFLKTHEAEIHSEVKEENNEVSDPLAALQDENKELKDQLLRLVADMENLRRRTARDVADAKAYSIANFARDMLSVSDNLNRALEAIPEGAKENDAGLKTLAEGVEMTERAMIAALERHGVQKIYPEGQKFDPHFHQAMFEIPNCDVPDNTVQQVVQAGYIIGERVLRPAIVGVAKGGTKGVPVESGSA |
| 5607 | sp|Q6MGQ3|GRPE\_BDEBA | MSEENNSQNSNPPNPENGEIASEIQKLQEQAEKFKNDYLYLRAEFENYKRNAIKERSELMKYGGERLVRDLLEVVDNFDRALSVNVSAENFNTFKQGVDMTAQELKSLLQRHNVIEIPAHGAPFDPSVHEALSSEATDQMAPGHIVRVFKKPYKLHDKVIRPGQVVVAKKPE |
| 5608 | sp|A9KG91|GRPE\_COXBN | MSSKNNPESETKAKNKWEKVMEAEEEQEEGGGDGSQEMEPHREGLEFPSREKLEGQLTRMEHKVDEYKTQYLRAQAEMDNLRKRIEREKADIIKFGSKQLITDLLPVADSLIHGLESPASEDPQVKSMRDGMSLTLDLLHNTLAKHGVQVINPNPGDPFDPALHEAMSVQAVPDAKPDTIIQVLQKGYQLNGRVLRAARVIVAG |
| 5609 | sp|Q8KCD7|GRPE\_CHLTE | MSRKHHKEQEEIQEQETISAGAAETPAEETAAIPAATEADMDAEISARDAEIQKLREEVMRRAAEFENFRKQKEREAALSGTRMLENIVRELLPLIDDLKRLMSHIPAEMQAMAEAKPFIEGVELIHKNFMSLLERKGVKEIEAKGKMLDVNFHEAITQIDAPGAEPDTIVEEYQTGYTLGDRVIRHAKVIVAK |
| 5610 | sp|B0BTB9|GRPE\_ACTPJ | MTAQNENAQAQAEQVEVANEAQLEQTAEVQQEQPVEAELAAAYARINELETYIAEADNREKDIQLRAQAEIQNIRRRAEQDVEKAHKFALEKFSKELLTVVDNLERGLNALDTAVTDEKTQALVDGVEMTHKEFISTLAKFGVEAVGVVGEAFNPEVHEAISMQPAEGIEANHISVVLQKGYTLQGRVLRPAMVMVAG |
| 5611 | sp|Q9KD73|GRPE\_BACHD | MVENEKTSVEETEEKAETEDEMLTEDPSNEDSDEANEEGNELSEEEKRIAELEGQVDELNQRLLRIQADYDNFRRRQREEKEAAAKYRAQSLIEELLPALDNFERALLVEPEQEETKTLLKGMEMVYRQVSEALKKEGLEVIETKGETFDPHLHQAVMQVEDAEFESNEIVEELQKGYKLKDRVIRPSMVKVNA |
| 5612 | sp|Q49Y23|GRPE\_STAS1 | MTEQNESAFNENEEVNEETSQTDSVENNDETTETSQDNLQEDDSQEIAEDVDPKDEEIQQLKKDVQENEEKYLRLYAEFENYKRRIQKENQTMKAYKAQDVLNDILPTIDNIERALQIDGEDEQFKSLKKGVEMVHESLLNALKNNGLEKIETEGQQFDPNVHQAVVQDDNPDFESGQITQELQSGYKLKERVLRPSMVKVNQ |
| 5613 | sp|Q97BG7|GRPE\_THEVO | MYSPSSSNYIKDPISTEIIKSKTRNLKKRAEEAILYRSIAEQSSRKLAEISEAYKHKLADMENYLKIKDRETEIIRKNANESLIKDFLPVIDSMDAAIQAEKDNNLIRIRDQMLSILSKYGLQPIKAEGEKFDPYLHEAIGMTQDGEDGKIKYEVQRGYTLNNSVLRTSKVIVVKR |
| 5614 | sp|P68892|GRPE\_STRP1 | MAVFNKLFKRRHSVSEEIKKDDLQEEVEATETEETVEEVIEETPEKSELELANERADEFENKYLRAHAEMQNIQRRSSEERQQLQRYRSQDLAKAILPSLDNLERALAVEGLTDDVKKGLEMTRDSLIQALKEEGVEEVEVDSFDHNFHMAVQTLPADDEHPADSIAEVFQKGYKLHERLLRPAMVVVYN |
| 5615 | sp|Q9SYX7|HA22B\_ARATH | MSSGIGSLVKVIFKNFDVIAGPVISLVYPLYASVRAIESRSHGDDKQWLTYWALYSLIKLFELTFFRLLEWIPLYPYAKLALTSWLVLPGMNGAAYLYEHYVRSFLLSPHTVNVWYVPAKKDDDLGATAGKFTPVNDSGAPQEKIVSSVDTSAKYVGHSAFDDAYIY |
| 5616 | sp|B1MZG7|GRPE\_LEUCK | MKEQQKETEQNIEEINDETVTEQIETDVDTLEKEAEVDPQQVEIEQLQSDVKELEDKLLRAQAEIQNIQQRHARELQTVRKYDGQKLAGAVLPAVDNLERALQVESEDAVTQQIKTGVEMTLGTLVQALRDNGISATGEVGETFDPTKHQAIQSVASDDVASDQIATVLQKGYMIQDRVLRPAMVAVAK |
| 5617 | sp|Q92BN7|GRPE\_LISIN | MSEKKNKKEKLAEEIEQEELNSLDESVETVEEEATEETLTEEQAKILELENKLDEVENRYLRMQADFENVKKRHIADRDASQKYRSQSLAQDLLPALDSFEKALATTSDQEEVKQILKGMEMVYNQILVAFEKEGIEVIPAVGEQFDPNFHQAVMQDSDENAGSNEITAELQKGYKLKDRVIRPSMVKVNQ |
| 5618 | sp|B2JGE4|GRPE\_PARP8 | MENTQENPTSQNPTPADEAARQAAEAASGEPQDQARQPAAAAGEQPAQAQPAGAEAALAEAQAKLAELQESFLRAKAETENVRRRGQEDVAKAHKFAIESFAEHLLPVMDSLEAAVAHSTDDLAKVREGVELTLRQLTGALEKGKVVALNPVGEKFDPHRHQAISMVPADQEPNTVVAVLQKGYVIADRVLRPALVTVAAPK |
| 5619 | sp|A1S8D5|GRPE\_SHEAM | MSNESTNPQQEPLEQVQDTEVVTDEAALVDELTQANFRIEELEQALAAAEAKVEEQKDSVVRAAAEVDNIRRRAAMDVEKANKFALEKFANELLPVLDNMERALAGTNAEDEATKAMYEGVSLTMKTLVNAVEKFGVKVVDPMGQPFNPEQHQAIGMQPNPEVPANHVMVVLQKGYELNGRLLRPAMVMVSQGGGVDTQA |
| 5620 | sp|A2BTV4|GRPE\_PROM5 | MIEEQSDNVENKDENVSMDNNISENLPIAEEQTNEDKKLPDDNNEKIDAEDLKNTITNNDARLEQLEKEHETLKSQYVRIAADFDNFRKRQSRDQDDLKIQLVSKALTAILPIVDNFERARQQLKPEGDEAQTLHRSYQGLYKQLVEVLKQQGVAPMRVVGQQFDPNLHEAVLREPSEEQNEDIIIEELQRGYHLEGKVLRHALVKVSMGPGQQISQESEEKDKVDKDIDSEGSISEEN |
| 5621 | sp|A4IR32|GRPE\_GEOTN | MEQGDKQATYNELETEQPVSKEGADSQPEDEAIGAASEHADAQAGENPEAASTTADPAEQTSVEAEELAKAKAQVAELEEKLAEMEKRYLRLYADFENFRRRARQEMEAAEKYRAQSLASDLLPVLDNFERALKIETENEQAKSILQGVEMVYRSLLDALRKEGVEVIEAVGKPFDPHLHQAVMQTDEGGYEPNTVVEELQKGYKLKDRILRPAMVKVSQ |
| 5622 | sp|B2TYN5|GRPE\_SHIB3 | MSSKEQKTPEGQAPEEIIMDQHEEIEAVEPEASAEQVDPRDEKIANLEAQLAEAQTRERDGILRVKAEMENLRRRTELDIEKAHKFALEKFINELLPVIDSLDRALEVADKANPDMSAMVEGIELTLKSMLDVVRKFGVEVIAETNVPLDPNVHQAIAMVESDDVAPGNVLGIMQKGYTLNGRTIRAAMVTVAKAKA |
| 5623 | sp|C4K2U3|GRPE\_RICPU | MIDDNIENNEQTINDIAEEIVETANPEVTALKAEIEELKDKLIRTTAEIDNTRKRLEKARDEAKDYAIATFAKELLNVSDNLSRALAHKPANSDVEVTNIIAGVQMTKDELDKVFHKHHIEEIKPEIGSMFDYNLHNAIAQIEHPDHAPNSIITLMQSGYKIRDRLLRPATVQVVKKP |
| 5624 | sp|Q3IDT7|HFQ\_PSEHT | MAKGQSLQDPFLNALRRERIPVSIFLVNGIKLQGKIQSFDQFVILLENTVNQMVYKHAISTVVPARAVNFQGVQENDDTEEPEAGNI |
| 5625 | sp|Q2P1M4|HFQ\_XANOM | MAKGQSLQDPFLNALRRERVPVSVYLVNGIKLQGTIESFDQFVVLLRNTVSQMVYKHAISTVVPARNVRVGPGGGYVQSNEGNQAEDDDVEQ |
| 5626 | sp|A1TM32|HFQ\_ACIAC | MSNKGQLLQDPFLNALRREHVPVSIYLVNGIKLQGQIESFDQYVVLLRNTVTQMVYKHAISTIVPGRAVNFSTAEPADAESGN |
| 5627 | sp|B9JF08|HFQ\_AGRRK | MAERSQNLQDLFLNTVRKQKISLTIFLINGVKLTGVVTSFDNFCVLLRRDGHSQLVYKHAISTIMPGQPMQMFESEEVAS |
| 5628 | sp|Q4QND2|HFQ\_HAEI8 | MAKGQSLQDPYLNALRRERIPVSIYLVNGIKLQGQIESFDQFVILLKNTVNQMVYKHAISTVVPARSVSHHNNNHHTTPTEAVENVETQAE |
| 5629 | sp|A5N8I8|HFQ\_CLOK5 | MSKPANNLQDIFLNGARKNRIPVIVYLTNGFQIRGIVKGFDNFTVILECDGKQMMVYKHALSTITPSKAILFNTPAGTDDRS |
| 5630 | sp|P58243|HFQ\_CLOAB | MNNKSTNNLQDIFLNSARKNKIPVAIHLTNGFQMRGSVKGFDSFTVILESDGKQMMIYKHAVSTITPLRPILFNQPQQDEE |
| 5631 | sp|B5Y332|HFQ\_KLEP3 | MAKGQSLQDPFLNALRRERVPVSIYLVNGIKLQGQIESFDQFVILLKNTVSQMVYKHAISTVVPSRPVSHHSNNAGGGSSNYHHGGSAQGSSAPQQDSDDAE |
| 5632 | sp|A0Q0M9|HFQ\_CLONN | MNKSTNNLQDLFLNNARINRISVTIFLTNGYKLEGLVKGFDNFTIILDNNGKQMMIYKHAVSTIIPKSPILFTNKEK |
| 5633 | sp|Q7W6Q2|HFQ\_BORPA | MSNKGQTLQDPFLNTLRKEHVPVSIYLVNGIKLQGQIESFDQYVVLLRNTVTQMVYKHAISTVVPARAVNFQVEVPAE |
| 5634 | sp|A1V4J5|HFQ\_BURMS | MSNKGQLLQDPFLNALRKEHVPVSIYLVNGIKLQGNIESFDQYVVLLRNTVTQMVYKHAISTVVPARPVNFHPDAEAAS |
| 5635 | sp|A1USH6|HFQ\_BARBK | MVERSQHLQDVFLKTVRKQEISLTIFLVNGVKLTGIVTSFDNFCILLRRDGHAQLVYKHAISTIMPGQPIKIFEGEGCE |
| 5636 | sp|B1ZEN4|HFQ\_METPB | MAGERAQNLQDTFLNHVRKNKIPLTIFLVNGVKLQGVVTWFDNFCVLLRRDGHSQLVYKHAISTIMPGHPVQLFEPDETAPEKA |
| 5637 | sp|Q8W3M0|EIL1B\_ORYSJ | MMGGGLVMDQGMMFPGVHNFVDLLQQNGGDKNLGFGALVPQTSSGEQCVMGEGDLVDPPPESFPDAGEDDSDDDVEDIEELERRMWRDRMKLKRLKELQLSRGKDPAGGVVGDPSKPRQSQEQARRKKMSRAQDGILKYMLKMMEVCRAQGFVYGIIPEKGKPVSGASDNLRGWWKEKVRFDRNGPAAIAKYQADNAVPGFESELASGTGSPHSLQELQDTTLGSLLSALMQHCDPPQRRYPLEKGVPPPWWPTGDEEWWPELGIPKDQGPPPYKKPHDLKKAWKVSVLTAVIKHMSPDIEKIRRLVRQSKCLQDKMTAKEISTWLAVVKQEEELYLKLNPGARPPAPTGGITSAISFNASSSEYDVDVVDDCKGDEAGNQKAVVVADPTAFNLGAAMLNDKFLMPASMKEEATDVEFIQKRSASGAEPELMLNNRVYTCHNVQCPHSDYGYGFLDRNARNSHQYTCKYNDPLQQSTENKPSPPAIFPATYNTPNQALNNLDFGLPMDGQRSITELMNMYDNNFVANKNLSNDNATIMERPNAVNPRIQIEEGFFGQGSGIGGSNGGVFEDVNGMMQQPQQTTPAQQQFFIRDDTPFGNQMGDINGASEFRFGSGFNMSGAVEYPGAMQGQQKNDGASEFEELE |
| 5638 | sp|O16850|FOXO\_CAEEL | MQLEQKSSLHCSKCRNFLQKFSQDMQAWNCRELDSPLPSDITLHNLEPARPDSGMSFSTDFDDDFFNLDLHQQERSASFGGVTQYSQQFLREKCSFSPYFHTSLETVDSGRTSLYGSNEQCGQLGGASSNGSTAMLHTPDGSNSHQTSFPSDFRMSESPDDTVSGKKTTTRRNAWGNMSYAELITTAIMASPEKRLTLAQVYEWMVQNVPYFRDKGDSNSSAGWKNSIRHNLSLHSRFMRIQNEGAGKSSWWVINPDAKPGRNPRRTRERSNTIETTTKAQLEKSRRGAKKRIKERALMGSLHSTLNGNSIAGSIQTISHDLYDDDSMQGAFDNVPSSFRPRTQSNLSIPGSSSRVSPAIGSDIYDDLEFPSWVGESVPAIPSDIVDRTDQMRIDATTHIGGVQIKQESKPIKTEPIAPPPSYHELNSVRGSCAQNPLLRNPIVPSTNFKPMPLPGAYGNYQNGGITPINWLSTSNSSPLPGIQSCGIVAAQHTVASSSALPIDLENLTLPDQPLMDTMDVDALIRHELSQAGGQHIHFDL |
| 5639 | sp|P25858|G3PC1\_ARATH | MADKKIRIGINGFGRIGRLVARVVLQRDDVELVAVNDPFITTEYMTYMFKYDSVHGQWKHNELKIKDEKTLLFGEKPVTVFGIRNPEDIPWAEAGADYVVESTGVFTDKDKAAAHLKGGAKKVVISAPSKDAPMFVVGVNEHEYKSDLDIVSNASCTTNCLAPLAKVINDRFGIVEGLMTTVHSITATQKTVDGPSMKDWRGGRAASFNIIPSSTGAAKAVGKVLPALNGKLTGMSFRVPTVDVSVVDLTVRLEKAATYDEIKKAIKEESEGKLKGILGYTEDDVVSTDFVGDNRSSIFDAKAGIALSDKFVKLVSWYDNEWGYSSRVVDLIVHMSKA |
| 5640 | sp|A0KMI7|GRPE\_AERHH | MNHEEQKVEAMEQVEAQPVEPTDVDSEVTAEQARIAELEAQLDAAQQASLEERERAIRAVAEMENLRRRAAQDVEKAHKFALEKFAAELLPVLDNLERAIELADKENEALKPMIEGVELTLKSMQSSVGKFGLNPLDPLNQPFDPNAHQAMSMIENAELAPNTVIAVMQKGYELNGRVIRPAMVMVSKAPA |
| 5641 | sp|Q8L399|GRPE\_ACHLA | MADKEKDAVIVDETEHVDVDSKESKKEKKTKQQQKIEFLEAEVKELNDKYLRTLAEAENFKKRIQAEKIMDRKYAASSFATELLVPYEQFSKIVDFPSDNELLNNFLIGFKMIRDQFKSVLENEGVVEIKALGEVFDAKVHHAIEKESNKDKPNGTVLEVLQNGYLFKDRILRPAMVKINEWSEDNGEDK |
| 5642 | sp|A9M7B6|GRPE\_BRUC2 | MADEKNKPENPDLDQRDINNPRDREALKQAADDFLKARRAEARAEAAADEAEGEVDETANRIAVLEADNTELKDQMLRVAAEMENLRKRTQRDVQDARAYAITNFARDMLSVSDNLRRALDAIPADALEADSNLKSLSEGVEMTERAMLLALERHGVKKLEPEGQKFDPNFHQAMFEVPNPDLPNNTVVQVVQAGYAIGDRVLRPAMVGVSKGGPKVSAENGASTSEDNA |
| 5643 | sp|P23575|GRPE\_CHLMU | MTETPNTSSEEIQTSEPSSDNELQTLQQENANLKAELKEKNDRYLMALAEAENSRKRLQKERTEMMQYAVENALLDFLPPMESMEKALGFASQTSDEVKNWAIGFQMILQQFKQVFEDKGVVEYSSKGELFNPYLHEAVEIEETTDIPEGTILEEFTKGYKIGDRPIRVAKVKVAKFPTKGNNDSNEEKE |
| 5644 | sp|Q6F6N4|GRPE\_ACIAD | MANEQNEQSQDLSSEQTTQDHEQTQTEGVEQGAEISVEDLKAQIGKLEESLKLEKARTANAVYEAEKVKERAEREADTAKKFALEKFAKSLLDSVDNLERAIQAAGKEKTPLLEGVELTLKSLTTTLEKFDVVSVDTTNGFNAELHQAVGIDPNAKSGEIGNVLQKGYTLSGRLLRPAMVTVGQ |
| 5645 | sp|Q14GW8|GRPE\_FRAT1 | MSKQEKSNVEDKSLDIETAAQVETAQESASGALEELSVEEQLERAKDTIKELEDSCDQFKDEALRAKAEMENIRKRAERDVSNARKFGIEKFSKELLPVIDSIEQALKHEVKLEEAIAMKEGIELTAKMLVDILKKNGVEELDPKGEKFDPNLHEAMAMIPNPEFEDNTIFDVFQKGYMLNGRIVRAAKVVIVKN |
| 5646 | sp|Q2A329|GRPE\_FRATH | MSKQEKSNVEDKSLDIETAAQVETAQESASGALEELSVEEQLERAKDTIKELEDSCDQFKDEALRAKAEMENIRKRAERDVSNARKFGIEKFAKELLPVIDSIEQALKHEVKLEEAIAMKEGIELTAKMLVDILKKNGVEELDPKGEKFDPNLHEAMAMIPNPEFEDNTIFDVFQKGYMLNGRIVRAAKVVIVKN |
| 5647 | sp|Q7VMB7|GRPE\_HAEDU | MTTEKETATPADVEVASQEEQIDQTTEAQVEEPSIEAELAGCYAKIHELETYIAEADKREQDIQLRAQAEIQNIRRRTEQDIEKAHKFALEKFAKELLTVVDNLERGLVALDTAVTDEKTQALVDGVEMTHKEFVSTLAKFGIEAIGEIGDVFNPELHQAISMQPAENIEANHLSQVLQKGYTLQGRVIRPAMVMVAA |
| 5648 | sp|B1JG65|GRPE\_YERPY | MSSKEQKTPNEQVSEEMENTAEQQVEATQETGECVDPRVAELEVQLSDALQRERESLLRAKAEVENIRRRTELDVEKAHKFALERFSSELLPVIDNLERALDTADKTNTELTSMIEGVELTLKSLLDAVGKFGIEVVGETHVPFNPEVHQAMTMLESADHEPNHVMMVMQKGYTLNGRLLRPAMVAVSKAKS |
| 5649 | sp|Q04VC9|GRPE\_LEPBJ | MAETSNSENKTSEEAKASEKNSRSITLEETKLENMNSEESTQTTESTQAQAAEAADSELSLQSELDAAKKEVESLKDSWARERAEFQNFKRRSAQEFVSIRKEAVKSLVSGFLNPIDNLERVGATQSPSEELKPFVEGVAMILKEFYAVLEKSNVIRFDPKGESFDPMSMEALSSEEGDQYSEETVIDVYQAGYYYKENEDKFTLRPARVRIGKPKS |
| 5650 | sp|A1KSH0|GRPE\_NEIMF | MSEQTQQQNSEEAVENVEAVETVETVGNADGVQEQAAAEPAYEDLQARIAELEAQLKDEQLRALANEQNLRRRHQQEIADTHKFAGQKFAVEMLPVKDYLEMALLDQSGNFDALKMGVQMTLNELQKAFDATQIKEINPKAGDKLDPNIHQAMQAVASEQEPNTVVGVMKKGYTLSDRVLRPAMVTVAQKEA |
| 5651 | sp|Q6LUA8|GRPE\_PHOPR | MNNEDKKLQDEQLQKETVEAAETVSAEEEFVEITAEEMQIARIAELEAALLSSDAKVKEAQDNVLRARAEGENVRRRSEVEIDKARKFALNKFTEELLPVIDNLERAIETADKNDEALKSMIEGVELTLKTMTATVEKFGLKQHNPVGEVFNPEFHQAMSIQESADHEPNTVMLVMQKGYELNGRIIRPAMVMVSKAAAGSVDMQA |
| 5652 | sp|Q6L0S8|GRPE\_PICTO | MMTYNKKYIDSVEYDLIETRKRMWMMERKKNEELLKKYQQAMSDLEDYKNLYMRQRSEMENYQRYIEKTINNIKANANADLIKTMLPVLDSLDAGILHDEKLKPIRSQLIKILSNYGLKEIESRGKKFDPYLNEVVGIVKGDDDIVVEEVQKGYILNNEVLRTSKVIVSKGGNNEQDNRN |
| 5653 | sp|Q17VY3|GRPE\_HELAH | MKDEHNQEHDLSQKELESCENSCTCEGKKQEASEKECEIKEDFELKYQEMHEKYLRVHADFENVKKRLERDKSMALEYAYEKIALDLLPVIDALLGAHKSASGDDKESALTKGLELTMEKLHEVLARHGIEGIECLEEFDPNFHNAIMQVKSEEKENGKIVQVLQQGYKYKGRVLRPAMVSIAKND |
| 5654 | sp|Q3KIA1|GRPE\_PSEPF | MADEQTVDTQNPEANQAPEASGDDLATRVQVLEEQLAAAQDQSLRVAADLQNVRRRAEQDVEKAHKFALEKFAGDLLPIVDSLERGLELSSPDDESIRPMREGIELTLKMFHDTLTRYQLVAVSPQEGEPFNAVEHQAMAMQESADLEPNSILKVFQKGYQLNGRLLRPAMVVVSKAPAPVSPSIDEKA |
| 5655 | sp|Q7CU92|CLPB\_AGRFC | MNIDKYSERVRGFLQSAQTFALAENHQQFSPEHVLKVLLDDEQGMAASLIERAGGDAKEARLANDAALAKLPKVSGGNGGLSLTAPLAKVFSTAEDLAKKAGDSFVTVERLLQALAIESSASTSASLKKAGATAQALNQVINDIRKGRTADSANAEQGFDALKKYARDLTEEAREGRLDPVIGRDDEIRRTIQVLSRRTKNNPVLIGEPGVGKTAIAEGLALRIVNGDVPESLKDKKLMALDMGALIAGAKYRGEFEERLKAVLNEVQAENGGIILFIDEMHTLVGAGKADGAMDASNLLKPALARGELHCVGATTLDEYRKHVEKDPALARRFQPVLVDEPNVEDTISILRGLKEKYEQHHKVRISDSALVAAATLSNRYITDRFLPDKAIDLMDEAASRLRMQVDSKPEELDELDRRIIQLKIEREALKQETDQSSVDRLRKLEDELADTEEKADALTARWQAEKQKLGHAADLKKRLDEARNELAIAQRNGQFQRAGELTYGIIPGLEKELAAAEARDSSGAGSMVQEVVTPDNIAHVVSRWTGIPVDKMLEGQREKLLRMEDELAKSVVGQGEAVQAVSKAVRRSRAGLQDPNRPIGSFIFLGPTGVGKTELTKSLARFLFDDETAMVRLDMSEYMEKHSVARLIGAPPGYVGYEEGGALTEAVRRRPYQVVLFDEIEKAHPDVFNVLLQVLDDGRLTDGQGRTVDFKNTIIIMTSNLGSEFMTQMGDNDDVDSVRELVMERVRSHFRPEFLNRIDDIILFHRLRRDEMGAIVEIQLKRLVSLLADRKITLELDEDARSWLANKGYDPAYGARPLKRVIQKSVQDRLAEMILGGEIPDGSRVKVTSGTDRLLFKVKPAKGEAETETADAA |
| 5656 | sp|Q7MVE7|CLPB\_PORGI | MNINNYTIKSQEALQQAVELTRRHGQQAIEPQHLLKAVMDQGESLTDFLFAKMGLNKGSIATAVDKLIEKLPHVSGGEPYLSHETNQVLQAAEDAAHRMKDKYVSLEHIVLAILTTRCEASTLLKDAGATEQLLQSAIEELRKGRNVTSQSAEEQYNALEKYAVNLCQRARDGKLDPVIGRDDEIRRVLQILSRRTKNNPILIGEPGVGKTAIAEGLAYRIVRGDVPENLRNKQIFSLDMGALIAGAKYKGEFEERLKAVVNEVTGAEGEIILFIDEIHTLVGAGKSEGAMDAANILKPALARGELRAIGATTLDEYRKYFEKDKALERRFQMVMVDEPDELSSISILRGLKEKYENHHKVRIKDDAIIAAVKLSHRYITERFLPDKAIDLMDEAAARLRMEVDSLPEELDEISRRIKQLEIEREAIKRENDEEKVQFLDREIAELKEKEASEKAQWQNEKDRINQIQQLKIDIEELKFQADRAEREGDYGRVAEIRYGLIKQKETEIDTIQQQLHELQRGGSMIKEEVEADDIADIVSRWTGIPVSRMLQSERDKLLHLEDELHKRVIGQDEAIRAVADAVRRSRAGLQDPKRPIGSFIFLGTTGVGKTELARALAELLFDDESMLTRIDMSEYQEKFSATRLIGAPPGYVGYDEGGQLTEAIRRKPYSVVLFDEIEKAHPDVFNVLLQVLDDGRLTDNKGHVVNFKNTLIIMTSNLGSDIIRERMQNLTAENRRSLTARTADEVMQLLKHTIRPEFLNRIDETIVFTPLTEKEIYEIVRLQLDGIVRQLADNDVVLHYTEAVVTFAAREGYDPQFGARPVKRVLQRFVLNELSKALLADTVDSTRPVLIDCIDGSIVFRNE |
| 5657 | sp|P71404|CLPB\_HELPY | MNLFEKMTDQLHETLDSALALALHHKNAEVTPMHMLFAMLNNSQGILIQALQKMPVDIQALRLSVQSELNKFAKVSQISKQNIQLNQALIQSLENAQGLMAKRGDSFIATDVYLLANMGLFESVLKPYLDAKELQKTLESLRKGRTIQDKNDDSNLESLEKFGIDLTQKALENKLDPVIGRDEEIIRMMQILIRKTKNNPILLGEPGVGKTAVVEGLAQRIMNKEVPKTLLNKRVIALDLSLLVAGAKYRGEFEERLKKVIEEVKKSANVILFIDEIHTIVGAGASEGGMDAANILKPALARGELHTIGATTLKEYRKYFEKDMALQRRFQPILLNEPSINEALQILRGLKETLETHHNITINDSALIASAKLSSRYITDRFLPDKAIDLIDEGAAQLKMQMESEPAKLSSVKRSIQRLEMEKQALEMEKKESNAKRMQEILKELSDLKEEKIQLEAQFENEKEVFKEISRLKMEMESLKKEAERFKRNGDYQQAGEIEYSKIPENKKKEEELQRKWEAMQQNGALLQNALTENNIAEIVSQWTHIPVQKMLQSEKNRVLNIESELQKRVVGQEKAIKAIAKAIKRNKAGLSDSNKPIGSFLFLGPTGVGKTESAKALAQFLFDSDKNLIRIDMSEYLEKHAMSRLIGAAPGYVGYEEGGQLTEAVRRKPYSVVLLDEVEKAHPDVFNLLLQVLDEGHLTDSKGVRVDFKNTILILTSNVASGALLEENLSEAEKQKAIKESLRQFFKPEFLNRLDEIISFNALDSHAVINIVGILFENIQKKALERGINITLDEEAKELIAEAGFDRFYGARPLKRALYEMVEDKLAELILEDKVKENDSVAFVVENNEIVPKIK |
| 5658 | sp|Q7V8B1|CLPB\_PROMM | MQPTADQFTEKGWAAIVLAQQLAQQRKHQQLETEHLLLSLLQQNALAGRILEKAGVSIGNLQTAVEAHLQEQPTMQAAPDSVYLGKGVNDLLDQAEKHKQAFGDSFISIEHLLLALAGDNRCGRKLLNQAGVDAGKLKVAIDAVRGNQKVTDQNPEGTYESLEKYGRDLSAAAREGKLDPVIGRDDEIRRTIQILSRRTKNNPVLIGEPGVGKTAIVEGLAQRIVNGDVPAALQNRQLITLDMGALIAGAKYRGEFEERLKAVLKEVTASEGQIVLFIDEIHTVVGAGATGGAMDASNLLKPMLARGELRCIGATTLDEHRQHIEKDPALERRFQQVLVDQPTVQDTISILRGLKERYEVHHGVRIADNALVAAAVLSSRYIADRFLPDKAIDLMDESAARLKMEITSKPEEIDEIDRKIVQLEMEKLSLGRESDSVSKERLEKLERELAELAEQQSALNAQWQQEKGAIDDLSSLKEEIERVQLQVEQAKRSYDLNKAAELEYGTLAGLQKQLSEKETALAQDGEAGDKSLLREEVTEDDIADVIAKWTGIPVAKLVQSEMEKLLGLEAELHQRVIGQEQAVQAVADAIQRSRAGLSDPNRPIASFLFLGPTGVGKTELSKALASQLFDSEAALVRIDMSEYMEKHSVSRLIGAPPGYVGYEAGGQLTEAVRRRPYAVILFDEVEKAHQDVFNVMLQILDDGRVTDGQGRTVDFTNTVLILTSNIGSQSILDLGGDDSQYREMERRVHDALHAHFRPEFLNRLDETIIFHSLRREELRQIVALQVNRLRERLCDRKLGLEISDTAADWLANAGYDPVYGARPLKRAIQRELETPIAKSILAGLYGDSQIVHVDVDVDQERLSFR |
| 5659 | sp|Q56922|CSPA\_YEREN | DKGFGFITPADGSKDVFVHFSAIQSNDFKTLDEGQKVEFSIENGAK |
| 5660 | sp|Q63GX5|CSHA\_BACCZ | MTTFRELGLSDSLLQSVESMGFEEATPIQAETIPHALQGKDIIGQAQTGTGKTAAFGLPLLDKVDTHKESVQGIVIAPTRELAIQVGEELYKIGKHKRVRILPIYGGQDINRQIRALKKHPHIIVGTPGRILDHINRKTLRLQNVETVVLDEADEMLNMGFIEDIEAILTDVPETHQTLLFSATMPDPIRRIAERFMTEPQHIKVKAKEVTMPNIQQFYLEVQEKKKFDVLTRLLDIQSPELAIVFGRTKRRVDELSEALNLRGYAAEGIHGDLTQAKRMSVLRKFKEGSIEVLVATDVAARGLDISGVTHVYNFDIPQDPESYVHRIGRTGRAGKKGIAMLFVTPRESGQLKNIERTTKRKMDRMDAPTLDEALEGQQRLIAEKLQSTIENENLAYYKRIAEEMLEENDSVTVVAAALKMMTKEPDTTPIALTSEPPVVARGGGSKKRGGNGGGYRDGNRNRSRDGRGGDGRNRDRNRDGRNRDGNRDRNREGSRDGNRGRRGEGQGRPGSSNGRGERKHHSRKPQA |
| 5661 | sp|Q5LWJ6|DNAK\_RUEPO | MGKVIGIDLGTTNSCVAIMDGAQPKVIENSEGARTTPSIVAFTDEERLVGQPAKRQAVTNPSNTIFGVKRLIGRRVDDAEVTKDKKMVPFTIVNGGNGDAWVEAKGEKYSPSQISAVILGKMKETAESYLGEEVTQAVITVPAYFNDAQRQATKDAGKIAGLEVLRIINEPTAAALAYGLDKKNSQTIAVYDLGGGTFDVTILEIDDGLFEVKSTNGDTFLGGEDFDMRIVNYLADEFKKEHGVDLSGDKMALQRLKEAAEKAKIELSSTTQTEINQPFISMGANGQPLHLVMKLTRAKLESLVGDLIKKSMDPCKAALKDAGISPSDVDEVVLVGGMTRMPKVFEEVTKFFGKEPHKGVNPDEVVAMGAAIQAGVLQGDVKDVVLLDVTPLSLGIETLGGVFTRLIDRNTTIPTKKSQVFSTAEDNQNAVTIRVFQGEREMAADNKILGQFNLEDIPPAPRGMPQIEVTFDIDANGIVSVSAKDKGTGKEHKITIQASGGLSDEDIEKMVKDAEENAEADKARKELVEARNQAESLIHSTEKSVEEHGDKVDPTTVEAIELAIAALKDDLDKDGVSAEKIKSGLQNVTEAAMKLGEAIYKAQSEGGDDEPAAADARPSDDDIVDAEFEDLGEDKRK |
| 5662 | sp|Q98QY7|DNAK\_MYCPU | MAKEIILGIDLGTTNSVVSIIENKKPVVLENFNGKRTTPSVVAFKNGEIQVGEIAKRQLETNPDTIASIKRLMGTTKTVKANGKTYKPEEISAMILSHLKEYAEKKVGKKLTKAVITVPAYFDNSQREATKIAGKIAGLDVLRIINEPTAAALSFGLDKKEKEMKVLVYDLGGGTFDVSVLELENGTFEVLSTSGDNHLGGDDWDHVIVEWLTKEIKNRYDFDPSKDKMVMTRLKEAAEKAKIDLSAQMVAQITLPFLSVTSKGPINVDLELKRSEFEKMTTHLVDRTRKPIEDALREAKIKASDLSEVLLVGGSTRIPAVQSMVEHVLGKKPNRSINPDEVVAIGAAIQGGVLAGDINDVLLLDVTPLTLGIETLGGVATPLIPRNTTIPVTKSQVFSTAADNQSEVTISVVQGERPMASDNKQLGQFNLSGIEPAPRGVPQIEVSFSIDVNGITTVKAKDLKTNKEQEITIKNSSKLSDEEVEKMVKEAEENREADKAKKEKVEVIVRAESLISQLEKSLVDQGDKVDAKAKEETQKQIQELKDLIKDDKIEELKVKLEQIEQAAQAFAQYSAQQAATENSKDSDTVEAEIVDDKAN |
| 5663 | sp|Q5WHG1|DNAK\_BACSK | MSKIIGIDLGTTNSCVAVMEGGEATVIPNPEGNRTTPSVVAFKDGERLVGEVAKRQAITNPNTVISIKRHMGTDYKVDIEGKSYSPQEISAIILQKLKADAEAYLGEKVTKAVITVPAYFNDSQRQATKDAGKIAGLEVDRIVNEPTAAALAYGLEKEDDQTILVYDLGGGTFDVSILELGDGFFEVKATSGDNKLGGDDFDEVIMDHLVAEFKKENGIDLSQDKMAMQRLKDAAEKAKKDLSGVTQTQISLPFITADATGPKHLELTLTRAKFDELSADLVERTLGPTRRALSDAGLSASDIDKVVLVGGSTRIPAVQEAIKKLTGKDPHKGVNPDEVVALGAAVQAGVLTGDVKDVVLLDVTPLSLGIETMGGVFTKLIERNTTIPTSKSQVFSTAADNQPSVDIHVLQGEREMAADNKTLGRFQLTDIPPAPRGVPQIEVTFDIDANGIVNVKAKDLGTNKEQSITITSSSGLSEEEIDKMVQEAEANAEADKKRREQVELRNEADQLVFSTEKTLKDLGDNVDQAEKDKAEAAKDKLKKALEADNTDDIKAAKDELQEIVTALTTKLYEQAAQAAQAQQDGGNESADKQDDNVVDADYEEVNDDDKK |
| 5664 | sp|B0B7W6|DNAK\_CHLT2 | MSEKRKSNKIIGIDLGTTNSCVSVMEGGQPKVIASSEGTRTTPSIVAFKGGETLVGIPAKRQAVTNPEKTLASTKRFIGRKFSEVESEIKTVPYKVAPNSKGDAVFDVEQKLYTPEEIGAQILMKMKETAEAYLGETVTEAVITVPAYFNDSQRASTKDAGRIAGLDVKRIIPEPTAAALAYGIDKEGDKKIAVFDLGGGTFDISILEIGDGVFEVLSTNGDTHLGGDDFDGVIINWMLDEFKKQEGIDLSKDNMALQRLKDAAEKAKIELSGVSSTEINQPFITIDANGPKHLALTLTRAQFEHLASSLIERTKQPCAQALKDAKLSASDIDDVLLVGGMSRMPAVQAVVKEIFGKEPNKGVNPDEVVAIGAAIQGGVLGGEVKDVLLLDVIPLSLGIETLGGVMTPLVERNTTIPTQKKQIFSTAADNQPAVTIVVLQGERPMAKDNKEIGRFDLTDIPPAPRGHPQIEVTFDIDANGILHVSAKDAASGREQKIRIEASSGLKEDEIQQMIRDAELHKEEDKQRKEASDVKNEADGMIFRAEKAVKDYHDKIPAELVKEIEEHIEKVRQAIKEDASTTAIKAASDELSTRMQKIGEAMQAQSASAAASSAANAQGGPNINSEDLKKHSFSTRPPAGGSASSTDNIEDADVEIVDKPE |
| 5665 | sp|B7J282|DNAK\_BORBZ | MGKIIGIDLGTTNSCVAIMEHGKPVVIQNSEGGRTTPSIVAYTNKGERLVGQVAKNQMVTNPENTIYSIKRFMGRRFEEVASEIKMVPYKIEKGLNGDARVNISNIKKQMSPPEISAATLTKMKETAEAYLGEKVTEAVITVPAYFNDAQRQATKDAGKIAGLEVKRIVNEPTAAALAYGIEKKHEEIVAVYDLGGGTFDISILELGDGVFEVKSTNGDTHLGGDNFDDEIIKHLISEFKKESAIDLSNDKMALQRLKEAAEKAKIELSGAQEASINLPFITADANGPKHLQYTLTRAKFEQMVDHLVQKTKEPCLKAIKDAGLKASDINEVILVGGSTRIPAIQKIVKDIFGQDPNKGVNPDEAVAIGAAIQGGILTGETKDMVLLDVTPLSLGIETLGGVMTKLIERNTTIPTKKSQVFSTAADNQTSVDIKVLQGEREMAAQNRILGNFILDGIPAAPRGVPQIEVSFDIDANGIVHVSAKDMGTGKEQKIRIESSSGLSESEIDRMVKDAEAHAEEDKKLKENIEAKNTANSLIYQTEKSLKEYSEKISSEDKEAIESKIKELKESLEKEDISLIKSRTEELQKASYKIAEMMYKDSSQQNANSQQENGPQSNTSEEGKEADYEVVDEDKK |
| 5666 | sp|Q2A328|DNAK\_FRATH | MGKIIGIDLGTTNSCLAIMDGKTAKVIENAEGHRTTPSVVAYTDSGEILVGQAAKRQAVTNPDNTFFAIKRLIGRKYDDKAVQEDIKKKVPYAVIKADNGDAWVATKEGKKMAPPQVSAEVLRKMKKTAEDYLGEPVTEAVITVPAYFNDSQRQATKDAGKIAGLEVKRIINEPTAAALAYGVDSKKGEQTVAVYDLGGGTFDISIIEIADVDGDNQIEVLSTNGDTFLGGEDFDLALMNYLIDEFKKEQGIDLHNDKLALQRVREAAEKAKVELSSAQQTDVNLPYITADATGPKHLNIKVTRAKFESLVSDLVMRSLEPCKKALEDAGLSKSDITEVLLVGGQTRMPLVQEKVKEFFGKEPRKDVNPDEAVAVGAAIQGGVLAGDVKDVLLLDVTPLSLGIETMGGVMTKLIERNTTIPTKKSQVFSTAEDNQPAVTIHVLQGEREMASANKSLGRFDLADIPPAPRGMPQIEVTFDIDANGILNVSAKDKATGKEQNIVIKSSSGLSEEDIEKMVQDAEANAEADKKFHDLVTARNTADNLIHSSRKAIQELGDKVTAAEKEKIEEACKELEAATKGDDKQAIEAKTKALEEAFAPIAQKAYAEQAQAAGAQGGAKAEEPKKEEDVVDADFEDVEDDKK |
| 5667 | sp|Q0BWZ9|DNAK\_HYPNA | MSKIIGIDLGTTNSCVAVMEGGQAKVIENAEGARTTPSVVAFTENGDRLIGQPARRQGVTNPDFTFYAIKRLIGRTFDDPTAQKDKAMSPFSIVKAPNGDAWVKGRDKDYSPQEISAFILTKMKETAEAYLGSKVTQAVITVPAYFNDAQRQATKDAGRIAGLEVLRIINEPTAAALAYGLDKGGNKTIAVYDLGGGTFDVSLLEIGDGVFEVLSTNGDTFLGGEDFDLRVVDFLASEFKKEQGIDLKGDKLALQRLKEEAEKAKKELSSATQYEVNLPFITADATGPKHLNIKLTRAKFESLVEDLVKRTIDPCQKALKDAGKTPAQIDEVVLVGGMTRMPAVQEAVKKFFNREPHKGVNPDEVVAIGAAIQGGVLQGDVKDVVLLDVTPLSLGIETLGGIFTRLIERNTTIPTKKSQVFSTAEDNQPAVTIKVAQGEREMASDNKQLGQFNLEGIAPAPRGLPQIEVTFDIDANGIVSVSAKDKATGKEQQITIQADGGLSEADIKNMMADAESNASTDKARRELVEAKNHAEALIHQTEKQLIEHGAKVTDAIKGDIEKAIADLKEAAAGDNAADIAAKHQALMNAAMKLGEAIYAAQGADAGEGEDAPQSGNDDVVDADFEEVDERK |
| 5668 | sp|Q57AD7|DNAK\_BRUAB | MAKVIGIDLGTTNSCVAVMDGKNAKVIENAEGARTTPSIIAFTDGDERLAGQPAKRQAVTNPEGTLFAVKRLIGRRYDDPMVTKDKDLVPYKIVKGDNGDAWVEVHGKKYSPSQISAMILQKMKETAESYLGETVTQAVITVPAYFNDAQRQATKDAGKIAGLEVLRIINEPTAAALAYGLDKSEGKTIAVYDLGGGTFDVSVLEIGDGVFEVKSTNGDTFLGGEDFDIRLVEYLVAEFKKESGIDLKNDKLALQRLKEAAEKAKIELSSSQQTEINLPFITADQTGPKHLAIKLSRAKFESLVDDLVQRTVEPCKAALKDAGLKAGEIDEVVLVGGMTRMPKIQEVVKAFFGKEPHKGVNPDEVVAMGAAIQGGVLQGDVKDVLLLDVTPLSLGIETLGGVFTRLIERNTTIPTKKSQTFSTAEDNQSAVTIRVFQGEREMAADNKLLGQFDLVGIPPAPRGVPQIEVTFDIDANGIVNVSAKDKGTGKEHQIRIQASGGLSDADIEKMVKDAEANAEADKKRRESVEAKNQAESLVHSTEKSLAEYGDKVSADDKKAIEDAIAALKTSLEGEDAEDIKAKTQALAEVSMKLGQAMYEAAQAAEGAGAEGGEQASSSKDDVVDADYEEIDDNKKSS |
| 5669 | sp|Q9CMS2|DNAJ\_PASMU | MAKKDYYDVLGVERGADEKEIKRAYKKLAMKYHPDRTQGNKELEEKFKEIQEAYEVLSDKQKRANYDQYGHAAFEQGGFGGGGFSGADFGDIFGDMFGDIFGGGRARQRVVRGDDLRYDLEISLEEAVRGTTKDIQINTLAHCDSCDGSGAEKGSKVETCSTCHGAGRVRRQQGFFVTEQVCPSCHGSGKKIEKPCKSCHGDGRVHKKKNLSVKIPAGVDTGNQLRLSGEGAAGENGAPNGDLYVVIHVRDHHIFERDGSNLYCEVPISFTMAALGGEIEVPTLDGRVKLKIPAETQTGKLFRMRGKGVTSARSAYAGDLICKIIVETPVKLNEEQKALLRQLEESLEGSSNKPKSSSFFDGVKKFFDNLGK |
| 5670 | sp|Q2SMM8|DNAK\_HAHCH | MGKIIGIDLGTTNSCVAILEGDKPRVIENSEGGRTTPSIVAYTDDETLVGQSAKRQAVTNPTNTLFAIKRLIGRRFEDDVVQKDIKMVPYTIAKADNGDAWVDVKGKKMAPPQISAEVLKKMKKTAEDFLGEKVTEAVITVPAYFNDAQRQATKDAGRIAGLEVKRIINEPTAAALAYGMDKKGGDRKVAVYDLGGGTFDISIIEIADVDGEMQFEVLATNGDTFLGGEDFDLRLIDYLAQEFKKDSGIDLKGDPLAMQRLKEAAEKAKIELSSSQQTDVNLPYITADASGPKHLNVKVTRAKLESLVEELVERSLEPCRIALKDSGCSSSEIDEVILVGGQTRMPLVQSKVADFFGKEARKDVNPDEAVAIGAAIQGAVLSGDVKDVLLLDVTPLSLSIETMGGVSTPIIEKNTTIPTKKSQVFSTAEDNQTAVTIHVLQGERKQAQMNKSLGRFDLTGLPPAPRGVPQVEVTFDIDANGIMHVSAKDKATGKEQSIVIKASSGLSEDEIDKMVQDAEAHAAEDKKFEELAASRNQADALVHATQKTLKDAGDKVTAEEKVAIEAAIKELEEAIKGDDKEAIESRMQKLSEASSSMAQKMYAEQAAQQGGDAGAQAEDAAGKPADDAVDAEFEEVKDGDKK |
| 5671 | sp|Q5LWJ5|DNAJ\_RUEPO | MSKRDYYDVLGVSKGASADEIKKAYRGKAKELHPDRNKDNPDAESLFKEVNEAYEVLKDAEKKAAYDRFGHAAFEGGMGGGQRPGGGFGSGDFSSAFSDVFEDLFGDFMGGQRGGGGRRAARGSDLRYNLRVTLEEAFSGLQKTINVPTAVACSSCEGTGAEGGVEPTTCPTCSGMGKVRAQQGFFTVERTCPTCSGLGQIIKNPCKSCRGQGRVEKDRALSVNIPAGVETGTRIRLAGEGEAGMRGGPPGDLYIFVEVAKHELFERDGVNLYCRVPVSMAKAALGGAIEVPTIDGGRGRVQVPAGSQSGRQMRLRSKGMPALRGGGIGDMFIELAVETPVNLTSKQKDLLREFDELSEDNNPETKSFFSSVKSFWDGMKG |
| 5672 | sp|B2GBQ6|DNAJ\_LACF3 | MAEEDLYDVLGVKKDASEAEIKRAYRKLAAKYHPDVNHEPGAEKKFKKINEAYETLSDDQKRAQYDQFGTTGSQAGGFGGQGGFGGFGQGGFSQGGFGDFSDIFGDIFGGGRARRDPSAPQQGRDLQYTMTLDFMDAVFGKETSIKYNRSAECHTCHGSGAKPGKSAHTCSTCHGQGYVLRQRQTMMGMMQSQEVCPTCGGKGQVIDPADQCDTCHGAGVTEERHELKVKVPQGIDDGQQMRLQGQGEAGKNGGPYGDLYIVFRVTPSRDFKRDGNTIYVDQDISISQATLGDHVQAKTVHGDVDLKIPAGTQSETKFRLRGKGVPRVNGNGNGDEYVTVHVKTPKTLNKRQREAMLAFAAASGEDVKGVKAGFFDKLKDAFEDNK |
| 5673 | sp|A8GR21|DNAJ\_RICRS | MSQNYYQILGVSKTASQADLKKAYLKLAKQYHPDTTDAKDAEKKFKAINAAYDVLKDEQKRAAYDRLGHDAFQNQQSRGGGGNHGGFHPDINDIFGDFFSDFMGGSRRSSRPTSAKVRGSDLKYNLTINLEEAFHGIEKNINFSSAVKCNTCHGSGSEKGETVTTCDACSGVGATRMQQGFFTIEQACHKCQGNGHIIKNPCKKCHGMGRYHKQRNLSVNIPAGVENGTRIRHTGEGEAGIRGGNSGDLYVDITIKPHDIYKVDGANLHCKLPISFVNAALGGEIEVPVIEGGKVSLTIPAGTQNGDQLRLRSKGMSKMRSTIRGDMLTHIHVEVPKNLSKRQRELLEEFKKESINEKENDGSFFNKMKSLWS |
| 5674 | sp|O85282|DNAK\_NEOSE | MAGEIAIGIDLGTTNSCVAIKDKVIENAEGARTTPSVVAFTSDGQTLVGAPAQRQAVTNAKNTIVASKRLIGRRFKDNVIKGIQKDYPYKIVEAKNGDAWIEAGGKSYSPSQVGANVLIKLKEAAETYTGKKVTKAVITVPAYFDDAQRTATKDAGRIAGLEVLRIINEPTAAALAYGLDKTATTKNIAVFDLGGGTFDVSILELGDGVFEVKATNGDTHLGGEDFDRMILNFLVEEFKKENGMDLKNDPLALQRLKEAAEKAKKELSSTQETDINLPYITADAAGPKHLNVKFTRAKLESLVSDLIDRTIEPCKKALKDSGLKREEINEVVLVGGMTRMPAVVKKVTEFFGKEPHKGVNPDEVVAIGAAIQANILAGGSDAQDIVLLDVTPLSLGIETLGGVFTKLIDRNTTIPTKRSQTFSTAEDNQSAVTIRVFQGERQMASDNKLLGQFSLGGIPPAPRGMPQIEVTFDIDANGIVHVSAKDKGTGKEQTVKIQASGGLTEEEIKKMVDEAASKADEDKKRRELVEAKNSAESLIHSTEKSLSEYGSKISSSDKQSIDDAISDLKSVLAKDDASLIKEKTDALSKVSMKLGEAMYKESQSASNDSSPKNDSTEEGERVVDPEYEEVKDEDSK |
| 5675 | sp|Q8CXD3|DNAJ\_OCEIH | MGKRDYYEILGIDKSASQDEIKKNYRKLARKYHPDVNKEADAAEKFKEVKEAYEVLSDDQKRAQYDQFGHSGPQSQGFGGFGGGAQDFGGFGDIFDMFFGGGGRSRDPNAPQQGNDLQYTMILDFEEAVFGKETDIEIPKEESCDTCNGSGAKPGTKPETCSHCHGSGQLNQEQNTPFGRVVNRRVCNYCQGTGKIIPDKCNTCGGSGTVQKNKKIHISIPAGIDEGQQIRVAGKGESGKNGGPAGDLFVVIKVRPHDFFVREGDHIFCELPLTYAQAALGDELEVPTVHGKVKVKVPAGTQTGKTFRIKGKGAPNVRGRGHGDQHIKIKVMTPTNLSEKQKDLLREFNELGGNESTDEQDDNIFQRFRRAFKGE |
| 5676 | sp|B1WVR2|DNAJ\_CROS5 | MPGDYYDILGVDRNASKEDLKRAYRRLARKYHPDVNKEPGAEERFKEINRAYEVLSEPDTRSRYDQFGEAGVSGAGGFNYGDMGDMGGFADIFETIFSGFGGGMGTGGTRRRTGPVKGDDLRLDLKLDFREAVFGGEKEIRIPHLETCQVCKGDGAKPGTGAKTCSTCNGQGQVRRATRTPFGSFAQVSACPACNGQGQVIEEKCEVCNGAGRRQVTEKVKITIPAGVDDGTRLRVSRKGDAGLRGGPQGDLYVYLYVEPDKVFTRDKMNILSEITISYLQAILGCTVTVDTVDGEQELTIPAGTQPNTILTLENLGVPKLGNDAIRGDHLITVKVDIPTRINAEERELLEKLAHIKGQSHGKGGLEGFLGSLFHK |
| 5677 | sp|Q0RBC4|DNAK\_FRAAA | MARAVGIDLGTTNSVVSVLEGGEPTVIANAEGSRTTPSVVAFAKNGEVLVGEVAKRQAVTNVERTIRSVKRHMGTDWKMKVDAKDLTPQEISAFILQKLKRDAESYLGETVADAVITVPAYFDDAQRQATTEAGTIAGLNVLRIVNEPTAAALAYGLDKGEKEQTILVFDLGGGTFDVSLLEIGDGVVEVKSTSGDTHLGGDDWDQRITDHLIKTFNGQHGVDLGKDKMALQRLREAAEKAKIELSQSSQTSINLPYITASAEGPLHLDVSLTRAEFQRMTSDLIDRCKHPFQQAVKDAGIKVSDIDHVVLVGGSTRMPAVVDLVRDLTGGKEPNKGVNPDEVVAVGASLQAGVLKGEVKDVLLLDVTPLSLGIETKGGIMTKLIERNTTIPTKRSEIFTTAEDSQPSVQIQVFQGEREMAAYNKKLGMFELTGLPPAPRGLPQIEVTFDIDANGIVHVSAKDLGTGKEQSMTITGGSALPRDDIDRMVRDAEQYAEEDRNRREEAETRNKAETLVYSTERFLAENGEKIDAAVKSDVEEKLGTLRGAVAGTDTAAIREAADALAAASQAMGQAMYEQAAQDGAGAPGSGGPADDDVVDAEIVDEEDKK |
| 5678 | sp|Q5FSL4|DNAJ\_GLUOX | MATRIDYYESLEVSRTASQDELKKAFRKQAMRYHPDRNPGDDAAEQKFKEINEAYDVLKDEQKRAAYDRYGHDAFEGGMGGMGGGFGGGFAGAGGLGDIFDQMFGDMMGGRRDGGRRTGADVQVQVEITLMEAFTGVTKDVEVRTRVTCEACHGSGSADPKAGSSTCPTCHGAGKVRAQQGFFLVERPCPTCHGSGRTVANPCKVCHGTGTEAKTETISIDIPAGVEDGTRIRMAGKGEAGGEGVQPGDLYVHISVLSHDIFQRDGANIYCRVPLRMTQAALGTEVEVPVVDGGRSKVRIPAGTQTGETFRLRGKGFSVLRSSARGDMYIQVSVETPSHLTKRQRELLEEFEKEAGDDHAKGSPENSGFFAKVRDFFEGR |
| 5679 | sp|P80869|DHG2\_BACSU | MYKDLTGKTAIVTGSSKGIGKAIAERFGKEKMNVVVNYHSDPSGADETLEIIKQNGGKAVSVEADVSKEEGIQALLDTALEHFGTLDVMVNNSGFNGVEAMPHEMSLEDWQRVIDVNVTGTFLGAKAALNHMMKNNIKGNVLNISSVHQQIPRPVNVQYSTSKGGIKMMTETLALNYADKGIRVNAIAPGTIATESNVDTKKEESRQKQLKKIPMKAFGKPEEVAAAAAWLVSEEASYVTGATLFVDGGMTLYPSQLE |
| 5680 | sp|Q74H58|DNAJ\_GEOSL | MAADKRDYYEVLGVHKNASDTEIKKAFRKLAIQYHPDKNPDDKEAEEKFKEITEAYEVLSDPQKRAQYDQFGHAGVGAGGFSGGGFGGFGAGTPFGDIFGDIFGDIFGGRPRGSRGRRGDDLQYNMELSFEEAAFGAEKEIQVPYGKRCGDCGGSGAKPGTEPKVCPTCRGAGQVRFQQGFFSVSKTCNHCNGEGRVVENPCTSCRGSGMIRDTKTLSVKVPAGVETGTRLKLSGEGGQGIKGGGNGDLYVAIAVREHPIFTREDNDVLCEIPVSFVQAALGCEIEVPTLDGKVSMKIPEGTQSGRIFRLRGKGVPQLQGYGRGDQLVIIKVETPSNLNKRQRELLEEFARISGEDVHPMKKSFFDKVMDFIS |
| 5681 | sp|B2U233|DNAJ\_SHIB3 | MAKQDYYEILGVSKTAEEREIKKAYKRLAMKYHPDRNQGDKEAEAKFKEIKEAYEVLTDSQKRAAYDQYGHAAFEQGGMGGGGFGGGADFSDIFGDVFGDIFGGGRGRQRAARGADLRYNMELTLEEAVRGVTKEIRIPTLEECDVCHGSGAKPGTQPQTCPTCHGSGQVQMRQGFFAVQQTCPHCQGRGTLIKDPCNKCHGHGRVERSKTLSVKIPAGVDTGDRIRLAGEGEAGQHGAPAGDLYVQVQVKQHPIFEREGNNLYCEVPINFAMAALGGEIEVPTLDGRVKLKVPGETQTGKLFRMRGKGVKSVRGGAQGDLLCRVVVETPVGLNEKQKQLLQELQESFGGPTGEHNSPRSKSFFDGVKKFFDDLTR |
| 5682 | sp|Q57TP2|DNAJ\_SALCH | MAKRDYYEILGVSKTAEEREIKKAYKRLAMKYHPDRNQGDKEAEAKFKEIKEAYEVLTDAQKRAAYDQYGHAAFEQGGMGGGFGGGFNGGADFSDIFGDVFGDIFGGGRGRQRAARGADLRYNMDLTLEEAVRGVTKEIRIPTLEECDVCHGSGAKAGTQPQTCPTCHGSGQVQMRQGFFAVQQTCPHCQGRGTLIKDPCHKCHGHGRVEKSKTLSVKIPAGVDTGDRIRLAGEGEAGEHGAPAGDLYVQVQVKQHPIFEREGNNLYCEVPINFAMAALGGEIEVPTLDGRVMLKVPSETQTGKLFRMRGKGVKSVRGGAQGDLLCRVVVETPVGLSEKQKQLLKDLQESFGGPTGEKNSPRSKSFFDGVKKFFDDLTR |
| 5683 | sp|B2FMY5|DNAK\_STRMK | MGKIIGIDLGTTNSCVAIMDGGKARVIENSEGDRTTPSIVAYTKDGEVLVGASAKRQAVTNPKNTFYAVKRLIGRKFTDAEVQKDIAHVPYSILAHDNGDAWVATSDGKKMAPQEISAKVLEKMKKTAEDFLGEKVTEAVITVPAYFNDSQRQATKDAGRIAGLDVKRIINEPTAAALAYGLDKGDNKDRKIVVYDLGGGTFDVSVIEIANVDGEKQFEVLATNGDTFLGGEDFDNRVIEYLVEEFNKDQGIDLRKDPLALQRLKDAAERAKIELSSAQQTEVNLPYVTADASGPKHLNIKLTRAKLEALVDDLIKKSIEPCRVALNDAGLRSSDISEVILVGGQTRMPKVQQAVTEFFGKEPRKDVNPDEAVALGAAIQGGVLGGDVKDVLLLDVTPLSLGIETMGGVFTKIIEKNTTIPTKASQVFSTAEDNQSAVTVHVLQGEREQARFNKSLAKFDLSGIEPAPRGLPQVEVSFDIDANGILHVSAKDKKTNKEQKVEIKAGSGLSEEEIARMVADAEANREEDKKFQELVQARNQADALIHGTRSAITEHGSKVGGDVIGKVEAALADLETAMKGDDKAQIEAKSKALEEAGQSLFAAASADQGGAPGADAGNAGKAQDDVVDAEFTEVKDDKKS |
| 5684 | sp|A5IDK7|DNAJ\_LEGPC | MEQRDYYELLEVSRNASDAEIKKAYRRLAMKYHPDRNPGDTSAEEKFKEIQKAYNILSDKQKRAAYDQFGHAGVDPSMGGGPGGFGGFGGFGDVFEDIFENIFSGGRGHGRQSRGQRGADLQFNVQLTLEEAAIGKEVEITVPRHGTCTVCEGSGAKKGTSPKTCETCQGMGQVRIQQGFFSIQQTCPTCHGEGKIISDPCASCHGQGRVRESKKINVKIPAGVDNGDRVRLSGEGEAGVHGGGSGDLYVQISLKKHAIFERHENDLHCEVPISFATAALGGSIEVPTLEGRVTLKIPAETQTGKVFRLRSKGMKSVRGYGQGDLLCKVVVETPVNLSREQKELLNKLQDSLENAKGTHSPKTSSWFAGVKKFFEDMKF |
| 5685 | sp|Q21997|DERL2\_CAEEL | MNGVVAALEEMPPVTRFYTGACVLLTTAVHLEFVTPFHLYFNWELIIRKYQFWRLITSFCFFGSFGFSFLFNMIFTYRYCMMLEEGSFRGRRADFVYMFLFGAVLMILSGIFVQILFLGQAFTIMLVYIWSRRNPMIQMNFFGVLTFTAPYLPWVLLLFSLLLGNNAVVDFMGIACGHIYFFLEDVFPFQEHGKRFLKTPQWLVYLFDERRPEPLPEDERPGGFEWGDEQPEQEQHD |
| 5686 | sp|Q9SYS6|DRE1C\_ARATH | MNSFSAFSEMFGSDYESPVSSGGDYSPKLATSCPKKPAGRKKFRETRHPIYRGVRQRNSGKWVCELREPNKKTRIWLGTFQTAEMAARAHDVAAIALRGRSACLNFADSAWRLRIPESTCAKEIQKAAAEAALNFQDEMCHMTTDAHGLDMEETLVEAIYTPEQSQDAFYMDEEAMLGMSSLLDNMAEGMLLPSPSVQWNYNFDVEGDDDVSLWSY |
| 5687 | sp|Q9QZ05|E2AK4\_MOUSE | MAGGRGASGRGRAEPQESYSQRQDHELQALEAIYGSDFQDLRPDARGRVREPPEINLVLYPQGLAGEEVYVQVELQVKCPPTYPDVVPEIELKNAKGLSNESVNLLKSHLEELAKKQCGEVMIFELAHHVQSFLSEHNKPPPKSFHEEMLERQAQEKQQRLLEARRKEEQEQREILHEIQRRKEEIKEEKKRKEMAKQERLEITSLTNQDYASKRDPAGHRAAAILHGGSPDFVGNGKARTYSSGRSRRERQYSVCSGEPSPGSCDILHFSVGSPDQLMVHKGRCVGSDEQLGKVVYNALETATGSFVLLHEWVLQWQKMGPCLTSQEKEKIDKCKRQIQGAETEFSSLVKLSHPNIVRYFAMNSREEEDSIVIDILAEHVSGISLATHLSHSGPVPAHQLRKYTAQLLAGLDYLHSNSVVHKVLSASSVLVDAEGTVKITDYSISKRLADICKEDVFEQARVRFSDSALPYKTGKKGDVWRLGLLLLSLSQGQECGEYPVTIPSDLPADFQDFLKKCVCLDDKERWSPQQLLKHSFINPQPKLPLVEQSPEDSGGQDYIETVIPSNQLPSAAFFSETQKQFSRYFIEFEELQLLGKGAFGAVIKVQNKLDGCCYAVKRIPINPASRHFRRIKGEVTLLSRLHHENIVRYYNAWIERHERPAVPGTPPPDCTPQAQDSPATCGKTSGDTEELGSVEAAAPPPILSSSVEWSTSAERSTSTRFPVTGQDSSSDEEDEDERDGVFSQSFLPASDSDSDIIFDNEDENSKSQNQDEDCNQKDGSHEIEPSVTAEAVHYLYIQMEYCEKSTLRDTIDQGLFRDTSRLWRLFREILDGLAYIHEKGMIHRDLKPVNIFLDSDDHVKIGDFGLATDHLAFTAEGKQDDQAGDGVIKSDPSGHLTGMVGTALYVSPEVQGSTKSAYNQKVDLFSLGIIFFEMSYHPMVTASERIFVLNQLRDPTSPKFPDDFDDGEHTKQKSVISWLLNHDPAKRPTAMELLKSELLPPPQMEESELHEVLHHTLANIDGKAYRTMMSQIFCQHISPAIDYTYDSDILKGNFLIRTAKIQQLVCETIVRVFKRHGAVQLCTPLLLPRNRQIYEHNEAALFMDHSGMLVMLPFDLRVPFARYVARNNILNLKRYCIERVFRPRKLDRFHPKELLECAFDIVTSTTNSSLPTAETIYTIYEIIQEFPALQERNYSIYLNHTMLLKAILLHCGIPEDKLSQVYVILYDAVTEKLTRREVEAKFCNLSLSSNSLCRLYKFIEQKGDLQDLTPTINSLIKQKTGVAQLVKYSLKDLEDVVGLLKKLGVKLQVSINLGLVYKVQQHTGIIFQFLAFSKRRQRVVPEILAAGGRYDLLIPKFRGPQTVGPVPTAVGVSIAIDKIFAAVLNMEEPVTVSSCDLLVVSVGQMSMSRAINLTQKLWTAGITAEIMYDWSQSQEELQEYCRHHEITYVALVSDKEGSHVKVKSFEKERQTEKRVLESDLVDHVMQKLRTKVGDERNFRDASDNLAVQTLKGSFSNASGLFEIHGTTVVPNVIVLAPEKLSASTRRRHEIQVQTRLQTTLANLHQKSSEIEILAVDLPKETILQFLSLEWDADEQAFNTTVKQLLSRLPKQRYLKLVCDEIYNIKVEKKVSVLFLYSYRDDYYRILF |
| 5688 | sp|O94513|EIF3E\_SCHPO | MGSELKSTSPLAVKYDLSQKIMQHLDRHLIFPLLEFLSLRQTHDPKELLQAKYDLLKDTNMTDYVANLWTNLHGGHTDEDMANAFAEKRRSVLQELSELEEEVQGILGVLENPDLIAALRQDKGQNLQHLQEHYNITPERIAVLYKFAQFQYNCGNYGGASDLLYHFRAFSKDPELNASATWGKFASEILTVDWDGAMEELGKLREMVDSKSFKDSAVQLRNRTWLLHWSLFPLFNHANGCDTLCDLFFYTPYLNTIQTSCPWLLRYLTVAVVTNQNNANQKPRNPRQSYQRRMRDLVRIISQENYEYSDPVTSFISALYTEVDFEKAQHCLRECEEVLKTDFFLVSLCDHFLEGARKLLAEAYCRIHSVISVDVLANKLEMDSAQLIQLVENRNNPSVAAASNVAADQSTEDESIESTSTNVVADDLITEAETATEAEEPEPEVQFGFKAKLDGESIIIEHPTYSAFQQIIDRTKSLSFESQNLEQSLAKSISELKHATV |
| 5689 | sp|Q9SKT1|ERF53\_ARATH | MATAKNKGKSIRVLGTSEAEKKDEMELEEEFQFSSGKYKDSGPGSDMWLGDASSTSPRSLRKTRTFDRHNPYLVSSYATPQPPTTTTCSVSFPFYLPPAIQNQQRFLHPNDPSGQRQQQMISFDPQQQVQPYVAQQQQQQQHLLQYWRDILKLSPSGRMMMMNMLRQESDLPLTRPPVQPFSATKLYRGVRQRHWGKWVAEIRKPRNRTRLWLGTFDTAEEAAMAYDREAFKLRGETARLNFPELFLNKQEPTPVHQKQCETGTTSEDSSRRGEDDSSTALAVGGVSEETGWAEAWFNAIPEEWGPGSPLWDDYHFPISNHKDDLDATQNSSSDTI |
| 5690 | sp|Q7XP59|GLR31\_ORYSJ | MKFIFYLFSIFCCLCSCAQSQNISGRPDAVRIGAQFARNSTIGRVAAVAVLAAVNDINNDSNILPGTKLDLHMHDSSCNRFLGIVQALQFMEKDTVAIIGPLSSTTAHVLSHLANELHVPLMSFSATDPTLSSLEYPFFVRTTVSDQFQMTAVADLVEYYGWKQVTTIFVDNDYGRNAISSLGDELSKRRSKILYKAPFRPGASNNEIADVLIKVAMMESRVIILHANPDSGLVVFQQALKLGMVSNGYAWIATDWLTSYLDPSVHLDIGLLSTMQGVLTLRHHTENTRRKSMLSSKWSELLKEDSGHSRFLLSTYGLYAYDTVWMLAHALDAFFNSGGNISFSPDPKLNEISGRGLNLEALSVFDGGQLLLEKIHQVDFLGATGPVKFDSGGNLIQPAYDIVSIIGSGLRTVGYWSNYSGLSVISPETLYKKPANRTRETQKLHDVIWPGETINKPRGWVFPNNGNEIKIGVPDRVSYRQFVSVDSETGMVRGLCIDVFVAAINLLAYPVPYRFVPFGNNRENPSYSELINKIITDDFDAVVGDVTIITNRTKVVDFTQPYVSSGLVVLTSVKRQNSGGWAFLQPFTIKMWTVTGLFFLIIGTVVWMLEHRINDEFRGPPAKQLITVFWFSFSTLFFAHREDTRSTLGRFVIIIWLFVVLIIQSSYTASLTSILTVQQLTSPITGIDSLITSDVPIGFQVGSFAENYLAQELGVAHSRLKALGSPEEYKKALDLGPSKGGVAAIVDERPYIELFLYQNPKFAVVGSEFTKSGWGFAFPRDSPLSVDLSTAILELSENGDLQRIHDKWLASDMSSMSQASELDQDPDRLDVYSFSALFLICGLACIFALAIHACNLFYQYSRHAAEEDPAALQPSASDGSRSLSRRSKLQSFLSFADRREADIRRAAKEKASGLGGSGGSMSGVSFTSSGSGSTTASC |
| 5691 | sp|A9BNG4|GRPE\_DELAS | MSEQNSNPLQDAAPEEIEAAMAANAADELQRLQTELAELKAKSAELADQFLRAKAEAENVRRRAEDEVSKARKFGIESFAESLLPVCDSLDAALAIQQATPEQLREGADATLRQLTSALERNKVVTINPAAGEKFDPNLHQAISMVPAQQEANTVVSVLQKGYLIADRILRPALVTVAQPQ |
| 5692 | sp|A4IX27|GRPE\_FRATW | MSKQEKSNVEDKSLDIETAAQVETAQESASGALEELSVEEQLERAKDTIKELEDSCDQFKDEALRAKAEMENIRKRAERDVSNARKFGIEKFSKELLPVIDSIEQALKHEVKLEEAIAMKEGIELTAKMLVDILKKNGVEELDPKGEKFDPNLHEAMAMIPNPEFEDNTIFDVFQKGYMLNGRIVRAAKVVIVKN |
| 5693 | sp|B6EKA3|GRPE\_ALISL | MNNEEKKVNEEIVVEDQIEAIGTEADVEWNESMEESQDAKIAELEAALLASQAQLKEQQDAVLRAKAEEQNVRRRAEGDIDKARKYALKKFAGELLPVIDNLERALESGDKENEAAKVLLEGVELTLQTFISTIEKFGLTVINPVGETFNPEHHQAIGMQASPDHESNTVMVVMQKGYSLNEQVIRPAMVMVAQ |
| 5694 | sp|Q4L6T1|GRPE\_STAHJ | MTEKDESVKSNSEYTEEQEVKNEDTSTVENVEDTTSDSDNSSNDSSNEESSEETAVDPKDEEIQQLQLKANENEEKYLRLYAEFENYKRRIQKENETNKTYQSQRVLTDILPTIDNIERALQIEGDDESFKSLQKGVQMVHESLLRALKDNGLEEIESEGQAFDPNFHQAVVQDDNPDFKSGDITQELQKGYKLKDRVLRPSMVKVNQ |
| 5695 | sp|A5IIT3|GRPE\_THEP1 | MSEKDKKELTQECEELKEKYKELEEYAKRLKAEYENYREEVAREKRELIKNANEYLILKLIPVLDDFERALNQGEKRDAFYEGVKMIYKKLLNVLEKEGLTKIHVGEKFDPFEHEAVERVETEDVEEYTVLEVVESGYKFHGKVLKPAKVKVAVKPRKKEAEKVEKPSDEKE |
| 5696 | sp|A8G203|GRPE\_PROM2 | MIENQSDNIDNKEKDVSNQDNAPEDISSEQNSTNENDELTSQKKEAINTEELKNTISNNDARLKQLEKEHETLKNQYVRISADFDNFRKRQSRDQDDLKIQIVSKTLTAILPIVDNFERARQQLQPESEEAQALHRSYQGLYKQLVEVLKQQGVSPMRVVGQQFDPNLHEAVLREPSEESDEDFIIEELQRGYHLEGKVLRHALVKVSMGPGKQNSQQEVEKDTVEEDVNSEVNTSEDV |
| 5697 | sp|P61444|GRPE\_LEPIC | MAETSNNKTSEEAKANEKKSQSETLEESKLENMNSEESTETTQTESMETAETETSLQTELESAKKEIESLKDSWARERAEFQNFKRRSAQEFVSIRKEAVKSLVSGFLNPIDNLERVGATQTNSEELKPFVDGVTMILKEFYSVLEKSNVIRFDPKGEPFDPMSMEALSSEEGDQYSEETVIDVYQPGYYYKENEDKFTLRPARVRIGKPKS |
| 5698 | sp|Q7VIE2|GRPE\_HELHP | MEEQEEKQYNQNIQDNEEGTQMREELQESTSAQQTLQEQEIDYQAKYLELKDQYVRAFADFENTKKRLERDKNQSLEYAYERIMNDLLPVLDTLEKALESAQSNPEAGAIAQGLQLTLEGFLKVLSKHGVEVIATDGEFDPNLHECLMQVPDANKNDGEILQTLQKGFVYKHRVLRPSMVSVVKN |
| 5699 | sp|Q0TGM8|HCHA\_ECOL5 | MTVQTSKNPQVDIAEDNAFFPSEYSLSQYTSPVSDLDGVDYPKPYRGKHKILVIAADERYLPTDNGKLFSTGNHPIETLLPLYHLHAAGFEFEVATISGLMTKFEYWAMPHKDEKVMPFFEQHKSLFRNPKKLADVVASLNADSEYAAIFVPGGHGALIGLPESQDVAAALQWAIKNDRFVISLCHGPAAFLALRHSDNPLNGYSICAFPDAADKQTPDIGYMPGHLTWYFGEELKKMGMNIINDDITGRVHKDRKLLTGDSPFAANALGKLAAQEMLAAYAS |
| 5700 | sp|Q606N3|HFQ\_METCA | MSKGQNLQDPFLNTLRKEHVPVSIYLVNGIKLQGKVDSFDQYVIMLKNTVSQMVYKHAISTIVPGRPVRVPHAGESGDEEAE |
| 5701 | sp|Q5GYM1|HFQ\_XANOR | MAKGQSLQDPFLNALRRERVPVSVYLVNGIKLQGTIESFDQFVVLLRNTVSQMVYKHAISTVVPARNVRVGPGGGYVQSNEGNQAEDDDVEQ |
| 5702 | sp|Q02IV5|HCHA\_PSEAB | MSNERDTSRTPTPDHAEHNAFFPSPYSLSQYTSAKTDFDGADYPTPYNGGKKVLMIGTDERYILMQNGSMFSTGNHPVEMLLPMYHLDKAGFEFDVATLSGNPVKLEMWAMPGEDEAVKSIYAKYLPKLKAPQKLADLLEQAVADDSPYAAVFVPGGHGVLAGIPHSREVKRLLNAFLAKDRYIITLCHGPACLLAPAVEEKPEDYPFKGYEICVFPDALDTGANLEIGYMPGPLPWLVGENLQKLGVKILNKGITGQVHRDRKLLTGDSPLASNNLGKLAAKTLLEAFAR |
| 5703 | sp|Q9FYG2|CMTA4\_ARATH | MSSVAEDNSFTCDIATIFVAICRNPPANPSDSLFQYEISTLYQEAHSRWLKPPEVLFILQNHESLTLTNTAPQRPTSGSLLLFNKRVLKFFRKDGHQWRRKRDGRAIAEAHERLKVGNAEALNCYYAHGEQDPTFRRRIYWMLDPEYEHIVLVHYRDVSEREEGQQTGGQVYQFAPILSTQNVSYNQYIGDSSDIYQQSSTSPGVAEVNSNLEGSASSSEFGQALKMLKEQLSIGDEHVNSVDPHYIQPESLDSLQFLEYSDIDHLAQPTTVYQRPENNKLERCYGGNFGAQYSAKNDSNKLERCYGGYVGGAEYHSSNLMLVKNGSGPSGGTGGSGDQGSESWKDVLEACEASIPLNSEGSTPSSAKGLLAGLQEDSNWSYSNQVDQSTFLLPQDLGSFQLPASYSALVAPENNGEYCGMMEDGMKIGLPFEQEMRVTGAHNQKFTIQDISPDWGYANETTKVIIIGSFLCDPTESTWSCMFGNAQVPFEIIKEGVIRCEAPQCGPGKVNLCITSGDGLLCSEIREFEYREKPDTCCPKCSEPQTSDMSTSPNELILLVRFVQTLLSDRSSERKSNLESGNDKLLTKLKADDDQWRHVIGTIIDGSASSTSTVDWLLQELLKDKLDTWLSSRSCDEDYITCSLSKQEQGIIHMVAGLGFEWAFYPILAHGVNVDFRDIKGWSALHWAAQFGSEKMVAALIASGASAGAVTDPSRQDPNGKTAASIAASNGHKGLAGYLSEVALTNHLSSLTLEETENSKDTAQVQTEKTLNSISEQSPSGNEDQVSLKDTLAAVRNAAQAAARIQAAFRAHSFRKRKQREAALVACLQEYGMYCEDIEGISAMSKLTFGKGRNYNSAALSIQKNFRGYKDRKCFLELRQKVVKIQAHVRGYQIRKNYKVICWAVRILDKVVLRWRRKGVGLRGFRQDVESTEDSEDEDILKVFRKQKVDVAVNEAFSRVLSMSNSPEARQQYHRVLKRYCQTKAELGKTETLVGEDDDGLFDIADMEYDTLFSLP |
| 5704 | sp|P35594|CLPE\_STRPN | MLCQNCKINDSTIHLYTNLNGKQKQIDLCQNCYKIIKTDPNNSLFKGMTDLNNRDFDPFGDFFNDLNNFRPSSNTPPIPPTQSGGGYGGNGGYGSQNRGSAQTPPPSQEKGLLEEFGINVTEIARRGDIDPVIGRDDEIIRVIEILNRRTKNNPVLIGEPGVGKTAVVEGLAQKIVDGDVPHKLQGKQVIRLDVVSLVQGTGIRGQFEERMQKLMEEIRKREDIILFIDEIHEIVGAGSASDGNMDAGNILKPALARGELQLVGATTLNEYRIIEKDAALERRMQPVKVDEPTVDETITILKGIQKKYEDYHHVQYTDAAIEAAATLSNRYIQDRFLPDKAIDLLDEAGSKMNLTLNFVDPKVIDQRLIEAENLKSQATREEDFEKAAYFRDQIAKYKEMQKKKITDQDTPSISEKTIEHIIEQKTNIPVGDLKEKEQSQLIHLAEDLKSHVIGQDDAVDKIAKAIRRNRVGLGTPNRPIGSFLFVGPTGVGKTELSKQLAIELFGSADSMIRFDMSEYMEKHSVAKLVGAPPGYVGYDEAGQLTEKVRHNPYSLILLDEVEKAHPDVMHMFLQVLDDGRLTDGQGRTVSFKDAIIIMTSNAGTGKTEASVGFGAAREGRTNSVLGELGNFFSPEFMNRFDGIIEFKALSKDNLLQIVELMLADVNKRLSSNNIRLDVTDKVKEKLVDLGYDPKMGARPLRRTIQDYIEDTITDYYLENPSEKDLKAVMTSKGNIQIKSAKKAEVKSSEKEK |
| 5705 | sp|Q99967|CITE2\_HUMAN | MADHMMAMNHGRFPDGTNGLHHHPAHRMGMGQFPSPHHHQQQQPQHAFNALMGEHIHYGAGNMNATSGIRHAMGPGTVNGGHPPSALAPAARFNNSQFMGPPVASQGGSLPASMQLQKLNNQYFNHHPYPHNHYMPDLHPAAGHQMNGTNQHFRDCNPKHSGGSSTPGGSGGSSTPGGSGSSSGGGAGSSNSGGGSGSGNMPASVAHVPAAMLPPNVIDTDFIDEEVLMSLVIEMGLDRIKELPELWLGQNEFDFMTDFVCKQQPSRVSC |
| 5706 | sp|Q9LEX1|CLB\_ARATH | MGLISGILFGIIFGVALMAGWSRMMTHRSSKRVAKAVDMKLLGSLSRDDLKKICGDNFPQWISFPAFEQVKWLNKLLSKMWPYIAEAATMVIRDSVEPLLEDYRPPGITSLKFSKLTLGNVAPKIEGIRVQSFKEGQVTMDVDLRWGGDPNIVLGVTALVASIPIQLKDLQVFTVARVIFQLADEIPCISAVVVALLAEPKPRIDYTLKAVGGSLTAIPGLSDMIDDTVDTIVKDMLQWPHRIVVPIGGIPVDLSDLELKPQGKLIVTVVKATNLKNKELIGKSDPYATIYIRPVFKYKTKAIENNLNPVWDQTFELIAEDKETQSLTVEVFDKDVGQDERLGLVKLPLSSLEAGVTKELELNLLSSLDTLKVKDKKDRGSITLKVHYHEFNKEEQMAALEDEKKIMEERKRLKEAGVIGSTMDAVGMVGSGLGAGVGMVGTGIGTGVGLVGSGVSSGVGMVGSGFGAVGSGLSKAGRFMGRTITGQSSKRSGSSTPVNTVPENDGAKQQ |
| 5707 | sp|Q2FY15|CSHB\_STAA8 | MAKHPFEQFNLESSLIDAVKDLNFEKPTEIQNRIIPRILKRTNLIGQSQTGTGKSHAFLLPLMQLIDSEIKEPQAIVVAPTRELAQQLYDAANHLSQFKAGVSVKVFIGGTDIEKDRQRCNAQPQLIIGTPTRINDLAKTGHLHVHLASYLVIDEADLMIDLGLIEDVDYIAARLEDNANIAVFSATIPQQLQPFLNKYLSHPEYVAVDSKKQNKKNIEFYLIPTKGAAKVEKTLNLIDILNPYLCIIFCNSRDNANDLARSLNEAGIKVGMIHGGLTPRERKQQMKRIRNLEFQYVIASDLASRGIDIEGVSHVINFDVPNDIDFFTHRVGRTGRGNYKGVAITLYSPDEEHNISLIEDRGFVFNTVDIKDGELKEVKAHNQRQARMRKDDHLTNQVKNKVRSKIKNKVKPGYKKKFKQEVEKMKRQERKQFSKQQNRQKRKQNKKG |
| 5708 | sp|Q6ATB2|CRSH2\_ORYSJ | MASAGGEVVVVDPAAAAVAPDVEHHAPAPRLTPAGSGGRLMAELLGVFNGLTERMGDDVATSSSWTLLFRALKLALPALRDAAGGRSLARALIVAASLADLQMDAEVISAGIVRQAMDAGAVAMADAEAQLGPGAAALLLESLDVKNAPSRVDVADEEAASAVRNRILSGYDVRAVILELAIRLDAMKHLDGVPKHQQRTTSLEVLKVFAPLAHAVGAGALSKELEDLSFWRLYPQAYAQVDQWLSGQEDDCKRVLATCKDDLLQALAADDELRHTVAGFDVKGRYKSRFSAMKKLVKDGRRPEDVHDILGMRVILDHRAGAGDGHRACIRTHEVIKGMWKDVPARTKDYIARPKGDGYRSLHIAVDMSEPGPEGKKRPLMEVQIRTKEMNDAAVFGHALYKGCLADPEEAKRLKDIMLAAAEVAAQHLRDEPATGDQTGVPAAAAAAASAGNIERAFRLLDKNGDGRISMEELTELMEDLGAGGKDAEELMRLLDDNNDGSLSSDEFALFQKRVELKAKLEDKDDEYKEILRQKLQKVDDTGLIHVYRKNLSDKLVSG |
| 5709 | sp|Q9RY80|DDRB\_DEIRA | MLQIEFITDLGARVTVNVEHESRLLDVQRHYGRLGWTSGEIPSGGYQFPIENEADFDWSLIGARKWKSPEGEELVIHRGHAYRRRELEAVDSRKLKLPAAIKYSRGAKVSDPQHVREKADGDIEYVSLAIFRGGKRQERYAVPGGAAGNGQGRPAPQGQPAQARPQATAARPAARPPVQPGQEEETPF |
| 5710 | sp|Q7UDU1|DNAJ\_SHIFL | MAKQDYYEILGVSKTAEEREIRKAYKRLAMKYHPDRNQGDKEAEAKFKEIKEAYEVLTDSQKRAAYDQYGHAAFEQGGMGGGGFGGGADFSDIFGDVFGDIFGGGRGRQRAARGADLRYNMELTLEEAVRGVTKEIRIPTLEECDVCHGSGAKPGTQPQTCPTCHGSGQVQMRQGFFAVQQTCPHCQGRGTLIKDPCNKCHGHGRVERSKTLSVKIPAGVDTGDRIRLAGEGEAGEHGAPAGDLYVQVQVKQHPIFEREGNNLYCEVPINFAMAALGGEIEVPTLDGRVKLKVPGETQTGKLFRMRGKGVKSVRGGAQGDLLCRVVVETQIGLDEKDKQLLHELHESYGGPTGEHNSPRSKSFFDGVKKFFDDLTR |
| 5711 | sp|B7KSZ4|DNAK\_METC4 | MGKVIGIDLGTTNSCVAVMEGTQPRVIENAEGARTTPSIVAFTDDGERLVGQPAKRQAVTNPERTFFAIKRLIGRTYDDPLTQKDKGLVPYKIARGDNGDAWVEADGKKYSPSQISAFTLQKMKETAESHLGQPVTQAVITVPAYFNDAQRQATKDAGKIAGLEVLRIINEPTAAALAYGLDKKKAGTIAVYDLGGGTFDVSILEIGDGVFEVKSTNGDTFLGGEDFDNRVVEYLTAEFKKEQGIDLTKDKLALQRLKEAAEKAKIELSSATQTEINLPYITADASGPKHLALKLSRAKFESLVDDLVQRTIEPCRKALKDAGVSASEIDEVVLVGGQTRMPKVQEVVKAFFGKEPHKGVNPDEVVAIGAAVQAGVLQGDVKDVLLLDVTPLSLGIETLGGVFTRLIDRNTTIPTKKSQVFSTAEDNQNAVTIRVFQGEREMAADNKLLGQFDLVGIPPAPRGMPQIEVTFDIDANGIVNVTAKDKATNKEHQIRIQASGGLSDADIEKMVKDAEANAEADKKRRELVEVKNQGESLIHATEKSVAEYGDKVSAADKGAIESAITALRSALEGEDAEGIKAKTNDLMQASMKLGEAMYAASQTEGAPGADGAASTDEKKDDVIDADFQEVDENERKKRA |
| 5712 | sp|P45555|DNAJ\_STAAU | MAKRDYYEVLGISKDASKDEIKKAYRKLSKKYHPDINKEEGADEKFKEISEAYEVLSDDNKRATIDQFGHDGPQGFGGQGFNGSDFGGFSGFGGGGFEDIFSSFFGGGSQRDPNAPQKGDDLQYTMTLTFEEAVFGTTKEISIRKDVTCETCHGDGAKPGTSKKTCSYCNGAGHVAVEQNTILGRVRTEQVCPKCNGSGQEFEEACPTCHGKGTENKTVKLEVKVPEGVDNEQQIRLAGEGSPGVNGGPAGDLYVVFRVKPSETFKRDGDDIYYKLNVSFPQAALGDEIKIPTLNNEVMLTIPAGTQTGKQFRLKEKGIKNVHGYGYGDLYVDIKVVTPTKLTDRQKELMKEFAQLNGEEINEQPSNFKDRAKRFFKGE |
| 5713 | sp|A5ITA7|DNAJ\_STAA9 | MAKRDYYEVLGISKDASKDEIKKAYRKLSKKYHPDINKEEGADEKFKEISEAYEVLSDDNKRASYDQFGHDGPQGFGGQGFNGSDFGGFSGFGGGGFEDIFSSFFGGGRQRDPNAPQKGDDLQYTMTLTFEEAVFGTTKEISIRKDVTCETCHGDGAKPGTSKKTCSYCNGAGHVAVEQNTILGRVRTEQVCPKCNGSGQEFEEACPTCHGKGTENKTVKLEVKVPEGVDNEQQIRLAGEGSPGVNGGPAGDLYVVFRVKPSETFKRDGDDIYYKLNVSFPQAALGDEIKIPTLNNEVMLTIPAGTQTGKQFRLKEKGIKNVHGYGYGDLYVDIKVVTPTKLTDRQKELMKEFAQLNGEEINEQPSNFKDRAKRFFKGE |
| 5714 | sp|P22358|DNAK2\_SYNY3 | MGKVVGIDLGTTNSCVAVMEGGKPTVIANAEGFRTTPSVVGYAKNGDRLVGQIAKRQAVMNPGNTFYSVKRFIGRKFDEITNEATEVAYSVVKDGNGNVKLDCPAQGKQFAPEEISAQVLRKLVDDASKYLGETVTQAVITVPAYFNDSQRQATKDAGKIAGIEVLRIINEPTAASLAYGLDKKDNETILVFDLGGGTFDVSILEVGEGVFEVLATSGDTHLGGDDFDKKIVDFLAGEFQKAEGIDLRKDKQALQRLTEAAEKAKIELSGVSQTEINLPFITATQDGPKHLDTTLSRAKFEEICSDLIDRCGIPVENAIRDAKIDKSALDEIVLVGGSTRIPAVQEVVKKILGKDPNQGVNPDEVVAVGAAIQGGVLSGEVKDILLLDVSPLSLGVETLGGVMTKIIPRNTTIPTKKSETFSTAVDGQSNVEIHVLQGEREMANDNKSLGTFRLDGIPPAPRGVPQIEVTFDIDANGILNVTAKDRGTGKEQSISITGASTLPDTEVDRMVKEAESNAAADKERREKIDRKNQADSLVYQAEKQITELGDKVPAADKIKAEGLIKDLKEAVAQEDDAKIQTVMPELQQVLYSIGSNMYQQAGAEAGVGAPGAGPEAGTSSGGGDDVIDAEFSEPEK |
| 5715 | sp|O52064|DNAK\_MANHA | MGKIIGIDLGTTNSCVAVMDGDKPRVIENAEGARTTPSIIAYTDKETLVGQPAKRQAITNPKNTLFAIKRLIGRRFTDAEVQRDIEIMPFEISKADNGDAWVTVKGDKLAPPQISAEILKKMKKTAEDFLGEPVTEAVITVPAYFNDAQRQATKDAGRIAGLDVKRIINEPTAAALAYGLDSKKENQTIAVYDLGGGTFDISIIEIDNFDGEQTFEVRATNGDTHLGGEDFDNRVINYLVEEFKKQGVDLRNDPMAMQRVKEAAEKAKIELSSAQETEVNLPYITADATGPKHLNIKVTRAKLESLVEDLVNRSLEPLKTALADAGLSVGDINDVILVGGQTRMPLVQKKVADFFGKTRKDVNPDEAVMAIGAAVQGGVLSGSVTDVLLLDVTPLSLGIETMGGVMTTLIEKNTTIPTKKSQVFSTAEDNQSAVTIHVLQGERKRAADNKSLGQFNLEGINPAPRGMPQIEVTFDIDANGIINVSAKDKNTGKEQQIKIQASSGLSDAEVEQMVRDAEANAEADKKFEELVQVCNQADGIAHATRKQITEAGDALNADDKAKIEAAISELETAAKGEDKAEIEAKIEALIKASEPLMLAAQAKAQGGEQPQQSQKDDGVVDAEFEEVKDNK |
| 5716 | sp|Q9HV43|DNAK\_PSEAE | MGKIIGIDLGTTNSCVAILENGNVKVIENAEGARTTPSIIAYTNDGETLVGQPAKRQAVTNPQNTLYAVKRLIGRRFEENVVQKDIQMVPYSIVKADNGDAWVEVKGQKMAPPQISAEVLKKMKKTAEDYLGEPVTEAVITVPAYFNDSQRQATKDAGRIAGLDVKRIINEPTAAALAYGLDKAKGDHTVIVYDLGGGTFDVSVIEIAEVDGEHQFEVLATNGDTFLGGEDFDIRLIDYLVDEFKKESGINLKGDPLAMQRLKEAAEKAKIELSSTQQTDVNLPYVTADASGPKHLNVKVSRAKLESLVEDLVQRTIEPCRTALKDAGLDVSDIHEVILVGGQTRMPLVQKTVAEFFGKEARKDVNPDEAVAVGAAIQGAVLAGDVKDVLLLDVTPLTLGIETLGGVMTGLIEKNTTIPTKKSQVFSTADDNQGAVTIHVLQGERKQAAQNKSLGKFDLADIPPAPRGVPQIEVTFDIDANGILHVSAKDKATGKQQSIVIKASSGLSEDEIQQMVRDAEANAEEDRKFEELAAARNQGDALVHATRKMITEAGDKATAEDKATIEKALGELEAAVKGDDKAEIEAKMNALSQASTPLAQKMYAEQAQQGEDAPQGEQAKAADDVVDAEFEEVKDNK |
| 5717 | sp|A4SQ24|DNAJ\_AERS4 | MSKRDFYEVLGVSKGADEREIKKAYKPLAMKFHPDRNQGDAASEEKFKEVKEAYEILTDENLRARYDQYGHAGVDQSQGGGGHGGFGGGADFGDAFGDIFGDIFGGRNGGGRRGPARGSDLRYTMELTLEEAVRGVSKEIKVPSLVHCEVCNGSGAHTGSTAQTCPTCHGAGQVQMRQGFFAVQQACPHCHGRGKIIKDPCRKCHGEGRYQKTKTLSVKIPAGVDTGDRIRLSGEGEAGEAGAPAGDLYVQVHVKEHEIFVRDGNNLYCEVPISFTAAALGGEIEVPTLDGRVKLKVTPETQTGKMFRMRGKGVKSVRSGQVGDLMCKVVIETPVKLTESQKELLRQLDESFSGAAAKTHKPRSEGFFEGVKRFFDDLTR |
| 5718 | sp|C4K111|DNAJ\_RICPU | MSQNYYQILGVSKTASQADLKKAYLKLAKQYHPDTTDAKDAEKKFKEINAAYDVLKDEQTRAAYDRLGHDAFQNQQSRGGGGNHGGFHPDINDIFGDFFSDFMGGSRRSSRPTSAKVRGSDLKYNLTINLEEAFHGIEKNISFSSTVKCDTCHGSGSEKGETVTTCDACSGVGATRMQQGFFTIEQACHKCQGNGHIIKNPCKKCHGMGRYHKQRNLSVNIPAGVENGTRIRHTGEGEAGIRGGNSGDLYVDITIKPHDIYKVDGANLHCKLPISFVNAALGGEIEVPVIEGGKVNLTIPAGTQNGDQLRLRSKGMSKMRSTIRGDMLTHIHVEVPKNLSKRQRELLEEFKKESINEKENDGSFFNKMKSLWS |
| 5719 | sp|B8D758|DNAK\_BUCAT | MGKIIGIDLGTTNSCVAIMDGNKPRVLENAEGDRTTPSIIAYTQEGEVLVGQPAKRQAITNPKNTLFAIKRLIGRKFKDDEVQRDIKIMPYNIVNSDNGDAWIDVKKQKMAPPQISAEVLKKMKKTAEDYLGETIKEAVITVPAYFNDAQRQATKDAGRIAGLEVKRIINEPTAAALAYGLDKGKGNRTIAVYDLGGGTFDISIIEIDEVDKEKTFEVLATNGDTHLGGEDFDSRLINYLVTEFKKEQGIDLRNDPLSMQRLKESAEKAKIELSSAQQTDVNLPYITADSNGPKHLNIKVTRAKLESLVEDLILRSIEPLKVALKDAGLSVTDINDVILVGGQTRMPMVQSKVADFFGKEPRKDVNPDEAVAVGAAVQGGVLSGDVKDVLLLDVTPLSLGIETMGGIMTSLINKNTTIPTKHSQIFSTAEDNQSAVTIHVLQGERKRSSDNKSLGQFNLDGINPAPRGTAQIEVTFDIDSDGILHVSAKDKKTGKEQKITIKASSGLNEEEIKKMVNDAEANSEADQKFEELIQTRNQGDQLVHSIKKQLNENKNSIEEESKKDIQLALNKLENALKGEDKSDIEKNIQNLLKISSKLTEINQKKSEKDQKDNNMSANKKDENVVDAEFEEIKDPKK |
| 5720 | sp|A5VJE7|DNAK\_LACRD | MASNKIIGIDLGTTNSAVAVMEGNEPKIITNPEGSRTTPSVVSFKNGETQVGEVAKRQAITNPNTISSIKSHMGEAGYTVEVDGKKYTPQEISAMILQYLKKYAEDYIGDTVTQAVITVPAYFNDAQRQATKDAGKIAGLDVKRIINEPTASSLAYGLDKKDKDEKILVYDLGGGTFDVSILELGDGVFQVLSTNGDTHLGGDDFDQKIMDWLIDGFKEEHGVDLSQDKMALQRLKDAAEKAKKDLSGVQEAQISLPFISAGENGPLHLEKTLSRAQFNQLTNDLVERTKQPVLNALKDADLTFDDIDEVILNGGSTRIPAVQEMVKELTGKEPNHSINPDEAVALGAAIQGGVLTGDVKDVVLLDVTPLSLGIETMGGVFTKLIDRNTTIPTSKSQIFSTAADNQPAVDIHVLQGERPMAADNKTLGNFQLTDIPAAPRGVPQIKVTFDIDKNGIVNVSAEDQGTHKKQNITIKSNSGLSDEEIERMKKDAEEHAEADKKKKEEVDLKNEVDQELFQVDKTLKEVKGKVPEDDIKKAESARDELKKAKESGNLDEMKAKKDALNKVIQDLSVKLYQQAQGAQGGAANGQPGDSQQNGNDNGNDDNTVDGDFKDVTPDDKK |
| 5721 | sp|B0CAZ0|DNAJ\_ACAM1 | MARDYYDILGVSRSADPDELKRSYRRLARKYHPDVNKEPGAEDKFKEINKAYETLSDPQMRGRYDQFGEAGVSSAAGAGYQDFGDFGGFADIFETFFSGFGGSPQSGRRRSGPARGEDLRFDLKLKFREAVFGGEQQIRISHLESCKTCEGTGAKPGTRPQTCSTCQGSGQVRRMTRTPLGNFTQVSVCPTCNGQGQVVTEKCDSCGGRGQNQVSKKLQIKIPAGVDTGTRLRVSNEGDAGQKGGPPGDLYVYLFVQEDSEFRRDGTNVLSEFKISYLQAILGAQLPVKTVDGEETITIPAGTQPGTVLTLENHGVPRLGNPVSRGDHLITVIIDIPNRISTEERELLVQLASIRAEQTGKGGIEGFLGGIFGR |
| 5722 | sp|Q8NLY8|DNAJ2\_CORGL | MNNSEWANKNYYADLGVSSSASEDEIKKAYRKLARENHPDKNPGDKAAEDRFKKAAEAYDVLGDDKKRKEYDELKALLASGGIRGGFGSGGAGFPGGFRTSTGGFDTSDLFGGGQGGGFSTDGGLGDIFGGLFNRGAGSHQSARPTRGADVQTEITLSFVEAAKGTTIPVELTGDAPCNTCHGSGSKSGHPAKCGTCDGTGFTSENKGAFGFSAPCATCGGTGEIITDPCDNCHGRGTVRKSRSITVRIPTGVEDGQKVRLAGQGEAGPNGKPAGDLFVKVHVKKDDVFTRDGSNILITIPVSFSELALGGAISVPTLNKPVKLKLPAGTPDGRTLRVRGRGIEARDSTGDLLVTVQVSVPKNLDDNAAEALRAYAEAETNSGFDPRANWAGQNR |
| 5723 | sp|Q12Q07|DNAJ\_SHEDO | MSKRDYYEVLGVGRDSSERDIKKAYKRLAMKFHPDRNPGDKAAEASFKEIKEAYEILTDGDKKAAYDQFGHAGVDPNRGGGGHGGGDFGDIFGDVFGDIFGGGRRGGQRQAARGSDLRYNLELSLEEAVRGLTKELRIPTLAACDLCDGSGAKKGTSASSCGTCHGQGQVQMRQGFFAVQQACPTCHGRGKIIKDPCGKCYGEGRVEKSKTLSVKIPAGVDTGDRIRLAGEGEAGEFGAPAGDLYVQVSVREHGIFTRDGNNLYCEVPISFSKAALGGEIEVPTLDGKVSLKIPTETQTGRMFRLRGKGVKSVRSHAIGDLLCKVVMETPVNLSEQQKELLREFEASLTGAGASKKHSPKAEGFFDGVKKFFQDLNS |
| 5724 | sp|B5YYA8|DNAJ\_ECO5E | MAKQDYYEILGVSKTAEEREIKKAYKRLAMKYHPDRNQGDKEAETKFKEIKEAYEVLTDSQKRAAYDQYGHAAFEQGGMGGGGFGGGADFSDIFGDVFGDIFGGGRGRQRAARGADLRYNMELTLEEAVRGVTKEIRIPTLEECDVCHGSGAKPGTQPQTCPTCHGSGQVQMRQGFFAVQQTCPHCQGRGTLIKDPCNKCHGHGRVERSKTLSVKIPAGVDTGDRIRLAGEGEAGEHGAPAGDLYVQVQVKQHPIFEREGNNLYCEVPINFAMAALGGEIEVPTLDGRVKLKVPGETQTGKLFRMRGKGVKSVRGGAQGDLLCRVVVETPVGLNEKQKQLLQELQESFGGPTGEHNSPRSKSFFDGVKKFFDDLTR |
| 5725 | sp|Q3IUB7|DNAJ\_NATPD | MSEDFYSVLGVSRDADEDEIKQAYRKKASEYHPDVSDDPNAEEKFKQVKKAKEVLLDDEKRRMYDQMGHERFQEAEKRGATDTDRGRGGMGGMGGGGMGGMNDIFEQFFGGGGRSQSRSGPRQGSDLKTRLKVDLEDAYHGVTKQLTVTRPEECPDCDGAGHPPDADSRTCSACDGRGQQTTVRQTALGRVQQTRECPQCDGKGTIYSETCSTCRGDGQVRNETTLQVEVPAGIRDGQTLRMDGEGAPGENGGRKGDLLVEIRIDDHETFERDGDDLRCRHPISFPQAVFGDTVEVPTLDGAVEMDVPAGTQSGETFRLRGKGMPRLKRRGHGDLYVQVRVVTPESLNEEQREALEAFAEAGGEEIDVEQGFFEKLKSSF |
| 5726 | sp|O66921|DNAJ2\_AQUAE | MASSTKKDYYEILGVPRNASQEEIKKAYRRLVRKYHPDICKKPECEEKFKEINEAYQVLSDPEKRKLYDMYGHAAFEGAGAQQRVETTEIPPIEEILREFFDFDIGSIFERATGRRRARRRRSVKGEDIVVPVEITLEEAFKGTTVPIEVEREVPCSACGGTGYDESKSRTCPTCGGRGETVQGNWFFQVRQTCPTCGGEGVIYENCHACTGRGYGLVKETIKVKIPPGVRDGSKLVVEGKGHAGRYGGPPGDLYIIVKVKPHKIFERKGDDLYVDVNITYPEAVLGTEVEVPTLDGEKVKVKIPPGTKEGELIKVPGKGMPRLKGSGRGDLYVRVHIDVPKIGVLSKLLGDGKKVEELLKQLQEVLPKPERIVER |
| 5727 | sp|A5UYW4|DNAJ\_ROSS1 | MAVKRDYYEVLGVQRNASQDEIKKAFRRLARQYHPDVNKAPDAEAKFKEINEAYEVLSDPEKRSMYDRFGHAGPTAAPGFDPFSSADPFSSIFETFFGGTMRGSQRGPQRGADLRYTLSISFEEAVFGVEKTIEFRRLETCPACRGSGAEPGTEPVRCPKCGGLGEIRQRAPLFNMVTVTTCDMCRGEGTVIAIPCRECRGEGRVRQTRKITVRVPPGVDNSSQIRISGEGDAGPRGGPYGNLYVVIDVQPHPYFIREGNDIILELPLNVAQAALGVEVEVPTIDGTEHLRIPPGVQSGAVFRIRGKGVPFLRSSGRGDQIVVVRVVIPTNLTDHQRRLFEELARSLEKEPIGGQRDEGFFGRIKNALGL |
| 5728 | sp|A8F0U0|DNAJ\_RICM5 | MMSQNYYQILGVSKTASQADLKKAYLKLAKQYHPDTTDAKDAEKKFKEINAAYDVLKDEQKRAAYDRLGHDAFQNQQSRGGGGNHGGFHPDINDIFGDFFSDFMGGSRRSSRPTSAKVRGSDLKYNLTINLEEAFHGIEKNISFSSAVKCDTCHGSGSEKGETVTTCDACSGVGVTRMQQGFFTIEQACHKCQGNGHIIKKPCKKCHGMGRYHKQRNLSVNIPAGVENGTRIRHTGEGEAGIRGGNSGDLYVDIAIKPHDIYKVDGAHLHCKLPISFVNAALGGEIEVPVIEGGKVKLTIPAGTQNGDQLRLRNKGMSKMRSTIRGDMLTHMHVEVPKNLSKRQRELLEEFKKESINEKENDGSFFNKMKSLWS |
| 5729 | sp|A1V9Q3|DNAJ\_DESVV | MSQRDYYEVLGVARDASEDDIKRAYRKLALQYHPDRNPDDPEAEQKFKEAAEAYDVLRDGEKRARYDRFGHAGVGNGGGFGQGFSSNEDIFAHFSDIFGDLFGFAGAAGGRSRGPRPQAGSDLRYNLTISFRQAAKGDEVTLRLPKSVPCDECGGSGAAPGTRPETCRHCGGAGQIRQSQGFFQIAMPCPVCRGEGTVITSPCPKCKGSGQTQQVKELSVRIPAGVDTGNRLRLRGEGEPGIHGGPAGDLYVVISVEDDKTFRRQGQDLVVTREISFVQASLGDRIDVPTLDDDITLDIPAGTQSGEVFRLVDKGLPYLGHGHTGDLLVEIRVVTPTRLTKKQEELLREFALLDEEKPLEKVKKMARKIGKAMGMD |
| 5730 | sp|Q5HCG4|DNAJ\_EHRRW | MSKSDYYDLLGLSKNATPEEIKKAYRKMALKYHPDKNPGDKAAEEKFKELSEAYDVLIDKDKRAAYDRYGHSAFSDGSGRGGFDFNSGFSTDFSDIFNDLFGGGFRGGRSSSKRQDGGTVGSDLRLDIEITLEDSFNGTKVPINYVTHVKCSSCSGSGSEGSVKSVQCNTCHGAGNIRTQQGFFTIERTCHVCNGEGEIIKNKCKKCSGSGRVRDEVNLLVTVPKGIESGDKIRLNGKGEAGYRGAQSGDLYVYPNIKKHKFFTRNGADLYCNVPIKMILATLGGHIEMPSIDGTWTKVKVPEGSQNGDKLRLKEKGMPVINSSRRGDMYIQITVETPINLTKQQKELLKKFDEEPNTVECNPQSTGFFQKVKSFWNDIRSS |
| 5731 | sp|P43644|DNJH\_ATRNU | MFGRAPKKSDSTRYYEILGVPKDASPEDLKKAYKKAAIKNHPDKGGDPEKFKELAHAYEVLSDPEKREIYDQYGEDALKEGMGGGGGMHDPFDIFQSFFGGSPFGGVGSSRGRRQRRGEDVVHPLKVSLEDLFTGTTKKLSLSRNVICSKCTGKGSKSGASMKCSGCQGTGMKVSIRHLGPSMIQQMQHPCNECKGTGETINDKDRCPQCKGEKVVQEKKVLEVVVEKGMQHGQKITFPGEADEAPDTVTGDIVFVLQQKEHPKFKRKGEDLFYEHTLSLTEALCGFRFVLTHLDGRQLLIKSNLGEVVKPDQFKAIEDEGMPIYQRPFMKGKMYIHFTVEFPDSLNPDQVKSLEAILPPKPSMSLTYMELDECEETTLHNVNIEEEMKRKQTQAQQEAYDEDDEPAGGQRVQCAQQ |
| 5732 | sp|B0TYF3|DNAJ\_FRAP2 | MQQKCYYEILNVSKTASGVEIKRAYRKLAMKYHPDRNPDDKEAEIKFKEISEAYEILSDDGKRSRYDQFGHAGVNQQGGAGSAGGFGGFEDIFDTFFGGGTSRGSNRSRASRGSDLEYTIEISLEEAFFGVEKEINIPRMESCDSCDGTGSKSKTKTTCHACHGQGTIRRQQGFFAFEQTCPVCNGTGSSIADPCDDCYGSGKIKKQKTIKVKIPEGVDNGDRIRLQGEGDSGSNGAMNGDLYIQILVKEHKIFERRDMNLYCEMPISFTKACLGGEIKVPTLDGEVVLKVVPETQTGKVFRLRERGMKSLRGQRRGDLLCKVVVETPINLNSEQKELLEKFADSLGEDYQSKHSPKSKTWFDNVKDYAKKFFE |
| 5733 | sp|Q02912|DHSO\_BOMMO | MTENYAAVLHGANDVRIEKIPVPEINDDEVLIKIDCVGICGSDVKLYSTGTCGADVIDKPIVIGHEGAGTVVKVGDKVSSLRVGDRVAIEPTQPCRSCELCKRGKYNLCVEPRYCSSMGAPGNLCRYYKHVADFCHKLPDNLTMEEGAAVQPLAIVIHACNRAKITLGSKIVILGAGPIGILCAMSAKAMGASKIILTDVVQSRLDAALELGADNVLLVRREYTDEEVVEKIVKLLGDRPDVSIDACGYGSAQRVALLVTKTAGLVLVVGIADKTVELPLSQALLREVDVVGSFRIMNTYQPALAAVSSGAIPLDKFITHRFPLNKTKEALDLAKSGAAMKILIHVQN |
| 5734 | sp|Q9Z1Z1|E2AK3\_RAT | MERATQPRPRALLLLFLLLGCAAGISAVARARSLLAPTSDTAFGLGAAAAPTSAARVPAVATAEVTVEDAEALPAASGEQESRATESDDDVELRPRGRSLVIISTLDGRIAALDAENHGKKQWDLDVGSGSLVSSSLSKPEVFGNKMIIPSLDGDLFQWDRDRESMEAVPFTVESLLESSYKFGDDVVLVGGKSLTTYGLSAYSGKLRYICSALGCRRWDSDEMEEEEDILLLQRTQKTVRAVGPRSGSEKWNFSVGHFELRYIPDMETRAGFIESTFKLGGNKEDSKIISDVEEQDVDTVIKVSVADWKVMAFSKKGGRLEWEYQFCTPIASAWLVRDGKVIPISLFDDTSYTANEEVLEDEEDIVEAARGATENSVYLGMYRGQLYLQSSVRVSEKFPTRPKALESVNGESAIIPLPTIKWKPLIHSPSRTPVLVGSDEFDKCLSNDKYSHEEYSNGALSILQYPYDNGYYLPYYKRERNKRSTQITVRFLDSPHYSKNIRKKDPILLLHWWKEIFGTILLCIVATTFIVRRLFHPQPHRQRKESETQCQTESKYDSVSADNSDNSWNDIKHSGYVSRYLTDFEPIQCMGRGGFGVVFEAKNKVDDCNYAIKRIRLPNRELAREKVMREVKALAKLEHPGIVRYFNAWLETPPEKWQEEMDEIWLKDESTDWPLSSPSPMDAPSVKIRQMDPFSTKEQIEVIAPSPERSRSFSVGISCGRTSSSESQFSPLEFSGTDCGDNSDSEDAAHNLQDSCLTDCDMEDGTVDGDDEGHSFELCPSEASPYTRSREGTSSSIVFEDSGCDNASSKEDPRMNRLHNGHHYVNKLTEFKHSSSRSSSEATLSTSPTRPTTLSLDFTRNTVDRLQPSSPKVYLYIQMQLCRKENLKDWMNRRCSMEDREHRVCLHIFLQIAEAVQFLHSKGLMHRDLKPSNIFFTMDDVVKVGDFGLVTAMDQDEEEQTVLTPMPAYATHTGQVGTKLYMSPEQIHGNNYSHKVDIFSLGLILFELLYPFSTQMERVRTLTDVRNLKFPPLFTQKYPQEHMMVQDMLSPSPMERPEATDIIENAVFENLEFPGKTVLRQRSRSLSSSGTKHSRQPSSTFSPLPGN |
| 5735 | sp|Q9FJ93|DRE1D\_ARATH | MNPFYSTFPDSFLSISDHRSPVSDSSECSPKLASSCPKKRAGRKKFRETRHPIYRGVRQRNSGKWVCEVREPNKKSRIWLGTFPTVEMAARAHDVAALALRGRSACLNFADSAWRLRIPETTCPKEIQKAASEAAMAFQNETTTEGSKTAAEAEEAAGEGVREGERRAEEQNGGVFYMDDEALLGMPNFFENMAEGMLLPPPEVGWNHNDFDGVGDVSLWSFDE |
| 5736 | sp|P37476|FTSH\_BACSU | MNRVFRNTIFYLLILLVVIGVVSYFQTSNPKTENMSYSTFIKNLDDGKVDSVSVQPVRGVYEVKGQLKNYDKDQYFLTHVPEGKGADQIFNALKKTDVKVEPAQETSGWVTFLTTIIPFVIIFILFFFLLNQAQGGGSRVMNFGKSKAKLYTEEKKRVKFKDVAGADEEKQELVEVVEFLKDPRKFAELGARIPKGVLLVGPPGTGKTLLAKACAGEAGVPFFSISGSDFVEMFVGVGASRVRDLFENAKKNAPCLIFIDEIDAVGRQRGAGLGGGHDEREQTLNQLLVEMDGFSANEGIIIIAATNRADILDPALLRPGRFDRQITVDRPDVIGREAVLKVHARNKPLDETVNLKSIAMRTPGFSGADLENLLNEAALVAARQNKKKIDARDIDEATDRVIAGPAKKSRVISKKERNIVAYHEGGHTVIGLVLDEADMVHKVTIVPRGQAGGYAVMLPREDRYFQTKPELLDKIVGLLGGRVAEEIIFGEVSTGAHNDFQRATNIARRMVTEFGMSEKLGPLQFGQSQGGQVFLGRDFNNEQNYSDQIAYEIDQEIQRIIKECYERAKQILTENRDKLELIAQTLLKVETLDAEQIKHLIDHGTLPERNFSDDEKNDDVKVNILTKTEEKKDDTKE |
| 5737 | sp|B8H444|FTSH\_CAUVN | MNFRNLAIWLVIVAVLGGVFVVSQNSRTKSSSEISYSQLLKDVDAGKIKSAEIAGQTVLAKTADNKTLTVNAPMNSEELVNRMVAKNADVKFKSGSISFLAILVQLLPILLVVGVWLFLMRQMQGGAKGAMGFGKSKARLLTENKNRITFEDVAGVDEAKEELQEVVDFLKDPAKFQRLGGKIPKGALLVGPPGTGKTLIARAVAGEAGVPFFTISGSDFVEMFVGVGASRVRDMFEQAKKNAPCIIFIDEIDAVGRHRGAGLGGGNDEREQTLNQLLVEMDGFEANEGIILIAATNRPDVLDPALLRPGRFDRQVVVPNPDVAGREKIIRVHMKNVPLAADVDVKTLARGTPGFSGADLANLVNEAALMAARKNRRMVTMQDFEQAKDKVMMGAERRSMAMNEEEKKLTAYHEGGHAIVALNVPLADPVHKATIVPRGRALGMVMQLPEGDRYSMKYQQMTSRLAIMMGGRVAEEIIFGKENITSGASSDIKAATDLARNMVTRWGYSDILGTVAYGDNQDEVFLGHSVARTQNVSEETARLIDSEVKRLVQYGLDEARRILTDKIDDLHTLGKALLEYETLSGEEIADILKGIPPKREEEEAATAVIAPSLVPLSPGAGASVTA |
| 5738 | sp|Q8FM79|GRPE\_COREF | MTDSYKLPDNPGDPDATDDEGIHPDEVENLIEEAERTQGGSEDDDLLTTEPDPVVDAREDDRDPTLEEDLEGDLQAVLDDIDAELGVADTPEATGDLPTTEAQLAERTEDLQRVTAEYANYRRRTERERAGIIDTAKSGVVSKLLPILDDLDLAEQHGDLEEGPLKAFADKFRNTLTGLKVEAFGVPGDTFDPEIHEAVQDLSEGDTKVLGTVLRKGYRFNDKLIRNAMVIIADPEK |
| 5739 | sp|A6LRN3|GRPE\_CLOB8 | MEENRDVKNEELEKEEIADEVAEKDNETQESNDAAETNEASKEASENIEAAEEDQEDLVKNQEEENKKLREELDATKDRLLRLTAEYDNYRKRTAKEKEGIYSDAYVDVLKEIVPILDNLERAVAADGSIEDLKKGIEMTIKGCKDSFAKLGVEEIDATGEFDPNLHNAVMHIEDEELGKNVVAEVFQKGYKKDDKIIRHTMVKVAN |
| 5740 | sp|Q7VVY0|GRPE\_BORPE | MTAPQEPVDSTPESGENAATPGLEDDLSAELAALRAELEAAQATVKAQQEQVLRAAAEAENVRRRAQEDVAKARKFGIESFAESLVPVKDSLEAALAQPDQAAQAWREGVEVTLKQLTAAFERNLLKEIAPAQGDKFDPHLHQAISSVPADQPANTVLQLLQKGYVIADRTLRPALVVVSAGQG |
| 5741 | sp|A0RPW8|GRPE\_CAMFF | MSEDTNKNENVDNIPDNFDDNVSFTKLNEDVKDELALAKESLMRATADFENIKKRLEREKGEAVKFANESFARDLLPVIDALEIASNLQSGDDEIANKIKDGINLTIEQFKKCFEKYGIKEIRTDAEFNPEFHNAINYIESDEVESGKIAAVYQKGYLYNDRVLRPSMVVIAK |
| 5742 | sp|Q861Y2|ANGI\_RHIBE | MVMGLGLFLLVFMLGLGLTPPTLAQDNSRYRDFLTKHYDATPQGRNDRYCESMMRRRGLTSPCKDINTFIHGNSRHIKAICGDENGNPYGENLRISKSPFQVTTCNLRGGSSRPPCRYRATAGFRNIVVACENDLPVHLDQSIFRP |
| 5743 | sp|Q6Z4A7|APR1\_ORYSJ | MASATASISSHSVALRDLKAARIGAVKQQVAAAPAAGTAAARAQRARAVRPLRAAEPARQPVSASAAAAPAAAPVAEDAAAAAVDAPAPAVDYEALAQELQGASPLEIMDRALAMFGSDIAIAFSGAEDVALIEYAKLTGRPFRVFSLDTGRLNPETYQLFDKVEKHYGIRIEYMFPDAGEVQALVRAKGLFSFYEDGHQECCRARKVRPLRRALRGLRAWITGQRKDQSPGTRAAIPVVQVDPSFEGLAGGAGSLVKWNPVANVDGKDVWTFLRAMDVPVNALHAQGYVSIGCEPCTRPVLPGQHEREGRWWWEDAKAKECGLHKGNIDDQGGAAAAAAHKAGGANGNGSAGAPDIFESSGVVSLTRAGVENLLRLESRAEPWLVVLYAPWCPFCQAMEASYLELAERLGGAGGGVKVGKFRADGEQKAFAQQELQLQSFPTILLFPSRTARPIKYPSEKRDVDSLLAFVNSLR |
| 5744 | sp|Q92J36|DNAK\_RICCN | MGKVIGIDLGTTNSCVAVMEGKEPKVIENAEGERTTPSIIAFANGEKLVGQSAKRQAVTNPRNTIYAVKRLIGRNFIDPMVRKDQGIVPYNIVKADNGDAWVEADNNKYSPSQISAFILQKMKETAENYLGDKVTQAVITVPAYFNDAQRQATKDAGKIAGLEVLRIINEPTAAALAYGFEKSASKTIAVYDLGGGTFDVSILEIADGVFEVKSTNGDTFLGGEDFDTRILNHLIDVFKKENGIDLSKDPLALQRLKEAAEKAKKELSSAVTTDINLPYITADSSGPKHLNIKFTRAELEKLVDDLIEKTIEPCRKALQDAGFKASDIQEVVLVGGMTRMPKVQEAVKKFFGREPHKGVNPDEVVALGAAIQGGVLNKEVTDILLLDVTPLSLGIETLGGVFTRLIDRNTTIPTKKSQIFSTADDNQHAVTIRVFQGEREMAKDNKLLGQFNLEGIPLAPRGLPQIEVTFDIDANGIVHVSAKDKASGKEQKVTIQASGGLSDAEIEQMVKDAEQNADEDKKRKELIEAKNAADSLVYSTEKTLTEYGDKLSSDDKGAVEAALAALKAVLESEDTALIKEKTESLTAASMKIGEAMYKAQSESQPAAESATNDEKIVDADFQDVEKK |
| 5745 | sp|Q8RB68|DNAK\_CALS4 | MGKVIGIDLGTTFSCVAVMEGGQPVVIPNSEGTRTTPSVVAFTKEGERLVGHPARRQAIINPERTIMSIKRHMGTDYKVKIDDKEYTPQEISAMILQKLKADAEAYLGEKVTQAVITVPAYFNDSQRQATKDAGRIAGLEVLRIINEPTAAALAYGLDKEGNQKVMVYDLGGGTFDVSILEIGDGVFEVLATSGNNHLGGDDFDQRIIDWLADNFQKEHGIDLRKDRMALQRLKEAAERAKIELSSAMVTNINLPFITADASGPKHIDVNLTRAKFEELISDLVESTVGPVKQALSDAGLKPEDIDKVLLVGGSTRIPLVQETVKKIMGKEPHKGINPDEAVAIGAAIQAAVLAGEIKDILLLDVTPLSLGIETLGGVFTKIIERNTTIPVRKSQIFTTAADNQTSVEIHVLQGERPLAKDNKSLGRFILSGIPPAPRGVPQIEVTFDIDANGIVHVSAKDLATGKSQQITITGSTNLSEEEIQRMINEAKQYEEQDRKKREEIEIRNRADSLIYQAEKTMKDLGDKMTQAEKDEINKEIENVRKALEGTDVEAIKAASEKLSEAFYKVSTRLYQQAAGSANPGGSQGTSQGNVYEADYKVEDDNK |
| 5746 | sp|A1A766|DNAK\_ECOK1 | MGKIIGIDLGTTNSCVAIMDGTTPRVLENAEGDRTTPSIIAYTQDGETLVGQPAKRQAVTNPQNTLFAIKRLIGRRFQDEEVQRDVSIMPFKIIAADNGDAWVEVKGQKMAPPQISAEVLKKMKKTAEDYLGEPVTEAVITVPAYFNDAQRQATKDAGRIAGLEVKRIINEPTAAALAYGLDKGTGNRTIAVYDLGGGTFDISIIEIDEVDGEKTFEVLATNGDTHLGGEDFDSRLINYLVEEFKKDQGIDLRNDPLAMQRLKEAAEKAKIELSSAQQTDVNLPYITADATGPKHMNIKVTRAKLESLVEDLVNRSIEPLKVALQDAGLSVSDIDDVILVGGQTRMPMVQKKVAEFFGKEPRKDVNPDEAVAIGAAVQGGVLTGDVKDVLLLDVTPLSLGIETMGGVMTTLIAKNTTIPTKHSQVFSTAEDNQSAVTIHVLQGERKRAADNKSLGQFNLDGINPAPRGMPQIEVTFDIDADGILHVSAKDKNSGKEQKITIKASSGLNEDEIQKMVRDAEANAEADRKFEELVQTRNQGDHLLHSTRKQVEEAGDKLPADDKTAIESALTALETALKGEDKAAIEAKMQELAQVSQKLMEIAQQQHAQQQTAGADASANNAKDDDVVDAEFEEVKDKK |
| 5747 | sp|B5RPM1|DNAK\_BORRA | MGKIIGIDLGTTNSCVAIMEHGKPVVIQNSEGGRTTPSIVAYTNKGERLVGQVAKNQMVTNPENTIYSIKRFMGRRFEEVASEIKMVPYKVEKGQNGDARVNISNIKKQMSPPEISAATLTKMKETAEAYLGEKVTEAVITVPAYFNDAQRQATKDAGKIAGLDVKRIVNEPTAAALAYGIEKKHEEIVAVYDLGGGTFDISILELGDGVFEVKSTNGDTHLGGDNFDDEIIKYLITEFKKDSAIDLSNDKMALQRLKEAAEKAKIELSGAQEASINLPFITADANGPKHLQYTLTRAKFEQMVDHLVQKTKEPCLKAIKDAGLKASDINEVILVGGSTRIPAIQKIVKEIFGQEPNKGVNPDEAVAIGAAIQGGILTGEAKDMVLLDVTPLSLGIETLGGVMTKLIERNTTIPTKKSQVFSTAADNQTSVDIKVLQGEREMASQNRVLGNFILDGIPAAPRGVPQIEVSFDIDANGIVHVSAKDMGTGKEQKIRIESSSGLSEEEIERMVKDAESHAEEDKKLKEGIEAKNIANSLIYQTEKSLKEYGEKITNQDKEAIENKIKELKDTLEGSDISLLKSKTEELQQASYKIAEMMYKDAQASSPAQNNAQNNAGSESKEADYEVVDEDKK |
| 5748 | sp|Q41649|FKB15\_VICFA | MKLFSIFLIFTIFIIASALVAAKSAADVTELQIGVKYKPASCEVQAHKGDKVKVHYRGKLTDGTVFDSSFERNSPIDFELGGGQVIKGWDQGLLGMCLGEKRKLKIPAKLGYGEQGSPPTIPGGATLIFDTELVGVNDKSLSEEKSTSSEL |
| 5749 | sp|Q03768|GIR2\_YEAST | MDYKEEQKQELEVLESIYPDELRIINDEYPKIKFEVAIKLELDTGDSTSVLTKEHTIIAEFKLPENYPDEPCLISLEAQEVALNDNEEDNEEDEDEVEYDDHGNKVLKKFENLPDLISFKGYLPELTVQLESQIETDMLLGMQMCFALISSIKERCEQWYSEQLNKLEKQYELEAQEREKKEQAKFHGTKVTRESYLEWRSKFRQELKLDERDQVRRMKAHHGKLTGKQMFEQGVVGTGDEYMEEDDASVDDVAKGLAKTEIANQ |
| 5750 | sp|Q08969|GRE1\_YEAST | MSNLLNKFADKLHGNDHDERYEDDNDDQTRQQRHEKHQQREFRNQGSKADPYGEENQGNFPQRQQPQSNLGGNTQFGGNDFQQQTTDYTAGTGGGTYTQTYRETNTQGQLDDDEDDDFLTSGQQQKQGRTRGAQSNRYQSSNIGSGRRDLSGSGNDEYDDDSGNQGVW |
| 5751 | sp|A7MHW7|GRPE\_CROS8 | MSSKEQKTPDGQAPEEIVTEQHEEVESVESAESAEQVDPRDEEIARLQSELTQAQNRERDTVLRMKAEMENLRRRTEQDIEKAHKFALEKFINELLPVIDSLDRALEVANKENQDMAAMVEGIELTLKSMLDVVRKFGVEVIADTNVPLDPNVHQAIAMVESEDVAPNHVLAVMQKGYTLNGRTIRAAMVTVAKAKA |
| 5752 | sp|A4JBR9|GRPE\_BURVG | MENTQENPATQSAEDIGSAKQAAQGAAPAAEAADAALAEAQAKVAELQESYLRAKAETENVRRRAQDDVSKAHKFAIESFAEHLLPVLDSLEAAAVDTSGDIAKVREGVELTLRQLTSALEKGRVVAINPVGEKFDPHQHQAISMVPAEQEPNTVVAVLQKGYMIADRVLRPALVTVAQPK |
| 5753 | sp|Q62HD3|GRPE\_BURMA | MENTQENPTDQTTEETGREAQAAEPAAQAAENAAPAAEAALAEAQAKIAELQESFLRAKAETENVRRRAQDDVAKAHKFAIEGFAENLLPVLDSLEAAVGDTSGDLAKVREGVELTLRQLTSALEKGRVAALNPVGEKFDPHLHQAISMVPADQEPNTVVAVLQKGYTIADRVLRPALVTVAQPK |
| 5754 | sp|Q5LED3|GRPE\_BACFN | MDPKEKKTKQEEELKVDDIQDTVEGQSQNEEATEATEPLTAEEKLEKELKEAQAQIEDQKDKYLRLSAEFDNYRKRTVKEKAELILNGGEKSIKSILPVIDDMERALTTMETATDVNAVKEGVELIYNKFLSILSQDGVKVIETKDQPLDTDYHEAIAVIPAPTEEQKGKILDCVQTGYTLNGKVIRHAKVVVGE |
| 5755 | sp|A8FLH1|GRPE\_CAMJ8 | MSEQKQEFENENAENSEHLQDENLQNIEDVEQNRLQKDYDELKDKYMRANAEFENIKKRMEKEKLSAMAYANESFAKDLLDVLDALEAAINVECHDEISLKIKEGVQNTLDLFLKKLEKHGVALIKEEKEFDPNLHEAMFHVDSQNHQSGEVVTVLQKGYKIADRVIRPTKVSVAK |
| 5756 | sp|Q3YSZ3|GRPE\_EHRCJ | MSDSDNNTKSQQNNPTQTDEKSGEEIQSNQKPQRKFTAVLNKKKEKLNEDLSELDKLKQQLAHFQNQFRLAVADKENVKRIMQKNIDDTSIYAISNFARDLLSSCDNLETSLKNLKEDDSIHAGVLMTYKELLNTLERHNITRIDPIGEKFNPQFHKAVSQMTDEDKDENTILHVVQPGYIIKDKLLRPASVIISKKSD |
| 5757 | sp|P26907|GSIB\_BACSU | MADNNKMSREEAGRKGGETTSKNHDKEFYQEIGQKGGEATSKNHDKEFYQEIGEKGGEATSKNHDKEFYQEIGEKGGEATSENHDKEFYQEIGRKGGEATSKNHDKEFYQEIGSKGGNARNND |
| 5758 | sp|G4NH08|GSK1\_MAGO7 | MSQNRPAAFNTLRMGEVIREKVQDGITGETRDLQYTQCKIVGNGSFGVVFQTKLSPSNEDAAIKRVLQDKRFKNRELQIMRIVRHPNIVQLKAFYYSNGERKDEVYLNLVQEFVPETVYRASRFFNKMKTTMPILEVKLYIYQLFRALAYIHSQGICHRDIKPQNLLLDPTTGILKLCDFGSAKILVENEPNVSYICSRYYRAPELIFGATNYTTKIDVWSTGCVMAELMLGQPLFPGESGIDQLVEIIKVLGTPTREQIRTMNPNYMEHKFPQIKPHPFNRVLRKADNNAIDLIARLLEYTPTERLGAIDAMVHPFFDDLRNPSTKLPDSRHQTGQVRDLPPLFDFNRHELSIAPQLNHQLVPPHVRPTLAAQGLDIDHFTPMRKEDMLARLD |
| 5759 | sp|A5ITA9|GRPE\_STAA9 | MTNKDESVEKNTESTVEETNIKQNIDDSVEQAEESKGHLQDEAIEETSDENVIEEIDPKDQKINELQQLADENEEKYLRLYAEFENYKRRIQKENEINKTYQAQRVLTDILPAIDNIERALQIEGDDETFKSLQKGVQMVHESLINALKDNGLEVIKTEGEAFDPNIHQAVVQDDNPDFESGEITQELQKGYKLKDRVLRPSMVKVNQ |
| 5760 | sp|Q9PB04|GRPE\_XYLFA | MNQDHPECDSEELTQNSPETDPLKVEVETLRGEIASIKADVLRERAELENQRKRLIRDVEQARKFANEKLLGELLPVFDSLDAGLTASGSEPSPLRDGLELTYKQLLKVATDNGLMLLDPVGQLFNPEHHQAISQTEVTDVEPGYVIQVFQKGYLLNERLLRPALVVVAKQD |
| 5761 | sp|Q7MA34|GRPE\_WOLSU | MNDNPANAEPQEEEVSLESQPSTPESGSDGSKEAELEAKIKELEDSYLRVHADFENTKKRLEREKFQALEYAYEKIAKDLLPIVDTLEIALKSANEVSGEESELQAKFKEGLELTLDNFSKVLQRHGIEMIACEGEFDPHLHECIMQVPSPSHQEGEIVQVFQKGYRYKERVLRPAMVSIAKSN |
| 5762 | sp|Q03FR8|GRPE\_PEDPA | MAKEKKEEVKEEEVSEATSTEGSTDVESTNNDDLTTETQATTALDDIKKVEAERDELSDKYIRAQAEIVNMRRRNEKEQASLIKYDGQKLAKAILPALDNLERALAVESASEQLLKGVKMVQTDLLKALKENHVAEIEAEGQAFDPNMHQAVQTVPADDDHPADTVVQVLQKGYILKDRVLRPAMVIVAQ |
| 5763 | sp|P95333|GRPE\_MYXXD | MTVIEVEASGPSTPVEAEASASPADTTSPPSDAEATPSEDVAALRQEVESLKAQLEFSQAKGRETMERLREAHERAKEAQERTVRHAADLENYRKRAQKEKEEVQRFGSEKLLKDLLPVMDNLDRAIDAAAKSPDLDSFEKGVAMTRKSFEDALGRHGVKGFSAKGQVFDPRVHEAIQQVETADVPAGHVAYEVVRGFYLNERLVRPAMVVVARAPAEPVAAAEPPAVAEPATATTDTEAPAAPAQSENSSGGSQ |
| 5764 | sp|Q9SWE5|HAL3A\_ARATH | MENGKRDRQDMEVNTTPRKPRVLLAASGSVAAIKFGNLCHCFTEWAEVRAVVTKSSLHFLDKLSLPQEVTLYTDEDEWSSWNKIGDPVLHIELRRWADVLVIAPLSANTLGKIAGGLCDNLLTCIIRAWDYTKPLFVAPAMNTLMWNNPFTERHLLSLDELGITLIPPIKKRLACGDYGNGAMAEPSLIYSTVRLFWESQAHQQTGGTS |
| 5765 | sp|Q6AC77|GRPE\_LEIXX | MSDQNLGQGSDEPEREEPIVRDKRRIDPETGKVREPQDLSHEELVDVGPAGESQGEEILSDDDLDLLSGQTTADQLAADQLAADQLAAERLADLQRVTAEYANYRKRTESNREIERERAIGDAVKGLIPVLDDLERADTHGDLIEGSAFATIAAKLRASVERLGLLPYGEKGEPFDPQIHEAIFQQPTPGVTADTVADVVETGYRLGSTTVRVAKVVVAVPA |
| 5766 | sp|Q70WY9|GRPE\_FUSNP | MKDKDIKEEVLKEEINKEVNEELKNEEVKEETHEHEHKHGGHTCCGKHGHKHNDEEIGKLKAEIEEWKNEYLRKQADFQNFTKRKEKEVDELKKFASEKIITQFLGSLDNLERAIESSIESKDFDSLLKGIEMIVRNLKDIMSAEGVEEIKTEGVYDPVYHHAVGVEANEDFKEDEIVKVLQKGYMMKGKVIRPAMVIVCKK |
| 5767 | sp|Q2G6M5|GRPE\_NOVAD | MSDNDTRPTDAEVEAELKGVPEDMIDRTSDNDELAKLREELETARQDVLYAKAETQNVRRRMEKDVADARAYAATGFARDILSVADNLSRALESIPADLREDDKFKNLVAGLEATGREIEKVFSSHGIVRIAAMGLPLDPHQHQAMIEMPSADAEPGTVIQELQAGYMIKDRLLRPAMVAVAKKPD |
| 5768 | sp|Q3YYM5|GRPE\_SHISS | MSSKEQKTPEGQAPEEIIMDQHEEIEAVEPEASAEQVDPRDEKIANLEAQLAEAQTRERDGILRVKAEMENLRRRTELDIEKAHKFALEKFINELLPVIDSLDRALEVADKANPDMSAMVEGIELTLKSMLDVVRKFGVEVIAETNVPLDPNVHQAIAMVESDDVAPGNVLGIMQKGYTLNGRTIRAAMVTVAKAKA |
| 5769 | sp|Q6NCY6|GRPE\_RHOPA | MTETDGQKDNNQDTAQAAADPVVSKPYIMPDDPEEGSNEALVREAADARDKMLRTLAEMENLRKRTQKEVADARTYGVTSFARDVLDIADNLQRALDAVPADARANAEPGLKALIEGVELTERSLLNALEKNGVKKFDPKGQKFDPNFQQAMYEVPDPSVPAGTVVQVVQAGFTIGDRVLRPALVGVAKGGAKAAPSDGGGETGNLN |
| 5770 | sp|B2SXC5|GRPE\_PARPJ | MENTQENPTSQNPTPADETARQAAEAAAPQQEAAANAATDSPVNAEQSALAEAEAKIAELQESFLRAKAETENVRRRAQEDVAKAHKFAIESFAEHLLPVIDSLEAAVAHSSDDLQKVREGVELTLRQLTGALEKGRVVALNPVGEKFDPHRHQAISMVPAEQEPNTVVAVLQKGFVIADRVLRPALVTVAAPK |
| 5771 | sp|P40267|H1\_SOLPN | MTAIGEVENPTVVQRPTEASKVKEQAPATDKKPRAPKEKKPKSAKAVTHPPYFQMIKEALLALNEKGGSSPYAVAKYMEDKHKDELPANFRKILGLQLKNSAAKGKLIKIKASYKLSEAGKKETTTKTSTKKLPKADSKKKPRSTRATATAAKKTEVPKKAKATPKPKKVGAKRTRKSTPAKAKQPKSIKSPAAKRAKKIAV |
| 5772 | sp|A6U5E2|GRPE\_SINMW | MTDETNKNGPEAAAPEEFDAAAQPETAEEPEADVSAAAPDPLELAKAENAELRDKYLRLAAEMDNLRRRTERDVKDAKSYSVAGFARDMLAVSDNLRRALDAIPADAREAGDAGLKALIEGVEMTERSMLAALERHGVKQLDPTGQKFDPNFHQAMFEVPNPEVPNNTVVQVVQAGYTIGERVLRPAMVGVAKGGPKAASSEGETPPA |
| 5773 | sp|Q9HRY0|GRPE\_HALSA | MSDHAEHAADAADTDAPEGDDAGGDDGEQAGDDGTSALSERVRALDADNADALADDVAALEARVETLTDELADAEDEVADLTERVQTKQADFKNYKERAKRKQEEIRERATEDLVERLLDVRDNLDRALDQEESESDEDGIREGVELTRDEFDRVLETEGVTEIRPEPGDSVDAARHEVMMRVDSDQPAGTIVDVYRPGYEMSGRVVRAAQVTVSEE |
| 5774 | sp|Q31DG8|GRPE\_PROM9 | MIENQSDNIDIKENDVLNQDNAPEDNSSAAEKTIENDELSPQKTEEINTEELKNTISNNDARLEQLEKEHETLKNQYVRISADFDNFRKRQSRDQDDLKVQLVSKTLTAILPIVDNFERARQQLKPESEEAQALHRSYQGLYKQLVEVLKQQGVSPMRVVGQQFDPNLHEAVLREPSEEFKEDLIVEELQRGYHLEGKVLRHALVKVSMGHGQQNSQEEVEKDTVEEDIDSEENTSEDV |
| 5775 | sp|A6WL03|GRPE\_SHEB8 | MSNESIKAEQDLIQEGVESEVSTAEASLIDELTQANFRIEELEQLLAEALAKVEEQKDSVIRAAAEVDNIRRRAAMDVEKANKFALEKFANELLPVLDNMERALMGTNPEDEATKSIYQGVELTQKSLLTAVAKFGVKQIDPQGQSFNPDQHQAIGMQPSAEFPANTVMLVMQKGYELNSRLLRPAMVMVSQGGPNQESATIDIEA |
| 5776 | sp|A4XYF7|GRPE\_PSEMY | MADEQNLDTQNPEAQAAENAAPSDDLAARVQALEEQLAAAQDQSLRMAAELQNVRRRAEQDVEKAHKFALEKFANDLLPVVDSLERGLELSSPDDEAIKGVREGMQLTLKLFIDTLARHQLEAVEPHGEPFNPEHHQAMAMEESTHVEPNSVLKVFQKGYLLNGRLLRPAMVVVSKAPTTPPPSIDEQA |
| 5777 | sp|B5BE99|GRPE\_SALPK | MSSKEQKTPEGQAPEEIIMDQHEEVEAVEPNDSAEQVDPRDEKIANLEVQLAEAQTRERDTVLRIKAEMENLRRRTEQDIEKAHKFALEKFVNELLPVIDSLDRALEVADKANPDMAAMVEGIELTLKSMLDVVRKFGVEVIAETNVPLDPNVHQAIAMVESEEVPAGNVLGIMQKGYTLNGRTIRAAMVTVAKAK |
| 5778 | sp|Q12L25|GRPE\_SHEDO | MSTEPTNQDQAPIDEALTQEVAQDEASLMDELTQANFRVEELEQLLAESQAALAERKDVEMRAAAETQNIRTRAAKDVEQARKFALEKFANELLPVIDNMERALQGTNPEDEATKAIYEGVELTMKGFLTSVEKFGVKQVNPQGETFNPDHHQAIGMQPSPDFPANTVMMVMQKGYLLNDRLLRPAMVMVSQGGPSVDIEA |
| 5779 | sp|B6JPL1|GRPE\_HELP2 | MKDEHNQEHDHLSQKEPEFCEKACACKEQQNEEMQEASEKECEIKEDFELKYKEMHEKYLRVHADFENVKKRLERDKSMALEYAYEKIALDLLPVIDALLGAYKSAAEVDKESALTKGLELTMEKLHEVLARHGIEGIECLEEFDPNFHNAIMQVKSEEKENGKIVQVLQQGYKYKGRVLRPAMVSIAKND |
| 5780 | sp|Q0HSW5|GRPE\_SHESR | MSNESIKAEQDLIQEGVESEVSTEEASLIDELTQANFRIEELEQLLADALAKVEEQKDSVIRAAAEVDNIRRRAAMDVEKANKFALEKFANELLPVLDNMERALQGTNPQDETTKAIYEGVELTQKSFLTAVAKFGVKPIDPQGQAFNPDQHQAIGMQPSAEYPANTVMLVMQKGYELNSRLLRPAMVMVSQGGPSQEINIEA |
| 5781 | sp|A8F5B4|HFQ\_PSELT | MTEKFNLQDRFLNMLRTGKIEVKVYLVNGFQTKGIIRSFDSYTILLESENQQNLIYKHAISTIMPSSFVRLVKKEEEEQEGQTESATNKTQ |
| 5782 | sp|Q8D317|HFQ\_WIGBR | MAKGQSLQDPFLNTLRRERIPVSIYLVNGIKLQGYIESFDQFVILLKNSISQMIYKHAISTVVPNHTNNQEHNQSQYNNNNACISKP |
| 5783 | sp|B2I691|HFQ\_XYLF2 | MAKGQSLQDPFLNALRRERVPVSVYLVNGIKLQGTIESFDQFVVLLRNTVSQMVYKHAISTVVPARNVRVGPGGGYVHSGSDTLQINDDEVE |
| 5784 | sp|Q1GGX7|HFQ\_RUEST | MASDRQNLQDAFLNHVRKTKVPVTIFLINGVKLQGVITWFDNFCVLLRRDGQSQLVYKHAISTIMPAQPISLYEGEDSN |
| 5785 | sp|B7V207|HFQ\_PSEA8 | MSKGHSLQDPYLNTLRKERVPVSIYLVNGIKLQGQIESFDQFVILLKNTVSQMVYKHAISTVVPSRPVRLPSGDQPAEPGNA |
| 5786 | sp|C1F408|HFQ\_ACIC5 | MDNKPAQNIQDTFLNTVRKDKTPITIYLVSGVKLTGKIRSFDKYSVLLENNSQEQLIFKHAISTVVSSRSVLHGDHRPGVAGHGAPPISPTPPAGTHSTPGESSGA |
| 5787 | sp|B1JT87|HFQ\_BURCC | MSNKGQLLQDPFLNALRKEHVPVSIYLVNGIKLQGNIESFDQYVVLLRNTVTQMVYKHAISTVVPARPVNFHPDAEASS |
| 5788 | sp|Q11HW7|HFQ\_CHESB | MAERSQNLQDLFLNTVRKSKNPLTIFLINGVKLTGVVTSFDNFCVLLRRDGHSQLVYKHAISTIMPSQPVQLFEAEEGSREG |
| 5789 | sp|Q5HQI5|CLPB\_STAEQ | MDINQMTYAVQGALQKAVAYSKEYELQNIEVEALLKAAMNENDSLFKSILERANIDVDQLIKAYDNQLSHYPTVQGDNVQYGQYISAKTNELLDKAEKYMKSYEDEFISMEHILRAAIDTDETTQKWVGNKVEVIKEIITKVRGGNHVTSQNPEVNYEALEKYGRDLVEEVRQGKMDPVIGRDEEIRNTIRILSRKTKNNPVLIGEPGVGKTAIVEGLAQRIVRKDVPESLLDKTIFELDLSALVAGAKYRGEFEERLKAVLKEVKESEGRIILFIDEIHMLVGAGKTDGAMDAGNMLKPMLARGELHCIGATTLNEYREYIEKDSALERRFQKVGVSEPDVEDTISILRGLKERYEVYHGVRIQDRALVAAAELSDRYITDRFLPDKAIDLVDQACATIRTEMGSNPTELDQVNRRVMQLEIEESALKNESDNPSKHRLEELQEELSNEKEKQSSLKSRVEQEKEKIAKVQEKRAELDSSRQALEDAQTEGNLEKAAELQYGTIPQLEKELQKFEEAFQDETGEDSERMIREVVSDEEIGDIVSQWTGIPVSKLVETEREKLLSLSDILHKRVVGQDKAVDLVSDAVVRARAGIKDPNRPIGSFLFLGPTGVGKTELAKSLASSLFDSEKHMIRIDMSEYMEKHAVSRLIGAPPGYVGHDEGGQLTEAVRRNPYSVILLDEVEKAHSDVFNVLLQILDEGRLTDSKGRSVDFKNTIIIMTSNIGSQVLLENVKDAGEISDDTEKAVMDSLHAYFKPEILNRMDDIVLFKPLSVNDMSMIVDKILTQLNMRLLDQHISIEVTEEAKKWLGEEAYEPQFGARPLKRFVQRQIETPIARMMIKESLPEGTIIKVDLNDNKELDFKVVKPTS |
| 5790 | sp|Q8G4X4|CLPB\_BIFLO | MEQKFTTMAQEAVGDAIQSASAAGNAQVETLHVMDALLRQENGVARSLIEAAGGDPQAIGAAVRNALVALPSASGSSTSQPQASRQLTAAIAQAEKEMQQMGDEYVSTEHLLIGIAASKPNQSAEILEKNGVTAASLRKAVPGVRGGAKVTSPDAEGSYKALEKYSTDLTAAAKEGKLDPVIGRDQEIRRVIQILSRRTKNNPVLIGEPGVGKTAVVEGLAQRIVAGDVPTTLQGKKLISLDLGSMVAGSKYRGEFEERLKSVLNEIKNADGQIITFIDEIHTIVGAGAAEGSMDAGNMLKPMLARGELRLIGATTLDEYRENIEKDPALERRFQQVFVGEPSVEDTIAILRGLKQRYEAHHKVTIGDDALVAAATLSNRYISGRQLPDKAIDLVDEAAAHLRMELDSSPEEIDELQRKVTRLEMEEMQLKKAEDPASKERLGKLQAELADTREKLSGLKARWDAEQAGHNKVGDLRAKLDDLRVQADKYTREGNLAEASKILYGEIPSIQKELAAAESADAESADASAANPADEPMVPDRVDADSVAEIVSDWTGIPVGRLMQGENEKLLHMEDYLGKRVIGQKEAIAAVSDAVRRSRAGISDPNRPTGSFLFLGPTGVGKTELAKALADFLFDDEKAMVRIDMSEYMEKASVSRLIGAAPGYVGYEQGGQLTEAVRRRPYSVVLFDEVEKANPEIFDVLLQVLDDGRLTDGQGRTVDFKNTILIMTSNLGSQFLVNEDMDADAKKKAVMDAVHMNFKPEFLNRLDDIVMFHPLTREELGGIVDIQVAGVSQRLTDRRITLDVTDSAREWLANTGYDPAYGARPLRRLVQTEVGDQLARMLLAGKVHDGDTVLVDQTGGEHLELSAWASDQIVSDNPDVSVDNVTEDK |
| 5791 | sp|Q97KG0|CLPB\_CLOAB | MDVDKLTLKVQQAINDCQTIAVRYNHQQIDTIHLFMAIISQEDGLIPNILGKMGADVETVKRDTEAELDRMPKVLGEGAQNASIYATRRFEEVFVRGEKISRDFKDLYISVEHVMLALMDIDSGAIKSILDKNNISKKEFLKALREVRGNQRVDTSDPEGTYDALNKYGRDLVKDAKKHKLDPVIGRDEEIRRVIRILSRRTKNNPVLIGEPGVGKTAIVEGLAERIVRGDVPEGLKNKIIFSLDMGSLVAGAKYRGEFEERLKAVLKEVERSEGKIILFIDEIHTIVGAGKTEGAMDAGNIIKPMLARGELHCIGATTFDEYRKYIEKDKALERRFQKVQIDEPTVDDAISILRGLKERFEIHHGVRIHDNAIVAAAKLSDRYITGRFLPDKAIDLIDEAGAMVRMEIDSMPTELDMLKRKIFQMEIEKEALSKESDKFSRERLESIQKELSDLKDKDKAMTAKYDKEKAQIQGIKELKTKLDEIRGQIEKAEREYDLNKAAELKYGEVPKLEHEIEEKENLIKQNGQNAMLKEEVTEEQVSNIVSKWTGIPVSKLVEGERNKLMRLSDELEKRVVGQTEAVKSVADAVIRARAGLKDMSKPIGSFIFLGPTGVGKTELAKTLARVMFDSEDNIIRIDMSEYMEKYSVSRLIGSPPGYVGYEEGGQLTEAVRRKPYSVILFDEIEKAHSDVFNIFLQIFDDGRLTDNKGNTIDFKNSIIIMTSNIGSEHLLNNKGVSNVDEETKDKVMNELKGRFKPEFLNRLDDIIMFKPLSINEIGKIIDIFLENIKSKLKEKNIKIDIAEEAKKIIAEEGYDPVYGARPLKRYIENTIETHIAKMFISGEISEGDILKIEGSDSKLTIVKK |
| 5792 | sp|Q9PI02|CLPB\_CAMJE | MANIQDFLTDNMLSNLESAASLAIHSKNNEVVPLHLLWALSVDSTSILNQILNKLNISKEALELEIKSRISKLATSSNVNRENIRFSNELINSLENAKGLMSANGDSYLSVDTWLISESQKSPIKEILAQFLDLREFQKELESLRAGRKMDSKTSDETLDSLNKFGIDLTLKASEGKLDPVIGREEEIERLMQILIRKTKNNPILLGEPGVGKTAIVEALAQRIIKKDVPKSLQNKKVIALDMSALIAGAKYRGEFEDRLKAVVNEVIKSENIILFIDEIHTIVGAGASEGSMDAANILKPALARGELHTIGATTLKEYRKYFEKDAALQRRFQPVNVGEPSVNEALAMLRGIKEKLEIHHNVTINDSALVAAAKLSKRYIADRFLPDKAIDLIDEAAAELKMQIESEPSSLRKVRKDIETLEVENEALKMENDEKNQKRLDEIAKELANLKEKQNALNSQFENEKSVFDGISAKKKEIDLLKNEASLAKARGEFQKAAELEYGKIPSLEKEVEILEDKWKKMSENGVLLKNQVDEDLVAGILSKWTGISVQKMLTSEKQKFLEVEKHLKESVIGQDKALSALARAIKRNKAGLNADNKPIGSFLFLGPTGVGKTQSAKALAKFLFDDEKAMIRFDMSEFMEKHSVSRLLGAPPGYIGHEEGGELTEAVRRKPYSVLLFDEVEKAHKDVFNVLLGILDDGRATDSKGVTVDFKNTIIILTSNIASNAIMNLSGKEQEDAVKNELKNFFKPEFLNRLDDIITFNPLGKDEAYEIVKLLFKDLQMSLENKGIKASLSENAALLIAKDGFDPDFGARPLRRAIYDLIEDKLSDMILADELHENDSIIIDAKDDEIIIKKA |
| 5793 | sp|Q7NAZ3|CLPB\_MYCGA | MFASFTPTEEKNVLSKYSRNLNDEIARNAIDPTIGREEEIRRLIEILSRKNKNNPVLIGEPGVGKTAIVEGFARKIVNGDVPDNLKDVEVVELSLSSLIAGTQFQGSFEERLNKILKEVKNSSGKVILFIDEIHQLVGMGKNSSNSAMDAANILKPMMARGEIKVIGATTIDEYRKYIEKDGALERRMQKILVDEPTKQEALTIMRGLRERWEAFHKVRIFDDALVAAVEMSARYISDRYLPDKAIDLIDEAAAKIKTLIHSLPPELDNIKQKIIHLSTELAALEREKKENHSNVRLGRIEQLKKEIKDFTNKQNELTVKWTQQKTIYECINKLKEEVTNLTAEIERLQAKGEYTQASKLLYLEIPKRQEEIEKKTKELSEFTDNLIKTSISRVEIAEVISQATKIPLSKLVASEQQKLLNLKNDLSKYIKGQDHAIKNVSDAVLRGRAQINDPNRPIGSFLFLGPTGVGKTEVAKKLAYCLFDNEKAMVRIDMSEFMERHSVDKLIGSPPGYIGYDQPGVLSDAIRTKPYAVVLFDEIEKAHPDVLNILLQILDDGQLTDNHNRLVNFKNTIIIMTSNIGAEHILANNPAKTIEELKRKIRPELLNRIDELITFKALNDKDLSAIAQKLLSDLSDRIKKQQINITFDKKIVENVVKHGSNTVFGARPLKRYIQREVENFLAKKIIENKLEKNKSYVCTFNAETNEYTLVNLRKAVS |
| 5794 | sp|Q73BY1|CLPB\_BACC1 | MDLNQMTTKTQEAIMSAQSLAVSHHHQEVDTVHLLFTLLEEQDGLAVRIFQKMNVDIEALKQGAEGLIKKKPSVTGSGAEAGKLYITGALQQLLVRAGKEAEKLQDDYISVEHVLLAFTEEKGDINQLFTRFHITKDNLLQSLMTVRGNQRVTSQNPEATYEALEKYGRDLVAEVRAGKIDPVIGRDSEIRRVIRILSRKTKNNPVLIGEPGVGKTAIVEGLAQRIVKKDVPEGLKDRTIFALDMSALVAGAKFRGEFEERLQAVLNEIKKSEGRILLFIDELHTIVGAGKTEGAMDAGNMLKPMLARGELHCIGATTLDEYRKYIEKDPALERRFQQVLAEEPTVEDTISILRGLKERFEIYHGVNIHDRAIVAASVLSDRYISDRFLPDKAIDLVDEACATIRTEIDSMPTELDEVTRRIMQLEIEEAALGKEKDFGSQERLKTLQRELSDLKEVASGMRAKWEKEKEDIHKVRDLREHLERLRRELEEAEGNYDLNKAAELRHGKIPAIEKELKEAEEMGAHNKQENRLLREEVSEEEIADIVSRWTGIPVAKLVEGEREKLLRLEQILSERVIGQEEAVSLVSDAVLRARAGIKDPNRPIGSFIFLGPTGVGKTELAKTLAQSLFDSEEQMIRIDMSEYMEKHAVSRLIGAPPGYVGYEEGGQLTEAVRRKPYSVILLDEIEKAHPEVFNILLQMLDDGRITDSQGRTVDFKNTVIIMTSNIGSAHLLDGLEDDGSIKEESRELVMGQLRGHFRPEFLNRVDEIILFKPLTTNEIKGIVDKIVKELQGRLADRHITVELTDAAKEFVVEAGFDPMYGARPLKRYVQRQVETKLARELIASTITDNSHVVVDVENNELVVHVK |
| 5795 | sp|P0A6H1|CLPX\_ECOLI | MTDKRKDGSGKLLYCSFCGKSQHEVRKLIAGPSVYICDECVDLCNDIIREEIKEVAPHRERSALPTPHEIRNHLDDYVIGQEQAKKVLAVAVYNHYKRLRNGDTSNGVELGKSNILLIGPTGSGKTLLAETLARLLDVPFTMADATTLTEAGYVGEDVENIIQKLLQKCDYDVQKAQRGIVYIDEIDKISRKSDNPSITRDVSGEGVQQALLKLIEGTVAAVPPQGGRKHPQQEFLQVDTSKILFICGGAFAGLDKVISHRVETGSGIGFGATVKAKSDKASEGELLAQVEPEDLIKFGLIPEFIGRLPVVATLNELSEEALIQILKEPKNALTKQYQALFNLEGVDLEFRDEALDAIAKKAMARKTGARGLRSIVEAALLDTMYDLPSMEDVEKVVIDESVIDGQSKPLLIYGKPEAQQASGE |
| 5796 | sp|Q9Z3S6|CSPA\_RHIME | MNSGTVKWFNSTKGFGFIQPDDGATDVFVHASAVERAGMRSLVEGQKVTYDIVRDTKSGKSSADNLRAA |
| 5797 | sp|Q2YUH3|CSHA\_STAAB | MQNFKELGISDNTVQSLESMGFKEPTPIQKDSIPYALQGIDILGQAQTGTGKTGAFGIPLIEKVVWKQGVQSLILAPTRELAMQVAEQLREFSRGQGVQVVTVFGGMPIERQIKALKKGPQIVVGTPGRVIDHLNRRTLKTDGIHTLILDEADEMMNMGFIDDMRFIMDKIPAVQRQTMLFSATMPKAIQALVQQFMKSPKIIKTMNNEMSDPQIEEFYTIVKELEKFDTFTNFLDVHQPELAIVFGRTKRRVDELTSALISKGYKAEGLHGDITQAKRLEVLKKFKNDQINILVATDVAARGLDISGVSHVYNFDIPQDTESYTHRIGRTGRAGKEGIAVTFVNPIEMDYIRQIEDANGRKMSALRPPHRKEVLQAREDDIKEKVENWMSKESESRLKRISTELLNEYNDVDLVAALLQELVEANDEVEVQLTFEKPLSRKGRNGKPSGSRNRNSKRGNPKFDSKSKRSKGYSSKKKSTKKFDRKEKSSGGSRPMKGRTFADHQK |
| 5798 | sp|Q2FF45|CSHA\_STAA3 | MQNFKELGISDNTVQSLESMGFKEPTPIQKDSIPYALQGIDILGQAQTGTGKTGAFGIPLIEKVVGKQGVQSLILAPTRELAMQVAEQLREFSRGQGVQVVTVFGGMPIERQIKALKKGPQIVVGTPGRVIDHLNRRTLKTDGIHTLILDEADEMMNMGFIDDMRFIMDKIPAVQRQTMLFSATMPKAIQALVQQFMKSPKIIKTMNNEMSDPQIEEFYTIVKELEKFDTFTNFLDVHQPELAIVFGRTKRRVDELTSALISKGYKAEGLHGDITQAKRLEVLKKFKNDQINILVATDVAARGLDISGVSHVYNFDIPQDTESYTHRIGRTGRAGKEGIAVTFVNPIEMDYIRQIEDANGRKMSALRPPHRKEVLQAREDDIKEKVENWMSKESESRLKRISTELLNEYNDVDLVAALLQELVEANDEVEVQLTFEKPLSRKGRNGKPSGSRNRNSKRGNPKFDSKSKRSKGYSSKKKSTKKFDRKEKSSGGSRPMKGRTFADHQK |
| 5799 | sp|Q2YSD9|CTSR\_STAAB | MHNMSDIIEQYIKRLFEESNEDVVEIQRANIAQRFDCVPSQLNYVIKTRFTNEHGYEIESKRGGGGYIRITKIENKDATGYINHLLQLIGPSISQQQAYYIIDGLLDKMLINEREAKMIHAVIDRETLSMDMVSRDIIRANILKRLLPVINYY |
| 5800 | sp|P37568|CTSR\_BACSU | MGHNISDIIEQYLKRVLDQNGKEILEIKRSEIADKFQCVPSQINYVINTRFTSERGYIVESKRGGGGYIRIIKIKMNNEVVLINNIISQINTHLSQAASDDIILRLLEDKVISEREAKMMVSVMDRSVLHIDLPERDELRARMMKAMLTSLKLK |
| 5801 | sp|B0UR84|DNAK\_METS4 | MGKVIGIDLGTTNSCVAVMEGTQPKVIENAEGARTTPSIVAFTDEGERLVGQPAKRQAVTNPSRTFFAIKRLIGRTYDDPMTQKDKGLVPYHIVRAGNGDAWVEADGKQFSPSQISAFTLQKMKETAESYLGQPVTQAVITVPAYFNDAQRQATKDAGKIAGLEVLRIINEPTAAALAYGLDKKKSGVIAVYDLGGGTFDVSILEIGDGVFEVKSTNGDTFLGGEDFDNRIVEYLAAEFKREQGIDLTRDKLALQRLKEAAEKAKIELSSATQTEINLPYITADASGPKHLALKLSRAKFESLVDDLIQRTIEPCRKALKDAGVAASEIDEVVLVGGMTRMPKIQDVVKTFFGKEPHKGVNPDEVVAIGAAVQAGVLQGDVKDVLLLDVTPLSLGIETLGGVFTRLIDRNTTIPTKKSQVFSTAEDNQNAVTIRVFQGEREMAADNKLLGQFDLVGIPPAPRGVPQIEVTFDIDANGIVNVTAKDKATGKEHQIRIQASGGLSDTEIQRMVQEAEANAAEDKKRRELVEVKNQGESLVHATEKSVKEYGDKVSESDRAGISTAIDALRQALAGEDVETIKARTTDLMQASMKLGEAMYAAQAGGGEAASAGAEDPQAKKDDVIDADFQEVDDKDHKKRA |
| 5802 | sp|Q8DWH2|DNAJ\_STRMU | MNNQEYYDRLGVSKDASQDEIKKAYRRMSKKYHPDINKEPGAEEKYKEIQEAYDTLGDEQKRAAYDQYGPAGANGGFGDGSGFSGFDSSGFGGFEDIFSSFFGGGASRNPNAPRQGDDLQYRVNLQFEEAVFGTEKEVHYNREASCHTCNGSGAKPGTSPVTCSKCHGSGVINMDTQTPLGMMRRQVTCDVCHGTGQEIKEPCPTCHGTGHEKQSHKVSVKIPAGVETGQQIRLAGQGEAGFNGGPYGDLFVIINVLKSDKFERDGSTIYYSMDINFVQAALGDTVEVPTVHGNVELAIPAGTQTGKTFRLKGKGAPRLRGNGQGDQHVTVNVVTPTKLNDAQKEALQDFAKASGINPVHPKKKGFFNKVKDAFDEM |
| 5803 | sp|A9MR77|DNAK\_SALAR | MGKIIGIDLGTTNSCVAIMDGMQARVLENAEGDRTTPSIIAYTQDGETLVGQPAKRQAVTNPQNTLFAIKRLIGRRFQDEEVQRDVSIMPYKIIEADNGDAWLDVKGQKMAPPQISAEVLKKMKKTAEDYLGEPVTEAVITVPAYFNDAQRQATKDAGRIAGLEVKRIINEPTAAALAYGLDKEVGNRTIAVYDLGGGTFDISIIEIDEVDGEKTFEVLATNGDTHLGGEDFDTRLINYLVDEFKKDQGIDLRNDPLAMQRLKEAAEKAKIELSSAQQTDVNLPYITADATGPKHMNIKVTRAKLESLVEDLVNRSIEPLKVALQDAGLSVSDINDVILVGGQTRMPMVQKKVAEFFGKEPRKDVNPDEAVAIGAAVQGGVLTGDVKDVLLLDVTPLSLGIETMGGVMTPLISKNTTIPTKHSQVFSTAEDNQSAVTIHVLQGERKRASDNKSLGQFNLDGINPAPRGMPQIEVTFDIDADGILHVSAKDKNSGKEQKITIKASSGLNEEEIQKMVRDAEANAESDRKFEELVQTRNQGDHLLHSTRKQVEEAGDKLPADDKTAIESALSALETALKGEDKAAIEAKMQELAQVSQKLMEIAQQQHAQQQAGSADASANNAKDDDVVDAEFEEVKDKK |
| 5804 | sp|A0L4Z2|DNAK\_MAGMM | MGKVVGIDLGTTNSCVSIMEGGEPKVIENSEGVRTTPSMVAFTNQGERLVGQAAKRQAVTNPTNTLYAIKRLIGRRFSDPLTAKDQGLVPYKIVKADNGDAWVEADGKKMSPSECSAMILQKMKQTAEDYLGESVSEAVITVPAYFNDAQRQATKDAGRIAGLEVLRIINEPTAAALAYGLDKKDGQTIAVFDLGGGTFDISILEIGDGVFEVKSTNGDTFLGGEDFDMAIIDYLADQFKKENSIDLRKDSMALQRLKEAAEKAKIELSSSNQTDINLPFITADASGPKHLNLSLTRAKLESLVDELVQRTLAPCRTALKDAGMTAADIDEVILVGGMTRMPKVQAVVGQFFGKEPHKGVNPDEVVAIGAAIQGGVLKGEVQDVLLLDVTPLSLGIETLGGVFTKLIEKNTTVPTRKSQVFSTAADNQSAVTIRVAQGEREMFSDNKTLGQFDLVGIAPAPRGMPQIEVTFDIDANGMVHVSAKDKGTGKEQSIHIEASGGLTSEEIDRMVHEAESHAEEDAKKRALIEARNNADSLVYSSEKSLKEHSDKLDDALKNQITAAIEDLKAVMPKEDPEAISSKTQALMELSMKMGEQIYKENPEAAGMDPEAAAHAAGMHGGAATGGGDGANKHGKGAEDVVEAEFEEVNDDKK |
| 5805 | sp|Q8YE76|DNAK\_BRUME | MAKVIGIDMGTTNSCVAVMDGKNAKVIENAEGARTTPSIIAFTDGDERLAGQPAKRQAVTNPEGTLFAVKRLIGRRYDDPMVTKDKDLVPYKIVKGDNGDAWVEVHGKKYSPSQISAMILQKMKETAESYLGETVTQAVITVPAYFNDAQRQATKDAGKIAGLEVLRIINEPTAAALAYGLDKSEGKTIAVYDLGGGTFDVSVLEIGDGVFEVKSTNGDTFLGGEDFDIRLVEYLVAEFKKESGIDLKNDKLALQRLKEAAEKAKIELSSSQQTEINLPFITADQTGPKHLAIKLSRAKFESLVDDLVQRTVEPCKAALKDAGLKAGEIDEVVLVGGMTRMPKIQEVVKAFFGKEPHKGVNPDEVVAMGAAIQGGVLQGDVKDVLLLDVTPLSLGIETLGGVFTRLIERNTTIPTKKSQTFSTAEDNQSAVTIRVFQGEREMAADNKLLGQFDLVGIPPAPRGVPQIEVTFDIDANGIVNVSAKDKGTGKEHQIRIQASGGLSDADIEKMVKDAEANAEADKKRRESVEAKNQAESLVHSTEKSLAEYGDKVSADDKKAIEDAIAALKTSLEGEDAEDIKAKTQALAEVSMKLGQAMYEAAQAAEGAGAEGGEQASSSKDDVVDADYEEIDDNKKSS |
| 5806 | sp|A6VNB1|DNAK\_ACTSZ | MGKIIGIDLGTTNSCVAVMDGDKPRVIENAEGDRTTPSIIAYTNDNETLVGQPAKRQAVTNPKNTLFAIKRLIGRRFEDNEVQRDVDIMPFKIIRADNGDAWVDVKGDKLAPPQVSAEVLKKMKKTAEDFLGETVTEAVITVPAYFNDAQRQATKDAGRIAGLDVKRIINEPTAAALAYGLDKGKGNQTIAVYDLGGGTFDLSIIEIDEVGGEKTFEVLATNGDTHLGGEDFDNRVINYLVDEFKKEQGVDLRNDPLAMQRLKEAGEKAKIELSSAQQTDVNLPYITADATGPKHLNIKLTRAKLEALVEDLVARSMEPVKVALKDAGLSVSEIDDVILVGGQTRMPLVQQKVAEFFGKEPRKDVNPDEAVAVGAAVQGGVLSGNVTDVLLLDVTPLSLGIETMGGVMTTLIEKNTTIPTKKSQVFSTAEDNQSAVTIHVLQGERKQASANKSLGQFNLEGINPAPRGMPQIEVTFDIDADGIIHVSAKDKGTGKEQQITIKASSGLSDEEIQQMVRDAEANADADRKFEELVQARNQADALVHATRKQLTEAGDKLSADDKAPIEKAVSELEDAVKGDDKDAIEAKSQALIQVSEKLMQAAQQQAQANTQGQQSQGGNDDGVVDAEFEEVKDNK |
| 5807 | sp|Q5QXL2|DNAJ\_IDILO | MATQDFYQVLGVSKDANERDIKKAYKRMAMKYHPDRTEGDKDMEIKFKEIKQAYEVLSDPQKRQMYDQYGHEAFEQARQGGAGHGAGGFGGGGADFADIFGDVFGDIFGGGRRQQARAQRGADLRYNLDMSLEEAVRGKTVELEIPTLVECRDCNGSGAKKGSKPQTCGHCHGSGQIQMRQGFFAVQQTCPQCRGTGTIIKDPCRTCHGHGRKEETKTLSVKIPAGVDTGDRIRLANEGEAGEHGAPAGDLYVQVHVREHPIFARDGNNLFCEVPVSFTKAALGGDIEVPTLEGKVKLKVPKETQTGKHFRLRGKGVKSVRTGEVGDLICKVMIETPVNLSSKQRDMLEELEDSMGTGDEAAKFRPKEKGFFDGVKQFFDDLRS |
| 5808 | sp|A3QGW2|DNAK\_SHELP | MGKIIGIDLGTTNSCVAVLDGDKARVIENAEGDRTTPSIIAYTGEEVLVGQPAKRQAVTNPKNTFFAIKRLIGRRFKDDEVQRDVDIMPFKIIAADNGDAWVEAHDKKMAPPQVSAEILKKMKKTAEDYLGEPVTEAVITVPAYFNDSQRQATKDAGRIAGLEVKRIINEPTAAALAYGIDKKQGDNIVAVYDLGGGTFDISIIEIDSVDGEQTFEVLATNGDTHLGGEDFDNRLINYLADEFKKEQSLDLRNDPLAMQRLKEAAEKAKIELSSTTQTEVNLPYITADATGPKHLVVKITRAKLESLVEDLIQRSLEPLKVALADADLSVSDINEVILVGGQTRMPKVRAEVSAFFGKELRQDVNPDEAVAIGAAVQAGVLAGDVKDVLLLDVTPLSLGIETMGSVMTKLIEKNTTIPTKASQTFSTADDNQSAVTIHVLQGERKQSSANKSLGQFNLEGIEPAPRGMPQIEVAFDIDADGILHVSATDKKTGKAQNITIKASSGLSDEEVEAMVRDAEAHADEDAKFEELVSARNQADGMVHATKKQIEEAGDALPSEDKEKIEAAMADVDTATKGNDKEAIEKATQALMEASAKLMEIAQAKAQAGQGEQAQQSNEAPADDVVDAEFEEVKDDKK |
| 5809 | sp|Q5N1J4|DNAK2\_SYNP6 | MAKVVGIDLGTTNSCVAVMEGGKPTVIANAEGFRTTPSVVAFAKNQDRLVGQIAKRQAVMNPENTFYSVKRFIGRRPDEVTNELTEVAYKVDTSGNAVKLDSSNAGKQFAPEEISAQVLRKLAEDASKYLGETVTQAVIPVPAYFNDSQRQATKDAGKIAGLEVLRIINEPTAAALAYGLDKKSNERILVFDLGGGTFDVSVLEVGDGVFEVLATSGDTHLGGDDFDKKIVDFLAGEFQKNEGIDLRKDKQALQRLTEAAEKAKIELSSATQTEINLPFITATQDGPKHLDLTLTRAKFEELASDLIDRCRIPVEQAIKDAKLALSEIDEIVLVGGSTRIPAVQAIVKQMTGKEPNQSVNPDEVVAIGAAIQGGVLAGEVKDILLLDVTPLSLGVETLGGVMTKLIPRNTTIPTKKSETFSTAADGQTNVEIHVLQGEREMASDNKSLGTFRLDGIPPAPRGVPQIEVIFVIDANGILNVTAKDKGSGKEQSISITGASTLSDNEVDRMVKDAEANAAADKERRERIDLKNQADTLVYQSEKQLSELGDKISADEKSKVEGFIQELKDALAAEDYDKIRSIIEQLQQALYAAGSSVYQQASAEASANAQAGPSSSSSSSSGDDDVIDAEFSESK |
| 5810 | sp|B5F6Y8|DNAK\_SALA4 | MGKIIGIDLGTTNSCVAIMDGTQARVLENAEGDRTTPSIIAYTQDGETLVGQPAKRQAVTNPQNTLFAIKRLIGRRFQDEEVQRDVSIMPYKIIGADNGDAWLDVKGQKMAPPQISAEVLKKMKKTAEDYLGEPVTEAVITVPAYFNDAQRQATKDAGRIAGLEVKRIINEPTAAALAYGLDKEVGNRTIAVYDLGGGTFDISIIEIDEVDGEKTFEVLATNGDTHLGGEDFDTRLINYLVDEFKKDQGIDLRNDPLAMQRLKEAAEKAKIELSSAQQTDVNLPYITADATGPKHMNIKVTRAKLESLVEDLVNRSIEPLKVALQDAGLSVSDINDVILVGGQTRMPMVQKKVAEFFGKEPRKDVNPDEAVAIGAAVQGGVLTGDVKDVLLLDVTPLSLGIETMGGVMTPLITKNTTIPTKHSQVFSTAEDNQSAVTIHVLQGERKRASDNKSLGQFNLDGINPAPRGMPQIEVTFDIDADGILHVSAKDKNSGKEQKITIKASSGLNEEEIQKMVRDAEANAESDRKFEELVQTRNQGDHLLHSTRKQVEEAGDKLPADDKTAIESALSALETALKGEDKAAIEAKMQELAQVSQKLMEIAQQQHAQQQAGSADASANNAKDDDVVDAEFEEVKDKK |
| 5811 | sp|P19993|DNAK\_MYCLE | MARAVGIDLGTTNSVVSVLEGGDPVVVANSEGSRTTPSTVAFARNGEVLVGQPAKNQAVTNVDRTIRSVKRHMGSDWSIEIDGKKYTAQEISARVLMKLKRDAEAYLGEDITDAVITTPAYFNDAQRQATKEAGQIAGLNVLRIVNEPTAAALAYGLDKGEREQTILVFDLGGGTFDVSLLEIGEGVVEVRATSGDNHLGGDDWDDRIVNWLVDKFKGTSGIDLTKDKMAMQRLREAAEKAKIELSSSQSTSVNLPYITVDSDKNPLFLDEQLIRAEFQRITQDLLDRTRQPFQSVVKDAGISVSEIDHVVLVGGSTRMPAVTDLVKELTGGKEPNKGVNPDEVVAVGAALQAGVLKGEVKDVLLLDVTPLSLGIETKGGVMTKLIERNTTIPTKRSETFTTADDNQPSVQIQVYQGEREIASHNKLLGSFELTGIPPAPRGVPQIEVTFDIDANGIVHVTAKDKGTGKENTIKIQEGSGLSKEEIDRMVKDAEAHAEEDRKRREEADVRNQAETLVYQTEKFVKEQRETENGSRVPEDTLNKVEAAVAEAKTALGGTDISAIKSAMEKLGQDSQALGQAIYEATQAASKVGGEASAPGGSNSTDDVVDAEVVDDERESK |
| 5812 | sp|B9E041|DNAK\_CLOK1 | MSKVIGIDLGTTNSCVAVMEGGDPVVIANSEGARTTPSVVSFQANGERLVGQVAKRQSITNPDKTIISIKREMGTNHKVNIDGKQYTPQEISAMVLQKIKADAEAYLGETVTQAVITVPAYFNDSQRQATKDAGKIAGLEVLRIINEPTAAALAYGMDKMDTNQKIFVYDLGGGTFDVSILELGDGVFEVKATNGDTHLGGDDFDKKIIDYIADTFKADNGIDLKNDKMALQRLKEAAEKAKIELSSSTQTNINLPFITADATGPKHIDMSLTRAKFNELTQDLVDRTIEPMKKALNDAGLTINDINKVILVGGSTRIPAVQEAVKSFTGKEPSKGVNPDECVAMGAAIQAGVLTGDVKDVLLLDVTPLTLGIETLGGVATPLIERNTTIPTKKSQVFSTAADGQTSVEIHVVQGERQMAADNKTLGRFTLSGIAPAPRGVPQIEVTFDIDANGIVNVSAKDKGTGKEANITITASTNLSDDEIDKAVKEAEKFEEQDKKRKESIEIKNNADQVVYQTEKTLKDLGDKVSSEDKKAIEEKVEAVKKVKDGDDLEAIKKATEDLTQTFYGISSKIYSQNAEPGADGGANSGANPGGTTGNTDTKDDNVVDAEYKVDDDK |
| 5813 | sp|Q6MT07|DNAJ\_MYCMS | MKKKDYYEVLGVSKTASEQEIRQAYRKLAKQYHPDLNKSPDAHDKMVEINEAADVLLDKDKRKQYDQFGHNAFDGSSGFSSNFADFEDLFSNMGSSGFSSFTNIFSDFFGSNKSDYQRSTKGQSVSVDIYLTFKELLFGVDKIIELDLLTNCSVCFGSGAESNSDISICNNCHGTGEVLIQKNMGFFQFQQSAKCNVCNGAGKIIKNKCKNCKGKGKYLERKKIEVNIPKGIRPNQQIKLSQKGHASINNGVNGDLIIDIYLKESKVFEIVNNNDILMTYNISYLDAILGNEIIIKTLDGDIKYKLPKSINSNEFIIINNKGLYKSINKDKRGDLIIKVNIVVPKNLNKKEKELIEQIYEQTSFNPENNIDQ |
| 5814 | sp|A5FPU4|DNAK\_DEHMB | MGKVVGIDLGTTNSEVAVMQGGEPVVIPSAEGSTLIPSVVAINKNGERIVGRQAKNQAILNPENTVYSIKRFMGRKWGEPAGRELPVEADAKRKPYKVIQGNNNEVRVVMGDKDFSPPEVSAMILQKLKSDAEAYLGEKVTEAVITVPAYFNDAQRQATKDAGAIAGLKVLRIINEPTAAALAYGLDKKKDETIAVYDLGGGTFDISILELGEGTFQVKSTAGDTHLGGDDFDQKIIDWLIAEYKKDQGIDLSKDKTALQRLKEAAEKAKIELSTVQQTEINLPFITADASGPKHLNIILTRSKLEQMVMDLVEKSLEPCRQALKDSGKTSAEINEVILVGGQTRMPLVQQKVKDFFGKEPNKGVNPDEVVAIGAAIQAGVLKGEVSDVLLLDVIPLTLGIETLGGVSTALITRNTTIPTSKSQVFSTAADNQPSVEIHVLQGERPMAADNRTLGRFMLDGILPAPRGVPQIEVTFDIDANGMLSVKAKDKGTGREQKITITASSGLSKEEVEKMTREAEAHAAEDTKRKEEIEARNVADNLAYNAEKTLRDNKDKIPAELNTELESKIAAVRTALQGNDVEAIKKTTQELSTALQSVGSAVYGKQQEGAPAQEEPSAEGKKADDEGTVEGEFREV |
| 5815 | sp|B0BWH0|DNAJ\_RICRO | MSQNYYQILGVSKTASQADLKKAYLKLAKQYHPDTTDAKDAEKKFKAINAAYDVLKDEQKRAAYDRLGHDAFQNQQSRGGGGNHGGFHPDINDIFGDFFSDFMGGSRRSSRPTSAKVRGSDLKYNLTINLEEAFHGIEKNINFSSAVKCDTCHGSGSEKGETVTTCDACSGVGATRMQQGFFTIEQACHKCQGNGHIIKNPCKKCHGMGRYHKQRNLSVNIPAGVENGTRIRHTGEGEAGIRGGNSGDLYVDITIKPHDIYKVDGANLHCKLPISFVNAALGGEIEVPVIEGGKVSLTIPAGTQNGDQLRLRSKGMSKMRSTIRGDMLTHIHVEVPKNLSKRQRELLEEFKKESINEKENDGSFFNKMKSLWS |
| 5816 | sp|Q45551|DNAK\_GEOSE | MSKIIGIDLGTTNSCVAVLEGGEPKVIPNPEGNRTTPSVVAFKNGERLVGEVAKRQAITNPNTVISIKRHMGTDYKVEIEGKKYTPQEISAIILQYLKSYAEDYLGEPVTRAVITVPAYFNDAQRQATKDAGRIAGLEVERIINEPTAAALAYGLDKEEDQTILVYDLGGGTFDVSILELGDGVFEVKATAGDNHLGGDDFDQVIIDYLVDQFKQEHGIDLSKDKMALQRLKDAAEKAKKELSGVTQTQISLPFISANENGPLHLETTLTRAKFEELFAHLVERTMGPVRQALQDAGLTPEDIDKIILVGGSTRIPAVQEAIKRELGKEPHKGVNPDEVVAIGAAIQGGVIAGEVKDVVLLDVTPLSLGIETMGGVFTKLIERNTTIPTSKSQIFTTAADNQTTVDIHVLQGERPMAADNKTLGRFQLTGYPPAPRGVPQIEVTFDIDANGIVHVRAKDLGTNKEQSITIKSSSGLSEEEIQRMIKEAEENAEADRKRKEAAELRNEADQLIFTTEKTLKEVEGKVDEAEVKKAREAKDALKAALEKNDLDEIRKKKEALQEAVQQLSIKLYEQAAKQAQNQQAGADGATKKDDNIVDAEFEEVKDDK |
| 5817 | sp|Q7VIE3|DNAK\_HELHP | MAKVIGIDLGTTNSAMAVYEGNEAKIIANKEGKNTTPSIVAFTDKGEILVGEPAKRQAVTNPKKTVYSIKRIMGLMFNEDKAKEAEKRLPYNIVDRNGACAVEIADKIYTPQEISAKILMKLKEDAQSYLGEDVTEAVITVPAYFNDSQRKATKEAGTIAGLNVLRIINEPTSAALAYGLDKKEAEKIMVYDLGGGTFDVTVLETGDNVVEVLATGGDAFLGGDDFDNRIIDWAAEEFKSDEGIDLKNDVMALQRLKDAAENAKKELSSAQETEINLPFITADASGPKHLVKKITRAKFESLIDDLIEDTIKKIEFVIKDAGLSQSDISEVVMVGGSTRIPKVQERVKAFISKDLNKSVNPDEVVAVGAAIQGGVLKGDVKDVLLLDVTPLSLGIETAGGISTKVVERGVTIPTKKTQIFSTYEDNQPAVSINVLQGERELARDNKSLGRFDLSGIPAAPRGVPQIEVTFDIDANGILTVSAKDKATGKSQEIKISGSSGLSDAEIEKMVKEAELHKEEDTKKKAIIELRNNADSLVYQTKKSLEEFKDKIESAEVEKIQSAVAALEETLKNENASKEELEEKIKNLTEVSHKLAEAAYAKEQGGTQQGTDTKKKDDDVIDAEVE |
| 5818 | sp|Q8YUA5|DNAJ\_NOSS1 | MARDYYEILGVARDADKEEIKQAYRRLARKYHPDVNKEPGAEERFKEINRAYEVLSEPETRARYDRFGPEGVSGAGVGFQDMSDMGGFADIFESIFSGFAGGGMGGPTQQRRRGGPARGDDLRLDLKLDFREAVFGGEKEIRISHLETCETCSGSGAKPGTRPRTCSTCSGSGQVRRVTRTPFGSFTQVSTCPTCNGTGMVIEDKCDTCDGKGTNQVTKKLKITIPAGVDNGTRLRIKDEGDAGQRGGPPGDLYVYLFVNEDEEFQRDGINVISEIKVSYLQAILGCRLEVNTVDGPVELIIPAGTQPNTVMKLENRGVPRLGNPVSRGDHLLTVLIDIPTKVIPEERELLEKLAKIKGDRTGKGGLEGFLGNLFK |
| 5819 | sp|P0A1G8|DNAJ\_SALTI | MAKRDYYEILGVSKTAEEREIKKAYKRLAMKYHPDRNQGDKEAEAKFKEIKEAYEVLTDAQKRAAYDQYGHAAFEQGGMGGGFGGGFNGGADFSDIFGDVFGDIFGGGRGRQRAARGADLRYNMDLTLEEAVRGVTKEIRIPTLEECDVCHGSGAKAGTQPQTCPTCHGSGQVQMRQGFFAVQQTCPHCQGRGTLIKDPCHKCHGHGRVEKSKTLSVKIPAGVDTGDRIRLAGEGEAGEHGAPAGDLYVQVQVKQHPIFEREGNNLYCEVPINFAMAALGGEIEVPTLDGRVMLKVPSETQTGKLFRMRGKGVKSVRGGAQGDLLCRVVVETPVGLSEKQKQLLKDLQESFGGPTGEKNSPRSKSFFDGVKKFFDDLTR |
| 5820 | sp|O52164|DNAJ2\_STRAL | MATDYYAVLGVRRDASQDEIKKAFRRLARELHPDVNPDPKTQERFKEINAAYEVLSDPQKKQVYDLGGDPLSQNGGGGAGGFGQGGFGNFSDIMDAFFGTASQRGPRSRTRRGQDAMIRLDIELDEAAFGTTKDIQVDTAVVCNTCNGEGAAPGTSAQTCDMCRGRGEVSQVTRSFLGQVMTSRPCPQCQGFATVVPTPCPECAGDGRVPSRRTLTVKIPAGVDNGTRIQLAGEGEVGPGGGPGGDLYVEIHELPHSVFQRRGDDLHCTVTIPMTGPRPSAPRCLETLDGMEEIDIRPGTQSGQSVPLHGRGITHLRGGGGRDLIVHVEVTTPGKLDAEQEHLLRELAKLRGEERPTGQFQPGQQGLFSRLKDAFNGRS |
| 5821 | sp|C1DD88|DNAK\_LARHH | MGKIIGIDLGTTNSCVAVLENGQPKVIENSEGARTTPSVVAYMEDGEILVGAPAKRQAVTNAKNTIFASKRLIGRRFEEKEVQKDIDLMPFSIVKADNGDAWIDVRGKKLAPPQISAEVLRKMKKTAEDYLGEEVTEAVITVPAYFNDSQRQATKDAGRIAGLEVKRIINEPTAAALAFGMDKSEKGDKKIAVYDLGGGTFDISIIEIADVDGEKQFEVLATNGDTFLGGEDFDQRLIDYIVTEFKKEQGVDLKNDVMALQRLKEAAEKAKIELSSGQQTEINLPYITMDATGPKHLTMKITRAKFESLVDELIERSIEPCRVAIKDAGLKVSDIDDVILVGGQSRMPKVQEAVKTFFGKEPRRDVNPDEAVAVGAAIQGSVLSGERKDLLLLDVTPLSLGIETMGGIMTKLIQKNTTIPTKATQVFSTADDNQTAVTIHVLQGEREKAAANKSLGQFNLSDIPPAPRGLPQIEVTFDIDANGILHVSAKDKATGKQANITIQASSGLSEAEIEKMVRDAELNAEEDKKLAELVQARNQAEGLIHSVKKSLADYGDKIGSDEKARIEAAIKDAEEAVKGEDKAAIEAKSEELAKASQKLGEIMYAQAQAESQAAGEGQPDAGKKDDGNVVDAEFEEVKKDKQ |
| 5822 | sp|A8IPT0|DNAJ\_AZOC5 | MAKRDYYEVLGCDRGADETVLKASFRKLAMKWHPDKNPGDPEAEIRFKEISEAYEVLKDPQKRGAYDRYGHAAFENGGGPGGAGFNADFASTFADIFDDLFGGSMGRSGARSAGGRARGADLRYNMDITLEEAFSGKTAQISIPTSISCEVCSGSGAKAGTQPKTCRTCNGAGKIRHAQGFFTLERTCPSCQGRGTVIEDPCPNCGGAGRVTRERTLQVQIPAGVEDGTRIRLGGEGEAGVRGGPPGDLYIFLSIEPHTFFQREGADLYCRAPISMVTAALGGTVEVPTIGGEKTKVKIPEGTQSGKRLRLPGAGMPVLRSRSFGDMYVQVVVETPQNLTKRQKELLAEFEGLSSTDTHPESNGFFAKMKDFFQGASSDND |
| 5823 | sp|A5GDC8|DNAK\_GEOUR | MSKVIGIDLGTTNSCVAIMEGGEPIVIANAEGSRTTPSMVAITDSGERLVGQQAKRQAVTNPENTLFAIKRLIGRKFDSEAVKKDIAISPFKIVKADNGDAWVEVRGQKYSAPEISAMVLQKMKKTAEDYLGETVTDAVITVPAYFDDSQRQATKDAGKIAGLNVLRIINEPTAAALAYGLDKKKDEKIAVFDLGGGTFDISILELGEGVFEVKSTNGDTFLGGEDFDQDIIDWIAAEFKKDQGIDLRGDKMALQRLKEAAEKAKCELSTSLETDINLPFITADATGPKHLNLKLTRAKLEAICANLIAKLEGPCRTALKDAGLSPNDIDEVILVGGMTRMPIVQKKVQDIFGKVPNRSVNPDEVVAIGAAIQGGVLRGDVKDVLLLDVTPLSLGIETLGGVMTRLIEKNATIPCRKSQIFSTAADNQPAVSIHVLQGEREMSTDNKTLGNFELSGIPPAPRGVPQIEVTFDIDANGIVHVSAKDLGTGKEQSIRITASSGLSKEEIDKMVKDAEAHSSEDKKKRELIEARNQADSLAYSTEKSLKEFGDKIDAAEKQKIEDGLAALKKAMEGSDADAIKKASDELMQASHKLAEAVYAKAQPGEEQAGGAPHEGEAKDEKVVDADFEEVKEDKK |
| 5824 | sp|O85213|DNAJ\_CAMJE | MEISYYEILEITQNADKETIKKAYRKMALKYHPDRNQGDKEAEDKFKLVNEAYEVLSNDEKRAIYDRYGKDALKGGGFGSSSSGFGGFEDLGDIFSSFFGEGFGSSRRRKSSNDEKIPSDFIVNLKLSFKEAVFGCKKNIDFTYKCSCKTCNGTGAKDGKLQTCPKCQGRGQVGVSQGFITFAQTCPDCQGIGEKASEKCSDCKGLGYNESKDSVELNIPEGVDTGMKLRVNAKGNILKNGTRGDMYVKIIAAEDDTFIRDDDDIYIEFPVFFTQAILGESIKVPTIRGEATLNLPKGAKDGQRFVLEKEGVKDVHSSRMGNQIVQISIKFPTSLNDEQKELLEKLSESFGIKDGMHQEQKGLFEKITNWFKS |
| 5825 | sp|Q10L91|DIS1\_ORYSJ | MASVTYIDDSGSEVIDPPKTEVLDVTELAGDPVPHSPKPNVVVSSSVRELLECPVCLSAMYPPIHQCSNGHTLCSGCKPRVHNRCPTCRHELGNIRCLALEKVAASLELPCKYQNFGCVGIYPYYCKLKHESQCQYRPYSCPYAGSECTVAGDIPYLVNHLKDDHKVDMHNGCTFNHRYVKSNPHEVENATWMLTVFSCFGQYFCLHFEAFQLGMAPVYIAFLRFMGDDLEAKNYSYSLEVGGTGRKMIWQGVPRSIRDSHRKVRDSYDGLIIQRNMALFFSGGERKELKLRVTGRIWKEQ |
| 5826 | sp|Q9RUG2|DNAJ\_DEIRA | MDYYELLGVSRTASADEIKSAYRKLALKLHPDRNKEEGAAEKFAQVSEAYSVLSDTEKRAHYDRFGSAPGAGMPGGDXFGGMGGMGGVGFDPMDIFEQLFGGAAGMGGRGRRGPARGDDLETEVRITLEQARAGEEVEVTVDRLTECEHCHGTRTEPGGKPPVTCSTCNGSGAVRGQARTIFGVVETQQVCPTCKGDGKMVVDPCTVCHGRGRTLKSEPVKVKLPKGIDEGYRIRVAGQGNEGPGGNGDLYVHIEMEPHPELHRQDENLIFPARIGFATAALGGRIQVPTLDGPQEVEVKPGTQHGELHRLRGQGMPRLQGAGTGDLIVDYEIVVPKHLNAEAKDALQAYARAVGDEVPEEHEGLFGKIGKLFGRD |
| 5827 | sp|A5EYE5|DNAJ\_DICNV | MADKDLYAILGVCRTANQDEIKKAYRKLSMKWHPDRNPNNKEEAEEKFKEINKAYEILSDSQKRASYDRFGFDAANQGAAGGGFSGGNFSDIFGDVFGDIFGNVRQTNGARQTRGHDLAYKIELSLEEAIHGVEKQIRIATQVRCGECHGSGMNAKSKKKTCPTCNGAGQVRMQQGFFSIAQPCPTCHGRGEIIENPCNKCQGTGRVKDTRVLTVNIPAGVDNGDRIRLSGEGEAGELGAPAGDLYIEIFVRAHPIFERQGNDLYCKMPISFTTACLGGDLEVPTLNGRVKLSIPEETQTGKTFRLKGKGVQSVRSNSVGDLYCTVTIETPINLSKAQKELLMNFEQALNEGGKTHTPQAKGFFDNIKQFFDNL |
| 5828 | sp|B2IMB5|DNAK\_STRPS | MSKIIGIDLGTTNSAVAVLEGTESKIIANPEGNRTTPSVVSFKNGEIIVGDAAKRQAVTNPDTVISIKSKMGTSEKVSANGKEYTPQEISAMILQYLKGYAEDYLGEKVTKAVITVPAYFNDAQRQATKDAGKIAGLEVERIVNEPTAAALAYGLDKTDKEEKILVFDLGGGTFDVSILELGDGVFDVLSTAGDNKLGGDDFDQKIIDHLVAEFKKENGIDLSTDKMAMQRLKDAAEKAKKDLSGVTSTQISLPFITAGEAGPLHLEMTLTRAKFDDLTRDLVERTKVPVRQALSDAGLSLSEIDEVILVGGSTRIPAVVEAVKAETGKEPNKSVNPDEVVAMGAAIQGGVITGDVKDVVLLDVTPLSLGIETMGGVFTKLIDRNTTIPTSKSQVFSTAADNQPAVDIHVLQGERPMAADNKTLGRFQLTDIPAAPRGIPQIEVTFDIDKNGIVSVKAKDLGTQKEQTIVIQSNSGLTDEEIDRMMKDAEANAEADKKRKEEVDLRNEVDQAIFATEKTIKETEGKGFDAERDAAQAALDDLKKAQENNNLDDMKAKLEALNEKAQGLAVKLYEQAAAAQQAQEGAEGAQATGNAGDDVVDGEFTEK |
| 5829 | sp|A5CX56|DNAK\_VESOH | MSKIIGIDLGTTNSCVAIMDGGSVKIIENSEGDRTTPSIIAYPKDSEEVLVGQAAKRQAVTNPENTLYAIKRLIGRRFEEDAVQKDIDLVPYKIVKADNGDAWVKVKNKKMAAPEISAKVIGKMKKTAEDYLGEEVTEAVITVPAYFNDSQRQATKDAGKIAGLNVKRIINEPTAAALAYGVDKVKGDKTVVVYDLGGGTFDVSIIEMEDIDGEKHFEVLSTNGDTFLGGEDFDQRMIGYLVDEFKKDQGVDLTNDPMALQRLKEAAEKAKIELSSSEQTEVNLPYVTADASGPKHLNIKITRAKLESLVEDLLKRTIEPCKTALKDADLSTGDIDEVILVGGQTRMPKVTKMVQNFFDKEPKKDVNPDEAVAMGAAIQAGVLGGDVKDVLLLDVTPLSLGIETMGGVMTKLIEKNTTIPTNASQIFSTAADNQSAVTVHVLQGEREISSANKSLGQFNLEGINSAPKGQPQIEVTLDIDSDGILNVSAKDKNTGKKQSITIKASSGLSDEEVEKMVKDAEAHADEDQKFQKLVTSKNMADALIHSTKQTLDELKDEISIDEKSVIEASITDLEKVIKSDNKEAIDTKVKTLSEKAQLLAEKAQAKAGVKNTPQEEKNSDDVVDADFEEVKDDK |
| 5830 | sp|B9DNK0|DNAK\_STACT | MGKIIGIDLGTTNSCVAVLEGDEPKVIQNPEGARTTPSVVAFKNGETQVGEVAKRQAITNPNTIQSIKREMGTDYKVDVDGKNYTPQEISAMILQNLKSTAESYLGDKVDKAVITVPAYFNDAERQATKDAGKIAGLEVERIINEPTAAALAYGLDKTEQDEKVLVFDLGGGTFDVSILELGDGVFEVLSTAGDNKLGGDDFDQVIIDYLVEEFKKENGIDLSQDKMALQRLKDAAEKAKKDLSGVSQTQISLPFISAGESGPLHLEITLTRSKFEELSDELVRRTMGPTRQALSDAGLSSNDIDEVILVGGSTRIPAVQEAVKKEVGKEPNKSVNPDEVVAMGAAIQGGVISGDVKDVVLLDVTPLSLGIEIMGGRMNTLIERNTTIPTSKSQVYSTAADNQPAVDIHVLQGERPMASDNKTLGRFSLTDIPPAPRGVPQIEVTFDIDKNGIVNVTAKDLGTNKEQNITIESSSALSDDEIDRMVKDAEQNAEEDKKRREESDLRNEADSLVFQVDKTLKDLGDNVSEDDKKQAEDKKEALKSALEGQDLEDIKTKKEELEKVVQELSMKVYQQAQQGDAAGSNQSDVEDAEYTEVKDDDDKKDNK |
| 5831 | sp|C5BQ33|DNAK\_TERTT | MGKIIGIDLGTTNSCVSVLEGDKAKVIENAEGDRTTPSIVAFTDDNEILVGQSAKRQAVTNPRNTLFAVKRLIGRKFTDDVVQKDIKMVPYSIVGADNGDAWVEVKGDKKAPPQISAEVLKKMKKTAEDYLGEKVTEAVITVPAYFNDSQRQATKDAGKIAGLEVKRIINEPTAAALAYGMDKAKGDRTIAVYDLGGGTFDISVIEIADVDGEHQFEVLSTNGDTFLGGEDFDLRLIEYLAEEFKKSNGIDLHNDPLALQRLKEAAEKAKIELSSSQQTEVNLPYITADATGPKHLVVKLTRAKLESLVEELVNRSLEPVKMAIKDADLSVSEIDDVILVGGQTRMPLVQQKVAEFFGKEPRKDVNPDEAVAMGAAIQGAVLSGDVKDVLLLDVTPLTLGIETMGGVATPLIEKNTTIPTKKSQVFSTAEDNQTAVTIHVVQGERKQAAQNKSLGRFDLADIPPAPRGMPQVEVTFDIDANGILNVSAKDKATGKEQSIVIKASSGLSDDEIENMVKDAEANAEADRKFEELVSARNTLEGLVHATKKTLEEAGDKATAEEKSAIEAAITEAEEALKSGDKDAIEAATKKVTDASGSLAQKLYAEQSAQQQGSAGATGGEQPKADKAADDGVVDAEFEEVKDDK |
| 5832 | sp|B9KBT4|DNAK\_THENN | MAEKKEFVVGIDLGTTNSVIAWMKPDGTVEVIPNAEGSRITPSVVAFTKSGEILVGEPAKRQMILNPERTIKSIKRKMGTDYKVRIDDKEYTPQEISAFILKKLKKDAEAYLGGEIKKAVITCPAYFNDAQRQATKEAGIIAGLEVLRIINEPTAAALAYGLDKAGKEQKVLVYDLGGGTFDVSILEIGDGVIEVIATAGNNHLGGDDFDQRLIDWMAEEFKKQHGIDLREDRQALQRLRDAAEKAKIELSTKMETDVSLPFIAVSPSGQPLHLEMRITRSLFESLTRDLVEMTRGPIEQALNDAKLSPQDIDEIILVGGMTRVPMVQRFIKEFFGKEPNKSVNPDEAVAIGAAIQAAILAGTEGAKGRDIVLVDVTPLTLGIEVKGGLFEPIIPRNTKIPVRKSKIFTTVEDGQTEVEIRVYQGERPIARENIFLGSFKLVGIPPAPRGVPQIEVTFDIDSDGIVHVSAKDLGSGKEQSMVVTGRHKLSEEDIKRMIEDAKRYEEQDKRLKEEIELKNRADDLAYSVEKTLREHGDKIPADLKSKLENMIKELRDAINRNDIPRVKMLFDDLQKESMKIGEYLYKSATGGEATNQ |
| 5833 | sp|Q4G2J4|DER21\_MAIZE | MAQAVEEWYRQMPIITRSYLTAAVVTTVGCTLEIISPYHLYLNPKLVVQHYEIWRLVTNFLYFRKMDLDFLFHMFFLARYCKLLEENSFRGRTADFFYMLLFGATVLTSIVLIGGMIPYISETFARILFLSNSLTFMMVYVWSKHNPFIHMSFLGLFTFTAAYLPWVLLGFSILVGSSTWVDLLGMIAGHVYYFLEDVYPRMTGRRPLKTPSFIKALFADDNVVVAQPPNAGIGAGARFGAMGLDPQAQ |
| 5834 | sp|Q9M0L0|DRE1A\_ARATH | MNSFSAFSEMFGSDYESSVSSGGDYIPTLASSCPKKPAGRKKFRETRHPIYRGVRRRNSGKWVCEVREPNKKTRIWLGTFQTAEMAARAHDVAALALRGRSACLNFADSAWRLRIPESTCAKDIQKAAAEAALAFQDEMCDATTDHGFDMEETLVEAIYTAEQSENAFYMHDEAMFEMPSLLANMAEGMLLPLPSVQWNHNHEVDGDDDDVSLWSY |
| 5835 | sp|Q8LFR2|DRE2C\_ARATH | MPSEIVDRKRKSRGTRDVAEILRQWREYNEQIEAESCIDGGGPKSIRKPPPKGSRKGCMKGKGGPENGICDYRGVRQRRWGKWVAEIREPDGGARLWLGTFSSSYEAALAYDEAAKAIYGQSARLNLPEITNRSSSTAATATVSGSVTAFSDESEVCAREDTNASSGFGQVKLEDCSDEYVLLDSSQCIKEELKGKEEVREEHNLAVGFGIGQDSKRETLDAWLMGNGNEQEPLEFGVDETFDINELLGILNDNNVSGQETMQYQVDRHPNFSYQTQFPNSNLLGSLNPMEIAQPGVDYGCPYVQPSDMENYGIDLDHRRFNDLDIQDLDFGGDKDVHGST |
| 5836 | sp|P68178|ESI3\_ELYEL | MGSATVLEVILAIILPPVGVFLRYKLGVEFWICLLLTILGYIPGIIYAVYVLVV |
| 5837 | sp|P31158|FLAV\_SYNP2 | MSKIGLFFGTQTGNTEELAQAIQAAFGGSDIVELFDVAEVDIEALRDFDQLIIGCPTWNVGELQSDWEALYDDLDDVDFSGKTIAYFGAGDQVGYADNFQDAMGVLEEKITSLGGKTVGQWPTAGYDHSESKAERDGKFVGLAIDEDNQPELTAERIQAWVAQLKPAFGL |
| 5838 | sp|P80879|G20U\_BACSU | MSEQLIQAVNKQVANWTVMYVKLHNYHWYVKGKDFFTLHEKFEELYNETATYIDDLAERLLALNGKPIATMKESLETASVKEAAGNETAEQMVQSVYDDFTVIAEELKNGMDLADEVGDETTGDMLLAIHQNIEKHNWMLKAYLG |
| 5839 | sp|P33892|GCN1\_YEAST | MTAILNWEDISPVLEKGTRESHVSKRVPFLQDISQLVRQETLEKPQLSEIAFVLLNTFTIYEDNRSKSLVTSILLDILNLEPCLLENFIRFISDVVISNPATKAVADYLNLLDWINSFLIFVSHNSNLFEEYIPKLLVAHSYATFGVETILDNQEEGKKSQDKQNQHRKRIRYCIFQTTVKAFLKCLKDNDDSISFMKISIKTVLESYSKLKITSVGVVMIMGALTQAALQLLSRQPALHSVLKENSAEKYCEYLGKEVFLGKNPPSSFCLEIGLKPFLKEFVSQELFIKFFIPNIEKAVLRSPEVGFSILSELYAGVSPEKVNLLNAFASSKLINQYFSSFKSSKEVVRSVSLQSMIILLRKISNTDTTLEDLTKLIDEIFKNIKSNLNADYKSLISKILIEIPLTHYEVSEKICKGLSPYIGKEGNEAALTLMLNAFFVHYFSLGKPIEDLDKIISAGFADKKPALKKCWFAAFLNNSNAASEEVILNFIDGCLEFVKDSIIHYQTHGHACILASIEFTNKILALDNTELNDRVMQLIETLPENSSIGDAILTAALSTELSIENRIHAVNLLQELFYKKPEFIGFSVIDAIERRMRVQELIPQQNTSFKYVTSVLLAITSELPDKEASIKVLINALVIAQWNIFNIKNGWAGLVLRARLDPAEVVKEHASVIMEKILEITGSCEWIDTIYGACGLQAAAYAAFIQPNEFTPILCKTIEADLTADDFSRLSEEDFEIFAGEEGVLVVDVLEESMNKKLSNKNSKEYETLMWEQKIRKEQAKKNVKKLSKEEQELVNEQLAKESAVRSHVSEISTRLKRGIRLVSELSKAACLVQNGIATWFPLAVTKLLYLCSEPNISKLTEDVNNVFLQLSQNVSERLGNIRLFLGLATLRVHNANGISQDYLQEPLVELLTRVLFRIKFVSNQAAIDSISLTYILPLLINVLEKGKAIALKNADKPVVKAEFVEEDEEEEHLLLAMEIISVHAEAFEDPSIPRISIVEVLLSLLSLPSKAKIAKDCFNALCQSISVAPNQEDLDMILSNLLSPNQFVRSTILETLDNEFELEPFMKYSPEVFICRFDSDPSNREIADFIWEFNKFVVNDELLKSLFPLFNQDDSGLRLFAANAYAFGAVSLFTSEENSSKDYLNDLLNFYKEKAKPLEPILDQFGLVLVSASEQKDPWQGRSTVAITLKIMAKAFSAEDDTVVNIIKFLVDDGGLVDREPIVRQEMKEAGVELITLHGSQNSKDLIPIFEEALSSSTDSALKENVIILYGTLARHLQQSDARIHTIIERLLSTLDTPSADIQQAVSACIAPLVFQFKQKVGDYLGILMEKLLNPTVASSMRKGAAWGIAGLVKGYGISALSEFDIIRNLIEAAEDKKEPKRRESVGFCFQYLSESLGKFFEPYVIEILPNILKNLGDAVPEVRDATARATKAIMAHTTGYGVKKLIPVAVSNLDEIAWRTKRGSVQLLGNMAYLDPTQLSASLSTIVPEIVGVLNDSHKEVRKAADESLKRFGEVIRNPEIQKLVPVLLQAIGDPTKYTEEALDSLIQTQFVHYIDGPSLALIIHIIHRGMHDRSANIKRKACKIVGNMAILVDTKDLIPYLQQLIDEVEIAMVDPVPNTRATAARALGALVERLGEEQFPDLIPRLLDTLSDESKSGDRLGSAQALAEVISGLGLTKLDEMLPTILAGVTNFRAYIREGFMPLLLFLPVCFGSQFAPYINQIIQPILSGLADNDENIRDTALKAGKLIVKNYATKAVDLLLPELERGMFDENDRIRLSSVQLTGELLFQVTGISSRNEFSEEDGDHNGEFSGKLVDVLGQDRRDRILAALFVCRNDTSGIVRATTVDIWKALVPNTPRAVKEILPTLTGMIVTHLASSSNVLRNIAAQTLGDLVRRVGGNALSQLLPSLEESLIETSNSDSRQGVCIALYELIESASTETISQFQSTIVNIIRTALIDESATVREAAALSFDVFQDVVGKTAVDEVLPYLLHMLESSDNSDFALLGLQEIMSKKSDVIFPILIPTLLAPPIDAFRASALGSLAEVAGSALYKRLSIIINALVDAIIGTSEDESTKGALELALDRVFLSVNDDEGLHPLLQQIMSLLKSDNIEKRIAVLERLPNFFDKTVLDFDVYIPNFVSHAILSLDDEDQRVVNGNFNALSTLLKKVDKPTLEKLVKPAKQSLALTGRQGQDVAAFKLPRGPNCVLPIFLHGLMYGSNDEREESALAIADVVSKTPAANLKPFVSVITGPLIRVVGERFSSDIKAAILFALNVLFIKIPMFLRPFIPQLQRTFVKSLSDATNETLRLRAAKALGALIEHQPRVDPLVIELVTGAKQATDEGVKTAMLKALLEVIMKAGSKLNENSKTNIVNLVEEEMLGSNDKLAVAYAKLIGSLSEILSNDEAHKILQDKVLNADLDGETGKFAILTLNSFLKDAPTHIFNTGLIDEFVSYILNAIRSPDVYFGENGTIAAGKLLLLEGEKRSPFVKKDAAEPFKIGDENINLLINELSKAVLQPASNSTDVRRLALVVIRTLARFKFDECIKQYFDVVGPSVFSCLRDPVIPIKLAAEKAYLALFKLVEEDDMHTFNEWFAKISDRGNSIETVTGTTIQLRSVGDYTKRVGKRLANVERERIAAGGDAETMFSDRFEDEREIWAVGGVELTTDI |
| 5840 | sp|Q92616|GCN1\_HUMAN | MAADTQVSETLKRFAGKVTTASVKERREILSELGKCVAGKDLPEGAVKGLCKLFCLTLHRYRDAASRRALQAAIQQLAEAQPEATAKNLLHSLQSSGIGSKAGVPSKSSGSAALLALTWTCLLVRIVFPSRAKRQGDIWNKLVEVQCLLLLEVLGGSHKHAVDGAVKKLTKLWKENPGLVEQYLSAILSLEPNQNYAGMLGLLVQFCTSHKEMDVVSQHKSALLDFYMKNILMSKVKPPKYLLDSCAPLLRYLSHSEFKDLILPTIQKSLLRSPENVIETISSLLASVTLDLSQYAMDIVKGLAGHLKSNSPRLMDEAVLALRNLARQCSDSSAMESLTKHLFAILGGSEGKLTVVAQKMSVLSGIGSVSHHVVSGPSSQVLNGIVAELFIPFLQQEVHEGTLVHAVSVLALWCNRFTMEVPKKLTEWFKKAFSLKTSTSAVRHAYLQCMLASYRGDTLLQALDLLPLLIQTVEKAASQSTQVPTITEGVAAALLLLKLSVADSQAEAKLSSFWQLIVDEKKQVFTSEKFLVMASEDALCTVLHLTERLFLDHPHRLTGNKVQQYHRALVAVLLSRTWHVRRQAQQTVRKLLSSLGGFKLAHGLLEELKTVLSSHKVLPLEALVTDAGEVTEAGKAYVPPRVLQEALCVISGVPGLKGDVTDTEQLAQEMLIISHHPSLVAVQSGLWPALLARMKIDPEAFITRHLDQIIPRMTTQSPLNQSSMNAMGSLSVLSPDRVLPQLISTITASVQNPALRLVTREEFAIMQTPAGELYDKSIIQSAQQDSIKKANMKRENKAYSFKEQIIELELKEEIKKKKGIKEEVQLTSKQKEMLQAQLDREAQVRRRLQELDGELEAALGLLDIILAKNPSGLTQYIPVLVDSFLPLLKSPLAAPRIKNPFLSLAACVMPSRLKALGTLVSHVTLRLLKPECVLDKSWCQEELSVAVKRAVMLLHTHTITSRVGKGEPGAAPLSAPAFSLVFPFLKMVLTEMPHHSEEEEEWMAQILQILTVQAQLRASPNTPPGRVDENGPELLPRVAMLRLLTWVIGTGSPRLQVLASDTLTTLCASSSGDDGCAFAEQEEVDVLLCALQSPCASVRETVLRGLMELHMVLPAPDTDEKNGLNLLRRLWVVKFDKEEEIRKLAERLWSMMGLDLQPDLCSLLIDDVIYHEAAVRQAGAEALSQAVARYQRQAAEVMGRLMEIYQEKLYRPPPVLDALGRVISESPPDQWEARCGLALALNKLSQYLDSSQVKPLFQFFVPDALNDRHPDVRKCMLDAALATLNTHGKENVNSLLPVFEEFLKNAPNDASYDAVRQSVVVLMGSLAKHLDKSDPKVKPIVAKLIAALSTPSQQVQESVASCLPPLVPAIKEDAGGMIQRLMQQLLESDKYAERKGAAYGLAGLVKGLGILSLKQQEMMAALTDAIQDKKNFRRREGALFAFEMLCTMLGKLFEPYVVHVLPHLLLCFGDGNQYVREAADDCAKAVMSNLSAHGVKLVLPSLLAALEEESWRTKAGSVELLGAMAYCAPKQLSSCLPNIVPKLTEVLTDSHVKVQKAGQQALRQIGSVIRNPEILAIAPVLLDALTDPSRKTQKCLQTLLDTKFVHFIDAPSLALIMPIVQRAFQDRSTDTRKMAAQIIGNMYSLTDQKDLAPYLPSVTPGLKASLLDPVPEVRTVSAKALGAMVKGMGESCFEDLLPWLMETLTYEQSSVDRSGAAQGLAEVMAGLGVEKLEKLMPEIVATASKVDIAPHVRDGYIMMFNYLPITFGDKFTPYVGPIIPCILKALADENEFVRDTALRAGQRVISMYAETAIALLLPQLEQGLFDDLWRIRFSSVQLLGDLLFHISGVTGKMTTETASEDDNFGTAQSNKAIITALGVERRNRVLAGLYMGRSDTQLVVRQASLHVWKIVVSNTPRTLREILPTLFGLLLGFLASTCADKRTIAARTLGDLVRKLGEKILPEIIPILEEGLRSQKSDERQGVCIGLSEIMKSTSRDAVLYFSESLVPTARKALCDPLEEVREAAAKTFEQLHSTIGHQALEDILPFLLKQLDDEEVSEFALDGLKQVMAIKSRVVLPYLVPKLTTPPVNTRVLAFLSSVAGDALTRHLGVILPAVMLALKEKLGTPDEQLEMANCQAVILSVEDDTGHRIIIEYLLEATRSPEVGMRQAAAIILNIYCSRSKADYTSHLRSLVSGLIRLFNDSSPVVLEESWDALNAITKKLDAGNQLALIEELHKEIRLIGNESKGEHVPGFCLPKKGVTSILPVLREGVLTGSPEQKEEAAKALGLVIRLTSADALRPSVVSITGPLIRILGDRFSWNVKAALLETLSLLLAKVGIALKPFLPQLQTTFTKALQDSNRGVRLKAADALGKLISIHIKVDPLFTELLNGIRAMEDPGVRDTMLQALRFVIQGAGAKVDAVIRKNIVSLLLSMLGHDEDNTRISSAGCLGELCAFLTEEELSAVLQQCLLADVSGIDWMVRHGRSLALSVAVNVAPGRLCAGRYSSDVQEMILSSATADRIPIAVSGVRGMGFLMRHHIETGGGQLPAKLSSLFVKCLQNPSSDIRLVAEKMIWWANKDPLPPLDPQAIKPILKALLDNTKDKNTVVRAYSDQAIVNLLKMRQGEEVFQSLSKILDVASLEVLNEVNRRSLKKLASQADSTEQVDDTILT |
| 5841 | sp|P0CU46|CAHS2\_HYPDU | MSQQYEKKVERTEVVYGGDRRVEGSASASAEKTTNYTHTEIRAPMVNPLPPIISTGAAGLAQEIVGEGFTASATRISGAAATTQVLESQASREQAFKDQEKYSREQAAIARAHDKDLEKKTEEYRKTAEAEAEKIRKELEKQHARDVEFRKDLVESAIDRQKREVDLEAKYAKKELEHERELAMNALEQSKMATNVQVQMDTAAGTTVSGGTTVSEHTEVHDGKEKKSLGEKIKSLF |
| 5842 | sp|Q7WVY0|CH602\_ANASL | MAKIISFDEESRRALERGVNALADAVKITLGPKGRNVLLEKKYGTPQIVNDGITVAKEIELEDPLENTGARLIQEVASKTKDVAGDGTTTATVLVQALIKEGLKNVAAGINPVSLKRGIDKTTEALVEEIAKVAKPVEGSAIAQVATVSAGNDEEVGGMIAEAVERVTKDGVITVEESKSLTTELDVVEGMHIDRGYISPYFITNNERQTVELENARILITDKKINSIQELVPVLKKVARLGQPLLIVAEDVEGDALATLVVNKARGVLSVAAIKAPGFGERRKALLQDIAILTDGQLISEEIGLSLDTASIDALCTARTITIDKENTTIVAGTTTKPEIQKRIGQIRKQLEETDSEYDKEKLQERIAKLAGGIAVIKVGAVPETELKDRKLRIENALNATKAAVAESIGPGGGKTLIYLASKVDPIKAYFEEEEKIGADIVKRALEAPLRQIADNAGEEGSVIVSRVKDSDFNVGYNAATGEFEDLIAAGIIDPAKVVRSALQNAASIAGLVLTTEAIVVEKPEKKPAVPADPGMGGMGGMGGMGGMGGMGGMGMF |
| 5843 | sp|P25969|CH101\_RHOSH | MAFKPLHDRVLVRRVQSDEKTKGGLIIPDTAKEKPAEGEVVSCGEGARKDSGELIAMSVKAGDRVLFGKWSGTEVTIDGAELLIMKESDILGILS |
| 5844 | sp|Q9KU18|CLPB\_VIBCH | MRLDRFTSKFQIAISDAQSLALGRDHQYIEPVHLMVALLDQNGSPIRPLLTMLNVDVMQLRSKLGEMLDRLPKVSGIGGDVQLSSALGSLFNLCDKVAQKRQDAYISSEIYLLAAIEDKGPLGHLLKEFGLTEKKVSEAIEKIRGGQKVNDPNAEELRQALEKFTIDLTERAEQGKLDPVIGRDDEIRRTIQVLQRRTKNNPVIIGEPGVGKTAIVEGLAQRIINNEVPEGLRGRRVLSLDMGALVAGAKYRGEFEERLKSVLNELAKEEGNIILFIDELHTMVGAGKGEGSMDAGNMLKPALARGELHCVGATTLDEYRQYIEKDPALERRFQKVLVDEPTVEDTIAILRGLKERYELHHHVEITDPAIVAAASLSHRYISDRQLPDKAIDLIDEAASSIRMQIDSKPEALDKLERKIIQLKIEQQALSNEHDEASEKRLAILNEELQEKERDYAELEEVWKAEKAALSGTQHIKAALEQARMDLEVARRAGDLNRMSELQYGRIPELEKQLDLAAQAEMQEMTLLRNKVTDAEIAEVLSKQTGIPVSKMLEAEKEKLLRMEDVLHKRVIGQKEAVEVVANAIRRSRAGLSDPNRPIGSFLFLGPTGVGKTELCKTLANFLFDSEDAMVRVDMSEFMEKHSVARLVGAPPGYVGYEEGGYLTEAVRRKPYSVILLDEVEKAHPDVFNILLQVLDDGRLTDGQGRTVDFRNTVVIMTSNLGSSRIQENFARLDYQGIKEQVMDVVSKHFRPEFLNRVDESVVFHPLGQEHIKSIASIQLARLRQRLAERDYQLEVDDEALDLIAHVGFDPVYGARPLKRAIQQNVENPLAKSILAGKFLPGSPILLSVKDGNIFASQ |
| 5845 | sp|Q5HHB0|CLPB\_STAAC | MDINKMTYAVQSALQQAVELSQQHKLQNIEIEAILSAALNESESLYKSILERANIEVDQLNKAYEDKLNTYASVEGDNIQYGQYISQQANQLITKAESYMKEYEDEYISMEHILRSAMDIDQTTKHYINNKVEVIKEIIKKVRGGNHVTSQNPEVNYEALAKYGRDLVEEVRQGKMDPVIGRDEEIRNTIRILSRKTKNNPVLIGEPGVGKTAIVEGLAQRIVKKDVPESLLDKTVFELDLSALVAGAKYRGEFEERLKAVLKEVKESDGRIILFIDEIHMLVGAGKTDGAMDAGNMLKPMLARGELHCIGATTLNEYREYIEKDSALERRFQKVAVSEPDVEDTISILRGLKERYEVYHGVRIQDRALVAAAELSDRYITDRFLPDKAIDLVDQACATIRTEMGSNPTELDQVNRRVMQLEIEESALKNESDNASKQRLQELQEELANEKEKQAALQSRVESEKEKIANLQEKRAQLDESRQALEDAQTNNNLEKAAELQYGTIPQLEKELRELEDNFQDEQGEDTDRMIREVVTDEEIGDIVSQWTGIPVSKLVETEREKLLHLSDILHKRVVGQDKAVDLVSDAVVRARAGIKDPNRPIGSFLFLGPTGVGKTELAKSLAASLFDSEKHMIRIDMSEYMEKHAVSRLIGAPPGYIGHDEGGQLTEAVRRNPYSVILLDEVEKAHTDVFNVLLQILDEGRLTDSKGRSVDFKNTIIIMTSNIGSQVLLENVKETGEITESTEKAVMTSLNAYFKPEILNRMDDIVLFKPLSIDDMSMIVDKILTQLNIRLLEQRISIEVSDDAKAWLGQEAYEPQYGARPLKRFVQRQIETPLARMMIKEGFPEGTTIKVNLNSDNNLTFNVEKIHE |
| 5846 | sp|P0A6G7|CLPP\_ECOLI | MSYSGERDNFAPHMALVPMVIEQTSRGERSFDIYSRLLKERVIFLTGQVEDHMANLIVAQMLFLEAENPEKDIYLYINSPGGVITAGMSIYDTMQFIKPDVSTICMGQAASMGAFLLTAGAKGKRFCLPNSRVMIHQPLGGYQGQATDIEIHAREILKVKGRMNELMALHTGQSLEQIERDTERDRFLSAPEAVEYGLVDSILTHRN |
| 5847 | sp|Q9A9T4|CLPB\_CAUVC | MNIDLYSDRAKQAVQSAQSLALARGHQQFAPEHILKVLLEEKDGLSRALIQSAGGRPDQLDGGVETLLAKTPRVDGAGGQLYMKPDTARVFAEAEKSAKAAGDAFVTTERLLIAIAKEGGEAAKLFKEAGVSAQSLETAANAMRKGRTADSANAEEGYEALKRYARDLTAAARDGKLDPVIGRDEEIRRTIQVLSRRTKNNPVLIGEPGVGKTAIVEGLALRIVNGDVPESLKDKKLLSLDMGSLIAGAKYRGEFEERLKAVLGEVTAAEGSIILFIDEMHTLVGAGKGDGAMDASNLLKPALARGELHCVGATTLDEYRKHVEKDAALARRFQPVFVSEPTVEDTVSILRGLKEKYEVHHGVRISDSAIVAAATLSNRYIADRFLPDKAIDLVDEASSRVRMQIDSKPEELDEIDRRLVQLKIEREALSKETDAASKQRLENLEVEIDDLQFRSDEMTARWKAEKEKVGGAAQAREALDRLRADLANAQRAGDFARAGQIQYGEIPALERRLAEAEAGDTQALTPEVVDAEQIAAVVSRWTGVPVEKMLEGEREKLLKMEDELRGRVVGQDEALEAVSDAVRRARAGLQDPSKPIGSFLFLGPTGVGKTELTKSLAEFLFADEAAITRMDMSEYMEKHSVSRLIGAPPGYVGYDEGGALTEAIRRRPYQVVLFDEIEKAHPDVFNVLLQVLDDGRLTDGQGRTVDFRNTLIIMTSNLGAEYLASQEDGEDVEAVRPMVMNTVRGHFRPEFLNRIDEIILFKRLSRHNMGDIVRIQLQRVEKLLADRRMALALDAEALNWLADKGYDPVYGARPLKRVIQKELVDPIAKKLLAGEIEDGGVIAVGVTDGQLSFGKAVLQ |
| 5848 | sp|Q81VG0|CSHA\_BACAN | MTTFRELGLSDSLLQSVESMGFEEATPIQAETIPHALQGKDIIGQAQTGTGKTAAFGLPLLDKVDTHKESVQGIVIAPTRELAIQVGEELYKIGKHKRVRILPIYGGQDINRQIRALKKHPHIIVGTPGRILDHINRKTLRLQNVETVVLDEADEMLNMGFIEDIEAILTDVPETHQTLLFSATMPDPIRRIAERFMTEPQHIKVKAKEVTMPNIQQFYLEVQEKKKFDVLTRLLDIQSPELAIVFGRTKRRVDELSEALNLRGYAAEGIHGDLTQAKRMSVLRKFKEGSIEVLVATDVAARGLDISGVTHVYNFDIPQDPESYVHRIGRTGRAGKKGIAMLFVTPRESGQLKNIERTTKRKMDRMDAPTLDEALEGQQRLIAEKLQSTIENENLAYYKRIAEEMLEENDSVTVVAAALKMMTKEPDTTPIALTSEPPVVSRGGGSKKRGGNGGGYRDGNRNRSRDGRGGDGRNRDRNRDGRNRDGNRDRNREGSRDGNRGRRGEGQGRPGSSNGRGERKHHSRKPQA |
| 5849 | sp|P41016|CSPB\_BACCL | MQRGKVKWFNNEKGYGFIEVEGGSDVFVHFTAIQGEGFKTLEEGQEVSFEIVQGNRGPQAANVVKL |
| 5850 | sp|Q8H995|CRJ32\_CRYJA | MARAMHTVWIALVPTLFVFLQGINVKAATFDITNQCPYTVWAAASPGGGRQLAKGQTWTIQVPAGTTGGRVWARTGCSFDRSGRGTCQTGDCNGMLSCQGYGQVPATLAEYALNQYMNLDFYDISLVDGFNVPISMTPTSTNPNCKGRITCLSDINSKCPSELKVNGGCKSACARYNTAQYCCTGASANNCGPTNYSKFFKGQCPQAYSYAKDDATSTFTCPSGTNYKVVFCG |
| 5851 | sp|Q8CDG5|CRERF\_MOUSE | MPQPSVSGMDPPFGDAFRSHTFSEQTLMSTDLLANSSDPDFMYELDREMNYQQNPRDNFLSLEDCKDIENLETFTDVLDNEDALTSNWEQWDTYCEDLTKYTKLTSCDIWGTKEVDYLGLDDFSSPYQDEEVISKTPTLAQLNSEDSQSVSDSLYYPDSLFSVKQNPLPPSSFPSKKITNRAAAPVCSSKTLQAEVPSSDCVQKASKPTSSTQIMVKTNMYHNEKVNFHVECKDYVKKAKVKINPVQQGRPLLSQVHIDAAKENTCYCGAVAKRQERRGVEPHQGRGTPALPFKETQELLLSPLTQDSPGLVATAESGSLSASTSVSDSSQKKEEHNYSLFVSDNMREQPTKYSPEDDEDDEDEFDDEDHDEGFGSEHELSENEEEEEEEEDYEDDRDDDISDTFSEPGYENDSVEDLKEMTSISSRKRGKRRYFWEYSEQLTPSQQERILRPSEWNRDTLPSNMYQKNGLHHGKYAVKKSRRTDVEDLTPNPKKLLQIGNELRKLNKVISDLTPVSELPLTARPRSRKEKNKLASRACRLKKKAQYEANKVKLWGLNTEYDNLLFVINSIKQDIVNRVQNPREEREPSMGQKLEILIKDTLGLPVAGQTSEFVNQVLGKTAEGNPTGGLVGLRIPASKV |
| 5852 | sp|O05942|DEGPL\_RICPR | MVNLKIFLIVIVLMFNNIILAKENSNALKVVDQEENEFTAINSAPLKISEAARYSFADIVEPLIPAVVNISTIEYVNDKSENSEKDLLQENKHLGFMSDVLEKLNIPLNLEEIAKTPKSIPLGSGFIIAPNGLIVTNYHVIANVEKINIKLADNTEFLAKLIGSDSKTDLALLKIDSEEPLPFVEFGDSNDARVGDWVIAIGNPFGNLGGTVTSGIISSKGRDIDVDTDNIVDNFIQTDAAINNGNSGGPMFNLDQKVIGVNTAIFSPLGTNIGIGFAIPSNTAKPIIERLKKDGKVSRGRLGVTIQDLTEEISEVLGFKGTNGVLVSKVQENGPGYKAGIKKGDIIIKFGDRLVKNTKKLRVIIADTPINQEVKLKILRDAQELELPIKVTADNEEVINDSTEETNKAVIINKKENNLSITKNNITFSNLTEELRKKYDIPQDKTGIVIINIDEEESVFKLGDLITNINHDSIDDIRKLEVLYENAKKLEKQNILLLIERGDTSVFIPLSVS |
| 5853 | sp|P76316|DCYD\_ECOLI | MPLHNLTRFPRLEFIGAPTPLEYLPRFSDYLGREIFIKRDDVTPMAMGGNKLRKLEFLAADALREGADTLITAGAIQSNHVRQTAAVAAKLGLHCVALLENPIGTTAENYLTNGNRLLLDLFNTQIEMCDALTDPNAQLEELATRVEAQGFRPYVIPVGGSNALGALGYVESALEIAQQCEGAVNISSVVVASGSAGTHAGLAVGLEHLMPESELIGVTVSRSVADQLPKVVNLQQAIAKELELTASAEILLWDDYFAPGYGVPNDEGMEAVKLLARLEGILLDPVYTGKAMAGLIDGISQKRFKDEGPILFIHTGGAPALFAYHPHV |
| 5854 | sp|A6QHC2|DNAJ\_STAAE | MAKRDYYEVLGISKDASKDEIKKAYRKLSKKYHPDINKEEGADEKFKEISEAYEVLSDDNKRASYDQFGHDGPQGFGGQGFNGSDFGGFSGFGGGGFEDIFSSFFGGGRQRDPNAPQKGDDLQYTMTLTFEEAVFGTTKEISIRKDVTCETCHGDGAKPGTSKKTCSYCNGAGHVAVEQNTILGRVRTEQVCPKCNGSGQEFEEACPTCHGKGTENKTVKLEVKVPEGVDNEQQIRLAGEGSPGVNGGPAGDLYVVFRVKPSETFKRDGDDIYYKLNVSFPQAALGDEIKIPTLNNEVMLTIPAGTQTGKQFRLKEKGIKNVHGYGYGDLYVDIKVVTPTKLTDRQKELMKEFAQLNGEEINEQPSNFKDRAKRFFKGE |
| 5855 | sp|Q46I76|DNAK\_PROMT | MGKVVGIDLGTTNSCVAVMEGGKPTVIANAEGFRTTPSVVAYTKNQDQLVGQIAKRQAVMNPENTFYSSKRFVGRRVDEVNDESKEVSYGVEKAGSNVKIKCPILDKQFSPEEVSAQVLRKLSDDAGKYLGETVTQAVITVPAYFNDSQRQATKDAGKIAGLEVLRIINEPTAAALAYGLDKKSNERILVFDLGGGTFDVSVLEVGDGVFEVLSTSGDTHLGGDDFDRVIVDHLASTFKGNEGIDLRQDKQALQRLTEAAEKAKIELSNATQSEINLPFITATPEGPKHLDLTLTRGKFEELASNLIDRCRVPVEQALKDAKLSTGEIDEIVMVGGSTRMPAVKELVKRVTTKDPNQTVNPDEVVAVGAAIQGGVLAGEVKDILLLDVTPLSLGVETLGGVMTKMISRNTTVPTKKAETYSTAVDGQTNVEIHVLQGEREMASDNKSLGTFRLDGIPPAPRGVPQIEVTFDIDANGILSVNAKDKGSGKEQSISITGASTLSDNEVDKMVKDAEMNASADKEKREKIDIKNQAETLVYQAEKQIGELGDKVDEAAKAKVEEKRIKLKEATEKDDYESMKTLVEELQQELYSLGASVYQQANDASQAAADSNTDSKVDGDDVIDADFTETK |
| 5856 | sp|Q9XCB1|DNAK\_RHOMR | MGKIIGIDLGTTNSVVAVMEGGEPKVIINPEGSRVTPSVVAFTADGEPLVGAPAKRQAITNPKNTIFSIKRFMGRFYDEVTEEISMVPYKVVRGENNTVRVEVEVGGEKRLYTPQEISAMILQKLKQTAEEYLGVPVTEAVITVPAYFNDAQRKATKEAGEIAGLKVRRILNEPTAAALAYGLDKKDKELKIAVYDLGGGTYDISILELGDGVFEVKATNGDTHLGGDNFDQRLIDYIADEFQKQEGIDLRKDPMALQRLKEAAEKAKIELSSAMKTTVNLPFITATAEGPKHLVMEITRAKFEQLIEDLVARTIPPMEQALKDAKLRKEDIDEVILVGGSTRIPLVQRTVEEFFGKKANKSVNPDEVVAIGAAIQAGVLSGEVQDVLLLDVTPLNLGIETLGGVMTVLIPANTTIPTRKSEIFTTASDNQTSVEIHVLQGNREMAADNRSLGRFILDGIPPAPRGVPQIEVTFDIDANGILHVSARDKATGKEQSIRIEASSGLTPEEIERMREEARRHAAEDRKRREQIEKLNQADSLIYMTEKNLREYGDKLPADKRAKIESALERLKEVHKARNFDELDSAIAQLNQAWNEASQDLYRAQQAAGAQTSDGASAQADSGGVREADYEVIDEDDKDKQ |
| 5857 | sp|Q49539|DNAK\_MYCH2 | MAKEIILGIDLGTTNSVVAIIENQKPVVLENPNGKRTTPSVVAFKNNEEIVGDAAKRQLETNPEAIASIKRLMGTDKTVRANERDYKPEEISAKILAYLKEYAEKKIGHKVTKAVITVPAYFDNAQREATKNAGKIAGLQVERIINEPTAAALAFGLDKTEKEMKVLVYDLGGGTFDVSVLELSGGTFEVLSTSGDNHLGGDDWDNEIVNWLVKKIKEVYDFDPKSDKMALTRLKEEAEKTKINLSNQSVSTVSLPFLGMGKNGPINVELELKRSEFEKMTAHLIDRTRKPIVDALKQAKIEASDLDEVLLVGGSTRMPAVQSMIEHTLNKKPNRSINPDEVVAIGAAIQGGVLAGEISDVLLLDVTPLTLGIETLGGIATPLIPRNTTIPVTKSQIFSTAEDNQTEVTISVVQGERQLAADNKMLGRFNLSGIEAAPRGLPQIEVSFSIDVNGITTVSAKDKKTGKEQTITIKNTSTLSEEEINKMIQEAEENREADALKKDKIETTVRAEGLINQLEKSITDQGEKIDPKQKELLEKQIQELKDLLKEDKTDELKLKLDQIEAAAQSFAQATAQQANTSESDPKADDSNTIDAEIKQD |
| 5858 | sp|B3DZP7|DNAK\_METI4 | MAHVLGIDLGTTNSCMAIVEGGQPVVLENSEGARTTPSIVAFTKSGERLVGQAAKRQAITNSKNTIYSIKRFIGRKFSEVQEEIKRVPYKVIEGKNGDCAVEVEVAGERRVYTPQEISAFILMKLKADAESKLGEKITQAVITVPAYFNDSQRQATKAAGEIAGLEVLRIINEPTAASLAYGLDKKKDERIAVYDLGGGTFDISVLEIGEGVFEVKATNGDTHLGGDDWDAAIMEWIISDFKKETGIDLHGQPDAVQRIKEEAEKAKIALSSALEYEINLPFITADQTGPKHIQKKLTRAKLEQLTEHLAERTVQPVLNCLKDAKLTAADIDELVLVGGMTRMPKIIEIARKLIGREPHKGVNPDEVVAVGAAIQGAVLKGQVKDVLLLDVTPLTLSIETAGGIATPMIPRNTTIPTRKSQIFSTFSDNQPSVEIKVLQGERPMARDNKLLGVFHLDGIPPAPRGVPQIEVTFDIDANGILHVSAKDLGTGREQKITITGSSGLSKEEIERMTKEAEAYREQDLKNKERAEAKNNADNAAYQAEKLLREYGDKVDSAKKMEVEKCIEKVREVIKGDDTEAIKRAMDELNEKVQAISVEMYRAASSKASAASSPPPPPGAGGQKSDVIDAEFEKVDKDKPQA |
| 5859 | sp|B8CXL0|DNAJ\_HALOH | MATSKDYYEILGVSRDADQKEIKKAYRRLARKYHPDINKDDPDAEEKFKEISEAYEILSDPDKRARYDQYGHAGINEEDFNFEDFAQRGFGGFDDIFDMFFGGGMGRRRRGPRPGADLQYRMKIPFEDAAFGTTKKITIPRTETCDTCNGTGAKPGTSPKTCPQCNGSGQVRYTQRTPFGQFAQTRTCDRCGGRGTIIDDPCPTCQGSGKVRKQRKITVKIPPGVDTGTRLRMPNEGEAGDKGAPNGDLYIIIEVEPHDIFERKDDDIYCEVPISFVQAALGDKIEVPTLEGKVKFTIPEGTQPDTVFRLKNKGIPHLNGRGRGDEFIKVRVVIPEKMNDEQKELLRKFAEISGDEINPEQKSFIKKVKDAFGVG |
| 5860 | sp|B4SDA0|DNAK\_PELPB | MGKIIGIDLGTTNSCVSVMQGSQPTVIENSEGNRTTPSIIALTKTGDRLVGQAAKRQAITNPKNTIFSIKRFMGRKYDEINDEKKLAPYEIINEGGEARVKINDKIYSPQEVSAMILQKMKQTAEDFLGEKVTEAVITVPAYFNDAQRQATKDAGRIAGLDVKRIINEPTAAALAYGLDRKQTSEKVAVFDLGGGTFDISVLELGDGVFEVKSTDGDTHLGGDNFDQKIIDYIADEFKKQEGIDLRKDAITLQRLKEAAEKAKIELSSRTDTEINLPFITATQEGPKHLVINLTRAKFEALCADLFDKILDPCRRAIKNSKLEMKEIDEVVLVGGSTRIPKVQALVKDFFGKEPNKSVNPDEVVAIGAAIQGGVLKGDVTDVLLLDVTPLSLGIETLGGVMTKLIDANTTIPTRKQEVFSTAGDNQTSVEVHVLQGERPMATDNKTLGRFHLGDIPPSPRGIPQIEVTFDIDSNGILHVSAKDKATGKEQSIKIESSSKLTDAEISKMKEDAKEHAAEDQKRKEEIDTRNIADSLIFSTEKQLKELGDKIPADKRPVLEGSLEKLKEAYKNGTVESLKSAMEELNKEWSEIASHLYQSQGPESSQPETAAQSDSGEKSKKNSGDGNVENAEYEVIDGNDK |
| 5861 | sp|A1B4E9|DNAK\_PARDP | MSKVIGIDLGTTNSCVAIMDGSQPKVIENSEGARTTPSIVAFTDSERLVGQPAKRQAVTNPSNTVFAVKRLIGRRTTDAEVEKDKKLVPYAIVDGGNGDAWVEVRGDKYSPSQISAFILQKMKETAESYLGEPVTQAVITVPAYFNDAQRQATKDAGKIAGLEVLRIINEPTAAALAYGLDKKDSKTIAVYDLGGGTFDITILEIDDGLFEVKSTNGDTFLGGEDFDMRIVNYLADEFKKEHGVDLTKDKMALQRLKEAAEKAKIELSSSSQTEINQPFISMDKDSGTPLHMVMKLTRAKLESLVGDLIKRTMKPVQDALKDAGMSKGDIDEIVLVGGMTRMPKVVEEVTAFFGKEPHKGVNPDEVVALGAAIQAGVLQGDVKDVVLLDVTPLSLGIETLGGVFTRLIDRNTTIPTKKSQIFSTAEDNQNAVTIRVFQGEREMAADNKLLGQFNLENIPPAPRGMPQIEVTFDIDANGIVSVSAKDKGTGKEQKITIQASGGLSDDEIDRMVKDAEANAEADKQRKELVEAKNQAESLIHTTKKSLEEHGDKVDGSTVEAIELAVGALEEALKSEDAGKIKGGIQNLMDASMKLGEAIYKASQAEAGTGDAEGEAGPRDVDDEIVDADFEDLGEDKRK |
| 5862 | sp|A4T112|DNAK\_MYCGI | MARAVGIDLGTTNSVVAVLEGGDPVVVANSEGSRTTPSVVAFARNGEVLVGQPAKNQAVTNVDRTIRSVKREIGTDWSVEIDGKNYTPQEISARVLMKLKRDAESYLGEDITDAVITVPAYFNDAQRQATKDAGQIAGLNVLRIVNEPTAAALAYGLDKGEKEQTILVFDLGGGTFDVSLLEIGEGVVEVRATSGDNHLGGDDWDDRIVEWLVDKFKGTSGIDLTKDKMAMQRLREAAEKAKIELSSSQSTSINLPYITVDADKNPLFLDEQLTRSEFQKITQDLLDRTRKPFQSVIKDAGISVGEIDHVVLVGGSTRMPAVSELVKEMTGGKEPNKGVNPDEVVAVGAALQAGVLKGEVKDVLLLDVTPLSLGIETKGGVMTKLIERNTTIPTKRSETFTTADDNQPSVQIQVFQGEREIASHNKLLGSFELTGIPPAPRGVPQIEVTFDIDANGIVHVTAKDKGTGKENTIKIQEGSGLSKEEIDRMIKDAEAHADEDRKRREEADVRNQAESLVYQTEKFVKEQREAEGGSKVPEDTLTKVDAAISDAKAALAGTDIAAIKSAMEKLGEESQALGQAIYEATQAEQAAGGAPGGESTGASNSGDDVVDAEVVEDDQERK |
| 5863 | sp|B3EHR1|DNAK\_CHLL2 | MGKIIGIDLGTTNSCVAVMQGTQPTVIENSEGNRTTPSMVAVTKTGDRLVGQAAKRQAITNPKNTVFSIKRFMGRKYDEVPNEKKLASYDVINEGGEARVKINDKIYSPQEVSAMILQKMKQTAEDFLGEKVTEAVITVPAYFNDAQRQATKDAGRIAGLDVKRIINEPTAAALAYGLDKKMSSEKVAVFDLGGGTFDISILELGDGVFEVKSTDGDTHLGGDDFDQKIIDYLADEFKKQEGIDLRNDAIALQRLKEAAEKAKVELSSRTDTEINLPFITATQEGPKHLVINLTRAKFEAMCADLFEKILEPCHRAVKNSKLDMKEIDEVVLVGGSTRIPKVQTLVKEFFGKEPNRSVNPDEVVAIGAAIQGGVLKGDVTDVLLLDVSPLSLGIETLGGVMTRLIEANTTIPTRKQEVFSTAADSQTSVEVHVLQGERPMASDNKTLGRFHLGDIPPAPRGVPQIEVTFDIDSNGILSVSAKDKATGKEQTIRIEASGKLNDAEIEKMKQDAKEHAAEDQKKKEEIDIRNSADSLIFSTEKQLTELGDKIPADKKPRLEGSLEKLKEAYKNGTAESIKSAMDDLNKEWSDIASSLYQTPDAGAPGASGPSAGGEPETGKKGGDGEVQNAEYEVIDGNDK |
| 5864 | sp|Q8L397|DNAJ\_ACHLA | MAKRDYYDVLGISKSASQDEIKKAYRSLAKKYHPDVSKEKDAETKFKEVQEAYDVLNDSNKKAQYDRFGHAGTGQDPFGGAGGGFGGFGGFDDIISQFFGGGQTRRTRQTSNVGEDLNMRMTIDFMEAVLGTTKNVSVDITQDCGHCHGSGAESSKDVHTCSKCHGQGFINVDQRTMFGTMRSQQVCPQCQGEGQTIDNKCHVCSGAGRVKAKKTVDVKVPAGVDNEMTLRVPGYGNGGRKGAESGDLYITFRVKPHKIFKRRGSDIILDVPITFTQAALGDKIDIPTIYGEVELTIPAGIQSGTELKLKNKGTKDPRTGKTGDQHVIVNIETPKNLSSEEKKLFEQLSKLDSPRKKSGWDKFKSFFTN |
| 5865 | sp|Q2GF34|DNAK\_NEOSM | MAGEIAIGIDLGTTNSCVAIKDKVIENAEGARTTPSVVAFTSDGQTLVGAPAQRQAVTNAKNTIVASKRLIGRRFKDNVIKGIQRDYPYKIIEAKNGDAWIEAGGKSYSPSQIGANVLIKLKEAAETYTGKKVTKAVITVPAYFDDAQRQATKDAGRIAGLEVLRIINEPTAAALAYGLDKTATTKNIAVFDLGGGTFDVSILELGDGVFEVKATNGDTHLGGEDFDRMILNFLVEEFKKENGMDLKNDPLALQRLKEAAEKAKKELSSTQETDINLPYITADAAGPKHLNVKFTRAKLESLVSDLIDRTIEPCKKALKDSGLKREEINEVVLVGGMTRMPAVVKKVTEFFGKEPHKGVNPDEVVAIGAAIQANILAGGSDAQDIVLLDVTPLSLGIETLGGVFTKLIDRNTTIPTKRSQTFSTAEDNQSAVTIRVFQGERQMASDNKLLGQFSLEGIPPAPRGMPQIEVTFDIDANGIVHVSAKDKGTGKEQTVKIQASGGLTEEEIKKMVDEAASKADEDKKRRELVEAKNSAESLIHSTEKSLSEYGSKISSSDKQSIDDAISDLKSVLAKDDASLIKEKTDALSKVSMKLGEAMYKESQSASNDPSPKNDSTEEGERVVDPEYEEVKDEDSK |
| 5866 | sp|B2KAX0|DNAK\_ELUMP | MARIIGIDLGTSNTAAAAMEGGRATIIPSAEGSSIGGKAFPSYVAFTKDGQRLVGEPARRQAIANPEGTVTAFKRRMGEDYKFTLRGQEFTPQQLSAFVLQKVKKDAEAFLGEPVEKAVITVPAYFNDNQRQATKDAGRIAGLEVVRLVNEPTAAALAYGIDKAGKEQKIMVFDLGGGTLDVTIMEMGKEGTFDVLSTSGDTKLGGTDMDNAIIEWMVSEFKKSTGIDLSADKQAAQRLKDAAEKAKIELSTTMETDINLPFISAGADGPKHLELKLSRAKLESLVDSIVKRCGASIDQALNDSSLKSTEIDKIILVGGPTRMPIVQKYVEDHAGKKIERGIDPMECVATGAAVQAGILTGDVKDVLLLDVTPLSLGLETLGGVTTRLIERNTTIPVRKTQVFSTASDNQPAVTINVLQGERPMAKDNVPLGKFDLDGIPPAPRGVPQIEVTFDIDANGILNVSAKDLGTNKQQHITITSKTKLSDDEVQKFVKEAEKFADEDKKTKERVDAKNEADSVLFQTEKALKEHGDKVPQEDRLNIDRALGDLKEALKGDDVERIKKAKDDALAASQKLGEIIYKESQAKAQGAAGPQPGAQAQGQPNDGGKEDVVEAEVVDK |
| 5867 | sp|Q7VEJ6|DNAJ\_PROMA | MADFYDTLGVNRNADADSLKRAYRRLARQYHPDINKEAGAEERFKEIGRAYEVLGDPEKRARYDQFGEAGLGGSAGMPDMGDMGGFADIFETFFSGFGGPGSSGARTQRRGPQQGDDLRYDLTIDFNQAVFGQEREIKIPHLETCDVCRGTGAKPGTGPTTCSTCGGAGQVRRATRTPFGSFTQVSDCPTCSGSGQVISDSCQSCGGQGVKQVRKKLRINIPAGVDTGTRLRVSGEGNAGPRGGPSGDLYVFLKVKSHARLKRDGLNIHSEVNVSYLQAILGDTIEVDTVDGPTTLQIPSGTQPSAVLILDNKGIPKLGNPVARGNHCISVNIKIPSRLTDDEKILLEKLAIYYSAKGPQNHHHNSGLFSRLFKSNAS |
| 5868 | sp|A6LRN5|DNAJ\_CLOB8 | MANKDYYELLGLQKGASDDEIKRAFRKLAVKYHPDRNQGNAEAEEKFKEINEAYQVLSDPEKKAKYDQFGSAAFDGSGGFGGGGFGGFDGFDMGGFGDIFESFFGGGGSNSRRRNGPVRGNDIEYTITLTFEEAVFGVEKEISVTRNENCEHCHGSGAEPGTNAKTCPTCSGSGQVRVQRQTPLGSFVSTSTCDTCRGTGKIIEKPCSECRGKGSVRKTRKIKVNIPAGVDTGNVMPLRGQGEHGLRGGSPGDLYVRINVTPSKVFTRKGNDVYIDAHISMPKAALGTEITVATVDGNVKYTVPPGTQSGTMFRLKGKGIQRVNSNGKGDQYVKVIVDIPKTLNKEQKEALYDFMRASGEEFDEANVPKKKLFGKNK |
| 5869 | sp|P17631|DNAJ\_BACSU | MSKRDYYEVLGVSKSASKDEIKKAYRKLSKKYHPDINKEAGSDEKFKEVKEAYETLSDDQKRAHYDQFGHTDPNQGFGGGGFGGGDFGGFGFDDIFSSIFGGGTRRRDPNAPRQGADLQYTMTLSFEDAAFGKETTIEIPREETCETCKGSGAKPGTNPETCSHCGGSGQLNVEQNTPFGKVVNRRVCHHCEGTGKIIKNKCADCGGKGKIKKRKKINVTIPAGVDDGQQLRLSGQGEPGINGGPAGDLFVVFHVRAHEFFERDGDDIYCEMPLTFAQAALGDEVEVPTLHGKVKLKIPAGTQTGTKFRLRGKGVQNVRGYGQGDQHIVVRVVTPTNLTDKQKDIIREFAEVSGNLPDEQEMSFFDKVKRAFKGD |
| 5870 | sp|Q5M6D1|DNAK\_STRT2 | MSKIIGIDLGTTNSAVAVLEGTEPKIIANPEGNRTTPSVVSFKNGEIIVGDAAKRQAVTNPDTVISIKSKMGTSEKVSANGKEYTPQEISALILQYLKGYAEEYLGEKVTKAVITVPAYFNDAQRQATKDAGKIAGLEVERIVNEPTAAALAYGLDKTDKEEKILVFDLGGGTFDVSILELGDGVFDVLATAGDNKLGGDDFDQKIIDYMVEEFKKENGIDLSTDKMALQRLKDAAEKAKKDLSGVTSTQISLPFITAGEAGPLHLEMTLTRAKFDDLTRDLVERTKTPVRQALSDAGLSLSDIDEVILVGGSTRIPAVVEAVKAETGKEPNKSVNPDEVVAMGAAIQGGVISGDVKDVVLLDVTPLSLGIETMGGVFTKLIERNTTIPTSKSQVFSTAADNQPAVDIHVLQGERPMAADNKTLGRFQLTDIPAAPRGVPQIEVTFDIDKNGIVSVKAKDLGTQKEQTIVIQSNSGLTDEEIERMMKDAEANAEADAKRKAEVELRNEVDQAIFATEKTIKETEGKGFDTERDAAQSALDELKKAQESGNLDDMKAKLEALNEKAQALAVKLYEQAAAAQQAQAGAEGAQATDNSGDDVVDGEFTEK |
| 5871 | sp|Q9UDY4|DNJB4\_HUMAN | MGKDYYCILGIEKGASDEDIKKAYRKQALKFHPDKNKSPQAEEKFKEVAEAYEVLSDPKKREIYDQFGEEGLKGGAGGTDGQGGTFRYTFHGDPHATFAAFFGGSNPFEIFFGRRMGGGRDSEEMEIDGDPFSAFGFSMNGYPRDRNSVGPSRLKQDPPVIHELRVSLEEIYSGCTKRMKISRKRLNADGRSYRSEDKILTIEIKKGWKEGTKITFPREGDETPNSIPADIVFIIKDKDHPKFKRDGSNIIYTAKISLREALCGCSINVPTLDGRNIPMSVNDIVKPGMRRRIIGYGLPFPKNPDQRGDLLIEFEVSFPDTISSSSKEVLRKHLPAS |
| 5872 | sp|P12952|DHN2\_HORVU | MEYQGQTGHATTDKVEEYGQPVAGHGGATGGPTGTHGAAAAAAGTGQLQPTRDDHKTDGVLRRSGSSSSSSSEDDGVGGRRKKGMKEKIKEKLPGGAHKDAAGQQHTPAAGEYAGTGTHGAEATGEKKGVMDKIKEKLPGGQH |
| 5873 | sp|Q9SVX5|DRE2F\_ARATH | MEKSSSMKQWKKGPARGKGGPQNALCQYRGVRQRTWGKWVAEIREPKKRARLWLGSFATAEEAAMAYDEAALKLYGHDAYLNLPHLQRNTRPSLSNSQRFKWVPSRKFISMFPSCGMLNVNAQPSVHIIQQRLEELKKTGLLSQSYSSSSSSTESKTNTSFLDEKTSKGETDNMFEGGDQKKPEIDLTEFLQQLGILKDENEAEPSEVAECHSPPPWNEQEETGSPFRTENFSWDTLIEMPRSETTTMQFDSSNFGSYDFEDDVSFPSIWDYYGSLD |
| 5874 | sp|P83067|EFG\_BACCE | MAREXSKENTR |
| 5875 | sp|Q5AUY5|CIPB\_EMENI | MAANINNAAAWLTEAKAHPFQVKEAPSYTPEENEILVKNHAVAINPVDGSLQSKAWWPMNYPTILGQDVAGEVVQVGPNVARFQPGDRVVGHAVGMATKRLQDNAFQAYTILQTNMASQLPSEISYEDAAVLPLGLSTAASGLFQDDVGSNAIQLGVAAGYEVFTTASPKNFDYVKELGASQVFDYHSATVAQDLVAALQGKTVAGAMDCIGFAATPLTVEVVSKSQGVKFVSTVKGGFQAPEGVTVKSVFGTTIKDNQVGKAIYEDYLPKALKAGSFIPAPVALVAGKGLESVQAAVDLQAQGTSAQKVVVSL |
| 5876 | sp|Q7VQF3|CLPB\_BLOFL | MRLDRFDRSFQLALSDAQSIAIGKDNQFIEPVHVMYTFLKEKKYKSIRNLLIHAGSNVDQLYKSVEQVCNDLPRVESVDGDREVQCSHALVKILNLCDKLAQKYHSNIIFSEVFIIAALQSQDVLSILLKKSGIVKELLEKLVQYEQSNYSIHDDSFKNRTQILEQFTVDITSLAEQNNLDPVIGRDEEIRRTIQVLQRRTKNNPVLIGNPGVGKTAIVEGLAQRIINKEVPEGLKNSRILSLDIAALLAGTKYRGEFEERFKKVLYAVSKDNNTILFIDELHVMVGAGKTDGSMDASNMIKPKLARGELHCVGATTLDEYSRYIEKDAALERRFQKIFIIEPNIENTIAILRGLKERYELHHNVHITDPAIVAAATLSNRYISDRQLPDKAIDLIDEAASSIRIQIDSKPEDLDRLDRRIIQLKLECQALKKESDELSKKRLEILSMELSQKEQEYSVLESEWKRERSSLFDIQNIKSDLEKAKTILDQSRRIGDLAQMSELQYGRIPELEKKLFNAIQSSNKKMRLLRNYVSEVEIAEVLSKWTGIPISRILANEKNKLLNMETILHQLVIGQDEAVRVISNAIRRSRSGLSDPKRPIGSFMFLGPTGVGKTELCKALSQFLFDTDNAMVRIDMSEFMEKHSVSKLLGAPPGYIGYESGAYLTESIRRRPYSIVLLDEIEKAHLDVFNILLQVLDDGRLTDNQGRMVDFNNTVIIMTSNLGSDLIQKKFDISDYDTMKKTVLNVVNQYFRPEFINRIDEIVVFHPLSIKHLIDIANIQLKYLYSRLEERGYPRTGITNKALLFLSKIGFDPIYGARPLKRIIQQYIENPLSQKILSDDLLPGRSITIDVQNDNIVFIQNDVIDDKDIYIN |
| 5877 | sp|Q8Y570|CLPB\_LISMO | MDLQKFTQQVQQTIADAQNLAIASEHQEIDVAHVFKVLLTESDFAKRVYDVAEVDTDALQKVIENTLEKIPVVSGSGVNYGQAMSQALFQLMRDAEKEQQQLEDDFVSTEHLILAVMDQKSNPITAELKNQHKAKKQIKEAILKIRGGKRVTSQNAEENYEALTKYGRDLVAEVRSGKLDPVIGRDAEIRNVIRILSRKTKNNPVLIGEPGVGKTAIVEGLAQRIVRKDVPEGLKDKTIISLDIGSLIAGAKYRGEFEERLKAVLQEVKQSDGQILLFIDEIHTIVGAGKTDGAMDAGNMLKPMLARGELHCIGATTLDEYRQYIEKDAALERRFQKVLVPEPTVEDTVSILRGLKERFEIHHGVNIHDNALVAAASLSNRYITDRFLPDKAIDLVDEACATIRVEIDSMPSELDEVTRKVMQLEIEEAALKEEKDPASERRLEILQRELADYKEEANQMKSKWESEKNEISKIREVREQIDHLRHELEEAENNYDLNKAAELRHGRIPAVEKELLELEAENREKTAQEDRILQEEVTENEIAEIVGRWTGIPVTKLVEGEREKLLKLADVLHQKVIGQDDAVQLVSDAVLRARAGIKDPKRPIGSFIFLGPTGVGKTELAKALAFNMFDSEDHMIRIDMSEYMEKHSVSRLVGAPPGYIGYEEGGQLTEAVRRNPYSIVLLDEIEKAHPDVFNILLQVLDDGRITDSQGRLIDFKNTVIIMTSNIGSNLLLERTEEGEISPELESDVMQILQSEFKPEFLNRVDDIILFKPLTLADIKGIVEKLVEELQIRLADQEITITISDDAKAFIAEEAYDPVYGARPLKRYIVRHVETPLAREIVSGKIMPHSSVEIDLADKEFTFKVTE |
| 5878 | sp|P0A361|CSPA\_STRP8 | MAQGTVKWFNAEKGFGFISTENGQDVFAHFSAIQTNGFKTLEEGQKVAFDVEEGQRGPQAVNITKLA |
| 5879 | sp|P0A355|CSPA\_LISMO | MEQGTVKWFNAEKGFGFIERENGDDVFVHFSAIQGDGFKSLDEGQAVTFDVEEGQRGPQAANVQKA |
| 5880 | sp|O34209|CLPB2\_SYNE7 | MQPTDPNRFTDQAWDAIVESQTVARQLRQQQLEVEHVLLALLDQESGVAAEILAKAGVAVANLRQPLEDFARRQPRNASGTQLYLGRGLDRLLDLAERARELWQDEFIGVEHLLMGFVEDDRIGRRLAQGLKLDAKTLETTIQALRSPAADEAEAEESEPSYPFLSKYGRDLTALAEQEKLDPVIGRDLEIRRVIQVLSRRSKNNPVLIGEPGVGKTAIAEGLAQRIVAGEVPDSLKQRRLISLDMGSLIAGAKYRGEFEERLRAVLHEVTHSDGQMVLFIDELHTVVGAGAGQQGSAMDAGNLLKPMLARGELRCIGATTTDEYRRTIEKDPALERRFQQVYVSQPSVEDTIAILRGLKERYEGHHGVKITDGALMAAAKLSHRYISDRFLPDKAIDLIDEASAQLKMEITSKPSELEDLERRLLQLEMEQLSLSGENGQASVHSDRLQQIQTELQTLQEQQARLNQQWQQEKQLLEELGRLQEEEETLRQQVNQAEREHDLNKGAELKFGQLEALQQQRQAIEEQIQALHANGQTLLREQVEEADIAEIVARWTNIPVQRLLESERQKLLQLESFLHQRVIGQDEAVVAVAAAIRRARAGMKDPSRPIGSFLFLGPTGVGKTELARALANCLFDAEDALIRFDMSEYMEKNSISRLIGAPPGYIGYEEGGQLSEAIRRHPYAVVLFDEVEKAHPDVFNLLLQVLDDGRITDSQGRTIDFCNAVIVMTSNIGSQFILEMGEEEASLDAVELKVLGALRQHFRPEFLNRIDDTILFQPLSRGQLQQIVDIQLQRLKRLLAEQAIALNVTPAAAANLADRGYDPVYGARPLKRAIQRLIENPVASLILEQQFDAGDALIVDVDAEGQLQFQVSKPVTATVVEPDDSPAIAVEAIPS |
| 5881 | sp|P41018|CSPB\_SPOGL | IKWFNSEKGFGFIEVEGQDDVFVHFSAIQGEGFKCLEEGQAVSFEIVEGNRGPQAAN |
| 5882 | sp|Q0J6H8|CYL3\_ORYSJ | MMAHLAPLFLLLLLLLLPLHAAATPSAHPAYPNEPPSCAAAVPVPERREAHGGGRILDITHYYREDMPSWESDGGVGQFLWLPASMRNGSRANNSEMRLPTHTGTHVDAPGHVFQHYFDAGFDVDSLDLEVLNGLALLVDVPRDDNITAKMMESLHIPKGIQRVLFRTLNTDRQLMWKKEFDTSYVGFMEDGAQWLVDNTDIKLVGIDYLSVAAFDDLIPSHLVLLKNRDIILVEGLKLENIMPGIYSLHCLPLRLRGAEGSPIRCILIK |
| 5883 | sp|Q5HRN1|CTSR\_STAEQ | MHNMSDIIEQYIKRLFEEADEDVVEIQRAHIAQRFDCVPSQLNYVIKTRFTNEHGYEIESKRGGGGYIRITKIENKDATGYINHLLQLIGPSISQQQGYYVIDGLLDKGLINEREAKMIQTIIDRETLKMDVVARDIIRANILKRLLPVINYY |
| 5884 | sp|Q89AP5|DEGPL\_BUCBP | MKKITMIFNTVLIFLVFLLISGFSWHKSEIPTQEKFFESKSFSLSTVLEKVIPSVVSITVEGNVTQSTRIPRQFQSSFNKKVLDCFGISRCMTRQGKFHALGSGVILDSKNGYIVTNSHVVDRANKIQVQLSNGCKHEAVVIGKDARFDIAIIKLKKVKNLHEIKMSNSDILKVGDYVIAIGNPYGLGETVTSGIISALHRSGLNIENYENFIQTDAAINRGNSGGALVNLKGELIGINTAILTPDGGNIGIGFAIPINMVNNLTTQILEYGQVKQNELGIVGMELNSDLAKVLKINVHRGAFISQVLSKSPADVSGIKPGDVIILLNRKPIASFATLRAEIASFPIKTKIELGILRNKKVKFIIVELKQKIQSKIDSSVLCKLISGASLSNFRIHGQNKGICVNYVNNGTPAYRTGLRKNDIIFEVNKYQVSSLSNFQKVLKTKPLILVLHVKRGNDVLYLVTH |
| 5885 | sp|B5BLH8|DNAK\_SALPK | MGKIIGIDLGTTNSCVAIMDGTQARVLENAEGDRTTPSIIAYTQDGETLVGQPAKRQAVTNPQNTLFAIKRLIGRRFQDEEVQRDVSIMPYKIIGADNGDAWLDVKGQKMAPPQISAEVLKKMKKTAEDYLGEPVTEAVITVPAYFNDAQRQATKDAGRIAGLEVKRIINEPTAAALAYGLDKEVGNRTIAVYDLGGGTFDISIIEIDEVDGEKTFEVLATNGDTHLGGEDFDTRLINYLVDEFKKDQGIDLRNDPLAMQRLKEAAEKAKIELSSAQQTDVNLPYITADATGPKHMNIKVTRAKLESLVEDLVNRSIEPLKVALQDAGLSVSDINDVILVGGQTRMPMVQKKVAEFFGKEPRKDVNPDEAVAIGAAVQGGVLTGDVKDVLLLDVTPLSLGIETMGGVMTPLITKNTTIPTKHSQVFSTAEDNQSAVTIHVLQGERKRASDNKSLGQFNLDGINPAPRGMPQIEVTFDIDADGILHVSAKDKNSGKEQKITIKASSGLNEEEIQKMVRDAEANAESDRKFEELVQTRNQGDHLLHSTRKQVEEAGDKLPADDKTAIESALSALETALKGEDKAAIEAKMQELAQVSQKLMEIAQQQHAQQQAGSADASANNAKDDDVVDAEFEEVKDKK |
| 5886 | sp|Q07US6|DNAK\_RHOP5 | MGKVIGIDLGTTNSCVAVMDGKTPKVIENAEGMRTTPSIVAFSDDGERLVGQPAKRQAVTNPERTFFAVKRLIGRRYDDPMVEKDKKLVPYKIVKASNGDAWVEADANTYSPSQVSAFILQKMKETAEAHLGAKVDQAVITVPAYFNDAQRQATKDAGKIAGLEVLRIINEPTAAALAYGLDKAKAGVIAVYDLGGGTFDVSILEIGDGVFEVKSTNGDTFLGGEDFDMRLVSYLADEFQKEQGINLRNDKLALQRLKEAAEKAKIELSSTTQTEINLPFITADQTGPKHLTMKLTRAKFEALVDDLVQKTIEPCRKALKDAGLTAGEIGEVVLVGGMTRMPKVQEVVKQLFGKEPHKGVNPDEVVAIGAAIQAGVLQGDVKDVLLLDVTPLSLGIETLGGVFTRIIDRNTTIPTKKSQVFSTAEDNQNAVTIRVFQGEREMAADNKVLGQFDLMGIPPSPRGMPQIEVTFDIDANGIVNVSARDKATGKEQQIRIQASGGLSEADIDKMVKDAEINAAEDKKRREAVDAKNHADALVHSTEKALAEHGAKVEEPERRAIEDALSDLREALKGDDAEAIKTKTNTLAQASMKLGEAMYKQQAEADAAKDAAKDDVVDAEFTEVDDDKNTKKSA |
| 5887 | sp|Q49Y21|DNAJ\_STAS1 | MAKRDYYEVLGVSKSASKDEIKKAYRKLSKQYHPDINKEEGADEKFKEISEAYEVLSDENKRANYDQFGHDGPQGGFGGQGFGGQDFSGFGGGGFEDIFSSFFGGGRQQRDPNAPRKGDDLQYTMTVTFDEAVFGSEKEISIRKDVACHTCDGEGAKPGTKKKTCHYCNGSGHVSVEQNTILGRVRTEKVCPVCSGSGQEFEEPCPTCHGKGTENKNVKISVTIPEGVDNEQQIRLAGEGAPGENGGPQGDLYIVFRVKPSEKFERDGDDIYYSLDISIAQATLGDEVKVPTLKGSVMLTIPAGTQTEKQFRLKEKGIKNVHGYGYGDLFININVVTPTKISDRQKELLREFAEIDGEELSEQPSNFRDKAKRFFKGE |
| 5888 | sp|A4XYF6|DNAK\_PSEMY | MGKIIGIDLGTTNSCVSILENGNVKVLENAEGARTTPSIIAYANDGEILVGQSAKRQAVTNPHNTLYAVKRLIGRRFDEDVVQKDIQMVPYKIVKADNNDAWVEVNGQKMAPPQISAEVLKKMKKTAEDYLGEPVTEAVITVPAYFNDSQRQATKDAGRIAGLDVKRIINEPTAAALAYGMDKAKGDHTVIVYDLGGGTFDVSVIEIAEVDGEHQFEVLATNGDTFLGGEDFDIRLIDYLVDEFKKETGMNLKGDPLAMQRLKEAAEKAKIELSSSQQTDVNLPYITADATGPKHLNVKISRSKLESLVEDLVQRTIEPCRTALKDAGIDVSKIDDVILVGGQTRMPLVQKTVAEFFGKEPRKDVNPDEAVAMGAAIQGAVLAGDVKDVLLLDVSPLTLGIETMGGVMTALIEKNTTIPTKKSQVFSTADDNQSAVTIHVLQGERKQAAQNKSLGKFDLAEIPPAPRGVPQIEVTFDIDANGILHVSAKDKATGKQQSIVIKANSGLSEEEIQQMVRDAEANAEEDRKFEELATARNQGDQLVHATRKMLTEAGDKATADEKEAIEKAIGELEVAVKGDDKAAIEAKMNALSEATTPLAQKMYAEQPQGAAQPGAEESKDAADDVVDAEFEEVKENK |
| 5889 | sp|Q5E4T4|DNAK1\_ALIF1 | MGKIIGIDLGTTNSCVAVLDGDTPRILENAEGERTTASVIAYTDGETLVGQPAKRQAITNPQNTLFAIKRLIGRRFEDEEVQRDIEIMPYKIIKADNGDAWVEAKGQKMAAPQVSAEILKKMKKTAEDFLGEEVTGAVVTVPAYFNDAQRQATKDAGRIAGLDVKRIINEPTAAALAYGLDKKGGDRTIAVYDLGGGTFDISIIEIDNVDGEQTFEVLATNGDTHLGGEDFDNRLINFLVDEFKKEQGFDLKNDPLAMQRVKEAAEKAKIELSSAQQTDVNLPYVTADATGPKHMNIKVTRAKLESLVEDLVVRTLEPLKVALADADLTIDGITDVILVGGQTRMPMVQAKVAEFFGKEARRDVNPDEAVAMGAAVQGGVLAGDVKDVLLLDVTPLSFGIETMGGVMTKLIEKNTTIPTKADQTFSTAEDNQSAVTIHVLQGERKQASYNKSLGQFNLEGIQAAPRGMPQIEVTFDLDADGILNVSAKDKSTGKEQKITIQASGGLTDEEIEAMVQEAEANKDADKKFEELVTARNQADQMIHGTKKQIEEAGDDLPTDEKEKIEAAITALEGVKSGDDKEAIDAKTQELMQAAQKLMEIAQQKAQAQQGAQAGEQPKQEDDVVDAEFEEVK |
| 5890 | sp|B7J7X9|DNAK\_ACIF2 | MAKVIGIDLGTTNSCVAVMEGDKVKVIENSEGKRTTPSIVAITEEGEVLVGEAAKRQAVTNPENTVYEVKRLIGRKFDDAEVQKDLKHVPYKVIKADNGDAWVEVRDKKYSAQQISAFILQKMKKTAEDYLGEKVTEAVITVPAYFNDAQRQATKDAGRIAGLEVKRIINEPTAAALAFGEDKKPGDSKIAVYDLGGGTFDISIIEIAEMEGEHQFEVLSTNGDTFLGGGDFDSRVINYLADSFKAESGIDLRGDRLAMQRLKEAAEKAKIELSSAQQTDVNLPFITADQSGPKHLNMKLTRAKLESLVEDLIDRSMAPCRVAMKDANLATSRITDVILVGGQSRMPKVQEKVKDFFGQDPRKDVNPDEAVAIGAAIQGAVLSGEKKDVLLMDVTPLSLGIETLGGVMTKLIEKNTTIPTRKSQIFSTAEDNQSAVTVHVLQGERELARDNKSLARFDLTDIANAPRGMPQIEVTFDIDANGILHVSAKDNQTGKEQSIKITASSGLSEEEIKRMIQEAEAHAADDKKARALIEARNEADASVHGARKAVEEHAAAPEHDKTKVTEAISAVENAAKGEDVEAIKGAVATLMAAMSALLQSAAAGQAQAESGAGAQGNAKPDDVVDAEFEEVDKK |
| 5891 | sp|B1XRU1|DNAK\_POLNS | MGKIIGIDLGTTNSCVSVVENNAPKVVENAEGARTTPSIIAYVEDGEVLVGAPAKRQSVTNPKNTIYAVKRLMGRKFTDPEVQKDIGLMPYAIIQADNGDAWVEARDKKMAPQQVSAEILRKMKKTAEDYLGEEVTEAVITVPAYFNDSQRQATKDAGRIAGLDVKRIINEPTAAALAFGLDKQDKVDRKIAVYDLGGGTFDVSIIEIANVDGEKQFEVLSTNGDTFLGGEDFDQRIIDWIIAEFKKEQGVDLSKDVLALQRLKDAAEKAKIELSSAQQTEINLPYVTADAGGPKHLNLKLTRAKLESLVEELINRTAGPCLTAIKDAGVSVANIDDVILVGGQTRMPAVQDKVKEIFGKEPRKDVNPDEAVAVGAAIQGSVLSGDRKDVLLLDVTPLSLGIETLGGVMTKMIPKNTTIPTKHSQVYSTAEDNQPAVTIKCFQGEREMAAANKLLGEFNLEGIAPAQRGMPQIEVTFDIDANGILHVTAKDKNTGKENKITIKANSGLTEEEIQRMVKDAEANAAEDKKALELVTARNTADALAHSTKKALEEHGASLEATEKEAIEAALKDLDEAIKGSDKEAIDTKTEALGKASQKLGEKVMAAEQAKAGAAPGGAAPGTASDADVVDADFKEVDDKK |
| 5892 | sp|Q8GH79|DNAK\_CHLAB | MSEQKKSSKIIGIDLGTTNSCVSVMEGGQAKVIVSSEGTRTTPSIVAFKGNETLVGIPAKRQAVTNPAKTLASTKRFIGRKYSEVESEIKTVPYQVASGSNGDVVFPIDGKQFTPEEIGAQVLIKMKETAEAYLGEPVTEAVITVPAYFNDSQRASTKDAGRIAGLDVKRIIPEPTAAALAYGIDKAGDKKIAVFDLGGGTFDISILEIGDGVFEVLSTNGDTHLGGDDFDEVIIKWMIEEFQKQEGIDLSKDNMALQRLKDAAEKAKIELSGMSSTEINQPFITMDANGPKHLTLTLTRAHFEKLASNLIERTKAPCQKALADAKLAASDIDDVLLVGGMSRMPAVQEVVKSIFGKEPNKGVNPDEVVAIGAAIQGGVLGGEVKDVLLLDVIPLSLGIETLGGVMTPLVERNTTIPTQKKQIFSTAADNQPAVTIVVLQGERPMAKDNKEIGRFDLTDIPPAPRGHPQIEVTFDIDANGILHVSAKDAASGREQKIRIEASSGLKEDEIQRMINDAEKNKEEDKKRREASDVRNEADSMIFRAEKAISDYKENIPESLTKEIEERIEKVRSALKEDAPTEKIKEASDELSRHMQKIGEAMQSQSASAAANAQDGPNINTEDLKKHSFSTKPPTGNSSSSANNENIEEADVEIVDKPND |
| 5893 | sp|P57870|DNAK\_PASMU | MGKIIGIDLGTTNSCVAVMDGDKPRVIENAEGDRTTPSIIAYTQDNETLVGQPAKRQAVTNPKNTLFAIKRLIGRRFQDEEVQRDVSIMPFEIVAADNGDAWVGVKGEKMAPPQISAEVLKKMKKTAEDFLGEPVTEAVITVPAYFNDAQRQATKDAGRIAGLEVKRIINEPTAAALAYGLDKGQGNKTIAVYDLGGGTFDLSIIEIDEVGGEKTFEVLSTNGDTHLGGEDFDNRVINYLVDEFKKEQGVDLRNDPLAMQRLKEAGEKAKIELSSAQQTDVNLPYITADATGPKHLNIKLTRAKLESLVEDLVSRSLEPVKIALADAGLSVSQIDDVILVGGQTRMPLVQQKVEAFFGKAPRKDVNPDEAVAIGAAVQGGVLAGDVKDVLLLDVTPLSLGIETMGGVMTTLIEKNTTIPTKKSQVFSTAEDNQSAVTIHVLQGERKRAADNKSLGQFNLEGINPAPRGMPQIEVTFDIDADGIIHVSAKDKGTNKEQKITIKASSGLTDEEIQQMVRDAEANAEADRKFEELVQARNQADHLVHGTRKQLSEVGDKLSAEDKAPIEKAVADLEAAAKGEDKAEIETKVQALIQVSEKLMQAAQPQPEAQAQQAQSGKSNDDVVDAEFEEVKDNK |
| 5894 | sp|B8IHL2|DNAJ\_METNO | MSKRDYYEVLGVARTAGEGELKSAFRKLAMAYHPDRNPGDKEAEIKFKEVNEAYQTLSDGQKRAAYDRFGHAAFSQGAGGPGGPGFGADFGDFMSDIFDTFFGDARAGGAAGARGGRAGGRERGADLRYNLEITLEEAFTGKTETIRLPTSVTCEVCAGSGAKAGSKPRTCPTCGGYGRVRAAQGFFAIERTCPNCHGRGEIIDDPCTACGGAGRVTRERTLSVNVPAGVDDGLRIRLAGEGESGLRGGPAGDLYIFLSIKPHPFFQRDGADLFCRVPISMVTAALSGEITVPVIDGSHTTVRIPAGTQTNKQFRLKGKGMPVLRSRDVGDLYIQVFVETPQNLTKRQRELLQEFDQHGSQADNHPESAGFFSRVKEFFDGLSGSGRA |
| 5895 | sp|A1VFG6|DNAK\_DESVV | MGKIIGIDLGTTNSCVYVMEGKDPKCITNPEGGRTTPSVVAFTDKERLVGDIAKRQAVTNPERTVFAVKRLMGRRGDAPEVGRWKEHSPYRIVAGANGDAAVEVQGRPYSAPEISAMILGKLKADAEAYLGETVTEAVITVPAYFNDAQRQATKDAGRIAGLDVKRIINEPTAASLAYGFDRKANEKIAVFDLGGGTFDISILEVGDNVVEVRATNGDTFLGGEDFDQRIISYLVDEFRRENGGIDLARDRMALQRLKEAAEKAKKDLSTSMETEVNLPFITADQTGPKHLMMKLSRAKLEKLVEDLVERTVEPCRKALADAGLTAAQIDEVVLVGGMTRMPLVQKRVSEFFGKEPNRSVNPDEVVAMGAAIQGGILAGDVKDVLLLDVTPLSLGIETLGGVFTRLIERNTTIPTRKSQTFTTAADNQPSVSIHVLQGERPMASDNMTLGRFELTGIPPAMRGVPQIEVSFDIDANGIVNVAAKDLGTGKEQSIRITASSGLSEDEIQRLVKEAEAHADDDKKKQELIEARNQADGLIYGTEKSIRDLGDKLDAALKADIETKVTALRGLLESEDVDAIKKASDELAQASHKLAEQLYKQQAQAGGPEAGAQPEGDAGARKQDDDVVDADYTEVKK |
| 5896 | sp|A5I640|DNAK\_CLOBH | MAKIIGIDLGTTNSCVSVMEGGEPVVIPNAEGSRTTPSVVSFQANGERLIGQVAKRQAITNPEKTIISIKRYMGTDHKVNIDSTEYTPQQISAMVLQKLKADAEAYLGEKVTQAVITVPAYFNDSQRQATKDAGKIAGLEVLRIINEPTAASLAYGLDKMDTNEKILVYDLGGGTFDVSILELGDGVFEVKATNGDTKLGGDDFDQKLIDYIAETFKAENGIDLRNDKMAIQRLKEAAEKAKIELSSATQTNINLPFITADATGPKHIDMNLTRAKFNELTHDLVQRTLEPIKKSLEGSGYAMSDIDKIIMVGGSTRIPAVQDAVKDFTGKELSKGVNPDEVVAMGAAIQAGVLTGEVKDVLLLDVTPLTLGIETFGGVSTTLIEKNTTIPTRKSQVFSTAADGQTSVEIHVVQGERSMAADNKTLGRFTLSGIAPAPRGIPQIEVTFDIDANGIVNVSAKDKGTGKEANITITASTNLTDDEIEKAVNEAKKFEAEDKKRKESIEIKNNADQIVYQTEKTLTDLGDKVSAEDKAQIEEKVKAVKDVKDGEDLEAIKKATEDLTQTFYGISSKIYQQANPEGAQGAGFDPNNMGGANAGNASAGNDKKDDNVVDADFKVEDDK |
| 5897 | sp|Q0BLK4|DNAK\_FRATO | MGKIIGIDLGTTNSCLAIMDGKTAKVIENAEGHRTTPSVVAYTDSGEILVGQAAKRQAVTNPDNTFFAIKRLIGRKYDDKAVQEDIKKKVPYAVIKADNGDAWVATKEGKKMAPPQVSAEVLRKMKKTAEDYLGEPVTEAVITVPAYFNDSQRQATKDAGKIAGLEVKRIINEPTAAALAYGVDSKKGEQTVAVYDLGGGTFDISIIEIADVDGDNQIEVLSTNGDTFLGGEDFDLALMNYLIDEFKKEQGIDLHNDKLALQRVREAAEKAKVELSSAQQTDVNLPYITADATGPKHLNIKVTRAKFESLVSDLVMRSLEPCKKALEDAGLSKSDITEVLLVGGQTRMPLVQEKVKEFFGKEPRKDVNPDEAVAVGAAIQGGVLAGDVKDVLLLDVTPLSLGIETMGGVMTKLIERNTTIPTKKSQVFSTAEDNQPAVTIHVLQGEREMASANKSLGRFDLADIPPAPRGMPQIEVTFDIDANGILNVSAKDKATGKEQNIVIKSSSGLSEEDIEKMVQDAEANAEADKKFHDLVTARNTADNLIHSSRKAIQELGDKVTAAEKEKIEEACKELEAATKGDDKQAIEAKTKALEEAFAPIAQKAYAEQAQAAGAQGGAKAEEPKKEEDVVDADFEDVEDDKK |
| 5898 | sp|B0T138|DNAK\_CAUSK | MSKIIGIDLGTTNSCVAIMDGKTPKVIENAEGARTTPSVVAFLEDGERLVGQPAKRQAVTNPTNTLFAIKRLIGRNFADPVVAKDKAMVPYEIVKGPTGDAWVKAHGKDYSPQEVSAFILQKMKEAAESHLGEPVTKAVITVPAYFNDAQRQATKDAGKIAGLEVLRIINEPTAAALAYGLEMNEGKKIAVYDLGGGTFDVSVLEIGDGVFEVKSTNGDTFLGGEDFDLRIVDYLADEFKKEQGVDLRKDKLALQRLREEAEKAKKELSSTAQYEVNLPFISMNASGPLHLNIKLSRSKLEALVEDLITRTIGPCEQALKDAGLKKSDIDEVILVGGMSRMPKVQQAVQDFFGREPHKGVNPDEVVALGAAVQAGVLQGDVKDVLLLDVTPLTLGIETLGGVFTPLIERNTTIPTKRSQTFSTADDNQSAVTIRAFQGERPMAVDNKFLGQFDLQGIPPAPRGVPQIEVTFDIDANGIVNVHAKDKATNKEHSIRIQANGGLSDADIERMVKEAEANKASDEKKKALVEAKNQGEAIVHSTEKAFAEHGDKIGGAEKTAIETGLTDLKAALEGEDVEAIQAKTQALIQASMKLGEAMYGAQQGADGGEEAAHDDGVVDAEFEEVDDSKPSA |
| 5899 | sp|Q5NFG7|DNAK\_FRATT | MGKIIGIDLGTTNSCLAIMDGKTAKVIENAEGHRTTPSVVAYTDSGEILVGQAAKRQAVTNPDNTFFAIKRLIGRKYDDKAVQEDIKKKVPYAVIKADNGDAWVATKEGKKMAPPQVSAEVLRKMKKTAEDYLGEPVTEAVITVPAYFNDSQRQATKDAGKIAGLEVKRIINEPTAAALAYGVDSKKGEQTVAVYDLGGGTFDISIIEIADVDGDNQIEVLSTNGDTFLGGEDFDLALMNYLIDEFKKEQGIDLHNDKLALQRVREAAEKAKVELSSAQQTDVNLPYITADATGPKHLNIKVTRAKFESLVSDLVMRSLEPCKKALEDAGLSKSDITEVLLVGGQTRMPLVQEKVKEFFGKEPRKDVNPDEAVAVGAAIQGGVLAGDVKDILLLDVTPLSLGIETMGGVMTKLIERNTTIPTKKSQVFSTAEDNQPAVTIHVLQGEREMASANKSLGRFDLADIPPAPRGMPQIEVTFDIDANGILNVSAKDKATGKEQNIVIKSSSGLSEEDIEKMVQDAEANAEADKKFHDLVTARNTADNLIHSSRKAIQELGDKVTAAEKEKIEEACKELEAATKGDDKQAIESKTKALEEAFAPIAQKAYAEQAQAAVAQGGAKAEEPKKEEDVVDADFEDVEDDKK |
| 5900 | sp|Q28VY3|DNAK\_JANSC | MAKVIGIDLGTTNSCVAIMDGSQPRVIENAEGARTTPSIVAFTDDERLAGQSAKRQAVTNPENTIFGVKRLIGRRINDEHLEKDKKNLPFEIVDGGNGDAWVKAKGETYSPSQISAFILQKMKETAESYLGEDVTQAVITVPAYFNDAQRQATKDAGKIAGLEVLRIINEPTAAALAYGLDKKETRTIAVYDLGGGTFDVTILEIDDGLFEVKSTNGDTFLGGEDFDMRIVNYLAEEFKKENSVDLTQDKMALQRLKEAAEKAKIELSSASQTEINQPFISMGSNGQPLHMVMKLTRAKLESLVGDLIKASIKPCAAALKDAGLSKGDIDEVVLVGGMTRMPKVIDEVTKFFGKEPHKGVNPDEVVAMGAAIQAGVLQGDVKDVVLLDVTPLSMGIETLGGVFTRLIDRNTTIPTKKSQIFSTADDNQSAVTLRVFQGEREMAADNKILGQFNLEGIPPAPRGVPQIEVTFDIDANGIVSVGAKDKGTGKEQQITIQASGGLSDDDIEAMVREAEENAEADKDRKDLVETRNQAESLVHGTEKSLEEHGEKVDPSTVEAIELALGALKETLETDDTAKIKGGIQNVTEAAMRLGEAIYKAEADKAEAAQDGAPEEEERGVDEDIVDADFEDLDDDRKRG |
| 5901 | sp|Q5P9E0|DNAJ\_ANAMM | MSGNDYYEILEVSRNASAEEIKKSYRKMVFKYHPDKNPGDKKAEEKFKKISEAYEVLSNPEKRAAYDRYGHSTFTSGGASGFDFTSGFSTDFSDIFQDFFGGGFGKSQRASSREHLRGSDLRYDVEVSLEDAFKGIKVPISYVTNVKCSSCSGIGSEGAVNSVKCGNCNGAGSVRTRKGFLTIEEVCNVCNGEGEVIKNKCRRCGGSGRVRNEVSLLVTVPKGIETGNKVRVNGKGEAGFRGAQEGDLYVYIRVKEHKFFTRRSSDLHCSVPIKMTIAALGGEIEMPSIDGSWTKLKIPEGTQSGDQIRMRGKGMPEVNSKDRRGDMYVHVTVETPVKLTKQQVDLLKKFEEESSANCSPKYQGFFQKIKDIWRDISSG |
| 5902 | sp|A8EUC7|DNAJ\_ARCB4 | MTEIDYYELLEISRNSDKSTIKKAYRQMAMKYHPDKNPGDNEAEEKFKAINEAYQVLSDDEKKSIYDRYGKAGLEGHGQRGGGFSGGFDDLGSIFEEMFGFGTSSRSRRERKTYNYNLDVTIEVKLEFNEAVFGCNKEINYKYKTACKPCEGTGAKDGKLSTCPTCKGQGQVHSRQGFMTFAQTCPRCGGTGQATTDSCKSCKGTGYEEVKDNFKVDIPEGVNDGMRIRVSNKGNIAPNGQRGDLYLQVSVKEDSHFVRHDDDIYFEAPIFFTQVALGGTIKVPSLRGELELEIPKGAKDKQQFTFKGEGVKSVQGYGKGDLIIQIKIEYPKALNNEQKELLEKLQDSFGIESKPHETTFEGMFDKVKKWFS |
| 5903 | sp|A6LM32|DNAK\_THEM4 | MSSKKEYVVGIDLGTTNSVIAWMKPDSSVEVIPNAEGARTTPSIVAFSKSGEILVGEPAKRQLILNSDRTIKSIKRKMGTDYKVKIDDKEYSPQEISAFILKKLKKDAEEYLGGEIKRAVITCPAYFNDAQRQATKEAGIIAGFDVLRIINEPTAAALAYGLDRKGKEEKVLVYDLGGGTFDVSILEIGDGVIQVIATSGNNHLGGDDFDQRIIDWLAEEFKKQHGVDLKEDKQALQRLRDAAEKAKIELSSKLETDISLPYITATAEGPLHLEMRLTRSMFESLTRDLVEMTRKPIEQALSDAKLKPEDIDEIILVGGMTRVPMIQNFIKEIFGKEPNKRVNPDEAVAMGAAIQAAILAGEEGAQGKDIVLVDVTPLTLGIEVKGGLFEPIIPRNSTIPIKKSKVFTTAEDGQTEVEIRVFQGERPIAADNILLGSFRLVGIPPAPRGVPQIEVTFDIDSDGIVHVSAKDLGTGKEQTMVVSGRHKLSEEDINKIIEDAKKYEEQDKRRKEEVELKNKADDLAYYIDKSLKEYGDKIPQDEKQKLETLVNDLRDAINKNDIARIKMLFDELEREKTKIGEYIYKQNQGNQQAENQ |
| 5904 | sp|Q04LY0|DNAK\_STRP2 | MSKIIGIDLGTTNSAVAVLEGTESKIIANPEGNRTTPSVVSFKNGEIIVGDAAKRQAVTNPDTVISIKSKMGTSEKVSANGKEYTPQEISAMILQYLKGYAEDYLGEKVTKAVITVPAYFNDAQRQATKDAGKIAGLEVERIVNEPTAAALAYGLDKTDKEEKILVFDLGGGTFDVSILELGDGVFDVLSTAGDNKLGGDDFDQKIIDHLVAEFKKENGIDLSTDKMAMQRLKDAAEKAKKDLSGVTSTQISLPFITAGEAGPLHLEMTLTRAKFDDLTRDLVERTKVPVRQALSDAGLSLSEIDEVILVGGSTRIPAVVEAVKAETGKEPNKSVNPDEVVAMGAAIQGGVITGDVKDVVLLDVTPLSLGIETMGGVFTKLIDRNTTIPTSKSQVFSTAADNQPAVDIHVLQGERPMAADNKTLGRFQLTDIPAAPRGIPQIEVTFDIDKNGIVSVKAKDLGTQKEQTIVIQSNSGLTDEEIDRMMKDAEANAEADKKRKEEVDLRNEVDQAIFATEKTIKETEGKGFDAERDAAQAALDDLKKAQEDNNLDDMKAKLEALNEKAQGLAVKLYEQAAAAQQAQEGAEGAQATGNAGDDVVDGEFTEK |
| 5905 | sp|Q2LUH6|DNAK\_SYNAS | MGRIIGIDLGTTNSCVAVMEGGDPVVIANQEGNRTTPSIVAFTESGERLVGQVAKRQAVTNSENTVYAVKRLIGRKYNSKEVQYDKSISPFKISEAPNGDAQIEVRGRAYSPAEISSMVLVKMKQTAEDYLGEKITDAVITVPAYFNDSQRQATKDAGKIAGLNVLRIINEPTAAALAYGLDKKKDEKIAVFDLGGGTFDISILELGEGVFEVKSTNGDTHLGGEDFDQRIIDYLVSEFKKDQGIDIRSDKMALQRLKEAAEKAKMELSSSMETDINLPFITADASGPKHMNIKLTRARMEALVEELIDRLEGPCRTALKDAGLSPKDIDEVILVGGMTRMPRVQQKVKEIFDREPHKGVNPDEVVAVGAAIQGGVLGGEVKDVLLLDVTPLSLGIETLGGVMTKLIEKNTTIPTRKSQIFSTAADNQPAVSIHVLQGERSMAGDNRTLGRFDLVGIPPAPRGIPQIEVTFDIDANGIVHVSAKDLGTGKEQSIKITASSGLSETEIEKLVREAESHGEEDRKKKELVEARNSADAMAYGVEKNIKEFGDKVDAAEKARIEDAIAKVRKAVEGDDINAIRSAQDELTTASHKLAEAMYAKTSQAGAGPQPGAGPGTGGQGPGKKDEDVVDADFEEVK |
| 5906 | sp|B7VJW9|DNAK\_VIBTL | MGRIIGIDLGTTNSCVAVLDGDKPRVLENAEGERTTASVIAYTEGETLVGQPAKRQAVTNPQNTLYAIKRLIGRRFEDEEVQRDIEIMPFNIVKADNGDAWVEAQGQKMAAPQVSAEVLKKMKKTAEDFLGEEVTGAVVTVPAYFNDAQRQATKDAGRIAGLDVKRIINEPTAAALAYGLDKQGGDRTIAVYDLGGGTFDISIIEIDEVEGEKTFEVLSTNGDTHLGGEDFDNRMINYLVDEFKKEQGIDLKADPLAMQRVKEAAEKAKIELSSTTQTDVNLPYVTADATGPKHMNIKVTRAKLESLVEDLVQRSLEPLKVALADADLSVGEITDVILVGGQTRMPMVQAKVTEFFGKEPRKDVNPDEAVAMGAAVQGGVLAGEVKDVLLLDVTPLSFGIETMGGVMTKLIEKNTTIPTKADQVFSTAEDNQSAVTIHVLQGERKQATYNKSLGQFNLEGIQPAPRGMPQVEVTFDLDADGILNVSAKDKATGKEQKITIQASGGLSEEEIEAMVQEAEANKEADKKFEELVTARNQADQMIHGTKKQVEEAGEALPADEKAKIEAAIEALESVKSGDDKEAIDAKVQELMQAAQKLMEIAQQKAQAEQAGADAGEQPKQDDDVVDAEFEEVKEDKK |
| 5907 | sp|P64409|DNAK\_TROWT | MSRAVGIDLGTTNSVVAVLEGGEPNVIANAEGLRTTPSVVAFSRDGEVLVGDTAKRQAVTNVDNTISSVKRHIGTDWTKQIGDKKYTPQEISARILSKLKRDAEQYLGEKVTDAVITVPAYFNDAERQATKEAGEIAGLNVLRIINEPTAAALAYGLDKGKEDELILVFDLGGGTFDVSLLEVGKDDDFSTIQVRATSGDNRLGGDDWDQRIIDWLVDDFRKTTGVDLSSDKIAMQRLREASEQAKKELSSATSANIQLPYISLTESGPVNMDTTITRAQFEKMTEDLLERTKNPFRDVLKEAGVSVDKISHVVLVGGSTRMPAVSDLVKRETGKEPNKGVNPDEVVAVGAALQAGVLRGERKDVLLIDVTPLSLGIETKGGIMTKLIERNTAIPTKRSEVFTTAEDNQPSVSIQVFQGERELTQDNKNLGTFELTGIAPAPRGLPQIEVTFDIDANGIVHVSAKDKGTGKEQSMTITGGSGLSQDEIDRMIKEAEEHAAEDKNRRARVDQKNQAEQMVYTAEKLIGDNAKVNEEAKKELQADIDSLKSAIQADDHDLIKAGTDKLLASQQKFAQSVYETTKDDPKEQVVDAEVVDEDSGSSK |
| 5908 | sp|Q3K3T2|DNAK\_STRA1 | MSKIIGIDLGTTNSAVAVLEGTESKIIANPEGNRTTPSVVSFKNGEIIVGDAAKRQAVTNPDTVISIKSKMGTSEKVSANGKEYTPQEISAMILQYLKGYAEDYLGEKVEKAVITVPAYFNDAQRQATKDAGKIAGLEVERIVNEPTAAALAYGMDKTDKDEKILVFDLGGGTFDVSILELGDGVFDVLATAGDNKLGGDDFDQKIIDFLVEEFKKENGIDLSQDKMALQRLKDAAEKAKKDLSGVTQTQISLPFITAGSAGPLHLEMSLSRAKFDDLTRDLVERTKTPVRQALSDAGLSLSEIDEVILVGGSTRIPAVVEAVKAETGKEPNKSVNPDEVVAMGAAIQGGVITGDVKDVVLLDVTPLSLGIETMGGVFTKLIDRNTTIPTSKSQVFSTAADNQPAVDIHVLQGERPMAADNKTLGRFQLTDIPAAPRGIPQIEVTFDIDKNGIVSVKAKDLGTQKEQHIVIQSNSGLTDEEIDKMMKDAEANAEADAKRKEEVDLKNEVDQAIFATEKTIKETEGKGFDTERDAAQSALDELKKAQESGNLDDMKAKLEALNEKAQALAVKLYEQAAAAQQAAQGAEGAQSADSSSKGDDVVDGEFTEK |
| 5909 | sp|Q10R18|DRE2E\_ORYSJ | MESYGRKRAWKKGPTRGKGGPQNAACEYRGVRQRTWGKWVAEIREPNKRTRLWLGSFATAEEAALAYDEAARRLYGPDAFLNLPHLRAASAAAAHQRLRWLPASAAAAAARGGAAAVPAYGLLNLNAQHNVHVIHQRLQELKNSSSSPTKPPPRTPTRANPPPPPLPTSSPCSTVTNSVGSAALPPPMSCFQALEQAMAATAAMESAPCDDDAAVVGFGADKPQLDLKEFLQQIGVLKADDDGATGKNGAVHGDDGELADAFGFGGSGEFDWDALAADMSDIAGGHGGALGANGGFQMDDLHEVEQFGGCMPIPIWDI |
| 5910 | sp|E9PVA8|GCN1\_MOUSE | MAADTQVSETLKRFAVKVTTASVKERREILSELGRCIAGKDLPEGAVKGLCKLFCLTLHRYRDAASRRALQAAIQQLAEAQPEATAKNLLHSLQSSGVGSKACVPSKSSGSAALLALTWTCLLVRIVFPLKAKRQGDIWNKLVEVQCLLLLEVLGGSHKHAVDGAVKKLTKLWKENPGLVEQYFSAILSLEPSQNYAAMLGLLVQFCTNHKEMDAVSQHKSTLLEFYVKNILMSKAKPPKYLLDNCAPLLRFMSHSEFKDLILPTIQKSLLRSPENVIETISSLLASVTLDLSQYALDIVKGLANQLKSNSPRLMDEAVLALRNLARQCSDSSATEALTKHLFAILGGSEGKLTIIAQKMSVLSGIGSLSHHVVSGPSGQVLNGCVAELFIPFLQQEVHEGTLVHAVSILALWCNRFTTEVPKKLTDWFKKVFSLKTSTSAVRHAYLQCMLASFRGDTLLQALDFLPLLMQTVEKAASQGTQVPTVTEGVAAALLLSKLSVADAQAEAKLSGFWQLVVDEKRQTFTSEKFLLLASEDALCTVLRLTERLFLDHPHRLTNSKVQQYYRVLVAVLLSRTWHVRRQAQQTVRKLLSSLGGVKLANGLLDELKTVLNSHKVLPLEALVTDAGEVTEMGKTYVPPRVLQEALCVISGVPGLKGDIPSTEQLAQEMLIISHHPSLVAVQSGLWPALLTRMKIDPDAFITRHLDQIIPRITTQSPLNQSSMNAMGSLSVLSPDRVLPQLISTITASVQNPALCLVTREEFSIMQTPAGELFDKSIIQSAQQDSIKKANMKRENKAYSFKEQIIEMELKEEIKKKKGIKEEVQLTSKQKEMLQAQMDKEAQIRRRLQELDGELEAALGLLDAIMARNPCGLIQYIPVLVDAFLPLLKSPLAAPRVKGPFLSLAACVMPPRLKTLGTLVSHVTLRLLKPECALDKSWCQEELPVAVRRAVSLLHTHTIPSRVGKGEPDAAPLSAPAFSLVFPMLKMVLTEMPYHSEEEEEQMAQILQILTVHAQLRASPDTPPERVDENGPELLPRVAMLRLLTWVIGTGSPRLQVLASDTLTALCASSSGEDGCAFAEQEEVDVLLAALQSPCASVRETALRGLMELRLVLPSPDTDEKSGLSLLRRLWVIKFDKEDEIRKLAERLWSTMGLDLQSDLCSLLIDDVIYHEAAVRQAGAEALSQAVARYQRQAAEVMGRLMEIYQEKLYRPPPVLDALGRVISESPPDQWEARCGLALALNKLSQYLDSSQVKPLFQFFVPDALNDRNPDVRKCMLDAALATLNAHGKENVNSLLPVFEEFLKDAPNDASYDAVRQSVVVLMGSLAKHLDKSDPKVKPIVAKLIAALSTPSQQVQESVASCLPPLVPAVKEDAGGMIQRLMQQLLESDKYAERKGAAYGLAGLVKGLGILSLKQQEMMAALTDAIQDKKNFRRREGALFAFEMLCTMLGKLFEPYVVHVLPHLLLCFGDGNQYVREAADDCAKAVMSNLSAHGVKLVLPSLLAALEEESWRTKAGSVELLGAMAYCAPKQLSSCLPNIVPKLTEVLTDSHVKVQKAGQQALRQIGSVIRNPEILAIAPVLLDALTDPSRKTQKCLQTLLDTKFVHFIDAPSLALIMPIVQRAFQDRSTDTRKMAAQIIGNMYSLTDQKDLAPYLPSVTPGLKASLLDPVPEVRTVSAKALGAMVKGMGESCFEDLLPWLMETLTYEQSSVDRSGAAQGLAEVMAGLGVEKLEKLMPEIVATASKVDIAPHVRDGYIMMFNYLPITFGDKFTPYVGPIIPCILKALADENEFVRDTALRAGQRVISMYAETAIALLLPQLEQGLFDDLWRIRFSSVQLLGDLLFHISGVTGKMTTETASEDDNFGTAQSNKAIITALGVDRRNRVLAGLYMGRSDTQLVVRQASLHVWKIVVSNTPRTLREILPTLFGLLLGFLASTCADKRTIAARTLGDLVRKLGEKILPEIIPILEEGLRSQKSDERQGVCIGLSEIMKSTSRDAVLFFSESLVPTARKALCDPLEEVREAAAKTFEQLHSTIGHQALEDILPFLLKQLDDEEVSEFALDGLKQVMAVKSRVVLPYLVPKLTTPPVNTRVLAFLSSVAGDALTRHLGVILPAVMLALKEKLGTPDEQLEMANCQAVILSVEDDTGHRIIIEDLLEATRSPEVGMRQAAAIILNMYCSRSKADYSSHLRSLVSGLIRLFNDSSPVVLEESWDALNAITKKLDAGNQLALIEELHKEIRFIGNECKGEHVPGFCLPKRGVTSILPVLREGVLTGSPEQKEEAAKGLGLVIRLTSADALRPSVVSITGPLIRILGDRFNWTVKAALLETLSLLLGKVGIALKPFLPQLQTTFTKALQDSNRGVRLKAADALGKLISIHVKVDPLFTELLNGIRAVEDPGIRDTMLQALRFVIQGAGSKVDAAIRKNLVSLLLSMLGHDEDNTRISTAGCLGELCAFLTDEELNTVLQQCLLADVSGIDWMVRHGRSLALSVAVNVAPSRLCAGRYSNEVQDMILSNAVADRIPIAMSGIRGMGFLMKYHIETGSGQLPPRLSSLLIKCLQNPCSDIRLVAEKMIWWANKEPRPPLEPQTIKPILKALLDNTKDKNTVVRAYSDQAIVNLLKMRRGEELLQSLSKILDVASLEALNECSRRSLRKLACQADSVEQVDDTILT |
| 5911 | sp|Q9S785|GPDH2\_ARATH | MMDHLVETNSVPSRLVEERLDEIRRVMGKADDDPLRIVGVGAGAWGSVFIAMLQENYGKFRGKVSVRIWRRGGRAIDKATAEHLFEVINSREELLRRLIRRCAYLKYVEARLGDRVLYADEILKDGFCLNMIETPLCPLKVVTNLQEAVWDADIVINGLPSTETFQVFNEISKYWKERVNAPVIISLAKGVEAEFEPHPRIVTPTQMIHRATGIPLENILYLGGPNIASEVYNKEYANARICGSEKWRKPLGKFLRQSHFIVWDNSDLITHEVMGGLKNVYAIGAGMVATLTKESATSKSVYFAHCTSEMIFITHLLAKEPEKLAGPLLADTYVTLLKGRNAWYGQKLAKGELSLEMGDSIKGKGMIQGVSAVKAFFELLNQSSLSLQHPEEGKPVTPAELCPILKMLYRILITREFSCEAILEALRDETMNDPRELIEIAHSHLFFQPWLLGQKP |
| 5912 | sp|Q47HK1|GRPE\_DECAR | MSNPENAQDAMLGNEPAVEPVVEPTAEQHTDTLPSIEEQFRALELKAAEHYDAWLRAKAEGENIRRRAQDDISKAHKFAVEKFAGELLAVKDSLEAALAVQEQTVDSFKSGVELTLKQLVSAFDKNALNEVNPAGEKFDPHKHQAIGMVDSEQEANTVVTVLQKGYMIADRVLRPALVMVAKGK |
| 5913 | sp|Q9LCQ6|GRPE\_BRECH | MSEEKLTQDPTAEEEQTETADQQESADVNWEQEAAHWKAQAEEHQNRMLRTMADMENLRRRVRKEQEDLAKYASQKVVEELLPILDNFERALAADKESMTVESLLTGVDMVYRQMVQVFDKEGLVAIAAKGQPFDPHVHQAVMQTQDPAFESGVVVEELQKGYMFKDRVVRPAMVKVNE |
| 5914 | sp|Q0SRE2|GRPE\_CLOPS | MVDNKDFNEELKESIQEELDNETKSENPNIDEEVEEVSEDIKADEKVIDFEELKALKEENTMFKSKTKKLENELEALKDRLLRISSEYENYRKRTDKEKERIYTDACEDVLIKMLPVLDNLERALAVDGTVEDLKKGVEMTVRQFEDALEKLQVEEISTENGFDPELHQAMMVVEQEGSEPNQVAQVFQKGYKRGDKVIRHSMVTVTK |
| 5915 | sp|B9KCH1|GRPE\_CAMLR | MSEEKQNGQIQEETVENSENQNNELEKLQAEYNELKDTYLRANAEFENIKKRMEKEKISATIYANESFAKDLLDVVDALEAAVNVEANDEISLKIKEGVQNTLDLLLKKLEKHMVKVIDAEGEFDPNLHEAMFHVESADHESNHIVQLLQKGYMMNDRIIRSAKVSVAK |
| 5916 | sp|B3QPW9|GRPE\_CHLP8 | MTKKHHKEQEEIQETIKTEAAEENVGDETVAIPAATESDIEAEIAARDAEIQKLRDEVMRRAAEFENFRKQKEREAAQSGKRMLENTVRDLLPLLDDLKRLMEHIPAELQEMAEAKPFVEGVELIRKNFKSLLESKGVKEIEALGKVLDVNFHEAITQIDVPDTEPDTIVQEYQTGYTLGDRVIRHAKVIVAK |
| 5917 | sp|Q6A661|GRPE\_CUTAK | MTDKNVNPDDDQADENRDDNVDERFADIVGDVDIDADQSATDSPAPEELSRESQLEALLAERTEDLQRLQAEYVNYKRRVDRDRALSRQSGVDKVITDLMPVLDSIAMARQHGEVEGGFKLVVDELEKVANNHGLTSFGEVGDVFDPNLHEALMQMPMEGVSVTSVSQVMQPGYKLGDRVLRPARVAVSDPDPNATSADESSQADGESAQADEDDETPRNE |
| 5918 | sp|C4ZYN1|GRPE\_ECOBW | MSSKEQKTPEGQAPEEIIMDQHEEIEAVEPEASAEQVDPRDEKVANLEAQLAEAQTRERDGILRVKAEMENLRRRTELDIEKAHKFALEKFINELLPVIDSLDRALEVADKANPDMSAMVEGIELTLKSMLDVVRKFGVEVIAETNVPLDPNVHQAIAMVESDDVAPGNVLGIMQKGYTLNGRTIRAAMVTVAKAKA |
| 5919 | sp|B2HZZ8|GRPE\_ACIBC | MANEQNEQAQDIQNEQVEQSNEQTQAEGVEQANDVTVESLQAQITKLEENLKLEKARTANAVYEAQKSVERIQRESEKHKETVLEKFAKELLDSVDNLERAIQAAGDEETPVLEGVKLTLKSLLTTLEKFGVVEADTQNGFNADLHQAVGIDPNAKANEIGTVLQKGYTLNGRLLRPAMVMVGQ |
| 5920 | sp|Q7X2H8|CHOX\_ARTGO | MHIDNIENLSDREFDYIVVGGGSAGAAVAARLSEDPAVSVALVEAGPDDRGVPEVLQLDRWMELLESGYDWDYPIEPQENGNSFMRHARAKVMGGCSSHNSCIAFWAPREDLDEWEAKYGATGWNAEAAWPLYKRLETNEDAGPDAPHHGDSGPVHLMNVPPKDPTGVALLDACEQAGIPRAKFNTGTTVVNGANFFQINRRADGTRSSSSVSYIHPIVEQENFTLLTGLRARQLVFDADRRCTGVDIVDSAFGHTHRLTARNEVVLSTGAIDTPKLLMLSGIGPAAHLAEHGIEVLVDSPGVGEHLQDHPEGVVQFEAKQPMVAESTQWWEIGIFTPTEDGLDRPDLMMHYGSVPFDMNTLRHGYPTTENGFSLTPNVTHARSRGTVRLRSRDFRDKPMVDPRYFTDPEGHDMRVMVAGIRKAREIAAQPAMAEWTGRELSPGVEAQTDEELQDYIRKTHNTVYHPVGTVRMGAVEDEMSPLDPELRVKGVTGLRVADASVMPEHVTVNPNITVMMIGERCADLIRSARAGETTTADAELSAALA |
| 5921 | sp|Q9HVN5|CLPB\_PSEAE | MRIDRLTSKLQLALSDAQSLAVGHDHPAIEPVHLLSALLEQQGGSIKPLLMQVGFDIAALRSGLNKELDALPKIQSPTGDVNLSQDLARLLNQADRLAQQKGDQFISSELVLLAAMDENTRLGKLLLGQGVSRKALENAVANLRGGEAVNDPNVEESRQALDKYTVDMTKRAEEGKLDPVIGRDDEIRRTIQVLQRRTKNNPVLIGEPGVGKTAIVEGLAQRIINGEVPDGLKDKRLLALDMGALIAGAKFRGEFEERLKAVLNELGKQEGRVILFIDELHTMVGAGKAEGAMDAGNMLKPALARGELHCVGATTLDEYRQYIEKDAALERRFQKVLVDEPSEEDTIAILRGLKERYEVHHGVSITDGAIIAAAKLSHRYITDRQLPDKAIDLIDEAASRIRMEIDSKPEELDRLDRRLIQLKIEREALKKEDDEATRKRLAKLEEDIVKLEREYADLEEIWKSEKAEVQGSAQIQQKIEQAKQEMEAARRKGDLESMARIQYQTIPDLERSLQMVDQHGKTENQLLRNKVTDEEIAEVVSKWTGIPVSKMLEGEREKLLRMEQELHRRVIGQDEAVVAVSNAVRRSRAGLADPNRPSGSFLFLGPTGVGKTELCKALAEFLFDTEEALVRIDMSEFMEKHSVARLIGAPPGYVGFEEGGYLTEAIRRKPYSVVLLDEVEKAHPDVFNILLQVLEDGRLTDSHGRTVDFRNTVVVMTSNLGSAQIQELAGDREAQRAAVMDAVNAHFRPEFINRIDEVVVFEPLAREQIAGIAEIQLGRLRKRLAERELSLELSQEALDKLIAVGFDPVYGARPLKRAIQRWIENPLAQLILAGKFAPGASISAKVEGDEIVFA |
| 5922 | sp|G2K265|CLPB\_LISM4 | MDLQKFTQQVQQTIADAQNLAIASEHQEIDVAHVFKVLLTESDFAKRVYDVAEVDTDALQKVIENTLEKIPVVSGSGVNYGQAMSQALFQLMRDAEKEQQQLEDDFVSTEHLILAVMDQKSNPITAELKNQHKAKKQIKEAILKIRGGKRVTSQNAEENYEALTKYGRDLVAEVRSGKLDPVIGRDAEIRNVIRILSRKTKNNPVLIGEPGVGKTAIVEGLAQRIVRKDVPEGLKDKTIISLDIGSLIAGAKYRGEFEERLKAVLQEVKQSDGQILLFIDEIHTIVGAGKTDGAMDAGNMLKPMLARGELHCIGATTLDEYRQYIEKDAALERRFQKVLVPEPTVEDTVSILRGLKERFEIHHGVNIHDNALVAAASLSNRYITDRFLPDKAIDLVDEACATIRVEIDSMPSELDEVTRKVMQLEIEEAALKEEKDPASERRLEILQRELADYKEEANQMKSKWESEKNEISKIREVREQIDHLRHELEEAENNYDLNKAAELRHGRIPAVEKELLELEAENREKTAQEDRILQEEVTENEIAEIVGRWTGIPVTKLVEGEREKLLKLADVLHQKVIGQDDAVQLVSDAVLRARAGIKDPKRPIGSFIFLGPTGVGKTELAKALAFNMFDSEDHMIRIDMSEYMEKHSVSRLVGAPPGYIGYEEGGQLTEAVRRNPYSIVLLDEIEKAHPDVFNILLQVLDDGRITDSQGRLIDFKNTVIIMTSNIGSNLLLERTEEGEISPELESDVMQILQSEFKPEFLNRVDDIILFKPLTLADIKGIVEKLVEELQIRLADQEITITISDDAKAFIAEEAYDPVYGARPLKRYIVRHVETPLAREIVSGKIMPHSSVEIDLADKEFTFKVTE |
| 5923 | sp|Q65N62|CSHA\_BACLD | MTITFQDFQLSSDLTKAIKRMGFEEATPIQAQTIPLGLANKDVIGQAQTGTGKTAAFGIPLVEKINPESPNIQAIVIAPTRELAIQVSEELYKIGQDKRARVLPIYGGQDIGRQIRALKKNPHIIVGTPGRLLDHINRRTMRLQTVNTVVLDEADEMLNMGFIEDIESILSNVPAEHQTLLFSATMPAPIKRIAERFMTNPEHVKVKAKEMTVSNIQQFYLEVHERKKFDTLTRLLDIQSPELAIVFGRTKRRVDELTEALNLRGYTAEGIHGDLTQAKRMVALRKFKQGAIEVLVATDVAARGLDISGVTHVYNFDVPQDPESYVHRIGRTGRAGKTGMAMTFITPREKDMLRAIEQTTKRKMDRMKAPTLDEAIEGQQQVTVDRIRTIIEENNLNFYMTAAAELLEDHDSVTVVAAAIKMMTKEPDNTPVRLTEEAPLRTKRNKNHHHRSSKRRDGGGYRGKNNRSSYDKKRSSNDRRQKKSYNS |
| 5924 | sp|P81621|CS21\_STRTR | TDSIKETIKETVNHQAEWPY |
| 5925 | sp|Q8Y8N0|CSHA\_LISMO | MTKFSEFGLDEKIVKSVNRMGFEEATPIQEKTIPLGLEGKDLIGQAQTGTGKTAAFGLPMIHKIDQKSNNVQALIIAPTRELAIQVSEELYKLSYDKHVRVLAVYGGSDISRQIRSLKKNPQIVVGTPGRILDHINRRTLKLDHVETLVLDEADEMLNMGFIDDIETILKEVPAERQTLLFSATMPDPIRRIGERFMHSPELIRIKAKEMTALLIEQFFVKVHEKEKFDVLSRLLDVQAPELAIVFGRTKRRVDELSRALDMRGYVAEGIHGDLTQAKRMSVLRKFKEGKIDVLVATDVAARGLDISGVTHVYNYDIPQDPESYVHRIGRTGRAGKEGMAITFVQPREMGYLRIVEETTKKRMQPLQAPTWDEAFAGQLRVATEKIQEAITEENLADYKTFANELLEKYDATDIAAAMLKMLAKEPDKTPVHITEERPLPSRGGGGYKGKNGKGGKGGGYRGGSGKGGSYRDRNNSGKGRRSGGGSGGGSGSGGGGNRDRRGGGEQRSGGNKGNYSQKSK |
| 5926 | sp|P31168|COR47\_ARATH | MAEEYKNNVPEHETPTVATEESPATTTEVTDRGLFDFLGKKEEEVKPQETTTLESEFDHKAQISEPELAAEHEEVKENKITLLEELQEKTEEDEENKPSVIEKLHRSNSSSSSSSDEEGEEKKEKKKKIVEGEEDKKGLVEKIKEKLPGHHDKTAEDDVPVSTTIPVPVSESVVEHDHPEEEKKGLVEKIKEKLPGHHDEKAEDSPAVTSTPLVVTEHPVEPTTELPVEHPEEKKGILEKIKEKLPGYHAKTTEEEVKKEKESDD |
| 5927 | sp|Q99W81|CTSR\_STAAM | MHNMSDIIEQYIKRLFEESNEDVVEIQRANIAQRFDCVPSQLNYVIKTRFTNEHGYEIESKRGGGGYIRITKIENKDATGYINHLLQLIGPSISQQQAYYIIDGLLDKMLINEREAKMIQAVIDRETLSMDMVSRDIIRANILKRLLPVINYY |
| 5928 | sp|P35638|DDIT3\_HUMAN | MAAESLPFSFGTLSSWELEAWYEDLQEVLSSDENGGTYVSPPGNEEEESKIFTTLDPASLAWLTEEEPEPAEVTSTSQSPHSPDSSQSSLAQEEEEEDQGRTRKRKQSGHSPARAGKQRMKEKEQENERKVAQLAEENERLKQEIERLTREVEATRRALIDRMVNLHQA |
| 5929 | sp|Q59X49|DDR48\_CANAL | MVFGFGKDDDKDKNDRRDNDSYGSSNRRNNDDSYGSSSFGSSNDDDNSYGSSNKRSNDSYGSSNTDSYGSSNRRDNDSYGSSNNDSYGSSKTDSYGSSNRSGNDSYGSSNNDSYGSSNRKGNDSYGSSNTDSYGSSNTDSYGSSNTDSYGSSNKRGNDSYGSSNDDSYGSSNDDSYGSSNRRGNDSYGSSNDDSYGSSNRRGNSDSYGSSDY |
| 5930 | sp|Q52894|DEGPL\_RHIME | MLKTTTVAGLAAVLLTTGLPAEVAQSFAEAVRVQAPAVPSFANVVDAVSPAVVSVRVQARERVSDDESNFTFDFGGRGFEDLPEDHPLRRFFREFAPRENDRADRWRDRRGPRGEGRLRPRAQGSGFFITEDGYLVTNNHVVSDGSAFTVIMNDGTELDAKLVGKDSRTDLAVLKVDDKRKFTYVSFADDEKVRVGDWVVAVGNPFGLGGTVTAGIISARGRDIGSGPYDDYLQVDAAVNRGNSGGPTFNLSGEVVGINTAIFSPSGGNVGIAFAIPASVAKDVVDSLIKDGTVSRGWLGVQIQPVTKDIAESLGLSEANGALVVEPQAGSPGEKAGIKNGDVVTALNGEPVKDPRDLARRVAALRPGSTAEVTLWRSGKSETVNLEIGTLPSDAKEPAPATGEAQPDEGQAGEEALADLGLTVTPSEDGKGVTIASVDPDSDAGDRGLKEGEKIVSVNNQEVKSADDVLKVINNAKKDGRSKALFQIEAQEGSRFVALPITQG |
| 5931 | sp|C1CYP4|DDROC\_DEIDV | MKLHERLRELRSERGLRLKDVAEVAQISVPYLSDLERGRTNPSLETLQTLAGAYNITVHDLLEGVEFYGASTEGALPKGLSDLIADPTLGPQITPDWVRTLSRIELRGKRPRDKQDWYEIYLHLKRILS |
| 5932 | sp|A4SQ25|DNAK\_AERS4 | MGKIIGIDLGTTNSCVAILDGDTARVIENAEGDRTTPSIIAYADDGEILVGQPAKRQAITNPKNTLFAIKRLIGRRFEDEEVQRDLKIMPYAIAKADNGDAWVEVKGKKMAPPQISAEVLKKMKKTAEDYLGEPVTEAVITVPAYFNDAQRQATKDAGRIAGLDVKRIINEPTAAAFAYGVNKVKGERKVAVYDLGGGTFDISIIEIDEVEGETTFEVLATNGNTHLGGEDFDNRVINYLVDEFKREQGIDLRNDQLALQRLKDAAEKAKIELSSAQQTDVNLPYITADATGPKHMNIKVTRAKLESLVEDMVKDSLEPVRTALKDSGLAVGEIDDVILVGGQTRMPMVQKTVAEFFGKEPRKDVNPDEAVAMGAAIQGAVLSGEKTDVLLLDVTPLSLGIETMGSVMTALIEKNTTIPTKKSQVFSTAEDNQSAVTIHVLQGERKRASDNKSLGQFNLEGIRPAQRGLPQIEVTFDIDANGILHVSAKDKETNKEQKITIQASSGLSDEEIERMVREAEANAAEDKKFEELVQTRNQADGLVHSVRKQITEAGDALPADDKTKIETALSELEAVIKGDDKAVIEAKQQALLEASQKLMEIAQQQSQAQGAGADANQSSSSSKADDDVVDAEFEEVKDDKK |
| 5933 | sp|Q1GKS3|DNAK\_RUEST | MSKVIGIDLGTTNSCVAIMDGSQPRVIENAEGARTTPSIVAFTDEERLVGQPAKRQAVTNPDNTIFGVKRLIGRRFDDSDLAKDKKNLPFAVINGGNGDAWVEAKSEKYSPSQISAFILGKMKETAESYLGEEVTQAVITVPAYFNDAQRQATKDAGKIAGLEVLRIINEPTAAALAYGLDKAETQTIAVYDLGGGTFDVTILEIDDGLFEVKSTNGDTFLGGEDFDMRIVNYLADEFKKEHGVDLTKDKMALQRLKEAAEKAKIELSSSSQTEINQPFISMDPSSGQPLHLVIKLTRAKLESLVGDLIKNSMKPCAAALKDAGLSASDIDEVVLVGGMTRMPKVIEEVTKFFGKEPHKGVNPDEVVAMGAAIQAGVLQGDVKDVVLLDVTPLSLGIETLGGVFTRLIDRNTTIPTKKSQVFSTAEDNQNAVTIRVFQGEREMAADNKMLGQFNLEDIPPAPRGMPQIEVTFDIDANGIVSVSAKDKGTGKEQKITIQASGGLSDEDIEKMVKDAEDNAEADKERRELIEARNQAESLIHSTEKSIEDHGDKVDPSTIEAIELAIAALKDDLEGDKANAEKIKSGIQNVTEAAMRLGEAIYKAQAEEGGADEPSAADEDASAGPGDDDIVDAEFEDLDDNKR |
| 5934 | sp|Q9KWS7|DNAK\_PARTM | MSKIIGIDLGTTNSCVAVLEGGEPKVIPNPEGSRTTPSVVAFKNGERLVAKRQAITNPNTIISIKRHMGTDYKVEIEGKKYTPQEISAIILQYLKSYAEDYLGEPVTRAVITVPAYFNDAQRQATKDAGRIAGLQVERIINEPTAAALAYGLDKEEDQTILVYDLGGGTFDVSILELGDGVFEVKATAGDNHLGGDDFDQVIIDYLVEQFKQEHGIDLSKDKMALQRLKDAAEKAKKELSGVTQTQISLPFISANETGPLHIETTLTRAKFEELSAHLVERTMGPVRQALQDAGLTPADIDKVILVGGSTRIPAVQEAIKRELGKEPHKGVNPDEVVAIGAAIQGGVIAGEVKDVVLLDVTPLSLGIETMGGVFTKLIERNTTIPTSKSQIFTTAADNQTTVDIHVLQGERPMAADNKTLGRFQLTDIPPAPRGVPQIEVTFDIDANGIVHVRAKDLGTNKEQSITIKSSSGLSEEEIQRMIKEAEENAEADRKRKEAAELRNEADHLVFTTEKTLKEVEGKVDEAEVKKAREAKDALKAALEKNDIDDIRKKKEALQEIVQQLSVKLYEQAAKQAQAQQQTGAGDAAKKDDNVVDAEFEEVKDDNK |
| 5935 | sp|Q7NAU6|DNAK\_MYCGA | MSNNNGLIIGIDLGTTNSCVSVMEGAQKVVIENPEGKRTTPSVVSYKNGEIIVGDAAKRQMLTNPNTIVSIKRLMGTSKKVKINDKGVEKELTPEEVSASILSYLKDYAEKKTGQKISRAVITVPAYFNDAERQATKTAGKIAGLTVERIINEPTAAALAYGIDKGHREMKVLVYDLGGGTFDVSLLDIADGTFEVMATAGDNRLGGDDWDNKIIEWIIAEIKKDHPSLDLKSDKMAMQRLKEAAERAKIELSAQLETLISLPFIAVTPEGPVNAELTLSRAKFEELTKDLLERTRNPIADVLKEAKVDPSQVDEILLVGGSTRMPAVQKLVESMIPNKAPNRTINPDEVVAIGAAVQGGVLRGDVKDILLLDVTPLTLAIETLGGVATPIIKRNTTIPVSKSQIFSTAQDNQESVDVSIYQGERPMARENKSLGTFSLGGIQPAPKGKPQIEITFNIDANGILNVKAKDLTTGKENSITISNSSELDENEIQRMIRDAEANKERDAIVKQRIEMRYEGEGIVNTINEILGSKEAEALPAQEKASLTKIVDGINGALKAEKWDELKEQIDGFKKWRDDMSKKYGGGEAPAEPK |
| 5936 | sp|P63968|DNAJ\_NEIMA | MSNQDFYATLGVARTATDDEIKKAYRKLAMKYHPDRNPDNKEAEEKFKEVQKAYETLSDKEKRAMYDQYGHAAFEGGGQGGFGGFGGFGGAQGFDFGDIFSQMFGGGSGRAQPDYQGEDVQVGIEITLEEAAKGVKKRINIPTYEACDVCNGSGAKPGTSPETCPTCKGSGTVHIQQAIFRMQQTCPTCHGAGKHIKEPCVKCRGAGRNKAVKTVEVNIPAGIDDGQRIRLSGEGGPGMHGAPAGDLYVTVRIRAHKIFQRDGLDLHCELPISFATAALGGELEVPTLDGKVKLTVPKETQTGRRMRVKGKGVKSLRSSATGDLYCHIVVETPVNLTDRQKELLEEFERISTGLENQTPRKKSFLDKLRDLFD |
| 5937 | sp|C1FVU0|DNAK\_CLOBJ | MAKIIGIDLGTTNSCVSVMEGGEPVVIPNAEGSRTTPSVVSFQANGERLIGQVAKRQAITNPEKTIISIKRYMGTDHKVNIDSTEYTPQQISAMVLQKLKADAEAYLGEKVTQAVITVPAYFNDSQRQATKDAGKIAGLEVLRIINEPTAASLAYGLDKMDTNEKILVYDLGGGTFDVSILELGDGVFEVKATNGDTKLGGDDFDQKLIDYIAETFKAENGIDLRNDKMAIQRLKEAAEKAKIELSSATQTNINLPFITADATGPKHIDMNLTRAKFNELTHDLVQRTLEPIKKSLEGSGYAMSDIDKIIMVGGSTRIPAVQDAVKDFTGKELSKGVNPDEVVAMGAAIQAGVLTGEVKDVLLLDVTPLTLGIETFGGVSTTLIEKNTTIPTRKSQVFSTAADGQTSVEIHVVQGERSMAADNKTLGRFTLSGIAPAPRGIPQIEVTFDIDANGIVNVSAKDKGTGKEANITITASTNLTDDEIEKAVNEAKKFEAEDKKRKESIEIKNNADQIVYQTEKTLTDLGDKVSAEDKAQIEEKVKAVKDVKDGEDLEAIKKATEDLTQTFYGISSKIYQQANPEGAQGAGFDPNNMGGANAGNASAGNDKKDDNVVDADFKVEDDK |
| 5938 | sp|Q5HAY1|DNAK\_EHRRW | MILCRGLFMAVIGIDLGTTNSCVAVMEGGDAKAIENSEGARTTPSIVAFTDSEVLVGDPAKRQATTNAKNTIYASKRLIGRRYQDTRDIKTSYDIVSAKNGDAWIKVRDKDYSPSQIGALILEKMKETAERHLGCKVEKAVITVPAYFDDAQRQATKDAGRIAGLDVIRIINEPTAAALAYGLNKSDKQKVIAVYDLGGGTFDVSILEIADGVFEVKSTNGDTMLGGEDFDHAIMEYLMDDFKKSTGIDLHSDAMAMQRIKEAAEKAKIELSSRMETDINLPFLSSDSTGPKHLSLKLTRATFENLVSDLVKRTIEPCKKALKDAGISADKIDEVVLVGGMTRVPKIIQTVKEFFGKEPHKGVNPDEVVAIGAAIQGGILAGDVRDVLLLDVTPLSLGIETLGGVFTPLIERNTTIPTKKSQVFSTAEDGQTAVTIKVFQGERKMANDNKLLGQFSLEGIPPAPRGMPQIEVTFDIDANGIVHVSAKDKASGKEQAIRIQSSGGLTDDEIQNMIKEAESKAEEDEKRKKFVEVKNNAENLVHSTEKSLKEHGDKISNADKLDIENAIRDLKDCISKDNIEDTDTMQNKLDHLMKVSMKLGEALYSNTNNATAGDNNTTDTGSSSNSDGSKVVDSDYQEIDKKDGK |
| 5939 | sp|Q68XI3|DNAJ\_RICTY | MSQDYYQVLGVSKTASQADIKKAYLKLAKQYHPDTTNAHDAEKKFKEINAAYDVLKDEQKRAAYDRFGHDAFQNQQARGGGNNSGFHHDINDIFGDFFSDFMGSGRRKQTSSKIRGSDLKYDLTIKLEEAFHGIEKNISFSSEVKCDACHGTGSEKGETVTTCDSCGGVGVTRIQQGFFTLEQTCHKCQGNGQIIKNPCKKCHGMGRYHKQRNLSINIPAGVENGTRIRHSGEGEAGIRGGNNGDLYVDIAIKPHDIYKIDGANLHCKLPISFVHAALGGEIEVPVIEGGKVKLTIPAGTQNGDQLRLRSKGMSKIRSTIRGDMLTHIHVEVPKNLSKRQRELLEEFKKESINEKENDSSFFNKMKSMWS |
| 5940 | sp|P0A6Y8|DNAK\_ECOLI | MGKIIGIDLGTTNSCVAIMDGTTPRVLENAEGDRTTPSIIAYTQDGETLVGQPAKRQAVTNPQNTLFAIKRLIGRRFQDEEVQRDVSIMPFKIIAADNGDAWVEVKGQKMAPPQISAEVLKKMKKTAEDYLGEPVTEAVITVPAYFNDAQRQATKDAGRIAGLEVKRIINEPTAAALAYGLDKGTGNRTIAVYDLGGGTFDISIIEIDEVDGEKTFEVLATNGDTHLGGEDFDSRLINYLVEEFKKDQGIDLRNDPLAMQRLKEAAEKAKIELSSAQQTDVNLPYITADATGPKHMNIKVTRAKLESLVEDLVNRSIEPLKVALQDAGLSVSDIDDVILVGGQTRMPMVQKKVAEFFGKEPRKDVNPDEAVAIGAAVQGGVLTGDVKDVLLLDVTPLSLGIETMGGVMTTLIAKNTTIPTKHSQVFSTAEDNQSAVTIHVLQGERKRAADNKSLGQFNLDGINPAPRGMPQIEVTFDIDADGILHVSAKDKNSGKEQKITIKASSGLNEDEIQKMVRDAEANAEADRKFEELVQTRNQGDHLLHSTRKQVEEAGDKLPADDKTAIESALTALETALKGEDKAAIEAKMQELAQVSQKLMEIAQQQHAQQQTAGADASANNAKDDDVVDAEFEEVKDKK |
| 5941 | sp|Q5LED4|DNAJ\_BACFN | MAEKRDYYEVLEVTKESTVEEIKKAYRKKAIQYHPDKNPGDKEAEEKFKEAAEAYDVLSNPDKRARYDQFGHAGMSGAAGNGGPFGGFSGGMSMDDIFSMFGDIFGGHSGGGFGGGFGGFGGFGGGGSQQRKFRGSDLRVKVKLNLKEISTGVEKKFKLKKYVPCSHCHGTGAEGNSGSETCPTCKGSGSVIRNQQTILGTMQTRTTCPTCNGEGKIIKDKCKVCGGEGIEYGEEVVTVKIPAGVAEGMQLSMGGKGNAGKHNGIPGDLLILVEEEPHPELIRDENDLVYNLLLSFPTAAIGGAVEIPTIDGKVKVKIEAGTQPGKVLRLRGKGLPSVNGYGTGDLLVNVSVYVPETLSKEEKSTLEKLEESKNFKPSTSIKEKIFKKFRSLFD |
| 5942 | sp|B7MNM2|DNAJ\_ECO81 | MAKQDYYEILGVSKTAEEREIKKAYKRLAMKYHPDRNQGDKEAEAKFKEIKEAYEVLTDSQKRAAYDQYGHAAFEQGGMGGGGFGGGADFSDIFGDVFGDIFGGGRGRQRAARGADLRYNMELTLEEAVRGVTKEIRIPTLEECDVCHGSGAKPGTQPQTCPTCHGSGQVQMRQGFFAVQQTCPHCQGRGTLIKDPCNKCHGHGRVERSKTLSVKIPAGVDTGDRIRLAGEGEAGEHGAPAGDLYVQVQVKQHPIFEREGNNLYCEVPINFAMAALGGEIEVPTLDGRVKLKVPGETQTGKLFRMRGKGVKSVRGGAQGDLLCRVVVETPVGLNEKQKQLLQELQESFGGPTGEHNSPRSKSFFDGVKKFFDDLTR |
| 5943 | sp|A7ZHA5|DNAJ\_ECO24 | MAKQDYYEILGVSKTAEEREIKKAYKRLAMKYHPDRNQGDKEAEAKFKEIKEAYEVLTDSQKRAAYDQYGHAAFEQGGMGGGGFGGGADFSDIFGDVFGDIFGGGRGRQRAARGADLRYNMELTLEEAVRGVTKEIRIPTLEECDVCHGSGAKPGTQPQTCPTCHGSGQVQMRQGFFAVQQTCPHCQGRGTLIKDPCNKCHGHGRVERSKTLSVKIPAGVDTGDRIRLAGEGEAGEHGAPAGDLYVQVQVKQHPIFEREGNNLYCEVPINFAMAALGGEIEVPTLDGRVKLKVPGETQTGKLFRMRGKGVKSVRGGAQGDLLCRVVVETPVGLNEKQKQLLQELQESFGGPTGEHNSPRSKSFFDGVKKFFDDLTR |
| 5944 | sp|Q493S6|DNAJ\_BLOPB | MAKSDYYEILGISKNADEREIKKSYKRLAMKFHPDRNPGNTTAETKFKEIKEAYEVLSNSEKRAAYDQYGHAAFESGSMGATSNSGGADFSDIFGDVFGDIFGGNRRSRAGRGSDLRYNIELSLEDAVRGIIKEICIPTLSTCEKCRGTGARSNAAIITCMTCHGQGQVQIRQGFFSVQQSCPTCHGHGKIIKEACNKCHGNGRVERSKTLSVKIPSGVNTGDRIRLSGEGESGKNGAPSGDLYVQIQIRKHPIFDREEKNLYCEVPISFSMAALGGEIEVPTLDGRVKLKIPPETQTGKLFRMRGKGVKSVRSGGNGDLLCRVVVETPVKLNDIQKRLLQDLSDSFEGPHGNRNSPRSKSFFDGVKKFFDDLTR |
| 5945 | sp|Q038N3|DNAK\_LACP3 | MSKVIGIDLGTTNSAVAVLEGNQPKIITNPEGNRTTPSVVAFKDGEIQVGEVAKRQAITNPDTIVSIKRHMGEANYKVKVGDKEYTPQEISAMILQYIKKFSEDYLGEPVKDAVITVPAYFNDSQRQATKDAGKIAGLNVQRIINEPTASALAYGLDKGDKDEKILVYDLGGGTFDVSILQLGDGVFEVLSTNGDTHLGGDDFDNKIIDWLVAEFKKDNNIDLSKDKMAMQRLKDAAEKAKKDLSGVTQTQISLPFISAGPNGPLHLERTLTRAQFDEMTADLVAKTKIPVENALKDAKLTNADIDKVILNGGSTRTPAVQEAVKQWTGKDPDHSINPDEAVALGAAIQGGVISGDVKDVVLLDVTPLSLGIETMGGVFTKLIDRNTTIPTSKSQVFSTAADSQPAVDIHVLQGERPMAADDKTLGRFELTDIPPAPRGVPQIEVKFDIDKNGIVQVSAKDLGTGKSQNITIKSSSGLSDEEIERMKKEAEENADADEKRKEEVDLKNDVDQLLFQTDKTLKDVDGKVPEEDIKKVKDAQEALKKAQQENNLDDMKQKRDDLSKLVQDMTVKLYENAQKNQQAQGGPASGAATDAGAAQGSDDKKSDDDTINGDYKDVSDDDKK |
| 5946 | sp|A5FZ18|DNAJ\_ACICJ | MAKTDYYELLGVSRGASADELKKAYRKLAMQYHPDRNPGDAAAEQKFKDINEAYDVLKDEQKRAAYDRFGHAAFENGGGPGAGGFGGGFGGFGGFEGGIGDIFEQMFGEAMGGRRGGRTERAGADLRAAVEIDLTQAFTGTKTEIRVPTRVSCDACSGTGSADKSAANDTCPTCGGAGRVRAQQGFFVVERTCPTCGGAGRTVRNPCRVCSGAGTVPRERTLSVTIPAGVEDGTRIRLSGEGEAGGRGASPGDLYVHVSIRPHPIFQRDGANVFCRVPLRMAQAALGGEIEVPAIDGTRARVKIPAGTQTGDQFRLRGKGFSVLRSTARGDMYIQVAVETPQNLTKRQRELLEEFEREAGNTASGSPEHEGFFAKVKEFFDGL |
| 5947 | sp|Q88VM0|DNAK\_LACPL | MASNKIIGIDLGTTNSAVAVLEGNEPKIITTPEGGRTVPSVVAFKDGETQVGEVAKRQAITNPNTVASIKRHMGEAGYKVSIEGKDYTPQQISAMILQYIKGFAEDYLGDTVEKAVVTVPAYFNDAQRQATKDAGKIAGLNIERIINEPTAAALAYGLDKTDKDEKILVYDLGGGTFDVSILELGDGVFEVLSTNGDTHLGGDDFDQKIIDWLVDGFKADNGVDLSKDKMALQRLKDAAEKAKKDLSGVSEAQISLPFISAGASGPLHLETTLTRAKFNELTADLVEKTRIPVENALKDADLSASDLDVVILNGGSTRIPAVQEAVEKWTGKESNHSINPDEAVALGAAVQGGVITGDVKDVVLLDVTPLSLGIETMGGVFTKLIDRNTTIPTSKSQVFSTAADNQPAVDIHVLQGERPMAADNKTLGRFQLTDIPAAPRGVPQIEVKFDIDKNGIVNVSAKDMGTNKEQKITIKSSSGLSDDEIDQMVKEAKENEEADKKRKEEVDLKNEVDQLIFTTDKTLKDLEGKVSEDEVKKAKDARDALKKAQDDNNIDEMKAKKDDLNKIVQDLSVKLYQQAQEAQGAQGGADSNAAGNANSAKGSDDNTVDGDFEDLDKDKDKK |
| 5948 | sp|C4L424|DNAJ\_EXISA | MAKRDYYEVLGLDKSASAQDIKRAYRKLARQYHPDINQEADAADKFKEIGEAYEVLSDEQKRAQYDRFGFEGANQFGGGGDFQGGFGDIFDMFFGGGGRRQDPNAPRRGEDYQYVVDLDFMESVTGKTETIELEIEVECDTCMGSGAKPGTKPETCNRCGGSGVETVEQNTILGRMVNQRPCSQCHGSGKTIKEKCPTCHGSGHVKKKQTVEVKIPAGIDNGQQIRLSGKGGPGVNGGPAGDLYVVVRVRAHEIFERVDQHIAMDMPITFAQAALGAEIEVPTVHGNVSLKVPAGTQTGSKFRLRGKGMPSVRGGANGDQYVSVIVMTPKNMTDRQKELLREFEEISGESGVEEEHGMFQKMKKFFSH |
| 5949 | sp|P0A3J3|DNAK\_STRA5 | MSKIIGIDLGTTNSAVAVLEGTESKIIANPEGNRTTPSVVSFKNGEIIVGDAAKRQAVTNPDTVISIKSKMGTSEKVSANGKEYTPQEISAMILQYLKGYAEDYLGEKVEKAVITVPAYFNDAQRQATKDAGKIAGLEVERIVNEPTAAALAYGMDKTDKDEKILVFDLGGGTFDVSILELGDGVFDVLATAGDNKLGGDDFDQKIIDFLVEEFKKENGIDLSQDKMALQRLKDAAEKAKKDLSGVTQTQISLPFITAGSAGPLHLEMSLSRAKFDDLTRDLVERTKTPVRQALSDAGLSLSEIDEVILVGGSTRIPAVVEAVKAETGKEPNKSVNPDEVVAMGAAIQGGVITGDVKDVVLLDVTPLSLGIETMGGVFTKLIDRNTTIPTSKSQVFSTAADNQPAVDIHVLQGERPMAADNKTLGRFQLTDIPAAPRGIPQIEVTFDIDKNGIVSVKAKDLGTQKEQHIVIQSNSGLTDEEIDKMMKDAEANAEADAKRKEEVDLKNEVDQAIFATEKTIKETEGKGFDTERDAAQSALDELKKAQESGNLDDMKAKLEALNEKAQALAVKLYEQAAAAQQAAQGAEGAQSADSSSKGDDVVDGEFTEK |
| 5950 | sp|C1CJ06|DNAK\_STRZP | MSKIIGIDLGTTNSAVAVLEGTESKIIANPEGNRTTPSVVSFKNGEIIVGDAAKRQAVTNPDTVISIKSKMGTSEKVSANGKEYTPQEISAMILQYLKGYAEDYLGEKVTKAVITVPAYFNDAQRQATKDAGKIAGLEVERIVNEPTAAALAYGLDKTDKEEKILVFDLGGGTFDVSILELGDGVFDVLSTAGDNKLGGDDFDQKIIDHLVAEFKKENGIDLSTDKMAMQRLKDAAEKAKKDLSGVTSTQISLPFITAGEAGPLHLEMTLTRAKFDDLTRDLVERTKVPVRQALSDAGLSLSEIDEVILVGGSTRIPAVVEAVKAETGKEPNKSVNPDEVVAMGAAIQGGVITGDVKDVVLLDVTPLSLGIETMGGVFTKLIDRNTTIPTSKSQVFSTAADNQPAVDIHVLQGERPMAADNKTLGRFQLTDIPAAPRGIPQIEVTFDIDKNGIVSVKAKDLGTQKEQTIVIQSNSGLTDEEIDRMMKDAEANAEADKKRKEEVDLRNEVDQAIFATEKTIKETEGKGFDAERDAAQAALDDLKKAQEDNNLDDMKAKLEALNEKAQGLAVKLYEQAAAAQQAQEGAEGAQATGNAGDDVVDGEFTEK |
| 5951 | sp|P12950|DHN1\_MAIZE | MEYGQQGQRGHGRTGHVDQYGNPVGGVEHGTGGMRHGTGTTGGMGQLGEHGGAGMGGGQFQPAREEHKTGGILHRSGSSSSSSSEDDGMGGRRKKGIKEKIKEKLPGGHKDDQHATATTGGAYGQQGHTGSAYGQQGHTGGAYATGTEGTGEKKGIMDKIKEKLPGQH |
| 5952 | sp|B1H009|DNAK\_UNCTG | MAKIIGIDLGTSNSAAAVMEGGKTTLIPSAEGTTLGGKAFPSYVAFTKDGQLLVGEPARRQAVTNPEGTINAFKRKMGTNYKYKVNGKEFTPQQLSAFILQKIKKDSEAYLGETITKAVITVPAYFNDDQRQATKDAGAIAGLEVVRLVNEPTAASLAYGIDKVGKEQKILVFDLGGGTLDVTIMEMGAEGTFEVLSTSGDTQLGGTDMDNALIDYIAEDFKKTNGIDLRNDKMAVQRLKEAAEKAKIELSNVLETDINLPFITADASGPKHLAMKFTRATLENLVRHIVERCKASIDQAVKDAKLTAETVTKIILVGGPTRMPIVQKFAEDHVGKKAERGIDPMECVCFGAAVQAAVLTGDVKDILLLDVTPLTLGLETMGGVRTSLIDRNTTVPAKRSQVFSTAADNQPSVEINVLQGERAMAKDNLSLGRFMLDGIPPAPRGVPQIEVTFDIDANGILHVSAKDKGTGKEQSIKISSSTKLSKDDIDKYVKEAEQYASEDVKRKEEIEVRNEADNLIYSVEKSLKDHGDKVSADERLIIEQSLTAAKDALKGSDVATIKSAKEALTTASHKLAEVVYKASQVQDTQGAAQGQSQGNPQQTADNRGKVVDAEIVDENKE |
| 5953 | sp|P99110|DNAK\_STAAN | MSKIIGIDLGTTNSCVTVLEGDEPKVIQNPEGSRTTPSVVAFKNGETQVGEVAKRQAITNPNTVQSIKRHMGTDYKVDIEGKSYTPQEISAMILQNLKNTAESYLGEKVDKAVITVPAYFNDAERQATKDAGKIAGLEVERIINEPTAAALAYGLDKTDKDEKVLVFDLGGGTFDVSILELGDGVFEVLSTAGDNKLGGDDFDQVIIDYLVAEFKKENGVDLSQDKMALQRLKDAAEKAKKDLSGVSQTQISLPFISAGENGPLHLEVNLTRSKFEELSDSLIRRTMEPTRQAMKDAGLTNSDIDEVILVGGSTRIPAVQEAVKKEIGKEPNKGVNPDEVVAMGAAIQGGVITGDVKDVVLLDVTPLSLGIEILGGRMNTLIERNTTIPTSKSQIYSTAVDNQPSVDVHVLQGERPMAADNKTLGRFQLTDIPPAERGKPQIEVTFDIDKNGIVNVTAKDLGTNKEQRITIQSSSSLSDEEIDRMVKDAEVNAEADKKRREEVDLRNEADSLVFQVEKTLTDLGENIGEEDKKSAEEKKDALKTALEGQDIEDIKSKKEELEKVIQELSAKVYEQAAQQQQQAQGANAGQNNDSTVEDAEFKEVKDDDKK |
| 5954 | sp|Q945P1|EULS3\_ARATH | MEHHHQHHRHHQRDDGEDDRQSFGVPPPHVDAPPQPHGLYQSQPHFDPYAPTPQAPAPYRSETQFEPHAPPPYRSEPYFETPAPPPSFGHVSHVGHQSPNESYPPEHHRYGGYQQPSNSLLESHGDHSGVTHVAHHSSNQPQSSSGVYHKPDENRLPDNLAGLAGRATVKVYSKAEPNYNLTIRDGKVILAPADPSDEAQHWYKDEKYSTKVKDADGHPCFALVNKATGEAMKHSVGATHPVHLIRYVPDKLDESVLWTESKDFGDGYRTIRMVNNTRLNVDAYHGDSKSGGVRDGTTIVLWDWNKGDNQLWKIFPF |
| 5955 | sp|Q69SP5|EREC1\_ORYSJ | MTPAPAAASYRALVALLLVAVAVADDGSTLLEIKKSFRNVDNVLYDWAGGDYCSWRGVLCDNVTFAVAALNLSGLNLGGEISPAVGRLKGIVSIDLKSNGLSGQIPDEIGDCSSLKTLDLSFNSLDGDIPFSVSKLKHIESLILKNNQLIGVIPSTLSQLPNLKILDLAQNKLSGEIPRLIYWNEVLQYLGLRGNNLEGSISPDICQLTGLWYFDVKNNSLTGPIPETIGNCTSFQVLDLSYNKLSGSIPFNIGFLQVATLSLQGNMFTGPIPSVIGLMQALAVLDLSYNQLSGPIPSILGNLTYTEKLYMQGNKLTGPIPPELGNMSTLHYLELNDNQLSGFIPPEFGKLTGLFDLNLANNNFEGPIPDNISSCVNLNSFNAYGNRLNGTIPPSLHKLESMTYLNLSSNFLSGSIPIELSRINNLDTLDLSCNMITGPIPSTIGSLEHLLRLNLSNNGLVGFIPAEIGNLRSIMEIDMSNNHLGGLIPQELGMLQNLMLLNLKNNNITGDVSSLMNCFSLNILNVSYNNLAGVVPTDNNFSRFSPDSFLGNPGLCGYWLGSSCRSSGHQQKPLISKAAILGIAVGGLVILLMILVAVCRPHSPPVFKDVSVSKPVSNVPPKLVILHMNLSLLVYEDIMTMTENLSEKYIIGYGASSTVYKCVSKNRKPVAVKKLYAHYPQSFKEFETELETVGSIKHRNLVSLQGYSLSPVGNLLFYDYMENGSLWDVLHEGPTKKKKLDWETRLRIALGAAQGLAYLHHDCSPRIIHRDVKSKNILLDKDYEAHLTDFGIAKSLCVSKTHTSTYVMGTIGYIDPEYARTSRLNEKSDVYSYGIVLLELLTGKKPVDNECNLHHLILSKTANNAVMETVDPDIADTCKDLGEVKKVFQLALLCTKRQPSDRPTMHEVVRVLDCLVRPDPPPKSAQQLAMPQRPAVPSYINEYVSLRGTSVLSCANSSCTSDAELFLKFGEVISQNTE |
| 5956 | sp|Q9ZMH1|CLPB\_HELPJ | MNLFEKMTDQLHETLDSAIALALHHKNAEVTPMHMLFAMLNNSQGILIQALQKMPVDIEALKLSVQSELNKFAKVSQISKQNIQLNQALIQSLENAQGLMAKRGDSFIATDAYLLANMNLFESVLKPYLDTKELQKTLESLRKGRTIQDKNDDSNLESLEKFGIDLTQKALENKLDPVIGRDEEIIRMMQILIRKTKNNPILLGEPGVGKTAVVEGLAQRIVNKEVPKTLLNKRVVALDLSLLVAGAKYRGEFEERLKKVIEEVKKSANVILFIDEIHTIVGAGASEGGMDAANILKPALARGELHTIGATTLKEYRKYFEKDMALQRRFQPILLNEPSINEALQILRGLKETLETHHNITINDSALIASAKLSSRYITDRFLPDKAIDLIDEGAAQLKMQMESEPAKLSSVKRSIQRLEMEKQALEMENKESNHKRMQEILKELSDLKEEKIQLEAQFENEKEVFKEISRLKMEMEGLKKEAERFKRNGDYQQAAEIEYSKIPEKEKKEKELQHKWETMQQNGALLQNALTENNIAEIVSQWTHIPVQKMLQSEKNRVLNIESELQKRVVGQEKALKAIAKAIKRNKAGLSDSNKPIGSFLFLGPTGVGKTESAKALAQFLFDSDKNLIRIDMSEYMEKHAISRLIGAAPGYVGYEEGGQLTEAVRRKPYSVVLLDEVEKAHPDVFNLLLQVLDEGHLTDSKGVRVDFKNTILILTSNVASGALLEEDLSEADKQKAIKESLRQFFKPEFLNRLDEIISFNALDSHAIINIVGILFENVQKKALERGINITLDEKAKELIAEAGFDRFYGARPLKRALYEMVEDKLAELILEDKIKENDSVAFVVENNEIVPKIK |
| 5957 | sp|Q5HME0|CSHA\_STAEQ | MQNFKELGISDKTVQTLEAMGFKEPTPIQKDSIPYALEGDDILGQAQTGTGKTGAFGIPLIEKVVGQQGVQSLILAPTRELAMQVAEQLREFSKGQKVQVVTVFGGMPIERQIKALKRGPQIVVGTPGRVIDHLNRRTLKTQGIHTLILDEADEMMNMGFIDDMRFIMDKIPAEQRQTMLFSATMPKAIQELVQQFMKAPKIIKTMNNEMSDPQIDEYYTIVKELEKFDTFTNFLDVHQPELAIVFGRTKRRVDELTSALLSKGYKAEGLHGDITQAKRLEVLKKFKNDQIDILVATDVAARGLDISGVSHVYNFDIPQDTESYTHRIGRTGRAGKEGIAVTFVNPIEMDYIRQIEDVNNRRMKALRPPHRKEVLKAREDDIKDRVQNWMSRENEPRLQRISSELLKEYDSTELVASLLQELVEANDEVEVQLTFEKPLARKNRSSKGGSRRSNHKRGNGKFDNKNRRSKGSKGQSSKKKNQKKFDRRDKQQKSGNQSLKGRTFADHQK |
| 5958 | sp|Q8GY82|CRK45\_ARATH | MAVTSLLDTVFRRRKKKSTEFISFFEFDLDTIKAATNDFSELVGRGGFGFVYKGRLQNGQEIAVKILSTSSIRTERQFHNELIILSKLKHKNLINLLGFCTKRDQHGLVYEFMPNSSLDCFILDPHRAAQLNWEMCRNIIDGIARGLRYLHEESGLWVVHRDIKPGNILLDSDLKPKIVGFELARTMQQGENAAETTEIVGTVGYLDPEYIRSGRVSVKSDVYAFGVTILTIISRRKAWSVDGDSLIKYVRRCWNRGEAIDVIHEVMREEEREYSISEILRYIHIALLCVDENAERRPNIDKVLHWFSCFSTPLPDPTFGNRFLVEEETNWPWSPSLSPGHSSVTSPISSR |
| 5959 | sp|C3W947|CTSR\_GEOSE | MPNISDIIEQYLKQVLNMSDQDIVEIKRSEIANKFRCVPSQINYVINTRFTLERGYIVESKRGGGGYIRIMKVKTKSEAQLIDQLLELIDHRISQSSAEDVIKRLMEEKVISEREAKMMLSVMDRSVLYIDLPERDELRARMLKAMLTSLKYK |
| 5960 | sp|Q2SL36|DEGPL\_HAHCH | MKVCQKYTAVLLVWLSAVVSMRAGAVDLPDFTGLVERTSPAVVNISTVRKVGDDSAQYYFGGPEQDQIPEFFRHFFGDPYRRRGPQEAQSTGSGFIVSKDGYILTNNHVVAGADEIFVRLMDRRELTAKLIGSDEKSDLAVLKVEADDLPVLNLGKSSELKVGEWVVAIGSPFGFEYTVTAGIVSAKGRSLPNENYVPFIQTDVAINPGNSGGPLFNLEGEVVGINSQIYTRSGGFMGVSFAIPIDVALDVMNQLKDTGAVKRGWLGVLIQEVNKDLAESFNLNKPRGALVAQVMKGSPADKAGLQPGDVIVSYNGNEIGLSSELPHLVGRTSPGQKASMKVVRRGDEMDVAVEIGQLPADDNGVASVPAGQTAPQNNALNLQVRDLTDEEKESMQVAGGVMVAQVFPGPAATAGIQPNDVISSINNKDVETVAQFHEVVEKLPVGKSLPVLIIRQGNPAFIVLKLNNK |
| 5961 | sp|P0C0V0|DEGP\_ECOLI | MKKTTLALSALALSLGLALSPLSATAAETSSATTAQQMPSLAPMLEKVMPSVVSINVEGSTTVNTPRMPRNFQQFFGDDSPFCQEGSPFQSSPFCQGGQGGNGGGQQQKFMALGSGVIIDADKGYVVTNNHVVDNATVIKVQLSDGRKFDAKMVGKDPRSDIALIQIQNPKNLTAIKMADSDALRVGDYTVAIGNPFGLGETVTSGIVSALGRSGLNAENYENFIQTDAAINRGNSGGALVNLNGELIGINTAILAPDGGNIGIGFAIPSNMVKNLTSQMVEYGQVKRGELGIMGTELNSELAKAMKVDAQRGAFVSQVLPNSSAAKAGIKAGDVITSLNGKPISSFAALRAQVGTMPVGSKLTLGLLRDGKQVNVNLELQQSSQNQVDSSSIFNGIEGAEMSNKGKDQGVVVNNVKTGTPAAQIGLKKGDVIIGANQQAVKNIAELRKVLDSKPSVLALNIQRGDSTIYLLMQ |
| 5962 | sp|Q9Z6T0|DEGPL\_CHLPN | MITKQLRSWLAVLVGSSLLALPLSGQAVGKKESRVSELPQDVLLKEISGGFSKVATKATPAVVYIESFPKSQAVTHPSPGRRGPYENPFDYFNDEFFNRFFGLPSQREKPQSKEAVRGTGFLVSPDGYIVTNNHVVEDTGKIHVTLHDGQKYPATVIGLDPKTDLAVIKIKSQNLPYLSFGNSDHLKVGDWAIAIGNPFGLQATVTVGVISAKGRNQLHIADFEDFIQTDAAINPGNSGGPLLNIDGQVIGVNTAIVSGSGGYIGIGFAIPSLMANRIIDQLIRDGQVTRGFLGVTLQPIDAELAACYKLEKVYGALVTDVVKGSPADKAGLKQEDVIIAYNGKEVDSLSMFRNAVSLMNPDTRIVLKVVREGKVIEIPVTVSQAPKEDGMSALQRVGIRVQNLTPETAKKLGIAPETKGILIISVEPGSVAASSGIAPGQLILAVNRQKVSSIEDLNRTLKDSNNENILLMVSQGDVIRFIALKPEE |
| 5963 | sp|A3N3K0|DNAK\_ACTP2 | MGKIIGIDLGTTNSCVAVMDGDKARVIENAEGARTTPSIIAYTDNETLVGQPAKRQAITNPKNTLFAIKRLIGRRFESEEVQRDIKIMPFEITRADNGDAWVNVKGDKLAPPQISAEVLKKMKKTAEDFLGEAVTEAVITVPAYFNDAQRQATIDAGRIAGLDVKRIINEPTAAALAFGLGSTKENQVIAVYDLGGGTFDISIIEIDNFDGEQTFEVLATGGNTHLGGEDFDNRVIDYIIDEFKKEQGVDLRNDPMALQRVKEAAEKAKIELSSAQSTEVNLPYITADATGPKHLAINVTRAKLEALVEDLVASSIESLKTVLKDAGKSVNEINDIILVGGQTRMPLVQQKVAEFFGKEARKDVNPDEAVAIGAAVQGGVLKGDVKDVLLLDVTPLSLGIETMGGVMTVLIEKNTTIPTKKSQVFSTAEDNQSAVTIHVLQGERKQASANKSLGQFNLEGINPAPRGMPQIEVTFDIDANGVINVSAKDKNTGKEQQIRIQASSGLSDEEIEQMVRDAEANAEADKKFEELVQARNQADGIAHATRKQIEEAGDALNADDKAKIEAAIADLEKAAKGDDKAEIDAKTEALIKASEPLMQAAQAKAQAGEQPQQSAKDDGVVDAEFEEVKDNK |
| 5964 | sp|P83724|DNAK\_NAEFO | KIIGIDLGTTNSXVAVMESN |
| 5965 | sp|A0RPW7|DNAK\_CAMFF | MSKVIGIDLGTTNSCVSIYERGESKVIPNKEGKNTTPSVVAFTDKGEILVGDTAKRQAVTNPEKTIFSIKRIMGLMMNEKNAKEAKNRLPYHIVDRNGACAVEIAGKTYTPQEISAKVLMKLKEDAEAFLGESVVDAVITVPAYFNDSQRKATKEAGTIAGLNVLRIINEPTAAALAYGLDKKEAEKIVVYDLGGGTFDVTVLETGDSVVEVLATGGNAFLGGDDFDNRLIDFLVSEFKSETGIDLKNDVMALQRLKEAAENAKKELSSAMETTINLPFITADATGPKHLTKTLSRAKFEGMIDDLVGETITKINEVVKDAGISKGDIKEVVMVGGSTRVPLVQEEVKKAFSKELNKSVNPDEVVAIGAAIQGAVIKGDVKDVLLLDVTPLSLGIETLGGVMSKLIEKGTTIPTKKSQTFSTAEDNQSAVTINVLQGEREFAKDNKSLGNFNLEGIMPAPRGVPQIEVTFDIDANGILTVSAKDKASGKAQNITISGSSGLSEEEINKMVNDAEAHKEDDKKRKEAVEARNAADSLAHQTEKSLSEMGEKIPAEDRAKIEAALNDLKEVLKDESASKEQIDVKVKALSEVSHKLAEAMYKDQNAGAADGGAEKKKKDDDVIDAEVE |
| 5966 | sp|Q3A8C2|DNAK\_PELCD | MGKVIGIDLGTTNSCVAVMEGGEPVVIANAEGSRTTPSMVAFTENGERLVGQQAKRQAVTNPENTLFAIKRLIGRKFDSDAVRRDIQISPFEIVKADNGDAWVDVRDKKYSPPEISAMILQKMKQTAEDYLGEKVTDAVITVPAYFNDSQRQATKDAGKISGLNVLRIINEPTAASLAYGLDKKSEEKIAVFDLGGGTFDISILELGDGVFEVKSTNGDTFLGGEDFDQHIMDYVADEFKKEQGIDLRNDKMALQRLKEACEKAKCELSTSMETDINLPFITADQSGPKHLNLRLTRSKLESICSSLLAKLVEPCRMALKDAGLSASDVDEVLLVGGMTRMPAVQAKVQEIFGKTPNKGVNPDEVVAIGAAIQGGVLKGEVKDVLLLDVTPLSLGIETLGSIMTKLIEKNTTIPCKKSQIFSTAADNQPAVSVHVLQGEREMAGDNKTIGRFELVGIPPAPRGVPQVEVTFDIDANGILHVSAKDLGTGKEQSIRITASSGLSDEEIDKMVKDAEAHSSEDKKKREIIEARNQADGLAYSTEKSLKEHGDKIDEETRNNIQTALDALKAAMEGDDPEDIRQKSEALATASHKLAEAVYKQTQEGAEAASEAGEQSAGDEGVVDAEFEEVDEQNK |
| 5967 | sp|B2G6W4|DNAJ\_LACRJ | MAEQDYYDILGVSKDASEKDIKRAYRRLAAKYHPDVNHEPGAEEKFKKINEAYETLSDSQKRAQYDQFGSAGPQGAGGQGFGGFGGGQAYSNFGGGFDDIFSQFFGGGGRTRRDPTAPRQGRDLQYAMTLDFMDAVFGKTTTIKYDRDAECKTCHGTGAKPGKSPITCPRCHGAGVITSVRQTPLGNMQTQTTCPECNGTGKIIKPEDRCDTCHGAGHVHERHELEVKVPAGVDDGQQMRLQHQGDAGENGGPAGDLYIVFRVTPSREFRRDGSTIYVDRDISFAQAALGDEVKVKTVHGDVNLKIPAGTQSETNFRLRGKGVPHLNGNGNGDEHVTVHVKTPKSLNKRQREAMLAFAAASGEDVKGVKKTVLDKLRDAFEDK |
| 5968 | sp|A5W9A3|DNAK\_PSEP1 | MGKIIGIDLGTTNSCVSILENGNVKVIENAEGARTTPSIVAYANDGEILVGQSAKRQAVTNPHNTLFAVKRLIGRRFEEDVVQKDIKLVPYKIVKANNGDAWVEAAGKEMAPPQISAEVLKKMKKTAEDYLGEPVTEAVITVPAYFNDSQRQATKDAGRIAGLDVKRIINEPTAAALAYGMDKAKGDHTVIVYDLGGGTFDVSVIEIAEVDGEHQFEVLATNGDTFLGGEDFDMRLIDYLVDEFKKESGMDLKNDPLALQRLKEAAEKAKIELSSAQSTDVNLPYITADATGPKHLNVKISRAKLESLVEDLVKRTIEPCRIALKDAGIDASKIDDVILVGGQTRMPLVQKEVADFFGKEARKDVNPDEAVAMGAAIQGAVLAGDVKDVLLLDVSPLTLGIETMGGVMTALIEKNTTIPTKKSQVFSTADDNQSAVTIHVLQGERKQAAQNKSLGKFDLADIPPAPRGVPQIEVTFDIDANGILHVGAKDKATGKTQSIVIKANSGLSDEEIERMVRDAEANAEEDRKFEELAAARNQGDALVHSTRKMVADAGDKVTAEEKTAIEAAVVALEAAVKGDDKAAIDAKVEELSKVSAPVAQKMYAEQSAEQP |
| 5969 | sp|B4T6D6|DNAK\_SALNS | MGKIIGIDLGTTNSCVAIMDGTQARVLENAEGDRTTPSIIAYTQDGETLVGQPAKRQAVTNPQNTLFAIKRLIGRRFQDEEVQRDVSIMPYKIIGADNGDAWLDVKGQKMAPPQISAEVLKKMKKTAEDYLGEPVTEAVITVPAYFNDAQRQATKDAGRIAGLEVKRIINEPTAAALAYGLDKEVGNRTIAVYDLGGGTFDISIIEIDEVDGEKTFEVLATNGDTHLGGEDFDTRLINYLVDEFKKDQGIDLRNDPLAMQRLKEAAEKAKIELSSAQQTDVNLPYITADATGPKHMNIKVTRAKLESLVEDLVNRSIEPLKVALQDAGLSVSDINDVILVGGQTRMPMVQKKVAEFFGKEPRKDVNPDEAVAIGAAVQGGVLTGDVKDVLLLDVTPLSLGIETMGGVMTPLITKNTTIPTKHSQVFSTAEDNQSAVTIHVLQGERKRASDNKSLGQFNLDGINPAPRGMPQIEVTFDIDADGILHVSAKDKNSGKEQKITIKASSGLNEEEIQKMVRDAEANAESDRKFEELVQTRNQGDHLLHSTRKQVEEAGDKLPADDKTAIESALNALETALKGEDKAAIEAKMQELAQVSQKLMEIAQQQHAQQQAGSADASANNAKDDDVVDAEFEEVKDKK |
| 5970 | sp|Q83NI2|DNAJ\_TROW8 | MEDLYGILGVDHDASVDEIRRAYRRLARELHPDINPDSADRFKAVTHAYNILSDPEQRQRYDRHVSGGFSSDFNLSDLFQSFFDTSAEFQRGSDLLVNIDIDLKTAIYGGSQVVKIDSLVVCDVCNGTRSEPGYKAEVCFDCNGSGVVRGEVRTTLGNLITQNTCSKCRGNGERIDHPCRRCYGNGSRSAPRDITINIPPGVETGMRIKIPNMGNAGGAMPGDLYVDCKVKEHPYFLRDGQDLYCRLDISLVDALLGTKVKIDSLDGELAVVIPALSQNRDVIRIANKGAVTLRGGKGDLCIVLNVLLMQKLDPEHRALLKKIMPNPPKPKLAKRTSGFFSWLKNKFT |
| 5971 | sp|B8DRD6|DNAK\_DESVM | MGKIIGIDLGTTNSCVYVMEGKDPKCITNPEGGRTTPSIVAFTDKERLVGDIAKRQAVTNPERTVFAVKRLMGRKGDAPEVNNWKTHSPYRIVAGANGDAAVEVQGRQYSAAEVSAMILGKLKADAEAYLGETVTDAVITVPAYFNDAQRQATKDAGRIAGLDVKRIINEPTAASLAYGFDRKTNEKIAVFDLGGGTFDISILEVGDNVVEVRATNGDTFLGGEDFDQRVINYLVEEFRRENGVDLSKDRMALQRLKEAAEKAKKDLSTSMETEINLPFITADQNGPKHLMMKLSRAKLEKLVEDLVDRTIEPCRKALADAGLSAAQIDEVVLVGGMTRMPLVQKKVGEFFGKEPNRSVNPDEVVAMGAAIQGGILAGDVKDVLLLDVTPLSLGIETLGGVFTRLIDRNTTIPTRKSQTFTTAADNQPSVSIHVLQGERPMAGDNMTLGRFELSGIPPAMRGTPQVEVTFDIDANGIVNVSAKDLGTGKEQSIRITASSGLSESEIQRLIKEAESHADEDKKKQELIEARNQADGLIYGTEKSIADLGDKLDAATKSDIEGKIEALKKVMDGSDLEAIKTASEELSRASHKLAEQLYQQSQQGQPGAGPEAGDAGHAGHAGSAKGDDDVVDADYTEVKK |
| 5972 | sp|A8CVF3|DHN1\_AVIMR | MAEYGDQYGRQTDEYGNPIRQTGEFGATGAYGANQQYGTTGTTVGYGTDQCVTTVTTGAQKTDQYGTPGTTGAYGTDQYGTTGTTGEYGTHGGGIAPGATDAGLAGGGGGHRRLGSSGSSSSEDDGQGGRRKKGIKEKIKEKLPGGGHGDDQTHPTPPGSGGYGYEHGGAAESPEHEEKKGIMDKIKEKLPGGHH |
| 5973 | sp|B0BC31|DNAK\_CHLTB | MSEKRKSNKIIGIDLGTTNSCVSVMEGGQPKVIASSEGTRTTPSIVAFKGGETLVGIPAKRQAVTNPEKTLASTKRFIGRKFSEVESEIKTVPYKVAPNSKGDAVFDVEQKLYTPEEIGAQILMKMKETAEAYLGETVTEAVITVPAYFNDSQRASTKDAGRIAGLDVKRIIPEPTAAALAYGIDKEGDKKIAVFDLGGGTFDISILEIGDGVFEVLSTNGDTHLGGDDFDGVIINWMLDEFKKQEGIDLSKDNMALQRLKDAAEKAKIELSGVSSTEINQPFITIDANGPKHLALTLTRAQFEHLASSLIERTKQPCAQALKDAKLSASDIDDVLLVGGMSRMPAVQAVVKEIFGKEPNKGVNPDEVVAIGAAIQGGVLGGEVKDVLLLDVIPLSLGIETLGGVMTPLVERNTTIPTQKKQIFSTAADNQPAVTIVVLQGERPMAKDNKEIGRFDLTDIPPAPRGHPQIEVTFDIDANGILHVSAKDAASGREQKIRIEASSGLKEDEIQQMIRDAELHKEEDKQRKEASDVKNEADGMIFRAEKAVKDYHDKIPAELVKEIEEHIEKVRQAIKEDASTTAIKAASDELSTRMQKIGEAMQAQSASAAASSAANAQGGPNINSEDLKKHSFSTRPPAGGSASSTDNIEDADVEIVDKPE |
| 5974 | sp|B1J254|DNAK\_PSEPW | MGKIIGIDLGTTNSCVSILENGNVKVIENAEGARTTPSIVAYANDGEILVGQSAKRQAVTNPHNTLFAVKRLIGRRFEEDVVQKDIKLVPYKIVKANNGDAWVEASGKEMAPPQISAEVLKKMKKTAEDYLGEPVTEAVITVPAYFNDSQRQATKDAGRIAGLDVKRIINEPTAAALAYGMDKAKGDHTVIVYDLGGGTFDVSVIEIAEVDGEHQFEVLATNGDTFLGGEDFDMRLIDYLVDEFKKESGMDLKNDPLALQRLKEAAEKAKIELSSAQSTDVNLPYITADATGPKHLNVKISRAKLESLVEDLVNRTIEPCRIALKDAGIDASKIDDVILVGGQTRMPLVQKAVADFFGKEARKDVNPDEAVAMGAAIQGAVLAGDVKDVLLLDVSPLTLGIETMGGVMTPLIEKNTTIPTKKSQVFSTADDNQGAVTIHVLQGERKQASQNKSLGKFDLADIPPAPRGVPQIEVTFDIDANGILHVGAKDKATGKTQSIVIKANSGLSDEEIEKMVRDAEANAEEDRKFEELAAARNQGDALVHSTRKMVADAGDKVTAEEKTAIEAAVVALEAAVKGDDKAAIDAKVEELSKVSAPVAQKMYAEQSAEQPQGGAQQQAEPEAKHDDVVDAEFEEVKGDDKK |
| 5975 | sp|A3CQC2|DNAK\_STRSV | MSKIIGIDLGTTNSAVAVLEGTESKIIANPEGNRTTPSVVSFKNGEIIVGDAAKRQAVTNPDTIISIKSKMGTSEKVAANGKEYTPQEISAMILQYLKGYAEEYLGEKVTKAVITVPAYFNDAQRQATKDAGKIAGLEVERIVNEPTAAALAYGLDKQDKEEKILVFDLGGGTFDVSILELGDGVFDVLATAGDNKLGGDDFDQKIIDHMVAEFKKENGIDLSNDKMALQRLKDAAEKAKKDLSGVTSTQISLPFITAGDAGPLHLEMTLTRAKFDDLTRDLVERTKEPVRRALSDAGLSLSEIDEVILVGGSTRIPAVVEAVKAETGKEPNKSVNPDEVVAMGAAIQGGVITGDVKDVVLLDVTPLSLGIETMGGVFTKLIDRNTTIPTSKSQVFSTAADNQPAVDIHVLQGERPMAADNKTLGRFQLTDIPAAPRGIPQIEVTFDIDKNGIVSVKAKDLGTQKEQHIVIQSNSGLTDEEIDRMMKDAEANAEADKKRKEEVDLRNEVDQAIFATEKTIKETEGKGFDAERNAAQAALDELKKAQEDNNLDDMKAKLEALNEKAQALAVKLYEQAAAAQQAQAGAEGAENAGSTKADDDVVDGEFTEK |
| 5976 | sp|Q48RR3|DNAK\_STRPM | MSKIIGIDLGTTNSAVAVLEGTESKIIANPEGNRTTPSVVSFKNGEIIVGDAAKRQAVTNPETVISIKSKMGTSEKVSANGKEYTPQEISAMILQYLKGYAEDYLGEKVEKAVITVPAYFNDAQRQATKDAGKIAGLEVERIVNEPTAAALAYGMDKTDKDEKILVFDLGGGTFDVSILELGDGVFDVLATAGDNKLGGDDFDQKIIDFLVAEFKKENGIDLSQDKMALQRLKDAAEKAKKDLSGVTQTQISLPFITAGSAGPLHLEMSLSRAKFDDLTRDLVERTKTPVRQALSDAGLSLSEIDEVILVGGSTRIPAVVEAVKAETGKEPNKSVNPDEVVAMGAAIQGGVITGDVKDVVLLDVTPLSLGIETMGGVFTKLIDRNTTIPTSKSQVFSTAADNQPAVDIHVLQGERPMAADNKTLGRFQLTDIPAAPRGIPQIEVTFDIDKNGIVSVKAKDLGTQKEQHIVIKSNDGLSEEEIDRMMKDAEANAEADAKRKEEVDLKNEVDQAIFATEKTIKETEGKGFDTERDAAQSALDELKAAQESGNLDDMKAKLEALNEKAQALAVKMYEQAVAAQQAAQGAEGAQANDSANNDDVVDGEFTEK |
| 5977 | sp|Q1Q7X0|DNAK\_PSYCK | MGKVIGIDLGTTNSCVAVMEGDKVKIIENAEGTRTTPSIVAYKDDEILVGQSAKRQAVTNPNNTLFAIKRLIGRRFDDKVVQKDIGMVPYKIAKADNGDAWVEINGKKLAPPQVSAEILKKMKKTAEDYLGEAVTEAVVTVPAYFNDSQRQATKDAGKIAGLDVKRIINEPTAAALAYGMDKKQGDSTVAVYDLGGGTFDVSIIEIADVDGEQQFEVLATNGDTFLGGEDFDSALIDFLVAEFKKDQDVNLKGDSLAMQRLKEAAEKAKIELSSAQSTEVNLPYITADSSGPKHLVVTISRSKLESLTEELVQRTMGPCKIALEDAGIKIGDIDDVILVGGQTRMPLVQQKVQEFFGQEPRKDVNPDEAVAAGAAIQGAVLSGEKTDVLLLDVTPLTLGIETMGGILTPIIEKNTMIPTKKSQVFSTAEDNQPAVSIQVYQGERKIANQNKQLGRFDLTDIPPAPRGLPQIEVSFDINADGIMNISATDKGTGKAQSIQIKADSGLSDEEVEQMIRDAEANAAEDEKFANLAQVRNEADGRIHAVQKALKDAADKVSDDEKSSVEAAISELEAAAKEDDHEEIKAKLEALDNAFLPVSQKIYADAGASAEGMDPNQFQQGADNAGESNQADDDVVDAEFTEVEDDKK |
| 5978 | sp|Q91YW3|DNJC3\_MOUSE | MVAPGSVGSRLGAVFPFLLVLVDLQYEGAECGVNADVEKHLELGKKLLAAGQLADALSQFHAAVDGDPDNYIAYYRRATVFLAMGKSKAALPDLTKVIALKMDFTAARLQRGHLLLKQGKLDEAEDDFKKVLKSNPSEQEEKEAESQLVKADEMQRLRSQALDAFDGADYTAAITFLDKILEVCVWDAELRELRAECFIKEGEPRKAISDLKAASKLKSDNTEAFYKISTLYYQLGDHELSLSEVRECLKLDQDHKRCFAHYKQVKKLNKLIESAEELIRDGRYTDATSKYESVMKTEPSVAEYTVRSKERICHCFSKDEKPVEAIRICSEVLQMEPDNVNALKDRAEAYLIEEMYDEAIQDYEAAQEHNENDQQIREGLEKAQRLLKQSQKRDYYKILGVKRNAKKQEIIKAYRKLALQWHPDNFQNEEEKKKAEKKFIDIAAAKEVLSDPEMRKKFDDGEDPLDAESQQGGGGNPFHRSWNSWQGFNPFSSGGPFRFKFHFN |
| 5979 | sp|Q3T5N4|DRE1B\_ORYSJ | MEVEEAAYRTVWSEPPKRPAGRTKFRETRHPVYRGVRRRGGRPGAAGRWVCEVRVPGARGSRLWLGTFATAEAAARAHDAAALALRGRAACLNFADSAWRMPPVPASAALAGARGVRDAVAVAVEAFQRQSAAPSSPAETFANDGDEEEDNKDVLPVAAAEVFDAGAFELDDGFRFGGMDAGSYYASLAQGLLVEPPAAGAWWEDGELAGSDMPLWSY |
| 5980 | sp|B3Q6P8|ECFG\_RHOPT | MPLTDSLRDDILAAVPSLRAFAISLSGNADRADDLVQETLLRALANIDSFQPGSNLPAWLFTILRNLFRSDYRKRRREVEDADGSYAKTLKSQPGQTAHLEFEEFRAALDKLPQDQREALILVGASGFSYEDAAAICGCAVGTIKSRVNRARSKLSALLYVDGAEDFGPDDTVRAVIGGNG |
| 5981 | sp|Q8DEV2|CLPB\_VIBVU | MRLDRFTSKFQIAISDAQSLALGRDHQYIEPVHLMVALLDQNGSPIRPLLTILNVDVTHLRSKLSEMLDRLPKVSGIGGDVQLSSAMGAMFNLCDKIAQKRQDAYISSEIFLLAAIEDRGPLGQLFKELGLTEQKVSQAIEQIRGGQKVNDQNAEELRQALEKFTIDLTERAEQGKLDPVIGRDDEIRRTIQVLQRRTKNNPVIIGEPGVGKTAIVEGLAQRIINNEVPEGLRGRRVLSLDMGALVAGAKYRGEFEERLKSVLNELSKEEGNIILFIDELHTMVGAGKGEGSMDAGNMLKPALARGELHCVGATTLDEYRQYIEKDPALERRFQKVLVDEPTVEDTIAILRGLKERYELHHHVEITDPAIVAAASLSHRYVSDRQLPDKAIDLIDEAASSIRMQIDSKPEALDKLERKIIQLKIEQQALSNEHDEASEKRLRSLNEELNEKEREFAELEEIWNAEKAALSGTQHIKAALEQARMDMEFARRAGDLSRMSELQYGRIPELEKQLDLATQAEMQEMTLLKNKVTDNEIAEVLSKQTGIPVSKMLEAEKEKLLRMEEVLHKRVIGQKEAVEVVANAIRRSRAGLSDPNKPIGSFLFLGPTGVGKTELCKTLANFMFDSEDAMVRIDMSEFMEKHSVARLVGAPPGYVGYEEGGYLTEAVRRKPYSVILLDEVEKAHPDVFNILLQVLDDGRLTDGQGRTVDFRNTVVIMTSNLGSSRIQENFAMLDYQGIKEQVMEVVTKHFRPEFLNRVDETVVFHPLGQDHIKSIAAIQLNRLANRMEEHGYPLEVSDKALELIAQVGFDPVYGARPLKRAIQQSIENPLAKSILAGSVLPDKKIQLIVNNDQIVAHQ |
| 5982 | sp|Q6H795|CLPD1\_ORYSJ | MEVCCCSTSSAVPGRRFAAAGAAAAAVAARWGAVGVGRAVVLAHPLRPAPRGGHAHAQQAGARRARRAVVRAVFERFTERAVKAVVLSQREAKGLGEGAVAPRHLLLGLIAEDRSAGGFLSSGINIERAREECRGIGARDLTPGAPSPSGSGLEMDIPFSGSCKRVFEVAVEFSRNMGCSFISPEHLALALFTLDDPTTNSLLRSLGADPSQLASVALTRLQAELAKDCREPAGASSFKVPKKSPAGAGRSAFSKSLNSKKEKGALDQFCLDLTTQASGGFIDPIIGREEEIERVVQIICRRTKNNPILLGEAGVGKTAIAEGLALRIANGDVPIYLVAKRIMSLDVGLLIAGAKERGELESRVTSLIREVREAGDVILFIDEVHNLIGSGTVGKGKGAGLDIGNLLKPPLARGELQCIAATTLDEHRMHFEKDKALARRFQPVLVEEPSQDDAVKILLGLREKYETYHKCKFTLEAINAAVYLSARYIPDRQLPDKAIDLIDEAGSRARMESFNRKKEGQSSILLKSPDEYWQEIRAAQNMHEVVSSNQMKYSPRQENGSAAIKAPSEDMNELTSELQVEEPIVVGTEEIARVASLWSGIPVQQLTADDRKLLVGLDGELRKRVIGQDDAVMAISRAVKRSRVGLNDPDRPIATLLFCGPTGVGKTELTKALAASYFGSESAMLRLDMSEYMERHTVSKLIGSPPGYIGYGETGTLTEAVRRKPFTVVLLDEIEKAHPDIFNILLQIFEDGHLSDSQGRRVSFKNTLIVMTSNIGSTSISKGRRSMGFMTEDTESSSYVAMKSLVMEELKAFFRPELLNRIDEMVVFRPLEKTQMLAILDIILQEVKGRLLALGIGLEVSDAMKDLICEEGYDKSYGARPLRRAVTHLIEDVISEAILFGEYKPGDTILMDIDAGGKLCMSHLNEKVVQLSDPTRTF |
| 5983 | sp|Q9PTX2|CIRBP\_LITCT | MSCDEGKLFVGGLSFDTDEQCLETVFSKYGQIQEVVVVKDRETKRSRGFGFVTFENCEDAKDAMAGMNGKTVDGRQIRVDQAGKSSNDRRGGYRGGSSGGGRGFFRGGRGRGGGGYGGSSRFDNRSGGGYGGWIPDYYSSGRESSYGDRSAGGRSYRDSYDSYG |
| 5984 | sp|Q83N78|CLPB\_TROW8 | MSESQSELDKYGTNLTKTAATNKLDPVIGRDAEIRRVCQILSRRTKNNPVLIGSAGVGKTAIVEGLAQRIVAGDVPESLRNKEIVSLDLSALLAGASYRGEFEKRVKNLLEEIQKSKVIIFIDEVHTLMSAGAAEGAIAAGNMLKPLLARGELRLIGATTLDEYREHLEKDPALERRFQQVFVGEPNLEDCIAIMRGLKERYEAHHKVSISDTALVTAVELSSRYITGRQLPDKAIDLLDEAASSLRMEIDSSPVELDQLRREVDRLRLEELALKSENDPTSEQRLRSITNQLSGKQEMLNTLQASWNSERARLNQIGALKEQIDIAKQSADIAQREGRLEDASRLLYATIPQLQKNLAEKLEEQDSAPLVSDQVMPEDIASVVEGWTGIPVKKLMQKDAKQLLHLEEDLSKSVIAQKVAIGVIADAVRRSRAGLSDPNRPSGTFLFLGPTGVGKTQLVKALASLLYDGEIVRIDMSEYSEKFSISRLIGAPPGYIGHESAGQLTESVRRRPYSVVLFDEAEKAHPEVFDILLQVLDEGRLTDSHGRTVDFRNTIIVLTSNIGSRYLSDISLEATTAHEYVNDEVRRTFRPEFLNRLDEIVIFEPLSQSDICQIVDLNIESLNKRIKDRRIVVTVSEDLRRWLSKSGYDVIYGARPLRRLIQREIEDRLAKLIIEGLIHDGQTASFDLSGGAVNAQVCS |
| 5985 | sp|Q88Q71|CLPB\_PSEPK | MRIDRLTSKLQLAISDAQSLAVGMDHPAIEPVHLLQALLEQQGGSIKPLLMQVGFDINGLRQGLVKELDQLPKIQNPTGDVNMSQDLARLLNQADRLAQQKGDQFISSELVLLAAMDENSKLGKLLLSQGVSKKALENAINNLRGGAAVNDANAEESRQALDKYTVDLTKRAEEGKLDPVIGRDDEIRRTVQVLQRRTKNNPVLIGEPGVGKTAIAEGLAQRIINGEVPDGLKGKRLLALDMGALIAGAKYRGEFEERLKSLLNELSKQEGQIILFIDELHTMVGAGKGEGAMDAGNMLKPALARGELHCVGATTLNEYRQFIEKDAALERRFQKVLVEEPSEEDTIAILRGLKERYEVHHKVAITDGAIIAAAKLSHRYITDRQLPDKAIDLIDEAASRIRMEIDSKPEVLDRLDRRLIQLKVESQALKKEEDEAAKKRLEKLTEEIERLEREYSDLEEIWASEKAEVQGSAQIQQKIEQSRQELEAARRKGDLNRMAELQYGVIPDLERSLQMVDQHGKTDNQLLRNKVTEEEIAEVVSKWTGIPVAKMLEGEREKLLKMEELLHQRVIGQSEAVTAVANAVRRSRAGLSDPNRPSGSFLFLGPTGVGKTELCKALAEFLFDTEEAMVRIDMSEFMEKHSVARLIGAPPGYVGYEEGGYLTEAVRRKPYSVVLLDEVEKAHPDVFNVLLQVLEDGRLTDSHGRTVDFRNTVIVMTSNLGSAQIQELVGDREAQRAAVMDAVGAHFRPEFINRIDEVVVFEPLGREQIAGITEIQLGRLRSRLLERELSLSLSPEALDKLIAVGYDPVYGARPLKRAIQRWIENPLAQLILAGKFLPGTAITAKVEGDEIVFG |
| 5986 | sp|P50866|CLPX\_BACSU | MFKFNEEKGQLKCSFCGKTQDQVRKLVAGPGVYICDECIELCTEIVEEELGTEEEVEFKDVPKPQEIREILNEYVIGQDQAKKSLAVAVYNHYKRINSNSKVDDVELSKSNISLIGPTGSGKTLLAQTLARILNVPFAIADATSLTEAGYVGEDVENILLKLIQAADYDVEKAEKGIIYIDEIDKVARKSENPSITRDVSGEGVQQALLKILEGTVASVPPQGGRKHPHQEFIQIDTTNILFICGGAFDGIEQIIKRRLGQKVIGFGADNKAADLEKEDLLSKVLPEDLLRFGLIPEFIGRLPVIASLEKLDEEALVAILTKPKNALVKQFKKMLELDNVELEFEEEALSEIAKKAIERKTGARGLRSIIEGIMLDVMFELPSRDDIEKCVITGATVTHGEPPRLLLKDGTEVSQDKTSA |
| 5987 | sp|Q5X9L4|CSPA\_STRP6 | MAQGTVKWFNAEKGFGFISTENGQDVFAHFSAIQTSGFKTLEEGQKVAFDVEEGQRGPQAVNITKLA |
| 5988 | sp|Q53984|CSPA\_STRDY | EKGFGFISTENGQDVFAHFSAIQTNGFKTLEEGQKVEFDVEEGQR |
| 5989 | sp|Q2FWH5|CSHA\_STAA8 | MQNFKELGISDNTVQSLESMGFKEPTPIQKDSIPYALQGIDILGQAQTGTGKTGAFGIPLIEKVVGKQGVQSLILAPTRELAMQVAEQLREFSRGQGVQVVTVFGGMPIERQIKALKKGPQIVVGTPGRVIDHLNRRTLKTDGIHTLILDEADEMMNMGFIDDMRFIMDKIPAVQRQTMLFSATMPKAIQALVQQFMKSPKIIKTMNNEMSDPQIEEFYTIVKELEKFDTFTNFLDVHQPELAIVFGRTKRRVDELTSALISKGYKAEGLHGDITQAKRLEVLKKFKNDQINILVATDVAARGLDISGVSHVYNFDIPQDTESYTHRIGRTGRAGKEGIAVTFVNPIEMDYIRQIEDANGRKMSALRPPHRKEVLQAREDDIKEKVENWMSKESESRLKRISTELLNEYNDVDLVAALLQELVEANDEVEVQLTFEKPLSRKGRNGKPSGSRNRNSKRGNPKFDSKSKRSKGYSSKKKSTKKFDRKEKSSGGSRPMKGRTFADHQK |
| 5990 | sp|Q44078|CSPA\_AERHY | EKGFGFISPTDGSKDVFVHFSAIQTPGFKTLDEGQRVEFTIEQGQK |
| 5991 | sp|Q5DWG1|CRJ35\_CRYJA | MASLRLATLAMMVLFGSCRAGATVFTLVNKCSYTVWPGTLSGSGSSVLGEGGFTLAPGQSVPLTASSRWSGRFWGRTDCSFDASGKGSCITGDCGNVLNCAQAGGTPPVSLAEFTLGDKDFYDVSLVDGYNVPLSIAAVGGTGDCRTAGCVSDLRTSCPAELSVTSNGQVIACKSACAAFSTPEYCCTGDHGSPQTCSPSKYSQVFKSACPTAYSYAYDDATSTFTCSNADYTITFCPSS |
| 5992 | sp|O85291|DEGPL\_BUCAP | MKRINIVLSGIMLFLTLLLSFGMSWGNKNFTSSQNVSSVQLAPSLAPMLEKVMPSVISINIEGSTVVHTSRLPHQFQPFFGHNSPFCQGNSPFRNSPFCRSNPNSNSMHEKFHALGSGVIINADKAYAVTNNHVVENANKIQVQLSDGRRYEASIIGKDSRSDIALIQLKNAKNLSAIKIADSDTLRVGDYTVAIGNPYGLGETVTSGIISALGRSGLNIEHYENFIQTDAAINRGNSGGALVNLKGELIGINTAILAPDGGNIGIGFAIPGNMVKNLTEQMVKFGQVKRGELGIIGMELNSDLAHVMKINAQKGAFVSQVLPNSSAFHAGIKAGDIIVSLNKKTISSFAALRAEVGSLPVSTKMELGIFRNGITKNVIVELKPSLKNSVSLGDIYTGIEGADLSDCSLNGQKGVKIENIKLNTQASKIGFKKDDIIVEVNQKVINNLNDLKNILDSKPNILVFSVKRGNNSIYLVSE |
| 5993 | sp|Q8XA87|DEAD\_ECO57 | MAEFETTFADLGLKAPILEALNDLGYEKPSPIQAECIPHLLNGRDVLGMAQTGSGKTAAFSLPLLQNLDPELKAPQILVLAPTRELAVQVAEAMTDFSKHMRGVNVVALYGGQRYDVQLRALRQGPQIVVGTPGRLLDHLKRGTLDLSKLSGLVLDEADEMLRMGFIEDVETIMAQIPEGHQTALFSATMPEAIRRITRRFMKEPQEVRIQSSVTTRPDISQSYWTVWGMRKNEALVRFLEAEDFDAAIIFVRTKNATLEVAEALERNGYNSAALNGDMNQALREQTLERLKDGRLDILIATDVAARGLDVERISLVVNYDIPMDSESYVHRIGRTGRAGRAGRALLFVENRERRLLRNIERTMKLTIPEVELPNAELLGKRRLEKFAAKVQQQLESSDLDQYRALLSKIQPTAEGEELDLETLAAALLKMAQGERTLIVPPDAPMRPKREFRDRDDRGPRDRNDRGPRGDREDRPRRERRDVGDMQLYRIEVGRDDGVEVRHIVGAIANEGDISSRYIGNIKLFASHSTIELPKGMPGEVLQHFTRTRILNKPMNMQLLGDAQPHTGGERRGGGRGFSGERREGGRNFSGERREGGRGDGRRFSGERREGRAPRRDDSTGRRRFGGDA |
| 5994 | sp|Q03WI2|DNAK\_LEUMM | MSKIIGIDLGTTNSAVAVLEGGEPKIITNPDGGRTTPSVVSFKNGESQVGDVAKRQAITNPDTIISIKSHMGEAGYKVNANGKDYTPQEISAMILQYIKGYAEDYLGEKVEKAVITVPAYFNDAQRQATKDAGKIAGLEVERIINEPTAAALAYGLDKLDKDEKILVYDLGGGTFDVSILELGDGVFEVLSTNGDTHLGGDDFDNKVIDYLAEQFKSENGVDLKDDKLALQRLKDAAESAKKTLSSANEAQIDLPFIASGDNGPLHLQTSLTRAKFNELTADLIKKAEQPVLSALKDAGLSFSDIDEVILNGGSTRIPAVQESVKKMTGKEPNHSINPDEAVALGAAVQGGVITGDVKDVVLLDVTPLSLGIETMGGVFTKLIERNTTIPTSKSQVFSTAADNQPAVDIHVLQGERSMAADNKTLGRFQLADIPAAPRGVPQIEVTFDIDRNGIVNVSAKDLGTQKEQKITIQAAGGLSDEEIEKMMNDAKANEEADAKKKEAVDTRNEADQLIFQTEKTLEEVGDKLGDDEKKPTQDALEALKKAKEDAAADDADLTDLKAKSEELTKVAGELAMKLYQQAAPKDGAEGDAKSADDNTVDGDFEEVDPNKDDKK |
| 5995 | sp|Q6LS31|DNAK2\_PHOPR | MSKIIGIDLGTTNSCIALLDGDKPRVIENAEGERTTASVIAYTQDGEILVGQPAKRQAVTNPKNTLFAIKRLLGRRFEDEEVQRDIEIMPFNIVKADNGDAWVEAKGKKMAAPQVSAEVLKKMKKTAEDYLGEEVTGAVITVPAYFNDAQRQATKDAGRIAGLDVKRIINEPTAAALAYGLDKQGGERTIAVYDLGGGTFDISIIEIDEVDGEKTFEVLSTNGDTHLGGEDFDNRMINYLVGEFKKEQGIDLKSDPLAMQRVKEAAEKAKIELSSAQQTDVNLPYVTADAAGPKHMNVKVTRAKLESLVEDLVQRTLEPLKIALTDANLSITDITDVILVGGQTRMPMVQAKVTEFFGKEPRKDVNPDEAVAVGAAIQAGVLAGEVKDVLLLDVTPLSLGIETMGGVMTKLIEKNTTIPTKANQVFSTAEDNQSAVTIHVLQGERKQSSYNKSLGQFNLEGIQAGSRGTAQIDVTFDLDADGILHVSATDKATNKEQKITIQASGGLSNDDIEKMVQEAEANKEADKMFEELVTARNQADQLVHSTRKQVEELGDALPADEKAKIDTAIADVETALKGEDKAAIDNATQALMTASQALVQMAQQQAQAQHAQSSQQTNDTTGQSSTDDDVFEAEFEEVKDK |
| 5996 | sp|Q7VG06|DNAJ\_HELHP | METFDYYEILEITRTSDKETIKKAYRKMALKYHPDRNPDDKDAEEQFKRVNEAYEVLSDDSKRQIYDKYGKEGLQNSGFSGFSGRDFSDIFGDLGSIFESAFGANFGFSTQKRGGGKYNLDEIVGLELSFTEAVFGCKKEIHNSFKIACSDCKGTGAKGGKLNTCKDCGGKGQVYMRQGFMTFAQTCPTCKGEGQSASEKCSKCKGSGFEISEESFEVSIPEGIDDGNRIRIGGRGNADKNGSRGDLYIAVSVAEDENFVRDGENVYIEVPVFFTSIVLGTTLKIPSLRGELELKIPPNTRDKEQFVFDNEGIKDVNSAYRGKFVAQIKITYPPKLNAEQRALTEKLQESFGIESEPYKNVFEECFTKVKQWLHKHSKNDKDTTK |
| 5997 | sp|A9ILH7|DNAK\_BART1 | MAKVIGIDLGTTNSCVAVMDGKNAKVIENSEGARTTPSVVAFTDGGERLVGQPAKRQAVTNPEGTVFAVKRLIGRRFDDPMVEKDKALVPYKIVKGDNGDAWVEEAGKKYSPSQISAMILQKMKETAESYLGEKVEQAVITVPAYFNDAQRQATKDAGKIAGLEVLRIINEPTAAALAYGLDKKDGKTIAVYDLGGGTFDISVLEIGDGVFEVKSTNGDTFLGGEDFDMRLVGYFADEFKKEQGIDLKNDKLALQRLKEAAEKAKIELSSSQQTEINLPFITADQSGPKHLTMKLTRAKFESLVDDLVQRTIEPCKAALKDAGLKAGEIDEVVLVGGMTRMPKIQQVVQNFFGKDPHKGVNPDEVVAMGAAIQGGVLQGDVKDVLLLDVTPLSLGIETLGGVFTRLIERNTTIPTKKSQVFSTADDNQSAVTIRVFQGEREMASDNKLLAQFDLVGIPPAPRGIPQIEVTFDIDANGIVNVSAKDKGTGKEHQIRIQASGGLSDADIEKMVKDAEEHAAEDKKRREGVEAKNQAEALIHSTEKSLNEYGDKVSVEEKGQIEAAISDLKSALEGSDTEEVTTKMQKLAEVSMKLGQAMYESSQAASADTETETKDDDVVDADFEEVNDKKK |
| 5998 | sp|Q21CI2|DNAK\_RHOPB | MGKVIGIDLGTTNSCVAVMDGKAPKVIENAEGMRTTPSIVAFSDDGERLVGQPAKRQAVTNPERTFFAVKRLVGRRYDDPMVEKDKKLVPYKIVKASNGDAWVEADAKTYSPSQVSAFILQKMKETAEAHLGAKVDQAVITVPAYFNDAQRQATKDAGKIAGLEVLRIINEPTAAALAYGLDKAKAGVIAVYDLGGGTFDVSILEIGDGVFEVKSTNGDTFLGGEDFDMRLVSYLADEFQKEQGINLRNDKLALQRLKEAAEKAKIELSSTTQTEINLPFITADQSGPKHLTMKLTRAKFEALVDDLVQKTIEPCRKALKDAGLTAGEIGEVVLVGGMTRMPKVQEVVKQLFGKEPHKGVNPDEVVAIGAAIQAGVLQGDVKDVLLLDVTPLSLGIETLGGVFTRIIERNTTIPTKKSQVFSTAEDNQNAVTIRVFQGEREMAADNKILGQFDLMGIPPSPRGMPQIEVTFDIDANGIVNVSARDKATGKEQQIRIQASGGLSEADINKMVKDAEINAAEDKKRREAVDAKNHADALVHTTEKALAEHGAKVEEGERRAIEDALGDLREALKGDDAEAIKAKSNTLAQASMKLGEAMYKQQAEADAAKDAAKDDVVDAEFTEVDDDKPKKSA |
| 5999 | sp|P17820|DNAK\_BACSU | MSKVIGIDLGTTNSCVAVLEGGEPKVIANAEGNRTTPSVVAFKNGERQVGEVAKRQSITNPNTIMSIKRHMGTDYKVEIEGKDYTPQEVSAIILQHLKSYAESYLGETVSKAVITVPAYFNDAERQATKDAGKIAGLEVERIINEPTAAALAYGLDKTDEDQTILVYDLGGGTFDVSILELGDGVFEVRSTAGDNRLGGDDFDQVIIDHLVSEFKKENGIDLSKDKMALQRLKDAAEKAKKDLSGVSSTQISLPFITAGEAGPLHLELTLTRAKFEELSSHLVERTMGPVRQALQDAGLSASEIDKVILVGGSTRIPAVQEAIKKETGKEAHKGVNPDEVVALGAAIQGGVITGDVKDVVLLDVTPLSLGIETMGGVFTKLIDRNTTIPTSKSQVFSTAADNQTAVDIHVLQGERPMSADNKTLGRFQLTDIPPAPRGVPQIEVSFDIDKNGIVNVRAKDLGTGKEQNITIKSSSGLSDEEIERMVKEAEENADADAKKKEEIEVRNEADQLVFQTEKTLKDLEGKVDEEQVKKANDAKDALKAAIEKNEFEEIKAKKDELQTIVQELSMKLYEEAAKAQQAQGGANAEGKADDNVVDAEYEEVNDDQNKK |
| 6000 | sp|A7Z6W1|DNAK\_BACVZ | MSKVIGIDLGTTNSCVAVLEGGEPTVIANAEGNRTTPSVVAFKNGERQVGEVAKRQSITNPNTIMSVKRHMGTDYKVEIEGKDYTPQEVSAIILQHLKAYAESYLGETVSKAVITVPAYFNDAERQATKDAGKIAGLEVERIINEPTAAALAYGLDKTDEDQTILVYDLGGGTFDVSVLELGDGVFEVRSTAGDNRLGGDDFDQVIIDHLVAEFKKENGIDLSKDKMALQRLKDAAEKAKKDLSGVSSTQISLPFITAGEAGPLHLELTLTRAKFEELSAHLVERTMAPVRQALQDADLSASEIDKVILVGGSTRIPAVQEAIKKETGKEAHKGVNPDEVVALGAAIQGGVITGDVKDVVLLDVTPLSLGIETMGGVFTKLIDRNTTIPTSKSQVFSTAADNQTAVDIHVLQGERPMSADNKTLGRFQLTDIPPAPRGVPQIEVSFDIDKNGIVNVRAKDLGTGKEQNITIKSSSGLSDDEIERMVKEAEENADADAKRKEEIEVRNEADQLVFQTEKTLKDLEGKVDEEQVKKANDAKDALKAAIEKNEIEDIKAKKDELQTIVQELSMKLYEEAAKAQQAEGGANAEGKKADDNVVDAEYEEVKDDETKK |
| 6001 | sp|Q11QH3|DNAK\_CYTH3 | MGKIIGIDLGTTNSCVAVMEGSEAVVIPNSEGKRTTPSIVAFLENGERKVGDPAKRQAITNPTNTISSIKRFMGKKFSESKSEADRATYKLEAGSNDTPRVRIADRQYTPQELSAMILQKMKTTAEEYLGHEVKEAVITVPAYFNDAERQATKEAGQIAGLEVKRIINEPTAAALAYGMDKKGKDMTVAVFDLGGGTFDVSVLELGDGVFEVKSTNGDVHLGGDNFDEVIIDWLAGEFKSEEGLDLRQDPMALQRLKEAAEKAKIELSSSASTEINLPYIMPVNGMPKHLVKTLTRAKFEQLADSLIKRTLDPCKQALKDAGLSIGQIDEVILVGGSTRIPRIQEEVEKFFGKKPSKGVNPDEVVALGAAIQGGVLTGEVTDVLLLDVIPLSLGIETMGGVFTKLIEANTTIPSKKSEVFSTASDNQPSVEIHVLQGERAFAKDNRSIGRFHLGDIPPAPRNVPQIEVTFDIDANGILNVSAKDKGTGKEQKIRIEASSGLSADEIERMRNEAKANEGKDREEKEKIEKINQADSMIFQTEKQLKEFGDKLSAGNKSAIEASLEDLKKAFEAKDISAIDTAMAAINTAWQAASQEMYSAEQGAGQPGADAGQSGPSDSVTDVEFEEVDGDKK |
| 6002 | sp|Q67S53|DNAJ\_SYMTH | MDRLAKRDYYEILGVPRNATEAEIKKAFRNLARKYHPDANKDDPDAAEKFKEINEAYQVLSDPEKRARYDQFGHAAEQMGGAGGNPFEGFGGFGDFGGFSDIFEMFFGGAGRQRNPRGPVRGADLEYELELTLKEAAFGCTKELRVPRVEDCDTCHGSGARPGTQPVTCPKCGGTGQVQMTQHTVFGRFVNVMTCDRCRGEGKIVESPCPTCRGRGRVQKTQRVEVKVPGGVETGTRLRMPGYGEAGERGGPPGDLFIVMRVRPDRRFRREGDDLFTTTEISFIQAALGTEIEVETLDGPELIKIPEGTQPGDTIRLKGKGTHRLRGSGRGDLHVVISVKTPGRLSERERELLLEVAALRGERVAGMTENKEKSFLKKMKDALGGR |
| 6003 | sp|Q56073|DNAK\_SALTY | MGKIIGIDLGTTNSCVAIMDGTQARVLENAEGDRTTPSIIAYTQDGETLVGQPAKRQAVTNPQNTLFAIKRLIGRRFQDEEVQRDVSIMPYKIIGADNGDAWLDVKGQKMAPPQISAEVLKKMKKTAEDYLGEPVTEAVITVPAYFNDAQRQATKDAGRIAGLEVKRIINEPTAAALAYGLDKEVGNRTIAVYDLGGGTFDISIIEIDEVDGEKTFEVLATNGDTHLGGEDFDTRLINYLVDEFKKDQGIDLRNDPLAMQRLKEAAEKAKIELSSAQQTDVNLPYITADATGPKHMNIKVTRAKLESLVEDLVNRSIEPLKVALQDAGLSVSDINDVILVGGQTRMPMVQKKVAEFFGKEPRKDVNPDEAVAIGAAVQGGVLTGDVKDVLLLDVTPLSLGIETMGGVMTPLITKNTTIPTKHSQVFSTAEDNQSAVTIHVLQGERKRASDNKSLGQFNLDGINPAPRGMPQIEVTFDIDADGILHVSAKDKNSGKEQKITIKASSGLNEEEIQKMVRDAEANAESDRKFEELVQTRNQGDHLLHSTRKQVEEAGDKLPADDKTAIESALNALETALKGEDKAAIEAKMQELAQVSQKLMEIAQQQHAQQQAGSADASANNAKDDDVVDAEFEEVKDKK |
| 6004 | sp|B1IRG0|DNAK\_ECOLC | MGKIIGIDLGTTNSCVAIMDGTTPRVLENAEGDRTTPSIIAYTQDGETLVGQPAKRQAVTNPQNTLFAIKRLIGRRFQDEEVQRDVSIMPFKIIAADNGDAWVEVKGQKMAPPQISAEVLKKMKKTAEDYLGEPVTEAVITVPAYFNDAQRQATKDAGRIAGLEVKRIINEPTAAALAYGLDKGTGNRTIAVYDLGGGTFDISIIEIDEVDGEKTFEVLATNGDTHLGGEDFDSRLINYLVEEFKKDQGIDLRNDPLAMQRLKEAAEKAKIELSSAQQTDVNLPYITADATGPKHMNIKVTRAKLESLVEDLVNRSIEPLKVALQDAGLSVSDIDDVILVGGQTRMPMVQKKVAEFFGKEPRKDVNPDEAVAIGAAVQGGVLTGDVKDVLLLDVTPLSLGIETMGGVMTTLIAKNTTIPTKHSQVFSTAEDNQSAVTIHVLQGERKRAADNKSLGQFNLDGINPAPRGMPQIEVTFDIDADGILHVSAKDKNSGKEQKITIKASSGLNEDEIQKMVRDAEANAEADRKFEELVQTRNQGDHLLHSTRKQVEEAGDKLPADDKTAIESALTALETALKGEDKAAIEAKMQELAQVSQKLMEIAQQQHAQQQTAGADASANNAKDDDVVDAEFEEVKDKK |
| 6005 | sp|A2BZ91|DNAK\_PROM5 | MGKVVGIDLGTTNSCVAVMEGGKPTVIANAEGFRTTPSVVAYTKNQDQLVGQIAKRQAVMNPENTFYSAKRFVGRRVDEVNEESKDVSYGIEKAGSNVKLKCPVLDKQFSPEEVSAQVLRKLSEDAGKYLGENITQAVITVPAYFNDSQRQATKDAGKIAGLEVLRIINEPTAAALAYGLDKKSNERILVFDLGGGTFDVSVLEVGDGVFEVLSTSGDTHLGGDDFDRCIVNHLASVFKSNEGIDLREDKQALQRLTEAAEKAKIELSNATQSEINLPFITATPDGPKHLDLNLTRANFEELASKLIDRCRVPVEQALKDAKLSTGEIDEIVMVGGSTRMPAVQELVKRVTGKDPNQTVNPDEVVAVGAAIQGGVLAGEVKDILLLDVTPLSLGVETLGGVMTKMITRNTTVPTKKSETYSTAVDGQTNVEIHVLQGEREMASDNKSLGTFRLDGIPSAPRGVPQIEVTFDIDANGILSVTAKDKGSGKEQSISITGASTLSDNEVDKMVKDAESNASVDKEKREKIDLKNQAETLVYQTEKQLGELGDKVDDSAKAKVEEKSKALKEATSKEDYDSMKKLLEELQQELYAIGSSVYQQPGNQPPAPGGPNANASDDKGPDDDVIDADFTETKD |
| 6006 | sp|C4L425|DNAK\_EXISA | MGKIIGIDLGTTNSCVAVMEGGEAVVISNAEGNRTTPSVVAFKGEERQVGEVAKRQAITNPNTIQSIKRHMGTSHTVDVDGKKFTPQEISAIILQKLKKDAEDYLGESVTEAVITVPAYFNDAERQATKDAGKIAGLDVKRIINEPTAAALAYGLDKGEDHTILIYDLGGGTFDVSILELGDGVFEVVATAGDNRLGGDDFDQKVIDYLVAEFKKENGIDLGKDKMALQRLKDAAEKAKKDLSGVTSAHISLPFITAGEAGPLHLEMTLTRAKFEELTADLVERTMEPTRRALKDAGLTPSDLDKIILVGGSTRIPAVQKAIHDFTKKEPFKGVNPDEVVALGAAIQGGVLAGDVKDVVLLDVTPLSLGIETMGGVMTKLIDRNTTIPTSKSQVFSTAADNQPAVDIHVLQGERPMAPDNKTLGRFQLTDIPPAPRGVPQIEVKFDIDANGIVHVSAKDLGTNKEQSITIQSSSGIDEAEIERMVKEAEANAEADNKRKEEAELRNETDQLVFATDKAIKDLGEQVEEADKEKAEAAKEKAKTALEGSDLEAIRTAKDELSAVVQELTQKVYAKMAEQQGAEGAEPQAEAKQDDNVVDAEFEDLDDRK |
| 6007 | sp|Q0AIY0|DNAJ\_NITEC | MSQRDYYEVLGVGRDADESELKKVYRKLAMKYHPDRNAGDAKAEERFKEIKEAYEVLSDSNKRAAYDQFGHAGLNGGVGGAGAQGFSDAFSDIFSDLFGMRGGGRSSVHRGADLRYNLEITLEQAARGTETKIRIPRQEACDTCHGSGAKPGTSPKTCPTCNGHGQVRMQQGFFSIQQTCSHCHGSGKIVSDPCTDCQGAGRVKRHKTLSVRIPAGVDEGDSIRLTGEGEAGASGGLAGDLYVVIHLASHPVFQREGNHLHCEIPISFTVAALGGEIEVPTLDGHARIKVPTGTQTGKIFRLRSKGITGVRNQSTGDLLCHVAVETPVNLTPRQKELLEEFESISQKDGSLHHPRAKSWMEKAREFFTE |
| 6008 | sp|Q2FXZ2|DNAK\_STAA8 | MSKIIGIDLGTTNSCVTVLEGDEPKVIQNPEGSRTTPSVVAFKNGETQVGEVAKRQAITNPNTVQSIKRHMGTDYKVDIEGKSYTPQEISAMILQNLKNTAESYLGEKVDKAVITVPAYFNDAERQATKDAGKIAGLEVERIINEPTAAALAYGLDKTDKDEKVLVFDLGGGTFDVSILELGDGVFEVLSTAGDNKLGGDDFDQVIIDYLVAEFKKENGVDLSQDKMALQRLKDAAEKAKKDLSGVSQTQISLPFISAGENGPLHLEVNLTRSKFEELSDSLIRRTMEPTRQAMKDAGLTNSDIDEVILVGGSTRIPAVQEAVKKEIGKEPNKGVNPDEVVAMGAAIQGGVITGDVKDVVLLDVTPLSLGIEILGGRMNTLIERNTTIPTSKSQIYSTAVDNQPSVDVHVLQGERPMAADNKTLGRFQLTDIPPAERGKPQIEVTFDIDKNGIVNVTAKDLGTNKEQRITIQSSSSLSDEEIDRMVKDAEVNAEADKKRREEVDLRNEADSLVFQVEKTLTDLGENIGEEDKKSAEEKKDALKTALEGQDIEDIKSKKEELEKVIQELSAKVYEQAAQQQQQAQGANAGQNNDSTVEDAEFKEVKDDDKK |
| 6009 | sp|Q05558|DNAK\_STRCO | MARAVGIDLGTTNSVVSVLEGGEPTVITNAEGARTTPSVVAFAKNGEVLVGEVAKRQAVTNVDRTIRSVKRHMGTDWKVNLDGKDFNPQQISAFVLQKLKRDAESYLGEKVTDAVITVPAYFNDAERQATKEAGEIAGLNVLRIVNEPTAAALAYGLDKDEQVILVFDLGGGTFDVSLLEIGDGVVEVKATNGDNNLGGDDWDQRVVDYLVKQFQSGHGVDLAKDKMALQRLREAAEKAKIELSSSTETTINLPYITASAEGPLHLDEKLTRAQFQQLTSDLLERCKTPFHNVIKDAGIQLSEIDHVVLVGGSTRMPAVAELVKELTGGKDANKGVNPDEVVAIGAALQAGVLKGEVKDVLLLDVTPLSLGIETKGGIMTKLIERNTTIPTKRSEIFTTAEDNQPSVQIQVYQGEREIAAYNKKLGMFELTGLPPAPRGVPQIEVAFDIDANGIMHVTAKDLGTGKEQKMTVTGGSSLPKDEVDRMRQEAEKYAEEDHARREAAESRNQGEQLVYQTEKFLKDNEDKVPGEVKTEVESAVAELKEKLKGEDTAEIRTATEKVAAVSQKLGQAMYADAQAAQAAGGEAPGADAGAEGKGADDDVVDAEIVDDERKDGAA |
| 6010 | sp|Q5NPS6|DNAK\_ZYMMO | MGKVIGIDLGTTNSCVAVMEGGQPKVIENAEGARTTPSIVAFTKDSERLIGQPAKRQAVTNSENTIFAVKRLIGRRFDDPVTKRDTELVPYHIVRGSNGDAWVKAGGQDYSPSQISAFILQKMKETAESYLGETVDQAVITVPAYFNDAQRQATKDAGKIAGLEVLRIINEPTAAALAYGLDKNDGKTIAVYDLGGGTFDISILEIGDGVFEVKATNGDTFLGGEDFDTKIVSYLAEEFKKAEGIDLTKDRLALQRLKEAAEKAKIELSSAQTTEVNLPFITADATGPKHLVKTISRAELERLVADLIDRTLEPVKKALADAGVKASDIDDVVMVGGMTRMPKVRQVVKEFFGKEPHTGVNPDEVVAMGAAIQAGVLQGDVKDVLLLDVTPLSLGIETLGGVFTRMIDRNTTIPTKKSQVYSTAEDNQNAVTIRVFQGEREMAADNKLLGQFDLVGIPPAPRGVPQIEVTFDIDANGIVNVSAKDKGTGKEQQIRIQASGGLSEGDIDKMVKDAEKFAADDKHRRELAEAKNNGDSLVHTTERQLTELGDKVDAALKTEVEAAVAAVKTALEGEDVAQINEKTQALGQVAMKLGQALYEQDQANNERHDTPETEKAEGDNVVDAEFQEIDDQDKK |
| 6011 | sp|O52960|DNAK\_APHHA | MGKVIGIDLGTTNSCFAVLEGGKPLVIENVEGGRTTPSIVAFTKEKERLVGQLAKRQAVTNAENTIYSIKRFIGRRWEDTEQERNRVSYHCVPGRDKTVDVKCWGKQYTPQELSAMILQTLKAGAEAYLNETVTEAVITVPAYFTDAQRQATKDAGTIAGLNVMRIINEPTAAALAFGLDKQEQREQVLVYDLGGGTLDVSILQLGDGVFEVKATAGNNHLGGDDFDNVIVEWMLSEFQAQEGINLNEDKMAMQRLREAAERAKIELSTRPTTSINLPFITAFSKGGGEVGPKHLKLNLSRAKFNELSRPLVEKTIDPLKQAIEDSGLSVDQIDRILLVGGSTRIPEVQEALKKFFNGKEPDRSINPDEAVALGAAIQGGVLGQEQEVEDLLLLVVIPLSLGIETLGEVFTKVIERNTTIPTSKSQVFSTASDGQTSVEIHVLQGERAMANDNKTLGKFLLTGIPAAPRGVPQIEVSFDIDVNGILKVSAEDKGTGREQGIVIKETGGLSQQEIERMQQEAEQYADEDRKRMQRIELSNQADSLFYSHEATLKDNQGLIPQKVKATANKKKEELMAILEDPNVELGVIQTRLEDYRQAVLSMGSEVYSQGSSKSSARDYETVGEEEMTRETGNSQESNAAFSTQPEGTVNNDNLELEAVFSTYNDHTQGSDVATSSHDEIDLGDASDNSQTNFDLDDEDFNPFEDFDEEEEASTDDYEAVE |
| 6012 | sp|Q3SIN4|DNAK\_THIDA | MGRIIGIDLGTTNSCVAVMENGSPKVIENAEGARTTPSIVAYAEDGEILVGAPAKRQAVTNPKNTIFAVKRLIGRRFEEKEVQKDIGLMPYKIVKADNGDAWVEVRDKKMAAQQVSAEILRKMKKTAEDYLGEEVTEAVITVPAYFNDSQRQATKDAGRIAGLEVKRIINEPTAAALAFGMDKKEGDRKIAVYDLGGGTFDISIIEIAEMDGEHQFEVLSTNGDTFLGGEDFDQRLIDYIAEEFKKEQGVDLKKDVLALQRLKEAAEKAKIELSSGQQTEVNLPYITADASGPKHLAVKITRAKFESLVEELITRTIEPCKLALKDAGLTTSQIDDVILVGGQTRMPKVMDAVKDFFGKEPRRDVNPDEAVAVGAAIQGGVLQGEVKDVLLLDVTPLSLGIETLGGVMTKLIPKNTTIPTKASQVFSTADDNQSAVTVHVLQGEREMASGNKSLGQFNLSDIPPAPRGMPQIEVTFDIDANGILHVSAKDKATGKENKIRIQASSGLSEEEIQRMVKDAEANAAEDHKAFELAGARNAADAMIHSVKKSLAEYGDKVSADEKATIESALKEAEDAVREGDKETIETKTNALATASHKLAEQMYQAEQAKAQPAGETGNQSTGPGNDDVVDAEFEEVKDK |
| 6013 | sp|Q4G2J6|DER11\_MAIZE | MSSPAEYYKSLPPISKAYGTLCFFTTVLVQLQILHPLFLYLDYPLVFKKFEIWRLLTSFFFLAPFSMKFGIRLLMIARYGVMLEKGAFDKRTADFLWMMIFGAISLLVLSIIPLFNSFFLGIPMVSMLLYVWSRENPNAQINIYGLVQLRSFYLPWAMLLLDVIFGSSLMPGLLGIMVGHLYYFFAVLHPLATGKSYLKTPKWVHKIVARFRIGMQANSPVRPPANGNSGSGVFRGRSYRLNQ |
| 6014 | sp|Q92249|ERP38\_NEUCR | MVLLKSLVVASLAAAVAAKSAVLDLIPSNFDDVVLKSGKPTLVEFFAPWCGHCKNLAPVYEELATALEYAKDKVQIAKVDADAERALGKRFGVQGFPTLKFFDGKSEQPVDYKGGRDLDSLSNFIAEKTGVKARKKGSAPSLVNILNDATIKGAIGGDKNVLVAFTAPWCGHCKNLAPTWEKLAATFASDPEITIAKVDADAPTGKKSAAEYGVSGFPTIKFFPKGSTTPEDYNGGRSEADLVKFLNEKAGTHRTPGGGLDTVAGTIAALDEIVAKYTGGASLAEVAEEAKEAVKSLKNSAELKYADYYLRVLDKLSKSEGYATKEFARLEGILKKGGLAPAKVDELTVKVNVLRKFVEKAAEEAKEEL |
| 6015 | sp|Q657X6|EXEC2\_ORYSJ | MSAATACASPAAARPPLHIPLRSPPSAAHLPSAAASRRASSAACRCTASASASASPSTWDWTRWTRHFADVDQAESYASLLKFQLEEAVDNEDFAEASKLKKAILEATGNDAVAQVMSELKTAIEEQRYQDASRLTKLARTNLVGWWVGYAKDTDDSIGRIVRISPGVGRYVAKSFSPRQLVTASSGTPLFEIFLVRDDDETYTMKVVHMRPTKGTSSASSVSSATAESPAKEENESSLESSAISEGITDEANTDTTLKGDEDVEDKEQDVGNAKDSSVEGLKSVLNFFKSRIPEFKVQVINVDVSEEAELASDSSEELVQDDVKSTSENSLEDSTTEELQQDDVPDGDSDSAEDSKSPEMKLFISGVVHNKEDAGAKSYVRVPAEINNLEKDSFELYIPGKGSDRDLADTKAAKQKVADMAAKLASELMPSDVAKALWGTTKSSSKINKEVQELLKLTLSKARVKLTENTIFNRIITDSNGSDPFSGLYVGAFSPYGPEVVQLRRKFGHWNSTDEVEFFEYVEAVKLTGDLSVPAGQITFRAKIGKGKRLENRGAYPEEFGVIASYKGQGRIAQPGFKNPRWVDGELLVLNGKSTIPHLGGAELGFLYSVPEQSFLVLFDRLKLPE |
| 6016 | sp|O13820|ERG5\_SCHPO | MEMNQTETLIPAARNVIRVLGYEIEYSKWTICFALLAVCIAYDQISYQMQKGHIPGPRFKIPFMGSFLDSMKPTFEKYNAKWQTGPLSCVSVFHKFVVIASERDLARKILNSPSYVQPCVVDAGKKILKHTNWVFLDGRDHIEYRKGLNGLFTTRALASYLPAQEAVYNKYFKEFLAHSKDDYAQYMIPFRDINVATSCRTFCGYYISDDAIKHIADEYWKITAAMELVNFPIVLPFTKVWYGIQSRKVVMRYFMKAAAESRKNMEAGNAPACMMEEWIHEMIETRKYKSENKEGAEKPSVLIREFSDEEISLTFLSFLFASQDATSSAMTWLFQLLADHPDVLQKVREEQLRIRKGDIDVPLSLDLMEKMTYTRAVVKECLRLRPPVLMVPYRVKKAFPITPDYTVPKDAMVIPTLYGALHDSKVYPEPETFNPDRWAPNGLAEQSPKNWMVFGNGPHVCLGQRYAVNHLIACIGKASIMLDWKHKRTPDSDTQMIFATTFPQDMCYLKFSPFDASTVDWKNSKEAFSNEAVSAATVETESA |
| 6017 | sp|Q719I0|AHSA2\_HUMAN | MAKWGQGNPHWIVEEREDGTNVNNWRWTERDATSLSKGKFQELLVGIVVENDAGRGEINELKQVEGEASCSSRKGKLIFFYEWNIKLGWKGIVKESGVKHKGLIEIPNLSEENEVDDTEVSLSKKKGDGVILKDLMKTAGTAKVREALGDYLKALKTEFTTGMILPTKAMATQELTVKRKLSGNTLQVQASSPVALGVRIPTVALHMMELFDTTVEQLYSIFTVKELTNKKIIMKWRCGNWPEEHYAMVALNFVPTLGQTELQLKEFLSICKEENMKFCWQKQHFEEIKGSLQLTPLNG |
| 6018 | sp|Q8RW96|2A5G\_ARATH | MIKQIFGKLPRKPSKSSHNDSNPNGEGGVNSYYIPNSGISSISKPSSKSSASNSNGANGTVIAPSSTSSNRTNQVNGVYEALPSFRDVPTSEKPNLFIKKLSMCCVVFDFNDPSKNLREKEIKRQTLLELVDYIATVSTKLSDAAMQEIAKVAVVNLFRTFPSANHESKILETLDVDDEEPALEPAWPHLQVVYELLLRFVASPMTDAKLAKRYIDHSFVLKLLDLFDSEDQREREYLKTILHRIYGKFMVHRPFIRKAINNIFYRFIFETEKHNGIAELLEILGSIINGFALPLKEEHKLFLIRALIPLHRPKCASAYHQQLSYCIVQFVEKDFKLADTVIRGLLKYWPVTNSSKEVMFLGELEEVLEATQAAEFQRCMVPLFRQIARCLNSSHFQVAERALFLWNNDHIRNLITQNHKVIMPIVFPAMERNTRGHWNQAVQSLTLNVRKVMAETDQILFDECLAKFQEDEANETEVVAKREATWKLLEELAASKSVSNEAVLVPRFSSSVTLATGKTSGS |
| 6019 | sp|P38356|BSD2\_YEAST | MPEQELLIGQEMNTLHAGSSTDGINVGNAGRTRDTQTGVEGETEIGSDEEDSIEDEGSSSGGNSTTERLVPHQLREQAARHIGKIGRHFNILDRLFKKRTQQSSDIQQGAMFDGVFSNLSAKPDTTETEGNNEQDIPPTYDEAAADMAPSYYGMDLNNSDIYYDEICIEGLPVGNIANLLWNIIVSTSFQFIGFLITYILHTSHAAKQGSRFGLGLTFIGYGYSMIPNDVTSKVGKNKSLNRMELEDPNEFDDVRLNSQSTTQDKFESHLNHGLDEEKQNIPWLAVFVAFLGLFITLKSIYDYIQVKKLEKKYLNQSQNQA |
| 6020 | sp|Q46664|CSPA\_KLEAK | MSGKMTGIVKWFNADKGFGFITPDDGSKDVFVHFSAIQNDGYKSLDEGQKVSFTIESGAKGPAAGNVTSL |
| 6021 | sp|O31673|CLPE\_BACSU | MRCQHCHQNEATIRLNMQINSVHKQMVLCETCYNELTRKPSMSMGPQSFGFPFEQAFQPKEQSAAKQSEKKGLLDELAQNITNGAKAGLIDPVIGRDDEVARVIEILNRRNKNNPVLIGEPGVGKTAIAEGLALKIAEGDVPNKLKNKELYLLDVASLVANTGIRGQFEERMKQLITELKERKNVILFIDEIHLLVGAGSAEGSMDAGNILKPALARGELQVIGATTLKEYRQIEKDAALERRFQPVMVQEPSIEQAILILQGIKDKYEAYHGVTFSDEAIKACVTLSSRYIQDRHLPDKAIDLLDEAGSKANLLIDELNDEDAAERLTAIEAEKTKALEEENYELAAKLRDEELALEKKLNSSSAHTAVTVEAEHIQEIVEQKTGIPVGKLQADEQTKMKELEAKLHERVIGQEAAVQKVAKAVRRSRAGLKSKNRPVGSFLFVGPTGVGKTELSKTLADELFGTKDAIIRLDMSEYMEKHAVSKIIGSPPGYVGHEEAGQLTEKVRRNPYSIVLLDEIEKAHPDVQHMFLQIMEDGRLTDSQGRTVSFKDTVIIMTSNAGAGEKQTKVGFQSDDSVIEEQTLIDSLSMFFKPEFLNRFDSIIEFRSLEKEHLVKIVSLLLGELEETLAERGISLNVTDEAKEKIAELGYHPSFGARPLRRTIQEWVEDEMTDLLLDNGEITSFHVILEDDKIKVRAK |
| 6022 | sp|P0A9Y3|CSPA\_SALTI | MSGKMTGIVKWFNADKGFGFITPDDGSKDVFVHFSAIQNDGYKSLDEGQKVSFTIESGAKGPAAGNVTSL |
| 6023 | sp|Q8CRP6|CSHA\_STAES | MQNFKELGISDKTVQTLEAMGFKEPTPIQKDSIPYALEGDDILGQAQTGTGKTGAFGIPLIEKVVGQQGVQSLILAPTRELAMQVAEQLREFSKGQKVQVVTVFGGMPIERQIKVLKRGPQIVVGTPGRVIDHLNRRTLKTQGIHTLILDEADEMMNMGFIDDMRFIMDKIPAEQRQTMLFSATMPKAIQELVQQFMKAPKIIKTMNNEMSDPQIDEYYTIVKELEKFDTFTNFLDVHQPELAIVFGRTKRRVDELTSALLSKGYKAEGLHGDITQAKRLEVLKKFKNDQIDILVATDVAARGLDISGVSHVYNFDIPQDTESYTHRIGRTGRAGKEGIAVTFVNPIEMDYIRQIEDVNNRRMKALRPPHRKEVLKAREDDIKDRVQNWMSRENEPRLQRISSELLKEYDSTELVASLLQELVEANDEVEVQLTFEKPLARKNRSSKGGSRRSNHKRGNGKFDNKNRRSKGSKGQSSKKKNQKKFDRRDKQQKSGNQSLKGRTFADHQK |
| 6024 | sp|P14607|DDIT3\_CRIGR | MAAESLPFTLETVSSWELEAWYEDLQEVLSSDENGGPYSSSLGNEEGESKTFTTLDPASLAWLTEEPGPAEVTSSSQSPRSPDSSQSCMAQEEEEDQGRTRKRKQSGQCPARGTGKQRMKEKEQENERKVAQLAEENERLKQEIERLTREVEATRPGSDRPHVNLQQV |
| 6025 | sp|A4XSC0|DEGPL\_PSEMY | MRNLKSVTPLLMAALLWGQSLLAQASLPDFTALVEEASPAVVNISTRQKMPERSVAAQPGLPDLEGLPPMFREFFERSIPQMPRNPGGRQREAQSLGSGFIISADGYVLTNNHVVADADEIIVRLSDRSELEAKLIGADPRSDVALLKVEGKGLPTVRLGKSDELKVGEWVLAIGSPFGFDHSVTAGIVSAKGRNLPSDSYVPFIQTDVAINPGNSGGPLFNLKGEVVGINSQIFTRSGGFMGLSFAIPMEVALQVSEQLKADGKVTRGWLGVVIQEVNKDLAESFGLDRPAGALVAQVLEDGPADKGGLQVGDVILSLNGKPIVMSADLPHLVGGLKPGEKAEMDVVRDGSRKKLKVTIGTLPEEGQELAAAGSTKGGERSSNRLGVTVVELTAEQKKGLDLRGGVVVKEVLSGPAAMIGLRPGDVITHLNNQAIDSTATFAKVAQELPKNRSVSMRVLRQGRASFITFKLAE |
| 6026 | sp|O24115|DEF1\_NICPA | MARSLCFMAFAVLAMMLFVAYEVQAKSTCKAESNTFPGLCITKPPCRKACLSEKFTDGKCSKILRRCICYKPCVFDGKMIQTGAENLAEEAETLAAALLEEEMMDN |
| 6027 | sp|Q0AKB1|DNAK\_MARMM | MSKVIGIDLGTTNSCVAVMESGQPKVIENSEGVRTTPSVVAFTEDGERLIGQPAKRQAVTNPDYTFFAIKRLIGRMMDDPTVKKDIDMVPYKIVPSDSNDAWVQGRDKKYSPSEISAFTLQKMKETAESYLGEKVEKAVITVPAYFDDAQRQATKDAGKIAGLEVLRIINEPTAAALAYGLDKGENKTIAVFDLGGGTFDVSVLEIGDGVFEVKATNGDTFLGGEDFDMRIVQYLADEFKKENGIDLKSDKLALQRLKEEAEKAKKELSSATSYEVNLPFITADASGPKHLNIKLSRAKLEALVEDLVKRTLEPCKKALKDAGLSPSDIDDIVLVGGMTRMPKVQEAVKGFFGKDPHKGVNPDEVVAMGAAIQAGVLQGDVKDVLLLDVTPLSLGIETLGGVFTRLIDRNTTIPTKKSQTFSTADDNQTAVTIRVSQGEREMAADNKLLGQFDLVGIPPSPRGLPQIEVTFDIDANGIVNVSAKDKATGKEQQIRIQASGGLSDDDIEQMVKDAEANADADKKKKELVEAHNGAEAMIHQTEKQLEEFGDKVPGEDKDAIDAALTELKEVKDGEDLEAIQQKTQALVQAAMKLGEAMYAAQQTEAAEADAKSDAEGDEDVVDAEFSEVDDDKKKDA |
| 6028 | sp|G5EFS4|DCPS\_CAEEL | MKRIADEELVREERAEESTQKWLQDAKFQEILGADSSHKSLFVLLSHPDGSQGILLANKSPFSEEKSDIEKLLATAQLQEISRNDIFGSYNIEIDPKLNLLKSQLIYPINDRLIAKYRQEEKFVIRETPELYETVTRPYIEKYQLNLNWVYNCLEKRSEVDKIVFEDPDNENGFVLLQDIKWDGKTLENLYVLAICHRHGLKSVRDLTGDDLEMLYNMRDKSLEAINQKYGLKTDQIKCYFHYQPSFYHLHVHFINLKYDAPASTTMSAILLDDVINNLELNPEHYKKSTLTFTRKNGDKLMEMFREALKN |
| 6029 | sp|B0V5U4|DNAK\_ACIBY | MAKIIGIDLGTTNSCVAVLEGDKVKVIENAEGARTTPSIIAYKDGEILVGQSAKRQAVTNPKNTLFAIKRLIGRRYEDQAVQKDIGLVPYKIIKADNGDAWVEVNDKKLAPQQISAEILKKMKKTAEDYLGETVTEAVITVPAYFNDAQRQATKDAGKIAGLDVKRIINEPTAAALAFGMDKKEGDRKVAVYDLGGGTFDVSIIEIADLDGDQQIEVLSTNGDTFLGGEDFDNALIEYLVEEFKKEQNVNLKNDPLALQRLKEAAEKAKIELSSSNATEINLPYITADATGPKHLVINVTRAKLEGLVADLVARTIEPCKIALKDAGLSTSDISDVILVGGQSRMPLVQQKVQEFFGREPRKDVNPDEAVAIGAAIQGAVLSGDKNDVLLLDVTPLTLGIETMGGVLTPIIEKNTTIPAKKSQVFSTAADNQPAVDISVYQGERKMAQQNKLLGNFQLGDIPPAPRGVPQIEVSFDINADGILKVSAKDKSTGKEQSIQIKANSGLSDAEIEAMIKDAEANAEEDRKFEELAKARNEADALISSSNKAVKDLGDKVTEDEKTAVNTAVSELEAATKENDVEVIKAKTEALQNILMPITQRAYEQAQQAGGAEGFDPNAFQGGDAGQQKADDGVVDAEFTEVKDDKK |
| 6030 | sp|B0BTI7|DNAK\_ACTPJ | MGKIIGIDLGTTNSCVAVMDGDKARVIENAEGARTTPSIIAYTDNETLVGQPAKRQAITNPKNTLFAIKRLIGRRFESEEVQRDIKIMPFEITRADNGDAWVNVKGDKLAPPQISAEVLKKMKKTAEDFLGEAVTEAVITVPAYFNDAQRQATIDAGRIAGLDVKRIINEPTAAALAFGLGSTKENQVIAVYDLGGGTFDISIIEIDNFDGEQTFEVLATGGNTHLGGEDFDNRVIDYIIDEFKKEQGVDLRNDPMALQRVKEAAEKAKIELSSAQSTEVNLPYITADATGPKHLAINVTRAKLEALVEDLVASSIESLKTVLKDAGKSVNEINDIILVGGQTRMPLVQQKVAEFFGKEARKDVNPDEAVAIGAAVQGGVLKGDVKDVLLLDVTPLSLGIETMGGVMTVLIEKNTTIPTKKSQVFSTAEDNQSAVTIHVLQGERKQASANKSLGQFNLEGINPAPRGMPQIEVTFDIDANGVINVSAKDKNTGKEQQIRIQASSGLSDEEIEQMVRDAEANAEADKKFEELVQARNQADGIAHATRKQIEEAGDALNADDKAKIEAAIADLEKAAKGDDKAEIDAKTEALIKASEPLMQAAQAKAQQAGGEQPQAKKDDGVVDAEFEEVKDNK |
| 6031 | sp|B2S0M0|DNAK\_BORHD | MGKIIGIDLGTTNSCVAIMEHGKPVVIQNSEGGRTTPSIVAYTNKGERLVGQVAKNQMVTNPENTIYSIKRFMGRRFEEVASEIKMVPYKVEKGQNGDARVNISNIKKQMSPPEISAATLTKMKETAEAYLGETVTEAVITVPAYFNDAQRQATKDAGKIAGLDVKRIVNEPTAAALAYGIEKKNEEIVAVYDLGGGTFDISILELGDGVFEVKSTNGDTHLGGDNFDDEIIKHLITEFKKDSAIDLSNDKMALQRLKEAAEKAKIELSSAQEASINLPFITADANGPKHLQYTLTRAKFEQMVDHLVQKTKEPCLNAIKDAGLKASDINEVILVGGSTRIPAIQKIVKEIFAQEPNKGVNPDEAVAIGAAIQGGILTGETKDMVLLDVTPLSLGIETLGGVMTKLIERNTTIPTKKSQVFSTAADNQTSVDIKVLQGEREMASQNRVLGNFILDGIPAAPRGVPQIEVSFDIDANGIVHVSAKDMGTGKEQKIRIESSSGLSEEEIERMVRDAEAHAEEDKKLKESIETKNIANSLIYQTEKSLKEYGDKITSEDKEAIENKIKELKDALEGSDVSSIKSKTEELQQASYKIAEMMYKDAQASSSNQDNAQNNAGSESKEADYEVVDEDKK |
| 6032 | sp|Q6G1F9|DNAK\_BARQU | MAKVIGIDLGTTNSCVAVMDGKNAKVIENSEGARTTPSVVAFTDGGERLVGQPAKRQAVTNPEGTIFAVKRLIGRRFDDPMVEKDKALVPYKIVKGDNGDAWVEEAGKKYSPSQISAMILQKMKETAESYLGEKVEQAVITVPAYFNDAQRQATKDAGKIAGLEVLRIINEPTAAALAYGLDKKDGKTIAVYDLGGGTFDISVLEIGDGVFEVKSTNGDTFLGGEDFDMRLVGYFADEFKKEQGIDLKNDKLALQRLKEAAEKAKIELSSSQQTEINLPFITADQSGPKHLTMKLTRAKFESLVDDLVQRTIEPCKAALKDAGLKAGEIDEVVLVGGMTRMPKIQEVVQSFFGKDPHKGVNPDEVVAMGAAIQGGVLQGDVKDVLLLDVTPLSLGIETLGGVFTRLIERNTTIPTKKSQVFSTADDNQNAVTIRVFQGEREMANDNKLLAQFDLVGIPPAPRGVPQIEVTFDIDANGIVNVSAKDKGTGKEHQIRIQASGGLSDADIEKMVKDAEEHAAEDKKRREGVEARNQAEALIHSTEKSLTEYGDKISTEEKEQIETAISDLKSALDGTDPEEVTAKMQKLAEVSMKLGQAMYEASQAATANTETDTKSDDVVDADFEEISDKKK |
| 6033 | sp|P50025|DNAJ\_LEGPN | MEQRDYYELLEVSRNASDAEIKKAYRRLAMKYHPDRNPGDTSAEEKFKEIQKAYNILSDKQKRAAYDQFGHAGVDPSMGGGPGGFGGFGGFGDVFEDIFENIFSGGRGHGRQSRGQRGADLQFNVQLTLEEAAIGKEVEITVPRHGTCTVCEGSGAKKGTSPKTCETCQGMGQVRIQQGFFSIQQTCPTCHGEGKIISDPCASCHGQGRVRESKKINVKIPAGVDNGDRVRLSGEGEAGVHGGGSGDLYVQISLKKHAIFERHENDLHCEVPISFATAALGGSIEVPTLEGRVTLKIPAETQTGKVFRLRSKGMKSVRGYGQGDLLCKVVVETPVNLSREQKELLNKLQDSLENAKGTHSPKTSSWFAGVKKFFEDMKF |
| 6034 | sp|Q3MG81|DNAJ\_TRIV2 | MARDYYEILGVARDADKEEIKQAYRRLARKYHPDVNKEPGAEERFKEINRAYEVLSEPETRARYDRFGPEGVSGAGVGFQDMSDMGGFADIFESIFSGFAGGGMGGPTQQRRRGGPARGDDLRLDLKLDFREAVFGGEKEIRISHLETCETCSGSGAKPGTRPRTCSTCSGSGQVRRVTRTPFGSFTQVSTCPTCNGTGMVIEDKCDACDGKGTNQVTKKLKITIPAGVDNGTRLRIQQEGDAGQRGGPPGDLYVYLFVNEDEEFQRDGINVISEIKVSYLQAILGCRLEVNTVDGPVELIIPAGTQPNTVMKLENRGVPRLGNPVSRGDHLLTVLIDIPTKVIPEERELLEKLAKIKGDRTGKGGLEGFLGNLFK |
| 6035 | sp|Q3B577|DNAK\_PELLD | MGKIIGIDLGTTNSCVAVMQGTQPTVIENSEGNRTTPSMVAFTKTGDRLVGQAAKRQAITNPKNTIFSIKRFIGRKFDEVPNEKKIAPYEVVNEGGEARVKINDKTYSPQEVSAMILQKMKQTAEDFLGEKVTEAVITVPAYFNDAQRQATKDAGRIAGLEVKRIINEPTAAALAYGLDRKQTSEKVAVFDLGGGTFDISILELGDGVFEVKSTDGDTHLGGDDFDQKIIDFLADEFKKQEGVDLRNDAIALQRLKEAGEKAKVELSSRTDTEINLPFITATPEGPKHLVINLTRAKFEGMCSDLFDKILEPCRRAVKNSKVEMKDIDEIVLVGGSTRIPKVQALVKEFFGKEPNRSVNPDEVVAIGAAIQGGVLKGDVTDVLLLDVTPLSLGIETLGGVMTKLIDANTTIPTRKQEVFSTAGDNQTSVEVHVLQGERPLAVDNKTLGRFHLGDIPPAPRGMPQIEVTFDIDSNGILNVSAKDKATGKEQSIKIESSSKLTDAEVEKMKEDAKVHAEEDQKRKEEIEVKNSADSLIFSTEKQLSELGEKIPADKKPVIEGALEKLKDAHKNGTIESIKGAMDELSKVWGEVASNLYQAEAPGADAPEGQAPQDGGSKKGGEGAVENAEYEVIDGDGK |
| 6036 | sp|A4SZR8|DNAK\_POLAQ | MGKIIGIDLGTTNSCVSVVENNAPKVVENAEGGRTTPSIIAYVEDGEVLVGAPAKRQSVTNPKNTIYAVKRLMGRKFTDPEVQKDIGLMPYSIIAADNGDAWVEARDRKMAPQQVSAEILRKMKKTAEDYLGEEVTEAVITVPAYFNDSQRQATKDAGRIAGLDVKRIINEPTAAALAFGLDKQDKVDRKIAVYDLGGGTFDVSIIEIANVDGEKQFEVLSTNGDTFLGGEDFDQRIIDWIIAEFKKEQGVDLSKDVLALQRLKDAAEKAKIELSSAQQTEINLPYVTADASGPKHLNLKLTRAKLESLVEELINRTAGPCLTAIKDAGVNVSEIDDVILVGGQTRMPAVQDKVKEIFGKEPRKDVNPDEAVAVGAAIQGSVLSGDRKDVLLLDVTPLSLGIETLGGVMTKMIPKNTTIPTKHSQVYSTAEDNQPAVTIKCFQGEREMAAANKLLGEFNLEGIAPAQRGMPQIEVTFDIDANGILHVTAKDKTTGKENKITIKANSGLTEEEIQRMVKDAEANAAEDKKALELVTARNTADALAHSTKKALEEHGASLEASEKEAIEAALKELDEAIKGSDKEAIEAKTEALGKASQKLGEKVMAAEQAKSGGAAPGAAPGGAQQAAPDADVVDADFKEVDDKK |
| 6037 | sp|Q5F6W5|DNAK\_NEIG1 | MAKVIGIDLGTTNSCLAISENGQTKVIENAEGARTTPSIIAYLDGGEILVGAPAKRQAVTNAKNTIYAAKRLIGHKFEDKEVQRDIESMPFEIIKADNGDAWVKAQGKELSPPQISAEVLRKMKEAAEAYLGEKVTEAVITVPAYFNDSQRQATKDAGRIAGLDVKRIINEPTAAALAFGMDKGDNKDRKIAVYDLGGGTFDISIIEIANLDGDKQFEVLATNGDTFLGGEDFDQRLIDYIIDEFKKEQGIDLKQDVMALQRLKEAAEKAKIELSSGQQTEINLPYITMDATGPKHLAMKITRAKFESLVEDLIARSIEPCRTALKDAGLSTGDIDDVILVGGQSRMPKVQEAVKDFFGKEPRKDVNPDEAVAVGAAIQGEVLSGGRSDVLLLDVTPLSLGIETMGGVMTKLIQKNTTIPTKASQVFSTAEDNQSAVTIHVLQGERERASANKSLGQFNLGDIAPAPRGMPQIEVTFDIDANGILHVSAKDKGTGKAANITIQGSSGLSEEEIERMVKDAEANAEEDKKLTELVASRNQAEALIHSVKKSLADYGDKLDAAEKEKIEAALKEAEEAVKGDDKTAIDAKAEALGTASQKLGEMVYAQAQAEAQAGEGAQANASAKKDDDVVDADFEEVKDDKK |
| 6038 | sp|Q3Z6P1|DNAK\_DEHM1 | MAKVVGIDLGTTNSEVAVMQGGEPVVIPSAEGSTLIPSVVAVNKNGERIVGRQAKNQAILNPENTVYSIKRFMGRKWGEPAGRELPVEADAKRKPYKVIQGNNNEVRVVMGDKDFSPPEVSAMILQKLKSDAEAYLGEKVTEAVITVPAYFNDAQRQATKDAGAIAGLKVLRIINEPTAAALAYGLDKKKDETIAVYDLGGGTFDISILELGEGTFQVKSTAGDTHLGGDDFDQKIIDWLIAEYKKDQGIDLSKDKTALQRLKEAAEKAKIELSTVQQAEINLPFITADASGPKHLNIILTRAKLEQMVMDLVDKSLEPCRQALKDSGKTASEINEVILVGGQTRMPLVQQKVKEFFGKEPNKGVNPDEVVAIGAAIQAGVLKGEVSDVLLLDVIPLTLGIETLGGVSTALITRNTTIPTSKSQVFSTAADNQPSVEIHVLQGERPMAADNRTLGRFMLDGILPAPRGVPQIEVTFDIDANGILSVKAKDKGTGREQKITITASSGLSKEEVEKMTREAEAHAAEDSKRKEEIEARNVADNLAYNAEKTLRDNKDKIPAELNTELESKIAAVRTALQGTDVDAIKTTTQELSTALQSVGSAVYGQQQEQGAPAQEEPSAEGKKNDDEGTVEGEFREV |
| 6039 | sp|B8F7S6|DNAK\_HAEPS | MGKIIGIDLGTTNSCVAVMDGDKPRVIENAEGARTTPSIIAYTDKETLVGQPAKRQAITNPKNTLFAIKRLIGRRFTDSEVQRDIEIMPFEITKADNGDAWVSVKGEKMAPPQISAEVLKKMKKTAEDFLGEPVTEAVITVPAYFSDAQRQATKDAGRIAGLEVKRIINEPTAAALAYGLDSKKENQIVAVYDLGGGTFDLSIIEIDNLDGEQTFEVRATNGDTHLGGEDFDNRLINYLVEEFQKEQGVDLRNDSMAMQRVKEAAEKAKIELSSAQSTEVNLPYITADATGPKHLVLTVTRAKLEALVEDLVNRSLEPVKVALADAGLSVSEINDVILVGGQTRMPLVQKKVADFFGKEPRKDVNPDEAVAIGAAVQGGVLAGDVTDVLLLDVTPLSLGIETMGGVMTTLIEKNTTIPTKKSQVFSTAEDNQSAVTIHVLQGERKRASDNKSLGQFNLEGINPAPRGMPQIEVTFDIDANGIINVSAKDKNTGKEQQIKIQASSGLSDAEIEQMVRDAEANAEADRKFEELVQTRNQADAIAHSTRKQIAEAGSNLADADKAKIEEAVAALEKAAKGEDKADIEAKIEALVKASEPLIQAGQAQAQQGQQQAQQSQKDDGVVDAEFEEVKDNK |
| 6040 | sp|B6JPL0|DNAK\_HELP2 | MGKVIGIDLGTTNSAMAVYEGNEAKIIANKEGKNTTPSIVAFTDKGEILVGESAKRQAVTNPEKTIYSIKRIMGLMFNEDKAKEAEKRLPYKIVDRNGACAIEISGKVYTPQEISAKILMKLKEDAESYLGESVTEAVITVPAYFNDSQRKATKEAGTIAGLNVLRIINEPTSAALAYGLDKKESEKIMVYDLGGGTFDVTVLETGDNVVEVLATGGDAFLGGDDFDNRVIDFLASEFKSETGIEIKNDVMALQRLKEAAENAKKELSSAMETEINLPFITADATGPKHLVKKLTRAKFESLTEDLMEETISKIESVIKDAGLTKNEISEVVMVGGSTRIPKVQERVKAFINKELNKSVNPDEVVAVGASIQGGVLKGDVKDVLLLDVTPLSLGIETLGGVMTKVIDRGTTIPAKKSQVFSTAEDNQPAVSIMVLQGERELARDNKSLGKFDLQGIAPAPRGVPQIEVTFDIDANGILTVSAQDKNTGKSQEIKISGSSGLSDSEIEKMVKDAELHKEEDARKKEVIEARNHADSLAHQTQKSLDEHKTNLNENDANEIQNAINALKDCVKNDNATKAELEDKTKLLAQAAQKLGEAMANKNNAEQPKKKDDDVIDAEVE |
| 6041 | sp|A3DF25|DNAK\_HUNT2 | MGKVIGIDLGTTNSCVAVMEGGEPVVIPNSEGSRTTPSVVAFTKNNERLVGQVAKRQAITNPERTIISIKRDMGTDKRVKIDDKSYTPQEISAMILQKIKADAEAYLGEKVTQAVITVPAYFSDSQRQATKDAGRIAGLEVLRIINEPTAAALAYGLDKESDQKILVFDLGGGTFDVSILEIGDGVFEVLATSGNNRLGGDDFDQRIIDYLIDLFKKEHGIDLSTDKMAMQRLKEAAEKAKIELSGVTTTNINLPFITADANGPKHLDVTLTRAKFEELTADLVEKTMEPTRRALEDSGLTPDKIDKILLVGGSTRIPAVQEAVRKFFGKEPFKGINPDECVAIGAAIQAGVLTGEVKDLLLLDVTPLSLGIETLGGVFTKLIERNTTIPTKKSQIFSTAADGQTAVTVRVFQGERAMAADNKLLGEFTLDGIPPAPKGVPQIEVTFDIDANGIVHVSAKDLGTGKEQHITITASTNLSEAEIEKAINEAKKYEEEDRKRKESAETRNNADSMVFQAEKTLKDLGDKLSSEDKAKIEAEIEKVREALKGTDTQAIKKATEDLQQAFYSVSAKIYQQGQAAGANPGAQTTGGEQGNVYDAEYKVVDDDK |
| 6042 | sp|B1LFU5|DNAJ\_ECOSM | MAKQDYYEILGVSKTAEEREIKKAYKRLAMKYHPDRNQGDKEAEAKFKEIKEAYEVLTDSQKRAAYDQYGHAAFEQGGMGGGGFGGGADFSDIFGDVFGDIFGGGRGRQRAARGADLRYNMELTLEEAVRGVTKEIRIPTLEECDVCHGSGAKPGTQPQTCPTCHGSGQVQMRQGFFAVQQTCPHCQGRGTLIKDPCNKCHGHGRVERSKTLSVKIPAGVDTGDRIRLAGEGEAGEHGAPAGDLYVQVQVKQHPIFEREGNNLYCEVPINFAMAALGGEIEVPTLDGRVKLKVPGETQTGKLFRMRGKGVKSVRGGAQGDLLCRVVVETPVGLNEKQKQLLQELQESFGGPTGEHNSPRSKSFFDGVKKFFDDLTR |
| 6043 | sp|Q9FMX6|DJC76\_ARATH | MTPAIFSPTTLPPSTATWPCSTSQKLITVRSPLKFKCRATSSSSSITDFDLYDLLGIDRSSDKSQIKSAYRALQKRCHPDIAGDPGHDMAIILNEAYQLLSDPISRQAYDKEQAKLEELRGYTGKPIYSVWCGPETEQRAAFVDEVKCVGCLKCALCAEKTFAIETAYGRARVVAQWADPESKIKEAIEACPVDCISMVERSDLAPLEFLMSKQPRGNVRIGVGNTVGERVSNVFVDVKKFQERYAKAMSRTTKETSQREVQISAVEAIRSISNWLYWRSSPYTKPLSPESNMSLTFTKRKKAVDPDIRKLQDVVAAMKQADQSGRTKEKGSAYLLGEDYWSPSNAALPSSGNNNGSKASSNPQVTRKTFPSEEKPTSRRENRRQFRIKKFPIGTAIVAVFLVQYQASYRAASELNDHIGGSLALSIVNSPWQQILLAGVTWYFIGAMLLQLVEAVQHKLEDKET |
| 6044 | sp|Q7NXI3|DNAK\_CHRVO | MGKIIGIDLGTTNSCVAVVEGGNPKVIENAEGNRTTPSIIAYVEDGEILVGAPAKRQAVTNPKNTIYAAKRLIGRRFEDKEVQKDIDLMPFEILKAKNGDAWVKVRDQELAPPQISAEVLRKMKKAAEDYLGEEVTEAVITVPAYFNDSQRQATKDAGRIAGLEVKRIINEPTAAALAFGLAKQEGDRKIAVYDLGGGTFDVSIIEIADVDGEHQFEVLSTNGDTFLGGEDFDQRLIDYIVTEFKKEQGVDLKQDVMALQRLKEAAEKAKIELSSATQTEVNLPYITMDATGPKHLAMKITRAKFESLVDDLIARSIEPCRVALKDAGVSLSDITDVILVGGQTRMPKVQDAVKEFFGKEPRKDVNPDEAVAVGAAIQGSVLSGDRKDVLLLDVTPLSLGIETLGGVMTKLIQKNTTIPTKASQTFSTADDNQTAVTIHVLQGEREKAAANKSLGQFNLGDIPPAPRGIPQIEVEFNIDANGILHVSAKDKATGKQANITIQASSGLSEAEIERMVKDAEANAEEDKKLHELVTARNHAEGLIHSIKKSLGEHGDKIGADEKAKIESALKEAEEVVKGDDKEAIEAKAEELAKASQKLGEIMYAQAQAEAGAQGGAEQAEAGKKDEGNVVDAEFEEVKKDKA |
| 6045 | sp|O34241|DNAK\_VIBCH | MGKIIGIDLGTTNSCVAVLDGDKPRVIENAEGERTTPSVIAYTDGETLVGQPAKRQAVTNPQNTLFAIKRLIGRRFEDEEVQRDIKIMPYKIVKADNGDAWVEAKGQKMAAPQVSAEVLKKMKKTAEDFLGEPVTAAVITVPAYFNDAQRQATKDAGRIAGLEVKRIINEPTAAALAYGLDKQGGDRTIAVYDLGGGTFDISIIEIDEVEGEKTFEVLSTNGDTHLGGEDFDNRMINYLVDEFKKDQGIDLRNDPLAMQRLKEAAEKAKIELSSAQQTDVNLPYITADATGPKHMNIKVTRAKLEALVEDLVQRSLEPLKVALADADLSVNDITDVILVGGQTRMPMVQKKVAEFFGKEPRKDVNPDEAVAVGAAVQGGVLAGEVKDVLLLDVTPLSLGIETMGGVMTKLIEKNTTIPTKANQVFSTAEDNQSAVTIHVLQGERKQAMYNKSLGQFNLEGINPAPRGMPQIEVIFDLDADGILHVSAKDKQTGKEQKITIQASGGLSDAEIEKMVQEAEANKEADKKFEELATARNQADQMIHATRKQITEAGEALPADEKAKIETAINELETAKKGEDKAEIDAKVQALMAAAQKLMEIAQQQAQAQGANAGQSSAKEDDVVDAEFEEVNDDKK |
| 6046 | sp|P0AEJ4|ENVZ\_ECOLI | MRRLRFSPRSSFARTLLLIVTLLFASLVTTYLVVLNFAILPSLQQFNKVLAYEVRMLMTDKLQLEDGTQLVVPPAFRREIYRELGISLYSNEAAEEAGLRWAQHYEFLSHQMAQQLGGPTEVRVEVNKSSPVVWLKTWLSPNIWVRVPLTEIHQGDFSPLFRYTLAIMLLAIGGAWLFIRIQNRPLVDLEHAALQVGKGIIPPPLREYGASEVRSVTRAFNHMAAGVKQLADDRTLLMAGVSHDLRTPLTRIRLATEMMSEQDGYLAESINKDIEECNAIIEQFIDYLRTGQEMPMEMADLNAVLGEVIAAESGYEREIETALYPGSIEVKMHPLSIKRAVANMVVNAARYGNGWIKVSSGTEPNRAWFQVEDDGPGIAPEQRKHLFQPFVRGDSARTISGTGLGLAIVQRIVDNHNGMLELGTSERGGLSIRAWLPVPVTRAQGTTKEG |
| 6047 | sp|A0A0H3NIL4|ENVZ\_SALTS | MRRMRFSPRSSFARTLLLIVTLLFVSLVTTYLVVLNFAILPSLQQFNKVLAYEVRMLMTDKLQLEDGTQLVVPPAFRREIYRELGISLYTNEAAEEAGLRWAQHYEFLSHQMAQQLGGPTEVRVEVNKSSPVVWLKTWLSPNIWVRVPLTEIHQGDFSPLFRYTLAIMLLAIGGAWLFIRIQNRPLVDLEHAALQVGKGIIPPPLREYGASEVRSVTRAFNHMAAGVKQLADDRTLLMAGVSHDLRTPLTRIRLATEMMGEEDGYLAESINKDIEECNAIIEQFIDYLRTGQEMPMEMADLNSVLGEVIAAESGYEREINTALQAGSIQVKMHPLSIKRAVANMVVNAARYGNGWIKVSSGTESHRAWFQVEDDGPGIKPEQRKHLFQPFVRGDSARSTSGTGLGLAIVQRIIDNHNGMLEIGTSERGGLSIRAWLPVPVARVQGTTKEA |
| 6048 | sp|Q9STX5|ENPL\_ARATH | MRKRTLVSVLFLFSLLFLLPDQGRKLHANAEESSDDVTDPPKVEEKIGGHGGLSTDSDVVHRESESMSKKTLRSNAEKFEFQAEVSRLMDIIINSLYSNKDIFLRELISNASDALDKIRFLALTDKDVLGEGDTAKLEIQIKLDKAKKILSIRDRGIGMTKEDLIKNLGTIAKSGTSAFVEKMQSSGDLNLIGQFGVGFYSAYLVADYIEVISKHNDDSQYVWESKANGKFAVSEDTWNEPLGRGTEIRLHLRDEAGEYLEESKLKELVKRYSEFINFPISLWASKEVETEVPVEEDESADEETETTSTEEEKEEDAEEEDGEKKQKTKKVKETVYEWELLNDVKAIWLRSPKEVTEEEYTKFYHSLSKDFTDEKPMAWSHFNAEGDVEFKAVLYVPPKAPHDLYESYYNSNKANLKLYVRRVFISDEFDELLPKYLSFLKGLVDSDTLPLNVSREMLQQHSSLKTIKKKLIRKALDMIRKLAEEDPDEIHDDEKKDVEKSGENDEKKGQYTKFWNEFGKSVKLGIIEDAANRNRLAKLLRFETTKSDGKLTSLDQYIKRMKKSQKDIFYITGSSKEQLEKSPFLERLIKKGYEVIFFTDPVDEYLMQYLMDYEDKKFQNVSKEGLKVGKDSKDKELKEAFKELTKWWKGNLASENVDDVKISNRLADTPCVVVTSKFGWSANMERIMQSQTLSDANKQAYMRGKRVLEINPRHPIIKELKDRIASDPEDESVKETAQLMYQTALIESGFILTDPKDFAARIYNSVKSGLNISPDAVADEEIEAAEEPETSEATETKSDDLAGGLNIEAEPVEQQEENTKDEL |
| 6049 | sp|P51813|BMX\_HUMAN | MDTKSILEELLLKRSQQKKKMSPNNYKERLFVLTKTNLSYYEYDKMKRGSRKGSIEIKKIRCVEKVNLEEQTPVERQYPFQIVYKDGLLYVYASNEESRSQWLKALQKEIRGNPHLLVKYHSGFFVDGKFLCCQQSCKAAPGCTLWEAYANLHTAVNEEKHRVPTFPDRVLKIPRAVPVLKMDAPSSSTTLAQYDNESKKNYGSQPPSSSTSLAQYDSNSKKIYGSQPNFNMQYIPREDFPDWWQVRKLKSSSSSEDVASSNQKERNVNHTTSKISWEFPESSSSEEEENLDDYDWFAGNISRSQSEQLLRQKGKEGAFMVRNSSQVGMYTVSLFSKAVNDKKGTVKHYHVHTNAENKLYLAENYCFDSIPKLIHYHQHNSAGMITRLRHPVSTKANKVPDSVSLGNGIWELKREEITLLKELGSGQFGVVQLGKWKGQYDVAVKMIKEGSMSEDEFFQEAQTMMKLSHPKLVKFYGVCSKEYPIYIVTEYISNGCLLNYLRSHGKGLEPSQLLEMCYDVCEGMAFLESHQFIHRDLAARNCLVDRDLCVKVSDFGMTRYVLDDQYVSSVGTKFPVKWSAPEVFHYFKYSSKSDVWAFGILMWEVFSLGKQPYDLYDNSQVVLKVSQGHRLYRPHLASDTIYQIMYSCWHELPEKRPTFQQLLSSIEPLREKDKH |
| 6050 | sp|B5XIW8|CH10\_STRPZ | MLKPLGDRVVVRFDDEKEQTVGGFVLAGTHKESTRKATVLAVSETGVRTITGDSVLPSVSVGQEVLVENGHDLEVTVDDEKVSIIRESDIIAIVTK |
| 6051 | sp|P0A9P8|DEAD\_SHIFL | MAEFETTFADLGLKAPILEALNDLGYEKPSPIQAECIPHLLNGRDVLGMAQTGSGKTAAFSLPLLQNLDPELKAPQILVLAPTRELAVQVAEAMTDFSKHMRGVNVVALYGGQRYDVQLRALRQGPQIVVGTPGRLLDHLKRGTLDLSKLSGLVLDEADEMLRMGFIEDVETIMAQIPEGHQTALFSATMPEAIRRITRRFMKEPQEVRIQSSVTTRPDISQSYWTVWGMRKNEALVRFLEAEDFDAAIIFVRTKNATLEVAEALERNGYNSAALNGDMNQALREQTLERLKDGRLDILIATDVAARGLDVERISLVVNYDIPMDSESYVHRIGRTGRAGRAGRALLFVENRERRLLRNIERTMKLTIPEVELPNAELLGKRRLEKFAAKVQQQLESSDLDQYRALLSKIQPTAEGEELDLETLAAALLKMAQGERTLIVPPDAPMRPKREFRDRDDRGPRDRNDRGPRGDREDRPRRERRDVGDMQLYRIEVGRDDGVEVRHIVGAIANEGDISSRYIGNIKLFASHSTIELPKGMPGEVLQHFTRTRILNKPMNMQLLGDAQPHTGGERRGGGRGFGGERREGGRNFSGERREGGRGDGRRFSGERREGRAPRRDDSTGRRRFGGDA |
| 6052 | sp|B5R5I2|DNAK\_SALEP | MGKIIGIDLGTTNSCVAIMDGTQARVLENAEGDRTTPSIIAYTQDGETLVGQPAKRQAVTNPQNTLFAIKRLIGRRFQDEEVQRDVSIMPYKIIGADNGDAWLDVKGQKMAPPQISAEVLKKMKKTAEDYLGEPVTEAVITVPAYFNDAQRQATKDAGRIAGLEVKRIINEPTAAALAYGLDKEVGNRTIAVYDLGGGTFDISIIEIDEVDGEKTFEVLATNGDTHLGGEDFDTRLINYLVDEFKKDQGIDLRNDPLAMQRLKEAAEKAKIELSSAQQTDVNLPYITADATGPKHMNIKVTRAKLESLVEDLVNRSIEPLKVALQDAGLSVSDINDVILVGGQTRMPMVQKKVAEFFGKEPRKDVNPDEAVAIGAAVQGGVLTGDVKDVLLLDVTPLSLGIETMGGVMTPLITKNTTIPTKHSQVFSTAEDNQSAVTIHVLQGERKRASDNKSLGQFNLDGINPAPRGMPQIEVTFDIDADGILHVSAKDKNSGKEQKITIKASSGLNEEEIQKMVRDAEANAESDRKFEELVQTRNQGDHLLHSTRKQVEEAGDKLPVDDKTAIESALNALETALKGEDKAAIEAKMQELAQVSQKLMEIAQQQHAQQQAGSADASANNAKDDDVVDAEFEEVKDKK |
| 6053 | sp|P27542|DNAK\_CHLPN | MSEHKKSSKIIGIDLGTTNSCVSVMEGGQAKVITSSEGTRTTPSIVAFKGNEKLVGIPAKRQAVTNPEKTLGSTKRFIGRKYSEVASEIQTVPYTVTSGSKGDAVFEVDGKQYTPEEIGAQILMKMKETAEAYLGETVTEAVITVPAYFNDSQRASTKDAGRIAGLDVKRIIPEPTAAALAYGIDKVGDKKIAVFDLGGGTFDISILEIGDGVFEVLSTNGDTLLGGDDFDEVIIKWMIEEFKKQEGIDLSKDNMALQRLKDAAEKAKIELSGVSSTEINQPFITMDAQGPKHLALTLTRAQFEKLAASLIERTKSPCIKALSDAKLSAKDIDDVLLVGGMSRMPAVQETVKELFGKEPNKGVNPDEVVAIGAAIQGGVLGGEVKDVLLLDVIPLSLGIETLGGVMTTLVERNTTIPTQKKQIFSTAADNQPAVTIVVLQGERPMAKDNKEIGRFDLTDIPPAPRGHPQIEVSFDIDANGIFHVSAKDVASGKEQKIRIEASSGLQEDEIQRMVRDAEINKEEDKKRREASDAKNEADSMIFRAEKAIKDYKEQIPETLVKEIEERIENVRNALKDDAPIEKIKEVTEDLSKHMQKIGESMQSQSASAAASSAANAKGGPNINTEDLKKHSFSTKPPSNNGSSEDHIEEADVEIIDNDDK |
| 6054 | sp|A0KMI5|DNAJ\_AERHH | MSKRDFYEVLGVSKDADEREIKKAYKRLAMKYHPDRNQGDAGAEEKFKEVKEAYEILTDANLRARYDQYGHAGVDQSQGGGGHGGFGGGADFGDIFGDVFGDIFGGSRGGGRRGPARGSDLRYTMELTLEEAVRGVSKEIKVPTLVHCEVCNGSGAHTGSSAQTCPTCHGSGQVQMRQGFFAVQQACPHCHGRGKIIKDPCRKCHGEGRYQKTKTLSVKIPAGVDTGDRIRLSGEGEAGEAGAPAGDLYVQVHVKEHEIFVRDGNNLYCEVPISFTAAALGGEIEVPTLDGRVKLKVTPETQTGKMFRMRGKGVKSVRSGQVGDLMCKVVVETPVKLTESQKELLRQLDESFSGAAAKTHKPKSEGFFEGVKRFFDDLTS |
| 6055 | sp|A6LDG8|DNAK\_PARD8 | MGKIIGIDLGTTNSCVAVLEGNEPVVIANSEGKRTTPSIVAFVEGGERKVGDPAKRQAITNPEKTIFSIKRFMGETYDQVQKEINRVPYKVVRGDNNTPRVDIEGRLYTPQEISAMILQKMKKTAEDYLGQEVTEAVITVPAYFSDAQRQATKEAGEIAGLTVRRIVNEPTAASLAYGLDKTNKDMKIAVFDLGGGTFDISILELGDGVFEVKSTNGDTHLGGDDFDHVIIDWLAEEFEREEGVDLRKDPMALQRLKEAAEKAKIELSSTTSTEINLPYIMPVNGIPKHLVKTLTRAKFEQLADGLIQACIEPCRQSLKDAGLSTSDIDEVILVGGSTRIPAVQAIVEKFFGKAPSKGVNPDEVVAVGAAIQGGVLTGEVKDVLLLDVTPLSLGIETMGGVMTKLIESNTTIPTKKSETFTTAVDNQPSVEIHILQGERSLAKDNKSIGRFHLDGIPAAQRGVPQIEVTFDIDANGILNVSAKDKGTGKVQSIRIEASSGLSDDEVKRMKEEAAANAEADKKEKERIDKLNQADSMIFQTEKQLKDLGDKLPADKKAPIEGALNKLKEAHKAQDIAGIDAAMAELNSVFQAASQEMYNAQGGGAQGGPQADPNFGGQQAGGNAGSSNNSKDGNVTDVDFEEVK |
| 6056 | sp|A1STE5|DNAJ\_PSYIN | MAKRDCYEVLGISRDATEKEVKKAYKRLAMKYHPDRTSGNDELEVKFKEVKEAYEILNDSQKKAAYDQYGHDGVNQQGRGGFDNSDFGDQFGDIFGDIFGGGRRGGGGGGQRPQQGSDLRYNMELTLEEAVRGISKEIQIPTQVHCEQCNGSGAKKGTEAKTCGTCYGQGQVQMRQGFFAVNQACPTCRGQGKIISDPCHKCHGHGRYERSKNMSVKIPAGVDTGDRIRLSGEGEAGEHGGPAGDLYVQMNVLPHHVFERDGNNLHCEVPISFTEAALGSEIEVPTLDGRVKLKIPAETQTGRVFRMRNKGVKSVRSHATGDLMCKVMVETPVKLSSKQRDLLKEFETLCSSSSTKHKPKSEGFLTSIKTFFDDLSS |
| 6057 | sp|Q253K1|DNAK\_CHLFF | MSEHKKSSKIIGIDLGTTNSCVSVMEGGQAKVITSSEGTRTTPSIVAFKGSETLVGIPAKRQAVTNPEKTLASTKRFIGRKYSEVESEIKTVPYKVTSGSNGDAVFQVEGKQYTPEEIGAHILMKMKETAEAYLGETITEAVITVPAYFNDSQRASTKDAGRIAGLDVKRIIPEPTAAALAYGIDKAGDKKIAVFDLGGGTFDISILEIGDGVFEVLSTNGDTHLGGDDFDEVIIKWMIEEFQKQEGIDLGKDNMALQRLKDAAEKAKIELSGMSSTEINQPFITMDANGPKHLTLTLTRAHFEKLASNLIERTKAPCIKALADAKLSASDIDDVLLVGGMSRMPAVQEIVKDIFGKEPNKGVNPDEVVAIGAAIQGGVLGGEVKDVLLLDVIPLSLGIETLGGVMTPLVERNTTIPTQKKQIFSTAADNQPAVTIVVLQGERPMAKDNKEIGRFDLTDIPPAPRGHPQIEVTFDIDANGILHVSAKDAASGREQKIRIEASSGLKEDEIQRMIRDAEQNKEEDKKRREASDVRNEADSMIFRAEKAINDYKANIPESLVKEIEERVEKVRSALKEDASTEKIKEASEELSRHMQKIGEAMQSQSASAAPSSAANAQGGPNINTEDLKKHSFSTKPPAGNSTSASSNNENIEEADVEIVDKPND |
| 6058 | sp|Q2S030|DNAJ\_SALRD | MPRDYYDILGVDEDASDKEIKKAYRKKAMEYHPDRNPDDPEAEQKFKEASEAYEVLSDPEKRQRYDQFGHDGVDSGAGGGRRGRGRGFHDIEDIFDAFSDIFGGAPGGGRGRGRSERGRGRPGSDLRVSLSLTLEEIAEGTEKNLRLQKYLECESCDGTGAEGGMGGQNFSMCPKCDGTGEIRQVSRSVFGQVVNVQPCPRCEGEGRIIDNLCDDCGGEGRVQGEESISINVPPGVMEGNYLTLGDAGNAGLRGGPSGDLRIEIEEEPHEHFERDGLDIYYDLHLSFPEAALGTEVDVPTLEGEARLEVDPGVQAGKILRMRDRGLPDLEGSGQGDQMIRVHVWTPQELTAEEEELLDQLRAHDNFQPRPPEEDTQKSFFRRVSDVFS |
| 6059 | sp|Q7N8Y3|DNAJ\_PHOLL | MAKRDYYEVLGVSKTASEKEIKKAYKRLAMKYHPDRNQGDKEAESQFKEVKEAYEILTDDQKRAAYDQYGHAAFEQGGMGGGGADFSDIFGDVFGDIFGGGRRQQRPSRGADLRYSMELTLEEAVRGVTKEIRIPTLETCDICHGSGAKAGTSPVTCSTCQGAGQVHMRQGFFTVQQPCPHCHGRGQIIKDSCHKCHGHGRVERYKTLSVKIPAGVDTGDRVRLSGEGEAGAKGAPAGDLYVQVQVKSHHIFERQESNLYCEVPVNFAMAALGGEIEVPTLDGRVKLKIPAETQTGKMFRMKGKGVKSVRGGVQGDLLCRVVVETPVKLNERQKELLRELGESFGGAGEETNSPRSKSFFDGVKKFFDDLTK |
| 6060 | sp|Q17VY4|DNAK\_HELAH | MGKVIGIDLGTTNSAMAVYEGNEAKIIANKEGKNTTPSIVAFTDKGEILVGESAKRQAVTNPEKTIYSIKRIMGLMFNEEKAKEAEKRLPYKIVDRNGACAIEISGKVYTPQEISAKILMKLKEDAESYLGESVTEAVITVPAYFNDSQRKATKEAGTIAGLNVLRIINEPTSAALAYGLDKKESEKIMVYDLGGGTFDVTVLETGDNVVEVLATGGDAFLGGDDFDNRVIDFLATEFKNETGIEIKNDVMALQRLKEAAENAKKELSSAMETEINLPFITADATGPKHLVKKLTRAKFESLTEDLIEETISKIEGVIKDAGLTKNEISEVVMVGGSTRIPKVQERVKGFINKELNKSVNPDEVVAVGASIQGGVLKGDVKDVLLLDVTPLSLGIETLGGVMTKVIDRGTTIPAKKSQVFSTAEDNQPAVSIMVLQGERDLARDNKSLGKFDLQGIAPAPRGVPQIEVTFDIDANGILTVSAQDKNTGKSQEIKISGSSGLSDSEIEKMVKDAELHKEEDARKKEVIEARNHADSLAHQTQKSLDEHKANLNENDANEIQNAINALKDCIKNDNATKAELEDKTKALVQAAQKLGEAMANKNNAEQPKKKDDDVIDAEVE |
| 6061 | sp|A7GT07|DNAJ\_BACCN | MSKRDYYEVLGVSKSASKDEIKKAYRRLAKKYHPDVSKEENAVEKFKEVQEAYEVLSDEQKRAQYDQFGHAGSSQGFGGGDFGGGFGFEDIFSSFFGGGSRRRDPNAPRQGADLQYQVTLEFEEAIFGKELNVEIPVEDPCDTCHGSGAKPGTTKETCKYCSGTGQISVEQNTPFGRIVNRQTCRHCSGTGQMIKEKCTTCHGTGKVRKRKKINVKIPAGIDNGQQIRVAGKGEAGVNGGPAGDLYVVVHVREHEFFERDGDHIICEMPLTFAQAALGAEVEVPTVHGKVKLKIPAGTQTGTEFRLKGKGAPNVRGYGQGDQYVVVRVVVPTNLTAHQKELLREFAGQEDKDDSLFGKLKRAFKGE |
| 6062 | sp|A6T226|DNAK\_JANMA | MGKIIGIDLGTTNSCVAIMEGGKPKVIENSEGARTTPSVIAYQEDGEILVGAPAKRQAVTNPKNTLYAVKRLIGRKFDEKEVQKDIGMMPYQIVKADNGDAWISVRDKKLAAQQISAEILRKMKKTAEDYLGEEVTEAVITVPAYFNDAQRQATKDAGRIAGLDVKRIINEPTAAALAFGLDKGGKGDRKIAVYDLGGGTFDISIIEIADVDGEMQFEVLSTNGDTFLGGEDFDQRIIDYIIDEFKKINGLDLSKDAIALQRIKASAERAKIELSSSQQTEINEPYIAMANGAPVHLNLKITRAKLESLVEELISKTIEPCRTAIKDAGVKVSDIDDIILVGGMTRMPKVQETVKDFFGKDPRKDVNPDEAVAVGAAIQGSVLSGDRKDLLLLDVTPLSLGIETLGGVMTKMIQKNTTIPTKFSQVFSTADDNQPAVTIKVFQGEREMAVGNKALGEFNLEGIPPSARGTPQIEVTFDIDANGILHVGAKDKATGKENKITIKANSGLTEEEIQKMVQDAEANAEEDKRLKELAEAHNQGDALVHSTRKALTEYGDKLEAGEKEKIEAAIAELEEALKGSDKAAIDEKSAAVTTAAQKLGEKMYADMQAQQAAGAAGGDAGAGDAGHSHADSKPQQDDVVDADFKEVKDK |
| 6063 | sp|B0TAD7|DNAK\_HELMI | MGKIIGIDLGTTNSCVAVLEGGESVVIPNKEGARTTPSVVGFSKTGERLVGQVAKRQAITNPDRTVISIKRHMGTDYKVKIDDKNYTPQEISAMILQKLKADAEAYLGEPVTQAVITVPAYFTDSQRQATKDAGAIAGLEVMRIINEPTAAALAYGIDKGEDQTILVYDLGGGTFDVSILELGDGLFEVKATSGNNRLGGDDFDEKIINWMIAEFKKETGVDLRGDKMAMQRLKEAAEKAKIELSGVMSTNINLPFITATADGPQHLDMTLTRAKFDELTADLVEMTMGPTRQALQDAKLEPKDIDKVILVGGSSRIPAVQEAIRKYLGKEPFKGINPDEVVAMGAAIQAGVLGGEVKGIVLADVTPLSLGIETLGGICTVLIPRNTTIPTSKSETFTTAADNQTSVEVHVLQGERKLASQNKTLGRFHLSGIAPAPRGIPQIEVKFDIDANGIVHVSAKDKATGNEQKITITASTGLSKEEIERMIKDAELHAEEDRKRQEEVEIRNQADSMVYQAEKTLKDLGDKAEAADKAKIESAKEELKKALEGTDMEEIKKKTEALTTVVYELSTKLYQQASAPGAGPEGASGGFGGENKKDDNVVDADYTVIDDDKKKT |
| 6064 | sp|Q0BW82|DNAK\_GRABC | MSKVIGIDLGTTNSCVAIMEGKDVRVLENAEGARTTPSMIAFTDSGERLVGQAAKRQAVTNPSNTLYAVKRLIGRRYDDPTVAKDKDLVPYAIVRGDNGDAWVEARGEKYAPSQISAFVLSKMKETAEAYLGEPVTQAVITVPAYFNDSQRQATKDAGRIAGLEVLRIINEPTAAALAYGMDKKNTGTIAVYDLGGGTFDVSILEIGDGVFEVKSTNGDTFLGGEDFDARVIDYLASEFQREQGIDLRKDKLALQRLKEAAEKAKIELSSSKETEINLPFITADASGPKHLVLKLSRAKLESLVDDLIQRTLEPCRKALKDAGVSAGEISDVILVGGMTRMPKVIEAVKQFFGKEPARNVNPDEVVAIGAAVQGAVLKGDVKDVLLLDVTPLSLGIETLGGVFTRLIDRNTTIPTKKSQVFSTAEDNQPAVTIKVYQGEREMAADNKSLGQFDLTGLPPAPRGVPQIEVTFDIDANGIVNVSAKDKATGKEQQIRIQASGGLSDADIQRMVQEAEANAEADKQRRALVEARNQAESLVHQVEKNLKEQGDKIAEADKGEAESAISATRTALEGDDLAALTQATERLSQVAMKIGEAMYKAQSEAPTGEAEAGPNGEKVVDADFEEVDPKKHS |
| 6065 | sp|B1Y787|DNAJ\_LEPCP | MGKRDYYEVLGVGKTASEDEIKKAYRKLAMKHHPDRNQGDGAKASEEKFKEAKEAYEMLSDAQKRAAYDQFGHAGVDPNAGGAGFRPGAGGEGYGGFAEAFGDIFGDIFGQQGGGGRRGAGGQQVYRGADLSYAMEITLEEAAHGKESQIRIPTWEECDTCHGSGAKPGTSAKPCTTCHGAGTVHLRQGFFSIQQTCPHCHGSGKIIPEPCTSCNGAGKVKKQKTLEVKIPAGINEGQRIALRGHGEPGTQGGPAGDLYVEIRIKQHEIFERDSDDLHCTVPVPLTTAALGGAIEVPTLSGSAEIELPEGTQHGKTFRLRGKGIKGIRSNYPGDLYCHVSVETPVKLTEHQRKLLKELDESFRKGGDKHSPTSKSWTDRVKDLFK |
| 6066 | sp|Q12743|DFM1\_YEAST | MAGPRNVRTLHGNGGRNNDVMGPKEFWLNIPPITRTLFTLAIVMTIVGRLNLINPWYFIYVWNLTFKKVQIWRLLTSCVMLSSRAMPALMELYSIYDRSSQLERGHFGPGLSNRRGPMVTVDYAYYLCFCILAITTATTIIYGSYYPVVLTSGFISCITYTWSIDNANVQIMFYGLIPVWGKYFPLIQLFISFVFNEGDFVISLIGFTTGYLYTCLDTHTLGPIWGMISRKADPTYGISPNGKFSTPWWFTSLYARITGAHNETATFNNNFANVPSSQRETRTFSGRGQRLGTAPATLSQTSGTDSGRASGSQLRSGPSNLNQFQGRGQRVGQTNSPSDSQ |
| 6067 | sp|P71500|DNAJ\_MYCCT | MKKKDYYEVLGVSKTASEQEIRQAYRKLAKQYHPDLNKSPDAHDKMVEINEAADVLLDKDKRKQYDQFGHRAFDNSSGFSSNFTDFEDLFSNMGSSGFSSFTNIFSDFFGSNKSDYQRSTKGQSVSIDIYLTFKELLFGVDKIIELDLLTNCSACFGSGAESNSDINICNNCHGTGEVLVQKNMGFFQFQQSAKCNVCNGAGKIIKNKCKNCKGKGKYLERKKIEVNIPKGIRPNQQIKLSQKGHASTNNGVNGDLIIDIYLKESKVFEIINNNDILMTYNISYLDSILGNEIIIKTLDGDIKYKLPKSINSNEAIIINNKGLYKSINKDKRGDLIIKVNIVVPKNLTKKEKELIEQIYEQTSFNPENNINQ |
| 6068 | sp|B1LZ52|DNAJ\_METRJ | MSKRDYYEILGVTKTATEGEMKVAFRKLAMTYHPDRNPGDKDAEIKFKEINEAYQCLSDGQKRAAYDRFGHAAFSQGGGGPGFGNEFGDFMSDIFDNFFGDGRGGGGARGRGGTPGRERGADLRYNLEITLEEAFTGKAETIKIPTSITCEVCDGSGAKPGSKPRTCPTCAGYGRVRAAQGFFAIERTCPNCHGRGEIVDDPCTACQGAGRVNRERTLSINVPAGVDDGLRIRLAGEGESGLRGGPAGDLYVFLSIKQHEFFQRDGADLFCRVPISMVTAALSGEITVPVIDGSQTQVRIPAGTQTAKQFRIKGKGMPVLRSREVGDLYIQVFVETPQNLTKRQRELLQEFDLSASPENHPESAGFFSKVRDFFGGAVRP |
| 6069 | sp|B4T6D7|DNAJ\_SALNS | MAKRDYYEILGVSKTAEEREIKKAYKRLAMKYHPDRNQGDKEAEAKFKEIKEAYEVLTDAQKRAAYDQYGHAAFEQGGMGGGFGGGFNGGADFSDIFGDVFGDIFGGGRGRQRAARGADLRYNMDLTLEEAVRGVTKEIRIPTLEECDVCHGSGAKAGTQPQTCPTCHGSGQVQMRQGFFAVQQTCPHCQGRGTLIKDPCHKCHGHGRVEKSKTLSVKIPAGVDTGDRIRLAGEGEAGEHGAPAGDLYVQVQVKQHPIFEREGNNLYCEVPINFAMAALGGEIEVPTLDGRVMLKVPSETQTGKLFRMRGKGVKSVRGGAQGDLLCRVVVETPVGLSEKQKQLLKDLQESFGGPTGEKNSPRSKSFFDGVKKFFDDLTR |
| 6070 | sp|A7MIK3|DNAJ\_CROS8 | MAKKDYYEILGVPKTADEREIKKAYKRLAMKFHPDRNQGDKEAEAKFKEIKEAYEILTDAQKRAAYDQYGHAAFEQGGMGGGGFGGGFGNGADFSDIFGDVFGDIFGGGRGRRASRGADLRYNMELTLEEAVRGVTKEIRIPTLEECEVCHGSGAKPGSQPQTCPTCHGAGQVQMRQGFFAVQQTCPHCQGRGTLIKDPCNSCHGHGRIEKTKTLSVKIPAGVDTGDRIRLAGEGEAGEQGAPAGDLYVQVQVKQHPIFEREGNNLYCEVPINFAMAALGGEIEVPTLDGRVMLKVPSETQTGKLFRMRGKGVKSVRGGAQGDLLCRVVVETPVGLNDRQKALLQELQESFGGPTGEKNSPRSKSFFDGVKKFFDDLTR |
| 6071 | sp|B7M0B1|DNAJ\_ECO8A | MAKQDYYEILGVSKTAEEREIKKAYKRLAMKYHPDRNQGDKEAEAKFKEIKEAYEVLTDSQKRAAYDQYGHAAFEQGGMGGGGFGGGADFSDIFGDVFGDIFGGGRGRQRAARGADLRYNMELTLEEAVRGVTKEIRIPTLEECDVCHGSGAKPGTQPQTCPTCHGSGQVQMRQGFFAVQQTCPHCQGRGTLIKDPCNKCHGHGRVERSKTLSVKIPAGVDTGDRIRLAGEGEAGEHGAPAGDLYVQVQVKQHPIFEREGNNLYCEVPINFAMAALGGEIEVPTLDGRVKLKVPGETQTGKLFRMRGKGVKSVRGGAQGDLLCRVVVETPVGLNEKQKQLLQELQESFGGPTGEHNSPRSKSFFDGVKKFFDDLTR |
| 6072 | sp|Q5WV15|DNAK\_LEGPL | MAKIIGIDLGTTNSCVAVMEGDKPKVIENSEGHRTTPSIVAFTDDNEILVGQSAKRQSVTNPEKTLFAIKRLIGRRFDDPIVQKDIKMVPYKIMKADNGDAWVRVKDQDKAPPQISAEVLRKMKKTAEDYLGEEVKEAVITVPAYFNDSQRQATKDAGRIAGLEVKRIINEPTAAALAYGMDKKRGDSVIAVYDLGGGTFDISIIEIAEVDGEHQFEVLATNGDTFLGGEDFDLALIEYLASEFKKDTGIDLHNDPLALQRLKEAAEKAKIELSSAQQTDVNLPYITADASGPKHLNIKLTRAKLESLVEKLVERTIEPCKTALKDAGLTVSQINEVILVGGQTRMPLVQKTVEEFFGKEPRKDVNPDEAVAVGAAIQAAVLSGEVKDILLLDVTPLSLGIETMGGVMTKLIEKNTTIPTKATQVFSTADDNQTAVTVHVLQGEREQASANKSLGRFDLRDIPPAPRGVPQIEVTFDIDANGILNVSAKDKATGKAQSIVIKASSGLSEEEVAAMVKDAQSHAEEDKKFKEMAELRNQADSLIHSCEKSMKDLADELSEDEKKGIETAISELKEAVQGTDKARIEDKLKVLTDASAKMAERIYAKKSSEGQTAQGQTQSQESTKPAEEGVVDAEFEEVKEEDKK |
| 6073 | sp|B7L4D9|DNAJ\_ECO55 | MAKQDYYEILGVSKTAEEREIKKAYKRLAMKYHPDRNQGDKEAEAKFKEIKEAYEVLTDSQKRAAYDQYGHAAFEQGGMGGGGFGGGADFSDIFGDVFGDIFGGGRGRQRAARGADLRYNMELTLEEAVRGVTKEIRIPTLEECDVCHGSGAKPGTQPQTCPTCHGSGQVQMRQGFFAVQQTCPHCQGRGTLIKDPCNKCHGHGRVERSKTLSVKIPAGVDTGDRIRLAGEGEAGEHGAPAGDLYVQVQVKQHPIFEREGNNLYCEVPINFAMAALGGEIEVPTLDGRVKLKVPGETQTGKLFRMRGKGVKSVRGGAQGDLLCRVVVETPVGLNEKQKQLLQELQESFGGPTGEHNSPRSKSFFDGVKKFFDDLTR |
| 6074 | sp|Q9LZK5|DNJ19\_ARATH | MAIRWSELCIVLFALSYAICVLAGKSYYDVLQVPKGASDEQIKRAYRKLALKYHPDKNQGNEEATRKFAEINNAYEVLSDEEKREIYNKYGEEGLKQFSANGGRGGGGGGMNMQDIFSSFFGGGSMEEEEKVVKGDDVIVELEATLEDLYMGGSMKVWREKNVIKPAPGKRKCNCRNEVYHRQIGPGMFQQMTEQVCDKCPNVKYEREGYFVTVDIEKGMKDGEEVSFYEDGEPILDGDPGDLKFRIRTAPHARFRRDGNDLHMNVNITLVEALVGFEKSFKHLDDHEVDISSKGITKPKEVKKFKGEGMPLHYSTKKGNLFVTFEVLFPSSLTDDQKKKIKEVFA |
| 6075 | sp|Q5HFI0|DNAK\_STAAC | MSKIIGIDLGTTNSCVTVLEGDEPKVIQNPEGSRTTPSVVAFKNGETQVGEVAKRQAITNPNTVQSIKRHMGTDYKVDIEGKSYTPQEISAMILQNLKNTAESYLGEKVDKAVITVPAYFNDAERQATKDAGKIAGLEVERIINEPTAAALAYGLDKTDKDEKVLVFDLGGGTFDVSILELGDGVFEVLSTAGDNKLGGDDFDQVIIDYLVAEFKKENGVDLSQDKMALQRLKDAAEKAKKDLSGVSQTQISLPFISAGENGPLHLEVNLTRSKFEELSDSLIRRTMEPTRQAMKDAGLTNSDIDEVILVGGSTRIPAVQEAVKKEIGKEPNKGVNPDEVVAMGAAIQGGVITGDVKDVVLLDVTPLSLGIEILGGRMNTLIERNTTIPTSKSQIYSTAVDNQPSVDVHVLQGERPMAADNKTLGRFQLTDIPPAERGKPQIEVTFDIDKNGIVNVTAKDLGTNKEQRITIQSSSSLSDEEIDRMVKDAEVNAEADKKRREEVDLRNEADSLVFQVEKTLTDLGENIGEEDKKSAEEKKDALKTALEGQDIEDIKSKKEELEKVIQELSAKVYEQAAQQQQQAQGANAGQNNDSTVEDAEFKEVKDDDKK |
| 6076 | sp|Q9WYK6|DNAK\_THEMA | MAEKKEFVVGIDLGTTNSVIAWMKPDGTVEVIPNAEGSRVTPSVVAFTKSGEILVGEPAKRQMILNPERTIKSIKRKMGTDYKVRIDDKEYTPQEISAFILKKLKNDAEAYLGGEIKKAVITCPAYFNDAQRQATKEAGIIAGLEVLRIINEPTAAALAYGLDKAGKEEKVLVYDLGGGTFDVSILEIGEGVIEVIATAGNNHLGGDDFDQRLIDWMAEEFKKQHGIDLREDRQALQRLRDAAEKAKIELSTKMETDVSLPFIAVSPSGQPLHLEMRITRSLFESLTRDLVEMTRGPIEQALNDAKLSPQDIDEIILVGGMTRVPMVQRFIKEFFGKEPNKSVNPDEAVAIGAAIQAAILAGTEGAKGRDIVLVDVTPLTLGIEVKGGLFEPIIPRNTKIPVRKSKIFTTVEDGQTEVEIRVYQGERPIARENIFLGSFKLVGIPPAPRGVPQIEVTFDIDSDGIVHVSAKDLGSGKEQSMVVTGRHKLSEDEIKRMIEDAKRYEEQDKRLKEEIELKNRADDLAYSVEKTLKEHGDKIPADLKSRLEDMIRELRDAINRNDIPKVKMLFDDLQKESMKIGEYLYKSATGGETSNQ |
| 6077 | sp|Q93R27|DNAK\_TETHA | MSKIIGIDLGTTNSAVSVLEGGESQIITNPEGNRTTPSAVAFKNGEIQVGEVAKRQAVTNSDTVTSIKRHIGEDGYKVEANNKSYTPQEISAMILQHIKSFSEDYLGEEVEKAVITVPAYFNDSQRQATKDAGKIAGLEVERIVNEPTAAALAYGLDKTEQDEKILVFDLGGGTFDVSILELGDGVFDVLSTAGDNKLGGDDFDEKIIDYMVSEFKKENGIDLSKDKMALQRLKDAAEKAKKDLSGVSSTQISLPFITAGEDGPLHLEMNMTRAKFDELTSSLVDRTKEPVRQALKDADLSQSDIDQVILVGGSTRIPSVVESVRKETGKEPNKSVNPDEVVAMGAAIQAGVISGDVKDVVLLDVTPLSLGIETMGGVFTKLIDRNTTIPTSKSQVFSTAADNQPAVDIHVLQGERPMAADNKTLGRFQLTDIPAAPRGVPQIEVSFDIDKNGIVNVSAKDLGTQKRTKITIQSSSGLSDDEIDKMVKDAEANAEADEKRKEEVDLRNEVDTLLFTVDKTLSDLDGKVDEEEVKKAENARDELKAAVEADDIEDMKTKRDALNEIVQNLSVKMYEQASQEQQGDQAAQGSDDASNASGDDDVVDADFEEVDDDDNDNQ |
| 6078 | sp|B1IA52|DNAK\_STRPI | MSKIIGIDLGTTNSAVAVLEGTESKIIANPEGNRTTPSVVSFKNGEIIVGDAAKRQAVTNPDTVISIKSKMGTSEKVSANGKEYTPQEISAMILQYLKGYAEDYLGEKVTKAVITVPAYFNDAQRQATKDAGKIAGLEVERIVNEPTAAALAYGLDKTDKEEKILVFDLGGGTFDVSILELGDGVFDVLSTAGDNKLGGDDFDQKIIDHLVAEFKKENGIDLSTDKMAMQRLKDAAEKAKKDLSGVTSTQISLPFITAGEAGPLHLEMTLTRAKFDDLTRDLVERTKVPVRQALSDAGLSLSEIDEVILVGGSTRIPAVVEAVKAETGKEPNKSVNPDEVVAMGAAIQGGVITGDVKDVVLLDVTPLSLGIETMGGVFTKLIDRNTTIPTSKSQVFSTAADNQPAVDIHVLQGERPMAADNKTLGRFQLTDIPAAPRGIPQIEVTFDIDKNGIVSVKAKDLGTQKEQTIVIQSNSGLTDEEIDRMMKDAEANAEADKKRKEEVDLRNEVDQAIFATEKTIKETEGKGFDAERDAAQAALDDLKKAQEDNNLDDMKAKLEALNEKAQGLAVKLYEQAAAAQQAQEGAEGAQATGNAGDDVVDGEFTEK |
| 6079 | sp|Q0J3Y6|DRE1I\_ORYSJ | MCTSKLEEITGEWPPPALQAASTTSSSEPCRRLSPPSSKRPAGRTKFHETRHPVFRGVRRRGRAGRWVCEVRVPGRRGCRLWLGTFDAADAAARAHDAAMLALRGRAAACLNFADSAWLLAVPPPATLRCAADVQRAVARALEDFEQRESSSSVFPLAIDVVAEDAMSATSEPSAASDDDAVTSSSSTTDADEEASPFELDVVSDMGWSLYYASLAEGLLMEPPASGASSDDDDDAIVDSSDIADVSLWSY |
| 6080 | sp|P0A8P3|FETP\_ECOLI | MSRTIFCTFLQREAEGQDFQLYPGELGKRIYNEISKEAWAQWQHKQTMLINEKKLNMMNAEHRKLLEQEMVNFLFEGKEVHIEGYTPEDKK |
| 6081 | sp|Q9LXX4|BZP49\_ARATH | MAEPVLEDTYLTFSSDFDYIAIAPSPFDNFCNSNSDQVRNSISDLRFLIDDDDSFDDLYFPSENESFCIPPDATKREMSGDFTPASGISGDCVNEDTEKNTNGVLISTSSCYNRESPTDSDFSGTSQSLSFSGQDSAKRKTEIEEDSSDESRRLGKDGFASVIKVGGEEDDEKKKNVRLVRNRESAHLSRQRKKHYVEELEDKVKNMHSTISELSSKMSYFVAENVTLRQQMGTRFSSGPPMVPIVYPWMQYPAYMVKPQGSQVALLPIPRLKPKHSVAKVKKFKKVASFSVFGFLFCMFLFGALVNISYGEYKSNYVTDGVYDQSRGRVLVVDSSRVHCGGDSDQGVGRNVSETENLGPPRNSSEPLVASLFVPRNEKLVKIDGNLIIHSVLASEKARDSETKNEEGKSVLATTTKTLSPALPLPDSTSPRTRDVSKHLYSETGKGLSSSGSDDASNDQLKSTIANGKMQQWFREGVAGPMFSSGMCTEVFQFDVSSNSGAIIPASPHTQQCKNTSDTQKGKKNRRILSGGLPVSDFNLTKEDHNSSSKDKFRETKPGPSMVVSVLVDPREGGNGDIDGMMGGTKPQSRVFIVVLVDGVKYITYSCVLPRPDVPHLMTS |
| 6082 | sp|A0A0N7KIY3|BH156\_ORYSJ | MEHHHLLLQLSPPPPPPPLPAAHLMMSPSFFDAGVFADVGGDWMEDLMHLGELFGVGVGGDDDDNGGVDGGVGGGDDRMQEWQNNCEGAGSPDHQPSCGDGDGDGDGDVSPRDGELGDGDGDNSATRKRRDRSKTIVSERKRRVRMKEKLYELRALVPNITKMDKASIIADAVVYVKDLQAHARKLKEEVAALEEARPIRPPPPSAAAQRPQRQPRRVAAAAAQLARAADAAAVTTAAAAPHGARVAHVGAAQVGEGRFFVTVECEPAAAAARGGGGGVAAPVCAAVESLSCFTVESSTVGCSPDRVVATLTLKVSEAEEDVSAISECTVKLWVMAALLKEGFRPQPTVQIS |
| 6083 | sp|Q9Z6E4|CLPB\_STRAL | MDAELTNRSRDALNAATTRAVSAGNPDLTPAHLLLALLEGQDNENLVDLLAAVERRPGGGSARAPSASLGSLPGVTGSTVAPPQPNRDLLAVIADAGRRAKDLGDEFLSTEHLLIGIRPTARPPRCSPGRAPTPEKLLEAFQNTRGGRRVTTPRPEGQYKALEKFGTDFTAAARERKLDPVIGRDQEIRRVVQVLSRRTKNNPVLIGEPGVGKTAVVEGLAQRIVKGDVPESLKDKRLVSLDLGAMVAGAKYRGEFEERLKTVLSEIKESDGQIVTFIDELHTVVGAGAADSAMDAGNMLKPMLARGELRMVGATTLDEYRERIEKDPALERRFQQVLVAEPSVEDSIAILRGLKGRYEAHHKVQIADSALVAAATLSDRYITSRFLPDKAIDLVDEAASRLRMEIDSSPLEIDELQRSVDRLKMEELALDRETDPASRQRLEKLRRDLADRERSCAAHRPWEKEKQSLNRVGELKERLDELRGQAERAQQHGDFDTASKLLYGEIPTLERDLRWRPAEEEAAKDTMVKEEVGPDDIADVVGSWTGIPAGRLLEGETQKLLRMEAELGRRLIGQSEAVQAVSDAVRTRAGIADPDRPTGSFLFLGPTGVGKTELAKALADFLFDDERAMIRIDMSEYGEKHSVARLVGAPPGYVGYEEGGQLTEAVRRRPYSVVLLDEVEKAHPGVFDILLQVLDDGRLTDGQGRTVDFRNTILVLTSNLGSQYLVGSAPEEEKRRQVMEVVRSSFKPEFLNRLDDLVIFSALDEDELARIAGLQIAGLARRLADRRLSLDVTPEALAWLAKEGFDPAYGARPLRRLIQTAIGDRLAKEILAGEVRDGDTVRVDRVEDGLLVGRAEG |
| 6084 | sp|Q7M9X4|CLPB\_WOLSU | MNAFEKMTHQLRETLEQALSLALHAKNPEVDLPHMAWALLINSTSILNQALNKMGVDKSALELEAKSLVDRLPQSSSLTKENIKISKRLADSLTQAEALGVKGGDKFIAVDTWLLANLKEEPLKSLFSKYLDVNELKKNLESIRGGAKIESATDDENLESLAKYGIDLTQKALENKLDPVIGRDEEISRMMQILIRKTKNNPILLGEPGVGKTAVVEGLAQRIIAKEVPLSLQNKRVVALDMSALIAGAKYRGEFEDRLKKVVEEVKKAGNVILFIDEIHTIVGAGASEGSMDAANILKPALARGELHTIGATTLKEYRKYFEKDAALQRRFQPIFLNEPTINEALQILRGIKERLEAHHNVTIYDSALVAAAKLSSRYITDRYLPDKAIDLIDEAAAELKMQIESEPTELSLIKRQIQRLEVEKEALLMEKESTHSEARIKEIQAELENAKERQRTLLAQFENEKAVFNEIASIKAKADELRRESELAKRSGDYNKAAEIDYGKIPELENREKELNTQWNRMQESGTLLKNAVSEESIAGIVSRWTQIPVKKMLQGEKEKVLGVEEELRKDVVGQDEALHAIARAIKRNKAGLSENNRPIGSFLFLGPTGVGKTQSAKTLAKFLFDSDKNLVRIDMSEYMEKHAASRLVGAPPGYVGYEEGGQLTEAIRRKPYSVVLFDEIEKAHPDVFNILLQVLDDGRLTDNKGVTVDFRNTIIILTSNIASDKIMENSDKERRESAVKAELKRYFKPEFLNRLDDIIIFNPLGLAQIVEIVEIMFEGIREKLKERQITLELTQSAKEQIAEVGFDPVYGARPLKRALYEEVEDRLAELILEDKISEGSHVVFDAQGGKIIARI |
| 6085 | sp|O83110|CLPB\_TREPA | MNTDRYTVKASEALNDAISLAEAENHGQVEEEHLLHALLSQKDGIISPLIEKIGAKPDFLYDELLQCLRRKPRVTGPAAQTRCAPTLSKACARAERLALKNQDEYVSCEHLLLAISETDSNTARLLHSQGITSKTISAALKDIRGSKRVTSQDPESTFQCLEKYCRDLTTLAREEKIDPVIGRDEEIRRVMQVLSRRTKNNPVLIGEPGVGKTAIVEGLARRIVSGDVPESLKGKRLLSLDLGALVAGAKFRGEFEERLKAVIEAVQKSDGGVILFIDELHTLVGAGASEGSMDASNLLKPALARGELRSIGATTLNEYRKYIEKDAALERRFQQVYCVQPTVEDTIAILRGLQEKYEVHHGVRIKDEALVAATVLSDRYITNRFLPDKAIDLVDEAASRLKMEIESQPVELDQVERKILQLNIEKASLLKESDPASKERLEKLEKELAGFLERRAAMQVQWQNEKGRIEESRRYKEELERLRIEETMFSREGDLNKAAELRYGKIPELEKKIMLLTAEVEKKSGLEGQLLREEVCEEDIAKIISMWTGIPVSKMMASEQQKYLQLESVLMQRVVGQDEAVRVISDAIRRNKAGLSDTRRPLGSFLCVGPTGVGKTELARTLADFLFNDERALTRIDMSEYMEKHAISRLIGAPPGYVGYDEGGQLTEAVRRRPYSVLLFDEVEKAHQDVFNIFLQILDDGRLTDGQGRVVDFRNTIIIMTSNIGSEHILSARESRTHTSDLPVPETQSTEEQTLPEQIRGLLHTYFRPEFLNRIDEVLIFKRLTRKHIRLITDIQLQMVVERLESRHIKLRVRDAAKAYLAERGYDDTFGARPLKRAIQTELENALAREILSGRFRGGSTIVVDMCKDALCFTEQTS |
| 6086 | sp|Q7NWN7|CLPB\_CHRVO | MRFDKLTTKFQQALGDAQSLAVANDNPYIEPQHLLLAMLDDAEAGVGGLLARAGVNVPALKAGLKQAIDRLPRVQGHGGEITVSRDLANLLNIADKIAMKLGDEFIASELYLSALSQDKGEAGRLLKEHGGNHASIQAAIDAVRGGESVNSADAEGQREALKKYTMDLTERARQGKLDPVIGRDDEIRRAIQVLQRRTKNNPVLIGEPGVGKTAIVEGLAQRIVNGEVPESLKNKRLLVLDLAALIAGAKYRGEFEERLKAVLNDLSKDDGQTLIFIDEIHTLVGAGKADGAMDAGNMLKPALARGELHCIGATTLDEYRKYIEKDAALERRFQKVLVGEPSVEDTIAILRGLQEKYEIHHGVDITDPAIVAAAELSQRYITDRFLPDKAIDLIDEAASRIKMELDSKPEAMDKLDRRLIQLKIEREAVNKESDEASQKRLKLIEDEIAELSREYADLEEIWKAEKAAQQGSQSIKEEIDRLKVDMEELKRKGDWQKLAELQYGKLPQLEARLKEAESAGDKGEAKPNRLLRTQVGAEEIAEVVSRATGIPVSKMLTGEREKLLKMEDVLHQRVVGQDEAVSAVADAIRRSRSGLADPNKPYGSFLFLGPTGVGKTELCKTLASFLFDSKDHLIRIDMSEYMEKHSVARLIGAPPGYVGYEEGGYLTEQVRRKPYSVILLDEVEKAHPDVFNVLLQVLDDGRLTDGQGRTVDFKNTVIVMTSNIGSQQIQAMATDDYQVIKLAVMAEVKTQFRPEFINRIDEVVVFHGLDEKHIQSIARIQLKSLENRLAKLELSLQISDEALALLSEAGFDPVYGARPLKRAIQAELENPLAKAILAGKYPPKATVMVEARNGQLAFA |
| 6087 | sp|Q74FF1|CLPB\_GEOSL | MIRPEKMTIKTQEALAGAQQLAARQGNGSIEPEHLLVSLLEQEGGLIAPIIQKVGGAPAALRSAADVLVKRLPQVSGATAQAYLSPALNRILDAAQREADTMKDEFVSTEHLLLGFFADRQCAAARALLDAGVSRDNVLAALMEIRGGERVTDQNPEDTYQALAKYARDLTDLARQGKLDPVIGRDDEIRRVLQVLSRRTKNNPVLIGEPGVGKTAIVEGLAQRIVSGDVPETLKDKRLVALDMGALIAGAKYRGEFEERLKAVIREVAKSEGKVILFIDELHTLVGAGAAEGAMDASNMLKPALARGELHCIGATTLNEYRKYIEKDAALERRFQQVYTGEPSVEDTIAILRGLKEKYENYHGIRIKDSAIIAAATLSDRYITDRFLPDKAIDLIDEAASRLRIEIDSMPTEIDEVERRIIQLEIEKQALLRESQDPHSLERLKKLADELEELKAKSAELKGHWQREKDIIGRVSSLRQRLEEKREEAKKAEREGNLARTAEIRYGEIPAIEKEIADRSAELEDIRKEGKMLPEEVDGELVAEIVSRWTGIPVSRMMEGEADKLVHMEDRLITRVVGQDEALVLVANAIRRARSGLSDPNRPIGSFLFLGPTGVGKTETAKALAEFLFNDDQAIVRIDMSEYQEKHTVARLIGAPPGYVGYEEGGQLTEAVRRRPYSIVLFDEIEKAHPEVFNVLLQVLDDGRLTDGQGRTVDFRNTVIIMTSNLGSQWIQQYGSSDYARMKAMVTETLKEGFKPEFLNRIDEIVIYHALPLEQIKKIVDIQVECLKQRLADRRIVLELSDKAREYLSREGYDPAYGARPLKRTIQRKIQDPLALALLEGKFQEGDTVRVDLSVSGEELVITKK |
| 6088 | sp|Q8EW28|CLPB\_MYCPE | MEFNFEPSNEKDILKKYSRNLNEEVSANKLNKIIGREQEIRRVIEILSRKEKNNPVLIGEPGVGKTAIVEGFVQKIISKEVPENLVHCVVYEVNLSSLIAGTFLQGEFEKRLNALIKEAKQNNGAVILFIDEIHQLMGMGKAGNNSGMDAANILKPIMARGEIKIIGATTSNEYRQYIEKDGALERRFQKILVEEPTPEEALTIMRGLKEKWEIYHKVRIQDNALVASVKLSERYISDKYLPDKAIDLIDEAAAKIKTEAHTSPSEPINKKIFYLETEKIALSKEEGTNQKERINEIEIELEKLKQERDLVEKEWKEQKEQQVALNKIKKEIEKNNWDVERYQNQGEYTEASKILYSVLPELKKKLEAIEKSISENKKVLIKDYISEIDVAEIISRITKIPLNKIFEKEQDKLLNLFNNLKKRVKGQDEALKLVSDTVLKNRVGINNPNRPIGSFLFVGPTGVGKTEVAKSLAENLFNTEKAIVRINMSEYMEKHSISRLIGAPPGYIGYEQAGELSEQIRRKPYSVVLLDEIEKAHPDILNVLLQVLDEGTLKDNQGRNINFKNTIIIMTSNVGALYLMENKEDMFERELKTSFKPEFLNRIDEIIKFNSITMEFAKEIAQKMLDDLEKRLKDNNYQITFDKSVVEYVAKNGYSKEYGARPINRFIQKTIENFITESILKNELIKDRSTIINFANNKLAILKSN |
| 6089 | sp|Q81GM5|CLPB\_BACCR | MDLNQMTTKTQEAIMSAQSLAVSHHHQEVDTVHLLLALLEEQDGLAVRIFQKMNVDIEALKQGAESLIKKKPSVTGSGAEVGKLYVTSALQQLLVRAGKEAEKLQDDYISVEHVLLAFSEEKGDINQLFTRLHITKDNLLQSLMTVRGNQRVTSQNPEATYEALEKYGRDLVAEVRAGKIDPVIGRDSEIRRVIRILSRKTKNNPVLIGEPGVGKTAIVEGLAQRIVKKDVPEGLKDRTIFALDMSALVAGAKFRGEFEERLQAVLNEIKKSEGRILLFIDELHTIVGAGKTEGAMDAGNMLKPMLARGELHCIGATTLDEYRKYIEKDPALERRFQQVLAEEPTVEDTISILRGLKERFEIYHGVNIHDRAIVAASVLSDRYISDRFLPDKAIDLVDEACATIRTEIDSMPTELDEVTRRIMQLEIEEAALGKETDRGSQERLKTLQRELSDLKEVASGMRAKWEKEKEDIHKVRDLREHLERLRRELEEAEGNYDLNKAAELRHGKIPAIEKELKEAEEMGAHNKQENRLLREEVSEEEIADIVSRWTGIPVAKLVEGEREKLLRLEQILSERVIGQEEAVSLVSDAVLRARAGIKDPNRPIGSFIFLGPTGVGKTELAKTLAQSLFDSEEQMIRIDMSEYMEKHAVSRLIGAPPGYVGYEEGGQLTEAVRRKPYSVVLLDEIEKAHPEVFNILLQMLDDGRITDSQGRTVDFKNTVIIMTSNIGSAHLLDGLEEDGSIKEESRDLVMGQLRGHFRPEFLNRVDEIILFKPLTTNEIKGIVDKIVKELQGRLADRHITVELTDAAKEFVVEAGFDPMYGARPLKRYVQRQVETKLARELIAGTITDNSHVVVDVENNELVVHVK |
| 6090 | sp|Q13E60|DNAK\_RHOPS | MGKVIGIDLGTTNSCVAVMDGKNSKVIENAEGMRTTPSIVAISDDGERLVGQPAKRQAVTNPERTFFAVKRLVGRRYDDPMVEKDKKLVPYKIVKASNGDAWVEADGQTYSPSQVSAFILQKMKETAEAHLGQKVDQAVITVPAYFNDAQRQATKDAGKIAGLEVLRIINEPTAAALAYGLDKTKTGTIAVYDLGGGTFDVSILEIGDGVFEVKSTNGDTFLGGEDFDMRLVNYLADEFQKEQGINLRNDKLALQRLKEAAEKAKIELSSTTQTEINLPFITADQSGPKHLTMKLTRAKFEALVDDLVQKTIEPCRKALKDAGLTAGEIGEVVLVGGMTRMPKVQEVVKQLFGKEPHKGVNPDEVVAIGAAIQAGVLQGDVKDVLLLDVTPLSLGIETLGGVFTRIIERNTTIPTKKSQVFSTAEDNQNAVTIRVFQGEREMAADNKILGQFDLMGIPPSPRGMPQIEVTFDIDANGIVNVSAKDKATSKEQQIRIQASGGLSDADIDKMVKDAEANASEDKRRREAVDAKNHADALVHSTEKALAEHGSKVEDSERRAIEDALSDLRESLKSDDAEAIKTKTNTLAQASMKLGEAMYKQQAESDAAKHAAKDDIVDADFTEVDDDKNNKKSA |
| 6091 | sp|A8FLH2|DNAK\_CAMJ8 | MSKVIGIDLGTTNSCVAVYERGESKVIPNKEGKNTTPSVVAFTDKGEVLVGDSAKRQAVTNPEKTIYSIKRIMGLMINEDAAKEAKNRLPYHITERNGACAIEIAGKIYTPQEISAKVLMKLKEDAEAFLGESVVDAVITVPAYFNDAQRKATKEAGTIAGLNVLRIINEPTSAALAYGLDKKDSEKIVVYDLGGGTFDVTVLETGDNVVEVLATGGNAFLGGDDFDNKLIDFLANEFKDETGIDLKNDVMALQRLKEAAENAKKELSSANETEINLPFITADASGPKHLVKKLTRAKFEGMIDSLVAETITKINEVVSDAGLKKDEIKEIVMVGGSTRVPLVQEEVKKAFNKDLNKSVNPDEVVAIGAAIQGAVIKGDVKDVLLLDVTPLSLGIETLGGVMTKIIEKGTTIPTKKEQVFSTAEDNQSAVTINVLQGEREFSRDNKSLGNFNLEGIPPAPRGMPQIEVTFDIDANGILTVSAKDKATGKAQEIKITGSSGLSEEEINNMVKDAELHKEEDKKRKEAVDARNAADSLAHQVEKSLSELGEKVAAADKENIQKALDDLRETLKNQNASKEEIESKMKALSEVSHKLAENMYKKDEPNTANDKKKKDDDVIDAEVE |
| 6092 | sp|A9LZV9|DNAJ\_NEIM0 | MSNQDFYATLGVARTATDDEIKKAYRKLAMKYHPDRNPDNKEAEEKFKEVQKAYETLSDKEKRAMYDQYGHAAFEGGGQGGFGGFGGFGGAQGFDFGDIFSQMFGGGSGRAQPDYQGEDVQVGIEITLEEAAKGVKKRINIPTYEACDVCNGSGAKPGTSPETCPTCKGSGTVHIQQAIFRMQQTCPTCHGAGKHIKEPCVKCRGAGRNKAVKTVEVNIPAGIDDGQRIRLSGEGGPGMHGAPAGDLYVTVRIRAHKIFQRDGLDLHCELPISFATAALGGELEVPTLDGKVKLTVPKETQTGRRMRVKGKGVKSLRSSATGDLYCHIVVETPVNLTDRQKELLEEFERISTGLENQTPRKKSFLDKLRDLFD |
| 6093 | sp|A8H760|DNAK\_SHEPA | MGRIIGIDLGTTNSCVAVLDGDKARVLENAEGDRTTPSIIAYTADETLVGQSAKRQAVTNPTNTVFAIKRLIGRRFKDDEVQRDVDIMPFKIISADNGDAWVEAQGRKMAPPQISAEILKKMKKTAEDFLGEEVTEAVITVPAYFNDSQRQATKDAGRIAGLEVKRIINEPTAAALAYGIDKKQGDNIVAVYDLGGGTFDISIIEIDSVDGEQTFEVLATNGDTHLGGEDFDNRMIKYLADEFKKEQGLDLRNDPLAMQRLKEAAEKAKIELSSTTQTEVNLPYITADATGPKHLVVKITRAKLESLVEDLIKRSLEPLKVALADADLSVSDINEVILVGGQTRMPKVREEVSAFFGKELRQDVNPDEAVAIGAAVQAGVLSGDVKDVLLLDVTPLSLGIETMGSVMTKLIEKNTTIPTKASQTFSTADDNQSAVTIHVLQGERKQSSGNKSLGQFNLEGIEAAPRGMPQIEVAFDIDADGILHVSATDKKTGKAQNITIKASSGLSDEEVEAMVRDAEAHADEDAKFEELVQARNQADGMVHGTKKQIEEAGEALPADEKEKIEAAMANVETAVKGNDKEAIEKSTQELMEASAKLMEIAQAKAQAQQGQPEGEAKAAKQDDDVVDAEFEEVKDDKK |
| 6094 | sp|P50026|DNAJ\_SYNE7 | MQNFRDYYALLGIPQSADQAAIKAAFRKLARQCHPDLNPGDRQAEERFKQISEAYEILSDPDRRAEYQRFSRYWQQQGAASVGSDDDYGDFPDFDIFVDELLGRRTVERSPRRSARRSAATSSALSRDLERSLEVDPKTALQGGSAQLQLEDGRLLEVDIPAGIQAGEYLRLRGQGIKGGDLLLRVQLQASNFQVQGSDVIYTLNVSPAMAVLGGQVTVPTLDGPVQMKLPASLRSGQRLRLAGKGYSKPSGDRGDQIVVIQLQLPTRLSPEERQLYEQLRSLEQSR |
| 6095 | sp|Q8DH10|DNAK3\_THEEB | MRSRSNGMGKIVGIDLGTTNSVIAVLEGGKPVVIANAEGSRTTPSVVAFGKDGERLVGQLARRQAVLNPQNTFYAVKRFIGREYSELTAESKRVPYTIRRDESGKVRIKCPRLQREFAPEEISAMVLRKLVEDASRYLGEPVTDAVITVPAYFNDSQRQATRDAGRIAGLNVRRIINEPTAAALAYGLDRQQEQTILVFDLGGGTFDVSILEVGDGVFEVKATSGDTQLGGNDFDKLIVDWLAEDFLAKEGIDLRRDRQSLQRLTDAAEKAKIELSGLLETNIDLPFVTATAEGPKHIETTLSRRQFEDLSQGLLQRLRYPVEQALMDAHLTPSQIDAVVLVGGATRMPMVQDLVRQMIGREPKQNVNPDEVVAVGAAIQAGILAGDVKDILLLDVTPLSLGVETIGGVTKVLIPRNTTIPVRRSDIFSTSENNQSQVEIHVVQGERELAAHNKSLGRFKLTGIPPAPRGVPQIQVSFDLDANGLLQVVALDRFSGREQSVVIQGASTLSEEEIQQMLLDAESNAAGDRQRRARIEKRNRSQDLINRAERQLREAAQEFGYQFAAEQRRGIEALVRQLQEAIRNEDDRQIDLTYAALEERLYDFIRQLRLREEEAEDDEEVFKLPNLREAVNKGLDVVRGRERRRDDDEDEWAEPPRTRRSRSYSQRADSAPWDDWDDDW |
| 6096 | sp|Q15UD2|DNAJ\_PSEA6 | MSKRDYYEVLGVEKSASERDIKKAYKRLAMKYHPDRTQGDKAMEEKFKEVQEAYEILTDSQKRAAYDQYGHAGVDPNRGHGGGHGAGDFGDIFGDVFGDIFGGGRGGGRQSRAARGSDLRYNLELSLEEAVRGKSVEIRVPTLAECDTCDGSGAKKGSSAKTCTTCHGQGQVQMRQGFFAVQQACPTCGGKGKIITDPCDVCHGQGRVEKTKTLSVKVPAGVDTGDRIRLSNEGEAGENGAPAGDLYVQVHVKQHKIFERDGNNLYCEVPLSFTRAAIGGEIEVPTLEGKVKLKVTPETQTGKMFRLRNKGVKSVRSGSVGDLICKVVIETPVNLNSRQKELLQELEESMGKGKETAKNRPKESGFFDGVKKFFDDLTN |
| 6097 | sp|Q128K2|DNAK\_POLSJ | MGRIIGIDLGTTNSCVSIMEGNTPRVIENSEGARTTPSIVAYQEDGEVLVGASAKRQAVTNAKNTLYAIKRLIGRKFTEKEVQKDINLMPYKIAAADNGDAWVEVRGKQISAQQVSADILRKMKKTAEDYLGEPVTEAVITVPAYFNDAQRQATKDAGRIAGLEVKRIINEPTAAALAFGLDKQEKGDRKIAVYDLGGGTFDISIIEIADVDGEKQFEVLSTNGDTFLGGEDFDQRIIDYIIAEFKKEQGVDLSKDVLALQRLKEAAEKAKIELSNSAQTDINLPYITADASGPKHLNIKLSRAKLEALVEELLERTLAPCRTAIKDAGVSVGDIHDVILVGGQTRMPKVQEMVKALFGKEPRKDVNPDEAVAVGAAIQGQVLSGDRTDVLLLDVTPLSLGIETMGGVMTKMIKKNTTIPTKFAQTFSTAEDNQPAVTIKVFQGEREIASGNKALGEFNLEGIPPAARGTPQIEVSFDIDANGILHVGAKDKGTGKENKITIKANSGLSEAEIQQMVKDAELHSADDKKKVEFVQAKNNAEAMVHSVRKSLGEYGDKLEVGEKEKIETAIKDMEEALKGDDKDAIEAKNTALMEASQKLGEKMYADMQSSQAAGAEAAAGGAGAEQAHAKPADDNVVDAEVKEVKKG |
| 6098 | sp|Q83MZ4|DNAJ\_TROWT | MEDLYGILGVDHNASVDEIRRAYRRLARELHPDINPDSADRFKAVTHAYNILSDPEQRQRYDRHVSGGFSSDFNLSDLFQSFFDTSAEFQRGSDLLVNIDIDLKTAIYGGSQVVKIDSLVVCDVCNGTRSEPGYKAEVCFDCNGSGVVRGEVRTTLGNLITQNTCSKCRGNGERIDHPCRRCYGNGSRSAPRDITINIPPGVETGMRIKIPNMGNAGGAMPGDLYVDCKVKEHPYFLRDGQDLYCRLDISLVDALLGTKVKIDSLDGELAVVIPALSQNRDVIRIANKGAVTLRGGKGDLCIVLNVLLMQKLDPEHRALLKKIMPNPPKPKLAKRTSGFFSWLKNKFT |
| 6099 | sp|O32482|DNAK\_LEGPN | MAKIIGIDLGTTNSCVAVMEGDKPKVIENSEGHRTTPSIVAFTDDNEILVGQSAKRQSVTNPEKTLFAIKRLIGRRFDDPIVQKDIKMVPYKIMKADNGDAWVRVKDQDKAPPQISAEVLRKMKKTAEDYLGEEVKEAVITVPAYFNDSQRQATKDAGRIAGLEVKRIINEPTAAALAYGMDKKRGDSVIAVYDLGGGTFDISIIEIAEVDGEHQFEVLATNGDTFLGGEDFDLALIEYLASEFKKDTGIDLHNDPLALQRLKEAAEKAKIELSSAQQTDVNLPYITADASGPKHLNIKLTRAKLESLVEKLVERTIEPCKTALKDAGLTVSQINEVILVGGQTRMPLVQKTVEEFFGKEPRKDVNPDEAVAVGAAIQAAVLSGEVKDILLLDVTPLSLGIETMGGVMTKLIEKNTTIPTKATQVFSTADDNQTAVTVHVLQGEREQASANKSLGRFDLRDIPPAPRGVPQIEVTFDIDANGILNVSAKDKATGKAQSIVIKASSGLSEEEVAAMVKDAQSHAEEDKKFKEMAELRNQADSLIHSCEKSMKDLADELSEDEKRGIETAISELKEAVQGTDKARIEDKLKVLTDASAKMAERIYAKKSSEGQAAQGQTQSQESTKPAEEGVVDAEFEEVKEEDKK |
| 6100 | sp|A1B4F0|DNAJ\_PARDP | MAKRDYYEVLGVARGASADEIKKAYRAKAKQLHPDRNKDCKVSEAAFKEVNEAYECLKDDQKKAAYDRFGHAAFENGGGGFGRGNGHGDFGSAFADVFEDLFGDMMGRRAGGGGRSRASRGQDLRYNLRVSLEEAYNGAQKTINVPGSVACAACNGTGAEGAVEPATCPTCSGMGKVRATQGFFTVERTCPTCSGHGQIVKNPCQECRGAGRVQKERTLSVNIPAGVETGTRIRLAGEGDAGMRGGPAGDLYIFIEVREHPIFMRDGRMLACQVPVSMTTAALGGEIEVPTIDGGRSRVKVPPGTQSGKQLRLRGKGMPPLRHGPGLNGEAGDMLIELAVETPVNLTARQKELLREFEAINADNNPQTQGFFQKIKGFWDEMKG |
| 6101 | sp|B4F2V5|DNAK\_PROMH | MGKIIGIDLGTTNSCVAVMDGKNARVIENGEGDRTTPSIVAYAQDGEILVGQPAKRQAVTNSQNTLFAIKRLIGRRFEDAEVQRDVSIMPYKIIKADNGDAWVEARNEKMAPPQVSAEVLKKMKKTAEDYLGEPVTEAVITVPAYFNDAQRQATKDAGRIAGLDVKRIINEPTAAALAYGLDREVGNRTIAVYDLGGGTFDISIIEIDEVDGEKTYEVLSTNGDTHLGGEDFDSRLINYLVDEFKKEQGIDLRNDPLAMQRLKEAAEKAKIELSSAQQTDVNLPYVTADATGPKHLNIKVTRAKLESLVEDLVKRSMDPVKVALEDAGLKVSEVNDVILVGGQTRMPMVQKTVAEFFGKEPRKDVNPDEAVAMGAAVQGGVLAGDVKDVLLLDVTPLSLGIETMGGVMTSLIAKNTTIPTKHSQVFSTAEDNQSAVTIHVLQGERKRASDNKSLGQFNLDGIQPAPRGMPQIEVTFDIDADGILHVSAKDKNSGREQNITIKASSGLNEEEIQKMVRDAEANAEADRKFEELVQTRNQADQLVHGTRKQIEEAGDKLAANDKEAIEKALSELEIASKGEDKAAIEAKLQALVEASKPLLEIAQQQAQAGAGNTADATDAGAKKDDDVVDAEFEEVDGKDKK |
| 6102 | sp|B5R5I3|DNAJ\_SALEP | MAKRDYYEILGVSKTAEEREIKKAYKRLAMKYHPDRNQGDKEAEAKFKEIKEAYEVLTDAQKRAAYDQYGHAAFEQGGMGGGFGGGFNGGADFSDIFGDVFGDIFGGGRGRQRAARGADLRYNMDLTLEEAVRGVTKEIRIPTLEECDVCHGSGAKAGTQPQTCPTCHGSGQVQMRQGFFAVQQTCPHCQGRGTLIKDPCHKCHGHGRVEKSKTLSVKIPAGVDTGDRIRLAGEGEAGEHGAPAGDLYVQVQVKQHPIFEREGNNLYCEVPINFAMAALGGEIEVPTLDGRVMLKVPSETQTGKLFRMRGKGVKSVRGGAQGDLLCRVVVETPVGLSEKQKQLLKDLQESFGGPTGEKNSPRSKSFFDGVKKFFDDLTR |
| 6103 | sp|Q75WD2|DNAJ\_ACEP3 | MATQLDYYAILEVSRTATADELKKSYRKLAMKYHPDRNPGDDAAEAKFKEINQAYDILKDEQKRAAYDQYGHAAFEGGGPGPGGFDFGGGFGGGGLGDIFEQMFGDMMGGRRGGRARTGNDIQTHVEITLEEAFSGVKKDVRVITRVACEACHGTGSDDGASGVEVCPSCHGAGKVRAQQGFFVVERPCPTCHGAGKVVKNPCKVCHGEGTVEKERTVEVQIPAGVEDGTRIRLSGEGEAGGNGVPPGDLYIHVSVTEHGIFQRDGANIYCRVPLRMAQAALGTEIEVPVIDGSRTKVKIPAGTQTGAHFRLRGKGFSVLRSTARGDMYIQVTVETPQNLSKRQRELLEEFEKEAGEDVKQSPEHTGFFRRVRDFFEGKE |
| 6104 | sp|Q11KJ5|DNAJ\_CHESB | MKADFYETLCVSRNADEKELKSAFRKLAMQYHPDRNPGDMEAEKKFKEINEAYETLRDPQKRAAYDRFGHAAFEQGMGARGGFNGGGFADIFEDIFGDIMGGARQRRSGGRERGADLRYNMEITLEESFTGKTAQIRVPTAVTCDECAGSGARPGSSPVQCPMCHGAGRVRASTGGFFSIERTCPQCQGRGQIIDDPCRKCSGQGRLTEERSLSVNIPAGIEDGTRIRLAGEGEAGLRGGPPGDLYIFLSIKPHEFFQRDGADLYCKVPISMTTAALGGSFEVTTLDGTQTRVKVPEGTQSGRQFRLRGKGMPVLRQPQVGDLYIQVAVETPQNLTRRQRELLEEFEKISSGENSPQSTGFFARMKDFFETFGE |
| 6105 | sp|A5FGL1|DNAK\_FLAJ1 | MGKIIGIDLGTTNSCVSVMEGNEAVVIPNAEGKRTTPSIIAFVEGGEIKVGDPAKRQAVTNPTKTIASIKRFMGHTFAETQDEAKRVPYSVVKGDNNTPRVDIDGRLYTAQELSAMTLQKMKKTAEDYLGQTVTEAVITVPAYFNDAQRQATKEAGEIAGLKVMRIINEPTAAALAYGLDKKGNDQKIAVYDLGGGTFDISVLELGDGVFEVLSTNGDTHLGGDDFDQVIIDWLADEFKTEEGIDLRLDPMSLQRLKEAAEKAKIELSSSAETEINLPYVTATASGPKHLVKKLSRAKFEQLSDTLVKRSMEPVAKALKDAGLSTSDIDEVILVGGSTRMPRIADEVEKFFGKKASKGVNPDEVVAIGAAIQGGVLSGDVKDVLLLDVTPLSLGIETMGGVLTKLIESNTTIPTKKSQVFSTAADSQPSVEIHVLQGERAMAADNKTIGRFHLDGIPPAPRGVPQIEVTFDIDANGIIKVSATDKGTGKSHDIRIEASSGLTAEEIEKMKKDAEANADADRIAKERAEKLNEADSTIFQTESQLKELGDKLTDDQKTAIEYALTELRMAHQSQDLDAIQKGLDNVNAAWKTATEAMYAQGGDQGQQAAPQQEQSGDNVEDVEFEEVK |
| 6106 | sp|Q7NXI1|DNAJ\_CHRVO | MSKRDYYDVLGVNRDASDDDIKKAYRKLAMKYHPDRNPDSKEAEDKFKEVKEAYEILSDSQKRGAYDQFGHAGVDPQAGMGGGGQGFGGFGDFADIFSDIFGGGRGGSGGGRSNVYRGADLRYNMEITLEEAARGCEKQIRIPSHESCSTCNGTGAKPGTQPKTCATCGGHGQVRMSQGFFSIQQTCPTCHGTGKQITDPCGSCHGAGQKKTTKTLNVKIPAGVDEGDRIRLGGEGEPGQNGGPAGDLYVVTHIKQHAVFQRDGMDLHCEMPISFSTAALGGEVEIPTLDGMAKVKISPETQSGRVYRLRGKGVKAVRGAEYGDLHCHVVVETPVKLTERQKELLREFEAISQGDVATHNPRSKSFMDKLRDFFE |
| 6107 | sp|Q7VQL3|DNAJ\_BLOFL | MVKSDYYEILGVSKNADEREIKKSYKRLAMKFHPDRNPGDVSAESKFKEIKEAYEVLSNPEKRSAYDQYGHAIFEQNSGGMGGSNTGGSDFSDIFGDVFGDIFGGSRRSRSRRGSDLRYDIELSLEEAVKGVVREICVPTLVTCLQCRGSGAKSSASIVSCVTCHGHGQIQMRQGFFSVQQSCPSCNGHGKIIKEICNKCRGSGRIERTKTLSVKIPAGVSTGDRIRLSGEGESGKNGAPAGDLYVQVQIKKHPIFDREEKNLYCEVPISFSMAALGGEIEVPTLDGRVKLKIPPETQTGKLFRMRGKGVKSVRGIGGHGDLLCRVVVETPVRLSDRQKQLLQDLSDSFGGPYGHKNSPKSKTFFDGVKKFFDDLTR |
| 6108 | sp|Q64VI7|DNAJ\_BACFR | MAEKRDYYEVLEVTKESTVEEIKKAYRKKAIQYHPDKNPGDKEAEEKFKEAAEAYDVLSNPDKRARYDQFGHAGMSGAAGNGGPFGGFSGGMSMDDIFSMFGDIFGGHSGGGFGGGFGGFGGFGGGGSQQRKFRGSDLRVKVKLNLKEISTGVEKKFKLKKYIPCSHCHGTGAEGNSGSETCPTCKGSGSVIRNQQTILGTMQTRTTCPTCNGEGKIIKDKCKVCGGEGIEYGEEVVTVKIPAGVAEGMQLSMGGKGNAGKHNGIPGDLLILVEEEPHPELIRDENDLVYNLLLSFPTAAIGGAVEIPTIDGKVKVKIEAGTQPGKVLRLRGKGLPSVNGYGTGDLLVNVSVYVPETLSKEEKSTLEKLEESKNFKPSTSIKEKIFKKFRSLFD |
| 6109 | sp|C0ZB49|DNAJ\_BREBN | MKRDLYEVLGVAKDADADEIKKAYRKLARQYHPDVNKEADAEEKFKEVKDAYDILSEPQKRAQYDRFGHQDPNQGFGGGGFDGSGMGGFGDIFDMFFGGNGRRANPNAPRKGSDLQFGLSIDFIDAIFGKETDVEIPKEAECDTCLGSGAKPGSGVDTCKTCSGTGQQEVVANTPFGRIVNRRVCSTCEGKGKVVKEKCSTCRGSGRVKVRRKIHLNIPAGVDDGAQLRVTGEGEPGANGGPPGDLYVVLRVKSHEFFEREGNDIYCEVPLTYAQAALGDEIEVPTVDGRVKLKIPAGTQTETFFRLRGKGVPHLRGNGRGDQHVKVRVITPTKLSDKQKELLRELAELSGEKPGQHGGEDEGFFEKMKRAFRGE |
| 6110 | sp|O06942|DNAK\_STRMU | MSKIIGIDLGTTNSAVAVLEGTESKIIANPEGNRTTPSVVSFKNGEIIVGDAAKRQAVTNPETILSIKSKMGTSEKVSANGKEYTPQEISAMILQYLKGYAEDYLGEKVEKAVITVPAYFNDAQRQATKDAGKIAGLEVERIVNEPTAAALAYGLDKTDKDEKILVFDLGGGTFDVSILELGDGVFDVLATAGDNKLGGDNFDQKVIDWLVEEFKKENGIDLSTDKMALQRLKDAAEKAKKDLSGVTSTQISLPFITAGEAGPLHLETSLSRAKFDDLTRDLVERTKTPVRQALSDAGLSLSEIDEVILVGGSTRIPAVVDAVKAETGKEPNKSVNPDEVVAMGAAIQGGVITGDVKDVVLLDVTPLSLGIETMGGVFTKLIDRNTTIPTSKSQVFSTAADNQPAVDIHVLQGERPMAADNKTLGRFQLTDIPAAPRGVPQIEVTFDIDKNGIVSVKAKDLGTQKEQTIVIQSNSGLTDEEIDKMMKDAEANAEADAKRKEEVDLKNEVDQAIFTTEKTIKETEGKGFDTERDAAQAALDDLKKAQESGNLDDMKAKLEALNEKAQALAMKLYEQAAAAQQAQAGQEGAQSSDSDSSDKGGDDVVDGEFTEK |
| 6111 | sp|P22239|DHB\_CRAPL | MAQFGGEKYGGRHTDEYGNPIQQGAGAHRGGGIMGGGQQAGQHGTTGVLGHGTAGQHGTTGGGLGHGTAGTGGALGGQHRRSGSSSSSSSSESDGEGGRRKKGMKDKMKEKLPGGHGTTTDQQQYGTAATHGQAQQHEKKGIMDKIKEKLPGGQH |
| 6112 | sp|Q10356|DJ1\_SCHPO | MVKVCLFVADGTDEIEFSAPWGIFKRAEIPIDSVYVGENKDRLVKMSRDVEMYANRSYKEIPSADDFAKQYDIAIIPGGGLGAKTLSTTPFVQQVVKEFYKKPNKWIGMICAGTLTAKTSGLPNKQITGHPSVRGQLEEGGYKYLDQPVVLEENLITSQGPGTAMLFGLKLLEQVASKDKYNAVYKSLSMP |
| 6113 | sp|B3ERN8|DNAK\_AMOA5 | MGKIIGIDLGTTNSCVAVMEGNEPVVIANSEGKRTTPSVVAFLNEGQGERKVGDAAKRQAIINPQNTISSIKRFMGKRYSDIAEESKLVPYQLEKGNNDTVRVRIGDRTYTPQEISAMILQKMKTTAEDYLGTTVKEAVITVPAYFNDAERQATKEAGQIAGLEVKRIINEPTAAALAYGLDKKNQDMKIAVFDLGGGTFDISILELGDGVFEVKSTNGDVHLGGDNFDQKLIDWLAEEFKKEESVDLRKDPTALQRLKEAAEKAKIELSGSSTTEVNLPYITAIDGVPKHLVKKITRAQFEQLVDGLVRRTLEPCKKAMQDAGLTVADIDEVILVGGSTRIPKIQEEVEKFFNKKPSKGVNPDEVVAVGAAIQGGVLTGEVKDVLLLDVIPLSFGIETLGGVYTKLIEANTTIPTKKSEVFSTAADSQSSVEIHVLQGERAMARDNRTIGKFHLDGIPPAPRGIPQIEVTFDIDANGILNVSAKDKGTGKEQKIRIEASSGLTDEEIKKMKQEAEANAEADKQEREKVDKLNTADATIFQAQKQLQELGDKIPADTKKSAEDAIEELKKAHEAKDIAAIDTAMSKVNAALQQLYAAAQQAGQAEGQAAQEPSQSTGNAQAEATDAEYEEVK |
| 6114 | sp|O80917|DRE2E\_ARATH | MEKEDNGSKQSSSASVVSSRRRRRVVEPVEATLQRWEEEGLARARRVQAKGSKKGCMRGKGGPENPVCRFRGVRQRVWGKWVAEIREPVSHRGANSSRSKRLWLGTFATAAEAALAYDRAASVMYGPYARLNFPEDLGGGRKKDEEAESSGGYWLETNKAGNGVIETEGGKDYVVYNEDAIELGHDKTQNPMTDNEIVNPAVKSEEGYSYDRFKLDNGLLYNEPQSSSYHQGGGFDSYFEYFRF |
| 6115 | sp|Q8GUW4|DRE1B\_ORYSI | MEVEEAAYRTVWSEPPKRPAGRTKFRETRHPVYRGVRRRGGRPGAAGRWVCEVRVPGARGSRLWLGTFATAEAAARAHDAAALALRGRAACLNFADSAWRMPPVPASAALAGARGVRDAVAVAVEAFQRQSAAPSSPAETFADDGDEEEDNKDVLPVAAAEVFDAGAFELDDGFRFGGMDAGSYYASLAQGLLVEPPAAGAWWEDGELAGSDMPLWSY |
| 6116 | sp|Q9JL04|FMN2\_MOUSE | MGNQDGKLKRSAGDASHEGGGAEDAAGPRDAEITKKASGSKKALGKHGKGGGGSGETSKKKSKSDSRASVFSNLRIRKNLTKGKGACDSREDVLDSQALPIGELDSAHSIVTKTPDLSLSAEETGLSDTECADPFEVIHPGASRPAEAGVGIQATAEDLETAAGAQDGQRTSSGSDTDIYSFHSATEQEDLLSDIQQAIRLQQQQQQKLLLQDSEEPAAPPTAISPQPGAFLGLDQFLLGPRSEAEKDTVQALPVRPDLPETTKSLVPEHPPSSGSHLTSETPGYATAPSAVTDSLSSPAFTFPEAGPGEGAAGVPVAGTGDTDEECEEDAFEDAPRGSPGEEWVPEVEEASQRLEKEPEEGMRESITSAVVSLPGSPAPSPRCFKPYPLITPCYIKTTTRQLSSPNHSPSQSPNQSPRIKKRPDPSVSRSSRTALASAAAPAKKHRLEGGLTGGLSRSADWTEELGVRTPGAGGSVHLLGRGATADDSGGGSPVLAAKAPGAPATADGFQNVFTGRTLLEKLFSQQENGPPEEAEKFCSRIIAMGLLLPFSDCFREPCNQNAGSSSAPFDQDQLYTWAAVSQPTHSMDYSEGQFPRREPSMWPSSKLPEEEPSPKDVDTEPKSSILESPKKCSNGVQQEVFDVKSEGQATVIQQLEQTIEDLRTKIAELEKQYPALDLEGPRGLSGLENGLTASADVSLDALVLHGKVAQPPRTLEAKSIQTSPTEEGRILTLPPPKAPPEGLLGSPAAASGESALLTSPSGPQTKFCSEISLIVSPRRISVQLDAQQIQSASQLPPPPPLLGSDSQGQPSQPSLHTESETSHEHSVSSSFGNNCNVPPAPPLPCTESSSFMPGLGMAIPPPPCLSDITVPALPSPTAPALQFSNLQGPEMLPAPPQPPPLPGLGVPPPPPAPPLPGMGIPPPPPLPGMGIPPPPPLPGMGISPLPPLPGMGIPPPPPLPGVGIPPPPPLPGVGIPPPPPLPGVGIPPPPPLPGVGIPPPPPLPGVGIPPPPPLPGVGIPPPPPLPGVGIPPPPPLPGVGIPPPPPLPGSGIPPPPALPGVAIPPPPPLPGMGVPPPAPPPPGAGIPPPPLLPGSGPPHSSQVGSSTLPAAPQGCGFLFPPLPTGLFGLGMNQDRVARKQLIEPCRPMKPLYWTRIQLHSKRDSSPSLIWEKIEEPSIDCHEFEELFSKTAVKERKKPISDTISKTKAKQVVKLLSNKRSQAVGILMSSLHLDMKDIQHAVVNLDNSVVDLETLQALYENRAQSDELEKIEKHSRSSKDKENAKSLDKPEQFLYELSLIPNFSERVFCILFQSTFSESICSIRRKLELLQKLCETLKNGPGVMQVLGLVLAFGNYMNAGNKTRGQADGFGLDILPKLKDVKSSDNSRSLLSYIVSYYLRNFDEDAGKEQCVFPLAEPQELFQASQMKFEDFQKDLRKLKKDLKACEAEAGKVYQVSSAEHMQPFKENMEQFISQAKIDQESQEAALTETHKCFLETTAYYFMKPKLGEKEVSPNVFFSVWHEFSSDFKDAWKKENKLILQERVKEAEEVCRQKKGKSLYKVKPRHDSGIKAKISMKT |
| 6117 | sp|O81077|ABAH2\_ARATH | MQISSSSSSNFFSSLYADEPALITLTIVVVVVVLLFKWWLHWKEQRLRLPPGSMGLPYIGETLRLYTENPNSFFATRQNKYGDIFKTHILGCPCVMISSPEAARMVLVSKAHLFKPTYPPSKERMIGPEALFFHQGPYHSTLKRLVQSSFMPSALRPTVSHIELLVLQTLSSWTSQKSINTLEYMKRYAFDVAIMSAFGDKEEPTTIDVIKLLYQRLERGYNSMPLDLPGTLFHKSMKARIELSEELRKVIEKRRENGREEGGLLGVLLGAKDQKRNGLSDSQIADNIIGVIFAATDTTASVLTWLLKYLHDHPNLLQEVSREQFSIRQKIKKENRRISWEDTRKMPLTTRVIQETLRAASVLSFTFREAVQDVEYDGYLIPKGWKVLPLFRRIHHSSEFFPDPEKFDPSRFEVAPKPYTYMPFGNGVHSCPGSELAKLEMLILLHHLTTSFRWEVIGDEEGIQYGPFPVPKKGLPIRVTPI |
| 6118 | sp|Q9HG01|BIP\_PICAN | MLTFNKSVVSCAAIIYALLLVVLPLTTQQFVKAESNENYGTVIGIDLGTTYSCVGVMKAGRVEIIPNDQGNRITPSYVAFTEDERLVGDAAKNQIASNPTNTIFDIKRLIGHRFDDKVIQKEIKHLPYKVKDQDGRPVVEAKVNGELKTFTAEEISAMILGKMKQIAEDYLGKKVTHAVVTVPAYFNDAQRQATKDAGTIAGLEVLRIVNEPTAAAIAYGLDKTDEEKHIIVYDLGGGTFDVSLLTIAGGAFEVLATAGDTHLGGEDFDYRVVRHFIKVFKKKHGIDISDNSKALAKLKREVEKAKRTLSSQMSTRIEIDSFVDGIDFSESLSRAKFEELNMDLFKKTLKPVQQVLDDAKMKPDEIDDVVFVGGSTRIPKVQELIENFFNGKKISKGINPDEAVAFGAAVQGGVLSGEEGVEDIVLIDVNPLTLGIETSGGVMTTLIKRNTPIPTQKSQIFSTAADNQPVVLIQVYEGERAMAKDNNLLGKFELTGIPPAPRGVPQIEVTFTLDSNGILKVSATDKGTGKSNSITITNDKGRLSKEEIEKKIEEAEKFAQQDKELREKVESRNALENYAHSLKNQANDENGFGAKLEEDDKETLLDAINEALEFLEDNFDTATKDEFDEQKEKLSKVAYPITSKLYDAPPTSDEEDEDDWDHDEL |
| 6119 | sp|P60533|CH10\_MYCPA | MAKVNIKPLEDKILVQANEAETTTASGLVIPDTAKEKPQEGTVVAVGPGRWDDDGAKRIPLDVSEGDTVIYSKYGGTEIKYNGEEYLILSARDVLAVVSK |
| 6120 | sp|Q5RD91|CHRD1\_PONAB | MALLCYNRGCGQRFDPETNSDDACTYHPGVPVFHDALKGWSCCKRRTTDFSDFLSIVGCTKGRHNSEKPPESVKPEVKTTEKKELSELKPKFQEHIIQAPKPVEAIKRPSPDEPMTNLELKISASLKQALDKLKLSSGNEENKKEEDNDEIKIGTSCKNGGCSKTYRGLESLEEVCVYHSGVPISHEGMKYWSCCRRKTSDFNTFLAQEGCTKGKHMWTKKDAGKKVVPCRHDWHQTGGEVTISVYAKNSLPELSRVEANSTLLNVHIVFEGEKEFEQNVKLWGVIDVKRSYVTMTATKIEITMRKAEPMQWASLELPAAKKQEKQKDDTTD |
| 6121 | sp|Q4FNP9|DNAK\_PELUB | MSKIIGIDLGTTNSCVSIMEGSQPKVLENAEGARTTPSVVAFTEDGEKLVGQPAKRQAVTNPENTIFAVKRLIGRSFEDPTVKKDIAAAPFKIVNSEKGDAWIEAKGEKYSPSQISAFILQKMKETAEKYLGQEVTKAVITVPAYFNDAQRQATKDAGKIAGLEVLRIINEPTAASLAYGLDKKQNKKIAVYDLGGGTFDVSILELGDGVFEVKSTNGDTFLGGEDFDNTIVDYLIGEFKKDSGIDLRSDKLALQRLKEAAEKAKIELSSAEQTDVNLPFITADKTGPKHINLKMTRAKLEALVEDLISRTLPPCKTALKDAGLTASEIDEIVMVGGMTRMPKVLSEVKNFFGKEPNKSVNPDEVVAMGAAIQAGVLQGDVKDVLLLDVTPLSLGIETLGGVSTKLIEKNTTIPTKKSQVFSTADDNQPAVSIRVLQGEREMASDNKMLGNFELVGIAPAPRGVPQIEVTFDIDANGIVSVSAKDKGTGKEQKIQIQASGGLSDEEIEKMVKDAEANKEEDKKKRESVDVRNQADTLLHSTEKNLKEHGAKVSDADKKAIEDASTDLKEAIKGTDTEEIKKKTETLVQASMKLGEAIYKSQEKKEGSPKEGDKNDEGKKDDNVVDADFEEVKEESKEGKEEDKEKSA |
| 6122 | sp|P94317|DNAK\_BRADU | MGKVIGIDLGTTNSCVAVMDGKNAKVIENSEGMRTTPSIVAVTDDGERLVGQPAKRQAVTNPERTFFAVKRLIGRRYDDPMVEKDKKLVPYKIVKASNGDAWVEADGQTYSPSQVSAFILQKMKETAEAHLGQKVDQAVITVPAYFNDAQRQATKDAGKIAGLEVLRIINEPTAAALAYGLDKTKTGTIAVYDLGGGTFDISILEIGDGVFEVKSTNGDTFLGGEDFDMRLVGYLADEFQKEQGINLRNDKLALQRLKEAAEKAKIELSSTTQTEINLPFITADQTGPKHLTMKLTRAKFEALVDDLIQKTVEPCRKALKDAGVTAGEIGEVVLVGGMSRMPKVQEVVKQLFGKEPHKGVNPDEVVAIGAAIQAGVLQGDVKDVLLLDVTPLSLGIETLGGVFTRIIDRNTTIPTKKSQVFSTAEDNQNAVTIRVFQGEREMAADNKMLGQFDLMGIPPAPRGMPQIEVTFDIDANGIVNVSAKDKATGKEQQIRIQASGGLSEADIEKMVKDAEANAEADKKRREAVTAKNEADGLVHSTEKALAEHGSKVAETERRAIEDAVSDLKEALKGDDAEAIKAKTQTLAQASMKLGEAMYKQQAEADAKKDAAKDDVVDAEFTEVDDDKNNKKSA |
| 6123 | sp|C5B7L7|DNAK\_EDWI9 | MGKIIGIDLGTTNSCVAVMDGGKARVLENAEGDRTTPSIIAYTQDGEVLVGQPAKRQAVTNPQNTLFAIKRLIGRRFEDAEAQRDKDIMPYKIVAADNGDAWVEVKDQKIAPPQISAEVLKKMKKTAEDFLGETVTEAVITVPAYFNDAQRQATKDAGRIAGLDVKRIINEPTAAALAYGMDKGVGNRTIAVYDLGGGTFDISIIEIDDVDGEKTFEVLATNGDTHLGGEDFDSRLINYLVDEFKKEQGIDLRNDPLAMQRLKEAAEKAKIELSSAQQTDVNLPYITADATGPKHMNIKVTRAKLESLVEELVARSMEPLKVALKDAGLSVSDIDDVILVGGQTRMPMVQKQVADFFGKEPRKDVNPDEAVAIGAAVQGGVLAGDVKDVLLLDVTPLSLGIETMGGVMTALISKNTTIPTKHSQVFSTAEDNQSAVTIHVLQGERKRAADNKSLGQFNLDGIQPAPRGMPQIEVTFDIDADGILHVSAKDKNSGREQNITIKASSGLSEDEIKQMVRDAEANAEADRKFEELVQVRNQADQLVHGTRKLVEEAGDKLPATDKSAIEEAVKALEAASKGEDKADIEAKIQALVQSSAKLQELAQQQAQAGEAQADTSAKKDDDVVDAEFEEVKDKK |
| 6124 | sp|A1S8K7|DNAK\_SHEAM | MGKIIGIDLGTTNSCVAVLDGGKARVIENAEGDRTTPSIIAFTEDETLVGQPAKRQAVTNPTNTFFAIKRLIGRRFKDDEVQRDVNIMPFKIIQADNGDAWVESRGKKMAPPQVSAEVLKKMKKTAEDFLGEEVTEAVITVPAYFNDAQRQATKDAGRIAGLDVKRIINEPTAAALAYGIDKKQGDNIVAVYDLGGGTFDISIIEIDNNDGDQTFEVLATNGDTHLGGEDFDNRLINYLADEFKKEQGLDLRNDPLAMQRLKEAAEKAKIELSSTNQTEVNLPYITADATGPKHLVVKVTRAKLESLVEDLIQRSLEPLKVALADADLSVSDINEVILVGGQTRMPKVQEAVTNFFGKEPRKDVNPDEAVAVGAAVQAGVLAGDVKDVLLLDVTPLSLGIETMGSVMTKLIEKNTTIPTKASQVFSTADDNQSAVTIHVLQGERKQASANKSLGQFNLEGIEPAPRGMPQIEVTFDIDADGILHVSAKDKKTGKEQKITIKASSGLSDEEVAQMVRDAEAHADEDKKFEELAQARNQADGLVHATKKQVEEAGDALGSDDKAKIEAAIAEVEKAVKGNDKEAIDTATQSLIEASAKLVEIAQAKAQGAQSSAQGSSAEKTADDVVDAEFEEVKDDKK |
| 6125 | sp|Q049W7|DNAJ\_LACDB | MAANRDYYDVLGVSRDASDAEISKAYRKLAKKYHPDLNHEAGAEEKYKEVNEAYEVLHDPQKRQQYDQFGQAGMNGQGGFGGQYGGQGFGGADFGDFGDIFSSFFGGARQQVDPTAPQRGADLDYTMTIDFMDAIKGKTSEISYSRSTTCEVCKGSGAEKGTHPITCDKCGGSGMMTITQRSVLGMIQRQTTCDKCAGSGVIIQHPCHNCHGKGVKTQKQTLQVKVPAGIDNGQQIRLAGQGEAGKNGGPYGDLYIVFRVRPSKDFTRRGQTIYTTVPISFAQATLGDEINVKTVYGDTKLKIPAGTQPNQKFTLKEKGVPSLRGGSTGDQVTTVEIVIPKSINEAQRKALLEFVKASGGSIAPQEKGFFERLKEKLS |
| 6126 | sp|Q3ZYV1|DNAK\_DEHMC | MGKVVGIDLGTTNSEVAVMQGGEPVVIPSAEGSTLIPSVVAINKNGERIVGRQAKNQAILNPENTVYSIKRFMGRKWGEPAGRELPVEADAKRKPYKVIQGNNNEVRVVMGDKDFSPPEVSAMILQKLKSDAEAYLGEKVTEAVITVPAYFNDAQRQATKDAGAIAGLKVLRIINEPTAAALAYGLDKKKDETIAVYDLGGGTFDISILELGEGTFQVKSTAGDTHLGGDDFDQKIIDWLIAEYKKDQGIDLSKDKTALQRLKEAAEKAKIELSTVQQTEINLPFITADASGPKHLNIILTRSKLEQMVMDLVEKSLEPCRQALKDSGKTSAEINEVILVGGQTRMPLVQQKVKDFFGKEPNKGVNPDEVVAIGAAIQAGVLKGEVSDVLLLDVIPLTLGIETLGGVSTALITRNTTIPTSKSQVFSTAADNQPSVEIHVLQGERPMAADNRTLGRFMLDGILPAPRGVPQIEVTFDIDANGMLSVKAKDKGTGREQKITITASSGLSKEEVEKMTREAEAHAVEDTKRKEEIEARNVADNLAYNAEKTLRDNKDKIPAELNTELESKIAAVRTALQGNDVEAIKKTTQELSTALQSVGSAVYGKQQEGAPAQEEPSAEGKKADDEGTVEGEFREV |
| 6127 | sp|B5YAR3|DNAK\_DICT6 | MAKIVGIDLGTTNSLIAYLEGGRPTIIPNAEGSRLTPSVVAFTKDGQLLVGEPAKRQAIVNAERTIKSIKRHMGTNYKVKIDDKEYTPQEISAMILRKLKKDAEAYLGEPIEKAVITVPAYFSDAQRQATKDAGAIAGLEVVRIINEPTAAALAYGLDKEGHQKILVFDLGGGTFDVSILEIGEGVFEVIATAGNNRLGGDDFDERIVNWLVEMFMEEHGINLKEDRTALQRLFEAAEKAKIELSSKLQTEINLPFIAMKGNTPLHISVTLTRAKFEELTYDLVEKTKEPTERALKDAGLSPSQIDKIILVGGATRMPCIQEWIKKHFGKEPQRNVNPDEAVALGAAIQAGVIGGEIRDIVLVDVTPLSLGIETLGGVFTKIIERNTPIPVSKSQIFTTAADYQTSVEIHVLQGERALAKDNISLGRFILDGIPPAPRGVPQIEVTFDIDVNGIVHVSARDKATGREQRITISNAIRLSEEEIKRMTEEAKRFEEEDRKRREEIETKNQAEHLIYTARKTLKDYGDKVSKDLVQRVEDKIKNLEELIKPERINVEQVKKGMEELTQALGEIGQFMYQSASAAGNPGQGQTNENPGGKTIDGDYKVN |
| 6128 | sp|B8I304|DNAJ\_RUMCH | MADKRDYYEVLGVDKNASDAELKKAYRNLAKKYHPDVNPGDTTAEAKFKEVNEAYEILSDSQKRSRYDQFGHAGTDPNGFGGAGGFSTDFDFGGIGDIFETFFGGSGFGGRSKTRRGPQKGADIKYSTEISFEEAAFGVEREINVSKMEVCSKCTGSGAKPGSNVTTCNHCNGTGQVQIKQNTPFGQFINTKTCDACKGEGKIITEPCPACNGKGRLRSTKKIKIDIPAGIDDGQTISLRGGGDPGVKGGPNGDLYVNIRVKPHPLFTRQGNNVVCEVPITFTQAALGAELEVPTLDGKVKYTVPEGTQTGSVFRLKGKGIPYLRGNGRGDQYVKVNIEVPKKLNDKQKALLREFAEISGDDSHEQRKGFFDKMKDAFK |
| 6129 | sp|Q9Z9E9|DNAJ\_CHLPN | MDYYSILGISKTASAEEIKKAYRKLAVKYHPDKNPGDAAAEKRFKEVSEAYEVLSDPQKRDSYDRFGKDGPFAGAGGFGGAGGMGNMEDALRTFMGAFGGEFGGGSFFDGLFGGLGEAFGMRSDPAGARQGASKKVHINLTFEEAAHGVEKELVVSGYKSCETCSGQGAVNPQGIKSCERCKGSGQVVQSRGFFSMASTCPECGGEGRIITDPCSSCRGQGRVKDKRSVHVHIPAGVDSGMRLKMEGYGDAGQNGAPSGDLYVFIDVESHPVFERRGDDLILELPIGFVDAALGMKKEIPTLLKTEGSCRLTVPEGIQSGTILKVRNQGFPNVHGKGRGDLLVRISVETPQNLSEEQKELLRTFASTEKAENFPKKRSFLDKIKGFFSDFTV |
| 6130 | sp|A7ZHA4|DNAK\_ECO24 | MGKIIGIDLGTTNSCVAIMDGTTPRVLENAEGDRTTPSIIAYTQDGETLVGQPAKRQAVTNPQNTLFAIKRLIGRRFQDEEVQRDVSIMPFKIIAADNGDAWVEVKGQKMAPPQISAEVLKKMKKTAEDYLGEPVTEAVITVPAYFNDAQRQATKDAGRIAGLEVKRIINEPTAAALAYGLDKGTGNRTIAVYDLGGGTFDISIIEIDEVDGEKTFEVLATNGDTHLGGEDFDSRLINYLVEEFKKDQGIDLRNDPLAMQRLKEAAEKAKIELSSAQQTDVNLPYITADATGPKHMNIKVTRAKLESLVEDLVNRSIEPLKVALQDAGLSVSDIDDVILVGGQTRMPMVQKKVAEFFGKEPRKDVNPDEAVAIGAAVQGGVLTGDVKDVLLLDVTPLSLGIETMGGVMTTLIAKNTTIPTKHSQVFSTAEDNQSAVTIHVLQGERKRAADNKSLGQFNLDGINPAPRGMPQIEVTFDIDADGILHVSAKDKNSGKEQKITIKASSGLNEDEIQKMVRDAEANAEADRKFEELVQTRNQGDHLLHSTRKQVEEAGDKLPADDKTAIESALTALETALKGEDKAAIEAKMQELAQVSQKLMEIAQQQHAQQQTAGADASANNAKDDDVVDAEFEEVKDKK |
| 6131 | sp|P48209|DNAK\_HAEDU | MGKIIGIDLGTTNSCVAVMDGDKPRVLENAEGARTTPSIIAYTDKETLVGQPAKRQAITNPKNTLFAIKRLIGRRFTDNEVQRDIEIMPFEIAKADNGDAWVNVKGDKLAPPQISAEVLKKMKKTAEDFLGEPVTEAVITVPAYFNDAQRQATKDAGRIAGLEVKRIINEPTAAALAYGLDSKKENQIIAVYDLGGGTFDISIIEIDNFDGEQTFEVRATNGDTHLGGEDFDNRVINYLVEEFQKEQGVDLRNDPMAMQRVKEAAEKAKIELSSAQETEVNLPYITADATGPKHLNIKVTRAKLEALVEDLVSRSLEPLKTALADAGLSVSEINDVILVGGQTRMPLVQKKVADFFGKEPRKDVNPDEAVAIGAAVQGGVLAGDVTDVLLLDVTPLSLGIETMGGVMTSLIEKNTTIPTKKSQVFSTAEDNQSAVTIHVLQGERKRAADNKSLGQFNLEGINPAPRGMPQIEVTFDIDANGIINVSAKDKNTGKEQQIKIQASSGLSDEEVEQMVRDAEANAESDRQFEELVQTRNQADSIAHATRKQISEAGDALTAEDKAKIETALAELETAAKGEDKAEIEAKIEAVIKASEPLMQAAQAKAQTNQAGEQQSSAKDDSVVDAEFEEVKENK |
| 6132 | sp|A6VNB0|DNAJ\_ACTSZ | MAKQDYYEILGVERGADEKAIKKAYKRLAMKYHPDRTKGDKTSEEKFKEINEAYEILSDKEKRAAYDQYGHAAFEQGGFGGAGAGGFGGGFGGFGGFEDIFSEMFGGGSSRQRVVRGDDLRYDIEITLEEAVRGITKDIQIQTLATCDHCNGSGAEKGSKVETCPTCHGHGRVRRQQGFFMTETTCPHCHGTGKKIEKPCKKCHGDGRVHKTESLSVKIPAGVDTGNQLRLAGKGAAGENGAPAGDLYVVIHVKEHHIFERDGNNLYCEVPISFTQAALGGEIEVPTLDGRAKLKIPEGTQTGTMFRMRGKGITAMRSGYSGDLICKITVETPVKLTDEQKDLLHKLEASLEGKTTQRPKSSSFLDGVKKFFDNLGK |
| 6133 | sp|B0UWR4|DNAK\_HISS2 | MGKIIGIDLGTTNSCVAVMDGDKPRVIENAEGERTTPSIIAYTNDNETLVGQPAKRQAVTNPKNTLFAIKRLIGRRFEDQEVQRDVAIMPFEITKADNGDAWVSVKGEKMAPPQISAEVLKKMKKTAEDFLGETVTEAVITVPAYFNDAQRQATKDAGRIAGLEVKRIINEPTAAALAYGLDKGKGNQTIAVYDLGGGTFDLSIIEIDEVGGEKTFEVLATNGDTHLGGEDFDNRVINYLVDEFKKEQGVDLRNDPLAMQRLKEAGEKAKIELSSAQQTDVNLPYITADATGPKHLNIKLTRAKLEALVEDLVARSMEPVKVALSDAGLSVSEINDVILVGGQTRMPLVQQKVAEFFGKEPRRDVNPDEAVAIGAAVQGGVLAGDVKDVLLLDVTPLSLGIETMGGVMTTLIEKNTTIPTKKSQVFSTAEDNQSAVTIHVLQGERKQASANKSLGQFNLEGINPAPRGMPQIEVTFDIDADGIIHVSAKDKGTGKEQKITIKASSGLSDEEIQQMVRDAEANAEADRKFEELVQARNQADHLVHSTRKQLAEVGEKLSAEDKAPIESAVNELETAAKGEDKTEIDAKVQALIQVSEKLLQASQQQAQADAGAQQSQSTKGGEDVVDAEFEEVKDK |
| 6134 | sp|A8Z5V5|DNAK\_SULMW | MSKIIGIDLGTTNSCVSVMEGNSPVVVPNSEGKRTTPSIIAFIEGGETKVGDPAKRQAVTNPSKTIFSIKRFMGRNFSEVTEELKNIPYKIIKGENDTPRVSIGNKLYTPQEISAMILQKMKKTAEDYLGNEVKQAVITVPAYFNDAQRQATKEAGEIAGLNVERIINEPTAAALAYGLDKNNQNKKIVVYDLGGGTFDISILELGDGVFEVLSTSGDTHLGGDDFDKVIIDWLVKEFKVEQGVDLSNDSMAYQRLKESAEKAKIELSSSTKTEINLPYITATPSGPKHLVKTLTRAKFEELSDDLIKRSLYPCKNALKASNLISKDIDEVILVGGSTRIPKIQEQVEKFFEKIPSKGVNPDEVVSIGAAIQGGVLSGDVKDVLLLDVTPLSLGIETLGGVFTKLIDSNTTIPTKKSEIFSTATDNQSAVTIRVGQGERSMFNDNKEIGRFDLIDIAPAPRGIPQIEVTFDIDANGILNVSAKDKSTGKEQSIRIQASSGLSKNEIERMKKEAQENADKDNKIKEEIEKINSADSIIFQTEKQLKEYGNKISEETKKKLEINLNNLKDARNSKNISDIDNYINKINNILSSSYQEIYKNNESVKNNESVKNNESVKNNESVKDVDFEEIK |
| 6135 | sp|C3LTA5|DNAK\_VIBCM | MGKIIGIDLGTTNSCVAVLDGDKPRVIENAEGERTTPSVIAYTDGETLVGQPAKRQAVTNPQNTLFAIKRLIGRRFEDEEVQRDIKIMPYKIVKADNGDAWVEAKGQKMAAPQVSAEVLKKMKKTAEDFLGEPVTAAVITVPAYFNDAQRQATKDAGRIAGLEVKRIINEPTAAALAYGLDKQGGDRTIAVYDLGGGTFDISIIEIDEVEGEKTFEVLSTNGDTHLGGEDFDNRMINYLVDEFKKDQGIDLRNDPLAMQRLKEAAEKAKIELSSAQQTDVNLPYITADATGPKHMNIKVTRAKLEALVEDLVQRSLEPLKVALADADLSVNDITDVILVGGQTRMPMVQKKVAEFFGKEPRKDVNPDEAVAVGAAVQGGVLAGEVKDVLLLDVTPLSLGIETMGGVMTKLIEKNTTIPTKANQVFSTAEDNQSAVTIHVLQGERKQAMYNKSLGQFNLEGINPAPRGMPQIEVIFDLDADGILHVSAKDKQTGKEQKITIQASGGLSDAEIEKMVQEAEANKEADKKFEELATARNQADQMIHATRKQITEAGEALPADEKAKIETAINELETAKKGEDKAEIDAKVQALMAAAQKLMEIAQQQAQAQGANAGQSSAKEDDVVDAEFEEVNDDKK |
| 6136 | sp|C4L8Y5|DNAK\_TOLAT | MGRIIGIDLGTTNSCVAILDGDTARVIENAEGDRTTPSIIAYTDDGEILVGQPAKRQSITNPKNTLYAIKRLIGRRYEDEEVQRDIKIMPFDIVRADNGDAWVDVKGRKLAAPQISAEVLKKMKKTAEDFLGEPVTEAVITVPAYFNDAQRQATKDAGRIAGLDVKRIINEPTAAAFAYGVNKVQGERKIAVYDLGGGTFDISIIEIDEMDGEKTFEVLSTNGDTHLGGEDFDNRLINYLVDEFKREQGIDLRKDQLALQRLKDSAEKAKIELSSAQQTEVNLPYITADATGPKHMNIKVTRSKLESLVEDLVKKTIEPLKTALKDAGLSVSQLDDIILVGGQTRMPMVQKAVADFFGKEPRKDVNPDEAVAMGAAIQGAVLAGEKHDVLLLDVTPLSLGIETMGSVMTTLIEKNTTIPTKKSQVFSTADDNQSAVTIHVLQGERKRATDNKSLGQFNLEGIRPAPRGLPQIEVTFDIDADGILHVSAKDKETGKEQNITIQASSGLSDDEIQRMVREAEANAAEDKKFEELVQARNHADALIHATRKQITEAGTALPADEKAKIDAAVKALEDALKSEDKATIEAKQQELMTASQKLMEIAQQQAQQHQHAHQGADAGADTAGGKAHDDVVDAEFEEVKDDKK |
| 6137 | sp|Q9WWG9|DNAK\_PSESG | MDRIIGIDLGTTNSCVSILENGNVKVIENAEGTRTTPSIIAYANDGEILVGQSAKRQAVTNPHNTLYAVKRLIGRKFEEDVVQKDIQMVPYKIVKADNGDAWVEVNGQKMAPPQISAEILKKMKKTAEDYLGEAVTEAVITVPAYFNDSQRQATKDAGRIASVDVKRIINEPTAAALAYGMDKAKGDHTVIVYDLGGGTFDVSVIEIAEVDGEHQFEVLATNGDTFLGGEDFDIRLIDYFVHEFKKESGMNLKGDPLAMQRLKEAAEKAKIELSSSTQTEVNLPYITADATGPKHLVVKISRSKLESLVEDLVQRTIAPCEMALKDAGIDRSKINDVILVGGQTRMPLVQKLVTEFFGKEARKDVNPDEAVAMGAAIQGAVLAGDVKDVLLLDVSPLTLGIEAMGGVMTALIKKTPRFLPRNPSVLTADDNQENAVAIHVLQGERKQAGQNKSLGKFDLAEIPPAPRGVPQIEVTFDIDANGILHVGAKDKATGKQQSIVIKANSGLSEEEIQQMVRDAEVNSEEDRKFEELASARNQGDALVHSTRKMIADAGDKVTAEQKTAVEAALVALEAAIKGDDKAAIEAKVEELSKVSAPIAQKMYAEQAENPEAAAKPAEENAKADDVVDAEFEEVKDHK |
| 6138 | sp|Q8CP17|DNAK\_STAES | MGKVIGIDLGTTNSCVSILEGDEPKVIQNPEGARTTPSVVAFKNGETQVGEVAKRQAITNPNTVQSIKRHMGTDYKVDIEGKSYTPQELSAMILQNLKSTAENYLGDTVDKAVITVPAYFNDGERQATKDAGKIAGLEVERIINEPTAAALAYGLDKTETDQKVLVFDLGGGTFDVSILELGDGVFEVLSTAGDNKLGGDDFDQVIIDYLVSEFKKENGVDLSQDKMALQRLKDAAEKAKKDLSGVSQTQISLPFISAGENGPLHLEISLTRSKFEELADSLIKKTMEPTRQALKDAGLSTSEIDEVILVGGSTRIPAVQEAVKKEIGKEPHKGVNPDEVVAMGAAIQAGVITGDVKDVVLLDVTPLSLGIEIMGGRMNTLIERNTTIPTSKSQVYSTAADNQPAVDIHVLQGERPMASDNKTLGRFQLTDIPPAPRGVPQIEVTFDIDKNGIVNVTAKDLGTNKEQNITIQSSSSLSDEEIDRMVKDAEENAEADKKRREEVDLRNEADSLVFQVEKTVKDLGENISDEDKKNAEEKKDALKTALEGEDIDDIKAKKEELEKVIQELSAKVYEQAQQAQQQAQEEQGSQDSTVEDADFKEVKDDEDKK |
| 6139 | sp|B3CNB5|DNAK\_WOLPP | MGRAIGIDLGTTNSCVAIMQGKDAKVIENKEGARTTPSIVAFTSSGERLIGAPAKRQATTNANNTFFATKRLIGRQYSDPEMKNLGVPYKVFAAKNGDAWVKTTDGKEYSPSQIGAFILQNLKEAAEAYLGEEVKDAVITVPAYFNDSQRQATKDAGKIAGLNVLRIINEPTAAALAYGLDKKHGHTIVVYDLGGGTFDVSVLEIGDGVFEVKATNGDTHLGGEDFDNAVVNYLLGEFKKSNGIDLKNDPMAMQRIKEAAEKAKVELSSAMETEVNLPFVTVDASGPKHLNIKLTRAKLESLVNDLIERTIIPCKKALEDAGLSASQIGEVVLVGGMTRMPKVIEKVKEFFGKDPHRGVNPDEVVAIGAAIQAGIIQGDVRDVLLLDVTPLSLGIETLGGVFTPLIERNTTIPTKKSQVFSTAEDNQTAVTIKVHQGERKLAIDNKLLGQFSLEGIPPAPRGVPQIEVTFDIDANGIAHVSAKDKATGKEQKIRIQSSGGLSEDEINRMVREAEEKAQEDEKRKKFIEVKNQADSLVHSTEKSLTEYGDKISPEDKSAIENAVNELKEVSKSDNIDDADSIQQKVTNLSQLSMKLGEAMYKESQQQQGGESSSTTNNEEEKVVDSDYQDMDNKEENK |
| 6140 | sp|Q9XJ56|ECP44\_DAUCA | MASDDSVPQHSVEKTTEYESSDRGLFDFMKKEEKDETKVIATEFEEKVQVSEPEPKYEDCKVVEEEEEKAAKPSLLEKLHRSGSSSSSSSSDEEVEEGGEKKKKKEKKGLKEKIEEKIHHKEEDTSVPVEVVTEPEKKKGFMEKIKEKLPGGGKKVEEETVAPPPPPAAAPVDCAVEGDPAKKGILEKIKEKIPGYHPKTSTEEEKKDNDCASAKLIIRCLDRMFDYYYYASFSCGVGLILCFDPLLWGPLISFGTSG |
| 6141 | sp|Q5NVP3|F107A\_PONAB | MYSEIQRERADIGGLMARPEYREWNPELIKPKKLLNPVKASRSHQELHRELLMNHRRGLGVDSKPELQRVLEHRRRNQLIKKKKEELEAKRLQCPFEQELLRRQQRLNQLEKPPEKEEDHAPEFIKVRENLRRIATLTSEERVL |

Table ‎11‑B: Negative Data-Set

|  |  |  |
| --- | --- | --- |
| 1 | sp|Q9AT76|AGL27\_ARATH | MGRRKIEIKRIENKSSRQVTFSKRRNGLIDKARQLSILCESSVAVVVVSASGKLYDSSSGDDISKIIDRYEIQHADELRALDLEEKIQNYLPHKELLETVQSKLEEPNVDNVSVDSLISLEEQLETALSVSRARKAELMMEYIESLKEKEKLLREENQVLASQMGKNTLLATDDERGMFPGSSSGNKIPETLPLLN |
| 2 | sp|O80452|AMPD\_ARATH | MEPNIYQLALAALFGASFVAVSGFFMHFKALNLVLERGKERKENPDGDEPQNPTLVRRRSQVRRKVNDQYGRSPASLPDATPFTDGGGGGGGDTGRSNGHVYVDEIPPGLPRLHTPSEGRASVHGASSIRKTGSFVRPISPKSPVASASAFESVEESDDDDNLTNSEGLDASYLQANGDNEMPADANEEQISMAASSMIRSHSVSGDLHGVQPDPIAADILRKEPEQETFVRLNVPLEVPTSDEVEAYKCLQECLELRKRYVFQETVAPWEKEVISDPSTPKPNTEPFAHYPQGKSDHCFEMQDGVVHVFANKDAKEDLFPVADATAFFTDLHHVLKVIAAGNIRTLCHRRLVLLEQKFNLHLMLNADKEFLAQKSAPHRDFYNVRKVDTHVHHSACMNQKHLLRFIKSKLRKEPDEVVIFRDGTYLTLREVFESLDLTGYDLNVDLLDVHADKSTFHRFDKFNLKYNPCGQSRLREIFLKQDNLIQGRFLGEITKQVFSDLEASKYQMAEYRISIYGRKMSEWDQLASWIVNNDLYSENVVWLIQLPRLYNIYKDMGIVTSFQNILDNIFIPLFEATVDPDSHPQLHVFLKQVVGFDLVDDESKPERRPTKHMPTPAQWTNAFNPAFSYYVYYCYANLYVLNKLRESKGMTTITLRPHSGEAGDIDHLAATFLTCHSIAHGINLRKSPVLQYLYYLAQIGLAMSPLSNNSLFLDYHRNPFPVFFLRGLNVSLSTDDPLQIHLTKEPLVEEYSIAASVWKLSACDLCEIARNSVYQSGFSHALKSHWIGKDYYKRGPDGNDIHKTNVPHIRVEFRDTIWKEEMQQVYLGKAVISDEVVP |
| 3 | sp|Q7TN79|AKA7G\_MOUSE | MPFAAVDIQDDCGSPDVPQANPKRSKEEEEDRGDKNDHVKKRKKAKKDYQPNYFLSIPITNKKITTGIKVLQNSILQQDKRLTKAMVGDGSFHITLLVMQLLNEDEVNIGTDALLELKPFVEEILEGKHLALPFQGIGTFQGQVGFVKLADGDHVSALLEIAETAKRTFREKGILAGESRTFKPHLTFMKLSKAPMLRKKGVRKIEPGLYEQFIDHRFGEELLYQIDLCSMLKKKQSNGYYHCESSIVIGEKDRREPEDAELVRLSKRLVENAVLKAVQQYLEETQNKKQPGEGNSTKAEEGDRNGDGSDNNRK |
| 4 | sp|Q8CJG1|AGO1\_MOUSE | MEAGPSGAAAGAYLPPLQQVFQAPRRPGIGTVGKPIKLLANYFEVDIPKIDVYHYEVDIKPDKCPRRVNREVVEYMVQHFKPQIFGDRKPVYDGKKNIYTVTALPIGNERVDFEVTIPGEGKDRIFKVSIKWLAIVSWRMLHEALVSGQIPVPLESVQALDVAMRHLASMRYTPVGRSFFSPPEGYYHPLGGGREVWFGFHQSVRPAMWKMMLNIDVSATAFYKAQPVIEFMCEVLDIRNIDEQPKPLTDSQRVRFTKEIKGLKVEVTHCGQMKRKYRVCNVTRRPASHQTFPLQLESGQTVECTVAQYFKQKYNLQLKYPHLPCLQVGQEQKHTYLPLEVCNIVAGQRCIKKLTDNQTSTMIKATARSAPDRQEEISRLMKNASYNLDPYIQEFGIKVKDDMTEVTGRVLPAPILQYGGRNRAIATPNQGVWDMRGKQFYNGIEIKVWAIACFAPQKQCREEVLKNFTDQLRKISKDAGMPIQGQPCFCKYAQGADSVEPMFRHLKNTYSGLQLIIVILPGKTPVYAEVKRVGDTLLGMATQCVQVKNVVKTSPQTLSNLCLKINVKLGGINNILVPHQRSAVFQQPVIFLGADVTHPPAGDGKKPSITAVVGSMDAHPSRYCATVRVQRPRQEIIEDLSYMVRELLIQFYKSTRFKPTRIIFYRDGVPEGQLPQILHYELLAIRDACIKLEKDYQPGITYIVVQKRHHTRLFCADKNERIGKSGNIPAGTTVDTNITHPFEFDFYLCSHAGIQGTSRPSHYYVLWDDNRFTADELQILTYQLCHTYVRCTRSVSIPAPAYYARLVAFRARYHLVDKEHDSGEGSHISGQSNGRDPQALAKAVQVHQDTLRTMYFA |
| 5 | sp|Q10741|ADA10\_BOVIN | MVLLRVLILLLSWVAGLGGQYGNPLNKYIRHYEGLSYDVDSLHQKHQRAKRAVSHEDQFLRLDFHAHGRHFNLRMKRDTSLFSEEFRVETSNAVLDYDTSHIYTGHIYGEEGSFSHGSVIDGRFEGFIQTHGGTFYVEPAERYIKDRTLPFHSVIYHEDDIKYPHKYGPQGGCADHSVFERMRKYQMTGVEEVTQTPQEKHAINGPELLRKKRTTVAEKNTCQLYIQTDHLFFKYYGTREAVIAQISSHVKAIDTIYQTTDFSGIRNISFMVKRIRINTTADEKDPTNPFRFPNIGVEKFLELNSEQNHDDYCLAYVFTDRDFDDGVLGLAWVGAPSGSSGGICEKSKLYSDGKKKSLNTGIITVQNYGSHVPPKVSHITFAHEVGHNFGSPHDSGTECTPGESKNLGQKENGNYIMYARATSGDKLNNNKFSLCSIRNISQVLEKKRNNCFVESGQPICGNGMVEQGEECDCGYSDQCKDECCYDANQPEGKKCKLKPGKQCSPSQGPCCTAHCAFKSKTEKCRDDSDCAKEGICNGITALCPASDPKPNFTDCNRHTQVCINGQCAGSICEKHGLEECTCASSDGKDDKELCHVCCMKKMEPSTCASTGSVQWNKYFLGRTITLQPGSPCNDFRGYCDVFMRCRLVDADGPLARLKKAIFSPELYENIAEWIVAYWWAVLLMGIALIMLMAGFIKICSVHTPSSNPKLPPPKPLPGTLKRRRPPQPIQQPQRQRPRESYQMGHMRR |
| 6 | sp|Q9QYV0|ADA15\_RAT | MRLALLWALGLLGAGSPRPSPPLPNIGGTEEEQQASPERTQSRSLENQVVQDSPPINLTEVLQTGLPETLRIGLELDGENHILELQQNRDLVPGRPTLVWYQPDGTRMVSEGHSLENCCYRGRVQGRPSSWVSLCACSGIRGLVVLSPERSYTLELGPGDLQRPLIVSRIQDLLLPGHTCAPSWHAFVPTEAAPDLLLEQHHLRRLKRDVVTETKIVELVIVADNSEVRKYPDFQQLLNRTLEVALLLDTFFQPLNVRVALVGLEAWTQRDLIEMSSNPAVLLDNFLRWRRTDLLPRLPHDSAQLVTVTSFSGPMVGMAIQNSICSPDFSGGVNMDHSTSILGVASSIAHELGHSLGLDHDSPGNSCPCPGPAPAKSCIMEASTDFLPGLNFSNCSRWALEKALLDGMGSCLFEWPPSRAPMSSLCGNMFVDPGEQCDCGFPDECTDPCCDYFTCQLRPGAQCASDGPCCQNCKLQPAGWQCRLPTDDCDLPEFCLGDSSQCPPDIRLGDGEPCASGEAVCMHGRCASYTRQCQSLWGPGAQPAAPLCLQTANTRGNAFGSCGRSPSGSYMPCNLRDAICGQLQCQWGRNQPLLGSVQDQLSEVLEANGTQLNCSWVDLDLGNDVAQPLLALPGTACGPGLVCIGHRCQPVDLLGAQECRSKCHGHGVCDSSRHCHCDEGWAPPDCMTQLRATSSLTTGLLLSLLLLLVLVLLGASYWYRARLHQRLCQLKGSSCQYRAAQSGPPERPGPPQRAQQMPGTKQANVSFPVPPSRPLPPNPVPKKLQAELADRSNPPTRPLPADPVVWRPKPQGPTKPPPPRKPLPANPQGRPPLGDLPGPGDGSLQLVVPSRPAPPPPAASSLYL |
| 7 | sp|P23477|ADDB\_BACSU | MGAEFLVGRSGSGKTKLIINSIQDELRRAPFGKPIIFLVPDQMTFLMEYELAKTPDMGGMIRAQVFSFSRLAWRVLQHTGGMSRPFLTSTGVQMLLRKLIEEHKQEFKVYQKASDKSGFTAQVERMLTEFKRYCLEPEDIRRMAESGTASEYRGERVLSEKLHDLSILYQQMEKSLADQYLHSEDYLTLLAEHIPLAEDIKGAHIYVDGFYQFTPQEFRVLEQLMVHAEHITFSLTADKPSYEREPHELELFRMTGKTYYRLHQKAKELNLDITYKELSGTERHTKTPELAHLEAQYEARPAIPYAEKQEALTVMQAANRRAELEGIAREIHALVREKGYRYKDVAILARQPEDYKDMVKEVFADYEIPYFIDGKASMLNHPLIEFIRSSLDVLKGNWRYEAVFRCVKTELLFPLNEPKAKVREQVDQLENYCIAYGIKGDRWTKGDRFQYRRFVSLDDDFAQTDQEIEMENMLNDTRDWIVPPLFQLQKRMKKAKTVQEKAEALYRYLEETDVPLKLDQERQRAEDDGRIIEAQQHQQAWDAVIQLLEEFVEMMGDDEISLDLFQQMIEAGAESLTFSLIPPALDQVFVGNMDLSRMYGTSCTFVLGANDGVLPARPDENGVLSDDDREWLKTIGVELSSGGRERLLDEHFLIYMAFSSPSDRLYVSYPIADAEGKTLLPSMIVKRLEELFPHHKERLLTNEPEQVSDEEQLMYVVNKSVAQSFTASQLRLWTREYDISDVWWSTYNVLMSEQDRLQSKKLFSSLFFRNEVKQLERSVSRQLYGERIQGSVSRMETFNACPFSHFASHGLHLKERQFFKLEAPDIGQLFHSSLKLISDRLREQKLDWRDLTKEQCELFSYDAVERLAPKLQKEILLSSNRHYYVKEKLQKIVTRVSGILSEHAKASGFVPIGLELGFGGKGPLPPLTFQLKNGCTMELVGRIDRVDKAESSKGLLLRIVDYKSSDKGLDLAEVYYGLALQMLTYLDLSITHSADWLGMRATPAGVLYFHIHDPMIQSNLPLGLDEIEQEIFKKFKMKGLLLGDQEVVRLMDTTLQEGRSNIINAGLKKDGSLRSDSAAVGEKEFDLLTKHVRRTFQEAGEQITDGRVSIEPYKMKNKTPCTYCAFKSVCQFDESLEENEYRPLKAEKDKTILEWIKKEADGNEHS |
| 8 | sp|Q9SXL4|AHK1\_ARATH | MRGDSFSMSIENLPDSPMGSRKKKMQIRKVFDKMTEWVTPWRSNLESPREMMILRGDVEQDEFQYASSHCLSSYYSVFVVRLAIMVMLAILIGLLTVLTWHFTRIYTKQSLQTLAYGLRYELLQRPVLRMWSVLNTTSELTTAQVKLSEYVIKKYDKPTTQEELVEMYQAMKDVTWALFASAKALNAITINYRNGFVQAFHRDPASSSTFYIFSDLKNYSISGTGPEDVSGWNNKSIHGNMSAIWYQQQLDPVTGENLGKPLKIPPDDLINIAGISQVPDGEASWHVTVSKYMDSPLLSAALPVFDASNKSIVAVVGVTTALYSVGQLMRDLVEVHGGHIYLTSQEGYLLATSTDGPLLKNTSNGPQLMKATDSEEWVIKSGAQWLEKTYGSKRPHVVHAENVKLGDQRYYIDSFYLNLKRLPIVGVVIIPRKFIMGKVDERAFKTLIILISASVCIFFIGCVCILILTNGVSKEMKLRAELIRQLDARRRAEASSNYKSQFLANMSHELRTPMAAVIGLLDILISDDCLSNEQYATVTQIRKCSTALLRLLNNILDLSKVESGKLVLEEAEFDLGRELEGLVDMFSVQCINHNVETVLDLSDDMPALVRGDSARLVQIFANLISNSIKFTTTGHIILRGWCENINSLHDEMSVSVDRRKPWAPMKTKQVQHRNHLQKSCKNANKMVLWFEVDDTGCGIDPSKWDSVFESFEQADPSTTRTHGGTGLGLCIVRNLVNKMGGEIKVVQKNGLGTLMRLYLILSTPDTVDQNIQPDFSKYGLVVMLSMYGSTARMITSKWLRKHGIATVEASDWNELTQIIRDLLETGSRDNSFDSQHNISDPLRAELSNIVEIKNPVFVIVVDIGVLDLTTNIWKEQLNYLDRFSNKAKFAWLLKHDTSNTVKTELRRKGHVMMVNKPLYKAKMIQILEAVIKNRKRGLCNDLRNRGNGSDESHDCLEIDPTQFDTCSSDDSSETSGEKQVDKSVKPSTLHSPVLKNYLIDATTSNDDSTSASMTQKNPEEEDWKDRLYSGIALDGKNQKSLEGIRILLAEDTPVLQRVATIMLEKMGATVTAVWDGQQAVDSLNYKSINAQAPTEEHKSFEEETANKVTTRETSLRNSSPYDLILMDCQMPKMDGYEATKAIRRAEIGTELHIPIVALTAHAMSSDEAKCLEVGMDAYLTKPIDRKLMVSTILSLTKPSAFQTSLSA |
| 9 | sp|Q9H553|ALG2\_HUMAN | MAEEQGRERDSVPKPSVLFLHPDLGVGGAERLVLDAALALQARGCSVKIWTAHYDPGHCFAESRELPVRCAGDWLPRGLGWGGRGAAVCAYVRMVFLALYVLFLADEEFDVVVCDQVSACIPVFRLARRRKKILFYCHFPDLLLTKRDSFLKRLYRAPIDWIEEYTTGMADCILVNSQFTAAVFKETFKSLSHIDPDVLYPSLNVTSFDSVVPEKLDDLVPKGKKFLLLSINRYERKKNLTLALEALVQLRGRLTSQDWERVHLIVAGGYDERVLENVEHYQELKKMVQQSDLGQYVTFLRSFSDKQKISLLHSCTCVLYTPSNEHFGIVPLEAMYMQCPVIAVNSGGPLESIDHSVTGFLCEPDPVHFSEAIEKFIREPSLKATMGLAGRARVKEKFSPEAFTEQLYRYVTKLLV |
| 10 | sp|P09230|AEP\_YARLI | MKLATAFTILTAVLAAPLAAPAPAPDAAPAAVPEGPAAAAYSSILSVVAKQSKKFKHHKRDLDEKDQFIVVFDSSATVDQIASEIQKLDSLVDEDSSNGITSALDLPVYTDGSGFLGFVGKFNSTIVDKLKESSVLTVEPDTIVSLPEIPASSNAKRAIQTTPVTQWGLSRISHKKAQTGNYAYVRETVGKHPTVSYVVDSGIRTTHSEFGGRAVWGANFADTQNADLLGHGTHVAGTVGGKTYGVDANTKLVAVKVFAGRSAALSVINQGFTWALNDYISKRDTLPRGVLNFSGGGPKSASQDALWSRATQEGLLVAIAAGNDAVDACNDSPGNIGGSTSGIITVGSIDSSDKISVWSGGQGSNYGTCVDVFAPGSDIISASYQSDSGTLVYSGTSMACPHVAGLASYYLSINDEVLTPAQVEALITESNTGVLPTTNLKGSPNAVAYNGVGI |
| 11 | sp|Q13023|AKAP6\_HUMAN | MLTMSVTLSPLRSQDLDPMATDASPMAINMTPTVEQGEGEEAMKDMDSDQQYEKPPPLHTGADWKIVLHLPEIETWLRMTSERVRDLTYSVQQDSDSKHVDVHLVQLKDICEDISDHVEQIHALLETEFSLKLLSYSVNVIVDIHAVQLLWHQLRVSVLVLRERILQGLQDANGNYTRQTDILQAFSEETKEGRLDSLTEVDDSGQLTIKCSQNYLSLDCGITAFELSDYSPSEDLLSGLGDMTSSQVKTKPFDSWSYSEMEKEFPELIRSVGLLTVAADSISTNGSEAVTEEVSQVSLSVDDKGGCEEDNASAVEEQPGLTLGVSSSSGEALTNAAQPSSETVQQESSSSSHHDAKNQQPVPCENATPKRTIRDCFNYNEDSPTQPTLPKRGLFLKEETFKNDLKGNGGKRQMVDLKPEMSRSTPSLVDPPDRSKLCLVLQSSYPNSPSAASQSYECLHKVGNGNLENTVKFHIKEISSSLGRLNDCYKEKSRLKKPHKTSEEVPPCRTPKRGTGSGKQAKNTKSSAVPNGELSYTSKAIEGPQTNSASTSSLEPCNQRSWNAKLQLQSETSSSPAFTQSSESSVGSDNIMSPVPLLSKHKSKKGQASSPSHVTRNGEVVEAWYGSDEYLALPSHLKQTEVLALKLENLTKLLPQKPRGETIQNIDDWELSEMNSDSEIYPTYHVKKKHTRLGRVSPSSSSDIASSLGESIESGPLSDILSDEESSMPLAGMKKYADEKSERASSSEKNESHSATKSALIQKLMQDIQHQDNYEAIWEKIEGFVNKLDEFIQWLNEAMETTENWTPPKAEMDDLKLYLETHLSFKLNVDSHCALKEAVEEEGHQLLELIASHKAGLKDMLRMIASQWKELQRQIKRQHSWILRALDTIKAEILATDVSVEDEEGTGSPKAEVQLCYLEAQRDAVEQMSLKLYSEQYTSSSKRKEEFADMSKVHSVGSNGLLDFDSEYQELWDWLIDMESLVMDSHDLMMSEEQQQHLYKRYSVEMSIRHLKKTELLSKVEALKKGGVLLPNDLLEKVDSINEKWELLGKTLGEKIQDTMAGHSGSSPRDLLSPESGSLVRQLEVRIKELKGWLRDTELFIFNSCLRQEKEGTMNTEKQLQYFKSLCREIKQRRRGVASILRLCQHLLDDRETCNLNADHQPMQLIIVNLERRWEAIVMQAVQWQTRLQKKMGKESETLNVIDPGLMDLNGMSEDALEWDEMDISNKLISLNEESNDLDQELQPVIPSLKLGETSNEDPGYDEEADNHGGSQYASNITAPSSPHIYQVYSLHNVELYEDNHMPFLKNNPKVTGMTQPNVLTKSLSKDSSFSSTKSLPDLLGGSNLVKPCACHGGDMSQNSGSESGIVSEGDTETTTNSEMCLLNAVDGSPSNLETEHLDPQMGDAVNVLKQKFTDEGESIKLPNSSQSSISPVGCVNGKVGDLNSITKHTPDCLGEELQGKHDVFTFYDYSYLQGSKLKLPMIMKQSQSEKAHVEDPLLRGFYFDKKSCKSKHQTTELQPDVPPHERILASASHEMDRISYKSGNIEKTFTGMQNAKQLSLLSHSSSIESLSPGGDLFGLGIFKNGSDSLQRSTSLESWLTSYKSNEDLFSCHSSGDISVSSGSVGELSKRTLDLLNRLENIQSPSEQKIKRSVSDITLQSSSQKMSFTGQMSLDIASSINEDSAASLTELSSSDELSLCSEDIVLHKNKIPESNASFRKRLTRSVADESDVNVSMIVNVSCTSACTDDEDDSDLLSSSTLTLTEEELCIKDEDDDSSIATDDEIYEDCTLMSGLDYIKNELQTWIRPKLSLTRDKKRCNVSDEMKGSKDISSSEMTNPSDTLNIETLLNGSVKRVSENNGNGKNSSHTHELGTKRENKKTIFKVNKDPYVADMENGNIEGIPERQKGKPNVTSKVSENLGSHGKEISESEHCKCKALMDSLDDSNTAGKEFVSQDVRHLPKKCPNHHHFENQSTASTPTEKSFSELALETRFNNRQDSDALKSSDDAPSMAGKSAGCCLALEQNGTEENASISNISCCNCEPDVFHQKDAEDCSVHNFVKEIIDMASTALKSKSQPENEVAAPTSLTQIKEKVLEHSHRPIQLRKGDFYSYLSLSSHDSDCGEVTNYIEEKSSTPLPLDTTDSGLDDKEDIECFFEACVEGDSDGEEPCFSSAPPNESAVPSEAAMPLQATACSSEFSDSSLSADDADTVALSSPSSQERAEVGKEVNGLPQTSSGCAENLEFTPSKLDSEKESSGKPGESGMPEEHNAASAKSKVQDLSLKANQPTDKAALHPSPKTLTCEENLLNLHEKRHRNMHR |
| 12 | sp|P53909|ADE\_YEAST | MVSVEFLQELPKCEHHLHLEGTLEPDLLFPLAKRNDIILPEGFPKSVEELNEKYKKFRDLQDFLDYYYIGTNVLISEQDFFDLAWAYFKKVHKQGLVHAEVFYDPQSHTSRGISIETVTKGFQRACDKAFSEFGITSKLIMCLLRHIEPEECLKTIEEATPFIKDGTISALGLDSAEKPFPPHLFVECYGKAASLNKDLKLTAHAGEEGPAQFVSDALDLLQVTRIDHGINSQYDEELLDRLSRDQTMLTICPLSNVKLQVVQSVSELPLQKFLDRDVPFSLNSDDPAYFGGYILDVYTQVSKDFPHWDHETWGRIAKNAIKGSWCDDKRKNGLLSRVDEVVTKYSH |
| 13 | sp|P9WJW3|ALKA\_MYCTU | MHDDFERCYRAIQSKDARFDGWFVVAVLTTGVYCRPSCPVRPPFARNVRFLPTAAAAQGEGFRACKRCRPDASPGSPEWNVRSDVVARAMRLIADGTVDRDGVSGLAAQLGYTIRQLERLLQAVVGAGPLALARAQRMQTARVLIETTNLPFGDVAFAAGFSSIRQFNDTVRLACDGTPTALRARAAARFESATASAGTVSLRLPVRAPFAFEGVFGHLAATAVPGCEEVRDGAYRRTLRLPWGNGIVSLTPAPDHVRCLLVLDDFRDLMTATARCRRLLDLDADPEAIVEALGADPDLRAVVGKAPGQRIPRTVDEAEFAVRAVLAQQVSTKAASTHAGRLVAAYGRPVHDRHGALTHTFPSIEQLAEIDPGHLAVPKARQRTINALVASLADKSLVLDAGCDWQRARGQLLALPGVGPWTAEVIAMRGLGDPDAFPASDLGLRLAAKKLGLPAQRRALTVHSARWRPWRSYATQHLWTTLEHPVNQWPPQEKIA |
| 14 | sp|Q8WTP8|AEN\_HUMAN | MVPREAPESAQCLCPSLTIPNAKDVLRKRHKRRSRQHQRFMARKALLQEQGLLSMPPEPGSSPLPTPFGAATATEAASSGKQCLRAGSGSAPCSRRPAPGKASGPLPSKCVAIDCEMVGTGPRGRVSELARCSIVSYHGNVLYDKYIRPEMPIADYRTRWSGITRQHMRKAVPFQVAQKEILKLLKGKVVVGHALHNDFQALKYVHPRSQTRDTTYVPNFLSEPGLHTRARVSLKDLALQLLHKKIQVGQHGHSSVEDATTAMELYRLVEVQWEQQEARSLWTCPEDREPDSSTDMEQYMEDQYWPDDLAHGSRGGAREAQDRRN |
| 15 | sp|O97831|AGRL1\_BOVIN | MARLAAVLWSLCVTAILVTSATQGLSRAGLPFGLMRRELACEGYPIELRCPGSDVIMVENANYGRTDDKICDADPFQMENVQCYLPDAFKIMSQRCNNRTQCVVVAGSDAFPDPCPGTYKYLEVQYDCVPYKVKQKVFVCPGTLQKVLEPTSTHESEHQSGAWCKDPLQAGDRIYVMPWIPYRTDTLTEYASWEDYVAARHTTTYRLPNRVDGTGFVVYDGAVFYNKERTRNIVKYDLRTRIKSGETVINTANYHDTSPYRWGGKTDIDLAVDENGLWVIYATEGNNGRLVVSQLNPYTLRFEGTWETGYDKRSASNAFMVCGVLYVLRSVYVDDDSEAAGNRVDYAFNTNANREEPVSLAFPNPYQFVSSVDYNPRDNQLYVWNNYFVVRYSLEFGPPDPSAGPATSPPLSTTTTARPTPLTSTASPAATTPLRRAPLTTHPVGAINQLGPDLPPATAPAPSTRRPPAPNLHVSPELFCEPREVRRVQWPATQQGMLVERPCPKGTRGIASFQCLPALGLWNPRGPDLSNCTSPWVNQVAQKIKSGENAANIASELARHTRGSIYAGDVSSSVKLMEQLLDILDAQLQALRPIERESAGKNYNKMHKRERTCKDYIKAVVETVDNLLRPEALESWKDMNATEQAHTATMLLDVLEEGAFLLADNVREPARFLAAKQNVVLEVTVLNTEGQVQELVFPQEYPSENSIQLSANTIKQNSRNGVVKVVFILYNNLGLFLSTENATVKLAGEAGSGGPGGASLVVNSQVIAASINKESSRVFLMDPVIFTVAHLEAKNHFNANCSFWNYSERSMLGYWSTQGCRLVESNKTHTTCACSHLTNFAVLMAHREIYQGRINELLLSVITWVGIVISLVCLAICISTFCFLRGLQTDRNTIHKNLCINLFLAELLFLVGIDKTQYEIACPIFAGLLHYFFLAAFSWLCLEGVHLYLLLVEVFESEYSRTKYYYLGGYCFPALVVGIAAAIDYRSYGTEKACWLRVDNYFIWSFIGPVSFVIVVNLVFLMVTLHKMVRSSSVLKPDSSRLDNIKSWALGAIALLFLLGLTWAFGLLFINKESVVMAYLFTTFNAFQGVFIFVFHCALQKKVHKEYSKCLRHSYCCIRSPPGGAHGSLKTSAMRSNARYYTGTQSRIRRMWNDTVRKQTESSFMAGDINSTPTLNRGTMGNHLLTNPVLQPRGGTSPYNTLIAESVGFNPSSPPVFNSPGSYREPKHPLGGREACGMDTLPLNGNFNNSYSLRSGDFPPGDGAPEPPRGRNLADAAAFEKMIISELVHNNLRGGSSGAKGPPPPEPPVPPVPGGSGEEEAGGPGADRAEIELLYKALEEPLLLPRAQSVLYQSDLDESESCTAEDGATSRPLSSPPGRDSLYASGANLRDSPSYPDSSPEGPSEALPPPPPAPPGPPEIYYTSRPPALVARNPLQGYYQVRRPSHEGYLAAPGLEGPGPDGDGQMQLVTSL |
| 16 | sp|Q9NP61|ARFG3\_HUMAN | MGDPSKQDILTIFKRLRSVPTNKVCFDCGAKNPSWASITYGVFLCIDCSGSHRSLGVHLSFIRSTELDSNWSWFQLRCMQVGGNASASSFFHQHGCSTNDTNAKYNSRAAQLYREKIKSLASQATRKHGTDLWLDSCVVPPLSPPPKEEDFFASHVSPEVSDTAWASAIAEPSSLTSRPVETTLENNEGGQEQGPSVEGLNVPTKATLEVSSIIKKKPNQAKKGLGAKKGSLGAQKLANTCFNEIEKQAQAADKMKEQEDLAKVVSKEESIVSSLRLAYKDLEIQMKKDEKMNISGKKNVDSDRLGMGFGNCRSVISHSVTSDMQTIEQESPIMAKPRKKYNDDSDDSYFTSSSSYFDEPVELRSSSFSSWDDSSDSYWKKETSKDTETVLKTTGYSDRPTARRKPDYEPVENTDEAQKKFGNVKAISSDMYFGRQSQADYETRARLERLSASSSISSADLFEEPRKQPAGNYSLSSVLPNAPDMAQFKQGVRSVAGKLSVFANGVVTSIQDRYGS |
| 17 | sp|F4JSH1|APY7\_ARATH | MVFGRITELFTAASSRLPAGSQSSVPYMPTGSSPDVGTSVSDSISIGNGGRKNCLRHSASLQDFSSYHGFDPEESILPREAISWGQNGSSFSKEKGSVPNGTNPSTRRKLIRAVMIVMCLFLFAFLVYIVSMYIYTNWSRGASRYYVVFDCGSTGTRAYVYQASINYKKDSSLPIVMKSLTEGISRKSRGRAYDRMETEPGFDKLVNNRTGLKTAIKPLIQWAEKQIPKNAHRTTSLFVYATAGVRRLRPADSSWILGNVWSILAKSPFTCRREWVKIISGTEEAYFGWTALNYQTSMLGALPKKATFGALDLGGSSLQVTFENEERTHNETNLNLRIGSVNHHLSAYSLAGYGLNDAFDRSVVHLLKKLPNVNKSDLIEGKLEMKHPCLNSGYNGQYICSQCASSVQGGKKGKSGVSIKLVGAPNWGECSALAKNAVNSSEWSNAKHGVDCDLQPCALPDGYPRPHGQFYAVSGFFVVYRFFNLSAEASLDDVLEKGREFCDKAWQVARTSVSPQPFIEQYCFRAPYIVSLLREGLYITDKQIIIGSGSITWTLGVALLESGKALSSTLGLKSYETLSMKINPIALISILILSLLLLLCALSRVSNCLPRFFRKSYLPLFRHNSTSASSVLNIPSPFRFQRWSPMSTGVKTPLSPTVRGSPRRPFSFGSSIQLMESSLYSSSSCVMHSCSSDSLGDIQYDSTGSFWSSPRRSQMRLQSRRSQSREDLSSSLADSHMLKM |
| 18 | sp|P36404|ARL2\_HUMAN | MGLLTILKKMKQKERELRLLMLGLDNAGKTTILKKFNGEDIDTISPTLGFNIKTLEHRGFKLNIWDVGGQKSLRSYWRNYFESTDGLIWVVDSADRQRMQDCQRELQSLLVEERLAGATLLIFANKQDLPGALSSNAIREVLELDSIRSHHWCIQGCSAVTGENLLPGIDWLLDDISSRIFTAD |
| 19 | sp|P35374|AGTR2\_MOUSE | MKDNFSFAATSRNITSSRPFDNLNATGTNESAFNCSHKPSDKHLEAIPVLYYMIFVIGFAVNIVVVSLFCCQKGPKKVSSIYIFNLALADLLLLATLPLWATYYSYRYDWLFGPVMCKVFGSFLTLNMFASIFFITCMSVDRYQSVIYPFLSQRRNPWQASYVVPLVWCMACLSSLPTFYFRDVRTIEYLGVNACIMAFPPEKYAQWSAGIALMKNILGFIIPLIFIATCYFGIRKHLLKTNSYGKNRITRDQVLKMAAAVVLAFIICWLPFHVLTFLDALTWMGIINSCEVIAVIDLALPFAILLGFTNSCVNPFLYCFVGNRFQQKLRSVFRVPITWLQGKRETMSCRKGSSLREMDTFVS |
| 20 | sp|Q9NQ90|ANO2\_HUMAN | MATPGPRDIPLLPGSPRRLSPQAGSRGGQGPKHGQQCLKMPGPRAPGLQGGSNRDPGQPCGGESTRSSSVINNYLDANEPVSLEARLSRMHFHDSQRKVDYVLAYHYRKRGVHLAQGFPGHSLAIVSNGETGKEPHAGGPGDIELGPLDALEEERKEQREEFEHNLMEAGLELEKDLENKSQGSIFVRIHAPWQVLAREAEFLKIKVPTKKEMYEIKAGGSIAKKFSAALQKLSSHLQPRVPEHSNNKMKNLSYPFSREKMYLYNIQEKDTFFDNATRSRIVHEILKRTACSRANNTMGINSLIANNIYEAAYPLHDGEYDSPEDDMNDRKLLYQEWARYGVFYKFQPIDLIRKYFGEKIGLYFAWLGLYTSFLIPSSVIGVIVFLYGCATIEEDIPSREMCDQQNAFTMCPLCDKSCDYWNLSSACGTAQASHLFDNPATVFFSIFMALWATMFLENWKRLQMRLGYFWDLTGIEEEEERAQEHSRPEYETKVREKMLKESNQSAVQKLETNTTECGDEDDEDKLTWKDRFPGYLMNFASILFMIALTFSIVFGVIVYRITTAAALSLNKATRSNVRVTVTATAVIINLVVILILDEIYGAVAKWLTKIEVPKTEQTFEERLILKAFLLKFVNAYSPIFYVAFFKGRFVGRPGSYVYVFDGYRMEECAPGGCLMELCIQLSIIMLGKQLIQNNIFEIGVPKLKKLFRKLKDETEAGETDSAHSKHPEQWDLDYSLEPYTGLTPEYMEMIIQFGFVTLFVASFPLAPVFALLNNVIEVRLDAKKFVTELRRPDAVRTKDIGIWFDILSGIGKFSVISNAFVIAITSDFIPRLVYQYSYSHNGTLHGFVNHTLSFFNVSQLKEGTQPENSQFDQEVQFCRFKDYREPPWAPNPYEFSKQYWFILSARLAFVIIFQNLVMFLSVLVDWMIPDIPTDISDQIKKEKSLLVDFFLKEEHEKLKLMDEPALRSPGGGDRSRSRAASSAPSGQSQLGSMMSSGSQHTNV |
| 21 | sp|P15823|ADA1B\_RAT | MNPDLDTGHNTSAPAHWGELKDDNFTGPNQTSSNSTLPQLDVTRAISVGLVLGAFILFAIVGNILVILSVACNRHLRTPTNYFIVNLAIADLLLSFTVLPFSATLEVLGYWVLGRIFCDIWAAVDVLCCTASILSLCAISIDRYIGVRYSLQYPTLVTRRKAILALLSVWVLSTVISIGPLLGWKEPAPNDDKECGVTEEPFYALFSSLGSFYIPLAVILVMYCRVYIVAKRTTKNLEAGVMKEMSNSKELTLRIHSKNFHEDTLSSTKAKGHNPRSSIAVKLFKFSREKKAAKTLGIVVGMFILCWLPFFIALPLGSLFSTLKPPDAVFKVVFWLGYFNSCLNPIIYPCSSKEFKRAFMRILGCQCRGGRRRRRRRRLGACAYTYRPWTRGGSLERSQSRKDSLDDSGSCMSGTQRTLPSASPSPGYLGRGTQPPVELCAFPEWKPGALLSLPEPPGRRGRLDSGPLFTFKLLGDPESPGTEGDTSNGGCDTTTDLANGQPGFKSNMPLAPGHF |
| 22 | sp|P05770|APOE\_PAPAN | MKVLWAALLVTFLAGCQAKVEQPVEPETEPELRQQAEWQSGQPWELALGRFWDYLRWVQTLSEQVQEELLSPQVTQELTTLMDETMKELKAYKSELEEQLSPVAEETRARLSKELQAAQARLGADMEDVRSRLVQYRSEVQAMLGQSTEELRARLASHLRKLRKRLLRDADDLQKRLAVYQAGAREGAERGVSAIRERLGPLVEQGRVRAATVGSLASQPLQERAQALGERLRARMEEMGSRTRDRLDEVKEQVAEVRAKLEEQAQQISLQAEAFQARLKSWFEPLVEDMQRQWAGLVEKVQAAVGASTAPVPSDNH |
| 23 | sp|Q9CZK6|ANKS3\_MOUSE | MSELSDEASEPELLKRSLSMWHGLGAQGSPEELDVPLDLHTAASIGQHEVVKECVQRGELDLNKKNGGGWTALMYASYIGHDTIVHLLLEAGVSVNVPTPEGQTPLMLASSCGNESIAYFLLQQGAELEMKDIHGWTALFHCTSAGHQQMVKFLLESGANANVREPVYGYTPLMEAAASGHEIIVQYFLNHGVKVDTRDHSGATACMLARQFGHMKIVALMETHSPVLPKSLYRSPEKYEDLSSSDESWPVPQRQRPCRKKGLSIHEGPRALAKITAIGLGGKTQTTYEQVPPRGYVTFTSSDENTMESEGLCYRDVTSPINEQDVESSSSSSREEPTFCASLGPVWRSSSSDGLARAQGLSSEASIESNEDSDHARKSSVRKQTRSYLKNKSRHGNSDGHWPSSTGPASIPGSEPQTEKSPYSGPQDLATLLEQIGCLKYLQVFEEQDIDLRIFLTLTESDLKEIGITLFGPKRKMTSAIARWHSSARPPSDALELAYADRLETEMQELAIQLHKCCEEAEALRGQVSQEQELRAVVESCLLEQDSARKDIHAQLQEAQTLAQDAALVLDQLRACQAELSARLRQHHSPREGTPNPHFLSADSKGWPIPLQALSLPELSGALEDRVHEMGQALCSVTQSLEKLQMLNAKKWREP |
| 24 | sp|Q99873|ANM1\_HUMAN | MAAAEAANCIMENFVATLANGMSLQPPLEEVSCGQAESSEKPNAEDMTSKDYYFDSYAHFGIHEEMLKDEVRTLTYRNSMFHNRHLFKDKVVLDVGSGTGILCMFAAKAGARKVIGIECSSISDYAVKIVKANKLDHVVTIIKGKVEEVELPVEKVDIIISEWMGYCLFYESMLNTVLYARDKWLAPDGLIFPDRATLYVTAIEDRQYKDYKIHWWENVYGFDMSCIKDVAIKEPLVDVVDPKQLVTNACLIKEVDIYTVKVEDLTFTSPFCLQVKRNDYVHALVAYFNIEFTRCHKRTGFSTSPESPYTHWKQTVFYMEDYLTVKTGEEIFGTIGMRPNAKNNRDLDFTIDLDFKGQLCELSCSTDYRMR |
| 25 | sp|Q9XEE2|ANXD2\_ARATH | MASLKVPSNVPLPEDDAEQLHKAFSGWGTNEKLIISILAHRNAAQRSLIRSVYAATYNEDLLKALDKELSSDFERAVMLWTLDPPERDAYLAKESTKMFTKNNWVLVEIACTRPALELIKVKQAYQARYKKSIEEDVAQHTSGDLRKLLLPLVSTFRYEGDDVNMMLARSEAKILHEKVSEKSYSDDDFIRILTTRSKAQLGATLNHYNNEYGNAINKNLKEESDDNDYMKLLRAVITCLTYPEKHFEKVLRLSINKMGTDEWGLTRVVTTRTEVDMERIKEEYQRRNSIPLDRAIAKDTSGDYEDMLVALLGHGDA |
| 26 | sp|P15207|ANDR\_RAT | MEVQLGLGRVYPRPPSKTYRGAFQNLFQSVREAIQNPGPRHPEAASIAPPGACLQQRQETSPRRRRRQQHPEDGSPQAHIRGTTGYLALEEEQQPSQQQSASEGHPESGCLPEPGAATAPGKGLPQQPPAPPDQDDSAAPSTLSLLGPTFPGLSSCSADIKDILSEAGTMQLLQQQQQQQQQQQQQQQQQQQQQQEVISEGSSSVRAREATGAPSSSKDSYLGGNSTISDSAKELCKAVSVSMGLGVEALEHLSPGEQLRGDCMYASLLGGPPAVRPTPCAPLAECKGLSLDEGPGKGTEETAEYSSFKGGYAKGLEGESLGCSGSSEAGSSGTLEIPSSLSLYKSGAVDEAAAYQNRDYYNFPLALSGPPHPPPPTHPHARIKLENPSDYGSAWAAAAAQCRYGDLASLHGGSVAGPSTGSPPATASSSWHTLFTAEEGQLYGPGGGGGSSSPSDAGPVAPYGYTRPPQGLASQEGDFSASEVWYPGGVVNRVPYPSPSCVKSEMGPWMENYSGPYGDMRLDSTRDHVLPIDYYFPPQKTCLICGDEASGCHYGALTCGSCKVFFKRAAEGKQKYLCASRNDCTIDKFRRKNCPSCRLRKCYEAGMTLGARKLKKLGNLKLQEEGENSSAGSPTEDPSQKMTVSHIEGYECQPIFLNVLEAIEPGVVCAGHDNNQPDSFAALLSSLNELGERQLVHVVKWAKALPGFRNLHVDDQMAVIQYSWMGLMVFAMGWRSFTNVNSRMLYFAPDLVFNEYRMHKSRMYSQCVRMRHLSQEFGWLQITPQEFLCMKALLLFSIIPVDGLKNQKFFDELRMNYIKELDRIIACKRKNPTSCSRRFYQLTKLLDSVQPIARELHQFTFDLLIKSHMVSVDFPEMMAEIISVQVPKILSGKVKPIYFHTQ |
| 27 | sp|Q8VZ56|AMY1\_ARATH | MTSLHTLLFSSLLFFIVFPTFTFSSTLLFQSFNWESWKKEGGFYNSLHNSIDDIANAGITHLWLPPPSQSVAPEGYLPGKLYDLNSSKYGSEAELKSLIKALNQKGIKALADIVINHRTAERKDDKCGYCYFEGGTSDDRLDWDPSFVCRNDPKFPGTGNLDTGGDFDGAPDIDHLNPRVQKELSEWMNWLKTEIGFHGWRFDYVRGYASSITKLYVQNTSPDFAVGEKWDDMKYGGDGKLDYDQNEHRSGLKQWIEEAGGGVLTAFDFTTKGILQSAVKGELWRLKDSQGKPPGMIGIMPGNAVTFIDNHDTFRTWVFPSDKVLLGYVYILTHPGTPCIFYNHYIEWGLKESISKLVAIRNKNGIGSTSSVTIKAAEADLYLAMIDDKVIMKIGPKQDVGTLVPSNFALAYSGLDFAVWEKK |
| 28 | sp|Q8VD46|ASZ1\_MOUSE | MAAGTLRGLAVAGGGESSDSEDDGWDIGYLDRSSQKLKRSLPVEEKNETFKKALTTGDISLVKELLDSGINVDSSFRYGWTPLMYAASVANAELVRFLLDRGANASFDKDKLTILISACSARGSEEQVLKCVELLLSRNADPNTACRRLMTPIMYAARDGHTQVVALLVAHGAEVNAQDENGYTALTWAARQGHKNVILKLLELGANKMLQTKDGRTPSEIAKRNKHLEIFNFLSLTLNPLEGKLQQLTKEETICKLLATDSDKEKDHIFSPYTAFGDLEIFLHGLGLEHMTDSLKEKDITLRHLLTMKKDELTKNGIASKDQQKILAALKELEVEEINFGKLPEVTKLEISGDEFLNFLLKLNKQCGHLITAVQNIITELPVNSHKIVLEWASPRNFTSVCEELVSNVEDLNEEVCRLKELIQKMQNERENDPTHIPLVEEVSTWKTRILKRSAVTVCGFGLLLFIGKLTLQRK |
| 29 | sp|F4JQH3|AMPP1\_ARATH | MSEILSSLRSLMASHSPPLDALVVPSEDYHQSEYVSARDKRREFVSGFSGSAGLALITKKEARLWTDGRYFLQALQQLSDEWTLMRMGEDPLVEVWMSDNLPEEANIGVDSWCVSVDTANRWGKSFAKKNQKLITTTTDLVDEVWKSRPPSEMSPVVVHPLEFAGRSVSHKFEDLRAKLKQEGARGLVIAALDEVAWLYNIRGTDVAYCPVVHAFAILTTDSAFLYVDKKKVSDEANSYFNGLGVEVREYTDVISDVALLASDRLISSFASKTVQHEAAKDMEIDSDQPDRLWVDPASCCYALYSKLDAEKVLLQPSPISLSKALKNPVELEGIKNAHVRDGAAVVQYLVWLDNQMQELYGASGYFLEAEASKKKPSETSKLTEVTVSDKLESLRASKEHFRGLSFPTISSVGSNAAVIHYSPEPEACAEMDPDKIYLCDSGAQYLDGTTDITRTVHFGKPSAHEKECYTAVFKGHVALGNARFPKGTNGYTLDILARAPLWKYGLDYRHGTGHGVGSYLCVHEGPHQVSFRPSARNVPLQATMTVTDEPGYYEDGNFGIRLENVLVVNDAETEFNFGDKGYLQFEHITWAPYQVKLIDLDELTREEIDWLNTYHSKCKDILAPFMNQTEMEWLKKATEPVSVSA |
| 30 | sp|P00688|AMYP\_MOUSE | MKFVLLLSLIGFCWAQYDPHTSDGRTAIVHLFEWRWVDIAKECERYLAPKGFGGVQVSPPNENVVVHNPSRPWWERYQPISYKICTRSGNEDEFRDMVTRCNNVGVRIYVDAVINHMCGAGNPAGTSSTCGSYLNPNNREFPAVPYSAWDFNDNKCNGEIDNYNDAYQVRNCRLTGLLDLALEKDYVRTKVADYMNHLIDIGVAGFRLDAAKHMWPGDIKAVLDKLHNLNTKWFSQGSRPFIFQEVIDLGGEAIKGSEYFGNGRVTEFKYGAKLGTVIRKWNGEKMSYLKNWGEGWGLVPSDRALVFVDNHDNQRGHGAGGSSILTFWDARMYKMAVGFMLAHPYGFTRVMSSYRWNRNFQNGKDQNDWIGPPNNNGVTKEVTINADTTCGNDWVCEHRWRQIRNMVAFRNVVNGQPFSNWWDNNSNQVAFSRGNRGFIVFNNDDWALSATLQTGLPAGTYCDVISGDKVDGNCTGLRVNVGSDGKAHFSISNSAEDPFIAIHADSKL |
| 31 | sp|Q6NXK8|ASIC1\_MOUSE | MELKTEEEEVGGVQPVSIQAFASSSTLHGLAHIFSYERLSLKRALWALCFLGSLAVLLCVCTERVQYYFCYHHVTKLDEVAASQLTFPAVTLCNLNEFRFSQVSKNDLYHAGELLALLNNRYEIPDTQMADEKQLEILQDKANFRSFKPKPFNMREFYDRAGHDIRDMLLSCHFRGEACSAEDFKVVFTRYGKCYTFNSGQDGRPRLKTMKGGTGNGLEIMLDIQQDEYLPVWGETDETSFEAGIKVQIHSQDEPPFIDQLGFGVAPGFQTFVSCQEQRLIYLPSPWGTCNAVTMDSDFFDSYSITACRIDCETRYLVENCNCRMVHMPGDAPYCTPEQYKECADPALDFLVEKDQEYCVCEMPCNLTRYGKELSMVKIPSKASAKYLAKKFNKSEQYIGENILVLDIFFEVLNYETIEQKKAYEIAGLLGDIGGQMGLFIGASILTVLELFDYAYEVIKHRLCRRGKCQKEAKRNSADKGVALSLDDVKRHNPCESLRGHPAGMTYAANILPHHPARGTFEDFTC |
| 32 | sp|A5H2P4|ARO12\_LODEL | MSIEKVSILGKESIHVGYGIQSHIVEETIKCLASSTYVIISDTNMSKTPTYEKLQDSFQKELAKQRPQSRLLTYLIPPGENHKNRETKAEVEDFLLQQGCTRDTVILAVGGGVIGDMIGFVAATFMRGVRVVQVPTTLLSMVDSSVGGKTAIDTELGKNFIGAFHQPEFVFCDVSFLQTLPKRQLINGMAEVVKTAAIWDETEFTRLEGFAKRFLAEISAPTPNLESIKDELIKTVLGSVRVKAFVVSADEKEGGLRNLLNFGHTIGHAIEAILTPEALHGECVSIGMIKEAELSRYLGILPPSAVARLSKCLAAYGLPISVDEKIFSKIIGAKKNNLKIDSLIKKMLIDKKNDGSKIRCVLLESIGKCYESKAHQIFKEDIQVVMTDEVFVHPFANRHPESVSITPPGSKSISNRALILAALGEGTTRIKNLLHSDDTKHMLDAVVLMKGATVSFEDSGDTVVVQGHGGKLFACKEEIYLGNAGTASRFLTAVAALVNSTQDEKSVTLTGNARMQERPIAALVDALTTNGSKVDYLNKQGSLPLKIEAGNGFKGGRIELAATTSSQYVSAILMCAPYAEKEVTLSLVGGKPISQLYIDMTIAMMKDFGVDVTKSETEEYTYHIPKAVYQNPQEYVVESDASSATYPLAFAALTNSSCTIPNIGSSSLQGDARFAVDVLKPMGCTVEQTSKSTTVTGPPIGTLKALPEIDMEPMTDAFLTASVVAAVSQGTTTISGIANQRVKECNRIKAMVDELAKFGVSADETEDGISIHGVQLKDLKTPGGRGVKTYDDHRVAMSFSLLAGLCKDPVLIQERSTTGKTWPGWWDVLHSKFNAKLEGHEYIRQRSGSLRNGDRSIVIIGMRAAGKTTLSRWLAEHLNFKLLDLDQYLEKKLAVDIKLLVKEKGWDYFREKETEVLNECLEKFGKGHILATGGGIVEGEKPREALKNYTKSGGIVLHLHRDLKETVNFLSKDPTRPAYSDDIEEVWKRREKWYHECSNYHFYSTHCTSEAEFANLKLVFAKFVSKITGDDTFVLPATRSTFVTLTYPDLRKVPSLIKDVSETSNAVELRVDLLANQETAYIAEQIGLLRSVATDLPILYTVRTKSQCGQYPDEDEEGMRKLLMFGLKMGVDIIDLQLISSPSTIAEVISKRGHTKIIASHHDFTGDLKWDNVEWKNKYAQGVSIDADFVKLVGMAKTFDDNLLLENFRRQNTEKPLIGINMGPQGKLSRVLNKVLTPVTHELITDKPIGVGQLSLKEINQALFQIGGLLEKEFWVVGFPVSHSRSPALHNAAYAALGLPYKFDIFETDDAEKVYTQLMQKPTFGGLAVTIPLKLDIKKYCTELSESAKLIGAVNTVTPIADGRKGFLGDNTDWIGIANSFKKADFALASGVTNGLVVGGGGTSRAAIFALHSLGCQKIYLLNRTESKLQDLVDSFPDYDLEILLEKNASSVSIGLVVSCVPGDKALDETLMKKLDGVLSNNKGDKQTRPLLLEAAYKPRVTPIMELAKEKYDWTVIPGVEMLVNQGEAQFKLHTGYTAPYKVIHSAVLNE |
| 33 | sp|A5GFW1|AURKA\_PIG | MDKCKENCISGLKTTVPPGDGPKRVPVTQHFPAQHLPSANSGQAQRVLCPSNSSQRLPSHTQKLVSSHKPVQNLKQKQSQATSGPRPVSRPLSNTQQSEQPQPAAPGNNPEKEAASKQKNEESKKRQWALEDFEIGRPLGKGKFGNVYLAREKQSKFILALKVLFKTQLEKAGVEHQLRREVEIQSHLRHPNILRLYGYFHDATRVYLILEYAPLGAVYRELQKLSKFDEQRTATYITELANALSYCHSKRVIHRDIKPENLLLGSAGELKIADFGWSVHAPSSRRTTLCGTLDYLPPEMIEGRMHDEKVDLWSLGVLCYEFLVGKPPFEANTYQETYKRISRVEFTFPDFVPEGARDLISRLLKHNPSHRPTLKEVLEHPWITANSKPASSHKKESTSKQP |
| 34 | sp|P48047|ATPO\_HUMAN | MAAPAVSGLSRQVRCFSTSVVRPFAKLVRPPVQVYGIEGRYATALYSAASKQNKLEQVEKELLRVAQILKEPKVAASVLNPYVKRSIKVKSLNDITAKERFSPLTTNLINLLAENGRLSNTQGVVSAFSTMMSVHRGEVPCTVTSASPLEEATLSELKTVLKSFLSQGQVLKLEAKTDPSILGGMIVRIGEKYVDMSVKTKIQKLGRAMREIV |
| 35 | sp|P26449|BUB3\_YEAST | MQIVQIEQAPKDYISDIKIIPSKSLLLITSWDGSLTVYKFDIQAKNVDLLQSLRYKHPLLCCNFIDNTDLQIYVGTVQGEILKVDLIGSPSFQALTNNEANLGICRICKYGDDKLIAASWDGLIEVIDPRNYGDGVIAVKNLNSNNTKVKNKIFTMDTNSSRLIVGMNNSQVQWFRLPLCEDDNGTIEESGLKYQIRDVALLPKEQEGYACSSIDGRVAVEFFDDQGDDYNSSKRFAFRCHRLNLKDTNLAYPVNSIEFSPRHKFLYTAGSDGIISCWNLQTRKKIKNFAKFNEDSVVKIACSDNILCLATSDDTFKTNAAIDQTIELNASSIYIIFDYEN |
| 36 | sp|O60566|BUB1B\_HUMAN | MAAVKKEGGALSEAMSLEGDEWELSKENVQPLRQGRIMSTLQGALAQESACNNTLQQQKRAFEYEIRFYTGNDPLDVWDRYISWTEQNYPQGGKESNMSTLLERAVEALQGEKRYYSDPRFLNLWLKLGRLCNEPLDMYSYLHNQGIGVSLAQFYISWAEEYEARENFRKADAIFQEGIQQKAEPLERLQSQHRQFQARVSRQTLLALEKEEEEEVFESSVPQRSTLAELKSKGKKTARAPIIRVGGALKAPSQNRGLQNPFPQQMQNNSRITVFDENADEASTAELSKPTVQPWIAPPMPRAKENELQAGPWNTGRSLEHRPRGNTASLIAVPAVLPSFTPYVEETARQPVMTPCKIEPSINHILSTRKPGKEEGDPLQRVQSHQQASEEKKEKMMYCKEKIYAGVGEFSFEEIRAEVFRKKLKEQREAELLTSAEKRAEMQKQIEEMEKKLKEIQTTQQERTGDQQEETMPTKETTKLQIASESQKIPGMTLSSSVCQVNCCARETSLAENIWQEQPHSKGPSVPFSIFDEFLLSEKKNKSPPADPPRVLAQRRPLAVLKTSESITSNEDVSPDVCDEFTGIEPLSEDAIITGFRNVTICPNPEDTCDFARAARFVSTPFHEIMSLKDLPSDPERLLPEEDLDVKTSEDQQTACGTIYSQTLSIKKLSPIIEDSREATHSSGFSGSSASVASTSSIKCLQIPEKLELTNETSENPTQSPWCSQYRRQLLKSLPELSASAELCIEDRPMPKLEIEKEIELGNEDYCIKREYLICEDYKLFWVAPRNSAELTVIKVSSQPVPWDFYINLKLKERLNEDFDHFCSCYQYQDGCIVWHQYINCFTLQDLLQHSEYITHEITVLIIYNLLTIVEMLHKAEIVHGDLSPRCLILRNRIHDPYDCNKNNQALKIVDFSYSVDLRVQLDVFTLSGFRTVQILEGQKILANCSSPYQVDLFGIADLAHLLLFKEHLQVFWDGSFWKLSQNISELKDGELWNKFFVRILNANDEATVSVLGELAAEMNGVFDTTFQSHLNKALWKVGKLTSPGALLFQ |
| 37 | sp|O22806|BUBR1\_ARATH | MAAETKVQVSDPEAEFLNSKQETGYEWELFKENVRPLKRGRNVGILNHALKSHSDHQLRKNLIEKRRNLIEAIDEYEGDDPLSPWIECIKWVQEAFPPGGECSGLLVIYEQCVRKFWHSERYKDDLRYLKVWLEYAEHCADAEVIYKFLEVNEIGKTHAVYYIAYALHIEFKNKVKTANEIFNLGISRDAKPVEKLNDAYKKFMVRTMRRSNTADEEPKENNDLPSRSFGTLLSRGDNNARRQALGSSNPQAKKLKPNQSSKTPFAIYADAVSDTTSGNQPESDKSRPEFGSWLMLGGRAERNKENNSLPRKWASFKVPQKPIVRTVAAASASTFEVFVDEEECTEEEEEKKKNDETISSSSNVLPLNGGREIKKETELLRQNPLRHFPPNSFLR |
| 38 | sp|P02746|C1QB\_HUMAN | MMMKIPWGSIPVLMLLLLLGLIDISQAQLSCTGPPAIPGIPGIPGTPGPDGQPGTPGIKGEKGLPGLAGDHGEFGEKGDPGIPGNPGKVGPKGPMGPKGGPGAPGAPGPKGESGDYKATQKIAFSATRTINVPLRRDQTIRFDHVITNMNNNYEPRSGKFTCKVPGLYYFTYHASSRGNLCVNLMRGRERAQKVVTFCDYAYNTFQVTTGGMVLKLEQGENVFLQATDKNSLLGMEGANSIFSGFLLFPDMEA |
| 39 | sp|B9FDE0|BSK3\_ORYSJ | MGGRVSKAVACCCCRSQHHGVVVESSEKTAEEDHGESYELPAFQEFSFEQLRLATSGFAVENIVSEHGEKAPNVVYKGKLDAQRRIAVKRFNRSAWPDPRQFLEEAKSVGQLRSKRLANLLGCCCEGDERLLVAEYMPNDTLAKHLFHWEAQAMKWPMRLRVVLYLAEALEYCTSKGRALYHDLNAYRVLFDDDCNPRLSCFGLMKNSRDGKSYSTNLAFTPPEYMRTGRITPESVIYSFGTLLLDVLSGKHIPPSHALDLIRDRNFNMLTDSCLEGQFSNEEGTELVRLASRCLHYEPRERPNVRSLVQALAPLQKDLETPSYELMDIPRGGATSVQSLLLSPLAEACSRKDLTAIHEILEKTGYKDDEGTANELSFQMWTNQMQDTLNSKKKGDNAFRQKDFSSAIDCYSQFIEVGTMVSPTIYARRCLSYLMNDKAEQALSDAMQALVISPTWPTAFYLQAAALLSLGMENEAQEAIKDGCAHETSSSSGH |
| 40 | sp|Q8K2Y9|CCM2\_MOUSE | MEEEGKKGKKPGIVSPFKRVFLKGEKSRDKKAHEKVTERRPLHTVVLALPERVEPDRLLSDYIEKEVKYLGQLTSIPGYLNPSSRTEILHFIDKAKRSHQLPGHLTQEHDAVLSLSAYNVKLAWRDGEDIILRVPIHDIAAVSYVRDDAAHLVVLKTAQDPGISPSQSLCAESSRGLSAGSLSESAVGPVEACCLVIMATESKVAAEELCSLLSQVFQIVYTESTIDFLDRAIFDGASTPTHHLSLHSDDSSTKVDMKDSYDADASTFCFPDSGDVGGLPPLPFCMQTSPHSKTVSESELSTSATELLQDYMLTLRTKLSSQEIQQFAALLHEYRNGASIHEFCISLRQLYGDSRKFLLLGLRPFIPEKDSQHFENFLETIGVKDGRGIITDSFGRHRRALSTTSTSTINGNRTTGSPDDRSAPSEGDEWDRMISDISSDIEALGCSMDQDSA |
| 41 | sp|Q9EQV9|CBPB2\_RAT | MKLYGLGVLVAIILYEKHGLAFQSGHVLSALPRTSRQVQLLQNLTTTYEVVLWQPVTAEFIEKKKEVHFFVNASDVNSVKAYLNASRIPFNVLMNNVEDLIQQQTSNDTVSPRASSSYYEQYHSLNEIYSWIEVITEQHPDMLQKIYIGSSYEKYPLYVLKVSGKEHRVKNAIWIDCGIHAREWISPAFCLWFIGYVTQFHGKENTYTRLLRHVDFYIMPVMNVDGYDYTWKKNRMWRKNRSVHMNNRCVGTDLNRNFASKHWCEKGASSFSCSETYCGLYPESEPEVKAVADFLRRNINHIKAYISMHSYSQQILFPYSYNRSKSKDHEELSLVASEAVRAIESINKNTRYTHGSGSESLYLAPGGSDDWIYDLGIKYSFTIELRDTGRYGFLLPERFIKPTCAEALAAVSKIAWHVIRNS |
| 42 | sp|Q5VZK9|CARL1\_HUMAN | MTEESSDVPRELIESIKDVIGRKIKISVKKKVKLEVKGDKVENKVLVLTSCRAFLVTARIPTKLELTFSYLEIHGVVCSKSAQMIVETEKCSISMKMASPEDVSEVLAHIGTCLRKIFPGLSPVRIMKKVSMEPSERLASLQALWDSQTVAEQGPCGGFSQMYACVCDWLGFSYREEVQWDVDTIYLTQDTRELNLQDFSHLDHRDLIPIIAALEYNQWFTKLSSKDLKLSTDVCEQILRVVSRSNRLEELVLENAGLRTDFAQKLASALAHNPNSGLHTINLAGNPLEDRGVSSLSIQFAKLPKGLKHLNLSKTSLSPKGVNSLSQSLSANPLTASTLVHLDLSGNVLRGDDLSHMYNFLAQPNAIVHLDLSNTECSLDMVCGALLRGCLQYLAVLNLSRTVFSHRKGKEVPPSFKQFFSSSLALMHINLSGTKLSPEPLKALLLGLACNHNLKGVSLDLSNCELRSGGAQVLEGCIAEIHNITSLDISDNGLESDLSTLIVWLSKNRSIQHLALGKNFNNMKSKNLTPVLDNLVQMIQDEESPLQSLSLADSKLKTEVTIIINALGSNTSLTKVDISGNGMGDMGAKMLAKALQINTKLRTVIWDKNNITAQGFQDIAVAMEKNYTLRFMPIPMYDASQALKTNPEKTEDALQKIENYLLRNHETRKYLQEQAYRLQQGIVTSTTQQMIDRICVKVQDHLNSLRNCGGDAIQEDLKSAERLMRDAKNSKTLLPNLYHVGGASWAGASGLLSSPIQETLESMAGEVTRVVDEQLKALLESMVDAAENLCPNVMKKAHIRQDLIHASTEKISIPRTFVKNVLLEQSGIDILNKISEVKLTVASFLSDRIVDEILDALSHCHHKLADHFSRRGKTLPQQESLEIELAEEKPVKRSIITVEELTEIERLEDLDTCMMTPKSKRKSIHSRMLRPVSRAFEMEFDLDKALEEVPIHIEDPPFPSLRQEKRSSGFISELPSEEGKKLEHFTKLRPKRNKKQQPTQAAVCAANIVSQDGEQNGLMGRVDEGVDEFFTKKVTKMDSKKWSTRGSESHELNEGGDEKKKRDSRKSSGFLNLIKSRSKSERPPTILMTEEPSSPKGAVRSPPVDCPRKDTKAAEHNGNSERIEEIKTPDSFEESQGEEIGKVERSDSKSSPQAGRRYGVQVMGSGLLAEMKAKQEKRAACAQKKLGNDAVSQDSSSPALSGVERSDGGGAVPKLHPGLPENRFGLGTPEKNTKAEPKAEAGSRSRSSSSTPTSPKPLLQSPKPSLAARPVIPQKPRTASRPDDIPDSPSSPKVALLPPVLKKVPSDKERDGQSSPQPSPRTFSQEVSRRSWGQQAQEYQEQKQRSSSKDGHQGSKSNDSGEEAEKEFIFV |
| 43 | sp|P02668|CASK\_BOVIN | MMKSFFLVVTILALTLPFLGAQEQNQEQPIRCEKDERFFSDKIAKYIPIQYVLSRYPSYGLNYYQQKPVALINNQFLPYPYYAKPAAVRSPAQILQWQVLSNTVPAKSCQAQPTTMARHPHPHLSFMAIPPKKNQDKTEIPTINTIASGEPTSTPTTEAVESTVATLEDSPEVIESPPEINTVQVTSTAV |
| 44 | sp|P53634|CATC\_HUMAN | MGAGPSLLLAALLLLLSGDGAVRCDTPANCTYLDLLGTWVFQVGSSGSQRDVNCSVMGPQEKKVVVYLQKLDTAYDDLGNSGHFTIIYNQGFEIVLNDYKWFAFFKYKEEGSKVTTYCNETMTGWVHDVLGRNWACFTGKKVGTASENVYVNIAHLKNSQEKYSNRLYKYDHNFVKAINAIQKSWTATTYMEYETLTLGDMIRRSGGHSRKIPRPKPAPLTAEIQQKILHLPTSWDWRNVHGINFVSPVRNQASCGSCYSFASMGMLEARIRILTNNSQTPILSPQEVVSCSQYAQGCEGGFPYLIAGKYAQDFGLVEEACFPYTGTDSPCKMKEDCFRYYSSEYHYVGGFYGGCNEALMKLELVHHGPMAVAFEVYDDFLHYKKGIYHHTGLRDPFNPFELTNHAVLLVGYGTDSASGMDYWIVKNSWGTGWGENGYFRIRRGTDECAIESIAVAATPIPKL |
| 45 | sp|P00746|CFAD\_HUMAN | MHSWERLAVLVLLGAAACAAPPRGRILGGREAEAHARPYMASVQLNGAHLCGGVLVAEQWVLSAAHCLEDAADGKVQVLLGAHSLSQPEPSKRLYDVLRAVPHPDSQPDTIDHDLLLLQLSEKATLGPAVRPLPWQRVDRDVAPGTLCDVAGWGIVNHAGRRPDSLQHVLLPVLDRATCNRRTHHDGAITERLMCAESNRRDSCKGDSGGPLVCGGVLEGVVTSGSRVCGNRKKPGIYTRVASYAAWIDSVLA |
| 46 | sp|P30260|CDC27\_HUMAN | MTVLQEPVQAAIWQALNHYAYRDAVFLAERLYAEVHSEEALFLLATCYYRSGKAYKAYRLLKGHSCTTPQCKYLLAKCCVDLSKLAEGEQILSGGVFNKQKSHDDIVTEFGDSACFTLSLLGHVYCKTDRLAKGSECYQKSLSLNPFLWSPFESLCEIGEKPDPDQTFKFTSLQNFSNCLPNSCTTQVPNHSLSHRQPETVLTETPQDTIELNRLNLESSNSKYSLNTDSSVSYIDSAVISPDTVPLGTGTSILSKQVQNKPKTGRSLLGGPAALSPLTPSFGILPLETPSPGDGSYLQNYTNTPPVIDVPSTGAPSKKSVARIGQTGTKSVFSQSGNSREVTPILAQTQSSGPQTSTTPQVLSPTITSPPNALPRRSSRLFTSDSSTTKENSKKLKMKFPPKIPNRKTKSKTNKGGITQPNINDSLEITKLDSSIISEGKISTITPQIQAFNLQKAAAEGLMSLLREMGKGYLALCSYNCKEAINILSHLPSHHYNTGWVLCQIGRAYFELSEYMQAERIFSEVRRIENYRVEGMEIYSTTLWHLQKDVALSVLSKDLTDMDKNSPEAWCAAGNCFSLQREHDIAIKFFQRAIQVDPNYAYAYTLLGHEFVLTEELDKALACFRNAIRVNPRHYNAWYGLGMIYYKQEKFSLAEMHFQKALDINPQSSVLLCHIGVVQHALKKSEKALDTLNKAIVIDPKNPLCKFHRASVLFANEKYKSALQELEELKQIVPKESLVYFLIGKVYKKLGQTHLALMNFSWAMDLDPKGANNQIKEAIDKRYLPDDEEPITQEEQIMGTDESQESSMTDADDTQLHAAESDEF |
| 47 | sp|O17386|CED8\_CAEEL | MFLKKHKSKLLLVPRDEEQEDAGIVAVLTDRIPSVLLVRWFDLFCFGFAMCSYALDFFSDIGIAIFHFWAGRYLSGSLVLAFALLPSVIINIISMVWMLDDEMHWKRRAHPRRTGTFELNQKRFIPLSKMIVLCICQMGPLFWYYKALYYGWMFRKSSNENTDGEKRKCFSKMVEAERDATLLRFFEAFLESAPQLIIQGSIAASYFQNYYQTGTYPYWLYFQAASLLLSIISISWSVVVQNRSLRMIRDDKVNIWPHEAVLQFCWRFLTILARIITLVALVLIFGINVVPLISVHLLVTLVHVIFLQAIHIDACTHIEKLLLLINTFIHIFIPFNMVEGNTRWRYLTAYSVEFIEMMLVCWLLPLSLNTFPYIEKVQVGVPISFIAGIAIMMMYYQFFHPNRRQLIVTQSQEDLSLNVQKSVETLTPKLESSLEISGEQNTSQDLVSELLLDVEHEN |
| 48 | sp|P06797|CATL1\_MOUSE | MNLLLLLAVLCLGTALATPKFDQTFSAEWHQWKSTHRRLYGTNEEEWRRAIWEKNMRMIQLHNGEYSNGQHGFSMEMNAFGDMTNEEFRQVVNGYRHQKHKKGRLFQEPLMLKIPKSVDWREKGCVTPVKNQGQCGSCWAFSASGCLEGQMFLKTGKLISLSEQNLVDCSHAQGNQGCNGGLMDFAFQYIKENGGLDSEESYPYEAKDGSCKYRAEFAVANDTGFVDIPQQEKALMKAVATVGPISVAMDASHPSLQFYSSGIYYEPNCSSKNLDHGVLLVGYGYEGTDSNKNKYWLVKNSWGSEWGMEGYIKIAKDRDNHCGLATAASYPVVN |
| 49 | sp|P40953|CHI2\_CANAL | MLSFKSLLAAAVVASSALASASNQVALYWGQNGAGGQERLAQYCQEADVDIILLSFLNLFPDPLNVNFANQCGNTFESGLLHCSQIGADIKTCQSLGKTVLLSLGGGVGDYGFSDVASATKFADTLWNKFGAGEDPERPFDDAVVDGFDFDIEHGGATGYPELATALRGKFAKDTSKNYFLSAAPQCPYPDASLGDLLSKVPLDFAFIQFYNNYCSINGQFNYDTWSKFADSAPNKNIKLFVGVPATSNIAGYVDTSKLSSAIEEIKCDSHFAGVSLWDASGAWLNTDEKGENFVVQVKNVLNQNACVAPSSSATTQSTTTTSSAVTQSTTTTSAAITQSATTTSAAVATKSNQIVTSSSSSSSSIFYGNSTTESSTGIATGTVLPTGSNENAATTGSGSNTKLAISTVTDVQKTVITITSCSEHKCVATPVTTGVVVVTDIDTVYTTYCPLTNSQVYVSVKTVVCTEETCVPSPTSTSQKPKASTTIKGVEKGQTTSYPVVGTTEGVKKIVTTSAQTVGSSTKYVTIELTSTITPVTYPTSVASNGTNTTVPVFTFEGGAAVANSLNSVWFTVPFLLAAFAF |
| 50 | sp|P06101|CDC37\_YEAST | MAIDYSKWDKIELSDDSDVEVHPNVDKKSFIKWKQQSIHEQRFKRNQDIKNLETQVDMYSHLNKRVDRILSNLPESSLTDLPAVTKFLNANFDKMEKSKGENVDPEIATYNEMVEDLFEQLAKDLDKEGKDSKSPSLIRDAILKHRAKIDSVTVEAKKKLDELYKEKNAHISSEDIHTGFDSSFMNKQKGGAKPLEATPSEALSSAAESNILNKLAKSSVPQTFIDFKDDPMKLAKETEEFGKISINEYSKSQKFLLEHLPIISEQQKDALMMKAFEYQLHGDDKMTLQVIHQSELMAYIKEIYDMKKIPYLNPMELSNVINMFFEKVIFNKDKPMGKESFLRSVQEKFLHIQKRSKILQQEEMDESNAEGVETIQLKSLDDSTELEVNLPDFNSKDPEEMKKVKVFKTLIPEKMQEAIMTKNLDNINKVFEDIPIEEAEKLLEVFNDIDIIGIKAILENEKDFQSLKDQYEQDHEDATMENLSLNDRDGGGDNHEEVKHTADTVD |
| 51 | sp|P06704|CDC31\_YEAST | MSKNRSSLQSGPLNSELLEEQKQEIYEAFSLFDMNNDGFLDYHELKVAMKALGFELPKREILDLIDEYDSEGRHLMKYDDFYIVMGEKILKRDPLDEIKRAFQLFDDDHTGKISIKNLRRVAKELGETLTDEELRAMIEEFDLDGDGEINENEFIAICTDS |
| 52 | sp|Q8SPQ0|CH3L1\_CAPHI | MGLRASGTGFVVLVLLQSCAAYKLICYYTSWSQYREGDGSCFPDAIDPFLCTHIIYSFANISNNEIDTWEWNDVTLYDTLNTLKNRNPKLKTLLSVGGWNFGPERFSKIASKTQSRRTFIKSVPPFLRTHGFDGLDLAWLYPGRRDKRHLTGLVKEMKAEFAREAQAGTERLLLSAAVSAGKIAIDRGYDIAQISRHLDFISLLTYDFHGAWRQTVGHHSPLFRGQEDASSDRFSNADYAVSYMLRLGAPANKLVMGIPTFGRSFTLASSKTDVGAPISGPGIPGRFTKEKGILAYYEICDFLHGATTHRFRDQQVPYATKGNQWVAYDDQESVKNKARYLKNRQLAGAMVWALDLDDFRGTFCGQNLTFPLTSAVKDVLAEV |
| 53 | sp|P41892|CDC7\_SCHPO | MHNIQASSITLGDCLGKGAFGAVYRGLNIKNGETVAVKKVKLSKMLKSDLSVIKMEIDLLKNLDHPNIVKYRGSYQTNDSLCIILEYCENGSLRSICKNFGKIPENLVALYTFQVLQGLLYLHNQGVIHRDIKGANILTTKDGTIKLADFGVATKINALEDHSVVGSPYWMAPEVIELVGATTASDIWSVGCTVIELLDGNPPYYDLDPTSALFRMVKDEHPPLPSNISSAAKSFLMQCFQKDPNLRIKTRKLLKHPWVIMNQTSSKFSDAIDEVQKYNERVKESTLTAIIEPTSNRINPTLHSGRQSSYHMPESPKTPIAESPDHDNWDNEFQGTLKISDDVLKKSEHFMDFCSNFKGKNNSSSITSSPSKSRHAFNSDQISESNNFNASPLSTPLKAQFDPSKPALNRSIDHQKTPQHKRYLSTEFKENIPDGIEKFVETPRDSEFTDIFPTSSIKVQGLRKETGLGTLVLNKCYGSWNNEENEDGEESDIFDSIETNLENLDIENNIALDKRTHLASLLSSLLGSLRDKNIGSKDTTVSQIASILSEDLSLKREIIQAHGILPLLETLREIKTPDVQLLLLKLINTVAFDDHTTLQKVCFAGGLPLMLSFSNREHSFEFRYESAIFIQQMYRTSALTLQMFLSSNGLNSLLLFIKEDYGTNRDFVFVGVEGIWKLLRQQDYIPKNDICTMVVNDSLEPLTKAMLKALATDDDSSRMSLTRICEILLALSQADNYVKESLLCESALRRILRILLYLPHSDMAITLQFFKQLSMVPSSLSLLRKVHIIPLLTHILGDSKIEKGRKEIRSEALAALFNVCKLDKKSQEEAVISGAIPLLQEVIIKDRLFKEFALPILLALPQAGPVSRIYLWQNKCLDFFLSLLSDLNWQSAVFDTIASWLQFELREVQRVLAEKRNVQLVLKVFCISQSASSNRMLDTLGRVCQISPRLAASYGQPIIFQKFKEKLTHKGTKPIVVLNIFQIMKSMCEASSQSVAYIAHCGLPDVVANLNQTSDSVLVKELAKDLLKYLKVPQGPINEHKSPISKPHMPPPRWQPKQPLTQ |
| 54 | sp|Q9HD42|CHM1A\_HUMAN | MDDTLFQLKFTAKQLEKLAKKAEKDSKAEQAKVKKALLQKNVECARVYAENAIRKKNEGVNWLRMASRVDAVASKVQTAVTMKGVTKNMAQVTKALDKALSTMDLQKVSSVMDRFEQQVQNLDVHTSVMEDSMSSATTLTTPQEQVDSLIMQIAEENGLEVLDQLSQLPEGASAVGESSVRSQEDQLSRRLAALRN |
| 55 | sp|E1BGN7|CGAS\_BOVIN | MAPPRRKATRKASETASGVSAPCVEGGLSAEPSEPAAVPEAPRPGARRCGAAGASGSRREKSRLDPREKPQVRARAARAEDQAEGPAAPTADAEPPAAPGHSLPRASTRSRGTASSARARRPQSGPPEGPGLGPRAPSPHLGRREEAPGAWKPRAVLEKLKLSRQEISVAAEVVNRLGDHLLRRLNSRESEFKGVDLLRTGSYYERVKISAPNEFDLMFTLEVPRIQLEEYCNSSAHYFVKFKRNPKGSPLDQFLEGGILSASKMLFKFRKIIKEEIKHIEDTDVIMERKKRGSPAVTLLIRKPREISVDIILALESKSSWPASTQKGLPISNWLGTKVKDNLKRQPFYLVPKHAKEGSLFQEETWRLSFSHIEKAILTNHGQTKTCCETEGVKCCRKECLKLMKYLLEQLKKKFGKQRGLDKFCSYHVKTAFLHVCTQNPHDSWWLYKDLELCFDNCVTYFLQCLKTEHLEHYFIPDVLSKQIEYEQNNGFPVFDEF |
| 56 | sp|P49454|CENPF\_HUMAN | MSWALEEWKEGLPTRALQKIQELEGQLDKLKKEKQQRQFQLDSLEAALQKQKQKVENEKTEGTNLKRENQRLMEICESLEKTKQKISHELQVKESQVNFQEGQLNSGKKQIEKLEQELKRCKSELERSQQAAQSADVSLNPCNTPQKIFTTPLTPSQYYSGSKYEDLKEKYNKEVEERKRLEAEVKALQAKKASQTLPQATMNHRDIARHQASSSVFSWQQEKTPSHLSSNSQRTPIRRDFSASYFSGEQEVTPSRSTLQIGKRDANSSFFDNSSSPHLLDQLKAQNQELRNKINELELRLQGHEKEMKGQVNKFQELQLQLEKAKVELIEKEKVLNKCRDELVRTTAQYDQASTKYTALEQKLKKLTEDLSCQRQNAESARCSLEQKIKEKEKEFQEELSRQQRSFQTLDQECIQMKARLTQELQQAKNMHNVLQAELDKLTSVKQQLENNLEEFKQKLCRAEQAFQASQIKENELRRSMEEMKKENNLLKSHSEQKAREVCHLEAELKNIKQCLNQSQNFAEEMKAKNTSQETMLRDLQEKINQQENSLTLEKLKLAVADLEKQRDCSQDLLKKREHHIEQLNDKLSKTEKESKALLSALELKKKEYEELKEEKTLFSCWKSENEKLLTQMESEKENLQSKINHLETCLKTQQIKSHEYNERVRTLEMDRENLSVEIRNLHNVLDSKSVEVETQKLAYMELQQKAEFSDQKHQKEIENMCLKTSQLTGQVEDLEHKLQLLSNEIMDKDRCYQDLHAEYESLRDLLKSKDASLVTNEDHQRSLLAFDQQPAMHHSFANIIGEQGSMPSERSECRLEADQSPKNSAILQNRVDSLEFSLESQKQMNSDLQKQCEELVQIKGEIEENLMKAEQMHQSFVAETSQRISKLQEDTSAHQNVVAETLSALENKEKELQLLNDKVETEQAEIQELKKSNHLLEDSLKELQLLSETLSLEKKEMSSIISLNKREIEELTQENGTLKEINASLNQEKMNLIQKSESFANYIDEREKSISELSDQYKQEKLILLQRCEETGNAYEDLSQKYKAAQEKNSKLECLLNECTSLCENRKNELEQLKEAFAKEHQEFLTKLAFAEERNQNLMLELETVQQALRSEMTDNQNNSKSEAGGLKQEIMTLKEEQNKMQKEVNDLLQENEQLMKVMKTKHECQNLESEPIRNSVKERESERNQCNFKPQMDLEVKEISLDSYNAQLVQLEAMLRNKELKLQESEKEKECLQHELQTIRGDLETSNLQDMQSQEISGLKDCEIDAEEKYISGPHELSTSQNDNAHLQCSLQTTMNKLNELEKICEILQAEKYELVTELNDSRSECITATRKMAEEVGKLLNEVKILNDDSGLLHGELVEDIPGGEFGEQPNEQHPVSLAPLDESNSYEHLTLSDKEVQMHFAELQEKFLSLQSEHKILHDQHCQMSSKMSELQTYVDSLKAENLVLSTNLRNFQGDLVKEMQLGLEEGLVPSLSSSCVPDSSSLSSLGDSSFYRALLEQTGDMSLLSNLEGAVSANQCSVDEVFCSSLQEENLTRKETPSAPAKGVEELESLCEVYRQSLEKLEEKMESQGIMKNKEIQELEQLLSSERQELDCLRKQYLSENEQWQQKLTSVTLEMESKLAAEKKQTEQLSLELEVARLQLQGLDLSSRSLLGIDTEDAIQGRNESCDISKEHTSETTERTPKHDVHQICDKDAQQDLNLDIEKITETGAVKPTGECSGEQSPDTNYEPPGEDKTQGSSECISELSFSGPNALVPMDFLGNQEDIHNLQLRVKETSNENLRLLHVIEDRDRKVESLLNEMKELDSKLHLQEVQLMTKIEACIELEKIVGELKKENSDLSEKLEYFSCDHQELLQRVETSEGLNSDLEMHADKSSREDIGDNVAKVNDSWKERFLDVENELSRIRSEKASIEHEALYLEADLEVVQTEKLCLEKDNENKQKVIVCLEEELSVVTSERNQLRGELDTMSKKTTALDQLSEKMKEKTQELESHQSECLHCIQVAEAEVKEKTELLQTLSSDVSELLKDKTHLQEKLQSLEKDSQALSLTKCELENQIAQLNKEKELLVKESESLQARLSESDYEKLNVSKALEAALVEKGEFALRLSSTQEEVHQLRRGIEKLRVRIEADEKKQLHIAEKLKERERENDSLKDKVENLERELQMSEENQELVILDAENSKAEVETLKTQIEEMARSLKVFELDLVTLRSEKENLTKQIQEKQGQLSELDKLLSSFKSLLEEKEQAEIQIKEESKTAVEMLQNQLKELNEAVAALCGDQEIMKATEQSLDPPIEEEHQLRNSIEKLRARLEADEKKQLCVLQQLKESEHHADLLKGRVENLERELEIARTNQEHAALEAENSKGEVETLKAKIEGMTQSLRGLELDVVTIRSEKENLTNELQKEQERISELEIINSSFENILQEKEQEKVQMKEKSSTAMEMLQTQLKELNERVAALHNDQEACKAKEQNLSSQVECLELEKAQLLQGLDEAKNNYIVLQSSVNGLIQEVEDGKQKLEKKDEEISRLKNQIQDQEQLVSKLSQVEGEHQLWKEQNLELRNLTVELEQKIQVLQSKNASLQDTLEVLQSSYKNLENELELTKMDKMSFVEKVNKMTAKETELQREMHEMAQKTAELQEELSGEKNRLAGELQLLLEEIKSSKDQLKELTLENSELKKSLDCMHKDQVEKEGKVREEIAEYQLRLHEAEKKHQALLLDTNKQYEVEIQTYREKLTSKEECLSSQKLEIDLLKSSKEELNNSLKATTQILEELKKTKMDNLKYVNQLKKENERAQGKMKLLIKSCKQLEEEKEILQKELSQLQAAQEKQKTGTVMDTKVDELTTEIKELKETLEEKTKEADEYLDKYCSLLISHEKLEKAKEMLETQVAHLCSQQSKQDSRGSPLLGPVVPGPSPIPSVTEKRLSSGQNKASGKRQRSSGIWENGRGPTPATPESFSKKSKKAVMSGIHPAEDTEGTEFEPEGLPEVVKKGFADIPTGKTSPYILRRTTMATRTSPRLAAQKLALSPLSLGKENLAESSKPTAGGSRSQKVKVAQRSPVDSGTILREPTTKSVPVNNLPERSPTDSPREGLRVKRGRLVPSPKAGLESNGSENCKVQ |
| 57 | sp|Q7L2Z9|CENPQ\_HUMAN | MSGKANASKKNAQQLKRNPKRKKDNEEVVLSENKVRNTVKKNKNHLKDLSSEGQTKHTNLKHGKTAASKRKTWQPLSKSTRDHLQTMMESVIMTILSNSIKEKEEIQYHLNFLKKRLLQQCETLKVPPKKMEDLTNVSSLLNMERARDKANEEGLALLQEEIDKMVETTELMTGNIQSLKNKIQILASEVEEEEERVKQMHQINSSGVLSLPELSQKTLKAPTLQKEILALIPNQNALLKDLDILHNSSQMKSMSTFIEEAYKKLDAS |
| 58 | sp|P27548|CD40L\_MOUSE | MIETYSQPSPRSVATGLPASMKIFMYLLTVFLITQMIGSVLFAVYLHRRLDKVEEEVNLHEDFVFIKKLKRCNKGEGSLSLLNCEEMRRQFEDLVKDITLNKEEKKENSFEMQRGDEDPQIAAHVVSEANSNAASVLQWAKKGYYTMKSNLVMLENGKQLTVKREGLYYVYTQVTFCSNREPSSQRPFIVGLWLKPSSGSERILLKAANTHSSSQLCEQQSVHLGGVFELQAGASVFVNVTEASQVIHRVGFSSFGLLKL |
| 59 | sp|P47902|CDX1\_HUMAN | MYVGYVLDKDSPVYPGPARPASLGLGPQAYGPPAPPPAPPQYPDFSSYSHVEPAPAPPTAWGAPFPAPKDDWAAAYGPGPAAPAASPASLAFGPPPDFSPVPAPPGPGPGLLAQPLGGPGTPSSPGAQRPTPYEWMRRSVAAGGGGGSGKTRTKDKYRVVYTDHQRLELEKEFHYSRYITIRRKSELAANLGLTERQVKIWFQNRRAKERKVNKKKQQQQQPPQPPMAHDITATPAGPSLGGLCPSNTSLLATSSPMPVKEEFLP |
| 60 | sp|P29452|CASP1\_MOUSE | MADKILRAKRKQFINSVSIGTINGLLDELLEKRVLNQEEMDKIKLANITAMDKARDLCDHVSKKGPQASQIFITYICNEDCYLAGILELQSAPSAETFVATEDSKGGHPSSSETKEEQNKEDGTFPGLTGTLKFCPLEKAQKLWKENPSEIYPIMNTTTRTRLALIICNTEFQHLSPRVGAQVDLREMKLLLEDLGYTVKVKENLTALEMVKEVKEFAACPEHKTSDSTFLVFMSHGIQEGICGTTYSNEVSDILKVDTIFQMMNTLKCPSLKDKPKVIIIQACRGEKQGVVLLKDSVRDSEEDFLTDAIFEDDGIKKAHIEKDFIAFCSSTPDNVSWRHPVRGSLFIESLIKHMKEYAWSCDLEDIFRKVRFSFEQPEFRLQMPTADRVTLTKRFYLFPGH |
| 61 | sp|O61661|CHK1\_DROME | MAATLTEAGTGPAATREFVEGWTLAQTLGEGAYGEVKLLINRQTGEAVAMKMVDLKKHPDAANSVRKEVCIQKMLQDKHILRFFGKRSQGSVEYIFLEYAAGGELFDRIEPDVGMPQHEAQRYFTQLLSGLNYLHQRGIAHRDLKPENLLLDEHDNVKISDFGMATMFRCKGKERLLDKRCGTLPYVAPEVLQKAYHAQPADLWSCGVILVTMLAGELPWDQPSTNCTEFTNWRDNDHWQLQTPWSKLDTLAISLLRKLLATSPGTRLTLEKTLDHKWCNMQFADNERSYDLVDSAAALEICSPKAKRQRLQSSAHLSNGLDDSISRNYCSQPMPTMRSDDDFNVRLGSGRSKEDGGDRQTLAQEARLSYSFSQPALLDDLLLATQMNQTQNASQNYFQRLVRRMTRFFVTTRWDDTIKRLVGTIERLGGYTCKFGDDGVVTVSTVDRNKLRLVFKAHIIEMDGKILVDCRLSKGCGLEFKRRFIKIKNALEDIVLKGPTTWPIAIATNSVP |
| 62 | sp|Q09822|CDC15\_SCHPO | MEVNGVSQSEAAPYVTKSSVKFRDNFWGSEDAGMDALMSRTKSSLSVLESIDEFYAKRASIEREYASKLQELAASSADIPEVGSTLNNILSMRTETGSMAKAHEEVSQQINTELRNKIREYIDQTEQQKVVAANAIEELYQKKTALEIDLSEKKDAYEYSCNKLNSYMRQTKKMTGRELDKYNLKIRQAALAVKKMDAEYRETNELLLTVTREWIDRWTEVCDAFQHIEEYRLEFLKTNMWAYANIISTACVKDDESCEKIRLTLENTNIDEDITQMIQNEGTGTTIPPLPEFNDYFKENGLNYDIDQLISKAPSYPYSSSRPSASASLASSPTRSAFRPKTSETVSSEVVSSPPTSPLHSPVKPVSNEQVEQVTEVELSIPVPSIQEAESQKPVLTGSSMRRPSVTSPTFEVAARPLTSMDVRSSHNAETEVQAIPAATDISPEVKEGKNSENAITKDNDDIILSSQLQPTATGSRSSRLSFSRHGHGSQTSLGSIKRKSIMERMGRPTSPFMGSSFSNMGSRSTSPTKEGFASNQHATGASVQSDELEDIDPRANVVLNVGPNMLSVGEAPVESTSKEEDKDVPDPIANAMAELSSSMRRRQSTSVDDEAPVSLSKTSSSTRLNGLGYHSRNTSIASDIDGVPKKSTLGAPPAAHTSAQMQRMSNSFASQTKQVFGEQRTENSARESLRHSRSNMSRSPSPMLSRRSSTLRPSFERSASSLSVRQSDVVSPAPSTRARGQSVSGQQRPSSSMSLYGEYNKSQPQLSMQRSVSPNPLGPNRRSSSVLQSQKSTSSNTSNRNNGGYSGSRPSSEMGHRYGSMSGRSMRQVSQRSTSRARSPEPTNRNSVQSKNVDPRATFTAEGEPILGYVIALYDYQAQIPEEISFQKGDTLMVLRTQEDGWWDGEIINVPNSKRGLFPSNFVQTV |
| 63 | sp|Q05826|CEBPB\_CHICK | MQRLVAWDAACLPIQPPAFKSMEVANFYYEADCLAALNKLHPRAAGGRSMTELTVGDHERAIDFSPYLDPLAASQQPAQPPPPAAAAGGNFEPACSSGGQDFLSDLFAEDYKGSGGGKKPDYTYISLTRHGHPCGSQSHKPGVLPGCFPPQIVETKVEPVFETLDSCKGPRKEEGGAGPGPGGMSSPYGSTVRSYLGYQSVPSGSSGNLSTSSSSSPPGTPNPSESSKSAAGAGGYSGPPAGKNKPKKCVDKHSDEYKLRRERNNIAVRKSRDKAKMRNLETQHKVLELTAENERLQKKVEQLSRELSTLRNLFKQLPEPLLASSPRC |
| 64 | sp|Q9M3W5|CHLG\_AVESA | MATSHPLAAAAATSSSSATFRPPLRFLSSPPSSLTLNRRRSFPVVCAADADAKETTKKPTIPDKAPAAGSSFNQLLGIKGAKQETNIWKIRLQLTKPVTWPPLVWGVLCGAAASGNFHWTVEDVTKSIVCMLMSGPCLTGYTQTINDWYDRDIDAINEPYRPIPSGAISENEVITQIWVLLLGGLGLGALLDIWAGHDFPIIFYLALGGSLLSYIYSAPPLKLKQNGWIGNFALGASYIGLPWWAGQALFGTLTPDIVVLTCLYSIAGLGIAIVNDFKSIEGDRTLGLQSLPVAFGMETAKWICVGAIDITQLSVAAYLLSTGKLYYALALLGLTIPQVILQFQYFLKDPVKYDVKYQASAQPFFVFGLLVTALATSH |
| 65 | sp|P27636|CDC15\_YEAST | MNSMADTDRVNLTPIQRASEKSVQYHLKQVIGRGSYGVVYKAINKHTDQVVAIKEVVYENDEELNDIMAEISLLKNLNHNNIVKYHGFIRKSYELYILLEYCANGSLRRLISRSSTGLSENESKTYVTQTLLGLKYLHGEGVIHRDIKAANILLSADNTVKLADFGVSTIVNSSALTLAGTLNWMAPEILGNRGASTLSDIWSLGATVVEMLTKNPPYHNLTDANIYYAVENDTYYPPSSFSEPLKDFLSKCFVKNMYKRPTADQLLKHVWINSTENVKVDKLNKFKEDFTDADYHWDADFQEEKLNISPSKFSLAAAPAAWAENNQELDLMPPTESQLLSQLKSSSKPLTDLHVLFSVCSLENIADTIIECLSRTTVDKRLITAFGSIFVYDTQHNHSRLRLKFIAMGGIPLIIKFEHLAKEFVIDYPQTLIECGIMYPPNFASLKTPKYILELVYRFYDLTSTAFWCRWCFKHLDISLLLNNIHERRAQSILLKLSSYAPWSFEKILPSLIDSKLKKKILISPQITYVVFKSINYMITTNDDKIHKSAIPSSSSLPLSSSPTRNSPVNSVQSPSRSPVHSLMATRPSSPMRHKSISNFPHLTISSKSRLLIELPEGFFTWLTSFFVDMAQIKDLSVLKYFTKLCYLTVHINSTFLNDLLDNDAFFAFIRNIDTIIPFIDDAKTAAFIWKQITAICVEMSLDMDQMSASLFSTAMNFIRKKNNTSISGLEIILNCLHFTLRNVNDDVAPTVGSSESHSVFLIKVNNDAAIELPIDQLVDLFYALNDDDVNLSKLISIFTKICSLPGFENLTINIIFHPNFYEKIVSFFDTYFNSLLIQIDLLKFIKLIFSKSLLKLYDYTGQPDPIKQTEPNRRNKATVFKLRAILVQITEFLNNNWNKDVPKRNSNQVGGDSVLICQLCEDIRSLSKKGSLQKVSSVTAAIGSSPTKDERSNLRSSKDKSDGFSVPITTFQT |
| 66 | sp|P12024|CHAO\_DROME | MGLEFFFKFGYAFLTITLMIMIWMSLARASMFDREMEETHYPPCTYNVMCTCSKSSTDLGIVHCKNVPFPALPRMVNQSKVFMLHMENTGLREIEPYFLQSTGMYRLKISGNHLTEIPDDAFTGLERSLWELILPQNDLVEIPSKSLRHLQKLRHLDLGYNHITHIQHDSFRGLEDSLQTLILRENCISQLMSHSFSGLLILETLDLSGNNLFEIDPNVFVDGMPRLTRLLLTDNILSEIPYDALGPLKSLRTLDISHNVIWSLSGNETYEIKASTKLNLDNLHLEYNHIEVLPPNSFKYFDTVNRTFFDGNPIHTLREDAFKPARIREIYMRYCGLTNISPVAFDSLVNSLQILDLSGNNLTKLHHKLFNNFDVLRVISMRDNKIKIQKPTETFNAVHYTLLKLDLSGDRNDPTNLQTLRNMTRMRNMRSLSISRLGSSSVGPEDFKDFGVELEDLQITRASLSGIQSHAFKHVRGLKRLDFSENGISSIENDAFHEIGHSLISLKMSHGYSGSALPAEPLRHLTSLQELDFSNNHISSMSDTSFHFLKNLRLLELHDNRIEQVLKGTFQGDIHSKLEEISLRFNHLTSISQHTFFDLEALRKLHLDDNKIDKIERRAFMNLDELEYLSLRGNKINNLADESFQNLPKLEILDMAFNQLPNFNFDYFDQVGTLSNLNVNVSHNQIRQLMYNSSWSGRNEHGGMYHSNIKILDLSHNNISIIHPGYFRPAEISLTHLHLGYNSLMNTTRDVFGNMPHLQWLDLSYNWIHELDFDAFKNTKQLQLVFFGHNYLSDIPQDIFKPVQGLRIVDFSHNHLRGLPDNLFYNGGMEKLDVSHNMMLKIPSSSLSSLAALTLCELHLSNNFISTIHSMDLSNKFRSLRYLDISYNYLLRIDDAVFATMPKLAVLDLSHNRDLKVMDKSFMGLENSLIKLGLENISLSTVPEIRLKYLREFRLGYNELPSIPQELAHNMSNLRMLDLSNNDLTNVPLMTQALPHLRRLMLSGNPITSLNNNSFDGVNEDLEMLDISNFRLHYFEYGCLDSLPHLRSLKLTAYSHLEHFNIPHLLRHHYNIRQLWIEAPQPFTRIVKKGSGPTQEMQTLQLGNPTDLQREMEGHLPSKLTNITFSGPQFTNLNERILRGMRSPYLYMQLFNTSLQALPPNFFKYMGRVRNISLDIRYHNRNLKKIPNPNTGAVPYLPNSVFLTDLKMSHTDLNCDCDLGWVEFWQRKRRQYICSSQTWTDTVFRTFMNSPCQVYGRHNCDEHDDDLRETRCENKGGQQLMEALKFDLECGWDNANCREAAFVVVMVCVAMVFWM |
| 67 | sp|P01731|CD8A\_MOUSE | MASPLTRFLSLNLLLLGESIILGSGEAKPQAPELRIFPKKMDAELGQKVDLVCEVLGSVSQGCSWLFQNSSSKLPQPTFVVYMASSHNKITWDEKLNSSKLFSAMRDTNNKYVLTLNKFSKENEGYYFCSVISNSVMYFSSVVPVLQKVNSTTTKPVLRTPSPVHPTGTSQPQRPEDCRPRGSVKGTGLDFACDIYIWAPLAGICVALLLSLIITLICYHRSRKRVCKCPRPLVRQEGKPRPSEKIV |
| 68 | sp|P40259|CD79B\_HUMAN | MARLALSPVPSHWMVALLLLLSAEPVPAARSEDRYRNPKGSACSRIWQSPRFIARKRGFTVKMHCYMNSASGNVSWLWKQEMDENPQQLKLEKGRMEESQNESLATLTIQGIRFEDNGIYFCQQKCNNTSEVYQGCGTELRVMGFSTLAQLKQRNTLKDGIIMIQTLLIILFIIVPIFLLLDKDDSKAGMEEDHTYEGLDIDQTATYEDIVTLRTGEVKWSVGEHPGQE |
| 69 | sp|Q96CF2|CHM4C\_HUMAN | MSKLGKFFKGGGSSKSRAAPSPQEALVRLRETEEMLGKKQEYLENRIQREIALAKKHGTQNKRAALQALKRKKRFEKQLTQIDGTLSTIEFQREALENSHTNTEVLRNMGFAAKAMKSVHENMDLNKIDDLMQEITEQQDIAQEISEAFSQRVGFGDDFDEDELMAELEELEQEELNKKMTNIRLPNVPSSSLPAQPNRKPGMSSTARRSRAASSQRAEEEDDDIKQLAAWAT |
| 70 | sp|F4K5T2|CGL\_ARATH | MEDRVLIKNDVTELIGNTPMVYLNKIVDGCVARIAAKLEMMEPCSSIKDRIAYSMIKDAEDKGLITPGKSTLIEATGGNTGIGLASIGASRGYKVILLMPSTMSLERRIILRALGAEVHLTDISIGIKGQLEKAKEILSKTPGGYIPHQFINPENPEIHYRTTGPEIWRDSAGKVDILVAGVGTGGTVTGTGKFLKEKNKDIKVCVVEPSESAVLSGGKPGPHLIQGIGSGEIPANLDLSIVDEIIQVTGEEAIETTKLLAIKEGLLVGISSGASAAAALKVAKRPENVGKLIVVIFPSGGERYLSTELFESVRYEAENLPVE |
| 71 | sp|Q9JIX5|CHD8\_RAT | MADPIMDLFDDPNLFGLDSLTDDSFNQVTQDPIEEALGLPSSLDSLDQMNQDGGSGDVGNSSASDLVPPPEETASTELPKESTAPAPESLTLHDYTTQPTSQEQPAQPVLQTSTPTSGLLQVSKSQEILSQGNPFMGVSATAVSPSNTGGQPSQSAPKIVILKAPPNSSVTGAHVAQIQAQGITSTAQPLVAGTANGGKVTFTKVLTGTPLRPGVSIVSGNTVLATKVPGNQAAVQRIVQPSRPVKQLVLQPVKGSAPAGNPGATGPPLKPAVTLTSTPAQGESKRITLVLQQPQSGGPQGHRHVVLGSLPGKIVLQGNQLAALTQAKSAQGQPAKVVTIQLQVQQPQQKIQIVPQPPSSQPQPQPPPSAQPLTLSSVQQAQIMGPGQNPGQRLSVPLKMVLQPQAGSSQGASSGLSVVKVLSASEVAALSSPASCAPHTAGKTGMEENRRLEHQKKQEKANRIVAEAIARARARGEQNIPRVLNEDELPSVRPEEEGEKKRRKKSSGERLKEEKPKKSKTAAASKTKGKSKLNTITPVVGKKRKRNTSSDNSDVEVMPAQSPREDEESSIQKRRSNRQVKRKKYTEDLDIKITDDEEEEEVDVTGPIKPEPILPEPVPEPDGETLPSMQFFVENPSEEDAAIVDKVLSMRVVKKELPSGQYTEAEEFFVKYKNYSYLHCEWATISQLEKDKRIHQKLKRFKTKMAQMRHFFHEDEEPFNPDYVEVDRILDESHSVDKDNGEPVIYYLVKWCSLPYEDSTWELKEDVDEGKIREFKRIQSRHPELKRVNRPQANAWKKLELSHEYKNRNQLREYQLEGVNWLLFNWYNRQNCILADEMGLGKTIQSIAFLQEVYNVGIHGPFLVIAPLSTITNWEREFNTWTEMNTIVYHGSLASRQMIQQYEMYCKDSRGRLIPGAYKFDALITTFEMILSDCPELREIEWRCVIIDEAHRLKNRNCKLLDSLKHMDLEHKVLLTGTPLQNTVEELFSLLHFLEPSQFPSESEFLKDFGDLKTEEQVQKLQAILKPMMLRRLKEDVEKNLAPKQETIIEVELTNIQKKYYRAILEKNFSFLSKGAGHTNMPNLLNTMMELRKCCNHPYLINGAEEKILMEFREACHIIPQDFHLQAMVRSAGKLVLIDKLLPKLKAGGHKVLIFSQMVRCLDILEDYLIQRRYLYERIDGRVRGNLRQAAIDRFSKPDSDRFVFLLCTRAGGLGINLTAADTCIIFDSDWNPQNDLQAQARCHRIGQSKAVKVYRLITRNSYEREMFDKASLKLGLDKAVLQSMSGRDGNITGIQQFSKKEIEDLLRKGAYAAIMEEDDEGSKFCEEDIDQILLRRTTTITIESEGKGSTFAKASFVASENRTDISLDDPNFWQKWAKKADLDMDLLNSKNNLVIDTPRVRKQTRHFSTLKDDDLVEFSDLESEDDERPRSRRHDRHHTYGRTDCFRVEKHLLVYGWGRWRDILSHGRFKRRMTERDVETICRAILVYCLLHYRGDENIKSFIWDLISPAENGKTKELQNHSGLSIPVPRGRKGKKVKSQSTFDIHKADWIRKYNPDTLFQDESYKKHLKHQCNKVLLRVRMLYYLRQEVIGDQAEKVLGGAIASEIDIWFPVVDQLEVPTTWWDSEADKSLLIGVFKHGYEKYNTMRADPALCFLEKAGRPDDKAIAAEHRVLDNFSDLVEGIDFDKDCEDPEYKPLQGPPKDPDDEGDPLMMMDEEISVIDGDEAPVTQQPGHLFWPPGSALTARLRRLVTAYQRSYKREQMKIEAAERGDRRRRRCEAAFKLKEIARREKQQRWTRREQTDFYRVVSTFGVEYDPDNMQFHWDRFRTFARLDKKTDESLTKYFHGFVAMCRQVCRLPPAAGDEPPDPNLFIEPITEERASRTLYRIELLRRLREQVLCHPLLEDRLALCQPPGLELPKWWEPVRHDGELLRGAARHGVSQTDCNIMQDPDFSFLAARMNYMQNHQAGASAASLSRCSTPLLHQQCTSRTASPSPLRPDVPAEKSPEENAVQVPSLDSLTLKLEDEVVARSRLTPQDYEIRVASSDTAPLSRSVPPVKLEDDDDSDSELDLSKLSPSSSSSSSSSSSSSSSDESEDEKEEKLTADRSRPKLYDEESLLSLTMSQDGFPNEDGEQMTPELLLLQERQRASEWPKDRVLINRIDLVCQAVLSGKWPSNRRSQEMTTGGILGPGNHLLDSPSLTPGEYGDSPVPTPRSSSAASMVEEEASAVTTAAAQFTKLRRGMDEKEFTVQIKDEEGLKLTFQKHRLMANGVMGDGHPLFHKKKGNRKKLVELEVECMEEPNHLDVDLETRIPVINKVDGTLLVGDEAPRRAELDMWLQGHPEFAVDPRFLAYMEERRKQKWQRCKKNNKTELNCLGMEPVQPANSRNGKKGHYAETAFNRVLPGPIAPENSKKRVRRTRPDLSKMMALMQGGSTGSLSLHNTFQHSSSNLQSVSSLGHSSATSASLPFMPFVMGGAAAPPHVDSSTMLHHHHHHPHPHHHHHHHPGLRTTGYPSSPATTTSGTALRLPTLQHEDDDEEEDEDDDDLSQGYDSSERDFSLIDDPMMPANSDSSDDADD |
| 72 | sp|P26362|CFTR\_SQUAC | MQRSPIEKANAFSKLFFRWPRPILKKGYRQKLELSDIYQIPSSDSADELSEMLEREWDRELATSKKNPKLVNALRRCFFWRFLFYGILLYFVEFTKAVQPLCLGRIIASYNAKNTYEREIAYYLALGLCLLFVVRTLFLHPAVFGLQHLGMQMRIALFSLIYKKILKMSSRVLDKIDTGQLVSLLSNNLNKFDEGVAVAHFVWIAPVQVVLLMGLIWNELTEFVFCGLGFLIMLALFQAWLGKKMMQYRDKRAGKINERLAITSEIIDNIQSVKVYCWEDAMEKIIDDIRQVELKLTRKVAYCRYFSSSAFFFSGFFVVFLSVVPYAFIHTIKLRRIFTTISYNIVLRMTVTRQFPSAIQTWYDSLGAIRKIQDFLHKDEHKTVEYNLTTKEVEMVNVTASWDEGIGELFEKVKQNDSERKMANGDDGLFFSNFSLHVTPVLKNISFKLEKGELLAIAGSTGSGKSSLLMMIMGELEPSDGKIKHSGRISYSPQVPWIMPGTIKDNIIFGLSYDEYRYTSVVNACQLEEDITVFPNKDKTVLGDGGITLSGGQRARISLARALYKDADLYLLDSPFSHLDVTTEKDIFESCLCKLMVNKTRILVTSKLEHLKKADKILLLHEGHCYFYGTFSELQGEKPDFSSQLLGSVHFDSFSAERRNSILTETFRRCSVSSGDGAGLGSYSETRKASFKQPPPEFNEKRKSSLIVNPITSNKKFSLVQTAMSYPQTNGMEDATSEPGERHFSLIPENELGEPTKPRSNIFKSELPFQAHRRQSVLALMTHSSTSPNKIHARRSAVRKMSMLSQTNFASSEIDIYSRRLSEDGSFEISEEINEEDLKECFADEEEIQNVTTTWSTYLRYVTTNRNLVFVLILCLVIFLAEVAASLAGLWIISGLAINTGSQTNDTSTDLSHLSVFSKFITNGSHYYIFYIYVGLADSFLALGVIRGLPLVHTLVTVSKDLHKQMLHSVLQGPMTAFNKMKAGRILNRFIKDTAIIDDMLPLTVFDFVQLILIVVGAICVVSVLQPYTLLAAIPVAVIFIMLRAYFLRTSQQLKQLESEARSPIFSHLITSLRGLWTVRAFGRQSYFETLFHKALNLHTANWFLYLSTLRWFQMRIDIVFVLFFIAVTFIAIATHDVGEGQVGIILTLAMNITSTLQWAVNSSIDVDGLMRSVSRVFKYIDIPPEGSETKNRHNANNPSDVLVIENKHLTKEWPSGGQMMVNNLTAKYTSDGRAVLQDLSFSVNAGQRVGLLGRTGAGKSTLLSALLRLLSTEGEIQIDGISWNSVSLQKWRKAFGVIPQKVFVFSGTFRKNLDPYEQWSDEEIWKVTEEVGLKSMIEQFPDKLNFVLVDGGYILSNGHKQLMCLARSILSKAKILLLDEPTAHLDPVTFQIIRKTLKHTFSNCTVILSEHRVEALLECQQFLVIEGCSVKQFDALQKLLTEASLFKQVFGHLDRAKLFTAHRRNSSKRKTRPKISALQEEAEEDLQETRL |
| 73 | sp|Q9BWV3|CDAC1\_HUMAN | MKEAGQMQNLESARAGRSVSTQTGSMTGQIPRLSKVNLFTLLSLWMELFPAEAQRQKSQKNEEGKHGPLGDNEERTRVSTDKRQVKRTGLVVVKNMKIVGLHCSSEDLHAGQIALIKHGSRLKNCDLYFSRKPCSACLKMIVNAGVNRISYWPADPEISLLTEASSSEDAKLDAKAVERLKSNSRAHVCVLLQPLVCYMVQFVEETSYKCDFIQKITKTLPDANTDFYYECKQERIKEYEMLFLVSNEEMHKQILMTIGLENLCENPYFSNLRQNMKDLILLLATVASSVPNFKHFGFYRSNPEQINEIHNQSLPQEIARHCMVQARLLAYRTEDHKTGVGAVIWAEGKSRSCDGTGAMYFVGCGYNAFPVGSEYADFPHMDDKQKDREIRKFRYIIHAEQNALTFRCQEIKPEERSMIFVTKCPCDECVPLIKGAGIKQIYAGDVDVGKKKADISYMRFGELEGVSKFTWQLNPSGAYGLEQNEPERRENGVLRPVPQKEEQHQDKKLRLGIH |
| 74 | sp|P37794|CHBG\_ECOLI | MERLLIVNADDFGLSKGQNYGIIEACRNGIVTSTTALVNGQAIDHAVQLSRDEPSLAIGMHFVLTMGKPLTAMPGLTRDGVLGKWIWQLAEEDALPLEEITQELVSQYLRFIELFGRKPTHLDSHHHVHMFPQIFPIVARFAAEQGIALRADRQMAFDLPVNLRTTQGFSSAFYGEEISESLFLQVLDDAGHRGDRSLEVMCHPAFIDNTIRQSAYCFPRLTELDVLTSASLKGAIAQRGYRLGSYRDV |
| 75 | sp|P43618|CENPT\_YEAST | MSTPRKAAGNNENTEVSEIRTPFRERALEEQRLKDEVLIRNTPGYRKLLSASTKSHDILNKDPNEVRSFLQDLSQVLARKSQGNDTTTNKTQARNLIDELAYEESQPEENELLRSRSEKLTDNNIGNETQPDYTSLSQTVFAKLQERDKGLKSRKIDPIIIQDVPTTGHEDELTVHSPDKANSISMEVLRTSPSIGMDQVDEPPVRDPVPISITQQEEPLSEDLPSDDKEETEEAENEDYSFENTSDENLDDIGNDPIRLNVPAVRRSSIKPLQIMDLKHLTRQFLNENRIILPKQTWSTIQEESLNIMDFLKQKIGTLQKQELVDSFIDMGIINNVDDMFELAHELLPLELQSRIESYLF |
| 76 | sp|P23572|CDK1\_DROME | MEDFEKIEKIGEGTYGVVYKGRNRLTGQIVAMKKIRLESDDEGVPSTAIREISLLKELKHENIVCLEDVLMEENRIYLIFEFLSMDLKKYMDSLPVDKHMESELVRSYLYQITSAILFCHRRRVLHRDLKPQNLLIDKSGLIKVADFGLGRSFGIPVRIYTHEIVTLWYRAPEVLLGSPRYSCPVDIWSIGCIFAEMATRKPLFQGDSEIDQLFRMFRILKTPTEDIWPGVTSLPDYKNTFPCWSTNQLTNQLKNLDANGIDLIQKMLIYDPVHRISAKDILEHPYFNGFQSGLVRN |
| 77 | sp|Q9LJI2|CCX3\_ARATH | MSAVSFLYSSKTPKFRGVFNGICALVLFCFFFDRSELLRNPLLRNASFVNGGSGSTSGGITQFMVIRRNARQIETNGSGNNSSLSSSSTVLCSGLHKHMGYADQCEFLKANPICSPDGFFDYLSFFYCSCRDFSILGYMMLGVWLVALFYLLGNTAADYFCCSLEKLSKLLRLPPTVAGVTLLPLGNGAPDVFASIAAFVGTDKGEVGLNSVLGGAVFVTSVVVGIVSLCVADKEVKIDKNCFIRDLSFFLFSLVSLLVILMVGRVTVRIAIAFVSIYVVYAFLVAANVILRKHAKRFKLEALTPLLPMQGSVFSPSVGEDMPMNTPLIETETEDGPPRLQSLPQWMWASNVAIYSNHFAKVSVHDEDRPPWGWIDDTAEVESSSCTKFTSLLEIPLTIPRRLTIPSVEEDTWSKTYAVASVSLAPVLLASLWSSQDDVSLQACGVAYFFSVVIGSTLGFLAYKNTEPDHPPRRFLIPWVLGGFIMSIVWFYMIANELVALLVTFGEIYGINPSILALTVLAWGNSMGDLVSNIALTMNGGDGVQIALSGCYAGPMFNTLVGLGMSMLFGAWSKSPDTYMLPEDKSLFYTLGFLVLGLVWAMVILPRNDMQPSRTLGVGLIAIYLIFVTFRLSCAMGFIPWAA |
| 78 | sp|Q07002|CDK18\_HUMAN | MIMNKMKNFKRRFSLSVPRTETIEESLAEFTEQFNQLHNRRNENLQLGPLGRDPPQECSTFSPTDSGEEPGQLSPGVQFQRRQNQRRFSMEDVSKRLSLPMDIRLPQEFLQKLQMESPDLPKPLSRMSRRASLSDIGFGKLETYVKLDKLGEGTYATVFKGRSKLTENLVALKEIRLEHEEGAPCTAIREVSLLKNLKHANIVTLHDLIHTDRSLTLVFEYLDSDLKQYLDHCGNLMSMHNVKIFMFQLLRGLAYCHHRKILHRDLKPQNLLINERGELKLADFGLARAKSVPTKTYSNEVVTLWYRPPDVLLGSTEYSTPIDMWGVGCIHYEMATGRPLFPGSTVKEELHLIFRLLGTPTEETWPGVTAFSEFRTYSFPCYLPQPLINHAPRLDTDGIHLLSSLLLYESKSRMSAEAALSHSYFRSLGERVHQLEDTASIFSLKEIQLQKDPGYRGLAFQQPGRGKNRRQSIF |
| 79 | sp|P98191|CDS1\_MOUSE | MLELRHRGGCPGPGGAGAPPPREGEAAGGDHETESTSDKETDIDDRYGDLDARGDSDVPEVPPSSDRTPEILKKALSGLSSRWKNWWIRGILTLTMISLFFLIIYMGSFMLMLLVLGIQVKCFHEIITIGYRVYHSYDLPWFRTLSWYFLLCVNYFFYGETVADYFATFVQREEQLQFLIRYHRFISFALYLAGFCMFVLSLVKKHYRLQFYMFAWTHVTLLITVTQSHLVIQNLFEGMIWFLVPISSVICNDITAYLFGFFFGRTPLIKLSPKKTWEGFIGGFFSTVIFGFIAAYVLSKYQYFVCPVEYRSDVNSFVTECEPSELFQLQNYSLPPFLQAVLSRETVSLYPFQIHSIALSTFASLIGPFGGFFASGFKRAFKIKDFANTIPGHGGIMDRFDCQYLMATFVHVYITSFIRGPNPSKVLQQLLVLQPEQQLNIYRTLKIHLTEKGILQPTLKV |
| 80 | sp|Q5T280|CI114\_HUMAN | MAERGRKRPCGPGEHGQRIEWRKWKQQKKEEKKKWKDLKLMKKLERQRAQEEQAKRLEEEEAAAEKEDRGRPYTLSVALPGSILDNAQSPELRTYLAGQIARACAIFCVDEIVVFDEEGQDAKTVEGEFTGVGKKGQACVQLARILQYLECPQYLRKAFFPKHQDLQFAGLLNPLDSPHHMRQDEESEFREGIVVDRPTRPGHGSFVNCGMKKEVKIDKNLEPGLRVTVRLNQQQHPDCKTYHGKVVSSQDPRTKAGLYWGYTVRLASCLSAVFAEAPFQDGYDLTIGTSERGSDVASAQLPNFRHALVVFGGLQGLEAGADADPNLEVAEPSVLFDLYVNTCPGQGSRTIRTEEAILISLAALQPGLIQAGARHT |
| 81 | sp|P34556|CDK1\_CAEEL | MDPIREGEVAHEGDSVYTLNDFTKLEKIGEGTYGVVYKGKNRRTNAMVAMKKIRLESEDEGVPSTAVREISLLKELQHPNVVGLEAVIMQENRLFLIFEFLSFDLKRYMDQLGKDEYLPLETLKSYTFQILQAMCFCHQRRVIHRDLKPQNLLVDNNGAIKLADFGLARAIGIPIRVYTHEVVTLWYRAPEILMGAQRYSMGVDMWSIGCIFAEMATKKPLFQGDSEIDELFRIFRVLGTPTELEWNGVESLPDYKATFPKWRENFLRDKFYDKKTGKHLLDDTAFSLLEGLLIYDPSLRLNAKKALVHPYFDNMDTSKLPAGNYRGELELF |
| 82 | sp|Q96M91|CFA53\_HUMAN | MYSQRFGTVQREVKGPTPKVVIVRSKPPKGQGAEHHLERIRRSHQKHNAILASIKSSERDRLKAEWDQHNDCKILDSLVRARIKDAVQGFIINIEERRNKLRELLALEENEYFTEMQLKKETIEEKKDRMREKTKLLKEKNEKERQDFVAEKLDQQFRERCEELRVELLSIHQKKVCEERKAQIAFNEELSRQKLVEEQMFSKLWEEDRLAKEKREAQEARRQKELMENTRLGLNAQITSIKAQRQATQLLKEEEARLVESNNAQIKHENEQDMLKKQKAKQETRTILQKALQERIEHIQQEYRDEQDLNMKLVQRALQDLQEEADKKKQKREDMIREQKIYHKYLAQRREEEKAQEKEFDRILEEDKAKKLAEKDKELRLEKEARRQLVDEVMCTRKLQVQEKLQREAKEQEERAMEQKHINESLKELNCEEKENFARRQRLAQEYRKQLQMQIAYQQQSQEAEKEEKRREFEAGVAANKMCLDKVQEVLSTHQVLPQNIHPMRKACPSKLPP |
| 83 | sp|P51683|CCR2\_MOUSE | MEDNNMLPQFIHGILSTSHSLFTRSIQELDEGATTPYDYDDGEPCHKTSVKQIGAWILPPLYSLVFIFGFVGNMLVIIILIGCKKLKSMTDIYLLNLAISDLLFLLTLPFWAHYAANEWVFGNIMCKVFTGLYHIGYFGGIFFIILLTIDRYLAIVHAVFALKARTVTFGVITSVVTWVVAVFASLPGIIFTKSKQDDHHYTCGPYFTQLWKNFQTIMRNILSLILPLLVMVICYSGILHTLFRCRNEKKRHRAVRLIFAIMIVYFLFWTPYNIVLFLTTFQESLGMSNCVIDKHLDQAMQVTETLGMTHCCINPVIYAFVGEKFRRYLSIFFRKHIAKRLCKQCPVFYRETADRVSSTFTPSTGEQEVSVGL |
| 84 | sp|P28907|CD38\_HUMAN | MANCEFSPVSGDKPCCRLSRRAQLCLGVSILVLILVVVLAVVVPRWRQQWSGPGTTKRFPETVLARCVKYTEIHPEMRHVDCQSVWDAFKGAFISKHPCNITEEDYQPLMKLGTQTVPCNKILLWSRIKDLAHQFTQVQRDMFTLEDTLLGYLADDLTWCGEFNTSKINYQSCPDWRKDCSNNPVSVFWKTVSRRFAEAACDVVHVMLNGSRSKIFDKNSTFGSVEVHNLQPEKVQTLEAWVIHGGREDSRDLCQDPTIKELESIISKRNIQFSCKNIYRPDKFLQCVKNPEDSSCTSEI |
| 85 | sp|P47774|CCR7\_MOUSE | MDPGKPRKNVLVVALLVIFQVCFCQDEVTDDYIGENTTVDYTLYESVCFKKDVRNFKAWFLPLMYSVICFVGLLGNGLVILTYIYFKRLKTMTDTYLLNLAVADILFLLILPFWAYSEAKSWIFGVYLCKGIFGIYKLSFFSGMLLLLCISIDRYVAIVQAVSAHRHRARVLLISKLSCVGIWMLALFLSIPELLYSGLQKNSGEDTLRCSLVSAQVEALITIQVAQMVFGFLVPMLAMSFCYLIIIRTLLQARNFERNKAIKVIIAVVVVFIVFQLPYNGVVLAQTVANFNITNSSCETSKQLNIAYDVTYSLASVRCCVNPFLYAFIGVKFRSDLFKLFKDLGCLSQERLRHWSSCRHVRNASVSMEAETTTTFSP |
| 86 | sp|O96433|CCNT\_DROME | MSLLATPMPQAATASSSSSASAAASASGIPITANNNLPFEKDKIWYFSNDQLANSPSRRCGIKGDDELQYRQMTAYLIQEMGQRLQVSQLCINTAIVYMHRFYAFHSFTHFHRNSMASASLFLAAKVEEQPRKLEHVIRAANKCLPPTTEQNYAELAQELVFNENVLLQTLGFDVAIDHPHTHVVRTCQLVKACKDLAQTSYFLASNSLHLTSMCLQYRPTVVACFCIYLACKWSRWEIPQSTEGKHWFYYVDKTVSLDLLKQLTDEFIAIYEKSPARLKSKLNSIKAIAQGASNRTANSKDKPKEDWKITEMMKGYHSNITTPPELLNGNDSRDRDRDRERERERERDPSSLLPPPAMVPQQRRQDGGHQRSSSVSGVPGSSSSSSSSSHKMPNYPGGMPPDAHTDHKSKQPGYNNRMPSSHQRSSSSGLGSSGSGSQRSSSSSSSSSQQPGRPSMPVDYHKSSRGMPPVGVGMPPHGSHKMTSGSKPQQPQQQPVPHPSASNSSASGMSSKDKSQSNKMYPNAPPPYSNSAPQNPLMSRGGYPGASNGSQPPPPAGYGGHRSKSGSTVHGMPPFEQQLPYSQSQSYGHMQQQPVPQSQQQQMPPEASQHSLQSKNSLFSPEWPDIKKEPMSQSQPQPFNGLLPPPAPPGHDYKLNSHPRDKESPKKERLTPTKKDKHRPVMPPVGSGNSSSGSGSSKPMLPPHKKQIPHGGDLLTNPGESGSLKRPNEISGSQYGLNKLDEIDNSNMPREKLRKLDTTTGLPTYPNYEEKHTPLNMSNGIETTPDLVRSLLKESLCPSNASLLKPDALTMPGLKPPAELLEPMPAPATIKKEQGITPMTSLASGPAPMDLEVPTKQAGEIKEESSSKSEKKKKKDKHKHKEKDKSKDKTEKEERKKHKKDKQKDRSGSGGSKDSSLPNEPLKMVIKNPNGSLQAGASAPIKLKISKNKVEPNNYSAAAGLPGAIGYGLPPTTATTTSASIGAAAPVLPPYGAGGGGYSSSGGSSSGGSSKKKHSDRDRDKESKKNKSQDYAKYNGAGGGIFNPLGGAGAAPNMSGGMGAPMSTAVPPSMLLAPTGAVPPSAAGLAPPPMPVYNKK |
| 87 | sp|P10810|CD14\_MOUSE | MERVLGLLLLLLVHASPAPPEPCELDEESCSCNFSDPKPDWSSAFNCLGAADVELYGGGRSLEYLLKRVDTEADLGQFTDIIKSLSLKRLTVRAARIPSRILFGALRVLGISGLQELTLENLEVTGTAPPPLLEATGPDLNILNLRNVSWATRDAWLAELQQWLKPGLKVLSIAQAHSLNFSCEQVRVFPALSTLDLSDNPELGERGLISALCPLKFPTLQVLALRNAGMETPSGVCSALAAARVQLQGLDLSHNSLRDAAGAPSCDWPSQLNSLNLSFTGLKQVPKGLPAKLSVLDLSYNRLDRNPSPDELPQVGNLSLKGNPFLDSESHSEKFNSGVVTAGAPSSQAVALSGTLALLLGDRLFV |
| 88 | sp|P04042|CHEB\_SALTY | MSKIRVLSVDDSALMRQIMTEIINSHSDMEMVATAPDPLVARDLIKKFNPDVLTLDVEMPRMDGLDFLEKLMRLRPMPVVMVSSLTGKGSEVTLRALELGAIDFVTKPQLGIREGMLAYSEMIAEKVRTAARARIAAHKPMAAPTTLKAGPLLSSEKLIAIGASTGGTEAIRHVLQPLPLSSPAVIITQHMPPGFTRSFAERLNKLCQISVKEAEDGERVLPGHAYIAPGDKHMELARSGANYQIKIHDGPPVNRHRPSVDVLFHSVAKHAGRNAVGVILTGMGNDGAAGMLAMYQAGAWTIAQNEASCVVFGMPREAINMGGVSEVVDLSQVSQQMLAKISAGQAIRI |
| 89 | sp|P29016|CD1B\_HUMAN | MLLLPFQLLAVLFPGGNSEHAFQGPTSFHVIQTSSFTNSTWAQTQGSGWLDDLQIHGWDSDSGTAIFLKPWSKGNFSDKEVAELEEIFRVYIFGFAREVQDFAGDFQMKYPFEIQGIAGCELHSGGAIVSFLRGALGGLDFLSVKNASCVPSPEGGSRAQKFCALIIQYQGIMETVRILLYETCPRYLLGVLNAGKADLQRQVKPEAWLSSGPSPGPGRLQLVCHVSGFYPKPVWVMWMRGEQEQQGTQLGDILPNANWTWYLRATLDVADGEAAGLSCRVKHSSLEGQDIILYWRNPTSIGSIVLAIIVPSLLLLLCLALWYMRRRSYQNIP |
| 90 | sp|Q9JMB8|CNTN6\_MOUSE | MRLLWKLVILLPLINSCAGEGRFSRPIFIQEPQDVIFPLDLSRSEIILTCTANGYPSPHYRWKQNGTDIDFGMTYHYRLDGGSLAISSPRTDQDIGIYQCLATNPVGTILSRKAKLQFAYIEDFETKTRSTVSVREGQGVVLLCGPPPHFGELSYAWTFNDSPLYVQEDKRRFVSQDTGNLYFAKVEPSDVGNYTCFVTNKEAHRSVQGPPTPLVLRTDGVMGEYEPKIEVRFPETIQAAKDSSIKLECFALGNPVPDISWKRLDGSPMPGKIKYSKSQAILEIPKFQQEDEGFYECIAGNLRGRNLAKGQLIFYAPPEWEQKIQNTYLSIYDSLFWECKASGNPNPSYTWLKNGQRLNTEERIQIENGTLIITMLNISDSGIYQCAAENKYQTIYANAELRVLASAPDFSKNPIKKISVVQVGGDISIECKPNAFPKASISWKRGTENLKQSKRVLFLEDGSLKICNVTRADAGSYTCVATNQFGNGKSSGGLVVKERTIITVPPSKMDVTVGESIVLPCQVSHDPTMEVLFVWYFNGDIIDLKKGVAHFERIGGESVGDLMIRNIQLGHSGKYLCTVQTTLERLSAVADIIVRGPPGPPEDVKVEHISSTTSQLSWRPGPDNNSPIQIFTIQTRTPFSVGWQAVATVPEILNGQTYNATVVGLSPWVEYEFRVVAGNNIGIGEPSKPSELLRTKASVPNVAPGNINGGGGSRSELVITWEAIPEELQNGEGFGYIVMFRPVGTTAWMKERVALVESSKFIYRNESIMPLSPFEVKVGVYNNEGEGSLSTVTIVYSGEDEPQLAPRGTSVQSFSASEMEVSWNAIAWNRNTGRVLGYEVLYWTDNSKESMIGKIRVSGNVTTKNITGLRANTIYFASVRAYNTAGTGPSSLPVNVTTKKSPPSQPPANIAWKLSNSKLCLNWEHVKTMENESEVLGYKILYRQNRQSKTHILETNNTSAELLVPFEEDYLIEIRTVSDGGDGSSSEEIRIPKMSSLSSTGVQISKPSTQSLSMVGVFYCFAIHPLSR |
| 91 | sp|Q8N0X4|CLYBL\_HUMAN | MALRLLRRAARGAAAAALLRLKASLAADIPRLGYSSSSHHKYIPRRAVLYVPGNDEKKIKKIPSLNVDCAVLDCEDGVAANKKNEARLRIVKTLEDIDLGPTEKCVRVNSVSSGLAEEDLETLLQSRVLPSSLMLPKVESPEEIQWFADKFSFHLKGRKLEQPMNLIPFVETAMGLLNFKAVCEETLKVGPQVGLFLDAVVFGGEDFRASIGATSSKETLDILYARQKIVVIAKAFGLQAIDLVYIDFRDGAGLLRQSREGAAMGFTGKQVIHPNQIAVVQEQFSPSPEKIKWAEELIAAFKEHQQLGKGAFTFQGSMIDMPLLKQAQNTVTLATSIKEK |
| 92 | sp|Q9XJ36|CLPR2\_ARATH | MAVSFNTTLHQPSLSPSCSIKLYSGLKPQSASFLASGYQNLNKEFYGRVYKSLQSGTGKASRSRVKMMPIGTPRVPYRNREEGTWQWVDIWNALYRERVIFIGQNIDEEFSNQILATMLYLDTLDDSRRIYMYLNGPGGDLTPSLAIYDTMKSLKSPVGTHCVGLAYNLAGFLLAAGEKGHRFAMPLSRIALQSPAGAARGQADDIQNEAKELSRIRDYLFNELAKNTGQPAERVFKDLSRVKRFNAEEAIEYGLIDKIVRPPRIKEDAPRQDESAGLG |
| 93 | sp|Q5BJU5|CNIH2\_RAT | MAFTFAAFCYMLTLVLCASLIFFVIWHIIAFDELRTDFKNPIDQGNPARARERLKNIERICCLLRKLVVPEYSIHGLFCLMFLCAAEWVTLGLNIPLLFYHLWRYFHRPADGSEVMYDAVSIMNADILNYCQKESWCKLAFYLLSFFYYLYSMVYTLVSF |
| 94 | sp|Q64739|COBA2\_MOUSE | MERCSRCHRLLLFLPLVLGLSAAPGWAGAPSVDVLRALRFPSLPDGVRRSKGVCPGDVAYRVARPAQLSAPTRQLFPGGFPKDFSLLTVVRTRPGLQAPLLTLYSAQGVQQLGLELGRPVRFLYEDQRGRPQASAQPIFRGLSLADGKWHHVAVAVKGQSVTLIVDCKKRVTRPLPRSVHPVLDTHGVVIFGAHILDDEVFEGDVQELLVVPGVQAAYQSCGQKDLECEREQRDGPQTQKPHRAQRSPKKEPARLHKPQSQEPQKQPTESLYYDYEPPYYDVMTTGTAPDYQYPTPGEEEGVLESSPLPFLEEEQTDLQVSPTADSFQAEEYGEGGTDSPAGFYDYTYGYGDDYREETELGPALSAETAHSGAVAHGPRGLKGEKGEPAVLEPGMFVEGPPGPEGPAGLAGPPGIQGNPGPVGDPGERGPPGRAGLPGSDGPPGPPGTSLMLPFRFGSSGGDKGPVVAAQEAQAQAILQQARLALRGPPGPMGYTGRPGPLGQPGSPGLKGESGDLGPQGPRGPQGLTGPPGKAGRRGRAGADGARGMPGEPGMKGDRGFDGLPGLPGEKGQRGDTGAQGLPGPPGEDGERGDDGEIGPRGLPGESGPRGLLGPKGPPGIPGPPGVRGMDGPHGPKGSLGPQGEPGPPGQQGTPGAQGLPGPQGAIGPHGEKGARGKPGLPGMPGSDGLPGHPGKEGPPGTKGNQGPSGPQGPLGYPGPRGVKGVDGIRGLKGHKGEKGEDGFPGFKGDIGVKGDRGEVGVPGSRGEDGPEGPKGRTGPTGDPGPTGLMGEKGKLGVPGLPGYPGRQGPKGSLGFPGFPGASGEKGARGLSGKSGPRGERGPTGPRGQRGPRGATGKSGAKGTSGGDGPHGPPGERGLPGPQGPNGFPGPKGPPGPAGKDGLPGHPGQRGEVGFQGKTGPPGPPGVVGPQGTAGESGPMGERGHSGPPGPPGEQGLPGTSGKEGTKGDPGPPGAPGKDGPAGLRGFPGERGLPGTAGGPGLKGNEGPAGPPGPAGSPGERGAAGSGGPIGPPGRPGPQGPPGAAGEKGVPGEKGPIGPTGRDGVQGPVGLPGPAGPPGVAGEDGDKGEVGDPGQKGTKGNKGEHGPPGPPGPIGPVGQPGAAGADGEPGARGPQGHFGAKGDEGTRGFNGPPGPIGLQGLPGPSGEKGETGDGGPMGPPGPPGPRGPAGPNGADGPQGSPGGVGNLGPPGEKGEPGESGSPGVQGEPGVKGPRGERGEKGESGQAGEAGPPGPKGPTGDNGPKGNPGPVGFPGDPGPPGEAGPRGQDGAKGDRGEDGEPGQPGSPGPTGENGPPGPLGKRGPAGTPGPEGRQGEKGAKGDPGAVGAPGKTGPVGPAGLAGKPGPDGLRGLPGSVGQQGRPGATGQAGPPGPVGPPGLPGLRGDAGAKGEKGHPGLIGLIGPTGEQGEKGDRGLPGPQGSPGQKGETGIPGASGPIGPGGPPGLPGPSGPKGAKGATGPAGPKGEKGVQGPPGHPGPPGEVIQPLPIQMPKKTRRSVDGSKLIQDEEAVPTGGAPGSPAGLEEIFGSLDSLREEIEQMRRPAGTQDSPARTCQDLKLCHPELPDGEYWVDPNQGCARDAFRVFCNFTAGGETCVTPRDDVTQFSYVDSEGSPVGVVQLTFLRLLSVSAHQDVSYPCSGVSQDGPLKLRGANEDELSPETSPYVKEFRDGCQTQQGRTVLEVRTPVLEQLPVLDASFADLGAPTRRGGVLLGPVCFMG |
| 95 | sp|O75128|COBL\_HUMAN | MDAPRASAAKPPTGRKMKARAPPPPGKAATLHVHSDQKPPHDGALGSQQNLVRMKEALRASTMDVTVVLPSGLEKRSVLNGSHAMMDLLVELCLQNHLNPSHHALEIRSSETQQPLSFKPNTLIGTLNVHTVFLKEKVPEEKVKPGPPKVPEKSVRLVVNYLRTQKAVVRVSPEVPLQNILPVICAKCEVSPEHVVLLRDNIAGEELELSKSLNELGIKELYAWDNRRETFRKSSLGNDETDKEKKKFLGFFKVNKRSNSKGCLTTPNSPSMHSRSLTLGPSLSLGSISGVSVKSEMKKRRAPPPPGSGPPVQDKASEKVSLGSQIDLQKKKRRAPAPPPPQPPPPSPLIPNRTEDKEENRKSTMVSLPLGSGSHCSPDGAPQVLSEAEETVSVGSCFASEDTTEDSGVMSSPSDIVSLDSQQDSMKYKDKWATDQEDCSDQDLAGTPDLGPQKSPLWEKNGSENSHLRTEKAVTASNDEEDLLIAGEFRKTLAELDEDLEEMEDSYETDTSSLTSSIHGASNHCPQDAMIPHGDTDAIPVTFIGEVSDDPVDSGLFSNRNNNAGSFDSEGVASRRDSLAPLQAEHSQPHEKAREEVPALHPASHDVGKGIRVALSNISKDGNLMETAPRVTSFASNLHTDNLNAKVKDKVYGCADGERTQATERVNSQPVNEKDSNDKNAALAPTSWHQRGQNPGKSYRLKHGLTTYKIIPPKSEMRCYDRDVSLSTGAIKIDELGNLVSPHATGIRIISLSSSVPEAESQPIGKVREFWRCNSVEKHLGRPSESSARGPPSTPVPTQTQNPESRLQADPKPISPQQKSAHHEGRNPLGEGRNQPPTMGMGHVRVPAAHTTEVTFLKPQRRTSSQYVASAIAKRIGAPKVHADVVRPHGYAEKGYAGKAPVLAAPPVTVKDDRTSSPHSETQGWKDGAQWPCVTPPNNHGEDLAVGAPPRGEVIGPHRKLSTQDRPAAIHRSSCFSLVQSSQRDRVSVGQSCGFSGKQSTSSQEASSASEPRRAPDGTDPPPPHTSDTQACSRELVNGSVRAPGHGEPSHPPGGSGTESHILLEREEKPSVFSTDGNETDSIWPPSIFGPKKKFKPVVQRPVPKDTSLHSALMEAIHSAGGKDRLRKTAEHTGEGRPAKLSYTEAEGERSALLAAIRGHSGTCSLRKVASSASEELQSFRDAALSAQGSESPLLEDLGLLSPPAIPPPPPPPSQALSAPRTASRFSTGTLSNTADARQALMDAIRSGTGAARLRKVPLLV |
| 96 | sp|Q9UIV1|CNOT7\_HUMAN | MPAATVDHSQRICEVWACNLDEEMKKIRQVIRKYNYVAMDTEFPGVVARPIGEFRSNADYQYQLLRCNVDLLKIIQLGLTFMNEQGEYPPGTSTWQFNFKFNLTEDMYAQDSIELLTTSGIQFKKHEEEGIETQYFAELLMTSGVVLCEGVKWLSFHSGYDFGYLIKILTNSNLPEEELDFFEILRLFFPVIYDVKYLMKSCKNLKGGLQEVAEQLELERIGPQHQAGSDSLLTGMAFFKMREMFFEDHIDDAKYCGHLYGLGSGSSYVQNGTGNAYEEEANKQS |
| 97 | sp|P02748|CO9\_HUMAN | MSACRSFAVAICILEISILTAQYTTSYDPELTESSGSASHIDCRMSPWSEWSQCDPCLRQMFRSRSIEVFGQFNGKRCTDAVGDRRQCVPTEPCEDAEDDCGNDFQCSTGRCIKMRLRCNGDNDCGDFSDEDDCESEPRPPCRDRVVEESELARTAGYGINILGMDPLSTPFDNEFYNGLCNRDRDGNTLTYYRRPWNVASLIYETKGEKNFRTEHYEEQIEAFKSIIQEKTSNFNAAISLKFTPTETNKAEQCCEETASSISLHGKGSFRFSYSKNETYQLFLSYSSKKEKMFLHVKGEIHLGRFVMRNRDVVLTTTFVDDIKALPTTYEKGEYFAFLETYGTHYSSSGSLGGLYELIYVLDKASMKRKGVELKDIKRCLGYHLDVSLAFSEISVGAEFNKDDCVKRGEGRAVNITSENLIDDVVSLIRGGTRKYAFELKEKLLRGTVIDVTDFVNWASSINDAPVLISQKLSPIYNLVPVKMKNAHLKKQNLERAIEDYINEFSVRKCHTCQNGGTVILMDGKCLCACPFKFEGIACEISKQKISEGLPALEFPNEK |
| 98 | sp|O04209|CLC2\_ARATH | MSAFEDDSFVILNDDASESVPVSGSFDATDSFSAFDGSLQVEDSVDDVFAAPSSDYGAYSNGDGIFGSNGDHDGPILPPPSEMESDEGFALREWRRQNAIQLEEKEKREKELLKQIIEEADQYKEEFHKKIEVTCENNKAANREKEKLYLENQEKFYAESSKNYWKAIAELVPKEVPTIEKRRGKKEQQDPKKPTVSVIQGPKPGKPTDLTRMRQILVKLKHNPPSHLKLTSQPPSEEAAAPPKNVPETKPTEAVTAA |
| 99 | sp|Q1ERP8|CLM9\_MOUSE | MRPLVLLWGCLVLPGYEALKGPKEISGFEGDTVSLRCTYVEKMKEHRKYWCRQGGILVSRCGDIVYANQDQEVTRGRMSIRDSPQELSMTVIMRDLTLKDSGKYWCGIDRLGRDESFEVTLIVFPGKRDNAVPAGTCCPSSPTPSFQPLTPTRSLQPKAKAWQTQLPEPRSSRPVVWLPLTTPQDSRAVASSVSKPSVSIPMVRMMAPVLILLSLLLAAGLIAFGSHMLRWRKKAWLATETQKNEKVYLETSLPGNGWTTEDSTIDLAVTPECLRNLNPSAVPSPETQNLSQSTEEEEAARSLDDDKEDVMAPPPLQMSAEELAFSEFISV |
| 100 | sp|Q9XXH8|CNT1\_CAEEL | MTVSNNGMAMPSVPPKIDCSEAIQDSPKFRATVAQHAMYFNRLENRLNEMLRHITAMIDFSKNYTNTFYKLTVSVNQLCDESFSGNPLASTTFQGLSEAYAHTVNLFRTYFDHSNVVTFTKLSNFIKIELTKVAESRAHFENMSQSMDDALVKNASISRQKPADATEGRNALTAVGTCFAHTTLDYVANINIAHAHKDHMILDALWTLVRESSAFFSKGHATFDEWTAADNGAIADTIQTFAAKSKLIERKMQDVHSLVPKEMFQHPSGMPIEPDVMMEGYLYKRSSNAFKTWNRRWFQIKDKQLLYSHRSTDLEPATIMEENLRICLVRPAPSNIDRIGCFELVTPTRIHLLQADSESLCQDWMRALQRTILALHEGDSVDVASTSPRNKTTSMSSGVTLTSANAISPLSNAMDVTKGRSVSDPASTYTSANTSSISTAAGFSSSTTAFEQVRRVPGNEVCADCGSPAPKWVSINLGVVLCIECSGAHRSLGVQTSKVRSLCMDSIDNELRDVLLALGNRQVNEIFLAHLPPADSIVPPQINEKSARPAREAWIKAKYVERRFAVAEDTRARSSATNRQEHLKHKTSIGGNSSSNGVNRSSSYADVQDAESGGLLDADPWSADLSVPVPTASKRLSACGSDTNLDAIGSSSIDTKTVEWDSVKEACECGDLLALMTAYAQGFDLNALHNGTTALHIATRNGQTAAVEFLLLNGAKINMLDEKLNTPLHLAAKEGHTLPVCQLLKRGADSNLANVDSKTPLDIAMECTHADIVTLFRVTIMRNDFNADFNNPMDETVEAVISDIARRAATEKEQKKTESLKSTSDI |
| 101 | sp|O14493|CLD4\_HUMAN | MASMGLQVMGIALAVLGWLAVMLCCALPMWRVTAFIGSNIVTSQTIWEGLWMNCVVQSTGQMQCKVYDSLLALPQDLQAARALVIISIIVAALGVLLSVVGGKCTNCLEDESAKAKTMIVAGVVFLLAGLMVIVPVSWTAHNIIQDFYNPLVASGQKREMGASLYVGWAASGLLLLGGGLLCCNCPPRTDKPYSAKYSAARSAAASNYV |
| 102 | sp|Q96AJ1|CLUA1\_HUMAN | MSFRDLRNFTEMMRALGYPRHISMENFRTPNFGLVSEVLLWLVKRYEPQTDIPPDVDTEQDRVFFIKAIAQFMATKAHIKLNTKKLYQADGYAVKELLKITSVLYNAMKTKGMEGSEIVEEDVNKFKFDLGSKIADLKAARQLASEITSKGASLYDLLGMEVELREMRTEAIARPLEINETEKVMRIAIKEILTQVQKTKDLLNNVASDEANLEAKIEKRKLELERNRKRLETLQSVRPCFMDEYEKTEEELQKQYDTYLEKFQNLTYLEQQLEDHHRMEQERFEEAKNTLCLIQNKLKEEEKRLLKSGSNDDSDIDIQEDDESDSELEERRLPKPQTAMEMLMQGRPGKRIVGTMQGGDSDDNEDSEESEIDMEDDDDEDDDLEDESISLSPTKPNRRVRKSEPLDESDNDF |
| 103 | sp|P49759|CLK1\_HUMAN | MRHSKRTYCPDWDDKDWDYGKWRSSSSHKRRKRSHSSAQENKRCKYNHSKMCDSHYLESRSINEKDYHSRRYIDEYRNDYTQGCEPGHRQRDHESRYQNHSSKSSGRSGRSSYKSKHRIHHSTSHRRSHGKSHRRKRTRSVEDDEEGHLICQSGDVLSARYEIVDTLGEGAFGKVVECIDHKAGGRHVAVKIVKNVDRYCEAARSEIQVLEHLNTTDPNSTFRCVQMLEWFEHHGHICIVFELLGLSTYDFIKENGFLPFRLDHIRKMAYQICKSVNFLHSNKLTHTDLKPENILFVQSDYTEAYNPKIKRDERTLINPDIKVVDFGSATYDDEHHSTLVSTRHYRAPEVILALGWSQPCDVWSIGCILIEYYLGFTVFPTHDSKEHLAMMERILGPLPKHMIQKTRKRKYFHHDRLDWDEHSSAGRYVSRRCKPLKEFMLSQDVEHERLFDLIQKMLEYDPAKRITLREALKHPFFDLLKKSI |
| 104 | sp|P22137|CLH\_YEAST | MSDLPIEFTELVDLMSLGISPQFLDFRSTTFESDHFVTVRETKDGTNSVAIVDLAKGNEVTRKNMGGDSAIMHPSQMVISVRANGTIVQIFNLETKSKLKSFTLDEPVIFWRWLSETTLGFVTARSILTSNVFDGNVNAKPQLLTLRHANLNNTQIINFVANKNLDWFAVVGILQENGRIAGRIQLFSKQRNISQAIDGHVAIFTNILLEGNGSTPVQVFVTGNRNATTGAGELRIIEIDHDASLPSQYQKETTDIFFPPDATNDFPIAVQVSEKYGIIYLLTKYGFIHLYELETGTNLFVNRITAESVFTAAPYNHENGIACINKKGQVLAVEISTSQIVPYILNKLSNVALALIVATRGGLPGADDLFQKQFESLLLQNDYQNAAKVAASSTSLRNQNTINRLKNIQAPPGAISPILLYFSTLLDKGKLNKEETIELARPVLQQDRKQLFEKWLKEDKLECSEELGDIVKPFDTTLALACYLRAGAHAKVISCLAELQQFEKIIPYCQKVGYQPNFLVLISSLIRSSPDRASEFAVSLLQNPETASQIDIEKIADLFFSQNHIQQGTSLLLDALKGDTPDQGHLQTRVLEVNLLHAPQVADAILGNNIFSHYDKPTIASLSEKAGLYQRALENYTDIKDIKRCVVHTNALPIDWLVGYFGKLNVEQSLACLKALMDNNIQANIQTVVQVATKFSDLIGPSTLIKLFEDYNATEGLYYYLASLVNLTEDKDVVYKYIEAAAKMKQYREIERIVKDNNVYDPERVKNFLKDANLEDQLPLVIVCDRFDFVHEMILYLYKSQNLKFIETYVQQVNPSKTAQVVGALLDMDCDEAFIQSLLQSVLGQVPINELTTEVEKRNRLKILLPFLEQSLSQGIQDQAVYNALAKIYIDSNNSPEKFLKENDQYDTLDVGHYCEKRDPYLAYIAYEKGQNDDDLIRITNENSMYKYQARYLLERSDLDLWNKVLNQENIHRRQLIDSVISVGIPELTDPEPVSLTVQAFMTNGLKLELIELLEKIILEPSPFNENVALQGLLLLSAIKYEPTKVSSYIEKLDNYDADEIAPLCIEHDLKEEAFEIYDKHEMYGKALKVLIEDIMSLDRAASYADKINTPELWSQIGTAQLDGLRIPDAIESYIKAEDPSNYENVIDIAEQAGKYEELIPFLLMARKTLKEPKIDGALILAYAELNKIHEIENLLAGSNVANLDHVGDKLFENKEYKAARLCYSAVSNYSKLASTLVYLGDYQAAVDTARKASNIKVWKLVNDACIEKKEFKLAQICGLNLIVHAEELDELVERYESNGYFEELISLFEAGLGLERAHMGMFTELAILYSKYEPDKTFEHLKLFWSRINIPKVIRAVEQAHLWSELVFLYAHYDEWDNAALTLIEKSTKDLDHAYFKEVVVKVSNLEIYYKAINFYVKFHPSLLVDLLTSLTPRLDIPRTVKIFSKSDNLPLIKPFLINVLPKNNSVVNQAYHDLMIEEEDYKALQDAVDSYDKFDQLGLASRLESHKLIFFKKIGALLYRRNKKWAKSLSILKEEKLWKDAIETAAISQDPKVVEALLTYFVETGNREGFVALLYAAYNLVRIEFVLEISWMNSLEDYIKPFEISIKKEQNDSIKKITEELAKKSGSNEEHKDGQPLMLMNSAMNVQPTGF |
| 105 | sp|Q8VHS2|CRUM1\_MOUSE | MKLKRTAYLLFLYLSSSLLICIKNSFCNKNNTRCLSGPCQNNSTCKHFPQDNNCCLDTANNLDKDCEDLKDPCFSSPCQGIATCVKIPGEGNFLCQCPPGYSGLNCETATNSCGGNLCQHGGTCRKDPEHPVCICPPGYAGRFCETDHNECASSPCHNGAMCQDGINGYSCFCVPGYQGRHCDLEVDECVSDPCKNEAVCLNEIGRYTCVCPQEFSGVNCELEIDECRSQPCLHGATCQDAPGGYSCDCAPGFLGEHCELSVNECESQPCLHGGLCVDGRNSYHCDCTGSGFTGMHCESLIPLCWSKPCHNDATCEDTVDSYICHCRPGYTGALCETDINECSSNPCQFWGECVELSSEGLYGNTAGLPSSFSYVGASGYVCICQPGFTGIHCEEDVDECLLHPCLNGGTCENLPGNYACHCPFDDTSRTFYGGENCSEILLGCTHHQCLNNGKCIPHFQNGQHGFTCQCLSGYAGPLCETVTTLSFGSNGFLWVTSGSHTGIGPECNISLRFHTVQPNALLLIRGNKDVSMKLELLNGCVHLSIEVWNQLKVLLSISHNTSDGEWHFVEVTIAETLTLALVGGSCKEKCTTKSSVPVENHQSICALQDSFLGGLPMGTANNSVSVLNIYNVPSTPSFVGCLQDIRFDLNHITLENVSSGLSSNVKAGCLGKDWCESQPCQNRGRCINLWQGYQCECDRPYTGSNCLKEYVAGRFGQDDSTGYAAFSVNDNYGQNFSLSMFVRTRQPLGLLLALENSTYQYVSVWLEHGSLALQTPGSPKFMVNFFLSDGNVHLISLRIKPNEIELYQSSQNLGFISVPTWTIRRGDVIFIGGLPDREKTEVYGGFFKGCVQDVRLNSQTLEFFPNSTNNAYDDPILVNVTQGCPGDNTCKSNPCHNGGVCHSLWDDFSCSCPTNTAGRACEQVQWCQLSPCPPTAECQLLPQGFECIANAVFSGLSREILFRSNGNITRELTNITFAFRTHDTNVMILHAEKEPEFLNISIQDARLFFQLRSGNSFYTLHLMGSQLVNDGTWHQVTFSMIDPVAQTSRWQMEVNDQTPFVISEVATGSLNFLKDNTDIYVGDQSVDNPKGLQGCLSTIEIGGIYLSYFENLHGFPGKPQEEQFLKVSTNMVLTGCLPSNACHSSPCLHGGNCEDSYSSYRCACLSGWSGTHCEINIDECFSSPCIHGNCSDGVAAYHCRCEPGYTGVNCEVDVDNCKSHQCANGATCVPEAHGYSCLCFGNFTGRFCRHSRLPSTVCGNEKRNFTCYNGGSCSMFQEDWQCMCWPGFTGEWCEEDINECASDPCINGGLCRDLVNRFLCICDVAFAGERCELDLADDRLLGIFTAVGSGTLALFFILLLAGVASLIASNKRATQGTYSPSGQEKAGPRVEMWIRMPPPALERLI |
| 106 | sp|G5ECW5|CSP3\_CAEEL | MFFGKLGGFAFFLQRAVRCDGFIDNFFDRIPKFFQFMKSKFPSHQTSSSQADLLVSFSTSPGFLSFKDETKDTWYIQELYRVIIENAKDTHLADLLTETNRRVVEKYEADKVVFVCKQAPEFWSRFTKQLFFMSRNDVF |
| 107 | sp|O00299|CLIC1\_HUMAN | MAEEQPQVELFVKAGSDGAKIGNCPFSQRLFMVLWLKGVTFNVTTVDTKRRTETVQKLCPGGQLPFLLYGTEVHTDTNKIEEFLEAVLCPPRYPKLAALNPESNTAGLDIFAKFSAYIKNSNPALNDNLEKGLLKALKVLDNYLTSPLPEEVDETSAEDEGVSQRKFLDGNELTLADCNLLPKLHIVQVVCKKYRGFTIPEAFRGVHRYLSNAYAREEFASTCPDDEEIELAYEQVAKALK |
| 108 | sp|P11442|CLH1\_RAT | MAQILPIRFQEHLQLQNLGINPANIGFSTLTMESDKFICIREKVGEQAQVVIIDMNDPSNPIRRPISADSAIMNPASKVIALKAGKTLQIFNIEMKSKMKAHTMTDDVTFWKWISLNTVALVTDNAVYHWSMEGESQPVKMFDRHSSLAGCQIINYRTDAKQKWLLLTGISAQQNRVVGAMQLYSVDRKVSQPIEGHAASFAQFKMEGNAEESTLFCFAVRGQAGGKLHIIEVGTPPTGNQPFPKKAVDVFFPPEAQNDFPVAMQISEKHDVVFLITKYGYIHLYDLETGTCIYMNRISGETIFVTAPHEATAGIIGVNRKGQVLSVCVEEENIIPYITNVLQNPDLALRMAVRNNLAGAEELFARKFNALFAQGNYSEAAKVAANAPKGILRTPDTIRRFQSVPAQPGQTSPLLQYFGILLDQGQLNKYESLELCRPVLQQGRKQLLEKWLKEDKLECSEELGDLVKSVDPTLALSVYLRANVPNKVIQCFAETGQVQKIVLYAKKVGYTPDWIFLLRNVMRISPDQGQQFAQMLVQDEEPLADITQIVDVFMEYNLIQQCTAFLLDALKNNRPSEGPLQTRLLEMNLMHAPQVADAILGNQMFTHYDRAHIAQLCEKAGLLQRALEHFTDLYDIKRAVVHTHLLNPEWLVNYFGSLSVEDSLECLRAMLSANIRQNLQIWVQVASKYHEQLSTQSLIELFESFKSFEGLFYFLGSIVNFSQDPDVHFKYIQAACKTGQIKEVERICRESNCYDPERVKNFLKEAKLTDQLPLIIVCDRFDFVHDLVLYLYRNSLQKYIEIYVQKVNPSRLPVVIGGLLDVDCSEDVIKNLILVVRGQFSTDELVAEVEKRNRLKLLLPWLEARIHEGCEEPATHNALAKIYIDSNNNPERFLRENPYYDSRVVGKYCEKRDPHLACVAYERGQCDLELINVCNENSLFKSLSRYLVRRKDPELWGSVLLESNPYRRPLIDQVVQTALSETQDPEEVSVTVKAFMTADLPNELIELLEKIVLDNSVFSEHRNLQNLLILTAIKADRTRVMEYINRLDNYDAPDIANIAISNELFEEAFAIFRKFDVNTSAVQVLIEHIGNLDRAYEFAERCNEPAVWSQLAKAQLQKGMVKEAIDSYIKADDPSSYMEVVQAANTSGNWEELVKYLQMARKKARESYVETELIFALAKTNRLAELEEFINGPNNAHIQQVGDRCYDEKMYDAAKLLYNNVSNFGRLASTLVHLGEYQAAVDGARKANSTRTWKEVCFACVDGKEFRLAQMCGLHIVVHADELEELINYYQDRGYFEELITMLEAALGLERAHMGMFTELAILYSKFKPQKMREHLELFWSRVNIPKVLRAAEQAHLWAELVFLYDKYEEYDNAIITMMNHPTDAWKEGQFKDIITKVANVELYYKAIQFYLEFKPLLLNDLLMVLSPRLAHTRAVNYFSKVKQLPLVKPYLRSVQNHNNKSVNESLNNLFITEEDYQALRTSIDAYDNFDNISLAQRLEKHELIEFRRIAAYLFKGNNRWKQSVELCKKDSLYKDAMQYASESKDTELAEELLQWFLQEEKRECFGACLFTCYDLLRPDVVLETAWRHNIMDFAMPYFIQVMKEYLTKVDKLDASESLRKEEEQATETQPIVYGQPQLMLTAGPSVAVPPQAPFGYGYTAPPYGQPQPGFGYSM |
| 109 | sp|Q8WWK9|CKAP2\_HUMAN | MSTPAVPQDLQLPPSQRAQSAFKEQRRQKLKEHLLRRKTLFAYKQENEMLSSSRDQRVVTSEDQVQEGTKVLKLKTKMADKENMKRPAESKNNTVVGKHCIPLKPSNELTNSTVVIDTHKPKDSNQTPHLLLTEDDPQSQHMTLSQAFHLKNNSKKKQMTTEKQKQDANMPKKPVLGSYRGQIVQSKINSFRKPLQVKDESSAATKKLSATIPKATKPQPVNTSSVTVKSNRSSNMTATTKFVSTTSQNTQLVRPPIRSHHSNTRDTVKQGISRTSANVTIRKGPHEKELLQSKTALSSVKTSSSQGIIRNKTLSRSIASEVIARPASLSNDKLMEKSEPVDQRRHTAGKAIVDSRSAQPKETSEERKARLSEWKAGKGRVLKRPPNSVVTQHEPAGQNEKPVGSFWTTMAEEDEQRLFTEKVNNTFSECLNLINEGCPKEDILVTLNDLIKNIPDAKKLVKYWICLALIEPITSPIENIIAIYEKAILAGAQPIEEMRHTIVDILTMKSQEKANLGENMEKSCASKEEVKEVSIEDTGVDVDPEKLEMESKLHRNLLFQDCEKEQDNKTKDPTHDVKTPNTETRTSCLIKYNVSTTPYLQSVKKKVQFDGTNSAFKELKFLTPVRRSRRLQEKTSKLPDMLKDHYPCVSSLEQLTELGRETDAFVCRPNAALCRVYYEADTT |
| 110 | sp|Q9UGL9|CRCT1\_HUMAN | MSSQQSAVSAKGFSKGSSQGPAPCPAPAPTPAPASSSSCCGSGRGCCGDSGCCGSSSTSCCCFPRRRRRQRSSGCCCCGGGSQRSQRSNNRSSGCCSGC |
| 111 | sp|P47001|CIS3\_YEAST | MQFKNVALAASVAALSATASAEGYTPGEPWSTLTPTGSISCGAAEYTTTFGIAVQAITSSKAKRDVISQIGDGQVQATSAATAQATDSQAQATTTATPTSSEKISSSASKTSTNATSSSCATPSLKDSSCKNSGTLELTLKDGVLTDAKGRIGSIVANRQFQFDGPPPQAGAIYAAGWSITEDGYLALGDSDVFYQCLSGNFYNLYDQNVAEQCSAIHLEAVSLVDC |
| 112 | sp|P35606|COPB2\_HUMAN | MPLRLDIKRKLTARSDRVKSVDLHPTEPWMLASLYNGSVCVWNHETQTLVKTFEVCDLPVRAAKFVARKNWVVTGADDMQIRVFNYNTLERVHMFEAHSDYIRCIAVHPTQPFILTSSDDMLIKLWDWDKKWSCSQVFEGHTHYVMQIVINPKDNNQFASASLDRTIKVWQLGSSSPNFTLEGHEKGVNCIDYYSGGDKPYLISGADDRLVKIWDYQNKTCVQTLEGHAQNVSCASFHPELPIIITGSEDGTVRIWHSSTYRLESTLNYGMERVWCVASLRGSNNVALGYDEGSIIVKLGREEPAMSMDANGKIIWAKHSEVQQANLKAMGDAEIKDGERLPLAVKDMGSCEIYPQTIQHNPNGRFVVVCGDGEYIIYTAMALRNKSFGSAQEFAWAHDSSEYAIRESNSIVKIFKNFKEKKSFKPDFGAESIYGGFLLGVRSVNGLAFYDWDNTELIRRIEIQPKHIFWSDSGELVCIATEESFFILKYLSEKVLAAQETHEGVTEDGIEDAFEVLGEIQEIVKTGLWVGDCFIYTSSVNRLNYYVGGEIVTIAHLDRTMYLLGYIPKDNRLYLGDKELNIISYSLLVSVLEYQTAVMRRDFSMADKVLPTIPKEQRTRVAHFLEKQGFKQQALTVSTDPEHRFELALQLGELKIAYQLAVEAESEQKWKQLAELAISKCQFGLAQECLHHAQDYGGLLLLATASGNANMVNKLAEGAERDGKNNVAFMSYFLQGKVDACLELLIRTGRLPEAAFLARTYLPSQVSRVVKLWRENLSKVNQKAAESLADPTEYENLFPGLKEAFVVEEWVKETHADLWPAKQYPLVTPNEERNVMEEGKDFQPSRSTAQQELDGKPASPTPVIVASHTANKEEKSLLELEVDLDNLELEDIDTTDINLDEDILDD |
| 113 | sp|P10040|CRB\_DROME | MAKIANASLSQQQKQRQAETATTTTTTVAASVETATTTARSRDRTKSAAQITSHLLKRAISVYSSPQWIPLFILIYLATDVASVAVPTKEAYFNGSTYLRLTTPMPIWDHSAISFRSCRGGEILAQQYNKNSIVISVLNDFLQISLAGPAVHGPNNRLDVKLPYQLLDNRWHTLQFKYEYGNLYLHVDRAASIFANSTYNSQFLTNQDIGYKDAILILGNSFSGCLLDGPGLQFVNNSTVQNVVFGHCPLTPGPCSDHDLFTRLPDNFCLNDPCMGHGTCSSSPEGYECRCTARYSGKNCQKDNGSPCAKNPCENGGSCLENSRGDYQCFCDPNHSGQHCETEVNIHPLCQTNPCLNNGACVVIGGSGALTCECPKGYAGARCEVDTDECASQPCQNNGSCIDRINGFSCDCSGTGYTGAFCQTNVDECDKNPCLNGGRCFDTYGWYTCQCLDGWGGEICDRPMTCQTQQCLNGGTCLDKPIGFQCLCPPEYTGELCQIAPSCAQQCPIDSECVGGKCVCKPGSSGYNCQTSTGDGASALALTPINCNATNGKCLNGGTCSMNGTHCYCAVGYSGDRCEKAENCSPLNCQEPMVCVQNQCLCPENKVCNQCATQPCQNGGECVDLPNGDYECKCTRGWTGRTCGNDVDECTLHPKICGNGICKNEKGSYKCYCTPGFTGVHCDSDVDECLSFPCLNGATCHNKINAYECVCQPGYEGENCEVDIDECGSNPCSNGSTCIDRINNFTCNCIPGMTGRICDIDIDDCVGDPCLNGGQCIDQLGGFRCDCSGTGYEGENCELNIDECLSNPCTNGAKCLDRVKDYFCDCHNGYKGKNCEQDINECESNPCQYNGNCLERSNITLYQMSRITDLPKVFSQPFSFENASGYECVCVPGIIGKNCEININECDSNPCSKHGNCNDGIGTYTCECEPGFEGTHCEINIDECDRYNPCQRGTCYDQIDDYDCDCDANYGGKNCSVLLKGCDQNPCLNGGACLPYLINEVTHLYNCTCENGFQGDKCEKTTTLSMVATSLISVTTEREEGYDINLQFRTTLPNGVLAFGTTGEKNEPVSYILELINGRLNLHSSLLNKWEGVFIGSKLNDSNWHKVFVAINTSHLVLSANDEQAIFPVGSYETANNSQPSFPRTYLGGTIPNLKSYLRHLTHQPSAFVGCMQDIMVNGKWIFPDEQDANISYTKLENVQSGCPRTEQCKPNPCHSNGECTDLWHTFACHCPRPFFGHTCQHNMTAATFGHENTTHSAVIVETTDVARRAIRSILDISMFIRTREPTGQVFYLGTDPRKAPTKNIGDSYVAAKLHGGELLVKMQFSGTPEAYTVGGQKLDNGYNHLIEVVRNQTLVQVKLNGTEYFRKTLSTTGLLDAQVLYLGGPAPTRESLLGATTEPGIIPVPGAGIPIEDTTVPKEADDSRDYFKGIIQDVKVSNGSLNLIVEMYSLNVTDVQVNAKPLGAVTIDRASVLPGEVSDDLCRKNPCLHNAECRNTWNDYTCKCPNGYKGKNCQEIEFCQHVTCPGQSLCQNLDDGYECVTNTTFTGQERSPLAFFYFQEQQSDDIVSEASPKQTLKPVIDIAFRTRAGGTLLYIDNVDGFFEIGVNGGRVTITWKLSALHFGESARFEKENTDGEWSRIYLRAHNSKLEGGWKGWESMVDPTPAFSTDIDQAAFQSLIATSTQVYLGGMPESRQARGSTLSAQQGSQFKGCVGEARVGDLLLPYFSMAELYSRTNVSVQQKAQFRLNATRPEEGCILCFQSDCKNDGFCQSPSDEYACTCQPGFEGDDCGTDIDECLNTECLNNGTCINQVAAFFCQCQPGFEGQHCEQNIDECADQPCHNGGNCTDLIASYVCDCPEDYMGPQCDVLKQMTCENEPCRNGSTCQNGFNASTGNNFTCTCVPGFEGPLCDIPFCEITPCDNGGLCLTTGAVPMCKCSLGYTGRLCEQDINECESNPCQNGGQCKDLVGRYECDCQGTGFEGIRCENDIDECNMEGDYCGGLGRCFNKPGSFQCICQKPYCGAYCNFTDPCNATDLCSNGGRCVESCGAKPDYYCECPEGFAGKNCTAPITAKEDGPSTTDIAIIVIPVVVVLLLIAGALLGTFLVMARNKRATRGTYSPSAQEYCNPRLEMDNVLKPPPEERLI |
| 114 | sp|Q16526|CRY1\_HUMAN | MGVNAVHWFRKGLRLHDNPALKECIQGADTIRCVYILDPWFAGSSNVGINRWRFLLQCLEDLDANLRKLNSRLFVIRGQPADVFPRLFKEWNITKLSIEYDSEPFGKERDAAIKKLATEAGVEVIVRISHTLYDLDKIIELNGGQPPLTYKRFQTLISKMEPLEIPVETITSEVIEKCTTPLSDDHDEKYGVPSLEELGFDTDGLSSAVWPGGETEALTRLERHLERKAWVANFERPRMNANSLLASPTGLSPYLRFGCLSCRLFYFKLTDLYKKVKKNSSPPLSLYGQLLWREFFYTAATNNPRFDKMEGNPICVQIPWDKNPEALAKWAEGRTGFPWIDAIMTQLRQEGWIHHLARHAVACFLTRGDLWISWEEGMKVFEELLLDADWSINAGSWMWLSCSSFFQQFFHCYCPVGFGRRTDPNGDYIRRYLPVLRGFPAKYIYDPWNAPEGIQKVAKCLIGVNYPKPMVNHAEASRLNIERMKQIYQQLSRYRGLGLLASVPSNPNGNGGFMGYSAENIPGCSSSGSCSQGSGILHYAHGDSQQTHLLKQGRSSMGTGLSGGKRPSQEEDTQSIGPKVQRQSTN |
| 115 | sp|Q8I0G5|COPG\_DROME | MNYFSLTSHKKHRGHPSAGPSNAYQNLEKTSVLQETRTFNETPVNPRKCIHILTKILYLINQGEQLVAREATDCFFAMTKLFQSKDVVLRRMVYLGIKELSSIAEDVIIVTSSLTKDMTGKEDLYRAAAIRALCSITDNTMLQAVERYMKQCIVDKNAAVSCAALVSSLRLANTAGDVVKRWANEAQEALNSDNIMVQYHALGLLYHIRKSDRLAVSKLVNKLTRGSLKSPYAVCMLIRIACKLIEEEDIPSEELSDSPLFTFIESCLRHKSEMVIYEAAHAIVNLKNTNPRMLSPAFSILQLFCSSPKATLRFAAVRTLNKVAMTHPAAVTTCNLDLEGLITDSNRSVATLAITTLLKTGAESSVERLMKQISTFVAEISDEFKVVVVQAICALCTKYPRKHTVLMNFLSGMLREEGGLEYKTSIVDTIITIIEENADAKESGLSHLCEFIEDCEHVSLAVRILHLLGKEGPFAATPSKYIRFIYNRVILESPIVRAAAVTAMAQFGASCPALLSNILVLLGRCQMDPDDEVRDRATYYLSILNSERPELYKNYIIERENCSLALLEKSLVEHLNGDVDTRFDISIVPKAAIVKPVIANDVMLVTSSAPRPPKITREEESAARLAQLPGIQVLGPIHRSTAPIQLTESETEYTVQCIKHIFGQHVVFQFDCLNTLSDQILENVRVELTLPEGFTTRAVIPCPKLPYNDLQTTFVIVEFPPDAANSIATFGATLRFVVKDCDPNTGEPESEEGYDDEYMLEDLELTVADQIQKTRKNNFQVSWDAADSEEWLQAEDTFVLSAVTTLQDAVNTIVKILGLGAANLSENVPEGTHLHTLLCSGTFRGGAEILVRAKLALSEGVTLNLTVRSTDQDVAELITAAIG |
| 116 | sp|P11509|CP2A6\_HUMAN | MLASGMLLVALLVCLTVMVLMSVWQQRKSKGKLPPGPTPLPFIGNYLQLNTEQMYNSLMKISERYGPVFTIHLGPRRVVVLCGHDAVREALVDQAEEFSGRGEQATFDWVFKGYGVVFSNGERAKQLRRFSIATLRDFGVGKRGIEERIQEEAGFLIDALRGTGGANIDPTFFLSRTVSNVISSIVFGDRFDYKDKEFLSLLRMMLGIFQFTSTSTGQLYEMFSSVMKHLPGPQQQAFQLLQGLEDFIAKKVEHNQRTLDPNSPRDFIDSFLIRMQEEEKNPNTEFYLKNLVMTTLNLFIGGTETVSTTLRYGFLLLMKHPEVEAKVHEEIDRVIGKNRQPKFEDRAKMPYMEAVIHEIQRFGDVIPMSLARRVKKDTKFRDFFLPKGTEVYPMLGSVLRDPSFFSNPQDFNPQHFLNEKGQFKKSDAFVPFSIGKRNCFGEGLARMELFLFFTTVMQNFRLKSSQSPKDIDVSPKHVGFATIPRNYTMSFLPR |
| 117 | sp|Q04827|CCND2\_RAT | MELLCCEVDPVRRAVPDRNLLEDRVLQNLLTIEERYLPQCSYFKCVQKDIQPYMRRMVATWMLEVCEEQKCEEEVFPLAMNYLDRFLAGVPTPKTHLQLLGAVCMFLASKLKETIPLTAEKLCIYTDNSVKPQELLEWELVVLGKLKWNLAAVTPHDFIEHILRKLPQQKEKLSLIRKHAQTFIALCATDFKFAMYPPSMIATGSVGAAICGLQQDEEVNALTCDALTELLTKITHTDVDCLKACQEQIEAVLLNSLQQFRQEQHNGSKSVEDPDQATTPTDVRDVDL |
| 118 | sp|P32396|CPFC\_BACSU | MSRKKMGLLVMAYGTPYKEEDIERYYTHIRRGRKPEPEMLQDLKDRYEAIGGISPLAQITEQQAHNLEQHLNEIQDEITFKAYIGLKHIEPFIEDAVAEMHKDGITEAVSIVLAPHFSTFSVQSYNKRAKEEAEKLGGLTITSVESWYDEPKFVTYWVDRVKETYASMPEDERENAMLIVSAHSLPEKIKEFGDPYPDQLHESAKLIAEGAGVSEYAVGWQSEGNTPDPWLGPDVQDLTRDLFEQKGYQAFVYVPVGFVADHLEVLYDNDYECKVVTDDIGASYYRPEMPNAKPEFIDALATVVLKKLGR |
| 119 | sp|Q86Y56|DAAF5\_HUMAN | MAALGVAEAVAAPHPAEGAETAEAVELSRALSRLLPGLEADSKPGRRRALEALRRALEEPGPAADPTAFQGPWARLLLPRLLRCLSDPAEGCRALAVHLLDLGLRRAARPRDALPRLLPALAARLAGPVPARRPPEACEELRLALVQLLGLAVDLCGAALAPHLDDALRALRCSLLDPFAAVRRESCSCAAALAQATPDHFHMQSESLIGPLMQTISHQHWKVRVAAIEATGAVIHFGNGKSVDDVLSHFAQRLFDDVPQVRRAVASVVGGWLLCLRDRYSFFHKLIPLLLSSLNDEVPEVRQLAASLWEDVGLQWQKENEEDLKDKLDFAPPTPPHYPPHERRPVLGCRELVFRNLSKILPALCHDITDWVVGTRVKSAQLLPVLLLHAEDHATQHLEVVLRTLFQACTDEEAAVVQSCTRSAELVGTFVSPEVFLKLILSTLKKTPSASGLLVLASAMRGCPREALQPHLAAIATELAQAHICQASENDLYLERLLLCVQALVSVCHEDCGVASLQLLDVLLTIVALAGATGLRDKAQETMDSLAMVEGVSSCQDLYRKHIGPLLERVTASHLDWTAHSPELLQFSVIVAQSGPALGEALPHVVPTLRACLQPSQDPQMRLKLFSILSTVLLRATDTINSQGQFPSYLETVTKDILAPNLQWHAGRTAAAIRTAAVSCLWALTSSEVLSAEQIRDVQETLMPQVLTTLEEDSKMTRLISCRIINTFLKTSGGMTDPEKLIRIYPELLKRLDDVSNDVRMAAASTLVTWLQCVKGANAKSYYQSSVQYLYRELLVHLDDPERAIQDAILEVLKEGSGLFPDLLVRETEAVIHKHRSATYCEQLLQHVQAVPATQ |
| 120 | sp|Q8BSU2|CXL16\_MOUSE | MRRGFGPLSLAFFLFLLALLTLPGDGNQGSVAGSCSCDRTISSGTQIPQGTLDHIRKYLKAFHRCPFFIRFQLQSKSVCGGSQDQWVRELVDCFERKECGTGHGKSFHHQKHLPQASTQTPEAAEGTPSDTSTPAHSQSTQHSTLPSGALSLNKEHTQPWEMTTLPSGYGLEARPEAEANEKQQDDRQQEAPGAGASTPAWVPVLSLLAIVFFLTAAMAYVLCNRRATQQNSAGLQLWYTPVEPRP |
| 121 | sp|Q92112|CP19A\_TAEGU | MVLETLNPLHYNITSLVPDTMPVATVPILILMCFLFLIWNHEETSSIPGPGYCMGIGPLISHGRFLWMGVGNACNYYNKTYGDFVRVWISGEETFIISKSSSVSHVMKHWHYVSRFGSKLGLQCIGMYENGIIFNNNPAHWKEIRPFFTKALSGPGLVRMIAICVESTTEHLDRLQEVTTELGNINALNLMRRIMLDTSNKLFLGVPLDENAIVLKIQNYFDAWQALLLKPDIFFKISWLCKKYKDAVKDLKGAMEILIEQKRQKLSTVEKLDEHMDFASQLIFAQNRGDLTAENVNQCVLEMMIAAPDTLSVTLFFMLILIAEHPTVEEEMMREIETVVGDRDIQSDDMPNLKIVENFIYESMRYQPVVDLIMRKALQDDVIDGYPVKKGTNIILNIGRMHKLEFFPKPNEFSLENFEKNVPSRYFQPFGFGPRSCVGKFIAMVMMKAILVTLLRRCRVQTMKGRGLNNIQKNNDLSMHPIERQPLLEMVFTPRRNANENQGDGMDQH |
| 122 | sp|P08683|CP2CB\_RAT | MDPVLVLVLTLSSLLLLSLWRQSFGRGKLPPGPTPLPIIGNTLQIYMKDIGQSIKKFSKVYGPIFTLYLGMKPFVVLHGYEAVKEALVDLGEEFSGRGSFPVSERVNKGLGVIFSNGMQWKEIRRFSIMTLRTFGMGKRTIEDRIQEEAQCLVEELRKSKGAPFDPTFILGCAPCNVICSIIFQNRFDYKDPTFLNLMHRFNENFRLFSSPWLQVCNTFPAIIDYFPGSHNQVLKNFFYIKNYVLEKVKEHQESLDKDNPRDFIDCFLNKMEQEKHNPQSEFTLESLVATVTDMFGAGTETTSTTLRYGLLLLLKHVDVTAKVQEEIERVIGRNRSPCMKDRSQMPYTDAVVHEIQRYIDLVPTNLPHLVTRDIKFRNYFIPKGTNVIVSLSSILHDDKEFPNPEKFDPGHFLDERGNFKKSDYFMPFSAGKRICAGEALARTELFLFFTTILQNFNLKSLVDVKDIDTTPAISGFGHLPPFYEACFIPVQRADSLSSHL |
| 123 | sp|P48973|CXL10\_RAT | MNPSAAVVLCLVLLSLSGTQGIPLARTVRCTCIDFHEQPLRPRAIGKLEIIPASLSCPHVEIIATMKKNNEKRCLNPESEAIKSLLKAVSQRRSKRAP |
| 124 | sp|P01190|COLI\_BOVIN | MPRLCSSRSGALLLALLLQASMEVRGWCLESSQCQDLTTESNLLACIRACKPDLSAETPVFPGNGDEQPLTENPRKYVMGHFRWDRFGRRNGSSSSGVGGAAQKREEEVAVGEGPGPRGDDAETGPREDKRSYSMEHFRWGKPVGKKRRPVKVYPNGAEDESAQAFPLEFKRELTGERLEQARGPEAQAESAAARAELEYGLVAEAEAEAAEKKDSGPYKMEHFRWGSPPKDKRYGGFMTSEKSQTPLVTLFKNAIIKNAHKKGQ |
| 125 | sp|P56590|CP1A1\_CANLF | MMSMFRLSIPISASELLLASTVFCLVLWVVKAWQPRLPKGLKSPPGPWGWPVLGNVLTLGKSPHLALSRLSQRYGDVLQIRIGSTPVLVLSGLDTIRQALVRQGDDFKGRPDLYSFSLVTDGQSLTFSPDSGPVWAARRRLAQNALKSFSIASDPASSCSCYLEEHVSKEAEVLLSRLQEQMAEVGRFDPYRYIVVSVANVICAMCFSKRYDHDDQELLSLVNLSNEFGEGVASANPLDFFPILRYLPNPALDFFKDLNKRFYSFMQKMVKEHYKTFEKGQIRDVTDSLIEHCQDKRLDENANIQLSDEKIVNVVLDLFGAGFDTVTTAISWSLLYLVTNPNVQKKIQKELDTVIGRARQPRLSDRPQLPYMEAFILETFRHASFVPFTIPHSTTRDTSLSGFYIPKGRCVFVNQWQINHDQKLWGNPSEFQPERFLTLDGTINKALSEKVILFGLGKRKCIGETIARLEVFLFLAILLQQVEFSVPEGTKVDMTPIYGLTMKHARCEHFQVRVRTEGAESPAA |
| 126 | sp|P01189|COLI\_HUMAN | MPRSCCSRSGALLLALLLQASMEVRGWCLESSQCQDLTTESNLLECIRACKPDLSAETPMFPGNGDEQPLTENPRKYVMGHFRWDRFGRRNSSSSGSSGAGQKREDVSAGEDCGPLPEGGPEPRSDGAKPGPREGKRSYSMEHFRWGKPVGKKRRPVKVYPNGAEDESAEAFPLEFKRELTGQRLREGDGPDGPADDGAGAQADLEHSLLVAAEKKDEGPYRMEHFRWGSPPKDKRYGGFMTSEKSQTPLVTLFKNAIIKNAYKKGE |
| 127 | sp|P09228|CYTT\_HUMAN | MAWPLCTLLLLLATQAVALAWSPQEEDRIIEGGIYDADLNDERVQRALHFVISEYNKATEDEYYRRLLRVLRAREQIVGGVNYFFDIEVGRTICTKSQPNLDTCAFHEQPELQKKQLCSFQIYEVPWEDRMSLVNSRCQEA |
| 128 | sp|Q61164|CTCF\_MOUSE | MEGEAVEAIVEESETFIKGKERKTYQRRREGGQEEDACHLPQNQTDGGEVVQDVNSSVQMVMMEQLDPTLLQMKTEVMEGTVAPEAEAAVDDTQIITLQVVNMEEQPINIGELQLVQVPVPVTVPVATTSVEELQGAYENEVSKEGLAESEPMICHTLPLPEGFQVVKVGANGEVETLEQGELPPQEDSSWQKDPDYQPPAKKTKKTKKSKLRYTEEGKDVDVSVYDFEEEQQEGLLSEVNAEKVVGNMKPPKPTKIKKKGVKKTFQCELCSYTCPRRSNLDRHMKSHTDERPHKCHLCGRAFRTVTLLRNHLNTHTGTRPHKCPDCDMAFVTSGELVRHRRYKHTHEKPFKCSMCDYASVEVSKLKRHIRSHTGERPFQCSLCSYASRDTYKLKRHMRTHSGEKPYECYICHARFTQSGTMKMHILQKHTENVAKFHCPHCDTVIARKSDLGVHLRKQHSYIEQGKKCRYCDAVFHERYALIQHQKSHKNEKRFKCDQCDYACRQERHMIMHKRTHTGEKPYACSHCDKTFRQKQLLDMHFKRYHDPNFVPAAFVCSKCGKTFTRRNTMARHADNCAGPDGVEGENGGETKKSKRGRKRKMRSKKEDSSDSEENAEPDLDDNEEEEEPAVEIEPEPEPQPQPPPPPQPVAPAPPPAKKRRGRPPGRTNQPKQNQPTAIIQVEDQNTGAIENIIVEVKKEPDAEPAEGEEEEAQAATTDAPNGDLTPEMILSMMDR |
| 129 | sp|Q8WWM9|CYGB\_HUMAN | MEKVPGEMEIERRERSEELSEAERKAVQAMWARLYANCEDVGVAILVRFFVNFPSAKQYFSQFKHMEDPLEMERSPQLRKHACRVMGALNTVVENLHDPDKVSSVLALVGKAHALKHKVEPVYFKILSGVILEVVAEEFASDFPPETQRAWAKLRGLIYSHVTAAYKEVGWVQQVPNATTPPATLPSSGP |
| 130 | sp|P58466|CTDS1\_MOUSE | MDSSAVITQISKEEARGPLRGKGDQKSAVSQKPRSRGILHSLFCCVCRDDGEPLPAHSGAPLLVEENGAIPKHTPVQYLLPEAKAQDSDKICVVIDLDETLVHSSFKPVNNADFIIPVEIDGVVHQVYVLKRPHVDEFLQRMGELFECVLFTASLAKYADPVADLLDKWGAFRARLFRESCVFHRGNYVKDLSRLGRDLRRVLILDNSPASYVFHPDNAVPVASWFDNMSDTELHDLLPFFEQLSRVDDVYSVLRQPRPGS |
| 131 | sp|F1RWC3|CUBN\_PIG | MVNNMSLLFLWSLVIFLTFAESYGEAGGPELQRHKRNTELQQPRMAAERGNLVFFTGLAQNIEFRTGSQGKIKLNDEDVGECLRQIQKNKFDIMNLKRGIIGLPQNVSSQIHQLESKLVDLERRFQSLQLTVDGKVCSSNPCQNGATCLNLHDSFFCICPSQWKGPLCSDDVNECEIYSGTPLGCQNGATCINTPGSYSCLCSPETHGPQCASKYDDCEGGSEMRCVHGICEDLTRVQAGEPRFRCICHAGWTSPSNSTACTLDRDECSSWPAPCSALVPCFNTLGSFYCGACPTGWQGNGYICEDINECEINNGGCSVAPPVECVNTPGSYYCPSCPPGYQGDGRMCTLIDLCSVNNGGCHPHAACSLILGSLPLCTCLPGYTGNGYGLHGCVPLSNVCLTRPCLHGQCMETASGYVCNCDSGWAGMNCTENINECLSNPCLNGGTCVDGINAFSCECTRFWTGSLCHLPQQVCGGTMSDVSGSFSYMSPDVGYVHDVDCFWVLRTEEGKVLRITFTFFQLESVDNCPHEFLQIHDGDSPAAFPLGRFCGSSPPHELLSSDNALYFHFFSEHLRNERGFTIRWETRQPECGGVLTGTYGSLKSPGYPGKYPPGRDCVWKVIASPDLLITFTFGTLSLEHHDDCRKDYLEIRDGPLHQDPVLGKFCTSLSVPPLQTTGPFARIHFHSDNQINDQGFHITYLTTPSDLHCGGNFTDPEGLLSPDLSGPFTHSRQCIYVITQPLGEQIQVNFTHVELEGQSGCSQSYIEVRDDQTLLGKVCGNETPSHIKSITNSIWIRLKIDASVVRASFGAAYQVACGGELTGEGVIRSPFYPNVYPGERICRWTIHQPQSQVVLLNFTAFEMGSSAHCDTDYIEIGSSPVLGSPENKKYCGTDIPSFITSVYNSLHVVFVKSSSTENHGFMAKFSTEALACGEILTESSGIIQSPGHPNIYPHGVNCTWHILVQPGHLIHLEIRQFHLEFHYNCTRDYLEIYDTVSDTSLGRYCGKSIPPSLTSNTNSLKLIFVADADLAYEGFVINYEATDASAGNTTALLYRRIWIFTSPNFPSNYPNNMECIYRITVETSQQIALHFTDFSLEEPIGGACAADYVEITNGGYASSPPLGKYCGSNPPPRIISHSNKLWLKFKSDFFGSGPGFSAYWDGSLTGCGGNLTTPTGTFTSPNYPMPYYHSSECFWWLKSSHGSPFELEFNDFHLEYHPNCTLDYLDVYDGLSTSSHLLTRLCGNEKPPLIRSTGDSMSLKLRTDEGQQGGGFLVKYQQTCDNVVIVNRTYGILESIHYPKPYSVNQRCNWTIQATAGNTVNYTFLAFELESHANCSTDYLELYDGPQRMGRFCGAVIPPSGSTTGSRLQVLFHTDGVGQGERGFQMQWLVHGCGGELSGDTGTFSSPGYPVGYPANKECIWYIHSSPGSSIQLTIHDFDVEYHATCNFDVLEIYGGPDFHSPRIAQLCVQRSAENPMQVSSTGNELALRFKTDSSVNGRGFNVSWRAVPGGCGGIFQAPSGEIHSPNYPSPYRSNTECTWLIQVEKNHRVLLNFTDFDLEPQDSCIMAFDGLSSATARLVGVCGRQQLSNPIISTGSSLFVRFQSGPSRQSRGFRAQFRQACGGHILTDSFDTISSPRFPASYPNNQNCSWIIQAQPPFNHITLSFSHFGLESSSTCTRDFVEILDGSHSDAPLRGRYCGSSMPHPITSFGNALMLRFVSDSSVNFDGFHATYVASTSACGGIFHMAEGIFNSPGYPEVYPSNVECVWNIASSPGNQLQLSFITFQLEDSRDCSRDFVEIREGNATGRLVGRYCGNVLPLNYSSIIGHDLWIKFVSDGSGSGVGFQAAFNNIFGNDHIVGTHGKVASPLWPRNYPHNSNYQWIVNVNESQVIHGRILEMDVEGTFNCYYDKLRIYDGADIHSRLIGTYCGAQTESFSSTGSSLTFQFSSDSSISGRGFLLEWFAMDASDGPLPTIATGACGGFLRTGDAPVFLYSPGWPGSYSNGADCMWLIQAPDSTVELNILSLDIESHRTCDYDKLVIRDGDNNMAQELAVLCGREIPGPIRSTGEYMTIRFTSDFSVTRAGFNASFHKSCGGYLHADRGIITSPGYPEAYTSNLNCSWHVQVQQGLSIAVHFEQPFQVSNRDAFCNQGDYLVLKNGPDIYSPPLGPHGGNGRFCGSRPSSTLFTSDNELFVQFISDNSNEGQGFKITYEAKSLACGGNIYIHDADSSGYVASPNHPDNYPQHADCIWVIAAPSGRPIRLEFEDQFSIEITPNCTSSYLELRDGADSNAPVLAKFCGTSLPPSQLSSGEVMYLRFRSDNSPTHAGFKAKYSIAQCGGTVTGQSGVIESSGYPALPYANNLFCEWRLQGLSGHYLTIHFEDFNLQNSSGCERDFVEIWENHTSGNLLGRYCGNTVPDSIDTSGNVALVRFVTDGFLTASGFRLRFDSSMEGCGGDLQGPTGTFTAPNYLNPNPHGWMCEWRITVQEGRRVTLTLNDLRLEAHPFCNSEHVAVFNGIRSNSPQLEKRCSSVNGSNEIRSSGNTMKVVYFTDGSRPYGGFTASYTSSEDAVCGGSLTNSPEGNFTSPGYDGTRNYSRNLNCEWTLSNSNQGNSSIYIDFEDFYLESHQDCQFDVLEFRVDNADGLLIWRLCGSSKPTMPLVIPYPQVWIHFVTNERVEHIGFRARYSFTDCGGIQIGDHGVISSPNYPASYDSLTHCSWLLEAPQGHTITLTFSDFDIEAHASCAWDSVTVRNGGSPGSPIIGHYCGSSNPRTIQSGSNQLVVIFNTDSSVQNGGFYATWNTETSGCGGILHSDTGTIRSPHWPQNFPENSRCSWTVITHPSKHLEISFDNNFLIPSGDSQCLNSFVKVWAGTQEADKDLLATSCGNVSPGRIITPRNAFTAVFQSQETPAQGFSASFLSRCGRNFTNPSGYIVSPNYPKQYDNNMNCTYIIEASPLSVILLKVVSFHLEARSTVSGSCDSDGVHIIRGHSLSSTPLVTLCGDEALSPVTISGPVLLNFYSNAHTTDFGFKFSYRITPCGGTFNLSFGIIKSPSYSYSNYPNDMHCLYTVTVRDDRVIQLKFNDFDLVPSTFCSQDYLEIYDGSNISDPLLGKFCGSTLPPNVKSSNNTMFLVFKTDSVHTARGWKISFRETLGPQQGCGGYLTGSTHTFGSPDSDSNGRYDKNLNCIWFITAPVNKLIKLTFSTFALEAATSLQRCIYDYVKLYDGDSENANLAGTFCGSTVPAPFISSGNFLTVQFVSDSSLEREGFNATYTLLDMPCGGTYNATWTSQSIWSPSSSDPDVPLTTCTWVIEAPLHQQVEITVWTFQLHSQDCDQNYLEFRDPPERNGNPGIRFCGRNASAVPTFYSSLSTAIIIFKSEVFNTDSRVGFTYRIAGCSREYQKAFGRLRSPGWPAGYASDADCAVVLRAPQNHTISLFFHAFGLEDSGGCTRDFLEVRNGSESTSPLLGKYCGTLLPNPIFSQSRDLYLRFKSDSATSGRGYEIIWTSSPSGCGGTLYGDSGLVTSPGYPGTYPNHTHCEWVIIAPGGRPVTVSFSFISIDDPGECVQNYLMLYDGPDANSPSSGPYCGADTDVAPFAASSHRVFIRFHAEAAARPSALRLTWAS |
| 132 | sp|Q8MPP3|D2MP\_DROME | MFSKYVLATLLALFAQSMCIQELSLPPEGSHSTAATRSKKAKTAISEDIMYNYLMQFDYLPKSDLETGALRTEDQLKEAIRSLQSFGNITVTGEIDSATARLIQKPRCGVGDRRSADSFSPDNLYHEIGSNVRVRRFALQGPKWSRTDLTWSMVNRSMPDASKVERMVQTALDVWANHSKLTFREVYSDQADIQILFARRAHGDGYKFDGPGQVLAHAFYPGEGRGGDAHFDADETWNFDGESDDSHGTNFLNVALHELGHSLGLAHSAIPDAVMFPWYQNNEVAGNLPDDDRYGIQQLYGTKEKTWGPYKPQTTTTTTTTTTMRAMIYRADKPAYWPWNNPSNNPNNDRNRARERQEEERRRQEKERRRQEEERRHQEEERRRQVEERQRQEEERWRQEQERQEEENRRRKIEHKSQWERNPSKERNRPRERQEMERRRQEQERQEQERQEQEDRRRERERDRQLEWERRNRNGAREPVTPTANTTPRPTNKPYPTVHRQHHHHNKPRKPKPDSCMTYYDAISIIRGELFIFRGPYLWRIGTSGLYNGYPTEIRRHWSALPENLTKVDAVYENKQRQIVFFIGREYYVFNSVMLAPGFPKPLASLGLPPTLTHIDASFVWGHNNRTYMTSGTLYWRIDDYTGQVELDYPRDMSIWSGVGYNIDAAFQYLDGKTYFFKNLGYWEFNDDRMKVAHARAKLSARRWMQCARSANEVDDEQRWTASLVSEGEETGRSGSRELRINHFILSILLLAIANWRS |
| 133 | sp|Q9Y5B0|CTDP1\_HUMAN | MEVPAAGRVPAEGAPTAAVAEVRCPGPAPLRLLEWRVAAGAAVRIGSVLAVFEAAASAQSSGASQSRVASGGCVRPARPERRLRSERAGVVRELCAQPGQVVAPGAVLVRLEGCSHPVVMKGLCAECGQDLTQLQSKNGKQQVPLSTATVSMVHSVPELMVSSEQAEQLGREDQQRLHRNRKLVLMVDLDQTLIHTTEQHCQQMSNKGIFHFQLGRGEPMLHTRLRPHCKDFLEKIAKLYELHVFTFGSRLYAHTIAGFLDPEKKLFSHRILSRDECIDPFSKTGNLRNLFPCGDSMVCIIDDREDVWKFAPNLITVKKYVYFQGTGDMNAPPGSRESQTRKKVNHSRGTEVSEPSPPVRDPEGVTQAPGVEPSNGLEKPARELNGSEAATPRDSPRPGKPDERDIWPPAQAPTSSQELAGAPEPQGSCAQGGRVAPGQRPAQGATGTDLDFDLSSDSESSSESEGTKSSSSASDGESEGKRGRQKPKAAPEGAGALAQGSSLEPGRPAAPSLPGEAEPGAHAPDKEPELGGQEEGERDGLCGLGNGCADRKEAETESQNSELSGVTAGESLDQSMEEEEEEDTDEDDHLIYLEEILVRVHTDYYAKYDRYLNKEIEEAPDIRKIVPELKSKVLADVAIIFSGLHPTNFPIEKTREHYHATALGAKILTRLVLSPDAPDRATHLIAARAGTEKVLQAQECGHLHVVNPDWLWSCLERWDKVEEQLFPLRDDHTKAQRENSPAAFPDREGVPPTALFHPMPVLPKAQPGPEVRIYDSNTGKLIRTGARGPPAPSSSLPIRQEPSSFRAVPPPQPQMFGEELPDAQDGEQPGPSRRKRQPSMSETMPLYTLCKEDLESMDKEVDDILGEGSDDSDSEKRRPEEQEEEPQPRKPGTRRERTLGAPASSERSAAGGRGPRGHKRKLNEEDAASESSRESSNEDEGSSSEADEMAKALEAELNDLM |
| 134 | sp|Q5SQX6|CYFP2\_MOUSE | MTTHVTLEDALSNVDLLEELPLPDQQPCIEPPPSSIMYQANFDTNFEDRNAFVTGIARYIEQATVHSSMNEMLEEGHDYAVMLYTWRSCSRAIPQVKCNEQPNRVEIYEKTVEVLEPEVTKLMKFMYFQRKAIERFCSEVKRLCHAERRKDFVSEAYLLTLGKFINMFAVLDELKNMKCSVKNDHSAYKRAAQFLRKMADPQSIQESQNLSMFLANHNRITQCLHQQLEVIPGYEELLADIVNICVDYYENKMYLTPSEKHMLLKVMGFGLYLMDGNVSNIYKLDAKKRINLSKIDKFFKQLQVVPLFGDMQIELARYIKTSAHYEENKSKWTCTQSSISPQYNICEQMVQIRDDHIRFISELARYSNSEVVTGSGLDSQKSDEEYRELFDLALRGLQLLSKWSAHVMEVYSWKLVHPTDKFCNKDCPGTAEEYERATRYNYTSEEKFAFVEVIAMIKGLQVLMGRMESVFNQAIRNTIYAALQDFAQVTLREPLRQAVRKKKNVLISVLQAIRKTICDWEGGREPPNDPCLRGEKDPKGGFDIKVPRRAVGPSSTQLYMVRTMLESLIADKSGSKKTLRSSLDGPIVLAIEDFHKQSFFFTHLLNISEALQQCCDLSQLWFREFFLELTMGRRIQFPIEMSMPWILTDHILETKEPSMMEYVLYPLDLYNDSAYYALTKFKKQFLYDEIEAEVNLCFDQFVYKLADQIFAYYKAMAGSVLLDKRFRAECKNYGVIIPYPPSNRYETLLKQRHVQLLGRSIDLNRLITQRISAAMYKSLDQAISRFESEDLTSIVELEWLLEINRLTHRLLCKHMTLDSFDAMFREANHNVSAPYGRITLHVFWELNFDFLPNYCYNGSTNRFVRTAIPFTQEPQRDKPANVQPYYLYGSKPLNIAYSHIYSSYRNFVGPPHFKTICRLLGYQGIAVVMEELLKIVKSLLQGTILQYVKTLIEVMPKICRLPRHEYGSPGILEFFHHQLKDIIEYAELKTDVFQSLREVGNAILFCLLIEQALSQEEVCDLLHAAPFQNILPRVYIKEGERLEVRMKRLEAKYAPLHLVPLIERLGTPQQIAIAREGDLLTKERLCCGLSMFEVILTRIRSYLQDPIWRGPPPTNGVMHVDECVEFHRLWSAMQFVYCIPVGTNEFTAEQCFGDGLNWAGCSIIVLLGQQRRFDLFDFCYHLLKVQRQDGKDEIIKNVPLKKMADRIRKYQILNNEVFAILNKYMKSVETDSSTVEHVRCFQPPIHQSLATTC |
| 135 | sp|Q61301|CTNA2\_MOUSE | MTSATSPIILKWDPKSLEIRTLTVERLLEPLVTQVTTLVNTSNKGPSGKKKGRSKKAHVLAASVEQATQNFLEKGEQIAKESQDLKEELVAAVEDVRKQGETMRIASSEFADDPCSSVKRGTMVRAARALLSAVTRLLILADMADVMRLLSHLKIVEEALEAVKNATNEQDLANRFKEFGKEMVKLNYVAARRQQELKDPHCRDEMAAARGALKKNATMLYTASQAFLRHPDVAATRANRDYVFKQVQEAIAGISSAAQATSPTDEAKGHTGIGELAAALNEFDNKIILDPMTFSEARFRPSLEERLESIISGAALMADSSCTRDDRRERIVAECNAVRQALQDLLSEYMNNTGRKEKGDPLNIAIDKMTKKTRDLRRQLRKAVMDHISDSFLETNVPLLVLIEAAKSGNEKEVKEYAQVFREHANKLVEVANLACSISNNEEGVKLVRMAATQIDSLCPQVINAALTLAARPQSKVAQDNMDVFKDQWEKQVRVLTEAVDDITSVDDFLSVSENHILEDVNKCVIALQEGDVDTLDRTAGAIRGRAARVIHIINAEMENYEAGVYTEKVLEATKLLSETVMPRFAEQVEVAIEALSANVPQPFEENEFIDASRLVYDGVRDIRKAVLMIRTPEELEDDSDFEQEDYDVRSRTSVQTEDDQLIAGQSARAIMAQLPQEEKAKIAEQVEIFHQEKSKLDAEVAKWDDSGNDIIVLAKQMCMIMMEMTDFTRGKGPLKNTSDVINAAKKIAEAGSRMDKLARAVADQCPDSACKQDLLAYLQRIALYCHQLNICSKVKAEVQNLGGELIVSGTGVQSTFTTFYEVDCDVIDGGRASQLSTHLPTCAEGAPIGSGSSDSSMLDSATSLIQAAKNLMNAVVLTVKASYVASTKYQKVYGTAAVNSPVVSWKMKAPEKKPLVKREKPEEFQTRVRRGSQKKHISPVQALSEFKAMDSF |
| 136 | sp|Q86IV5|CTNA\_DICDI | MNKLFSLILALFLVNSAVVSSLDSCSICVDFVGNSLNDLLNIILNSGVIGTCGDLCSAVPGGQIVDTVCDLLCDYVGVDEFIKLISDVDPDPIYICEKISVCKTNDNAAASLDLVQINPQNGTVGGTFTLSIAYTVTNTIATGQLAFNIIDPTGNAFGDAVLLVQQSPEQYTQQFQFQATPSEQESFPNGLYTVQALVCEGSCGSPHPNTYTLANGTTTFTISGADSSSMSGAGSFSGSSQSTQTGAASGSGSGFALF |
| 137 | sp|P30997|CTNA2\_CHICK | MTSATSPIILKWDPKSLEIRTLTVERLLEPLVTQVTTLVNTSNKGPSGKKKGRSKKAHVLAASVEQATQNFLEKGDQIAKESQDLKEELVAAVEDVRKQGETMRIASSEFADDPCSSVKRGTMVRAARALLSAVTRLLILADMADVMRLLSHLKIVEEALEAVKNATNEQDLANRFKEFGKEMVKLNYVAARRQQELKDPHCRDEMAAARGALKKNATMLYTASQAFLRHPDVAATRANRDYVFKQVQEAIAGISNAAQATSPTDENKGHTGIGELAAALNEFDNKIILDPMTFSEARFRPSLEERLESIISGAALMADSSCTRDDRRKRIVAECKRAVRQALQDLLSEYMNNTGRKEKGDPLNIAIDKMTKKTRDLRRQLRKAVMDHISDSFLETNVPLLVLIEAAKSGNEKEVKEYAQVFREHANKLVEVANLACSISNNEEGVKLVRMAATQIDSLCPQVINAALTLAARPQSKVAQDNMDVFKDQWEKQVRVLTEAVDDITSVDDFLSVSENHILEDVNKCVIALQEGDVDTLDRTAGAIRGRAARVIHIINAEMENYETGVYTEKVLEATKLLSETVMPRFAEQVEVAIEALSANVPQPFEENEFIDASRLVYDGVRDIRKAVLMIRTPEELEDDSDFEQEDYDVRSRTSVQTEDDQLIAGQSARAIMAQLPQEEKAKIAEQVEIFHQEKSKLDAEVAKWDDSGNDIIVLAKQMCMIMMEMTDFTRGKGPLKNTSDVINAAKKIAEAGSRMDKLARAVADQCPDSACKQDLLAYLQRIALYCHQLNICSKVKAEVQNLGGELIVSGLDSATSLIQAAKNLMNAVVLTVKASYVASTKYQKVYGTAAVNSPVVSWKMKAPEKKPLVKREKPEEYQTRVRRGSQKKHISPVQALSEFKAMDSF |
| 138 | sp|P00167|CYB5\_HUMAN | MAEQSDEAVKYYTLEEIQKHNHSKSTWLILHHKVYDLTKFLEEHPGGEEVLREQAGGDATENFEDVGHSTDAREMSKTFIIGELHPDDRPKLNKPPETLITTIDSSSSWWTNWVIPAISAVAVALMYRLYMAED |
| 139 | sp|Q08495|DEMA\_HUMAN | MERLQKQPLTSPGSVSPSRDSSVPGSPSSIVAKMDNQVLGYKDLAAIPKDKAILDIERPDLMIYEPHFTYSLLEHVELPRSRERSLSPKSTSPPPSPEVWADSRSPGIISQASAPRTTGTPRTSLPHFHHPETSRPDSNIYKKPPIYKQRESVGGSPQTKHLIEDLIIESSKFPAAQPPDPNQPAKIETDYWPCPPSLAVVETEWRKRKASRRGAEEEEEEEDDDSGEEMKALRERQREELSKVTSNLGKMILKEEMEKSLPIRRKTRSLPDRTPFHTSLHQGTSKSSSLPAYGRTTLSRLQSTEFSPSGSETGSPGLQNGEGQRGRMDRGNSLPCVLEQKIYPYEMLVVTNKGRTKLPPGVDRMRLERHLSAEDFSRVFAMSPEEFGKLALWKRNELKKKASLF |
| 140 | sp|Q9UJV9|DDX41\_HUMAN | MEESEPERKRARTDEVPAGGSRSEAEDEDDEDYVPYVPLRQRRQLLLQKLLQRRRKGAAEEEQQDSGSEPRGDEDDIPLGPQSNVSLLDQHQHLKEKAEARKESAKEKQLKEEEKILESVAEGRALMSVKEMAKGITYDDPIKTSWTPPRYVLSMSEERHERVRKKYHILVEGDGIPPPIKSFKEMKFPAAILRGLKKKGIHHPTPIQIQGIPTILSGRDMIGIAFTGSGKTLVFTLPVIMFCLEQEKRLPFSKREGPYGLIICPSRELARQTHGILEYYCRLLQEDSSPLLRCALCIGGMSVKEQMETIRHGVHMMVATPGRLMDLLQKKMVSLDICRYLALDEADRMIDMGFEGDIRTIFSYFKGQRQTLLFSATMPKKIQNFAKSALVKPVTINVGRAGAASLDVIQEVEYVKEEAKMVYLLECLQKTPPPVLIFAEKKADVDAIHEYLLLKGVEAVAIHGGKDQEERTKAIEAFREGKKDVLVATDVASKGLDFPAIQHVINYDMPEEIENYVHRIGRTGRSGNTGIATTFINKACDESVLMDLKALLLEAKQKVPPVLQVLHCGDESMLDIGGERGCAFCGGLGHRITDCPKLEAMQTKQVSNIGRKDYLAHSSMDF |
| 141 | sp|Q92841|DDX17\_HUMAN | MPTGFVAPILCVLLPSPTREAATVASATGDSASERESAAPAAAPTAEAPPPSVVTRPEPQALPSPAIRAPLPDLYPFGTMRGGGFGDRDRDRDRGGFGARGGGGLPPKKFGNPGERLRKKKWDLSELPKFEKNFYVEHPEVARLTPYEVDELRRKKEITVRGGDVCPKPVFAFHHANFPQYVMDVLMDQHFTEPTPIQCQGFPLALSGRDMVGIAQTGSGKTLAYLLPAIVHINHQPYLERGDGPICLVLAPTRELAQQVQQVADDYGKCSRLKSTCIYGGAPKGPQIRDLERGVEICIATPGRLIDFLESGKTNLRRCTYLVLDEADRMLDMGFEPQIRKIVDQIRPDRQTLMWSATWPKEVRQLAEDFLRDYTQINVGNLELSANHNILQIVDVCMESEKDHKLIQLMEEIMAEKENKTIIFVETKRRCDDLTRRMRRDGWPAMCIHGDKSQPERDWVLNEFRSGKAPILIATDVASRGLDVEDVKFVINYDYPNSSEDYVHRIGRTARSTNKGTAYTFFTPGNLKQARELIKVLEEANQAINPKLMQLVDHRGGGGGGGGRSRYRTTSSANNPNLMYQDECDRRLRGVKDGGRRDSASYRDRSETDRAGYANGSGYGSPNSAFGAQAGQYTYGQGTYGAAAYGTSSYTAQEYGAGTYGASSTTSTGRSSQSSSQQFSGIGRSGQQPQPLMSQQFAQPPGATNMIGYMGQTAYQYPPPPPPPPPSRK |
| 142 | sp|Q6P3S1|DEN1B\_HUMAN | MDCRTKANPDRTFDLVLKVKCHASENEDPVVLWKFPEDFGDQEILQSVPKFCFPFDVERVSQNQVGQHFTFVLTDIESKQRFGFCRLTSGGTICLCILSYLPWFEVYYKLLNTLADYLAKELENDLNETLRSLYNHPVPKANTPVNLSVNQEIFIACEQVLKDQPALVPHSYFIAPDVTGLPTIPESRNLTEYFVAVDVNNMLQLYASMLHERRIVIISSKLSTLTACIHGSAALLYPMYWQHIYIPVLPPHLLDYCCAPMPYLIGIHSSLIERVKNKSLEDVVMLNVDTNTLESPFSDLNNLPSDVVSALKNKLKKQSTATGDGVARAFLRAQAALFGSYRDALRYKPGEPITFCEESFVKHRSSVMKQFLETAINLQLFKQFIDGRLAKLNAGRGFSDVFEEEITSGGFCGGNPRSYQQWVHTVKKGGALFNTAMTKATPAVRTAYKFAKNHAKLGLKEVKSKLKHKENEEDYGTCSSSVQYTPVYKLHNEKGGNSEKRKLAQARLKRPLKSLDGALYDDEDDDDIERASKLSSEDGEEASAYLYESDDSVETRVKTPYSGEMDLLGEILDTLSTHSSDQGKLAAAKSLDFFRSMDDIDYKPTNKSNAPSENNLAFLCGGSGDQAEWNLGQDDSALHGKHLPPSPRKRVSSSGLTDSLFILKEENSNKHLGADNVSDPTSGLDFQLTSPEVSQTDKGKTEKRETLSQISDDLLIPGLGRHSSTFVPWEKEGKEAKETSEDIGLLHEVVSLCHMTSDFQQSLNISDKNTNGNQT |
| 143 | sp|Q6DD33|DCK2\_XENLA | MATPPKRMCHSPVFNNSFEKRVKKLSIEGNIAAGKSTFVRILEKASDEWEVVPEPIAKWCNVQTTENENEELSTSQKSGGNLLQMLYDKPTRWAYTFQTYACLSRVRAQLKTPSPKLLEAEHPVQFFERSVYSDRYIFASSLFEFQNINETEWAIYQDWHTWFLNQFESDIDLDGIIYLRATPEKCMDRLHTRGREEEQGIQLEYLESLHYKHESWLYDRTMSVDFENLQHMPVMVLDVNEDFKYDKIKQEALLDKVKEFLASL |
| 144 | sp|Q62622|4EBP1\_RAT | MSAGSSCSQTPSRAIPTRRVALGDGVQLPPGDYSTTPGGTLFSTTPGGTRIIYDRKFLMECRNSPVAKTPPKDLPTIPGVTSPTSDEPPMQASQSHLHSSPEDKRAGGEESQFEMDI |
| 145 | sp|P05141|ADT2\_HUMAN | MTDAAVSFAKDFLAGGVAAAISKTAVAPIERVKLLLQVQHASKQITADKQYKGIIDCVVRIPKEQGVLSFWRGNLANVIRYFPTQALNFAFKDKYKQIFLGGVDKRTQFWLYFAGNLASGGAAGATSLCFVYPLDFARTRLAADVGKAGAEREFRGLGDCLVKIYKSDGIKGLYQGFNVSVQGIIIYRAAYFGIYDTAKGMLPDPKNTHIVISWMIAQTVTAVAGLTSYPFDTVRRRMMMQSGRKGTDIMYTGTLDCWRKIARDEGGKAFFKGAWSNVLRGMGGAFVLVLYDEIKKYT |
| 146 | sp|P51816|AFF2\_HUMAN | MDLFDFFRDWDLEQQCHYEQDRSALKKREWERRNQEVQQEDDLFSSGFDLFGEPYKVAEYTNKGDALANRVQNTLGNYDEMKNLLTNHSNQNHLVGIPKNSVPQNPNNKNEPSFFPEQKNRIIPPHQDNTHPSAPMPPPSVVILNSTLIHSNRKSKPEWSRDSHNPSTVLASQASGQPNKMQTLTQDQSQAKLEDFFVYPAEQPQIGEVEESNPSAKEDSNPNSSGEDAFKEIFQSNSPEESEFAVQAPGSPLVASSLLAPSSGLSVQNFPPGLYCKTSMGQQKPTAYVRPMDGQDQAPDISPTLKPSIEFENSFGNLSFGTLLDGKPSAASSKTKLPKFTILQTSEVSLPSDPSCVEEILREMTHSWPTPLTSMHTAGHSEQSTFSIPGQESQHLTPGFTLQKWNDPTTRASTKSVSFKSMLEDDLKLSSDEDDLEPVKTLTTQCTATELYQAVEKAKPRNNPVNPPLATPQPPPAVQASGGSGSSSESESSSESDSDTESSTTDSESNEAPRVATPEPEPPSTNKWQLDKWLNKVTSQNKSFICGQNETPMETISLPPPIIQPMEVQMKVKTNASQVPAEPKERPLLSLIREKARPRPTQKIPETKALKHKLSTTSETVSQRTIGKKQPKKVEKNTSTDEFTWPKPNITSSTPKEKESVELHDPPRGRNKATAHKPAPRKEPRPNIPLAPEKKKYRGPGKIVPKSREFIETDSSTSDSNTDQEETLQIKVLPPCIISGGNTAKSKEICGASLTLSTLMSSSGSNNNLSISNEEPTFSPIPVMQTEILSPLRDHENLKNLWVKIDLDLLSRVPGHSSLHAAPAKPDHKETATKPKRQTAVTAVEKPAPKGKRKHKPIEVAEKIPEKKQRLEEATTICLLPPCISPAPPHKPPNTRENNSSRRANRRKEEKLFPPPLSPLPEDPPRRRNVSGNNGPFGQDKNIAMTGQITSTKPKRTEGKFCATFKGISVNEGDTPKKASSATITVTNTAIATATVTATAIVTTTVTATATATATTTTTTTTISTITSTITTGLMDSSHLEMTSWAALPLLSSSSTNVRRPKLTFDDSVHNADYYMQEAKKLKHKADALFEKFGKAVNYADAALSFTECGNAMERDPLEAKSPYTMYSETVELLRYAMRLKNFASPLASDGDKKLAVLCYRCLSLLYLRMFKLKKDHAMKYSRSLMEYFKQNASKVAQIPSPWVSNGKNTPSPVSLNNVSPINAMGNCNNGPVTIPQRIHHMAASHVNITSNVLRGYEHWDMADKLTRENKEFFGDLDTLMGPLTQHSSMTNLVRYVRQGLCWLRIDAHLL |
| 147 | sp|Q25C79|AKIR2\_RAT | MACGATLKRTLDFDPLLSPASPKRRRCAPLSAPASAAASPAAATAAAAASAAAASPQKYLRMEPSPFGDVSSRLTTEQILYNIKQEYKRMQKRRHLEASFQQTDPGCSSDSQPHAFLISGPASPGTSSATSSPLKKEQPLFTLRQVGMICERLLKEREEKVREEYEEILNTKLAEQYDAFVKFTHDQIMRRYGEQPASYVS |
| 148 | sp|P05095|ACTNA\_DICDI | MSEEPTPVSGNDKQLLNKAWEITQKKTFTAWCNSHLRKLGSSIEQIDTDFTDGIKLAQLLEVISNDPVFKVNKTPKLRIHNIQNVGLCLKHIESHGVKLVGIGAEELVDKNLKMTLGMIWTIILRFAIQDISIEELSAKEALLLWCQRKTEGYDRVKVGNFHTSFQDGLAFCALIHKHRPDLINFDSLNKDDKAGNLQLAFDIAEKELDIPKMLDVSDMLDVVRPDERSVMTYVAQYYHHFSASRKAETAGKQVGKVLDTFMLLEQTKSDYLKRANELVQWINDKQASLESRDFGDSIESVQSFMNAHKEYKKTEKPPKGQEVSELEAIYNSLQTKLRLIKREPFVAPAGLTPNEIDSTWSALEKAEQEHAEALRIELKRQKKIAVLLQKYNRILKKLENWATTKSVYLGSNETGDSITAVQAKLKNLEAFDGECQSLEGQSNSDLLSILAQLTELNYNGVPELTERKDTFFAQQWTGVKSSAETYKNTLLAELERLQKIEDSLVEFAKRAAQLNVWIEAADDHVFDPINVDSVQGVQEIQEKFDAFLHDQSQQFAELEALAALTQQLRELGRSENDYSVISYDELSAKWNNLLAGIEERKVQLANELTTQTNNDVLCQSFSVKANEISDYVRVTLDAISQNTSSDPQEQLNNIRAIITAHAEKKPELDELYTIASQLEEAQVVDNKHTQHSLESIKLKWDKLNTLAKKNEQVVEGEILAKQLTGVTAEELSEFKACFSHFDKDNDNKLNRLEFSSCLKSIGDELTEEQLNQVISKIDTDGNGTISFEEFIDYMVSSRKGTDSVESTKAAFKVMAEDKDFITEAQIRAAISDSKQIDYLLASMPAVEGGFDYNSFAEKLYQ |
| 149 | sp|Q9NP73|ALG13\_HUMAN | MKCVFVTVGTTSFDDLIACVSAPDSLQKIESLGYNRLILQIGRGTVVPEPFSTESFTLDVYRYKDSLKEDIQKADLVISHAGAGSCLETLEKGKPLVVVINEKLMNNHQLELAKQLHKEGHLFYCTCRVLTCPGQAKSIASAPGKCQDSAALTSTAFSGLDFGLLSGYLHKQALVTATHPTCTLLFPSCHAFFPLPLTPTLYKMHKGWKNYCSQKSLNEASMDEYLGSLGLFRKLTAKDASCLFRAISEQLFCSQVHHLEIRKACVSYMRENQQTFESYVEGSFEKYLERLGDPKESAGQLEIRALSLIYNRDFILYRFPGKPPTYVTDNGYEDKILLCYSSSGHYDSVYSKQFQSSAAVCQAVLYEILYKDVFVVDEEELKTAIKLFRSGSKKNRNNAVTGSEDAHTDYKSSNQNRMEEWGACYNAENIPEGYNKGTEETKSPENPSKMPFPYKVLKALDPEIYRNVEFDVWLDSRKELQKSDYMEYAGRQYYLGDKCQVCLESEGRYYNAHIQEVGNENNSVTVFIEELAEKHVVPLANLKPVTQVMSVPAWNAMPSRKGRGYQKMPGGYVPEIVISEMDIKQQKKMFKKIRGKEVYMTMAYGKGDPLLPPRLQHSMHYGHDPPMHYSQTAGNVMSNEHFHPQHPSPRQGRGYGMPRNSSRFINRHNMPGPKVDFYPGPGKRCCQSYDNFSYRSRSFRRSHRQMSCVNKESQYGFTPGNGQMPRGLEETITFYEVEEGDETAYPTLPNHGGPSTMVPATSGYCVGRRGHSSGKQTLNLEEGNGQSENGRYHEEYLYRAEPDYETSGVYSTTASTANLSLQDRKSCSMSPQDTVTSYNYPQKMMGNIAAVAASCANNVPAPVLSNGAAANQAISTTSVSSQNAIQPLFVSPPTHGRPVIASPSYPCHSAIPHAGASLPPPPPPPPPPPPPPPPPPPPPPPPPPPALDVGETSNLQPPPPLPPPPYSCDPSGSDLPQDTKVLQYYFNLGLQCYYHSYWHSMVYVPQMQQQLHVENYPVYTEPPLVDQTVPQCYSEVRREDGIQAEASANDTFPNADSSSVPHGAVYYPVMSDPYGQPPLPGFDSCLPVVPDYSCVPPWHPVGTAYGGSSQIHGAINPGPIGCIAPSPPASHYVPQGM |
| 150 | sp|Q6P6J4|ALKB2\_MOUSE | MDKFLVRPDLRDLQGGGEEPAPTGGASGDLKSPDWRHLRAEGLSCDYTVLFGKAEADKIFRELEQEVEYFTGALAKVQVFGKWHSVPRKQATYGDAGLTYTFSGLTLTPKPWVPVLERVRDRVCEVTGQTFNFVLVNRYKDGCDHIGEHRDDERELAPGSPIASVSFGACRDFIFRHKDSRGKRPRRTVEVVRLQLAHGSLLMMNPPTNTHWYHSLPIRKRVLAPRVNLTFRKILPTKK |
| 151 | sp|P35318|ADML\_HUMAN | MKLVSVALMYLGSLAFLGADTARLDVASEFRKKWNKWALSRGKRELRMSSSYPTGLADVKAGPAQTLIRPQDMKGASRSPEDSSPDAARIRVKRYRQSMNNFQGLRSFGCRFGTCTVQKLAHQIYQFTDKDKDNVAPRSKISPQGYGRRRRRSLPEAGPGRTLVSSKPQAHGAPAPPSGSAPHFL |
| 152 | sp|Q8N556|AFAP1\_HUMAN | MEELIVELRLFLELLDHEYLTSTVREKKAVITNILLRIQSSKGFDVKDHAQKQETANSLPAPPQMPLPEIPQPWLPPDSGPPPLPTSSLPEGYYEEAVPLSPGKAPEYITSNYDSDAMSSSYESYDEEEEDGKGKKTRHQWPSEEASMDLVKDAKICAFLLRKKRFGQWTKLLCVIKDTKLLCYKSSKDQQPQMELPLQGCNITYIPKDSKKKKHELKITQQGTDPLVLAVQSKEQAEQWLKVIKEAYSGCSGPVDSECPPPPSSPVHKAELEKKLSSERPSSDGEGVVENGITTCNGKEQVKRKKSSKSEAKGTVSKVTGKKITKIISLGKKKPSTDEQTSSAEEDVPTCGYLNVLSNSRWRERWCRVKDNKLIFHKDRTDLKTHIVSIPLRGCEVIPGLDSKHPLTFRLLRNGQEVAVLEASSSEDMGRWIGILLAETGSSTDPEALHYDYIDVEMSASVIQTAKQTFCFMNRRVISANPYLGGTSNGYAHPSGTALHYDDVPCINGSLKGKKPPVASNGVTGKGKTLSSQPKKADPAAVVKRTGSNAAQYKYGKNRVEADAKRLQTKEEELLKRKEALRNRLAQLRKERKDLRAAIEVNAGRKPQAILEEKLKQLEEECRQKEAERVSLELELTEVKESLKKALAGGVTLGLAIEPKSGTSSPQSPVFRHRTLENSPISSCDTSDTEGPVPVNSAAVLKKSQAAPGSSPCRGHVLRKAKEWELKNGT |
| 153 | sp|P31224|ACRB\_ECOLI | MPNFFIDRPIFAWVIAIIIMLAGGLAILKLPVAQYPTIAPPAVTISASYPGADAKTVQDTVTQVIEQNMNGIDNLMYMSSNSDSTGTVQITLTFESGTDADIAQVQVQNKLQLAMPLLPQEVQQQGVSVEKSSSSFLMVVGVINTDGTMTQEDISDYVAANMKDAISRTSGVGDVQLFGSQYAMRIWMNPNELNKFQLTPVDVITAIKAQNAQVAAGQLGGTPPVKGQQLNASIIAQTRLTSTEEFGKILLKVNQDGSRVLLRDVAKIELGGENYDIIAEFNGQPASGLGIKLATGANALDTAAAIRAELAKMEPFFPSGLKIVYPYDTTPFVKISIHEVVKTLVEAIILVFLVMYLFLQNFRATLIPTIAVPVVLLGTFAVLAAFGFSINTLTMFGMVLAIGLLVDDAIVVVENVERVMAEEGLPPKEATRKSMGQIQGALVGIAMVLSAVFVPMAFFGGSTGAIYRQFSITIVSAMALSVLVALILTPALCATMLKPIAKGDHGEGKKGFFGWFNRMFEKSTHHYTDSVGGILRSTGRYLVLYLIIVVGMAYLFVRLPSSFLPDEDQGVFMTMVQLPAGATQERTQKVLNEVTHYYLTKEKNNVESVFAVNGFGFAGRGQNTGIAFVSLKDWADRPGEENKVEAITMRATRAFSQIKDAMVFAFNLPAIVELGTATGFDFELIDQAGLGHEKLTQARNQLLAEAAKHPDMLTSVRPNGLEDTPQFKIDIDQEKAQALGVSINDINTTLGAAWGGSYVNDFIDRGRVKKVYVMSEAKYRMLPDDIGDWYVRAADGQMVPFSAFSSSRWEYGSPRLERYNGLPSMEILGQAAPGKSTGEAMELMEQLASKLPTGVGYDWTGMSYQERLSGNQAPSLYAISLIVVFLCLAALYESWSIPFSVMLVVPLGVIGALLAATFRGLTNDVYFQVGLLTTIGLSAKNAILIVEFAKDLMDKEGKGLIEATLDAVRMRLRPILMTSLAFILGVMPLVISTGAGSGAQNAVGTGVMGGMVTATVLAIFFVPVFFVVVRRRFSRKNEDIEHSHTVDHH |
| 154 | sp|Q9UKQ2|ADA28\_HUMAN | MLQGLLPVSLLLSVAVSAIKELPGVKKYEVVYPIRLHPLHKREAKEPEQQEQFETELKYKMTINGKIAVLYLKKNKNLLAPGYTETYYNSTGKEITTSPQIMDDCYYQGHILNEKVSDASISTCRGLRGYFSQGDQRYFIEPLSPIHRDGQEHALFKYNPDEKNYDSTCGMDGVLWAHDLQQNIALPATKLVKLKDRKVQEHEKYIEYYLVLDNGEFKRYNENQDEIRKRVFEMANYVNMLYKKLNTHVALVGMEIWTDKDKIKITPNASFTLENFSKWRGSVLSRRKRHDIAQLITATELAGTTVGLAFMSTMCSPYSVGVVQDHSDNLLRVAGTMAHEMGHNFGMFHDDYSCKCPSTICVMDKALSFYIPTDFSSCSRLSYDKFFEDKLSNCLFNAPLPTDIISTPICGNQLVEMGEDCDCGTSEECTNICCDAKTCKIKATFQCALGECCEKCQFKKAGMVCRPAKDECDLPEMCNGKSGNCPDDRFQVNGFPCHHGKGHCLMGTCPTLQEQCTELWGPGTEVADKSCYNRNEGGSKYGYCRRVDDTLIPCKANDTMCGKLFCQGGSDNLPWKGRIVTFLTCKTFDPEDTSQEIGMVANGTKCGDNKVCINAECVDIEKAYKSTNCSSKCKGHAVCDHELQCQCEEGWIPPDCDDSSVVFHFSIVVGVLFPMAVIFVVVAMVIRHQSSREKQKKDQRPLSTTGTRPHKQKRKPQMVKAVQPQEMSQMKPHVYDLPVEGNEPPASFHKDTNALPPTVFKDNPVSTPKDSNPKA |
| 155 | sp|Q08462|ADCY2\_HUMAN | MWQEAMRRRRYLRDRSEEAAGGGDGLPRSRDWLYESYYCMSQQHPLIVFLLLIVMGSCLALLAVFFALGLEVEDHVAFLITVPTALAIFFAIFILVCIESVFKKLLRLFSLVIWICLVAMGYLFMCFGGTVSPWDQVSFFLFIIFVVYTMLPFNMRDAIIASVLTSSSHTIVLSVCLSATPGGKEHLVWQILANVIIFICGNLAGAYHKHLMELALQQTYQDTCNCIKSRIKLEFEKRQQERLLLSLLPAHIAMEMKAEIIQRLQGPKAGQMENTNNFHNLYVKRHTNVSILYADIVGFTRLASDCSPGELVHMLNELFGKFDQIAKENECMRIKILGDCYYCVSGLPISLPNHAKNCVKMGLDMCEAIKKVRDATGVDINMRVGVHSGNVLCGVIGLQKWQYDVWSHDVTLANHMEAGGVPGRVHISSVTLEHLNGAYKVEEGDGDIRDPYLKQHLVKTYFVINPKGERRSPQHLFRPRHTLDGAKMRASVRMTRYLESWGAAKPFAHLHHRDSMTTENGKISTTDVPMGQHNFQNRTLRTKSQKKRFEEELNERMIQAIDGINAQKQWLKSEDIQRISLLFYNKVLEKEYRATALPAFKYYVTCACLIFFCIFIVQILVLPKTSVLGISFGAAFLLLAFILFVCFAGQLLQCSKKASPLLMWLLKSSGIIANRPWPRISLTIITTAIILMMAVFNMFFLSDSEETIPPTANTTNTSFSASNNQVAILRAQNLFFLPYFIYSCILGLISCSVFLRVNYELKMLIMMVALVGYNTILLHTHAHVLGDYSQVLFERPGIWKDLKTMGSVSLSIFFITLLVLGRQNEYYCRLDFLWKNKFKKEREEIETMENLNRVLLENVLPAHVAEHFLARSLKNEELYHQSYDCVCVMFASIPDFKEFYTESDVNKEGLECLRLLNEIIADFDDLLSKPKFSGVEKIKTIGSTYMAATGLSAVPSQEHSQEPERQYMHIGTMVEFAFALVGKLDAINKHSFNDFKLRVGINHGPVIAGVIGAQKPQYDIWGNTVNVASRMDSTGVLDKIQVTEETSLVLQTLGYTCTCRGIINVKGKGDLKTYFVNTEMSRSLSQSNVAS |
| 156 | sp|P33121|ACSL1\_HUMAN | MQAHELFRYFRMPELVDFRQYVRTLPTNTLMGFGAFAALTTFWYATRPKPLKPPCDLSMQSVEVAGSGGARRSALLDSDEPLVYFYDDVTTLYEGFQRGIQVSNNGPCLGSRKPDQPYEWLSYKQVAELSECIGSALIQKGFKTAPDQFIGIFAQNRPEWVIIEQGCFAYSMVIVPLYDTLGNEAITYIVNKAELSLVFVDKPEKAKLLLEGVENKLIPGLKIIVVMDAYGSELVERGQRCGVEVTSMKAMEDLGRANRRKPKPPAPEDLAVICFTSGTTGNPKGAMVTHRNIVSDCSAFVKATENTVNPCPDDTLISFLPLAHMFERVVECVMLCHGAKIGFFQGDIRLLMDDLKVLQPTVFPVVPRLLNRMFDRIFGQANTTLKRWLLDFASKRKEAELRSGIIRNNSLWDRLIFHKVQSSLGGRVRLMVTGAAPVSATVLTFLRAALGCQFYEGYGQTECTAGCCLTMPGDWTAGHVGAPMPCNLIKLVDVEEMNYMAAEGEGEVCVKGPNVFQGYLKDPAKTAEALDKDGWLHTGDIGKWLPNGTLKIIDRKKHIFKLAQGEYIAPEKIENIYMRSEPVAQVFVHGESLQAFLIAIVVPDVETLCSWAQKRGFEGSFEELCRNKDVKKAILEDMVRLGKDSGLKPFEQVKGITLHPELFSIDNGLLTPTMKAKRPELRNYFRSQIDDLYSTIKV |
| 157 | sp|Q9CZW4|ACSL3\_MOUSE | MNNHVSSTPSTMKLKQTINPILLYFIHFIISLYTILTYIPFYFLCESKQEKPNQIKAKPVSSKPDSAYRSINSVDGLASVLYPGCDTLDKVFMYAKNKFKNKRLLGTREILNEEDEIQPNGKIFKKVILGHYNWLSYEDVFIRALDFGNGLQMLGQKPKANIAIFCETRAEWMIAAQACFMYNFQLVTLYATLGGPAIVHGLNETEVTNIITSKELLQTKLKDIVSLVPRLRHIITVDGKPPTWSEFPKGVIVHTMAAVQALGVKANVEKKAHSKPLPSDIAVIMYTSGSTGIPKGVMISHSNIIASITGMARRIPRLGEEDVYIGYLPLAHVLELSAELVCLSHGCRIGYSSPQTLADQSSKIKKGSKGDTSVLKPTLMAAVPEIMDRIYKNVMNKVNEMSAFQRNLFILAYNYKMEQISKGCSTPLCDRFVFRNVRRLLGGNIRLLLCGGAPLSATTQRFMNICFCCPVGQGYGLTESTGAGTITEVWDYNTGRVGAPLVCCEIKLKNWEEGGYFNTDKPHPRGEILIGGQNVTMGYYKNEAKTKTDFFEDENGQRWLCTGDIGEFDPDGCLKIIDRKKDLVKLQAGEYVSLGKVEAALKNLPLIDNICAYANSYHSYVIGFVVPNQKELTELARTKGFKGTWEELCNSSEMENEVLKVLSEAAISASLEKFEIPLKIRLSPDPWTPETGLVTDAFKLKRKELKTHYQADIERMYGRK |
| 158 | sp|Q9Y672|ALG6\_HUMAN | MEKWYLMTVVVLIGLTVRWTVSLNSYSGAGKPPMFGDYEAQRHWQEITFNLPVKQWYFNSSDNNLQYWGLDYPPLTAYHSLLCAYVAKFINPDWIALHTSRGYESQAHKLFMRTTVLIADLLIYIPAVVLYCCCLKEISTKKKIANALCILLYPGLILIDYGHFQYNSVSLGFALWGVLGISCDCDLLGSLAFCLAINYKQMELYHALPFFCFLLGKCFKKGLKGKGFVLLVKLACIVVASFVLCWLPFFTEREQTLQVLRRLFPVDRGLFEDKVANIWCSFNVFLKIKDILPRHIQLIMSFCSTFLSLLPACIKLILQPSSKGFKFTLVSCALSFFLFSFQVHEKSILLVSLPVCLVLSEIPFMSTWFLLVSTFSMLPLLLKDELLMPSVVTTMAFFIACVTSFSIFEKTSEEELQLKSFSISVRKYLPCFTFLSRIIQYLFLISVITMVLLTLMTVTLDPPQKLPDLFSVLVCFVSCLNFLFFLVYFNIIIMWDSKSGRNQKKIS |
| 159 | sp|Q540U1|APHA\_SALTM | MKKITLALSAVCLLFTLNHSANALVSSPSTLNPGTNVAKLAEQAPVHWVSVAQIENSLTGRPPMAVGFDIDDTVLFSSPGFWRGKKTYSPDSDDYLKNPAFWEKMNNGWDEFSIPKEVARQLIDMHVRRGDSIYFVTGRSQTKTETVSKTLADNFHIPAANMNPVIFAGDKPEQNTKVQWLQEKNMRIFYGDSDNDITAARDCGIRGIRILRAANSTYKPLPQAGAFGEEVIVNSEY |
| 160 | sp|B9DHT4|ARIA\_ARATH | MDQQPERREGRSFPERKGQKRKLEEGAAAVEDREISAVSTDGGQALLSEVAAQVSVLNSAFSWQESDRAAAKRATQVLAELAKNEDLVNVIVDGGAVPALMTHLQAPPYNDGDLAEKPYEHEVEKGSAFALGLLAIKPEYQKLIVDKGALPHLVNLLKRNKDGSSSRAVNSVIRRAADAITNLAHENSSIKTRVRVEGGIPPLVELLEFSDSKVQRAAAGALRTLAFKNDDNKNQIVECNALPTLILMLGSEDAAIHYEAVGVIGNLVHSSPHIKKEVLTAGALQPVIGLLSSCCPESQREAALLLGQFASTDSDCKVHIVQRGAVRPLIEMLQSPDVQLKEMSAFALGRLAQDAHNQAGIAHSGGLGPLLKLLDSRNGSLQHNAAFALYGLADNEDNVSDFIRVGGIQKLQDGEFIVQATKDCVSKTLKRLEEKIHGRVLRHLLYLMRISEKSIQRRVALALAHLCSPEDQRTIFIDDNGLELLLGLLGSLNTKQQLDGAAALYKLANKSMALSPVDAAPPSPTQRVYLGEQYVNNATLSDVTFLVEGRTFYAHRICLLASSDAFRAMFDGGYREKDARDIEIPNIKWEVFELMMRFIYTGSVDITNEISKDLLRAADQYLLEGLKRLCEYTIAQDITLESIGDMYELSEAFHAMSLRQACIMFILEHFDKLSSMPWQNELVQRTIPEIREYFCRALTKSTTNLQSLRL |
| 161 | sp|Q96Q83|ALKB3\_HUMAN | MEEKRRRARVQGAWAAPVKSQAIAQPATTAKSHLHQKPGQTWKNKEHHLSDREFVFKEPQQVVRRAPEPRVIDREGVYEISLSPTGVSRVCLYPGFVDVKEADWILEQLCQDVPWKQRTGIREDITYQQPRLTAWYGELPYTYSRITMEPNPHWHPVLRTLKNRIEENTGHTFNSLLCNLYRNEKDSVDWHSDDEPSLGRCPIIASLSFGATRTFEMRKKPPPEENGDYTYVERVKIPLDHGTLLIMEGATQADWQHRVPKEYHSREPRVNLTFRTVYPDPRGAPW |
| 162 | sp|Q8NBQ7|AQP11\_HUMAN | MSPLLGLRSELQDTCTSLGLMLSVVLLMGLARVVARQQLHRPVAHAFVLEFLATFQLCCCTHELQLLSEQHPAHPTWTLTLVYFFSLVHGLTLVGTSSNPCGVMMQMMLGGMSPETGAVRLLAQLVSALCSRYCTSALWSLGLTQYHVSERSFACKNPIRVDLLKAVITEAVCSFLFHSALLHFQEVRTKLRIHLLAALITFLVYAGGSLTGAVFNPALALSLHFMCFDEAFPQFFIVYWLAPSLGILLMILMFSFFLPWLHNNHTINKKE |
| 163 | sp|Q63HQ0|AP1AR\_HUMAN | MGNCCWTQCFGLLRKEAGRLQRVGGGGGSKYFRTCSRGEHLTIEFENLVESDEGESPGSSHRPLTEEEIVDLRERHYDSIAEKQKDLDKKIQKELALQEEKLRLEEEALYAAQREAARAAKQRKLLEQERQRIVQQYHPSNNGEYQSSGPEDDFESCLRNMKSQYEVFRSSRLSSDATVLTPNTESSCDLMTKTKSTSGNDDSTSLDLEWEDEEGMNRMLPMRERSKTEEDILRAALKYSNKKTGSNPTSASDDSNGLEWENDFVSAEMDDNGNSEYSGFVNPVLELSDSGIRHSDTDQQTR |
| 164 | sp|I3M072|APOA1\_ICTTR | MKAVVLTVAVLFLTGSQARHFWQQDEPQSSWDRIKDFATVYLDAVKDSGRDYVTQFETSALGKQLNLKLLDNWDSLSSTVSKVREQIGPVSQDFWDKLEKDTVSLRQEMNKDLEEVKRKVQPYLDEFQKRWQEDVERYRQQVEPLSKELREGARQKLLELHEKLSPLGQEMRDRARTHVDALRTHLAPYSDELRQRLAARLEALKEGSSFAEYQAKATEHLSALGEKAKPALEDLRQGLLPVLESLKLSFWSAVDEATKKLNTQ |
| 165 | sp|O60641|AP180\_HUMAN | MSGQTLTDRIAAAQYSVTGSAVARAVCKATTHEVMGPKKKHLDYLIQATNETNVNIPQMADTLFERATNSSWVVVFKALVTTHHLMVHGNERFIQYLASRNTLFNLSNFLDKSGSHGYDMSTFIRRYSRYLNEKAFSYRQMAFDFARVKKGADGVMRTMAPEKLLKSMPILQGQIDALLEFDVHPNELTNGVINAAFMLLFKDLIKLFACYNDGVINLLEKFFEMKKGQCKDALEIYKRFLTRMTRVSEFLKVAEQVGIDKGDIPDLTQAPSSLMETLEQHLNTLEGKKPGNNEGSGAPSPLSKSSPATTVTSPNSTPAKTIDTSPPVDLFATASAAVPVSTSKPSSDLLDLQPDFSSGGAAAAAAPAPPPPAGGATAWGDLLGEDSLAALSSVPSEAQISDPFAPEPTPPTTTAEIATASASASTTTTVTAVTAEVDLFGDAFAASPGEAPAASEGAAAPATPTPVAAALDACSGNDPFAPSEGSAEAAPELDLFAMKPPETSVPVVTPTASTAPPVPATAPSPAPAVAAAAAATTAATAAATTTTTTSAATATTAPPALDIFGDLFESTPEVAAAPKPDAAPSIDLFSTDAFSSPPQGASPVPESSLTADLLSVDAFAAPSPATTASPAKVDSSGVIDLFGDAFGSSASEPQPASQAASSSSASADLLAGFGGSFMAPSPSPVTPAQNNLLQPNFEAAFGTTPSTSSSSSFDPSVFDGLGDLLMPTMAPAGQPAPVSMVPPSPAMAASKALGSDLDSSLASLVGNLGISGTTTKKGDLQWNAGEKKLTGGANWQPKVAPATWSAGVPPSAPLQGAVPPTSSVPPVAGAPSVGQPGAGFGMPPAGTGMPMMPQQPVMFAQPMMRPPFGAAAVPGTQLSPSPTPASQSPKKPPAKDPLADLNIKDFL |
| 166 | sp|P84091|AP2M1\_MOUSE | MIGGLFIYNHKGEVLISRVYRDDIGRNAVDAFRVNVIHARQQVRSPVTNIARTSFFHVKRSNIWLAAVTKQNVNAAMVFEFLYKMCDVMAAYFGKISEENIKNNFVLIYELLDEILDFGYPQNSETGALKTFITQQGIKSQHQTKEEQSQITSQVTGQIGWRREGIKYRRNELFLDVLESVNLLMSPQGQVLSAHVSGRVVMKSYLSGMPECKFGMNDKIVIEKQGKGTADETSKSGKQSIAIDDCTFHQCVRLSKFDSERSISFIPPDGEFELMRYRTTKDIILPFRVIPLVREVGRTKLEVKVVIKSNFKPSLLAQKIEVRIPTPLNTSGVQVICMKGKAKYKASENAIVWKIKRMAGMKESQISAEIELLPTNDKKKWARPPISMNFEVPFAPSGLKVRYLKVFEPKLNYSDHDVIKWVRYIGRSGIYETRC |
| 167 | sp|P55207|ANFC\_RAT | MHLSQLIACALLLALLSLRPSEAKPGTPPKVPRTPPGEELAEPQAAGGNQKKGDKTPGGGGANLKGDRSRLLRDLRVDTKSRAAWARLLHEHPNARKYKGGNKKGLSKGCFGLKLDRIGSMSGLGC |
| 168 | sp|Q15327|ANKR1\_HUMAN | MMVLKVEELVTGKKNGNGEAGEFLPEDFRDGEYEAAVTLEKQEDLKTLLAHPVTLGEQQWKSEKQREAELKKKKLEQRSKLENLEDLEIIIQLKKRKKYRKTKVPVVKEPEPEIITEPVDVPTFLKAALENKLPVVEKFLSDKNNPDVCDEYKRTALHRACLEGHLAIVEKLMEAGAQIEFRDMLESTAIHWASRGGNLDVLKLLLNKGAKISARDKLLSTALHVAVRTGHYECAEHLIACEADLNAKDREGDTPLHDAVRLNRYKMIRLLIMYGADLNIKNCAGKTPMDLVLHWQNGTKAIFDSLRENSYKTSRIATF |
| 169 | sp|Q12675|ATC4\_YEAST | MSSPSKPTSPFVDDIEHESGSASNGLSSMSPFDDSFQFEKPSSAHGNIEVAKTGGSVLKRQSKPMKDISTPDLSKVTFDGIDDYSNDNDINDDDELNGKKTEIHEHENEVDDDLHSFQATPMPNTGGFEDVELDNNEGSNNDSQADHKLKRVRFGTRRNKSGRIDINRSKTLKWAKKNFHNAIDEFSTKEDSLENSALQNRSDELRTVYYNLPLPEDMLDEDGLPLAVYPRNKIRTTKYTPLTFFPKNILFQFHNFANIYFLILLILGAFQIFGVTNPGFASVPLIVIVIITAIKDGIEDSRRTVLDLEVNNTRTHILSGVKNENVAVDNVSLWRRFKKANTRALIKIFEYFSENLTAAGREKKLQKKREELRRKRNSRSFGPRGSLDSIGSYRMSADFGRPSLDYENLNQTMSQANRYNDGENLVDRTLQPNPECRFAKDYWKNVKVGDIVRVHNNDEIPADMILLSTSDVDGACYVETKNLDGETNLKVRQSLKCSKIIKSSRDITRTKFWVESEGPHANLYSYQGNFKWQDTQNGNIRNEPVNINNLLLRGCTLRNTKWAMGMVIFTGDDTKIMINAGVTPTKKSRISRELNFSVILNFVLLFILCFTAGIVNGVYYKQKPRSRDYFEFGTIGGSASTNGFVSFWVAVILYQSLVPISLYISVEIIKTAQAIFIYTDVLLYNAKLDYPCTPKSWNISDDLGQIEYIFSDKTGTLTQNVMEFKKCTINGVSYGRAYTEALAGLRKRQGVDVESEGRREKEEIAKDRETMIDELRSMSDNTQFCPEDLTFVSKEIVEDLKGSSGDHQQKCCEHFLLALALCHSVLVEPNKDDPKKLDIKAQSPDESALVSTARQLGYSFVGSSKSGLIVEIQGVQKEFQVLNVLEFNSSRKRMSCIIKIPGSTPKDEPKALLICKGADSVIYSRLDRTQNDATLLEKTALHLEEYATEGLRTLCLAQRELTWSEYERWVKTYDVAAASVTNREEELDKVTDVIERELILLGGTAIEDRLQDGVPDSIALLAEAGIKLWVLTGDKVETAINIGFSCNVLNNDMELLVVKASGEDVEEFGSDPIQVVNNLVTKYLREKFGMSGSEEELKEAKREHGLPQGNFAVIIDGDALKVALNGEEMRRKFLLLCKNCKAVLCCRVSPAQKAAVVKLVKKTLDVMTLAIGDGSNDVAMIQSADVGVGIAGEEGRQAVMCSDYAIGQFRYVTRLVLVHGKWCYKRLAEMIPQFFYKNVIFTLSLFWYGIYNNFDGSYLFEYTYLTFYNLAFTSVPVILLAVLDQDVSDTVSMLVPQLYRVGILRKEWNQTKFLWYMLDGVYQSVICFFFPYLAYHKNMVVTENGLGLDHRYFVGVFVTAIAVTSCNFYVFMEQYRWDWFCGLFICLSLAVFYGWTGIWTSSSSSNEFYKGAARVFAQPAYWAVLFVGVLFCLLPRFTIDCIRKIFYPKDIEIVREMWLRGDFDLYPQGYDPTDPSRPRINEIRPLTDFKEPISLDTHFDGVSHSQETIVTEEIPMSILNGEQGSRKGYRVSTTLERRDQLSPVTTTNNLPRRSMASARGNKLRTSLDRTREEMLANHQLDTRYSVERARASLDLPGINHAETLLSQRSRDR |
| 170 | sp|Q12406|ARP7\_YEAST | MTLNRKCVVIHNGSHRTVAGFSNVELPQCIIPSSYIKRTDEGGEAEFIFGTYNMIDAAAEKRNGDEVYTLVDSQGLPYNWDALEMQWRYLYDTQLKVSPEELPLVITMPATNGKPDMAILERYYELAFDKLNVPVFQIVIEPLAIALSMGKSSAFVIDIGASGCNVTPIIDGIVVKNAVVRSKFGGDFLDFQVHERLAPLIKEENDMENMADEQKRSTDVWYEASTWIQQFKSTMLQVSEKDLFELERYYKEQADIYAKQQEQLKQMDQQLQYTALTGSPNNPLVQKKNFLFKPLNKTLTLDLKECYQFAEYLFKPQLISDKFSPEDGLGPLMAKSVKKAGASINSMKANTSTNPNGLGTSHINTNVGDNNSTASSSNISPEQVYSLLLTNVIITGSTSLIEGMEQRIIKELSIRFPQYKLTTFANQVMMDRKIQGWLGALTMANLPSWSLGKWYSKEDYETLKRDRKQSQATNATN |
| 171 | sp|Q769J6|ATS13\_MOUSE | MSQLCLWLTCQPCYAVSVRGILTGAIFILGCWGLSDFQKSLLQDLEPKDVSSYFGHHAAPFTGHPPSHLQRLRRRRTLEDILHLELLVAVGPDVSRAHQEDTERYVLTNLNIGSELLRNPSLGVQFQVHLVKLITLSDSESTPNITANITSSLMSVCEWSQTINPHDDRDPSHADLILYITRFDLELPDGNQQVRGVTQLGGACSLSWSCLITEDTGFDLGVTIAHEIGHSFGLDHDGAPGSGSTCKASGHVMAADGATPTGGTLEWSACSQRQLQHLLSTGQMHCFQDPPGLQSGLTRHQLMAQPGLYYSADDQCRVAFGSGAVACTFSREGLDVCQALSCHTDPLDQSSCSRLLVPLLDGTECGVEKWCSKARCRSLAELAPVAAVHGHWSSWGPHSPCSRSCGGGVITRRRWCNNPRPAFGGRACVGEDLQAKMCNTQACEKTQLEFMSEQCAQTDRQPLQLSQGTASFYHWDAAVQYSQGDTLCRHMCWAVGESFIVSRGDRFLDGTRCVPSGPQDDGTLSLCLLGSCRTFGCDGRMDSQKVWDACQVCGGDNSTCSSRNGSFTAGRAREYVTFLIVTPNMTNAHIVNRRPLFTHLAVRIQGHYIVAGKTSISPNTTYPSLLEDYRVEYRVTLTEDQLPHLEEIHIRGPVRDDIEIQVYRRYGGEYGDLTHPDITFSYFQLKQQAAWVWTAKRGPCSVSCGAGLRWVTYSCQDQAQDKWVKNAQCQGSPQPPAWQEPCVSAPCSPYWVAGDFSPCSVSCGGGLRERSLRCVETQDGFLKTLPPARCRAVAQQPAAEVENCNSQPCPTRWEVSDPGPCMSSACEAGLDSRNVTCVSRAGDPEKPETAGPCRTDEMSAMLEPCSRSLCSPGLGQVDNTMSLGEEAPSPVGSDKPGAQAEHVWTPLVGLCSISCGRGLKELYFLCMDSVLKMPVQEELCGLASKPPSRWEVCRARPCPARWETQVLAPCPVTCGGGRVPLSVRCVQLDRGHPISVPHSKCSPVPKPGSFEDCSPEPCPARWKVLSLGPCSASCGLGTATQMVACMQLDQGHDNEVNETFCKALVRPQASVPCLIADCAFRWHISAWTECSVSCGDGIQRRHDTCLGPQAQVPVPANFCQHLPKPMTVRGCWAGPCAGQETSSSLPHKEATLPSQTQAAATVASLQWSQPRARTPTLFSASQSLGLQENLEEHGACGRQYLEPTGTIHMRDQGRLDCVVAIGRPLGEVVTLQILESSLKCSAGEQLLLWGRFTWRKTCRKMPGMTFSTKTNTVVVKQHRVLPGGGVLLRYWSQPAPGTFYKECDRQLFGPRGEIVSPSLSPDGRKAGTCRVFISVAPQARIAIRALASDMGTASEGTNANYVSIRDIHSLRTTTFWGQQVLYWESEGSEAELEFSPGFLEAHASLQGEYWTISPRTSEQDDSLALS |
| 172 | sp|Q811B3|ATS12\_MOUSE | MPCARGSWLAKLSIVAQLINFGAFCHGRQTQPWPVRFPDPRQEHFIKSLPEYHIVSPVQVDAGGHVLSYGLHHPVTSSRKKRAAGGSGDQLYYRISHEEKDLFFNLTVNWEFLSNGYVVEKRYGNLSHVKMVASSGQPCHLRGTVLQQGTTVGIGTAALSACQGLTGFFHLPHGDFFIEPVKKHPLTEEGSYPHVVYRRQSIRAPETKEPICGLKDSLDNSVKQELQREKWERKTLRSRSLSRRSISKERWVETLVVADTKTVEYHGSENVESYILTIMNMVTGLFHSPSIGNLVHIVVVRLILLEEEEQGLKIVHHAEKTLSSFCKWQKSINPKSDLNPVHHDVAVLITRKDICAGVNRPCETLGLSQLSGMCQPHRSCNINEDSGLPLAFTIAHELGHSFGIQHDGKENDCEPVGRHPYIMSQQIQYDPTPLTWSKCSKEYITRFLDRGRGFCLDDIPSKKGLKSNVIAPGVIYDVHHQCQLQYGPNATFCQEVENVCQTLWCSVKGFCRSKLDAAADGTRCGEKKWCMAGKCITVGKKPESIPGGWGRWSPWSHCSRTCGAGAQSAERLCNNPEPKFGGKYCTGERKRYRLCNVHPCRSDTPTFRQMQCSEFDTVPYKNQFYRWFPVFNAAHPCELYCRPIDEQFSERMLEAVIDGTPCFEGGNSRNVCINGICKRVGCDYEIDSNATEDRCGVCLGDGSACQTVKKLFRQKEGSGYVDIGLIPKGARDIRVMEIKAAGNFLAIRSEDPEKYYLNGGFIIQWNGNYKLAGTVFQYDRKGDLEKLIAPGPTNESVWLQLLFQVTNPGIKYEYTVRKDGLDNDVEKLLYFWQFGRWTECSVTCGTGIRRQAAHCVKKGHGIVKTTFCNPETQPSVRQKKCHEKDCPPRWWAGEWEACSTTCGPYGEKKRTVLCIQTMGSDEQALPATDCQHLLKPKALVSCNRDILCPSDWTVGNWSECSVSCGGGVRIRSVTCAKNLNEPCDKTRKPNSRALCGLQQCPFSRRVLKPNKDIAPSGKNQSTAEHDPFKPIPAPTSRPTPLSTPTVPESMSTSTPTINSLGSTIASQEDANGMGWQNNSTQAEEGSHFPTSSGSTSQVPVTSWSLSIQPDDENVSSSAIGPTSEGDFWATTTSDSGLSSSDAMTWQVTPFYSTMTTDPEVEIHSGSGEDSDQPLNKDKSNSVIWNKIGVPEHDAPMETDAELPLGPPPTSYMGEEPSWPPFSTKMEGSLPAWSFKNETPRDDGMIAEKSRKIPLPLAGDHHPATSEKLENHDKLALPNTTNPTQGFGPVLTEEDASNLIAEGFLLNASDYKHLMKDHSPAYWIVGNWSKCSTTCGLGAYWRSVECSSGVDADCTTIQRPDPAKKCHLRPCAGWRVGNWSKCSRNCSGGFKIREVQCMDSLDHHRSLRPFHCQFLAGAPPPLSMSCNLEPCGEWQVEPWSQCSRSCGGGVQERGVSCPGGLCDWTKRPATTVPCNRHLCCHWATGNWELCNTSCGGGSQKRTIHCIPSENSTTEDQDQCLCDHQVKPPEFQTCNQQACRKSADLTCLKDRLSISFCQTLKSMRKCSVPSVRAQCCLSCPQAPSIHTQRQRKQQLLQNHDML |
| 173 | sp|P19156|ATP4A\_PIG | MGKAENYELYQVELGPGPSGDMAAKMSKKKAGRGGGKRKEKLENMKKEMEINDHQLSVAELEQKYQTSATKGLSASLAAELLLRDGPNALRPPRGTPEYVKFARQLAGGLQCLMWVAAAICLIAFAIQASEGDLTTDDNLYLALALIAVVVVTGCFGYYQEFKSTNIIASFKNLVPQQATVIRDGDKFQINADQLVVGDLVEMKGGDRVPADIRILQAQGRKVDNSSLTGESEPQTRSPECTHESPLETRNIAFFSTMCLEGTAQGLVVNTGDRTIIGRIASLASGVENEKTPIAIEIEHFVDIIAGLAILFGATFFIVAMCIGYTFLRAMVFFMAIVVAYVPEGLLATVTVCLSLTAKRLASKNCVVKNLEAVETLGSTSVICSDKTGTLTQNRMTVSHLWFDNHIHSADTTEDQSGQTFDQSSETWRALCRVLTLCNRAAFKSGQDAVPVPKRIVIGDASETALLKFSELTLGNAMGYRERFPKVCEIPFNSTNKFQLSIHTLEDPRDPRHVLVMKGAPERVLERCSSILIKGQELPLDEQWREAFQTAYLSLGGLGERVLGFCQLYLSEKDYPPGYAFDVEAMNFPTSGLSFAGLVSMIDPPRATVPDAVLKCRTAGIRVIMVTGDHPITAKAIAASVGIISEGSETVEDIAARLRVPVDQVNRKDARACVINGMQLKDMDPSELVEALRTHPEMVFARTSPQQKLVIVESCQRLGAIVAVTGDGVNDSPALKKADIGVAMGIAGSDAAKNAADMILLDDNFASIVTGVEQGRLIFDNLKKSIAYTLTKNIPELTPYLIYITVSVPLPLGCITILFIELCTDIFPSVSLAYEKAESDIMHLRPRNPKRDRLVNEPLAAYSYFQIGAIQSFAGFTDYFTAMAQEGWFPLLCVGLRPQWENHHLQDLQDSYGQEWTFGQRLYQQYTCYTVFFISIEMCQIADVLIRKTRRLSAFQQGFFRNRILVIAIVFQVCIGCFLCYCPGMPNIFNFMPIRFQWWLVPMPFGLLIFVYDEIRKLGVRCCPGSWWDQELYY |
| 174 | sp|P06761|BIP\_RAT | MKFTVVAAALLLLCAVRAEEEDKKEDVGTVVGIDLGTTYSCVGVFKNGRVEIIANDQGNRITPSYVAFTPEGERLIGDAAKNQLTSNPENTVFDAKRLIGRTWNDPSVQQDIKFLPFKVVEKKTKPYIQVDIGGGQTKTFAPEEISAMVLTKMKETAEAYLGKKVTHAVVTVPAYFNDAQRQATKDAGTIAGLNVMRIINEPTAAAIAYGLDKREGEKNILVFDLGGGTFDVSLLTIDNGVFEVVATNGDTHLGGEDFDQRVMEHFIKLYKKKTGKDVRKDNRAVQKLRREVEKAKRALSSQHQARIEIESFFEGEDFSETLTRAKFEELNMDLFRSTMKPVQKVLEDSDLKKSDIDEIVLVGGSTRIPKIQQLVKEFFNGKEPSRGINPDEAVAYGAAVQAGVLSGDQDTGDLVLLDVCPLTLGIETVGGVMTKLIPRNTVVPTKKSQIFSTASDNQPTVTIKVYEGERPLTKDNHLLGTFDLTGIPPAPRGVPQIEVTFEIDVNGILRVTAEDKGTGNKNKITITNDQNRLTPEEIERMVNDAEKFAEEDKKLKERIDTRNELESYAYSLKNQIGDKEKLGGKLSPEDKETMEKAVEEKIEWLESHQDADIEDFKAKKKELEEIVQPIISKLYGSGGPPPTGEEDTSEKDEL |
| 175 | sp|Q8MKI5|CASP3\_CANLF | MENTENSVDAKSFKNAETKILHGSKSMDSGMSFDNSYKMDYPEMGLCIIINNKNFHKSTGMAPRSGTDVDAANLRETFTNLKYEVRNKNDLTCEEILELMNSVSKEDHSKRSSFVCVLLSHGDEGIIFGTNGPVDLRKVTGFFRGDYCRSLTGKPKLFIIQACRGTELDCGIETDSGIEDDMACQKIPVEADFLYAYSTAPGYYSWRNSKDGSWFIQSLCAMLKLYAHKLEFMHILTRVNRKVATEFESFSLDSAFHGKKQIPCIVSMLTKELYLYH |
| 176 | sp|P49069|CAMLG\_HUMAN | MESMAVATDGGERPGVPAGSGLSASQRRAELRRRKLLMNSEQRINRIMGFHRPGSGAEEESQTKSKQQDSDKLNSLSVPSVSKRVVLGDSVSTGTTDQQGGVAEVKGTQLGDKLDSFIKPPECSSDVNLELRQRNRGDLTADSVQRGSRHGLEQYLSRFEEAMKLRKQLISEKPSQEDGNTTEEFDSFRIFRLVGCALLALGVRAFVCKYLSIFAPFLTLQLAYMGLYKYFPKSEKKIKTTVLTAALLLSGIPAEVINRSMDTYSKMGEVFTDLCVYFFTFIFCHELLDYWGSEVP |
| 177 | sp|Q9NYX4|CALY\_HUMAN | MVKLGCSFSGKPGKDPGDQDGAAMDSVPLISPLDISQLQPPLPDQVVIKTQTEYQLSSPDQQNFPDLEGQRLNCSHPEEGRRLPTARMIAFAMALLGCVLIMYKAIWYDQFTCPDGFLLRHKICTPLTLEMYYTEMDPERHRSILAAIGAYPLSRKHGTETPAAWGDGYRAAKEERKGPTQAGAAAAATEPPGKPSAKAEKEAARKAAGSAAPPPAQ |
| 178 | sp|P48284|CAH4\_RAT | MQLLLALLALAYVAPSTEDSHWCYEIQAKEPNSHCSGPEQWTGDCKKNQQSPINIVTSKTKLNPSLTPFTFVGYDQKKKWEVKNNQHSVEMSLGEDIYIFGGDLPTQYKAIQLHLHWSEESNKGSEHSIDGKHFAMEMHVVHKKMTTGDKVQDSDSKDKIAVLAFMVEVGNEVNEGFQPLVEALSRLSKPFTNSTVSESCLQDMLPEKKKLSAYFRYQGSLTTPGCDETVIWTVFEEPIKIHKDQFLEFSKKLYYDQEQKLNMKDNVRPLQPLGNRQVFRSHASGRLLSLPLPTLLVPTLTCLVASFLH |
| 179 | sp|Q9UI42|CBPA4\_HUMAN | MRWILFIGALIGSSICGQEKFFGDQVLRINVRNGDEISKLSQLVNSNNLKLNFWKSPSSFNRPVDVLVPSVSLQAFKSFLRSQGLEYAVTIEDLQALLDNEDDEMQHNEGQERSSNNFNYGAYHSLEAIYHEMDNIAADFPDLARRVKIGHSFENRPMYVLKFSTGKGVRRPAVWLNAGIHSREWISQATAIWTARKIVSDYQRDPAITSILEKMDIFLLPVANPDGYVYTQTQNRLWRKTRSRNPGSSCIGADPNRNWNASFAGKGASDNPCSEVYHGPHANSEVEVKSVVDFIQKHGNFKGFIDLHSYSQLLMYPYGYSVKKAPDAEELDKVARLAAKALASVSGTEYQVGPTCTTVYPASGSSIDWAYDNGIKFAFTFELRDTGTYGFLLPANQIIPTAEETWLGLKTIMEHVRDNLY |
| 180 | sp|Q72EC8|CBIKP\_DESVH | MSRHPMVTRLLCLVFSCLIILACSPAFAGHGAPKAQKTGILLVAFGTSVEEARPALDKMGDRVRAAHPDIPVRWAYTAKMIRAKLRAEGIAAPSPAEALAGMAEEGFTHVAVQSLHTIPGEEFHGLLETAHAFQGLPKGLTRVSVGLPLIGTTADAEAVAEALVASLPADRKPGEPVVFMGHGTPHPADICYPGLQYYLWRLDPDLLVGTVEGSPSFDNVMAELDVRKAKRVWLMPLMAVAGDHARNDMAGDEDDSWTSQLARRGIEAKPVLHGTAESDAVAAIWLRHLDDALARLN |
| 181 | sp|Q5A8N2|CARP4\_CANAL | MFLQNILSVLAFALLIDAAPVKRSTGFVTLDFNVKRSLVDPKDPTVEVKRSPLFLDIEPTEIPVDDTGRNDVGKRGPVAVKLDNEIITYSADITIGSNNQKLSVIVDTGSSDLWVPDSNAVCIPKWPGDRGDFCKNNGSYSPAASSTSKNLNTPFEIKYADGSVAQGNLYQDTVGIGGVSVRDQLFANVRSTSAHKGILGIGFQSNEATRTPYDNLPITLKKQGIISKNAYSLFLNSPEASSGQIIFGGIDKAKYSGSLVDLPITSDRTLSVGLRSVNVMGQNVNVNAGVLLDSGTTISYFTPNIARSIIYALGGQVHYDSSGNEAYVADCKTSGTVDFQFDRNLKISVPASEFLYQLYYTNGEPYPKCEIRVRESEDNILGDNFMRSAYIVYDLDDRKISMAQVKYTSQSNIVAIN |
| 182 | sp|Q9JHX4|CASP8\_RAT | MDFHSCLYDIAERLGNEELAALKFLCLDHIPQKKQESINDVLVLFQRLQEEGMLEEDNLSFLKELLFHISRRDLLSRVLKSSPEEMVRELQVLGKAQVSAYRVMLFKLSEDMDKEDLKSFKFLLITEIPKCKLQDNSSLLDIFVEMEKRTILAENNLVTLKSICFRVNRSLLGRIDDYERSSTERRMSTEGGEELPVSVLDEVTIKMQDMWDSPGEQESESLNSDNVYQMKSKPRGYCLIFNNNNFSKAREDIPKLSNMRDRKGTNYDEEALSKTFKELHFEIVSFSDCTASQIHEVLVSYQSKDHKGKDCFICCILSHGDKGIVYGTDGKEASIYELTSYFTGSKCPSLAGKPKIFFIQACQGNNFQKAVPVPDETGLEQEHVLEEDSSSYKNYIPDEADFLLGMATVKNCVSYRDPTRGTWYIQSLCQSLRERCPRGEDILSILTGVNYDVSNKDNPRNMGKQMPQPIFTLRKKLFFPPN |
| 183 | sp|Q96BS2|CHP3\_HUMAN | MGAAHSASEEVRELEGKTGFSSDQIEQLHRRFKQLSGDQPTIRKENFNNVPDLELNPIRSKIVRAFFDNRNLRKGPSGLADEINFEDFLTIMSYFRPIDTTMDEEQVELSRKEKLRFLFHMYDSDSDGRITLEEYRNVVEELLSGNPHIEKESARSIADGAMMEAASVCMGQMEPDQVYEGITFEDFLKIWQGIDIETKMHVRFLNMETMALCH |
| 184 | sp|P25819|CATA2\_ARATH | MDPYKYRPASSYNSPFFTTNSGAPVWNNNSSMTVGPRGPILLEDYHLVEKLANFDRERIPERVVHARGASAKGFFEVTHDISNLTCADFLRAPGVQTPVIVRFSTVIHERGSPETLRDPRGFAVKFYTREGNFDLVGNNFPVFFIRDGMKFPDMVHALKPNPKSHIQENWRILDFFSHHPESLNMFTFLFDDIGIPQDYRHMDGSGVNTYMLINKAGKAHYVKFHWKPTCGVKSLLEEDAIRVGGTNHSHATQDLYDSIAAGNYPEWKLFIQIIDPADEDKFDFDPLDVTKTWPEDILPLQPVGRMVLNKNIDNFFAENEQLAFCPAIIVPGIHYSDDKLLQTRVFSYADTQRHRLGPNYLQLPVNAPKCAHHNNHHEGFMNFMHRDEEVNYFPSRYDQVRHAEKYPTPPAVCSGKRERCIIEKENNFKEPGERYRTFTPERQERFIQRWIDALSDPRITHEIRSIWISYWSQADKSLGQKLASRLNVRPSI |
| 185 | sp|P16228|CATE\_RAT | MKPLFVLLLLLLLLDLAQAQGVLHRVPLRRHQSLRKKLRAQGQLSDFWRSHNLDMIEFSESCNVDKGINEPLINYLDMEYFGTVSIGSPSQNFTVIFDTGSSNLWVPSVYCTSPACKAHPVFHPSQSSTYMEVGNHFSIQYGTGSLTGIIGADQVSVEGLTVEGQQFGESVKEPGQTFVNAEFDGILGLGYPSLAVGGVTPVFDNMMAQNLVALPMFSVYLSSDPQGGSGSELTFGGYDPSHFSGSLNWIPVTKQGYWQIALDGIQVGDTVMFCSEGCQAIVDTGTSLITGPPKKIKQLQEAIGATPMDGEYAVDCATLNMMPNVTFLINGVSYTLSPTAYILPDLVDGMQFCGSGFQGLDIQPPAGPLWILGDVFIRKFYSVFDRGNNQVGLAPAVP |
| 186 | sp|O13289|CATA\_CANAL | MAPTFTNSNGQPIPEPFATQRVGQHGPLLLQDFNLIDSLAHFDRERIPERVVHAKGSGAYGVFEVTDDITDICAAKFLDTVGKKTRIFTRFSTVGGELGSADTARDPRGFATKFYTEEGNLDLVYNNTPVFFIRDPSKFPHFIHTQKRNPETHLKDANMFWDYLTSNEESIHQVMVLFSDRGTPASYREMNGYSGHTYKWSNKKGEWFYVQVHFISDQGIKTLTNEEAGALAGSNPDYAQEDLFKNIAAGNYPSWTAYIQTMTEAEAKEAEFSVFDLTKVWPHKKYPLRRFGKFTLNENPKNYFAEVEQAAFSPAHTVPYMEPSADPVLQSRLFSYADTHRHRLGTNYTQIPVNCPVTGAVFNPHMRDGAMTVNGNLGSHPNYLASDKPVEFKQFSLQEDQEVWNGAATPFHWKATPADFKQAQELWKVLKRYPNQQEHLAHNIAVHAAGADAAIQDRVFAYFGKVSQDLADAIKKEVLELSPRK |
| 187 | sp|O76337|CED6\_CAEEL | MAKDIYKTFKRSVSGIVGGNNINGEGSSSPSTSAPQVKYRGGTGRTWIHPPDYLINGHVEYVARFLGCVETPKANGSDVAREAIHAIRFQRDLKRSEQTRETAKLQKVEIRISIDNVIIADIKTKAPMYTFPLGRISFCADDKDDKRMFSFIARAEGASGKPSCYAFTSEKLAEDITLTIGEAFDLAYKRFLDKNRTSLENQKQIYILKKKIVELETENQVLIERLAEALRANSKADYENTGPPIYPGLGPPALPLSPMPQGPPPNIPPSSIYSMPRANDLPPTEMAPTLPQISTSSNGASPSVSPASTSPSGPAPSIPPPRPPALAPPPPVAPRRNPVVSPKNSTAGLLDGLELGSAEPAKKAPSNIFDDSFDPRAGEKKSTAAEYNPFGADFLSGIQNGKEAPPSASAELLASEAIARLPKPESSSVPPKKTAAEYDAMINEVEKKLAAMSSGSFEFGQLQTGDLGGIEGESDYGTPSDRLNPKMMNLKQ |
| 188 | sp|Q9JHW1|CBPD\_RAT | MASGWDERPPWRLESLRLLPPPPLLLLLLLLRSSAQAAHIKKAEATTTTVGGSEAAEGQFDHYYHEAALGEALEAAAAAGPPGLARLFSIGNSVEGRPLWVLRLTAGLGPPPTPAAVGLDAAGPLLPGRPQVKLVGNMHGDETVSRQVLVYLARELASGYRRGDPRLVRLLNTTDVYLLPSLNPDGFERAREGDCGLGDSGPPGTSGRDNSRGRDLNRSFPDQFSTGEPPSLDEVPEVRALIDWIRRNKFVLSGNLHGGSVVASYPFDDSPEHKTTGIYSKTSDDEVFRYLAKAYASNHPIMRTGEPHCPGDEEETFKDGITNGAHWYDVEGGMQDYNYVWANCFEITLELSCCKYPPASQLRQEWENNRESLITLIEKVHIGIKGFVKDSVTGSGLENATISVAGINHNITTGRFGDFHRLLIPGSYNLTAVSPGYMPLTINNIVVKEGPATEIDFSLQPTVMSVVPDSTEAVTTPGTVAVPNIPPGTPSSHQPIQPKDFHHHHFPDMEIFLRRFANEYPNITRLYSLGKSVESRELYVMEISDNPGVHEPGEPEFKYIGNMHGNEVVGRELLLNLIEYLCKNFGTDPEVTDLVRSTRIHLMPSMNPDGYEKSQEGDSISVVGRNNSNNFDLNRNFPDQFVPITDPTQPETIAVMSWVKAYPFVLSANLHGGSLVVNYPYDDNEQGVATYSKSPDDAVFQQIALSYSKENSQMFQGRPCKDMYLNEYFPHGITNGASWYNVPGGMQDWNYLQTNCFEVTIELGCVKYPFEKELPKYWEQNRRSLIQFMKQVHQGVKGFVLDATDGRGILNATLSVAEINHPVTTYKAGDYWRLLVPGTYKITASARGYNPVTKNVTVRSEGAIQVNFTLVRSSTDANNESKKGKGHSTSTDDTSDPTSKEFEALIKHLSAENGLEGFMLSSSSDLALYRYHSYKDLSEFLRGLVMNYPHITNLTTLGQSVEYRHIWSLEISNKPNISEPEEPKIRFVAGIHGNAPVGTELLLALAEFLCLNYKKNPVVTQLVDRTRIVIVPSLNPDGRERAQEKDCTSKTGHTNARGRDLDTDFTSNASQPETKAIIENLIQKQDFSLSIALDGGSVLVTYPYDKPVQTVENKETLKHLASLYANNHPSMHMGQPSCPNNSDENIPGGVMRGAEWHSHLGSMKDYSVTYGHCPEITVYTSCCYFPSAAQLPALWAENKKSLLSMLVEVHKGVHGLVKDKTGKPISKAVIVLNEGIRVHTKEGGYFHVLLAPGVHNINAIADGYQQQHSQVFVHHDAASSVVIVFDTDNRIFGLPRELVVTVSGATMSALILTACIIWCICSIKSNRHKDGFHRLRQHHDEYEDEIRMMSTGSKKSLLSHEFQDETDTEEETLYSSKH |
| 189 | sp|P48442|CASR\_RAT | MASYSCCLALLALAWHSSAYGPDQRAQKKGDIILGGLFPIHFGVAAKDQDLKSRPESVECIRYNFRGFRWLQAMIFAIEEINSSPSLLPNMTLGYRIFDTCNTVSKALEATLSFVAQNKIDSLNLDEFCNCSEHIPSTIAVVGATGSGVSTAVANLLGLFYIPQVSYASSSRLLSNKNQYKSFLRTIPNDEHQATAMADIIEYFRWNWVGTIAADDDYGRPGIEKFREEAEERDICIDFSELISQYSDEEEIQQVVEVIQNSTAKVIVVFSSGPDLEPLIKEIVRRNITGRIWLASEAWASSSLIAMPEYFHVVGGTIGFGLKAGQIPGFREFLQKVHPRKSVHNGFAKEFWEETFNCHLQEGAKGPLPVDTFVRSHEEGGNRLLNSSTAFRPLCTGDENINSVETPYMDYEHLRISYNVYLAVYSIAHALQDIYTCLPGRGLFTNGSCADIKKVEAWQVLKHLRHLNFTNNMGEQVTFDECGDLVGNYSIINWHLSPEDGSIVFKEVGYYNVYAKKGERLFINEEKILWSGFSREVPFSNCSRDCQAGTRKGIIEGEPTCCFECVECPDGEYSGETDASACDKCPDDFWSNENHTSCIAKEIEFLAWTEPFGIALTLFAVLGIFLTAFVLGVFIKFRNTPIVKATNRELSYLLLFSLLCCFSSSLFFIGEPQDWTCRLRQPAFGISFVLCISCILVKTNRVLLVFEAKIPTSFHRKWWGLNLQFLLVFLCTFMQILICIIWLYTAPPSSYRNHELEDEIIFITCHEGSLMALGSLIGYTCLLAAICFFFAFKSRKLPENFNEAKFITFSMLIFFIVWISFIPAYASTYGKFVSAVEVIAILAASFGLLACIFFNKVYIILFKPSRNTIEEVRSSTAAHAFKVAARATLRRPNISRKRSSSLGGSTGSIPSSSISSKSNSEDRFPQPERQKQQQPLSLTQQEQQQQPLTLHPQQQQQPQQPRCKQKVIFGSGTVTFSLSFDEPQKNAMAHRNSMRQNSLEAQRSNDTLGRHQALLPLQCADADSEMTIQETGLQGPMVGDHQPEMESSDEMSPALVMSTSRSFVISGGGSSVTENVLHS |
| 190 | sp|Q90694|CDC42\_CHICK | MQTIKCVVVGDGAVGKTCLLISYTTNKFPSEYVPTVFDNYAVTVMIGGEPYTLGLFDTAGQEDYDRLRPLSYPQTDVFLVCFSVVSPSSFENVKEKWVPEITHHCPKTPFLLVGTQIDLRDDPSTIEKLAKNKQKPITPETAEKLARDLKAVKYVECSALTQKGLKNVFDEAILAALEPPEPKKTRRCVLL |
| 191 | sp|P80067|CATC\_RAT | MGPWTHSLRAALLLVLLGVCTVSSDTPANCTYPDLLGTWVFQVGPRHPRSHINCSVMEPTEEKVVIHLKKLDTAYDEVGNSGYFTLIYNQGFEIVLNDYKWFAFFKYEVKGSRAISYCHETMTGWVHDVLGRNWACFVGKKMANHSEKVYVNVAHLGGLQEKYSERLYSHNHNFVKAINSVQKSWTATTYEEYEKLSIRDLIRRSGHSGRILRPKPAPITDEIQQQILSLPESWDWRNVRGINFVSPVRNQESCGSCYSFASLGMLEARIRILTNNSQTPILSPQEVVSCSPYAQGCDGGFPYLIAGKYAQDFGVVEENCFPYTATDAPCKPKENCLRYYSSEYYYVGGFYGGCNEALMKLELVKHGPMAVAFEVHDDFLHYHSGIYHHTGLSDPFNPFELTNHAVLLVGYGKDPVTGLDYWIVKNSWGSQWGESGYFRIRRGTDECAIESIAMAAIPIPKL |
| 192 | sp|P49192|CART\_RAT | MESSRLRLLPVLGAALLLLLPLLGAGAQEDAELQPRALDIYSAVDDASHEKELPRRQLRAPGAVLQIEALQEVLKKLKSKRIPIYEKKYGQVPMCDAGEQCAVRKGARIGKLCDCPRGTSCNSFLLKCL |
| 193 | sp|P25774|CATS\_HUMAN | MKRLVCVLLVCSSAVAQLHKDPTLDHHWHLWKKTYGKQYKEKNEEAVRRLIWEKNLKFVMLHNLEHSMGMHSYDLGMNHLGDMTSEEVMSLMSSLRVPSQWQRNITYKSNPNRILPDSVDWREKGCVTEVKYQGSCGACWAFSAVGALEAQLKLKTGKLVSLSAQNLVDCSTEKYGNKGCNGGFMTTAFQYIIDNKGIDSDASYPYKAMDQKCQYDSKYRAATCSKYTELPYGREDVLKEAVANKGPVSVGVDARHPSFFLYRSGVYYEPSCTQNVNHGVLVVGYGDLNGKEYWLVKNSWGHNFGEEGYIRMARNKGNHCGIASFPSYPEI |
| 194 | sp|Q9WTV1|CH3L1\_RAT | MTLQLPGFAVLMLLQSCSAYKLVCYYTNWSQYREGNGSCFPDALDHSLCTHIIYSFANISNNKLSTSEWNDVTLYGMLNTLKTRNPRLKTLLSVGGWSFGSERFSRIVSNAKSRKTFVQSVAPFLRTYGFDGLDLAWLYPGPKDKQHFTTLIKELKAEFTKEVQPGTEKLLLSAAVSAGKVTLDSGYDVAQIAQHLDFINLMTYDFHGTWRHTTGHHSPLFRGQQDTGPDRFSNVDYGVGYMLRLGAPTNKLVMGIPTFGKSFTLASSENQVGAPITGSGLPGRYTKEKGTLAYYEICDFLRGAEVHRILGQQVPFATKGNQWVGYDDPESVKNKVKYLKNKQLAGAMVWAVDLDDFRGSFCGHNVHFPLTNAIKEALAVA |
| 195 | sp|Q9H2X0|CHRD\_HUMAN | MPSLPAPPAPLLLLGLLLLGSRPARGAGPEPPVLPIRSEKEPLPVRGAAGCTFGGKVYALDETWHPDLGEPFGVMRCVLCACEAPQWGRRTRGPGRVSCKNIKPECPTPACGQPRQLPGHCCQTCPQERSSSERQPSGLSFEYPRDPEHRSYSDRGEPGAEERARGDGHTDFVALLTGPRSQAVARARVSLLRSSLRFSISYRRLDRPTRIRFSDSNGSVLFEHPAAPTQDGLVCGVWRAVPRLSLRLLRAEQLHVALVTLTHPSGEVWGPLIRHRALAAETFSAILTLEGPPQQGVGGITLLTLSDTEDSLHFLLLFRGLLEPRSGGLTQVPLRLQILHQGQLLRELQANVSAQEPGFAEVLPNLTVQEMDWLVLGELQMALEWAGRPGLRISGHIAARKSCDVLQSVLCGADALIPVQTGAAGSASLTLLGNGSLIYQVQVVGTSSEVVAMTLETKPQRRDQRTVLCHMAGLQPGGHTAVGICPGLGARGAHMLLQNELFLNVGTKDFPDGELRGHVAALPYCGHSARHDTLPVPLAGALVLPPVKSQAAGHAWLSLDTHCHLHYEVLLAGLGGSEQGTVTAHLLGPPGTPGPRRLLKGFYGSEAQGVVKDLEPELLRHLAKGMASLMITTKGSPRGELRGQVHIANQCEVGGLRLEAAGAEGVRALGAPDTASAAPPVVPGLPALAPAKPGGPGRPRDPNTCFFEGQQRPHGARWAPNYDPLCSLCTCQRRTVICDPVVCPPPSCPHPVQAPDQCCPVCPEKQDVRDLPGLPRSRDPGEGCYFDGDRSWRAAGTRWHPVVPPFGLIKCAVCTCKGGTGEVHCEKVQCPRLACAQPVRVNPTDCCKQCPVGSGAHPQLGDPMQADGPRGCRFAGQWFPESQSWHPSVPPFGEMSCITCRCGAGVPHCERDDCSLPLSCGSGKESRCCSRCTAHRRPAPETRTDPELEKEAEGS |
| 196 | sp|Q8AYC9|CHK1\_CHICK | MAVPFVEDWDLVQTLGEGAYGEVQLAVNRRTEEAVAVKIVDMKRAADCPENIKKEICINKMLNHENVVKFYGHRREGATQYLFLEYCSGGELFDRIEPDIGMPEPEAQRFFQQLIAGVVYLHSMGITHRDLKPENLLLDERDNLKISDFGLATVFKHNGRERLLNKMCGTLPYVAPELLRRPEFRAEPVDVWACGVVLTAMLAGELPWDQPSDSCQEYSDWKERKTYLAPWRKIDSAPLALLHKILTENPTARITIPDIKKDRWYCRPLKKGTKRGRVSSGGVTESPGALPKHIRSDTDFSPVKSALGEDKASYSTSQPEPGTGGALWDSSTGSIDRLVQGISFSQPACPEHMLLNSQLLGTPGSSQSPWQRLVRRMTRFFTKLDADGSYRSLRDVCEKMGYGWKQSCTNQVTISTTDRRNNKLIFKVNLLEMESRILVDFRLSKGDGLEFKRHFLKIKGKLSDVVSTQKVWLPPP |
| 197 | sp|P63305|CD40L\_CERAT | MIETYNQPSPRSAATGLPVRMKIFMYLLTIFLITQMIGSALFAVYLHRRLDKIEDERNLHEDFVFMKTIQRCNTGERSLSLLNCEEIKSQFEGFVKDIMLNKEEKKKENSFEMQKGDQNPQIAAHVISEASSKTTSVLQWAEKGYYTMSNNLVTLENGKQLTVKRQGLYYIYAQVTFCSNREASSQAPFIASLCLKSPGRFERILLRAANTHSSAKPCGQQSIHLGGVFELQPGASVFVNVTDPSQVSHGTGFTSFGLLKL |
| 198 | sp|Q96JM3|CHAP1\_HUMAN | MEAFQELRKPSARLECDHCSFRGTDYENVQIHMGTIHPEFCDEMDAGGLGKMIFYQKSAKLFHCHKCFFTSKMYSNVYYHITSKHASPDKWNDKPKNQLNKETDPVKSPPLPEHQKIPCNSAEPKSIPALSMETQKLGSVLSPESPKPTPLTPLEPQKPGSVVSPELQTPLPSPEPSKPASVSSPEPPKSVPVCESQKLAPVPSPEPQKPAPVSPESVKATLSNPKPQKQSHFPETLGPPSASSPESPVLAASPEPWGPSPAASPESRKSARTTSPEPRKPSPSESPEPWKPFPAVSPEPRRPAPAVSPGSWKPGPPGSPRPWKSNPSASSGPWKPAKPAPSVSPGPWKPIPSVSPGPWKPTPSVSSASWKSSSVSPSSWKSPPASPESWKSGPPELRKTAPTLSPEHWKAVPPVSPELRKPGPPLSPEIRSPAGSPELRKPSGSPDLWKLSPDQRKTSPASLDFPESQKSSRGGSPDLWKSSFFIEPQKPVFPETRKPGPSGPSESPKAASDIWKPVLSIDTEPRKPALFPEPAKTAPPASPEARKRALFPEPRKHALFPELPKSALFSESQKAVELGDELQIDAIDDQKCDILVQEELLASPKKLLEDTLFPSSKKLKKDNQESSDAELSSSEYIKTDLDAMDIKGQESSSDQEQVDVESIDFSKENKMDMTSPEQSRNVLQFTEEKEAFISEEEIAKYMKRGKGKYYCKICCCRAMKKGAVLHHLVNKHNVHSPYKCTICGKAFLLESLLKNHVAAHGQSLLKCPRCNFESNFPRGFKKHLTHCQSRHNEEANKKLMEALEPPLEEQQI |
| 199 | sp|Q8C6L5|CGAS\_MOUSE | MEDPRRRTTAPRAKKPSAKRAPTQPSRTRAHAESCGPQRGARSRRAERDGDTTEKPRAPGPRVHPARATELTKDAQPSAMDAAGATARPAVRVPQQQAILDPELPAVREPQPPADPEARKVVRGPSHRRGARSTGQPRAPRGSRKEPDKLKKVLDKLRLKRKDISEAAETVNKVVERLLRRMQKRESEFKGVEQLNTGSYYEHVKISAPNEFDVMFKLEVPRIELQEYYETGAFYLVKFKRIPRGNPLSHFLEGEVLSATKMLSKFRKIIKEEVKEIKDIDVSVEKEKPGSPAVTLLIRNPEEISVDIILALESKGSWPISTKEGLPIQGWLGTKVRTNLRREPFYLVPKNAKDGNSFQGETWRLSFSHTEKYILNNHGIEKTCCESSGAKCCRKECLKLMKYLLEQLKKEFQELDAFCSYHVKTAIFHMWTQDPQDSQWDPRNLSSCFDKLLAFFLECLRTEKLDHYFIPKFNLFSQELIDRKSKEFLSKKIEYERNNGFPIFDKL |
| 200 | sp|P39827|CDC10\_CANAL | MSIEEPSTQHIAQPQKYVGFDTITTQIENRLLKRGFQFNIMVVGRSGLGKSTLVNTLFSSKLTTSQGRKSPSEPIEKTTEIKVASHSLLENNVRLNINVIDTPGFGDQINNEKCWEPLVKYVKEQHSQYLRKELTAQRDKFLADTRVHCILYFIPPNGQKLKQLDVQALKKLSEIANVVPIIAKSDSLTLDERSEFKKLLQSEFMKYNFNIYPYDSEDLYEEERQLNEDIKSLIPFAIAGSETEIEINGEMVRGRKTKWGAINIEDVSQCEFVFLRDFLTRTHLQDLIETTALTHYETFRSKQLIALKENASNPNRQSQLQKDQGQTSQQSNQDLKNTSGVPNAPMFQSTTGTAAAR |
| 201 | sp|Q5VT06|CE350\_HUMAN | MRSSKSKEVPLPNPRNSQSKDTVQADITTSWDALSQTKAALRHIENKLEVAPTSTAVCDSVMDTKKSSTSATRKISRKDGRYLDDSWVNAPISKSTKSRKEKSRSPLRATTLESNVKKNNRVEFREPLVSYREIHGAPSNFSSSHLESKHVYCVDVNEEKTESGNWMIGSREERNIRSCDFESSQSSVINDTVVRFLNDRPAIDALQNSECLIRMGASMRTEEEMPNRTKGSENNLKLSVNNMAHDTDPKALRLTDSSPSSTSTSNSQRLDILKRRQHDVKLEKLKERIRKQWEHSEETNGRGQKLGHIDHPVMVVNVDNSVTAKVRKVATAPPAPAYKGFNPSETKIRTPDGKVWQEAEFQNMSRELYRDLALHFADDISIKEKPAEKSKEKKVVKPVRKVQKVAQLSSTECRTGSSHLISTSSWRDGQKLVKKILGPAPRMEPKEQRTASSDRGGRERTAKSGGHIGRAESDPRLDVLHRHLQRNSERSRSKSRSENNIKKLASSLPDNKQEENTALNKDFLPIEIRGILDDLQLDSTAHTAKQDTVELQNQKSSAPVHAPRSHSPVKRKPDKITANEDPPVISKRRHYDTDEVRQYIVRQQEERKRKQNEEKKAQKEATEQKNKRLQELYRKQKEAFTKVKNVPPSEPSATRRLQETYSKLLLEKTLLEEPSHQHVTQETQAKPGYQPSGESDKENKVQERPPSASSSSDMSLSEPPQPLARKDLMESTWMQPERLSPQVHHSQPQPFAGTAGSLLSHLLSLEHVGILHKDFESILPTRKNHNMASRPLTFTPQPYVTSPAAYTDALLKPSASQYKSKLDRIEALKATAASLSSRIESEAKKLAGASINYGSAWNTEYDVQQAPQEDGPWTKAVTPPVKDDNEDVFSARIQKMLGSCVSHATFDDDLPGVGNLSEFKKLPEMIRPQSAISSFRVRSPGPKPEGLLAQLCKRQTDSSSSDMQACSQDKAKISLGSSIDSVSEGPLLSEGSLSEEEGDQDGQPLLKVAEILKEKEFCPGERNSYEPIKEFQKEAEKFLPLFGHIGGTQSKGPWEELAKGSPHSVINIFTKSYQLYGKGFEDKLDRGTSTSRPLNATATPLSGVSYEDDFVSSPGTGTSTEKKSTLEPHSTLSPQEDHSNRKSAYDPSSVDVTSQHSSGAQSAASSRSSTSSKGKKGKKEKTEWLDSFTGNVQNSLLDEEKAERGSHQGKKSGTSSKLSVKDFEQTLDTDSTLEDLSGHSVSVSSDKGRSQKTPTSPLSPSSQKSLQFDVAGTSSERSKSSVMPPTITGFKPNAPLTDLNPAASRTTTENMAPIPGSKRFSPAGLHHRMAAELSYLNAIEESVRQLSDVERVRGISLAQQESVSLAQIIKAQQQRHERDLALLKLKAEQEALESQRQLEETRNKAAQVHAESLQQVVQSQREVTEVLQEATCKIAAQQSETARLTTDAARQICEMAELTRTHISDAVVASGAPLAILYDHQRQHLPDFVKQLRTRTETDRKSPSVSLSQSKEGTLDSKHQKYSASYDSYSESSGYKNHDRRSSSGSSRQESPSVPSCKENEKKLNGEKIESSIDEQVQTAADDSLRSDSVPSLPDEKDSTSIATEYSLKFDESMTEDEIEEQSFRSLLPSESHRRFNMEKRRGHHDDSDEEASPEKTTLSTAKELNMPFSGGQDSFSKFTMEMVRQYMKEEEMRAAHQSSLLRLREKALKEKTKAELAWLEHQKKHLRDKGEDDKMPPLRKKQRGLLLRLQQEKAEIKRLQEANKAARKERQLILKQQEEIEKIRQTTIKLQEKLKSAGESKLDSHSDDDTKDNKATSPGPTDLETRSPSPISISSSETSSIMQKLKKMRSRMDEKFLTKREQKLMQRRQHAEELLEWKRRLDAEEAEIRQMEKQALAAWDKELIKPKTPKKELEDQRTEQKEIASEEESPVPLYSHLNSESSIPEELGSPAVEYVPSESIGQEQPGSPDHSILTEEMICSQELESSTSPSKHSLPKSCTSVSKQESSKGSHRTGGQCHLPIKSHQHCYSWSDESLSMTQSETTSDQSDIEGRIRALKDELRKRKSVVNQLKKEQKKRQKERLKAQEASLIKQLESYDEFIKKTEAELSQDLETSPTAKPQIKTLSSASEKPKIKPLTPLHRSETAKNWKSLTESERSRGSLESIAEHVDASLSGSERSVSERSLSAYAKRVNEWDSRTEDFQTPSPVLRSSRKIREESGDSLENVPALHLLKELNATSRILDMSDGKVGESSKKSEIKEIEYTKLKKSKIEDAFSKEGKSDVLLKLVLEQGDSSEILSKKDLPLDSENVQKDLVGLAIENLHKSEEMLKERQSDQDMNHSPNIQSGKDIHEQKNTKEKDLSWSEHLFAPKEIPYSEDFEVSSFKKEISAELYKDDFEVSSLLSLRKDSQSCRDKPQPMRSSTSGATSFGSNEEISECLSEKSLSIHSNVHSDRLLELKSPTELMKSKERSDVEHEQQVTESPSLASVPTADELFDFHIGDRVLIGNVQPGILRFKGETSFAKGFWAGVELDKPEGNNNGTYDGIAYFECKEKHGIFAPPQKISHIPENFDDYVDINEDEDCYSDERYQCYNQEQNDTEGPKDREKDVSEYFYEKSLPSVNDIEASVNRSRSLKIETDNVQDISGVLEAHVHQQSSVDSQISSKENKDLISDATEKVSIAAEDDTLDNTFSEELEKQQQFTEEEDNLYAEASEKLCTPLLDLLTREKNQLEAQLKSSLNEEKKSKQQLEKISLLTDSLLKVFVKDTVNQLQQIKKTRDEKIQLSNQELLGDDQKKVTPQDLSQNVEEQSPSISGCFLSSELEDEKEEISSPDMCPRPESPVFGASGQEELAKRLAELELSREFLSALGDDQDWFDEDFGLSSSHKIQKNKAEETIVPLMAEPKRVTQQPCETLLAVPHTAEEVEILVHNAAEELWKWKELGHDLHSISIPTKLLGCASKGLDIESTSKRVYKQAVFDLTKEIFEEIFAEDPNLNQPVWMKPCRINSSYFRRVKNPNNLDEIKSFIASEVLKLFSLKKEPNHKTDWQKMMKFGRKKRDRVDHILVQELHEEEAQWVNYDEDELCVKMQLADGIFETLIKDTIDVLNQISEKQGRMLLV |
| 202 | sp|P24100|CDKA1\_ARATH | MDQYEKVEKIGEGTYGVVYKARDKVTNETIALKKIRLEQEDEGVPSTAIREISLLKEMQHSNIVKLQDVVHSEKRLYLVFEYLDLDLKKHMDSTPDFSKDLHMIKTYLYQILRGIAYCHSHRVLHRDLKPQNLLIDRRTNSLKLADFGLARAFGIPVRTFTHEVVTLWYRAPEILLGSHHYSTPVDIWSVGCIFAEMISQKPLFPGDSEIDQLFKIFRIMGTPYEDTWRGVTSLPDYKSAFPKWKPTDLETFVPNLDPDGVDLLSKMLLMDPTKRINARAALEHEYFKDLGGMP |
| 203 | sp|Q38872|CDPK6\_ARATH | MGNSCRGSFKDKIYEGNHSRPEENSKSTTTTVSSVHSPTTDQDFSKQNTNPALVIPVKEPIMRRNVDNQSYYVLGHKTPNIRDLYTLSRKLGQGQFGTTYLCTDIATGVDYACKSISKRKLISKEDVEDVRREIQIMHHLAGHKNIVTIKGAYEDPLYVHIVMELCAGGELFDRIIHRGHYSERKAAELTKIIVGVVEACHSLGVMHRDLKPENFLLVNKDDDFSLKAIDFGLSVFFKPGQIFKDVVGSPYYVAPEVLLKHYGPEADVWTAGVILYILLSGVPPFWAETQQGIFDAVLKGYIDFDTDPWPVISDSAKDLIRKMLCSSPSERLTAHEVLRHPWICENGVAPDRALDPAVLSRLKQFSAMNKLKKMALKVIAESLSEEEIAGLRAMFEAMDTDNSGAITFDELKAGLRRYGSTLKDTEIRDLMEAADVDNSGTIDYSEFIAATIHLNKLEREEHLVSAFQYFDKDGSGYITIDELQQSCIEHGMTDVFLEDIIKEVDQDNDGRIDYEEFVAMMQKGNAGVGRRTMKNSLNISMRDV |
| 204 | sp|P04551|CDK1\_SCHPO | MENYQKVEKIGEGTYGVVYKARHKLSGRIVAMKKIRLEDESEGVPSTAIREISLLKEVNDENNRSNCVRLLDILHAESKLYLVFEFLDMDLKKYMDRISETGATSLDPRLVQKFTYQLVNGVNFCHSRRIIHRDLKPQNLLIDKEGNLKLADFGLARSFGVPLRNYTHEIVTLWYRAPEVLLGSRHYSTGVDIWSVGCIFAEMIRRSPLFPGDSEIDEIFKIFQVLGTPNEEVWPGVTLLQDYKSTFPRWKRMDLHKVVPNGEEDAIELLSAMLVYDPAHRISAKRALQQNYLRDFH |
| 205 | sp|P53568|CEBPG\_MOUSE | MSKLSQPATTPGVNGISVIHTQAHASGLQQVPQLVPAGPGGGGKAVPPSKQSKKSSPMDRNSDEYRQRRERNNMAVKKSRLKSKQKAQDTLQRVNQLKEENERLEAKIKLLTKELSVLKDLFLEHAHSLADNVQPISTETTATNSDNPGQ |
| 206 | sp|P13863|CDK1\_CHICK | MEDYTKIEKIGEGTYGVVYKGRHKTTGQVVAMKKIRLESEEEGVPSTAIREISLLKELHHPNIVCLQDVLMQDARLYLIFEFLSMDLKKYLDTIPSGQYLDRSRVKSYLYQILQGIVFCHSRRVLHRDLKPQNLLIDDKGVIKLADFGLARAFGIPVRVYTHEVVTLWYRSPEVLLGSALYSTPVDIWSIGTIFAELATKKPLFHGDSEIDQLFRIFRALGTPNNDVWPDVESLQDYKNTFPKWKPGSLGTHVQNLDEDGLDLLSKMLIYDPAKRISGKMALNHPYFDDLDKSTLPANLIKKF |
| 207 | sp|Q9LMT0|CDKD3\_ARATH | MPEQPKKVADRYLKQEVLGQGTYGVVFKATDTKTEQTVAIKKIRLGKQREGVNITALREIKMLKELKHPHIILLIDAFPHKENLHLVFEFMETDLEAVIRDSNIFLSPADIKSYLLMTFKGLAYCHDKWVLHRDMKPNNLLIGVDGQLKLADFGLARIFGSPNRKFTHQVFARWYRAPELLFGAKQYGAAVDVWAVACIFAELLLRRPFLQGNSDIDQLSKIFAAFGTPKADQWPDLTKLPDYVEYQFVPAPSLRSLFPAVSDDALDLLSKMFTYDPKARISIKQALEHRYFTSAPAPTDPAKLPKPVPKQDGKSSYGKHEAITVQSPPRKLRRVMPERGRVDSLKSHVDKDQQAPMSLDFTILAERPPNRPTITSADRSHLKRKLDLEFQ |
| 208 | sp|Q63686|CDK16\_RAT | MDRMKKIKRQLSMTLRGGRGIDKTNGVPEQIGLDESGGGGGMTLGEAPTRVAPGELRSIRGPLSSAPEIVHEDMKMGSDGESDQASATSSDEVQSPVRVRMRNHPPRKISTEDINKCLSLPADIRLPEGYLEKLTLNSPIGDKPLSRRLRPVSLSEIGFGKLETYIKLDKLGEGTYATVYKGKSKLTDNLVALKEIRLEHEEGAPCTAIREVSLLKDLKHANIVTLHDIIHTEKSLTLVFEYLDKDLKQYLDDCGNVINMHNVKLFLFQLLRGLAYCHRQKVLHRDLKPQNLLINERGELKLADFGLAYAKSIPTKTYSNEVVTLWYRPPDILLGSTDYSGQIDMWGVGCIFYEMATGRPLFPGSTVEEQLHFIFRILGTPTEDTWPGILSNEEFRTYNYPKYRAEALLRHAPRLECDGADLLTKLLQFEGRNRISAEDAMKHPFFLSLGERIHKLPDTTSIFALKEVQLQKEANIRSTSMPDSGRPAFRVVDTEF |
| 209 | sp|Q96WV9|CDK9\_SCHPO | MKRSSSVSVEDEKSARRKLDVVPKLHFVGCSHLTDYHLMEKLGEGTFGEVYKSQRRKDGKVYALKRILMHTEKEGFPITAIREIKILKSIKHENIIPLSDMTVVRADKKHRRRGSIYMVTPYMDHDLSGLLENPSVKFTEPQIKCYMKQLFAGTKYLHDQLILHRDLKAANLLIDNHGILKIADFGLARVITEESYANKNPGLPPPNRREYTGCVVTRWYRSPELLLGERRYTTAIDMWSVGCIMAEMYKGRPILQGSSDLDQLDKIFRLCGSPTQATMPNWEKLPGCEGVRSFPSHPRTLETAFFTFGKEMTSLCGAILTLNPDERLSASMALEHEYFTTPPYPANPSELQSYSASHEYDKRRKREQRDANSHAFEQTANGKRQFRFMTRGPSDPWYGIRRPNYNSQPQYQRGSYNREGGNMDRSRNVNYQPKRQQNFKPLTSDLPQKNSEFSETNAMNQTSNHSHADGQRYYRPEQDRSQRLRNPSDYGRQGRQSSQSQQPAWNVSSRYQNNSKVQTTSRASENADTNKTQHNIKYIDSYVPEYSIARQSANQKTNEQHPSSTSLHQQSTSDLKSPSFHENSNVDDTPK |
| 210 | sp|Q9JIK1|CDHR5\_RAT | MGAPALLWPPLLLPLLTVLFGHLPGTLAQAQVCSANQTVFTMNENTTVSGPLADIFVPEDQYVTLGQLSTPNAFKVEGNKLFLIVTPDYEENSLLEAVLECKRGDTLVTQFRVFVAVLDINDNAPEFPFTIKEYNVSEDTRVNTIVIPETELKATDADKDDILVYTLQEVTPNASKFFSLVGINSPALKLDQTLDYYKSPNMTFRLLARDTREENVIPSHTATATVVLNVLPADLRTPWFLPCSFTDDYFCIQAQYHTVIPTGHKLPSPLILSPGPIYAVDGDQAINQPIVYSIMMGNTDDTFIINKDDGNLTMAKSIPSPMTFTLVVRAEQADMARYSVTQAVVEARDVTGNPLQFSQSLYFGTVVLGSEAGTAVKDKTFPSEILRIQAQYLGFPDLNSAVTYQVTNSSEFIMNKDILLTTVPMETERTIRIEVEANNTVTKDIATTIVEIQVSEREPPSTESPTPPEAGGTTGPSSNTTLETPSTSGTSQGPATTSSGGSAGPFPPAGTTLSPLTSAPTVPGGSPTLGISTSPQTATPGGDATQTPKPGTSQPMVPTPGASTSSQPATPSGSSTQTPKPGTSQPMVPTPGASTSSQPATPSGSSTQTPRPGTSQPMVPTPGASTSSQPATPSGSTQTPKPGTSQPTTTGPISGVGELGDGQRFSTVDMAVLGGVLGALLLLALIFLIILIHKHYRHRFTCCSGKAKEPQPSGYDNLTFLPDNKAKWSPTSNRKPEPGPEPVQPPLRPPSPMSSSPTPPSSMPPSPQPKASGSPKTVQAGDSPSAVRSILTKERRPEGEGGYKAVWFGKDIGAEADVVVLNEPTADVDSASASGSEGSDDDDDPDQKKSLRLGAVADNTYV |
| 211 | sp|Q99467|CD180\_HUMAN | MAFDVSCFFWVVLFSAGCKVITSWDQMCIEKEANKTYNCENLGLSEIPDTLPNTTEFLEFSFNFLPTIHNRTFSRLMNLTFLDLTRCQINWIHEDTFQSHHQLSTLVLTGNPLIFMAETSLNGPKSLKHLFLIQTGISNLEFIPVHNLENLESLYLGSNHISSIKFPKDFPARNLKVLDFQNNAIHYISREDMRSLEQAINLSLNFNGNNVKGIELGAFDSTIFQSLNFGGTPNLSVIFNGLQNSTTQSLWLGTFEDIDDEDISSAMLKGLCEMSVESLNLQEHRFSDISSTTFQCFTQLQELDLTATHLKGLPSGMKGLNLLKKLVLSVNHFDQLCQISAANFPSLTHLYIRGNVKKLHLGVGCLEKLGNLQTLDLSHNDIEASDCCSLQLKNLSHLQTLNLSHNEPLGLQSQAFKECPQLELLDLAFTRLHINAPQSPFQNLHFLQVLNLTYCFLDTSNQHLLAGLPVLRHLNLKGNHFQDGTITKTNLLQTVGSLEVLILSSCGLLSIDQQAFHSLGKMSHVDLSHNSLTCDSIDSLSHLKGIYLNLAANSINIISPRLLPILSQQSTINLSHNPLDCTCSNIHFLTWYKENLHKLEGSEETTCANPPSLRGVKLSDVKLSCGITAIGIFFLIVFLLLLAILLFFAVKYLLRWKYQHI |
| 212 | sp|Q9Y5K6|CD2AP\_HUMAN | MVDYIVEYDYDAVHDDELTIRVGEIIRNVKKLQEEGWLEGELNGRRGMFPDNFVKEIKRETEFKDDSLPIKRERHGNVASLVQRISTYGLPAGGIQPHPQTKNIKKKTKKRQCKVLFEYIPQNEDELELKVGDIIDINEEVEEGWWSGTLNNKLGLFPSNFVKELEVTDDGETHEAQDDSETVLAGPTSPIPSLGNVSETASGSVTQPKKIRGIGFGDIFKEGSVKLRTRTSSSETEEKKPEKPLILQSLGPKTQSVEITKTDTEGKIKAKEYCRTLFAYEGTNEDELTFKEGEIIHLISKETGEAGWWRGELNGKEGVFPDNFAVQINELDKDFPKPKKPPPPAKAPAPKPELIAAEKKYFSLKPEEKDEKSTLEQKPSKPAAPQVPPKKPTPPTKASNLLRSSGTVYPKRPEKPVPPPPPIAKINGEVSSISSKFETEPVSKLKLDSEQLPLRPKSVDFDSLTVRTSKETDVVNFDDIASSENLLHLTANRPKMPGRRLPGRFNGGHSPTHSPEKILKLPKEEDSANLKPSELKKDTCYSPKPSVYLSTPSSASKANTTAFLTPLEIKAKVETDDVKKNSLDELRAQIIELLCIVEALKKDHGKELEKLRKDLEEEKTMRSNLEMEIEKLKKAVLSS |
| 213 | sp|Q03147|CDK7\_MOUSE | MAVDVKSRAKRYEKLDFLGEGQFATVYKARDKNTNQIVAIKKIKLGHRSEAKDGINRTALREIKLLQELSHPNIIGLLDAFGHKSNISLVFDFMETDLEVIIKDNSLVLTPSHIKAYMLMTLQGLEYLHQHWILHRDLKPNNLLLDENGVLKLADFGLAKSFGSPNRAYTHQVVTRWYRAPELLFGARMYGVGVDMWAVGCILAELLLRVPFLPGDSDLDQLTRIFETLGTPTEEQWPDMCSLPDYVTFKSFPGVPLQHIFIAAGDDLLELIQGLFLFNPCTRTTASQALKTKYFSNRPGPTPGCQLPRPNCPVEALKEPANPTVATKRKRAEALEQGILPKKLIF |
| 214 | sp|P51959|CCNG1\_HUMAN | MIEVLTTTDSQKLLHQLNALLEQESRCQPKVCGLRLIESAHDNGLRMTARLRDFEVKDLLSLTQFFGFDTETFSLAVNLLDRFLSKMKVQPKHLGCVGLSCFYLAVKSIEEERNVPLATDLIRISQYRFTVSDLMRMEKIVLEKVCWKVKATTAFQFLQLYYSLLQENLPLERRNSINFERLEAQLKACHCRIIFSKAKPSVLALSIIALEIQAQKCVELTEGIECLQKHSKINGRDLTFWQELVSKCLTEYSSNKCSKPNVQKLKWIVSGRTARQLKHSYYRITHLPTIPEMVP |
| 215 | sp|Q8NHQ1|CEP70\_HUMAN | MFPVAPKPQDSSQPSDRLMTEKQQEEAEWESINVLLMMHGLKPLSLVKRTDLKDLIIFDKQSSQRMRQNLKLLVEETSCQQNMIQELIETNQQLRNELQLEQSRAANQEQRANDLEQIMESVKSKIGELEDESLSRACHQQNKIKDLQKEQKTLQVKCQHYKKKRTEQEETIASLQMEVCRLKKEEEDRIVTQNRVFAYLCKRVPHTVLDRQLLCLIDYYESKIRKIHTQRQYKEDESQSEEENDYRNLDASPTYKGLLMSLQNQLKESKSKIDALSSEKLNLQKDLETRPTQHELRLYKQQVKKLEKALKKNVKLQELINHKKAEDTEKKDEPSKYNQQQALIDQRYFQVLCSINSIIHNPRAPVIIYKQTKGGVQNFNKDLVQDCGFEHLVPVIEMWADQLTSLKDLYKSLKTLSAELVPWLNLKKQDENEGIKVEDLLFIVDTMLEEVENKEKDSNMPHFQTLQAIVSHFQKLFDVPSLNGVYPRMNEVYTRLGEMNNAVRNLQELLELDSSSSLCVLVSTVGKLCRLINEDVNEQVMQVLGPEDLQSIIYKLEEHEEFFPAFQAFTNDLLEILEIDDLDAIVPAVKKLKVLSY |
| 216 | sp|Q8TCT0|CERK1\_HUMAN | MGATGAAEPLQSVLWVKQQRCAVSLEPARALLRWWRSPGPGAGAPGADACSVPVSEIIAVEETDVHGKHQGSGKWQKMEKPYAFTVHCVKRARRHRWKWAQVTFWCPEEQLCHLWLQTLREMLEKLTSRPKHLLVFINPFGGKGQGKRIYERKVAPLFTLASITTDIIVTEHANQAKETLYEINIDKYDGIVCVGGDGMFSEVLHGLIGRTQRSAGVDQNHPRAVLVPSSLRIGIIPAGSTDCVCYSTVGTSDAETSALHIVVGDSLAMDVSSVHHNSTLLRYSVSLLGYGFYGDIIKDSEKKRWLGLARYDFSGLKTFLSHHCYEGTVSFLPAQHTVGSPRDRKPCRAGCFVCRQSKQQLEEEQKKALYGLEAAEDVEEWQVVCGKFLAINATNMSCACRRSPRGLSPAAHLGDGSSDLILIRKCSRFNFLRFLIRHTNQQDQFDFTFVEVYRVKKFQFTSKHMEDEDSDLKEGGKKRFGHICSSHPSCCCTVSNSSWNCDGEVLHSPAIEVRVHCQLVRLFARGIEENPKPDSHS |
| 217 | sp|Q66PF4|CGT\_FRAAN | MGSESLVHVFLVSFIGQGHVNPLLRLGKRLAAKGLLVTFCTAECVGKEMRKSNGITDEPKPVGDGFIRFEFFKDRWAEDEPMRQDLDLYLPQLELVGKEVIPEMIKKNAEQGRPVSCLINNPFIPWVCDVAESLGLPSAMLWVQSAACLAAYYHYYHGLVPFPSESDMFCDVQIPSMPLLKYDEVPSFLYPTSPYPFLRRAILGQYGNLEKPFCILMDTFQELESEIIEYMARLCPIKAVGPLFKNPKAQNAVRGDFMEADDSIIGWLDTKPKSSVVYISFGSVVYLKQEQVDEIAHGLLSSGVSFIWVMKPPHPDSGFELLVLPEGFLEKAGDRGKVVQWSPQEKILEHPSTACFVTHCGWNSTMESLTSGMPVVAFPQWGDQVTDAKYLVDEFKVGVRMCRGEAEDRVIPRDEVEKCLLEATSGSKAAEMKQNALKWKAAAEAAFSEGGSSDRNLQAFVDEVRRISASLNSKSSAVGYVKSKINGVVEYVDSKLNGKAAPVEEANTRTNGIAKVEQPKAANGKVEIAELTPINGKVEIAELKPINGKVELVES |
| 218 | sp|Q58323|COABC\_METJA | MISEIMHPTKLLKGTKSKLLENKKILVAVTSSIAAIETPKLMRELIRHGAEVYCIITEETKKIIGKEALKFGCGNEVYEEITGDIEHILLYNECDCLLIYPATANIISKINLGIADNIVNTTALMFFGNKPIFIVPAMHENMFNAIKRHIDKLKEKDKIYIISPKFEEGKAKVANIEDVVKAVIEKIGNNLKKEGNRVLILNGGTVEFIDKVRVISNLSSGKMGVALAEAFCKEGFYVEVITAMGLEPPYYIKNHKVLTAKEMLNKAIELAKDFDIIISSAAISDFTVESFEGKLSSEEELILKLKRNPKVLEELRRIYKDKVIIGFKAEYNLDEKELINRAKERLNKYNLNMIIANDLSKHYFGDDYIEVYIITKYEVEKISGSKKEISERIVEKVKKLVKS |
| 219 | sp|Q9Y7R3|CND2\_SCHPO | MKRASLGGHAPVSLPSLNDDALEKKRAKENSRKQRELRRSSALHSITPRRESLNNSSPFNSSHQVPVLSNFEEWIKLATDNKINSTNTWNFALIDYFHDMSLLRDGEDINFQKASCTLDGCVKIYTSRIDSVATETGKLLSGLANDSKVLQQTEEGEDAENDDEDLQKKKERKRAQRSVKTLVKDFESIRAKKFELECSFDPLFKKMCADFDEDGAKGLLMNHLCVDQHGRIVFDSSDTVIKDLENKDVEAESQEAVVAAPIESHDTEMTNVHDNISRETLNGIYKCYFTDIDQLTICPSLQGFEFDSKGNLDVSLLKSLSDEVNMITTTSLVDNTMEKTDADAASLSSDSDGEEGHIVHALEEMAYDEENPYVDVVPKAMDESENPDFGVDTEVNMADGSTMNENYSIISTAAANGVYEYFDKSMKKNWAGPEHWRIQALRKNINNASTVFNSSNTAESSDNVSRSLSSTERKKRRELDNAIDFLQEVDVEALFTPATSSLKLPKSHWKRHNRCLLPDDYQYDSKRLLQLFLKPKMSVLPNADGEGQLQLNKALDDENDLDGIQPHGFDSDGSDNVDEGIPPYGFGDSDSPKQTPLLTPPSSSGFGDNLLLTARLAKPDMLNYAKRAKKVDVRVLKEKLWKCLDLENTIKENSINSHIEGSEMESEETNMPVKSFFSTVNQLEETYEKKELKDISTSFAFICVLHLANEHNLELTSNEDFSDVFIRPGPNLTTLEALENDV |
| 220 | sp|P58806|CKR\_CONRA | MQLYTYLYLLVSLVTFYLILGTGTLGHGGALTERRSTDATALKPEPVLLQKSSARSTDDNGNDRLTQMKRILKKRGNKARGEEEVAKMAAELARENIAKGCKVNCYP |
| 221 | sp|P01523|CM3A\_CONGE | MMSKLGVLLTICLLLFPLTALPMDGDEPANRPVERMQDNISSEQYPLFEKRRDCCTPPKKCKDRQCKPQRCCAGR |
| 222 | sp|Q5JTJ3|COA6\_HUMAN | MGPGGPLLSPSRGFLLCKTGWHSNRLLGDCGPHTPVSTALSFIAVGMAAPSMKERQVCWGARDEYWKCLDENLEDASQCKKLRSSFESSCPQQWIKYFDKRRDYLKFKEKFEAGQFEPSETTAKS |
| 223 | sp|Q8K3P5|CNOT6\_MOUSE | MPKEKYEPPDPRRMYTIMSSEEAANGKKSHWAELEISGKVRSLSSSLWSLTHLTALHLSDNSLSCIPSDIAKLHNLVYLDLSHNQIQSLPAELGNMVSLRELHLNYNQLRVLPFELGKLFQLQTLSLKGNPLTQDILNLCLEPDGTRRLLNYLLDNLSGTAKRISTEQPPPRSWIMLQEPDRTRPTALFSVMCYNVLCDKYATRQLYGYCPSWALNWDYRKKAIIQEILSCNADIISLQEVETEQYYSFFLVELKERGYNGFFSPKSRARTMSEQERKHVDGCAIFFKTEKFTLVQKHTVEFNQLAMANSEGSEAMLNRVMTKDNIGVAVLLELRKELIEMSSGKPHLGTEKQLILVANAHMHWDPEYSDVKLVQTMMFLSEVKNIIDKASRSLKSSVLGECGTIPLVLCADLNSLPDSGVVEYLSTGGVETNHKDFKELRYNESLTNFSCNGKNGMTNGRITHGFKLKSAYENGLMPYTNYTFDFKGIIDYIFYSKPQLNTLAILGPLDHHWLVENNISGCPHPLIPSDHFSLFAQLELLLPFLPQVNGIHLPGRR |
| 224 | sp|Q9SYQ8|CLV1\_ARATH | MAMRLLKTHLLFLHLYLFFSPCFAYTDMEVLLNLKSSMIGPKGHGLHDWIHSSSPDAHCSFSGVSCDDDARVISLNVSFTPLFGTISPEIGMLTHLVNLTLAANNFTGELPLEMKSLTSLKVLNISNNGNLTGTFPGEILKAMVDLEVLDTYNNNFNGKLPPEMSELKKLKYLSFGGNFFSGEIPESYGDIQSLEYLGLNGAGLSGKSPAFLSRLKNLREMYIGYYNSYTGGVPPEFGGLTKLEILDMASCTLTGEIPTSLSNLKHLHTLFLHINNLTGHIPPELSGLVSLKSLDLSINQLTGEIPQSFINLGNITLINLFRNNLYGQIPEAIGELPKLEVFEVWENNFTLQLPANLGRNGNLIKLDVSDNHLTGLIPKDLCRGEKLEMLILSNNFFFGPIPEELGKCKSLTKIRIVKNLLNGTVPAGLFNLPLVTIIELTDNFFSGELPVTMSGDVLDQIYLSNNWFSGEIPPAIGNFPNLQTLFLDRNRFRGNIPREIFELKHLSRINTSANNITGGIPDSISRCSTLISVDLSRNRINGEIPKGINNVKNLGTLNISGNQLTGSIPTGIGNMTSLTTLDLSFNDLSGRVPLGGQFLVFNETSFAGNTYLCLPHRVSCPTRPGQTSDHNHTALFSPSRIVITVIAAITGLILISVAIRQMNKKKNQKSLAWKLTAFQKLDFKSEDVLECLKEENIIGKGGAGIVYRGSMPNNVDVAIKRLVGRGTGRSDHGFTAEIQTLGRIRHRHIVRLLGYVANKDTNLLLYEYMPNGSLGELLHGSKGGHLQWETRHRVAVEAAKGLCYLHHDCSPLILHRDVKSNNILLDSDFEAHVADFGLAKFLVDGAASECMSSIAGSYGYIAPEYAYTLKVDEKSDVYSFGVVLLELIAGKKPVGEFGEGVDIVRWVRNTEEEITQPSDAAIVVAIVDPRLTGYPLTSVIHVFKIAMMCVEEEAAARPTMREVVHMLTNPPKSVANLIAF |
| 225 | sp|W6RTA4|CLA1\_CAEEL | MSSWFSYFGFSKGPPLEEVREESEEDAQVPEQVVSKNTEEEIADAINRLSPEQQNLIQDVLRRAESSRKEAKVVVDAEMMRSRFRQRDSIEDSQEIDHRYSLIQMDSIPENMVTNEMEERLATTQNEDIIPESSQRSPITPRKIHEKRASITEVTTENLRHRFQKMKSHLTTWFNSLDYDGEYIFDFTSKPEKSEKLGELTMQYIDALSQAIMISSHIEYSHHVLSSNPKFQQMCTQFCESIFSVAFDELTYQLLDDKVQETLNEYCGQIAEEALQAAFFTMISKTLSKSKECEQVLNEISSMHKSRSFESAKQLDQLLSRIEDDRESSRKSSPYLYEVLGKSSDSPSTSASVEYRSQNSYESEISFETPDIHVEELFDTHLNEKDETKLILKSVEDKLETTEIEGNVPKIDENLIENIQYDSGDQEHYIWISGPLGRINEEHEDDFEARSESSSGSMITHSTEPKMQLNVEEYIQTMIARVSTENEITNTSNQTANIVIDPGSIDSEEINKLAAKLVEESILKASQEAASDNHEKERSSATSKADYERSFDQDVTYERSSPLLEPSEEPVMESKEPELTQEEIDHIARIQSLAEQSSFEQASTIPDRPPLPARLPTVDEPIVISEQHEEDRSSATSGADYERSFDQEVTYERSSPLLEPCEEPVMESKEPELTQEEIDHIARIQSLAEKSSFEQASTIPDRPPLPARLPTVDEPIVISEQHEEDRSSATSGADYERSFDQDVTYEKSSPLLEPSEDPVMESKEPELTQEEIDHIARIQSLAEKSSFEQTSTIPDRPPLPARLPTVDEPIVSSEQHEEDRSSATSGADYERSFDQDVTYERSSPLLEPCEEPVMESKEPELTQEEIDNIAWIQSIAEQSSFEQASTIPDRPPLPVRLPTVDEPIVSSEQQEEDRSSATSGADYERSFDQDVTYERSSPLLEPSEDPVMESKEPELTQEEIDHIAWIQSIAEQSSFEQASTVPDRPPLPVRLPTVDEPIVSSEQHEDDRSSATSGADYERSFDQDVTYERSSPLLEPCEEPVMESKEPELTQEEIDHIAWIQSSAEQSSFEQASTVPDRPPLPVRLPTVDEPIVSSEQHEEDRSSATSGADYERSFDQDATYERSSPLLEPCEEPVMESRVPELTQEEIDHIARIQSLAEKSSFEQTSTIPDRPPLPARLPTVDEPIVSSEQHEEDRSSATSGADYERSSDQEVTYERSSPLLEPCEEPVMESKEPELTQEEIDHIAWIQSIAEQSSFEQASTVPDRPPLPVRLPTVDEPIVSSEQHEDDRSSATSGADYERSFDQDVTYERSSPLLEPCEEPVMESKEPELTQEEIDHIAWIQSIAEQSSFEQASTVPDRPPLPVRLPTVDEPIVSSEQHEDDRSSATSGDDYERPFDQDFTYERSSPLLEPCEEPVMESRVPELTQEEIDHIAWIQSIAEQSSFEQASTIPDRPPLPVRLPTVDEPIVSSEQHEDDRSSATSGADYERSSDQEVTYERSSPLLEPCEEPVMESKKPELTQEEIDHIAWIQSIAEQSSFEQASTIPDRPPLPVRLPTVDEPIVSSEQHEDDRSSATSGADYERSFDQDVTYERSSPLLEPSEDPVMESKEPELTQEEIDHIAWIQSIAEQSSFEQASTIPDRPPLPVQLPTVDEPIVSSEQQEEDRSSATSGADYERSFDQDVTYERSSPLLEPSEDPVMESKEPELTQEEIDHIAWIQSIAEQSSFEQASKIPDRPPLPVRLPTVDEPIVSSEQHEEDRSSATSGADYERSFDQDVTYERSSPLLEPSEEPVMESRVPELTQEEIDHIAWIQSIAEQSSFEQASTIPDRPPLPVRLPTVDEPIVSSEQHEEDRSSATSGADYERSSDQEVTYERSSPLLEPCEEPVMESKEPELTQEEIDHIAWIQSIAEQSSFEQASTIPDRPPLPVRLPTVDEPIVISEQHEEDRSSATSGADYERSFDQDVTYERSSPLLIPSEDPVMESKESELTQEEIDHIARIQSLAEQSLFEQASTIPDRPPLPVRLPTVDEPIVISEQHEGDRSSATSGADYERSFDQDVMYERSSPLLIPSEDPVMESKESELTQEEIDHIARIQSLAEQSSFEQASTIPDRPPLPVRLPTVDEPIVISEQHEGDRSSATSGADYERSFDQDVTYERSSPLLEPCDEPVMESKEPELTQEEIDHIARIQNLAEQSSFEQASTITDRPPLPVRLPTVDEPIVISEQHEGDRSSATPGADYERSYDQDVTYERSSPLLEPSEVPVMVSKAAVLTQEEIDHIAIMQSLAETEDRKALLEPCEEPVMESKKPELTQEEIDHIAWIQSIAEQSSFEQASTIPDRPPLPVRLPTVDEPIVSSEQHEDDRSSATSGADYERSIDQEVTYERSSPLLEPCEEPVMESKKPELTQEEIDHIAWIQSIAEQSSFEQASTIPDRPPLPVRLPTVDEPIVSSEQHEEDRSSATSGADYERSSDQEVTYDRSSPLLEPCEEPVMESKPELTQEEIDHIAWIQSIAEQSSFEQASTIPDRPPLPVRLPTVDEPIVSSEQHEEDRSSATSGADYERSFDQDVTYERSSPLLEPSEDPVMESKEPELTQEEIDHIAWIQSIAEQSSFEQASTIPDRPPLPVRLPTVDEPIVSSEQHEDDRSSATSGTDYERSFDQDVTYERSSPLLEPCEDPVMESKEPELTQEEIDHIAWIQSIAEQSSFEQASTIPDRPPLPVRLPTVDEPIVSSEQHEDDRSSATSGADYERSFDQDVTYERSSPLLEPSEDPVMESKEPELTQEEIDHIARIQSLAEQSSFEQASTVPDRPPLPVRLPTVDEPIVSSEQHEDDRSSATSGADYERPFDQDFTYERSSPLLEPCEEPVMESKKPELTQEEIDHIAWIQSIAEQSSFEQASTIPDRPPLPVRLPTVDEPIVSSEQHEEDRSSATSGADYERSFDQDVTYERSSPLLEPYEEPVMESKVPELTQEEIDHIARIQSLAEQSSFEQAPTIPDRPPLPVRLPTVDEPIVISEQHEGDRSSATSGADYERSFDQDVTYERSSPLLIPSEDPGNPSEPAPTPEEIHHTACDPSIAAPSSSFEQASTVPDRPPLPVRLPTVDEPIVSSEQHEDDRSSATSGADYERSFDQDVTYERSSPLLEPCEEPVMESKEPELTQEEIDHIAWIQSIAEQSSFEQASTVPDRPPLPVRLPTVDEPIVSSEQHEDDRSSATSGADYERSFDQDVTYERSSPLLEPCEEPVMESKEPELTQEEIDHIAWIQSIAEQSSFEQASTIPDRPPLPVRLPTVDEPIVSSEQHEDDRSSATSGTDYERSFDQDVTYERSSPLLEPSEEPVMLSKEAELTQEEIDHIAIIQSLAEKSSFEQFGIQTGHPFLPVRILTERQNDHDRISEEDNTSSCSSENNIILKYSDISYDRNTPLLNSDDEFLEKDFGASAESSEPSQGNWAKFEEISSSSNAEWPTNISTYKFPSFSEKNVNEDLLNKSSWDCRDNVIVDDVIEEEDENDLLGDVTYSREVNKDYWKDSSTIPLVRIECVSDEQINVNEETPGIDKEIKSAEISKDDNSVVSCSSENQIDHTNDEHFDFGQEDSEHEELKHCSSQYSFDSSLPPFHRYVACPSITPSEGDDGGSSETGHPTTDECYNEDVNRQIEQYSALASLSKSVLPVVEIKIDEATSESSVLQLDDDDKSISEQEDFIDNMDLTLKRNEDKTNITNLGASEIQQQEENEISAQTAEVESSDSWNSKTVKMLSDDSAFAEETQHVDLVSTSATKHEDYAEEQTLSQEEIDHIARITAMATEDNTDLQTLPTPQVRQNEPELSQKEIDHITRIAAMANKDFGMYPSIVSEHPAPVESELTQEELDHIARITEIASMDISTLPPPTGKPSETSLTQEELDHIARIAEMASAEYDVPVKIFEPPELTQEELDHIAKITAMAAQDVQLPATQRSITHKVSLTPPPPPPSKHFEQDLTQEELDHIARIAEMADMDYNTPFTAEPVQDEEEEPITESGSDATSGADIFDEQEDASSDREKRSGTSFPDNAETSLEDDTAHEKSYPQLEPSEEPVMKSKEPELTQEEIDHFARIQSLAEQSSFEQASTIPDRQPLPVRLPTVDEPIVISEQHEGDRSSATSGADYERSFDQDVTYERSSPLLEPCDEPVMESKEPELTQEEIDHIARIQSLAEQSSFEQTSTIPDRQPLPVRHPTVDEPIVISGQHEEDRSSATSGADYQQSFDQDDPSKRSSPLLEPNEEQMMESTQPELTQDHSSTTISDILIKEVDKFIPEAKFGRSFEEHDGRLIHSGNLDIDVPLESDCRKTFGQDKSESTMPTELTEADLERVARIHQHFDQSSFDEVVVPTSHPDDGRSSSVRSSEYLDTVTPLSSCAATPILTNPKLVQEELDHIAFIQKMAEQFTFDEVETPILRQNTTSHSVSYNFVQRSCHEDVSFQKKESPALTSLKEIAESSQLTQEELDHIASIQQMADQPYFEESHFIFKSDVKEEKKEDKLHHELFVEECVAQESITQDDVERKPLELTQEEIDHIAKIQKLADQSSFEQASAIQSLPTAEEPIVEKREDDKSNITSGADYQQSFDQDVTYKRSSPLLEPSEEPVMESKEPELTQEEIDHIARIQSLAEQSSFEQASTIPDRPPLPVRLPTVDEPIVISEQHEGDISSATSGADYERSLDQDVTYERSSPLLEPCDEPVMESKEPELTQEEIDHIARIQSLAEQSSFEQASTIPDRPPLPVRLPTVDEPIVSSEQHEEDRSSATSGADIERSFDIDVSQDRVSPISEHEEGVTQEEMEHIARIAAMAAEDFKHPEGNLEPEFSQPDKDHIAMMKKLEEQSKMENQELPANPIIHTDQVDRQESEGSSSATSGADIPSSFDISSPIPPEPLQDHITTSQKLISRPSIEISNVPSRLPELSLTAVQRGSEDISSATSGAGIERSFDGISPLPNFSEEPIMINDEMNYVLMVTHMAQKIDVQQPIQETSTLRKAVLCESPEDFSEATSGADTESISETTANKKDSNDSNGLTEEEMKHIAEVLRKAEASSAASGMFERDSNLPPLRRTSITYTSHFSPSVIRDLRSSTSFTSVPAASDEEEIVKGKLKREPSTQVVYTDHFLRDLQSINAYLEKGEDGTDVTIEETSHDNESSSLPEEDEHITDVYHFDVGTSLLVQQYILQQSTFQEAAGLHISPIRRTMSAACTAEKHIDDEENIKEREVKHAQSHDQIKKRAGGEPNAYELLEQHSFRHTQPLLCNVDFLWRLNFAANRMTEEIADEAGRELRAHYRNVANPRARYFSDAYDIGTDDEEEEVTETSQAGFSVEPMRHEEQSYGLFSFFTSSKRSVSDRPRSALAMFTNPSPSASPSLLRKESEDRGDILNLLRRSSGADSRASNDSSASRLPDTALVGLSEAEKQHIMSVMSRSNRNTSPMTSRRCSSALQMLPEVDNLSEAEKEHIQTILEKAESKTPFMIKVPMKKQISSRTESTNSRVSSEGIDEEVENEVQRKKTIEEPIVEIPSRAVTPRNNLRVIPPPIAISHPTPPHSAKTDTGSRHSSGSSAHSQFGFSTPSISGFKIFFDKAKTATETLVKEIKDEVIVEVDKDKTETKPEPNVSNELTAEEFEHIRRINEMAGIDEPIQPPPIAQERRKSSVVSGLKNMFGVGKHDESELTTEEKEHIRQMSLMAEKMDEEILDEQSKPKSTFGLKNFFGKATQSVMHATDSVIKNVQNQSKQSLSGLTQEELDNIAQATESAQQESKQELTQDEIDHIARINAMAAEDFEQPAVNMNQGLSQAEKDHIARIEAMAADDSQSKIIVPPPSIIQKDIELSMEEMDHIARIAAMADEDFTHPVKGAVAPIYDENYSRDDGAIDRFPASTATPVFAQPSEIELSEEEREHISRIAAMAEEDFNTPYVSTHPTQQIEIELTEEEKEHIARIEAMASEDLNAPSPFIQQEQRVATMPVPINYHVEEPTLSQEEIDHIARITAMATEDNTDLQTLPTPQVKQNEPELSQEEIDHITRIAAMANEDFGMYPSIVSEHPAPVESELTQEELDHIAKITGMASMDISTLPPPTGKPSETSLTQEELDHIARIAEMASAEYDVPVKIFEPPELTQEELDHIAKITAMAAQDVQLPATQRSITHKVSLTPPPPPPSKHFEQDLTQEELDHIARIAEMADMDYNTPFTAEPVQDEEEEPITESGSDATSGADIFDEQEDASSGASGSFDNNNAQVLTSGFSPDRVTSPAALDTTEEPQGPIMAQKTVSPTPSADSMASRKSSEYDIRSISEIRQESESDIGKWYEEQLSFMRQSIHDEEEDVGHEIRTDVEEFPLEYVEDQLHFLEGIDVESQHHEPTTSSAFFGTGRSIGEGEKRKYGDDAVEQQKLENYEEEEKTKSSSREAFDDGFETQREESLRAQQTPIDSLPGSRMLKRPNFGFLSNIANDAINKAKEAGSQIQAAVPIKPSSSSSNIVNNNVFSSSKSSTSLGTSAPTKSIPSPQIGIPMDGLSEEERRQIMSVMAAADFDDSVNNVKPSTSGSSNIPAGMEDLSEAEREKIMSVMANAEMEMGARFPPPSSQIPTRSPSVMSSSIMSELPPGLDDLSDDERMKIMAVMAEADMQNVRKPIARGPPPMPPSTSMIPPGMEGLSEEERQKIMSVMANAETDSSSSVITSRQPSRSPSVARMQPQLMPPQQAIPIIPPGLEGLSDEERHTIMSVMAEAEFEESRSQVPSRQPSRSPSFVNPQQSFHPIPSFEPIVPPGLEDLSEEERQKIMSVMMNAEVEESRSQLPSRQPSRSPSVAMIQAPAVPIIPSGMEDLPEAERQKIMSVMAEAEIQNFVPSRSPSNYSMQPVPVIPHGLEDLSEAERQKILSVMAEAEIDSAKIPSRSTSSYSMPPPLPQMSQPEITTGLEHSSEADMEFGRDSSRSHQVIPPGLENLSEEERQQIMSVMAHAELESIIPSGHIDQPISLPRGHTGFKPAGIVNEDELFETERKQREESPTRESGYATSTSYERELAMGDEERMDGLLEDIIRIREGARSRRDSRDEVLHRREEDPEVHTPEESSTAVVTDVPSVSPVTENVPEKQTDDFDFTYSDSRFAEIVQMQEEEEAGSLQKQKVDEKPRMWETVFDGDESELPHQDFVFNEPTTKKTSDFDFPKETDEVFEKPSEIQRIRVTKNHDVDMDEIYDNVIATEAPSSVSQRRQPVDSETSVKSRTIQRGPTKPPPMIKITVEEETKSDSDEESCSEDDEEYPDRVVAAPTAPAPTFEEVENERIRQEELGKEVLQQIMAFGEVANDEFDVQWAKTTTSQTPSTSTKPTVTAPKRSDPIPIAPSQRSKEIEEERIRTEALEEEEFYRHGHNPFLESPEEDEVSINMEDVEYAEIARLYESANQTMRRPGPVYTITEDESEDDGTLSNSESRLVAREKRLMDKKTADSLMAKYQKMKKVQAKQTTTASSTSVTATPAYAIINFSDLKTSTRTTDSNSYFETTKNIPALEIKDPKKDIPPEISASIDKTMAEVDALLGQVYTNEKAIPNLLCFDQSNFSNHPPTSSASTSTADDLILLKNNNSSSPSFLLPLQSSVLGSQLDSVRDDNERNENETTSPRGLKRSPGMLLPSPTSTSIFPMPPTAAESVGAAIGATTASMFGGISVADPPPTMDGLTNSYKWLQNIEDDGNLANNDMGRRKLPSIPPNSSAFPPPTSVTTNVISTDTSMPSTSSGPAPTYVDDYNVTLPSDPIVAESLLKGGSLTRRHQHQQQHQAPVYITSSASRPPSAAGSNIFQESRPTSSLSMYQNDVILSRPGSAASNYTTASTINPTILAGASYSSKASSHIRQPVSVRSPRAQTGTTQTTAASGSASNSIRPSIGSSSVTTRVPNTLARVLLKKELKDVLIQRKQRLEATEIEANQRHYKVQKMLITGLLPEKPEDDIPNIVKCDLPADLVRGVHISMQPPSPAVSAFSPRRYHHPTSVASHQSHPSTFKHMSKSIACQADELPPVKPMISLRTQLDMERRPQLMTYVGKRSAETQTELANYESITPTVRYGSIPRSSRERTASRRYREQQQQIYNQMPQNHNDLLEITKKYFEDYDRQLREFGERARRHSRRRFDFHDDDDQDDMRKNQVMHELARRKERMCASCEILSTTDPIRTALNPNVPMSSDYSSHVPHYGSLPRIDYPRGTRSDVRDFTYRQQHLPQQPPTNYSYNYGSLPRNFERGFSDLPPIEIENEQSFGAPPRHRSNLGYESTSMFNLSDPVYLGYDSIPMVQHQQPRVYDQIPSGYAQDTTNLNSLNQGVRGSDMVSQYASYLNSQFQSGLQQSAQLPQPMIPITRYDAPMSDPYVSSRSRLVDQMNQGYNSNQYHHHSTLLAPKSAQMTHIAPTYNQLAQQQGIPMQNTQMDPLMMSSGRIPSSSSQVYSRNEMNYGSRPAQSSLFEYGNRRQYGAAPPPTYDVPNVSSASDWRTTQQQGLIQQMPMQMQQQQHNTFDARWPKEDALSRMYATASRRRAQETALTSSNKISTGSRSYARRPIRPSSYRNPEATNSMPDRHVARRTAENSRYDVKRILLTRSYKHHNIYNDLGVRVVGGKRQMNGELSAYVSQLHSTANNQTLGQIKIGDEVVEWNGILLRGKTFEEVERIVNKSHGEIEMVIRTYKNPSSGVYDTLPLNRNTMRDDLSPDRVPPVPMHRINGINNNSVLHHHTLSDSSCHGHIQVSLGYDGNSRLVAKIIRARGLKSRDQSRSAPNPFVKVYLLPGRKVSHKRRTRFVDSSCAPEWNQVLEYQVAPHTLNTMFLEFTVCDYQRDVDDLPLGNVQIPLADKSAINTGPRWYPLQGSYDQPIPQHYMNGTSLSQIPSIAAASKHSAAVHNHHNHNYSEVPPSILYPKGGVGTRHPDKPVRHATFNYNPVSLDIGYPAIN |
| 226 | sp|Q6DFV1|CNDG2\_MOUSE | MEKREAFIQAVSKELVEEFLQFLQLDKDSSNPFSLSELLDELSRKQKEELWQRLKDLLTETLLESPVDRWQTVEVEGADDMESEHSPKMRKSIKIICAIVTVILASVSIINEHENYGALLECAVILNGILYALPESEQKLQNSIQDLCVKWWERGLPAKEDMGKTAFIMLLRRSLETKSGADVCRLWRIHQALYCFDYDWEESREIKDMLLECFINVNYIKKEEGRRFLSFLFSWNVDFIKMIHETIKNQLAGLQKSLMVHIAEIYFRAWKKASGKMLETIEYDCIQDFMFHGIHLLRRSPVHSKVREVLSYFHQQKVRQGVEEMLYRLYKPILWRGLKARNSEVRSNAALLFVEAFPIRDPNFTATEMDNEIQKQFEELYNLIEDPYPRVRSTGILGVCKISSKYWEMMPPNILVDFLKKVTGELAFDISSADVRCSVFKCLPIILDNKLSHPLLEQLLPTLRYSLHDNSEKVRVAFVDLLLKIKAVRAAKFWKICPMEDILVRLEMDSRPVSRRLVSLIFNSFLPVNQPEEVWCERCVTLIQMNRAAARRFYQYAHEHTASTNIAKLIHVIRHCLNACIQRTLREGSEAHKECEKENASVLDKTLSVNDTASMAGLLEIIVILWKNIHRSLENNKEAKIYTINKFAAVLPEYLKVFKDERCKIPLFMLMSFLPASAVPVFSCGVISVLRNQESVTGRSYCTLLDCLCSWGQVGHVLELIVDWLPTVPPQAKSNLASKRKVEINDTCSVKPELALLYMEYLLTHPKNRECLLSVPQKKLNQLLKALEGSKAELESFLQSPSGNPLNFNKATALHAFGLYCRMSVHLQYKFCSEEKIHLSILDDTGSWLENKVLPLLEDQEEEYLKLRKDVYQQIIQTYLAVCKDVVMVGLGDPKFQMQLLQRSFGIMKTVKGFFYVSLLLGILKEIAGNTIIHKTDSDEKVTVLFDLVQEVFQKMLECIACIFRKQPEESLPLFHSVQTPLHEFITTIQSWHKDTAVHHAVLSTLIAAPVVEISHQLQKVSDIEELTSPQCLHDLPPFSRCLVGVIMKSSDVVRSFVDELKACVTSGDVEGIVCLTAVLHIILVINKGKHISAKVKEVATAVYRKLKTFMEITLEEDSLERFLYESSMRTLGEFLNP |
| 227 | sp|O75175|CNOT3\_HUMAN | MADKRKLQGEIDRCLKKVSEGVEQFEDIWQKLHNAANANQKEKYEADLKKEIKKLQRLRDQIKTWVASNEIKDKRQLIDNRKLIETQMERFKVVERETKTKAYSKEGLGLAQKVDPAQKEKEEVGQWLTNTIDTLNMQVDQFESEVESLSVQTRKKKGDKDKQDRIEGLKRHIEKHRYHVRMLETILRMLDNDSILVDAIRKIKDDVEYYVDSSQDPDFEENEFLYDDLDLEDIPQALVATSPPSHSHMEDEIFNQSSSTPTSTTSSSPIPPSPANCTTENSEDDKKRGRSTDSEVSQSPAKNGSKPVHSNQHPQSPAVPPTYPSGPPPAASALSTTPGNNGVPAPAAPPSALGPKASPAPSHNSGTPAPYAQAVAPPAPSGPSTTQPRPPSVQPSGGGGGGSGGGGSSSSSNSSAGGGAGKQNGATSYSSVVADSPAEVALSSSGGNNASSQALGPPSGPHNPPPSTSKEPSAAAPTGAGGVAPGSGNNSGGPSLLVPLPVNPPSSPTPSFSDAKAAGALLNGPPQFSTAPEIKAPEPLSSLKSMAERAAISSGIEDPVPTLHLTERDIILSSTSAPPASAQPPLQLSEVNIPLSLGVCPLGPVPLTKEQLYQQAMEEAAWHHMPHPSDSERIRQYLPRNPCPTPPYHHQMPPPHSDTVEFYQRLSTETLFFIFYYLEGTKAQYLAAKALKKQSWRFHTKYMMWFQRHEEPKTITDEFEQGTYIYFDYEKWGQRKKEGFTFEYRYLEDRDLQ |
| 228 | sp|Q9NPC3|CIP1\_HUMAN | MSLCEDMLLCNYRKCRIKLSGYAWVTACSHIFCDQHGSGEFSRSPAICPACNSTLSGKLDIVRTELSPSEEYKAMVLAGLRPEIVLDISSRALAFWTYQVHQERLYQEYNFSKAEGHLKQMEKIYTQQIQSKDVELTSMKGEVTSMKKVLEEYKKKFSDISEKLMERNRQYQKLQGLYDSLRLRNITIANHEGTLEPSMIAQSGVLGFPLGNNSKFPLDNTPVRNRGDGDGDFQFRPFFAGSPTAPEPSNSFFSFVSPSRELEQQQVSSRAFKVKRI |
| 229 | sp|Q5APR8|CLA4\_CANAL | MTSIYTSDLKNHRRAPPPPNGAAGSGSGSSSGSGSGSGSGSGSGSLTNIVTSSNSLGVTANQTKPIQLNINSSKRQSGWVHVKDDGIFTSFRWNKRFMVINDKTLNFYKQEPYSSDGNSNSNTPDLSFPLYLINNINLKPNSGYSKTSQSFEIVPKNNNKSILISVKTNNDYLDWLDAFTTKCPLVQIGENNSGVSSSHPHLQIQHLTNGSLNGNSSSSPTSGLSSSSVLTGGNSGVSGPINFTHKVHVGFDPASGNFTGLPDTWKSLLQHSKITNEDWKKDPVAVIKVLEFYSDINGGNSAAGTPIGSPMINSKTNNNNNDPNNYSSAKNNVQEANLQEWVKPPAKSTVSQFKPSRAAPKPPTPYHLTQLNGSSHQHTSSSGSLPSSGNNNNNNNSTNNNNTKNVSPLNNLMNKSELIPARRAPPPPTSGTSSDTYSNKNHQDRSGYEQQRQQRTDSSQQQQQQQKQHQYQQKSQQQQQQPLSSHQGGTSHIPKQVPPTLPSSGPPTQAASGKSMPSKIHPDLKIQQGTNNYIKSSGTDANQVDGDAKQFIKPFNLQSKKSQQQLASKQPSPPSSQQQQQKPMTSHGLMGTSHSVTKPLNPVNDPIKPLNLKSSKSKEALNETSGVSKTPSPTDKSNKPTAPASGPAVTKTAKQLKKERERLNDLQIIAKLKTVVNNQDPKPLFRIVEKAGQGASGNVYLAEMIKDNNRKIAIKQMDLDAQPRKELIINEILVMKDSQHKNIVNFLDSYLIGDNELWVIMEYMQGGSLTEIIENNDFKLNEKQIATICFETLKGLQHLHKKHIIHRDIKSDNVLLDAYGNVKITDFGFCAKLTDQRNKRATMVGTPYWMAPEVVKQKEYDEKVDVWSLGIMTIEMIEGEPPYLNEEPLKALYLIATNGTPKLKKPELLSNSIKKFLSICLCVDVRYRASTDELLEHSFIQHKSGKIEELAPLLEWKKQQQKHQQHKQETSDTGFA |
| 230 | sp|Q9XSC5|CLUS\_RABIT | MKTLLLCVGLLLSWERGQVLGDQLVSDNELQEMSTQGSKYIDREIQNAVKGVQEIKTLIEKTNEERKTLLSVLEEAKKNKEDALNETRDSETKLKAFPEVCNETMMALWEECKPCLKQTCMKFYARVCRSGSGLVGRQLEEFLNQSSPFYFWINGDRIDSLLENDRQQSHVLDVMQDSFNRATGIMDELFQDRFFTHKPQDTFYHSPFSYFRRPPLHYAKSRLVRNIMPLSLYGPLNFQDMFQPFFEMIHQAQQAMDVHLHSPAYQTPNVEFITGGPDDRAVCKEIRHNSTGCLRMKDQCAKCQEILSVDCSANNPSQNQLRQELNDSLRLAEELTKRYNELLQSYQWKMLNTSSLLDQPNEQFNWVSQLANLTQGPDQYYLRVSTVTSHTSESEAPSRVTEVVVKLFDSDPITITIPEEVSRDNPKFMETVAEKALQEYRKKKRVE |
| 231 | sp|Q9Y271|CLTR1\_HUMAN | MDETGNLTVSSATCHDTIDDFRNQVYSTLYSMISVVGFFGNGFVLYVLIKTYHKKSAFQVYMINLAVADLLCVCTLPLRVVYYVHKGIWLFGDFLCRLSTYALYVNLYCSIFFMTAMSFFRCIAIVFPVQNINLVTQKKARFVCVGIWIFVILTSSPFLMAKPQKDEKNNTKCFEPPQDNQTKNHVLVLHYVSLFVGFIIPFVIIIVCYTMIILTLLKKSMKKNLSSHKKAIGMIMVVTAAFLVSFMPYHIQRTIHLHFLHNETKPCDSVLRMQKSVVITLSLAASNCCFDPLLYFFSGGNFRKRLSTFRKHSLSSVTYVPRKKASLPEKGEEICKV |
| 232 | sp|Q2V419|CKB12\_ARATH | MEKYEKLEKVGEGTYGKVYKAMEKTTGKLVALKKTRLEMDEEGIPPTALREISLLQMLSQSIYIVRLLCVEHVIQSKDSTVSHSPKSNLYLVFEYLDTDLKKFIDSHRKGSNPRPLEASLVQRFMFQLFKGVAHCHSHGVLHRDLKPQNLLLDKDKGILKIADLGLSRAFTVPLKAYTHEIVTLWYRAPEVLLGSTHYSTAVDIWSVGCIFAEMIRRQALFPGDSEFQQLLHIFRLLGTPTEQQWPGVMALRDWHVYPKWEPQDLSRAVPSLSPEGIDLLTQMLKYNPAERISAKAALDHPYFDSLDKSQF |
| 233 | sp|P0DOC6|CS13A\_LEPSD | MGNLFGHKRWYEVRDKKDFKIKRKVKVKRNYDGNKYILNINENNNKEKIDNNKFIRKYINYKKNDNILKEFTRKFHAGNILFKLKGKEGIIRIENNDDFLETEEVVLYIEAYGKSEKLKALGITKKKIIDEAIRQGITKDDKKIEIKRQENEEEIEIDIRDEYTNKTLNDCSIILRIIENDELETKKSIYEIFKNINMSLYKIIEKIIENETEKVFENRYYEEHLREKLLKDDKIDVILTNFMEIREKIKSNLEILGFVKFYLNVGGDKKKSKNKKMLVEKILNINVDLTVEDIADFVIKELEFWNITKRIEKVKKVNNEFLEKRRNRTYIKSYVLLDKHEKFKIERENKKDKIVKFFVENIKNNSIKEKIEKILAEFKIDELIKKLEKELKKGNCDTEIFGIFKKHYKVNFDSKKFSKKSDEEKELYKIIYRYLKGRIEKILVNEQKVRLKKMEKIEIEKILNESILSEKILKRVKQYTLEHIMYLGKLRHNDIDMTTVNTDDFSRLHAKEELDLELITFFASTNMELNKIFSRENINNDENIDFFGGDREKNYVLDKKILNSKIKIIRDLDFIDNKNNITNNFIRKFTKIGTNERNRILHAISKERDLQGTQDDYNKVINIIQNLKISDEEVSKALNLDVVFKDKKNIITKINDIKISEENNNDIKYLPSFSKVLPEILNLYRNNPKNEPFDTIETEKIVLNALIYVNKELYKKLILEDDLEENESKNIFLQELKKTLGNIDEIDENIIENYYKNAQISASKGNNKAIKKYQKKVIECYIGYLRKNYEELFDFSDFKMNIQEIKKQIKDINDNKTYERITVKTSDKTIVINDDFEYIISIFALLNSNAVINKIRNRFFATSVWLNTSEYQNIIDILDEIMQLNTLRNECITENWNLNLEEFIQKMKEIEKDFDDFKIQTKKEIFNNYYEDIKNNILTEFKDDINGCDVLEKKLEKIVIFDDETKFEIDKKSNILQDEQRKLSNINKKDLKKKVDQYIKDKDQEIKSKILCRIIFNSDFLKKYKKEIDNLIEDMESENENKFQEIYYPKERKNELYIYKKNLFLNIGNPNFDKIYGLISNDIKMADAKFLFNIDGKNIRKNKISEIDAILKNLNDKLNGYSKEYKEKYIKKLKENDDFFAKNIQNKNYKSFEKDYNRVSEYKKIRDLVEFNYLNKIESYLIDINWKLAIQMARFERDMHYIVNGLRELGIIKLSGYNTGISRAYPKRNGSDGFYTTTAYYKFFDEESYKKFEKICYGFGIDLSENSEINKPENESIRNYISHFYIVRNPFADYSIAEQIDRVSNLLSYSTRYNNSTYASVFEVFKKDVNLDYDELKKKFKLIGNNDILERLMKPKKVSVLELESYNSDYIKNLIIELLTKIENTNDTL |
| 234 | sp|Q9SRW9|CSLD5\_ARATH | MVKSAASQSPSPVTITVTPCKGSGDRSLGLTSPIPRASVITNQNSPLSSRATRRTSISSGNRRSNGDEGRYCSMSVEDLTAETTNSECVLSYTVHIPPTPDHQTVFASQESEEDEMLKGNSNQKSFLSGTIFTGGFKSVTRGHVIDCSMDRADPEKKSGQICWLKGCDEKVVHGRCECGFRICRDCYFDCITSGGGNCPGCKEPYRDINDDPETEEEDEEDEAKPLPQMGESKLDKRLSVVKSFKAQNQAGDFDHTRWLFETKGTYGYGNAVWPKDGYGIGSGGGGNGYETPPEFGERSKRPLTRKVSVSAAIISPYRLLIALRLVALGLFLTWRVRHPNREAMWLWGMSTTCELWFALSWLLDQLPKLCPVNRLTDLGVLKERFESPNLRNPKGRSDLPGIDVFVSTADPEKEPPLVTANTILSILAVDYPVEKLACYLSDDGGALLTFEALAQTASFASTWVPFCRKHNIEPRNPEAYFGQKRNFLKNKVRLDFVRERRRVKREYDEFKVRINSLPEAIRRRSDAYNVHEELRAKKKQMEMMMGNNPQETVIVPKATWMSDGSHWPGTWSSGETDNSRGDHAGIIQAMLAPPNAEPVYGAEADAENLIDTTDVDIRLPMLVYVSREKRPGYDHNKKAGAMNALVRTSAIMSNGPFILNLDCDHYIYNSMALREGMCFMLDRGGDRICYVQFPQRFEGIDPNDRYANHNTVFFDVSMRALDGLQGPMYVGTGCIFRRTALYGFSPPRATEHHGWLGRRKVKISLRRPKAMMKKDDEVSLPINGEYNEEENDDGDIESLLLPKRFGNSNSFVASIPVAEYQGRLIQDLQGKGKNSRPAGSLAVPREPLDAATVAEAISVISCFYEDKTEWGKRVGWIYGSVTEDVVTGYRMHNRGWRSIYCVTKRDAFRGTAPINLTDRLHQVLRWATGSVEIFFSRNNAIFATRRMKFLQRVAYFNVGMYPFTSLFLIVYCILPAISLFSGQFIVQSLDITFLIYLLSITLTLCMLSLLEIKWSGITLHEWWRNEQFWVIGGTSAHPAAVLQGLLKVIAGVDISFTLTSKSSAPEDGDDEFADLYVVKWSFLMVPPLTIMMVNMIAIAVGLARTLYSPFPQWSKLVGGVFFSFWVLCHLYPFAKGLMGRRGRVPTIVFVWSGLLSIIVSLLWVYINPPSGKQDYMQFQFP |
| 235 | sp|A0Q7Q2|CS12A\_FRATN | MSIYQEFVNKYSLSKTLRFELIPQGKTLENIKARGLILDDEKRAKDYKKAKQIIDKYHQFFIEEILSSVCISEDLLQNYSDVYFKLKKSDDDNLQKDFKSAKDTIKKQISEYIKDSEKFKNLFNQNLIDAKKGQESDLILWLKQSKDNGIELFKANSDITDIDEALEIIKSFKGWTTYFKGFHENRKNVYSSNDIPTSIIYRIVDDNLPKFLENKAKYESLKDKAPEAINYEQIKKDLAEELTFDIDYKTSEVNQRVFSLDEVFEIANFNNYLNQSGITKFNTIIGGKFVNGENTKRKGINEYINLYSQQINDKTLKKYKMSVLFKQILSDTESKSFVIDKLEDDSDVVTTMQSFYEQIAAFKTVEEKSIKETLSLLFDDLKAQKLDLSKIYFKNDKSLTDLSQQVFDDYSVIGTAVLEYITQQIAPKNLDNPSKKEQELIAKKTEKAKYLSLETIKLALEEFNKHRDIDKQCRFEEILANFAAIPMIFDEIAQNKDNLAQISIKYQNQGKKDLLQASAEDDVKAIKDLLDQTNNLLHKLKIFHISQSEDKANILDKDEHFYLVFEECYFELANIVPLYNKIRNYITQKPYSDEKFKLNFENSTLANGWDKNKEPDNTAILFIKDDKYYLGVMNKKNNKIFDDKAIKENKGEGYKKIVYKLLPGANKMLPKVFFSAKSIKFYNPSEDILRIRNHSTHTKNGSPQKGYEKFEFNIEDCRKFIDFYKQSISKHPEWKDFGFRFSDTQRYNSIDEFYREVENQGYKLTFENISESYIDSVVNQGKLYLFQIYNKDFSAYSKGRPNLHTLYWKALFDERNLQDVVYKLNGEAELFYRKQSIPKKITHPAKEAIANKNKDNPKKESVFEYDLIKDKRFTEDKFFFHCPITINFKSSGANKFNDEINLLLKEKANDVHILSIDRGERHLAYYTLVDGKGNIIKQDTFNIIGNDRMKTNYHDKLAAIEKDRDSARKDWKKINNIKEMKEGYLSQVVHEIAKLVIEYNAIVVFEDLNFGFKRGRFKVEKQVYQKLEKMLIEKLNYLVFKDNEFDKTGGVLRAYQLTAPFETFKKMGKQTGIIYYVPAGFTSKICPVTGFVNQLYPKYESVSKSQEFFSKFDKICYNLDKGYFEFSFDYKNFGDKAAKGKWTIASFGSRLINFRNSDKNHNWDTREVYPTKELEKLLKDYSIEYGHGECIKAAICGESDKKFFAKLTSVLNTILQMRNSKTGTELDYLISPVADVNGNFFDSRQAPKNMPQDADANGAYHIGLKGLMLLGRIKNNQEGKKLNLVIKNEEYFEFVQNRNN |
| 236 | sp|P25651|CSM1\_YEAST | MDPLTVYKNSVKQQIDSADLLVANLVNENFVLSEKLDTKATEIKQLQKQIDSLNAQVKELKTQTSQQAENSEVIKDLYEYLCNVRVHKSYEDDSGLWFDISQGTHSGGSSDDYSIMDYKLGFVKGQAQVTEVIYAPVLKQRSTEELYSLQSKLPEYLFETLSFPLSSLNQFYNKIAKSLNKKREKKDETE |
| 237 | sp|Q8N1N5|CRPAK\_HUMAN | MHEPSLCANVECPPAHTCPCGVPACSCAHVECPPAHTCRCGVPACSHMPMWSARLLTRAHVECPPAHTRVHVECPPAHVPMWSAHLLTCADVECHLLTHVPMWSARLLTCPCGVPACSHVPMRSARLLTRAHAECPPAHTCPCGVPACSHVPMRSARLLTRADVECPPAHTCPCGVPACSHVPTWSARLITRAHVECSPAHTCRCGVPACSHVPMWSVRLLTRADAECPPAHTCRCGVPACSHVPMWSARLLTCRCGVPACSHVPMWSARLLTCRCGVPACSHVPMWSARLLTRAHVECPPAHTCRRGVPACSRAHMECPPAHTCHCGVPACSHTCRCGVPACSHVPMWSARLLTRAHVECPPAHTRAHVECPPAHTCPCGVPACSHTCPCGVPACSHKALAWWFCRFPVLPAESDAVTVHSTHGGFLIRFYVKDPFYISLHLEIT |
| 238 | sp|P38930|CSK2C\_YEAST | MGSRSENVGTVTREGSRVEQDDVLMDDDSDSSEYVDMWIDLFLGRKGHEYFCDVDPEYITDRFNLMNLQKTVSKFSYVVQYIVDDLDDSILENMTHARLEQLESDSRKLYGLIHARYIITIKGLQKMYAKYKEADFGRCPRVYCNLQQLLPVGLHDIPGIDCVKLYCPSCEDLYIPKSSRHSSIDGAYFGTSFPGMFLQAFPDMVPKHPTKRYVPKIFGFELHKQAQLTRWQELQRLKLVEKLESKDVDLTKSGGFKT |
| 239 | sp|Q6UUV9|CRTC1\_HUMAN | MATSNNPRKFSEKIALHNQKQAEETAAFEEVMKDLSLTRAARLQLQKSQYLQLGPSRGQYYGGSLPNVNQIGSGTMDLPFQTPFQSSGLDTSRTTRHHGLVDRVYRERGRLGSPHRRPLSVDKHGRQADSCPYGTMYLSPPADTSWRRTNSDSALHQSTMTPTQPESFSSGSQDVHQKRVLLLTVPGMEETTSEADKNLSKQAWDTKKTGSRPKSCEVPGINIFPSADQENTTALIPATHNTGGSLPDLTNIHFPSPLPTPLDPEEPTFPALSSSSSTGNLAANLTHLGIGGAGQGMSTPGSSPQHRPAGVSPLSLSTEARRQQASPTLSPLSPITQAVAMDALSLEQQLPYAFFTQAGSQQPPPQPQPPPPPPPASQQPPPPPPPQAPVRLPPGGPLLPSASLTRGPQPPPLAVTVPSSLPQSPPENPGQPSMGIDIASAPALQQYRTSAGSPANQSPTSPVSNQGFSPGSSPQHTSTLGSVFGDAYYEQQMAARQANALSHQLEQFNMMENAISSSSLYSPGSTLNYSQAAMMGLTGSHGSLPDSQQLGYASHSGIPNIILTVTGESPPSLSKELTSSLAGVGDVSFDSDSQFPLDELKIDPLTLDGLHMLNDPDMVLADPATEDTFRMDRL |
| 240 | sp|P12791|CP2BA\_MOUSE | MEPSVLLLLALLVGFLLLLARGHPKSRGNFPPGPRPLPLLGNLLQMDRGGLLKSLIQLREKYGDVFTVHLGPRPVVMLCGTDTIREALVGQAEAFSGRGTVAVVEPTFKEYGVIFANGERWKTLRRFSLATMRDFGMGKRSVEERIQEEAQCLVEELRKSQGAPLDPTFLFQCITANVICSIVFGERFEYTDRQFLRLLELFYQTFSLISSFSSQMFELFSGFLKYFPGAHRQISKNLQELLDYIGHSVERHKATLDPSVPRDFIDIYLLRMEKEKSNQNAEFHHQNLMMSVLSLFFVGTETSSTTLHYGFLLMLKYPHVTEKVQKEIDQVIGSHRLPTLDDRTKMPYSDAVIHEIQRFSDLIPIGVPHRVTKDTLFRGYLLPKNTEVYPILSSALHDPQYFEQPDSFNPDQFLDANGALKKSEAFLPFSTGQIFDQKSVGKRICLGESIARSELFLFFTSILQNFSVASHVAPKDIDLTPKESGIGKIPPTYQICFLAR |
| 241 | sp|P34998|CRFR1\_HUMAN | MGGHPQLRLVKALLLLGLNPVSASLQDQHCESLSLASNISGLQCNASVDLIGTCWPRSPAGQLVVRPCPAFFYGVRYNTTNNGYRECLANGSWAARVNYSECQEILNEEKKSKVHYHVAVIINYLGHCISLVALLVAFVLFLRLRPGCTHWGDQADGALEVGAPWSGAPFQVRRSIRCLRNIIHWNLISAFILRNATWFVVQLTMSPEVHQSNVGWCRLVTAAYNYFHVTNFFWMFGEGCYLHTAIVLTYSTDRLRKWMFICIGWGVPFPIIVAWAIGKLYYDNEKCWFGKRPGVYTDYIYQGPMILVLLINFIFLFNIVRILMTKLRASTTSETIQYRKAVKATLVLLPLLGITYMLFFVNPGEDEVSRVVFIYFNSFLESFQGFFVSVFYCFLNSEVRSAIRKRWHRWQDKHSIRARVARAMSIPTSPTRVSFHSIKQSTAV |
| 242 | sp|P06299|COLI2\_XENLA | MFRPTGGCSLAILGVFIFHIGEVQSQCWESSRCADLSSEDGILECIKACKMDLSAESPVFPGNGHLQPLSESIRKYVMTHFRWNKFGRRNNTGNDGSSGGYKREDISNYPVLNLFPSSDNQNAQGDNMEEEPMDRQENKRAYSMEHFRWGKPVGRKRRPIKVYPNGVEEESAESFPMELRRELSLELDYPEIDLDEDIEDNEVERALTKKNGNYRMHHFRWGSPPKDKRYGGFMTPERSQTPLMTLFKNAIIKNTHKKGL |
| 243 | sp|Q9LZP9|CP122\_ARATH | MATIATGLNIATQRVFVTSENRPVCLAGPVHLNNSWNLGSRTTNRMMKLQPIKAAPEGGISDVVEKSIKEAQETCAGDPVSGECVAAWDEVEELSAAASHARDKKKADGSDPLEEYCKDNPETNECRTYDN |
| 244 | sp|Q08477|CP4F3\_HUMAN | MPQLSLSSLGLWPMAASPWLLLLLVGASWLLARILAWTYTFYDNCCRLRCFPQPPKRNWFLGHLGLIHSSEEGLLYTQSLACTFGDMCCWWVGPWHAIVRIFHPTYIKPVLFAPAAIVPKDKVFYSFLKPWLGDGLLLSAGEKWSRHRRMLTPAFHFNILKPYMKIFNESVNIMHAKWQLLASEGSARLDMFEHISLMTLDSLQKCVFSFDSHCQEKPSEYIAAILELSALVTKRHQQILLYIDFLYYLTPDGQRFRRACRLVHDFTDAVIQERRRTLPSQGVDDFLQAKAKSKTLDFIDVLLLSKDEDGKKLSDEDIRAEADTFMFEGHDTTASGLSWVLYHLAKHPEYQERCRQEVQELLKDREPKEIEWDDLAQLPFLTMCIKESLRLHPPVPAVSRCCTQDIVLPDGRVIPKGIICLISVFGTHHNPAVWPDPEVYDPFRFDPKNIKERSPLAFIPFSAGPRNCIGQAFAMAEMKVVLGLTLLRFRVLPDHTEPRRKPELVLRAEGGLWLRVEPLS |
| 245 | sp|Q07092|COGA1\_HUMAN | MWVSWAPGLWLLGLWATFGHGANTGAQCPPSQQEGLKLEHSSSLPANVTGFNLIHRLSLMKTSAIKKIRNPKGPLILRLGAAPVTQPTRRVFPRGLPEEFALVLTLLLKKHTHQKTWYLFQVTDANGYPQISLEVNSQERSLELRAQGQDGDFVSCIFPVPQLFDLRWHKLMLSVAGRVASVHVDCSSASSQPLGPRRPMRPVGHVFLGLDAEQGKPVSFDLQQVHIYCDPELVLEEGCCEILPAGCPPETSKARRDTQSNELIEINPQSEGKVYTRCFCLEEPQNSEVDAQLTGRISQKAERGAKVHQETAADECPPCVHGARDSNVTLAPSGPKGGKGERGLPGPPGSKGEKGARGNDCVRISPDAPLQCAEGPKGEKGESGALGPSGLPGSTGEKGQKGEKGDGGIKGVPGKPGRDGRPGEICVIGPKGQKGDPGFVGPEGLAGEPGPPGLPGPPGIGLPGTPGDPGGPPGPKGDKGSSGIPGKEGPGGKPGKPGVKGEKGDPCEVCPTLPEGFQNFVGLPGKPGPKGEPGDPVPARGDPGIQGIKGEKGEPCLSCSSVVGAQHLVSSTGASGDVGSPGFGLPGLPGRAGVPGLKGEKGNFGEAGPAGSPGPPGPVGPAGIKGAKGEPCEPCPALSNLQDGDVRVVALPGPSGEKGEPGPPGFGLPGKQGKAGERGLKGQKGDAGNPGDPGTPGTTGRPGLSGEPGVQGPAGPKGEKGDGCTACPSLQGTVTDMAGRPGQPGPKGEQGPEGVGRPGKPGQPGLPGVQGPPGLKGVQGEPGPPGRGVQGPQGEPGAPGLPGIQGLPGPRGPPGPTGEKGAQGSPGVKGATGPVGPPGASVSGPPGRDGQQGQTGLRGTPGEKGPRGEKGEPGECSCPSQGDLIFSGMPGAPGLWMGSSWQPGPQGPPGIPGPPGPPGVPGLQGVPGNNGLPGQPGLTAELGSLPIEQHLLKSICGDCVQGQRAHPGYLVEKGEKGDQGIPGVPGLDNCAQCFLSLERPRAEEARGDNSEGDPGCVGSPGLPGPPGLPGQRGEEGPPGMRGSPGPPGPIGPPGFPGAVGSPGLPGLQGERGLTGLTGDKGEPGPPGQPGYPGATGPPGLPGIKGERGYTGSAGEKGEPGPPGSEGLPGPPGPAGPRGERGPQGNSGEKGDQGFQGQPGFPGPPGPPGFPGKVGSPGPPGPQAEKGSEGIRGPSGLPGSPGPPGPPGIQGPAGLDGLDGKDGKPGLRGDPGPAGPPGLMGPPGFKGKTGHPGLPGPKGDCGKPGPPGSTGRPGAEGEPGAMGPQGRPGPPGHVGPPGPPGQPGPAGISAVGLKGDRGATGERGLAGLPGQPGPPGHPGPPGEPGTDGAAGKEGPPGKQGFYGPPGPKGDPGAAGQKGQAGEKGRAGMPGGPGKSGSMGPVGPPGPAGERGHPGAPGPSGSPGLPGVPGSMGDMVNYDEIKRFIRQEIIKMFDERMAYYTSRMQFPMEMAAAPGRPGPPGKDGAPGRPGAPGSPGLPGQIGREGRQGLPGVRGLPGTKGEKGDIGIGIAGENGLPGPPGPQGPPGYGKMGATGPMGQQGIPGIPGPPGPMGQPGKAGHCNPSDCFGAMPMEQQYPPMKTMKGPFG |
| 246 | sp|Q03101|CYAG\_DICDI | MKKTFVKILSKSYVEGYPVGFFIGLIILAIFGSMVCIFSFMHYSEEENSNIQMDLERSSKQIIHNIQMNAMYLLSSIDTLKALYYVNPNFDRNDFNVFLNTTLKNSEFQYLFWIKKINNNDRNCFEEKFSKEIKDTFQIYSFDENTNSIHVAKNKSSYFPILHAFPDINKDIIGLDINSTDYMNETIKKSIFNKKPTVHLNKKVLLSKRNIDILIVSPIIVTKTLESTNETMEDMSHISSGLFLMEKNVQASRIEVENGNDFTIFLSTTNGEIVYQENYLNFKTLYQVHESGLFEDRLKYESSLKIADCVLKLWIFTTEEYENNSKTYLPLLVSIISAVILVLLITYSVDQRKQKSLIAKIMREKNNLINKILPLEVSVKLENGEDVVAERSNNACVFFLDIAGFTRFSSIHSPEQVIQVLIKIFNSMDLLCAKHGIEKIKTIGDAYMATCGIFPKCDDIRHNTYKMLGFAMDVLEFIPKEMSFHLGLQVRVGIHCGPVISGVISGYAKPHFDVWGDTVNVASRMESTGIAGQIHVSDRVYQLGKEDFNFSERCDIIHVKGKGRMKTWYLMGKKSSDFSLKKDFSRSRVQPSLFNRKQSHVHCIYPEFPSGLQALNIENNLNNTDAGCENCSKILKKTYAYSPDHSTSNYYYHGDDNSPPPPSLNSNDLIDGSEYHDDPFPSDSNVGYHDTSKDIKEDENEQNETLLFNQEQLKKKQIENIQRDLSLNDSIEAIKILNNNNNNNINDNNINNTNLNNNNNDININNSDNVNNYENNNNFSDKIENNDGDNNNINDNNYKSTNENNIKSKTLFKDSKSLINDIKMAKENCDNNDDNNNNNNNNNNNNNNDENVESKKNK |
| 247 | sp|P43079|CPH1\_CANAL | MSITKTYNGDPTSLVPTQSVKESLRLIEDLKFFLATAPANWQENQVIRRYYLNHDEGFVSCVYWNNLYFITGTDIVRCIVYKFEHFGRKIIDRKKFEEGIFSDLRNLKCGADAILEPPRSEFLEFLFKNSCLRTQKKQKVFFWFNVPHDKLMADALERDLKKEKMGQRPTTMAHREPALSFHYDESSSLYTQLGKHMETQKRINDAATSSTSNTATTLTDTGVSSGLNNTTSGGGSDSATSTHNNNEASTKPSNGSEKSSPEYTTTARGRDEFGFLNEATPSQYKANSDYEDDFPLDYINQTTQNSEDYITLDANYQAGSYANMIEDNYDSFLDATLFIPPSLGVPTGTAATATTSNQVAFNDEYLIEQAQPIRTPLPPISSSTISGLLQPKSAAKFFSLQSANGGEEFFPAYQNDPSTANAGFVPPISAKYATQFATRQVATPTYIKAIPQTGAAAATGNGGQPQQYYDQATGNAFYPAEIPVSYNVVHPESEYWTNNSGAVATTAAATAPMYDASGFPIPINQSYMVMNEHEMVPYQYMNSNGAMIGMIPPHQQQQQQQQQIAMGYQSMLRQQQQQQQQQQQQQPSSTMTKKKKQIHSFNNNKSLSSNGGGITKKSHDNNNHSKVKTSYGSLNDVVNSKVTKVINKEEVKQSQT |
| 248 | sp|P34271|CUP4\_CAEEL | MKIIIFVCFILIFYLPIQKKHVNSQQQGIDSDDGDAESFFNKSYSEHQSALEQKIFRGYNPKNRPMKNASFPTIVDVHWHIIHVSINQREQTMTVHGHIYMRWFDEFLVWDPKDFNNIQYARVKKWQVWQPKIKVSNSASGLGSAFDFSTSAHVIIQMMGKDRAKVEMYPTFSIKVGCAFDFTDYPYDLNKCAINLFSTSTMADVQLQNLYAIPPTLSFGWEEQKMKRIISDFKIQNVSSSALYYTNGNITSSAPITGFDLGSTWSMLAVTVSFVRHSPLFEAAVVTPCIVVASLISMTFFIDSLSSTFLLMMLHFYVQLIFLHDLVEKLPLSVSEIPFCIKLIGILMYTNGLTLVLHSSLLCGSYYKCPVPQQLNKIFVIEEYIPNTFKEKVQIKKEESNKSWRDLMKLIRPIIGFVLIILLICMFFVCLLL |
| 249 | sp|P81534|D103A\_HUMAN | MRIHYLLFALLFLFLVPVPGHGGIINTLQKYYCRVRGGRCAVLSCLPKEEQIGKCSTRGRKCCRRKK |
| 250 | sp|Q2VPK5|CTU2\_HUMAN | MCQVGEDYGEPAPEEPPPAPRPSREQKCVKCKEAQPVVVIRAGDAFCRDCFKAFYVHKFRAMLGKNRLIFPGEKVLLAWSGGPSSSSMVWQVLEGLSQDSAKRLRFVAGVIFVDEGAACGQSLEERSKTLAEVKPILQATGFPWHVVALEEVFSLPPSVLWCSAQELVGSEGAYKAAVDSFLQQQHVLGAGGGPGPTQGEEQPPQPPLDPQNLARPPAPAQTEALSQLFCSVRTLTAKEELLQTLRTHLILHMARAHGYSKVMTGDSCTRLAIKLMTNLALGRGAFLAWDTGFSDERHGDVVVVRPMRDHTLKEVAFYNRLFSVPSVFTPAVDTKAPEKASIHRLMEAFILRLQTQFPSTVSTVYRTSEKLVKGPRDGPAAGDSGPRCLLCMCALDVDAADSATAFGAQTSSRLSQMQSPIPLTETRTPPGPCCSPGVGWAQRCGQGACRREDPQACIEEQLCYSCRVNMKDLPSLDPLPPYILAEAQLRTQRAWGLQEIRDCLIEDSDDEAGQS |
| 251 | sp|Q8VE73|CUL7\_MOUSE | MVGELRYREFRVPLGPGLHAYPDELIRQRVGHNGHPEYQIRWLILRRGDDGDRDSTVDCKAEHILLWMSDDEIYANCHKMLGENGQVIAPSRESTEAGALDKSVLGEMETDVKSLIQRALRQLEECVGTVPPAPLLHTVHVLSAYASIEPLTGIFKDRRVVNLLMHMLSSPDYQIRWSAGRMIQALSSHDAGTRTQILLSLSQQEAIEKHLDFDSRCALLALFAQATLTEHPMSFEGVQLPQVPGRLLFSLVKRYLHVTFLLDRLNGDAGDQGAQNNFIPEELNVGRGRLELEFSMAMGTLISELVQAMRWDGASSRPESSSSSTFQPRPAQFRPYTQRFRRSRRFRPRASFASFNTYALYVRDTLRPGMRVRMLENYEEIAAGDEGQFRQSNDGVPPAQVLWDSTGHTYWVHWHMLEILGFEEDIEDVIDIEELQELGANGALSIVPPSQRWKPITQLFAEPYVVPEEEDREESENLTQAEWWELLFFIRQLSEAERLHIVDLLQDHLEEERVLDYDMLPELTVPVDLAQDLLLSLPQQLEDSALRDLFSCSVYRKYGPEVLVGHLSYPFVPGAQPNLFGANEESEAKDPPLQSASPALQRLVESLGPEGEVLVELEQALGSEAPQETEVKSCLLQLQEQPQPFLALMRSLDTSASNKTLHLTVLRILMQLVNFPEALLLPWHEAMDACVTCLRSPNTDREVLQELIFFLHRLTTTSRDYAVILNQLGARDAISKVLEKHRGKLELAQELRDMVSKCEKHAHLYRKLTTNILGGCIQMVLGQIEDHRRTHRPIQIPFFDVFLRYLCQGSSEEMKKNRYWEKVEVSSNPQRASRLTDRNPKTYWESSGRAGSHFITLHMRPGVIIRQLTLLVAGEDSSYMPAWVVVCGGNSIKSVNKELNTVNVMPSASRVTLLENLTRFWPIIQIRIKRCQQGGINTRIRGLEVLGPKPTFWPVFREQLCRHTRLFYMVRAQAWSQDIAEDRRSLLHLSSRLNGALRHEQNFAERFLPDMEAAQALSKTCWEALVSPLVQNITSPDEDSTSSLGWLLDQYLGCREAAYNPQSRAAAFSSRVRRLTHLLVHVEPREAAPPVVAIPRSKGRNRIHDWSYLITRGLPSSIMKNLTRCWRSVVEEQMNKFLTASWKDDDFVPRYCERYYVLQKSSSELFGPRAAFLLAMRNGCADAVLRLPFLRAAHVSEQFARHIDQRIQGSRMGGARGMEMLAQLQRCLESVLIFSPLEIATTFEHYYQHYMADRLLSVGSSWLEGAVLEQIGPCFPSRLPQQMLQSLNVSEELQRQFHVYQLQQLDQELLKLEDTEKKIQVAHEDSGREDKSKKEEAIGEAAAVAMAEEEDQGKKEEGEEEGEGEDEEEERYYKGTMPEVCVLVVTPRFWPVASVCQMLNPATCLPAYLRGTINHYTNFYSKSQSRSSLEKEPQRRLQWTWQGRAEVQFGGQILHVSTVQMWLLLHLNNQKEVSVESLQAISELPPDVLHRAIGPLTSSRGPLDLQEQKNVPGGVLKIRDDSEEPRPRRGNVWLIPPQTYLQAEAEEGRNMEKRRNLLNCLVVRILKAHGDEGLHVDRLVYLVLEAWEKGPCPARGLVSSLGRGATCRSSDVLSCILHLLVKGTLRRHDDRPQVLYYAVPVTVMEPHMESLNPGSAGPNPPLTFHTLQIRSRGVPYASCTDNHTFSTFR |
| 252 | sp|P19938|DAAA\_BACYM | MGYTLWNDQIVKDEEVKIDKEDRGYQFGDGVYEVVKVYNGEMFTVNEHIDRLYASAEKIRITIPYTKDKFHQLLHELVEKNELNTGHIYFQVTRGTSPRAHQFPENTVKPVIIGYTKENPRPLENLEKGVKATFVEDIRWLRCDIKSLNLLGAVLAKQEAHEKGCYEAILHRNNTVTEGSSSNVFGIKDGILYTHPANNMILKGITRDVVIACANEINMPVKEIPFTTHEALKMDELFVTSTTSEITPVIEIDGKLIRDGKVGEWTRKLQKQFETKIPKPLHI |
| 253 | sp|P16410|CTLA4\_HUMAN | MACLGFQRHKAQLNLATRTWPCTLLFFLLFIPVFCKAMHVAQPAVVLASSRGIASFVCEYASPGKATEVRVTVLRQADSQVTEVCAATYMMGNELTFLDDSICTGTSSGNQVNLTIQGLRAMDTGLYICKVELMYPPPYYLGIGNGTQIYVIDPEPCPDSDFLLWILAAVSSGLFFYSFLLTAVSLSKMLKKRSPLTTGVYVKMPPTEPECEKQFQPYFIPIN |
| 254 | sp|Q9MA41|CTL1\_ARATH | MVTIRSGSIVILVLLAVSFLALVANGEDKTIKVKKVRGNKVCTQGWECSWWSKYCCNQTISDYFQVYQFEQLFSKRNTPIAHAVGFWDYQSFITAAALFEPLGFGTTGGKLMGQKEMAAFLGHVASKTSCGYGVATGGPLAWGLCYNREMSPMQSYCDESWKFKYPCSPGAEYYGRGALPIYWNFNYGAAGEALKADLLNHPEYIEQNATLAFQAAIWRWMTPIKRAQPSAHDIFVGNWKPTKNDTLSKRGPTFGSTMNVLYGEYTCGQGSIDPMNNIISHYLYFLDLMGIGREDAGPNDELSCAEQKPFNPSTVPSSSSS |
| 255 | sp|Q5R764|CXAR\_PONAB | MALLLCFVLLCGVVDFARSLSITTPEEMIEKAKGETAYLPCKFTLSPEDQGPLDIEWLISPADNQKVDQVIILYSGDKIYDDYYPDLKGRVHFTSNDLKSGDASINVTNLQLSDIGTYQCKVKKAPGVANKKIHLVVLVKPSGARCYVDGSEEIGSDFKIKCEPKEGSLPLQYEWQKLSDSQKMPTSWLAEMTSSVISVKNASSEYSGTYSCTVRNRVGSDQCLLRLNVVPPSNKAGLIAGAIIGTLLALALIGLIIFCCRKKRREEKYEKEVHHDIREDVPPPKSRTSTARSYIGSNHSSLGSMSPSNMEGYSKTQYNQVPSEDFERTPQSPTLPPAKVAAPNLSRMGAIPVMIPAQSKDGSIV |
| 256 | sp|Q550R2|CTXB\_DICDI | MDLNKEWEKVQEMAFTSWVNSVLEKRGCDKISDVSTDLSDGVKLIYFLESVSGKKFPKKFDLEPKTRIMRVQNLHLAMLFIDEDLKIKVQGVAAEEFVDNNKKMILGFLWTLYRKYRISVINEGDKSSEEGLLAWCKKTTEGYNNVNITGFKSSFRDGHGFLALAHKYDPTVFKYDEYEGHDNIARLNAAFDFAEKGLGIPKLLEAESLSKGNVDERSIVLYTSLFFHAFRAKEEREALEASQNSLNNKLASLEQSLEGEKHSQEELVKQKKDLEDALNKIREQNDNRNSRITDLQSKIDDALRGLDDEKLAKLDLESRLAKCEKDKAILELKLAEILDEKDRLEKKIDEDKKRAEAERLGLGLIRQHLAAQFSDIHKWQSFLEHPETVPYTGTPVDLDSELSSLSFEEQAKKLASKLESENILIEKYLNGKEEAKAAAKK |
| 257 | sp|Q9Y6H8|CXA3\_HUMAN | MGDWSFLGRLLENAQEHSTVIGKVWLTVLFIFRILVLGAAAEDVWGDEQSDFTCNTQQPGCENVCYDRAFPISHIRFWALQIIFVSTPTLIYLGHVLHIVRMEEKKKEREEEEQLKRESPSPKEPPQDNPSSRDDRGRVRMAGALLRTYVFNIIFKTLFEVGFIAGQYFLYGFELKPLYRCDRWPCPNTVDCFISRPTEKTIFIIFMLAVACASLLLNMLEIYHLGWKKLKQGVTSRLGPDASEAPLGTADPPPLPPSSRPPAVAIGFPPYYAHTAAPLGQARAVGYPGAPPPAADFKLLALTEARGKGQSAKLYNGHHHLLMTEQNWANQAAERQPPALKAYPAASTPAAPSPVGSSSPPLAHEAEAGAAPLLLDGSGSSLEGSALAGTPEEEEQAVTTAAQMHQPPLPLGDPGRASKASRASSGRARPEDLAI |
| 258 | sp|P80221|CXCL6\_BOVIN | MRLLSSRAARVSGPSGSLCALLALLLLTPPGPLASAGPVAAVVRELRCVCLTTTPGIHPKTVSDLQVIAAGPQCSKVEVIATLKNGREVCLDPEAPLIKKIVQKILDSGKNN |
| 259 | sp|P77211|CUSC\_ECOLI | MSPCKLLPFCVALALTGCSLAPDYQRPAMPVPQQFSLSQNGLVNAADNYQNAGWRTFFVDNQVKTLISEALVNNRDLRMATLKVQEARAQYRLTDADRYPQLNGEGSGSWSGNLKGNTATTREFSTGLNASFDLDFFGRLKNMSEAERQNYLATEEAQRAVHILLVSNVAQSYFNQQLAYAQLQIAEETLRNYQQSYAFVEKQLLTGSSNVLALEQARGVIESTRSDIAKRQGELAQANNALQLLLGSYGKLPQAQTVNSDSLQSVKLPAGLSSQILLQRPDIMEAEHALMAANANIGAARAAFFPSISLTSGISTASSDLSSLFNASSGMWNFIPKIEIPIFNAGRNQANLDIAEIRQQQSVVNYEQKIQNAFKEVADALALRQSLNDQISAQQRYLASLQITLQRARALYQHGAVSYLEVLDAERSLFATRQTLLDLNYARQVNEISLYTALGGG |
| 260 | sp|P15425|CYPR\_DROME | MKSLLNRIILCSAFLAVASGLSFTVTSRIYMDVKHNKKPVGRITFGLFGKLAPKTVANFRHICLRGINGTSYVGSRFHRVVDRFLVQGGDIVNGDGTGSISIYGDYFPDEDKALAVEHNRPGYLGMANRGPDTNGCQFYVTTVGAKWLDGKHTVFGKVLEGMDTIYAIEDVKTDTDDFPVEPVVISNCGEIPTEQFEFYPDDFNILGWIKAAGLPVTSSFCVLLIFHYFFRQLNMYC |
| 261 | sp|P29349|CSW\_DROME | MSSRRWFHPTISGIEAEKLLQEQGFDGSFLARLSSSNPGAFTLSVRRGNEVTHIKIQNNGDFFDLYGGEKFATLPELVQYYMENGELKEKNGQAIELKQPLICAEPTTERWFHGNLSGKEAEKLILERGKNGSFLVRESQSKPGDFVLSVRTDDKVTHVMIRWQDKKYDVGGGESFGTLSELIDHYKRNPMVETCGTVVHLRQPFNATRITAAGINARVEQLVKGGFWEEFESLQQDSRDTFSRNEGYKQENRLKNRYRNILPYDHTRVKLLDVEHSVAGAEYINANYIRLPTDGDLYNMSSSSESLNSSVPSCPACTAAQTQRNCSNCQLQNKTCVQCAVKSAILPYSNCATCSRKSDSLSKHKRSESSASSSPSSGSGSGPGSSGTSGVSSVNGPGTPTNLTSGTAGCLVGLLKRHSNDSSGAVSISMAEREREREREMFKTYIATQGCLLTQQVNTVTDFWNMVWQENTRVIVMTTKEYERGKEKCARYWPDEGRSEQFGHARIQCVSENSTSDYTLREFLVSWRDQPARRIFHYHFQVWPDHGVPADPGCVLNFLQDVNTRQSHLAQAGEKPGPICVHCSAGIGRTGTFIVIDMILDQIVRNGLDTEIDIQRTIQMVRSQRSGLVQTEAQYKFVYYAVQHYIQTLIARKRAEEQSLQVGREYTNIKYTGEIGNDSQRSPLPPAISSISLVPSKTPLTPTSADLGTGMGLSMGVGMGVGNKHASKQQPPLPVVNCNNNNNGIGNSGCSNGGGSSTTSSSNGSSNGNINALLGGIGLGLGGNMRKSNFYSDSLKQQQQREEQAPAGAGKMQQPAPPLRPRPGILKLLTSPVIFQQNSKTFPKT |
| 262 | sp|Q9HBH1|DEFM\_HUMAN | MARLWGALSLWPLWAAVPWGGAAAVGVRACSSTAAPDGVEGPALRRSYWRHLRRLVLGPPEPPFSHVCQVGDPVLRGVAAPVERAQLGGPELQRLTQRLVQVMRRRRCVGLSAPQLGVPRQVLALELPEALCRECPPRQRALRQMEPFPLRVFVNPSLRVLDSRLVTFPEGCESVAGFLACVPRFQAVQISGLDPNGEQVVWQASGWAARIIQHEMDHLQGCLFIDKMDSRTFTNVYWMKVND |
| 263 | sp|Q8WTU0|DDI1\_HUMAN | MLITVYCVRRDLSEVTFSLQVSPDFELRNFKVLCEAESRVPVEEIQIIHMERLLIEDHCSLGSYGLKDGDIVVLLQKDNVGPRAPGRAPNQPRVDFSGIAVPGTSSSRPQHPGQQQQRTPAAQRSQGLASGEKVAGLQGLGSPALIRSMLLSNPHDLSLLKERNPPLAEALLSGSLETFSQVLMEQQREKALREQERLRLYTADPLDREAQAKIEEEIRQQNIEENMNIAIEEAPESFGQVTMLYINCKVNGHPLKAFVDSGAQMTIMSQACAERCNIMRLVDRRWAGVAKGVGTQRIIGRVHLAQIQIEGDFLQCSFSILEDQPMDMLLGLDMLRRHQCSIDLKKNVLVIGTTGTQTYFLPEGELPLCSRMVSGQDESSDKEITHSVMDSGRKEH |
| 264 | sp|Q9BQT9|CSTN3\_HUMAN | MTLLLLPLLLASLLASCSCNKANKHKPWIEAEYQGIVMENDNTVLLNPPLFALDKDAPLRYAGEICGFRLHGSGVPFEAVILDKATGEGLIRAKEPVDCEAQKEHTFTIQAYDCGEGPDGANTKKSHKATVHVRVNDVNEFAPVFVERLYRAAVTEGKLYDRILRVEAIDGDCSPQYSQICYYEILTPNTPFLIDNDGNIENTEKLQYSGERLYKFTVTAYDCGKKRAADDAEVEIQVKPTCKPSWQGWNKRIEYAPGAGSLALFPGIRLETCDEPLWNIQATIELQTSHVAKGCDRDNYSERALRKLCGAATGEVDLLPMPGPNANWTAGLSVHYSQDSSLIYWFNGTQAVQVPLGGPSGLGSGPQDSLSDHFTLSFWMKHGVTPNKGKKEEETIVCNTVQNEDGFSHYSLTVHGCRIAFLYWPLLESARPVKFLWKLEQVCDDEWHHYALNLEFPTVTLYTDGISFDPALIHDNGLIHPPRREPALMIGACWTEEKNKEKEKGDNSTDTTQGDPLSIHHYFHGYLAGFSVRSGRLESREVIECLYACREGLDYRDFESLGKGMKVHVNPSQSLLTLEGDDVETFNHALQHVAYMNTLRFATPGVRPLRLTTAVKCFSEESCVSIPEVEGYVVVLQPDAPQILLSGTAHFARPAVDFEGTNGVPLFPDLQITCSISHQVEAKKDESWQGTVTDTRMSDEIVHNLDGCEISLVGDDLDPERESLLLDTTSLQQRGLELTNTSAYLTIAGVESITVYEEILRQARYRLRHGAALYTRKFRLSCSEMNGRYSSNEFIVEVNVLHSMNRVAHPSHVLSSQQFLHRGHQPPPEMAGHSLASSHRNSMIPSAATLIIVVCVGFLVLMVVLGLVRIHSLHRRVSGAGGPPGASSDPKDPDLFWDDSALTIIVNPMESYQNRQSCVTGAVGGQQEDEDSSDSEVADSPSSDERRIIETPPHRY |
| 265 | sp|Q15038|DAZP2\_HUMAN | MNSKGQYPTQPTYPVQPPGNPVYPQTLHLPQAPPYTDAPPAYSELYRPSFVHPGAATVPTMSAAFPGASLYLPMAQSVAVGPLGSTIPMAYYPVGPIYPPGSTVLVEGGYDAGARFGAGATAGNIPPPPPGCPPNAAQLAVMQGANVLVTQRKGNFFMGGSDGGYTIW |
| 266 | sp|Q8R4X1|ACER1\_MOUSE | MHVPGTRAKMSSIFAYQSSEVDWCESNFQHSELVAEFYNTFSNVFFLIFGPLMMFLMHPYAQKRTRCFYGVSVLFMLIGLFSMYFHMTLSFLGQLLDEISILWLLASGYSVWLPRCYFPKFVKGNRFYFSCLVTITTIISTFLTFVKPTVNAYALNSIAIHILYIVRTEYKKIRDDDLRHLIAVSVVLWAAALTSWISDRVLCSFWQRIHFYYLHSIWHVLISITFPYGIVTMALVDAKYEMPDKTLKVHYWPRDSWVIGLPYVEIQENDKNC |
| 267 | sp|P31947|1433S\_HUMAN | MERASLIQKAKLAEQAERYEDMAAFMKGAVEKGEELSCEERNLLSVAYKNVVGGQRAAWRVLSSIEQKSNEEGSEEKGPEVREYREKVETELQGVCDTVLGLLDSHLIKEAGDAESRVFYLKMKGDYYRYLAEVATGDDKKRIIDSARSAYQEAMDISKKEMPPTNPIRLGLALNFSVFHYEIANSPEEAISLAKTTFDEAMADLHTLSEDSYKDSTLIMQLLRDNLTLWTADNAGEEGGEAPQEPQS |
| 268 | sp|Q79AF6|ACDH4\_PARXL | MTKKIKCALIGPGNIGTDLLAKLQRSPVLEPIWMVGIDPESDGLKRAREMGIKTTADGVDGLIPHMQADGVQIVFDATSAYVHADNSRKVNALGALMIDLTPAAIGPFCVPTVNLKEHVGKGEMNVNMVTCGGQATIPMVAAVSRVQPVAYGEIVATVSSKSAGPGTRKNIDEFTRTTAGAVEKVGGAKKGKAIIILNPAEPPLIMRDTVHCLLESEPDQAKITESIHAMIKEVQKYVPGYKLVNGPVFDGLRVSVYLEVEGLGDYLPKYAGNLDIMTAAAARTAEMFAEEILAGQLTLQPVHA |
| 269 | sp|Q13362|2A5G\_HUMAN | MLTCNKAGSRMVVDAANSNGPFQPVVLLHIRDVPPADQEKLFIQKLRQCCVLFDFVSDPLSDLKWKEVKRAALSEMVEYITHNRNVITEPIYPEVVHMFAVNMFRTLPPSSNPTGAEFDPEEDEPTLEAAWPHLQLVYEFFLRFLESPDFQPNIAKKYIDQKFVLQLLELFDSEDPRERDFLKTTLHRIYGKFLGLRAYIRKQINNIFYRFIYETEHHNGIAELLEILGSIINGFALPLKEEHKIFLLKVLLPLHKVKSLSVYHPQLAYCVVQFLEKDSTLTEPVVMALLKYWPKTHSPKEVMFLNELEEILDVIEPSEFVKIMEPLFRQLAKCVSSPHFQVAERALYYWNNEYIMSLISDNAAKILPIMFPSLYRNSKTHWNKTIHGLIYNALKLFMEMNQKLFDDCTQQFKAEKLKEKLKMKEREEAWVKIENLAKANPQYTVYSQASTMSIPVAMETDGPLFEDVQMLRKTVKDEAHQAQKDPKKDRPLARRKSELPQDPHTKKALEAHCRADELASQDGR |
| 270 | sp|P48193|41\_MOUSE | MTTEKSLAAEAENSQHQQQKEEGEGATNSGQQETQLEEASQAAAAEGSDQGEQKLKASNGDTPTHEDLTKNKERTSESRGLSRLLSSFLKRPKSQVSEEEGREVESEKEKGEGGQKEIELGNSLDEDIILKAPIAAPEPELKTDPSLDLHSLSSIETQPAQEEHREDPDSETKEGEGIEECSGTEVKEDPESRAEREPEASQKPVRRHRNMHCKVSLLDDTVYECVVEKHAKGQDLLKRVCEHLNLLEEDYFGLALWDSATSKTWLDSAKEIKKQVRGVPWNFTFNVKFYPPDPAQLTEDITRYYLCLQLRQDIVAGRLPCSFATLALLGSYTIQSELGDYDPELHGMDYVSDFKLAPNQTKELEEKVMELHKSYRSMTPAQADLEFLENAKKLSMYGVDLHKAKDLEGVDIILGVCSSGLLVYKDKLRINRFPWPKVLKISYKRSSFFIKIRPGEQEHYESTIGFKLPSYRAAKKLWKVCVEHHTFFRLTSTDTIPKSKFLALGSKFRYSGRTQAQTRQASALIDRPAPHFERTASKRASRSLDGAAAAESTDRSPRPTSAPAIAQSQVTEGPGAPIKKTPKEAVKVEEKRGEEPAEPAEPEPTEAWKVEKTHTEVTVPTSNGDQTQKLAGKGEDLIRMRKKKRERLDGENIYIRHSNLMLEDLDKSQEEIKKHHASISELKKNFMESVPEPRPSEWDKRLSTHSPFRTLNINGQVPTGDGPPLVKTQTVTISDTANAVKSEIPTKDVPIVHTETKTITYEAAQTEDSNGDLDPGVLLTAQTITSETTSSTTTTQITKTVKGGISETRIEKRIVITGDADIDHDQVLVQAIKEAKEQHPDMSVTKVVVHQETEISEE |
| 271 | sp|Q5U2X5|ACK1\_RAT | MQPEEGTGWLLELLSEVQLQQYFLRLRDDLNITRLSHFEYVKNEDLEKIGMGRPGQRRLWEAVKRRKAMCKRKSWMSKVFSGKRQEAEFPSHHSQSTFRKPSPTPGGLAGEGTLQSLTCLIGEKDLRLLEKLGDGSFGVVRRGEWDAPAGKTVSVAVKCLKPDVLSQPEAMDDFIREVNAMHSLDHRNLIRLYGVVLTPPMKMVTELAPLGSLLDRLRKHQGHFLLGTLSRYAVQVAEGMGYLESKRFIHRDLAARNLLLATRDLVKIGDFGLMRALPQNDGHYVMQEHRKVPFAWCAPESLKTRTFSHASDTWMFGVTLWEMFTYGQEPWIGLNGSQILHKIDKEGERLPRPEDCPQDIYNVMVQCWAHKPEDRPTFVALRDFLLEAQPTDMRALQDFEEPDKLHIQMNDVITVIEGRAENYWWRGQNTRTLCVGPFPRNVVTSVAGLSAQDISQPLQNSFIHTGHGDSDPRHCWGFPDRIDELYLGNPMDPPDLLSVELSTSRPTQHLGRMKKPTYDPVSEDPDPLSSDFKRLGLRKPALPRGLWLAKPSARVPGTKAGRSSGGEVTLIDFGEEPVAPTPRPCAPSLAQLAMDACSLLDKTPPQSPTRALPRPLHPTPVVDWDARPLPPPPAYDDVAQDEDDFEVCSINSTLVSAGLPTGPSQGETNYAFVPEQAQLPPALEDNLFLPPQGGGQPPSSAQTAEIFQALQQECMRQLQVPTGQLTPSPTPGGDDKPQVPPRVPIPPRPTRPRVGLSPAPLGEEEASRWPGPSSPPRVPPREPLSPQGSRTPSPLVPPGSSPLPHRLSSSPGKTMPTTQSFASDPKYATPQVIQAPGPRAGPCILPIVRDGRKVSSTHYYLLPERPPYLERYQRFLREAQSPEEPAALPVPPLLPPPSTPAPAAPTATVRPMPQAAPDPKANFSTNNSNPGAQPPSLRASARLPQRGCPGDGQEAARPADKVQMLQAMVHGVTTEECQAALRSHSWSIQRAAQYLKVEQLFGLGLRPRVECHKVLEMFDWNLEQAGCHLLGSCGPAHHKR |
| 272 | sp|Q0VC00|ABHD3\_BOVIN | MQRLAMDLRMLSRELSHYLEHQVRVGFFGSGVGFSLILGFSVAYACYYLSSIAKKPQLVTGGESFSRFLQDHCPVVTETYYPTVWCWESRGQTLLRPFITSKPLVQYRNELIKTADGGQISLDWFDNDNSKHYMDASTRPTVLLLPGLTGTSKESYILHMIHLSEELGYRYVVFNNRGVAGENLLTPRTYCCSNTEDLETVIHHVHSLYPSAPFLAAGVSMGGMLLLNYLGKIGPKTPLKAAATFSVGWNTFACSESLEKPLNWLLFNYYLTTCLQSSVNKHRHMFVKQIDVDHVMKAKSIREFDKRFTSVMFGYRTIDDYYTDASPNRRLKSVGIPVLCLNSVDDVFSPSHAIPIETAKQNPNVALVLTSYGGHIGFLEGIWPRQSTYMDRVFKQFVQAMIEHGHELSSM |
| 273 | sp|Q5YD48|A1CF\_MOUSE | MESNHKSGDGLSGTQKEAALRALVQRTGYSLVQENGQRKYGGPPPGWDSTPPERGCEIFIGKLPRDLFEDELIPLCEKIGKIYEMRLMMDFNGNNRGYAFVTFSNKQEAKNAIKQLNNYEIRTGRLLGVCASVDNCRLFVGGIPKTKKREEILSEMKKVTEGVVDVIVYPSAADKTKNRGFAFVEYESHRAAAMARRRLLPGRIQLWGHPIAVDWAEPEVEVDEDTMSSVKILYVRNLMLSTSEEMIEKEFNSIKPGAVERVKKIRDYAFVHFSNREDAVEAMKALNGKVLDGSPIEVTLAKPVDKDSYVRYTRGTGGRNTMLQGEYTYPLSHVYDPTTTYLGAPVFYTPQAYAAIPSLHFPATKGHLSNRALIRTPSVREIYMNVPVGAAGVRGLGGRGYLAYTGLGRGYHVKGDKREDKLYDLLPGMELTPMNTVSLKPQGIKLAPQILEEICQKNNWGQPVYQLHSAIGQDQRQLFLYKVTIPALASQNPAIHPFIPPKLSAYVDEAKRYAAEHTLQTLGIPTEGGDAGTTAPTATSATVFPGYAVPSATAPVSTAQLKQAVTLGQDLAAYTTYEVYPTFALTTRGDAYGTF |
| 274 | sp|O60239|3BP5\_HUMAN | MDAALKRSRSEEPAEILPPARDEEEEEEEGMEQGLEEEEEVDPRIQGELEKLNQSTDDINRRETELEDARQKFRSVLVEATVKLDELVKKIGKAVEDSKPYWEARRVARQAQLEAQKATQDFQRATEVLRAAKETISLAEQRLLEDDKRQFDSAWQEMLNHATQRVMEAEQTKTRSELVHKETAARYNAAMGRMRQLEKKLKRAINKSKPYFELKAKYYVQLEQLKKTVDDLQAKLTLAKGEYKMALKNLEMISDEIHERRRSSAMGPRGCGVGAEGSSTSVEDLPGSKPEPDAISVASEAFEDDSCSNFVSEDDSETQSVSSFSSGPTSPSEMPDQFPAVVRPGSLDLPSPVSLSEFGMMFPVLGPRSECSGASSPECEVERGDRAEGAENKTSDKANNNRGLSSSSGSGGSSKSQSSTSPEGQALENRMKQLSLQCSKGRDGIIADIKMVQIG |
| 275 | sp|P00519|ABL1\_HUMAN | MLEICLKLVGCKSKKGLSSSSSCYLEEALQRPVASDFEPQGLSEAARWNSKENLLAGPSENDPNLFVALYDFVASGDNTLSITKGEKLRVLGYNHNGEWCEAQTKNGQGWVPSNYITPVNSLEKHSWYHGPVSRNAAEYLLSSGINGSFLVRESESSPGQRSISLRYEGRVYHYRINTASDGKLYVSSESRFNTLAELVHHHSTVADGLITTLHYPAPKRNKPTVYGVSPNYDKWEMERTDITMKHKLGGGQYGEVYEGVWKKYSLTVAVKTLKEDTMEVEEFLKEAAVMKEIKHPNLVQLLGVCTREPPFYIITEFMTYGNLLDYLRECNRQEVNAVVLLYMATQISSAMEYLEKKNFIHRDLAARNCLVGENHLVKVADFGLSRLMTGDTYTAHAGAKFPIKWTAPESLAYNKFSIKSDVWAFGVLLWEIATYGMSPYPGIDLSQVYELLEKDYRMERPEGCPEKVYELMRACWQWNPSDRPSFAEIHQAFETMFQESSISDEVEKELGKQGVRGAVSTLLQAPELPTKTRTSRRAAEHRDTTDVPEMPHSKGQGESDPLDHEPAVSPLLPRKERGPPEGGLNEDERLLPKDKKTNLFSALIKKKKKTAPTPPKRSSSFREMDGQPERRGAGEEEGRDISNGALAFTPLDTADPAKSPKPSNGAGVPNGALRESGGSGFRSPHLWKKSSTLTSSRLATGEEEGGGSSSKRFLRSCSASCVPHGAKDTEWRSVTLPRDLQSTGRQFDSSTFGGHKSEKPALPRKRAGENRSDQVTRGTVTPPPRLVKKNEEAADEVFKDIMESSPGSSPPNLTPKPLRRQVTVAPASGLPHKEEAGKGSALGTPAAAEPVTPTSKAGSGAPGGTSKGPAEESRVRRHKHSSESPGRDKGKLSRLKPAPPPPPAASAGKAGGKPSQSPSQEAAGEAVLGAKTKATSLVDAVNSDAAKPSQPGEGLKKPVLPATPKPQSAKPSGTPISPAPVPSTLPSASSALAGDQPSSTAFIPLISTRVSLRKTRQPPERIASGAITKGVVLDSTEALCLAISRNSEQMASHSAVLEAGKNLYTFCVSYVDSIQQMRNKFAFREAINKLENNLRELQICPATAGSGPAATQDFSKLLSSVKEISDIVQR |
| 276 | sp|P33897|ABCD1\_HUMAN | MPVLSRPRPWRGNTLKRTAVLLALAAYGAHKVYPLVRQCLAPARGLQAPAGEPTQEASGVAAAKAGMNRVFLQRLLWLLRLLFPRVLCRETGLLALHSAALVSRTFLSVYVARLDGRLARCIVRKDPRAFGWQLLQWLLIALPATFVNSAIRYLEGQLALSFRSRLVAHAYRLYFSQQTYYRVSNMDGRLRNPDQSLTEDVVAFAASVAHLYSNLTKPLLDVAVTSYTLLRAARSRGAGTAWPSAIAGLVVFLTANVLRAFSPKFGELVAEEARRKGELRYMHSRVVANSEEIAFYGGHEVELALLQRSYQDLASQINLILLERLWYVMLEQFLMKYVWSASGLLMVAVPIITATGYSESDAEAVKKAALEKKEEELVSERTEAFTIARNLLTAAADAIERIMSSYKEVTELAGYTARVHEMFQVFEDVQRCHFKRPRELEDAQAGSGTIGRSGVRVEGPLKIRGQVVDVEQGIICENIPIVTPSGEVVVASLNIRVEEGMHLLITGPNGCGKSSLFRILGGLWPTYGGVLYKPPPQRMFYIPQRPYMSVGSLRDQVIYPDSVEDMQRKGYSEQDLEAILDVVHLHHILQREGGWEAMCDWKDVLSGGEKQRIGMARMFYHRPKYALLDECTSAVSIDVEGKIFQAAKDAGIALLSITHRPSLWKYHTHLLQFDGEGGWKFEKLDSAARLSLTEEKQRLEQQLAGIPKMQRRLQELCQILGEAVAPAHVPAPSPQGPGGLQGAST |
| 277 | sp|P37136|ACES\_RAT | MRPPWYPLHTPSLASPLLFLLLSLLGGGARAEGREDPQLLVRVRGGQLRGIRLKAPGGPVSAFLGIPFAEPPVGSRRFMPPEPKRPWSGILDATTFQNVCYQYVDTLYPGFEGTEMWNPNRELSEDCLYLNVWTPYPRPTSPTPVLIWIYGGGFYSGASSLDVYDGRFLAQVEGTVLVSMNYRVGTFGFLALPGSREAPGNVGLLDQRLALQWVQENIAAFGGDPMSVTLFGESAGAASVGMHILSLPSRSLFHRAVLQSGTPNGPWATVSAGEARRRATLLARLVGCPPGGAGGNDTELISCLRTRPAQDLVDHEWHVLPQESIFRFSFVPVVDGDFLSDTPDALINTGDFQDLQVLVGVVKDEGSYFLVYGVPGFSKDNESLISRAQFLAGVRIGVPQASDLAAEAVVLHYTDWLHPEDPAHLRDAMSAVVGDHNVVCPVAQLAGRLAAQGARVYAYIFEHRASTLTWPLWMGVPHGYEIEFIFGLPLDPSLNYTVEERIFAQRLMQYWTNFARTGDPNDPRDSKSPRWPPYTTAAQQYVSLNLKPLEVRRGLRAQTCAFWNRFLPKLLSATDTLDEAERQWKAEFHRWSSYMVHWKNQFDHYSKQERCSDL |
| 278 | sp|Q5RDH5|AAPK1\_PONAB | SWRKMATAEKQKHDGRVRIGHYILGDTLGVGTFGKVKVGKHELTGHKVAVKILNRQKIRSLDVVGKIRREIQNLKLFRHPHIIKLYQVISTPSDIFMVMEYVSGGELFDYICKNGRLDEKESRRLFQQILSGVDYCHRHMVVHRDLKPENVLLDAHMNAKIADFGLSNMMSDGEFLRTSCGSPNYAAPEVISGRLYAGPEVDIWSSGVILYALLCGTLPFDDDHVPTLFKKICDGIFYTPQYLNPSVISLLKHMLQVDPMKRATIKDIREHEWFKQDLPKYLFPEDPSYSSTMIDDEALKEVCEKFECSEEEVLSCLYNRNHQDPLAVAYHLIIDNRRIMNEAKDFYLATSPPDSFLDDHHLTRPHPERVPFLVAETPRARHTLDELNPQKSKHQGVRKAKWHLGIRSQSRPNDIMAEVCRAIKQLDYEWKVVNPYYLRVRRKNPVTSTYSKMSLQLYQVDSRTYLLDFRSIDDEITEAKSGTATPQRSGSVSNYRSCQRSDSDAEAQGKSSEVSLTSSVTSLDSSPVDLTPRPGSHTIEFFEMCANLIKILAQ |
| 279 | sp|P09972|ALDOC\_HUMAN | MPHSYPALSAEQKKELSDIALRIVAPGKGILAADESVGSMAKRLSQIGVENTEENRRLYRQVLFSADDRVKKCIGGVIFFHETLYQKDDNGVPFVRTIQDKGIVVGIKVDKGVVPLAGTDGETTTQGLDGLSERCAQYKKDGADFAKWRCVLKISERTPSALAILENANVLARYASICQQNGIVPIVEPEILPDGDHDLKRCQYVTEKVLAAVYKALSDHHVYLEGTLLKPNMVTPGHACPIKYTPEEIAMATVTALRRTVPPAVPGVTFLSGGQSEEEASFNLNAINRCPLPRPWALTFSYGRALQASALNAWRGQRDNAGAATEEFIKRAEVNGLAAQGKYEGSGEDGGAAAQSLYIANHAY |
| 280 | sp|P49902|5NTC\_HUMAN | MSTSWSDRLQNAADMPANMDKHALKKYRREAYHRVFVNRSLAMEKIKCFGFDMDYTLAVYKSPEYESLGFELTVERLVSIGYPQELLSFAYDSTFPTRGLVFDTLYGNLLKVDAYGNLLVCAHGFNFIRGPETREQYPNKFIQRDDTERFYILNTLFNLPETYLLACLVDFFTNCPRYTSCETGFKDGDLFMSYRSMFQDVRDAVDWVHYKGSLKEKTVENLEKYVVKDGKLPLLLSRMKEVGKVFLATNSDYKYTDKIMTYLFDFPHGPKPGSSHRPWQSYFDLILVDARKPLFFGEGTVLRQVDTKTGKLKIGTYTGPLQHGIVYSGGSSDTICDLLGAKGKDILYIGDHIFGDILKSKKRQGWRTFLVIPELAQELHVWTDKSSLFEELQSLDIFLAELYKHLDSSSNERPDISSIQRRIKKVTHDMDMCYGMMGSLFRSGSRQTLFASQVMRYADLYAASFINLLYYPFSYLFRAAHVLMPHESTVEHTHVDINEMESPLATRNRTSVDFKDTDYKRHQLTRSISEIKPPNLFPLAPQEITHCHDEDDDEEEEEEEE |
| 281 | sp|Q9NVV5|AIG1\_HUMAN | MALVPCQVLRMAILLSYCSILCNYKAIEMPSHQTYGGSWKFLTFIDLVIQAVFFGICVLTDLSSLLTRGSGNQEQERQLKKLISLRDWMLAVLAFPVGVFVVAVFWIIYAYDREMIYPKLLDNFIPGWLNHGMHTTVLPFILIEMRTSHHQYPSRSSGLTAICTFSVGYILWVCWVHHVTGMWVYPFLEHIGPGARIIFFGSTTILMNFLYLLGEVLNNYIWDTQKKPPSWQDMKIKFMYLGPSS |
| 282 | sp|Q9BZC7|ABCA2\_HUMAN | MGFLHQLQLLLWKNVTLKRRSPWVLAFEIFIPLVLFFILLGLRQKKPTISVKEAFYTAAPLTSAGILPVMQSLCPDGQRDEFGFLQYANSTVTQLLERLDRVVEEGNLFDPARPSLGSELEALRQHLEALSAGPGTSGSHLDRSTVSSFSLDSVARNPQELWRFLTQNLSLPNSTAQALLAARVDPPEVYHLLFGPSSALDSQSGLHKGQEPWSRLGGNPLFRMEELLLAPALLEQLTCTPGSGELGRILTVPESQKGALQGYRDAVCSGQAAARARRFSGLSAELRNQLDVAKVSQQLGLDAPNGSDSSPQAPPPRRLQALLGDLLDAQKVLQDVDVLSALALLLPQGACTGRTPGPPASGAGGAANGTGAGAVMGPNATAEEGAPSAAALATPDTLQGQCSAFVQLWAGLQPILCGNNRTIEPEALRRGNMSSLGFTSKEQRNLGLLVHLMTSNPKILYAPAGSEVDRVILKANETFAFVGNVTHYAQVWLNISAEIRSFLEQGRLQQHLRWLQQYVAELRLHPEALNLSLDELPPALRQDNFSLPSGMALLQQLDTIDNAACGWIQFMSKVSVDIFKGFPDEESIVNYTLNQAYQDNVTVFASVIFQTRKDGSLPPHVHYKIRQNSSFTEKTNEIRRAYWRPGPNTGGRFYFLYGFVWIQDMMERAIIDTFVGHDVVEPGSYVQMFPYPCYTRDDFLFVIEHMMPLCMVISWVYSVAMTIQHIVAEKEHRLKEVMKTMGLNNAVHWVAWFITGFVQLSISVTALTAILKYGQVLMHSHVVIIWLFLAVYAVATIMFCFLVSVLYSKAKLASACGGIIYFLSYVPYMYVAIREEVAHDKITAFEKCIASLMSTTAFGLGSKYFALYEVAGVGIQWHTFSQSPVEGDDFNLLLAVTMLMVDAVVYGILTWYIEAVHPGMYGLPRPWYFPLQKSYWLGSGRTEAWEWSWPWARTPRLSVMEEDQACAMESRRFEETRGMEEEPTHLPLVVCVDKLTKVYKDDKKLALNKLSLNLYENQVVSFLGHNGAGKTTTMSILTGLFPPTSGSATIYGHDIRTEMDEIRKNLGMCPQHNVLFDRLTVEEHLWFYSRLKSMAQEEIRREMDKMIEDLELSNKRHSLVQTLSGGMKRKLSVAIAFVGGSRAIILDEPTAGVDPYARRAIWDLILKYKPGRTILLSTHHMDEADLLGDRIAIISHGKLKCCGSPLFLKGTYGDGYRLTLVKRPAEPGGPQEPGLASSPPGRAPLSSCSELQVSQFIRKHVASCLLVSDTSTELSYILPSEAAKKGAFERLFQHLERSLDALHLSSFGLMDTTLEEVFLKVSEEDQSLENSEADVKESRKDVLPGAEGPASGEGHAGNLARCSELTQSQASLQSASSVGSARGDEGAGYTDVYGDYRPLFDNPQDPDNVSLQEVEAEALSRVGQGSRKLDGGWLKVRQFHGLLVKRFHCARRNSKALFSQILLPAFFVCVAMTVALSVPEIGDLPPLVLSPSQYHNYTQPRGNFIPYANEERREYRLRLSPDASPQQLVSTFRLPSGVGATCVLKSPANGSLGPTLNLSSGESRLLAARFFDSMCLESFTQGLPLSNFVPPPPSPAPSDSPASPDEDLQAWNVSLPPTAGPEMWTSAPSLPRLVREPVRCTCSAQGTGFSCPSSVGGHPPQMRVVTGDILTDITGHNVSEYLLFTSDRFRLHRYGAITFGNVLKSIPASFGTRAPPMVRKIAVRRAAQVFYNNKGYHSMPTYLNSLNNAILRANLPKSKGNPAAYGITVTNHPMNKTSASLSLDYLLQGTDVVIAIFIIVAMSFVPASFVVFLVAEKSTKAKHLQFVSGCNPIIYWLANYVWDMLNYLVPATCCVIILFVFDLPAYTSPTNFPAVLSLFLLYGWSITPIMYPASFWFEVPSSAYVFLIVINLFIGITATVATFLLQLFEHDKDLKVVNSYLKSCFLIFPNYNLGHGLMEMAYNEYINEYYAKIGQFDKMKSPFEWDIVTRGLVAMAVEGVVGFLLTIMCQYNFLRRPQRMPVSTKPVEDDVDVASERQRVLRGDADNDMVKIENLTKVYKSRKIGRILAVDRLCLGVRPGECFGLLGVNGAGKTSTFKMLTGDESTTGGEAFVNGHSVLKELLQVQQSLGYCPQCDALFDELTAREHLQLYTRLRGISWKDEARVVKWALEKLELTKYADKPAGTYSGGNKRKLSTAIALIGYPAFIFLDEPTTGMDPKARRFLWNLILDLIKTGRSVVLTSHSMEECEALCTRLAIMVNGRLRCLGSIQHLKNRFGDGYMITVRTKSSQSVKDVVRFFNRNFPEAMLKERHHTKVQYQLKSEHISLAQVFSKMEQVSGVLGIEDYSVSQTTLDNVFVNFAKKQSDNLEQQETEPPSALQSPLGCLLSLLRPRSAPTELRALVADEPEDLDTEDEGLISFEEERAQLSFNTDTLC |
| 283 | sp|Q7Z591|AKNA\_HUMAN | MASSETEIRWAEPGLGKGPQRRRWAWAEDKRDVDRSSSQSWEEERLFPNATSPELLEDFRLAQQHLPPLEWDPHPQPDGHQDSESGETSGEEAEAEDVDSPASSHEPLAWLPQQGRQLDMTEEEPDGTLGSLEVEEAGESSSRLGYEAGLSLEGHGNTSPMALGHGQARGWVASGEQASGDKLSEHSEVNPSVELSPARSWSSGTVSLDHPSDSLDSTWEGETDGPQPTALAETLPEGPSHHLLSPDGRTGGSVARATPMEFQDSSAPPAQSPQHATDRWRRETTRFFCPQPKEHIWKQTKTSPKPLPSRFIGSISPLNPQPRPTRQGRPLPRQGATLAGRSSSNAPKYGRGQLNYPLPDFSKVGPRVRFPKDESYRPPKSRSHNRKPQAPARPLIFKSPAEIVQEVLLSSGEAALAKDTPPAHPITRVPQEFQTPEQATELVHQLQEDYHRLLTKYAEAENTIDQLRLGAKVNLFSDPPQPNHSIHTGMVPQGTKVLSFTIPQPRSAEWWPGPAEDPQASAASGWPSARGDLSPSSLTSMPTLGWLPENRDISEDQSSAEQTQALASQASQFLAKVESFERLIQAGRLMPQDQVKGFQRLKAAHAALEEEYLKACREQHPAQPLAGSKGTPGRFDPRRELEAEIYRLGSCLEELKEHIDQTQQEPEPPGSDSALDSTPALPCLHQPTHLPAPSGQAPMPAIKTSCPEPATTTAAASTGPCPLHVNVEVSSGNSEVEDRPQDPLARLRHKELQMEQVYHGLMERYLSVKSLPEAMRMEEEEEGEEEEEEEGGGDSLEVDGVAATPGKAEATRVLPRQCPVQAEKSHGAPLEEATEKMVSMKPPGFQASLARDGHMSGLGKAEAAPPGPGVPPHPPGTKSAASHQSSMTSLEGSGISERLPQKPLHRGGGPHLEETWMASPETDSGFVGSETSRVSPLTQTPEHRLSHISTAGTLAQPFAASVPRDGASYPKARGSLIPRRATEPSTPRSQAQRYLSSPSGPLRQRAPNFSLERTLAAEMAVPGSEFEGHKRISEQPLPNKTISPPPAPAPAAAPLPCGPTETIPSFLLTRAGRDQAICELQEEVSRLRLRLEDSLHQPLQGSPTRPASAFDRPARTRGRPADSPATWGSHYGSKSTERLPGEPRGEEQIVPPGRQRARSSSVPREVLRLSLSSESELPSLPLFSEKSKTTKDSPQAARDGKRGVGSAGWPDRVTFRGQYTGHEYHVLSPKAVPKGNGTVSCPHCRPIRTQDAGGAVTGDPLGPPPADTLQCPLCGQVGSPPEADGPGSATSGAEKATTRRKASSTPSPKQRSKQAGSSPRPPPGLWYLATAPPAPAPPAFAYISSVPIMPYPPAAVYYAPAGPTSAQPAAKWPPTASPPPARRHRHSIQLDLGDLEELNKALSRAVQAAESVRSTTRQMRSSLSADLRQAHSLRGSCLF |
| 284 | sp|P04756|ACHA\_MOUSE | MELSTVLLLLGLCSAGLVLGSEHETRLVAKLFEDYSSVVRPVEDHREIVQVTVGLQLIQLINVDEVNQIVTTNVRLKQQWVDYNLKWNPDDYGGVKKIHIPSEKIWRPDVVLYNNADGDFAIVKFTKVLLDYTGHITWTPPAIFKSYCEIIVTHFPFDEQNCSMKLGTWTYDGSVVAINPESDQPDLSNFMESGEWVIKEARGWKHWVFYSCCPTTPYLDITYHFVMQRLPLYFIVNVIIPCLLFSFLTSLVFYLPTDSGEKMTLSISVLLSLTVFLLVIVELIPSTSSAVPLIGKYMLFTMVFVIASIIITVIVINTHHRSPSTHIMPEWVRKVFIDTIPNIMFFSTMKRPSRDKQEKRIFTEDIDISDISGKPGPPPMGFHSPLIKHPEVKSAIEGVKYIAETMKSDQESNNAAEEWKYVAMVMDHILLGVFMLVCLIGTLAVFAGRLIELHQQG |
| 285 | sp|Q4ZFU2|A1LB1\_LOXAR | VRATEKFAPIYFFCHPLQSAETDVAERANKRPIWIMGHMVNANYQIDEFVNLGANSIETDVSFDSSANPEYTYHGVPCDCRRWCKKWEYFNNFLKALRKATTPGDSKYHEKLVLVVFDLKTGSLYDNQAYDAGKKLAKNLLQHYWNNGNNGGRAYIVLSIPNLAHYKLITGFKETLKTEGHPELMEKVGYDFSGNDNIDQVANAYKKAGVTGHVWQSDGITNCVASFIRGLDRAKKAVKNRDSSNGYINKVYYWTVDKYATTREAFDIGVDGIMTNYPDVIANVLNESAYKGKFRLATYDDNPWETFKN |
| 286 | sp|Q80W57|ABCG2\_RAT | MSSSNDHVLVPMSQRNKNGLPGMSSRGARTLAEGDVLSFHHITYRVKVKSGFLVRKTAEKEILSDINGIMKPGLNAILGPTGGGKSSLLDVLAARKDPRGLSGDVLINGAPQPANFKCSSGYVVQDDVVMGTLTVRENLQFSAALRLPKAMKTHEKNERINTIIKELGLDKVADSKVGTQFTRGISGGERKRTSIGMELITDPSILFLDEPTTGLDSSTANAVLLLLKRMSKQGRTIIFSIHQPRYSIFKLFDSLTLLASGKLMFHGPAQKALEYFASAGYHCEPYNNPADFFLDVINGDSSAVMLNRGEQDHEANKTEEPSKREKPIIENLAEFYINSTIYGETKAELDQLPVAQKKKGSSAFREPVYVTSFCHQLRWIARRSFKNLLGNPQASVAQLIVTVILGLIIGALYFGLKNDPTGMQNRAGVFFFLTTNQCFTSVSAVELFVVEKKLFIHEYISGYYRVSSYFFGKLVSDLLPMRFLPSVIYTCILYFMLGLKRTVEAFFIMMFTLIMVAYTASSMALAIAAGQSVVSVATLLMTISFVFMMLFSGLLVNLRTIGPWLSWLQYFSIPRYGFTALQHNEFLGQEFCPGLNVTMNSTCVNSYTICTGNDYLINQGIDLSPWGLWRNHVALACMIIIFLTIAYLKLLFLKKYS |
| 287 | sp|P34552|ALXA\_CAEEL | MATFGFLSAPLKSTNEVDLVKPLTSYIDNVYNTSDNNRSDVAEAVQELNKLRSKACCQPLDKHQSALDVLTRYYDQLVAIENKIIISATQNPVVFKWKDAFDKGSLFSSRASLSLSDGSFERAAVLFNIGSLMSQIGAAQQFHTDDEIKVSAKLFQQSAGVFARLRDVVLGMVQQEPTPDLMPDTLAALSALMTAQAQEAIYIKGHKDKMKATSMVKISAQVAEFYSEAQKMMSKDIVRGLWDKDWSAIVSGKNLAYQALAQYHQSEVCGEARQIGEQLSRLAESLKLFDTAQKYLPRDITGIWDIYPSVSKAHAAAKKDNDFIYHEKVSDFRTLPTLPKAVLAKPTPMQTPMTPSFRDMFAVLVPVQVHNAMQSYDARKAELVNMETVRMREATQLMNGVLASLNLPAALDDVTSTETLPESLKLKSAKLKQNGGSSEIMRLFSELPTLYQRNEDILTETSRILNEEKESDDTMRKQLGTKWTRMSSEQLTGPLVTEIGKYRGILHTASNADKMVKEKFESHRQGIELLSKNESELRSSIPGQTAHATGETDTVRQLRQFMSQWNEVTTDRELLEKELKNTNCDIANDFLKAMAENQLINEEHISKEKIAQIFGDLKRRVQSSLDTQETLMNQIQAANNTFTGEKTGSSTGAERERILKMLAQASDAYVELKANLEEGTKFYNDLTPILVRLQQKVSDFAFARQTEKEDLMRQLQLSIVSGQAAKAVVDGVNSLVSSYLTGGTNAAQSPANAPPRPPPPRPAAPSVESPIPPPRTQQSMQATPGAPPQYNPYQQQQQPQMQQFQQHPGYYQQPMPYGQPQPMFQPQYQPTFAAPYPTFPGAFPSYQQQWPQQQQQGGFPPNPQFGQQNQQQGGGGGANPFQ |
| 288 | sp|Q9Y2J4|AMOL2\_HUMAN | MRTLEDSSGTVLHRLIQEQLRYGNLTETRTLLAIQQQALRGGAGTGGTGSPQASLEILAPEDSQVLQQATRQEPQGQEHQGGENHLAENTLYRLCPQPSKGEELPTYEEAKAHSQYYAAQQAGTRPHAGDRDPRGAPGGSRRQDEALRELRHGHVRSLSERLLQLSLERNGARAPSHMSSSHSFPQLARNQQGPPLRGPPAEGPESRGPPPQYPHVVLAHETTTAVTDPRYRARGSPHFQHAEVRILQAQVPPVFLQQQQQYQYLQQSQEHPPPPHPAALGHGPLSSLSPPAVEGPVSAQASSATSGSAHLAQMEAVLRENARLQRDNERLQRELESSAEKAGRIEKLESEIQRLSEAHESLTRASSKREALEKTMRNKMDSEMRRLQDFNRDLRERLESANRRLASKTQEAQAGSQDMVAKLLAQSYEQQQEQEKLEREMALLRGAIEDQRRRAELLEQALGNAQGRAARAEEELRKKQAYVEKVERLQQALGQLQAACEKREQLELRLRTRLEQELKALRAQQRQAGAPGGSSGSGGSPELSALRLSEQLREKEEQILALEADMTKWEQKYLEERAMRQFAMDAAATAAAQRDTTLIRHSPQPSPSSSFNEGLLTGGHRHQEMESRLKVLHAQILEKDAVIKVLQQRSRRDPGKAIQGSLRPAKSVPSVFAAAAAGTQGWQGLSSSERQTADAPARLTTDRAPTEEPVVTAPPAAHAKHGSRDGSTQTEGPPDSTSTCLPPEPDSLLGCSSSQRAASLDSVATSRVQDLSDMVEILI |
| 289 | sp|Q9UKB5|AJAP1\_HUMAN | MWIQQLLGLSSMSIRWPGRPLGSHAWILIAMFQLAVDLPACEALGPGPEFWLLPRSPPRPPRLWSFRSGQPARVPAPVWSPRPPRVERIHGQMQMPRARRAHRPRDQAAALVPKAGLAKPPAAAKSSPSLASSSSSSSSAVAGGAPEQQALLRRGKRHLQGDGLSSFDSRGSRPTTETEFIAWGPTGDEEALESNTFPGVYGPTTVSILQTRKTTVAATTTTTTTATPMTLQTKGFTESLDPRRRIPGGVSTTEPSTSPSNNGEVTQPPRILGEASGLAVHQIITITVSLIMVIAALITTLVLKNCCAQSGNTRRNSHQRKTNQQEESCQNLTDFPSARVPSSLDIFTAYNETLQCSHECVRASVPVYTDETLHSTTGEYKSTFNGNRPSSSDRHLIPVAFVSEKWFEISC |
| 290 | sp|Q9SF85|ADK1\_ARATH | MASSDFDGILLGMGNPLLDVSAVVDQQFLDKYDIKLNNAILAEDKHLPMYDEMSQKFNVEYIAGGATQNSIKVAQWMLQVPGATSYMGSIGKDKYGEAMKKDATAAGVYVHYYEDEATPTGTCGVCVLGGERSLIANLSAANCYKVEHLKKPENWALVEKAKFYYIAGFFLTVSPESIQLVREHAAANNKVFTMNLSAPFICEFFKDVQEKCLPYMDYIFGNETEARTFSRVHGWETDDVEQIAIKMSQLPKASGTYKRTTVITQGADPVVVAEDGKVKKYPVIPLPKEKLVDTNGAGDAFVGGFLSQLVHGKGIEECVRAGCYASNVVIQRSGCTYPEKPDFN |
| 291 | sp|P08319|ADH4\_HUMAN | MGTKGKVIKCKAAIAWEAGKPLCIEEVEVAPPKAHEVRIQIIATSLCHTDATVIDSKFEGLAFPVIVGHEAAGIVESIGPGVTNVKPGDKVIPLYAPLCRKCKFCLSPLTNLCGKISNLKSPASDQQLMEDKTSRFTCKGKPVYHFFGTSTFSQYTVVSDINLAKIDDDANLERVCLLGCGFSTGYGAAINNAKVTPGSTCAVFGLGGVGLSAVMGCKAAGASRIIGIDINSEKFVKAKALGATDCLNPRDLHKPIQEVIIELTKGGVDFALDCAGGSETMKAALDCTTAGWGSCTFIGVAAGSKGLTIFPEELIIGRTINGTFFGGWKSVDSIPKLVTDYKNKKFNLDALVTHTLPFDKISEAFDLMNQGKSVRTILIF |
| 292 | sp|Q38838|AGL14\_ARATH | MVRGKTEMKRIENATSRQVTFSKRRNGLLKKAFELSVLCDAEVALIIFSPRGKLYEFSSSSSIPKTVERYQKRIQDLGSNHKRNDNSQQSKDETYGLARKIEHLEISTRKMMGEGLDASSIEELQQLENQLDRSLMKIRAKKYQLLREETEKLKEKERNLIAENKMLMEKCEMQGRGIIGRISSSSSTSELDIDDNEMEVVTDLFIGPPETRHFKKFPPSN |
| 293 | sp|Q68CK6|ACS2B\_HUMAN | MHWLRKVQGLCTLWGTQMSSRTLYINSRQLVSLQWGHQEVPAKFNFASDVLDHWADMEKAGKRLPSPALWWVNGKGKELMWNFRELSENSQQAANILSGACGLQRGDRVAVMLPRVPEWWLVILGCIRAGLIFMPGTIQMKSTDILYRLQMSKAKAIVAGDEVIQEVDTVASECPSLRIKLLVSEKSCDGWLNFKKLLNEASTTHHCVETGSQEASAIYFTSGTSGLPKMAEHSYSSLGLKAKMDAGWTGLQASDIMWTISDTGWILNILGSLLESWTLGACTFVHLLPKFDPLVILKTLSSYPIKSMMGAPIVYRMLLQQDLSSYKFPHLQNCLAGGESLLPETLENWRAQTGLDIREFYGQTETGLTCMVSKTMKIKPGYMGTAASCYDVQVIDDKGNVLPPGTEGDIGIRVKPIRPIGIFSGYVENPDKTAANIRGDFWLLGDRGIKDEDGYFQFMGRADDIINSSGYRIGPSEVENALMKHPAVVETAVISSPDPVRGEVVKAFVILASQFLSHDPEQLTKELQQHVKSVTAPYKYPRKIEFVLNLPKTVTGKIQRTKLRDKEWKMSGKARAQ |
| 294 | sp|Q9BYV1|AGT2\_HUMAN | MTLIWRHLLRPLCLVTSAPRILEMHPFLSLGTSRTSVTKLSLHTKPRMPPCDFMPERYQSLGYNRVLEIHKEHLSPVVTAYFQKPLLLHQGHMEWLFDAEGSRYLDFFSGIVTVSVGHCHPKVNAVAQKQLGRLWHTSTVFFHPPMHEYAEKLAALLPEPLKVIFLVNSGSEANELAMLMARAHSNNIDIISFRGAYHGCSPYTLGLTNVGTYKMELPGGTGCQPTMCPDVFRGPWGGSHCRDSPVQTIRKCSCAPDCCQAKDQYIEQFKDTLSTSVAKSIAGFFAEPIQGVNGVVQYPKGFLKEAFELVRARGGVCIADEVQTGFGRLGSHFWGFQTHDVLPDIVTMAKGIGNGFPMAAVITTPEIAKSLAKCLQHFNTFGGNPMACAIGSAVLEVIKEENLQENSQEVGTYMLLKFAKLRDEFEIVGDVRGKGLMIGIEMVQDKISCRPLPREEVNQIHEDCKHMGLLVGRGSIFSQTFRIAPSMCITKPEVDFAVEVFRSALTQHMERRAK |
| 295 | sp|Q8TCU4|ALMS1\_HUMAN | MEPEDLPWPGELEEEEEEEEEEEEEEEEAAAAAAANVDDVVVVEEVEEEAGRELDSDSHYGPQHLESIDDEEDEEAKAWLQAHPGRILPPLSPPQHRYSEGERTSLEKIVPLTCHVWQQIVYQGNSRTQISDTNVVCLETTAQRGSGDDQKTESWHCLPQEMDSSQTLDTSQTRFNVRTEDTEVTDFPSLEEGILTQSENQVKEPNRDLFCSPLLVIQDSFASPDLPLLTCLTQDQEFAPDSLFHQSELSFAPLRGIPDKSEDTEWSSRPSEVSEALFQATAEVASDLASSRFSVSQHPLIGSTAVGSQCPFLPSEQGNNEETISSVDELKIPKDCDRYDDLCSYMSWKTRKDTQWPENNLADKDQVSVATSFDITDENIATKRSDHFDAARSYGQYWTQEDSSKQAETYLTKGLQGKVESDVITLDGLNENAVVCSERVAELQRKPTRESEYHSSDLRMLRMSPDTVPKAPKHLKAGDTSKGGIAKVTQSNLKSGITTTPVDSDIGSHLSLSLEDLSQLAVSSPLETTTGQHTDTLNQKTLADTHLTEETLKVTAIPEPADQKTATPTVLSSSHSHRGKPSIFYQQGLPDSHLTEEALKVSAAPGLADQTTGMSTLTSTSYSHREKPGTFYQQELPESNLTEEPLEVSAAPGPVEQKTGIPTVSSTSHSHVEDLLFFYRQTLPDGHLTDQALKVSAVSGPADQKTGTATVLSTPHSHREKPGIFYQQEFADSHQTEETLTKVSATPGPADQKTEIPAVQSSSYSQREKPSILYPQDLADSHLPEEGLKVSAVAGPADQKTGLPTVPSSAYSHREKLLVFYQQALLDSHLPEEALKVSAVSGPADGKTGTPAVTSTSSASSSLGEKPSAFYQQTLPNSHLTEEALKVSIVPGPGDQKTGIPSAPSSFYSHREKPIIFSQQTLPDFLFPEEALKVSAVSVLAAQKTGTPTVSSNSHSHSEKSSVFYQQELPDSDLPRESLKMSAIPGLTDQKTVPTPTVPSGSFSHREKPSIFYQQEWPDSYATEKALKVSTGPGPADQKTEIPAVQSSSYPQREKPSVLYPQVLSDSHLPEESLKVSAFPGPADQMTDTPAVPSTFYSQREKPGIFYQQTLPESHLPKEALKISVAPGLADQKTGTPTVTSTSYSQHREKPSIFHQQALPGTHIPEEAQKVSAVTGPGNQKTWIPRVLSTFYSQREKPGIFYQQTLPGSHIPEEAQKVSPVLGPADQKTGTPTPTSASYSHTEKPGIFYQQVLPDNHPTEEALKISVASEPVDQTTGTPAVTSTSYSQYREKPSIFYQQSLPSSHLTEEAKNVSAVPGPADQKTVIPILPSTFYSHTEKPGVFYQQVLPHSHPTEEALKISVASEPVDQTTGTPTVTSTSYSQHTEKPSIFYQQSLPGSHLTEEAKNVSAVPGPGDRKTGIPTLPSTFYSHTEKPGSFYQQVLPHSHLPEEALEVSVAPGPVDQTIGTPTVTSPSSSFGEKPIVIYKQAFPEGHLPEESLKVSVAPGPVGQTTGAPTITSPSYSQHRAKSGSFYQLALLGSQIPEEALRVSSAPGPADQTTGIPTITSTSYSFGEKPIVNYKQAFPDGHLPEEALKVSIVSGPTEKKTDIPAGPLGSSALGEKPITFYRQALLDSPLNKEVVKVSAAPGPADQKTETLPVHSTSYSNRGKPVIFYQQTLSDSHLPEEALKVPPVPGPDAQKTETPSVSSSLYSYREKPIVFYQQALPDSELTQEALKVSAVPQPADQKTGLSTVTSSFYSHTEKPNISYQQELPDSHLTEEALKVSNVPGPADQKTGVSTVTSTSYSHREKPIVSYQRELPHFTEAGLKILRVPGPADQKTGINILPSNSYPQREHSVISYEQELPDLTEVTLKAIGVPGPADQKTGIQIASSSSYSNREKASIFHQQELPDVTEEALNVFVVPGQGDRKTEIPTVPLSYYSRREKPSVISQQELPDSHLTEEALKVSPVSIPAEQKTGIPIGLSSSYSHSHKEKLKISTVHIPDDQKTEFPAATLSSYSQIEKPKISTVIGPNDQKTPSQTAFHSSYSQTVKPNILFQQQLPDRDQSKGILKISAVPELTDVNTGKPVSLSSSYFHREKSNIFSPQELPGSHVTEDVLKVSTIPGPAGQKTVLPTALPSSFSHREKPDIFYQKDLPDRHLTEDALKISSALGQADQITGLQTVPSGTYSHGENHKLVSEHVQRLIDNLNSSDSSVSSNNVLLNSQADDRVVINKPESAGFRDVGSEEIQDAENSAKTLKEIRTLLMEAENMALKRCNFPAPLARFRDISDISFIQSKKVVCFKEPSSTGVSNGDLLHRQPFTEESPSSRCIQKDIGTQTNLKCRRGIENWEFISSTTVRSPLQEAESKVSMALEETLRQYQAAKSVMRSEPEGCSGTIGNKIIIPMMTVIKSDSSSDASDGNGSCSWDSNLPESLESVSDVLLNFFPYVSPKTSITDSREEEGVSESEDGGGSSVDSLAAHVKNLLQCESSLNHAKEILRNAEEEESRVRAHAWNMKFNLAHDCGYSISELNEDDRRKVEEIKAELFGHGRTTDLSKGLQSPRGMGCKPEAVCSHIIIESHEKGCFRTLTSEHPQLDRHPCAFRSAGPSEMTRGRQNPSSCRAKHVNLSASLDQNNSHFKVWNSLQLKSHSPFQNFIPDEFKISKGLRMPFDEKMDPWLSELVEPAFVPPKEVDFHSSSQMPSPEPMKKFTTSITFSSHRHSKCISNSSVVKVGVTEGSQCTGASVGVFNSHFTEEQNPPRDLKQKTSSPSSFKMHSNSQDKEVTILAEGRRQSQKLPVDFERSFQEEKPLERSDFTGSHSEPSTRANCSNFKEIQISDNHTLISMGRPSSTLGVNRSSSRLGVKEKNVTITPDLPSCIFLEQRELFEQSKAPRADDHVRKHHSPSPQHQDYVAPDLPSCIFLEQRELFEQCKAPYVDHQMRENHSPLPQGQDSIASDLPSPISLEQCQSKAPGVDDQMNKHHFPLPQGQDCVVEKNNQHKPKSHISNINVEAKFNTVVSQSAPNHCTLAASASTPPSNRKALSCVHITLCPKTSSKLDSGTLDERFHSLDAASKARMNSEFNFDLHTVSSRSLEPTSKLLTSKPVAQDQESLGFLGPKSSLDFQVVQPSLPDSNTITQDLKTIPSQNSQIVTSRQIQVNISDFEGHSNPEGTPVFADRLPEKMKTPLSAFSEKLSSDAVTQITTESPEKTLFSSEIFINAEDRGHEIIEPGNQKLRKAPVKFASSSSVQQVTFSRGTDGQPLLLPYKPSGSTKMYYVPQLRQIPPSPDSKSDTTVESSHSGSNDAIAPDFPAQVLGTRDDDLSATVNIKHKEGIYSKRVVTKASLPVGEKPLQNENADASVQVLITGDENLSDKKQQEIHSTRAVTEAAQAKEKESLQKDTADSSAAAAAEHSAQVGDPEMKNLPDTKAITQKEEIHRKKTVPEEAWPNNKESLQINIEESECHSEFENTTRSVFRSAKFYIHHPVHLPSDQDICHESLGKSVFMRHSWKDFFQHHPDKHREHMCLPLPYQNMDKTKTDYTRIKSLSINVNLGNKEVMDTTKSQVRDYPKHNGQISDPQRDQKVTPEQTTQHTVSLNELWNKYRERQRQQRQPELGDRKELSLVDRLDRLAKILQNPITHSLQVSESTHDDSRGERSVKEWSGRQQQRNKLQKKKRFKSLEKSHKNTGELKKSKVLSHHRAGRSNQIKIEQIKFDKYILSKQPGFNYISNTSSDCRPSEESELLTDTTTNILSGTTSTVESDILTQTDREVALHERSSSVSTIDTARLIQAFGHERVCLSPRRIKLYSSITNQQRRYLEKRSKHSKKVLNTGHPLVTSEHTRRRHIQVANHVISSDSISSSASSFLSSNSTFCNKQNVHMLNKGIQAGNLEIVNGAKKHTRDVGITFPTPSSSEAKLEENSDVTSWSEEKREEKMLFTGYPEDRKLKKNKKNSHEGVSWFVPVENVESRSKKENVPNTCGPGISWFEPITKTRPWREPLREQNCQGQHLDGRGYLAGPGREAGRDLLRPFVRATLQESLQFHRPDFISRSGERIKRLKLIVQERKLQSMLQTERDALFNIDRERQGHQNRMCPLPKRVFLAIQKNKPISKKEMIQRSKRIYEQLPEVQKKREEEKRKSEYKSYRLRAQLYKKRVTNQLLGRKVPWD |
| 296 | sp|Q01433|AMPD2\_HUMAN | MRNRGQGLFRLRSRCFLHQSLPLGAGRRKGLDVAEPGPSRCRSDSPAVAAVVPAMASYPSGSGKPKAKYPFKKRASLQASTAAPEARGGLGAPPLQSARSLPGPAPCLKHFPLDLRTSMDGKCKEIAEELFTRSLAESELRSAPYEFPEESPIEQLEERRQRLERQISQDVKLEPDILLRAKQDFLKTDSDSDLQLYKEQGEGQGDRSLRERDVLEREFQRVTISGEEKCGVPFTDLLDAAKSVVRALFIREKYMALSLQSFCPTTRRYLQQLAEKPLETRTYEQGPDTPVSADAPVHPPALEQHPYEHCEPSTMPGDLGLGLRMVRGVVHVYTRREPDEHCSEVELPYPDLQEFVADVNVLMALIINGPIKSFCYRRLQYLSSKFQMHVLLNEMKELAAQKKVPHRDFYNIRKVDTHIHASSCMNQKHLLRFIKRAMKRHLEEIVHVEQGREQTLREVFESMNLTAYDLSVDTLDVHADRNTFHRFDKFNAKYNPIGESVLREIFIKTDNRVSGKYFAHIIKEVMSDLEESKYQNAELRLSIYGRSRDEWDKLARWAVMHRVHSPNVRWLVQVPRLFDVYRTKGQLANFQEMLENIFLPLFEATVHPASHPELHLFLEHVDGFDSVDDESKPENHVFNLESPLPEAWVEEDNPPYAYYLYYTFANMAMLNHLRRQRGFHTFVLRPHCGEAGPIHHLVSAFMLAENISHGLLLRKAPVLQYLYYLAQIGIAMSPLSNNSLFLSYHRNPLPEYLSRGLMVSLSTDDPLQFHFTKEPLMEEYSIATQVWKLSSCDMCELARNSVLMSGFSHKVKSHWLGPNYTKEGPEGNDIRRTNVPDIRVGYRYETLCQELALITQAVQSEMLETIPEEAGITMSPGPQ |
| 297 | sp|Q92624|APBP2\_HUMAN | MAAVELEWIPETLYNTAISAVVDNYIRSRRDIRSLPENIQFDVYYKLYQQGRLCQLGSEFCELEVFAKVLRALDKRHLLHHCFQALMDHGVKVASVLAYSFSRRCSYIAESDAAVKEKAIQVGFVLGGFLSDAGWYSDAEKVFLSCLQLCTLHDEMLHWFRAVECCVRLLHVRNGNCKYHLGEETFKLAQTYMDKLSKHGQQANKAALYGELCALLFAKSHYDEAYKWCIEAMKEITAGLPVKVVVDVLRQASKACVVKREFKKAEQLIKHAVYLARDHFGSKHPKYSDTLLDYGFYLLNVDNICQSVAIYQAALDIRQSVFGGKNIHVATAHEDLAYSSYVHQYSSGKFDNALFHAERAIGIITHILPEDHLLLASSKRVKALILEEIAIDCHNKETEQRLLQEAHDLHLSSLQLAKKAFGEFNVQTAKHYGNLGRLYQSMRKFKEAEEMHIKAIQIKEQLLGQEDYEVALSVGHLASLYNYDMNQYENAEKLYLRSIAIGKKLFGEGYSGLEYDYRGLIKLYNSIGNYEKVFEYHNVLSNWNRLRDRQYSVTDALEDVSTSPQSTEEVVQSFLISQNVEGPSC |
| 298 | sp|P46933|APBB1\_RAT | MSVPSSLSQSAINANSHGGPALSFPFPLHAAHNQLLNAKLQATAVVPKDLRSAMGEGSVPEPGPANAKWLKEGQNQLRRAATAHRDQNRNVTLTLAEEASQEAETAPLGPKGLMHLYSELELSAHNAANRGLHGSALIINTQGLGPDEGEEKAAGEVEEEDEDEEEEDEEEEDLSSPQGLPEPLENVEVPSGPQVLTDGPREHSKSASLLFGMRNSAASDEDSSWATLSQGSPSYGSPEDTDSFWNPNAFETDSDLPAGWMRVQDTSGTYYWHIPTGTTQWEPPGRASPSQGNSPQEESQLTWTGFAHQEGFEEGEFWKDEPSEEAPMELGLKDPEEGTLPFSAQSLSPEPVPQEEENLPQRNANPGIKCFAVRSLGWVEMTEEELAPGRSSVAVNNCIRQLSYHKNNLHDPMSGGWGEGKDLLLQLEDETLKLVEPQNQTLLHAQPIVSIRVWGVGRDSGRERDFAYVARDKLTQMLKCHVFRCEAPAKNIATSLHEICSKIMSERRNARCLVNGLSLDHSKLVDVPFQVEFPAPKNELVQKFQVYYLGNVPVAKPVGVDVINGALESVLSSSSREQWTPSHVSVAPATLTILHQQTEAVLGECRVRFLSFLAVGRDVHTFAFIMAAGPASFCCHMFWCEPNAASLSEAVQAACMLRYQKCLDARSQTSTSCLPAPPAESVARRVGWTVRRGVQSLWGSLKPKRLGSQTP |
| 299 | sp|F4JNY0|APE2\_ARATH | MKIVTYNVNGLRQRVSQFDSLLKLLDSFDADIICFQETKLRRQELTADLAIADGYESFFSCTRTSEKGRTGYSGVATFCRVKSASSSCETALPVTAEEGITGLVNSNSRGGKSETSTVAEGLEEYEKEELLMIDQEGRCVITDHGHFVVFNVYGPRAVADDADRIEFKHRFYGVLERRWECLLRQGRRVFVVGDLNIAPFAMDRCEAGPDFEKNEFRKWFRSLLVERGGSFSDVFRSKHPERKDAFTCWSSSSGAEQFNYGSRIDHILVAGSCLHQDEDKQGHSFLACHVKECDILTEYKRFKNENMPTRWKGGLVTKFKGSDHVPVFISFDDLPDIPEHSTPPLASRYLPMIYGFQQTLVSVFKKRRANEEAKAIEVSCSSSTQSNTSSICGDISTGPLRNCGSMGISLEKSCSFENKSTSGVTEAETVAATGSIDNLSDGIRASSVRALNISRDGDRKKARKIQSSQLSLKSFFTTNSKVNNVEDSSSSYVSSSPSSQVESITEPNVSGKEDSEPTTSTQEQDQTGSSAKQKNDAALMEWQRIQNLMQNSIPLCKGHKEACVARVVKKPGPTFGRRFYVCSRAEKQTVVISNGLHQNSETSKRVMRSK |
| 300 | sp|O15084|ANR28\_HUMAN | MAFLKLRDQPSLVQAIFNGDPDEVRALIFKKEDVNFQDNEKRTPLHAAAYLGDAEIIELLILSGARVNAKDSKWLTPLHRAVASCSEEAVQVLLKHSADVNARDKNWQTPLHIAAANKAVKCAEALVPLLSNVNVSDRAGRTALHHAAFSGHGEMVKLLLSRGANINAFDKKDRRAIHWAAYMGHIEVVKLLVSHGAEVTCKDKKSYTPLHAAASSGMISVVKYLLDLGVDMNEPNAYGNTPLHVACYNGQDVVVNELIDCGAIVNQKNEKGFTPLHFAAASTHGALCLELLVGNGADVNMKSKDGKTPLHMTALHGRFSRSQTIIQSGAVIDCEDKNGNTPLHIAARYGHELLINTLITSGADTAKRGIHGMFPLHLAALSGFSDCCRKLLSSGFDIDTPDDFGRTCLHAAAAGGNLECLNLLLNTGADFNKKDKFGRSPLHYAAANCNYQCLFALVGSGASVNDLDERGCTPLHYAATSDTDGKCLEYLLRNDANPGIRDKQGYNAVHYSAAYGHRLCLQLIASETPLDVLMETSGTDMLSDSDNRATISPLHLAAYHGHHQALEVLVQSLLDLDVRNSSGRTPLDLAAFKGHVECVDVLINQGASILVKDYILKRTPIHAAATNGHSECLRLLIGNAEPQNAVDIQDGNGQTPLMLSVLNGHTDCVYSLLNKGANVDAKDKWGRTALHRGAVTGHEECVDALLQHGAKCLLRDSRGRTPIHLSAACGHIGVLGALLQSAASMDANPATADNHGYTALHWACYNGHETCVELLLEQEVFQKTEGNAFSPLHCAVINDNEGAAEMLIDTLGASIVNATDSKGRTPLHAAAFTDHVECLQLLLSHNAQVNSVDSTGKTPLMMAAENGQTNTVEMLVSSASAELTLQDNSKNTALHLACSKGHETSALLILEKITDRNLINATNAALQTPLHVAARNGLTMVVQELLGKGASVLAVDENGYTPALACAPNKDVADCLALILATMMPVSSSSPLSSLTFNAINRYTNTSKTVSFEALPIMRNEPSSYCSFNNIGGEQEYLYTDVDELNDSDSETY |
| 301 | sp|P52303|AP1B1\_RAT | MTDSKYFTTTKKGEIFELKAELNSDKKEKKKEAVKKVIASMTVGKDVSALFPDVVNCMQTDNLELKKLVYLYLMNYAKSQPDMAIMAVNTFVKDCEDPNPLIRALAVRTMGCIRVDKITEYLCEPLRKCLKDEDPYVRKTAAVCVAKLHDINAQLVEDQGFLDTLKDLISDSNPMVVANRVAALSEIAESHPSSNLLDLKAQSINKLLTALNECTEWAQIFILDCLGNYMPKDDREAQSICERVTPRLSHANSAVVLSAVKVLMKFMEMLSKDLDYYATLLKKLAPPLVTLLSAEPEPQYVPLRNINLIVQKRPEILKHEMKVFFVKYNDPIYVKLEKLDIMIRLASQANIAQVLAELKEYATEVDVDFVRKAVRAIGRCAIKVEQSAERCVSTLLDLIQTKVNYVVQEAIVVIKDIFRKYPNKYESVIATLCENLDSLDEPEARAAMIWIVGEYAERIDNADELLESFLDGFHDESTQVQLQLLTAIVKLFLKKPTETQELVQQVLSLATQDSDNPDLRDRGYIYWRLLSTDPVAAKEVVLAEKPLISEETDLIEPTLLDELICYIGTLASVYHKPPNAFVEGGRGVVHKSLPPRTASSESTESPEAAPAGAPASDQPDVIPAQGDLLGDLLNLDLGPPVSGPPLAASSVQMGAVDLLGGGLDSLMGDEPEGIGDSNFGAPPASVAAAAPARLGAPVSSGLSDLFDLTSGVGTLSGSYVAPKAVWLPAMKAKGLEISGTFTRQVGSISMDLQLTNKALQVMTDFAIQFNRNSFGLAPAAPLQVHAPLSPNQTVEISLPLNTVGSVMKMEPLNNLQVAVKNNIDVFYFSTLYPLHVLFVEDGKMDRQMFLATWKDIPNENEAQFQIRDCPLNTEAASSKLQSSNIFTVAKRTVEGQDMLYQSLKLTNGIWVLAELRIQPGNPSFTLSLKCRAPEVSQHDIQAYETILKN |
| 302 | sp|Q9GJU3|APOE\_PANTR | MKVLWAALLVTFLAGCQAKVEQVVETEPEPELHQQAEWQSGQRWELALGHFWDYLRWVQTLSEQVQEELLSSQVTQELTALMDETMKELKAYKSELEEQLTPVAEETRARLSKELQAAQARLGADMEDVRGRLVQYRGEVQAMLGQSTEELRARLASHLRKLRKRLLRDADDLQKRLAVYQAGAREGAERGVSAIRERLGPLVEQGRVRAATVGSLAGQPLQERAQAWGERLRARMEEMGSRTRDRLDEVKEQVAEVRAKLEEQAQQIRLQAEAFQARLKSWFEPLVEDMQRQWAGLVEKVQAAMGTSAAPVPSDNH |
| 303 | sp|Q02219|ANIA\_NEIGO | MKRQALAAMIASLFALAACGGEQAAQAPAETPAASAEAASSAAQATAETPAGELPVIDAVTTHAPEVPPAIDRDYPAKVRVKMETVEKTMKMDDGVEYRYWTFDGDVPGRMIRVREGDTVEVEFSNNPSSTVPHNVDFHAATGQGGGAAATFTAPGRTSTFSFKALQPGLYIYHCAVAPVGMHIANGMYGLILVEPKEGLPKVDKEFYIVQGDFYTKGKKGAQGLQPFDMDKAVAEQPEYVVFNGHVGSIAGDNALKAKAGETVRMYVGNGGPNLVSSFHVIGEIFDKVYVEGGKLINENVQSTIVPAGGSAIVEFKVDIPGSYTLVDHSIFRAFNKGALGQLKVEGAENPEIMTQKLSDTAYAGSGAASAPAASAPAASAPAASASEKSVY |
| 304 | sp|Q8MQX9|ANKL2\_DROME | MSTYFGVYIPTSKAGCFEGSVSQCIGSIAAVNIKPSNPASGSASVASGSPSGSAASVQTGNADDGSAATKYEDPDYPPDSPLWLIFTEKSKALDILRHYKEARLREFPNLEQAESYVQFGFESIEALKRFCKAKPESKPIPIISGSGYKSSPTSTDNSCSSSPTGNGSGFIIPLGSNSSMSNLLLSDSPTSSPSSSSNVIANGRQQQMQQQQQQQPQQPDVSGEGPPFRAPTKQELVEFRKQIEGGHIDRVKRIIWENPRFLISSGDTPTSLKEGCRYNAMHICAQVNKARIAQLLLKTISDREFTQLYVGKKGSGKMCAALNISLLDYYLNMPDKGRGETPLHFAAKNGHVAMVEVLVSYPECKSLRNHEGKEPKEIICLRNANATHVTIKKLELLLYDPHFVPVLRSQSNTLPPKVGQPFSPKDPPNLQHKADDYEGLSVDLAISALAGPMSREKAMNFYRRWKTPPRVSNNVMSPLAGSPFSSPVKVTPSKSIFDRSAGNSSPVHSGRRVLFSPLAEATSSPKPTKNVPNGTNECEHNNNNVKPVYPLEFPATPIRKMKPDLFMAYRNNNSFDSPSLADDSQILDMSLSRSLNASLNDSFRERHIKNTDIEKGLEVVGRQLARQEQLEWREYWDFLDSFLDIGTTEGLARLEAYFLEKTEQQADKSETVWNFAHLHQYFDSMAGEQQQQLRKDKNEAAGATSPSAGVMTPYTCVEKSLQVFAKRITKTLINKIGNMVSINDTLLCELKRLKSLIVSFKDDARFISVDFSKVHSRIAHLVASYVTHSQEVSVAMRLQLLQMLRSLRQLLADERGREQHLGCVCASLLLMLEQAPTSAVHLPDTLKTEELCCAAWETEQCCACLWDANLSRKTSRRKRTKSLRAAAVVQSQGQLQDTSGSTGSSALHASLGVGSTSLGASRVVASASKDAWRRQQSDDEDYDSDEQVIFFDCTNVTLPYGSSSEDEENFRTPPQSLSPGISMDLEPRYELFIFGNEPTKRDLDVLNALSNVDIDKETLPHVYAWKTAMESYSCAEMNLFPSPRNVKVQKPEPWYSGTSSSHNSQPLLHPKRLLATPKLNAVVSGRRGSGPLTAPVTPRLARTPSAASIQVASETNGESVGTAVTPASPILSFAALTAATQSFQTPLNKVRGLFSQYRDQRSYNEGDTPLGNRN |
| 305 | sp|Q9JKW0|AR6P1\_MOUSE | MAEGDNRSSNLLAVETASLEEQLQGWGEVMLMADKVLRWERAWFPPAIMGVVSLLFLIIYYLDPSVLSGVSCFVMFLCLADYLVPILAPRIFGSNKWTTEQQQRFHEICSNLVKTRRRAVGWWKRLFSLKEEKPKMYFMTMIISLAAVAWVGQQVHNLLLTYLIVTFVLLLPGLNQHGIILKYIGMAKREINKLLKQKEKKNE |
| 306 | sp|P27216|ANX13\_HUMAN | MGNRHAKASSPQGFDVDRDAKKLNKACKGMGTNEAAIIEILSGRTSDERQQIKQKYKATYGKELEEVLKSELSGNFEKTALALLDRPSEYAARQLQKAMKGLGTDESVLIEVLCTRTNKEIIAIKEAYQRLFDRSLESDVKGDTSGNLKKILVSLLQANRNEGDDVDKDLAGQDAKDLYDAGEGRWGTDELAFNEVLAKRSYKQLRATFQAYQILIGKDIEEAIEEETSGDLQKAYLTLVRCAQDCEDYFAERLYKSMKGAGTDEETLIRIVVTRAEVDLQGIKAKFQEKYQKSLSDMVRSDTSGDFRKLLVALLH |
| 307 | sp|Q02410|APBA1\_HUMAN | MNHLEGSAEVEVTDEAAGGEVNESVEADLEHPEVEEEQQQPPQQQHYVGRHQRGRALEDLRAQLGQEEEERGECLARSASTESGFHNHTDTAEGDVIAAARDGYDAERAQDPEDESAYAVQYRPEAEEYTEQAEAEHAEATHRRALPNHLHFHSLEHEEAMNAAYSGYVYTHRLFHRGEDEPYSEPYADYGGLQEHVYEEIGDAPELDARDGLRLYEQERDEAAAYRQEALGARLHHYDERSDGESDSPEKEAEFAPYPRMDSYEQEEDIDQIVAEVKQSMSSQSLDKAAEDMPEAEQDLERPPTPAGGRPDSPGLQAPAGQQRAVGPAGGGEAGQRYSKEKRDAISLAIKDIKEAIEEVKTRTIRSPYTPDEPKEPIWVMRQDISPTRDCDDQRPMDGDSPSPGSSSPLGAESSSTSLHPSDPVEASTNKESRKSLASFPTYVEVPGPCDPEDLIDGIIFAANYLGSTQLLSDKTPSKNVRMMQAQEAVSRIKMAQKLAKSRKKAPEGESQPMTEVDLFISTQRIKVLNADTQETMMDHPLRTISYIADIGNIVVLMARRRMPRSNSQENVEASHPSQDGKRQYKMICHVFESEDAQLIAQSIGQAFSVAYQEFLRANGINPEDLSQKEYSDLLNTQDMYNDDLIHFSKSENCKDVFIEKQKGEILGVVIVESGWGSILPTVIIANMMHGGPAEKSGKLNIGDQIMSINGTSLVGLPLSTCQSIIKGLKNQSRVKLNIVRCPPVTTVLIRRPDLRYQLGFSVQNGIICSLMRGGIAERGGVRVGHRIIEINGQSVVATPHEKIVHILSNAVGEIHMKTMPAAMYRLLTAQEQPVYI |
| 308 | sp|O15265|ATX7\_HUMAN | MSERAADDVRGEPRRAAAAAGGAAAAAARQQQQQQQQQQPPPPQPQRQQHPPPPPRRTRPEDGGPGAASTSAAAMATVGERRPLPSPEVMLGQSWNLWVEASKLPGKDGTELDESFKEFGKNREVMGLCREDMPIFGFCPAHDDFYLVVCNDCNQVVKPQAFQSHYERRHSSSSKPPLAVPPTSVFSFFPSLSKSKGGSASGSNRSSSGGVLSASSSSSKLLKSPKEKLQLRGNTRPMHPIQQSRVPHGRIMTPSVKVEKIHPKMDGTLLKSAVGPTCPATVSSLVKPGLNCPSIPKPTLPSPGQILNGKGLPAPPTLEKKPEDNSNNRKFLNKRLSEREFDPDIHCGVIDLDTKKPCTRSLTCKTHSLTQRRAVQGRRKRFDVLLAEHKNKTREKELIRHPDSQQPPQPLRDPHPAPPRTSQEPHQNPHGVIPSESKPFVASKPKPHTPSLPRPPGCPAQQGGSAPIDPPPVHESPHPPLPATEPASRLSSEEGEGDDKEESVEKLDCHYSGHHPQPASFCTFGSRQIGRGYYVFDSRWNRLRCALNLMVEKHLNAQLWKKIPPVPSTTSPISTRIPHRTNSVPTSQCGVSYLAAATVSTSPVLLSSTCISPNSKSVPAHGTTLNAQPAASGAMDPVCSMQSRQVSSSSSSPSTPSGLSSVPSSPMSRKPQKLKSSKSLRPKESSGNSTNCQNASSSTSGGSGKKRKNSSPLLVHSSSSSSSSSSSSHSMESFRKNCVAHSGPPYPSTVTSSHSIGLNCVTNKANAVNVRHDQSGRGPPTGSPAESIKRMSVMVNSSDSTLSLGPFIHQSNELPVNSHGSFSHSHTPLDKLIGKKRKCSPSSSSINNSSSKPTKVAKVPAVNNVHMKHTGTIPGAQGLMNSSLLHQPKARP |
| 309 | sp|Q9WV54|ASAH1\_MOUSE | MRGQSLLTWVLAAAVTCAQAQDVPPWTEDCRKSTYPPSGPTYRGPVPWHTINLDLPPYKRWHELLAQKAPALRILVNSITSLVNTFVPSGKLMKMVDQKLPGMIGSLPDPFGEEMRGIADVTGIPLGEIISFNIFYELFTMCTSIITEDEKGHLLHGRNMDFGIFLGWNINNNTWVVTEELKPLTVNLDFQRNNKTVFKATSFVGYVGMLTGFKPGLFSLSLNERFSINGGYLGILEWMFGRKDAQWVGFITRSVLENTTSYEEAKNTLTKTKIMAPVYFILGGKKSGEGCVITRERKESLDVYELDPKHGRWYVVQTNYDRWKNTLFIDDRRTPAKKCLNHTTQKNLSFATIYDVLSTKPVLNKLTVFTTLMDVTKGQFESHLRDCPDPCIGW |
| 310 | sp|P38840|ARO9\_YEAST | MTAGSAPPVDYTSLKKNFQPFLSRRVENRSLKSFWDASDISDDVIELAGGMPNERFFPIESMDLKISKVPFNDNPKWHNSFTTAHLDLGSPSELPIARSFQYAETKGLPPLLHFVKDFVSRINRPAFSDETESNWDVILSGGSNDSMFKVFETICDESTTVMIEEFTFTPAMSNVEATGAKVIPIKMNLTFDRESQGIDVEYLTQLLDNWSTGPYKDLNKPRVLYTIATGQNPTGMSVPQWKREKIYQLAQRHDFLIVEDDPYGYLYFPSYNPQEPLENPYHSSDLTTERYLNDFLMKSFLTLDTDARVIRLETFSKIFAPGLRLSFIVANKFLLQKILDLADITTRAPSGTSQAIVYSTIKAMAESNLSSSLSMKEAMFEGWIRWIMQIASKYNHRKNLTLKALYETESYQAGQFTVMEPSAGMFIIIKINWGNFDRPDDLPQQMDILDKFLLKNGVKVVLGYKMAVCPNYSKQNSDFLRLTIAYARDDDQLIEASKRIGSGIKEFFDNYKS |
| 311 | sp|Q8C9W3|ATS2\_MOUSE | MDPPAGAARRLLCPALLLLLLPPPPLLLLPPPPASVRLVAATEPPGGPPGQGAERILAVPVRTDAQGRLVSHVVSLETAGAGVRARRAALDQTSGLPGGAAQDPGGRLFYNLTVFGRDLHLRLRPNARLVAPGATVEWQGETGDTRVEPLLGSCLYVGDVADLPKASSVALSNCDGLAGLIRMEEEEFFIEPLEKGQTDQEAEQGRVHVVYRRPPTPKPPPVSEPQALDTGVSQGNLDSLSRALGVLEERINSSRRRVRRHATDDDYNIEVLLGVDDSVVQFHGKEHVQKYLLTLMNIVNEIYHDESLGAHINVVLVRIILLSHAKSMSLIEIGNPSQSLENVCRWAYLQQKPDTDHDEYHDHAIFLTRQDFGPSGMQGYAPVTGMCHPVRSCTLNHEDGFSSAFVVAHETGHVLGMEHDGQGNRCGDEVRLGSIMAPLVQAAFHRFHWSRCSQQELSRYLHSYDCLRDDPFAHDWPALPQLPGLHYSMNEQCRFDFGLGYMMCTAFRTFDPCKQLWCSHPDNPYFCKTKKGPPLDGTMCAPGKHCFKGHCIWLTPDILKRDGNWGAWTPFGSCSRTCGTGVKFRTRQCDNPHPANGGRTCSGLAYDFQLCNPQDCPNSLADFREEQCQQWDLYFEHGDVQHHWLPHEHRDAKERCHLYCESKETGEVVSMKRMVHDGTRCSYKDAFSLCVRGDCRKVGCDGVIGSRKQEDKCGVCGGDNTHCKVVKGTFTRSPRKQDYIKMFEIPAGARHLLIQEADTTSHHLSVKNLETGKFILNEENHLDPNSRSFIAMGVEWEYRNEDERETLQTIGPLHGTITVLVIPEGDTRISLTYKYMIHEDSLNVDDNNVLEDDAVRHEWALKKWSPCSKPCGGGSQFTKYGCRRRLDSKMVHRAFCSALAKPKAIRRACNPQECSQPVWVTGEWEPCTQSCGRTGMQVRSVRCIQPLHNNTTRSVHTKHCNDHRPESRRACNRELCPGRWRAGSWSQCSVTCGNGTQERPVLCRTADDNFGVCREERPETARICRLAPCPRNGSDPSKKSYVVQWLSRPDPDSPIQKISSKDQCQGDKSMFCRMEVLSRYCSIPSYNKLCCKSCNPPRNLSNTEDGGVEPPPGKHNDIDVFMPTLPGPTVATQVQPSPGPPLEAPLNVSSTNATEDHPETNAVDVPYKIHGVDEEVPSPNLIPRRPSLYVKTRNQRIQELINAVQRKEKPGKF |
| 312 | sp|Q86Z23|C1QL4\_HUMAN | MVLLLLVAIPLLVHSSRGPAHYEMLGRCRMVCDPHGPRGPGPDGAPASVPPFPPGAKGEVGRRGKAGLRGPPGPPGPRGPPGEPGRPGPPGPPGPGPGGVAPAAGYVPRIAFYAGLRRPHEGYEVLRFDDVVTNVGNAYEAASGKFTCPMPGVYFFAYHVLMRGGDGTSMWADLMKNGQVRASAIAQDADQNYDYASNSVILHLDVGDEVFIKLDGGKVHGGNTNKYSTFSGFIIYPD |
| 313 | sp|P35670|ATP7B\_HUMAN | MPEQERQITAREGASRKILSKLSLPTRAWEPAMKKSFAFDNVGYEGGLDGLGPSSQVATSTVRILGMTCQSCVKSIEDRISNLKGIISMKVSLEQGSATVKYVPSVVCLQQVCHQIGDMGFEASIAEGKAASWPSRSLPAQEAVVKLRVEGMTCQSCVSSIEGKVRKLQGVVRVKVSLSNQEAVITYQPYLIQPEDLRDHVNDMGFEAAIKSKVAPLSLGPIDIERLQSTNPKRPLSSANQNFNNSETLGHQGSHVVTLQLRIDGMHCKSCVLNIEENIGQLLGVQSIQVSLENKTAQVKYDPSCTSPVALQRAIEALPPGNFKVSLPDGAEGSGTDHRSSSSHSPGSPPRNQVQGTCSTTLIAIAGMTCASCVHSIEGMISQLEGVQQISVSLAEGTATVLYNPSVISPEELRAAIEDMGFEASVVSESCSTNPLGNHSAGNSMVQTTDGTPTSVQEVAPHTGRLPANHAPDILAKSPQSTRAVAPQKCFLQIKGMTCASCVSNIERNLQKEAGVLSVLVALMAGKAEIKYDPEVIQPLEIAQFIQDLGFEAAVMEDYAGSDGNIELTITGMTCASCVHNIESKLTRTNGITYASVALATSKALVKFDPEIIGPRDIIKIIEEIGFHASLAQRNPNAHHLDHKMEIKQWKKSFLCSLVFGIPVMALMIYMLIPSNEPHQSMVLDHNIIPGLSILNLIFFILCTFVQLLGGWYFYVQAYKSLRHRSANMDVLIVLATSIAYVYSLVILVVAVAEKAERSPVTFFDTPPMLFVFIALGRWLEHLAKSKTSEALAKLMSLQATEATVVTLGEDNLIIREEQVPMELVQRGDIVKVVPGGKFPVDGKVLEGNTMADESLITGEAMPVTKKPGSTVIAGSINAHGSVLIKATHVGNDTTLAQIVKLVEEAQMSKAPIQQLADRFSGYFVPFIIIMSTLTLVVWIVIGFIDFGVVQRYFPNPNKHISQTEVIIRFAFQTSITVLCIACPCSLGLATPTAVMVGTGVAAQNGILIKGGKPLEMAHKIKTVMFDKTGTITHGVPRVMRVLLLGDVATLPLRKVLAVVGTAEASSEHPLGVAVTKYCKEELGTETLGYCTDFQAVPGCGIGCKVSNVEGILAHSERPLSAPASHLNEAGSLPAEKDAVPQTFSVLIGNREWLRRNGLTISSDVSDAMTDHEMKGQTAILVAIDGVLCGMIAIADAVKQEAALAVHTLQSMGVDVVLITGDNRKTARAIATQVGINKVFAEVLPSHKVAKVQELQNKGKKVAMVGDGVNDSPALAQADMGVAIGTGTDVAIEAADVVLIRNDLLDVVASIHLSKRTVRRIRINLVLALIYNLVGIPIAAGVFMPIGIVLQPWMGSAAMAASSVSVVLSSLQLKCYKKPDLERYEAQAHGHMKPLTASQVSVHIGMDDRWRDSPRATPWDQVSYVSQVSLSSLTSDKPSRHSAAADDDGDKWSLLLNGRDEEQYI |
| 314 | sp|P0DP24|CALM2\_HUMAN | MADQLTEEQIAEFKEAFSLFDKDGDGTITTKELGTVMRSLGQNPTEAELQDMINEVDADGNGTIDFPEFLTMMARKMKDTDSEEEIREAFRVFDKDGNGYISAAELRHVMTNLGEKLTDEEVDEMIREADIDGDGQVNYEEFVQMMTAK |
| 315 | sp|Q8HYP5|CCL21\_MACMU | MAQSLALSLLILVLAFGIPGTQGSDGGAQDCCLKYSQRKIPAKVVRSYRKQEPSLGCSIPAILFLPRKRSQAELCADPKELWVQQLMQHLDKTPTPRKPVQGCRKDRGVPKNGKKGKGCKRTEQSQTPKGP |
| 316 | sp|P27797|CALR\_HUMAN | MLLSVPLLLGLLGLAVAEPAVYFKEQFLDGDGWTSRWIESKHKSDFGKFVLSSGKFYGDEEKDKGLQTSQDARFYALSASFEPFSNKGQTLVVQFTVKHEQNIDCGGGYVKLFPNSLDQTDMHGDSEYNIMFGPDICGPGTKKVHVIFNYKGKNVLINKDIRCKDDEFTHLYTLIVRPDNTYEVKIDNSQVESGSLEDDWDFLPPKKIKDPDASKPEDWDERAKIDDPTDSKPEDWDKPEHIPDPDAKKPEDWDEEMDGEWEPPVIQNPEYKGEWKPRQIDNPDYKGTWIHPEIDNPEYSPDPSIYAYDNFGVLGLDLWQVKSGTIFDNFLITNDEAYAEEFGNETWGVTKAAEKQMKDKQDEEQRLKEEEEDKKRKEEEEAEDKEDDEDKDEDEEDEEDKEEDEEEDVPGQAKDEL |
| 317 | sp|Q59SU1|CARP9\_CANAL | MRLNSVALLSLVATALAAKAPFKIDFEVRRGESKDDLSPEDDSNPRFVKRDGSLDMTLTNKQTFYMATLKIGSNEDENRVLVDTGSSDLWVMSHDLKCVSAPNSKRNERSFGHGTGVKLNERELMQKRKNLYQPSRTIETDEEKEASEKIHNKLFGFGSIYSTVYITEGPGAYSTFSPFVGTEGGSGGSGGSNTCTSYGSFNTENSDTFKKNNTNDFEIQYADDTSAIGIWGYDDVTISNVTVKDLSFAIANETSSDVGVLGIGLPGLEVTTQYGYTYQNLPLKLKADGIIAKSLYSLYLNTADAKAGSILFGAIDHAKYQGDLVTVKMMRTYSQISYPVRIQVPVSKIDVESSSGSTTNILSSTTGVVLDTGSTLSYVFSDTLQSLGKALNGQYSNSVGAYVVNCNLADSSRTVDIEFGGNKTIKVPISDLVLQASKSTCILGVMQQSSSSSYMLFGDNILRSAYIVYDLDDYEVSLAQVSYTNKESIEVIGASGITNSSGSGTTSSSGTSTSTSTRHSAGSIISKPVYGLLLSLLISCYVLV |
| 318 | sp|Q97NV3|CH10\_STRPN | MLKPLGDRVVLKIEEKEQTVGGFVLAGSAQEKTKTAQVVATGQGVRTLNGDLVAPSVKTGDRVLVEAHAGLDVKDGDEKYIIVGEANILAIIEE |
| 319 | sp|P07834|CDC4\_YEAST | MGSFPLAEFPLRDIPVPYSYRVSGGIASSGSVTALVTAAGTHRNSSTAKTVETEDGEEDIDEYQRKRAAGSGESTPERSDFKRVKHDNHKTLHPVNLQNTGAASVDNDGLHNLTDISNDAEKLLMSVDDGSAAPSTLSVNMGVASHNVAAPTTVNAATITGSDVSNNVNSATINNPMEEGALPLSPTASSPGTTTPLAKTTKTINNNNNIADLIESKDSIISPEYLSDEIFSAINNNLPHAYFKNLLFRLVANMDRSELSDLGTLIKDNLKRDLITSLPFEISLKIFNYLQFEDIINSLGVSQNWNKIIRKSTSLWKKLLISENFVSPKGFNSLNLKLSQKYPKLSQQDRLRLSFLENIFILKNWYNPKFVPQRTTLRGHMTSVITCLQFEDNYVITGADDKMIRVYDSINKKFLLQLSGHDGGVWALKYAHGGILVSGSTDRTVRVWDIKKGCCTHVFKGHNSTVRCLDIVEYKNIKYIVTGSRDNTLHVWKLPKESSVPDHGEEHDYPLVFHTPEENPYFVGVLRGHMASVRTVSGHGNIVVSGSYDNTLIVWDVAQMKCLYILSGHTDRIYSTIYDHERKRCISASMDTTIRIWDLENIWNNGECSYATNSASPCAKILGAMYTLQGHTALVGLLRLSDKFLVSAAADGSIRGWDANDYSRKFSYHHTNLSAITTFYVSDNILVSGSENQFNIYNLRSGKLVHANILKDADQIWSVNFKGKTLVAAVEKDGQSFLEILDFSKASKINYVSNPVNSSSSSLESISTSLGLTRTTIIP |
| 320 | sp|Q9XFX4|CARDB\_CYNCA | MGTPIKASLLALFLFFLLSPTAFSVSNGGLLRVGLKKRKVDRLDQLRAHGVHMLGNARKDFGFRRTLSDSGSGIVALTNDRDTAYYGEIGIGTPPQNFAVIFDTGSSDLWVPSTKCDTSLACVIHPRYDSGDSSTYKGNGTTASIQYGTGAIVGFYSQDSVEVGDLVVEHQDFIETTEEDDTVFLKSEFDGILGLGFQEISAGKAVPVWYNMVNQGLVEEAVFSFWLNRNVDEEEGGELVFGGVDPNHFRGNHTYVPVTRKGYWQFEMGDVLIGDKSSGFCAGGCAAIADSGTSFFAGPTAIITQINQAIGAKGVLNQQCKTLVGQYGKNMIQMLTSEVQPDKICSHMKLCTFDGAHDVRSMIESVVDKNNDKSSGGEICTFCEMALVRMQNEIKRNETEDNIINHVNEVCDQLPTSSAESIVDCNGISSMPNIAFTIGSKLFEVTPEQYIYKVGEGEAATCISGFTALDIMSPQGPIWILGDMFMGPYHTVFDYGKLRVGFAEAV |
| 321 | sp|P43235|CATK\_HUMAN | MWGLKVLLLPVVSFALYPEEILDTHWELWKKTHRKQYNNKVDEISRRLIWEKNLKYISIHNLEASLGVHTYELAMNHLGDMTSEEVVQKMTGLKVPLSHSRSNDTLYIPEWEGRAPDSVDYRKKGYVTPVKNQGQCGSCWAFSSVGALEGQLKKKTGKLLNLSPQNLVDCVSENDGCGGGYMTNAFQYVQKNRGIDSEDAYPYVGQEESCMYNPTGKAAKCRGYREIPEGNEKALKRAVARVGPVSVAIDASLTSFQFYSKGVYYDESCNSDNLNHAVLAVGYGIQKGNKHWIIKNSWGENWGNKGYILMARNKNNACGIANLASFPKM |
| 322 | sp|Q16543|CDC37\_HUMAN | MVDYSVWDHIEVSDDEDETHPNIDTASLFRWRHQARVERMEQFQKEKEELDRGCRECKRKVAECQRKLKELEVAEGGKAELERLQAEAQQLRKEERSWEQKLEEMRKKEKSMPWNVDTLSKDGFSKSMVNTKPEKTEEDSEEVREQKHKTFVEKYEKQIKHFGMLRRWDDSQKYLSDNVHLVCEETANYLVIWCIDLEVEEKCALMEQVAHQTIVMQFILELAKSLKVDPRACFRQFFTKIKTADRQYMEGFNDELEAFKERVRGRAKLRIEKAMKEYEEEERKKRLGPGGLDPVEVYESLPEELQKCFDVKDVQMLQDAISKMDPTDAKYHMQRCIDSGLWVPNSKASEAKEGEEAGPGDPLLEAVPKTGDEKDVSV |
| 323 | sp|Q27487|CATA1\_CAEEL | MPNDPSDNQLKTYKETYPKPQVITTSNGAPIYSKTAVLTAGRRGPMLMQDVVYMDEMAHFDRERIPERVVHAKGAGAHGYFEVTHDISKYCKADIFNKVGKQTPLLIRFSTVGGESGSADTARDPRGFAIKFYTEEGNWDLVGNNTPIFFIRDPIHFPNFIHTQKRNPQTHLKDPNMIFDFWLHRPEALHQVMFLFSDRGLPDGYRHMNGYGSHTFKMVNKDGKAIYVKFHFKPTQGVKNLTVEKAGQLASSDPDYSIRDLFNAIEKGDFPVWKMFIQVMTFEQAEKWEFNPFDVTKVWPHGDYPLIEVGKMVLNRNPRNYFAEVEQSAFCPAHIVPGIEFSPDKMLQGRIFSYTDTHFHRLGPNYIQLPVNCPYRSRAHNTQRDGAMAYDNQQHAPNFFPNSFNYGKTRPDVKDTTFPATGDVDRYESGDDNNYDQPRQFWEKVLDTGARERMCQNFAGPLGECHDFIIKGMIDHFSKVHPDFGARVKALIQKQARSHI |
| 324 | sp|P14384|CBPM\_HUMAN | MDFPCLWLGLLLPLVAALDFNYHRQEGMEAFLKTVAQNYSSVTHLHSIGKSVKGRNLWVLVVGRFPKEHRIGIPEFKYVANMHGDETVGRELLLHLIDYLVTSDGKDPEITNLINSTRIHIMPSMNPDGFEAVKKPDCYYSIGRENYNQYDLNRNFPDAFEYNNVSRQPETVAVMKWLKTETFVLSANLHGGALVASYPFDNGVQATGALYSRSLTPDDDVFQYLAHTYASRNPNMKKGDECKNKMNFPNGVTNGYSWYPLQGGMQDYNYIWAQCFEITLELSCCKYPREEKLPSFWNNNKASLIEYIKQVHLGVKGQVFDQNGNPLPNVIVEVQDRKHICPYRTNKYGEYYLLLLPGSYIINVTVPGHDPHITKVIIPEKSQNFSALKKDILLPFQGQLDSIPVSNPSCPMIPLYRNLPDHSAATKPSLFLFLVSLLHIFFK |
| 325 | sp|P26051|CD44\_RAT | MDKVWWHTAWGLLCLLQLSLAQQQIDLNITCRYAGVFHVEKNGRYSISRTEAADLCEAFNTTLPTMAQMELALRKGFETCRYGFIEGHVVIPRIHPNAICAANNTGVYILLASNTSHYDTYCFNASAPLEEDCTSVTDLPNSFDGPVTITIVNRDGTRYSKKGEYRTHQEDIDASNIIDEDVSSGSTIEKSTPEGYILHTDLPTSQPTGDRDDAFFIGSTLATIATTPWVSAHTKQNQERTQWNPIHSNPEVLLQTTTRMTDIDRNSTSAHGENWTQEPQPPFNNHEYQDEEETPHATSTTWADPNSTTEEAATQKEKWFENEWQGKNPPTPSEDSHVTEGTTASAHNNHPSQRMTTQSQEDVSWTDFFDPISHPMGQGHQTESKGHSSGNQDSGVTTTSGPARRPQIPEWLIILASLLALALILAVCIAVNSRRRCGQKKKLVINSGNGTVEDRKPSELNGEASKSQEMVHLVNKEPTETPDQFMTADETRNLQSVDMKIGV |
| 326 | sp|O15519|CFLAR\_HUMAN | MSAEVIHQVEEALDTDEKEMLLFLCRDVAIDVVPPNVRDLLDILRERGKLSVGDLAELLYRVRRFDLLKRILKMDRKAVETHLLRNPHLVSDYRVLMAEIGEDLDKSDVSSLIFLMKDYMGRGKISKEKSFLDLVVELEKLNLVAPDQLDLLEKCLKNIHRIDLKTKIQKYKQSVQGAGTSYRNVLQAAIQKSLKDPSNNFRLHNGRSKEQRLKEQLGAQQEPVKKSIQESEAFLPQSIPEERYKMKSKPLGICLIIDCIGNETELLRDTFTSLGYEVQKFLHLSMHGISQILGQFACMPEHRDYDSFVCVLVSRGGSQSVYGVDQTHSGLPLHHIRRMFMGDSCPYLAGKPKMFFIQNYVVSEGQLEDSSLLEVDGPAMKNVEFKAQKRGLCTVHREADFFWSLCTADMSLLEQSHSSPSLYLQCLSQKLRQERKRPLLDLHIELNGYMYDWNSRVSAKEKYYVWLQHTLRKKLILSYT |
| 327 | sp|P19073|CDC42\_YEAST | MQTLKCVVVGDGAVGKTCLLISYTTNQFPADYVPTVFDNYAVTVMIGDEPYTLGLFDTAGQEDYDRLRPLSYPSTDVFLVCFSVISPPSFENVKEKWFPEVHHHCPGVPCLVVGTQIDLRDDKVIIEKLQRQRLRPITSEQGSRLARELKAVKYVECSALTQRGLKNVFDEAIVAALEPPVIKKSKKCAIL |
| 328 | sp|O35280|CHK1\_MOUSE | MAVPFVEDWDLVQTLGEGAYGEVQLAVNRITEEAVAVKIVDMKRAIDCPENIKKEICINKMLSHENVVKFYGHRREGHIQYLFLEYCSGGELFDRIEPDIGMPEQDAQRFFHQLMAGVVYLHGIGITHRDIKPENLLLDERDNLKISDFGLATVFRHNNRERLLNKMCGTLPYVAPELLKRKEFHAEPVDVWSCGIVLTAMLAGELPWDQPSDSCQEYSDWKEKKTYLNPWKKIDSAPLALLHKILVETPSARITIPDIKKDRWYNKPLNRGAKRPRATSGGMSESSSGFSKHIHSNLDFSPVNNGSSEETVKFSSSQPEPRTGLSLWDTGPSNVDKLVQGISFSQPTCPEHMLVNSQLLGTPGSSQNPWQRLVKRMTRFFTKLDADKSYQCLKETFEKLGYQWKKSCMNQVTVSTTDRRNNKLIFKINLVEMDEKILVDFRLSKGDGLEFKRHFLKIKGKLSDVVSSQKVWFPVT |
| 329 | sp|Q00PJ2|CFTR\_ATEAB | MQRSPLEKASVISKLFFSWTRPILRKGYRQRLELSDIYQIPSTDSADNLSEKLEREWDRELASKKNPKLINALRRCFFWKFMFYGILLYLGEVTKAVQPLLLGRIIASYDPDNKVERSIAIYLGIGLCLLFVVRTLLLHPAIFGLHHIGMQMRIAMFSLIYKKTLKLSSRVLDKISIGQLISLLSNNLNKFDEGLALAHFVWIVPLQVTLLMGLLWELLQASAFCGLAFLIIVAFYQAGLGRMMMKYRDKRGGKINERLVITSEMIENIQSVKAYCWEEAMEKMIENLRQTELKLTRKAAYVRYCNSSAFFFSGFFVVFLSVLPYALMKGIILRKIFTTISFCIVLRMAVTRQFPWAVQTWYDSLGAINKIQDFLQKQEYKTLEYNLTTTEVVMENATAYWEEGFGGLFEKAKQNNNNRKISNGDNSLFFSNFSLLGTPVLKDINFKIERGQLLAVAGSTGAGKTSLLMMIMGELEPSAGKIKHSGRISFCSQFSWIMPGTIKENIIFGVSYDEYRYRSVIKACQLEEDISKFTEKDNIVLGEGGITLSGGQRARISLARAVYKDADLYLLDSPFGYLDVLTEKEIFESCVCKLMANKTRILVTSKMEHLKKADKILILHEGSTYFYGTFSELQNLRPDFSSKLMGYDSFDQFSAERRNSILTETLRRFSLEGDGAVSWNETRKQSFKQTGEFGEKRKNSILNSMNSARKFSIVQKTTLQMNGIEANSEEPLERRLSLVPDSELGETILPRSNVINTGPTLQGRRRQSVLNLMTGSSGNQGQGIHRKAAASTRKMSLAPSTNFTEMDIYSRRLSQDSGLEISEEINEEDLKECFFDDVENIPAVTTWNTYLRYITIHKSLIFVLIWCLIIFLAEVAVSLVFLLLFEKSPRQDTGNVTKSSNNSSYGVIITNTSSYYIIYIYVGVADTLLALGLLRGLPLVHTLITASKILHHKMLHSVLQAPMSTLNTLKAGGILNRFSKDIAILDDLLPLTIFDFIQLILIVIGAVIVVSVLEPYIFLATVPVIIAFVMLRAYFLHTSQQLKQLESEGRSPIFTHLVTSLKGLWTLRAFGRQPYFETLFHKALNLHTANWFLYLSTLRWFQMRIEMIFVIFFIAVTFISILTTGDGEGRVGIILTLAMNIMNTLQWAVNSSIDVDSLMRSVSRVFKFIDMPTEEIKPSKPVKPSKEGPLSKVMIIENEHVKKDDIWPSGGQMTVKDLTAKYIESGNAILENISFSISPGQRVGLLGRTGSGKSTLLSAFLRLLNTEGEIQIDGVSWDSITLQQWRKAFGVIPQKVFIFSGTFRKNLDPYEQWNDQEIWKVADEVGLRSVIEQFPGKLDFVLVDGGYVLSHGHKQLMCLARSVLSKAKILLLDEPSAHLDPITYQIIRRTIKQAFADCTVILCEHRIEAMLECQRFLVIEENKVRQYDSIQKLLSEKSLFRQAISNSDRLKLFPHRNSSKHKSRSKIAALKEETEEEVQETRL |
| 330 | sp|O14757|CHK1\_HUMAN | MAVPFVEDWDLVQTLGEGAYGEVQLAVNRVTEEAVAVKIVDMKRAVDCPENIKKEICINKMLNHENVVKFYGHRREGNIQYLFLEYCSGGELFDRIEPDIGMPEPDAQRFFHQLMAGVVYLHGIGITHRDIKPENLLLDERDNLKISDFGLATVFRYNNRERLLNKMCGTLPYVAPELLKRREFHAEPVDVWSCGIVLTAMLAGELPWDQPSDSCQEYSDWKEKKTYLNPWKKIDSAPLALLHKILVENPSARITIPDIKKDRWYNKPLKKGAKRPRVTSGGVSESPSGFSKHIQSNLDFSPVNSASSEENVKYSSSQPEPRTGLSLWDTSPSYIDKLVQGISFSQPTCPDHMLLNSQLLGTPGSSQNPWQRLVKRMTRFFTKLDADKSYQCLKETCEKLGYQWKKSCMNQVTISTTDRRNNKLIFKVNLLEMDDKILVDFRLSKGDGLEFKRHFLKIKGKLIDIVSSQKIWLPAT |
| 331 | sp|Q96H22|CENPN\_HUMAN | MDETVAEFIKRTILKIPMNELTTILKAWDFLSENQLQTVNFRQRKESVVQHLIHLCEEKRASISDAALLDIIYMQFHQHQKVWEVFQMSKGPGEDVDLFDMKQFKNSFKKILQRALKNVTVSFRETEENAVWIRIAWGTQYTKPNQYKPTYVVYYSQTPYAFTSSSMLRRNTPLLGQALTIASKHHQIVKMDLRSRYLDSLKAIVFKQYNQTFETHNSTTPLQERSLGLDINMDSRIIHENIVEKERVQRITQETFGDYPQPQLEFAQYKLETKFKSGLNGSILAEREEPLRCLIKFSSPHLLEALKSLAPAGIADAPLSPLLTCIPNKRMNYFKIRDK |
| 332 | sp|Q95YF3|CGH1\_CAEEL | MSGAEQQQIVPANNGDENWKAGLNLPAKDRRFKTADVTDTKGVEFEDFCLGRDLLMGIFEKGWEKPSPIQEASIGVALTGQDILARAKNGTGKTGAYCIPVIEKIQPALKAIQAMVIVPTRELALQTSQICVELSKHIQLKVMVTTGGTDLRDDIMRLNGTVHLVIATPGRILDLMEKGVAKMEHCKTLVLDEADKLLSQDFQGILDRLINFLPKERQVMLYSATFPNTVTSFMQKHMHKPYEINLMEELTLLGVTQYYAFVQEKQKVHCLNTLFRKLQINQSIIFCNSTQRVELLAKKITEIGYSCYYIHSKMAQNHRNRVFHDFRQGNCRNLVCSDLLTRGIDIQAVNVVINFDFPRNAETYLHRIGRSGRFGHLGVAINLITYEDRHTLRRIEQELRTRIEPIPKTVDPKLYVADQQLVDAADETTA |
| 333 | sp|P10300|CD8B\_MOUSE | MQPWLWLVFSMKLAALWSSSALIQTPSSLLVQTNHTAKMSCEVKSISKLTSIYWLRERQDPKDKYFEFLASWSSSKGVLYGESVDKKRNIILESSDSRRPFLSIMNVKPEDSDFYFCATVGSPKMVFGTGTKLTVVDVLPTTAPTKKTTLKMKKKKQCPFPHPETQKGLTCSLTTLSLLVVCILLLLAFLGVAVYFYCVRRRARIHFMKQFHK |
| 334 | sp|P22516|CHL1\_YEAST | MDKKEYSETFYHPYKPYDIQVQLMETVYRVLSEGKKIAILESPTGTGKTLSLICATMTWLRMNKADIFTRMETNIKTNEDDSENLSDDEPDWVIDTYRKSVLQEKVDLLNDYEKHLNEINTTSCKQLKTMCDLDKEHGRYKSVDPLRKKRKGARHLDVSLEEQDFIPRPYESDSENNDTSKSTRGGRISDKDYKLSELNSQIITLLDKIDGKVSRDPNNGDRFDVTNQNPVKIYYASRTYSQLGQFTSQLRLPSFPSSFRDKVPDEKVKYLPLASKKQLCINPKVMKWKTLEAINDACADLRHSKEGCIFYQNTNEWRHCPDTLALRDMIFSEIQDIEDLVPLGKSLGICPYYASREALPIAEVVTLPYQYLLSESTRSSLQINLENSIVIIDEAHNLIETINSIYSSQISLEDLKNCHKGIVTYFNKFKSRLNPGNRVNLLKLNSLLMTLIQFIVKNFKKIGQEIDPNDMFTGSNIDTLNIHKLLRYIKVSKIAYKIDTYNQALKEEESSKNENPIKETHKKSVSSQPLLFKVSQFLYCLTNLTSEGQFFFEKNYSIKYMLLEPSKPFESILNQAKCVVLAGGTMEPMSEFLSNLLPEVPSEDITTLSCNHVIPKENLQTYITNQPELEFTFEKRMSPSLVNNHLFQFFVDLSKAVPKKGGIVAFFPSYQYLAHVIQCWKQNDRFATLNNVRKIFYEAKDGDDILSGYSDSVAEGRGSLLLAIVGGKLSEGINFQDDLCRAVVMVGLPFPNIFSGELIVKRKHLAAKIMKSGGTEEEASRATKEFMENICMKAVNQSVGRAIRHANDYANIYLLDVRYNRPNFRKKLSRWVQDSINSEHTTHQVISSTRKFFSMRSLNSR |
| 335 | sp|Q9UJX2|CDC23\_HUMAN | MAASTSMVPVAVTAAVAPVLSINSDFSDLREIKKQLLLIAGLTRERGLLHSSKWSAELAFSLPALPLAELQPPPPITEEDAQDMDAYTLAKAYFDVKEYDRAAHFLHGCNSKKAYFLYMYSRYLSGEKKKDDETVDSLGPLEKGQVKNEALRELRVELSKKHQARELDGFGLYLYGVVLRKLDLVKEAIDVFVEATHVLPLHWGAWLELCNLITDKEMLKFLSLPDTWMKEFFLAHIYTELQLIEEALQKYQNLIDVGFSKSSYIVSQIAVAYHNIRDIDKALSIFNELRKQDPYRIENMDTFSNLLYVRSMKSELSYLAHNLCEIDKYRVETCCVIGNYYSLRSQHEKAALYFQRALKLNPRYLGAWTLMGHEYMEMKNTSAAIQAYRHAIEVNKRDYRAWYGLGQTYEILKMPFYCLYYYRRAHQLRPNDSRMLVALGECYEKLNQLVEAKKCYWRAYAVGDVEKMALVKLAKLHEQLTESEQAAQCYIKYIQDIYSCGEIVEHLEESTAFRYLAQYYFKCKLWDEASTCAQKCCAFNDTREEGKALLRQILQLRNQGETPTTEVPAPFFLPASLSANNTPTRRVSPLNLSSVTP |
| 336 | sp|Q00684|CDC14\_YEAST | MRRSVYLDNTIEFLRGRVYLGAYDYTPEDTDELVFFTVEDAIFYNSFHLDFGPMNIGHLYRFAVIFHEILNDPENANKAVVFYSSASTRQRANAACMLCCYMILVQAWTPHQVLQPLAQVDPPFMPFRDAGYSNADFEITIQDVVYGVWRAKEKGLIDLHSFNLESYEKYEHVEFGDFNVLTPDFIAFASPQEDHPKGYLATKSSHLNQPFKSVLNFFANNNVQLVVRLNSHLYNKKHFEDIGIQHLDLIFEDGTCPDLSIVKNFVGAAETIIKRGGKIAVHCKAGLGRTGCLIGAHLIYTYGFTANECIGFLRFIRPGMVVGPQQHWLYLHQNDFREWKYTTRISLKPSEAIGGLYPLISLEEYRLQKKKLKDDKRVAQNNIEGELRDLTMTPPSNGHGALSARNSSQPSTANNGSNSFKSSAVPQTSPGQPRKGQNGSNTIEDINNNRNPTSHANRKVVIESNNSDDESMQDTNGTSNHYPKVSRKKNDISSASSSRMEDNEPSATNINNAADDTILRQLLPKNRRVTSGRRTTSAAGGIRKISGSIKK |
| 337 | sp|P41208|CETN2\_HUMAN | MASNFKKANMASSSQRKRMSPKPELTEEQKQEIREAFDLFDADGTGTIDVKELKVAMRALGFEPKKEEIKKMISEIDKEGTGKMNFGDFLTVMTQKMSEKDTKEEILKAFKLFDDDETGKISFKNLKRVAKELGENLTDEELQEMIDEADRDGDGEVSEQEFLRIMKKTSLY |
| 338 | sp|P60334|CDO1\_MOUSE | MERTELLKPRTLADLIRILHELFAGDEVNVEEVQAVLEAYESNPAEWALYAKFDQYRYTRNLVDQGNGKFNLMILCWGEGHGSSIHDHTDSHCFLKLLQGNLKETLFDWPDKKSNEMIKKSERTLRENQCAYINDSIGLHRVENVSHTEPAVSLHLYSPPFDTCHAFDQRTGHKNKVTMTFHSKFGIRTPFTTSGSLENN |
| 339 | sp|Q9Y4C5|CHST2\_HUMAN | MSRSPQRALPPGALPRLLQAAPAAAPRALLPQWPRRPGRRWPASPLGMKVFRRKALVLCAGYALLLVLTMLNLLDYKWHKEPLQQCNPDGPLGAAAGAAGGSWGRPGPPPAGPPRAHARLDLRTPYRPPAAAVGAAPAAAAGMAGVAAPPGNGTRGTGGVGDKRQLVYVFTTWRSGSSFFGELFNQNPEVFFLYEPVWHVWQKLYPGDAVSLQGAARDMLSALYRCDLSVFQLYSPAGSGGRNLTTLGIFGAATNKVVCSSPLCPAYRKEVVGLVDDRVCKKCPPQRLARFEEECRKYRTLVIKGVRVFDVAVLAPLLRDPALDLKVIHLVRDPRAVASSRIRSRHGLIRESLQVVRSRDPRAHRMPFLEAAGHKLGAKKEGVGGPADYHALGAMEVICNSMAKTLQTALQPPDWLQGHYLVVRYEDLVGDPVKTLRRVYDFVGLLVSPEMEQFALNMTSGSGSSSKPFVVSARNATQAANAWRTALTFQQIKQVEEFCYQPMAVLGYERVNSPEEVKDLSKTLLRKPRL |
| 340 | sp|G5EFV5|CDK7\_CAEEL | MSRRYDTIKHLGEGQFANVYLAQDLESGECVAIKKIKLGSREEAKDGINRTAIREIKLLKEIHHDNIIGLRDVIGHRTSIQLVFDFMDTDLEHVIKDKEIILMPAHIKNITMQMLLGLEFLHVHWILHRDLKPNNLLMNKMGRVKLTDFGLARFFGSPNRNYTHQVVTRWYRAPELLFGARSYGVGIDIWSVGCIIAELLLRNPIFPGESDIDQLVKIFNILGCPTPETWPNMTEMNSYVIIKPQTEYMALNYYFSAAPQDLLDLMAGMWTFDPIKRLTCTQSLQMEYFRTQPFCCLDEELPLPKKQQPQKRSRRLDDDGTRPVRRLNFD |
| 341 | sp|P55272|CDN2B\_RAT | MLGGGSDAGLATAAARGQVETVRQLLEAGADPNAVNRFGRRPIQVMMMGSAQVAELLLLHGAEPNCADPATLTRPVHDAAREGFLDTLMVLHKAGARLDVCDAWGRLPVDLAEEQGHRDIARYLHAATGD |
| 342 | sp|P20294|CNTF\_RAT | MAFAEQTPLTLHRRDLCSRSIWLARKIRSDLTALMESYVKHQGLNKNINLDSVDGVPVASTDRWSEMTEAERLQENLQAYRTFQGMLTKLLEDQRVHFTPTEGDFHQAIHTLMLQVSAFAYQLEELMVLLEQKIPENEADGMPATVGDGGLFEKKLWGLKVLQELSQWTVRSIHDLRVISSHQMGISALESHYGAKDKQM |
| 343 | sp|Q9Y6A4|CFA20\_HUMAN | MFKNTFQSGFLSILYSIGSKPLQIWDKKVRNGHIKRITDNDIQSLVLEIEGTNVSTTYITCPADPKKTLGIKLPFLVMIIKNLKKYFTFEVQVLDDKNVRRRFRASNYQSTTRVKPFICTMPMRLDDGWNQIQFNLLDFTRRAYGTNYIETLRVQIHANCRIRRVYFSDRLYSEDELPAEFKLYLPVQNKAKQ |
| 344 | sp|Q07763|CD244\_MOUSE | MLGQAVLFTTFLLLRAHQGQDCPDSSEEVVGVSGKPVQLRPSNIQTKDVSVQWKKTEQGSHRKIEILNWYNDGPSWSNVSFSDIYGFDYGDFALSIKSAKLQDSGHYLLEITNTGGKVCNKNFQLLILDHVETPNLKAQWKPWTNGTCQLFLSCLVTKDDNVSYALYRGSTLISNQRNSTHWENQIDASSLHTYTCNVSNRASWANHTLNFTHGCQSVPSNFRFLPFGVIIVILVTLFLGAIICFCVWTKKRKQLQFSPKEPLTIYEYVKDSRASRDQQGCSRASGSPSAVQEDGRGQRELDRRVSEVLEQLPQQTFPGDRGTMYSMIQCKPSDSTSQEKCTVYSVVQPSRKSGSKKRNQNSSLSCTVYEEVGNPWLKAHNPARLSRRELENFDVYS |
| 345 | sp|O35495|CDK14\_MOUSE | MCDLIEPQPAEKIGKMKKLRRTLSESFSRIALKKEDTTFDEICVTKMSTRNCQGTDSVIKHLDTIPEDKKVRVQRTQSTFDPFEKPANQVKRVHSENNACINFKSSSAGKESPKVRRHSSPSSPTSPKFGKADSYEKLEKLGEGSYATVYKGKSKVNGKLVALKVIRLQEEEGTPFTAIREASLLKGLKHANIVLLHDIIHTKETLTLVFEYVHTDLCQYMDKHPGGLHPDNVKLFLFQLLRGLSYIHQRYILHRDLKPQNLLISDTGELKLADFGLARAKSVPSHTYSNEVVTLWYRPPDVLLGSTEYSTCLDMWGVGCIFVEMIQGVAAFPGMKDIQDQLERIFLVLGTPNEDTWPGVHSLPHFKPERFTVYSSKSLRQAWNKLSYVNHAEDLASKLLQCSPKNRLSAQAALSHEYFSDLPPRLWELTDMSSIFTVPNVRLQPEAGESMRAFGKNNSYGKSLSNSKH |
| 346 | sp|O55233|CER1\_MOUSE | MHLLLVQLLVLLPLGKADLCVDGCQSQGSLSFPLLERGRRDLHVANHEEAEDKPDLFVAVPHLMGTSLAGEGQRQRGKMLSRLGRFWKKPETEFYPPRDVESDHVSSGMQAVTQPADGRKVERSPLQEEAKRFWHRFMFRKGPAFQGVILPIKSHEVHWETCRTVPFNQTIAHEDCQKVVVQNNLCFGKCSSIRFPGEGADAHSFCSHCSPTKFTTVHLMLNCTSPTPVVKMVMQVEECQCMVKTERGEERLLLAGSQGSFIPGLPASKTNP |
| 347 | sp|P35567|CDK1A\_XENLA | MDEYTKIEKIGEGTYGVVYKGRHKATGQVVAMKKIRLENEEEGVPSTAIREISLLKELQHPNIVCLLDVLMQDSRLYLIFEFLSMDLKKYLDSIPSGQYIDTMLVKSYLYQILQGIVFCHSRRVLHRDLKPQNLLIDSKGVIKLADFGLARAFGIPVRVYTHEVVTLWYRAPEVLLGSVRYSTPVDVWSIGTIFAEIATKKPLFHGDSEIDQLFRIFRALGTPNNEVWPEVESLQDYKNSFPKWKGGSLSANVKNIDKDGLDLLAKMLIYDPAKRISARKALLHPYFDDLDKSSLPDNQIRN |
| 348 | sp|P25008|CCNC\_DROME | MAGNFWQSSHSQQWILDKPDLLRERQHDLLALNEDEYQKVFIFFANVIQVLGEQLKLRQQVIATATVYFKRFYARNSLKNIDPLLLAPTCILLASKVEEFGVISNSRLISICQSAIKTKFSYAYAQEFPYRTNHILECEFYLLENLDCCLIVYQPYRPLLQLVQDMGQEDQLLTLSWRIVNDSLRTDVCLLYPPYQIAIACLQIACVILQKDATKQWFAELNVDLDKVQEIVRAIVNLYELWKDWKEKDEIQMLLSKIPKPKPPPQR |
| 349 | sp|Q69Z26|CNTN4\_MOUSE | MRLPWELLVLQSFMLCLADDYTLHGPVFVQEPSHVMFPLDSEEKKVKLSCEVKGNPKPHIRWKINGTDVDIGMDFRYSVVDGSLLINNPNKTQDAGTYQCIATNSFGTIVSREAKLQFAYLENFKTRTRSTVSVRRGQGMVLLCGPPPHSGELSYAWIFNEYPSYQDNRRFVSQETGNLYIAKVEKSDVGNYTCVVTNTVTNHKVLGPPTPLILRNDGVMGEYEPKIEVQFPETVPAEKGTTVKLECFALGNPVPTILWRRADGKPIARKARRHKSNGILEIPNFQQEDAGSYECVAENSRGKNVAKGQLTFYAQPNWVQIINDIHVAMEESVFWECKANGRPKPTYRWLKNGDPLLTRDRIQIEQGTLNITIVNLSDAGMYQCVAENKHGVIFSSAELSVIAESPDFSRTLLKRVTLVKVGGEVVIECKPKASPRPVYTWRKGREILRENERITISEDGNLRIINVTKSDAGSYTCIATNHFGTASSTGNVIVKDPTKVMVPPSSMDVTVGESIVLPCQVTHDHSLDIVFTWTFNGHLIDFDKDGDHFERVGGQDSAGDLMIRNIQLKHAGKYVCMVQTSVDKLSVAADLIVRGPPGPPEAVTIDEITDTTAQLSWRPGPDNHSPITMYVIQARTPFSVGWQAVNTVPDLVDGKTFTATVVGLNPWVEYEFRTVAANVIGIGEPSRPSEKRRTEEALPEVTPANVSGGGGSKSELVITWETVPEELQNGRGFGYVVAFRPHGKMIWMLTVLASADASRYVFRNESVRPFSPFEVKVGVFNNKGEGPFSPTTLVYSAEEEPTKPPASIFARSLSATDIEVFWASPIGKNRGRIQGYEVKYWRHDDKEENAKKIRTVGNQTSTKITNLKGSALYHLSVKAYNSAGTGPSSATVNVTTRKPPPSQPPGNIIWNSSDSKIILNWDQVKALDNESEVKGYKVLYRWNRQSSTSVIETNKTSVELSLPFDEDYIIEIKPFSDGGDGSSSEQIRIPKISNSYARGSGASTSNACTLSAISTIMISLTARSSL |
| 350 | sp|Q7Z4T9|CFA91\_HUMAN | MSHAVTIEEPQAQPQVSQTRYRERSRAGSHISSNRAYDFLYDPLFIVSSEKDHTQANIQATLIRSRLRKVPRFKTMFSNLIHYPRYSLYWSKSDPVPPFISREWKGHKEKHREALRQLTTTDASFQMPKEVYEDPEVTGKNRYKYFERPFLPFFQQMPFNVVYAVSKAEPYTFPPTSTKHLSIPSKSTVGTQTDYRDADVQTDPYSAEYVVCQDSIPELLTLATLTWGRGLPAGQAEVEMIERAREKRAWEASLPALSDTSQFEKRRKMMNEMERKEWAFREQEIEKLQEIRLEVLKELLRKREENQNEVNMKHLNARWSKLQEGKEAKMAKIQRTHVSTIRKLVGKRKNIEGKLERRNIIKDYSDYASQVYGPLSRLGCFPDNNSEDFVVKNYYLNTYEGLVELESCLPDFVTQPQIRAPKPKVITTKAGFLKRAARLDYELAEVHKALLDKKNKVLEVKKPPRFLQRNPIPQPRLPTPTLEMTSNEEEEMEMAVIYLQKLLRGRVVQNMMFEGKEKRLELIQELRTCHALQEDEKLVKKAEKQVTLALQRQRNLHEHKVSLVENHLAGLEGRALADMFDFLSKELVRLQEERRIHAFVMLAERQRRVREAEESGRRQVEKQRLREEDEIFKEVVKVHHSTISSYLEDIILNTEANTAEEQARAEIEKMAEKINDIAYEMESRRTYLQSEEIVAELVYSFLIPEVQKYFVKEKVRNAQRKHILAAHQIIHSYTESMVQKKLTEGEQDEASNAAMLLEKETQNENNS |
| 351 | sp|Q06156|CND1\_YEAST | MSGFSLSEYLTKFQTTDRESYPRLQDPSRELNVIIDQLAVSPEQIDASPDSLEALIDLCHDFPHLTPKLQTQLSYLISSSLSNLSKDIKANLSSNVNFTEIGGLIPQWKRHLEEYGYLIQVLLTFLQDELHKVSSQSTNLNRSAKNSKNDSANVELFKRDCNQMENLLESITKLLEINLSKIFQTTPEKDLFIGLFTRPLFVLLEIEPVTKVSSLKMFIQRILAMCVKNHGQSSSIQSSLMTNLTYFLHLSVFNAELLKLLNDEYNYPQLTEDILKEISTRVFNAKDTTGPKAISNFLIKLSELSPGIMLRQMNLVITLLNNSSITLRCSVVEACGNIVAELAQDPQTMEHYKQQIAVLIELLEERFQDSNPYVRTKAIQGCSKICDLSSKFNKSKAKFTSLAVRSLQDRSSLVRRNSVKLLSKLLLKHPFKAIHGSQLRLSEWEEYLKGSESQLNSTLKKVESQETLNDTIERSLIEEEVEQDEGQCRTELEGSFNKSAELSRIENEVENINATNTSVLMKLKLMIVYYKDAISFIKEIHKSIELISNLLFSKNRNEVLESMDFLVLADAFDIELSEFGIKKMLHLVWMKGTNDEGTSISVHLIECYKQLFLTAPDSCNMQEKAAHIAKNLINLSIGASIADLASLEQLLGMMYEQKLIDQHVINILWAIYNSASKASMQKEQNVNNRDSEKGFSKEQIHGSIIILGMLSLADNEIALKGLESLLNIGLGAVGLKDLTLCRYSCLALERMVPKRSTIITKAINQELEDVAVKKLYAIIINYTKDNEYYPMCEQALSALFTISSKPDILATDLIREKTMMTFGKPEEEDSILSLEQSSRVVSLSQLLFIVGQVAIKTLVYLEKCEAEFKKRKIEAETRNGKVKNQGADVTNTTQDNGGDKELEMIGGTNEDDFTDAIQFVKENELLFGEKSILGKFCPIVEEIVSNSSRFSDPMLQRTATLCLEKLMCLSSKYCEKSLPLLITVMEKSPDPTIRSNAVLGLGDMAVCFNNLVDENTDYLYRRLHDENLMVQRTCLMTVTFLILAGQVKVKGQLGEMAKCLDNPDQGISDMCRLFFTELASKDNAIYNGFIDIFSNLSSDDLLGKESFKKIIKFLLTFIDKERHQKQLNEKLVGRLRKCETQKQWDDIAFVLNNLPYKNEDVTALLEQGFKVVSAKE |
| 352 | sp|P51792|CLCN3\_RAT | MESEQLFHRGYYRNSYNSITSASSDEELLDGAGAIMDFQTSEDDNLLDGDTAAGTHYTMTNGGSINSSTHLLDLLDEPIPGVGTYDDFHTIDWVREKCKDRERHRRINSKKKESAWEMTKSLYDAWSGWLVVTLTGLASGALAGLIDIAADWMTDLKEGICLSALWYNHEQCCWGSNETTFEERDKCPQWKTWAELIIGQAEGPGSYIMNYIMYIFWALSFAFLAVSLVKVFAPYACGSGIPEIKTILSGFIIRGYLGKWTLMIKTITLVLAVASGLSLGKEGPLVHVACCCGNIFSYLFPKYSTNEAKKREVLSAASAAGVSVAFGAPIGGVLFSLEEVSYYFPLKTLWRSFFAALVAAFVLRSINPFGNSRLVLFYVEYHTPWYLFELFPFILLGVFGGLWGAFFIRANIAWCRRRKSTKFGKYPVLEVIIVAAITAVIAFPNPYTRLNTSELIKELFTDCGPLESSSLCDYRNDMNASKIVDDIPDRPAGVGVYSAIWQLCLALIFKIIMTVFTFGIKVPSGLFIPSMAIGAIAGRIVGIAVEQLAYYHHDWFIFKEWCEVGADCITPGLYAMVGAAACLGGVTRMTVSLVVIVFELTGGLEYIVPLMAAVMTSKWVGDAFGREGIYEAHIRLNGYPFLDAKEEFTHTTLAADVMRPRRSDPPLAVLTQDNMTVDDIENMINETSYNGFPVIMSKESQRLVGFALRRDLTIAIESARKKQEGVVGSSRVCFAQHTPSLPAESPRPLKLRSILDMSPFTVTDHTPMEIVVDIFRKLGLRQCLVTHNGRLLGIITKKDILRHMAQTANQDPASIMFN |
| 353 | sp|Q64359|CNGA4\_RAT | MSQDGKVKTTESTPPAPTKARKWLPVLDPSGDYYYWWLNTMVFPIMYNLIIVVCRACFPDLQHSYLVAWFVLDYTSDLLYLLDIGVRFHTGFLEQGILVVDKGMIASRYVRTWSFLLDLASLVPTDAAYVQLGPHIPTLRLNRFLRVPRLFEAFDRTETRTAYPNAFRIAKLMLYIFVVIHWNSCLYFALSRYLGFGRDAWVYPDPAQPGFERLRRQYLYSFYFSTLILTTVGDTPLPDREEEYLFMVGDFLLAVMGFATIMGSMSSVIYNMNTADAAFYPDHALVKKYMKLQHVNKRLERRVIDWYQHLQINKKMTNEVAILQHLPERLRAEVAVSVHLSTLSRVQIFQNCEASLLEELVLKLQPQTYSPGEYVCRKGDIGREMYIIREGQLAVVADDGVTQYAVLGAGLYFGEISIINIKGNMSGNRRTANIKSLGYSDLFCLSKEDLREVLSEYPQAQAVMEEKGREILLKMNKLDVNAEAAEIALQEATESRLKGLDQQLDDLQTKFARLLAELESSALKIAYRIERLEWQTREWPMPEDMGEADDEAEPGEGTSKDGEGKAGQAGPSGIE |
| 354 | sp|Q96LI5|CNO6L\_HUMAN | MRLIGMPKEKYDPPDPRRIYTIMSAEEVANGKKSHWAELEISGRVRSLSTSLWSLTHLTALHLNDNYLSRIPPDIAKLHNLVYLDLSSNKLRSLPAELGNMVSLRELLLNNNLLRVLPYELGRLFQLQTLGLKGNPLSQDILNLYQDPDGTRKLLNFMLDNLAVHPEQLPPRPWITLKERDQILPSASFTVMCYNVLCDKYATRQLYGYCPSWALNWEYRKKGIMEEIVNCDADIISLQEVETEQYFTLFLPALKERGYDGFFSPKSRAKIMSEQERKHVDGCAIFFKTEKFTLVQKHTVEFNQVAMANSDGSEAMLNRVMTKDNIGVAVVLEVHKELFGAGMKPIHAADKQLLIVANAHMHWDPEYSDVKLIQTMMFVSEVKNILEKASSRPGSPTADPNSIPLVLCADLNSLPDSGVVEYLSNGGVADNHKDFKELRYNECLMNFSCNGKNGSSEGRITHGFQLKSAYENNLMPYTNYTFDFKGVIDYIFYSKTHMNVLGVLGPLDPQWLVENNITGCPHPHIPSDHFSLLTQLELHPPLLPLVNGVHLPNRR |
| 355 | sp|P0A9J8|CMPDT\_ECOLI | MTSENPLLALREKISALDEKLLALLAERRELAVEVGKAKLLSHRPVRDIDRERDLLERLITLGKAHHLDAHYITRLFQLIIEDSVLTQQALLQQHLNKINPHSARIAFLGPKGSYSHLAARQYAARHFEQFIESGCAKFADIFNQVETGQADYAVVPIENTSSGAINDVYDLLQHTSLSIVGEMTLTIDHCLLVSGTTDLSTINTVYSHPQPFQQCSKFLNRYPHWKIEYTESTSAAMEKVAQAKSPHVAALGSEAGGTLYGLQVLERIEANQRQNFTRFVVLARKAINVSDQVPAKTTLLMATGQQAGALVEALLVLRNHNLIMTRLESRPIHGNPWEEMFYLDIQANLESAEMQKALKELGEITRSMKVLGCYPSENVVPVDPT |
| 356 | sp|P56750|CLD17\_HUMAN | MAFYPLQIAGLVLGFLGMVGTLATTLLPQWRVSAFVGSNIIVFERLWEGLWMNCIRQARVRLQCKFYSSLLALPPALETARALMCVAVALSLIALLIGICGMKQVQCTGSNERAKAYLLGTSGVLFILTGIFVLIPVSWTANIIIRDFYNPAIHIGQKRELGAALFLGWASAAVLFIGGGLLCGFCCCNRKKQGYRYPVPGYRVPHTDKRRNTTMLSKTSTSYV |
| 357 | sp|Q96DG6|CMBL\_HUMAN | MANEAYPCPCDIGHRLEYGGLGREVQVEHIKAYVTKSPVDAGKAVIVIQDIFGWQLPNTRYIADMISGNGYTTIVPDFFVGQEPWDPSGDWSIFPEWLKTRNAQKIDREISAILKYLKQQCHAQKIGIVGFCWGGTAVHHLMMKYSEFRAGVSVYGIVKDSEDIYNLKNPTLFIFAENDVVIPLKDVSLLTQKLKEHCKVEYQIKTFSGQTHGFVHRKREDCSPADKPYIDEARRNLIEWLNKYM |
| 358 | sp|O88551|CLD1\_MOUSE | MANAGLQLLGFILASLGWIGSIVSTALPQWKIYSYAGDNIVTAQAIYEGLWMSCVSQSTGQIQCKVFDSLLNLNSTLQATRALMVIGILLGLIAIFVSTIGMKCMRCLEDDEVQKMWMAVIGGIIFLISGLATLVATAWYGNRIVQEFYDPLTPINARYEFGQALFTGWAAASLCLLGGVLLSCSCPRKTTSYPTPRPYPKPTPSSGKDYV |
| 359 | sp|Q9VEV4|CL16A\_DROME | MFRSRSWFGGPWGGRPKNRLSLEHLKYLYSILEKNTTVSESNRGLLVESLRCIAEILIWGDQHDSLVFDFFLEKNMLSYFLHIMRQKSGGSSFVCVQLLQTLNILFENIRNETSLYYLLSNNHVNSIMVHKFDFSDEDVMGYYILFLKTLSLKLNTHTIHFFYNEHTNDFPLYTEAIKFFNHPESMVRIAVRTISLNVYKVQNPSMLRFIRDKTAAPYFSNLVWFIGKHILELDTCVRTDIDHQSNQKLSNLVAEHLDHLHYLSDILLLEIKDLNAVLTEHLLHKLFVPLYIFSLTPAPPPPSLAVVTQNLAAVLNRNVDIDIQEMHNPRVSSIVALFLLSLVFLVVSHAPLVHALAWVILNGDHSVFKEGAAEILNSYVEHREVVVPGFGEPDESLEQALDTVTGQSSSSSYALSEDSGVESSSPATTELDSQADAVEAEQIKLRNITDEEKQLLQKSSSSTKADFAEMAKPFLDTVLHALDCTENDYLALLSLCLIYAMSHNRGIKNEWFEQVLAKSTRGAFSYKTALIEHLLNIITQSSQPSSRIRLITVEIALELLVTFTRPSSDDSRCITAAQQDLLFSARNQSMVVIRNFYKSEDIFLDLFEDEYNEMRKAQLNVEFLCMDSTILLPPTGTPLTGINFTRRLPCGEVEKARRAIRVYFLLRRTCQKFLNEKESLLPLTNVVNLVQVENVLDLNNSDLIACTVVAKDSSKQRRFLVIDALQLILVEPDAKLLGWGVAKFVGFLQDVEVQGDKDDSRCLHITVHRGGVTHNRTPLLSAKFLFDDHIRCMAAKQRLTKGRSKARQKKMYQIAQLIEIPGQMDSPVYAVGGTMVASSSGGSGNSSGSSSRSSHHRPMFSTANRVPGFAAVLRGSNSAGVSRTQMAPNRSIEGIRNESAGRSRRRSPSSTSGSNLRADHSDRERSPSVSMGSHSSSQSRENSQPRSTGNRSRESSPRMPRPRSEEIPLEDFQHSRNNSPHSRGNPSPASRSHTPIRVLHYDQLSGHSGSPREASLGGTNALLSQLNGLNREVLPTQSSEETSFIGSDGNEATGGSEGRRRGAIETV |
| 360 | sp|Q9H6B4|CLMP\_HUMAN | MSLLLLLLLVSYYVGTLGTHTEIKRVAEEKVTLPCHHQLGLPEKDTLDIEWLLTDNEGNQKVVITYSSRHVYNNLTEEQKGRVAFASNFLAGDASLQIEPLKPSDEGRYTCKVKNSGRYVWSHVILKVLVRPSKPKCELEGELTEGSDLTLQCESSSGTEPIVYYWQRIREKEGEDERLPPKSRIDYNHPGRVLLQNLTMSYSGLYQCTAGNEAGKESCVVRVTVQYVQSIGMVAGAVTGIVAGALLIFLLVWLLIRRKDKERYEEEERPNEIREDAEAPKARLVKPSSSSSGSRSSRSGSSSTRSTANSASRSQRTLSTDAAPQPGLATQAYSLVGPEVRGSEPKKVHHANLTKAETTPSMIPSQSRAFQTV |
| 361 | sp|P32738|CLAT\_RAT | MPILEKAPQKMPVKASSWEELDLPKLPVPPLQQTLATYLQCMQHLVPEEQFRKSQAIVKRFGAPGGLGETLQEKLLERQEKTANWVSEYWLNDMYLNNRLALPVNSSPAVIFARQHFQDTNDQLRFAACLISGVLSYKTLLDSHSLPTDWAKGQLSGQPLCMKQYYRLFSSYRLPGHTQDTLVAQKSSIMPEPEHVIVACCNQFFVLDVVINFRRLSEGDLFTQLRKIVKMASNEDERLPPIGLLTSDGRSEWAKARTVLLKDSTNRDSLDMIERCICLVCLDGPGTGELSDTHRALQLLHGGGCSLNGANRWYDKSLQFVVGRDGTCGVVCEHSPFDGIVLVQCTEHLLKHMMTSNKKLVRADSVSELPAPRRLRLKCSPETQGHLASSAEKLQRIVKNLDFIVYKFDNYGKTFIKKQKYSPDGFIQVALQLAYYRLYQRLVPTYESASIRRFQEGRVDNIRSATPEALAFVQAMTDHKAAMPASEKLQLLQTAMQAHKQYTVMAITGMAIDNHLLALRELARDLCKEPPEMFMDETYLMSNRFVLSTSQVPTTMEMFCCYGPVVPNGNGACYNPQPEAITFCISSFHSCKETSSVEFAEAVGASLVDMRDLCSSRQPADSKPPAPKEKARGPSQAKQS |
| 362 | sp|B9EHT4|CLIP3\_MOUSE | MTKTDPAPMAPPPRGEEEEEEEEDEPVPEAPSPTQERRQKPVVHPSAPAPLPKDYAFTFFDPNDPACQEILFDPKTTIPELFAIVRQWVPQVQHKIDVIGNEILRRGCHVNDRDGLTDMTLLHYACKAGAHGVGDPAAAVRLSQQLLALGADVTLRSRWTNMNALHYAAYFDVPDLVRVLLKGARPRVVNSTCSDFNHGSALHIAASNLCLGAAKCLLEHGANPALRNRKGQVPAEVVPDPMDMSLDKAEAALVAKELRTLLEEAVPLSCTLPKVTLPNYDNVPGNLMLSALGLRLGDRVLLDGQKTGTLRFCGTTEFASGQWVGVELDEPEGKNDGSVGGVRYFICPPKQGLFASVSKVSKAVDAPPSSVTSTPRTPRMDFSRVTGKGRREHKGKKKSPSSPSLGSLQQREGAKAEVGDQVLVAGQKQGIVRFYGKTDFAPGYWYGIELDQPTGKHDGSVFGVRYFTCAPRHGVFAPASRIQRIGGSTDPPGDSVGAKKVHQVTMTQPKRTFTTVRTPKDIASENSISRLLFCCWFPWMLRAEMQS |
| 363 | sp|P14779|CPXB\_BACMB | MTIKEMPQPKTFGELKNLPLLNTDKPVQALMKIADELGEIFKFEAPGRVTRYLSSQRLIKEACDESRFDKNLSQALKFVRDFAGDGLFTSWTHEKNWKKAHNILLPSFSQQAMKGYHAMMVDIAVQLVQKWERLNADEHIEVPEDMTRLTLDTIGLCGFNYRFNSFYRDQPHPFITSMVRALDEAMNKLQRANPDDPAYDENKRQFQEDIKVMNDLVDKIIADRKASGEQSDDLLTHMLNGKDPETGEPLDDENIRYQIITFLIAGHETTSGLLSFALYFLVKNPHVLQKAAEEAARVLVDPVPSYKQVKQLKYVGMVLNEALRLWPTAPAFSLYAKEDTVLGGEYPLEKGDELMVLIPQLHRDKTIWGDDVEEFRPERFENPSAIPQHAFKPFGNGQRACIGQQFALHEATLVLGMMLKHFDFEDHTNYELDIKETLTLKPEGFVVKAKSKKIPLGGIPSPSTEQSAKKVRKKAENAHNTPLLVLYGSNMGTAEGTARDLADIAMSKGFAPQVATLDSHAGNLPREGAVLIVTASYNGHPPDNAKQFVDWLDQASADEVKGVRYSVFGCGDKNWATTYQKVPAFIDETLAAKGAENIADRGEADASDDFEGTYEEWREHMWSDVAAYFNLDIENSEDNKSTLSLQFVDSAADMPLAKMHGAFSTNVVASKELQQPGSARSTRHLEIELPKEASYQEGDHLGVIPRNYEGIVNRVTARFGLDASQQIRLEAEEEKLAHLPLAKTVSVEELLQYVELQDPVTRTQLRAMAAKTVCPPHKVELEALLEKQAYKEQVLAKRLTMLELLEKYPACEMKFSEFIALLPSIRPRYYSISSSPRVDEKQASITVSVVSGEAWSGYGEYKGIASNYLAELQEGDTITCFISTPQSEFTLPKDPETPLIMVGPGTGVAPFRGFVQARKQLKEQGQSLGEAHLYFGCRSPHEDYLYQEELENAQSEGIITLHTAFSRMPNQPKTYVQHVMEQDGKKLIELLDQGAHFYICGDGSQMAPAVEATLMKSYADVHQVSEADARLWLQQLEEKGRYAKDVWAG |
| 364 | sp|O15516|CLOCK\_HUMAN | MLFTVSCSKMSSIVDRDDSSIFDGLVEEDDKDKAKRVSRNKSEKKRRDQFNVLIKELGSMLPGNARKMDKSTVLQKSIDFLRKHKEITAQSDASEIRQDWKPTFLSNEEFTQLMLEALDGFFLAIMTDGSIIYVSESVTSLLEHLPSDLVDQSIFNFIPEGEHSEVYKILSTHLLESDSLTPEYLKSKNQLEFCCHMLRGTIDPKEPSTYEYVKFIGNFKSLNSVSSSAHNGFEGTIQRTHRPSYEDRVCFVATVRLATPQFIKEMCTVEEPNEEFTSRHSLEWKFLFLDHRAPPIIGYLPFEVLGTSGYDYYHVDDLENLAKCHEHLMQYGKGKSCYYRFLTKGQQWIWLQTHYYITYHQWNSRPEFIVCTHTVVSYAEVRAERRRELGIEESLPETAADKSQDSGSDNRINTVSLKEALERFDHSPTPSASSRSSRKSSHTAVSDPSSTPTKIPTDTSTPPRQHLPAHEKMVQRRSSFSSQSINSQSVGSSLTQPVMSQATNLPIPQGMSQFQFSAQLGAMQHLKDQLEQRTRMIEANIHRQQEELRKIQEQLQMVHGQGLQMFLQQSNPGLNFGSVQLSSGNSSNIQQLAPINMQGQVVPTNQIQSGMNTGHIGTTQHMIQQQTLQSTSTQSQQNVLSGHSQQTSLPSQTQSTLTAPLYNTMVISQPAAGSMVQIPSSMPQNSTQSAAVTTFTQDRQIRFSQGQQLVTKLVTAPVACGAVMVPSTMLMGQVVTAYPTFATQQQQSQTLSVTQQQQQQSSQEQQLTSVQQPSQAQLTQPPQQFLQTSRLLHGNPSTQLILSAAFPLQQSTFPQSHHQQHQSQQQQQLSRHRTDSLPDPSKVQPQ |
| 365 | sp|P02489|CRYAA\_HUMAN | MDVTIQHPWFKRTLGPFYPSRLFDQFFGEGLFEYDLLPFLSSTISPYYRQSLFRTVLDSGISEVRSDRDKFVIFLDVKHFSPEDLTVKVQDDFVEIHGKHNERQDDHGYISREFHRRYRLPSNVDQSALSCSLSADGMLTFCGPKIQTGLDATHAERAIPVSREEKPTSAPSS |
| 366 | sp|O95196|CSPG5\_HUMAN | MGRAGGGGPGRGPPPLLLFLGAALVLASGAVPAREAGSAVEAEELVKGSPAWEPPANDTREEAGPPAAGEDEASWTAPGGELAGPEEVLQESAAVTGTAWLEADSPGLGGVTAEAGSGDAQALPATLQAPHEVLGQSIMPPAIPEATEASGPPSPTPGDKLSPASELPKESPLEVWLNLGGSTPDPQGPELTYPFQGTLEPQPASDIIDIDYFEGLDGEGRGADLGSFPGSPGTSENHPDTEGETPSWSLLDLYDDFTPFDESDFYPTTSFYDDLDEEEEEEEDDKDAVGGGDLEDENELLVPTGKPGLGPGTGQPTSRWHAVPPQHTLGSVPGSSIALRPRPGEPGRDLASSENGTECRSGFVRHNGSCRSVCDLFPSYCHNGGQCYLVENIGAFCRCNTQDYIWHKGMRCESIITDFQVMCVAVGSAALVLLLLFMMTVFFAKKLYLLKTENTKLRRTNKFRTPSELHNDNFSLSTIAEGSHPNVRKLCNTPRTSSPHARALAHYDNVICQDDPSAPHKIQEVLKSCLKEEESFNIQNSMSPKLEGGKGDQADLDVNCLQNNLT |
| 367 | sp|Q63400|CLD3\_RAT | MSMGLEITGTSLAVLGWLCTIVCCALPMWRVSAFIGSSIITAQITWEGLWMNCVVQSTGQMQCKMYDSLLALPQDLQAARALIVVSILLAAFGLLVALVGAQCTNCVQDETAKAKITIVAGVLFLLAAVLTLVPVSWSANTIIRDFYNPLVPEAQKREMGTGLYVGWAAAALQLLGGALLCCSCPPREKYAPTKILYSAPRSTGPGTGTGTAYDRKDYV |
| 368 | sp|P24623|CRYAA\_RAT | MDVTIQHPWFKRALGPFYPSRLFDQFFGEGLFEYDLLPFLSSTISPYYRQSLFRTVLDSGISELMTHMWFVMHQPHAGNPKNNPGKVRSDRDKFVIFLDVKHFSPEDLTVKVLEDFVEIHGKHNERQDDHGYISREFHRRYRLPSNVDQSALSCSLSADGMLTFSGPKVQSGLDAGHSERAIPVSREEKPSSAPSS |
| 369 | sp|Q9SAA9|CP511\_ARATH | MELDSENKLLKTGLVIVATLVIAKLIFSFFTSDSKKKRLPPTLKAWPPLVGSLIKFLKGPIIMLREEYPKLGSVFTVNLVHKKITFLIGPEVSAHFFKASESDLSQQEVYQFNVPTFGPGVVFDVDYSVRQEQFRFFTEALRVNKLKGYVDMMVTEAEDYFSKWGESGEVDIKVELERLIILTASRCLLGREVRDQLFDDVSALFHDLDNGMLPISVLFPYLPIPAHRRRDRAREKLSEIFAKIIGSRKRSGKTENDMLQCFIESKYKDGRQTTESEVTGLLIAALFAGQHTSSITSTWTGAYLMRYKEYFSAALDEQKNLIAKHGDKIDHDILSEMDVLYRCIKEALRLHPPLIMLMRASHSDFSVTARDGKTYDIPKGHIVATSPAFANRLPHIFKDPDTYDPERFSPGREEDKAAGAFSYIAFGGGRHGCLGEPFAYLQIKAIWSHLLRNFELELVSPFPEIDWNAMVVGVKGNVMVRYKRRQLS |
| 370 | sp|P32623|CRH2\_YEAST | MAIVNSWLICLVSIFSFVVRVEAATFCNATQACPEDKPCCSQYGECGTGQYCLNNCDVRYSFSHDSCMPVPICKSSSTKFKDYSSKLGNANTFLGNVSEADWLYTGDVLDYDDEESLILAMPKNSGGTVLSSTRAVWYGKVSARIKTSHLAGVVTGFILYSGAGDELDYEFVGADLETAQTNFYWESVLNYTNSANISTTDTFENYHTYELDWHEDYVTWSIDGVVGRTLYKNETYNATTQKYQYPQTPSKVDISIWPGGNSTNAPGTIAWSGGEINWDASDISNPGYYYAIVNEVNITCYDPPSDTKKNGTSAYVYTSSSEFLAKDIAITDDEVMMDSDEGSGLDPHKGATTSSTQKSSSSTATSSSKTSSDHSSSTKKSSKTSSTASSSSSSSSSSSSSSSTATKNGDKVVSSVSSSVTSQTQTTSSVSGSASSSTSSMSGNNAGANVAANWRLTVLCVILGYVL |
| 371 | sp|Q6PUV4|CPLX2\_HUMAN | MDFVMKQALGGATKDMGKMLGGEEEKDPDAQKKEEERQEALRQQEEERKAKHARMEAEREKVRQQIRDKYGLKKKEEKEAEEKAALEQPCEGSLTRPKKAIPAGCGDEEEEEEESILDTVLKYLPGPLQDMFKK |
| 372 | sp|O75177|CREST\_HUMAN | MSVAFASARPRGKGEVTQQTIQKMLDENHHLIQCILEYQSKGKTAECTQYQQILHRNLVYLATIADSNQNMQSLLPAPPTQNMNLGPGALTQSGSSQGLHSQGSLSDAISTGLPPSSLLQGQIGNGPSHVSMQQTAPNTLPTTSMSISGPGYSHAGPASQGVPMQGQGTIGNYVSRTNINMQSNPVSMMQQQAATSHYSSAQGGSQHYQGQSSIAMMGQGSQGSSMMGQRPMAPYRPSQQGSSQQYLGQEEYYGEQYSHSQGAAEPMGQQYYPDGHGDYAYQQSSYTEQSYDRSFEESTQHYYEGGNSQYSQQQAGYQQGAAQQQTYSQQQYPSQQSYPGQQQGYGSAQGAPSQYPGYQQGQGQQYGSYRAPQTAPSAQQQRPYGYEQGQYGNYQQ |
| 373 | sp|P9WPP9|CP51\_MYCTU | MSAVALPRVSGGHDEHGHLEEFRTDPIGLMQRVRDECGDVGTFQLAGKQVVLLSGSHANEFFFRAGDDDLDQAKAYPFMTPIFGEGVVFDASPERRKEMLHNAALRGEQMKGHAATIEDQVRRMIADWGEAGEIDLLDFFAELTIYTSSACLIGKKFRDQLDGRFAKLYHELERGTDPLAYVDPYLPIESFRRRDEARNGLVALVADIMNGRIANPPTDKSDRDMLDVLIAVKAETGTPRFSADEITGMFISMMFAGHHTSSGTASWTLIELMRHRDAYAAVIDELDELYGDGRSVSFHALRQIPQLENVLKETLRLHPPLIILMRVAKGEFEVQGHRIHEGDLVAASPAISNRIPEDFPDPHDFVPARYEQPRQEDLLNRWTWIPFGAGRHRCVGAAFAIMQIKAIFSVLLREYEFEMAQPPESYRNDHSKMVVQLAQPACVRYRRRTGV |
| 374 | sp|Q05603|COBT\_SALTY | MQTLHALLRDIPAPDAEAMARAQQHIDGLLKPPGSLGRLETLAVQLAGMPGLNGTPQVGEKAVLVMCADHGVWDEGVAVSPKIVTAIQAANMTRGTTGVCVLAAQAGAKVHVIDVGIDAEPIPGVVNMRVARGCGNIAVGPAMSRLQAEALLLEVSRYTCDLAQRGVTLFGVGELGMANTTPAAAMVSVFTGSDAKEVVGIGANLPPSRIDNKVDVVRRAIAINQPNPRDGIDVLSKVGGFDLVGMTGVMLGAARCGLPVLLDGFLSYSAALAACQIAPAVRPYLIPSHFSAEKGARIALAHLSMEPYLHMAMRLGEGSGAALAMPIVEAACAMFHNMGELAASNIVLPEGNANAT |
| 375 | sp|P05181|CP2E1\_HUMAN | MSALGVTVALLVWAAFLLLVSMWRQVHSSWNLPPGPFPLPIIGNLFQLELKNIPKSFTRLAQRFGPVFTLYVGSQRMVVMHGYKAVKEALLDYKDEFSGRGDLPAFHAHRDRGIIFNNGPTWKDIRRFSLTTLRNYGMGKQGNESRIQREAHFLLEALRKTQGQPFDPTFLIGCAPCNVIADILFRKHFDYNDEKFLRLMYLFNENFHLLSTPWLQLYNNFPSFLHYLPGSHRKVIKNVAEVKEYVSERVKEHHQSLDPNCPRDLTDCLLVEMEKEKHSAERLYTMDGITVTVADLFFAGTETTSTTLRYGLLILMKYPEIEEKLHEEIDRVIGPSRIPAIKDRQEMPYMDAVVHEIQRFITLVPSNLPHEATRDTIFRGYLIPKGTVVVPTLDSVLYDNQEFPDPEKFKPEHFLNENGKFKYSDYFKPFSTGKRVCAGEGLARMELFLLLCAILQHFNLKPLVDPKDIDLSPIHIGFGCIPPRYKLCVIPRS |
| 376 | sp|Q96JB2|COG3\_HUMAN | MAEAALLLLPEAAAERDAREKLALWDRRPDTTAPLTDRQTDSVLELKAAAENLPVPAELPIEDLCSLTSQSLPIELTSVVPESTEDILLKGFTSLGMEEERIETAQQFFSWFAKLQTQMDQDEGTKYRQMRDYLSGFQEQCDAILNDVNSALQHLESLQKQYLFVSNKTGTLHEACEQLLKEQSELVDLAENIQQKLSYFNELETINTKLNSPTLSVNSDGFIPMLAKLDDCITYISSHPNFKDYPIYLLKFKQCLSKALHLMKTYTVNTLQTLTSQLLKRDPSSVPNADNAFTLFYVKFRAAAPKVRTLIEQIELRSEKIPEYQQLLNDIHQCYLDQRELLLGPSIACTVAELTSQNNRDHCALVRSGCAFMVHVCQDEHQLYNEFFTKPTSKLDELLEKLCVSLYDVFRPLIIHVIHLETLSELCGILKNEVLEDHVQNNAEQLGAFAAGVKQMLEDVQERLVYRTHIYIQTDITGYKPAPGDLAYPDKLVMMEQIAQSLKDEQKKVPSEASFSDVHLEEGESNSLTKSGSTESLNPRPQTTISPADLHGMWYPTVRRTLVCLSKLYRCIDRAVFQGLSQEALSACIQSLLGASESISKNKTQIDGQLFLIKHLLILREQIAPFHTEFTIKEISLDLKKTRDAAFKILNPMTVPRFFRLNSNNALIEFLLEGTPEIREHYLDSKKDVDRHLKSACEQFIQQQTKLFVEQLEEFMTKVSALKTMASQGGPKYTLSQQPWAQPAKVNDLAATAYKTIKTKLPVTLRSMSLYLSNKDTEFILFKPVRNNIQQVFQKFHALLKEEFSPEDIQIIACPSMEQLSLLLLVSK |
| 377 | sp|P07315|CRGC\_HUMAN | MGKITFYEDRAFQGRSYETTTDCPNLQPYFSRCNSIRVESGCWMLYERPNYQGQQYLLRRGEYPDYQQWMGLSDSIRSCCLIPQTVSHRLRLYEREDHKGLMMELSEDCPSIQDRFHLSEIRSLHVLEGCWVLYELPNYRGRQYLLRPQEYRRCQDWGAMDAKAGSLRRVVDLY |
| 378 | sp|P78358|CTG1B\_HUMAN | MQAEGRGTGGSTGDADGPGGPGIPDGPGGNAGGPGEAGATGGRGPRGAGAARASGPGGGAPRGPHGGAASGLNGCCRCGARGPESRLLEFYLAMPFATPMEAELARRSLAQDAPPLPVPGVLLKEFTVSGNILTIRLTAADHRQLQLSISSCLQQLSLLMWITQCFLPVFLAQPPSGQRR |
| 379 | sp|Q9WVL7|CXL15\_MOUSE | MAAQGWSMLLLAVLNLGIFVRPCDTQELRCLCIQEHSEFIPLKLIKNIMVIFETIYCNRKEVIAVPKNGSMICLDPDAPWVKATVGPITNRFLPEDLKQKEFPPAMKLLYSVEHEKPLYLSFGRPENKRIFPFPIRETSRHFADLAHNSDRNFLRDSSEVSLTGSDA |
| 380 | sp|O88797|DAB2\_RAT | MSNEVETSTTNGQPDQQAAPKAPSKKEKKKGSEKTDEYLLARFKGDGVKYKAKLIGIDDVPDARGDKMSQDSMMKLKGMAAAGRSQGQHKQRIWVNISLSGIKIIDEKTGVIEHEHPVNKISFIARDVTDNRAFGYVCGGEGQHQFFAIKTGQQAEPLVVDLKDLFQVIYNVKKKEEEKKKVEEANKAEENGSEALMTLDDQANKLKLGVDQMDLFGDMSTPPDLNNPTESRDILLVDLNSEIDTNQNSLRENPFLTNGVTSCSLPRPKPQASFLPESAFSANLNFFPTPNPDPFRDDPFAQPDQSAPSSFHSLTSADQKKANPGSLSTPQSKGPLNGDTDYFGQQFDQISNRTGKQEAQGGPWPYPSSQTQQAVRTQNGVSEKEQNGFHIKSSPNPFVGSPPKGLSVPNGVKQDLESSVQSSAHDSIAIIPPPQSTKPGRGRRTAKSSANDLLASDIFASEPPGQMSPTGQPAVPQANFMDLFKTSAPAPMGSGPLVGLGTVPVTPPQAGPWTPVVFTPSTTVVPGAIISGQPSGFGQPLVFGTTPAVQVWNQPSSFATAASPPPPAVWCPTTSVAPNTWSSTSPLGNPFQSSNIFPPSTISTQSFPQPMMSSVLVTPPQPPPRNGPLKDTLSDAFTGLDPLGDKEVKEVKEMFKDFQLRQPPLVPSRKGETPSSGTSSAFSSYFNNKVGIPQEHVDHDDFDANQLLNKINEPPKPAPRQGVLSGTKSADNSLENPFSKGFSSTNPSVVSQPASSDAHRSPFGNPFA |
| 381 | sp|Q17389|CUL1\_CAEEL | MTNSEPRRMTCDSEVVWKKLQDGLDVAYRRENMAPKDYMTLYTSVYDYCTSITLSTSRRDGEDGRAESSTPARTAGADFVGHEMYQRVEEYVKAYVIAVCEKGAELSGEDLLKYYTTEWENFRISSKVMDGIFAYLNRHWIRRELDEGHENIYMVYTLALVVWKRNLFNDLKDKVIDAMLELIRSERTGSMINSRYISGVVECLVELGVDDSETDAKKDAETKKLAVYKEFFEVKFLEATRGFYTQEAANFLSNGGNVTDYMIKVETRLNQEDDRCQLYLNSSTKTPLATCCESVLISNQLDFLQRHFGGLLVDKRDDDLSRMFKLCDRVPNGLDELRKSLENHIAKEGHQALERVAMEAATDAKLYVKTLLEVHERYQSLVNRSFKNEPGFMQSLDKAATSFINNNAVTKRAPPQAQLTKSAELLARYCDQLLRKSSKMPDEAELEELQTKIMVVFKYIDDKDVFSKFYTKMFSKRLISELSASDEAEANFITKLKSMCGYEYTARLSKMVNDTQVSKDLTADFKEKKADMLGQKSVEFNVLVLSSGSWPTFPTTPITLPQQLSKTIEIFGQFYNEKFNGRRLTWVYSQSRGEITSTAFPKKYVFTATTAQMCTMLLFNEQDSYTVEQIAAATKMDEKSAPAIVGSLIKNLVLKADTELQKEDEVPMTATVSLNKAYMNKKVRVDLSKFTMKQDAVRDTENVQKNVEEDRKSVISACIVRIMKTRKRVQHQQLMTEVITQLSGRFKPKVEMIKRCIGSLIEKEYMLRTEGQKDLYEYLA |
| 382 | sp|Q0VCX4|CTNB1\_BOVIN | MATQADLMELDMAMEPDRKAAVSHWQQQSYLDSGIHSGATTTAPSLSGKGNPEEEDVDTTQVLYEWEQGFSQSFTQEQVADIDGQYAMTRAQRVRAAMFPETLDEGMQIPSTQFDAAHPTNVQRLAEPSQMLKHAVVNLINYQDDAELATRAIPELTKLLNDEDQVVVNKAAVMVHQLSKKEASRHAIMRSPQMVSAIVRTMQNTNDVETARCTAGTLHNLSHHREGLLAIFKSGGIPALVKMLGSPVDSVLFYAITTLHNLLLHQEGAKMAVRLAGGLQKMVALLNKTNVKFLAITTDCLQILAYGNQESKLIILASGGPQALVNIMRTYTYEKLLWTTSRVLKVLSVCSSNKPAIVEAGGMQALGLHLTDPSQRLVQNCLWTLRNLSDAATKQEGMEGLLGTLVQLLGSDDINVVTCAAGILSNLTCNNYKNKMMVCQVGGIEALVRTVLRAGDREDITEPAICALRHLTSRHQEAEMAQNAVRLHYGLPVVVKLLHPPSHWPLIKATVGLIRNLALCPANHAPLREQGAIPRLVQLLVRAHQDTQRRTSMGGTQQQFVEGVRMEEIVEGCTGALHILARDVHNRIVIRGLNTIPLFVQLLYSPIENIQRVAAGVLCELAQDKEAAEAIEAEGATAPLTELLHSRNEGVATYAAAVLFRMSEDKPQDYKKRLSVELTSSLFRTEPMAWNETADLGLDIGAQGEPLGYRQDDPSYRSFHSGGYGQDALGMDPMMEHEMGGHHPGADYPVDGLPDLGHAQDLMDGLPPGDSNQLAWFDTDL |
| 383 | sp|Q6QLQ5|CTHL1\_CHICK | MLSCWVLLLALLGGACALPAPLGYSQALAQAVDSYNQRPEVQNAFRLLSADPEPGPNVQLSSLHNLNFTIMETRCQARSGAQLDSCEFKEDGLVKDCAAPVVLQGGRAVLDVTCVDSMADPVRVKRVWPLVIRTVIAGYNLYRAIKKK |
| 384 | sp|P25779|CYSP\_TRYCR | MSGWARALLLAAVLVVMACLVPAATASLHAEETLTSQFAEFKQKHGRVYESAAEEAFRLSVFRENLFLARLHAAANPHATFGVTPFSDLTREEFRSRYHNGAAHFAAAQERARVPVKVEVVGAPAAVDWRARGAVTAVKDQGQCGSCWAFSAIGNVECQWFLAGHPLTNLSEQMLVSCDKTDSGCSGGLMNNAFEWIVQENNGAVYTEDSYPYASGEGISPPCTTSGHTVGATITGHVELPQDEAQIAAWLAVNGPVAVAVDASSWMTYTGGVMTSCVSEQLDHGVLLVGYNDSAAVPYWIIKNSWTTQWGEEGYIRIAKGSNQCLVKEEASSAVVGGPGPTPEPTTTTTTSAPGPSPSYFVQMSCTDAACIVGCENVTLPTGQCLLTTSGVSAIVTCGAETLTEEVFLTSTHCSGPSVRSSVPLNKCNRLLRGSVEFFCGSSSSGRLADVDRQRRHQPYHSRHRRL |
| 385 | sp|Q9UBT7|CTNL1\_HUMAN | MAASPGPAGVGGAGAVYGSGSSGFALDSGLEIKTRSVEQTLLPLVSQITTLINHKDNTKKSDKTLQAIQRVGQAVNLAVGRFVKVGEAIANENWDLKEEINIACIEAKQAGETIAALTDITNLNHLESDGQITIFTDKTGVIKAARLLLSSVTKVLLLADRVVIKQIITSRNKVLATMERLEKVNSFQEFVQIFSQFGNEMVEFAHLSGDRQNDLKDEKKKAKMAAARAVLEKCTMMLLTASKTCLRHPNCESAHKNKEGVFDRMKVALDKVIEIVTDCKPNGETDISSISIFTGIKEFKMNIEALRENLYFQSKENLSVTLEVILERMEDFTDSAYTSHEHRERILELSTQARMELQQLISVWIQAQSKKTKSIAEELELSILKISHSLNELKKELHSTATQLAADLLKYHADHVVLKALKLTGVEGNLEALAEYACKLSEQKEQLVETCRLLRHISGTEPLEITCIHAEETFQVTGQQIISAAETLTLHPSSKIAKENLDVFCEAWESQISDMSTLLREINDVFEGRRGEKYGYLSLPKPMKNNANLKSLKPDKPDSEEQAKIAKLGLKLGLLTSDADCEIEKWEDQENEIVQYGRNMSSMAYSLYLFTRGEGPLKTSQDLIHQLEVFAAEGLKLTSSVQAFSKQLKDDDKLMLLLEINKLIPLCHQLQTVTKTSLQNKVFLKVDKCITKTRSMMALLVQLLSLCYKLLKKLQMENNGWVSVTNKDTMDSKT |
| 386 | sp|Q01231|CXA5\_MOUSE | MGDWSFLGEFLEEVHKHSTVIGKVWLTVLFIFRMLVLGTAAESSWGDEQADFRCDTIQPGCQNVCYDQAFPISHIRYWVLQIIFVSTPSLVYMGHAMHTVRMQEKQKLRDAEKAKEAHRTGAYEYPVAEKAELSCWKEVDGKIVLQGTLLNTYVCTILIRTTMEVAFIVGQYLLYGIFLDTLHVCRRSPCPHPVNCYVSRPTEKNVFIVFMMAVAGLSLFLSLAELYHLGWKKIRQRFGKSRQGVDKHQLPGPPTSLVQSLTPPPDFNQCLKNSSGEKFFSDFSNNMGSRKNPDALATGEVPNQEQIPGEGFIHMHYSQKPEYASGASAGHRLPQGYHSDKRRLSKASSKARSDDLSV |
| 387 | sp|O95452|CXB6\_HUMAN | MDWGTLHTFIGGVNKHSTSIGKVWITVIFIFRVMILVVAAQEVWGDEQEDFVCNTLQPGCKNVCYDHFFPVSHIRLWALQLIFVSTPALLVAMHVAYYRHETTRKFRRGEKRNDFKDIEDIKKQKVRIEGSLWWTYTSSIFFRIIFEAAFMYVFYFLYNGYHLPWVLKCGIDPCPNLVDCFISRPTEKTVFTIFMISASVICMLLNVAELCYLLLKVCFRRSKRAQTQKNHPNHALKESKQNEMNELISDSGQNAITGFPS |
| 388 | sp|P77239|CUSB\_ECOLI | MKKIALIIGSMIAGGIISAAGFTWVAKAEPPAEKTSTAERKILFWYDPMYPNTRFDKPGKSPFMDMDLVPKYADEESSASGVRIDPTQTQNLGVKTATVTRGPLTFAQSFPANVSYNEYQYAIVQARAAGFIDKVYPLTVGDKVQKGTPLLDLTIPDWVEAQSEYLLLRETGGTATQTEGILERLRLAGMPEADIRRLIATQKIQTRFTLKAPIDGVITAFDLRAGMNIAKDNVVAKIQGMDPVWVTAAIPESIAWLVKDASQFTLTVPARPDKTLTIRKWTLLPGVDAATRTLQLRLEVDNADEALKPGMNAWLQLNTASEPMLLIPSQALIDTGSEQRVITVDADGRFVPKRVAVFQASQGVTALRSGLAEGEKVVSSGLFLIDSEANISGALERMRSESATHAH |
| 389 | sp|P28234|CXA5\_RAT | MGDWSFLGEFLEEVHKHSTVIGKVWLTVLFIFRMLVLGTAAESSWGDEQADFRCDTIQPGCQNVCYDQAFPISHIRYWVLQIIFVSTPSLVYMGHAMHTVRMQEKQKLREAEKAKEAGGTGTYEYLAEKAELSCWKEVNGKIVLQGTLLNTYVCTILIRTAMEVAFMVGQYLLYGIFLDTLHVCRRSPCPHPVNCYVSRPTEKNVFIVFMMAVAGLSLFLSLAELYHLGWKKIRQRLAKSRQGDKHQLLGPSTSLVQGLTPPPDFNQCLKNSPDEKFFSDFSNNMGSRKNPDPLATEEVPNQEQIPEEGFIHTQYGQKPEQPSGASAGHRFPQGYHSDKRRLSKASSKARSDDLSV |
| 390 | sp|P18296|CUT1\_SCHPO | MSTRSIVTSKVSWTPEKFISALSYPEHCSITLVKRLKASVKLKDLKQNISRDAPSWTFEHLFVAFKCAVSNLAKQWAELSTTDKEKTRRMFCTPSRLNTAHRPEVFYLLECCTYILEQMQVVTKNTSHLYDCIRSGVSICNRLLDMEIFEPAISLLMKTHKNLIILLTYRDHDAIPTATLLNPTLDVSEIQLESCLFVPMVPASYFLNIGTIVVTFQLNVLRCLSLSQINGLSLNTINNLQSEDGPFQWIERSFPSQVQLANSRREILARLLTRFSMIQNNALQSFKLLILSIALWLNILSSQRADDKEFDVNQLETRILQLFSKVVQLCKSEDIEGSILNKDMTQLHHLLENLSKESRLHILLQLSQLYYKYNDFQLSAAYVIRGYSLSFEDISFKLKFLLFSFRLSIHDNSICFPFNLIQELSSLQQLFVENALPYSEALHLLDSIERSFRLFNDSTVFDDTVFALNISEILSWILSSVVRDILVEDELLNLQLKIRKFLMFTFHIIRSFSELTKFQSSLEGCLNLAAYYEDAEFPQKLSNHLYNLCVKSSNVNYARECISLSIKIAVSHKLTNDETYLLKILKNFQLRYHDSLQLQEKCDVLHTTFNQLDLYVGTTSVGKSSVLDNILKRIFNSLTSINDSNIEKLLESISYSLLKLFFKCANEGSRYNASAALSFKLSLMLHEKEEVLLLKTNVSCVLANHGYNDIKFEEMVLCVIKGDQNLLEHNSNNNAKLALNESLLCSWENLLCYRRAEDDSRILTIIESWTIFISRFSSVISRCSFTDFEINSILNFFFCFLHTVEPSGKLTFELAFLEIFYELFNCLLHLQFSKYLVIIGTLLSDKYMTLGFSGKAHLFYTKCYSYLRQCKSSPFINFWNVSYGKYLILTGNTDKGILQLKKYSLSSEEDFNSNGLSRTVSLNLLLYERIQLSDALFQLGYTTVSLGFIMQNLKVIKGLFSKSSKEHFNGGKYITWRLFAVSAHSNVCAARIYEHMGQAREAEFFYRQACSISEKMPFSCFSATFQLRLCSLLTRAGKLEKGEKILFDLTEAMKSTDTYHKLLWNYGAAEVCATKSELDGAICHYSECVKLLEIIKSEYYLFFNRNREKSLTKGIKRLSLSSQPTFVTESNTTEFDDWSILQNTAANLLRLISMFELKRGNLEIAKALMTDSTKCSIASFFNIVSANILKSKLIVCEADSTLFGDPVLRTLPDSVISLPGISHKFQKNQSKTKALGENTGFRKGSKRLDYLRERLKINLQNVRLSCEIIFSNAYERSSVCVCREVNELISYSTIMQSALTTIGETTDVDSSSASFFLEIPKALGFHRRREAQKFRNQHKELHFSSLEQILNSRLSIPDVRTFQDNFIDSLPSIWNVVSITINNSGEDLFISKIRKGHSPLIFRLPLQRHNSRDADEEILVFTKAQTELFRIISKSNQMAQNGKHYTRREDKETWWKERRHLDQCLQQLLENIEISWLGGFKGIFNPHKIDTSLFAKFSSQFQNIIAKNFNMDKKTPVPTLSPEILELFITLGKPGYEGYEQLLEDLIYFILDIFQFRGLHFAYDEIDTDQLSMDLQDALNAYFNNYVSEENRSHTVLVLDKSVHQFPWESLPCLNRQSVSRVPSLSILRDILSQSFVVNGEYVEVRKEAGSYILNPSLDLKHTQEMFEHKLVEGGWKGLIASQPSNRDFIKMLSGNDFFLYFGHGGGEQYTTSYDLATLKRCAVTILMGCSSGALYECGSFEPWGTPLDYLSAGCPTLVANLWDVTDKDIDRFSLKMLESWGLFENKAPFVNSTSICTAVSESRSCCHLRYLNGAAPVIYGIPAYIIP |
| 391 | sp|Q9P2B4|CT2NL\_HUMAN | MNLEKLSKPELLTLFSILEGELEARDLVIEALKAQHRDTFIEERYGKYNISDPLMALQRDFETLKEKNDGEKQPVCTNPLSILKVVMKQCKNMQERMLSQLAAAESRHRKVILDLEEERQRHAQDTAEGDDVTYMLEKERERLTQQLEFEKSQVKKFEKEQKKLSSQLEEERSRHKQLSSMLVLECKKATNKAAEEGQKAGELSLKLEKEKSRVSKLEEELAAERKRGLQTEAQVEKQLSEFDIEREQLRAKLNREENRTKTLKEEMESLKKIVKDLEASHQHSSPNEQLKKPVTVSKGTATEPLMLMSVFCQTESFPAERTHGSNIAKMTNTGLPGPATPAYSYAKTNGHCDPEIQTTRELTAGNNVENQVPPREKSVALAQEKPVENGGCPVGIETPVPMPSPLSSSGSSLSPSSTASSSLTSSPCSSPVLTKRLLGSSASSPGYQSSYQVGINQRFHAARHKFQSQADQDQQASGLQSPPSRDLSPTLIDNSAAKQLARNTVTQVLSRFTSQQGPIKPVSPNSSPFGTDYRNLANTANPRGDTSHSPTPGKVSSPLSPLSPGIKSPTIPRAERGNPPPIPPKKPGLTPSPSATTPLTKTHSQAASLTTAEDLASSCSSNTVVANGKDVELLLPTSS |
| 392 | sp|P25025|CXCR2\_HUMAN | MEDFNMESDSFEDFWKGEDLSNYSYSSTLPPFLLDAAPCEPESLEINKYFVVIIYALVFLLSLLGNSLVMLVILYSRVGRSVTDVYLLNLALADLLFALTLPIWAASKVNGWIFGTFLCKVVSLLKEVNFYSGILLLACISVDRYLAIVHATRTLTQKRYLVKFICLSIWGLSLLLALPVLLFRRTVYSSNVSPACYEDMGNNTANWRMLLRILPQSFGFIVPLLIMLFCYGFTLRTLFKAHMGQKHRAMRVIFAVVLIFLLCWLPYNLVLLADTLMRTQVIQETCERRNHIDRALDATEILGILHSCLNPLIYAFIGQKFRHGLLKILAIHGLISKDSLPKDSRPSFVGSSSGHTSTTL |
| 393 | sp|P00015|CYC2\_MOUSE | MGDAEAGKKIFVQKCAQCHTVEKGGKHKTGPNLWGLFGRKTGQAPGFSYTDANKNKGVIWSEETLMEYLENPKKYIPGTKMIFAGIKKKSEREDLIKYLKQATSS |
| 394 | sp|Q6MG55|ABHGA\_RAT | MAKLLSCVLGPRLYKIYRERDTDRAATSVPETPTAVPAASSSSWDSYYQPRALEKHADSILALASVFWSISYYSSPFAFFYLYRKGYLSLSKVVPFSHYAGTLLVLLAGVACLRGIGRWTNPQYRQFITILEATHRNQSAENKRQLANYNFDFRSWPVDFHWEEPSSRKGSRGGPSRRGVALLRPEPLHRGTADTFLNRVKKLPCQITSYLVAHTLGRRMLYPGSVYLLQKALMPVLLQGQARLVEECNGRRAKLLACDGNEIDTMFVDRRGTAEPQGQKLVICCEGNAGFYEVGCVSTPLEAGYSVLGWNHPGFAGSTGVPFPQNEANAMDVVVQFAIHRLGFQPQDIVIYAWSIGGFTATWAAMSYPDISAVILDASFDDLVPLALKVMPDSWRALVTRTVRQHLNLNNAEQLCRFQGPVLLVRRTKDEIITTTVPEDIMSNRGNDLLLKLLQFRYPRVMTEEGLRAVRQWLEASSQLEEASIYSRWEVDEDWCVSVLRSYQAEHGPDFPWSVGEDMSVDGRRQLALFLARKHLHNFEATHCTPLPAQHFQMPWCL |
| 395 | sp|P28800|A2AP\_BOVIN | MALLWGLLALILSCLSSLCSAQFSPVSTMEPLDLQLMDGQAQQKLPPLSLLKLDNQEPGGQIAPKKAPEDCKLSPTPEQTRRLARAMMTFTTDLFSLVAQSSTRPNLILSPLSVALALSHLALGAQNQTLQRLKEVLHADSGPCLPHLLSRLCQDLGPGAFRLAARMYLQKGFPIKEDFLEQSEQLFGAKPMSLTGMKGEDLANINRWVKEATEGKIEDFLSDLPDDTVLLLLNAIHFQGFWRSKFDPNLTQRGAFHLDEQFTVPVDMMQALTYPLHWFLLEQPEIQVAHFPFKNNMSFVVLMPTRFEWNASQVLANLTWDILHQPSLSERPTKVQLPKLHLKYQLDLVATLSQLGLQELFQAPDLRGISDERLVVSSVQHQSALELSEAGVQAAAATSTAMSRMSLSSFIVNRPFLFFILEDSTSLPLFVGSVRNPNPGAQPERKEQQDSPDGKDSFQDHKGLPRGDKPFDPDLKLGPPSEEDYAQPSSPK |
| 396 | sp|Q7G192|ALDO2\_ARATH | MSLVFAINGQRFELELSSVDPSTTLLEFLRYQTSFKSVKLSCGEGGCGACVVLLSKFDPVLQKVEDFTVSSCLTLLCSVNHCNITTSEGLGNSRDGFHPIHKRLSGFHASQCGFCTPGMSVSLFSALLDADKSQYSDLTVVEAEKAVSGNLCRCTGYRPIVDACKSFASDVDIEDLGLNSFCRKGDKDSSSLTRFDSEKRICTFPEFLKDEIKSVDSGMYRWCSPASVEELSSLLEACKANSNTVSMKLVAGNTSMGYYKDEREQNYDKYIDITRIPHLKEIRENQNGVEIGSVVTISKVIAALKEIRVSPGVEKIFGKLATHMEMIAARFIRNFGSIGGNLVMAQRKQFPSDMATILLAAGAFVNIMSSSRGLEKLTLEEFLERSPLEAHDLVLSIEIPFWHSETNSELFFETYRAAPRPHGSALAYLNAAFLAEVKDTMVVNCRLAFGAYGTKHAIRCKEIEEFLSGKVITDKVLYEAITLLGNVVVPEDGTSNPAYRSSLAPGFLFKFLHTLMTHPTTDKPSNGYHLDPPKPLPMLSSSQNVPINNEYNPVGQPVTKVGASLQASGEAVYVDDIPSPTNCLYGAFIYSKKPFARIKGIHFKDDLVPTGVVAVISRKDVPKGGKNIGMKIGLGSDQLFAEDFTTSVGECIAFVVADTQRHADAAVNLAVVEYETEDLEPPILSVEDAVKKSSLFDIIPFLYPQQVGDTSKGMAEADHQILSSEIRLGSQYVFYMETQTALAVGDEDNCIVVYSSTQTPQYVQSSVAACLGIPENNIRVITRRVGGGFGGKSVKSMPVATACALAAKKLQRPVRTYVNRKTDMIMTGGRHPMKITYSVGFKSTGKITALELEILIDAGASYGFSMFIPSNLIGSLKKYNWGALSFDIKLCKTNLLSRAIMRSPGDVQGTYIAEAIIENIASSLSLEVDTIRKINLHTHESLALFYKDGAGEPHEYTLSSMWDKVGVSSKFEERVSVVREFNESNMWRKRGISRVPIIYEVLLFATPGRVSVLSDGTIVVEIGGIELGQGLWTKVKQMTSYALGMLQCDGTEELLEKIRVIQSDSLSMVQGNFTGGSTTSEGSCAAVRLCCETLVERLKPLMERSDGPITWNELISQAYAQSVNLSASDLYTPKDTPMQYLNYGTAVSEVEVDLVTGQTTVLQTDILYDCGKSLNPAVDLGQIEGSFVQGLGFFMLEEYIEDPEGLLLTDSTWTYKIPTVDTIPKQFNVEILNGGCHEKRVLSSKASGEPPLLLAASVHCATRQAVKEARKQLCMWKGENGSSGSAFQLPVPATMPVVKELCGLDIIESYLEWKLHDNSNL |
| 397 | sp|P0A991|ALF1\_ECOLI | MTDIAQLLGKDADNLLQHRCMTIPSDQLYLPGHDYVDRVMIDNNRPPAVLRNMQTLYNTGRLAGTGYLSILPVDQGVEHSAGASFAANPLYFDPKNIVELAIEAGCNCVASTYGVLASVSRRYAHRIPFLVKLNHNETLSYPNTYDQTLYASVEQAFNMGAVAVGATIYFGSEESRRQIEEISAAFERAHELGMVTVLWAYLRNSAFKKDGVDYHVSADLTGQANHLAATIGADIVKQKMAENNGGYKAINYGYTDDRVYSKLTSENPIDLVRYQLANCYMGRAGLINSGGAAGGETDLSDAVRTAVINKRAGGMGLILGRKAFKKSMADGVKLINAVQDVYLDSKITIA |
| 398 | sp|Q9SJU4|ALFP1\_ARATH | MASSTATMLKASPVKSDWVKGQSLLLRQPSSVSAIRSHVAPSALTVRAASAYADELVKTAKTIASPGHGIMAMDESNATCGKRLASIGLENTEANRQAYRTLLVSAPGLGQYISGAILFEETLYQSTTDGKKMVDVLVEQNIVPGIKVDKGLVPLVGSYDESWCQGLDGLASRTAAYYQQGARFAKWRTVVSIPNGPSALAVKEAAWGLARYAAISQDSGLVPIVEPEIMLDGEHGIDRTYDVAEKVWAEVFFYLAQNNVMFEGILLKPSMVTPGAEATDRATPEQVASYTLKLLRNRIPPAVPGIMFLSGGQSELEATLNLNAMNQAPNPWHVSFSYARALQNTCLKTWGGKEENVKAAQDILLARAKANSLAQLGKYTGEGESEEAKEGMFVKGYTY |
| 399 | sp|Q9Z0M6|AGRE5\_MOUSE | MRGVRCPGLLVVCILLSLSGAGTQKAESKNCAKWCPINSKCVSNRSCVCKPGFSSEKELITNPAESCEDINECLLPGFSCGDFAMCKNSEGSYTCVCNLGYKLLSGAESFVNESENTCQASVNTGTTPVPSRIHTVTTAPGNLPEQTTTVHQTQMGDSEERTPKDVNECISGQNHCHQSTHCINKLGGYSCICRQGWKPVPGSPNGPVSTVCEDVDECSSGQHQCHNSTVCKNTVGSYKCHCRPGWKPTSGSLRGPDTICQEPPFPTWTLLPTAHSQTLLRFSVEVQNLLRDFNPATVNYTIQKLIEAVDKLLEDPMETQTQQVAAQLLSNLEQSLRTLAQFLPKGPFTYTSPSNTELSLMVKEQDNKDVTTVHHGQTWMELDWAVTAGAKISENGSSVAGILSSPNMEKLLGNTPLNLEQRRASLEDFYGSPIPSVSLKLLSNINSVFLTNTNTEKLASNVTFKFDFTSVESIEPRHELICAFWKAHNGNGYWDTDGCSMNGTGFCHCNHLTSFAILMAQYHVQDPRLELITKVGLLLSLICLLLCILTFLLVKPIQSSRTMVHLHLCICLFLGSIIFLVGVENEGGEVGLRCRLVAMMLHFCFLAAFCWMALEGVELYFLVVRVFQGQGLSTWQRCLIGYGVPLLIVAISMAVVKMDGYGHATYCWLDFRKQGFLWSFSGPVAFIIFCNAAIFVITVWKLTKKFSEINPNMKKLRKARVLTITAIAQLLVLGCTWGFGLFLFNPHSTWLSYIFTLLNCLQGLFLYVMLCLLNKKVREEYWKWACMVTGSKYTEFNSSTTGTGTSQTRALRSSESGM |
| 400 | sp|P40146|ADCY8\_RAT | MELSDVHCLSGSEELYTIHPTPPAADGGSGSRPQRLLWQTAVRHITEQRFIHGHRGGGGGGSRKASNPAGSGPNHHAPQLSSDSVLPLYSLGSGERAHNTGGTKVFPERSGSGSASGSGGGGDLGFLHLDCAPSNSDFFLNGGYSYRGVIFPTLRNSFKSRDLERLYQRYFLGQRRKSEVVMNVLDVLTKLTLLVLHLSLASAPMDPLKGILLGFFTGIEVVICALVVVRKDTTSHTYLQYSGVVTWVAMTTQILAAGLGYGLLGDGIGYVLFTLFATYSMLPLPLTWAILAGLGTSLLQVTLQVLIPRLAVFSINQVLAQVVLFMCMNTAGIFISYLSDRAQRQAFLETRRCVEARLRLETENQRQERLVLSVLPRFVVLEMINDMTNVEDEHLQHQFHRIYIHRYENVSILFADVKGFTNLSTTLSAQELVRMLNELFARFDRLAHEHHCLRIKILGDCYYCVSGLPEPRQDHAHCCVEMGLSMIKTIRFVRSRTKHDVDMRIGIHSGSVLCGVLGLRKWQFDVWSWDVDIANKLESGGIPGRIHISKATLDCLSGDYNVEEGHGKERNEFLRKHNIETYLIKQPEESLLSLPEDIVKESVSCSDRRNSGATFTEGSWSPELPFDNIVGKQNTLAALTRNSINLLPNHLAQALHVQSGPEEINKRIEHTIDLRSGDKLRREHIKPFSLMFKDSSLEHKYSQMRDEVFKSNLVCAFIVLLFITAIQSLLPSSRLMPMTIQFSILIMLHSALVLITTAEDYKCLPLILRKTCCWINETYLARNVIIFASILINFLGAVINILWCDFDKSIPLKNLTFNSSAVFTDICSYPEYFVFTGVLAMVTCAVFLRLNSVLKLAVLLIMIAIYALLTETIYAGLFLSYDNLNHSGEDFLGTKEASLLLMAMFLLAVFYHGQQLEYTARLDFLWRVQAKEEINEMKDLREHNENMLRNILPGHVARHFLEKDRDNEELYSQSYDAVGVMFASIPGFADFYSQTEMNNQGVECLRLLNEIIADFDELLGEDRFQDIEKIKTIGSTYMAVSGLSPEKQQCEDKWGHLCALADFSLALTESIQEINKHSFNNFELRIGISHGSVVAGVIGAKKPQYDIWGKTVNLASRMDSTGVSGRIQVPEETYLILKDQGFAFDYRGEIYVKGISEQEGKIKTYFLLGRVQPNPFILPPRRLPGQYSLAAVVLGLVQSLNRQRQKQLLNENSNSGIIKSHYNRRTLLTPSGPEPGAQAEGTDKSDLP |
| 401 | sp|Q09LY5|AGUA\_GEOSE | MTAGYEPCWLRYERKDQYSRLRFEEIVAKRTSPIFQAVVEELQKGLRSMMEIEPQVVQEVNETANSIWLGTLEDEEFERPLEGTLVHPEGYVIRSDVDDGPFRIYIIGKTDAGVLYGVFHFLRLLQMGENIAQLSIIEQPKNRLRMINHWDNMDGSIERGYAGRSIFFVDDQFVKQNQRIKDYARLLASVGINAISINNVNVHKTETKLITDHFLPDVAEVADIFRTYGIKTFLSINYASPIEIGGLPTADPLDPEVRRWWKETAKRIYQYIPDFGGFVVKADSEFRPGPFTYGRDHAEGANMLAEALAPFGGLVIWRCFVYNCQQDWRDRTTDRAKAAYDHFKPLDGQFRENVILQIKNGPMDFQVREPVSPLFGAMPKTNQMMEVQITQEYTGQQKHLCFLIPQWKEVLDFDTYAKGKGSEVKKVIDGSLFDYRYSGIAGVSNIGSDPNWTGHTLAQANLYGFGRLAWNPDLSAEEIANEWVVQTFGDDSQVVETISWMLLSSWRIYENYTSPLGVGWMVNPGHHYGPNVDGYEYSHWGTYHYADRDGIGVDRTVATGTGYTAQYFPENAAMYESLDTCPDELLLFFHHVPYTHRLHSGETVIQHIYNTHFEGVEQAKQLRKRWEQLKGKIDEKRYHDVLERLTIQVEHAKEWRDVINTYFYRKSGIDDQYGRKIYR |
| 402 | sp|P62738|ACTA\_RAT | MCEEEDSTALVCDNGSGLCKAGFAGDDAPRAVFPSIVGRPRHQGVMVGMGQKDSYVGDEAQSKRGILTLKYPIEHGIITNWDDMEKIWHHSFYNELRVAPEEHPTLLTEAPLNPKANREKMTQIMFETFNVPAMYVAIQAVLSLYASGRTTGIVLDSGDGVTHNVPIYEGYALPHAIMRLDLAGRDLTDYLMKILTERGYSFVTTAEREIVRDIKEKLCYVALDFENEMATAASSSSLEKSYELPDGQVITIGNERFRCPETLFQPSFIGMESAGIHETTYNSIMKCDIDIRKDLYANNVLSGGTTMYPGIADRMQKEITALAPSTMKIKIIAPPERKYSVWIGGSILASLSTFQQMWISKQEYDEAGPSIVHRKCF |
| 403 | sp|Q9WVT0|AGRF5\_RAT | MKSSRTVTLYFVLIVICSSEATWSRPAEPIVHPLILQEHELAGEELLRPKRAVAVGGPVAEEYTVDVEISFENVSFLESIRAHLNSLRFPVQGNGTDILSMAMTTVCTPTGNDLLCFCEKGYQWPEERCLSSLTCQEHDSALPGRYCNCLKGLPPQGPFCQLPETYITLKIKVRLNIGFQEDLENTSSALYRSYKTDLERAFRAGYRTLPGFRSVTVTQFTKGSVVVDYIVEVASAPLPGSIHKANEQVIQNLNQTYKMDYNSFQGTPSNETKFTVTPEFIFEGDNVTLECESEFVSSNTSWFYGEKRSDIQNSDKFSIHTSIINNISLVTRLTIFNFTQHDAGLYGCNVTLDIFEYGTVRKLDVTPIRILAKEERKVVCDNNPISLNCCSENIANWSRIEWKQEGKINIEGTPETDLESSCSTYTLKADGTQCPSGSSGTTVIYTCEFVSVYGAKGSKNIAVTFTSVANLTITPDPISVSEGQSFSITCLSDVSSFDEVYWNTSAGIKIHPRFYTMRRYRDGAESVLTVKTSTREWNGTYHCIFRYKNSYSIATKDVTVHPLPLESDIMMDPLEASGLCTSSHQFKCCIEENDGEEYIVTFHVDSSSFPAEREVIGKQACYTYSLPGKLPSRCPKDIDVFCHFTNAANSSVRSPSMKLTLVPGKNITCQDPIIGIGEPGKVIQKLCQFAGVSRSPGQTIGGTVTYKCVGSQWKEETRACISAPINGLLQLAKALIKSPSQDQKLPKYLRDLSVSTGKEEQDIRSSPGSLGAIISILDLLSTVPTQVNSEMMRDILATINVILDKSTLNSWEKLLQQQSNQSSQFLQSVERFSKALELGDSTPPFLFHPNVQMKSMVIKRGHAQMYQQKFVFTDSDLWGDVAIDECQLGSLQPDSSIVTVAFPTLKAILAQDGQRKTPSNSLVMTTTVSHNIVKPFRISMTFKNNHRSGGKPQCVFWNFSLANNTGGWDSSGCTVEDDGRDNRDRVFCKCNHLTSFSILMSPDSPDPGSLLKILLDIISYIGLGFSIVSLAACLVVEAMVWKSVTKNRTSYMRHICIVNIALCLLIADIWFIVAGAIHDGHYPLNETACVAATFFIHFFYLSVFFWMLTLGLMLFYRLIFILHDASKSTQKAIAFSLGYGCPLIISSITVGVTQPQEVYMRKNACWLNWEDTRALLAFAIPALIIVVVNVSITVVVITKILRPSVGDKPGKQEKSSLFQISKSIGVLTPLLGLTWGFGLATVIQGSNAVFHIIFTLLNAFQGLFILLFGCLWDQKVQEALLHKFSLSRWSSQHSKSTSLGSSTPVFSMSSPISRRFNNLFGKTGTYNVSTPETTSSSVENSSSAYSLLN |
| 404 | sp|Q8C138|ADTRP\_MOUSE | MTKTTTCVYHFLVLNWYIFLNYHIPQIGRNEEKLREFHDGGRSKYLTLLNLLLQAIFFGVACLDDVLKRVIGRKDIKFVTSFRDLLFTTMAFPISTFVFLVFWTLFHYDRSLVYPKGLDDFFPAWVNHAMHTSIFPFSLFETILRPHNYPSKKLGLTLLGAFNFAYIIRILWRYVQTGNWVYPVFDSLSPLGIIIFFSAAYILVAGIYLFGEKINHWKWGAIAKPQMKKN |
| 405 | sp|Q9U389|ALLO1\_CAEEL | MNDPLDSLSNDEFEIIETFDPETEDREDQWSIQQSIRIEPISIQMPNTLQSQRAPSPVGSKAPESLKDEDPDRTPEASIVETPLLTETLKEDRTPMSTPLASLVNSSQSPEFTLQNMSIVSESECSNNSSLVNVADVESTEIALRTSLLLVSELKSQLQAAKMSESTLLKSNSNHEIEENKKLSEKMEVMKNEFELKMQESAASVEKVIQEKDSAIEQLKVQLAQSQQVAELWKQGAEKNSNAQYSDSKTTIDRLLEENSKLRNLVDEEVARRLEESERRKLAEDQLKHARGGSVFDPPASFVASQLAERTTYSLNLEHELITLRKELEETKEALKKSVEESSNKDEIVSALHELAGPTGEHPHARFERAGDQQSEAEMSSTWSAGRLLELSRQIVHFISHQ |
| 406 | sp|Q14155|ARHG7\_HUMAN | MNSAEQTVTWLITLGVLESPKKTISDPEGFLQASLKDGVVLCRLLERLLPGTIEKVYPEPRSESECLSNIREFLRGCGASLRLELLFPPSQPPQHLVTTILLSASTFDANDLYQGQNFNKVLSSLVTLNKVTADIGLGSDSVCARPSSHRIKSFDSLGSQSLHTRTSKLFQGQYRSLDMTDNSNNQLVVRAKFNFQQTNEDELSFSKGDVIHVTRVEEGGWWEGTLNGRTGWFPSNYVREVKASEKPVSPKSGTLKSPPKGFDTTAINKSYYNVVLQNILETENEYSKELQTVLSTYLRPLQTSEKLSSANISYLMGNLEEICSFQQMLVQSLEECTKLPEAQQRVGGCFLNLMPQMKTLYLTYCANHPSAVNVLTEHSEELGEFMETKGASSPGILVLTTGLSKPFMRLDKYPTLLKELERHMEDYHTDRQDIQKSMAAFKNLSAQCQEVRKRKELELQILTEAIRNWEGDDIKTLGNVTYMSQVLIQCAGSEEKNERYLLLFPNVLLMLSASPRMSGFIYQGKLPTTGMTITKLEDSENHRNAFEISGSMIERILVSCNNQQDLQEWVEHLQKQTKVTSVGNPTIKPHSVPSHTLPSHPVTPSSKHADSKPAPLTPAYHTLPHPSHHGTPHTTINWGPLEPPKTPKPWSLSCLRPAPPLRPSAALCYKEDLSKSPKTMKKLLPKRKPERKPSDEEFASRKSTAALEEDAQILKVIEAYCTSAKTRQTLNSTWQGTDLMHNHVLADDDQPSLDSLGRRSSLSRLEPSDLSEDSDYDSIWTAHSYRMGSTSRKSCCSYISHQN |
| 407 | sp|P63259|ACTG\_RAT | MEEEIAALVIDNGSGMCKAGFAGDDAPRAVFPSIVGRPRHQGVMVGMGQKDSYVGDEAQSKRGILTLKYPIEHGIVTNWDDMEKIWHHTFYNELRVAPEEHPVLLTEAPLNPKANREKMTQIMFETFNTPAMYVAIQAVLSLYASGRTTGIVMDSGDGVTHTVPIYEGYALPHAILRLDLAGRDLTDYLMKILTERGYSFTTTAEREIVRDIKEKLCYVALDFEQEMATAASSSSLEKSYELPDGQVITIGNERFRCPEALFQPSFLGMESCGIHETTFNSIMKCDVDIRKDLYANTVLSGGTTMYPGIADRMQKEITALAPSTMKIKIIAPPERKYSVWIGGSILASLSTFQQMWISKQEYDESGPSIVHRKCF |
| 408 | sp|Q02336|ADA2\_YEAST | MSNKFHCDVCSADCTNRVRVSCAICPEYDLCVPCFSQGSYTGKHRPYHDYRIIETNSYPILCPDWGADEELQLIKGAQTLGLGNWQDIADHIGSRGKEEVKEHYLKYYLESKYYPIPDITQNIHVPQDEFLEQRRHRIESFRERPLEPPRKPMASVPSCHEVQGFMPGRLEFETEFENEAEGPVKDMVFEPDDQPLDIELKFAILDIYNSRLTTRAEKKRLLFENHLMDYRKLQAIDKKRSKEAKELYNRIKPFARVMTAQDFEEFSKDILEELHCRARIQQLQEWRSNGLTTLEAGLKYERDKQARISSFEKFGASTAASLSEGNSRYRSNSAHRSNAEYSQNYSENGGRKKNMTISDIQHAPDYALLSNDEQQLCIQLKILPKPYLVLKEVMFRELLKTGGNLSKSACRELLNIDPIKANRIYDFFQSQNWM |
| 409 | sp|P38116|ARL1\_YEAST | MGNIFSSMFDKLWGSNKELRILILGLDGAGKTTILYRLQIGEVVTTKPTIGFNVETLSYKNLKLNVWDLGGQTSIRPYWRCYYADTAAVIFVVDSTDKDRMSTASKELHLMLQEEELQDAALLVFANKQDQPGALSASEVSKELNLVELKDRSWSIVASSAIKGEGITEGLDWLIDVIKEEQL |
| 410 | sp|P0A2X8|ARCC1\_ENTFC | MGKKMVVALGGNAILSNDASAHAQQQALVQTSAYLVHLIKQGHRLIVSHGNGPQVGNLLLQQQAADSEKNPAMPLDTCVAMTQGSIGYWLSNALNQELNKAGIKKQVATVLTQVVVDPADEAFKNPTKPIGPFLTEAEAKEAMQAGAIFKEDAGRGWRKVVPSPKPIDIHEAETINTLIKNDIITISCGGGGIPVVGQELKGVEAVIDKDFASEKLAELVDADALVILTGVDYVCINYGKPDEKQLTNVTVAELEEYKQAGHFAPGSMLPKIEAAIQFVESQPNKQAIITSLENLGSMSGDEIVGTVVTK |
| 411 | sp|Q9HCE9|ANO8\_HUMAN | MAEAASGAGGTSLEGERGKRPPPEGEPAAPASGVLDKLFGKRLLQAGRYLVSHKAWMKTVPTENCDVLMTFPDTTDDHTLLWLLNHIRVGIPELIVQVRHHRHTRAYAFFVTATYESLLRGADELGLRKAVKAEFGGGTRGFSCEEDFIYENVESELRFFTSQERQSIIRFWLQNLRAKQGEALHNVRFLEDQPIIPELAARGIIQQVFPVHEQRILNRLMKSWVQAVCENQPLDDICDYFGVKIAMYFAWLGFYTSAMVYPAVFGSVLYTFTEADQTSRDVSCVVFALFNVIWSTLFLEEWKRRGAELAYKWGTLDSPGEAVEEPRPQFRGVRRISPITRAEEFYYPPWKRLLFQLLVSLPLCLACLVCVFLLMLGCFQLQELVLSVKGLPRLARFLPKVMLALLVSVSAEGYKKLAIWLNDMENYRLESAYEKHLIIKVVLFQFVNSYLSLFYIGFYLKDMERLKEMLATLLITRQFLQNVREVLQPHLYRRLGRGELGLRAVWELARALLGLLSLRRPAPRRLEPQADEGGGGGSGGGGRRCLSGGCGAPEEEEEAALVERRRAGEGGEEGDGPPGGKEEDEDDEEEEDEEEEEDEEEGEEGGLLDCGLRLKKVSFAERGAGRRRPGPSPEALLEEGSPTMVEKGLEPGVFTLAEEDDEAEGAPGSPEREPPAILFRRAGGEGRDQGPDGGPDPEPGSNSDSTRRQRRQNRSSWIDPPEEEHSPQLTQAELESCMKKYEDTFQDYQEMFVQFGYVVLFSSAFPLAALCALVNNLIEIRSDAFKLCTGLQRPFGQRVESIGQWQKVMEAMGVLAIVVNCYLIGQCGQLQRLFPWLSPEAAIVSVVVLEHFALLLKYLIHVAIPDIPGWVAEEMAKLEYQRREAFKRHERQAQHRYQQQQRRRREEEERQRHAEHHARREHDSGGREEARAEGSGLDPATSSEKASAKAKGSTAGGHGPERPKRPGSLLAPNNVMKLKQIIPLQGKFLSSGATSSLAAAGAGATTRPPPAQSPTGSDTRLPAFLSFKFLKSPETRRDSERSHSPPKAFHAGKLFPFGGTRAEPGSNGAGGQARPDGTPSSGSSRVQRSGPVDEALAEELEAPRPEEEGSGTALAPVGAPALRTRRSRSPAPPPPMPLPRPPTPPAGCWQWDGPWGCGGEGAAPRQALAAAECPPCAMAGPPPAPQPLPGDASFYSLPPPPLPPTSDPLETPAPSPSPSPSPQAVCWPSGWH |
| 412 | sp|Q84JF0|APK4\_ARATH | MDVAAMARCVGRCYVSPAFGESESHRLSERRFLKLSSSTNSDPAGSKSLKLRGKIHRRMSYFRPIMAKDESISSRSGETKQINGKQKNIVWHDCPVTKSDRQELIKQKGCVIWITGLSGSGKSSLACALSRALHNRGKLSYILDGDNVRHGLNSDLSFEADDRAENIRRVGEVAKLFADSGIICIASLISPYRIERAACRALLPQGDFIEVFMDVPLHVCEARDPKGLYKRARAGKIKGFTGVDDPYEAPLDCEIVIQNSRDKGLSSSSSSSSSPSSSSSSLCEMADIVVSYLDQNGYLKKHSTKSRNCM |
| 413 | sp|Q84N64|ARC5\_ARATH | MAEVSAKSVTVEEMAEEDDAAIEERWSLYEAYNELHALAQELETPFEAPAVLVVGQQTDGKSALVEALMGFQFNHVGGGTKTRRPITLHMKYDPQCQFPLCHLGSDDDPSVSLPKSLSQIQAYIEAENMRLEQEPCSPFSAKEIIVKVQYKYCPNLTIIDTPGLIAPAPGLKNRALQVQARAVEALVRAKMQHKEFIILCLEDSSDWSIATTRRIVMQVDPELSRTIVVSTKLDTKIPQFSCSSDVEVFLSPPASALDSSLLGDSPFFTSVPSGRVGYGQDSVYKSNDEFKQAVSLREMEDIASLEKKLGRLLTKQEKSRIGISKLRLFLEELLWKRYKESVPLIIPLLGKEYRSTVRKLDTVSKELSSLDEAKLKERGRTFHDLFLTKLSLLLKGTVVAPPDKFGETLQDERTQGGAFVGTDGLQFSHKLIPNAGMRLYGGAQYHRAMAEFRFLVGAIKCPPITREEIVNACGVEDIHDGTNYSRTACVIAVAKARETFEPFLHQLGARLLHILKRLLPISVYLLQKEGEYLSGHEVFLKRVASAFNSFVESTEKSCRDKCMEDLASTTRYVTWSLHNKNRAGLRQFLDSFGGTEHNTTSGNAIGFSLPQDALGGTTDTKSRSDVKLSHLASNIDSGSSIQTTEMRLADLLDSTLWNRKLAPSSERIVYALVQQIFQGIREYFLASAELKFNCFLLMPIVDKLPALLREELENAFEDDLDSIFDITNLRQSLDQKKRSTEIELRRIKRIKEKFRVMNEKLNSHEFAQNLKAPSVQH |
| 414 | sp|Q14AT5|ANO7\_MOUSE | MLRGQAREEDSVVLIDMASPEAGNGCSYGSTAQASEAGKQQVAPSRVGSSAKPPIDFVLVWEEDLRNQENPTKDKTDTHEVWRETFLENLCLAGLKIDQHDVQDEAAAVHYILLRAPWAVLCYYAEDLRLKLPLQELPNQASNWSATLLEWLGIPNILLEHVPDTPPEYYSCQFKASKLQWFLGSDNQDTFFTSTKRHQILFEILAKTPYGHEKKGLFGIDQLLAEGVFSAAFPLHDGPFSAVPESSQVLGLIQRQVLFQHWARWGKWNKYQPLDHVRRYFGEKVALYFAWLGFYTGWLLPAAVVGTVVFLVGCFLVFSDIPTQELCHSSDSFDMCPLCSDCSFWLLSSACTLAQAGRLFDHGGTVFFSLFMALWAVLLLEYWKRKNATLAYRWDCSDYEDIEERPRPQFAATAPMTALNPITGEDEPYFPEKNRVRRMLAGSVVLLMMVAVVIMCLVSVILYRAVMAIIVSRSDNAFLSAWASRIASLTGSVVNLVFILILSKVYVLLAQVLTRWEMHRTQTEFEDAFTLKVFIFQFVNFYASPVYIAFFKGRFVGYPGNYHTLFGIRNEECPAGGCLSELAQELLVIMVGKQIINNVQEVLVPKLKGCWQKFSRGKKAGTGTHPAPWEADYELLPCEGLFHEYLEMVLQFGFVTIFVAACPLAPLFALLNNWVEIRLDARKFVCEYRRPVAERAQDIGIWFHILTGLTHLAVISNAFLLAFSSDFLPRVYYSWTHAPDLHGFLNFTLARAPPTFTSAHNRTCRYRAFRDDDGHYSPTYWTLLAIRLAFVIVFEHVVFSIGRVLDLLVPDIPESVEIKVKREYYLAKQALAENEALLGATGVKDDQPPSSEPSLGLPA |
| 415 | sp|Q75V66|ANO5\_HUMAN | MGDPDLLEVLAEEGEKVNKHIDYSFQMSEQSLSSRETSFLINEETMPAKRFNLFLRRRLMFQKNQQSKDSIFFRDGIRQIDFVLSYVDDVKKDAELKAERRKEFETNLRKTGLELEIEDKRDSEDGRTYFVKIHAPWEVLVTYAEVLGIKMPIKESDIPRPKHTPISYVLGPVRLPLSVKYPHPEYFTAQFSRHRQELFLIEDQATFFPSSSRNRIVYYILSRCPFGIEDGKKRFGIERLLNSNTYSSAYPLHDGQYWKPSEPPNPTNERYTLHQNWARFSYFYKEQPLDLIKNYYGEKIGIYFVFLGFYTEMLFFAAVVGLACFIYGLLSMEHNTSSTEICDPEIGGQMIMCPLCDQVCDYWRLNSTCLASKFSHLFDNESTVFFAIFMGIWVTLFLEFWKQRQARLEYEWDLVDFEEEQQQLQLRPEFEAMCKHRKLNAVTKEMEPYMPLYTRIPWYFLSGATVTLWMSLVVTSMVAVIVYRLSVFATFASFMESDASLKQVKSFLTPQITTSLTGSCLNFIVILILNFFYEKISAWITKMEIPRTYQEYESSLTLKMFLFQFVNFYSSCFYVAFFKGKFVGYPGKYTYLFNEWRSEECDPGGCLIELTTQLTIIMTGKQIFGNIKEAIYPLALNWWRRRKARTNSEKLYSRWEQDHDLESFGPLGLFYEYLETVTQFGFVTLFVASFPLAPLLALINNIVEIRVDAWKLTTQYRRTVASKAHSIGVWQDILYGMAVLSVATNAFIVAFTSDIIPRLVYYYAYSTNATQPMTGYVNNSLSVFLIADFPNHTAPSEKRDFITCRYRDYRYPPDDENKYFHNMQFWHVLAAKMTFIIVMEHVVFLVKFLLAWMIPDVPKDVVERIKREKLMTIKILHDFELNKLKENLGINSNEFAKHVMIEENKAQLAKSTL |
| 416 | sp|A2BH40|ARI1A\_MOUSE | MAAQVAPAAASSLGNPPPPPSELKKAEQQQREEAGGEAAAAAAERGEMKAAAGQESEGPAVGPPQPLGKELQDGAESNGGGGGGGAGSGGGPGAEPDLKNSNGNAGPRPALNNNLPEPPGGGGGGGSSSSDGVGAPPHSAAAALPPPAYGFGQAYGRSPSAVAAAAAAVFHQQHGGQQSPGLAALQSGGGGGLEPYAGPQQNSHDHGFPNHQYNSYYPNRSAYPPPPQAYALSSPRGGTPGSGAAAAAGSKPPPSSSASASSSSSSFAQQRFGAMGGGGPSAAGGGTPQPTATPTLNQLLTSPSSARGYQGYPGGDYGGGPQDGGAGKGPADMASQCWGAAAAAAAAAAAVSGGAQQRSHHAPMSPGSSGGGGQPLARTPQSSSPMDQMGKMRPQPYGGTNPYSQQQGPPSGPQQGHGYPGQPYGSQTPQRYPMTMQGRAQSAMGSLSYAQQIPPYGQQGPSAYGQQGQTPYYNQQSPHPQQQPPYAQQPPSQTPHAQPSYQQQPQTQQPQLQSSQPPYSQQPSQPPHQQSPTPYPSQQSTTQQHPQSQPPYSQPQAQSPYQQQQPQQPASSSLSQQAAYPQPQPQQSQQTAYSQQRFPPPQELSQDSFGSQASSAPSMTSSKGGQEDMNLSLQSRPSSLPDLSGSIDDLPMGTEGALSPGVSTSGISSSQGEQSNPAQSPFSPHTSPHLPGIRGPSPSPVGSPASVAQSRSGPLSPAAVPGNQMPPRPPSGQSDSIMHPSMNQSSIAQDRGYMQRNPQMPQYTSPQPGSALSPRQPSGGQMHSGVGSYQQNSMGSYGPQGSQYGPQGGYPRQPNYNALPNANYPNAGMAGSMNPMGAGGQMHGQPGIPPYGTLPPGRMAHASMGNRPYGPNMANMPPQVGSGMCPPPGGMNRKTQESAVAMHVAANSIQNRPPGYPNMNQGGMMGTGPPYGQGINSMAGMINPQGPPYPMGGTMANNSAGMAASPEMMGLGDVKLTPATKMNNKADGTPKTESKSKKSSSSTTTNEKITKLYELGGEPERKMWVDRYLAFTEEKAMGMTNLPAVGRKPLDLYRLYVSVKEIGGLTQVNKNKKWRELATNLNVGTSSSAASSLKKQYIQCLYAFECKIERGEDPPPDIFAAADSKKSQPKIQPPSPAGSGSMQGPQTPQSTSSSMAEGGDLKPPTPASTPHSQIPPLPGMSRSNSVGIQDAFPDGSDPTFQKRNSMTPNPGYQPSMNTSDMMGRMSYEPNKDPYGSMRKAPGSDPFMSSGQGPNGGMGDPYSRAAGPGLGSVAMGPRQHYPYGGPYDRVRTEPGIGPEGNMGTGAPQPNLMPSTPDSGMYSPSRYPPQQQQQQQQQHDSYGNQFSTQGTPSSSPFPSQQTTMYQQQQQNYKRPMDGTYGPPAKRHEGEMYSVPYSAGQGQPQQQQLPAAQSQPASQPQAAQPSPQQDVYNQYSNAYPASATAATDRRPAGGPQNQFPFQFGRDRVSAPPGSSAQQNMPPQMMGGPIQASAEVAQQGTMWQGRNDMTYNYANRQNTGSATQGPAYHGVNRTDEMLHTDQRANHEGPWPSHGTRQPPYGPSAPVPPMTRPPPSNYQPPPSMPNHIPQVSSPAPLPRPMENRTSPSKSPFLHSGMKMQKAGPPVPASHIAPTPVQPPMIRRDITFPPGSVEATQPVLKQRRRLTMKDIGTPEAWRVMMSLKSGLLAESTWALDTINILLYDDNSIMTFNLSQLPGLLELLVEYFRRCLIEIFGILKEYEVGDPGQRTLLDPGRFTKVYSPAHTEEEEEEHLDPKLEEEEEEGVGNDEEMAFLGKDKPSSENNEEKLVSKFDKLPVKIVQRNDPFVVDCSDKLGRVQEFDSGLLHWRIGGGDTTEHIQTHFESKIELLPSRPYVPCPTPPRKHLTTVEGTPGTTEQEGPPPDGLPEKRITATMDDMLSTRSSTLTDEGAKSAEATKESSKFPFGISPAQSHRNIKILEDEPHSKDETPLCTLLDWQDSLAKRCVCVSNTIRSLSFVPGNDFEMSKHPGLLLILGKLILLHHKHPERKQAPLTYEKEEEQDQGVSCDKVEWWWDCLEMLRENTLVTLANISGQLDLSPYPESICLPVLDGLLHWAVCPSAEAQDPFSTLGPNAVLSPQRLVLETLSKLSIQDNNVDLILATPPFSRLEKLYSTMVRFLSDRKNPVCREMAVVLLANLAQGDSLAARAIAVQKGSIGNLLGFLEDSLAATQFQQSQASLLHMQNPPFEPTSVDMMRRAARALLALAKVDENHSEFTLYESRLLDISVSPLMNSLVSQVICDVLFLIGQS |
| 417 | sp|Q9NQW6|ANLN\_HUMAN | MDPFTEKLLERTRARRENLQRKMAERPTAAPRSMTHAKRARQPLSEASNQQPLSGGEEKSCTKPSPSKKRCSDNTEVEVSNLENKQPVESTSAKSCSPSPVSPQVQPQAADTISDSVAVPASLLGMRRGLNSRLEATAASSVKTRMQKLAEQRRRWDNDDMTDDIPESSLFSPMPSEEKAASPPRPLLSNASATPVGRRGRLANLAATICSWEDDVNHSFAKQNSVQEQPGTACLSKFSSASGASARINSSSVKQEATFCSQRDGDASLNKALSSSADDASLVNASISSSVKATSPVKSTTSITDAKSCEGQNPELLPKTPISPLKTGVSKPIVKSTLSQTVPSKGELSREICLQSQSKDKSTTPGGTGIKPFLERFGERCQEHSKESPARSTPHRTPIITPNTKAIQERLFKQDTSSSTTHLAQQLKQERQKELACLRGRFDKGNIWSAEKGGNSKSKQLETKQETHCQSTPLKKHQGVSKTQSLPVTEKVTENQIPAKNSSTEPKGFTECEMTKSSPLKITLFLEEDKSLKVTSDPKVEQKIEVIREIEMSVDDDDINSSKVINDLFSDVLEEGELDMEKSQEEMDQALAESSEEQEDALNISSMSLLAPLAQTVGVVSPESLVSTPRLELKDTSRSDESPKPGKFQRTRVPRAESGDSLGSEDRDLLYSIDAYRSQRFKETERPSIKQVIVRKEDVTSKLDEKNNAFPCQVNIKQKMQELNNEINMQQTVIYQASQALNCCVDEEHGKGSLEEAEAERLLLIATGKRTLLIDELNKLKNEGPQRKNKASPQSEFMPSKGSVTLSEIRLPLKADFVCSTVQKPDAANYYYLIILKAGAENMVATPLASTSNSLNGDALTFTTTFTLQDVSNDFEINIEVYSLVQKKDPSGLDKKKKTSKSKAITPKRLLTSITTKSNIHSSVMASPGGLSAVRTSNFALVGSYTLSLSSVGNTKFVLDKVPFLSSLEGHIYLKIKCQVNSSVEERGFLTIFEDVSGFGAWHRRWCVLSGNCISYWTYPDDEKRKNPIGRINLANCTSRQIEPANREFCARRNTFELITVRPQREDDRETLVSQCRDTLCVTKNWLSADTKEERDLWMQKLNQVLVDIRLWQPDACYKPIGKP |
| 418 | sp|P17342|ANPRC\_HUMAN | MPSLLVLTFSPCVLLGWALLAGGTGGGGVGGGGGGAGIGGGRQEREALPPQKIEVLVLLPQDDSYLFSLTRVRPAIEYALRSVEGNGTGRRLLPPGTRFQVAYEDSDCGNRALFSLVDRVAAARGAKPDLILGPVCEYAAAPVARLASHWDLPMLSAGALAAGFQHKDSEYSHLTRVAPAYAKMGEMMLALFRHHHWSRAALVYSDDKLERNCYFTLEGVHEVFQEEGLHTSIYSFDETKDLDLEDIVRNIQASERVVIMCASSDTIRSIMLVAHRHGMTSGDYAFFNIELFNSSSYGDGSWKRGDKHDFEAKQAYSSLQTVTLLRTVKPEFEKFSMEVKSSVEKQGLNMEDYVNMFVEGFHDAILLYVLALHEVLRAGYSKKDGGKIIQQTWNRTFEGIAGQVSIDANGDRYGDFSVIAMTDVEAGTQEVIGDYFGKEGRFEMRPNVKYPWGPLKLRIDENRIVEHTNSSPCKSSGGLEESAVTGIVVGALLGAGLLMAFYFFRKKYRITIERRTQQEESNLGKHRELREDSIRSHFSVA |
| 419 | sp|O00189|AP4M1\_HUMAN | MISQFFILSSKGDPLIYKDFRGDSGGRDVAELFYRKLTGLPGDESPVVMHHHGRHFIHIRHSGLYLVVTTSENVSPFSLLELLSRLATLLGDYCGSLGEGTISRNVALVYELLDEVLDYGYVQTTSTEMLRNFIQTEAVVSKPFSLFDLSSVGLFGAETQQSKVAPSSAASRPVLSSRSDQSQKNEVFLDVVERLSVLIASNGSLLKVDVQGEIRLKSFLPSGSEMRIGLTEEFCVGKSELRGYGPGIRVDEVSFHSSVNLDEFESHRILRLQPPQGELTVMRYQLSDDLPSPLPFRLFPSVQWDRGSGRLQVYLKLRCDLLSKSQALNVRLHLPLPRGVVSLSQELSSPEQKAELAEGALRWDLPRVQGGSQLSGLFQMDVPGPPGPPSHGLSTSASPLGLGPASLSFELPRHTCSGLQVRFLRLAFRPCGNANPHKWVRHLSHSDAYVIRI |
| 420 | sp|P04114|APOB\_HUMAN | MDPPRPALLALLALPALLLLLLAGARAEEEMLENVSLVCPKDATRFKHLRKYTYNYEAESSSGVPGTADSRSATRINCKVELEVPQLCSFILKTSQCTLKEVYGFNPEGKALLKKTKNSEEFAAAMSRYELKLAIPEGKQVFLYPEKDEPTYILNIKRGIISALLVPPETEEAKQVLFLDTVYGNCSTHFTVKTRKGNVATEISTERDLGQCDRFKPIRTGISPLALIKGMTRPLSTLISSSQSCQYTLDAKRKHVAEAICKEQHLFLPFSYKNKYGMVAQVTQTLKLEDTPKINSRFFGEGTKKMGLAFESTKSTSPPKQAEAVLKTLQELKKLTISEQNIQRANLFNKLVTELRGLSDEAVTSLLPQLIEVSSPITLQALVQCGQPQCSTHILQWLKRVHANPLLIDVVTYLVALIPEPSAQQLREIFNMARDQRSRATLYALSHAVNNYHKTNPTGTQELLDIANYLMEQIQDDCTGDEDYTYLILRVIGNMGQTMEQLTPELKSSILKCVQSTKPSLMIQKAAIQALRKMEPKDKDQEVLLQTFLDDASPGDKRLAAYLMLMRSPSQADINKIVQILPWEQNEQVKNFVASHIANILNSEELDIQDLKKLVKEALKESQLPTVMDFRKFSRNYQLYKSVSLPSLDPASAKIEGNLIFDPNNYLPKESMLKTTLTAFGFASADLIEIGLEGKGFEPTLEALFGKQGFFPDSVNKALYWVNGQVPDGVSKVLVDHFGYTKDDKHEQDMVNGIMLSVEKLIKDLKSKEVPEARAYLRILGEELGFASLHDLQLLGKLLLMGARTLQGIPQMIGEVIRKGSKNDFFLHYIFMENAFELPTGAGLQLQISSSGVIAPGAKAGVKLEVANMQAELVAKPSVSVEFVTNMGIIIPDFARSGVQMNTNFFHESGLEAHVALKAGKLKFIIPSPKRPVKLLSGGNTLHLVSTTKTEVIPPLIENRQSWSVCKQVFPGLNYCTSGAYSNASSTDSASYYPLTGDTRLELELRPTGEIEQYSVSATYELQREDRALVDTLKFVTQAEGAKQTEATMTFKYNRQSMTLSSEVQIPDFDVDLGTILRVNDESTEGKTSYRLTLDIQNKKITEVALMGHLSCDTKEERKIKGVISIPRLQAEARSEILAHWSPAKLLLQMDSSATAYGSTVSKRVAWHYDEEKIEFEWNTGTNVDTKKMTSNFPVDLSDYPKSLHMYANRLLDHRVPQTDMTFRHVGSKLIVAMSSWLQKASGSLPYTQTLQDHLNSLKEFNLQNMGLPDFHIPENLFLKSDGRVKYTLNKNSLKIEIPLPFGGKSSRDLKMLETVRTPALHFKSVGFHLPSREFQVPTFTIPKLYQLQVPLLGVLDLSTNVYSNLYNWSASYSGGNTSTDHFSLRARYHMKADSVVDLLSYNVQGSGETTYDHKNTFTLSYDGSLRHKFLDSNIKFSHVEKLGNNPVSKGLLIFDASSSWGPQMSASVHLDSKKKQHLFVKEVKIDGQFRVSSFYAKGTYGLSCQRDPNTGRLNGESNLRFNSSYLQGTNQITGRYEDGTLSLTSTSDLQSGIIKNTASLKYENYELTLKSDTNGKYKNFATSNKMDMTFSKQNALLRSEYQADYESLRFFSLLSGSLNSHGLELNADILGTDKINSGAHKATLRIGQDGISTSATTNLKCSLLVLENELNAELGLSGASMKLTTNGRFREHNAKFSLDGKAALTELSLGSAYQAMILGVDSKNIFNFKVSQEGLKLSNDMMGSYAEMKFDHTNSLNIAGLSLDFSSKLDNIYSSDKFYKQTVNLQLQPYSLVTTLNSDLKYNALDLTNNGKLRLEPLKLHVAGNLKGAYQNNEIKHIYAISSAALSASYKADTVAKVQGVEFSHRLNTDIAGLASAIDMSTNYNSDSLHFSNVFRSVMAPFTMTIDAHTNGNGKLALWGEHTGQLYSKFLLKAEPLAFTFSHDYKGSTSHHLVSRKSISAALEHKVSALLTPAEQTGTWKLKTQFNNNEYSQDLDAYNTKDKIGVELTGRTLADLTLLDSPIKVPLLLSEPINIIDALEMRDAVEKPQEFTIVAFVKYDKNQDVHSINLPFFETLQEYFERNRQTIIVVLENVQRNLKHINIDQFVRKYRAALGKLPQQANDYLNSFNWERQVSHAKEKLTALTKKYRITENDIQIALDDAKINFNEKLSQLQTYMIQFDQYIKDSYDLHDLKIAIANIIDEIIEKLKSLDEHYHIRVNLVKTIHDLHLFIENIDFNKSGSSTASWIQNVDTKYQIRIQIQEKLQQLKRHIQNIDIQHLAGKLKQHIEAIDVRVLLDQLGTTISFERINDILEHVKHFVINLIGDFEVAEKINAFRAKVHELIERYEVDQQIQVLMDKLVELAHQYKLKETIQKLSNVLQQVKIKDYFEKLVGFIDDAVKKLNELSFKTFIEDVNKFLDMLIKKLKSFDYHQFVDETNDKIREVTQRLNGEIQALELPQKAEALKLFLEETKATVAVYLESLQDTKITLIINWLQEALSSASLAHMKAKFRETLEDTRDRMYQMDIQQELQRYLSLVGQVYSTLVTYISDWWTLAAKNLTDFAEQYSIQDWAKRMKALVEQGFTVPEIKTILGTMPAFEVSLQALQKATFQTPDFIVPLTDLRIPSVQINFKDLKNIKIPSRFSTPEFTILNTFHIPSFTIDFVEMKVKIIRTIDQMLNSELQWPVPDIYLRDLKVEDIPLARITLPDFRLPEIAIPEFIIPTLNLNDFQVPDLHIPEFQLPHISHTIEVPTFGKLYSILKIQSPLFTLDANADIGNGTTSANEAGIAASITAKGESKLEVLNFDFQANAQLSNPKINPLALKESVKFSSKYLRTEHGSEMLFFGNAIEGKSNTVASLHTEKNTLELSNGVIVKINNQLTLDSNTKYFHKLNIPKLDFSSQADLRNEIKTLLKAGHIAWTSSGKGSWKWACPRFSDEGTHESQISFTIEGPLTSFGLSNKINSKHLRVNQNLVYESGSLNFSKLEIQSQVDSQHVGHSVLTAKGMALFGEGKAEFTGRHDAHLNGKVIGTLKNSLFFSAQPFEITASTNNEGNLKVRFPLRLTGKIDFLNNYALFLSPSAQQASWQVSARFNQYKYNQNFSAGNNENIMEAHVGINGEANLDFLNIPLTIPEMRLPYTIITTPPLKDFSLWEKTGLKEFLKTTKQSFDLSVKAQYKKNKHRHSITNPLAVLCEFISQSIKSFDRHFEKNRNNALDFVTKSYNETKIKFDKYKAEKSHDELPRTFQIPGYTVPVVNVEVSPFTIEMSAFGYVFPKAVSMPSFSILGSDVRVPSYTLILPSLELPVLHVPRNLKLSLPDFKELCTISHIFIPAMGNITYDFSFKSSVITLNTNAELFNQSDIVAHLLSSSSSVIDALQYKLEGTTRLTRKRGLKLATALSLSNKFVEGSHNSTVSLTTKNMEVSVATTTKAQIPILRMNFKQELNGNTKSKPTVSSSMEFKYDFNSSMLYSTAKGAVDHKLSLESLTSYFSIESSTKGDVKGSVLSREYSGTIASEANTYLNSKSTRSSVKLQGTSKIDDIWNLEVKENFAGEATLQRIYSLWEHSTKNHLQLEGLFFTNGEHTSKATLELSPWQMSALVQVHASQPSSFHDFPDLGQEVALNANTKNQKIRWKNEVRIHSGSFQSQVELSNDQEKAHLDIAGSLEGHLRFLKNIILPVYDKSLWDFLKLDVTTSIGRRQHLRVSTAFVYTKNPNGYSFSIPVKVLADKFIIPGLKLNDLNSVLVMPTFHVPFTDLQVPSCKLDFREIQIYKKLRTSSFALNLPTLPEVKFPEVDVLTKYSQPEDSLIPFFEITVPESQLTVSQFTLPKSVSDGIAALDLNAVANKIADFELPTIIVPEQTIEIPSIKFSVPAGIVIPSFQALTARFEVDSPVYNATWSASLKNKADYVETVLDSTCSSTVQFLEYELNVLGTHKIEDGTLASKTKGTFAHRDFSAEYEEDGKYEGLQEWEGKAHLNIKSPAFTDLHLRYQKDKKGISTSAASPAVGTVGMDMDEDDDFSKWNFYYSPQSSPDKKLTIFKTELRVRESDEETQIKVNWEEEAASGLLTSLKDNVPKATGVLYDYVNKYHWEHTGLTLREVSSKLRRNLQNNAEWVYQGAIRQIDDIDVRFQKAASGTTGTYQEWKDKAQNLYQELLTQEGQASFQGLKDNVFDGLVRVTQEFHMKVKHLIDSLIDFLNFPRFQFPGKPGIYTREELCTMFIREVGTVLSQVYSKVHNGSEILFSYFQDLVITLPFELRKHKLIDVISMYRELLKDLSKEAQEVFKAIQSLKTTEVLRNLQDLLQFIFQLIEDNIKQLKEMKFTYLINYIQDEINTIFSDYIPYVFKLLKENLCLNLHKFNEFIQNELQEASQELQQIHQYIMALREEYFDPSIVGWTVKYYELEEKIVSLIKNLLVALKDFHSEYIVSASNFTSQLSSQVEQFLHRNIQEYLSILTDPDGKGKEKIAELSATAQEIIKSQAIATKKIISDYHQQFRYKLQDFSDQLSDYYEKFIAESKRLIDLSIQNYHTFLIYITELLKKLQSTTVMNPYMKLAPGELTIIL |
| 421 | sp|P05024|AT1A1\_PIG | MGKGVGRDKYEPAAVSEHGDKKKAKKERDMDELKKEVSMDDHKLSLDELHRKYGTDLSRGLTPARAAEILARDGPNALTPPPTTPEWVKFCRQLFGGFSMLLWIGAILCFLAYGIQAATEEEPQNDNLYLGVVLSAVVIITGCFSYYQEAKSSKIMESFKNMVPQQALVIRNGEKMSINAEEVVVGDLVEVKGGDRIPADLRIISANGCKVDNSSLTGESEPQTRSPDFTNENPLETRNIAFFSTNCVEGTARGIVVYTGDRTVMGRIATLASGLEGGQTPIAAEIEHFIHIITGVAVFLGVSFFILSLILEYTWLEAVIFLIGIIVANVPEGLLATVTVCLTLTAKRMARKNCLVKNLEAVETLGSTSTICSDKTGTLTQNRMTVAHMWSDNQIHEADTTENQSGVSFDKTSATWLALSRIAGLCNRAVFQANQENLPILKRAVAGDASESALLKCIELCCGSVKEMRERYTKIVEIPFNSTNKYQLSIHKNPNTAEPRHLLVMKGAPERILDRCSSILIHGKEQPLDEELKDAFQNAYLELGGLGERVLGFCHLFLPDEQFPEGFQFDTDDVNFPLDNLCFVGLISMIDPPRAAVPDAVGKCRSAGIKVIMVTGDHPITAKAIAKGVGIISEGNETVEDIAARLNIPVSQVNPRDAKACVVHGSDLKDMTSEQLDDILKYHTEIVFARTSPQQKLIIVEGCQRQGAIVAVTGDGVNDSPASKKADIGVAMGIAGSDVSKQAADMILLDDNFASIVTGVEEGRLIFDNLKKSIAYTLTSNIPEITPFLIFIIANIPLPLGTVTILCIDLGTDMVPAISLAYEQAESDIMKRQPRNPKTDKLVNEQLISMAYGQIGMIQALGGFFTYFVILAENGFLPIHLLGLRVNWDDRWINDVEDSYGQQWTYEQRKIVEFTCHTPFFVTIVVVQWADLVICKTRRNSVFQQGMKNKILIFGLFEETALAAFLSYCPGMGVALRMYPLKPTWWFCAFPYSLLIFVYDEVRKLIIRRRPGGWVEKETYY |
| 422 | sp|Q9WV06|ANKR2\_MOUSE | MEGPEAVQRATELIEQRLAQEEETEKLRRSAPGKLSMDMLVLEEEKRLGVQSPALQKVKGQERVRKTSLDLRREIIDVGGIQNLIELRKKRKQKKRDALAAAQEPPPEPEEITGPVNEETFLKAAVEGKMKVIDKYLADGGSADTCDEFRRTALHRASLEGHMEILEKLLENGATVDFQDRLDCTAMHWACRGGHLEVVRLLQSRGADTNVRDKLLSTPLHVAVRTGHVEIVEHFLSLGLDINAKDREGDSALHDAVRLNRYKIIKLLLLHGADMMAKNLAGKTPTDLVQLWQADTRHALEHPEPESEQNGLERPGSGRETPQPIPAQ |
| 423 | sp|Q7Z6R9|AP2D\_HUMAN | MSTTFPGLVHDAEIRHDGSNSYRLMQLGCLESVANSTVAYSSSSPLTYSTTGTEFASPYFSTNHQYTPLHHQSFHYEFQHSHPAVTPDAYSLNSLHHSQQYYQQIHHGEPTDFINLHNARALKSSCLDEQRRELGCLDAYRRHDLSLMSHGSQYGMHPDQRLLPGPSLGLAAAGADDLQGSVEAQCGLVLNGQGGVIRRGGTCVVNPTDLFCSVPGRLSLLSSTSKYKVTIAEVKRRLSPPECLNASLLGGILRRAKSKNGGRCLREKLDRLGLNLPAGRRKAANVTLLTSLVEGEALHLARDFGYTCETEFPAKAVGEHLARQHMEQKEQTARKKMILATKQICKEFQDLLSQDRSPLGSSRPTPILDLDIQRHLTHFSLITHGFGTPAICAALSTFQTVLSEMLNYLEKHTTHKNGGAADSGQGHANSEKAPLRKTSEAAVKEGKTEKTD |
| 424 | sp|P07355|ANXA2\_HUMAN | MSTVHEILCKLSLEGDHSTPPSAYGSVKAYTNFDAERDALNIETAIKTKGVDEVTIVNILTNRSNAQRQDIAFAYQRRTKKELASALKSALSGHLETVILGLLKTPAQYDASELKASMKGLGTDEDSLIEIICSRTNQELQEINRVYKEMYKTDLEKDIISDTSGDFRKLMVALAKGRRAEDGSVIDYELIDQDARDLYDAGVKRKGTDVPKWISIMTERSVPHLQKVFDRYKSYSPYDMLESIRKEVKGDLENAFLNLVQCIQNKPLYFADRLYDSMKGKGTRDKVLIRIMVSRSEVDMLKIRSEFKRKYGKSLYYYIQQDTKGDYQKALLYLCGGDD |
| 425 | sp|Q9UJX6|ANC2\_HUMAN | MAAAVVVAEGDSDSRPGQELLVAWNTVSTGLVPPAALGLVSSRTSGAVPPKEEELRAAVEVLRGHGLHSVLEEWFVEVLQNDLQANISPEFWNAISQCENSADEPQCLLLLLDAFGLLESRLDPYLRSLELLEKWTRLGLLMGTGAQGLREEVHTMLRGVLFFSTPRTFQEMIQRLYGCFLRVYMQSKRKGEGGTDPELEGELDSRYARRRYYRLLQSPLCAGCSSDKQQCWCRQALEQFHQLSQVLHRLSLLERVSAEAVTTTLHQVTRERMEDRCRGEYERSFLREFHKWIERVVGWLGKVFLQDGPARPASPEAGNTLRRWRCHVQRFFYRIYASLRIEELFSIVRDFPDSRPAIEDLKYCLERTDQRQQLLVSLKAALETRLLHPGVNTCDIITLYISAIKALRVLDPSMVILEVACEPIRRYLRTREDTVRQIVAGLTGDSDGTGDLAVELSKTDPASLETGQDSEDDSGEPEDWVPDPVDADPGKSSSKRRSSDIISLLVSIYGSKDLFINEYRSLLADRLLHQFSFSPEREIRNVELLKLRFGEAPMHFCEVMLKDMADSRRINANIREEDEKRPAEEQPPFGVYAVILSSEFWPPFKDEKLEVPEDIRAALEAYCKKYEQLKAMRTLSWKHTLGLVTMDVELADRTLSVAVTPVQAVILLYFQDQASWTLEELSKAVKMPVALLRRRMSVWLQQGVLREEPPGTFSVIEEERPQDRDNMVLIDSDDESDSGMASQADQKEEELLLFWTYIQAMLTNLESLSLDRIYNMLRMFVVTGPALAEIDLQELQGYLQKKVRDQQLVYSAGVYRLPKNCS |
| 426 | sp|Q64518|AT2A3\_MOUSE | MEEAHLLSAADVLRRFSVTAEGGLSLEQVTDARERYGPNELPTEEGKSLWELVVEQFEDLLVRILLLAALVSFVLAWFEEGEETTTAFVEPLVIMLILVANAIVGVWQERNAESAIEALKEYEPEMGKVIRSDRKGVQRIRARDIVPGDIVEVAVGDKVPADLRLIEIKSTTLRVDQSILTGESVSVTKHTDAIPDPRAVNQDKKNMLFSGTNIASGKALGVAVATGLQTELGKIRSQMAAVEPERTPLQRKLDEFGRQLSHAISVICVAVWVINIGHFADPAHGGSWLRGAVYYFKIAVALAVAAIPEGLPAVITTCLALGTRRMARKNAIVRSLPSVETLGCTSVICSDKTGTLTTNQMSVCRMFVVAEAEAGTCRLHEFTISGTTYTPEGEVRQGEQPVRCGQFDGLVELATICALCNDSALDYNEAKGVYEKVGEATETALTCLVEKMNVFDTDLKGLSRVERAGACNSVIKQLMRKEFTLEFSRDRKSMSVYCTPTRADPKVQGSKMFVKGAPESVIERCSSVRVGSRTAPLSTTSREHILAKIRDWGSGSDTLRCLALATRDTPPRKEDMHLDDCSRFVQYETDLTFVGCVGMLDPPRPEVAACITRCSRAGIRVVMITGDNKGTAVAICRRLGIFGDTEDVLGKAYTGREFDDLSPEQQRQACRTARCFARVEPAHKSRIVENLQSFNEITAMTGDGVNDAPALKKAEIGIAMGSGTAVAKSAAEMVLSDDNFASIVAAVEEGRAIYNNMKQFIRYLISSNVGEVVCIFLTAILGLPEALIPVQLLWVNLVTDGLPATALGFNPPDLDIMEKPPRNPREALISGWLFFRYLAIGVYVGLATVAAATWWFLYDTEGPQVTFYQLRNFLKCSEDNPLFAGIDCKVFESRFPTTMALSVLVTIEMCNALNSVSENQSLLRMPPWLNPWLLGAVVMSMALHFLILLVPPLPLIFQVTPLSGRQWGVVLQMSLPVILLDEALKYLSRNHMDGVLGTFMQARSRQLPTTSRTPYHTGKKGPEVNPGSRGESPVWPSD |
| 427 | sp|Q8WXI3|ASB10\_HUMAN | MLMSWSPEECKGQGEPLDDRHPLCARLVEKPSRGSEEHLKSGPGPIVTRTASGPALAFWQAVLAGDVGCVSRILADSSTGLAPDSVFDTSDPERWRDFRFNIRALRLWSLTYEEELTTPLHVAASRGHTEVLRLLLRRRARPDSAPGGRTALHEACAAGHTACVHVLLVAGADPNIADQDGKRPLHLCRGPGTLECAELLLRFGARVDGRSEEEEETPLHVAARLGHVELADLLLRRGACPDARNAEGWTPLLAACDVRCQSITDAEATTARCLQLCSLLLSAGADADAADQDKQRPLHLACRRGHAAVVELLLSCGVSANTMDYGGHTPLHCALQGPAAALAQSPEHVVRALLNHGAVRVWPGALPKVLERWSTCPRTIEVLMNTYSVVQLPEEAVGLVTPETLQKHQRFYSSLFALVRQPRSLQHLSRCALRSHLEGSLPQALPRLPLPPRLLRYLQLDFEGVLY |
| 428 | sp|Q03288|ASIP\_MOUSE | MDVTRLLLATLVGFLCFFTVHSHLALEETLGDDRSLRSNSSMNSLDFSSVSIVALNKKSKKISRKEAEKRKRSSKKKASMKKVARPPPPSPCVATRDSCKPPAPACCDPCASCQCRFFGSACTCRVLNPNC |
| 429 | sp|P61158|ARP3\_HUMAN | MAGRLPACVVDCGTGYTKLGYAGNTEPQFIIPSCIAIKESAKVGDQAQRRVMKGVDDLDFFIGDEAIEKPTYATKWPIRHGIVEDWDLMERFMEQVIFKYLRAEPEDHYFLLTEPPLNTPENREYTAEIMFESFNVPGLYIAVQAVLALAASWTSRQVGERTLTGTVIDSGDGVTHVIPVAEGYVIGSCIKHIPIAGRDITYFIQQLLRDREVGIPPEQSLETAKAVKERYSYVCPDLVKEFNKYDTDGSKWIKQYTGINAISKKEFSIDVGYERFLGPEIFFHPEFANPDFTQPISEVVDEVIQNCPIDVRRPLYKNIVLSGGSTMFRDFGRRLQRDLKRTVDARLKLSEELSGGRLKPKPIDVQVITHHMQRYAVWFGGSMLASTPEFYQVCHTKKDYEEIGPSICRHNPVFGVMS |
| 430 | sp|G3V909|ATF6A\_RAT | MESPFSPVLPHGPGEDWESTLFAELGYFTDTDDVQFDAAHETYENNFDHLNFDLDLMPWESDIWSPSSHFCSDIKAEPQPLSPASSSCSVSSPRSTDSCSSTQHVPEELDLLSSSQSPLSLYGDSCHSPSSAEPLKEEKPVTGPGNKTEHGLTPKKKIQMSSKPSVQPKPLLLPAAPKTPANASVPAKTIIIQTLPALMPLAKQQSIISIQPAPTKGQTVLLSQPAVVQLQTPGVLPSAQPVLAVTGGATQLPNHVVNVVPAPVVNSPVNGKLCVTKPVLQSSTRSTGSDIAVLRRQQRMIKNRESACQSRKKKKEYMLGLEARLKAALSENEQLKKENGSLKRQLDQVVSENQRLKVPSPKRRAVCVMIVLAFIMLNYGPMSMLEQDSRRVKPSVSPANQRRHLLEFSAKEVKDTSDGDNQKNSYRYDHSVSNDKALMVLSEEPLLYIPPPPCQPLINTTESLRLNHELRGWVHRHEVERTKSRRMTNSQQKTRILQGALEQGSNSQLMAVQYTETTSISRNSGSELQVYYASPGSYQGFFDAIRRRGDTFYVVSFRRDHLLLPATTHNKTTRPKMSIVLPAININDNVINGQDYEVMMQIDCQVMDTRILHIKSSSVPPYLRDHQRNQTSTFFGSPPTATETTHVVSTLPESVQ |
| 431 | sp|Q5A5Q6|ASH1\_CANAL | MSLVQSAMFNHHMGPSHTRSRSFELFQEAKTLRVAACKRSYSDDLNISTKRARTAPPSPPYETATPTRASRLVISNLVKPTSNLRSRSLSPNKKFSSPLSPSSSPIATVTSPISSPQNIKIKLPSISDALNLPPITSKEPVKLKPIVPTVSLDYFDTYKPNDENWRYGLLDKIAKESKHFHLNQYNYLNDHAKPSFDSKLSSKIQQSSIANGKKINFPYESNYTYLNKTYLNDVKNYPEYLELAAESLLQLKERQLPPPPLQSHQKQHPPPPPHLPVQGLLPVPAPPVSHFSSSYTTPQAPTFYHPPSQQQQQTPPPQTLHHQQPQPPISTHKFIPISPPSAKKSRSDLLKSPPKHHHHHAPRVCISCGSDQSPCWRPSWSIKQGQLCNSCGLRYKKTKARCLNDKCKKIPAKGEWTLMQSKGKETFEDGIEGYSCIACGWRVEVLPKS |
| 432 | sp|P0CZ17|ASP21\_YEAST | MRSLNTLLLSLFVAMSSGAPLLKIREEKNSSLPSIKIFGTGGTIASKGSTSATTAGYSVGLTVNDLIEAVPSLAEKANLDYLQVSNVGSNSLNYTHLIPLYHGISEALASDDYAGAVVTHGTDTMEETAFFLDLTINSEKPVCIAGAMRPATATSADGPMNLYQAVSIAASEKSLGRGTMITLNDRIASGFWTTKMNANSLDTFRADEQGYLGYFSNDDVEFYYPPVKPNGWQFFDISNLTDPSEIPEVIILYSYQGLNPELIVKAVKDLGAKGIVLAGSGAGSWTATGSIVNEQLYEEYGIPIVHSRRTADGTVPPDDAPEYAIGSGYLNPQKSRILLQLCLYSGYGMDQIRSVFSGVYGG |
| 433 | sp|Q06596|ARR1\_YEAST | MAKPRGRKGGRKPSLTPPKNKRAAQLRASQNAFRKRKLERLEELEKKEAQLTVTNDQIHILKKENELLHFMLRSLLTERNMPSDERNISKACCEEKPPTCNTLDGSVVLSSTYNSLEIQQCYVFFKQLLSVCVGKNCTVPSPLNSFDRSFYPIGCTNLSNDIPGYSFLNDAMSEIHTFGDFNGELDSTFLEFSGTEIKEPNNFITENTNAIETAAASMVIRQGFHPRQYYTVDAFGGDVLLSAMDIWSFMKVHPKVNTFDLEILGTELKKSATCSNFDILISLKHFIKVFSSKL |
| 434 | sp|P40344|ATG3\_YEAST | MIRSTLSSWREYLTPITHKSTFLTTGQITPEEFVQAGDYLCHMFPTWKWNEESSDISYRDFLPKNKQFLIIRKVPCDKRAEQCVEVEGPDVIMKGFAEDGDEDDVLEYIGSETEHVQSTPAGGTKDSSIDDIDELIQDMEIKEEDENDDTEEFNAKGGLAKDMAQERYYDLYIAYSTSYRVPKMYIVGFNSNGSPLSPEQMFEDISADYRTKTATIEKLPFYKNSVLSVSIHPCKHANVMKILLDKVRVVRQRRRKELQEEQELDGVGDWEDLQDDIDDSLRVDQYLIVFLKFITSVTPSIQHDYTMEGW |
| 435 | sp|Q9CPX6|ATG3\_MOUSE | MQNVINTVKGKALEVAEYLTPVLKESKFKETGVITPEEFVAAGDHLVHHCPTWQWATGEELKVKAYLPTDKQFLVTKNVPCYKRCKQMEYSDELEAIIEEDDGDGGWVDTYHNTGITGITEAVKEITLESKDSIKLQDCSALCDEEDEEDEGEAADMEEYEESGLLETDEATLDTRKIVEACKAKADAGGEDAILQTRTYDLYITYDKYYQTPRLWLFGYDEQRQPLTVEHMYEDISQDHVKKTVTIENHPHLPPPPMCSVHPCRHAEVMKKIIETVAEGGGELGVHMYLLIFLKFVQAVIPTIEYDYTRHFTM |
| 436 | sp|O80366|ARR9\_ARATH | MGMAAESQFHVLAVDDSLFDRKLIERLLQKSSCQVTTVDSGSKALEFLGLRQSTDSNDPNAFSKAPVNHQVVEVNLIITDYCMPGMTGYDLLKKVKESSAFRDIPVVIMSSENVPARISRCLEEGAEEFFLKPVRLADLNKLKPHMMKTKLKNQKLEEIETTSKVENGVPTAVADPEIKDSTNIEIEILPLQQDLLLVQQEEQTLSINNKRKSVEEGISTDRARPRFDGIATAV |
| 437 | sp|O96623|ARPC2\_DICDI | MLLLETHNRILYDEVISHFEGDRRVNNIFADFDGVKFNVQTSDDKSSLMVSVSLHAAADLLKNGGSALLKSVYGDMLQAKPEGGYDVTLVIQSSFSGNKEELAKKVSLLKRHLVAAPFLMVFEGIEAKKPLPEIIAINYRTDETFYLKPQGDNVIVIFDIAFKDADDVILSKIFLQSFVDVRKTISNVPSITFSQKDPPLELKGVKGVRAGQANHGFVSFVLFPAHIKKPQESADLIQTFRDYLHYHIKCAKGYMHTSMRNRVESLIQVLNRAKPEPVNTVKRTITGKFFKQN |
| 438 | sp|O15145|ARPC3\_HUMAN | MPAYHSSLMDPDTKLIGNMALLPIRSQFKGPAPRETKDTDIVDEAIYYFKANVFFKNYEIKNEADRTLIYITLYISECLKKLQKCNSKSQGEKEMYTLGITNFPIPGEPGFPLNAIYAKPANKQEDEVMRAYLQQLRQETGLRLCEKVFDPQNDKPSKWWTCFVKRQFMNKSLSGPGQ |
| 439 | sp|C7GIN5|ARO1\_YEAS2 | MVQLAKVPILGNDIIHVGYNIHDHLVETIIKHCPSSTYVICNDTNLSKVPYYQQLVLEFKASLPEGSRLLTYVVKPGETSKSRETKAQLEDYLLVEGCTRDTVMIAIGGGVIGDMIGFVASTFMRGVRVVQVPTSLLAMVDSSIGGKTAIDTPLGKNFIGAFWQPKFVLVDIKWLETLAKREFINGMAEVIKTACIWNADEFTRLESNASLFLNVVNGAKNVKVTNQLTNEIDEISNTDIEAMLDHTYKLVLESIKVKAEVVSSDERESSLRNLLNFGHSIGHAYEAILTPQALHGECVSIGMVKEAELSRYFGILSPTQVARLSKILVAYGLPVSPDEKWFKELTLHKKTPLDILLKKMSIDKKNEGSKKKVVILESIGKCYGDSAQFVSDEDLRFILTDETLVYPFKDIPADQQKVVIPPGSKSISNRALIIAALGEGQCKIKNLLHSDDTKHMLTAVHELKGATISWEDNGETVVVEGHGGSTLSACADPLYLGNAGTASRFLTSLAALVNSTPSQKYIVLTGNARMQQRPIAPLVDSLRANGTKIEYLNNEGSLPIKVYTDSVFKGGRIELAATVSSQYVSSILMCAPYAEEPVTLALVGGKPISKLYVDMTIKMMEKFGINVETSTTEPYTYYIPKGHYINPSEYVIESDASSATYPLAFAAMTGTTVTVPNIGFESLQGDARFARDVLKPMGCKITQTATSTTVSGPPVGTLKPLKHVDMEPMTDAFLTACVVAAISHDSDPNSANTTTIEGIANQRVKECNRILAMATELAKFGVKTTELPDGIQVHGLNSIKDLKVPSDSSGPVGVCTYDDHRVAMSFSLLAGMVNSQNERDEVANPVRILERHCTGKTWPGWWDVLHSELGAKLDGAEPLECTSKKNSKKSVVIIGMRAAGKTTISKWCASALGYKLVDLDELFEQQHNNQSVKQFVVENGWEKFREEETRIFKEVIQNYGDDGYVFSTGGGIVESAESRKALKDFASSGGYVLHLHRDIEETIVFLQSDPSRPAYVEEIREVWNRREEWYKECSNFSFFAPHCSAEAEFQALRRSFSKYIATITGVREIEIPSGRSAFVCLTFDDLTEQTENLTPICYGCEAVEVRVDHLANYSADFVSKQLSILRKATDSIPIIFTVRTKKQGGNFPDEEFKTLRELYDIALKNGVEFLDLELTLPTDIQYEVINKRGNTKIIGSHHDFQGLYSWDDAEWENRFNQALTLDVDVVKFVGTAVNFEDNLRLEHFRDTHKNKPLIAVNMTSKGSISRVLNNVLTPVTSDLLPNSAAPGQLTVAQINKMYTSMGGIEPKELFVVGKPIGHSRSPILHNTGYEILGLPHKFDKFETESAQLVKEKLLDGNKNFGGAAVTIPLKLDIMQYMDELTDAAKVIGAVNTVIPLGNKKFKGDNTDWLGIRNALINNGVPEYVGHTAGLVIGAGGTSRAALYALHSLGCKKIFIINRTTSKLKPLIESLPSEFNIIGIESTKSIEEIKEHVGVAVSCVPADKPLDDELLSKLERFLVKGAHAAFAPTLLEAAYKPSVTPVMTISQDKYQWHVVPGSQMLVHQGVAQFEKWTGFKAPFKAIFDAVTKE |
| 440 | sp|C5G8R4|ARO1\_AJEDR | MGVPTKISILGRESIVADFGIWRNYVAKDLLNSCSSSTYILISDTNITPLYLDGFQKSFDDAAANLSPKPRLLTYEIPPGESSKSRETKAGIEDWMLTRQPPCGRDTVIIALGGGVIGDLIGFVAATYMRGVRFVQVPTTLLAMVDSSIGGKTAIDTPNGKNLIGAIWQPQRIYLDMEFLNTLPEREFINGMAEVIKTAAISSEEKFAALEDDAEIILAAVKSKNTPERPRFSGIEETLKRTILSSAEFKAQVVSADEREGGLRNLLNFGHSIGHAIEAILAPQVLHGECVAIGMVKEAELARHLGILNNVSVSRISKCLASYGLPTSLKDERIRKLTADKHCSVEQLITYMGVDKKNDGPKKKVVLLSAIGRTHEPRASTVSNEEIQIVLAPSIEVSPGVPKNLNVTCTPPGSKSISNRALVLAALGSGTCRLKNLLHSDDTEVMLNALERLGAATFSWENEGEVLVVNGKGGKMKASPDELYLGNAGTASRFLTTVATLAQKSSVDSSVLTGNARMKQRPIGDLVDALAANGAGVEYLENSGSLPLKIAASGGFAGGEINLAAKVSSQYVSSLLMCAPYAKKPVTLRLVGGKPISQTYIDMTTTMMRSFGIDVKKSETEEHTYHIPLGFYISPAEYIVESDASSSTYPLAVAAITGTSCTVPNIGSKSLQGDARFAVEVLRPMGCTVDQKDFSTTVTGPANGILRPLPNVDMEPMTDAFLTASVLAAVARGGGSNHTTRIFGIANQRVKECNRIKAMKDELAKFGVTCREHDDGLEIDGIDRSTLRHPSDGVYCYDDHRVAMSFSVLSLVAPQPTLILEKECVGKTWPGWWDSLAQTFKVKLDGKEVEKKTGRGGIVHLDKPAASIFIIGMRGAGKTTSGVWVSKALQRPFIDLDDELERTEGMTIPEIIKQRGWEGFREAELSLLRRVMTEKPTRYIFACGGGIVETPEARKLLIQYHKTKGNVILVMRDIKEIMDFLKIDKTRPAYVEDMMSVWLRRKPWYQECSNVQYFSRLTGLDGMAQVLGGFNRFLKVITGQVDSLAQMRSKENTFFVSLTLPDLAPAAPILKEVTLGSDAVELRVDLLKDPQSDSEIPSVDYVAEQISVLRSRTSVPLVFTIRTKAQGGRFPDDAYDAALQLYRLAIRMGSEFVDLEISFPEQLLRTVTEMKGFSKIIASHHDPKGELSWANGSWIQFYNKALQYGDVIKLVGVARSLDDNASLKKFKTWAEEKHDVPIIAINMGDKGQLSRMLNGFMTPVSHPSLPFKAAPGQLSAREIRKGLSLIGEIKSKKFAVIGNPVSASRSPAMHNALFRQMGLPHIYGTLETEDPEIVKKFIRSPDFGGASITIPLKLDIMPLLDEIAPEAVSIGAVNTIVCAPPAPDDQSQAPRLIGRNTDWQGMVRCLSDAGAYPAATPTTTSAGLVIGGGGTARAAIFALQSMGYSPIYVVGRSPDKLSSMTSTFAPDHDIRILEDVKALESLPTVAIGTIPGDKPIEPHMREILCELFDLCEKANSDAEQARGISTKRILLEMAYKPSVTSLMQLASDSGWTVLPGLEALVAQGVYQCEYWTDITPVYEDARNAVMGVQPKDDDIST |
| 441 | sp|Q8K2G4|BBS7\_MOUSE | MDLTLSRADYLQVGVTSQKTMKLLPTSRQRATQKVVVGDQDGVVICFGVKKGEAVPVFKTLPGQKISRLELGGAVNTPQEKIFIAAGSEIRGFTKRGKQFLSFETNLTESIKAMYISGSDLFLSASYIYNHYCDCKDQNYYLSGDKINDVICLPVEKLSRVTPVLACQDRVLRVLQGSDVMYEIEVPGPPTVLALHNGDGGDSGEGLLFGTSDGRLGLIQITTSKPIHKWEIRNDKKRGGILCVDSFDIMGDGVKDLLVGRDDGMVEVYSFENANEPVLRFDQMLSESVTSIQGGCVGKDGYDEIVLATYSGWVTGLTTEPTHKESGPGEELKLNQEMQNKISSLRSEIEHLQFKVLQERENYQQSSQSSQAKSTVPSFSINDKFTLNKEDASYSLVLEVRTAIDNVLIQSDVPIDLLDVDKNSAVVSFSSCDTESNDNFLLATYRCQANTTRLELKIRSIEGQYGTLQAYVTPRIQPKTCQVRQYHIKPLSLHQRTHFIDHDRPMNTLTLTGQFSFAEVHSWVVFCLPEVPEKPPAGECATFYFQNTFLDTQLECVYRKGEGVFKSDNISTISILKDVLSKEATKRKINLNISYEINEVSVKHTLKLIHPKLEYQLLLAKKVQLIDALKELQVHEGNTDFLTPEYRCILEEADHLQEEYKKQPAHLERLYGMITDLFIDKFKFKGTNVKTKVPMLLEILDSYDQNTLISFFDAA |
| 442 | sp|O70305|ATX2\_MOUSE | MRSSTAAVQRPAAGDPEPRRPAGWAARRSLPRTARRGGRGGAVAYPSAGPPPRGPGAPPRGPRSPPCASDCFGSNGHGASRPGSRRLLGVCGPPRPFVVVLLALAPAATPARACPPGVRASPPRSGVSSSARPAPGCPRPACEPVYGPLTMSLKPQPQPPAPATGRKPGGGLLSSPGAAPASAAVTSASVVPAPAAPVASSSAAAGGGRPGLGRGRNSSKGLPQPTISFDGIYANVRMVHILTSVVGSKCEVQVKNGGIYEGVFKTYSPKCDLVLDAAHEKSTESSSGPKREEIMESVLFKCSDFVVVQFKDTDSSYARRDAFTDSALSAKVNGEHKEKDLEPWDAGELTASEELELENDVSNGWDPNDMFRYNEENYGVVSTYDSSLSSYTVPLERDNSEEFLKREARANQLAEEIESSAQYKARVALENDDRSEEEKYTAVQRNCSDREGHGPNTRDNKYIPPGQRNREVLSWGSGRQSSPRMGQPGPGSMPSRAASHTSDFNPNAGSDQRVVNGGVPWPSPCPSHSSRPPSRYQSGPNSLPPRAATHTRPPSRPPSRPSRPPSHPSAHGSPAPVSTMPKRMSSEGPPRMSPKAQRHPRNHRVSAGRGSMSSGLEFVSHNPPSEAAAPPVARTSPAGGTWSSVVSGVPRLSPKTHRPRSPRQSSIGNSPSGPVLASPQAGIIPAEAVSMPVPAASPTPASPASNRALTPSIEAKDSRLQDQRQNSPAGSKENVKASETSPSFSKADNKGMSPVVSEHRKQIDDLKKFKNDFRLQPSSTSESMDQLLSKNREGEKSRDLIKDKTEASAKDSFIDSSSSSSNCTSGSSKTNSPSISPSMLSNAEHKRGPEVTSQGVQTSSPACKQEKDDREEKKDTTEQVRKSTLNPNAKEFNPRSFSQPKPSTTPTSPRPQAQPSPSMVGHQQPAPVYTQPVCFAPNMMYPVPVSPGVQPLYPIPMTPMPVNQAKTYRAGKVPNMPQQRQDQHHQSTMMHPASAAGPPIVATPPAYSTQYVAYSPQQFPNQPLVQHVPHYQSQHPHVYSPVIQGNARMMAPPAHAQPGLVSSSAAQFGAHEQTHAMYACPKLPYNKETSPSFYFAISTGSLAQQYAHPNAALHPHTPHPQPSATPTGQQQSQHGGSHPAPSPVQHHQHQAAQALHLASPQQQSAIYHAGLAPTPPSMTPASNTQSPQSSFPAAQQTVFTIHPSHVQPAYTTPPHMAHVPQAHVQSGMVPSHPTAHAPMMLMTTQPPGPKAALAQSALQPIPVSTTAHFPYMTHPSVQAHHQQQL |
| 443 | sp|Q13873|BMPR2\_HUMAN | MTSSLQRPWRVPWLPWTILLVSTAAASQNQERLCAFKDPYQQDLGIGESRISHENGTILCSKGSTCYGLWEKSKGDINLVKQGCWSHIGDPQECHYEECVVTTTPPSIQNGTYRFCCCSTDLCNVNFTENFPPPDTTPLSPPHSFNRDETIIIALASVSVLAVLIVALCFGYRMLTGDRKQGLHSMNMMEAAASEPSLDLDNLKLLELIGRGRYGAVYKGSLDERPVAVKVFSFANRQNFINEKNIYRVPLMEHDNIARFIVGDERVTADGRMEYLLVMEYYPNGSLCKYLSLHTSDWVSSCRLAHSVTRGLAYLHTELPRGDHYKPAISHRDLNSRNVLVKNDGTCVISDFGLSMRLTGNRLVRPGEEDNAAISEVGTIRYMAPEVLEGAVNLRDCESALKQVDMYALGLIYWEIFMRCTDLFPGESVPEYQMAFQTEVGNHPTFEDMQVLVSREKQRPKFPEAWKENSLAVRSLKETIEDCWDQDAEARLTAQCAEERMAELMMIWERNKSVSPTVNPMSTAMQNERNLSHNRRVPKIGPYPDYSSSSYIEDSIHHTDSIVKNISSEHSMSSTPLTIGEKNRNSINYERQQAQARIPSPETSVTSLSTNTTTTNTTGLTPSTGMTTISEMPYPDETNLHTTNVAQSIGPTPVCLQLTEEDLETNKLDPKEVDKNLKESSDENLMEHSLKQFSGPDPLSSTSSSLLYPLIKLAVEATGQQDFTQTANGQACLIPDVLPTQIYPLPKQQNLPKRPTSLPLNTKNSTKEPRLKFGSKHKSNLKQVETGVAKMNTINAAEPHVVTVTMNGVAGRNHSVNSHAATTQYANGTVLSGQTTNIVTHRAQEMLQNQFIGEDTRLNINSSPDEHEPLLRREQQAGHDEGVLDRLVDRRERPLEGGRTNSNNNNSNPCSEQDVLAQGVPSTAADPGPSKPRRAQRPNSLDLSATNVLDGSSIQIGESTQDGKSGSGEKIKKRVKTPYSLKRWRPSTWVISTESLDCEVNNNGSNRAVHSKSSTAVYLAEGGTATTMVSKDIGMNCL |
| 444 | sp|P10147|CCL3\_HUMAN | MQVSTAALAVLLCTMALCNQFSASLAADTPTACCFSYTSRQIPQNFIADYFETSSQCSKPGVIFLTKRSRQVCADPSEEWVQKYVSDLELSA |
| 445 | sp|Q8BSN3|CC151\_MOUSE | MTSPLCWAAATTTVTSPEQAPAPSSKAKGSKVHRSKSMGRAQAWPARHPKSATSFHAMKSSVHAQVLELQRKIQLLEGDRKAFYESSQWNMKKNQDTINQLQEETKALHVQLKDLLQGDSKVIQAIIQEWKSEKPFLKNRTCEQALEHLEHQLREKMNQLNALRHQVILRQKRLEDLRLQHSLRQLEMAEVQDSNMEAAKTMRNLENRLEKARMKAEEAEHITNVYLQLKSYLQEESLNLESRLDSMEAEVMNTKHEVQELKVVNQEAINARDIAKNQLQYLEESAIRDRKKREHYITDCKKRAEEKKLQTERMERKTHRDHVLLQSEDTIQDHQRHREEELRQRWSMYQMEVMFGKVKDATGVAESHAVVRRFLAQDETFTQLENLKKDNELALAKLKEEKQRLQRELENLKYSGDATLVSQRRLHEEMQKTFKKEEQRHNDVHERLEHTSRILQLVKDCLEHLANKLSHVKLDDTVLAGKKLDRDSEDYAYNLLVVVQEKLLKLQDQLESQDVPELLRHIADREFLATLEGKLPLYNTRILLPVASVKDKFFDEEESEDDDRDVVTRAAFKLRSQKLIEARSKKRNRLRRS |
| 446 | sp|P06881|CALCA\_HUMAN | MGFQKFSPFLALSILVLLQAGSLHAAPFRSALESSPADPATLSEDEARLLLAALVQDYVQMKASELEQEQEREGSRIIAQKRACDTATCVTHRLAGLLSRSGGVVKNNFVPTNVGSKAFGRRRRDLQA |
| 447 | sp|P70343|CASP4\_MOUSE | MAENKHPDKPLKVLEQLGKEVLTEYLEKLVQSNVLKLKEEDKQKFNNAERSDKRWVFVDAMKKKHSKVGEMLLQTFFSVDPGSHHGEANLEMEEPEESLNTLKLCSPEEFTRLCREKTQEIYPIKEANGRTRKALIICNTEFKHLSLRYGANFDIIGMKGLLEDLGYDVVVKEELTAEGMESEMKDFAALSEHQTSDSTFLVLMSHGTLHGICGTMHSEKTPDVLQYDTIYQIFNNCHCPGLRDKPKVIIVQACRGGNSGEMWIRESSKPQLCRGVDLPRNMEADAVKLSHVEKDFIAFYSTTPHHLSYRDKTGGSYFITRLISCFRKHACSCHLFDIFLKVQQSFEKASIHSQMPTIDRATLTRYFYLFPGN |
| 448 | sp|P41180|CASR\_HUMAN | MAFYSCCWVLLALTWHTSAYGPDQRAQKKGDIILGGLFPIHFGVAAKDQDLKSRPESVECIRYNFRGFRWLQAMIFAIEEINSSPALLPNLTLGYRIFDTCNTVSKALEATLSFVAQNKIDSLNLDEFCNCSEHIPSTIAVVGATGSGVSTAVANLLGLFYIPQVSYASSSRLLSNKNQFKSFLRTIPNDEHQATAMADIIEYFRWNWVGTIAADDDYGRPGIEKFREEAEERDICIDFSELISQYSDEEEIQHVVEVIQNSTAKVIVVFSSGPDLEPLIKEIVRRNITGKIWLASEAWASSSLIAMPQYFHVVGGTIGFALKAGQIPGFREFLKKVHPRKSVHNGFAKEFWEETFNCHLQEGAKGPLPVDTFLRGHEESGDRFSNSSTAFRPLCTGDENISSVETPYIDYTHLRISYNVYLAVYSIAHALQDIYTCLPGRGLFTNGSCADIKKVEAWQVLKHLRHLNFTNNMGEQVTFDECGDLVGNYSIINWHLSPEDGSIVFKEVGYYNVYAKKGERLFINEEKILWSGFSREVPFSNCSRDCLAGTRKGIIEGEPTCCFECVECPDGEYSDETDASACNKCPDDFWSNENHTSCIAKEIEFLSWTEPFGIALTLFAVLGIFLTAFVLGVFIKFRNTPIVKATNRELSYLLLFSLLCCFSSSLFFIGEPQDWTCRLRQPAFGISFVLCISCILVKTNRVLLVFEAKIPTSFHRKWWGLNLQFLLVFLCTFMQIVICVIWLYTAPPSSYRNQELEDEIIFITCHEGSLMALGFLIGYTCLLAAICFFFAFKSRKLPENFNEAKFITFSMLIFFIVWISFIPAYASTYGKFVSAVEVIAILAASFGLLACIFFNKIYIILFKPSRNTIEEVRCSTAAHAFKVAARATLRRSNVSRKRSSSLGGSTGSTPSSSISSKSNSEDPFPQPERQKQQQPLALTQQEQQQQPLTLPQQQRSQQQPRCKQKVIFGSGTVTFSLSFDEPQKNAMAHRNSTHQNSLEAQKSSDTLTRHEPLLPLQCGETDLDLTVQETGLQGPVGGDQRPEVEDPEELSPALVVSSSQSFVISGGGSTVTENVVNS |
| 449 | sp|Q2KJ93|CDC42\_BOVIN | MQTIKCVVVGDGAVGKTCLLISYTTNKFPSEYVPTVFDNYAVTVMIGGEPYTLGLFDTAGQEDYDRLRPLSYPQTDVFLVCFSVVSPSSFENVKEKWVPEITHHCPKTPFLLVGTQIDLRDDPSTIEKLAKNKQKPITPETAEKLARDLKAVKYVECSALTQKGLKNVFDEAILAALEPPEPKKSRRCVLL |
| 450 | sp|Q9CPY3|CDCA5\_MOUSE | MAERRTRSGGAAQRSGPRTSLTKPSKSSKRKSGSDLPNSFSEIWPRTTPAVPVRKAIVLKKIVAHAVEVPDVHTVRRSPRISFILEKENNPPLKVPTKEDLFKTCSVPGTPSSTPVLYTQNVEPDSGEAELDSRDLEMSQKVRRSYSRLQSLGCASTSTPGRRSFFGFEGPDDLPGVSPVVCSKLIETPKVPAKDLVPARTKDLVPDSTKDLVPARTLPGISPPVVKEKRKKKVPEILKSELDKWAVAMNAEFEAAEQFELLIE |
| 451 | sp|P14180|CHS2\_YEAST | MTRNPFMVEPSNGSPNRRGASNLSKFYANANSNSRWANPSEESLEDSYDQSNVFQGLPASPSRAALRYSPDRRHRTQFYRDSAHNSPVAPNRYAANLQESPKRAGEAVIHLSEGSNLYPRDNADLPVDPYHLSPQQQPSNNLFGSGRLYSQSSKYTMSTTSTTAPSLAEADDEKEKYLTSTTSYDDQSTIFSADTFNETKFELNHPTRQQYVRRANSESKRRMVSDLPPPSKKKALLKLDNPIPKGLLDTLPRRNSPEFTEMRYTACTVEPDDFLREGYTLRFAEMNRECQIAICITMYNEDKYSLARTIHSIMKNVAHLCKREKSHVWGPNGWKKVSVILISDGRAKVNQGSLDYLAALGVYQEDMAKASVNGDPVKAHIFELTTQVSINADLDYVSKDIVPVQLVFCLKEENKKKINSHRWLFNAFCPVLQPTVVTLVDVGTRLNNTAIYRLWKVFDMDSNVAGAAGQIKTMKGKWGLKLFNPLVASQNFEYKISNILDKPLESVFGYISVLPGALSAYRYRALKNHEDGTGPLRSYFLGETQEGRDHDVFTANMYLAEDRILCWELVAKRDAKWVLKYVKEATGETDVPEDVSEFISQRRRWLNGAMFAAIYAQLHFYQIWKTKHSVVRKFFLHVEFLYQFIQMLFSWFSIANFVLTFYYLAGSMNLVIKHGEALFIFFKYLIFCDLASLFIISMGNRPQGAKHLFITSMVILSICATYSLICGFVFAFKSLASGTESHKIFVDIVISLLSTYGLYFFSSLMYLDPWHMFTSSIQYFLTLPAFTCTLQIFAFCNTHDVSWGTKGSTQESKQLSKAIVVQGPDGKQIVETDWPQEVDKKFLEIKSRLKEPEFEESSGNEKQSKNDYYRDIRTRIVMIWMLSNLILIMSIIQVFTPQDTDNGYLIFILWSVAALAAFRVVGSMAFLFMKYLRIIVSYRNKVEGSGSWEVSKLDLPNVFHKKG |
| 452 | sp|Q9STS7|CHL\_ARATH | MILLSSSISLSRPVSSQSFSPPAATSTRRSHSSVTVKCCCSSRRLLKNPELKCSLENLFEIQALRKCFVSGFAAILLLSQAGQGIALDLSSGYQNICQLGSAAAVGENKLTLPSDGDSESMMMMMMRGMTAKNFDPVRYSGRWFEVASLKRGFAGQGQEDCHCTQGVYTFDMKESAIRVDTFCVHGSPDGYITGIRGKVQCVGAEDLEKSETDLEKQEMIKEKCFLRFPTIPFIPKLPYDVIATDYDNYALVSGAKDKGFVQVYSRTPNPGPEFIAKYKNYLAQFGYDPEKIKDTPQDCEVTDAELAAMMSMPGMEQTLTNQFPDLGLRKSVQFDPFTSVFETLKKLVPLYFK |
| 453 | sp|Q8WYQ3|CHC10\_HUMAN | MPRGSRSAASRPASRPAAPSAHPPAHPPPSAAAPAPAPSGQPGLMAQMATTAAGVAVGSAVGHVMGSALTGAFSGGSSEPSQPAVQQAPTPAAPQPLQMGPCAYEIRQFLDCSTTQSDLSLCEGFSEALKQCKYYHGLSSLP |
| 454 | sp|O81862|CHIC\_ARATH | MSSTKLISLIVSITFFLTLQCSMAQTVVKASYWFPASEFPVTDIDSSLFTHLFCAFADLNSQTNQVTVSSANQPKFSTFTQTVQRRNPSVKTLLSIGGGIADKTAYASMASNPTSRKSFIDSSIRVARSYGFHGLDLDWEYPSSATEMTNFGTLLREWRSAVVAEASSSGKPRLLLAAAVFYSNNYYSVLYPVSAVASSLDWVNLMAYDFYGPGWSRVTGPPAALFDPSNAGPSGDAGTRSWIQAGLPAKKAVLGFPYYGYAWRLTNANSHSYYAPTTGAAISPDGSIGYGQIRKFIVDNGATTVYNSTVVGDYCYAGTNWIGYDDNQSIVTKVRYAKQRGLLGYFSWHVGADDNSGLSRAASQAWDATTATTRTIQKV |
| 455 | sp|Q8IWY9|CDAN1\_HUMAN | MAAVLESLLREEVSVAAVVRWIARSTQGSEDNAGEAAALSSLRALRKEFVPFLLNFLREQSSRVLPQGPPTPAKTPGASAALPGRPGGPPRGSRGARSQLFPPTEAQSTAAEAPLARRGGRRRGPGPARERGGRGLEEGVSGESLPGAGGRRLRGSGSPSRPSLTLSDPPNLSNLEEFPPVGSVPPGPTGTKPSRRINPTPVSEERSLSKPKTCFTSPPISCVPSSQPSALDTSPWGLGLPPGCRSLQEEREMLRKERSKQLQQSPTPTCPTPELGSPLPSRTGSLTDEPADPARVSSRQRLELVALVYSSCIAENLVPNLFLELFFVFQLLTARRMVTAKDSDPELSPAVLDSLESPLFQSIHDCVFFAVQVLECHFQVLSNLDKGTLKLLAENERLLCFSPALQGRLRAAYEGSVAKVSLVMPPSTQAVSFQPETDNRANFSSDRAFHTFKKQRDVFYEVLREWEDHHEEPGWDFEKGLGSRIRAMMGQLSAACSHSHFVRLFQKQLLQMCQSPGGAGGTVLGEAPDVLSMLGADKLGRLWRLQERLMAPQSSGGPCPPPTFPGCQGFFRDFILSASSFQFNQHLMDSLSLKIQELNGLALPQHEPNDEDGESDVDWQGERKQFAVVLLSLRLLAKFLGFVAFLPYRGPEPPPTGELQDSILALRSQVPPVLDVRTLLQRGLQARRAVLTVPWLVEFLSFADHVVPLLEYYRDIFTLLLRLHRSLVLSQESEGKMCFLNKLLLLAVLGWLFQIPTVPEDLFFLEEGPSYAFEVDTVAPEHGLDNAPVVDQQLLYTCCPYIGELRKLLASWVSGSSGRSGGFMRKITPTTTTSLGAQPSQTSQGLQAQLAQAFFHNQPPSLRRTVEFVAERIGSNCVKHIKATLVADLVRQAESLLQEQLVTQGEEGGDPAQLLEILCSQLCPHGAQALALGREFCQRKSPGAVRALLPEETPAAVLSSAENIAVGLATEKACAWLSANITALIRREVKAAVSRTLRAQGPEPAARGERRGCSRACEHHAPLPSHLISEIKDVLSLAVGPRDPDEGVSPEHLEQLLGQLGQTLRCRQFLCPPAEQHLAKCSVELASLLVADQIPILGPPAQYRLERGQARRLLHMLLSLWKEDFQGPVPLQLLLSPRNVGLLADTRPREWDLLLFLLRELVEKGLMGRMEIEACLGSLHQAQWPGDFAEELATLSNLFLAEPHLPEPQLRACELVQPNRGTVLAQS |
| 456 | sp|Q15078|CD5R1\_HUMAN | MGTVLSLSPSYRKATLFEDGAATVGHYTAVQNSKNAKDKNLKRHSIISVLPWKRIVAVSAKKKNSKKVQPNSSYQNNITHLNNENLKKSLSCANLSTFAQPPPAQPPAPPASQLSGSQTGGSSSVKKAPHPAVTSAGTPKRVIVQASTSELLRCLGEFLCRRCYRLKHLSPTDPVLWLRSVDRSLLLQGWQDQGFITPANVVFLYMLCRDVISSEVGSDHELQAVLLTCLYLSYSYMGNEISYPLKPFLVESCKEAFWDRCLSVINLMSSKMLQINADPHYFTQVFSDLKNESGQEDKKRLLLGLDR |
| 457 | sp|Q07DW5|CFTR\_MUNRE | MQRSPLEKASVVSKLFFSWTRPILKKGYRQRLELSDIYHISSSDSADNLSEKLEREWDRELASKKNPKLINALRRCFFWRFMFYGIILYLGEVTKAVQPLLLGRIIASYDPDNKAERSIAIYLGIGLCLLFIVRTLLLHPAIFGLHHIGMQMRIAMFSLIYKKTLKLSSRVLDKISIGQLVSLLSNNLNKFDEGLALAHFVWIAPLQVTLLMGLLWELLQAFTFCGLAFLVVLAFLQAGLGKMMMKYRDQRAGKINERLVITSEIIENIQSVKAYCWEEAMEKIIENLRQTELKLTRKAAYVRYLNSSAFFFSGFFVVFLSVLPYALLKGIILRKIFTTISFCIVLRMAVTRQFPWAVQTWYDSLGAINKIQDFLQKQEYKTLEYNLTTTDVVMENVTAYWEEGFSKLFEKAKENNNNRKISNGDNNLFFSNLLLGAPVLKDISFKIERGQLMAVAGSTGAGKTSLLMMIMGELEPSEGKIKHSGRISFCSQYSWIMPGTIKDNIIFGVSYDEYRYRSVIKACQLEEDISKFAEKDNIVLGEGGITLSGGQRARISLARAVYKDADLYLLDSPFGYLDVLTEKEIFESCVCKLMANKTRILVTSKMEHLKKADKILILHEGSIYFYGTFSELQNQRPDFSSKLMGCDTFDQFTAERRNSIITETLRRFSLEGDTSVSWNETKKPSFKQTGEFGEKRKNSILNSINSKRKFSVAQKTSLQMNGIEETSDEPLERKLSLVPHSEPGEGILPRSNAVNSGPTFLGGRRQSVLNLMTCSSVNQGQSIHRKTATSTRKMSLAPQASLAEIDIYSRRLSQDTGLEISEEINEEDLRDCFFDDVENIPAVTTWNTYLRYITVHKSLMFVLIWCLVVFLAEVAASLVVLCLFPKILFQDKGNSTKSANNSYAVIITSTSSYYIFYIYVGVADTLLALGLFRGLPLVHTLITVSKTLHHKMLQSVLQAPMSTLNTLKTGGILNRFSKDIAVLDDLLPLTIFDFVQLLLIVIGAVVVVSVLQPYIFLATVPVIAAFILLRAYFLHTSQQLKQLESEGRSPIFTHLVTSLKGLWTLRAFGRQPYFETLFHKALNLHTANWFLYLSTLRWFQMRIEMIFVIFFIAVTFISILTTGEGEGRVGIILTLAMNIMGTLQWAVNSSIDVDSLMRSVSRVFKFIDMPTEDGKPNNSFRPSKDSQLSKVMVIENQHVKKDDIWPSGGQMTVKDLTAKYIDGGNAILENISFSISPGQRVGLLGRTGSGKSTLLLAFLRLLNTKGEIQIDGVSWDSITLQQWRKAFGVIPQKVFIFSGTFRKNLDPYGQWSDQEIWKVADEVGLRSVIEQFPGKLDFVLVDGGCVLSHGHKQLMCLARSVLSKAKILLLDEPSAHLDPITYQIIRRTLKQAFADCTVILSEHRIEAMLECQRFLVIEENKVRQYDSIQRMLSEKSLFRQAISPADRLKLLPQRNSSRQKSRSNIAALKEETEEEVQETKI |
| 458 | sp|Q7Z7K6|CENPV\_HUMAN | MRRSRSSAAAKLRGQKRSGASGASAAPAASAAAALAPSATRTRRSASQAGSKSQAVEKPPSEKPRLRRSSPRAQEEGPGEPPPPELALLPPPPPPPPTPATPTSSASNLDLGEQRERWETFQKRQKLTSEGAAKLLLDTFEYQGLVKHTGGCHCGAVRFEVWASADLHIFDCNCSICKKKQNRHFIVPASRFKLLKGAEHITTYTFNTHKAQHTFCKRCGVQSFYTPRSNPGGFGIAPHCLDEGTVRSMVTEEFNGSDWEKAMKEHKTIKNMSKE |
| 459 | sp|Q9Z265|CHK2\_MOUSE | MKSHHQSHSSTSSKAHDSASCSQSQGGFSQPQGTPSQLHELSQYQGSSSSSTGTVPSSSQSSHSSSGTLSSLETVSTQELCSIPEDQEPEEPGPAPWARLWALQDGFSNLDCVNDNYWFGRDKSCEYCFDGPLLRRTDKYRTYSKKHFRIFREMGPKNCYIVYIEDHSGNGTFVNTELIGKGKRCPLSNNSEIALSLCRNKVFVFFDLTVDDQSVYPKELRDEYIMSKTLGSGACGEVKMAFERKTCQKVAIKIISKRRFALGSSREADTAPSVETEIEILKKLNHPCIIKIKDVFDAEDYYIVLELMEGGELFDRVVGNKRLKEATCKLYFYQMLVAVQYLHENGIIHRDLKPENVLLSSQEEDCLIKITDFGQSKILGETSLMRTLCGTPTYLAPEVLVSNGTAGYSRAVDCWSLGVILFICLSGYPPFSEHKTQVSLKDQITSGKYNFIPEVWTDVSEEALDLVKKLLVVDPKARLTTEEALNHPWLQDEYMKKKFQDLLVQEKNSVTLPVAPAQTSSQKRPLELEVEGMPSTKRLSVCGAVL |
| 460 | sp|Q10059|CDC12\_SCHPO | MRNSSKGQDPNFSYDSILSTPTPSARRTIGPRAPKSKTTYHKPPSSIESVSTLIQPNKSQSVTSPYVKQFTFSSKEYNSHNKHALQNSQLPLPKTPEKSTVHRPKANKVEVTDLPSSSSVEHLHTSKHLKGPRLPKNIIKSSEDVQIAPVTPPVHSRSFDPLPKPPVPSVPVSKTKRRTKHKLAPVVEVPEITNEVSPKFTSTNDEQVYRLRSIRAGSPNSVCSFQFEIPSTRPPSLDQLIHLFNDFLRHPVFDFDENAIEMLQSCTPDEKWCFIRSNFAGFDDPSFQIPELAAVHRPVSWFVIQLWNKTISNLQLITLSSLLSTQSDRWISLFLELQGLRALHNLLTYFNSSAVVQPQQAEVPRCMLTLLKKKPTLVTSNSYIFQAITVTLISPNLLPRKVAADLLTWVLSLKEPLVVSILETGFKEINAEYEKEVPLFFGWIKSFKDIILEKELARTPPSSPARNSASSSPSNIAFLEYCTSTMEFINQLIVACEELEQGFDLDILDSLRESGIHEVIQLLRNFPDQQLEKQLNIYESEEERRTISQTTHEDVDSFMSNESSILSSFNEFASNEVGRLLESTIQNILLAKGTEKQKVKLIKVFNSLLQRILLNSKVSNESFEDSLQASLNMLTERFYSDDTARNALKEAKASRAMAEKMVIERDAMAAQVNLGAEDLIAKLNKEVEDQKDVILSQKRTNETLKTEIDALQKSHVTQIQRSEVELRELYLLINSDSFQGSTNSKERIIEYLLDKLDLRKKEIAAESTLWSNDGIDDKLRDLREQMSRQSSQPSTVSTILQIPDKKFHRPFPRHLHRYVGRSASESLTSEKDESIKSMKGIDDFANLEIPGKGIESNVVIKDISNQTHEINSVENKAETVSNNSKITNFDIPNDATSLPTIITHPTPPPPPPLPVKTSLNTFSHPDSVNIVANDTSVAGVMPAFPPPPPPPPPLVSAAGGKFVSPAVSNNISKDDLHKTTGLTRRPTRRLKQMHWEKLNSGLEFTFWTGPSDEANKILETLHTSGVLDELDESFAMKEAKTLVKKTCARTDYMSSELQKLFGIHFHKLSHKNPNEIIRMILHCDDSMNECVEFLSSDKVLNQPKLKADLEPYRIDWANGGDLVNSEKDASELSRWDYLYVRLIVDLGGYWNQRMNALKVKNIIETNYENLVRQTKLIGRAALELRDSKVFKGLLYLILYLGNYMNDYVRQAKGFAIGSLQRLPLIKNANNTKSLLHILDITIRKHFPQFDNFSPELSTVTEAAKLNIEAIEQECSELIRGCQNLQIDCDSGALSDPTVFHPDDKILSVILPWLMEGTKKMDFLKEHLRTMNTTLNNAMRYFGEQPNDPNSKNLFFKRVDSFIIDYSKARSDNLKSEEEEASQHRRLNLVNNHKEHVLERAMSENNKMDNEAMDGFLDKLRNVKLESHHKPRNRSAITMGKEHLIEAPNTSTKSSPAKNELFVPKRSSVKSDLAKVRPRYPKGSESTDGLSDALNITPTKKGEVSSKAKKGYNYEKRRSGRQVSDSYVLNKNSKNKSNKGRSASYTFSDPSSLEDSNRQKPFNGEKFRRFSSKSRRGSQNRDSKKTGKARKDKGINNNQTSPQNKPSKESLKSDTISNEKKVFPQKASKVNLLTPTISNGTRASKHANEKENTFPRGVENNLVAPMIPNNTELNEDTSAVSRNLENATNDLKETFPTTTTISTARAKPGNNDINTILRRNNSRGRRRMLQQMSPLKSNKFSGTNDLNFQQATKPDGSNKSSYMERLEKLKQNSERHLQSVGGKKVYSSEETPVNKILVSPSVSILDHNRILSQSTPIKSPQRAQEMLAGLLSGKLAPKENEK |
| 461 | sp|P32397|CGOX\_BACSU | MSDGKKHVVIIGGGITGLAAAFYMEKEIKEKNLPLELTLVEASPRVGGKIQTVKKDGYIIERGPDSFLERKKSAPQLVKDLGLEHLLVNNATGQSYVLVNRTLHPMPKGAVMGIPTKIAPFVSTGLFSLSGKARAAMDFILPASKTKDDQSLGEFFRRRVGDEVVENLIEPLLSGIYAGDIDKLSLMSTFPQFYQTEQKHRSLILGMKKTRPQGSGQQLTAKKQGQFQTLSTGLQTLVEEIEKQLKLTKVYKGTKVTKLSHSGSCYSLELDNGVTLDADSVIVTAPHKAAAGMLSELPAISHLKNMHSTSVANVALGFPEGSVQMEHEGTGFVISRNSDFAITACTWTNKKWPHAAPEGKTLLRAYVGKAGDESIVDLSDNDIINIVLEDLKKVMNINGEPEMTCVTRWHESMPQYHVGHKQRIKELREALASAYPGVYMTGASFEGVGIPDCIDQGKAAVSDALTYLFS |
| 462 | sp|Q07E42|CFTR\_DASNO | MQRSPLEKASVISKLFFSWTRPILRKGYRQRLELSDIYQIPSADSADNLSEKLEREWDRELASKKNPKLINALRRCFFWRFTFYGIILYLGEVTKAVQPLLLGRIIASYDPDNKVERSIAIYLAVGLCLLFVVRTLLLHPAIFGLHHIGMQMRIAMFSLIYKKTLKLSSRVLDKISIGQLVSLLSNNLNKFDEGLALAHFVWIAPLQVTLLMGLLWDLLQASAFSGLGVLIILACFQAGFGRMMMKYRDQRAGKINERLVITSEMIENIQSVKAYCWEEALEKMIENFRQSELRLTRKAAYVRYFNSSAFFFSGFFVVFLSVLPYALIKGIILRKIFTTISFCIVLRMAVTRQFPWAVQTWYDSLGAINKIQDFLQKQEYKSLEYNLTTTDVVMETVTAFWEERFGELFEKAKQNNNNRKISNVDNSLFFSNFSLLGTPVLKDINFKIERGQLLAVAGSTGAGKTSLLMMIMGELEPSEGKIKHSGRISFCSQFSWIMPGTIKENIIFGVCYDEYRYRSVIKACQLVEDISKFAEKDNTVLGEGGITLSGGQRARISLARAVYKDADLYLLDSPFGYLDVLTEKEIFESCVCKLMANKTRILVTSKMEHLKKADKILILHEGSSYFYGTFSELQNLRPDFSSKLMGYDSFDQFSAERRNSIITETLRRFSLEGDAAHSWNETKKQSFKQTGEFGEKRKNSILNPINSLRRISITQKTPLPMNGIDEDSGETLERRLSLVPDCEQGEGILPRSNLINTGPTLQRGRRQSVLNLMTHSSGNQGQNIHRRTTAFTRKMSLAPQANLVEMDIYSRRLSQDSGLEISEEINEEDLKECFLDDVESIPAVTTWNTYLRYITVHKRLIFVLIWCFVVFLIEVAASLVLLCLLSKVSPEDKGNTTKSANDSSAVIITSTSSFYFLYIYVGVADTFLALGLFRGLPLVHTLITVSKILHHKMLHSVLQAPMSTLNTLKAGGILNRFSKDIAILDDLLPLTIFDFIQLLLIVIGAVAVVSILKPYIFLATVPVIVAFVLLRAYFLHTSQQLKQLESEARSPIFTHLVTSLKGLWTLRAFGRQPYFEALFHKALNLHTANWFLYLSTLRWFQMRIEMIFVIFFIAVTFISILTTGEGEGTVGIILTLAMNIMSTLQWAVNSSIDVDSLMRSVSRVFKFVDIPTEENKPTKSIKLPKDGQLSKVMIIENQHVKKDDIWPSGGQMTVKDLTAKYIDGGNAILENISFSISPGQRVGLLGRTGSGKSTLLSAFLRLLNTKGEIQIDGVSWDSITLQEWRKAFGVIPQKVFIFSGTFRKNLDPYGQWSDQEIWKVADEVGLRSVIEQFPGKLDFVLVDGGYVLSHGHKQLMCLARSVLSKAKILLLDEPSAHLDPITYQIIRRTLKQAFADCTVILCEHRIEAMLECQRFLVIEENKVRQYDSIQRLLSEKSLFRQAISPSDRVKLFPHQNSGKHKSRSKITALKEETEEEVQDTRL |
| 463 | sp|Q7KU24|CHD1\_DROME | MSQALNESANSIGSDEQDDTREEANGTDHSGSGSGSGSSGSDSDSDSSSGNSSDGRSSPEPEDKSLSVAGFPPTAAAAQADSKTNGFTDDQEDSSSDGSSGSDSDSDAEGPSDQRNQSINNANTSSSLPKPEQNEEEDNETEAGQQQPASDASADESSDSSANVSPTSSSSSSEEEEEDYRPKRTRQARKPPTAAEKSKKAPAPKNKKKTWDSDESDESEDSDDEVSTAQKRKPAATTSRSKLAQQQQRRRVKPFSSEDSDDDDASKRCATRRKGAAVSYKEASEDEATDSEDLLEFEYDESQAATTAATAEEEEKCETIERILAQRAGKRGCTGNQTTIYAIEENGFDPHAGFDEKQTPDAETEAQFLIKWKGWSYIHNTWESEATLRDMKAKGMKKLDNFIKKEKEQAYWRRYAGPEDIDYFECQLELQHELLKSYNNVDRIIAKGSKPDDGTEEYLCKWQSLPYAESTWEDAALVLRKWQRCAEQFNDRESSKCTPSRHCRVIKYRPKFSRIKNQPEFLSSGLTLRDYQMDGLNWLLHSWCKENSVILADEMGLGKTIQTICFLYSLFKIHHLYGPFLCVVPLSTMTAWQREFDLWAPDMNVVTYLGDIKSRELIQQYEWQFESSKRLKFNCILTTYEIVLKDKQFLGTLQWAALLVDEAHRLKNDDSLLYKSLKEFDTNHRLLITGTPLQNSLKELWALLHFIMPDKFDTWENFEVQHGNAEDKGYTRLHQQLEPYILRRVKKDVEKSLPAKVEQILRVEMTSLQKQYYKWILTKNFDALRKGKRGSTSTFLNIVIELKKCCNHAALIRPSEFELMGLQQDEALQTLLKGSGKLVLLDKLLCRLKETGHRVLIFSQMVRMLDVLADYLQKRHFPFQRLDGSIKGEMRRQALDHFNAEGSQDFCFLLSTRAGGLGINLATADTVIIFDSDWNPQNDLQAQARAHRIGQKNQVNIYRLVTARSVEEQIVERAKQKMVLDHLVIQRMDTTGRTVLDKSGNGHSSNSNPFNKDDLSAILKFGAEELFKDEQEHDDDLVCDIDEILRRAETRNEDPEMPADDLLSAFKVASIAAFEEEPSDSVSKQDQNAAGEEDDSKDWDDIIPEGFRKAIDDQERAKEMEDLYLPPRRKTAANQNEGKRGAGKGGKGKQQADDSGGDSDYELGSDGSGDDGRPRKRGRPTMKEKITGFTDAELRRFIRSYKKFPAPLHRMEAIACDAELQEKPLAELKRLGEMLHDRCVQFLHEHKEEESKTAATDETPGAKQRRARATFSVKLGGVSFNAKKLLACEQELQPLNEIMPSMPEERQQWSFNIKTRAPVFDVDWGIEEDTKLLCGIYQYGIGSWEQMKLDPTLKLTDKILLNDTRKPQAKQLQTRAEYLLKIIKKNVELTKGGQRRQRRPRASRANDAKAASQSASSTIDAKPHDGEDAAGDARTVAESSNSQVDPSTASPHNAPATEQHGDPAKKAKKSKARSKKTSASDNNGNKPMHFTANNEPRALEVLGDLDPSIFNECKEKMRPVKKALKALDQPDVSLSDQDQLQHTRDCLLQIGKQIDVCLNPYAETEKKEWRSNLWYFVSKFTELDAKRLFKIYKHALKQKAGGDGEAKGKDKGSSGSPAKSKPNGVTTEEKEKERDRSGGKKKKKDKDKERSGQARYPETGIPTSGRYADPPLKRKRDENDADASSGLAGAPGGGIGDNLKSMSFKRLNMDRHEDRKKHHRGPDYYGGSGPPMGSGSYEGGSNSRRQGPTSPSTPRTGRGGYDPPPAPSGYTPEMERWQSRDRYSQDYKRDRYDGYGRSGGGQGSYHRERDRRPEKRRYPSGLPPHPYSSHYLPPNYYGLPNGAVPGLPPPSSVYRSDPRGYPVMPRDYPADYRRSDYERRTQT |
| 464 | sp|P41597|CCR2\_HUMAN | MLSTSRSRFIRNTNESGEEVTTFFDYDYGAPCHKFDVKQIGAQLLPPLYSLVFIFGFVGNMLVVLILINCKKLKCLTDIYLLNLAISDLLFLITLPLWAHSAANEWVFGNAMCKLFTGLYHIGYFGGIFFIILLTIDRYLAIVHAVFALKARTVTFGVVTSVITWLVAVFASVPGIIFTKCQKEDSVYVCGPYFPRGWNNFHTIMRNILGLVLPLLIMVICYSGILKTLLRCRNEKKRHRAVRVIFTIMIVYFLFWTPYNIVILLNTFQEFFGLSNCESTSQLDQATQVTETLGMTHCCINPIIYAFVGEKFRSLFHIALGCRIAPLQKPVCGGPGVRPGKNVKVTTQGLLDGRGKGKSIGRAPEASLQDKEGA |
| 465 | sp|Q9H2A9|CHST8\_HUMAN | MTLRPGTMRLACMFSSILLFGAAGLLLFISLQDPTELAPQQVPGIKFNIRPRQPHHDLPPGGSQDGDLKEPTERVTRDLSSGAPRGRNLPAPDQPQPPLQRGTRLRLRQRRRRLLIKKMPAAATIPANSSDAPFIRPGPGTLDGRWVSLHRSQQERKRVMQEACAKYRASSSRRAVTPRHVSRIFVEDRHRVLYCEVPKAGCSNWKRVLMVLAGLASSTADIQHNTVHYGSALKRLDTFDRQGILHRLSTYTKMLFVREPFERLVSAFRDKFEHPNSYYHPVFGKAILARYRANASREALRTGSGVRFPEFVQYLLDVHRPVGMDIHWDHVSRLCSPCLIDYDFVGKFESMEDDANFFLSLIRAPRNLTFPRFKDRHSQEARTTARIAHQYFAQLSALQRQRTYDFYYMDYLMFNYSKPFADLY |
| 466 | sp|Q64314|CD34\_MOUSE | MQVHRDTRAGLLLPWRWVALCLMSLLHLNNLTSATTETSTQGISPSVPTNESVEENITSSIPGSTSHYLIYQDSSKTTPAISETMVNFTVTSGIPSGSGTPHTFSQPQTSPTGILPTTSDSISTSEMTWKSSLPSINVSDYSPNNSSFEMTSPTEPYAYTSSSAPSAIKGEIKCSGIREVRLAQGICLELSEASSCEEFKKEKGEDLIQILCEKEEAEADAGASVCSLLLAQSEVRPECLLMVLANSTELPSKLQLMEKHQSDLRKLGIQSFNKQDIGSHQSYSRKTLIALVTSGVLLAILGTTGYFLMNRRSWSPTGERLGEDPYYTENGGGQGYSSGPGASPETQGKANVTRGAQENGTGQATSRNGHSARQHVVADTEL |
| 467 | sp|Q9NNX6|CD209\_HUMAN | MSDSKEPRLQQLGLLEEEQLRGLGFRQTRGYKSLAGCLGHGPLVLQLLSFTLLAGLLVQVSKVPSSISQEQSRQDAIYQNLTQLKAAVGELSEKSKLQEIYQELTQLKAAVGELPEKSKLQEIYQELTRLKAAVGELPEKSKLQEIYQELTWLKAAVGELPEKSKMQEIYQELTRLKAAVGELPEKSKQQEIYQELTRLKAAVGELPEKSKQQEIYQELTRLKAAVGELPEKSKQQEIYQELTQLKAAVERLCHPCPWEWTFFQGNCYFMSNSQRNWHDSITACKEVGAQLVVIKSAEEQNFLQLQSSRSNRFTWMGLSDLNQEGTWQWVDGSPLLPSFKQYWNRGEPNNVGEEDCAEFSGNGWNDDKCNLAKFWICKKSAASCSRDEEQFLSPAPATPNPPPA |
| 468 | sp|P49919|CDN1C\_MOUSE | MGMSDVYLRSRTAMERLASSDTFPVIARSSACRSLFGPVDHEELGRELRMRLAELNAEDQNRWDFNFQQDVPLRGPGRLQWMEVDSESVPAFYRETVQVGRCRLQLGPRPPPVAVAVIPRSGPPAGEAPDGLEEAPEQPPSAPASAVVAEPTPPATPAPASDLTSDPIPEVTLVATSDPTPDPIPDANPDVATRDGEEQVPEQVSEQGEESGAEPGDELGTEPVSEQGEEQGAEPVEEKDEEPEEEQGAEPVEEQGAEPVEEQNGEPVEEQDENQEQRGQELKDQPLSGIPGRPAPGTAAANANDFFAKRKRTAQENKASNDVPPGCPSPNVAPGVGAVEQTPRKRLR |
| 469 | sp|Q9UQ88|CD11A\_HUMAN | MGDEKDSWKVKTLDEILQEKKRRKEQEEKAEIKRLKNSDDRDSKRDSLEEGELRDHCMEITIRNSPYRREDSMEDRGEEDDSLAIKPPQQMSRKEKVHHRKDEKRKEKWKHARVKEREHERRKRHREEQDKARREWERQKRREMAREHSRRERDRLEQLERKRERERKMREQQKEQREQKERERRAEERRKEREARREVSAHHRTMREDYSDKVKASHWSRSPPRPPRERFELGDGRKPGEARPAPAQKPAQLKEEKMEERDLLSDLQDISDSERKTSSAESSSAESGSGSEEEEEEEEEEEEEGSTSEESEEEEEEEEEEEEETGSNSEEASEQSAEEVSEEEMSEDEERENENHLLVVPESRFDRDSGESEEAEEEVGEGTPQSSALTEGDYVPDSPALLPIELKQELPKYLPALQGCRSVEEFQCLNRIEEGTYGVVYRAKDKKTDEIVALKRLKMEKEKEGFPITSLREINTILKAQHPNIVTVREIVVGSNMDKIYIVMNYVEHDLKSLMETMKQPFLPGEVKTLMIQLLRGVKHLHDNWILHRDLKTSNLLLSHAGILKVGDFGLAREYGSPLKAYTPVVVTQWYRAPELLLGAKEYSTAVDMWSVGCIFGELLTQKPLFPGNSEIDQINKVFKELGTPSEKIWPGYSELPVVKKMTFSEHPYNNLRKRFGALLSDQGFDLMNKFLTYFPGRRISAEDGLKHEYFRETPLPIDPSMFPTWPAKSEQQRVKRGTSPRPPEGGLGYSQLGDDDLKETGFHLTTTNQGASAAGPGFSLKF |
| 470 | sp|P51682|CCR5\_MOUSE | MDFQGSVPTYSYDIDYGMSAPCQKINVKQIAAQLLPPLYSLVFIFGFVGNMMVFLILISCKKLKSVTDIYLLNLAISDLLFLLTLPFWAHYAANEWVFGNIMCKVFTGLYHIGYFGGIFFIILLTIDRYLAIVHAVFALKVRTVNFGVITSVVTWAVAVFASLPEIIFTRSQKEGFHYTCSPHFPHTQYHFWKSFQTLKMVILSLILPLLVMVICYSGILHTLFRCRNEKKRHRAVRLIFAIMIVYFLFWTPYNIVLLLTTFQEFFGLNNCSSSNRLDQAMQATETLGMTHCCLNPVIYAFVGEKFRSYLSVFFRKHMVKRFCKRCSIFQQDNPDRASSVYTRSTGEHEVSTGL |
| 471 | sp|Q6QLQ4|CLC7A\_MOUSE | MKYHSHIENLDEDGYTQLDFSTQDIHKRPRGSEKGSQAPSSPWRPIAVGLGILCFVVVVVAAVLGALGEYGHNSGRNPEEKDNFLSRNKENHKPTESSLDEKVAPSKASQTTGGFSQPCLPNWIMHGKSCYLFSFSGNSWYGSKRHCSQLGAHLLKIDNSKEFEFIESQTSSHRINAFWIGLSRNQSEGPWFWEDGSAFFPNSFQVRNTAPQESLLHNCVWIHGSEVYNQICNTSSYSICEKEL |
| 472 | sp|Q6EIG7|CLC6A\_HUMAN | MMQEQQPQSTEKRGWLSLRLWSVAGISIALLSACFIVSCVVTYHFTYGETGKRLSELHSYHSSLTCFSEGTKVPAWGCCPASWKSFGSSCYFISSEEKVWSKSEQNCVEMGAHLVVFNTEAEQNFIVQQLNESFSYFLGLSDPQGNNNWQWIDKTPYEKNVRFWHLGEPNHSAEQCASIVFWKPTGWGWNDVICETRRNSICEMNKIYL |
| 473 | sp|Q9BXN2|CLC7A\_HUMAN | MEYHPDLENLDEDGYTQLHFDSQSNTRIAVVSEKGSCAASPPWRLIAVILGILCLVILVIAVVLGTMAIWRSNSGSNTLENGYFLSRNKENHSQPTQSSLEDSVTPTKAVKTTGVLSSPCPPNWIIYEKSCYLFSMSLNSWDGSKRQCWQLGSNLLKIDSSNELGFIVKQVSSQPDNSFWIGLSRPQTEVPWLWEDGSTFSSNLFQIRTTATQENPSPNCVWIHVSVIYDQLCSVPSYSICEKKFSM |
| 474 | sp|P26441|CNTF\_HUMAN | MAFTEHSPLTPHRRDLCSRSIWLARKIRSDLTALTESYVKHQGLNKNINLDSADGMPVASTDQWSELTEAERLQENLQAYRTFHVLLARLLEDQQVHFTPTEGDFHQAIHTLLLQVAAFAYQIEELMILLEYKIPRNEADGMPINVGDGGLFEKKLWGLKVLQELSQWTVRSIHDLRFISSHQTGIPARGSHYIANNKKM |
| 475 | sp|Q9ZPV8|COAD\_ARATH | MAAPEDSKMSPANSFGAVVLGGTFDRLHDGHRMFLKAAAELARDRIVVGVCDGPMLTKKQFSDMIQPIEERMRNVETYVKSIKPELVVQAEPITDPYGPSIVDENLEAIVVSKETLPGGLSVNRKRAERGLSQLKIEVVEIVSDGSSGNKISSSTLRKMEAEKASKQKQPAEEKAS |
| 476 | sp|Q3ZBF8|CERS2\_BOVIN | MLQTLHDYFWWERLWLPVNLTWADLEDRDGRVYAKASDLYITLPLALLFLIIRYFFELYVATPLAALLNVKEKTRLRAPPNPTLEHFYMTSGKQPKQADVELLSRQSGLSGRQVERWFRRRRNQDRPSLLKKFREASWRFTFYLIAFIAGTAVIVDKPWFYDLRKVWEGYPIQSIIPSQYWYYMIELSFYWSLLFSIASDVKRKDFKEQIIHHVATIILISFSWFANYVRAGTLIMALHDSSDYLLESAKMFNYAGWKNTCNNIFIVFAIVFIITRLVILPFWILHCTLVYPLELYPAFFGYYFFNFMMGVLQLLHIFWAYLILRMAHKFITGKVVEDERSDREETESSEGEEAAAGGGAKNRPLANGHPILNNNHRKND |
| 477 | sp|Q12860|CNTN1\_HUMAN | MKMWLLVSHLVIISITTCLAEFTWYRRYGHGVSEEDKGFGPIFEEQPINTIYPEESLEGKVSLNCRARASPFPVYKWRMNNGDVDLTSDRYSMVGGNLVINNPDKQKDAGIYYCLASNNYGMVRSTEATLSFGYLDPFPPEERPEVRVKEGKGMVLLCDPPYHFPDDLSYRWLLNEFPVFITMDKRRFVSQTNGNLYIANVEASDKGNYSCFVSSPSITKSVFSKFIPLIPIPERTTKPYPADIVVQFKDVYALMGQNVTLECFALGNPVPDIRWRKVLEPMPSTAEISTSGAVLKIFNIQLEDEGIYECEAENIRGKDKHQARIYVQAFPEWVEHINDTEVDIGSDLYWPCVATGKPIPTIRWLKNGYAYHKGELRLYDVTFENAGMYQCIAENTYGAIYANAELKILALAPTFEMNPMKKKILAAKGGRVIIECKPKAAPKPKFSWSKGTEWLVNSSRILIWEDGSLEINNITRNDGGIYTCFAENNRGKANSTGTLVITDPTRIILAPINADITVGENATMQCAASFDPALDLTFVWSFNGYVIDFNKENIHYQRNFMLDSNGELLIRNAQLKHAGRYTCTAQTIVDNSSASADLVVRGPPGPPGGLRIEDIRATSVALTWSRGSDNHSPISKYTIQTKTILSDDWKDAKTDPPIIEGNMEAARAVDLIPWMEYEFRVVATNTLGRGEPSIPSNRIKTDGAAPNVAPSDVGGGGGRNRELTITWAPLSREYHYGNNFGYIVAFKPFDGEEWKKVTVTNPDTGRYVHKDETMSPSTAFQVKVKAFNNKGDGPYSLVAVINSAQDAPSEAPTEVGVKVLSSSEISVHWEHVLEKIVESYQIRYWAAHDKEEAANRVQVTSQEYSARLENLLPDTQYFIEVGACNSAGCGPPSDMIEAFTKKAPPSQPPRIISSVRSGSRYIITWDHVVALSNESTVTGYKVLYRPDGQHDGKLYSTHKHSIEVPIPRDGEYVVEVRAHSDGGDGVVSQVKISGAPTLSPSLLGLLLPAFGILVYLEF |
| 478 | sp|O48947|CESA2\_ARATH | MNTGGRLIAGSHNRNEFVLINADESARIRSVQELSGQTCQICGDEIELTVSSELFVACNECAFPVCRPCYEYERREGNQACPQCKTRYKRIKGSPRVDGDDEEEEDIDDLEYEFDHGMDPEHAAEAALSSRLNTGRGGLDSAPPGSQIPLLTYCDEDADMYSDRHALIVPPSTGYGNRVYPAPFTDSSAPPQARSMVPQKDIAEYGYGSVAWKDRMEVWKRRQGEKLQVIKHEGGNNGRGSNDDDELDDPDMPMMDEGRQPLSRKLPIRSSRINPYRMLILCRLAILGLFFHYRILHPVNDAYGLWLTSVICEIWFAVSWILDQFPKWYPIERETYLDRLSLRYEKEGKPSGLAPVDVFVSTVDPLKEPPLITANTVLSILAVDYPVDKVACYVSDDGAAMLTFEALSDTAEFARKWVPFCKKFNIEPRAPEWYFSQKMDYLKNKVHPAFVRERRAMKRDYEEFKVKINALVATAQKVPEEGWTMQDGTPWPGNNVRDHPGMIQVFLGHSGVRDTDGNELPRLVYVSREKRPGFDHHKKAGAMNSLIRVSAVLSNAPYLLNVDCDHYINNSKAIRESMCFMMDPQSGKKVCYVQFPQRFDGIDRHDRYSNRNVVFFDINMKGLDGIQGPIYVGTGCVFRRQALYGFDAPKKKKPPGKTCNCWPKWCCLCCGLRKKSKTKAKDKKTNTKETSKQIHALENVDEGVIVPVSNVEKRSEATQLKLEKKFGQSPVFVASAVLQNGGVPRNASPACLLREAIQVISCGYEDKTEWGKEIGWIYGSVTEDILTGFKMHCHGWRSVYCMPKRAAFKGSAPINLSDRLHQVLRWALGSVEIFLSRHCPIWYGYGGGLKWLERFSYINSVVYPWTSLPLIVYCSLPAVCLLTGKFIVPEISNYAGILFMLMFISIAVTGILEMQWGGVGIDDWWRNEQFWVIGGASSHLFALFQGLLKVLAGVNTNFTVTSKAADDGAFSELYIFKWTTLLIPPTTLLIINIIGVIVGVSDAISNGYDSWGPLFGRLFFALWVIVHLYPFLKGMLGKQDKMPTIIVVWSILLASILTLLWVRVNPFVAKGGPVLEICGLNCGN |
| 479 | sp|Q7SIB2|CO4A1\_BOVIN | MGPRLGVWLLLLLAALLLHEESSRAAAKGGCAGSGCGKCDCHGVKGQKGERGLPGLQGVIGFPGMQGPEGPQGPPGQKGDTGEPGLPGTKGTRGPSGVPGYPGNPGLPGIPGQDGPPGPPGIPGCNGTKGERGPVGPPGLPGFAGNPGPPGLPGMKGDPGEILGHIPGTLLKGERGYPGQPGAPGSPGLPGLQGPVGPPGFTGPPGPPGPPGPPGEKGQMGLSFQGPKGEKGDQGVSGPPGLPGQAQVITKGDTAMRGEKGQKGEPGFPGLPGFGEKGEPGKPGPRGKPGKDGEKGEKGSPGFPGDSGYPGQPGQDGLKGEKGEAGPPGLPGTVIGTGPLGEKGEPGYPGGPGAKGETGPKGFPGIPGQPGPPGFPTPGLIGAPGFPGDRGEKGEPGLPGVSLPGPSGRDGLPGPPGPPGPPGQPGHTNGIVECQPGPPGDQGPPGIPGQPGLTGEVGEKGQKGDSCLVCDTAELRGPPGPQGPPGEIGFPGQPGAKGDRGLPGRDGLEGLPGPQGAPGLMGQPGAKGEPGEIYFDIRLKGDKGDPGFPGQPGMPGRAGSPGRDGQPGLPGPRGSPGSVGLKGERGPPGGVGFPGSRGDIGPPGPPGFGPIGPIGDKGQIGFPGTPGAPGQPGPKGEAGKVVPLPGPPGAEGLPGSPGFQGPQGDRGFPGSPGRPGLPGEKGAIGQPGIGFPGPPGPKGVDGLPGDAGPPGNPGRQGFNGLPGNPGPPGQKGEPGVGLPGLKGLPGIPGIPGTPGEKGNVGGPGIPGEHGAIGPPGLQGLRGDPGPPGFQGPKGAPGVPGIGPPGAMGPPGGQGPPGSSGPPGVKGEKGFPGFPGLDMPGPKGDKGSQGLPGLTGQSGLPGLPGQQGTPGQPGIPGPKGEMGVMGTPGQPGSPGPAGVPGLPGAKGDHGFPGSSGPRGDPGFKGDKGDVGLPGKPGSMDKVDMGSMKGEKGDQGEKGQTGPTGDKGSRGDPGTPGVPGKDGQAGHPGQPGPKGDPGVSGIPGAPGLPGPKGSAGGMGLPGMPGPKGVAGIPGPQGIPGLPGDKGAKGEKGQAGLPGIGIPGRPGDKGDQGLAGFPGSPGEKGEKGSTGIPGMPGSPGPKGSPGSVGYPGSPGLPGEKGDKGLPGLDGIPGIKGEAGLPGKPGPTGPAGQKGEPGSDGIPGSVGEKGESGLPGRGFPGFPGSKGDKGSKGDVGFPGLSGSPGIPGSKGEQGFMGPPGPQGQPGLPGTPGHAVEGPKGDRGPQGQPGLPGRPGPMGPPGLPGLEGLKGERGNPGWPGTPGAPGPKGDPGFQGMPGIGGSPGITGAKGDVGPPGVPGFHGQKGAPGLQGVKGDQGDQGFPGTKGLPGPPGPPGPFSIIKGEPGLPGPEGPAGLKGLQGPPGPKGQQGVTGSVGLPGPPGEPGFDGAPGQKGETGPFGPPGPRGFPGPPGPDGLPGSMGPPGTPSVDHGFLVTRHSQTTDDPQCPPGTKILYHGYSLLYVQGNERAHGQDLGTAGSCLRKFSTMPFLFCNINNVCNFASRNDYSYWLSTPEPMPMSMAPITGENIRPFISRCAVCEAPAMVMAVHSQTIQIPQCPTGWSSLWIGYSFVMHTSAGAEGSGQALASPGSCLEEFRSAPFIECHGRGTCNYYANAYSFWLATIERSEMFKKPTPSTLKAGELRTHVSRCQVCMRRT |
| 480 | sp|O95628|CNOT4\_HUMAN | MSRSPDAKEDPVECPLCMEPLEIDDINFFPCTCGYQICRFCWHRIRTDENGLCPACRKPYPEDPAVYKPLSQEELQRIKNEKKQKQNERKQKISENRKHLASVRVVQKNLVFVVGLSQRLADPEVLKRPEYFGKFGKIHKVVINNSTSYAGSQGPSASAYVTYIRSEDALRAIQCVNNVVVDGRTLKASLGTTKYCSYFLKNMQCPKPDCMYLHELGDEAASFTKEEMQAGKHQEYEQKLLQELYKLNPNFLQLSTGSVDKNKNKVTPLQRYDTPIDKPSDSLSIGNGDNSQQISNSDTPSPPPGLSKSNPVIPISSSNHSARSPFEGAVTESQSLFSDNFRHPNPIPSGLPPFPSSPQTSSDWPTAPEPQSLFTSETIPVSSSTDWQAAFGFGSSKQPEDDLGFDPFDVTRKALADLIEKELSVQDQPSLSPTSLQNSSSHTTTAKGPGSGFLHPAAATNANSLNSTFSVLPQRFPQFQQHRAVYNSFSFPGQAARYPWMAFPRNSIMHLNHTANPTSNSNFLDLNLPPQHNTGLGGIPVAGEEEVKVSTMPLSTSSHSLQQGQQPTSLHTTVA |
| 481 | sp|F4JZY1|CIP1\_ARATH | MKKHKFRETLKSFFEPHFDHEKGEMLKGTKTEIDEKVNKILGMVESGDVNEDESNRQVVADLVKEFYSEYQSLYRQYDDLTGEIRKKVNGKGESSSSSSSDSDSDHSSKRKVKRNGNGKVEKDVELVTGALKQQIEAANLEIADLKGKLTTTVEEKEAVDSELELALMKLKESEEISSKLKLETEKLEDEKSIALSDNRELHQKLEVAGKTETDLNQKLEDIKKERDELQTERDNGIKRFQEAEKVAEDWKTTSDQLKDETSNLKQQLEASEQRVSELTSGMNSAEEENKSLSLKVSEISDVIQQGQTTIQELISELGEMKEKYKEKESEHSSLVELHKTHERESSSQVKELEAHIESSEKLVADFTQSLNNAEEEKKLLSQKIAELSNEIQEAQNTMQELMSESGQLKESHSVKERELFSLRDIHEIHQRDSSTRASELEAQLESSKQQVSDLSASLKAAEEENKAISSKNVETMNKLEQTQNTIQELMAELGKLKDSHREKESELSSLVEVHETHQRDSSIHVKELEEQVESSKKLVAELNQTLNNAEEEKKVLSQKIAELSNEIKEAQNTIQELVSESGQLKESHSVKDRDLFSLRDIHETHQRESSTRVSELEAQLESSEQRISDLTVDLKDAEEENKAISSKNLEIMDKLEQAQNTIKELMDELGELKDRHKEKESELSSLVKSADQQVADMKQSLDNAEEEKKMLSQRILDISNEIQEAQKTIQEHMSESEQLKESHGVKERELTGLRDIHETHQRESSTRLSELETQLKLLEQRVVDLSASLNAAEEEKKSLSSMILEITDELKQAQSKVQELVTELAESKDTLTQKENELSSFVEVHEAHKRDSSSQVKELEARVESAEEQVKELNQNLNSSEEEKKILSQQISEMSIKIKRAESTIQELSSESERLKGSHAEKDNELFSLRDIHETHQRELSTQLRGLEAQLESSEHRVLELSESLKAAEEESRTMSTKISETSDELERTQIMVQELTADSSKLKEQLAEKESKLFLLTEKDSKSQVQIKELEATVATLELELESVRARIIDLETEIASKTTVVEQLEAQNREMVARISELEKTMEERGTELSALTQKLEDNDKQSSSSIETLTAEIDGLRAELDSMSVQKEEVEKQMVCKSEEASVKIKRLDDEVNGLRQQVASLDSQRAELEIQLEKKSEEISEYLSQITNLKEEIINKVKVHESILEEINGLSEKIKGRELELETLGKQRSELDEELRTKKEENVQMHDKINVASSEIMALTELINNLKNELDSLQVQKSETEAELEREKQEKSELSNQITDVQKALVEQEAAYNTLEEEHKQINELFKETEATLNKVTVDYKEAQRLLEERGKEVTSRDSTIGVHEETMESLRNELEMKGDEIETLMEKISNIEVKLRLSNQKLRVTEQVLTEKEEAFRKEEAKHLEEQALLEKNLTMTHETYRGMIKEIADKVNITVDGFQSMSEKLTEKQGRYEKTVMEASKILWTATNWVIERNHEKEKMNKEIEKKDEEIKKLGGKVREDEKEKEMMKETLMGLGEEKREAIRQLCVWIDHHRSRCEYLEEVLSKTVVARGQRRVSQRT |
| 482 | sp|P20908|CO5A1\_HUMAN | MDVHTRWKARSALRPGAPLLPPLLLLLLWAPPPSRAAQPADLLKVLDFHNLPDGITKTTGFCATRRSSKGPDVAYRVTKDAQLSAPTKQLYPASAFPEDFSILTTVKAKKGSQAFLVSIYNEQGIQQIGLELGRSPVFLYEDHTGKPGPEDYPLFRGINLSDGKWHRIALSVHKKNVTLILDCKKKTTKFLDRSDHPMIDINGIIVFGTRILDEEVFEGDIQQLLFVSDHRAAYDYCEHYSPDCDTAVPDTPQSQDPNPDEYYTEGDGEGETYYYEYPYYEDPEDLGKEPTPSKKPVEAAKETTEVPEELTPTPTEAAPMPETSEGAGKEEDVGIGDYDYVPSEDYYTPSPYDDLTYGEGEENPDQPTDPGAGAEIPTSTADTSNSSNPAPPPGEGADDLEGEFTEETIRNLDENYYDPYYDPTSSPSEIGPGMPANQDTIYEGIGGPRGEKGQKGEPAIIEPGMLIEGPPGPEGPAGLPGPPGTMGPTGQVGDPGERGPPGRPGLPGADGLPGPPGTMLMLPFRFGGGGDAGSKGPMVSAQESQAQAILQQARLALRGPAGPMGLTGRPGPVGPPGSGGLKGEPGDVGPQGPRGVQGPPGPAGKPGRRGRAGSDGARGMPGQTGPKGDRGFDGLAGLPGEKGHRGDPGPSGPPGPPGDDGERGDDGEVGPRGLPGEPGPRGLLGPKGPPGPPGPPGVTGMDGQPGPKGNVGPQGEPGPPGQQGNPGAQGLPGPQGAIGPPGEKGPLGKPGLPGMPGADGPPGHPGKEGPPGEKGGQGPPGPQGPIGYPGPRGVKGADGIRGLKGTKGEKGEDGFPGFKGDMGIKGDRGEIGPPGPRGEDGPEGPKGRGGPNGDPGPLGPPGEKGKLGVPGLPGYPGRQGPKGSIGFPGFPGANGEKGGRGTPGKPGPRGQRGPTGPRGERGPRGITGKPGPKGNSGGDGPAGPPGERGPNGPQGPTGFPGPKGPPGPPGKDGLPGHPGQRGETGFQGKTGPPGPPGVVGPQGPTGETGPMGERGHPGPPGPPGEQGLPGLAGKEGTKGDPGPAGLPGKDGPPGLRGFPGDRGLPGPVGALGLKGNEGPPGPPGPAGSPGERGPAGAAGPIGIPGRPGPQGPPGPAGEKGAPGEKGPQGPAGRDGLQGPVGLPGPAGPVGPPGEDGDKGEIGEPGQKGSKGDKGEQGPPGPTGPQGPIGQPGPSGADGEPGPRGQQGLFGQKGDEGPRGFPGPPGPVGLQGLPGPPGEKGETGDVGQMGPPGPPGPRGPSGAPGADGPQGPPGGIGNPGAVGEKGEPGEAGEPGLPGEGGPPGPKGERGEKGESGPSGAAGPPGPKGPPGDDGPKGSPGPVGFPGDPGPPGEPGPAGQDGPPGDKGDDGEPGQTGSPGPTGEPGPSGPPGKRGPPGPAGPEGRQGEKGAKGEAGLEGPPGKTGPIGPQGAPGKPGPDGLRGIPGPVGEQGLPGSPGPDGPPGPMGPPGLPGLKGDSGPKGEKGHPGLIGLIGPPGEQGEKGDRGLPGPQGSSGPKGEQGITGPSGPIGPPGPPGLPGPPGPKGAKGSSGPTGPKGEAGHPGPPGPPGPPGEVIQPLPIQASRTRRNIDASQLLDDGNGENYVDYADGMEEIFGSLNSLKLEIEQMKRPLGTQQNPARTCKDLQLCHPDFPDGEYWVDPNQGCSRDSFKVYCNFTAGGSTCVFPDKKSEGARITSWPKENPGSWFSEFKRGKLLSYVDAEGNPVGVVQMTFLRLLSASAHQNVTYHCYQSVAWQDAATGSYDKALRFLGSNDEEMSYDNNPYIRALVDGCATKKGYQKTVLEIDTPKVEQVPIVDIMFNDFGEASQKFGFEVGPACFMG |
| 483 | sp|O95484|CLD9\_HUMAN | MASTGLELLGMTLAVLGWLGTLVSCALPLWKVTAFIGNSIVVAQVVWEGLWMSCVVQSTGQMQCKVYDSLLALPQDLQAARALCVIALLLALLGLLVAITGAQCTTCVEDEGAKARIVLTAGVILLLAGILVLIPVCWTAHAIIQDFYNPLVAEALKRELGASLYLGWAAAALLMLGGGLLCCTCPPPQVERPRGPRLGYSIPSRSGASGLDKRDYV |
| 484 | sp|Q96DZ9|CKLF5\_HUMAN | MLSARDRRDRHPEEGVVAELQGFAVDKAFLTSHKGILLETELALTLIIFICFTASISAYMAAALLEFFITLAFLFLYATQYYQRFDRINWPCLLQGHGQSGGPHPLDLLSHSAKVQPQPWPGLTPPGWHTPAAVPWVPAPAPGFWSWLLWFICFHSLGSSDFLRCVSAIIIFLVVSFAAVTSRDGAAIAAFVFGIILVSIFAYDAFKIYRTEMAPGASQGDQQ |
| 485 | sp|Q5VN06|CLF\_ORYSJ | MAGDSRNEPMFCEEGSSESGYVLCVIDSLKKKITSDRFVYIQKRVEENSIKLSPITLHSHNLSKNRQTSTSNSTDLVSNLLTKRKEDALCAVNSRESSPDESEGANCQDECSSTVIVGGNLSARNSVRPIRLPEVATLPPYTTWIFLDRNQRMQEDQSVLGRRRIYYDTNCGEALICSDSEDEAVEDEEEKKEFKDSEDCIIRMTIQECGMSDAVLETLARDIERAPDDIKARYEILQGEKPEGSSKKVSELNVKMEDVYGDKDLDAALDSFDNLFCRRCLVFDCKLHGCSQDLVFPTEKQAPLCSSDEGTPCGIHCYKLVSKPDAIMEIDSHLLVDVEEPTSDNLKDQIGSNKKKLGSSGQKTKSQQSESSSTARVSSESSESEVQLLSNKSPQHSPGLSKNKLGAKGGIKKSTNRRIAERILMSVKKGQQEMSPDSNSIVNGCHWPRDMKLRSDTRSGIKDSVVSSQCNSPSTRSFRKKGTLQMENNSSFVDAQSDSMEDTNNEHSATDGCDSSRKEECVDESICRQEAHGRSWKVIEQGLLLKGLEIFGKNSCLIARNLLGGMKTCTDVFQYMNYIENSSASGALSGVDSLVKGYMKGNELRTRSRFVRRRGRVRRLKYTWKTAGYHFIRKRITERKDQPCRQYTPCGCQSACGKQCPCLTNGTCCEKYCGCPKMCKNRFRGCHCAKSQCRSRQCPCFAADRECDPDVCRNCWVGCGDGTLGVPNQRGDNYECRNMKLLLKQQQRVLLGRSDVSGWGAFLKNSVGKHEYLGEYTGELISHKEADKRGKIYDRENSSFLFNLNNEYVLDAYRMGDKLKFANHSPDPNCYAKVIMVAGDHRVGIFAKERISAGEELFYDYRYEPDRAPAWARKPEGPGAKDDAQPSTGRAKKLAH |
| 486 | sp|O22267|CKI1\_ARATH | MMVKVTKLVASRPIVVFCVLAFLVVVFECIWISNWRTTTENLVKEVASFTEDLRTSLVSEIENIGKFTYAKTNLSTIGLARVIDSYITNNDTGFTEIQTQIAPLLFVAYSTILQVSQVSYISRDGLMFSYIAESNTSVAVFANSSSNSSRGDYTWYTQTVDQLTGRLNGNSTKSQSLDVTHTDWFQAAQSNNYTTAFVGTSLGGEDNETLIQSVVSLYSKKGLVSLGFPVKTLTEVLNSLNLHGEELYMWTKDGTVLVREGSLNDSFFISNGSICFGRESNSLWSQCIPENCSSSGYEVEIKRLRYQAFCSVIEVSGVPLRYTLMFPNKGGATRIKHQAEKAKYQLIVVMIFLGFGWPVWFVWFMMQATRREMHMRATLINQMEATQQAERKSMNKSQAFANASHDIRGALAGMKGLIDICRDGVKPGSDVDTTLNQVNVCAKDLVALLNSVLDMSKIESGKMQLVEEDFNLSKLLEDVIDFYHPVAMKKGVDVVLDPHDGSVFKFSNVRGDSGRLKQILNNLVSNAVKFTVDGHIAVRAWAQRPGSNSSVVLASYPKGVSKFVKSMFCKNKEESSTYETEISNSIRNNANTMEFVFEVDDTGKGIPMEMRKSVFENYVQVRETAQGHQGTGLGLGIVQSLVRLMGGEIRITDKAMGEKGTCFQFNVLLTTLESPPVSDMKVRQEIEAGGDYVSTPNLGLTINTSLGGSMNIRNLSPRFNNCLSSSPKQEGSRVVLLLKNEERRRVTEKYIKNLGIKVTVVEKWEHLSYALERLFGFSPQSSMGRAECSLSCPSSRELPFIGMDGIDSRSQLPKRRSISFSAVVLLVIDAKTGPFFELCDIVKQFRRGLPHGISCKVVWLNESSTRVSERGDISCSRPLHGSRLMEVLKMLPEFGGTVLKEPPTELQRESLLRHSFVAERSPKHKVQEEGPSSMFNKKLGKRIMASTDSESETRVKSVRTGRKPIGNPEDEQETSKPSDDEFLRGKRVLVVDDNFISRKVATGKLKKMGVSEVEQCDSGKEALRLVTEGLTQREEQGSVDKLPFDYIFMDCQMPEMDGYEATREIRKVEKSYGVRTPIIAVSGHDPGSEEARETIQAGMDAFLDKSLNQLANVIREIESKRH |
| 487 | sp|Q8BXK9|CLIC5\_MOUSE | MTDSATTNGDDRDPEIELFVKAGIDGESIGNCPFSQRLFMILWLKGVVFNVTTVDLKRKPADLHNLAPGTHPPFLTFNGDVKTDVNKIEEFLEETLTPEKYPKLAAKHRESNTAGIDIFSKFSAYIKNTKQQNNAALERGLTKALRKLDDYLNSPLPEEIDTNTHGDEKGSQRKFLDGDELTLADCNLLPKLHVVKIVAKKYRNYDIPAEMTGLWRYLKNAYARDEFTNTCAADSEIELAYADVARRLSRS |
| 488 | sp|P43255|CSN8\_ARATH | MDLSPVKEALAAKSFDKIADICDTLMLQVASEGIEYHDDWPYAIHLLGYFYVDDCDSARFLWKRIPTAIKERKPEVVAAWGIGQKLWTHDYAGVYEAIRGYDWSQEAKDMVAAFSDLYTKRMFQLLLSAYSTITIHDLALFLGMTEDDATTYVVENGWTVDAASQMASVKKQAVKREQKVDSSKLQRLTEYVFHLEH |
| 489 | sp|Q8BWG9|CRCM1\_MOUSE | MHPEPAPPPSHSNPELPVSGGSSTSGSRRSRRRSGDGEPSGAPPLPPPPPAVSYPDWIGQSYSEVMSLNEHSMQALSWRKLYLSRAKLKASSRTSALLSGFAMVAMVEVQLDTDHDYPPGLLIVFSACTTVLVAVHLFALMISTCILPNIEAVSNVHNLNSVKESPHERMHRHIELAWAFSTVIGTLLFLAEVVLLCWVKFLPLKRQAGQPSPTKPPAESVIVANHSDSSGITPGEAAAIASTAIMVPCGLVFIVFAVHFYRSLVSHKTDRQFQELNELAEFARLQDQLDHRGDHSLTPGTHYA |
| 490 | sp|O70589|CSKP\_MOUSE | MADDDVLFEDVYELCEVIGKGPFSVVRRCINRETGQQFAVKIVDVAKFTSSPGLSTEDLKREASICHMLKHPHIVELLETYSSDGMLYMVFEFMDGADLCFEIVKRADAGFVYSEAVASHYMRQILEALRYCHDNNIIHRDVKPHCVLLASKENSAPVKLGGFGVAIQLGESGLVAGGRVGTPHFMAPEVVKREPYGKPVDVWGCGVILFILLSGCLPFYGTKERLFEGIIKGKYKMNPRQWSHISESAKDLVRRMLMLDPAERITVYEALNHPWLKERDRYAYKIHLPETVEQLRKFNARRKLKGAVLAAVSSHKFNSFYGDPPEELPDFSEDPTSSGLLAAERAVSQVLDSLEEIHALTDCSEKDLDFLHSVFQDQHLHTLLDLYDKINTKSSPQIRNPPSDAVQRAKEVLEEISCYPENNDAKELKRILTQPHFMALLQTHDVVAHEVYSDEALRVTPPPTSPYLNGDSPESANGDMDMENVTRVRLVQFQKNTDEPMGITLKMNELNHCIVARIMHGGMIHRQGTLHVGDEIREINGISVANQTVEQLQKMLREMRGSITFKIVPSYRTQSSSCERDSPSTSRQSPANGHSSTNNSVSDLPSTTQPKGRQIYVRAQFEYDPAKDDLIPCKEAGIRFRVGDIIQIISKDDHNWWQGKLENSKNGTAGLIPSPELQEWRVACIAMEKTKQEQQASCTWFGKKKKQYKDKYLAKHNAVFDQLDLVTYEEVVKLPAFKRKTLVLLGAHGVGRRHIKNTLITKHPDRFAYPIPHTTRPPKKDEENGKNYYFVSHDQMMQDISNNEYLEYGSHEDAMYGTKLETIRKIHEQGLIAILDVEPQALKVLRTAEFAPFVVFIAAPTITPGLNEDESLQRLQKESDVLQRTYAHYFDLTIINNEIDETIRHLEEAVELVCTAPQWVPVSWVY |
| 491 | sp|O64816|CSK2P\_ARATH | MALRPCTGFTISSLRNASAANNNLFSLLSFSSSSPAKRNLLLSSLQDNLRRFASSASLYRQHLRNQQQQHQQQQQSRVKEKSETLAQKIGKSIRRAGAPSKARVYADVNVVRPKDYWDYESLAVQWGVQDDYEVVRKVGRGKYSEVFEGIHATDNEKCVIKILKPVKKKKIKREIKILQNLCGGPNIVKLLDIVRDQQSKTPSLIFEHVNNKDFKVLYPTLSDYDVRYYIFELLKALDFCHSRGIMHRDVKPHNVMIDHEQRKLRLIDWGLAEFYHPGKEYNVRVASRYFKGPELLVDLQDYDYSLDLWSLGCMFAGMIFRKEPFFYGHDNYDQLVKIAKVLGTDELNAYLNKYRIELDPNLTSLVGRHSRKPWTKFINSENQHLAVPEAVDFVDKLLRYDHQERPTAKEAMAHPYFYPIRNAESSRTPRSQ |
| 492 | sp|P0ACJ8|CRP\_ECOLI | MVLGKPQTDPTLEWFLSHCHIHKYPSKSTLIHQGEKAETLYYIVKGSVAVLIKDEEGKEMILSYLNQGDFIGELGLFEEGQERSAWVRAKTACEVAEISYKKFRQLIQVNPDILMRLSAQMARRLQVTSEKVGNLAFLDVTGRIAQTLLNLAKQPDAMTHPDGMQIKITRQEIGQIVGCSRETVGRILKMLEDQNLISAHGKTIVVYGTR |
| 493 | sp|Q13098|CSN1\_HUMAN | MPLPVQVFNLQGAVEPMQIDVDPQEDPQNAPDVNYVVENPSLDLEQYAASYSGLMRIERLQFIADHCPTLRVEALKMALSFVQRTFNVDMYEEIHRKLSEATRSSLRELQNAPDAIPESGVEPPALDTAWVEATRKKALLKLEKLDTDLKNYKGNSIKESIRRGHDDLGDHYLDCGDLSNALKCYSRARDYCTSAKHVINMCLNVIKVSVYLQNWSHVLSYVSKAESTPEIAEQRGERDSQTQAILTKLKCAAGLAELAARKYKQAAKCLLLASFDHCDFPELLSPSNVAIYGGLCALATFDRQELQRNVISSSSFKLFLELEPQVRDIIFKFYESKYASCLKMLDEMKDNLLLDMYLAPHVRTLYTQIRNRALIQYFSPYVSADMHRMAAAFNTTVAALEDELTQLILEGLISARVDSHSKILYARDVDQRSTTFEKSLLMGKEFQRRAKAMMLRAAVLRNQIHVKSPPREGSQGELTPANSQSRMSTNM |
| 494 | sp|Q9UBL6|CPNE7\_HUMAN | MSAGSERGAAATPGGLPAPCASKVELRLSCRHLLDRDPLTKSDPSVALLQQAQGQWVQVGRTEVVRSSLHPVFSKVFTVDYYFEEVQRLRFEVYDTHGPSGFSCQEDDFLGGMECTLGQPAQKWLLQVVMRVSVDVLGPAGHCAKHFLCCTESSHLARTGPSFLLRYDDLCLPWATAGAVRWWTCRGGHTQGWQIVAQKKVTRPLLLKFGRNAGKSTITVIAEDISGNNGYVELSFRARKLDDKDLFSKSDPFLELYRVNDDQGLQLVYRTEVVKNNLNPVWEAFKVSLSSLCSCEETRPLKCLVWDYDSRGKHDFIGEFSTTFEEMQKAFEEGQAQWDCVNPKYKQKRRSYKNSGVVVLADLKFHRVYSFLDYIMGGCQIHFTVAIDFTASNGDPRNSCSLHYINPYQPNEYLKALVSVGEICQDYDSDKRFSALGFGARIPPKYEVSHDFAINFNPEDDECEGIQGVVEAYQNCLPRVQLYGPTNVAPIISKVARVAAAEESTGKASQYYILLILTDGVVTDMADTREAIVRASRLPMSIIIVGVGNADFTDMQVLDGDDGVLRSPRGEPALRDIVQFVPFRELKNASPAALAKCVLAEVPKQVVEYYSHRGLPPRSLGVPAGEASPGCTP |
| 495 | sp|Q6GUQ4|CP2E1\_MACMU | MSALGVSVALLVWVAVLLLVSIWRQVHSSWNLPPGPFPLPIIGNLFQLELKNIPKSFTRLAQRFGPVFTLYVGSRRVVVVHGYKAVREVLLDHKDEFSGRGDIPAFHAHRDRGIIFNNGPTWKDIRRFSLTTLRNYGMGKQGNESRIQREAHFLLEALRKTQGQPFDPTFLIGCAPCNVIADILFRKHFDYNDEKFLRLMYLFNENFQLLSTPWLQLYNNFPSLLHYLPGSHRKVMKNVAEIKEYVSERVKEHLQSLDPNCPRDLTDCLLVEMEKEKHSAERLYTMDGITVTVADLFFAGTETTSTTLRYGLLILMKYPEIEEKLHEEIDRVIGPSRIPAIKDRQEMPYMDAVVHEIQRFITLVPSNLPHEATRDTIFRGYIIPKGTVIVPTLDSVLYDNQEFPDPEKFKPEHFLDESGKFKYSDYFKPFSAGKRVCAGEGLARMELFLLLSAILQHFNLKPLVDPKDIDISPVNIGFGCIPPRFKLCVIPRS |
| 496 | sp|O16844|COS\_DROME | MEIPIQVAVRIFPHRELKDLLRSFGPTEPKKDAQAVDEGADSKDSEAQVPAAEKDNPSISETDPNGNAEQDSAADSKTIPDANGNDSGQKDYPDSAYCVQAIPISASALGLPSALPGGDPMDSIAAGLIQVGPHTVPVTHALPSSSSQEQVYHQTVFPLITLFLEGFDASVVTYGQRGQGKSYTLYGNVQDPTLTDSTEGVVQLCVRDIFSHISLHPERTYAINVGFVEICGGDVCDLLGMGNIHCTNVDAVFHWLQVGLSARQSLPAHTLFTLTLEQQWVSKEGLLQHRLSTASFSDLCGTERCGDQPPGRPLDAGLCMLEQVISTLTDPGLMYGVNGNIPYGQTTLTTLLKDSFGGRAQTLVILCVSPLEEHLPETLGNLQFAFKVQCVRNFVIMNTYSDDNTMIVQPAEPVPESNSSAGPLSQAGPGDNFGLQFAASQWSKLVTNAEGLFSKLIDSKLITEVEKEQIEEWLFLKQECEECLSSTEAMRQQKQLVPILEAEEPEDVNSEAANSESPNSDNENDTDNESHRPDLDDKIESLMEEFRDKTDALILEKHAEYLSKHPKAVMQSQDREIEAQPPEENGDDRKVSIGSRRRSVQPGASLSTAELAMLNRVASQQPPPPIDPESVVDPLESSSGEGIRQAALAAAAATAPIEQLQKKLRKLVAEIEGKQRQLREIEETIQVKQNIIAELVKNSDTRSHAKQRFHKKRAKLEAECDKAKKQLGKALVQGRDQSEIERWTTIIGHLERRLEDLSSMKHIAGESGQKVKKLQQSVGESRKQADDLQKKLRKECKLRCQMEAELAKLRESRETGKELVKAQGSPEQQGRQLKAVQARITHLNHILREKSDNLEEQPGPEQQETLRHEIRNLRGTRDLLLEERCHLDRKLKRDKVLTQKEERKLLECDEAIEAIDAAIEFKNEMITGHRSIDTSDRIQREKGEQMLMARLNRLSTEEMRTLLYKYFTKVIDLRDSSRKLELQLVQLERERDAWEWKERVLSNAVRQARLEGERNAVLLQRQHEMKLTLMLRHMAEETSASSASYGERALAPACVAPPVQASSDFDYDHFYKGGGNPSKALIKAPKPMPTGSALDKYKDKEQRSGRNIFAKFHVLTRYASAAAAGSSGSTAEESTALIESTTTATATTTSTTTTGAVGKVKDKALVSFRPEQLKRLMPAPTATKVTRQKNKIIIQDASRRN |
| 497 | sp|Q60952|CP250\_MOUSE | METGSPGLNMKPQSLQLVLEGQVLALQQQMAENQAASWRKLKNSQEAQKRQATLVRKLQAKVLQYRSWCQDLEKRLEATGGLIPQRWESVEEPNLEQLLIRLEEEQQRCESLVEVNTELRLHMEKADVVNKALQEDVEKLTVDWSRARDELVRKESQWRMEQEFFKGYLRGEHGRLLNLWREVVTFRRHFLKMKSATDRDLTELKAEHARLSGSLLTCCLRLTLRAQSRESSGSGRTEESEPARLLLLVAKTQALEKEAHEKSQELMQLKSHGDLEKAELQDRVTELSALLTQSQKQNEDYEKMVKALRETMEILETNHAELMEHEASLSRNAQEEKLSLQQVIKAITQALASVEEEDTVTQSSGHEDSLQSDCNGLSQFDPQDPDRALTLVQSVLTRRQQAVQDLRQQLSGCQEAMSFLQQQHDQWEEEGRALREKLQKLTGERDALAGQTVGLQGEVDSLSRERELLQKARGELQQQLEVLEQEAWRLRRMNMELQLQGDSAQGEKLEQQEELHLAVRERERLQETLVGLEAKQSESLSELLTLREALESSRLEGELLKQERVEVAAALARAEQSIVELSGSENSLKAEVADLRAAAVKLGALNEALALDKVELNQQLLQLEQENQSLCSRVEAAEQLRSALQVDLAEAERRREALWEKKTQLETQLQKAEEAGAELQAELRGTREEKEELKDKLSEAHHQQETATAHLEQLHQDAERQEETLARAVQEKEALVRERAALEVRLQAVERDRQDLTEHVLGLRSAKEQLESNLFEAQQQNSVIQVTKGQLEVQIQTIIQAKEVIQGEVKCLKLELDAERTRAEQEWDAVARQLAQAEQEGQASLERQKVAHEEEVNRLQEKWEKERSWLQQELDKTLETLERERAELETKLREQQTEMEAIRAQREEERSQADSALYQMQLETEKERVSLLETLLRTQKELADASQQLERLRQDMKIQKLKEQETTGMLQAQLQETQQELKEAAQQHRDDLAAFQKDKLDLQKQVEDLMSQLVAHDDSQRLVKEEIEEKVKVAQECSRIQKELEKENASLALSLVEKEKRLLILQEADSVRQQELSSLRQDIQEAQEGQRELGVQVELLRQEVKEKEADFVAREAQLLEELEASRVAEQQLRASLWAQEAKATQLQLQLRSTESQLEALVAEQQPENQAQAQLASLCSVLQQALGSACESRPELRGGGDSAPTLWGPDPDQNGASRLFKRWSLPTALSPEAVALALQKLHQDVWKARQARDDLRDQVQKLVQRLTDTEAQKSQVHSELQDLQRQLSQSQEEKSKWEGRQNSLESELRDLHETAASLQSRLRQAELQKMEAQNDRELLQASKEKLSAQVEHLQACVAEAQAQADAAAVLEEDLRTARSALKLKNEELESERERAQALQEQGELKVAQGKALQENLALLAQTLSNREREVETLQAEVQELEKQREMQKAALELLSLDLKKRSREVDLQQEQIQELEQCRSVLEHLPMAVQEREQKLSVQRDQIRELENDREAQRSVLEHQLLDLEQKAQVIESQRGQIQDLKKQLGTLECLALELEESHHKVESQQKMITELEGQREMQRVALTHLTLDLEERSQELQAQSSQLHELENHSTHLAKELQERDQEVTSQRQQIDELQKQQEQLAQALERKGQELVLQKERIQVLEDQRTLQTKILEEDLEQIKHSLRERSQELASQWQLVHERADDGKSPSKGQRGSLEHLKLILRDKEKEVECQQERIQELQGHMGQLEQQLQGLHRKVGETSLLLTHREQETATLQQHLQEAKEQGELREQVLQGQLEEAQRDLAQRDHELETLRQEKQQTQDQEESMKLKTSALQAALEQAHATLKERQGELEEHREQVRRLQEELEVEGRQVRALEEVLGDLRAESREHEKAVLALQQRCAEQAQEHEAEARTLQDSWLQAQATLTEQEQELAALRAENQYSRRQEEAAVSQAEALQEALSKAQAALQEKEQSLLEQAELSHTLEASTAALQATLDTCQASARQLEEALRIREGEIQAQALQHHEVTQHLQQELCQKKEELRQLLEKAGARRSQENGIQEKQSLEQERQEETRRLLESLKELQLTVAQREEEILMLREASSPRHRALPAEKPALQPLPAQQELERLQTALRQTEAREIEWREKAQDLALSLAQSKASISSLQEITMFLQASVLERESEQQRLQEELVLSRQALEEQQSGGPHSTSRADQGPKVGQGSQSGEVETEPSPGVEEKERLTQRLERLQQAVAELEVDRSKLQCHNAQLRTALEQVERERRKLKRDSVRASRAGSLEARETMTSSPTQQDGRGSQRGSSDSVLVVELQREVALLRAQLALERKQRQDYIARSVQTSRELAGLHHSLSHSLLTVAQAPEATVLEAETRKLDESLNQSLTSPGPCLLHPSLDTTQNTHR |
| 498 | sp|Q6VVW9|CP2R1\_MOUSE | MLELPGARACAGALAGALLLLLFVLVVRQLLRQRRPAGFPPGPPRLPFVGNICSLALSADLPHVYMRKQSRVYGEIFSLDLGGISTVVLNGYDVVKECLVHQSEIFADRPCLPLFMKMTKMGGLLNSRYGRGWIDHRRLAVNSFHYFGSGQKSFESKILEETWSLIDAIETYKGGPFDLKQLITNAVSNITNLILFGERFTYEDTDFQHMIELFSENVELAASAPVFLYNAFPWIGILPFGKHQRLFRNADVVYDFLSRLIEKAAVNRKPHLPHHFVDAYLDEMDQGQNDPLSTFSKENLIFSVGELIIAGTETTTNVLRWAILFMALYPNIQGQVHKEIDLIVGHNRRPSWEYKCKMPYTEAVLHEVLRFCNIVPLGIFHATSEDAVVRGYSIPKGTTVITNLYSVHFDEKYWKDPDMFYPERFLDSNGYFTKKEALIPFSLGRRHCLGEQLARMEMFLFFTSLLQQFHLHFPHELVPNLKPRLGMTLQPQPYLICAERR |
| 499 | sp|Q4WNT5|CP51A\_ASPFU | MVPMLWLTAYMAVAVLTAILLNVVYQLFFRLWNRTEPPMVFHWVPYLGSTISYGIDPYKFFFACREKYGDIFTFILLGQKTTVYLGVQGNEFILNGKLKDVNAEEVYSPLTTPVFGSDVVYDCPNSKLMEQKKFIKYGLTQSALESHVPLIEKEVLDYLRDSPNFQGSSGRVDISAAMAEITIFTAARALQGQEVRSKLTAEFADLYHDLDKGFTPINFMLPWAPLPHNKKRDAAHARMRSIYVDIITQRRLDGEKDSQKSDMIWNLMNCTYKNGQQVPDKEIAHMMITLLMAGQHSSSSISAWIMLRLASQPKVLEELYQEQLANLGPAGPDGSLPPLQYKDLDKLPFHQHVIRETLRIHSSIHSIMRKVKSPLPVPGTPYMIPPGRVLLASPGVTALSDEHFPNAGCWDPHRWENQATKEQENDKVVDYGYGAVSKGTSSPYLPFGAGRHRCIGEKFAYVNLGVILATIVRHLRLFNVDGKKGVPETDYSSLFSGPMKPSIIGWEKRSKNTSK |
| 500 | sp|Q9NZV1|CRIM1\_HUMAN | MYLVAGDRGLAGCGHLLVSLLGLLLLLARSGTRALVCLPCDESKCEEPRNCPGSIVQGVCGCCYTCASQRNESCGGTFGIYGTCDRGLRCVIRPPLNGDSLTEYEAGVCEDENWTDDQLLGFKPCNENLIAGCNIINGKCECNTIRTCSNPFEFPSQDMCLSALKRIEEEKPDCSKARCEVQFSPRCPEDSVLIEGYAPPGECCPLPSRCVCNPAGCLRKVCQPGNLNILVSKASGKPGECCDLYECKPVFGVDCRTVECPPVQQTACPPDSYETQVRLTADGCCTLPTRCECLSGLCGFPVCEVGSTPRIVSRGDGTPGKCCDVFECVNDTKPACVFNNVEYYDGDMFRMDNCRFCRCQGGVAICFTAQCGEINCERYYVPEGECCPVCEDPVYPFNNPAGCYANGLILAHGDRWREDDCTFCQCVNGERHCVATVCGQTCTNPVKVPGECCPVCEEPTIITVDPPACGELSNCTLTGKDCINGFKRDHNGCRTCQCINTEELCSERKQGCTLNCPFGFLTDAQNCEICECRPRPKKCRPIICDKYCPLGLLKNKHGCDICRCKKCPELSCSKICPLGFQQDSHGCLICKCREASASAGPPILSGTCLTVDGHHHKNEESWHDGCRECYCLNGREMCALITCPVPACGNPTIHPGQCCPSCADDFVVQKPELSTPSICHAPGGEYFVEGETWNIDSCTQCTCHSGRVLCETEVCPPLLCQNPSRTQDSCCPQCTDQPFRPSLSRNNSVPNYCKNDEGDIFLAAESWKPDVCTSCICIDSVISCFSESCPSVSCERPVLRKGQCCPYCIEDTIPKKVVCHFSGKAYADEERWDLDSCTHCYCLQGQTLCSTVSCPPLPCVEPINVEGSCCPMCPEMYVPEPTNIPIEKTNHRGEVDLEVPLWPTPSENDIVHLPRDMGHLQVDYRDNRLHPSEDSSLDSIASVVVPIIICLSIIIAFLFINQKKQWIPLLCWYRTPTKPSSLNNQLVSVDCKKGTRVQVDSSQRMLRIAEPDARFSGFYSMQKQNHLQADNFYQTV |
| 501 | sp|Q9UGN4|CLM8\_HUMAN | MWLPWALLLLWVPGCFALSKCRTVAGPVGGSLSVQCPYEKEHRTLNKYWCRPPQIFLCDKIVETKGSAGKRNGRVSIRDSPANLSFTVTLENLTEEDAGTYWCGVDTPWLRDFHDPVVEVEVSVFPASTSMTPASITAAKTSTITTAFPPVSSTTLFAVGATHSASIQEETEEVVNSQLPLLLSLLALLLLLLVGASLLAWRMFQKWIKAGDHSELSQNPKQAATQSELHYANLELLMWPLQEKPAPPREVEVEYSTVASPREELHYASVVFDSNTNRIAAQRPREEEPDSDYSVIRKT |
| 502 | sp|P07756|CPSM\_RAT | MTRILTACKVVKTLKSGFGLANVTSKRQWDFSRPGIRLLSVKAQTAHIVLEDGTKMKGYSFGHPSSVAGEVVFNTGLGGYSEALTDPAYKGQILTMANPIIGNGGAPDTTARDELGLNKYMESDGIKVAGLLVLNYSHDYNHWLATKSLGQWLQEEKVPAIYGVDTRMLTKIIRDKGTMLGKIEFEGQSVDFVDPNKQNLIAEVSTKDVKVFGKGNPTKVVAVDCGIKNNVIRLLVKRGAEVHLVPWNHDFTQMDYDGLLIAGGPGNPALAQPLIQNVKKILESDRKEPLFGISTGNIITGLAAGAKSYKMSMANRGQNQPVLNITNRQAFITAQNHGYALDNTLPAGWKPLFVNVNDQTNEGIMHESKPFFAVQFHPEVSPGPTDTEYLFDSFFSLIKKGKGTTITSVLPKPALVASRVEVSKVLILGSGGLSIGQAGEFDYSGSQAVKAMKEENVKTVLMNPNIASVQTNEVGLKQADAVYFLPITPQFVTEVIKAERPDGLILGMGGQTALNCGVELFKRGVLKEYGVKVLGTSVESIMATEDRQLFSDKLNEINEKIAPSFAVESMEDALKAADTIGYPVMIRSAYALGGLGSGICPNKETLMDLGTKAFAMTNQILVERSVTGWKEIEYEVVRDADDNCVTVCNMENVDAMGVHTGDSVVVAPAQTLSNAEFQMLRRTSINVVRHLGIVGECNIQFALHPTSMEYCIIEVNARLSRSSALASKATGYPLAFIAAKIALGIPLPEIKNVVSGKTSACFEPSLDYMVTKIPRWDLDRFHGTSSRIGSSMKSVGEVMAIGRTFEESFQKALRMCHPSVDGFTPRLPMNKEWPANLDLRKELSEPSSTRIYAIAKALENNMSLDEIVKLTSIDKWFLYKMRDILNMDKTLKGLNSESVTEETLRQAKEIGFSDKQISKCLGLTEAQTRELRLKKNIHPWVKQIDTLAAEYPSVTNYLYVTYNGQEHDIKFDEHGIMVLGCGPYHIGSSVEFDWCAVSSIRTLRQLGKKTVVVNCNPETVSTDFDECDKLYFEELSLERILDIYHQEACNGCIISVGGQIPNNLAVPLYKNGVKIMGTSPLQIDRAEDRSIFSAVLDELKVAQAPWKAVNTLNEALEFANSVGYPCLLRPSYVLSGSAMNVVFSEDEMKRFLEEATRVSQEHPVVLTKFIEGAREVEMDAVGKEGRVISHAISEHVEDAGVHSGDATLMLPTQTISQGAIEKVKDATRKIAKAFAISGPFNVQFLVKGNDVLVIECNLRASRSFPFVSKTLGVDFIDVATKVMIGESVDEKHLPTLEQPIIPSDYVAIKAPMFSWPRLRDADPILRCEMASTGEVACFGEGIHTAFLKAMLSTGFKIPQKGILIGIQQSFRPRFLGVAEQLHNEGFKLFATEATSDWLNANNVPATPVAWPSQEGQNPSLSSIRKLIRDGSIDLVINLPNNNTKFVHDNYVIRRTAVDSGIALLTNFQVTKLFAEAVQKARTVDSKSLFHYRQYSAGKAA |
| 503 | sp|P51538|CP3A9\_RAT | MDLIPNFSMETWLLLVISLVLLYLYGTHSHGIFKKLGIPGPKPLPFLGTILAYRKGFWEFDKYCHKKYGKLWGLYDGRQPVLAITDPDIIKTVLVKECYSTFTNRRNFGPVGILKKAISISEDEEWKRIRALLSPTFTSGKLKEMFPIINQYTDMLVRNMRQGSEEGKPTSMKDIFGAYSMDVITATSFGVNVDSLNNPQDPFVEKVKKLLKFDIFDPLFLSVTLFPFLTPLFEALNVSMFPRDVIDFFKTSVERMKENRMKEKEKQRMDFLQLMINSQNSKVKDSHKALSDVEIVAQSVIFIFAGYETTSSALSFVLYLLAIHPDIQKKLQDEIDAALPNKAHATYDTLLQMEYLDMVVNETLRLYPIAGRLERVCKTDVEINGVFIPKGTVVMIPTFALHKDPHYWPEPEEFRPERFSKKNQDNINPYMYLPFGNGPRNCIGMRFALMNMKVALFRVLQNFSFQPCKETQIPLKLSKQGLLQPEKPLLLKVVSRDETVNGA |
| 504 | sp|P23528|COF1\_HUMAN | MASGVAVSDGVIKVFNDMKVRKSSTPEEVKKRKKAVLFCLSEDKKNIILEEGKEILVGDVGQTVDDPYATFVKMLPDKDCRYALYDATYETKESKKEDLVFIFWAPESAPLKSKMIYASSKDAIKKKLTGIKHELQANCYEEVKDRCTLAEKLGGSAVISLEGKPL |
| 505 | sp|Q5QGZ9|CL12A\_HUMAN | MSEEVTYADLQFQNSSEMEKIPEIGKFGEKAPPAPSHVWRPAALFLTLLCLLLLIGLGVLASMFHVTLKIEMKKMNKLQNISEELQRNISLQLMSNMNISNKIRNLSTTLQTIATKLCRELYSKEQEHKCKPCPRRWIWHKDSCYFLSDDVQTWQESKMACAAQNASLLKINNKNALEFIKSQSRSYDYWLGLSPEEDSTRGMRVDNIINSSAWVIRNAPDLNNMYCGYINRLYVQYYHCTYKKRMICEKMANPVQLGSTYFREA |
| 506 | sp|P0ABJ9|CYDA\_ECOLI | MLDIVELSRLQFALTAMYHFLFVPLTLGMAFLLAIMETVYVLSGKQIYKDMTKFWGKLFGINFALGVATGLTMEFQFGTNWSYYSHYVGDIFGAPLAIEGLMAFFLESTFVGLFFFGWDRLGKVQHMCVTWLVALGSNLSALWILVANGWMQNPIASDFNFETMRMEMVSFSELVLNPVAQVKFVHTVASGYVTGAMFILGISAWYMLKGRDFAFAKRSFAIAASFGMAAVLSVIVLGDESGYEMGDVQKTKLAAIEAEWETQPAPAAFTLFGIPDQEEETNKFAIQIPYALGIIATRSVDTPVIGLKELMVQHEERIRNGMKAYSLLEQLRSGSTDQAVRDQFNSMKKDLGYGLLLKRYTPNVADATEAQIQQATKDSIPRVAPLYFAFRIMVACGFLLLAIIALSFWSVIRNRIGEKKWLLRAALYGIPLPWIAVEAGWFVAEYGRQPWAIGEVLPTAVANSSLTAGDLIFSMVLICGLYTLFLVAELFLMFKFARLGPSSLKTGRYHFEQSSTTTQPAR |
| 507 | sp|P24470|CP2CN\_RAT | MELLGFTTLALVVSVTCLSLLSVWTKLRTRGRLPPGPTPLPIIGNLLQLNLKDIPASLSKLAKEYGPVYTLYFGTSPTVVLHGYDVVKEALLQQGDEFLGRGPLPIIEDTHKGYGLIFSNGERWKVMRRFSLMTLRNFGMGKRSLEERVQEEARCLVEELQKTKAQPFDPTFILACAPCNVICSILFNDRFQYNDKTFLNLMDLLNKNFQQVNSVWCQMYNLWPTIIKYLPGKHIEFAKRIDDVKNFILEKVKEHQKSLDPANPRDYIDCFLSKIEEEKDNLKSEFHLENLAVCGSNLFTAGTETTSTTLRFGLLLLMKYPEVQAKVHEELDRVIGRHQPPSMKDKMKLPYTDAVLHEIQRYITLLPSSLPHAVVQDTKFRDYVIPKGTTVLPMLSSVMLDQKEFANPEKFDPGHFLDKNGCFKKTDYFVPFSLGKRACVGESLARMELFLFFTTLLQKFSLKTLVEPKDLDIKPITTGIINLPPPYKLCLVPR |
| 508 | sp|P97742|CPT1A\_MOUSE | MAEAHQAVAFQFTVTPDGIDLRLSHEALKQICLSGLHSWKKKFIRFKNGIITGVFPASPSSWLIVVVGVISSMHTKVDPSLGMIAKINRTLDTTGRMSSQTKNIVSGVLFGTGLWVAIIMTMRYSLKVLLSYHGWMFAEHGKMSRSTRIWMAMVKVFSGRKPMLYSFQTSLPRLPVPAVKDTVSRYLESVRPLMKEGDFQRMTALAQDFAVNLGPKLQWYLKLKSWWATNYVSDWWEEYIYLRGRGPIMVNSNYYAMEMLYITPTHIQAARAGNTIHAILLYRRTVDREELKPIRLLGSTIPLCSAQWERLFNTSRIPGEETDTIQHVKDSRHIVVYHRGRYFKVWLYHDGRLLRPRELEQQMQQILDDTSEPQPGEAKLAALTAADRVPWAKCRQTYFARGKNKQSLDAVEKAAFFVTLDESEQGYREEDPEASIDSYAKSLLHGRCFDRWFDKSITFVVFKNSKIGINAEHSWADAPIVGHLWEYVMATDVFQLGYSEDGHCKGDKNPNIPKPTRLQWDIPGECQEVIETSLSSASFLANDVDLHSFPFDTFGKGLIKKCRTSPDAFIQLALQLAHYKDMGKFCLTYEASMTRLFREGRTETVRSCTTESCNFVLAMMDPTTTAEQRFKLFKIACEKHQHLYRLAMTGAGIDRHLFCLYVVSKYLAVDSPFLKEVLSEPWRLSTSQTPQQQVELFDFEKYPDYVSCGGGFGPVADDGYGVSYIIVGENFIHFHISSKFSSPETDSHRFGKHLRQAMMDIITLFGLTANSKK |
| 509 | sp|Q9P000|COMD9\_HUMAN | MAALTAEHFAALQSLLKASSKDVVRQLCQESFSSSALGLKKLLDVTCSSLSVTQEEAEELLQALHRLTRLVAFRDLSSAEAILALFPENFHQNLKNLLTKIILEHVSTWRTEAQANQISLPRLVDLDWRVDIKTSSDSISRMAVPTCLLQMKIQEDPSLCGDKPSISAVTVELSKETLDTMLDGLGRIRDQLSAVASK |
| 510 | sp|O15194|CTDSL\_HUMAN | MDGPAIITQVTNPKEDEGRLPGAGEKASQCNVSLKKQRSRSILSSFFCCFRDYNVEAPPPSSPSVLPPLVEENGGLQKGDQRQVIPIPSPPAKYLLPEVTVLDYGKKCVVIDLDETLVHSSFKPISNADFIVPVEIDGTIHQVYVLKRPHVDEFLQRMGQLFECVLFTASLAKYADPVADLLDRWGVFRARLFRESCVFHRGNYVKDLSRLGRELSKVIIVDNSPASYIFHPENAVPVQSWFDDMTDTELLDLIPFFEGLSREDDVYSMLHRLCNR |
| 511 | sp|P00004|CYC\_HORSE | MGDVEKGKKIFVQKCAQCHTVEKGGKHKTGPNLHGLFGRKTGQAPGFTYTDANKNKGITWKEETLMEYLENPKKYIPGTKMIFAGIKKKTEREDLIAYLKKATNE |
| 512 | sp|P49573|CTR1\_YEAST | MEGMNMGSSMNMDAMSSASKTVASSMASMSMDAMSSASKTILSSMSSMSMEAMSSASKTLASTMSSMASMSMGSSSMSGMSMSMSSTPTSSASAQTTSDSSMSGMSGMSSSDNSSSSGMDMDMSMGMNYYLTPTYKNYPVLFHHLHANNSGKAFGIFLLFVVAAFVYKLLLFVSWCLEVHWFKKWDKQNKYSTLPSANSKDEGKHYDTENNFEIQGLPKLPNLLSDIFVPSLMDLFHDIIRAFLVFTSTMIIYMLMLATMSFVLTYVFAVITGLALSEVFFNRCKIAMLKRWDIQREIQKAKSCPGFGNCQCGRHPEPSPDPIAVADTTSGSDQSTRLEKNNESKVAISENNQKKTPTQEEGCNCATDSGKNQANIERDILENSKLQEQSGNMDQNLLPAEKFTHN |
| 513 | sp|Q8NEC5|CTSR1\_HUMAN | MDQNSVPEKAQNEADTNNADRFFRSHSSPPHHRPGHSRALHHYELHHHGVPHQRGESHHPPEFQDFHDQALSSHVHQSHHHSEARNHGRAHGPTGFGLAPSQGAVPSHRSYGEDYHDELQRDGRRHHDGSQYGGFHQQSDSHYHRGSHHGRPQYLGENLSHYSSGVPHHGEASHHGGSYLPHGPNPYSESFHHSEASHLSGLQHDESQHHQVPHRGWPHHHQVHHHGRSRHHEAHQHGKSPHHGETISPHSSVGSYQRGISDYHSEYHQGDHHPSEYHHGDHPHHTQHHYHQTHRHRDYHQHQDHHGAYHSSYLHGDYVQSTSQLSIPHTSRSLIHDAPGPAASRTGVFPYHVAHPRGSAHSMTRSSSTIRSRVTQMSKKVHTQDISTKHSEDWGKEEGQFQKRKTGRLQRTRKKGHSTNLFQWLWEKLTFLIQGFREMIRNLTQSLAFETFIFFVVCLNTVMLVAQTFAEVEIRGEWYFMALDSIFFCIYVVEALLKIIALGLSYFFDFWNNLDFFIMAMAVLDFLLMQTHSFAIYHQSLFRILKVFKSLRALRAIRVLRRLSFLTSVQEVTGTLGQSLPSIAAILILMFTCLFLFSAVLRALFRKSDPKRFQNIFTTIFTLFTLLTLDDWSLIYMDSRAQGAWYIIPILVIYIIIQYFIFLNLVITVLVDSFQTALFKGLEKAKQERAARIQEKLLEDSLTELRAAEPKEVASEGTMLKRLIEKKFGTMTEKQQELLFHYLQLVASVEQEQQKFRSQAAVIDEIVDTTFEAGEEDFRN |
| 514 | sp|Q9Z0D9|CX3C1\_MOUSE | MSTSFPELDLENFEYDDSAEACYLGDIVAFGTIFLSVFYALVFTFGLVGNLLVVLALTNSRKPKSITDIYLLNLALSDLLFVATLPFWTHYLISHEGLHNAMCKLTTAFFFIGFFGGIFFITVISIDRYLAIVLAANSMNNRTVQHGVTISLGVWAAAILVASPQFMFTKRKDNECLGDYPEVLQEMWPVLRNSEVNILGFALPLLIMSFCYFRIIQTLFSCKNRKKARAVRLILLVVFAFFLFWTPYNIMIFLETLKFYNFFPSCDMKRDLRLALSVTETVAFSHCCLNPFIYAFAGEKFRRYLGHLYRKCLAVLCGHPVHTGFSPESQRSRQDSILSSFTHYTSEGDGSLLL |
| 515 | sp|P56498|CXCR4\_FELCA | MDGFRIYPSDNYTEDDLGSGDYDSMKEPCFREENAHFNRIFLPTVYSIIFLTGIVGNGLVILVMGYQKKLRSMTDKYRLHLSVADLLFVLTLPFWAVDAVANWYFGKFLCKAVHVIYTVNLYSSVLILAFISLDRYLAIVHATNSQRPRKLLAEKVVYVGVWIPALLLTIPDFIFANVREADGRYICDRFYPSDSWLVVFQFQHIMVGLILPGIVILSCYCIIISKLSHSKGYQKRKALKTTVILILAFFACWLPYYIGISIDSFILLEIIKQGCEFESTVHKWISITEALAFFHCCLNPILYAFLGAKFKTSAQHALTSVSRGSSLKILSKGKRGGHSSVSTESESSSFHSS |
| 516 | sp|Q29101|CXA1\_PIG | MGDWSALGKLLDKVQAYSTAGGKVWLSVLFIFRILLLGTAVESAWGDEQSAFRCNTQQPGCENVCYDKSFPISHVRFWVLQIIFVSVPTLLYLAHVFYVMRKEEKLNKKEEELKVAQTDGVNVEMHLKQIEIKKFKYGIEEHGKVKMRGGLLRTYIISILFKSVFEVAFLLIQWYIYGFSLSAVYTCKRDPCPHQVDCFLSRPTEKTIFIIFMLVVSLVSLALNIIELFYAFFKGVKDRVKGKSDPYHATTGPLSPSKDCGSPKYAYFNGCSSPTAPLSPMSPPGYKLVTGDRNNSSCRNYNKQASEQNWANYSAEQNRMGQAGSTISNSHAQPFDFPDDNQNSKKLDAGHELQPLAIVDQRPSSRASSRASSRPRPDDLEI |
| 517 | sp|P09087|ABDB\_DROME | MQQHHLQQQQQQQQQQEQQHLQEQQQHLQQLHHHAHHHLPQPLHTTSHHHSAHPHLQQQQQQQQHAVVASSPSSVLQQQQQQSTPTTHSTPTHAVMYEDPPPVPLVAVQQQHLPAPQQQQQLQQQQQQQQQQLATTPVAGALSPAQTPTGPSAQQQQHLTSPHHQQLPQQQTPNSVASGASSNLQQQQQQQNAAVAPGQTQIVAPTTASVSPSSVSSQKEDINMSIQLAPLHIPAIRAGPGFETDTSAAVKRHTAHWAYNDEGFNQHYGSGYYDRKHMFAYPYPETQFPVGQYWGPNYRPDQTTSAAAAAAYMNEAERHVSAAARQSVEGTSTSSYEPPTYSSPGGLRGYPSENYSSSGASGGLSVGAVGPCTPNPGLHEWTGQVSVRKKRKPYSKFQTLELEKEFLFNAYVSKQKRWELARNLQLTERQVKIWFQNRRMKNKKNSQRQANQQNNNNNSSSNHNHAQATQQHHSGHHLNLSLNMGHHAAKMHQ |
| 518 | sp|Q8C0T9|ADCYA\_MOUSE | MSARRQELQDRAIVKIAAHLPDLIVYGDFSPERPSVKCFDGVLMFVDISGFTAMTEKFSTAMYMDRGAEQLVEILNYYISAIVEKVLIFGGDILKFAGDALLALWKVERKQLKNIITVVIKCSLEIHGLFEAKEAEEGLDIRVKIGLAAGHITMLVFGDETRNYFLVIGQAVDDVRLAQNMAQMNDVILSPNCWQLCDRSMIEIERIPDQRAVKVSFLKPPPTFNFDEFFTKCMGFMDYYPSGDHKNFLRLACMLESDPELELSLQKYVMEIILKQIDDKQLRGYLSELRPVTIVFVNLMFKEQDKVEVIGSAIQAACVHITSVLKVFRGQINKVFMFDKGCSFLCVFGFPGEKAPDEITHALESAVDIFDFCSQVHKIRTVSIGVASGIVFCGIVGHTVRHEYTVIGQKVNIAARMMMYYPGIVSCDSVTYDGSNLPAYFFKELPKKVMKGVADPGPVYQCLGLNEKVMFGMAYLICNRYEGYPLLGRVREIDYFMSTMKDFLMTNCSRVLMYEGLPGYGKSQVLMEIEYLASQHENHRAVAIALTKISFHQNFYTIQILMANVLGLDTCKHYKERQTNLQNRVKTLLDEKFHCLLNDIFHVQFPVSREMSRMSKIRKQKQLEALFMKILAQTVREERIIFIIDEAQFVDGTSWAFIEKLIRSMPIFIVMSLAPFSEVPCAAANAIMKNRNTTYITLGTMQPQEIRDKVCVDLSVSSIPRELDSYLVEGSCGIPYYCEELLKNLDHHRVLLFQQAETEQKTNVTWNNMFKHSVRPTDDMQLFTSISEGQKEVCYLVSGVRLNNLSPPASLKEISLVQLDSMSLSHQMLVRCAAIIGLTFTTELLFEILPCWNMKMMIKALATLVESNVFNCFRSSKDLQLALKQNVPTFEVHYRSLALKLKEGLTYGEEEELREMEGEVVECRILRFCRPIMQKTAYELWLKDQKKVLHLKCARFLEESAHRCNHCRNVDFIPYHHFIVDIRLNTLDMDTVKRMVTSQGFKIDEEEAIFSKSELPRKYKFPENLSITEIREKILHFFDNVILKMKSSPNDIIPLESCQCKELLQIVILPLAQHFVALEENNKALYYFLELASAYLILGDNYNAYMYLGEGERLLKSLTNEDSWSQTFEYATFYSLKAEVCFNMGQMVLAKKMLRKALKLLNRMFPCNLLTLTFQMHVEKNRLSHFMNQHTQEGSVPGKKLAQLYLQASCFSLLWRIYSLNFFFHYKYYGHLAAMMEMNTSLETQNDFQIIKAYLDFSLYHHLAGYQGVWFKYEILVMEQLLNLPLKGEAIEIMAYTADTLGHIKFLMGHLDLAIELGSRAHRMWSLLRNPNKYQMVLCRLSKPLFLKSRYKHLVQVLGWLWDLSVTEEDIFSKAFFYFVCLDIMLYSGFIYRTFEECLEFIHHNEDNRILKFQSGLLLGLYSCIAVWYARLQEWDNFNKFSDRAKHLVTRRTPTVLYYEGISRYMEGQVLHLQKQIEEQAENAQDSGVEILKALETLVAQNTTGPVFYPRLYHLMAYVCILMGDGHSCDFFLNTALELSETHGNLLEKCWLSMSKEWWYSASELTGDQWLQTVLSLPSWDKIVSGKGGQRKRSWSWFCPPNFSMVSWSQPQCA |
| 519 | sp|O35598|ADA10\_MOUSE | MVLPTVLILLLSWAAGLGGQYGNPLNKYIRHYEGLSYNVDSLHQKHQRAKRAVSHEDQFLLLDFHAHGRQFNLRMKRDTSLFSDEFKVETSNKVLDYDTSHIYTGHIYGEEGSFSHGSVIDGRFEGFIKTRGGTFYIEPAERYIKDRILPFHSVIYHEDDINYPHKYGPQGGCADHSVFERMRKYQMTGVEEGARAHPEKHAASSGPELLRKKRTTLAERNTCQLYIQTDHLFFKYYGTREAVIAQISSHVKAIDTIYQTTDFSGIRNISFMVKRIRINTTSDEKDPTNPFRFPNIGVEKFLELNSEQNHDDYCLAYVFTDRDFDDGVLGLAWVGAPSGSSGGICEKSKLYSDGKKKSLNTGIITVQNYGSHVPPKVSHITFAHEVGHNFGSPHDSGTECTPGESKNLGQKENGNYIMYARATSGDKLNNNKFSLCSIRNISQVLEKKRNNCFVESGQPICGNGMVEQGEECDCGYSDQCKDDCCFDANQPEGKKCKLKPGKQCSPSQGPCCTAQCAFKSKSEKCRDDSDCAKEGICNGFTALCPASDPKPNFTDCNRHTQVCINGQCAGSICEKYDLEECTCASSDGKDDKELCHVCCMKKMAPSTCASTGSLQWSKQFSGRTITLQPGSPCNDFRGYCDVFMRCRLVDADGPLARLKKAIFSPQLYENIAEWIVAHWWAVLLMGIALIMLMAGFIKICSVHTPSSNPKLPPPKPLPGTLKRRRPPQPIQQPPRQRPRESYQMGHMRR |
| 520 | sp|Q9P0K1|ADA22\_HUMAN | MQAAVAVSVPFLLLCVLGTCPPARCGQAGDASLMELEKRKENRFVERQSIVPLRLIYRSGGEDESRHDALDTRVRGDLGGPQLTHVDQASFQVDAFGTSFILDVVLNHDLLSSEYIERHIEHGGKTVEVKGGEHCYYQGHIRGNPDSFVALSTCHGLHGMFYDGNHTYLIEPEENDTTQEDFHFHSVYKSRLFEFSLDDLPSEFQQVNITPSKFILKPRPKRSKRQLRRYPRNVEEETKYIELMIVNDHLMFKKHRLSVVHTNTYAKSVVNMADLIYKDQLKTRIVLVAMETWATDNKFAISENPLITLREFMKYRRDFIKEKSDAVHLFSGSQFESSRSGAAYIGGICSLLKGGGVNEFGKTDLMAVTLAQSLAHNIGIISDKRKLASGECKCEDTWSGCIMGDTGYYLPKKFTQCNIEEYHDFLNSGGGACLFNKPSKLLDPPECGNGFIETGEECDCGTPAECVLEGAECCKKCTLTQDSQCSDGLCCKKCKFQPMGTVCREAVNDCDIRETCSGNSSQCAPNIHKMDGYSCDGVQGICFGGRCKTRDRQCKYIWGQKVTASDKYCYEKLNIEGTEKGNCGKDKDTWIQCNKRDVLCGYLLCTNIGNIPRLGELDGEITSTLVVQQGRTLNCSGGHVKLEEDVDLGYVEDGTPCGPQMMCLEHRCLPVASFNFSTCLSSKEGTICSGNGVCSNELKCVCNRHWIGSDCNTYFPHNDDAKTGITLSGNGVAGTNIIIGIIAGTILVLALILGITAWGYKNYREQRQLPQGDYVKKPGDGDSFYSDIPPGVSTNSASSSKKRSNGLSHSWSERIPDTKHISDICENGRPRSNSWQGNLGGNKKKIRGKRFRPRSNSTETLSPAKSPSSSTGSIASSRKYPYPMPPLPDEDKKVNRQSARLWETSI |
| 521 | sp|Q19705|ARL2\_CAEEL | MGFLKILRKQRAREREMRILILGLDNAGKTTLMKKFLDEPTDTIEPTLGFDIKTVHFKDFQLNLWDVGGQKSLRSYWKNYFESTDALIWVVDSSDRERLLQCSEELKKLLGEERLAGASLLVLANKSDLPGAIDVNSIAQVLDLHSIKSHHWKIFSCCALSGDRLVQAMTWLCDDVGSRLFILD |
| 522 | sp|Q9D8F1|ALKB4\_MOUSE | MAAAAEVSLLQECGCKGIRTCLICERQRHRDPPWQICLQKKCCFLYCPDTGWAAGAEGSDLEGWAFPFPGVTLIQDFVTPEEEAEMVRLMDCDPWKLSQSGRKKQDYGPKVNFRKQKLKMAGFQGLPGFSQKVVQRMGLYPGLEDFQPVEQCNLDYSPERGSAIDPHLDDAWLWGERLVSLNLLSATVVSMSPEAPGSLLLCSAPSVRPDAFEDSLVAPSRSVPCQEVEVAITVPRRSLLVLTGAARHQWTHAIHRRHIKARRVCATFRELSSEFLPGGKQQELGQELLQAALSFQGRPV |
| 523 | sp|E9Q7D5|ARHG5\_MOUSE | MEAEEPEYGVSTEVPDIEELKTIPEGIMRSSQIPALDPEAQEDRDPSYKWTDGHRPVMNQSKVLRDMGDHTPNSMAIFFKKESSDMETSQEILLAEACNTPDQQEAVIQSLKDRLSRTIAAPELLACAVQEEWLDIPSKLDNRVGAELQSELMSLTLAVSKEKEEEETSPDTSIPRGSWPPCKTHPGETEQTQGSGSELLRQGKQLQLEATQENQGQEGFLQSQEAQGLEEQEGQEVEIQEEGTLNEGICFGGLLGEQEEVEEGFNGNEEEQKQGQIQSYMLLGGQWENEGLSGELEGLNYSERGQENRERRVWVLRDSEEEGQDQESREVEERRVATQYTENQRLVEKSEIVKRKQRDHDQTGKVMPVRDQKEVVDSGDRVQGNGDSGGQTAVEGSRPGEDSKPSLPVASVDPEVLSPGTLFPGISSSVADIPQIQKEPVCEELSPQAPALEPTEWSHQPISPPASFAPEESLDNRTHNSQQEEFRLRKGIEVVSASTSVAPSGTRDSPPFSPPNVFSSTATLSPVSSSVILPEETPTASASADTPHHCGPCETPPLPAKSSRYPCATSDTANPHSPLSSYTGVTQHLRSNSFPGSHRTEQTPDSLGMSLSFSHLELPQRPPKPAIYGSLTPRRNRRSRDGIVFSDSSTALFALKQDSEEFTSNPERPSSPHGSPTWGSPQNSAFAIGSPANVSSPPTVSMDMTIREALLPIPPEKRHSYSHIVERDGLLHEVASTLKRHSHPPPLTLSSGLHRSSKGSFSLVPDSTVARQHRPLPSTPESPNHTQTSIPSRLRYNKPLPPTPDMPEFYHPSISSSYISRMYRPLPPVPIIDPSSEPPPLPPKSRGRSKSIQGGVIHSGGQAKPRPNNQDWTASTLSVGRTSWPPATGRSTESLPLTSRCNNEVSPGLAFSNMTNLLSPSSPTTPWIPDLQRPTTKDESGLTEESEPPVRGSFRRSAPQEEFNNTRRSALGSRKNSEKPLHHQLEKASSWPHRRDPARTSESSSEQVVLGQVPNKQKGWNRQGLRRPSILPESSSDLRNPAAGRLPGSSDSVVFREKKPKEGMGGFSRRCSKLISSQLLYQEYSDVVLNKEIQSQQRLDSLAEPHGLSSPRHRRKALVSSDSYLQRLSMASSGSLWQEIPVVRNSTVLLSMTHEDQKLQEAKFELIVSEASYLRSLNIAVDHFQHSAQLRGTLSNQDHQWLFSRLQDVRDVSTTFLSDLEENFENNIFSFQVCDVVLNHAADFHRVYLPYVTNQTYQERTFQSLMNSNSSFREVLEKLESDPICQRLSLKSFLILPFQRITRLKLLLQNILKRTQPGSSEEAEATKAHHALEKLIRDCNSNVQRMRRTEELIYLSQKIEFECKIFPLISQSRWLVKSGELTALEFSVSPGLRRKLTTRPVHLHLFNDCLLLSRPREGSRFLVFDHAPFSSIRGEKCEMKLHGPHKNLFRLFLLHNAQGTQVEFLFRTETQSEKLRWISALAMPREELDLLECYDSPQVQCLRAYKPRENDELALEKADVVMVTQQSSDGWLEGVRLSDGEQGWFPVQQVEFISNPEVRAQNLKEAHRVKTAKLQLVEQQV |
| 524 | sp|P17426|AP2A1\_MOUSE | MPAVSKGDGMRGLAVFISDIRNCKSKEAEIKRINKELANIRSKFKGDKALDGYSKKKYVCKLLFIFLLGHDIDFGHMEAVNLLSSNKYTEKQIGYLFISVLVNSNSELIRLINNAIKNDLASRNPTFMCLALHCIANVGSREMGEAFAADIPRILVAGDSMDSVKQSAALCLLRLYKASPDLVPMGEWTARVVHLLNDQHMGVVTAAVSLITCLCKKNPDDFKTCISLAVSRLSRIVSSASTDLQDYTYYFVPAPWLSVKLLRLLQCYPPPEDAAVKGRLVECLETVLNKAQEPPKSKKVQHSNAKNAILFETISLIIHYDSEPNLLVRACNQLGQFLQHRETNLRYLALESMCTLASSEFSHEAVKTHIDTVINALKTERDVSVRQRAADLLYAMCDRSNAKQIVSEMLRYLETADYAIREEIVLKVAILAEKYAVDYSWYVDTILNLIRIAGDYVSEEVWYRVLQIVTNRDDVQGYAAKTVFEALQAPACHENMVKVGGYILGEFGNLIAGDPRSSPPVQFSLLHSKFHLCSVATRALLLSTYIKFINLFPETKATIQGVLRAGSQLRNADVELQQRAVEYLTLSSVASTDVLATVLEEMPPFPERESSILAKLKRKKGPGAASALDDSRRDTSSNDINGGVEPTPSTVSTPSPSADLLGLRAAPPPAAPPAPVGGNLLVDVFSDGPTAQPSLGPTPEEAFLSELEPPAPESPMALLADPAPAADPGPEDIGPPIPEADELLNKFVCKNSGVLFENQLLQIGVKSEFRQNLGRMYLFYGNKTSVQFQNFLPTVVHPGDLQTQLAVQTKRVAAQVDGGAQVQQVLNIECLRDFLTPPLLSVRFRYGGTAQSLTLKLPVTINKFFQPTEMAAQDFFQRWKQLSLPLQEAQKIFKANHPMDAEVTKAKLLGFGSALLDNVDPNPENFVGAGIIQTKALQVGCLLRLEPNAQAQMYRLTLRTSKEPVSRHLCELLAQQF |
| 525 | sp|Q8NK92|AORSN\_ASPOR | MRPLSHLSFFNGLLLGLSALSAATSVVHERREATSSNWVKRARVNPSDKHVVRIGLTQSSLEEAHDLLMDVSNPSSPNYARFYSADEVAAKFAPSTETVNEVQNWLTEKGINASRVAQTQNHGWLVFHATSKEIENLFDTTYYEYHNRKTGKKAIACEQYHVPASVQKHIDYVHPGVNLNPSSGKPSSIRRRAAASKKTKLPARGPRPIQQHDVKGLNVTNCDQLITPECIRALYKIPSARAAPHPNNSLGIFEEGDYYAQEDLDLFFKTFAKDIPQGTHPIPAFIDGAEAPVPVTKAGGESDLDFELAYPIVHPQSITLYQTDDANWASNTTGFLNTFLDALDGSYCTYCAYGECGNDPSLDPVYPDDAGYDGQLMCGVFKPTNVISVSYGEQENDLPANYQQRQCMEFLKLGLQGVSVLFASGDNGVAGPPGDGNSVNGCLNNGTVFSPAFPNSCPYITNVGATKVYPGYTVSQPESAVYDPDGLYSYASGGGFSNIYPIPDYQAEAVATYFKDHNPPYPYYEGAENLGKNGGLYNRLGRGYPDVAANGDNIAVFNGGEFGSSGGTSASTPIFASIINRIIDERLAVGKGPVGFINPVLYKNPSVLNDITNGTNPGCGTDGFSTAPGWDPATGLGTPNYPKMLKLWLDLP |
| 526 | sp|P0AD70|AMPH\_ECOLI | MKRSLLFSAVLCAASLTSVHAAQPITEPEFASDIVDRYADHIFYGSGATGMALVVIDGNQRVFRSYGETRPGNNVRPQLDSVVRIASLTKLMTSEMLVKLLDQGTVKLNDPLSKYAPPGARVPTYNGTPITLVNLATHTSALPREQPGGAAHRPVFVWPTREQRWKYLSTAKLKAAPGSQAAYSNLAFDLLADALANASGKPYTQLFEEQITRPLGMKDTTYTPSPDQCRRLMVAERGASPCNNTLAAIGSGGVYSTPGDMMRWMQQYLSSDFYQRSNQADRMQTLIYQRAQFTKVIGMDVPGKADALGLGWVYMAPKEGRPGIIQKTGGGGGFITYMAMIPQKNIGAFVVVTRSPLTRFKNMSDGINDLVTELSGNKPLVIPAS |
| 527 | sp|P00690|AMYP\_PIG | MKLFLLLSAFGFCWAQYAPQTQSGRTSIVHLFEWRWVDIALECERYLGPKGFGGVQVSPPNENIVVTNPSRPWWERYQPVSYKLCTRSGNENEFRDMVTRCNNVGVRIYVDAVINHMCGSGAAAGTGTTCGSYCNPGNREFPAVPYSAWDFNDGKCKTASGGIESYNDPYQVRDCQLVGLLDLALEKDYVRSMIADYLNKLIDIGVAGFRIDASKHMWPGDIKAVLDKLHNLNTNWFPAGSRPFIFQEVIDLGGEAIQSSEYFGNGRVTEFKYGAKLGTVVRKWSGEKMSYLKNWGEGWGFMPSDRALVFVDNHDNQRGHGAGGASILTFWDARLYKVAVGFMLAHPYGFTRVMSSYRWARNFVNGQDVNDWIGPPNNNGVIKEVTINADTTCGNDWVCEHRWRQIRNMVWFRNVVDGQPFANWWANGSNQVAFGRGNRGFIVFNNDDWQLSSTLQTGLPGGTYCDVISGDKVGNSCTGIKVYVSSDGTAQFSISNSAEDPFIAIHAESKL |
| 528 | sp|Q1XA76|ASIC1\_CHICK | MMDLKVDEEEVDSGQPVSIQAFASSSTLHGISHIFSYERLSLKRVVWALCFMGSLALLALVCTNRIQYYFLYPHVTKLDEVAATRLTFPAVTFCNLNEFRFSRVTKNDLYHAGELLALLNNRYEIPDTQTADEKQLEILQDKANFRNFKPKPFNMLEFYDRAGHDIREMLLSCFFRGEQCSPEDFKVVFTRYGKCYTFNAGQDGKPRLITMKGGTGNGLEIMLDIQQDEYLPVWGETDETSFEAGIKVQIHSQDEPPLIDQLGFGVAPGFQTFVSCQEQRLIYLPPPWGDCKATTGDSEFYDTYSITACRIDCETRYLVENCNCRMVHMPGDAPYCTPEQYKECADPALDFLVEKDNEYCVCEMPCNVTRYGKELSMVKIPSKASAKYLAKKYNKSEQYIGENILVLDIFFEALNYETIEQKKAYEVAGLLGDIGGQMGLFIGASILTVLELFDYAYEVIKHRLCRRGKCRKNHKRNNTDKGVALSMDDVKRHNPCESLRGHPAGMTYAANILPHHPARGTFEDFTC |
| 529 | sp|Q9Y4P1|ATG4B\_HUMAN | MDAATLTYDTLRFAEFEDFPETSEPVWILGRKYSIFTEKDEILSDVASRLWFTYRKNFPAIGGTGPTSDTGWGCMLRCGQMIFAQALVCRHLGRDWRWTQRKRQPDSYFSVLNAFIDRKDSYYSIHQIAQMGVGEGKSIGQWYGPNTVAQVLKKLAVFDTWSSLAVHIAMDNTVVMEEIRRLCRTSVPCAGATAFPADSDRHCNGFPAGAEVTNRPSPWRPLVLLIPLRLGLTDINEAYVETLKHCFMMPQSLGVIGGKPNSAHYFIGYVGEELIYLDPHTTQPAVEPTDGCFIPDESFHCQHPPCRMSIAELDPSIAVGFFCKTEDDFNDWCQQVKKLSLLGGALPMFELVELQPSHLACPDVLNLSLDSSDVERLERFFDSEDEDFEILSL |
| 530 | sp|Q06278|AOXA\_HUMAN | MDRASELLFYVNGRKVIEKNVDPETMLLPYLRKKLRLTGTKYGCGGGGCGACTVMISRYNPITKRIRHHPANACLIPICSLYGAAVTTVEGIGSTHTRIHPVQERIAKCHGTQCGFCTPGMVMSIYTLLRNHPEPTLDQLTDALGGNLCRCTGYRPIIDACKTFCKTSGCCQSKENGVCCLDQGINGLPEFEEGSKTSPKLFAEEEFLPLDPTQELIFPPELMIMAEKQSQRTRVFGSERMMWFSPVTLKELLEFKFKYPQAPVIMGNTSVGPEVKFKGVFHPVIISPDRIEELSVVNHAYNGLTLGAGLSLAQVKDILADVVQKLPEEKTQMYHALLKHLGTLAGSQIRNMASLGGHIISRHPDSDLNPILAVGNCTLNLLSKEGKRQIPLNEQFLSKCPNADLKPQEILVSVNIPYSRKWEFVSAFRQAQRQENALAIVNSGMRVFFGEGDGIIRELCISYGGVGPATICAKNSCQKLIGRHWNEQMLDIACRLILNEVSLLGSAPGGKVEFKRTLIISFLFKFYLEVSQILKKMDPVHYPSLADKYESALEDLHSKHHCSTLKYQNIGPKQHPEDPIGHPIMHLSGVKHATGEAIYCDDMPLVDQELFLTFVTSSRAHAKIVSIDLSEALSMPGVVDIMTAEHLSDVNSFCFFTEAEKFLATDKVFCVGQLVCAVLADSEVQAKRAAKRVKIVYQDLEPLILTIEESIQHNSSFKPERKLEYGNVDEAFKVVDQILEGEIHMGGQEHFYMETQSMLVVPKGEDQEMDVYVSTQFPKYIQDIVASTLKLPANKVMCHVRRVGGAFGGKVLKTGIIAAVTAFAANKHGRAVRCVLERGEDMLITGGRHPYLGKYKAGFMNDGRILALDMEHYSNAGASLDESLFVIEMGLLKMDNAYKFPNLRCRGWACRTNLPSNTAFRGFGFPQAALITESCITEVAAKCGLSPEKVRIINMYKEIDQTPYKQEINAKNLIQCWRECMAMSSYSLRKVAVEKFNAENYWKKKGLAMVPLKFPVGLGSRAAGQAAALVHIYLDGSVLVTHGGIEMGQGVHTKMIQVVSRELRMPMSNVHLRGTSTETVPNANISGGSVVADLNGLAVKDACQTLLKRLEPIISKNPKGTWKDWAQTAFDESINLSAVGYFRGYESDMNWEKGEGQPFEYFVYGAACSEVEIDCLTGDHKNIRTDIVMDVGCSINPAIDIGQIEGAFIQGMGLYTIEELNYSPQGILHTRGPDQYKIPAICDMPTELHIALLPPSQNSNTLYSSKGLGESGVFLGCSVFFAIHDAVSAARQERGLHGPLTLNSPLTPEKIRMACEDKFTKMIPRDEPGSYVPWNVPI |
| 531 | sp|Q8CJ27|ASPM\_MOUSE | MATMQAASCPEERGRRARPDPEAGDPSPPVLLLSHFCGVPFLCFGDVRVGTSRTRSLVLHNPHEEPLQVELSLLRAAGQGFSVAPNRCELKPKEKLTISVTWTPLREGGVREIVTFLVNDFLKHQAILLGNAEEPKKKKRSLWNTSKKIPASSKHTKRTSKNQHFNESFTISQKDRIRSPLQPCENLAMSECSSPTENKVPTPSISPIRECQSETCLPLFLRESTAYSSLHESENTQNLKVQDASISQTFDFNEEVANETFINPISVCHQSEGDRKLTLAPNCSSPLNSTQTQIHFLSPDSFVNNRYTSDNDLKSMKNVLSDTFRKDPAESVCLESQTVHEVCQTILSPDSFLNDNYGLKKGLNFKSVNPVLSPTQFVKDSMGHVGQQTGKSNEASQDWRINEGLAYTPECQHAQTPSSRSEKQNPVEVKPHTYDFTKQKPKISEFQDAFCHQSKQPHKRRPILSATVTKRKPTNAREKLPEINKPDAKRCLEGLVGERGKEVGSLREKGFHSSLPVVEPGVSKALSYRDEVTPATVVVARKRKSHGTVGDANGKVAAEEWMDMCEVKRIHFSPLESTPSTVARTTKKEGHTSKRISSLERSGLKKKMDSSILKTPLSKTKKKRRSIVAVAQSHLTFIKPLKAAIPRHPMPFAAKNMFYDERWKEKQEQGFTWWLNYILTPDDFTVKTNVSKVNAASLVLGAESQHKISVPKAPTKEEVSLRAYTASCRLNRLRRTACSLFTSEKMVKAIKKVEIEIEVGRLLVRKDRHLWKDIGQRQKVLNWLLSYNPLWLRIGLETVFGELIPLADNSDVTGLAMFILNRLLWNPDIAAEYRHPTVPLLFRDGHEAALSKFTLKKLLLLICFLDHAKISRLIDHDPCLFCKDAEFKASKELLLAFSRDFLSGEGDLSRHLSFLGLPVSHVQTPLDEFDFAVTNLAVDLQCGVRLVRTVELLTQNWNLSDKLRIPAISRVQKMHNVDLVLQVLKSRGVPLTDEHGSAISSKDVVDRHREKTLGLLWKIALAFQVDISLNLDQLKEEIDFLKHTHSIKRAMSALTCPSQAITNKQRDKRISGNFERYGDSVQLLMDWVNAVCAFYNKKVENFTVSFSDGRILCYLIHHYHPCYVPFDAICQRTSQSVACAQTGSVVLNSSSESEGGCLDLSLEALDHESTPEMYKELLENEKKNFHLVRSAARDLGGIPAMIHHSDMSNTIPDEKVVITYLSFLCARLLDLRKEIRAARLIQTTWRKYKLKRDLKHHQERDKAARVIQSVVLNFLSRRRLQKNVSAALVIQKCWRRVSAQRKLRMLKNEKLAKLQNKSAVLIQAYWRRYSTRKRFLRLKHYSVILQSRIRMKIALTSYKRYLWATVTIQRHWRAYLSRKRDQQIFRKLKSSSLVIQFMFRRWKRRKLQLQTKAAVTLQRAFREWHLRKQIRERSAVVIQSWYRMHRELQKYIYIRSCVIVIQRRVRCFQAQKLYKRRKDAILTLQKHYRARQKGKLAHADYLQKRAATIRLQAAFRGMKARHSYRLQIGAACVLQSYWRMRQERVRFLNLKKMVIKLQAHIRKYQQLQKYKKIKKAAITIQTHFRASISARRVLASYQKTRSSVIVLQSACRGMQARKAFRHALASVIKIQSYYRAYICRKTFQNFKNATIKLQSIVKMKQSRKQYLQIRAAALFIQRWYRSQKLASQKRKEYIQVRESCIKLQSHFRGCLVRKQLRLQCKAAISLQSYFRMRTARQRYLKMCKAALVIQSFYCAYRAQISQRKNFLQVKRAAICLQAAYRGCKVRRQIKQQSTAAVTIQRVFRGHSQRMKYQTMLQSAVKIQRWYRAQKVAYDMRIQFLKTREAVVCLQSAYRGWQVRQQLRRQHEAAVKIQSTFRMAVAQQQYKLLRAAAAVIQQHVRARAAGKRQHLAYIQLRHAALVFQAAWKGKMLRRQIARQHQCAALIQSYYRMHIQRRKWSIMKTAALQIQLCYRAYKVGKEQRHLYLKTKAAVVTLQSAYRGMKVRKRVAECHKAAVTIQSKFRAYRTQKKYTTYRTSAIVIQRWYRNIKITTQQHQEYLNLRRAAVQVQAAYRGIRVRRRIQHMHMAATLIEAMFKMRQSRVRYLKMRTAALIIQVRYRAYYLGKIQHEKYLRTLKAIKTLQAGVRGARVRRTVRKMHFAATLIQSHFRGHRQQTYFHRLRKAATMVQQRYRAVKEGSAEFQRYSRLRRSVLLIQAAFRGLRTRRHLKAMHLAATLIQRRFRTFAMRRKFLSLRKTAIWIQRQYRARLYAKYSRQQLLLEKAVIKIQSSYRGWVVRKRVQKMHRAATVIQATFRMHGAYMRYQHLKRASVVIQVHTAAELQRQKHAAVILQAAVRGMKTRSHLKTMHSSATLIQSQFRAFIVRRRFIALRKAAIFVQRKFRATLYAKHKLHQFLQLRKAAITIQSSYRRLMVQKKLQEMHRAAALIQATFRMHRTYVAFHIWKCASIRIQQCYRTYRTIKLQKEKLIREEQHSAAVLIQSTYRMYRQRCFYQQRRWAAKVIQKTYRANKRRQDLLYVCKEETPLLQMHFQGLNTAKQGRQQHGAAMITQKHFRAFKARRLMEAERGFQAGCRKYKAKKYLSKVEAACRIQAWYRRWRAHKKYLTLLKAVNIIEGYLSAQLARRRFLKMRAAAIIIQRKWRATLSVRGARENLKRHRAACVIQAHFRGYQARQSFLQQRSAVLIIQRHVRAMVAAKQERIKYIKLKKSTVVVQALVRGWLVRKRVSEQKAKTRLFHFTAAAYCHMCALKIQRAYRLHVTLRNAKKHMDSVIFIQRWFRKRLQRKRFIEQYHKILSTRREAHACWLQQDRAASVIQKAVRRFLLCRRQEKITSCATRIQALWRGYSWRKKNDHTEIKAIRRSLRAVSTTVEEENKLYRRTERALHHLLTYKHLSAILDALKHLEVVTRLSPLCCENMAESGAVSTIFVVIRSCNRSVPCMEVVGYAVQVLLNVAKYDKTIAAVYEAENCVDTLLELLQVYREKPGDRVAEKSASIFTRTCCLLAVLLKTEQCAFDAQSRSKVTDRIYRLYKFTVPKHKVNTQGLFDKQKQNSCVGFPCIPERTMKTRLVSRLKPQWVLRRDNVEEITNSLQAIQLVMDTLGISY |
| 532 | sp|P13637|AT1A3\_HUMAN | MGDKKDDKDSPKKNKGKERRDLDDLKKEVAMTEHKMSVEEVCRKYNTDCVQGLTHSKAQEILARDGPNALTPPPTTPEWVKFCRQLFGGFSILLWIGAILCFLAYGIQAGTEDDPSGDNLYLGIVLAAVVIITGCFSYYQEAKSSKIMESFKNMVPQQALVIREGEKMQVNAEEVVVGDLVEIKGGDRVPADLRIISAHGCKVDNSSLTGESEPQTRSPDCTHDNPLETRNITFFSTNCVEGTARGVVVATGDRTVMGRIATLASGLEVGKTPIAIEIEHFIQLITGVAVFLGVSFFILSLILGYTWLEAVIFLIGIIVANVPEGLLATVTVCLTLTAKRMARKNCLVKNLEAVETLGSTSTICSDKTGTLTQNRMTVAHMWFDNQIHEADTTEDQSGTSFDKSSHTWVALSHIAGLCNRAVFKGGQDNIPVLKRDVAGDASESALLKCIELSSGSVKLMRERNKKVAEIPFNSTNKYQLSIHETEDPNDNRYLLVMKGAPERILDRCSTILLQGKEQPLDEEMKEAFQNAYLELGGLGERVLGFCHYYLPEEQFPKGFAFDCDDVNFTTDNLCFVGLMSMIDPPRAAVPDAVGKCRSAGIKVIMVTGDHPITAKAIAKGVGIISEGNETVEDIAARLNIPVSQVNPRDAKACVIHGTDLKDFTSEQIDEILQNHTEIVFARTSPQQKLIIVEGCQRQGAIVAVTGDGVNDSPALKKADIGVAMGIAGSDVSKQAADMILLDDNFASIVTGVEEGRLIFDNLKKSIAYTLTSNIPEITPFLLFIMANIPLPLGTITILCIDLGTDMVPAISLAYEAAESDIMKRQPRNPRTDKLVNERLISMAYGQIGMIQALGGFFSYFVILAENGFLPGNLVGIRLNWDDRTVNDLEDSYGQQWTYEQRKVVEFTCHTAFFVSIVVVQWADLIICKTRRNSVFQQGMKNKILIFGLFEETALAAFLSYCPGMDVALRMYPLKPSWWFCAFPYSFLIFVYDEIRKLILRRNPGGWVEKETYY |
| 533 | sp|P15289|ARSA\_HUMAN | MGAPRSLLLALAAGLAVARPPNIVLIFADDLGYGDLGCYGHPSSTTPNLDQLAAGGLRFTDFYVPVSLCTPSRAALLTGRLPVRMGMYPGVLVPSSRGGLPLEEVTVAEVLAARGYLTGMAGKWHLGVGPEGAFLPPHQGFHRFLGIPYSHDQGPCQNLTCFPPATPCDGGCDQGLVPIPLLANLSVEAQPPWLPGLEARYMAFAHDLMADAQRQDRPFFLYYASHHTHYPQFSGQSFAERSGRGPFGDSLMELDAAVGTLMTAIGDLGLLEETLVIFTADNGPETMRMSRGGCSGLLRCGKGTTYEGGVREPALAFWPGHIAPGVTHELASSLDLLPTLAALAGAPLPNVTLDGFDLSPLLLGTGKSPRQSLFFYPSYPDEVRGVFAVRTGKYKAHFFTQGSAHSDTTADPACHASSSLTAHEPPLLYDLSKDPGENYNLLGGVAGATPEVLQALKQLQLLKAQLDAAVTFGPSQVARGEDPALQICCHPGCTPRPACCHCPDPHA |
| 534 | sp|O35815|ATX3\_RAT | MESIFHEKQEGSLCAQHCLNNLLQGEYFSPVELSSIAHQLDEEERLRMAEGGVTSEDYRTFLQQPSGNMDDSGFFSIQVISNALKVWGLELILFNSPEYQRLRIDPINERSFICNYKEHWFTVRKLGKQWFNLNSLLTGPELISDTYLALFLAQLQQEGYSIFVVKGDLPDCEADQLLQMIKVQQMHRPKLIGEELAHLKEQSALKADLERVLEAADGPGMFDDDEDDLQRALAMSRQEIDMEDEEADLRRAIQLSMQGSSRGMCEDSPQTSSTDLSSEELRKRREAYFEKQQHQQQEADRPGYLSYPCERPTTSSGGLRSNQAGNAMSEEDVLRATVTVSLETAKDSLKAERKK |
| 535 | sp|P80428|ARP4\_YEAST | MSNAALQVYGGDEVSAVVIDPGSYTTNIGYSGSDFPQSILPSVYGKYTADEGNKKIFSEQSIGIPRKDYELKPIIENGLVIDWDTAQEQWQWALQNELYLNSNSGIPALLTEPVWNSTENRKKSLEVLLEGMQFEACYLAPTSTCVSFAAGRPNCLVVDIGHDTCSVSPIVDGMTLSKSTRRNFIAGKFINHLIKKALEPKEIIPLFAIKQRKPEFIKKTFDYEVDKSLYDYANNRGFFQECKETLCHICPTKTLEETKTELSSTAKRSIESPWNEEIVFDNETRYGFAEELFLPKEDDIPANWPRSNSGVVKTWRNDYVPLKRTKPSGVNKSDKKVTPTEEKEQEAVSKSTSPAANSADTPNETGKRPLEEEKPPKENNELIGLADLVYSSIMSSDVDLRATLAHNVVLTGGTSSIPGLSDRLMTELNKILPSLKFRILTTGHTIERQYQSWLGGSILTSLGTFHQLWVGKKEYEEVGVERLLNDRFR |
| 536 | sp|P83484|ATPBN\_ARATH | MASRRVLSSLLRSSSGRSAAKLVNRNPRLPSPSPARHAAPCSYLLGRVAEYATSSPASSAAPSSAPAKDEGKKTYDYGGKGAIGRVCQVIGAIVDVRFEDQEGLPPIMTSLEVQDHPTRLVLEVSHHLGQNVVRTIAMDGTEGLVRGRKVLNTGAPITVPVGRATLGRIMNVLGEPIDERGEIKTEHYLPIHRDAPALVDLATGQEILATGIKVVDLLAPYQRGGKIGLFGGAGVGKTVLIMELINNVAKAHGGFSVFAGVGERTREGNDLYREMIESGVIKLGEKQSESKCALVYGQMNEPPGARARVGLTGLTVAEYFRDAEGQDVLLFIDNIFRFTQANSEVSALLGRIPSAVGYQPTLASDLGALQERITTTKKGSITSVQAIYVPADDLTDPAPATTFAHLDATTVLSRQISELGIYPAVDPLDSTSRMLSPHILGEEHYNTARGVQKVLQNYKNLQDIIAILGMDELSEDDKLTVARARKIQRFLSQPFHVAEIFTGAPGKYVDLKENINSFQGLLDGKYDDLSEQSFYMVGGIDEVVAKAEKIAKESAA |
| 537 | sp|Q2KJH1|BMP4\_BOVIN | MIPGNRMLMVVLLCQVLLGGASHASLIPETGKKKVAEIQGHAGGRRSGQSHELLRDFEATLLQMFGLRRRPQPSKSAVIPDYMRDLYRLQSGEEEEEEQIQGIGLEYPERPASRANTVRSFHHEEHLENIPGTSENSAFRFLFNLSSIPENEVISSAELRLFREQVDQGPDWDQGFHRINIYEVMKPPAEVVPGHLITRLLDTRLVHHNVTRWETFDVSPAVLRWTREKQPNYGLAIEVTHLHQTRTHQGQHVRISRSLPQGSGDWAQLRPLLVTFGHDGRGHALTRRRRAKRSPKHHPQRARKKNKNCRRHSLYVDFSDVGWNDWIVAPPGYQAFYCHGDCPFPLADHLNSTNHAIVQTLVNSVNSSIPKACCVPTELSAISMLYLDEYDKVVLKNYQEMVVEGCGCR |
| 538 | sp|Q9NSY1|BMP2K\_HUMAN | MKKFSRMPKSEGGSGGGAAGGGAGGAGAGAGCGSGGSSVGVRVFAVGRHQVTLEESLAEGGFSTVFLVRTHGGIRCALKRMYVNNMPDLNVCKREITIMKELSGHKNIVGYLDCAVNSISDNVWEVLILMEYCRAGQVVNQMNKKLQTGFTEPEVLQIFCDTCEAVARLHQCKTPIIHRDLKVENILLNDGGNYVLCDFGSATNKFLNPQKDGVNVVEEEIKKYTTLSYRAPEMINLYGGKPITTKADIWALGCLLYKLCFFTLPFGESQVAICDGNFTIPDNSRYSRNIHCLIRFMLEPDPEHRPDIFQVSYFAFKFAKKDCPVSNINNSSIPSALPEPMTASEAAARKSQIKARITDTIGPTETSIAPRQRPKANSATTATPSVLTIQSSATPVKVLAPGEFGNHRPKGALRPGNGPEILLGQGPPQQPPQQHRVLQQLQQGDWRLQQLHLQHRHPHQQQQQQQQQQQQQQQQQQQQQQQQQQQHHHHHHHHLLQDAYMQQYQHATQQQQMLQQQFLMHSVYQPQPSASQYPTMMPQYQQAFFQQQMLAQHQPSQQQASPEYLTSPQEFSPALVSYTSSLPAQVGTIMDSSYSANRSVADKEAIANFTNQKNISNPPDMSGWNPFGEDNFSKLTEEELLDREFDLLRSNRLEERASSDKNVDSLSAPHNHPPEDPFGSVPFISHSGSPEKKAEHSSINQENGTANPIKNGKTSPASKDQRTGKKTSVQGQVQKGNDESESDFESDPPSPKSSEEEEQDDEEVLQGEQGDFNDDDTEPENLGHRPLLMDSEDEEEEEKHSSDSDYEQAKAKYSDMSSVYRDRSGSGPTQDLNTILLTSAQLSSDVAVETPKQEFDVFGAVPFFAVRAQQPQQEKNEKNLPQHRFPAAGLEQEEFDVFTKAPFSKKVNVQECHAVGPEAHTIPGYPKSVDVFGSTPFQPFLTSTSKSESNEDLFGLVPFDEITGSQQQKVKQRSLQKLSSRQRRTKQDMSKSNGKRHHGTPTSTKKTLKPTYRTPERARRHKKVGRRDSQSSNEFLTISDSKENISVALTDGKDRGNVLQPEESLLDPFGAKPFHSPDLSWHPPHQGLSDIRADHNTVLPGRPRQNSLHGSFHSADVLKMDDFGAVPFTELVVQSITPHQSQQSQPVELDPFGAAPFPSKQ |
| 539 | sp|P43251|BTD\_HUMAN | MAHAHIQGGRRAKSRFVVCIMSGARSKLALFLCGCYVVALGAHTGEESVADHHEAEYYVAAVYEHPSILSLNPLALISRQEALELMNQNLDIYEQQVMTAAQKDVQIIVFPEDGIHGFNFTRTSIYPFLDFMPSPQVVRWNPCLEPHRFNDTEVLQRLSCMAIRGDMFLVANLGTKEPCHSSDPRCPKDGRYQFNTNVVFSNNGTLVDRYRKHNLYFEAAFDVPLKVDLITFDTPFAGRFGIFTCFDILFFDPAIRVLRDYKVKHVVYPTAWMNQLPLLAAIEIQKAFAVAFGINVLAANVHHPVLGMTGSGIHTPLESFWYHDMENPKSHLIIAQVAKNPVGLIGAENATGETDPSHSKFLKILSGDPYCEKDAQEVHCDEATKWNVNAPPTFHSEMMYDNFTLVPVWGKEGYLHVCSNGLCCYLLYERPTLSKELYALGVFDGLHTVHGTYYIQVCALVRCGGLGFDTCGQEITEATGIFEFHLWGNFSTSYIFPLFLTSGMTLEVPDQLGWENDHYFLRKSRLSSGLVTAALYGRLYERD |
| 540 | sp|Q9ZPS9|BRL2\_ARATH | MTTSPIRVRIRTRIQISFIFLLTHLSQSSSSDQSSLKTDSLSLLSFKTMIQDDPNNILSNWSPRKSPCQFSGVTCLGGRVTEINLSGSGLSGIVSFNAFTSLDSLSVLKLSENFFVLNSTSLLLLPLTLTHLELSSSGLIGTLPENFFSKYSNLISITLSYNNFTGKLPNDLFLSSKKLQTLDLSYNNITGPISGLTIPLSSCVSMTYLDFSGNSISGYISDSLINCTNLKSLNLSYNNFDGQIPKSFGELKLLQSLDLSHNRLTGWIPPEIGDTCRSLQNLRLSYNNFTGVIPESLSSCSWLQSLDLSNNNISGPFPNTILRSFGSLQILLLSNNLISGDFPTSISACKSLRIADFSSNRFSGVIPPDLCPGAASLEELRLPDNLVTGEIPPAISQCSELRTIDLSLNYLNGTIPPEIGNLQKLEQFIAWYNNIAGEIPPEIGKLQNLKDLILNNNQLTGEIPPEFFNCSNIEWVSFTSNRLTGEVPKDFGILSRLAVLQLGNNNFTGEIPPELGKCTTLVWLDLNTNHLTGEIPPRLGRQPGSKALSGLLSGNTMAFVRNVGNSCKGVGGLVEFSGIRPERLLQIPSLKSCDFTRMYSGPILSLFTRYQTIEYLDLSYNQLRGKIPDEIGEMIALQVLELSHNQLSGEIPFTIGQLKNLGVFDASDNRLQGQIPESFSNLSFLVQIDLSNNELTGPIPQRGQLSTLPATQYANNPGLCGVPLPECKNGNNQLPAGTEEGKRAKHGTRAASWANSIVLGVLISAASVCILIVWAIAVRARRRDADDAKMLHSLQAVNSATTWKIEKEKEPLSINVATFQRQLRKLKFSQLIEATNGFSAASMIGHGGFGEVFKATLKDGSSVAIKKLIRLSCQGDREFMAEMETLGKIKHRNLVPLLGYCKIGEERLLVYEFMQYGSLEEVLHGPRTGEKRRILGWEERKKIAKGAAKGLCFLHHNCIPHIIHRDMKSSNVLLDQDMEARVSDFGMARLISALDTHLSVSTLAGTPGYVPPEYYQSFRCTAKGDVYSIGVVMLEILSGKRPTDKEEFGDTNLVGWSKMKAREGKHMEVIDEDLLKEGSSESLNEKEGFEGGVIVKEMLRYLEIALRCVDDFPSKRPNMLQVVASLRELRGSENNSHSHSNSL |
| 541 | sp|Q6NVD9|BFSP2\_MOUSE | MSKRRVAADLPSGTNSSMPVQRHRVSSLRGTHSPSSLDSPPASRTSAVGSLVRAPGVYVGVAPSGGIGGLGARVTRRALGISSVFLQGLRSSGLANVPAPGPERDHTTVEDLGGCLVEYMTKVHALEQVSQELETQLRAHLESKAKSSGGWDALRASWASSYQQVGEAVLENARLLLQMETIQAGADDFKERYENEQPFRKAAEEEVSSLYKVIDEANLTKTDLEHQIESLKEELGFLSRSYEEDVKVLYKQLAGSELEQADVPMGTGLDDVLETIRVQWERDVEKNRAEAGALLQAKQQTEVVHVSQTQEEKLAAALSVELHDTSRQVQSLQAETESLRALKRGLENSLHDAQHWHDMELQNLGAVVGRLEAELAEIRSETEQQQQERAHLLACKSQLQKDVASYHALLDREENN |
| 542 | sp|Q86VB7|C163A\_HUMAN | MSKLRMVLLEDSGSADFRRHFVNLSPFTITVVLLLSACFVTSSLGGTDKELRLVDGENKCSGRVEVKVQEEWGTVCNNGWSMEAVSVICNQLGCPTAIKAPGWANSSAGSGRIWMDHVSCRGNESALWDCKHDGWGKHSNCTHQQDAGVTCSDGSNLEMRLTRGGNMCSGRIEIKFQGRWGTVCDDNFNIDHASVICRQLECGSAVSFSGSSNFGEGSGPIWFDDLICNGNESALWNCKHQGWGKHNCDHAEDAGVICSKGADLSLRLVDGVTECSGRLEVRFQGEWGTICDDGWDSYDAAVACKQLGCPTAVTAIGRVNASKGFGHIWLDSVSCQGHEPAIWQCKHHEWGKHYCNHNEDAGVTCSDGSDLELRLRGGGSRCAGTVEVEIQRLLGKVCDRGWGLKEADVVCRQLGCGSALKTSYQVYSKIQATNTWLFLSSCNGNETSLWDCKNWQWGGLTCDHYEEAKITCSAHREPRLVGGDIPCSGRVEVKHGDTWGSICDSDFSLEAASVLCRELQCGTVVSILGGAHFGEGNGQIWAEEFQCEGHESHLSLCPVAPRPEGTCSHSRDVGVVCSRYTEIRLVNGKTPCEGRVELKTLGAWGSLCNSHWDIEDAHVLCQQLKCGVALSTPGGARFGKGNGQIWRHMFHCTGTEQHMGDCPVTALGASLCPSEQVASVICSGNQSQTLSSCNSSSLGPTRPTIPEESAVACIESGQLRLVNGGGRCAGRVEIYHEGSWGTICDDSWDLSDAHVVCRQLGCGEAINATGSAHFGEGTGPIWLDEMKCNGKESRIWQCHSHGWGQQNCRHKEDAGVICSEFMSLRLTSEASREACAGRLEVFYNGAWGTVGKSSMSETTVGVVCRQLGCADKGKINPASLDKAMSIPMWVDNVQCPKGPDTLWQCPSSPWEKRLASPSEETWITCDNKIRLQEGPTSCSGRVEIWHGGSWGTVCDDSWDLDDAQVVCQQLGCGPALKAFKEAEFGQGTGPIWLNEVKCKGNESSLWDCPARRWGHSECGHKEDAAVNCTDISVQKTPQKATTGRSSRQSSFIAVGILGVVLLAIFVALFFLTKKRRQRQRLAVSSRGENLVHQIQYREMNSCLNADDLDLMNSSENSHESADFSAAELISVSKFLPISGMEKEAILSHTEKENGNL |
| 543 | sp|P26453|BASI\_RAT | MAAALLLALAFTFLSGQGACAAAGFLKAPMSQEQWAGGSVVLHCEAVGSPMPEIQWWFEGNEPNDSCSQLWDGARLDRVHIHATYRQHAASTLSVDGLAAEDTGTYECRASSDPDRNHLTRPPRVKWVRAQASVVVLEPGTIVTSVQEVDSKTQLTCFLNSSGIDIVGHRWMRGGKVLQEDTLPDLQMKYTVDADDRSGEYSCIFLPEPVGRGNINVEGPPRIKVGKKSEHASEGEFVKLICKSEASHPPVDEWVWFKTSDTGDQTISNGTEANSKYVIISTPELSELIISDLDMNVDPGTYVCNATNSQGSARETISLRVRSRLAALWPFLGIVAEVLVLVTIIFIYEKRRKPDQTLDEDDPGAAPLKGSGSHLNDKDKNVRQRNAT |
| 544 | sp|Q63767|BCAR1\_RAT | MKYLVSVGAGPARRAGGLEDVSWGPRVSRRPQSYRAARHVNESLPRSAFRVPAAHGASVTPSAALGSGLPETQPEAVCRGTEKPRFAEGCKPAASRDKNVLAKALYDNVAESPDELSFRKGDIMTVLERDTQGLDGWWLCSLHGRQGIVPGNRLKILVGMYDKKPAAPGPGPPATPPQPQPSLPQGVHTPVPPASQYSPMLPTAYQPQPDNVYLVPTPSKTQQGLYQAPGPNPQFQSPPAKQTSTFSKQTPHHSFPSPATDLYQVPPGPGSPAQDIYQVPPSAGTGHDIYQVPPSLDTRSWEGTKPPAKVVVPTRVGQGYVYEASQAEQDEYDTPRHLLAPGSQDIYDVPPVRGLLPNQYGQEVYDTPPMAVKGPNGRDPLLDVYDVPPSVEKGLPPSNHHSVYDVPPSVSKDVPDGPLLREETYDVPPAFAKPKPFDPTRHPLILAAPPPDSPPAEDVYDVPPPAPDLYDVPPGLRRPGPGTLYDVPRERVLPPEVADGSVIDDGVYAVPPPAEREAPTDGKRLSASSTGSTRSSQSASSLEVVVPGREPLELEVAVETLARLQQGVSTTVAHLLDLVGSASGPGGWRSTSEPQEPPVQDLKAAVAAVHGAVHELLEFARSAVSSATHTSDRTLHAKLSRQLQKMEDVYQTLVVHGQVLDSGRGGPGFTLDDLDRLVACSRAVPEDAKQLASFLHGNASLLFRRTKAPGPGPEGSSSLHLNPTDKASSIQSRPLPSPPKFTSQDSPDGQYENSEGGWMEDYDYVHLQGKEEFEKTQKELLEKGNIVRQGKGQLELQQLKQFERLEQEVSRPIDHDLANWTPAQPLVPGRTGGLGPSDRQLLLFYLEQCEANLTTLTDAVDAFFTAVATNQPPKIFVAHSKFVILSAHKLVFIGDTLSRQAKAADVRSKVTHYSNLLCDLLRGIVATTKAAALQYPSPSAAQDMVDRVKELGHSTQQFRRVLGQLAAA |
| 545 | sp|P30995|BXE\_CLOBU | MPTINSFNYNDPVNNRTILYIKPGGCQQFYKSFNIMKNIWIIPERNVIGTIPQDFLPPTSLKNGDSSYYDPNYLQSDQEKDKFLKIVTKIFNRINDNLSGRILLEELSKANPYLGNDNTPDGDFIINDASAVPIQFSNGSQSILLPNVIIMGAEPDLFETNSSNISLRNNYMPSNHGFGSIAIVTFSPEYSFRFKDNSMNEFIQDPALTLMHELIHSLHGLYGAKGITTKYTITQKQNPLITNIRGTNIEEFLTFGGTDLNIITSAQSNDIYTNLLADYKKIASKLSKVQVSNPLLNPYKDVFEAKYGLDKDASGIYSVNINKFNDIFKKLYSFTEFDLATKFQVKCRQTYIGQYKYFKLSNLLNDSIYNISEGYNINNLKVNFRGQNANLNPRIITPITGRGLVKKIIRFCKNIVSVKGIRKSICIEINNGELFFVASENSYNDDNINTPKEIDDTVTSNNNYENDLDQVILNFNSESAPGLSDEKLNLTIQNDAYIPKYDSNGTSDIEQHDVNELNVFFYLDAQKVPEGENNVNLTSSIDTALLEQPKIYTFFSSEFINNVNKPVQAALFVGWIQQVLVDFTTEANQKSTVDKIADISIVVPYIGLALNIGNEAQKGNFKDALELLGAGILLEFEPELLIPTILVFTIKSFLGSSDNKNKVIKAINNALKERDEKWKEVYSFIVSNWMTKINTQFNKRKEQMYQALQNQVNALKAIIESKYNSYTLEEKNELTNKYDIEQIENELNQKVSIAMNNIDRFLTESSISYLMKLINEVKINKLREYDENVKTYLLDYIIKHGSILGESQQELNSMVIDTLNNSIPFKLSSYTDDKILISYFNKFFKRIKSSSVLNMRYKNDKYVDTSGYDSNININGDVYKYPTNKNQFGIYNDKLSEVNISQNDYIIYDNKYKNFSISFWVRIPNYDNKIVNVNNEYTIINCMRDNNSGWKVSLNHNEIIWTLQDNSGINQKLAFNYGNANGISDYINKWIFVTITNDRLGDSKLYINGNLIDKKSILNLGNIHVSDNILFKIVNCSYTRYIGIRYFNIFDKELDETEIQTLYNNEPNANILKDFWGNYLLYDKEYYLLNVLKPNNFINRRTDSTLSINNIRSTILLANRLYSGIKVKIQRVNNSSTNDNLVRKNDQVYINFVASKTHLLPLYADTATTNKEKTIKISSSGNRFNQVVVMNSVGNCTMNFKNNNGNNIGLLGFKADTVVASTWYYTHMRDNTNSNGFFWNFISEEHGWQEK |
| 546 | sp|Q8H1B3|BIP3\_ARATH | MIFIKENTAKMTRNKAIACLVFLTVLDFLMNIGAALMSSLAIEGEEQKLGTVIGIDLGTTYSCVGVYHNKHVEIIANDQGNRITPSWVAFTDTERLIGEAAKNQAAKNPERTIFDPKRLIGRKFDDPDVQRDIKFLPYKVVNKDGKPYIQVKVKGEEKLFSPEEISAMILTKMKETAEAFLGKKIKDAVITVPAYFNDAQRQATKDAGAIAGLNVVRIINEPTGAAIAYGLDKKGGESNILVYDLGGGTFDVSILTIDNGVFEVLSTSGDTHLGGEDFDHRVMDYFIKLVKKKYNKDISKDHKALGKLRRECELAKRSLSNQHQVRVEIESLFDGVDFSEPLTRARFEELNMDLFKKTMEPVKKALKDAGLKKSDIDEIVLVGGSTRIPKVQQMLKDFFDGKEPSKGTNPDEAVAYGAAVQGGVLSGEGGEETQNILLLDVAPLSLGIETVGGVMTNIIPRNTVIPTKKSQVFTTYQDQQTTVTINVYEGERSMTKDNRELGKFDLTGILPAPRGVPQIEVTFEVDANGILQVKAEDKVAKTSQSITITNDKGRLTEEEIEEMIREAEEFAEEDKIMKEKIDARNKLETYVYNMKSTVADKEKLAKKISDEDKEKMEGVLKEALEWLEENVNAEKEDYDEKLKEVELVCDPVIKSVYEKTEGENEDDDGDDHDEL |
| 547 | sp|P10506|BYR1\_SCHPO | MFKRRRNPKGLVLNPNASVKSSDNDHKEELINNQKSFESNVEAFMEQCAHMNRRPAWISDLDNSSLEVVRHLGEGNGGAVSLVKHRNIFMARKTVYVGSDSKLQKQILRELGVLHHCRSPYIVGFYGAFQYKNNISLCMEYMDCGSLDAILREGGPIPLDILGKIINSMVKGLIYLYNVLHIIHRDLKPSNVVVNSRGEIKLCDFGVSGELVNSVAQTFVGTSTYMSPERIRGGKYTVKSDIWSLGISIIELATQELPWSFSNIDDSIGILDLLHCIVQEEPPRLPSSFPEDLRLFVDACLHKDPTLRASPQQLCAMPYFQQALMINVDLASWASNFRSS |
| 548 | sp|P56819|BACE1\_RAT | MAPALRWLLLWVGSGMLPAQGTHLGIRLPLRSGLAGPPLGLRLPRETDEEPEEPGRRGSFVEMVDNLRGKSGQGYYVEMTVGSPPQTLNILVDTGSSNFAVGAAPHPFLHRYYQRQLSSTYRDLRKSVYVPYTQGKWEGELGTDLVSIPHGPNVTVRANIAAITESDKFFINGSNWEGILGLAYAEIARPDDSLEPFFDSLVKQTHIPNIFSLQLCGAGFPLNQTEALASVGGSMIIGGIDHSLYTGSLWYTPIRREWYYEVIIVRVEINGQDLKMDCKEYNYDKSIVDSGTTNLRLPKKVFEAAVKSIKAASSTEKFPDGFWLGEQLVCWQAGTTPWNIFPVISLYLMGEVTNQSFRITILPQQYLRPVEDVATSQDDCYKFAVSQSSTGTVMGAVIMEGFYVVFDRARKRIGFAVSACHVHDEFRTAAVEGPFVTADMEDCGYNIPQTDESTLMTIAYVMAAICALFMLPLCLMVCQWRCLRCLRHQHDDFADDISLLK |
| 549 | sp|B0F481|BIODA\_ARATH | MIPVTATLIRHRLRHLRHRIRFKSTSVSPFHLPLNHPTYLIWSANTSLGKTLVSTGIAASFLLQQPSSSATKLLYLKPIQTGFPSDSDSRFVFSKLDSLSLRRQIPISISNSVLHSSLPAAKSLGLNVEVSESGMCSLNFRDEKTVTGAPELLCKTLYAWEAAISPHLAAERENATVEDSVVLQMIEKCLKEEMECGVKSEKSDLLCLVETAGGVASPGPSGTLQCDLYRPFRLPGILVGDGRLGGISGTIAAYESLKLRGYDIAAVVFEDHGLVNEVPLTSYLRNKVPVLVLPPVPKDPSDDLIEWFVESDGVFKALKETMVLANLERLERLNGMAKLAGEVFWWPFTQHKLVHQETVTVIDSRCGENFSIYKASDNSSLSQQFDACASWWTQGPDPTFQAELAREMGYTAARFGHVMFPENVYEPALKCAELLLDGVGKGWASRVYFSDNGSTAIEIALKMAFRKFCVDHNFCEATEEEKHIVVKVIALRGSYHGDTLGAMEAQAPSPYTGFLQQPWYTGRGLFLDPPTVFLSNGSWNISLPESFSEIAPEYGTFTSRDEIFDKSRDASTLARIYSAYLSKHLQEHSGVRQSAHVGALIIEPVIHGAGGMHMVDPLFQRVLVNECRNRKIPVIFDEVFTGFWRLGVETTTELLGCKPDIACFAKLLTGGMVPLAVTLATDAVFDSFSGDSKLKALLHGHSYSAHAMGCATAAKAIQWFKDPETNHNITSQGKTLRELWDEELVQQISSHSAVQRVVVIGTLFALELKADASNSGYASLYAKSLLIMLREDGIFTRPLGNVIYLMCGPCTSPEICRRLLTKLYKRLGEFNRT |
| 550 | sp|B2IZD3|BDLP\_NOSP7 | MVNQVATDRFIQDLERVAQVRSEMSVCLNKLAETINKAELAGDSSSGKLSLERDIEDITIASKNLQQGVFRLLVLGDMKRGKSTFLNALIGENLLPSDVNPCTAVLTVLRYGPEKKVTIHFNDGKSPQQLDFQNFKYKYTIDPAEAKKLEQEKKQAFPDVDYAVVEYPLTLLQKGIEIVDSPGLNDTEARNELSLGYVNNCHAILFVMRASQPCTLGERRYLENYIKGRGLTVFFLVNAWDQVRESLIDPDDVEELQASENRLRQVFNANLAEYCTVEGQNIYDERVFELSSIQALRRRLKNPQADLDGTGFPKFMDSLNTFLTRERAIAELRQVRTLARLACNHTREAVARRIPLLEQDVNELKKRIDSVEPEFNKLTGIRDEFQKEIINTRDTQARTISESFRSYVLNLGNTFENDFLRYQPELNLFDFLSSGKREAFNAALQKAFEQYITDKSAAWTLTAEKDINAAFKELSRSASQYGASYNQITDQITEKLTGKDVKVHTTTTAEEDNSPGWAKWAMGLLSLSKGNLAGFALAGAGFDWKNILLNYFTVIGIGGIITAVTGILLGPIGFALLGLGVGFLQADQARRELVKTAKKELVKHLPQVAHEQSQVVYNAVKECFDSYEREVSKRINDDIVSRKSELDNLVKQKQTREINRESEFNRLKNLQEDVIAQLQKIEAAYSNLLAYYS |
| 551 | sp|Q58F21|BRDT\_HUMAN | MSLPSRQTAIIVNPPPPEYINTKKNGRLTNQLQYLQKVVLKDLWKHSFSWPFQRPVDAVKLQLPDYYTIIKNPMDLNTIKKRLENKYYAKASECIEDFNTMFSNCYLYNKPGDDIVLMAQALEKLFMQKLSQMPQEEQVVGVKERIKKGTQQNIAVSSAKEKSSPSATEKVFKQQEIPSVFPKTSISPLNVVQGASVNSSSQTAAQVTKGVKRKADTTTPATSAVKASSEFSPTFTEKSVALPPIKENMPKNVLPDSQQQYNVVKTVKVTEQLRHCSEILKEMLAKKHFSYAWPFYNPVDVNALGLHNYYDVVKNPMDLGTIKEKMDNQEYKDAYKFAADVRLMFMNCYKYNPPDHEVVTMARMLQDVFETHFSKIPIEPVESMPLCYIKTDITETTGRENTNEASSEGNSSDDSEDERVKRLAKLQEQLKAVHQQLQVLSQVPFRKLNKKKEKSKKEKKKEKVNNSNENPRKMCEQMRLKEKSKRNQPKKRKQQFIGLKSEDEDNAKPMNYDEKRQLSLNINKLPGDKLGRVVHIIQSREPSLSNSNPDEIEIDFETLKASTLRELEKYVSACLRKRPLKPPAKKIMMSKEELHSQKKQELEKRLLDVNNQLNSRKRQTKSDKTQPSKAVENVSRLSESSSSSSSSSESESSSSDLSSSDSSDSESEMFPKFTEVKPNDSPSKENVKKMKNECIPPEGRTGVTQIGYCVQDTTSANTTLVHQTTPSHVMPPNHHQLAFNYQELEHLQTVKNISPLQILPPSGDSEQLSNGITVMHPSGDSDTTMLESECQAPVQKDIKIKNADSWKSLGKPVKPSGVMKSSDELFNQFRKAAIEKEVKARTQELIRKHLEQNTKELKASQENQRDLGNGLTVESFSNKIQNKCSGEEQKEHQQSSEAQDKSKLWLLKDRDLARQKEQERRRREAMVGTIDMTLQSDIMTMFENNFD |
| 552 | sp|Q8CDJ3|BAKOR\_MOUSE | MASPSGKGSWTPEAPGFGPRALARDLVDSVDDAEGLYVAVERCPLCNTTRRRLTCAKCVQSGDFVYFDGRDRERFIDKKERLSQLKNKQEEFQKEVLKAMEGKRLTDQLRWKIMSCKMRIEQLKQTICKGNEEMKKNSEGLLKNKEKNQKLYSRAQRHQEKKEKIQRHNRKLGDLVEKKTIDLKSHYERLARLRRSHILELTSIIFPIDEVKTSGRDPADVSSETDSAMTSSMVSKLAEARRTTYLSGRWVCDDHNGDTSISITGPWISLPNNGDYSAYYNWVEEKKTTQGPDMEHNNPAYTISAALGYATQLVNIVSHILDINLPKKLCNSEFCGENLSKQKLTRAVRKLNANILYLCSSQHVNLDQLQPLHTLRNLMHLVSPRSEHLGRSGPFEVRADLEESMEFVDPGVAGESDASGDERVSDEETDLGTDWENLPSPRFCDIPSQPVEVSQSQSTQVSPPIASSSAGGMISSAAASVTSWFKAYTGHR |
| 553 | sp|Q07817|B2CL1\_HUMAN | MSQSNRELVVDFLSYKLSQKGYSWSQFSDVEENRTEAPEGTESEMETPSAINGNPSWHLADSPAVNGATGHSSSLDAREVIPMAAVKQALREAGDEFELRYRRAFSDLTSQLHITPGTAYQSFEQVVNELFRDGVNWGRIVAFFSFGGALCVESVDKEMQVLVSRIAAWMATYLNDHLEPWIQENGGWDTFVELYGNNAAAESRKGQERFNRWFLTGMTVAGVVLLGSLFSRK |
| 554 | sp|Q9Z222|B3GN2\_MOUSE | MSVGRRRVKLLGILMMANVFIYLIVEVSKNSSQDKNGKGGVIIPKEKFWKPPSTPRAYWNREQEKLNRWYNPILNRVANQTGELATSPNTSHLSYCEPDSTVMTAVTDFNNLPDRFKDFLLYLRCRNYSLLIDQPKKCAKKPFLLLAIKSLIPHFARRQAIRESWGRETNVGNQTVVRVFLLGKTPPEDNHPDLSDMLKFESDKHQDILMWNYRDTFFNLSLKEVLFLRWVSTSCPDAEFVFKGDDDVFVNTHHILNYLNSLSKSKAKDLFIGDVIHNAGPHRDKKLKYYIPEVFYTGVYPPYAGGGGFLYSGPLALRLYSATSRVHLYPIDDVYTGMCLQKLGLVPEKHKGFRTFDIEEKNKKNICSYIDLMLVHSRKPQEMIDIWSQLQSPNLKC |
| 555 | sp|P21611|B2MG\_CHICK | MGKAAAVVLVTLVALLGLAQADLTPKVQVYSRFPASAGTKNVLNCFAAGFHPPKISITLMKDGVPMEGAQYSDMSFNDDWTFQRLVHADFTPSSGSTYACKVEHETLKEPQVYKWDPEF |
| 556 | sp|O35147|BAD\_RAT | MGTPKQPSLAPAHALGLRKSDPGIRSLGSDAGGRRWRPAAQSMFQIPEFEPSEQEDASTTDRGLGPSLTEDQPGPYLAPGLLGSIVQQQPGQAANNSHHGGAGTMETRSRHSSYPAGTEEDEGMEEELSPFRGRSRSAPPNLWAAQRYGRELRRMSDEFEGSFKGLPRPKSAGTATQMRQSASWTRIIQSWWDRNLGKGGSTPSQ |
| 557 | sp|Q80WN8|B4GT3\_CRIGR | MLRRLLERPCTLALLVGSQLAVMMYLSLGGFRSLSALFGRDQGPTFDYSHPRDVYSNLSHLPGAPVAAGASPAEALPFCPERSPFLVGPVSVSFSPVPSLAEIVERNPRVEPGGRYRPAGCEARSRTAIIVPHRAREHHLRLLLYHLHPFLQRQQLAYGIYVIHQAGNGMFNRAKLLNVGVREALRDEEWDCLFLHDVDLLPENDHNLYVCDPRGPRHVAVAMNKFGYSLPYPQYFGGVSALTPDQYLKMNGFPNEYWGWGGEDDDIATRVRLAGMKISRPPTSVGHYKMVKHRGDKGNEENPHRFDLLVRTQNSWTQDGMNSLTYQLLAKELGPLYTNITADIGTDPRGPRAPSGPRYPPGSSQAFRQEMLQRRPPARPGPLPTANHTAPHGSH |
| 558 | sp|O88419|B4GT6\_RAT | MSALKRMMRVSNRSLIAFIFFFSLSTSCLYFIYVAPGIANTYLFMVQARGIMLRENVKTIGHMIRLYTNKNTTLNGTDYPEGNNTSDYLVQTTTYLPQNFTYSPHLPCPEKLPYMRGFLSVNVSEISFDEVHQLFSKDSEIEPGGHWRPQDCKPRWKVAVLIPFRNRHEHLPIFFLHLIPMLQKQRLEFAFYVIEQTGTQPFNRAMLFNVGFKEAMKDRAWDCVIFHDVDHLPENDRNYYGCGEMPRHFAAKLDKYMYILPYKEFFGGVSGLTVEQFRKINGFPNAFWGWGGEDDDLWNRVHYSGYNVTRPEGDLGKYTSIPHHHRGEVQFLGRYKLLRYSKERQFIDGLNNLLYTPKILVDRLYTNISVNLMPELAPVEDY |
| 559 | sp|Q9SRX9|BAH1\_ARATH | MKFCKKYEEYMQGQKEKKNLPGVGFKKLKKILKRCRRNHVPSRISFTDAINHNCSRECPVCDGTFFPELLKEMEDVVGWFNEHAQKLLELHLASGFTKCLTWLRGNSRKKDHHGLIQEGKDLVNYALINAVAIRKILKKYDKIHESRQGQAFKTQVQKMRIEILQSPWLCELMAFHINLKESKKESGATITSPPPPVHALFDGCALTFDDGKPLLSCELSDSVKVDIDLTCSICLDTVFDPISLTCGHIYCYMCACSAASVNVVDGLKTAEATEKCPLCREDGVYKGAVHLDELNILLKRSCRDYWEERRKTERAERLQQAKEYWDYQCRSFTGI |
| 560 | sp|Q8N715|CC185\_HUMAN | MAGFSHFSQPPYRDLWEPPRPGGERESTQRLGGQRSGADSTACSRAGTPGAESEAGACWLHPHCSFTPRPRRRGCSDSLRGSRSLSDVARRPLERSRKHRPRSRRLEDAWGETGTKPRPAWQPQTQLPPQRPQPCPHYPLAQGDSPPPCPGGAGTPLSGTFRVEKAQGGDQWAVPLGRHLGRWSPSSVPSERSSVPSQKFKRHSACVCAQKRDSSDQVESLASRDSQPLASSKEMRSPHTQVLKSKLEEVVVSSQDQQIVALVLTRLKKAQRIRELQQQAAKAWEELKRSDQKVQMTLERERRLLLRQSQEQWQEKEQRKTLQSPEQRGLRRDSQRKNVPPGESRWKEQPEDQESPRQEKLEKARAQAEHRKQCQVRRLREQEKMLRNLREQHSLQLQRRLVEACRKRHLHAVEGQKKVQDTNLSSLINYQARKVLMDCQAKAEELLRQLSLEQSFQRSQEIHQGLRKERQRELREKAQKEEEQLQQARWRAGESEEQRKMRKRILVELADEKIRQARSHVHKTTRDKVQHLRELNHLREKNHHILKLKAEKEEKCHIEGIKEAIKKKEQRVQHISQGKDPNFQEFQKLPQASRREERAPPNSSLDQMVLEAQLRACQQNRGY |
| 561 | sp|Q9UL15|BAG5\_HUMAN | MDMGNQHPSISRLQEIQKEVKSVEQQVIGFSGLSDDKNYKKLERILTKQLFEIDSVDTEGKGDIQQARKRAAQETERLLKELEQNANHPHRIEIQNIFEEAQSLVREKIVPFYNGGNCVTDEFEEGIQDIILRLTHVKTGGKISLRKARYHTLTKICAVQEIIEDCMKKQPSLPLSEDAHPSVAKINFVMCEVNKARGVLIALLMGVNNNETCRHLSCVLSGLIADLDALDVCGRTEIRNYRREVVEDINKLLKYLDLEEEADTTKAFDLRQNHSILKIEKVLKRMREIKNELLQAQNPSELYLSSKTELQGLIGQLDEVSLEKNPCIREARRRAVIEVQTLITYIDLKEALEKRKLFACEEHPSHKAVWNVLGNLSEIQGEVLSFDGNRTDKNYIRLEELLTKQLLALDAVDPQGEEKCKAARKQAVRLAQNILSYLDLKSDEWEY |
| 562 | sp|Q7RTU4|BHA09\_HUMAN | MLRGAPGLGLTARKGAEDSAEDLGGPCPEPGGDSGVLGANGASCSRGEAEEPAGRRRARPVRSKARRMAANVRERKRILDYNEAFNALRRALRHDLGGKRLSKIATLRRAIHRIAALSLVLRASPAPRGPCGHLECHGPAARGDTGDTGASPPPPAGPSLARPDAARPSVPSAPRCASCPPHAPLARPSAVAEGPGLAQASGGSWRRCPGASSAGPPPWPRGYLRSAPGMGHPRS |
| 563 | sp|Q9UKL3|C8AP2\_HUMAN | MAADDDNGDGTSLFDVFSASPLKNNDEGSLDIYAGLDSAVSDSASKSCVPSRNCLDLYEEILTEEGTAKEATYNDLQVEYGKCQLQMKELMKKFKEIQTQNFSLINENQSLKKNISALIKTARVEINRKDEEISNLHQRLSEFPHFRNNHKTARTFDTVKTKDLKSRSPHLDDCSKTDHRAKSDVSKDVHHSTSLPNLEKEGKPHSDKRSTSHLPTSVEKHCTNGVWSRSHYQVGEGSSNEDSRRGRKDIRHSQFNRGTERVRKDLSTGCGDGEPRILEASQRLQGHPEKYGKGEPKTESKSSKFKSNSDSDYKGERINSSWEKETPGERSHSRVDSQSDKKLERQSERSQNINRKEVKSQDKEERKVDQKPKSVVKDQDHWRRSERASLPHSKNEITFSHNSSKYHLEERRGWEDCKRDKSVNSHSFQDGRCPSSLSNSRTHKNIDSKEVDAMHQWENTPLKAERHRTEDKRKREQESKEENRHIRNEKRVPTEHLQKTNKETKKTTTDLKKQNEPKTDKGEVLDNGVSEGADNKELAMKAESGPNETKNKDLKLSFMKKLNLTLSPAKKQPVSQDNQHKITDIPKSSGVCDSESSMQVKTVAYVPSISEHILGEAAVSEHTMGETKSTLLEPKVALLAVTEPRIGISETNKEDENSLLVRSVDNTMHCEEPICGTETSFPSPMEIQQTESLFPSTGMKQTINNGRAAAPVVMDVLQTDVSQNFGLELDTKRNDNSDYCGISEGMEMKVALSTTVSETTESILQPSIEEADILPIMLSEDNNPKFEPSVIVTPLVESKSCHLEPCLPKETLDSSLQQTELMDHRMATGETNSVYHDDDNSVLSIDLNHLRPIPEAISPLNSPVRPVAKVLRNESPPQVPVYNNSHKDVFLPNSAHSTSKSQSDLNKENQKPIYKSDKCTEADTCKNSPLDELEEGEIRSDSETSKPQESFEKNSKRRVSADVRKSKTIPRRGKSTVCLDKDSRKTHVRIHQTNNKWNKRPDKSSRSSKTEKKDKVMSTSSLEKIVPIIAVPSSEQEIMHMLRMIRKHVRKNYMKFKAKFSLIQFHRIIESAILSFTSLIKHLNLHKISKSVTTLQKNLCDIIESKLKQVKKNGIVDRLFEQQLPDMKKKLWKFVDDQLDYLFAKLKKILVCDSKSFGRDSDEGKLEKTSKQNAQYSNSQKRSVDNSNRELLKEKLSKSEDPVHYKSLVGCKKSEENYQDQNNSSINTVKHDIKKNFNICFDNIKNSQSEERSLEVHCPSTPKSEKNEGSSIEDAQTSQHATLKPERSFEILTEQQASSLTFNLVSDAQMGEIFKSLLQGSDLLDSSVNCTEKSEWELKTPEKQLLETLKCESIPACTTEELVSGVASPCPKMISDDNWSLLSSEKGPSLSSGLSLPVHPDVLDESCMFEVSTNLPLSKDNVCSVEKSKPCVSSILLEDLAVSLTVPSPLKSDGHLSFLKPDMSSSSTPEEVISAHFSEDALLEEEDASEQDIHLALESDNSSSKSSCSSSWTSRSVAPGFQYHPNLPMHAVIMEKSNDHFIVKIRRATPSTSSGLKQSMMPDELLTSLPRHGKEADEGPEKEYISCQNTVFKSVEELENSNKNVDGSKSTHEEQSSMIQTQVPDIYEFLKDASDKMGHSDEVADECFKLHQVWETKVPESIEELPSMEEISHSVGEHLPNTYVDLTKDPVTETKNLGEFIEVTVLHIDQLGCSGGNLNQSAQILDNSLQADTVGAFIDLTQDASSEAKSEGNHPALAVEDLGCGVIQVDEDNCKEEKAQVANRPLKCIVEETYIDLTTESPSSCEVKKDELKSEPGSNCDNSELPGTLHNSHKKRRNISDLNHPHKKQRKETDLTNKEKTKKPTQDSCENTEAHQKKASKKKAPPVTKDPSSLKATPGIKDSSAALATSTSLSAKNVIKKKGEIIILWTRNDDREILLECQKRGPSFKTFAYLAAKLDKNPNQVSERFQQLMKLFEKSKCR |
| 564 | sp|P04711|CAPP1\_MAIZE | MASTKAPGPGEKHHSIDAQLRQLVPGKVSEDDKLIEYDALLVDRFLNILQDLHGPSLREFVQECYEVSADYEGKGDTTKLGELGAKLTGLAPADAILVASSILHMLNLANLAEEVQIAHRRRNSKLKKGGFADEGSATTESDIEETLKRLVSEVGKSPEEVFEALKNQTVDLVFTAHPTQSARRSLLQKNARIRNCLTQLNAKDITDDDKQELDEALQREIQAAFRTDEIRRAQPTPQAEMRYGMSYIHETVWKGVPKFLRRVDTALKNIGINERLPYNVSLIRFSSWMGGDRDGNPRVTPEVTRDVCLLARMMAANLYIDQIEELMFELSMWRCNDELRVRAEELHSSSGSKVTKYYIEFWKQIPPNEPYRVILGHVRDKLYNTRERARHLLASGVSEISAESSFTSIEEFLEPLELCYKSLCDCGDKAIADGSLLDLLRQVFTFGLSLVKLDIRQESERHTDVIDAITTHLGIGSYREWPEDKRQEWLLSELRGKRPLLPPDLPQTDEIADVIGAFHVLAELPPDSFGPYIISMATAPSDVLAVELLQRECGVRQPLPVVPLFERLADLQSAPASVERLFSVDWYMDRIKGKQQVMVGYSDSGKDAGRLSAAWQLYRAQEEMAQVAKRYGVKLTLFHGRGGTVGRGGGPTHLAILSQPPDTINGSIRVTVQGEVIEFCFGEEHLCFQTLQRFTAATLEHGMHPPVSPKPEWRKLMDEMAVVATEEYRSVVVKEARFVEYFRSATPETEYGRMNIGSRPAKRRPGGGITTLRAIPWIFSWTQTRFHLPVWLGVGAAFKFAIDKDVRNFQVLKEMYNEWPFFRVTLDLLEMVFAKGDPGIAGLYDELLVAEELKPFGKQLRDKYVETQQLLLQIAGHKDILEGDPFLKQGLVLRNPYITTLNVFQAYTLKRIRDPNFKVTPQPPLSKEFADENKPAGLVKLNPASEYPPGLEDTLILTMKGIAAGMQNTG |
| 565 | sp|P29402|CALX1\_ARATH | MRQRQLFSVFLLLLAFVSFQKLCYCDDQTVLYESFDEPFDGRWIVSKNSDYEGVWKHAKSEGHEDYGLLVSEKARKYGIVKELDEPLNLKEGTVVLQYEVRFQEGLECGGAYLKYLRPQEAGWTPQGFDSESPYSIMFGPDKCGGTNKVHFILKHKNPKSGEYVEHHLKFPPSVPYDKLSHVYTAILKPDNEVRILVDGEEKKKANLLSGEDFEPALIPAKTIPDPEDKKPEDWDERAKIPDPNAVKPEDWDEDAPMEIEDEEAEKPEGWLDDEPEEVDDPEATKPEDWDDEEDGMWEAPKIDNPKCEAAPGCGEWKRPMKRNPAYKGKWSSPLIDNPAYKGIWKPRDIPNPDYFELDRPDYEPIAAIGIEIWTMQDGILFDNILIAKDEKVAETYRQTTWKPKFDVEKEKQKAEEEAAGSADGLKSYQKVVFDLLNKVADLSFLSAYKSKITELIEKAEQQPNLTIGVLVAIVVVFFSLFLKLIFGGKKAAAPVEKKKPEVAESSKSGDEAEKKEETAAPRKRQPRRDN |
| 566 | sp|P54657|CAD1\_DICDI | MSVDANKVKFFFGKNCTGESFEYNKGETVRFNNGDKWNDKFMSCLVGSNVRCNIWEHNEIDTPTPGKFQELAQGSTNNDLTSINGLSKFQVLPGAFQWAVDVKIVNKVNSTAGSYEMTITPYQVDKVACKDGDDFVQLPIPKLTPPDSEIVSHLTVRQTHTPYDYVVNGSVYFKYSPTTGQVTVIKKDETFPKNMTVTQDDNTSFIFNLNSEK |
| 567 | sp|Q06432|CCG1\_HUMAN | MSQTKMLKVRVTLFCILAGIVLAMTAVVTDHWAVLSPHMEHHNTTCEAAHFGLWRICTKRIPMDDSKTCGPITLPGEKNCSYFRHFNPGESSEIFEFTTQKEYSISAAAIAIFSLGFIILGSLCVLLSLGKKRDYLLRPASMFYAFAGLCILVSVEVMRQSVKRMIDSEDTVWIEYYYSWSFACACAAFILLFLGGLALLLFSLPRMPRNPWESCMDAEPEH |
| 568 | sp|P97445|CAC1A\_MOUSE | MARFGDEMPGRYGAGGGGSGPAAGVVVGAAGGRGAGGSRQGGQPGAQRMYKQSMAQRARTMALYNPIPVRQNCLTVNRSLFLFSEDNVVRKYAKKITEWPPFEYMILATIIANCIVLALEQHLPDDDKTPMSERLDDTEPYFIGIFCFEAGIKIVALGFAFHKGSYLRNGWNVMDFVVVLTGILATVGTEFDLRTLRAVRVLRPLKLVSGIPSLQVVLKSIMKAMIPLLQIGLLLFFAILIFAIIGLEFYMGKFHTTCFEEGTDDIQGESPAPCGTEEPARTCPNGTKCQPYWEGPNNGITQFDNILFAVLTVFQCITMEGWTDLLYNSNDASGNTWNWLYFIPLIIIGSFFMLNLVLGVLSGEFAKERERVENRRAFLKLRRQQQIERELNGYMEWISKAEEVILAEDETDVEQRHPFDGALRRATLKKSKTDLLNPEEAEDQLADIASVGSPFARASIKSAKLENSTFFHKKERRMRFYIRRMVKTQAFYWTVLSLVALNTLCVAIVHYNQPEWLSDFLYYAEFIFLGLFMSEMFIKMYGLGTRPYFHSSFNCFDCGVIIGSIFEVIWAVIKPGTSFGISVLRALRLLRIFKVTKYWASLRNLVVSLLNSMKSIISLLFLLFLFIVVFALLGMQLFGGQFNFDEGTPPTNFDTFPAAIMTVFQILTGEDWNEVMYDGIKSQGGVQGGMVFSIYFIVLTLFGNYTLLNVFLAIAVDNLANAQELTKDEQEEEEAANQKLALQKAKEVAEVSPLSAANMSIAVKEQQKNQKPTKSVWEQRTSEMRKQNLLASREALYGDAAERWPTPYARPLRPDVKTHLDRPLVVDPQENRNNNTNKSRAPEALRPTARPRESARDPDARRAWPGSPERAPGREGPYGRESEPQQREHAPPREHAPWDADTERAKAGDAPRRHTHRPVAEGEPRRHRARRRPGDEPDDRPERRPRPRDATRPARAADGEGDDGERKRRHRHGPPAHDDRERRHRRRKENQGSGVPVSGPNLSTTRPIQQDLGRQDLPLAEDLDNMKNNKLATGEPASPHDSLGHSGLPPSPAKIGNSTNPGPALATNPQNAASRRTPNNPGNPSNPGPPKTPENSLIVTNPSSTQPNSAKTARKPEHMAVEIPPACPPLNHTVVQVNKNANPDPLPKKEEEKKEEEEADPGEDGPKPMPPYSSMFILSTTNPLRRLCHYILNLRYFEMCILMVIAMSSIALAAEDPVQPNAPRNNVLRYFDYVFTGVFTFEMVIKMIDLGLVLHQGAYFRDLWNILDFIVVSGALVAFAFTGNSKGKDINTIKSLRVLRVLRPLKTIKRLPKLKAVFDCVVNSLKNVFNILIVYMLFMFIFAVVAVQLFKGKFFHCTDESKEFERDCRGKYLLYEKNEVKARDREWKKYEFHYDNVLWALLTLFTVSTGEGWPQVLKHSVDATFENQGPSPGYRMEMSIFYVVYFVVFPFFFVNIFVALIIITFQEQGDKMMEEYSLEKNERACIDFAISAKPLTRHMPQNKQSFQYRMWQFVVSPPFEYTIMAMIALNTIVLMMKFYGASVAYENALRVFNIVFTSLFSLECVLKVMAFGILNYFRDAWNIFDFVTVLGSITDILVTEFGNNFINLSFLRLFRAARLIKLLRQGYTIRILLWTFVQSFKALPYVCLLIAMLFFIYAIIGMQVFGNIGIDGEDEDSDEDEFQITEHNNFRTFFQALMLLFRSATGEAWHNIMLSCLSGKPCDKNSGILTADCGNEFAYFYFVSFIFLCSFLMLNLFVAVIMDNFEYLTRDSSILGPHHLDEYVRVWAEYDPAACGRIHYKDMYSLLRVISPPLGLGKKCPHRVACKRLLRMDLPVADDNTVHFNSTLMALIRTALDIKIAKGGADKQQMDAELRKEMMAIWPNLSQKTLDLLVTPHKSTDLTVGKIYAAMMIMEYYRQSKAKKLQAMREEQNRTPLMFQRMEPPSPTQEGGPSQNALPSTQLDPGGGLMAHEGGMKESPSWVTQRAQEMFQKTGTWSPERGPPIDMPNSQPNSQSVEMREMGTDGYSDSEHYLPMEGQTRAASMPRLPAENQRRRGRPRGNDLSTISDTSPMKRSASVLGPKARRLDDYSLERVPPEENQRYHQRRRDRGHRTSERSLGRYTDVDTGLGTDLSMTTQSGDLPSKDRDQDRGRPKDRKHRPHHHHHHHHHHPPAPDRDRYAQERPDTGRARAREQRWSRSPSEGREHTTHRQGSSSVSGSPAPSTSGTSTPRRGRRQLPQTPCTPRPLVSYSPAPRRPAARRMAGPAAPPGGSPRGCRRAPRWPAHAPEGPRPRGADYTEPDSPREPPGGAHDPAPRSPRTPRAAGCASPRHGRRLPNGYYAGHGAPRPRTARRGAHDAYSESEDDWC |
| 569 | sp|Q6P9F0|CCD62\_HUMAN | MNPPAAFLAGRQNIGSEVEISTIEKQRKELQLLIGELKDRDKELNDMVAVHQQQLLSWEEDRQKVLTLEERCSKLEGELHKRTEIIRSLTKKVKALESNQMECQTALQKTQLQLQEMAQKATHSSLLSEDLEARNETLSNTLVELSAQVGQLQAREQALTTMIKLKDKDIIEAVNHIADCSGKFKMLEHALRDAKMAETCIVKEKQDYKQKLKALKIEVNKLKEDLNEKTTENNEQREEIIRLKQEKSCLHDELLFTVEREKRKDELLNIAKSKQERTNSELHNLRQIYVKQQSDLQFLNFNVENSQELIQMYDSKMEESKALDSSRDMCLSDLENNHPKVDIKREKNQKSLFKDQKFEAMLVQQNRSDKSSCDECKEKKQQIDTVFGEKSVITLSSIFTKDLVEKHNLPWSLGGKTQIEPENKITLCKIHTKSPKCHGTGVQNEGKQPSETPTLSDEKQWHDVSVYLGLTNCPSSKHPEKLDVECQDQMERSEISCCQKNEACLGESGMCDSKCCHPSNFIIEAPGHMSDVEWMSIFKPSKMQRIVRLKSGCTCSESICGTQHDSPASELIAIQDSHSLGSSKSALREDETESSSNKKNSPTSLLIYKDAPAFNEKASIVLPSQDDFSPTSKLQRLLAESRQMVTDLELSTLLPISHENLTGSATNKSEVPEESAQKNTFVSY |
| 570 | sp|P48758|CBR1\_MOUSE | MSSSRPVALVTGANKGIGFAITRDLCRKFSGDVVLAARDEERGQTAVQKLQAEGLSPRFHQLDIDNPQSIRALRDFLLKEYGGLDVLVNNAGIAFKVNDDTPFHIQAEVTMKTNFFGTRDVCKELLPLIKPQGRVVNVSSMVSLRALKNCRLELQQKFRSETITEEELVGLMNKFVEDTKKGVHAEEGWPNSAYGVTKIGVTVLSRILARKLNEQRRGDKILLNACCPGWVRTDMAGPKATKSPEEGAETPVYLALLPPDAEGPHGQFVQDKKVEPW |
| 571 | sp|Q13185|CBX3\_HUMAN | MASNKTTLQKMGKKQNGKSKKVEEAEPEEFVVEKVLDRRVVNGKVEYFLKWKGFTDADNTWEPEENLDCPELIEAFLNSQKAGKEKDGTKRKSLSDSESDDSKSKKKRDAADKPRGFARGLDPERIIGATDSSGELMFLMKWKDSDEADLVLAKEANMKCPQIVIAFYEERLTWHSCPEDEAQ |
| 572 | sp|P50229|CCL3\_RAT | MKVSTAALAVLLCTMALWNEVFSAPYGADTPTACCFSYGRQIPRKFIADYFETSSLCSQPGVIFLTKRNRQICADPKETWVQEYITELELNA |
| 573 | sp|Q64691|CAN3\_MOUSE | MPTVISPTVAPRTGAEPRSPGPVPHPAQGKTTEAGGGHPSGIYSAIISRNFPIIGVKEKTFEQLRRKCLEKKVLYLDPEFPPDETSLFYSQKFPIQFVWKRPPEICENPRFIIGGANRTDICQGDLGDCWFLAAIACLTLNERLLFRVIPHDQSFTENYAGIFHFQFWRYGDWVDVVIDDCLPTYNNQLVFTKSNHRNEFWSALLEKAYAKLHGSYEALKGGNTTEAMEDFTGGVTEFFEIKDAPSDMYKIMRKAIERGSLMGCSIDDGTNMTYGTSPSGLNMGELIARMVRNMDNSLLRDSDLDPRGSDDRPSRTIVPVQYETRMACGLVKGHAYSVTGLEEALFKGEKVKLVRLRNPWGQVEWNGSWSDGWKDWSFVDKDEKARLQHQVTEDGEFWMSYDDFVYHFTKLEICNLTADALESDKLQTWTVSVNEGRWVRGCSAGGCRNFPDTFWTNPQYRLKLLEEDDDPEDSEVICSFLVALMQKNRRKDRKLGANLFTIGFAIYEVPKEMHGNKQHLQKDFFLYNASKARSKTYINMREVSQRFRLPPSEYVIVPSTYEPHQEGEFILRVFSEKRNLSEEAENTISVDRPVKKKKNKPIIFVSDRANSNKELGVDQEAEEGKDKAGPEKRGETPQPRPGHTDQESEEQQQFRNIFRQIAGDDMEICADELKNVLNTVVNKHKDLKTQGFTLESCRSMIALMDTDGSGRLNLQEFHHLWKKIKAWQKIFKHYDTDHSGTINSYEMRNAVNDAGFHLNSQLYDIITMRYADKHMNIDFDSFICCFVRLEGMFRAFNAFDKDGDGIIKLNVLEWLQLTMYA |
| 574 | sp|P0C1D0|CA1A\_CONRE | SNKRKNAAMLDMIAQHAIRGCCSDPRCRYRCR |
| 575 | sp|Q5AP53|CBK1\_CANAL | MNFDQLTDEQKQQLYLQHLQQQQQLQQQQQQLQQQQHQLQQQQQSYHLQQQQAAYQQQNQAQLQQDDSYMDEDTSELINQPPVQLDHGSPIRQQPQMSAFMPSPRFAQSESFDNHLNVDPNNTERFTSMDSMNFQPPASTFTQLGNGSSTNLSEISSGQNSLLSNHSVNNLPTALTSDTSPPVQQHPQFQPQQQQQQQQPQQQQIFQQQQQQQQQQQQPQQSRAVVNQSVSTEAANSDMTGSNTKYVYFERKPNLLSKTTQDKAASIKLTLENYYTSSVSHAIERNQRRLELENKIANEDIGSSEERKNRQLQNLGKKESQFLRLKRTKLALEDFHTVKVIGKGAFGEVRLVQKKDTGKIYAMKTLLKSEMFNKDQLAHVKAERDVLAGSDSPWIVALYYSFQDSQYLYLIMEFLPGGDLMTMLIRWEVFTEDITRFYIAECVLAIEAIHKLGFIHRDIKPDNILIDNRGHVKLSDFGLSTGFHKTHDSNYYNKLLEKEPSNTHLQPNQLTSGRNSVMVDAIHLTMSNRQTMQTWRKSRRLMAYSTVGTPDYIAPEIFIHQGYGQECDWWSLGAIMFECLIGWPPFCSENPHDTYRKILNWQESFQIPEDVHLSPEAEDLIKRFLTSAENRIGRYGGAEEIKQHPFFRGVDWDSIRDVQAPFVPRLSSMTDTRHFPTDDLASVPDNPAMSKAMEQRELDAKNGGGRKNPKEDLPFIGYTYSRFDYLTRKNAL |
| 576 | sp|A9XMT3|CCLOP\_LOTJA | MEGRGFSGLYRNSSEELFLKTVMESPIGMPVPSMEMLGFKNVSQGFRADSEELFKRWLTNGEGYNSSSIGFSSRLSKRISTELVNGSNQLQVGVASDGRNNDKPFIQNNLLANDVSGDFNFPIRDPVDRELQPSNLFLAKAWFLSDQRMTRSRSSELRRRYSEMQNGLATQGIESICMDPQHGAEATKQEVANFNGYNYLSMCELPSQKGSFMSPSNSCSSNFNTPQFGDMDKVSSCVSMLKGTLQRRRLSSQLEKEAAEDDLNGIFYPQEPLFQTGFDQGQENWSNQTPVNVQVDSIGEVKDHGVLQTLEGSTNPVVDGFANQINQIYVGTASGEPSQSESSNAAPVISSGLDTCEGPINSNQTLCESSWKQVGVSKSSENTQNRVKGFREQIMDNLKDDKKRKSLERYGSITSAVSDDKGDTTKKRRVERSRKMAEAKERNSTPSVPSDMQAVLKRCENLEKEVRSLKLNLSFMNRKDSEQTKQIEDLQKQNEELADEKERLLEEIERILSETEKM |
| 577 | sp|Q922D8|C1TC\_MOUSE | MAPAGILNGKLVSAQIRDRLKNQVTRMQEQVPGFTPGLAILQVGDRDDSNLYINVKLKAAEEIGIKATHIKLPRTSTESEVLKYVISLNEDASVHGFIVQLPLDSENSINTEAVINAIAPEKDVDGLTSVSAGKLARGDLNDCFIPCTPKGCLELIKEAGVQIAGRHAVVVGRSKIVGAPMHDLLLWNNATVTTCHSKTANLDKEVNKGDILVVATGQPEMVKGEWIKPGAVVIDCGINYVPDDTKPNGRKVVGDVAYDEAKERASFITPVPGGVGPMTVAMLMQSTVESAQRFLQKFKPGKWTIQYNKLNLKTPVPSDIAISRSCKPKLIGNLAREIGLLTEEVELYGETKAKVLLSALDRLKHQPDGKYVVVTGITPTPLGEGKSTTTIGLVQALGAHLRQNVFACVRQPSQGPTFGIKGGAAGGGYSQVIPMEEFNLHLTGDIHAITAANNLVAAAIDARIFHELTQTDKALFNRLVPSVNGIRKFSDIQIRRLRRLGIEKTDPTTLTDDEINRFARLDIDPETITWQRVLDTNDRFLRKITIGQSPTEKGHTRTAQFDISVASEIMAVLALTSSLEDMRERLGRMVVASSKKGEPISCEDLGVSGALTVLMKDAIKPNLMQTLEGTPVFVHAGPFANIAHGNSSIIADRIALKLVGPEGFVVTEAGFGADIGMEKFFNIKCRYSGLQPHVVVLVATVRALKMHGGGPTVTAGLPLPKAYTEEDLDLVEKGFSNLRKQIENARMFGVPVVVAVNVFKTDTDAELDLVSRLSREHGAFDAVKCTHWAEGGQGALALAQAVQRASQAPSSFQLLYDLKLSIEDKIRIIAQRIYGADDIELLPEAQNKAEIYTKQGFGNLPICMAKTHLSLSHNPEQKGVPTGFVLPIRDIRASVGAGFLYPLVGTMSTMPGLPTRPCFYDIDLDPETEQVNGLF |
| 578 | sp|Q9LSF8|C82G1\_ARATH | MTFLFSTLQLSLFSLALVIFGYIFLRKQLSRCEVDSSTIPEPLGALPLFGHLHLLRGKKLLCKKLAAMSQKHGPIFSLKLGFYRLVVASDPKTVKDCFTTNDLATATRPNIAFGRYVGYNNASLTLAPYGDYWRELRKIVTVHLFSNHSIEMLGHIRSSEVNTLIKHLYKGNGGTSIVKIDMLFEFLTFNIILRKMVGKRIGFGEVNSDEWRYKEALKHCEYLAVIPMIGDVIPWLGWLDFAKNSQMKRLFKELDSVNTKWLHEHLKKRSRNEKDQERTIMDLLLDILPEDIVISGHVRDVIVKATILALTLTGSDSTSITLTWAVSLLLNNPAALEAAQEEIDNSVGKGRWIEESDIQNLKYLQAIVKETHRLYPPAPLTGIREAREDCFVGGYRVEKGTRLLVNIWKLHRDPKIWPDPKTFKPERFMEDKSQCEKSNFEYIPFGSGRRSCPGVNLGLRVVHFVLARLLQGFELHKVSDEPLDMAEGPGLALPKINPVEVVVMPRLDPKLYSLL |
| 579 | sp|Q7Z3S7|CA2D4\_HUMAN | MVCGCSALLPLPNPRPTMPATPNFLANPSSSSRWIPLQPMPVAWAFVQKTSALLWLLLLGTSLSPAWGQAKIPLETVKLWADTFGGDLYNTVTKYSGSLLLQKKYKDVESSLKIEEVDGLELVRKFSEDMENMLRRKVEAVQNLVEAAEEADLNHEFNESLVFDYYNSVLINERDEKGNFVELGAEFLLESNAHFSNLPVNTSISSVQLPTNVYNKDPDILNGVYMSEALNAVFVENFQRDPTLTWQYFGSATGFFRIYPGIKWTPDENGVITFDCRNRGWYIQAATSPKDIVILVDVSGSMKGLRMTIAKHTITTILDTLGENDFINIIAYNDYVHYIEPCFKGILVQADRDNREHFKLLVEELMVKGVGVVDQALREAFQILKQFQEAKQGSLCNQAIMLISDGAVEDYEPVFEKYNWPDCKVRVFTYLIGREVSFADRMKWIACNNKGYYTQISTLADTQENVMEYLHVLSRPMVINHDHDIIWTEAYMDSKLLSSQAQSLTLLTTVAMPVFSKKNETRSHGILLGVVGSDVALRELMKLAPRYKLGVHGYAFLNTNNGYILSHPDLRPLYREGKKLKPKPNYNSVDLSEVEWEDQAESLRTAMINRETGTLSMDVKVPMDKGKRVLFLTNDYFFTDISDTPFSLGVVLSRGHGEYILLGNTSVEEGLHDLLHPDLALAGDWIYCITDIDPDHRKLSQLEAMIRFLTRKDPDLECDEELVREVLFDAVVTAPMEAYWTALALNMSEESEHVVDMAFLGTRAGLLRSSLFVGSEKVSDRKFLTPEDEASVFTLDRFPLWYRQASEHPAGSFVFNLRWAEGPESAGEPMVVTASTAVAVTVDKRTAIAAAAGVQMKLEFLQRKFWAATRQCSTVDGPCTQSCEDSDLDCFVIDNNGFILISKRSRETGRFLGEVDGAVLTQLLSMGVFSQVTMYDYQAMCKPSSHHHSAAQPLVSPISAFLTATRWLLQELVLFLLEWSVWGSWYDRGAEAKSVFHHSHKHKKQDPLQPCDTEYPVFVYQPAIREANGIVECGPCQKVFVVQQIPNSNLLLLVTDPTCDCSIFPPVLQEATEVKYNASVKCDRMRSQKLRRRPDSCHAFHPEENAQDCGGASDTSASPPLLLLPVCAWGLLPQLLR |
| 580 | sp|P53894|CBK1\_YEAST | MYNSSTNHHEGAPTSGHGYYMSQQQDQQHQQQQQYANEMNPYQQIPRPPAAGFSSNYMKEQGSHQSLQEHLQRETGNLGSGFTDVPALNYPATPPPHNNYAASNQMINTPPPSMGGLYRHNNNSQSMVQNGNGSGNAQLPQLSPGQYSIESEYNQNLNGSSSSSPFHQPQTLRSNGSYSSGLRSVKSFQRLQQEQENVQVQQQLSQAQQQNSRQQQQQLQYQQQQQQQQQQQHMQIQQQQQQQQQQQQSQSPVQSGFNNGTISNYMYFERRPDLLTKGTQDKAAAVKLKIENFYQSSVKYAIERNERRVELETELTSHNWSEERKSRQLSSLGKKESQFLRLRRTRLSLEDFHTVKVIGKGAFGEVRLVQKKDTGKIYAMKTLLKSEMYKKDQLAHVKAERDVLAGSDSPWVVSLYYSFQDAQYLYLIMEFLPGGDLMTMLIRWQLFTEDVTRFYMAECILAIETIHKLGFIHRDIKPDNILIDIRGHIKLSDFGLSTGFHKTHDSNYYKKLLQQDEATNGISKPGTYNANTTDTANKRQTMVVDSISLTMSNRQQIQTWRKSRRLMAYSTVGTPDYIAPEIFLYQGYGQECDWWSLGAIMYECLIGWPPFCSETPQETYRKIMNFEQTLQFPDDIHISYEAEDLIRRLLTHADQRLGRHGGADEIKSHPFFRGVDWNTIRQVEAPYIPKLSSITDTRFFPTDELENVPDSPAMAQAAKQREQMTKQGGSAPVKEDLPFIGYTYSRFDYLTRKNAL |
| 581 | sp|P70403|CASP\_MOUSE | MAANVGSMSQYWKRFDLQQLQRELDAAATVLANRQDESEQSRKRLIEQSREFKKNTPEDLRKQVAPLLKSFQGEIDALSKRSKEAEAAFLTVYKRLIDVPDPVPALDVGQQLEIKVQRLHDIETENQKLRETLEEYNKEFAEVKNQEVTIKALKEKIREYEQTLKSQAETIALEKEQKLQNDFAEKERKLQETQMSTTSKLEEAEHKLQTLQTALEKTRTELFDLKTKYDEETTAKADEIEMIMTDLERANQRAEVAQREAETLREQLSSANHSLQLASQIQKAPDVEQAIEVLTRSSLEVELAAKEREIAQLVEDVQRLQASLTKLRENSASQISQLEQQLNAKNSTLKQLEEKLKGQADYEEVKKELNTLKSMEFAPSEGAGTQDSTKPLEVLLLEKNRSLQSENATLRISNSDLSGRCAELQIHLTEATAKAVEQKELIARLEQDLSTIQSIQRPDAEGASEQGLEKIPEPIKEATALFYGPSMSSSGTLPEGQVDSLLSIISSQRERFRTRNQELEAESRMAQHTIQALQSELDSLRADNIKLFEKIKFLQSYPGRGIGSDDTELRYSSQYEERLDPFSSFSKRERQRKYLGLSPWDKATLGMGRLILSNKTARTIGFFYTLFLHCLVFLVLYKLAWSESVERDCAATCAKKFADHLHKFHESDNGAAAGDLWQ |
| 582 | sp|P51868|CASQ2\_RAT | MKRIYLLVVGLYLLSFSRAEEGLNFPTYDGKDRVVSLSEKNLKQVLKRYDLLCLYYHEPVSSDKVAQKQFQLKEIVLELVAQVLEHKNIGFVMVDSRKEAKLAKRLGFSEEGSLYVLKGGRTIEFDGEFAADVLVEFLLDLIEDPVEIVNNKLEVQAFERIEDQIKLLGFFKNEDSEYYKAFQEAAEHFQPYIKFFATFDKGVAKKLSLKMNEVGFYEPFMDEPSVIPNKPYTEEELVEFVKEHQRPTLRPLRPEDMFETWEDDLNGIHIVAFAEKSDPDGYEFLEILKQVARDNTDNPDLSILWIDPDDFPLLVAYWEKTFKIDLFKPQIGVVNVTDADSVWMEIPDDDDLPTAEELEDWIEDVLSGKINTEDDDNEDEDDDGDNDNDDDDDDDDNSDEDNDDSDDDDDDDE |
| 583 | sp|O04151|CALR1\_ARATH | MAKLNPKFISLILFALVVIVSAEVIFEEKFEDGWEKRWVKSDWKKDDNTAGEWKHTAGNWSGDANDKGIQTSEDYRFYAISAEFPEFSNKDKTLVFQFSVKHEQKLDCGGGYMKLLSDDVDQTKFGGDTPYSIMFGPDICGYSTKKVHAILTYNGTNHLIKKEVPCETDQLTHVYTFVLRPDATYSILIDNVEKQTGSLYSDWDLLPAKKIKDPSAKKPEDWDDKEYIPDPEDTKPAGYDDIPKEIPDTDAKKPEDWDDEEDGEWTAPTIPNPEYNGEWKPKKIKNPAYKGKWKAPMIDNPEFKDDPELYVFPKLKYVGVELWQVKSGSLFDNVLVSDDPEYAKKLAEETWGKHKDAEKAAFDEAEKKREEEESKDAPAESDAEEEAEDDDNEGDDSDNESKSEETKEAEETKEAEETDAAHDEL |
| 584 | sp|P07451|CAH3\_HUMAN | MAKEWGYASHNGPDHWHELFPNAKGENQSPVELHTKDIRHDPSLQPWSVSYDGGSAKTILNNGKTCRVVFDDTYDRSMLRGGPLPGPYRLRQFHLHWGSSDDHGSEHTVDGVKYAAELHLVHWNPKYNTFKEALKQRDGIAVIGIFLKIGHENGEFQIFLDALDKIKTKGKEAPFTKFDPSCLFPACRDYWTYQGSFTTPPCEECIVWLLLKEPMTVSSDQMAKLRSLLSSAENEPPVPLVSNWRPPQPINNRVVRASFK |
| 585 | sp|P27139|CAH2\_RAT | MSHHWGYSKSNGPENWHKEFPIANGDRQSPVDIDTGTAQHDPSLQPLLICYDKVASKSIVNNGHSFNVEFDDSQDFAVLKEGPLSGSYRLIQFHFHWGSSDGQGSEHTVNKKKYAAELHLVHWNTKYGDFGKAVQHPDGLAVLGIFLKIGPASQGLQKITEALHSIKTKGKRAAFANFDPCSLLPGNLDYWTYPGSLTTPPLLECVTWIVLKEPITVSSEQMSHFRKLNFNSEGEAEELMVDNWRPAQPLKNRKIKASFK |
| 586 | sp|Q9SFU6|CALS9\_ARATH | MSRAESSWERLVNAALRRDRTGGVAGGNQSSIVGYVPSSLSNNRDIDAILRAADEIQDEDPNIARILCEHGYSLAQNLDPNSEGRGVLQFKTGLMSVIKQKLAKREVGTIDRSQDILRLQEFYRLYREKNNVDTLKEEEKQLRESGAFTDELERKTVKRKRVFATLKVLGSVLEQLAKEIPEELKHVIDSDAAMSEDTIAYNIIPLDAPVTTNATTTFPEVQAAVAALKYFPGLPKLPPDFPIPATRTADMLDFLHYIFGFQKDSVSNQREHIVLLLANEQSRLNIPEETEPKLDDAAVRKVFLKSLENYIKWCDYLCIQPAWSNLEAINGDKKLLFLSLYFLIWGEAANIRFLPECLCYIFHHMVREMDEILRQQVARPAESCMPVDSRGSDDGVSFLDHVIAPLYGVVSAEAFNNDNGRAPHSAWRNYDDFNEYFWSLHSFELGWPWRTSSSFFQKPIPRKKLKTGRAKHRGKTSFVEHRTFLHLYHSFHRLWIFLAMMFQALAIIAFNKDDLTSRKTLLQILSLGPTFVVMKFSESVLEVIMMYGAYSTTRRLAVSRIFLRFIWFGLASVFISFLYVKSLKAPNSDSPIVQLYLIVIAIYGGVQFFFSILMRIPTCHNIANKCDRWPVIRFFKWMRQERHYVGRGMYERTSDFIKYLLFWLVVLSAKFSFAYFLQIKPLVGPTRMIVKQNNIPYSWHDFVSRKNYNALTVASLWAPVVAIYLLDIHIFYTIFSAFLGFLLGARDRLGEIRSLEAIHKLFEEFPGAFMRALHVPLTNRTSDTSHQTVDKKNKVDAAHFAPFWNQIIKSLREEDYITDFEMELLLMPKNSGRLELVQWPLFLLSSKILLAKEIAAESNSQEEILERIERDDYMKYAVEEVYHTLKLVLTETLEAEGRLWVERIYEDIQTSLKERNIHHDFQLNKLSLVITRVTALLGILKENETPEHAKGAIKALQDLYDVMRLDILTFNMRGHYETWNLLTQAWNEGRLFTKLKWPKDPELKALVKRLYSLFTIKDSAAHVPRNLEARRRLQFFTNSLFMDVPPPKSVRKMLSFSVFTPYYSEVVLYSMAELTKRNEDGISILFYLQKIYPDEWKNFLARIGRDENALEGDLDNERDILELRFWASYRGQTLARTVRGMMYYRKALMLQSYLERKAGNDATDAEGFELSPEARAQADLKFTYVVTCQIYGRQKEDQKPEAVDIALLMQRNEALRIAYIDVVDSPKEGKSHTEYYSKLVKADISGKDKEIYSIKLPGDPKLGEGKPENQNHAIVFTRGNAIQTIDMNQDNYFEEALKMRNLLEEFDRDHGIRPPTILGVREHVFTGSVSSLASFMSNQETSFVTLGQRVLAKPLKIRMHYGHPDVFDRVFHITRGGISKASRVINISEDIFAGFNTTLRQGNVTHHEYIQVGKGRDVGLNQIALFEGKVAGGNGEQVLSRDVYRLGQLLDFFRMMSFFFTTVGFYLCTMLTVLTVYIFLYGRAYLALSGVGATIRERAILLDDTALSAALNAQFLFQIGVFTAVPMVLGFILEQGFLQAIVSFITMQFQLCTVFFTFSLGTRTHYFGRTILHGGARYQATGRGFVVKHIKFSENYRLYSRSHFVKAMEVILLLVVYLAYGNDEAGAVSYILLTVSSWFLAVSWLFAPYLFNPAGFEWQKVVEDFKEWTNWLFYRGGIGVKGAESWEAWWEEELSHIRTLSGRIMETILSLRFFIFQYGIVYKLKLQGSDTSFAVYGWSWVAFAMIIVLFKVFTFSQKISVNFQLLLRFIQGLSLLMALAGIIVAVVLTPLSVTDIFACVLAFIPTGWGILSIACAWKPVLKRMGMWKSIRSLARLYDALMGMLIFLPVALCSWFPFVSTFQTRMMFNQAFSRGLEISLILAGDNPNSGL |
| 587 | sp|E9Q2Z1|CECR2\_MOUSE | MCPEEGGAAGLGELRSWWEVPAIAHFCSLFRTAFRLPDFEIEELEAALHRDDVEFISDLIACLLQGCYQRRDITPQTFHSYLEDIINYRWELEEGKPNPLREASFQDLPLRTRVEILHRLCDYRLDADDVFDLLKGLDADSLRVEPLGEDNSGALYWYFYGTRMYKEDPVQGRSNGELSLCRESERQKNVSNVPGKTGKRRGRPPKRKKLQEEIISSEKQEENSLTSDLQTRNGSRGPGQGTWWLLCQTEEEWRQVTESFRERTSLRERQLYKLLSEDFLPEICNMIAQKGKRPQRTKPELQHRFMSDHLSIKSIKLEETPMLTKIEKQKRREEEEERQLLLAVQKKEQEQMLKEERKREMEEKVKAVEDRAKRRKLREERAWLLAQGKELPPELSHLDLNSPMREGKKTKDLFELDDDFTAMYKVLDVVKAHKDSWPFLEPVDESYAPNYYQIIKIPMDISSMEKKLNGGLYCNKEEFVNDMKTMFRNCRKYNGDSSEYTKMSDNLERCFHRAMTKHFPGEDGDTDEEFWIKEDEKREKRRSRSGRSSGSHVWTRSRDTEGSSRKQPPVENGGKSLPPARRAASSGDDQSRSSIQLPPEVGTSHGQGFSRPLHCGRVPSHAPPLNQMRPAAPGTFGSLQGSDPTNLHGSSRIPEAPPGEPLQHPPFAIQAPVGISNHRGSLLSAPDLSNMGSHVPSLQLGQMNCPSQDGNMYPPAPFQAGFIPSRHGGTPARPPDFPESSEIPPGHIYHSYKYLNRAHPAVWNGNHGTTNPGRLGPDEKPHLGPGPSHHPHTLGHMMDGRVMRQPIPPNQWTKQSSFLPHGVPSSGYMQPPCKSAGHRLQPPPTPAPSPRFRGPSQALRGAQGGESMMDSPEMIAMQQLSSRVCPPGVPYHPRQPTPPQLPGPFPQVAHSASVCVSAPKPALDNPGSTQEMTETHEPEEDPAEPLPGHEEKAASICSSEGVYLKQLPHPAPPLQASCTRQSSPQERETEDSQLKSDASDSADTYKTSKNKNTWPLDNSYSSPAVQGCLRDLSIVAETGNLPENGVVGEASPCRSEGKGLDGSGSEKPLCPRGKTLQEAVPCTGPNATTPPCTDPSLMAATVNQFSPLYMPGIEYSNSATQYPMSPSLQGLASMMGGKSSGSQPQSFPPRGFQANGPHPGLFPRYRPQQGMRYSYQPPSQPSYHPYQRTPYYTCPQGFSDWQRSLPSQRSPSGPPGSHPPRSLFSEKNVLSSLQGCETLNTALTSPTQMDVVTAKVVPPDGHNSGPEEEKMDESVERPESPKEFLDLDNHNAATKRQNSLSTSDYLYGTPPPSLSSGMTFGSSAFPPHSVMLQTGSPYTPQRSASHFQPRAYPSPVPAHPPPHPVATQPNGLSPEDSLYCCQEEGLGHFQASMMEQTGTGSGLRGSFQEVHRPPGLQMHPVQSQSLFPKTPAPAASPEQLPPHKTPTLPLDQS |
| 588 | sp|Q91ZF2|CAT7\_MOUSE | MTPTVFLSILCLGVALAAPAPDYNLDAEWEEWKRSNDRTYSPEEEKQRRAVWEGNVKWIKQHIMENGLWMNNFTIEMNEFGDMTGEEMKMLTESSSYPLRNGKHIQKRNPKIPPTLDWRKEGYVTPVRRQGSCGACWAFSVTACIEGQLFKKTGKLIPLSVQNLMDCSVSYGTKGCDGGRPYDAFQYVKNNGGLEAEATYPYEAKAKHCRYRPERSVVKVNRFFVVPRNEEALLQALVTHGPIAVAIDGSHASFHSYRGGIYHEPKCRKDTLDHGLLLVGYGYEGHESENRKYWLLKNSHGERWGENGYMKLPRGQNNYCGIASYAMYPAL |
| 589 | sp|P97766|CFC1\_MOUSE | MRANSPTQGISLKMHQARPLFLVTVALQLIGLGYSYQSEGDGAREVSNILSPVIPGTTLDRTLSNSSRKNDIPEGARLWDSLPDSSTLGESAVPVSRCCHNGGTCVLGSFCVCPAYFTGRYCEHDQRRRDCGALGHGAWTLHSCRLCRCIFSALYCLPHQTFSHCDLKSFLSSGARGSRECSIPSLLLLVLCLLLQGVAGKG |
| 590 | sp|P00432|CATA\_BOVIN | MADNRDPASDQMKHWKEQRAAQKPDVLTTGGGNPVGDKLNSLTVGPRGPLLVQDVVFTDEMAHFDRERIPERVVHAKGAGAFGYFEVTHDITRYSKAKVFEHIGKRTPIAVRFSTVAGESGSADTVRDPRGFAVKFYTEDGNWDLVGNNTPIFFIRDALLFPSFIHSQKRNPQTHLKDPDMVWDFWSLRPESLHQVSFLFSDRGIPDGHRHMNGYGSHTFKLVNANGEAVYCKFHYKTDQGIKNLSVEDAARLAHEDPDYGLRDLFNAIATGNYPSWTLYIQVMTFSEAEIFPFNPFDLTKVWPHGDYPLIPVGKLVLNRNPVNYFAEVEQLAFDPSNMPPGIEPSPDKMLQGRLFAYPDTHRHRLGPNYLQIPVNCPYRARVANYQRDGPMCMMDNQGGAPNYYPNSFSAPEHQPSALEHRTHFSGDVQRFNSANDDNVTQVRTFYLKVLNEEQRKRLCENIAGHLKDAQLFIQKKAVKNFSDVHPEYGSRIQALLDKYNEEKPKNAVHTYVQHGSHLSAREKANL |
| 591 | sp|P10477|CELE\_HUNT2 | MKKIVSLVCVLVMLVSILGSFSVVAASPVKGFQVSGTKLLDASGNELVMRGMRDISAIDLVKEIKIGWNLGNTLDAPTETAWGNPRTTKAMIEKVREMGFNAVRVPVTWDTHIGPAPDYKIDEAWLNRVEEVVNYVLDCGMYAIINVHHDNTWIIPTYANEQRSKEKLVKVWEQIATRFKDYDDHLLFETMNEPREVGSPMEWMGGTYENRDVINRFNLAVVNTIRASGGNNDKRFILVPTNAATGLDVALNDLVIPNNDSRVIVSIHAYSPYFFAMDVNGTSYWGSDYDKASLTSELDAIYNRFVKNGRAVIIGEFGTIDKNNLSSRVAHAEHYAREAVSRGIAVFWWDNGYYNPGDAETYALLNRKTLSWYYPEIVQALMRGAGVEPLVSPTPTPTLMPTPSPTVTANILYGDVNGDGKINSTDCTMLKRYILRGIEEFPSPSGIIAADVNADLKINSTDLVLMKKYLLRSIDKFPAEDSQTPDEDNPGILYNGRFDFSDPNGPKCAWSGSNVELNFYGTEASVTIKSGGENWFQAIVDGNPLPPFSVNATTSTVKLVSGLAEGAHHLVLWKRTEASLGEVQFLGFDFGSGKLLAAPKPLERKIEFIGDSITCAYGNEGTSKEQSFTPKNENSYMSYAAITARNLNASANMIAWSGIGLTMNYGGAPGPLIMDRYPYTLPYSGVRWDFSKYVPQVVVINLGTNDFSTSFADKTKFVTAYKNLISEVRRNYPDAHIFCCVGPMLWGTGLDLCRSYVTEVVNDCNRSGDLKVYFVEFPQQDGSTGYGEDWHPSIATHQLMAERLTAEIKNKLGW |
| 592 | sp|P09119|CDC6\_YEAST | MSAIPITPTKRIRRNLFDDAPATPPRPLKRKKLQFTDVTPESSPEKLQFGSQSIFLRTKALLQKSSELVNLNSSDGALPARTAEYEQVMNFLAKAISEHRSDSLYITGPPGTGKTAQLDMIIRQKFQSLPLSLSTPRSKDVLRHTNPNLQNLSWFELPDGRLESVAVTSINCISLGEPSSIFQKIFDSFQDLNGPTLQIKNMQHLQKFLEPYHKKTTFVVVLDEMDRLLHANTSETQSVRTILELFLLAKLPTVSFVLIGMANSLDMKDRFLSRLNLDRGLLPQTIVFQPYTAEQMYEIVIQKMSSLPTIIFQPMAIKFAAKKCAGNTGDLRKLFDVLRGSIEIYELEKRFLLSPTRGSLNSAQVPLTPTTSPVKKSYPEPQGKIGLNYIAKVFSKFVNNNSTRTRIAKLNIQQKLILCTIIQSLKLNSDATIDESFDHYIKAITKTDTLAPLQRNEFLEICTILETCGLVSIKKTKCKGKTKRFVDKIDVDLDMREFYDEMTKISILKPFLH |
| 593 | sp|P32797|CDC13\_YEAST | MDTLEEPECPPHKNRIFVSSSKDFEGYPSKAIVPVQFVALLTSIHLTETKCLLGFSNFERRGDQSQEDQYLIKLKFKDRGSERLARITISLLCQYFDIELPDLDSDSGASPTVILRDIHLERLCFSSCKALYVSKHGNYTLFLEDIKPLDLVSVISTISTKSTNSSKHSSSELISECDLNNSLVDIFNNLIEMNRDEKNRFKFVKLIHYDIELKKFVQDQQKVLSQKSKAAAINPFFVPNRLGIPYIESQNEFNSQLMTLNVDEPTTDISNMGEEMHDSADPIEDSDSSTTSSTGKYFSSKSYIQSQTPERKTSVPNNWHDDDSGSKRKRKLSFHSPNASSIRKAISYEQLSLASVGSVERLEGKIVGMNPPQFASINEFKYCTLKLYFTQLLPNVPDKVLVPGVNCIEIVIPTRERICELFGVLNCQSDKISDILLLEKPDRISVEVERILWDNDKTASPGMAVWSLKNISTDTQAQAQVQVPAQSSASIDPSRTRMSKMARKDPTIEFCQLGLDTFETKYITMFGMLVSCSFDKPAFISFVFSDFTKNDIVQNYLYDRYLIDYENKLELNEGFKAIMYKNQFETFDSKLRKIFNNGLRDLQNGRDENLSQYGIVCKMNIKVKMYNGKLNAIVRECEPVPHSQISSIASPSQCEHLRLFYQRAFKRIGESAISRYFEEYRRFFPIHRNGSHLAKLRFDEVKHEPKKSPTTPALAEHIPDLNADVSSFDVKFTDISSLLDSSARLPRPQQTHKSNTLYSCEGRIIAIEYHASDLCFHITNELPLLQTRGLAPERVLQLHIITSKNFAYFFNRSSAYLQRQPLEEKYTQLAQFLGHSFKFNITSSLTLFPDTTVALQIWCPIECTFRELQQQLAHPKVAAAPDSGSLDCAINATVNPLRLLAAQNGVTVKKEEDNDDDAGAVPTS |
| 594 | sp|Q9NYQ6|CELR1\_HUMAN | MAPPPPPVLPVLLLLAAAAALPAMGLRAAAWEPRVPGGTRAFALRPGCTYAVGAACTPRAPRELLDVGRDGRLAGRRRVSGAGRPLPLQVRLVARSAPTALSRRLRARTHLPGCGARARLCGTGARLCGALCFPVPGGCAAAQHSALAAPTTLPACRCPPRPRPRCPGRPICLPPGGSVRLRLLCALRRAAGAVRVGLALEAATAGTPSASPSPSPPLPPNLPEARAGPARRARRGTSGRGSLKFPMPNYQVALFENEPAGTLILQLHAHYTIEGEEERVSYYMEGLFDERSRGYFRIDSATGAVSTDSVLDRETKETHVLRVKAVDYSTPPRSATTYITVLVKDTNDHSPVFEQSEYRERVRENLEVGYEVLTIRASDRDSPINANLRYRVLGGAWDVFQLNESSGVVSTRAVLDREEAAEYQLLVEANDQGRNPGPLSATATVYIEVEDENDNYPQFSEQNYVVQVPEDVGLNTAVLRVQATDRDQGQNAAIHYSILSGNVAGQFYLHSLSGILDVINPLDFEDVQKYSLSIKAQDGGRPPLINSSGVVSVQVLDVNDNEPIFVSSPFQATVLENVPLGYPVVHIQAVDADSGENARLHYRLVDTASTFLGGGSAGPKNPAPTPDFPFQIHNSSGWITVCAELDREEVEHYSFGVEAVDHGSPPMSSSTSVSITVLDVNDNDPVFTQPTYELRLNEDAAVGSSVLTLQARDRDANSVITYQLTGGNTRNRFALSSQRGGGLITLALPLDYKQEQQYVLAVTASDGTRSHTAHVLINVTDANTHRPVFQSSHYTVSVSEDRPVGTSIATLSANDEDTGENARITYVIQDPVPQFRIDPDSGTMYTMMELDYENQVAYTLTIMAQDNGIPQKSDTTTLEILILDANDNAPQFLWDFYQGSIFEDAPPSTSILQVSATDRDSGPNGRLLYTFQGGDDGDGDFYIEPTSGVIRTQRRLDRENVAVYNLWALAVDRGSPTPLSASVEIQVTILDINDNAPMFEKDELELFVEENNPVGSVVAKIRANDPDEGPNAQIMYQIVEGDMRHFFQLDLLNGDLRAMVELDFEVRREYVLVVQATSAPLVSRATVHILLVDQNDNPPVLPDFQILFNNYVTNKSNSFPTGVIGCIPAHDPDVSDSLNYTFVQGNELRLLLLDPATGELQLSRDLDNNRPLEALMEVSVSDGIHSVTAFCTLRVTIITDDMLTNSITVRLENMSQEKFLSPLLALFVEGVAAVLSTTKDDVFVFNVQNDTDVSSNILNVTFSALLPGGVRGQFFPSEDLQEQIYLNRTLLTTISTQRVLPFDDNICLREPCENYMKCVSVLRFDSSAPFLSSTTVLFRPIHPINGLRCRCPPGFTGDYCETEIDLCYSDPCGANGRCRSREGGYTCECFEDFTGEHCEVDARSGRCANGVCKNGGTCVNLLIGGFHCVCPPGEYERPYCEVTTRSFPPQSFVTFRGLRQRFHFTISLTFATQERNGLLLYNGRFNEKHDFIALEIVDEQVQLTFSAGETTTTVAPKVPSGVSDGRWHSVQVQYYNKPNIGHLGLPHGPSGEKMAVVTVDDCDTTMAVRFGKDIGNYSCAAQGTQTGSKKSLDLTGPLLLGGVPNLPEDFPVHNRQFVGCMRNLSVDGKNVDMAGFIANNGTREGCAARRNFCDGRRCQNGGTCVNRWNMYLCECPLRFGGKNCEQAMPHPQLFSGESVVSWSDLNIIISVPWYLGLMFRTRKEDSVLMEATSGGPTSFRLQILNNYLQFEVSHGPSDVESVMLSGLRVTDGEWHHLLIELKNVKEDSEMKHLVTMTLDYGMDQNKADIGGMLPGLTVRSVVVGGASEDKVSVRRGFRGCMQGVRMGGTPTNVATLNMNNALKVRVKDGCDVDDPCTSSPCPPNSRCHDAWEDYSCVCDKGYLGINCVDACHLNPCENMGACVRSPGSPQGYVCECGPSHYGPYCENKLDLPCPRGWWGNPVCGPCHCAVSKGFDPDCNKTNGQCQCKENYYKLLAQDTCLPCDCFPHGSHSRTCDMATGQCACKPGVIGRQCNRCDNPFAEVTTLGCEVIYNGCPKAFEAGIWWPQTKFGQPAAVPCPKGSVGNAVRHCSGEKGWLPPELFNCTTISFVDLRAMNEKLSRNETQVDGARALQLVRALRSATQHTGTLFGNDVRTAYQLLGHVLQHESWQQGFDLAATQDADFHEDVIHSGSALLAPATRAAWEQIQRSEGGTAQLLRRLEGYFSNVARNVRRTYLRPFVIVTANMILAVDIFDKFNFTGARVPRFDTIHEEFPRELESSVSFPADFFRPPEEKEGPLLRPAGRRTTPQTTRPGPGTEREAPISRRRRHPDDAGQFAVALVIIYRTLGQLLPERYDPDRRSLRLPHRPIINTPMVSTLVYSEGAPLPRPLERPVLVEFALLEVEERTKPVCVFWNHSLAVGGTGGWSARGCELLSRNRTHVACQCSHTASFAVLMDISRRENGEVLPLKIVTYAAVSLSLAALLVAFVLLSLVRMLRSNLHSIHKHLAVALFLSQLVFVIGINQTENPFLCTVVAILLHYIYMSTFAWTLVESLHVYRMLTEVRNIDTGPMRFYYVVGWGIPAIVTGLAVGLDPQGYGNPDFCWLSLQDTLIWSFAGPIGAVIIINTVTSVLSAKVSCQRKHHYYGKKGIVSLLRTAFLLLLLISATWLLGLLAVNRDALSFHYLFAIFSGLQGPFVLLFHCVLNQEVRKHLKGVLGGRKLHLEDSATTRATLLTRSLNCNTTFGDGPDMLRTDLGESTASLDSIVRDEGIQKLGVSSGLVRGSHGEPDASLMPRSCKDPPGHDSDSDSELSLDEQSSSYASSHSSDSEDDGVGAEEKWDPARGAVHSTPKGDAVANHVPAGWPDQSLAESDSEDPSGKPRLKVETKVSVELHREEQGSHRGEYPPDQESGGAARLASSQPPEQRKGILKNKVTYPPPLTLTEQTLKGRLREKLADCEQSPTSSRTSSLGSGGPDCAITVKSPGREPGRDHLNGVAMNVRTGSAQADGSDSEKP |
| 595 | sp|Q9Z0H0|CDC7\_MOUSE | MEEPMAFSSLRGSDRCPADDSLKKYEQSVKLSGIKRDIEELCEAVPQLVNVFKIKDKIGEGTFSSVYLATAQLQEGHEEKIALKHLIPTSHPMRIAAELQCLTVAGGQDNVMGLKYCFRKNDHVVIAMPYLEHESFLDILNSLSFQEVREYMYNLFVALKRIHQFGIVHRDVKPSNFLYNRRLKKYALVDFGLAQGTRDTKIELLKFVQSEAQQEDCSRNKYHGVVGHKGLLSRPAPKTVDQQCTPKTSVKRSYTQVHIKQGKDGKERSVGLSVQRSVFGERNFNIHSSISHESPAEKLIKQSKTVDIISRKLATKKTAISTKAMNSVMRETARSCPAVLTCDCYGSDRVCSVCLSRRQQVAPRAGTPGFRAPEVLTKCPDQTTAIDMWSAGVIFLSLLSGRYPFYKASDDLTALAQIMTIRGSRETIQAAKAFGKSVLCSKEVPAQDLRALCERLRGLDSTTPRSASGPPGNASYDPAASKNTDHKASRVQAAQAQHSEDSLYKRDNDGYWSHPKDCTSNSEGWDSVPDEAYDLLDKLLDLNPASRITAEAALLHAFFKDMCS |
| 596 | sp|P21854|CD72\_HUMAN | MAEAITYADLRFVKAPLKKSISSRLGQDPGADDDGEITYENVQVPAVLGVPSSLASSVLGDKAAVKSEQPTASWRAVTSPAVGRILPCRTTCLRYLLLGLLLTCLLLGVTAICLGVRYLQVSQQLQQTNRVLEVTNSSLRQQLRLKITQLGQSAEDLQGSRRELAQSQEALQVEQRAHQAAEGQLQACQADRQKTKETLQSEEQQRRALEQKLSNMENRLKPFFTCGSADTCCPSGWIMHQKSCFYISLTSKNWQESQKQCETLSSKLATFSEIYPQSHSYYFLNSLLPNGGSGNSYWTGLSSNKDWKLTDDTQRTRTYAQSSKCNKVHKTWSWWTLESESCRSSLPYICEMTAFRFPD |
| 597 | sp|G5EDK5|CELR\_CAEEL | MMLDRIMFLLFFILSLVIGSFSEYLDDKYYSTNSIDVVCKPCAVPSSNSVIWLPASRPPCLHPGQPIIHWPDLSDNLACPVPGLPDSVHSSQISLLEGEGLLLTKERICFFDGPIDFHYDYVCDGKLYRSKMRIGHSIASKKKLETRRTKRWARRRNPDANAVHFQQEKYVKELPEDTPIETIIASVKASHASSQPLYYSMVAPQDSRSQNLFTLDTMSGEIRLAKSMDREVLDKHILKVTAYERVDPTISASTTVVVHVLDVQDNSPIFEKDSYFGEIREDAPIGTTVLSVFARDLDSGENGEIEYSLGEGNGKNLLAINAKSGVIQTAAPLDRETLSLIRLDVIASDKGTPKRESTAMVEITVVDVNDNAPVFASDSYNVTILENITIPAVIATVKATDEDFGTNGKVHYSMASSSGIGGLTIDYSTGEVTLRERIDAKNSPITAVIRAKDGAQPALSSTVPLTINVIDINDHAPTLIAAQKMITLEENVAIGEEVGRVYAIDEDSGPNGIIKYSMEGSEDFIIDEDSGLIKTTKLLDRETTARYSLKVTARDMGTPSLNTSTTIAVVLKDINDNAPTFDKKEYNVTISEEMPRGSQIITLKAVDNDEDQKITYRIEEADREVFSILDIGDQGAILSVSGELKRQDHKVRVEISATDQGGLQGRCVVNVFIDDVNSAPYFNDHPFSVKIPEHSPIGYPVITLKAEDHDRGDNARIVYSIDSSQFFRIDPSSGDISVSSDLDREDRATFSVIVTASDHASPPLNTSTQIEVILDDINDNSPQFTSSSYAATISEDIPVGTSFLQVSAIDADIGPNGIVDYFLNESSSSPSIQLFRLDRTSGTLRVSSKLDREQFAVIVLPIFARDRGTPSLSAASEITLTLSDVNDNAPTFEQLSYDLYIAENSPVGSTVGTIVARDADEGDNADISFRIFGGADAKLFDIEEDAEQNGVVRILTRAEFDYEAKANKFFFELQASSGQLSSTVPVRIHVSDVNDNKPALKDFVILMNRFDNVQMARQIGFIPAFDPDQNATLEYFLEENDLIEAEKYTGKILVKQEWKRNMDVSFKTCVSDGANTECSTCRFIHVLVEPEWLSESFTLSLARMTVDDFWDPLVFQRFRDAMSTLSNWKPSDIHVIGVKQHLDDVIYINIAITDHGRVVRGWRAIELVKESIKKLEKMTLLQVEVIRDESCANEPCSHMAKCRQTQKFVGEMKAHETDNFIARTLNTVNTFVCECPSGFTSSGAHGDCDTRIDECYRGRCSNNSTCVAFENTYQCECKPGWIGRHCEISVHALTCVPGYCMSDSLCELDGNQMKCRHCKYHGEDTDERCRLRSVSFDGEGLLNVNLDLPRTQWTMKFRVSTIAHNGVLVFTGDKRSDFVEVSVVDRVLKVQFSLGGEKIDAKMENDVENRINDGEWHTVALEYSNKQITMSLDDCETNPSLLLNTSPNCAIRAKLNLEKKCEDPTVPCYRYLDISNGLFLGGRPGTSKQIEKAFSGCISDLSVDKEDVDFSTIKEMHKVGQVHEGCKHRKDFCSTSDGQCSATSKCVNRWGGRICSCPQSVHSTGECVGALGTQDLRGHSLFEEESFVLYQPSQVSVPFEVSFEFRTSRADMQVFALEFTQRSVHYNLEVDDGTLKYNIGDSEVELPAPEVTSKHWMNVVIKFEADSVATSINGIYSAEAKASISDMNLESLYFGIAPGTGHPSRFEGCIRNVLVDGRSISVKKKGKTRAGCVVPNRCSVDSICPAESTCHRAWNKHKCKCHKSFVGDTCLPVCSVANVCSSGTCVSSNTTAGYECICPAGKTGKNCQLEAPKQMCPSGWWGTFPRCRRCSCAQTKDYEAQCDKKTGACQCKKSHFSTINGCVKCECGFGADSTECSADGHCKCNGDAVGRRCDRCSRFDHQLDSKTLKCRPVSGKCPSEIEYSIQWPASQKGSIVRQSCPVGESGLATRKCLETGRWSDVNAWNCTRPEYSIMVNKFEILEPSKLLTMVANATNTESSIRGRNQQIAAEALSRLVDYEQSMPMKGRAHIKDMKFTEKLIESLGRVMSEQPADEYSTLISKLWNYAETVAEIHENVNFLSPFFVANDHIVFASDKLDFGNILPKFNNFVDLRPTGFPRVRAIVTGTTQVVYSIVPYPRCNRCENPMIAIVANTSDPVIVEFEIEEDDGWKYPECVRFDEKSGTWTARGAALIGLNLTHAACEYNRIGVFTMFVNDQSSSIVRVAQMDNMTSPAIAGVALFLCFLSILLTLSRRSLKTHSVRIGFILFFAINILNLFFVHKTAINQAYCPVRNAMLSFTSSAPFAWLFLYGLYIYRMLADGSSSPSLTTSLLVGIVFPCLISFTTFFVTDQCSLSPHLWLFWCIILPIGLFLLLSFYAAATSVLVSLHKKYDVFVAKYNVKRAVFQHFILTIFTLGMTLTGLFANQLPLPMEIMEISQSIIYLIAALVIFLWCVCDITTKASDSNPSMWLDNQKSVMAESTMADPQCASPLLSPRHQHHEVPMDSEWVPDVNPSNHYHTSINEPDTPRRLLLPQNRDVINILSSPDQILNEGVGHVYRNNMGSLPRLRSAQDEADDAYYTYTASRKYKNTTSTFNRE |
| 598 | sp|Q9Z0H4|CELF2\_MOUSE | MRCPKSAVTMRNEELLLSNGTANKMNGALDHSDQPDPDAIKMFVGQIPRSWSEKELKELFEPYGAVYQINVLRDRSQNPPQSKGCCFVTFYTRKAALEAQNALHNIKTLPGMHHPIQMKPADSEKSNAVEDRKLFIGMVSKKCNENDIRVMFSPFGQIEECRILRGPDGLSRGCAFVTFSTRAMAQNAIKAMHQSQTMEGCSSPIVVKFADTQKDKEQRRLQQQLAQQMQQLNTATWGNLTGLGGLTPQYLALLQQATSSSNLGAFSGIQQMAGMNALQLQNLATLAAAAAAAQTSATSTNANPLSSTSSALGALTSPVAASTPNSTAGAAMNSLTSLGTLQGLAGATVGLNNINALAGMAALNGGLGATGLTNGTAGTMDALTQAYSGIQQYAAAALPTLYSQSLLQQQSAAGSQKEGPEGANLFIYHLPQEFGDQDILQMFMPFGNVISAKVFIDKQTNLSKCFGFVSYDNPVSAQAAIQAMNGFQIGMKRLKVQLKRSKNDSKPY |
| 599 | sp|Q9UFW8|CGBP1\_HUMAN | MERFVVTAPPARNRSKTALYVTPLDRVTEFGGELHEDGGKLFCTSCNVVLNHVRKSAISDHLKSKTHTKRKAEFEEQNVRKKQRPLTASLQCNSTAQTEKVSVIQDFVKMCLEANIPLEKADHPAVRAFLSRHVKNGGSIPKSDQLRRAYLPDGYENENQLLNSQDC |
| 600 | sp|O55229|CHKB\_MOUSE | MAADGTGVVGGGAVGGGLPKDGLQDAKCPEPIPNRRRASSLSRDAQRRAYQWCREYLGGAWRRARPEELSVCPVSGGLSNLLFRCSLPNHVPSVGGEPREVLLRLYGAILQGVDSLVLESVMFAILAERSLGPQLYGVFPEGRLEQYLPSRPLKTQELRDPVLSGAIATRMARFHGMEMPFTKEPRWLFGTMERYLKQIQDLPSTSLPQMNLVEMYSLKDEMNSLRKLLDDTPSPVVFCHNDIQEGNILLLSEPDSDDNLMLVDFEYSSYNYRGFDIGNHFCEWVYDYTYEEWPFYKARPTDYPTREQQLHFIRHYLAEVQKGEILSEEEQKKREEELLLEISRYSLASHFFWGLWSTLQASMSTIEFGYLEYAQSRFQFYFQQKGQLTSSPSS |
| 601 | sp|Q38868|CDPK9\_ARATH | MGNCFAKNHGLMKPQQNGNTTRSVEVGVTNQDPPSYTPQARTTQQPEKPGSVNSQPPPWRAAAAAPGLSPKTTTKSNSILENAFEDVKLFYTLGKELGRGQFGVTYLCTENSTGKKYACKSISKKKLVTKADKDDMRREIQIMQHLSGQPNIVEFKGAYEDEKAVNLVMELCAGGELFDRIIAKGHYTERAAASVCRQIVNVVKICHFMGVLHRDLKPENFLLSSKDEKALIKATDFGLSVFIEEGKVYRDIVGSAYYVAPEVLRRRYGKEVDIWSAGIILYILLSGVPPFWAETEKGIFDAILEGHIDFESQPWPSISSSAKDLVRRMLTADPKRRISAADVLQHPWLREGGEASDKPIDSAVLSRMKQFRAMNKLKKLALKVIAENIDTEEIQGLKAMFANIDTDNSGTITYEELKEGLAKLGSKLTEAEVKQLMDAADVDGNGSIDYIEFITATMHRHRLESNENLYKAFQHFDKDSSGYITIDELESALKEYGMGDDATIKEVLSDVDSDNDGRINYEEFCAMMRSGNPQQQQPRLF |
| 602 | sp|O65896|CDA1\_ARATH | MDKPSFVIQSKEAESAAKQLGVSVIQLLPSLVKPAQSYARTPISKFNVAVVGLGSSGRIFLGVNVEFPNLPLHHSIHAEQFLVTNLTLNGERHLNFFAVSAAPCGHCRQFLQEIRDAPEIKILITDPNNSADSDSAADSDGFLRLGSFLPHRFGPDDLLGKDHPLLLESHDNHLKISDLDSICNGNTDSSADLKQTALAAANRSYAPYSLCPSGVSLVDCDGKVYRGWYMESAAYNPSMGPVQAALVDYVANGGGGGYERIVGAVLVEKEDAVVRQEHTARLLLETISPKCEFKVFHCYEA |
| 603 | sp|Q6ZTQ4|CDHR3\_HUMAN | MQEAIILLALLGAMSGGEALHLILLPATGNVAENSPPGTSVHKFSVKLSASLSPVIPGFPQIVNSNPLTEAFRVNWLSGTYFEVVTTGMEQLDFETGPNIFDLQIYVKDEVGVTDLQVLTVQVTDVNEPPQFQGNLAEGLHLYIVERANPGFIYQVEAFDPEDTSRNIPLSYFLISPPKSFRMSANGTLFSTTELDFEAGHRSFHLIVEVRDSGGLKASTELQVNIVNLNDEVPRFTSPTRVYTVLEELSPGTIVANITAEDPDDEGFPSHLLYSITTVSKYFMINQLTGTIQVAQRIDRDAGELRQNPTISLEVLVKDRPYGGQENRIQITFIVEDVNDNPATCQKFTFSIMVPERTAKGTLLLDLNKFCFDDDSEAPNNRFNFTMPSGVGSGSRFLQDPAGSGKIVLIGDLDYENPSNLAAGNKYTVIIQVQDVAPPYYKNNVYVYILTSPENEFPLIFDRPSYVFDVSERRPARTRVGQVRATDKDLPQSSLLYSISTGGASLQYPNVFWINPKTGELQLVTKVDCETTPIYILRIQATNNEDTSSVTVTVNILEENDEKPICTPNSYFLALPVDLKVGTNIQNFKLTCTDLDSSPRSFRYSIGPGNVNNHFTFSPNAGSNVTRLLLTSRFDYAGGFDKIWDYKLLVYVTDDNLMSDRKKAEALVETGTVTLSIKVIPHPTTIITTTPRPRVTYQVLRKNVYSPSAWYVPFVITLGSILLLGLLVYLVVLLAKAIHRHCPCKTGKNKEPLTKKGETKTAERDVVVETIQMNTIFDGEAIDPVTGETYEFNSKTGARKWKDPLTQMPKWKESSHQGAAPRRVTAGEGMGSLRSANWEEDELSGKAWAEDAGLGSRNEGGKLGNPKNRNPAFMNRAYPKPHPGK |
| 604 | sp|P63039|CH60\_RAT | MLRLPTVLRQMRPVSRALAPHLTRAYAKDVKFGADARALMLQGVDLLADAVAVTMGPKGRTVIIEQSWGSPKVTKDGVTVAKSIDLKDKYKNIGAKLVQDVANNTNEEAGDGTTTATVLARSIAKEGFEKISKGANPVEIRRGVMLAVDAVIAELKKQSKPVTTPEEIAQVATISANGDKDIGNIISDAMKKVGRKGVITVKDGKTLNDELEIIEGMKFDRGYISPYFINTSKGQKCEFQDAYVLLSEKKISSVQSIVPALEIANAHRKPLVIIAEDVDGEALSTLVLNRLKVGLQVVAVKAPGFGDNRKNQLKDMAIATGGAVFGEEGLNLNLEDVQAHDLGKVGEVIVTKDDAMLLKGKGDKAHIEKRIQEITEQLDITTSEYEKEKLNERLAKLSDGVAVLKVGGTSDVEVNEKKDRVTDALNATRAAVEEGIVLGGGCALLRCIPALDSLKPANEDQKIGIEIIKRALKIPAMTIAKNAGVEGSLIVEKILQSSSEVGYDAMLGDFVNMVEKGIIDPTKVVRTALLDAAGVASLLTTAEAVVTEIPKEEKDPGMGAMGGMGGGMGGGMF |
| 605 | sp|P32657|CHD1\_YEAST | MAAKDISTEVLQNPELYGLRRSHRAAAHQQNYFNDSDDEDDEDNIKQSRRKRMTTIEDDEDEFEDEEGEEDSGEDEDEEDFEEDDDYYGSPIKQNRSKPKSRTKSKSKSKPKSQSEKQSTVKIPTRFSNRQNKTVNYNIDYSDDDLLESEDDYGSEEALSEENVHEASANPQPEDFHGIDIVINHRLKTSLEEGKVLEKTVPDLNNCKENYEFLIKWTDESHLHNTWETYESIGQVRGLKRLDNYCKQFIIEDQQVRLDPYVTAEDIEIMDMERERRLDEFEEFHVPERIIDSQRASLEDGTSQLQYLVKWRRLNYDEATWENATDIVKLAPEQVKHFQNRENSKILPQYSSNYTSQRPRFEKLSVQPPFIKGGELRDFQLTGINWMAFLWSKGDNGILADEMGLGKTVQTVAFISWLIFARRQNGPHIIVVPLSTMPAWLDTFEKWAPDLNCICYMGNQKSRDTIREYEFYTNPRAKGKKTMKFNVLLTTYEYILKDRAELGSIKWQFMAVDEAHRLKNAESSLYESLNSFKVANRMLITGTPLQNNIKELAALVNFLMPGRFTIDQEIDFENQDEEQEEYIHDLHRRIQPFILRRLKKDVEKSLPSKTERILRVELSDVQTEYYKNILTKNYSALTAGAKGGHFSLLNIMNELKKASNHPYLFDNAEERVLQKFGDGKMTRENVLRGLIMSSGKMVLLDQLLTRLKKDGHRVLIFSQMVRMLDILGDYLSIKGINFQRLDGTVPSAQRRISIDHFNSPDSNDFVFLLSTRAGGLGINLMTADTVVIFDSDWNPQADLQAMARAHRIGQKNHVMVYRLVSKDTVEEEVLERARKKMILEYAIISLGVTDGNKYTKKNEPNAGELSAILKFGAGNMFTATDNQKKLEDLNLDDVLNHAEDHVTTPDLGESHLGGEEFLKQFEVTDYKADIDWDDIIPEEELKKLQDEEQKRKDEEYVKEQLEMMNRRDNALKKIKNSVNGDGTAANSDSDDDSTSRSSRRRARANDMDSIGESEVRALYKAILKFGNLKEILDELIADGTLPVKSFEKYGETYDEMMEAAKDCVHEEEKNRKEILEKLEKHATAYRAKLKSGEIKAENQPKDNPLTRLSLKKREKKAVLFNFKGVKSLNAESLLSRVEDLKYLKNLINSNYKDDPLKFSLGNNTPKPVQNWSSNWTKEEDEKLLIGVFKYGYGSWTQIRDDPFLGITDKIFLNEVHNPVAKKSASSSDTTPTPSKKGKGITGSSKKVPGAIHLGRRVDYLLSFLRGGLNTKSPSADIGSKKLPTGPSKKRQRKPANHSKSMTPEITSSEPANGPPSKRMKALPKGPAALINNTRLSPNSPTPPLKSKVSRDNGTRQSSNPSSGSAHEKEYDSMDEEDCRHTMSAIRTSLKRLRRGGKSLDRKEWAKILKTELTTIGNHIESQKGSSRKASPEKYRKHLWSYSANFWPADVKSTKLMAMYDKITESQKK |
| 606 | sp|P11433|CDC24\_YEAST | MAIQTRFASGTSLSDLKPKPSATSISIPMQNVMNKPVTEQDSLFHICANIRKRLEVLPQLKPFLQLAYQSSEVLSERQSLLLSQKQHQELLKSNGANRDSSDLAPTLRSSSISTATSLMSMEGISYTNSNPSATPNMEDTLLTFSMGILPITMDCDPVTQLSQLFQQGAPLCILFNSVKPQFKLPVIASDDLKVCKKSIYDFILGCKKHFAFNDEELFTISDVFANSTSQLVKVLEVVETLMNSSPTIFPSKSKTQQIMNAENQHRHQPQQSSKKHNEYVKIIKEFVATERKYVHDLEILDKYRQQLLDSNLITSEELYMLFPNLGDAIDFQRRFLISLEINALVEPSKQRIGALFMHSKHFFKLYEPWSIGQNAAIEFLSSTLHKMRVDESQRFIINNKLELQSFLYKPVQRLCRYPLLVKELLAESSDDNNTKELEAALDISKNIARSINENQRRTENHQVVKKLYGRVVNWKGYRISKFGELLYFDKVFISTTNSSSEPEREFEVYLFEKIIILFSEVVTKKSASSLILKKKSSTSASISASNITDNNGSPHHSYHKRHSNSSSSNNIHLSSSSAAAIIHSSTNSSDNNSNNSSSSSLFKLSANEPKLDLRGRIMIMNLNQIIPQNNRSLNITWESIKEQGNFLLKFKNEETRDNWSSCLQQLIHDLKNEQFKARHHSSTSTTSSTAKSSSMMSPTTTMNTPNHHNSRQTHDSMASFSSSHMKRVSDVLPKRRTTSSSFESEIKSISENFKNSIPESSILFRISYNNNSNNTSSSEIFTLLVEKVWNFDDLIMAINSKISNTHNNNISPITKIKYQDEDGDFVVLGSDEDWNVAKEMLAENNEKFLNIRLY |
| 607 | sp|Q5EAB2|CDK9\_BOVIN | MAKQYDSVECPFCDEVTKYEKLAKIGQGTFGEVFKAKHRKTGQKVALKKVLMENEKEGFPITALREIKILQLLKHENVVNLIEICRTKASPYNRCKGSIYLVFDFCEHDLAGLLSNVLVKFTLSEIKRVMQMLLNGLYYIHRNKILHRDMKAANVLITRDGVLKLADFGLARAFSLAKNSQPNRYTNRVVTLWYRPPELLLGERDYGPPIDLWGAGCIMAEMWTRSPIMQGNTEQHQLALISQLCGSITPEVWPNVDKYELFEKVELVKGQKRKVKDRLKAYVRDPYALDLIDKLLVLDPAQRIDSDDALNHDFFWSDPMPSDLKGMLSTHLTSMFEYLAPPRRKGSQITQQSTNQSRNPATTNQTEFERVF |
| 608 | sp|Q38871|CDPK5\_ARATH | MGNSCRGSFKDKLDEGDNNKPEDYSKTSTTNLSSNSDHSPNAADIIAQEFSKDNNSNNNSKDPALVIPLREPIMRRNPDNQAYYVLGHKTPNIRDIYTLSRKLGQGQFGTTYLCTEIASGVDYACKSISKRKLISKEDVEDVRREIQIMHHLAGHGSIVTIKGAYEDSLYVHIVMELCAGGELFDRIIQRGHYSERKAAELTKIIVGVVEACHSLGVMHRDLKPENFLLVNKDDDFSLKAIDFGLSVFFKPGQIFTDVVGSPYYVAPEVLLKRYGPEADVWTAGVILYILLSGVPPFWAETQQGIFDAVLKGYIDFESDPWPVISDSAKDLIRRMLSSKPAERLTAHEVLRHPWICENGVAPDRALDPAVLSRLKQFSAMNKLKKMALKVIAESLSEEEIAGLREMFQAMDTDNSGAITFDELKAGLRKYGSTLKDTEIHDLMDAADVDNSGTIDYSEFIAATIHLNKLEREEHLVAAFQYFDKDGSGFITIDELQQACVEHGMADVFLEDIIKEVDQNNDGKIDYGEFVEMMQKGNAGVGRRTMRNSLNISMRDA |
| 609 | sp|Q9VP22|CDK12\_DROME | MHASSAAATALVEYSDVSSEDFSDQEAGDLDADAGKGAGNIKKPKPAPDNQFSKGRLDAKPDKEGYDNYRSRRAEDSSDPVAAGSRQTSSSEATNPREEPSQASNTSKDELWGREIYMSSDSIDTDELEAEMKRQKRKKQKKEKHKHKSKKKSKKRKKKRAKSYSSIDSMSDNDINALLDRRYTPPTAPSKSNERTVSAAPSSFTPHNLKESSSPATPPPVRRPNTNSNYYGESSLETANSALGSNLQVTVTNKQSISNRLRSPPPSSRSSGNGPRFGNSPRTPPPSHYSSSGGGGVGSGSVVRDSRSSRYVNSPHKEDVSAHHRSSHDHGYQGRYSGAGSSSHDTRKVKRLSPELDRYNHQPSTPPHKRRKFSDGREVGLGNFEHSRHHSGKYERYSRDRYSRRSSRSPSVQHSRSRQSPSGGLSSGSNAFRHGGSHKHKYGTTVSSTPSHTTRTSKRASGTGTSGDRYSRSPRTSSRYMESSPPSPVGASGSHHYHHRRSPRMRQRTRGDSRRRSPSSASSESSASRSRSPTSRDLKHKREEYIKKISETSLFAELVKDRHKRQKALKEIIERQEENSNSNSNGALTINDNSSSVDGNTPNAADGRSAPGSGTPAAASTTSNGLQALGSKPDLDLNNIPMPNKQNDSVVSNPASNADVPDSVAQLKQPLLVPPFSASKNNIKPKSLTSLPLPPGMNVLDLAGARSPSPGQKKESDEKNVTSSGSANKSVLNLPMPPVIPGSEELSGDDDVIDSPEDFDAPAVGTVHGHGGGPGTTRQRPVILNRRDSRNNVRDWGERCVDVFEMIAQIGEGTYGQVYKARDHHTNDMVALKKVRLEHEKEGFPITAVREIKILRQLNHRNIVNLHEIVTDKQDAVEFRKDKGSFYLVFEYMDHDLMGLLESGMVDFNEENNASIMKQLLDGLNYCHKKNFLHRDIKCSNILMNNRGKVKLADFGLARLYNADDRERPYTNKVITLWYRPPELLLGEERYGPSIDVWSCGCILGELFVKRPLFQANAEMAQLETISKICGSPVPAVWPNVIKLPLFHTLKQKKTHRRRLREDFEFMPAPALDLLDKMLDLDPDKRITAEDALRSPWLRKINPDEMPTPQLPTWQDCHELWSKKRRRQMREQQESLPPTVIASTKYQQHGATMVGDA |
| 610 | sp|O76039|CDKL5\_HUMAN | MKIPNIGNVMNKFEILGVVGEGAYGVVLKCRHKETHEIVAIKKFKDSEENEEVKETTLRELKMLRTLKQENIVELKEAFRRRGKLYLVFEYVEKNMLELLEEMPNGVPPEKVKSYIYQLIKAIHWCHKNDIVHRDIKPENLLISHNDVLKLCDFGFARNLSEGNNANYTEYVATRWYRSPELLLGAPYGKSVDMWSVGCILGELSDGQPLFPGESEIDQLFTIQKVLGPLPSEQMKLFYSNPRFHGLRFPAVNHPQSLERRYLGILNSVLLDLMKNLLKLDPADRYLTEQCLNHPTFQTQRLLDRSPSRSAKRKPYHVESSTLSNRNQAGKSTALQSHHRSNSKDIQNLSVGLPRADEGLPANESFLNGNLAGASLSPLHTKTYQASSQPGSTSKDLTNNNIPHLLSPKEAKSKTEFDFNIDPKPSEGPGTKYLKSNSRSQQNRHSFMESSQSKAGTLQPNEKQSRHSYIDTIPQSSRSPSYRTKAKSHGALSDSKSVSNLSEARAQIAEPSTSRYFPSSCLDLNSPTSPTPTRHSDTRTLLSPSGRNNRNEGTLDSRRTTTRHSKTMEELKLPEHMDSSHSHSLSAPHESFSYGLGYTSPFSSQQRPHRHSMYVTRDKVRAKGLDGSLSIGQGMAARANSLQLLSPQPGEQLPPEMTVARSSVKETSREGTSSFHTRQKSEGGVYHDPHSDDGTAPKENRHLYNDPVPRRVGSFYRVPSPRPDNSFHENNVSTRVSSLPSESSSGTNHSKRQPAFDPWKSPENISHSEQLKEKEKQGFFRSMKKKKKKSQTVPNSDSPDLLTLQKSIHSASTPSSRPKEWRPEKISDLQTQSQPLKSLRKLLHLSSASNHPASSDPRFQPLTAQQTKNSFSEIRIHPLSQASGGSSNIRQEPAPKGRPALQLPDGGCDGRRQRHHSGPQDRRFMLRTTEQQGEYFCCGDPKKPHTPCVPNRALHRPISSPAPYPVLQVRGTSMCPTLQVRGTDAFSCPTQQSGFSFFVRHVMREALIHRAQVNQAALLTYHENAALTGK |
| 611 | sp|Q4KMG0|CDON\_HUMAN | MHPDLGPLCTLLYVTLTILCSSVSSDLAPYFTSEPLSAVQKLGGPVVLHCSAQPVTTRISWLHNGKTLDGNLEHVKIHQGTLTILSLNSSLLGYYQCLANNSIGAIVSGPATVSVAVLGDFGSSTKHVITAEEKSAGFIGCRVPESNPKAEVRYKIRGKWLEHSTENYLILPSGNLQILNVSLEDKGSYKCAAYNPVTHQLKVEPIGRKLLVSRPSSDDVHILHPTHSQALAVLSRSPVTLECVVSGVPAPQVYWLKDGQDIAPGSNWRRLYSHLATDSVDPADSGNYSCMAGNKSGDVKYVTYMVNVLEHASISKGLQDQIVSLGATVHFTCDVHGNPAPNCTWFHNAQPIHPSARHLTAGNGLKISGVTVEDVGMYQCVADNGIGFMHSTGRLEIENDGGFKPVIITAPVSAKVADGDFVTLSCNASGLPVPVIRWYDSHGLITSHPSQVLRSKSRKSQLSRPEGLNLEPVYFVLSQAGASSLHIQAVTQEHAGKYICEAANEHGTTQAEASLMVVPFETNTKAETVTLPDAAQNDDRSKRDGSETGLLSSFPVKVHPSAVESAPEKNASGISVPDAPIILSPPQTHTPDTYNLVWRAGKDGGLPINAYFVKYRKLDDGVGMLGSWHTVRVPGSENELHLAELEPSSLYEVLMVARSAAGEGQPAMLTFRTSKEKTASSKNTQASSPPVGIPKYPVVSEAANNNFGVVLTDSSRHSGVPEAPDRPTISTASETSVYVTWIPRANGGSPITAFKVEYKRMRTSNWLVAAEDIPPSKLSVEVRSLEPGSTYKFRVIAINHYGESFRSSASRPYQVVGFPNRFSSRPITGPHIAYTEAVSDTQIMLKWTYIPSSNNNTPIQGFYIYYRPTDSDNDSDYKRDVVEGSKQWHMIGHLQPETSYDIKMQCFNEGGESEFSNVMICETKVKRVPGASEYPVKDLSTPPNSLGSGGNVGPATSPARSSDMLYLIVGCVLGVMVLILMVFIAMCLWKNRQQNTIQKYDPPGYLYQGSDMNGQMVDYTTLSGASQINGNVHGGFLTNGGLSSGYSHLHHKVPNAVNGIVNGSLNGGLYSGHSNSLTRTHVDFEHPHHLVNGGGMYTAVPQIDPLECVNCRNCRNNNRCFTKTNSTFSSSPPPVVPVVAPYPQDGLEMKPLSHVKVPVCLTSAVPDCGQLPEESVKDNVEPVPTQRTCCQDIVNDVSSDGSEDPAEFSRGQEGMINLRIPDHLQLAKSCVWEGDSCAHSETEINIVSWNALILPPVPEGCAEKTMWSPPGIPLDSPTEVLQQPRET |
| 612 | sp|P30277|CCNB1\_RAT | MALRVTRNTKINTENKAKVSMAGAKRVPVAVAASKPLLRSRTALGDIGNKVSEQSRIPLKKETKKLGSGTVTVKALPKPVDKVPVCEPEVELDEPEPEPVMEVKHSPEPILVDTPSPSPMETSGCAPAEEYLCQAFSDVILAVSDVDADDGGDPNLCSEYVKDIYAYLRQLEEEQSVRPKYLLGREVTGNMRAILIDWLIQVQMKFRLLQETMYMTVSIIDRFMQDSCVPKKMLQLVGVTAMFIASKYEEMYPPEIGDFAFVTNNTYTKHQIRQMEMKILRVLNFSLGRPLPLHFLRRASKIGEVDVEQHTLAKYLMELSMLDYDMVHFAPSQIAAGAFCLALKILDNGEWTPTLQHYLSHTEESLLPVMQHLAKNIVMVNRGLTKHMTIKNKYATSKHAKISTLAQLNCTLVQNLSKAVTKA |
| 613 | sp|Q9UK58|CCNL1\_HUMAN | MASGPHSTATAAAAASSAAPSAGGSSSGTTTTTTTTTGGILIGDRLYSEVSLTIDHSLIPEERLSPTPSMQDGLDLPSETDLRILGCELIQAAGILLRLPQVAMATGQVLFHRFFYSKSFVKHSFEIVAMACINLASKIEEAPRRIRDVINVFHHLRQLRGKRTPSPLILDQNYINTKNQVIKAERRVLKELGFCVHVKHPHKIIVMYLQVLECERNQTLVQTAWNYMNDSLRTNVFVRFQPETIACACIYLAARALQIPLPTRPHWFLLFGTTEEEIQEICIETLRLYTRKKPNYELLEKEVEKRKVALQEAKLKAKGLNPDGTPALSTLGGFSPASKPSSPREVKAEEKSPISINVKTVKKEPEDRQQASKSPYNGVRKDSKRSRNSRSASRSRSRTRSRSRSHTPRRHYNNRRSRSGTYSSRSRSRSRSHSESPRRHHNHGSPHLKAKHTRDDLKSSNRHGHKRKKSRSRSQSKSRDHSDAAKKHRHERGHHRDRRERSRSFERSHKSKHHGGSRSGHGRHRR |
| 614 | sp|P39949|CCNE1\_RAT | MPRERKERDSKDHTKMKEEGGSDLSVRSRKRKPNVPVFLQDPDEEIAKIDKTVKSQDSSQPWDDDSACVDPCSFIPTPNKEEDNELEYPKTAFQPRKIRPPRASPLPVLNWANREEVWRIMLNKEKTYLRDEHFLQRHPLLQARMRAVLLDWLMEVCEVYKLHRETFYLAQDFFDRYMASQQNIIKTLLQLIGISALFIASKLEEIYPPKLHQFAYVTDGACSGDEILTMELMMMKALKWRLSPLTIVSWLNVYVQVAYVNDTGEVLMPQYPQQVFVQIAELLDLCVLDVGCLEFPYGVLAASALYHFSSLELMQKVSGYQWCDIEKCVKWMVPFAMVIREMGSSKLKHFRGVPMEDSHNIQTHTNSLDLLDKAQAKKAILSEQNRISPPPSGVLTPPHSSKKQSSEQETE |
| 615 | sp|Q9SWW6|CESA7\_ARATH | MEASAGLVAGSHNRNELVVIHNHEEPKPLKNLDGQFCEICGDQIGLTVEGDLFVACNECGFPACRPCYEYERREGTQNCPQCKTRYKRLRGSPRVEGDEDEEDIDDIEYEFNIEHEQDKHKHSAEAMLYGKMSYGRGPEDDENGRFPPVIAGGHSGEFPVGGGYGNGEHGLHKRVHPYPSSEAGSEGGWRERMDDWKLQHGNLGPEPDDDPEMGLIDEARQPLSRKVPIASSKINPYRMVIVARLVILAVFLRYRLLNPVHDALGLWLTSVICEIWFAVSWILDQFPKWFPIERETYLDRLSLRYEREGEPNMLAPVDVFVSTVDPLKEPPLVTSNTVLSILAMDYPVEKISCYVSDDGASMLTFESLSETAEFARKWVPFCKKFSIEPRAPEMYFTLKVDYLQDKVHPTFVKERRAMKREYEEFKVRINAQVAKASKVPLEGWIMQDGTPWPGNNTKDHPGMIQVFLGHSGGFDVEGHELPRLVYVSREKRPGFQHHKKAGAMNALVRVAGVLTNAPFMLNLDCDHYVNNSKAVREAMCFLMDPQIGKKVCYVQFPQRFDGIDTNDRYANRNTVFFDINMKGLDGIQGPVYVGTGCVFKRQALYGYEPPKGPKRPKMISCGCCPCFGRRRKNKKFSKNDMNGDVAALGGAEGDKEHLMSEMNFEKTFGQSSIFVTSTLMEEGGVPPSSSPAVLLKEAIHVISCGYEDKTEWGTELGWIYGSITEDILTGFKMHCRGWRSIYCMPKRPAFKGSAPINLSDRLNQVLRWALGSVEIFFSRHSPLWYGYKGGKLKWLERFAYANTTIYPFTSIPLLAYCILPAICLLTDKFIMPPISTFASLFFISLFMSIIVTGILELRWSGVSIEEWWRNEQFWVIGGISAHLFAVVQGLLKILAGIDTNFTVTSKATDDDDFGELYAFKWTTLLIPPTTVLIINIVGVVAGISDAINNGYQSWGPLFGKLFFSFWVIVHLYPFLKGLMGRQNRTPTIVVIWSVLLASIFSLLWVRIDPFVLKTKGPDTSKCGINC |
| 616 | sp|Q8C156|CND2\_MOUSE | MRIPRSETMNSSFLKARGQQDVLSSPLERVPPASRPGKAPLGTPKTPVLEDFPQNDDEKERMQRRRSRVFDLQFSTDSIHLASPNRNIDVSTTISKFTNTQITEHYSTCIKLSSENKITTKNAFGLHLIDFMSEILKQKDAEPTNFKVAAGTLDASTKIYAVRVDAVHADVYRVLGGLGKDTPPQGEESHSGDGSTLETERTKKPAKPKKKQSCKTIEQNLSNINVSEADGKCAVDPMFQKTAASFDECSTTGVFLSTLHCQDYRSELLFPSDMQTLSSGEPLELPDLGFVDMTDLEASLQQCVEDRPLCPSLAGFQFTKWDSETHNESVSALVDKFKKNDQVFDINAEAEDDEEDVPDGPLVEDFVDNDEPDLSAAGDHEEFRSWKELCQVQSNQEEVISLEDRDIQVMCSFLSMKPGEYSYFSPRTMKMWAGPDHWRFRPRPKQDATSCTEHKKKSAKKDFEINFDDDIDFDAYFQKTKAATILTKSTLENQNWKATTLPTDFHYETDNLIQLHLKPGKRSLKMDQDQKAKTEHYEEIEDYDYNNPNDTSNYCPGLQAADSDYEEADDLFADPVGTLDLESDPKTTQENGHISPENQGVDITTYQELNLVAEPQKVNKIEIHYAKTAKKMDMKKLKQSMWSLLTKFSRKEADTEANHTESGQEGAPEEVADEKKLSGLTKDLQTRLPPLMAQNLSIPLAFACLLHLANEKNLKLEGTEDLSDVLVMQGD |
| 617 | sp|O48946|CESA1\_ARATH | MEASAGLVAGSYRRNELVRIRHESDGGTKPLKNMNGQICQICGDDVGLAETGDVFVACNECAFPVCRPCYEYERKDGTQCCPQCKTRFRRHRGSPRVEGDEDEDDVDDIENEFNYAQGANKARHQRHGEEFSSSSRHESQPIPLLTHGHTVSGEIRTPDTQSVRTTSGPLGPSDRNAISSPYIDPRQPVPVRIVDPSKDLNSYGLGNVDWKERVEGWKLKQEKNMLQMTGKYHEGKGGEIEGTGSNGEELQMADDTRLPMSRVVPIPSSRLTPYRVVIILRLIILCFFLQYRTTHPVKNAYPLWLTSVICEIWFAFSWLLDQFPKWYPINRETYLDRLAIRYDRDGEPSQLVPVDVFVSTVDPLKEPPLVTANTVLSILSVDYPVDKVACYVSDDGSAMLTFESLSETAEFAKKWVPFCKKFNIEPRAPEFYFAQKIDYLKDKIQPSFVKERRAMKREYEEFKVRINALVAKAQKIPEEGWTMQDGTPWPGNNTRDHPGMIQVFLGHSGGLDTDGNELPRLIYVSREKRPGFQHHKKAGAMNALIRVSAVLTNGAYLLNVDCDHYFNNSKAIKEAMCFMMDPAIGKKCCYVQFPQRFDGIDLHDRYANRNIVFFDINMKGLDGIQGPVYVGTGCCFNRQALYGYDPVLTEEDLEPNIIVKSCCGSRKKGKSSKKYNYEKRRGINRSDSNAPLFNMEDIDEGFEGYDDERSILMSQRSVEKRFGQSPVFIAATFMEQGGIPPTTNPATLLKEAIHVISCGYEDKTEWGKEIGWIYGSVTEDILTGFKMHARGWISIYCNPPRPAFKGSAPINLSDRLNQVLRWALGSIEILLSRHCPIWYGYHGRLRLLERIAYINTIVYPITSIPLIAYCILPAFCLITDRFIIPEISNYASIWFILLFISIAVTGILELRWSGVSIEDWWRNEQFWVIGGTSAHLFAVFQGLLKVLAGIDTNFTVTSKATDEDGDFAELYIFKWTALLIPPTTVLLVNLIGIVAGVSYAVNSGYQSWGPLFGKLFFALWVIAHLYPFLKGLLGRQNRTPTIVIVWSVLLASIFSLLWVRINPFVDANPNANNFNGKGGVF |
| 618 | sp|Q9NSA3|CNBP1\_HUMAN | MNREGAPGKSPEEMYIQQKVRVLLMLRKMGSNLTASEEEFLRTYAGVVNSQLSQLPPHSIDQGAEDVVMAFSRSETEDRRQ |
| 619 | sp|Q9H9A5|CNO10\_HUMAN | MAADKPADQGAEKHEGTGQSSGITDQEKELSTNAFQAFTSGNYDACLQHLACLQDINKDDYKIILNTAVAEFFKSNQTTTDNLRQTLNQLKNQVHSAVEEMDGLDDVENSMLYYNQAVILYHLRQYTEAISVGEKLYQFIEPFEEKFAQAVCFLLVDLYILTYQAEKALHLLAVLEKMISQGNNNKNGKNETGNNNNKDGSNHKAESGALIEAAKSKIHQYKVRAYIQMKSLKACKREIKSVMNTAGNSAPSLFLKSNFEYLRGNYRKAVKLLNSSNIAEHPGFMKTGECLRCMFWNNLGCIHFAMSKHNLGIFYFKKALQENDNVCAQLSAGSTDPGKKFSGRPMCTLLTNKRYELLYNCGIQLLHIGRPLAAFECLIEAVQVYHANPRLWLRLAECCIAANKGTSEQETKGLPSKKGIVQSIVGQGYHRKIVLASQSIQNTVYNDGQSSAIPVASMEFAAICLRNALLLLPEEQQDPKQENGAKNSNQLGGNTESSESSETCSSKSHDGDKFIPAPPSSPLRKQELENLKCSILACSAYVALALGDNLMALNHADKLLQQPKLSGSLKFLGHLYAAEALISLDRISDAITHLNPENVTDVSLGISSNEQDQGSDKGENEAMESSGKRAPQCYPSSVNSARTVMLFNLGSAYCLRSEYDKARKCLHQAASMIHPKEVPPEAILLAVYLELQNGNTQLALQIIKRNQLLPAVKTHSEVRKKPVFQPVHPIQPIQMPAFTTVQRK |
| 620 | sp|P09496|CLCA\_HUMAN | MAELDPFGAPAGAPGGPALGNGVAGAGEEDPAAAFLAQQESEIAGIENDEAFAILDGGAPGPQPHGEPPGGPDAVDGVMNGEYYQESNGPTDSYAAISQVDRLQSEPESIRKWREEQMERLEALDANSRKQEAEWKEKAIKELEEWYARQDEQLQKTKANNRVADEAFYKQPFADVIGYVTNINHPCYSLEQAAEEAFVNDIDESSPGTEWERVARLCDFNPKSSKQAKDVSRMRSVLISLKQAPLVH |
| 621 | sp|Q25077|CNP\_HELLU | MQHQIRALLLFLLSGSACAMFYPRPKDYPRLGKRSFFTTVNGNHYPRIGRRDATGSSLVLPEADYTDLGDLTKRGVFTQGAHGSYPRVGRGGAVLSRDYLNERSKNLEKMSGDKDDDLEVDNGDGSRRLQAGHSGIPLEILFIAYDSDNDGKLSKEEFVTGLAQYQMQCPLY |
| 622 | sp|Q8N6F1|CLD19\_HUMAN | MANSGLQLLGYFLALGGWVGIIASTALPQWKQSSYAGDAIITAVGLYEGLWMSCASQSTGQVQCKLYDSLLALDGHIQSARALMVVAVLLGFVAMVLSVVGMKCTRVGDSNPIAKGRVAIAGGALFILAGLCTLTAVSWYATLVTQEFFNPSTPVNARYEFGPALFVGWASAGLAVLGGSFLCCTCPEPERPNSSPQPYRPGPSAAAREPVVKLPASAKGPLGV |
| 623 | sp|O81223|CNBL4\_ARATH | MGCSVSKKKKKNAMRPPGYEDPELLASVTPFTVEEVEALYELFKKLSSSIIDDGLIHKEEFQLALFRNRNRRNLFADRIFDVFDVKRNGVIEFGEFVRSLGVFHPSAPVHEKVKFAFKLYDLRQTGFIEREELKEMVVALLHESELVLSEDMIEVMVDKAFVQADRKNDGKIDIDEWKDFVSLNPSLIKNMTLPYLKDINRTFPSFVSSCEEEEMELQNVSS |
| 624 | sp|Q9UDT6|CLIP2\_HUMAN | MQKPSGLKPPGRGGKHSSPMGRTSTGSASSSAAVAASSKEGSPLHKQSSGPSSSPAAAAAPEKPGPKAAEVGDDFLGDFVVGERVWVNGVKPGVVQYLGETQFAPGQWAGVVLDDPVGKNDGAVGGVRYFECPALQGIFTRPSKLTRQPTAEGSGSDAHSVESLTAQNLSLHSGTATPPLTSRVIPLRESVLNSSVKTGNESGSNLSDSGSVKRGEKDLRLGDRVLVGGTKTGVVRYVGETDFAKGEWCGVELDEPLGKNDGAVAGTRYFQCPPKFGLFAPIHKVIRIGFPSTSPAKAKKTKRMAMGVSALTHSPSSSSISSVSSVASSVGGRPSRSGLLTETSSRYARKISGTTALQEALKEKQQHIEQLLAERDLERAEVAKATSHICEVEKEIALLKAQHEQYVAEAEEKLQRARLLVESVRKEKVDLSNQLEEERRKVEDLQFRVEEESITKGDLETQTQLEHARIGELEQSLLLEKAQAERLLRELADNRLTTVAEKSRVLQLEEELTLRRGEIEELQQCLLHSGPPPPDHPDAAEILRLRERLLSASKEHQRESGVLRDKYEKALKAYQAEVDKLRAANEKYAQEVAGLKDKVQQATSENMGLMDNWKSKLDSLASDHQKSLEDLKATLNSGPGAQQKEIGELKAVMEGIKMEHQLELGNLQAKHDLETAMHVKEKEALREKLQEAQEELAGLQRHWRAQLEVQASQHRLELQEAQDQRRDAELRVHELEKLDVEYRGQAQAIEFLKEQISLAEKKMLDYERLQRAEAQGKQEVESLREKLLVAENRLQAVEALCSSQHTHMIESNDISEETIRTKETVEGLQDKLNKRDKEVTALTSQTEMLRAQVSALESKCKSGEKKVDALLKEKRRLEAELETVSRKTHDASGQLVLISQELLRKERSLNELRVLLLEANRHSPGPERDLSREVHKAEWRIKEQKLKDDIRGLREKLTGLDKEKSLSDQRRYSLIDRSSAPELLRLQHQLMSTEDALRDALDQAQQVEKLMEAMRSCPDKAQTIGNSGSANGIHQQDKAQKQEDKH |
| 625 | sp|Q75J39|CKI4\_ORYSJ | MDIVPVVALCCCLVLLPSWAYGLGSMASIAVSYGEDGPVFCGLNSDGSHLVTCFGADASVVYGAPSRIPFVGVTAGDGFACGLLLDTNQPYCWGSNSYVKIGVPQPMVEGAMYSELSAGDNHLCALRTSVKGFHSVNGDTSVIDCWGYNMTATHTVTGAVSAISAGSVFNCGLFARNRTVFCWGDESVSGVIGLAPRNVRFQSIGAGGYHVCGVLENAQVFCWGRSLEMQQMSTPSSTDDGDVNIVPMDAMVSVVGGRFHACGIRSLDHQVACWGFTLQNSTLAPKGLRVYAIVAGDYFTCGVPAETSLKPMCWGHSGPLALPMAVSPGICVSDSCSHGYYEYANHGEVGSGSKTCKPANSRLCLPCSVGCPDDSYESSPCNATADRVCQFDCSKCASDECVSFCLSQKRTKNRKFMAFQLRIFVAEIAFAVILVFSVTAIACLYVRYKLRHCQCSKNELRLAKNTTYSFRKDNMKIQPDVEDLKIRRAQEFSYEELEQATGGFSEDSQVGKGSFSCVFKGILRDGTVVAVKRAIKASDVKKSSKEFHTELDLLSRLNHAHLLNLLGYCEDGSERLLVYEFMAHGSLYQHLHGKDPNLKKRLNWARRVTIAVQAARGIEYLHGYACPPVIHRDIKSSNILIDEDHNARVADFGLSILGPADSGTPLSELPAGTLGYLDPEYYRLHYLTTKSDVYSFGVVLLEILSGRKAIDMQFEEGNIVEWAVPLIKAGDISALLDPVLSPPSDLEALKKIAAVACKCVRMRAKDRPSMDKVTTALERALALLMGSPCIEQPILPTEVVLGSSRMHKKVSQRSSNHSCSENDLVDGDDQRIEYRAPSWITFPSVTSSQRRKSSASEADMDGRTTTDGRNVGSSIGDGLRSLEEEISPASPQENLYLQHNF |
| 626 | sp|P0DML3|CSH2\_HUMAN | MAAGSRTSLLLAFALLCLPWLQEAGAVQTVPLSRLFDHAMLQAHRAHQLAIDTYQEFEETYIPKDQKYSFLHDSQTSFCFSDSIPTPSNMEETQQKSNLELLRISLLLIESWLEPVRFLRSMFANNLVYDTSDSDDYHLLKDLEEGIQTLMGRLEDGSRRTGQILKQTYSKFDTNSHNHDALLKNYGLLYCFRKDMDKVETFLRMVQCRSVEGSCGF |
| 627 | sp|Q60737|CSK21\_MOUSE | MSGPVPSRARVYTDVNTHRPREYWDYESHVVEWGNQDDYQLVRKLGRGKYSEVFEAINITNNEKVVVKILKPVKKKKIKREIKILENLRGGPNIITLADIVKDPVSRTPALVFEHVNNTDFKQLYQTLTDYDIRFYMYEILKALDYCHSMGIMHRDVKPHNVMIDHEHRKLRLIDWGLAEFYHPGQEYNVRVASRYFKGPELLVDYQMYDYSLDMWSLGCMLASMIFRKEPFFHGHDNYDQLVRIAKVLGTEDLYDYIDKYNIELDPRFNDILGRHSRKRWERFVHSENQHLVSPEALDFLDKLLRYDHQSRLTAREAMEHPYFYTVVKDQARMSSTSMAGGSTPVSSANMMSGISSVPTPSPLGPLAGSPVIAAANSLGIPVPAAAGAQQ |
| 628 | sp|P13369|CSF1R\_FELCA | MGPRALLVLLVATAWHAQGVPVIQPSGPELVVEPGTTVTLRCVGNGSVEWDGPISPHWNLDLDPPSSILTTNNATFQNTGTYHCTEPGNPQGGNATIHLYVKDPARPWKVLAQEVTVLEGQDALLPCLLTDPALEAGVSLVRVRGRPVLRQTNYSFSPWHGFTIHKAKFIENHVYQCSARVDGRTVTSMGIWLKVQKDISGPATLTLEPAELVRIQGEAAQIVCSASNIDVNFDVSLRHGDTKLTISQQSDFHDNRYQKVLTLNLDHVSFQDAGNYSCTATNAWGNHSASMVFRVVESAYLNLTSEQSLLQEVTVGEKVDLQVKVEAYPGLESFNWTYLGPFSDYQDKLDFVTIKDTYRYTSTLSLPRLKRSEAGRYSFLARNAGGQNALTFELTLRYPPEVRVTMTLINGSDTLLCEASGYPQPSVTWVQCRSHTDRCDESAGLVLEDSHSEVLSQVPFHEVIVHSLLAIGTLEHNRTYECRAFNSVGNSSQTFWPISIGAHTQLPDELLFTPVLLTCMSIMALLLLLLLLLLYKYKQKPKYQVRWKIIESYEGNSYTFIDPTQLPYNEKWEFPRNNLQFGKTLGAGAFGKVVEATAFGLGKEDAVLKVAVKMLKSTAHADEKEALMSELKIMSHLGQHENIVNLLGACTHGGPVLVITEYCCYGDLLNFLRRQAEAMLGPSLSVGQDPEAGAGYKNIHLEKKYVRRDSDFSSQGVDTYVEMRPVSTSSSNDSFSEEDLGKEDGRPLELRDLLHFSSQVAQGMAFLASKNCIHRDVAARNVLLTSGRVAKIGDFGLARDIMNDSNYIVKGNARLPVKWMAPESIFDCVYTVQSDVWSYGILLWEIFSLGLNPYPGILVNSKFYKLVKDGYQMAQPAFAPKNIYSIMQACWALEPTRRPTFQQICSLLQKQAQEDRRVPNYTNLPSSSSSSSSSSSSCRTGSGGGSSSEPEEESSSEHLACCEQGDIAQPLLQPNNYQFC |
| 629 | sp|Q9C942|CSE\_ARATH | MPSEAESSANSAPATPPPPPNFWGTMPEEEYYTSQGVRNSKSYFETPNGKLFTQSFLPLDGEIKGTVYMSHGYGSDTSWMFQKICMSFSSWGYAVFAADLLGHGRSDGIRCYMGDMEKVAATSLAFFKHVRCSDPYKDLPAFLFGESMGGLVTLLMYFQSEPETWTGLMFSAPLFVIPEDMKPSKAHLFAYGLLFGLADTWAAMPDNKMVGKAIKDPEKLKIIASNPQRYTGKPRVGTMRELLRKTQYVQENFGKVTIPVFTAHGTADGVTCPTSSKLLYEKASSADKTLKIYEGMYHSLIQGEPDENAEIVLKDMREWIDEKVKKYGSKTA |
| 630 | sp|P48376|COQ7\_CAEEL | MFRVITRGAHTAASRQALIEKIIRVDHAGELGADRIYAGQLAVLQGSSVGSVIKKMWDEEKEHLDTMERLAAKHNVPHTVFSPVFSVAAYALGVGSALLGKEGAMACTIAVEELIGQHYNDQLKELLADDPETHKELLKILTRLRDEELHHHDTGVEHDGMKAPAYSALKWIIQTGCKGAIAIAEKI |
| 631 | sp|P48199|CRP\_RAT | MEKLLWCLLITISFSQAFGHEDMSKQAFVFPGVSATAYVSLEAESKKPLEAFTVCLYAHADVSRSFSIFSYATKTSFNEILLFWTRGQGFSIAVGGPEILFSASEIPEVPTHICATWESATGIVELWLDGKPRVRKSLQKGYIVGTNASIILGQEQDSYGGGFDANQSLVGDIGDVNMWDFVLSPEQINAVYVGRVFSPNVLNWRALKYETHGDVFIKPQLWPLTDCCES |
| 632 | sp|P78560|CRADD\_HUMAN | MEARDKQVLRSLRLELGAEVLVEGLVLQYLYQEGILTENHIQEINAQTTGLRKTMLLLDILPSRGPKAFDTFLDSLQEFPWVREKLKKAREEAMTDLPAGDRLTGIPSHILNSSPSDRQINQLAQRLGPEWEPMVLSLGLSQTDIYRCKANHPHNVQSQVVEAFIRWRQRFGKQATFQSLHNGLRAVEVDPSLLLHMLE |
| 633 | sp|Q8NHY2|COP1\_HUMAN | MSGSRQAGSGSAGTSPGSSAASSVTSASSSLSSSPSPPSVAVSAAALVSGGVAQAAGSGGLGGPVRPVLVAPAVSGSGGGAVSTGLSRHSCAARPSAGVGGSSSSLGSGSRKRPLLAPLCNGLINSYEDKSNDFVCPICFDMIEEAYMTKCGHSFCYKCIHQSLEDNNRCPKCNYVVDNIDHLYPNFLVNELILKQKQRFEEKRFKLDHSVSSTNGHRWQIFQDWLGTDQDNLDLANVNLMLELLVQKKKQLEAESHAAQLQILMEFLKVARRNKREQLEQIQKELSVLEEDIKRVEEMSGLYSPVSEDSTVPQFEAPSPSHSSIIDSTEYSQPPGFSGSSQTKKQPWYNSTLASRRKRLTAHFEDLEQCYFSTRMSRISDDSRTASQLDEFQECLSKFTRYNSVRPLATLSYASDLYNGSSIVSSIEFDRDCDYFAIAGVTKKIKVYEYDTVIQDAVDIHYPENEMTCNSKISCISWSSYHKNLLASSDYEGTVILWDGFTGQRSKVYQEHEKRCWSVDFNLMDPKLLASGSDDAKVKLWSTNLDNSVASIEAKANVCCVKFSPSSRYHLAFGCADHCVHYYDLRNTKQPIMVFKGHRKAVSYAKFVSGEEIVSASTDSQLKLWNVGKPYCLRSFKGHINEKNFVGLASNGDYIACGSENNSLYLYYKGLSKTLLTFKFDTVKSVLDKDRKEDDTNEFVSAVCWRALPDGESNVLIAANSQGTIKVLELV |
| 634 | sp|Q07490|CD24\_RAT | MGRAMVVRLGLGLLLLALLLPTQIYCNQTSVAPFSGNQSISAAPNPTNATTRSGCSSLQSTAGLLALSLSLLHLYC |
| 635 | sp|Q00557|CP1A1\_MESAU | MSSIYGLLNFMSATELLLAITVFCLGFWVVRALRTQVPKGLKTPPGPWGLPILGHVLTLGKNPHLSLTKLSKQYGDVLQIRIGSTPVVVLSGLDTIRQALVRQGDDFKGRPDFYSFTLITNGKSMTFNPDCGPVWAARRRLAQDALKSFSIALDPASASSCYLEEYVIKEADYLISKFQKLMAEVGHFDPDRYLVVSVTNVICAMCFGQRYDHDDQELLSIVNLSNEFGKVTGSGYPPDFIPILRYLPNSSLDAFKDLNKKFYSFMQKSVKEHYRTFEKGHIRDITDSLIEHCQDKSLDENANVQLSDDRVINIIVDLFGAGFDTVTTAISWSLMYLVTNPGVQRKIQEELDTVIGRSRRPRLCDRSQLPYLEAFILETFRHSSFLPFTIPHSTTRDTSLCGFYIPKGHCVFVNQWQINHNQELWGDPNKFRPERFLTSSGTLDKVLSGKVTLFGLGKRKCIGETIGRLEVFLFLAILLQQIEFTVSPGEKVDMTPIYGLTLKHARCEYFQAQTRSSGPQHPQA |
| 636 | sp|O15431|COPT1\_HUMAN | MDHSHHMGMSYMDSNSTMQPSHHHPTTSASHSHGGGDSSMMMMPMTFYFGFKNVELLFSGLVINTAGEMAGAFVAVFLLAMFYEGLKIARESLLRKSQVSIRYNSMPVPGPNGTILMETHKTVGQQMLSFPHLLQTVLHIIQVVISYFLMLIFMTYNGYLCIAVAAGAGTGYFLFSWKKAVVVDITEHCH |
| 637 | sp|Q157S1|CRTC1\_RAT | MATSNNPRKFSEKIALHNQKQAEETAAFEEVMKDLSLTRAARLQLQKSQYLQLGPSRGQYYGGSLPNVNQIGSSSMDLSFQTPFQSSGLDTSRTTRHHGLVDRVYRERGRLGSPHRRPLSVDKHGRQADSCPYGTVYLSPPADTSWRRTNSDSALHQSTMTPTQAESFTGGPQDAHQKRVLLLTVPGMEETGSETDKTLSKQSWDSKKAGSRPKSCEVPGINIFPSADQENTAALIPATHNTGGSLPDLSTIHFPSPLPTPLDPEEPPFPALTSSGSTGSLAHLGVGGTGQGMNTPSSSPQRRPAVVSPLSLSTEARRQQAQQVPPTLSPLSPITQAVAMDALSLEQQLPYAFFTQAGSQQPPPQPQPPPPPPPVSQQQPPPPQVSVGLPQGGPLLPSASLTRGPQLPPLAVTVPSTLPQSPTESPGQPPMGIDVTSAPALQYRTGAGSPATQSPTSPVSNQGFSPGSSPQHTSTLGSVFGDAYYEQQMTARQANALSRQLEQFNMMENAISSSSLYNPGSTLNYSQAAMMGLSGSHGGLQDPQQLGYAGHGGIPNIILTVTGESPPSLSKELSSTLAGVSDVSFDSDHQFPLDELKIDPLTLDGLHMLNDPDMVLADPATEDTFRMDRL |
| 638 | sp|P17178|CP27A\_RAT | MAVLSRMRLRWALLDTRVMGHGLCPQGARAKAAIPAALRDHESTEGPGTGQDRPRLRSLAELPGPGTLRFLFQLFLRGYVLHLHELQALNKAKYGPMWTTTFGTRTNVNLASAPLLEQVMRQEGKYPIRDSMEQWKEHRDHKGLSYGIFITQGQQWYHLRHSLNQRMLKPAEAALYTDALNEVISDFIARLDQVRTESASGDQVPDVAHLLYHLALEAICYILFEKRVGCLEPSIPEDTATFIRSVGLMFKNSVYVTFLPKWSRPLLPFWKRYMNNWDNIFSFGEKMIHQKVQEIEAQLQAAGPDGVQVSGYLHFLLTKELLSPQETVGTFPELILAGVDTTSNTLTWALYHLSKNPEIQEALHKEVTGVVPFGKVPQNKDFAHMPLLKAVIKETLRLYPVVPTNSRIITEKETEINGFLFPKNTQFVLCHYVVSRDPSVFPEPESFQPHRWLRKREDDNSGIQHPFGSVPFGYGVRSCLGRRIAELEMQLLLSRLIQKYEVVLSPGMGEVKSVSRIVLVPSKKVSLRFLQRQ |
| 639 | sp|O75131|CPNE3\_HUMAN | MAAQCVTKVALNVSCANLLDKDIGSKSDPLCVLFLNTSGQQWYEVERTERIKNCLNPQFSKTFIIDYYFEVVQKLKFGVYDIDNKTIELSDDDFLGECECTLGQIVSSKKLTRPLVMKTGRPAGKGSITISAEEIKDNRVVLFEMEARKLDNKDLFGKSDPYLEFHKQTSDGNWLMVHRTEVVKNNLNPVWRPFKISLNSLCYGDMDKTIKVECYDYDNDGSHDLIGTFQTTMTKLKEASRSSPVEFECINEKKRQKKKSYKNSGVISVKQCEITVECTFLDYIMGGCQLNFTVGVDFTGSNGDPRSPDSLHYISPNGVNEYLTALWSVGLVIQDYDADKMFPAFGFGAQIPPQWQVSHEFPMNFNPSNPYCNGIQGIVEAYRSCLPQIKLYGPTNFSPIINHVARFAAAATQQQTASQYFVLLIITDGVITDLDETRQAIVNASRLPMSIIIVGVGGADFSAMEFLDGDGGSLRSPLGEVAIRDIVQFVPFRQFQNAPKEALAQCVLAEIPQQVVGYFNTYKLLPPKNPATKQQKQ |
| 640 | sp|Q07973|CP24A\_HUMAN | MSSPISKSRSLAAFLQQLRSPRQPPRLVTSTAYTSPQPREVPVCPLTAGGETQNAAALPGPTSWPLLGSLLQILWKGGLKKQHDTLVEYHKKYGKIFRMKLGSFESVHLGSPCLLEALYRTESAYPQRLEIKPWKAYRDYRKEGYGLLILEGEDWQRVRSAFQKKLMKPGEVMKLDNKINEVLADFMGRIDELCDERGHVEDLYSELNKWSFESICLVLYEKRFGLLQKNAGDEAVNFIMAIKTMMSTFGRMMVTPVELHKSLNTKVWQDHTLAWDTIFKSVKACIDNRLEKYSQQPSADFLCDIYHQNRLSKKELYAAVTELQLAAVETTANSLMWILYNLSRNPQVQQKLLKEIQSVLPENQVPRAEDLRNMPYLKACLKESMRLTPSVPFTTRTLDKATVLGEYALPKGTVLMLNTQVLGSSEDNFEDSSQFRPERWLQEKEKINPFAHLPFGVGKRMCIGRRLAELQLHLALCWIVRKYDIQATDNEPVEMLHSGTLVPSRELPIAFCQR |
| 641 | sp|Q9WVK8|CP46A\_MOUSE | MSPGLLLLGSAVLLAFGLCCTFVHRARSRYEHIPGPPRPSFLLGHLPYFWKKDEDCGRVLQDVFLDWAKKYGPVVRVNVFYKTSVIVTSPESVKKFLMSTKYNKDSKMYRALQTVFGERLFGQGLVSECDYGRWYKQRKVMDLAFSRSSLVSLMETFNEKAEQLVEILEAKADGQTPVSMQDMLTCATIDILAKAAFGMETSMLLGAQKPLSQAVKVMLEGISASRNTLAKFMPGKRKQLREIRESIRLLRQVGKDWVQRRREALKRGEDMPADILTQILKAEEGAQDDEVLLDNFVTFFIAGHETSANHLAFTVMELSRQPEIVARLQAEVDEVVGSKRHLDYEDLGRLQYLSQVLKESLRLYPPAWGTFRLLEEETLIDGVRVPGNTPLLFSTYVMGRMDTYFEDPLTFNPDRFGPGAPKPRFTYFPFSLGHRSCIGQQFAQMEVKVVMAKLLQRIEFRLVPGQRFGLQEQATLKPLDPVLCTLRPRGWQPAPPPPPC |
| 642 | sp|P53301|CRH1\_YEAST | MKVLDLLTVLSASSLLSTFAAAESTATADSTTAASSTASCNPLKTTGCTPDTALATSFSEDFSSSSKWFTDLKHAGEIKYGSDGLSMTLAKRYDNPSLKSNFYIMYGKLEVILKAANGTGIVSSFYLQSDDLDEIDIEWVGGDNTQFQSNFFSKGDTTTYDRGEFHGVDTPTDKFHNYTLDWAMDKTTWYLDGESVRVLSNTSSEGYPQSPMYLMMGIWAGGDPDNAAGTIEWAGGETNYNDAPFTMYIEKVIVTDYSTGKKYTYGDQSGSWESIEADGGSIYGRYDQAQEDFAVLANGGSISSSSTSSSTVSSSASSTVSSSVSSTVSSSASSTVSSSVSSTVSSSSSVSSSSSTSPSSSTATSSKTLASSSVTTSSSISSFEKQSSSSSKKTVASSSTSESIISSTKTPATVSSTTRSTVAPTTQQSSVSSDSPVQDKGGVATSSNDVTSSTTQISSKYTSTIQSSSSEASSTNSVQISNGADLAQSLPREGKLFSVLVALLALL |
| 643 | sp|O14579|COPE\_HUMAN | MAPPAPGPASGGSGEVDELFDVKNAFYIGSYQQCINEAQRVKLSSPERDVERDVFLYRAYLAQRKFGVVLDEIKPSSAPELQAVRMFADYLAHESRRDSIVAELDREMSRSVDVTNTTFLLMAASIYLHDQNPDAALRALHQGDSLECTAMTVQILLKLDRLDLARKELKRMQDLDEDATLTQLATAWVSLATGGEKLQDAYYIFQEMADKCSPTLLLLNGQAACHMAQGRWEAAEGLLQEALDKDSGYPETLVNLIVLSQHLGKPPEVTNRYLSQLKDAHRSHPFIKEYQAKENDFDRLVLQYAPSA |
| 644 | sp|O89046|COR1B\_RAT | MSFRKVVRQSKFRHVFGQPVKNDQCYEDIRVSRVTWDSTFCAVNPKFLAVIVEASGGGAFMVLPLNKTGRIDKAYPTVCGHTGPVLDIDWCPHNDEVIASGSEDCTVMVWQIPENGLTSPLTEPVVVLEGHTKRVGIITWHPTARNVLLSAGCDNVVLIWNVGTAEELYRLDSLHPDLIYNVSWNHNGSLFCTACKDKSVRIIDPRRGTLVAEREKAHEGARPMRAIFLADGKVFTAGFSRMSERQLALWDPENFEEPMALQELDSSNGALLPFYDPDTSVVYVCGKGDSSIRYFEITDEPPYIHFLNTFTSKEPQRGMGSMPKRGLEVSKCEIARFYKLHERKCEPIVMTVPRKSDLFQDDLYPDTAGPDAALEAEDWVSGQDADPILISLREAYVPSKQRDLKVSRRNVLSDSKPAGYSRSGVSTATAITDIPSGNLAGSGEAGKLEEVMHGLRALRVLVKEQGERISRLEEHLGRMENGDT |
| 645 | sp|O46512|CP19A\_HORSE | MILEMLNPMHYNLTSMVPEVMPVATLPILLLTGFLFFVWNHEETSSIPGPGYCMGIGPLISHLRFLWMGLGSACNYYNKMYGEFVRVWISGEETLVISKSSSTFHIMKHDHYSSRFGSTFGLQYMGMHENGVIFNNNPAVWKALRPFFVKALSGPSLARMVTVCVESVNNHLDRLDEVTNALGHVNVLTLMRRTMLDASNTLFLRIPLDEKNIVLKIQGYFDAWQALLIKPNIFFKISWLSRKHQKSIKELRDAVGILAEEKRHRIFTAEKLEDHVDFATDLILAEKRGELTKENVNQCILEMMIAAPDTLSVTVFFMLCLIAQHPKVEEALMKEIQTVLGERDLKNDDMQKLKVMENFINESMRYQPVVDIVMRKALEDDVIDGYPVKKGTNIILNIGRMHKLEFFPKPNEFTLENFEKNVPYRYFQPFGFGPRSCAGKFIAMVMMKVMLVSLLRRFHVKTLQGNCLENMQKTNDLALHPDESRSLPAMIFTPRNSEKCLEH |
| 646 | sp|O95477|ABCA1\_HUMAN | MACWPQLRLLLWKNLTFRRRQTCQLLLEVAWPLFIFLILISVRLSYPPYEQHECHFPNKAMPSAGTLPWVQGIICNANNPCFRYPTPGEAPGVVGNFNKSIVARLFSDARRLLLYSQKDTSMKDMRKVLRTLQQIKKSSSNLKLQDFLVDNETFSGFLYHNLSLPKSTVDKMLRADVILHKVFLQGYQLHLTSLCNGSKSEEMIQLGDQEVSELCGLPREKLAAAERVLRSNMDILKPILRTLNSTSPFPSKELAEATKTLLHSLGTLAQELFSMRSWSDMRQEVMFLTNVNSSSSSTQIYQAVSRIVCGHPEGGGLKIKSLNWYEDNNYKALFGGNGTEEDAETFYDNSTTPYCNDLMKNLESSPLSRIIWKALKPLLVGKILYTPDTPATRQVMAEVNKTFQELAVFHDLEGMWEELSPKIWTFMENSQEMDLVRMLLDSRDNDHFWEQQLDGLDWTAQDIVAFLAKHPEDVQSSNGSVYTWREAFNETNQAIRTISRFMECVNLNKLEPIATEVWLINKSMELLDERKFWAGIVFTGITPGSIELPHHVKYKIRMDIDNVERTNKIKDGYWDPGPRADPFEDMRYVWGGFAYLQDVVEQAIIRVLTGTEKKTGVYMQQMPYPCYVDDIFLRVMSRSMPLFMTLAWIYSVAVIIKGIVYEKEARLKETMRIMGLDNSILWFSWFISSLIPLLVSAGLLVVILKLGNLLPYSDPSVVFVFLSVFAVVTILQCFLISTLFSRANLAAACGGIIYFTLYLPYVLCVAWQDYVGFTLKIFASLLSPVAFGFGCEYFALFEEQGIGVQWDNLFESPVEEDGFNLTTSVSMMLFDTFLYGVMTWYIEAVFPGQYGIPRPWYFPCTKSYWFGEESDEKSHPGSNQKRISEICMEEEPTHLKLGVSIQNLVKVYRDGMKVAVDGLALNFYEGQITSFLGHNGAGKTTTMSILTGLFPPTSGTAYILGKDIRSEMSTIRQNLGVCPQHNVLFDMLTVEEHIWFYARLKGLSEKHVKAEMEQMALDVGLPSSKLKSKTSQLSGGMQRKLSVALAFVGGSKVVILDEPTAGVDPYSRRGIWELLLKYRQGRTIILSTHHMDEADVLGDRIAIISHGKLCCVGSSLFLKNQLGTGYYLTLVKKDVESSLSSCRNSSSTVSYLKKEDSVSQSSSDAGLGSDHESDTLTIDVSAISNLIRKHVSEARLVEDIGHELTYVLPYEAAKEGAFVELFHEIDDRLSDLGISSYGISETTLEEIFLKVAEESGVDAETSDGTLPARRNRRAFGDKQSCLRPFTEDDAADPNDSDIDPESRETDLLSGMDGKGSYQVKGWKLTQQQFVALLWKRLLIARRSRKGFFAQIVLPAVFVCIALVFSLIVPPFGKYPSLELQPWMYNEQYTFVSNDAPEDTGTLELLNALTKDPGFGTRCMEGNPIPDTPCQAGEEEWTTAPVPQTIMDLFQNGNWTMQNPSPACQCSSDKIKKMLPVCPPGAGGLPPPQRKQNTADILQDLTGRNISDYLVKTYVQIIAKSLKNKIWVNEFRYGGFSLGVSNTQALPPSQEVNDAIKQMKKHLKLAKDSSADRFLNSLGRFMTGLDTKNNVKVWFNNKGWHAISSFLNVINNAILRANLQKGENPSHYGITAFNHPLNLTKQQLSEVALMTTSVDVLVSICVIFAMSFVPASFVVFLIQERVSKAKHLQFISGVKPVIYWLSNFVWDMCNYVVPATLVIIIFICFQQKSYVSSTNLPVLALLLLLYGWSITPLMYPASFVFKIPSTAYVVLTSVNLFIGINGSVATFVLELFTDNKLNNINDILKSVFLIFPHFCLGRGLIDMVKNQAMADALERFGENRFVSPLSWDLVGRNLFAMAVEGVVFFLITVLIQYRFFIRPRPVNAKLSPLNDEDEDVRRERQRILDGGGQNDILEIKELTKIYRRKRKPAVDRICVGIPPGECFGLLGVNGAGKSSTFKMLTGDTTVTRGDAFLNKNSILSNIHEVHQNMGYCPQFDAITELLTGREHVEFFALLRGVPEKEVGKVGEWAIRKLGLVKYGEKYAGNYSGGNKRKLSTAMALIGGPPVVFLDEPTTGMDPKARRFLWNCALSVVKEGRSVVLTSHSMEECEALCTRMAIMVNGRFRCLGSVQHLKNRFGDGYTIVVRIAGSNPDLKPVQDFFGLAFPGSVLKEKHRNMLQYQLPSSLSSLARIFSILSQSKKRLHIEDYSVSQTTLDQVFVNFAKDQSDDDHLKDLSLHKNQTVVDVAVLTSFLQDEKVKESYV |
| 647 | sp|O54967|ACK1\_MOUSE | MQPEEGTGWLLELLSEVQLQQYFLRLRDDLNITRLSHFEYVKNEDLEKIGMGRPGQRRLWEAVKRRKAMCKRKSWMSKVFSGKRLEAEFPSQHSQSTFRKPSPTPGSLPGEGTLQSLTCLIGEKDLRLLEKLGDGSFGVVRRGEWDAPAGKTVSVAVKCLKPDVLSQPEAMDDFIREVNAMHSLDHRNLIRLYGVVLTLPMKMVTELAPLGSLLDRLRKHQGHFLLGTLSRYAVQVAEGMAYLESKRFIHRDLAARNLLLATRDLVKIGDFGLMRALPQNDDHYVMQEHRKVPFAWCAPESLKTRTFSHASDTWMFGVTLWEMFTYGQEPWIGLNGSQILHKIDKEGERLPRPEDCPQDIYNVMVQCWAHKPEDRPTFVALRDFLLEAQPTDMRALQDFEEPDKLHIQMNDVITVIEGRAENYWWRGQNTRTLCVGPFPRNVVTSVAGLSAQDISQPLQNSFIHTGHGDSDPRHCWGFPDRIDELYLGNPMDPPDLLSVELSTSRPTQHLGRVKREPPPRPPQPAIFTQKTTYDPVSEDPDPLSSDFKRLGLRKPALPRGLWLAKPSARVPGTKADRSSGGEVTLIDFGEEPVVPTPRPCAPSLAQLAMDACSLLDKTPPQSPTRALPRPLHPTPVVDWDARPLPPPPAYDDVAQDEDDFEVCSINSTLVGAGLPAGPSQGETNYAFVPEQAQMPPALEDNLFLPPQGGGKPPSSVQTAEIFQALQQECMRQLQVPTGQLTPSPTPGGDDKPQVPPRVPIPPRPTRPRVELSPAPSGEEETSRWPGPASPPRVPPREPLSPQGSRTPSPLVPPGSSPLPHRLSSSPGKTMPTTQSFASDPKYATPQVIQAPGPRAGPCILPIVRDGRKVSSTHYYLLPERPPYLERYQRFLREAQSPEEPAALPVPPLLPPPSTPAPAAPTATVRPMPQAAPDPKANFSTNNSNPGARPPSLRAAARLPQRGCPGDGQEAARPADKVQMLQAMVHGVTTEECQAALQSHSWSVQRAAQYLKVEQLFGLGLRPRVECHKVLEMFDWNLEQAGCHLLGSCGPAHHKR |
| 648 | sp|Q9VZI2|ACK\_DROME | MTSTSAVDGGLGSETAWLEDLLREVQLEQFLDRIRDDLQVTRLAHFDYVLPDDLERCGLGKPAIRRLMEAVRKKKAHQWRKNILSKLIGGGKQPSSKKQSSAARESSQGNGTQLTCLIHEKDITMGLKLGDGSFGVVRRGEWSASPAGKVIPVAVKVLKSDNLTQPGIIDDFFREVQAMHALDHANLVRLYGVVLSQPMMMITELAERGSLLDTLRKQCRHTSLTIIWNWSVQIVTGMAYLEQKRFLHRDLACRNVLLAAGNKIKIGDFGLMRALPQEDDCYVMSEHKKVPFPWCAPESLRFRQFSHASDTWMFGVTLWEMFSFGEDPWVGLNGSQILRKIDREGERLHQPDACPPDVYAMMLQCWDKTPAERPTFAALKEYLASMSPPVMRASRSHHESKGLQIEPGDTIAIIDGRHELKLIKGQNQRTFDIGIFPRNLLEQRKVGAAGDVVMRSSVGNGSSSSPFGFCWGGAAAMANGDDRQRKCASMTNQPHAKERKSTSSKQFAYNKLVNDSATGLQRRNAVKHKGVVVGPQRPPPPQFQQEGILIDISPDMRPIAEAGTGGAKGAGDSSSLQADSSFCILDAPIDVPTYAGSSGSGDLNVSPTYYNEQPQFDFDPAKMTASPGRLQPPPYQMPPTYSNTMEFVQKRDLHQQQLATPVRERDPFDTTNVETTVALYSNFNQSLEAASPPAPIYNSPSVRKSLFGGSKSNKENIPALESAAMQLNLSNLTLERHDATCIQPVEPVPAPPGDGVLLDKSFIAELEKDMYSNGQNRAQEEYQRNSTQMYASKDMVYKQNLTPLKNGAAPGSVHSNHSSPSSTASPKQNNVEAAAAAAATTQSVVNRIWYEQVASTQSEYYAQPPTEQAEEQIYQNHRHQQQQQQELNHSFVAISNRVVAPKNNAYSSTASLYDAVAASTAGSTYYGQVPNGSGAVLYDEVTQDDYLRPTRPAPLAPPPLSAQQIQRRMEKMRLQQQQQLDGAHQLYAPVPSDYGREQEKLQQLMQELGSSAVEQDVRNALRAASGDVGLATRHYKIDQLARLGVAGRPQCEQALQQTNWSLEVAAELLLNAG |
| 649 | sp|Q8K4G5|ABLM1\_MOUSE | MPSLLGLKCLGKLCSSEIGKVPSPERASLRNSHRRLLIEDLSVPETPDPAHRRRGTVIHLVYLYSAGCGPPELRFSSYDPSVAHPQDPHHSSEKPVIHCHKCGEPCKGEVLRVQTKHFHIKCFTCKVCGCDLAQGGFFIKNGDYLCTLDYQRMYGTRCHGCGEFVEGEVVTALGKTYHPNCFACTICKRPFPPGDRVTFNGRDCLCQLCAQPMSSSPKEASCSSNCAGCGRDIKNGQALLALDKQWHLGCFKCKSCGKVLTGEYISKDGSPYCEKDYQGLFGVKCEACHQFITGKVLEAGDKHYHPSCARCSRCNQMFTEGEEMYLQGSTVWHPDCKQSTKTEEKLRPPNIPRSSSDFFYPKSLIRRTGRSPALQLLSPPCLTNSNKNPRQPTRTSSESIYSRPGSSIPGSPGHTIYAKVDNEILDYKDLAAIPKVKAIYDIERPDLITYEPFYTSGYEDKQERQSLGESPRTLSPTPSAEGYQDVRDRMIHRSTSQGSINSPVYSRHSYTPTTSRSPQHFHRPELLSPGVHRWSPLRTSSFSSTHSDSRPNPPFRHHFLPHVKGNEPSSGRNSPLPYRPDSRPLTPTYAQAPKHFHVPDQGINIYRKPPIYKQHAALAAQSKASEDIIKFSKFPAAQAPDPNEIPKIETDHWPGPPSLAAVGTDPRRRSSGREEDEEELLRRRQLQEEQLMKLNSGLGQLILKEEMEKESRERASLASRYDSPLHSASHAPSSKTSSLPGYGKNGLHRPVSTDFAQYNSYGDISGGVRDYQTLPDGHMPAVRMDRGVSMPNMLEPKIFPYEMLMVTNRGRNKILRDVDRTRLERHLAPEVFWEIFGMSIQEFDKLPLWRRNDMKKKAKLF |
| 650 | sp|Q61767|3BHS4\_MOUSE | MPGWSCLVTGAGGFLGQRIVRMLVQEEELQEIRALFRTFGRKQEEELSKLQTKTKVTVLKGDILDAQCLKRACQGMSAVIHTAAAIDPLGAASRQTILDVNLKGTQLLLDACVEANVPTFIYSSSVLVAGPNSYKEIILNAHEEEHHESTWSNPYPYSKKMAEKAVLAANGSILKNGGTLHTCALRLSFIYGEECQVTSTTVKTALKNNSIIKKNATFSIANPVYVGNAAWAHILAARSLQDPKKSPSIQGQFYYITDDTPHQSYDDLKCTLSKEWGLRLDTSWSLPLPLLYWLAFLLETVSFLLRPVYNYRPPFNRLLITVLNSVFTFSYKKAQRDLGYEPLVSWEEAKQKTSEWIGTLVMQHREIGNKKSQ |
| 651 | sp|Q8VD66|ABHD4\_MOUSE | MADDLEQQPQGWLSSWLPTWRPTSMSQLKNVEARILQCLQNKFLARYVSLPNQNKIWTVTVSPEQKDRTPLVMVHGFGGGVGLWILNMDSLSARRTLHTFDLLGFGRSSRPTFPRDPEGAEDEFVASIETWRETMGIPTMILLGHSLGGFLATSYSIKYPERVKHLILVDPWGFPLRPTDPSEIRAPPTWVKAVASVLGRSNPLAVLRVAGPWGPGLVQRFRPDFKRKFADFFEDDTISEYIYHCNAQNPSGETAFKAMMESFGWARRPMLERIHLIRKDVPITMIYGANTWIDTSTGKKVKMQRPDSYVRDMEIEGASHHVYADQPHIFNAVVEEICNSVD |
| 652 | sp|P07108|ACBP\_HUMAN | MSQAEFEKAAEEVRHLKTKPSDEEMLFIYGHYKQATVGDINTERPGMLDFTGKAKWDAWNELKGTSKEDAMKAYINKVEELKKKYGI |
| 653 | sp|P32297|ACHA3\_HUMAN | MGSGPLSLPLALSPPRLLLLLLLSLLPVARASEAEHRLFERLFEDYNEIIRPVANVSDPVIIHFEVSMSQLVKVDEVNQIMETNLWLKQIWNDYKLKWNPSDYGGAEFMRVPAQKIWKPDIVLYNNAVGDFQVDDKTKALLKYTGEVTWIPPAIFKSSCKIDVTYFPFDYQNCTMKFGSWSYDKAKIDLVLIGSSMNLKDYWESGEWAIIKAPGYKHDIKYNCCEEIYPDITYSLYIRRLPLFYTINLIIPCLLISFLTVLVFYLPSDCGEKVTLCISVLLSLTVFLLVITETIPSTSLVIPLIGEYLLFTMIFVTLSIVITVFVLNVHYRTPTTHTMPSWVKTVFLNLLPRVMFMTRPTSNEGNAQKPRPLYGAELSNLNCFSRAESKGCKEGYPCQDGMCGYCHHRRIKISNFSANLTRSSSSESVDAVLSLSALSPEIKEAIQSVKYIAENMKAQNEAKEIQDDWKYVAMVIDRIFLWVFTLVCILGTAGLFLQPLMAREDA |
| 654 | sp|P16375|7UP1\_DROME | MCASPSTAPGFFNPRPQSGAELSAFDIGLSRSMGLGVPPHSAWHEPPASLGGHLHAASAGPGTTTGSVATGGGGTTPSSVASQQSAVIKQDLSCPSLNQAGSGHHPGIKEDLSSSLPSANGGSAGGHHSGSGSGSGSGVNPGHGSDMLPLIKGHGQDMLTSIKGQPTGCGSTTPSSQANSSHSQSSNSGSQIDSKQNIECVVCGDKSSGKHYGQFTCEGCKSFFKRSVRRNLTYSCRGSRNCPIDQHHRNQCQYCRLKKCLKMGMRREAVQRGRVPPTQPGLAGMHGQYQIANGDPMGIAGFNGHSYLSSYISLLLRAEPYPTSRYGQCMQPNNIMGIDNICELAARLLFSAVEWAKNIPFFPELQVTDQVALLRLVWSELFVLNASQCSMPLHVAPLLAAAGLHASPMAADRVVAFMDHIRIFQEQVEKLKALHVDSAEYSCLKAIVLFTTDACGLSDVTHIESLQEKSQCALEEYCRTQYPNQPTRFGKLLLRLPSLRTVSSQVIEQLFFVRLVGKTPIETLIRDMLLSGNSFSWPYLPSM |
| 655 | sp|P30994|5HT2B\_RAT | MASSYKMSEQSTISEHILQKTCDHLILTDRSGLKAESAAEEMKQTAENQGNTVHWAALLIFAVIIPTIGGNILVILAVSLEKRLQYATNYFLMSLAVADLLVGLFVMPIALLTIMFEATWPLPLALCPAWLFLDVLFSTASIMHLCAISLDRYIAIKKPIQANQCNSRTTAFVKITVVWLISIGIAIPVPIKGIEADVVNAHNITCELTKDRFGSFMLFGSLAAFFAPLTIMIVTYFLTIHALRKKAYLVRNRPPQRLTRWTVSTVLQREDSSFSSPEKMVMLDGSHKDKILPNSTDETLMRRMSSAGKKPAQTISNEQRASKVLGIVFLFFLLMWCPFFITNVTLALCDSCNQTTLKTLLQIFVWVGYVSSGVNPLIYTLFNKTFREAFGRYITCNYQATKSVKVLRKCSSTLYFGNSMVENSKFFTKHGIRNGINPAMYQSPVRLRSSTIQSSSIILLNTFLTENDGDKVEDQVSYI |
| 656 | sp|P9WQP1|A85B\_MYCTU | MTDVSRKIRAWGRRLMIGTAAAVVLPGLVGLAGGAATAGAFSRPGLPVEYLQVPSPSMGRDIKVQFQSGGNNSPAVYLLDGLRAQDDYNGWDINTPAFEWYYQSGLSIVMPVGGQSSFYSDWYSPACGKAGCQTYKWETFLTSELPQWLSANRAVKPTGSAAIGLSMAGSSAMILAAYHPQQFIYAGSLSALLDPSQGMGPSLIGLAMGDAGGYKAADMWGPSSDPAWERNDPTQQIPKLVANNTRLWVYCGNGTPNELGGANIPAEFLENFVRSSNLKFQDAYNAAGGHNAVFNFPPNGTHSWEYWGAQLNAMKGDLQSSLGAG |
| 657 | sp|P61981|1433G\_HUMAN | MVDREQLVQKARLAEQAERYDDMAAAMKNVTELNEPLSNEERNLLSVAYKNVVGARRSSWRVISSIEQKTSADGNEKKIEMVRAYREKIEKELEAVCQDVLSLLDNYLIKNCSETQYESKVFYLKMKGDYYRYLAEVATGEKRATVVESSEKAYSEAHEISKEHMQPTHPIRLGLALNYSVFYYEIQNAPEQACHLAKTAFDDAIAELDTLNEDSYKDSTLIMQLLRDNLTLWTSDQQDDDGGEGNN |
| 658 | sp|Q8W1W9|5MAT1\_SALSN | MTTTTTILETCHIPPPPAANDLSIPLSFFDIKWLHYHPVRRLLFYHHPSSKSQFLHTIVPHLKQSLSLALTHYLPVAGNLLYPSNTEKFPQLRYAAGDSVPVTIAESNSDFESLTGNHTRDADQFYDLLPPIPPIEEESDWKLINIFAVQITLFPGEGICIGFSNHHCLGDARSIVGFISAWGEINGIGGYEGFLSNHSDSLSLPIFDRSFINDPNKIDAIFWKVLRNIPLKTASFPLPTNRVRSTFLLRRSDIEKLKTATKSPASSFVAAAAFVWSCMVKSGDKSDENAPELFIIPADARGRVDPPIPENYFGNCIVSSVAQVERGKLAAEDGFAVAAEAIGGEIEGKLKNRDEILRGAENWMSDIFKCFGMSVLGVSGSPKFDLLKADFGWGKARKLEVLSIDGENHSMSLCSSSDFNGGLEVGLSLPRERMAAFEEVFRASIMAASGPARRSPALVEPL |
| 659 | sp|Q9LYU8|AK1\_ARATH | MAATRVRCCHSNAAFTRLPLTRHRNSPTLPISLNRVDFPTLKKLSLPIGDGSSIRKVSGSGSRNIVRAVLEEKKTEAITEVDEKGITCVMKFGGSSVASAERMKEVADLILTFPEESPVIVLSAMGKTTNNLLLAGEKAVSCGVSNASEIEELSIIKELHIRTVKELNIDPSVILTYLEELEQLLKGIAMMKELTLRTRDYLVSFGECLSTRIFAAYLNTIGVKARQYDAFEIGFITTDDFTNGDILEATYPAVAKRLYDDWMHDPAVPIVTGFLGKGWKTGAVTTLGRGGSDLTATTIGKALGLKEIQVWKDVDGVLTCDPTIYKRATPVPYLTFDEAAELAYFGAQVLHPQSMRPAREGEIPVRVKNSYNPKAPGTIITKTRDMTKSILTSIVLKRNVTMLDIASTRMLGQVGFLAKVFSIFEELGISVDVVATSEVSISLTLDPSKLWSRELIQQELDHVVEELEKIAVVNLLKGRAIISLIGNVQHSSLILERAFHVLYTKGVNVQMISQGASKVNISFIVNEAEAEGCVQALHKSFFESGDLSELLIQPRLGNGSPVRTLQVEN |
| 660 | sp|Q70FJ1|AKAP9\_MOUSE | MEDEERQRKLAAGKAKLARFRQRKAQYDGDIPKKQKKKRTSSSKHDSSLHTDQQSGELCSESSQRVDLAGNPDCSGPERKHGQVFSAEPESEISTTADECSSEINGCNSVMKPRKPTDPLREEEFSLDDSSSEQGAQSSQTCLQMVEKELAEKQHDIEELTQELEEMRASFGTEGLKQLQEFEAAIKQRDGIITQLTANLQQARREKDDTMVEFLELTEQSQKLQIQFQHLQANETLQNSTLSRTATDLLQAKRQIFTQQQQLQDYQKKEEDLQAQISFLQEKLRAFEMEKDRKIENLNAKEIQEKQALIDELNTRVVEEEKKTVELKNKVTTADELLGGLHEQLTQRNQEIQSLKLELGNSQQNERKCSEEIKELMRTVEELQKRNLKDSWLETSAVRRVEQETQRKLSHLQAELDEMYGKQIVQMKQELINQHMSQIEELKSQHKREMENTLKSDTNAAISKEQVNLMNAAINELNVRLQETHAQKEELKGELGVVLGEKSALQSQSNDLLEEVRFLREQVQKARQTIAEQENRLSEARKSLSTVEDLKAEIVAASESRKELELKHEAEITNYKIKLEMLEKEKNAVLDRMAESQEAELERLRTQPLFSHEEELSKLKEDLEVEHRINIEKLKDNLGIHYKQQIDGLQNEMNRKMESMQCETDNLITQQNQLILENSKLRDLQECLVNSKSEEMNLQINELQKEIEILKQEEKEKGTLEQEVQELQLKTEQLEKQLKEKEDDLQEKCAQLDAENNILKEEKRVLEDKLKMYSPSEQEERSIAVDPSTSKLADSRWQKEVAMLRKETEDLQQQCLYLNEEIEKQRNTFAFAEKNFEVNYQELQREYTCLLKIRDDLEATQTKQALEYESKLRALEEELLSKRGNPXAPKGKSSGIFPSETLEIGEVVEKDTTELMEKLEVTKREKLELSEKVSGLSEQLKQTHCTINSLSAEXRALKQEKEQLLLRCGELELLANPSGTENAAVCPVQMSSYQAGLVMGKVGDSGGSISKISKDLAEESKPMIEDKIPFKESGREQLLLPTRAQEPSHATVEPCESEKLQQELHALKAEQDDLRLQMEAQRICLFVVYSTHADQVRAHMEKEREEALCSLKDELISAQQKKIDELHKMHQCQLQNVKIQETGDEPLQVLIERLQKAVSEKCFHISKTLNNVFDECYTPLKCEMNIEEKENSGVYTSQNQSPELQEYRYEVQDFQESMQVLLGKVTEECRKLSGLQTRLGKIHEQQTDGVALEFAEQNAAEEEAGLLSGCSQSALQSTDVSLESKVSSLPASEKNRECERQVQELQSPVAAGQLQLTETEASHRAEIECLQQRLEAASEAPVQPSLSIDSVVFKGSGAQKPVYCGSCLREYVDGTAKFSDRFEVRQETNMVNLMEKQYQERLEEEIAKVIVSMSIAFAQQTELSRLSEGKENTIQSEQAHTLCSQNKHQLNDITSQSQVGLQTFEATDKBFKEEFKPLSKELGEYRKAVPLSSHDDLDDILKSEEHGLAISEEIFSKDETFIVRKSMHDEVLVSSMDTSRQLILNEQLEDMRQELVRQYEEHQQATEMLRQAHMQQMERQREDQEQLQEEIKRLNEQLTQKSSIDTEHVVSERERVLLEELEALKQLPLAGRKELCCELRHSSTQTQDGHDDQEVEEQTLKDKTLERSPEDALLDRNLSNERYALKKANNRLLKILLEVVKTTSAAEETIGRHVLGILDRSSKGQTASSLLWRSEADASATTCAPEDCARAMDESIPSYPGTAIATHDSIWSKVTEEGAELSQRLVRSGFAGPVIDPENEELMLNISSRLQAAVEKLLEAISETNTQLEHAKVTQTELMRESFRQKQEATESLHCLEELRERLQEESRAREQLAEELNKAESVIDGYSDEKTLFERQIQEKTDIIEHLEQEVLCMNNRLQELESDQRRVEEERQLLCRQREAMRAEAGPVEQQFLQETEKLMKEKLEVQCQAEKVRGDLQKQVKALEIDVEEQVSRFIELEQEKNAELTDLRQQSQALEKQLEKMRKFLDEQAIDREHERDVFQQEIQKLEHQLKAAPRIQPVSEHQAREVEQLTNHLKEKTDRCSELLLSKEQLQRDIQERNEEIEKLECRVRELEQALLASAEPFPKVEDQKRSGAVAADPELSLEVQLQAERDATDRKQKEITNLEEQLEQFREELENKNDEVQELLMQLEIQRKESTTRLQELQQENRLFKDEIEKLGFAMKESDSVSTRDQPMLFGKFAQLIQEKEIEIDRLNEQFIKLQQQLKLTTDNKVIEEQKEQIQDLETQIERLMSEREHEKKQREEEVEQLTGVVEKLQQEVVSTEQQREGARTLPEDEESFKHQLDKVTAEKLVLEQQVETTNQVMTHMNNVLKEINFKMDQITQSLCNLNKECASNEELPSLPKESVHMTVHELGSDNLQPEDAPAQDVTKPLEKQTSLTRLQESPEASRTQEIESLASSVGAKDVELTQCREQTETIQEQAQSETDRLQKKLTDLQRSLEKFAAALVSQVQMEAAQEYVPFHQEKQPVSSAPGSTDIQNANGLTGASTESLIPTVTLRLAEVESRVAEVHSGTMSEKLVGIVGGNASETEKRVIELQKLLEEAEERPEEGGEQSSRDGEVRESYMTSLQKDLGQVKDPLTEAKEKLSYSLEKEKRTGEQESREAPIPEPPSVEVGGCSGLTERTDKVSSSGNQTLQILLRDAAIQTDLQSESSQEEVRDTINQLTKKMEHIQELHAAEILDMESRHILETESLKKEHYVAIQLLTKECETLKEMTQCLRCKEGSSIPELADSVAYQSREVYSSDSESDWGQSQGFDTAIEGREEGETSADLFPKKIKGLVKAVHSEGMQVLSLSSPLCDDGEDRSIQQLSESWLKERQAYLNTISSLKDLISKMQVRRETEVYDRCHLSDWRGELLLACQRVFIKERSVLLATFQTELTSLSTRDVDGLLNSLEQRIQEQGIEYHTAMDCLQKADRRSLLAEIEDLRAQINGGKMTLEREQGTEKSSQELLDCSMQQKQSLEMQLELSSLRDRAAELQEQLSSEKMVVAELKSELAQAKLELGTTLKAQHKRLKELEAFRSEVKEKTDEIHFLSDTLAREQKNSLELQWALEKEKARSGHHEEREKEELEDLKFSLEDQKRRNTQLNLLLEQQKQLLNESQQKIESQKMLHDAQLSEEQGRNLGLQALLESEQVRIQEMKSTLDKERELYAQLQSREDGGQPPPALPSEDLLKELQKQLEEKHSRIVELLSETEKYKLDSLQTRQQMEKDRQVHQKTLQTEQEANTQGQKKMQELQSKVEELQRQLQEKRQQVYKLDLEGKRLQGLMQEFQKQELEPEEKPGSRGLVDQNLNEPATWNFTDDRTRNWVLQQKMGEAKDRNFTKLIEINGGELDHNHDLEMIRQTLQHVASKLQHVAQKACSRLQFETAGDDAFIWIQENIDGIILQLQKLTGQPGDEHSLGPPSSSCGSLTESLMRQNTELTRLINQLTEEKNTLRSIVIKLEELNRCYWHTGASRDCCSRFSFIDPADIEAIIASEKEVWNREKLSLQKALKRAEAKVYKLKAELRNDALLRNLGPDTDHAALQKIYNKYLRASSFRKALIYQKKYLLLLLGGFQECEDVTLGVLARMGGHLALKDSKTITNHPKAFSRFRSAVRVSIAISRMKFLVRRWQQVTSTSSININRDGFGLSPGIEKTDPFYHSPGGLELYGEPRHTMYRSRFDLDYPRSLLPLQNRYPGTPGDLNSISMASSQLHQYNPDKSLTDYVTRLEALRRRLGAIQSGSTTQFHFGMRR |
| 661 | sp|O04529|2MMP\_ARATH | MRFCVFGFLSLFLIVSPASAWFFPNSTAVPPSLRNTTRVFWDAFSNFTGCHHGQNVDGLYRIKKYFQRFGYIPETFSGNFTDDFDDILKAAVELYQTNFNLNVTGELDALTIQHIVIPRCGNPDVVNGTSLMHGGRRKTFEVNFSRTHLHAVKRYTLFPGEPRWPRNRRDLTYAFDPKNPLTEEVKSVFSRAFGRWSDVTALNFTLSESFSTSDITIGFYTGDHGDGEPFDGVLGTLAHAFSPPSGKFHLDADENWVVSGDLDSFLSVTAAVDLESVAVHEIGHLLGLGHSSVEESIMYPTITTGKRKVDLTNDDVEGIQYLYGANPNFNGTTSPPSTTKHQRDTGGFSAAWRIDGSSRSTIVSLLLSTVGLVLWFLP |
| 662 | sp|P63268|ACTH\_MOUSE | MCEEETTALVCDNGSGLCKAGFAGDDAPRAVFPSIVGRPRHQGVMVGMGQKDSYVGDEAQSKRGILTLKYPIEHGIITNWDDMEKIWHHSFYNELRVAPEEHPTLLTEAPLNPKANREKMTQIMFETFNVPAMYVAIQAVLSLYASGRTTGIVLDSGDGVTHNVPIYEGYALPHAIMRLDLAGRDLTDYLMKILTERGYSFVTTAEREIVRDIKEKLCYVALDFENEMATAASSSSLEKSYELPDGQVITIGNERFRCPETLFQPSFIGMESAGIHETTYNSIMKCDIDIRKDLYANNVLSGGTTMYPGIADRMQKEITALAPSTMKIKIIAPPERKYSVWIGGSILASLSTFQQMWISKPEYDEAGPSIVHRKCF |
| 663 | sp|Q8INB9|AKT1\_DROME | MNYLPFVLQRRSTVVASAPAPGSASRIPESPTTTGSNIINIIYSQSTHPNSSPTSGSAEKFSWQQSWPSRTSAAPTHDSGTMSINTTFDLSSPSVTSGHALTEQTQVVKEGWLMKRGEHIKNWRQRYFVLHSDGRLMGYRSKPADSASTPSDFLLNNFTVRGCQIMTVDRPKPFTFIIRGLQWTTVIERTFAVESELERQQWTEAIRNVSSRLIDVGEVAMTPSEQTDMTDVDMATIAEDELSEQFSVQGTTCNSSGVKKVTLENFEFLKVLGKGTFGKVILCREKATAKLYAIKILKKEVIIQKDEVAHTLTESRVLKSTNHPFLISLKYSFQTNDRLCFVMQYVNGGELFWHLSHERIFTEDRTRFYGAEIISALGYLHSQGIIYRDLKLENLLLDKDGHIKVADFGLCKEDITYGRTTKTFCGTPEYLAPEVLDDNDYGQAVDWWGTGVVMYEMICGRLPFYNRDHDVLFTLILVEEVKFPRNITDEAKNLLAGLLAKDPKKRLGGGKDDVKEIQAHPFFASINWTDLVLKKIPPPFKPQVTSDTDTRYFDKEFTGESVELTPPDPTGPLGSIAEEPLFPQFSYQGDMASTLGTSSHISTSTSLASMQ |
| 664 | sp|P07510|ACHG\_HUMAN | MHGGQGPLLLLLLLAVCLGAQGRNQEERLLADLMQNYDPNLRPAERDSDVVNVSLKLTLTNLISLNEREEALTTNVWIEMQWCDYRLRWDPRDYEGLWVLRVPSTMVWRPDIVLENNVDGVFEVALYCNVLVSPDGCIYWLPPAIFRSACSISVTYFPFDWQNCSLIFQSQTYSTNEIDLQLSQEDGQTIEWIFIDPEAFTENGEWAIQHRPAKMLLDPAAPAQEAGHQKVVFYLLIQRKPLFYVINIIAPCVLISSVAILIHFLPAKAGGQKCTVAINVLLAQTVFLFLVAKKVPETSQAVPLISKYLTFLLVVTILIVVNAVVVLNVSLRSPHTHSMARGVRKVFLRLLPQLLRMHVRPLAPAAVQDTQSRLQNGSSGWSITTGEEVALCLPRSELLFQQWQRQGLVAAALEKLEKGPELGLSQFCGSLKQAAPAIQACVEACNLIACARHQQSHFDNGNEEWFLVGRVLDRVCFLAMLSLFICGTAGIFLMAHYNRVPALPFPGDPRPYLPSPD |
| 665 | sp|Q60I27|AL2CL\_HUMAN | MCNPEEAALLRLEEVFSATLAHVNSLVLQPLLPAAPDPSDPWGRECLRLLQQLHKSSQQLWEVTEESLHSLQERLRYPDSTGLESLLLLRGADRVLQAHIEYIESYTSCMVVQAFQKAAKRRSEYWRGQRKALRQLLSGVSSEGSVGASLGQALHQPLAHHVQQYVLLLLSLGDTIGEHHPTRELVVNAVTLFGNLQSFMKQELDQAVATQALWHTLRGRLRDVLCTPAHRLLQDSQDVPVTVAPLRAERVLLFDDALVLLQGHNVHTFDLKLVWVDPGQDGCTFHLLTPEEEFSFCAKDSQGQAVWQWKVTWAVHQALHGKKDFPVLGAGLEPSQPPDCRCAEYTFQAEGRLCQATYEGEWCRGRPHGKGTLKWPDGRNHVGNFCQGLEHGFGIRLLPQASEDKFDCYKCHWREGSMCGYGICEYSTDEVYKGYFQEGLRHGFGVLESGPQAPQPFRYTGHWERGQRSGYGIEEDGDRGERYIGMWQAGQRHGPGVMVTQAGVCYQGTFQADKTVGPGILLSEDDSLYEGTFTRDLTLMGKGKVTFPNGFTLEGSFGSGAGRGLHTQGVLDTAALPPDPSSTCKRQLGVGAFPVESRWQGVYSPFRDFVCAGCPRDLQEALLGFDVQSSRELRRSQDYLSCERTHPEDSVGSMEDILEELLQHREPKALQLYLRKALSNSLHPLGKLLRTLMLTFQATYAGVGANKHLQELAQEEVKQHAQELWAAYRGLLRVALERKGQALEEDEDTETRDLQVHGLVLPLMLPSFYSELFTLYLLLHEREDSFYSQGIANLSLFPDTQLLEFLDVQKHLWPLKDLTLTSNQRYSLVRDKCFLSATECLQKIMTTVDPREKLEVLERTYGEIEGTVSRVLGREYKLPMDDLLPLLIYVVSRARIQHLGAEIHLIRDMMDPNHTGGLYDFLLTALESCYEHIQKEDMRLHRLPGHWHSRELW |
| 666 | sp|Q2XU92|ACBG2\_MOUSE | MTQEKKAEDLERGTDATSAVPRLWSTHCDGEVLLRLSKHGPGHETPMTIPELFQESAERFSAYPALASKNGKKWDTLTFSQYYEMCRKAAKSLIKLGLQRFQCVGILGFNSVEWVVTALGTILAGGLCVGIYATNSAEACQYVIQQANVSILIVENDQQLQKILLIPPDKMETVKAIVQYKLPLMESMANLYSWNDFMELGNDIPNIQLDRVILSQKANQCAVILYTSGTTGTPKGVLLSHDNITWTAGAMSQEMEINRVSGKQNTIVSYLPLSHIAAQLTDIWIPIKIGALTFFAQPDALRGTLVYTLQEVKPTLFMGVPRIWEKMQDTIKENVARSSRLRKKAFAWAKMLGLKVNTKRMLGKRDIPMNYRMAKALVFAKVRTSLGLDNCHAFFSSASPLSQDVSEFFLSLDIPIGEIYGMSECSGPHTVSNKSVYRVLSCGKVLSGCKNMLYNQNKEGVGEVCMWGRHVFMGYLNKEEATLEALDENGWLHSGDIGRLDSHDFLYITGRIKEILITAGGENVSPIPIETLVKEKIPIISHAMLVGDKAKFLCMLLTLKCETDRKSGEPLNKLSVEAKSFCQMLGSQATTVSDILKSRDQVVYTAIQYGIDIVNQQAMSDSHRIRKWIILEKDFSIQGGELGPTSKLKRSVITQKYKAQIDSMYLS |
| 667 | sp|Q8MIB3|ABCG2\_PIG | MSSNSYQVSIPMSKRNTNGLPGSSSNELKTSAGGAVLSFHDICYRVKVKSGFLFCRKTVEKEILTNINGIMKPGLNAILGPTGGGKSSLLDVLAARKDPHGLSGDVLINGAPRPANFKCNSGYVVQDDVVMGTLTVRENLQFSAALRLPTTMTNHEKNERINMVIQELGLDKVADSKVGTQFIRGVSGGERKRTSIAMELITDPSILFLDEPTTGLDSSTANAVLLLLKRMSKQGRTIIFSIHQPRYSIFKLFDSLTLLASGRLMFHGPAREALGYFASIGYNCEPYNNPADFFLDVINGDSSAVVLSRADRDEGAQEPEEPPEKDTPLIDKLAAFYTNSSFFKDTKVELDQFSGGRKKKKSSVYKEVTYTTSFCHQLRWISRRSFKNLLGNPQASVAQIIVTIILGLVIGAIFYDLKNDPSGIQNRAGVLFFLTTNQCFSSVSAVELLVVEKKLFIHEYISGYYRVSSYFFGKLLSDLLPMRMLPSIIFTCITYFLLGLKPAVGSFFIMMFTLMMVAYSASSMALAIAAGQSVVSVATLLMTISFVFMMIFSGLLVNLKTVVPWLSWLQYFSIPRYGFSALQYNEFLGQNFCPGLNVTTNNTCSFAICTGAEYLENQGISLSAWGLWQNHVALACMMVIFLTIAYLKLLLLKKYS |
| 668 | sp|P39010|AKR1\_YEAST | MVNELENVPRASTLTNEEQTVDPSNNDSQEDISLGDSNEITSLASLKAIRSGNEEESGNEQVNHNDEAEEDPLLTRYHTACQRGDLATVKEMIHGKLLEVNNDGDSTEHITGLHWASINNRLSVVDFLVSQGADVNARAGALHATPLHWAARYGYVYIVDFLLKHGADPTMTDDQGFNLLHLSVNSSNIMLVLYVLFNVVSKGLLDIDCRDPKGRTSLLWAAYQGDSLTVAELLKFGASIKIADTEGFTPLHWGTVKGQPHVLKYLIQDGADFFQKTDTGKDCFAIAQEMNTVYSLREALTHSGFDYHGYPIKKWFKKSQHAKLVTFITPFLFLGIAFALFSHINPLFVIIVLFLLAIATNKGLNKFVLPSYGRMGVHNVTLLRSPLLSGVFFGTLLWVTIVWFFKVMPRTFSDEQYTNILMLVILVSVFYLFGQLVIMDPGCLPEETDHENVRQTISNLLEIGKFDTKNFCIETWIRKPLRSKFSPLNNAVVARFDHYCPWIFNDVGLKNHKAFIFFITLMESGIFTFLALCLEYFDELEDAHEDTSQKNGKCFILGASDLCSGLIYDRFVFLILLWALLQSIWVASLIFVQAFQICKGMTNTEFNVLMKESKSIGPDGLSFNENFNTTPEGFAPSIDPGEESNDTVLAPVPGSTIRKPRTCFGVCYAVTGMDQWLAVIKETIGIKDSTGHNVYSITSRIPTNYGWKRNVKDFWLTSDINAPLWRRILYPPSGSKALLNGIEVDYFKLYKLPNKDVEQGNDMV |
| 669 | sp|Q8VHK0|ACOT8\_RAT | MSKPEDLGDANGDADRGDLSGDLRSVLVTSVLNLEPLDEDLYRGRHYWVPTSQRLFGGQIVGQALVAAAKSVSEDVHVHSLHCYFVRAGDPKVPVLYHVERTRTGASFSVRAVKAVQHGKAIFICQASFQQMQPSPLQHQFSMPTVPPPEELLDHEALIDQYLRDPNLHEKYRVGLNRIAAREVPIEIKLVNPPALNQLQTLEPKQMFWVRARGYIGEGDIKMHCCVAAYISDYAFLGTALLPHQSKYKVNFMVSLDHSMWFHAPFRADHWMLYECESPWAGGSRGLVHGRLWRRDGVLAVTCAQEGVIRSKPRVSESKL |
| 670 | sp|H3BCW1|ADPRS\_LATCH | MSAVGRLAAVSLAQVRGALCGALLGDCMGAEFEGSDAVELPDVLEFVRLLEKEKKAGTLFYTDDTAMTRAVIQSLIAKPDFDEVDMAKRFAEEYKKEPTRGYGAGVVQVFKKLLSPKYSDVFQPAREQFDGKGSYGNGGAMRVASIALAYPNIQDVIKFARRSAQLTHASPLGYNGAILQALAVHFALQGELKRDTFLEQLIGEMERIEGGEMSASDAGEHDRPNEVKLPFCSRLKKIKEFLASSNVPKADIVDELGHGIAALESVPTAIYSFLHCMESDPDIPDLYNNLQRTIIYSISLGGDTDTIATMAGAIAGAYYGMDQVTPSWKRSCEAIVETEESAVKLYELYCKQLKTP |
| 671 | sp|Q8N157|AHI1\_HUMAN | MPTAESEAKVKTKVRFEELLKTHSDLMREKKKLKKKLVRSEENISPDTIRSNLHYMKETTSDDPDTIRSNLPHIKETTSDDVSAANTNNLKKSTRVTKNKLRNTQLATENPNGDASVEEDKQGKPNKKVIKTVPQLTTQDLKPETPENKVDSTHQKTHTKPQPGVDHQKSEKANEGREETDLEEDEELMQAYQCHVTEEMAKEIKRKIRKKLKEQLTYFPSDTLFHDDKLSSEKRKKKKEVPVFSKAETSTLTISGDTVEGEQKKESSVRSVSSDSHQDDEISSMEQSTEDSMQDDTKPKPKKTKKKTKAVADNNEDVDGDGVHEITSRDSPVYPKCLLDDDLVLGVYIHRTDRLKSDFMISHPMVKIHVVDEHTGQYVKKDDSGRPVSSYYEKENVDYILPIMTQPYDFKQLKSRLPEWEEQIVFNENFPYLLRGSDESPKVILFFEILDFLSVDEIKNNSEVQNQECGFRKIAWAFLKLLGANGNANINSKLRLQLYYPPTKPRSPLSVVEAFEWWSKCPRNHYPSTLYVTVRGLKVPDCIKPSYRSMMALQEEKGKPVHCERHHESSSVDTEPGLEESKEVIKWKRLPGQACRIPNKHLFSLNAGERGCFCLDFSHNGRILAAACASRDGYPIILYEIPSGRFMRELCGHLNIIYDLSWSKDDHYILTSSSDGTARIWKNEINNTNTFRVLPHPSFVYTAKFHPAVRELVVTGCYDSMIRIWKVEMREDSAILVRQFDVHKSFINSLCFDTEGHHMYSGDCTGVIVVWNTYVKINDLEHSVHHWTINKEIKETEFKGIPISYLEIHPNGKRLLIHTKDSTLRIMDLRILVARKFVGAANYREKIHSTLTPCGTFLFAGSEDGIVYVWNPETGEQVAMYSDLPFKSPIRDISYHPFENMVAFCAFGQNEPILLYIYDFHVAQQEAEMFKRYNGTFPLPGIHQSQDALCTCPKLPHQGSFQIDEFVHTESSSTKMQLVKQRLETVTEVIRSCAAKVNKNLSFTSPPAVSSQQSKLKQSNMLTAQEILHQFGFTQTGIISIERKPCNHQVDTAPTVVALYDYTANRSDELTIHRGDIIRVFFKDNEDWWYGSIGKGQEGYFPANHVASETLYQELPPEIKERSPPLSPEEKTKIEKSPAPQKQSINKNKSQDFRLGSESMTHSEMRKEQSHEDQGHIMDTRMRKNKQAGRKVTLIE |
| 672 | sp|P11230|ACHB\_HUMAN | MTPGALLMLLGALGAPLAPGVRGSEAEGRLREKLFSGYDSSVRPAREVGDRVRVSVGLILAQLISLNEKDEEMSTKVYLDLEWTDYRLSWDPAEHDGIDSLRITAESVWLPDVVLLNNNDGNFDVALDISVVVSSDGSVRWQPPGIYRSSCSIQVTYFPFDWQNCTMVFSSYSYDSSEVSLQTGLGPDGQGHQEIHIHEGTFIENGQWEIIHKPSRLIQPPGDPRGGREGQRQEVIFYLIIRRKPLFYLVNVIAPCILITLLAIFVFYLPPDAGEKMGLSIFALLTLTVFLLLLADKVPETSLSVPIIIKYLMFTMVLVTFSVILSVVVLNLHHRSPHTHQMPLWVRQIFIHKLPLYLRLKRPKPERDLMPEPPHCSSPGSGWGRGTDEYFIRKPPSDFLFPKPNRFQPELSAPDLRRFIDGPNRAVALLPELREVVSSISYIARQLQEQEDHDALKEDWQFVAMVVDRLFLWTFIIFTSVGTLVIFLDATYHLPPPDPFP |
| 673 | sp|P47197|AKT2\_RAT | MNEVSVIKEGWLHKRGEYIKTWRPRYFLLKSDGSFIGYKERPEAPDQTLPPLNNFSVAECQLMKTERPRPNTFVIRCLQWTTVIERTFHVDSPDEREEWIRAIQMVANSLKQRGPGEDAMDYKCGSPSDSSTSEMMEVAVSKARAKVTMNDFDYLKLLGKGTFGKVILVREKATGRYYAMKILRKEVIIAKDEVAHTVTESRVLQNTRHPFLTALKYAFQTHDRLCFVMEYANGGDLFFHLSRERVFTEDRARFYGAEIVSALEYLHSTDVVYRDIKLENLMLDKDGHIKITDFGLSKEGISDGATMKTFCGTPEYLAPEVLEDNDYGRAVDWWGLGVVMYEMMCGRLPFYNQDHERLFELILMEEIRFPRTLGPEAKSLLAGLLKKDPKQRLGGGPSDAKEVMEHRFFLSINWQDVVQKKLLPPFKPQVTSEVDTRYFDDEFTAQSITITPPDRYDSLGSLELDQRTHFPQFSYSASIRE |
| 674 | sp|Q9WTQ5|AKA12\_MOUSE | MGAGSSTEQRSPEQPAESDTPSELELSGHGPAAEASGAAGDPADADPATKLPQKNGQLSAVNGVAEQEDVHVQEESQDGQEEEVTVEDVGQRESEDVKEKDRAKEMAASSTVVEDITKDEQEETPEIIEQIPASESNVEEMAQAAESQANDVGFKKVFKFVGFKFTVKKDKNEKSDTVQLLTVKKDEGEGAEASVGAGDHQEPGVETVGESASKESELKQSTEKQEGTLKQAQSSTEIPLQAESGQGTEEEAAKDGEENREKEPTKPLESPTSPVSNETTSSFKKFFTHGWAGWRKKTSFKKPKEDDLETSEKRKEQEAEKVDEEEGEKTEPAPAEEQEPAEGTDQARLSADYEKVELPLEDQVGDLEALSEKCAPLATEVFDEKTEAHQEVVAEVHVSTVEKMTKGQGGAEVEGDVVVEGSGESLPPEKLAETQEVPQEAEPVEELMKTKEVCVSGGDHTQLTDLSPEEKMLPKHPEGIVSEVEMLSSQERIKVQGSPLKKLFSSSGLKKLSGKKQKGKRGGGGGDEEPGEYQHIQTESPESADEQKGESSASSPEEPEEIACLEKGPSEAPQEAEAEEGATSDGEKKREGITPWASFKKMVTPKKRVRRPSESDKEEELDKVKSATLSSTESTASGMQDEVRAVGEEQRSEEPKRRVDTSVSWEALICVGSSKKRARKASSSDDEGGPRTLGGDGHRAEEASKDKEADALPASTQEQDQAHGSSSPEPAGSPSEGEGVSTWESFKRLVTPRKKSKSKLEERAEDSGAEQLASEIEPSREESWVSIKKFIPGRRKKRADGKQEQAAVEDSGPGEINEDDPDVPAVVPLSEYDAVEREKLEAQRAQENVELPQLKGAVYVSEELSKTLVHTVSVAVIDGTRAVTSAEERSPSWISASMTEPLEHAEGVATPPVGEVTEKDITAEATPALAQTLPGGKDAHDDIVTSEVDFTSEAVTAAETTEALRAEELTEASGAEETTDMVSAVSQLSDSPDTTEEATPVQEVEGGMLDTEEQERQTQAVLQAVADKVKEDSQVPATQTLQRAGPKALEKVEEVEEDSEVLATEKEKDVVPEGPVQEAETEHLAQGSETVQATPESLEVPEVTEDVDRATTCQVIKHQQLMEQAVAPESSETLTDSETNGSTPLADSDTPNGTQQDETVDSQDSNAIAAVKQSQVTEEEAAAAQTEGPSTPSSFPAQEEHREKPGRDVLEPTQALAAGAVPILAKAEVGQEGEAGQFDGEKVKDGQCVKELEVPVHTGPNSQKTADLTRDSEVMEVARCQETESNEEQSISPEKREMGTDVEKEETETKTEQASEEHEQETAAPEHEGTHPKPVLTADMPHSERGKALGSLEGSPSLPDQDKADCIEVQVQSSDTPVTQTTEAVKKVEETVATSEMDESLECAGAQSLPAEKLSETGGYGTLQHGEDTVPQGPESQAESIPIIVTPAPESILHSDLQREVSASQKQRSDEDNKPDAGPDAAGKESAAREKILRAEPEILELESKSNKIVQSVIQTAVDQFARTETAPETHASDLQNQVPVMQADSQGAQQMLDKDESDLQVSPQDGTLSAVAQEGLAVSDSSEGMSKASEMITTLAVESASVKESVEKLPLQCKDEKEHAADGPQHQSLAKAEADASGNLTKESPDTNGPKLTEEGDALKEEMNKAQTEEDDLQEPKGDLTES |
| 675 | sp|Q920A7|AFG31\_MOUSE | MLLRLVGAAGSRALAWPFSKLWRCGGCAGSGGTVWSSVRACGIALQGHLGRCSQQLALQGKLTSFSPRLYSKPPRGFEKFFKNKKNRKSASPGNSVPPKKEPKNAGPGGDGGNRGGKGDDFPWWKRMQKGEFPWDDKDFRSLAVLGAGVAAGFLYFYFRDPGKEITWKHFVQYYLARGLVDRLEVVNKQFVRVIPVPGTTSERFVWFNIGSVDTFERNLESAQWELGIEPTNQAAVVYTTESDGSFLRSLVPTLVLVSILLYAMRRGPMGTGRGGRGGGLFSVGETTAKILKNNIDVRFADVAGCEEAKLEIMEFVNFLKNPKQYQDLGAKIPKGAMLTGPPGTGKTLLAKATAGEANVPFITVNGSEFLEMFVGVGPARVRDMFAMARKHAPCILFIDEIDAIGRKRGRGHLGGQSEQENTLNQMLVEMDGFNSSTNVVVLAGTNRPDILDPALTRPGRFDRQIYIGPPDIKGRSSIFKVHLRPLKLDGSLSKDALSRKLAALTPGFTGADISNVCNEAALIAARHLSPSVQERHFEQAIERVIGGLEKKTQVLQPSEKTTVAYHEAGHAVVGWFLEHADPLLKVSIIPRGKGLGYAQYLPREQFLYTREQLFDRMCMMLGGRVAEQLFFGQITTGAQDDLRKVTQSAYAQIVQFGMSEKLGQVSFDFPRQGETMVEKPYSEATAQLIDEEVRCLVRSAYNRTLELLTQCREQVEKVGRRLLEKEVLEKADMIELLGPRPFAEKSTYEEFVEGTGSLEEDTSLPEGLKDWNKGREEGGTERGLQESPV |
| 676 | sp|O60503|ADCY9\_HUMAN | MASPPHQQLLHHHSTEVSCDSSGDSNSVRVKINPKQLSSNSHPKHCKYSISSSCSSSGDSGGVPRRVGGGGRLRRQKKLPQLFERASSRWWDPKFDSVNLEEACLERCFPQTQRRFRYALFYIGFACLLWSIYFAVHMRSRLIVMVAPALCFLLVCVGFFLFTFTKLYARHYAWTSLALTLLVFALTLAAQFQVLTPVSGRGDSSNLTATARPTDTCLSQVGSFSMCIEVLFLLYTVMHLPLYLSLCLGVAYSVLFETFGYHFRDEACFPSPGAGALHWELLSRGLLHGCIHAIGVHLFVMSQVRSRSTFLKVGQSIMHGKDLEVEKALKERMIHSVMPRIIADDLMKQGDEESENSVKRHATSSPKNRKKKSSIQKAPIAFRPFKMQQIEEVSILFADIVGFTKMSANKSAHALVGLLNDLFGRFDRLCEETKCEKISTLGDCYYCVAGCPEPRADHAYCCIEMGLGMIKAIEQFCQEKKEMVNMRVGVHTGTVLCGILGMRRFKFDVWSNDVNLANLMEQLGVAGKVHISEATAKYLDDRYEMEDGKVIERLGQSVVADQLKGLKTYLISGQRAKESRCSCAEALLSGFEVIDGSQVSSGPRGQGTASSGNVSDLAQTVKTFDNLKTCPSCGITFAPKSEAGAEGGAPQNGCQDEHKNSTKASGGPNPKTQNGLLSPPQEEKLTNSQTSLCEILQEKGRWAGVSLDQSALLPLRFKNIREKTDAHFVDVIKEDSLMKDYFFKPPINQFSLNFLDQELERSYRTSYQEEVIKNSPVKTFASPTFSSLLDVFLSTTVFLTLSTTCFLKYEAATVPPPPAALAVFSAALLLEVLSLAVSIRMVFFLEDVMACTKRLLEWIAGWLPRHCIGAILVSLPALAVYSHVTSEYETNIHFPVFTGSAALIAVVHYCNFCQLSSWMRSSLATVVGAGPLLLLYVSLCPDSSVLTSPLDAVQNFSSERNPCNSSVPRDLRRPASLIGQEVVLVFFLLLLLVWFLNREFEVSYRLHYHGDVEADLHRTKIQSMRDQADWLLRNIIPYHVAEQLKVSQTYSKNHDSGGVIFASIVNFSEFYEENYEGGKECYRVLNELIGDFDELLSKPDYSSIEKIKTIGATYMAASGLNTAQAQDGSHPQEHLQILFEFAKEMMRVVDDFNNNMLWFNFKLRVGFNHGPLTAGVIGTTKLLYDIWGDTVNIASRMDTTGVECRIQVSEESYRVLSKMGYDFDYRGTVNVKGKGQMKTYLYPKCTDHRVIPQHQLSISPDIRVQVDGSIGRSPTDEIANLVPSVQYVDKTSLGSDSSTQAKDAHLSPKRPWKEPVKAEERGRFGKAIEKDDCDETGIEEANELTKLNVSKSV |
| 677 | sp|P0A6D3|AROA\_ECOLI | MESLTLQPIARVDGTINLPGSKSVSNRALLLAALAHGKTVLTNLLDSDDVRHMLNALTALGVSYTLSADRTRCEIIGNGGPLHAEGALELFLGNAGTAMRPLAAALCLGSNDIVLTGEPRMKERPIGHLVDALRLGGAKITYLEQENYPPLRLQGGFTGGNVDVDGSVSSQFLTALLMTAPLAPEDTVIRIKGDLVSKPYIDITLNLMKTFGVEIENQHYQQFVVKGGQSYQSPGTYLVEGDASSASYFLAAAAIKGGTVKVTGIGRNSMQGDIRFADVLEKMGATICWGDDYISCTRGELNAIDMDMNHIPDAAMTIATAALFAKGTTTLRNIYNWRVKETDRLFAMATELRKVGAEVEEGHDYIRITPPEKLNFAEIATYNDHRMAMCFSLVALSDTPVTILDPKCTAKTFPDYFEQLARISQAA |
| 678 | sp|P47176|BCA2\_YEAST | MTLAPLDASKVKITTTQHASKPKPNSELVFGKSFTDHMLTAEWTAEKGWGTPEIKPYQNLSLDPSAVVFHYAFELFEGMKAYRTVDNKITMFRPDMNMKRMNKSAQRICLPTFDPEELITLIGKLIQQDKCLVPEGKGYSLYIRPTLIGTTAGLGVSTPDRALLYVICCPVGPYYKTGFKAVRLEATDYATRAWPGGCGDKKLGANYAPCVLPQLQAASRGYQQNLWLFGPNNNITEVGTMNAFFVFKDSKTGKKELVTAPLDGTILEGVTRDSILNLAKERLEPSEWTISERYFTIGEVTERSKNGELLEAFGSGTAAIVSPIKEIGWKGEQINIPLLPGEQTGPLAKEVAQWINGIQYGETEHGNWSRVVTDLN |
| 679 | sp|Q9ZNN8|BUDC\_CORGT | MSKVAMVTGGAQGIGRGISEKLAADGFDIAVADLPQQEEQAAETIKLIEAADQKAVFVGLDVTDKANFDSAIDEAAEKLGGFDVLVNNAGIAQIKPLLEVTEEDLKQIYSVNVFSVFFGIQAASRKFDELGVKGKIINAASIAAIQGFPILSAYSTTKFAVRGLTQAAAQELAPKGHTVNAYAPGIVGTGMWEQIDAELSKINGKPIGENFKEYSSSIALGRPSVPEDVAGLVSFLASENSNYVTGQVMLVDGGMLYN |
| 680 | sp|A4IGM9|AURKB\_XENTR | MSYKENLNPSSYTSKFATPSSATAAQRVLRKEPYVSTFTTPSDNLLAQRAQLARITPSASSSVPGRVAVSMDASSQNTALAELPKRKFTIDDFDIGRPLGKGKFGNVYLARDKQNKFIMALKVLFKSQLEKEGVEHQLRREIEIQSHLRHPNILRMYNYFHDRKRIYLMLEFAPRGELYKELQKHGRFDEQRSATFMEELADALQYCHERKVIHRDIKPENLLMGYKGELKIADFGWSVHAPSLRRRTMCGTLDYLPPEMIEGKTHDEKVDLWCAGVLCFEFLVGMPPFDSPSHTETHRRIVNVDLKFPPFLSDGSKDLISKLLRYHPPQRLPLKGVMEHPWVKANSRRVLPPVFQSSSK |
| 681 | sp|Q68D86|C102B\_HUMAN | MNLDSIHRLIEETQIFQMQQSSIKSRGDMVAPASPPRDTCNTCFPLHGLQSHAAHNFCAHSYNTNKWDICEELRLRELEEVKARAAQMEKTMRWWSDCTANWREKWSKVRAERNSAREEGRQLRIKLEMAMKELSTLKKKQSLPPQKEALEAKVTQDLKLPGFVEESCEHTDQFQLSSQMHESIREYLVKRQFSTKEDTNNKEQGVVIDSLKLSEEMKPNLDGVDLFNNGGSGNGETKTGLRLKAINLPLENEVTEISALQVHLDEFQKILWKEREMRTALEKEIERLESALSLWKWKYEELKESKPKNVKEFDILLGQHNDEMQELSGNIKEESKSQNSKDRVICELRAELERLQAENTSEWDKREILEREKQGLERENRRLKIQVKEMEELLDKKNRLSANSQSPDFKMSQIDLQEKNQELLNLQHAYYKLNRQYQANIAELTHANNRVDQNEAEVKKLRLRVEELKQGLNQKEDELDDSLNQIRKLQRSLDEEKERNENLETELRHLQNW |
| 682 | sp|P16278|BGAL\_HUMAN | MPGFLVRILPLLLVLLLLGPTRGLRNATQRMFEIDYSRDSFLKDGQPFRYISGSIHYSRVPRFYWKDRLLKMKMAGLNAIQTYVPWNFHEPWPGQYQFSEDHDVEYFLRLAHELGLLVILRPGPYICAEWEMGGLPAWLLEKESILLRSSDPDYLAAVDKWLGVLLPKMKPLLYQNGGPVITVQVENEYGSYFACDFDYLRFLQKRFRHHLGDDVVLFTTDGAHKTFLKCGALQGLYTTVDFGTGSNITDAFLSQRKCEPKGPLINSEFYTGWLDHWGQPHSTIKTEAVASSLYDILARGASVNLYMFIGGTNFAYWNGANSPYAAQPTSYDYDAPLSEAGDLTEKYFALRNIIQKFEKVPEGPIPPSTPKFAYGKVTLEKLKTVGAALDILCPSGPIKSLYPLTFIQVKQHYGFVLYRTTLPQDCSNPAPLSSPLNGVHDRAYVAVDGIPQGVLERNNVITLNITGKAGATLDLLVENMGRVNYGAYINDFKGLVSNLTLSSNILTDWTIFPLDTEDAVRSHLGGWGHRDSGHHDEAWAHNSSNYTLPAFYMGNFSIPSGIPDLPQDTFIQFPGWTKGQVWINGFNLGRYWPARGPQLTLFVPQHILMTSAPNTITVLELEWAPCSSDDPELCAVTFVDRPVIGSSVTYDHPSKPVEKRLMPPPPQKNKDSWLDHV |
| 683 | sp|Q9R016|BIR1E\_MOUSE | MAEHGESSEDRISEIDYEFLPELSALLGVDAFQVAKSQEEEEHKERMKMKKGFNSQMRSEAKRLKTFETYDTFRSWTPQEMAAAGFYHTGVRLGVQCFCCSLILFGNSLRKLPIERHKKLRPECEFLQGKDVGNIGKYDIRVKRPEKMLRGGKARYHEEEARLESFEDWPFYAHGTSPRVLSAAGFVFTGKRDTVQCFSCGGSLGNWEEGDDPWKEHAKWFPKCEFLQSKKSSEEIAQYIQSYEGFVHVTGEHFVKSWVRRELPMVSAYCNDSVFANEELRMDMFKDWPQESPVGVEALVRAGFFYTGKKDIVRCFSCGGCLEKWAEGDDPMEDHIKFFPECVFLQTLKSSAEVIPTLQSQYALPEATETTRESNHGDAAAVHSTVVDLGRSEAQWFQEARSLSEQLRDNYTKATFRHMNLPEVCSSLGTDHLLSCDVSIISKHISQPVQEALTIPEVFSNLNSVMCVEGETGSGKTTFLKRIAFLWASGCCPLLYRFQLVFYLSLSSITPDQGLANIICAQLLGAGGCISEVCLSSSIQQLQHQVLFLLDDYSGLASLPQALHTLITKNYLSRTCLLIAVHTNRVRDIRLYLGTSLEIQEFPFYNTVSVLRKFFSHDIICVEKLIIYFIDNKDLQGVYKTPLFVAAVCTDWIQNASAQDKFQDVTLFQSYMQYLSLKYKATAEPLQATVSSCGQLALTGLFSSCFEFNSDDLAEAGVDEDEKLTTLLMSKFTAQRLRPVYRFLGPLFQEFLAAVRLTELLSSDRQEDQDLGLYYLRQIDSPLKAINSFNIFLYYVSSHSSSKAAPTVVSHLLQLVDEKESLENMSENEDYMKLHPQTFLWFQFVRGLWLVSPESSSSFVSEHLLRLALIFAYESNTVAECSPFILQFLRGKTLALRVLNLQYFRDHPESLLLLRSLKVSINGNKMSSYVDYSFKTYFENLQPPAIDEEYTSAFEHISEWRRNFAQDEEIIKNYENIRPRALPDISEGYWKLSPKPCKIPKLEVQVNNTDAADQALLQVLMEVFSASQSIEFRLFNSSGFLESICPALELSKASVTKCSMSRLELSRAEQELLLTLPALQSLEVSETNQLPEQLFHNLHKFLGLKELCVRLDGKPNVLSVLPREFPNLLHMEKLSIQTSTESDLSKLVKFIQNFPNLHVFHLKCDFLSNCESLMAVLASCKKLREIEFSGRCFEAMTFVNILPNFVSLKILNLKDQQFPDKETSEKFAQALGSLRNLEELLVPTGDGIHQVAKLIVRQCLQLPCLRVLTFHDILDDDSVIEIARAATSGGFQKLENLDISMNHKITEEGYRNFFQALDNLPNLQELNICRNIPGRIQVQATTVKALGQCVSRLPSLIRLHMLSWLLDEEDMKVINDVKERHPQSKRLIIFWKLIVPFSPVILE |
| 684 | sp|O08498|BLAB1\_ELIME | MLKKIKISLILALGLTSLQAFGQENPDVKIEKLKDNLYVYTTYNTFNGTKYAANAVYLVTDKGVVVIDCPWGEDKFKSFTDEIYKKHGKKVIMNIATHSHDDRAGGLEYFGKIGAKTYSTKMTDSILAKENKPRAQYTFDNNKSFKVGKSEFQVYYPGKGHTADNVVVWFPKEKVLVGGCIIKSADSKDLGYIGEAYVNDWTQSVHNIQQKFSGAQYVVAGHDDWKDQRSIQHTLDLINEYQQKQKASN |
| 685 | sp|Q90460|C166A\_DANRE | MHSVICLFGAFIAAALFAPGSCLPTVIGLYGETIEVPCNNGNNKPDGLIFTKWKYAKDDGSPGDLLIKQAQKDDPTVSAMDGYKTRVSIAANSSLLIAQGSLTDQRVFTCMVVSSTNLEEFSVEVKVHKKPSAPVIKNKVKELENGKLTQLGECVVESANPAADLIWMKNNQALVDDGKTIIITSDVTKDPVTGLSSTSSRLQYTARKEDVASQFTCVAKHVTGPNQVSTPDTFQIRYPTEKVSLQVVSQSPIREGDDVTLKCQADGNPPPTSFNFNIKGKKVTVTDKDVYTLTGVTRADSGVYKCSLLDNDVMESTQIVTVSFLDASLTPTGKVLKKLGENLVVSLEKNASSEVKVTWTKDNRKLDKLPDFSQLRYSDAGLYVCDVSIEGIKHSFSFELTVEGGPRITGLTKHRSNDGKHKVLTCEAEGSPKPEVQWSVNGTDDETSYVNGKATYKLTVVPSKNLTVSCLVTNKLGFDTKDISVFSLFEEDKPKPGKNEDGADQAKVIVGVVVGLFLAAALVGLIYWLYIKKTRQGSWKTGEKETGTSEESKKLEENNHKADV |
| 686 | sp|P54687|BCAT1\_HUMAN | MKDCSNGCSAECTGEGGSKEVVGTFKAKDLIVTPATILKEKPDPNNLVFGTVFTDHMLTVEWSSEFGWEKPHIKPLQNLSLHPGSSALHYAVELFEGLKAFRGVDNKIRLFQPNLNMDRMYRSAVRATLPVFDKEELLECIQQLVKLDQEWVPYSTSASLYIRPTFIGTEPSLGVKKPTKALLFVLLSPVGPYFSSGTFNPVSLWANPKYVRAWKGGTGDCKMGGNYGSSLFAQCEAVDNGCQQVLWLYGEDHQITEVGTMNLFLYWINEDGEEELATPPLDGIILPGVTRRCILDLAHQWGEFKVSERYLTMDDLTTALEGNRVREMFGSGTACVVCPVSDILYKGETIHIPTMENGPKLASRILSKLTDIQYGREESDWTIVLS |
| 687 | sp|Q5CCK3|C90B2\_ORYSJ | MAAMMASITSELLFFLPFILLALLTFYTTTVAKCHGGHWWRGGTTPAKRKRMNLPPGAAGWPLVGETFGYLRAHPATSVGRFMEQHIARYGKIYRSSLFGERTVVSADAGLNRYILQNEGRLFECSYPRSIGGILGKWSMLVLVGDPHREMRAISLNFLSSVRLRAVLLPEVERHTLLVLRAWPPSSTFSAQHQAKKFTFNLMAKNIMSMDPGEEETERLRREYITFMKGVVSAPLNLPGTPYWKALKSRAAILGVIERKMEERVEKLSKEDASVEQDDLLGWALKQSNLSKEQILDLLLSLLFAGHETSSMALALAIFFLEGCPKAVQELREEHLGIARRQRLRGECKLSWEDYKEMVFTQCVINETLRLGNVVRFLHRKVIKDVHYKGYDIPSGWKILPVLAAVHLDSSLYEDPQRFNPWRWKSSGSSGGLAQSSSFMPYGGGTRLCAGSELAKLEMAVFLHHLVLNFRWELAEPDQAFVFPFVDFPKGLPIRVHRIAQDDEQE |
| 688 | sp|P07384|CAN1\_HUMAN | MSEEIITPVYCTGVSAQVQKQRARELGLGRHENAIKYLGQDYEQLRVRCLQSGTLFRDEAFPPVPQSLGYKDLGPNSSKTYGIKWKRPTELLSNPQFIVDGATRTDICQGALGDCWLLAAIASLTLNDTLLHRVVPHGQSFQNGYAGIFHFQLWQFGEWVDVVVDDLLPIKDGKLVFVHSAEGNEFWSALLEKAYAKVNGSYEALSGGSTSEGFEDFTGGVTEWYELRKAPSDLYQIILKALERGSLLGCSIDISSVLDMEAITFKKLVKGHAYSVTGAKQVNYRGQVVSLIRMRNPWGEVEWTGAWSDSSSEWNNVDPYERDQLRVKMEDGEFWMSFRDFMREFTRLEICNLTPDALKSRTIRKWNTTLYEGTWRRGSTAGGCRNYPATFWVNPQFKIRLDETDDPDDYGDRESGCSFVLALMQKHRRRERRFGRDMETIGFAVYEVPPELVGQPAVHLKRDFFLANASRARSEQFINLREVSTRFRLPPGEYVVVPSTFEPNKEGDFVLRFFSEKSAGTVELDDQIQANLPDEQVLSEEEIDENFKALFRQLAGEDMEISVKELRTILNRIISKHKDLRTKGFSLESCRSMVNLMDRDGNGKLGLVEFNILWNRIRNYLSIFRKFDLDKSGSMSAYEMRMAIESAGFKLNKKLYELIITRYSEPDLAVDFDNFVCCLVRLETMFRFFKTLDTDLDGVVTFDLFKWLQLTMFA |
| 689 | sp|P00915|CAH1\_HUMAN | MASPDWGYDDKNGPEQWSKLYPIANGNNQSPVDIKTSETKHDTSLKPISVSYNPATAKEIINVGHSFHVNFEDNDNRSVLKGGPFSDSYRLFQFHFHWGSTNEHGSEHTVDGVKYSAELHVAHWNSAKYSSLAEAASKADGLAVIGVLMKVGEANPKLQKVLDALQAIKTKGKRAPFTNFDPSTLLPSSLDFWTYPGSLTHPPLYESVTWIICKESISVSSEQLAQFRSLLSNVEGDNAVPMQHNNRPTQPLKGRTVRASF |
| 690 | sp|P07630|CAH2\_CHICK | MSHHWGYDSHNGPAHWHEHFPIANGERQSPIAISTKAARYDPALKPLSFSYDAGTAKAIVNNGHSFNVEFDDSSDKSVLQGGALDGVYRLVQFHIHWGSCEGQGSEHTVDGVKYDAELHIVHWNVKYGKFAEALKHPDGLAVVGIFMKVGNAKPEIQKVVDALNSIQTKGKQASFTNFDPTGLLPPCRDYWTYPGSLTTPPLHECVIWHVLKEPITVSSEQMCKLRGLCFSAENEPVCRMVDNWRPCQPLKSREVRASFQ |
| 691 | sp|P63098|CANB1\_HUMAN | MGNEASYPLEMCSHFDADEIKRLGKRFKKLDLDNSGSLSVEEFMSLPELQQNPLVQRVIDIFDTDGNGEVDFKEFIEGVSQFSVKGDKEQKLRFAFRIYDMDKDGYISNGELFQVLKMMVGNNLKDTQLQQIVDKTIINADKDGDGRISFEEFCAVVGGLDIHKKMVVDV |
| 692 | sp|P13994|CC130\_HUMAN | MGERKGVNKYYPPDFNPEKHGSLNRYHNSHPLRERARKLSQGILIIRFEMPYNIWCDGCKNHIGMGVRYNAEKKKVGNYYTTPIYRFRMKCHLCVNYIEMQTDPANCDYVIVSGAQRKEERWDMADNEQVLTTEHEKKQKLETDAMFRLEHGEADRSTLKKALPTLSHIQEAQSAWKDDFALNSMLRRRFREKKKAIQEEEERDQALQAKASLTIPLVPETEDDRKLAALLKFHTLDSYEDKQKLKRTEIISRSWFPSAPGSASSSKVSGVLKKLAQSRRTALATSPITVGDLGIVRRRSRDVPESPQHAADTPKSGEPRVPEEAAQDRPMSPGDCPPETTETPKCSSPRGQEGSRQDKPLSPAGSSQEAADTPDTRHPCSLGSSLVADYSDSESE |
| 693 | sp|Q5RCU5|CBR1\_PONAB | MSSGMHVALVTGGNKGIGLAIVRDLCRLFSGDVVLTARDVARGQAAVQQLQAEGLSPRFHQLDIDDLQSIRALRDFLRKEYGGLDVLVNNAGIAFKVADPTPFHIQAEVTMKTNFFGTRDVCTELLPLIKPQGRVVNVSSIMSVRALKSCSPELQQKFRSETITEEELVGLMNKFVEDTKKGVHQKEGWPSSAYGVTKIGVTVLSRIHARKLSEQRKGDRILLNACCPGWVRTDMAGPKATKSPEEGAETPVYLALLPPDAEGPHGQFVSEKRVEQW |
| 694 | sp|P43368|CAN3\_PIG | MPTVISASMAPRTGASQVPRTMPQAAQGKGTEAGVGNPGGKYSAIISRNFPIIGVKEKTFEQLHKKCLEKKVLYLDPEFPPDETSLFYSQKFPIQFVWKRPPEICENPRFIIGGANRTDICQGDLGDCWFLAAIACLTLNKRLLFRVIPHDQSFTENYAGIFHFQFWRYGDWVDVVIDDCLPTYNNQLVFTKSNHRNEFWSALLEKAYAKLHGSYEALKGGNTTEAMEDFTGGVTEFFEIKDAPRDMYKIMKKAIERGSLMGCSIDDGTNMTYGTSPSGLKMGDLIARMVRNMDESRLRDSDLIPEGCSDDRPTRTIVPVQFETRMACGLVKGHAYSVTGLEEALFKGEKVKLVRLRNPWGQVEWNGSWSDSWKDWSFVDKDEKARLQHQVTEDGEFWMSYDDFIYHFTKLEICNLTADALESDKLQTWTVSVNEGRWVRGCSAGGCRNFPDTFWTNPQYRLKLLEEDDDPDDSEVICSFLVALMQKNRRKDRKLGANLFTIGFAIYEVPKEMHGNKQHLQKDFFLYNASKARSRTYINMREVSERFRLPPSEYVIVPSTYEPHQEGEFILRVFSEKRNLSEEVENTISVDRPVRKKKTKPIIFVSDRANSNKELGVDQESEEGQDKTSPDKQEKSPKPEPSNTDQESEEQQQFRNIFRQIAGDDMEICADELKNVLNRVVNKHKDLKTEGFTLESCRSMIALMDTDGSGRLNLQEFHHLWKKIKSWQKIFKHYDTDQSGTINSYEMRNAVNDAGFHLNNQLYDIITMRYADKYMNIDFDSFICCFVRLEGMFRAFNAFDKDGDGIIKLNVLEWLQLTMYA |
| 695 | sp|P26747|CAPSD\_BPP22 | MALNEGQIVTLAVDEIIETISAITPMAQKAKKYTPPAASMQRSSNTIWMPVEQESPTQEGWDLTDKATGLLELNVAVNMGEPDNDFFQLRADDLRDETAYRRRIQSAARKLANNVELKVANMAAEMGSLVITSPDAIGTNTADAWNFVADAEEIMFSRELNRDMGTSYFFNPQDYKKAGYDLTKRDIFGRIPEEAYRDGTIQRQVAGFDDVLRSPKLPVLTKSTATGITVSGAQSFKPVAWQLDNDGNKVNVDNRFATVTLSATTGMKRGDKISFAGVKFLGQMAKNVLAQDATFSVVRVVDGTHVEITPKPVALDDVSLSPEQRAYANVNTSLADAMAVNILNVKDARTNVFWADDAIRIVSQPIPANHELFAGMKTTSFSIPDVGLNGIFATQGDISTLSGLCRIALWYGVNATRPEAIGVGLPGQTA |
| 696 | sp|P31944|CASPE\_HUMAN | MSNPRSLEEEKYDMSGARLALILCVTKAREGSEEDLDALEHMFRQLRFESTMKRDPTAEQFQEELEKFQQAIDSREDPVSCAFVVLMAHGREGFLKGEDGEMVKLENLFEALNNKNCQALRAKPKVYIIQACRGEQRDPGETVGGDEIVMVIKDSPQTIPTYTDALHVYSTVEGYIAYRHDQKGSCFIQTLVDVFTKRKGHILELLTEVTRRMAEAELVQEGKARKTNPEIQSTLRKRLYLQ |
| 697 | sp|Q9HC52|CBX8\_HUMAN | MELSAVGERVFAAEALLKRRIRKGRMEYLVKWKGWSQKYSTWEPEENILDARLLAAFEEREREMELYGPKKRGPKPKTFLLKAQAKAKAKTYEFRSDSARGIRIPYPGRSPQDLASTSRAREGLRNMGLSPPASSTSTSSTCRAEAPRDRDRDRDRDRERDRERERERERERERERERERGTSRVDDKPSSPGDSSKKRGPKPRKELPDPSQRPLGEPSAGLGEYLKGRKLDDTPSGAGKFPAGHSVIQLARRQDSDLVQCGVTSPSSAEATGKLAVDTFPARVIKHRAAFLEAKGQGALDPNGTRVRHGSGPPSSGGGLYRDMGAQGGRPSLIARIPVARILGDPEEESWSPSLTNLEKVVVTDVTSNFLTVTIKESNTDQGFFKEKR |
| 698 | sp|Q9Y3M2|CBY1\_HUMAN | MPFFGNTFSPKKTPPRKSASLSNLHSLDRSTREVELGLEYGSPTMNLAGQSLKFENGQWIAETGVSGGVDRREVQRLRRRNQQLEEENNLLRLKVDILLDMLSESTAESHLMEKELDELRISRKRK |
| 699 | sp|P43166|CAH7\_HUMAN | MTGHHGWGYGQDDGPSHWHKLYPIAQGDRQSPINIISSQAVYSPSLQPLELSYEACMSLSITNNGHSVQVDFNDSDDRTVVTGGPLEGPYRLKQFHFHWGKKHDVGSEHTVDGKSFPSELHLVHWNAKKYSTFGEAASAPDGLAVVGVFLETGDEHPSMNRLTDALYMVRFKGTKAQFSCFNPKCLLPASRHYWTYPGSLTTPPLSESVTWIVLREPICISERQMGKFRSLLFTSEDDERIHMVNNFRPPQPLKGRVVKASFRA |
| 700 | sp|P80098|CCL7\_HUMAN | MKASAALLCLLLTAAAFSPQGLAQPVGINTSTTCCYRFINKKIPKQRLESYRRTTSSHCPREAVIFKTKLDKEICADPTQKWVQDFMKHLDKKTQTPKL |
| 701 | sp|P79621|C2TA\_MOUSE | MNHFQAILAQVQTLLSSQKPRQVRALLDGLLEEELLSREYHCALLHEPDGDALARKISLTLLEKGDLDLTFLSWVCNSLQAPTVERGTSYRDHGDHSLCATMDLGSPEGSYLELLNSDADPLHLYHLYDQMDLAGEEEIELSSEPDTDTINCDQFSKLLQDMELDEETREAYANIAELDQYVFQDTQLEGLSKDLFIEHIGAEEGFGENIEIPVEAGQKPQKRRFPEEHAMDSKHRKLVPTSRTSLNYLDLPTGHIQIFTTLPQGLWQISGAGTGLSSVLIYHGEMPQVNQVLPSSSLSIPSLPESPDRPGSTSPFTPSAADLPSMPEPALTSRVNETEDTSPSPCQEGPESSIKLPKWPEAVERFQHSLQDKYKALPQSPRGPLVAVELVRARLERGSNKSQERELATPDWTERQLAHGGLAEVLQVVSDCRRPGETQVVAVLGKAGQGKSHWARTVSHTWACGQLLQYDFVFYVPCHCLDRPGDTYHLRDLLCPPSLQPLAMDDEVLDYIVRQPDRVLLILDAFEELEAQDGLLHGPCGSLSPEPCSLRGLLAGIFQRKLLRGCTLLLTARPRGRLAQSLSKADAIFEVPSFSTKQAKTYMRHYFENSGTAGNQDKALGLLEGQPLLCSYSHSPVVCRAVCQLSKALLEQGTEAQLPCTLTGLYVSLLGPAAQNSPPGALVELAKLAWELGRRHQSTLQETRFSSVEVKTWAVTQGLMQQTLETTEAQLAFSSFLLQCFLGAVWLAQCNEIKDKELPQYLALTPRKKRPYDNWLEGVPRFLAGLVFQPRAHCLGALVEPAVAAVADRKQKVLTRYLKRLKLGTLRAGRLLELLHCAHETQQPGIWEHVAHQLPGHLSFLGTRLTPPDVYVLGRALETASQDFSLDLRQTGVEPSGLGNLVGLSCVTSFRASLSDTMALWESLQQQGEAQLLQAAEEKFTIEPFKAKSPKDVEDLDRLVQTQRLRNPSEDAAKDLPAIRDLKKLEFALGPILGPQAFPTLAKILPAFSSLQHLDLDSLSENKIGDKGVSKLSATFPQLKALETLNLSQNNITDVGACKLAEALPALAKSLLRLSLYNNCICDKGAKSLAQVLPDMVSLRVMDVQFNKFTAAGAQQLASSLQKCPQVETLAMWTPTIPFGVQEHLQQLDARISLR |
| 702 | sp|O09161|CASQ2\_MOUSE | MKRIYLLMVGVYLLSLSGAEEGLNFPTYDGKDRVVSLSEKNLKQMLKRYDLLCLYYHEPVSSDKVSQKQFQLKEIVLELVAQVLEHKNIGFVMVDSRKEAKLAKRLGFSEEGSLYVLKGDRTIEFDGEFAADVLVEFLLDLIEDPVEIVNNKLEVQAFERIEDQTKLLGFFKNEDSEYYKAFQEAAEHFQPYIKFFATFDKAVAKKLSLKMNEVGFYEPFMDEPNVIPNKPYTEEELVEFVKEHQRPTLRRLRPEDMFETWEDDLNGIHIVAFAEKSDPDGYEFLEILKQVARDNTDNPDLSILWIDPDDFPLLVAYWEKTFKIDLFKPQIGVVNVTDADSIWMEIPDDDDLPTAEELEDWIEDVLSGKINTEDDDNEDEDDDGDDNDDDDDDDDDNDNSDEDNEDSDDDDDDDE |
| 703 | sp|P30429|CED4\_CAEEL | MLCEIECRALSTAHTRLIHDFEPRDALTYLEGKNIFTEDHSELISKMSTRLERIANFLRIYRRQASELGPLIDFFNYNNQSHLADFLEDYIDFAINEPDLLRPVVIAPQFSRQMLDRKLLLGNVPKQMTCYIREYHVDRVIKKLDEMCDLDSFFLFLHGRAGSGKSVIASQALSKSDQLIGINYDSIVWLKDSGTAPKSTFDLFTDILLMLARVVSDTDDSHSITDFINRVLSRSEDDLLNFPSVEHVTSVVLKRMICNALIDRPNTLFVFDDVVQEETIRWAQELRLRCLVTTRDVEISNAASQTCEFIEVTSLEIDECYDFLEAYGMPMPVGEKEEDVLNKTIELSSGNPATLMMFFKSCEPKTFEKMAQLNNKLESRGLVGVECITPYSYKSLAMALQRCVEVLSDEDRSALAFAVVMPPGVDIPVKLWSCVIPVDICSNEEEQLDDEVADRLKRLSKRGALLSGKRMPVLTFKIDHIIHMFLKHVVDAQTIANGISILEQRLLEIGNNNVSVPERHIPSHFQKFRRSSASEMYPKTTEETVIRPEDFPKFMQLHQKFYDSLKNFACC |
| 704 | sp|P08603|CFAH\_HUMAN | MRLLAKIICLMLWAICVAEDCNELPPRRNTEILTGSWSDQTYPEGTQAIYKCRPGYRSLGNVIMVCRKGEWVALNPLRKCQKRPCGHPGDTPFGTFTLTGGNVFEYGVKAVYTCNEGYQLLGEINYRECDTDGWTNDIPICEVVKCLPVTAPENGKIVSSAMEPDREYHFGQAVRFVCNSGYKIEGDEEMHCSDDGFWSKEKPKCVEISCKSPDVINGSPISQKIIYKENERFQYKCNMGYEYSERGDAVCTESGWRPLPSCEEKSCDNPYIPNGDYSPLRIKHRTGDEITYQCRNGFYPATRGNTAKCTSTGWIPAPRCTLKPCDYPDIKHGGLYHENMRRPYFPVAVGKYYSYYCDEHFETPSGSYWDHIHCTQDGWSPAVPCLRKCYFPYLENGYNQNYGRKFVQGKSIDVACHPGYALPKAQTTVTCMENGWSPTPRCIRVKTCSKSSIDIENGFISESQYTYALKEKAKYQCKLGYVTADGETSGSITCGKDGWSAQPTCIKSCDIPVFMNARTKNDFTWFKLNDTLDYECHDGYESNTGSTTGSIVCGYNGWSDLPICYERECELPKIDVHLVPDRKKDQYKVGEVLKFSCKPGFTIVGPNSVQCYHFGLSPDLPICKEQVQSCGPPPELLNGNVKEKTKEEYGHSEVVEYYCNPRFLMKGPNKIQCVDGEWTTLPVCIVEESTCGDIPELEHGWAQLSSPPYYYGDSVEFNCSESFTMIGHRSITCIHGVWTQLPQCVAIDKLKKCKSSNLIILEEHLKNKKEFDHNSNIRYRCRGKEGWIHTVCINGRWDPEVNCSMAQIQLCPPPPQIPNSHNMTTTLNYRDGEKVSVLCQENYLIQEGEEITCKDGRWQSIPLCVEKIPCSQPPQIEHGTINSSRSSQESYAHGTKLSYTCEGGFRISEENETTCYMGKWSSPPQCEGLPCKSPPEISHGVVAHMSDSYQYGEEVTYKCFEGFGIDGPAIAKCLGEKWSHPPSCIKTDCLSLPSFENAIPMGEKKDVYKAGEQVTYTCATYYKMDGASNVTCINSRWTGRPTCRDTSCVNPPTVQNAYIVSRQMSKYPSGERVRYQCRSPYEMFGDEEVMCLNGNWTEPPQCKDSTGKCGPPPPIDNGDITSFPLSVYAPASSVEYQCQNLYQLEGNKRITCRNGQWSEPPKCLHPCVISREIMENYNIALRWTAKQKLYSRTGESVEFVCKRGYRLSSRSHTLRTTCWDGKLEYPTCAKR |
| 705 | sp|Q3B724|CALS5\_ARATH | MAQSSTSHDSGPQGLMRRPSRSAATTVSIEVFDHEVVPASLGTIAPILRVAAEIEHERPRVAYLCRFYAFEKAHRLDPSSGGRGVRQFKTLLFQRLERDNASSLASRVKKTDGREVESFYQQYYEHYVRALDQGDQADRAQLGKAYQTAGVLFEVLMAVNKSEKVEAVAPEIIAAARDVQEKNEIYAPYNILPLDSAGASQSVMQLEEVKAAVAALGNTRGLNWPSGFEQHRKKTGNLDLLDWLRAMFGFQRDNVRNQREHLVCLFADNHIRLTPKPEPLNKLDDRAVDTVMSKLFKNYKNWCKFLGRKHSLRLPQAAQDIQQRKILYMGLYLLIWGEAANIRFMPECLCYIFHNMAYELHGLLAGNVSIVTGENIKPSYGGDDEAFLRKVITPIYRVVQTEANKNANGKAAHSDWSNYDDLNEYFWTPDCFSLGWPMRDDGDLFKSTRDTTQGKKGSFRKAGRTGKSNFTETRTFWHIYHSFDRLWTFYLLALQAMIILAFERVELREILRKDVLYALSSIFITAAFLRFLQSVLDVILNFPGFHRWKFTDVLRNILKIVVSLAWCVVLPLCYAQSVSFAPGKLKQWLSFLPQVKGVPPLYIMAVALYLLPNVLAAIMFIFPMLRRWIENSDWHIFRLLLWWSQPRIYVGRGMHESQIALIKYTIFWLLLFCCKFAFSYFLQVKLLVKPTNAIMSIRHVKYKWHEFFPNAEHNYGAVVSLWLPVILVYFMDTQIWYAIFSTICGGVIGAFDRLGEIRTLGMLRSRFQSLPGAFNTYLVPSDKTRRRGFSLSKRFAEVTAARRTEAAKFSQLWNEIISSFREEDLISDREMDLLLVPYTSDPSLKLIQWPPFLLASKIPIALDMAAQFRTRDSDLWKRICADEYMKCAVIECYESFKHVLHTLVIGENEKRIIGIIIKEVESNISKNSFLSNFRMAPLPALCSKFVELVGILKNADPAKRDTVVLLLQDMLEVVTRDMMQNENRELVELGHTNKESGRQLFAGTDAKPAILFPPVATAQWHEQISRLHLLLTVKESAMDVPTNLEAQRRIAFFTNSLFMDMPRAPRVRNMLSFSVLTPYYSEETVYSKNDLEMENEDGVSVVYYLQKIFPDEWTNFLERLDCKDETSVLESEENILQLRHWVSLRGQTLFRTVRGMMYYRRALKLQAFLDMANETEILAGYKAISEPTEEDKKSQRSLYTQLEAVADLKFTYVATCQNYGNQKRSGDRRATDILNLMVNNPSLRVAYIDEVEEREGGKVQKVFYSVLIKAVDNLDQEIYRIKLPGPAKIGEGKPENQNHALIFTRGEALQAIDMNQDHYLEEALKMRNLLEEFNEDHGVRAPTILGFREHIFTGSVSSLAWFMSNQETSFVTIGQRVLASPLKVRFHYGHPDVFDRIFHITRGGISKASRGINLSEDIFAGFNSTLRRGNVTHHEYIQVGKGRDVGLNQISLFEAKVACGNGEQTLSRDLYRLGHRFDFFRMMSCYFTTVGFYISSMIVVLTVYAFLYGRLYLSLSGVEEAIVKFAAAKGDSSLKAAMASQSVVQLGLLMTLPMVMEIGLERGFRTALSDLIIMQLQLAPVFFTFSLGTKVHYYGRTILHGGSKYRATGRGFVVKHEKFAENYRMYSRSHFVKGMELMVLLICYRIYGKAAEDSVGYALVMGSTWFLVGSWLFAPFFFNPSGFEWQKIVDDWDDWNKWISSRGGIGVPANKSWESWWEEEQEHLLHSGFFGKFWEIFLSLRYFIYQYGIVYQLNLTKESRMGKQHSIIVYGLSWLVIVAVMIVLKIVSMGRKKFSADFQLMFRLLKLFLFIGSVVIVGMLFHFLKLTVGDIMQSLLAFLPTGWALLQISQVARPLMKTVGMWGSVKALARGYEYIMGVVIFMPVTVLAWFPFVSEFQTRLLFNQAFSRGLQIQRILAGGKKQK |
| 706 | sp|O04153|CALR3\_ARATH | MGLPQNKLSFFCFFFLVSVLTLAPLAFSEIFLEEHFEGGWKSRWVLSDWKRNEGKAGTFKHTAGKWPGDPDNKGIQTYNDAKHYAISAKIPEFSNKNRTLVVQYSVKIEQDIECGGAYIKLLSGYVNQKQFGGDTPYSLMFGPDICGTQTKKLHVIVSYQGQNYPIKKDLQCETDKLNHFYTFILRPDASYSVLVDNKEREFGSMYTDWDILPPRKIKVKNAKKPEDWDDREYIDDPNDVKPEGFDSIPREIPDRKAKEPEDWDEEENGLWEPPKIPNSAYKGPWKAKRIKNPNYKGKWKNPWIDNPEFEDDPDLYVLKSIKYAGIEVWQVKAGSIFDNILICDDPAYARSIVDDYFAQHRESEKELFAEAEKERKAREDEEARIAREEGERRRKERDHRYGDRRRRYKRPNPRDYMDDYHDEL |
| 707 | sp|A0Q5Y3|CAS9\_FRATN | MNFKILPIAIDLGVKNTGVFSAFYQKGTSLERLDNKNGKVYELSKDSYTLLMNNRTARRHQRRGIDRKQLVKRLFKLIWTEQLNLEWDKDTQQAISFLFNRRGFSFITDGYSPEYLNIVPEQVKAILMDIFDDYNGEDDLDSYLKLATEQESKISEIYNKLMQKILEFKLMKLCTDIKDDKVSTKTLKEITSYEFELLADYLANYSESLKTQKFSYTDKQGNLKELSYYHHDKYNIQEFLKRHATINDRILDTLLTDDLDIWNFNFEKFDFDKNEEKLQNQEDKDHIQAHLHHFVFAVNKIKSEMASGGRHRSQYFQEITNVLDENNHQEGYLKNFCENLHNKKYSNLSVKNLVNLIGNLSNLELKPLRKYFNDKIHAKADHWDEQKFTETYCHWILGEWRVGVKDQDKKDGAKYSYKDLCNELKQKVTKAGLVDFLLELDPCRTIPPYLDNNNRKPPKCQSLILNPKFLDNQYPNWQQYLQELKKLQSIQNYLDSFETDLKVLKSSKDQPYFVEYKSSNQQIASGQRDYKDLDARILQFIFDRVKASDELLLNEIYFQAKKLKQKASSELEKLESSKKLDEVIANSQLSQILKSQHTNGIFEQGTFLHLVCKYYKQRQRARDSRLYIMPEYRYDKKLHKYNNTGRFDDDNQLLTYCNHKPRQKRYQLLNDLAGVLQVSPNFLKDKIGSDDDLFISKWLVEHIRGFKKACEDSLKIQKDNRGLLNHKINIARNTKGKCEKEIFNLICKIEGSEDKKGNYKHGLAYELGVLLFGEPNEASKPEFDRKIKKFNSIYSFAQIQQIAFAERKGNANTCAVCSADNAHRMQQIKITEPVEDNKDKIILSAKAQRLPAIPTRIVDGAVKKMATILAKNIVDDNWQNIKQVLSAKHQLHIPIITESNAFEFEPALADVKGKSLKDRRKKALERISPENIFKDKNNRIKEFAKGISAYSGANLTDGDFDGAKEELDHIIPRSHKKYGTLNDEANLICVTRGDNKNKGNRIFCLRDLADNYKLKQFETTDDLEIEKKIADTIWDANKKDFKFGNYRSFINLTPQEQKAFRHALFLADENPIKQAVIRAINNRNRTFVNGTQRYFAEVLANNIYLRAKKENLNTDKISFDYFGIPTIGNGRGIAEIRQLYEKVDSDIQAYAKGDKPQASYSHLIDAMLAFCIAADEHRNDGSIGLEIDKNYSLYPLDKNTGEVFTKDIFSQIKITDNEFSDKKLVRKKAIEGFNTHRQMTRDGIYAENYLPILIHKELNEVRKGYTWKNSEEIKIFKGKKYDIQQLNNLVYCLKFVDKPISIDIQISTLEELRNILTTNNIAATAEYYYINLKTQKLHEYYIENYNTALGYKKYSKEMEFLRSLAYRSERVKIKSIDDVKQVLDKDSNFIIGKITLPFKKEWQRLYREWQNTTIKDDYEFLKSFFNVKSITKLHKKVRKDFSLPISTNEGKFLVKRKTWDNNFIYQILNDSDSRADGTKPFIPAFDISKNEIVEAIIDSFTSKNIFWLPKNIELQKVDNKNIFAIDTSKWFEVETPSDLRDIGIATIQYKIDNNSRPKVRVKLDYVIDDDSKINYFMNHSLLKSRYPDKVLEILKQSTIIEFESSGFNKTIKEMLGMKLAGIYNETSNN |
| 708 | sp|P00786|CATH\_RAT | MWTALPLLCAGAWLLSAGATAELTVNAIEKFHFTSWMKQHQKTYSSREYSHRLQVFANNWRKIQAHNQRNHTFKMGLNQFSDMSFAEIKHKYLWSEPQNCSATKSNYLRGTGPYPSSMDWRKKGNVVSPVKNQGACGSCWTFSTTGALESAVAIASGKMMTLAEQQLVDCAQNFNNHGCQGGLPSQAFEYILYNKGIMGEDSYPYIGKNGQCKFNPEKAVAFVKNVVNITLNDEAAMVEAVALYNPVSFAFEVTEDFMMYKSGVYSSNSCHKTPDKVNHAVLAVGYGEQNGLLYWIVKNSWGSNWGNNGYFLIERGKNMCGLAACASYPIPQV |
| 709 | sp|F4J9M5|CHR12\_ARATH | MVAQQLQERCGGTSQEDPVETTKSLICALNYISRDLPLPPHLFTAVSSIYHGASSSSLSDSDVSPPLPTSPPANKAPYGADLMGEFEDALLKQRPDCESGSRLIQLLDNRNKSHIQRRLSELEELPSTRGEDLQAKCLLELYGLKLRELQGKVRTAVSSEFWLRLNCADVSSQVFDWGMMRLPRPFYGVGDPFAMEADDQFRKKRDAERLSRLEEEEKNLIETAKRKFFAEVLNAVREFQLQIQATQKRRRQRNDGVQAWHGRQRQRATRAEKLRLMALKSDDQEAYMKLVKESKNERLTTLLEETNKLLANLGAAVQRQKDAKLPEGIDLLKDSESDLSELDAPRSEPLQDLLPDQDIDITESDNNDDSNDLLEGQRQYNSAIHSIQEKVTEQPSLLEGGELRSYQLEGLQWMVSLFNNNLNGILADEMGLGKTIQTISLIAYLLENKGVPGPYLIVAPKAVLPNWVNEFATWVPSIAAFLYDGRLEERKAIREKIAGEGKFNVLITHYDLIMRDKAFLKKIEWYYMIVDEGHRLKNHESALAKTLLTGYRIKRRLLLTGTPIQNSLQELWSLLNFLLPHIFNSVQNFEEWFNAPFADRGNVSLTDEEELLIIHRLHHVIRPFILRRKKDEVEKFLPGKTQVILKCDMSAWQKVYYKQVTDMGRVGLQTGSGKSKSLQNLTMQLRKCCNHPYLFVGGDYNMWKKPEIVRASGKFELLDRLLPKLRKAGHRILLFSQMTRLIDVLEIYLTLNDYKYLRLDGTTKTDQRGLLLKQFNEPDSPYFMFLLSTRAGGLGLNLQTADTVIIFDSDWNPQMDQQAEDRAHRIGQKKEVRVFVLVSVGSVEEVILERAKQKMGIDAKVIQAGLFNTTSTAQDRREMLEEIMRKGTSSLGTDVPSEREINRLAARSEDEFWMFERMDEERRRKENYRARLMQEQEVPEWAYTTQTQEEKLNNGKFHFGSVTGKRKRKEIVYSDTLSELQWLKAVESGEDLSKLSMRYNRREENASNTKTSTSKKVIESIQTVSDGTSEEDEEEQEEERAKEMSGKQRVDKSEEEEEEGEEENDGKAIFKWNTHKKKRSRYSFTCSSSDSRAQSSNGSRRK |
| 710 | sp|Q5NTA4|CHI4\_CRYJA | MQIMATQNSKSNIFWSSSASVVLVLLLLVDVGVCQNCGCNGLCCSQYGYCGSGEAYCGAGCKEGPCSSSSPPSTGTGVGSIVSSDVFNSIVGGAASGCAGNGFYTYDSFISAANAFNGFGTSGSSDVNKREIAAFFANAAHETGGFCYIEEQNPTSIYCDASNTQYPCASGKTYHGRGPLQLSWNYNYGAAGSYIQFDGLNNPEIVGTDSTISFKTAVWFWMVNSNCHTAITSGQGFGATIRAINSMECDGGNAATVASRVNYYQKFCQQLNVDTGSNLQC |
| 711 | sp|P18418|CALR\_RAT | MLLSVPLLLGLLGLAAADPAIYFKEQFLDGDAWTNRWVESKHKSDFGKFVLSSGKFYGDQEKDKGLQTSQDARFYALSARFEPFSNKGQTLVVQFTVKHEQNIDCGGGYVKLFPGGLDQKDMHGDSEYNIMFGPDICGPGTKKVHVIFNYKGKNVLINKDIRCKDDEFTHLYTLIVRPDNTYEVKIDNSQVESGSLEDDWDFLPPKKIKDPDAAKPEDWDERAKIDDPTDSKPEDWDKPEHIPDPDAKKPEDWDEEMDGEWEPPVIQNPEYKGEWKPRQIDNPDYKGTWIHPEIDNPEYSPDANIYAYDSFAVLGLDLWQVKSGTIFDNFLITNDEAYAEEFGNETWGVTKAAEKQMKDKQDEEQRLKEEEEDKKRKEEEEAEDKEDEDDRDEDEDEEDEKEEDEEDATGQAKDEL |
| 712 | sp|Q12018|CDC53\_YEAST | MSETLPRSDDLEATWNFIEPGINQILGNEKNQASTSKRVYKILSPTMYMEVYTAIYNYCVNKSRSSGHFSTDSRTGQSTILVGSEIYEKLKNYLKNYILNFKQSNSETFLQFYVKRWKRFTIGAIFLNHAFDYMNRYWVQKERSDGKRHIFDVNTLCLMTWKEVMFDPSKDVLINELLDQVTLGREGQIIQRSNISTAIKSLVALGIDPQDLKKLNLNVYIQVFEKPFLKKTQEYYTQYTNDYLEKHSVTEYIFEAHEIIKREEKAMTIYWDDHTKKPLSMALNKVLITDHIEKLENEFVVLLDARDIEKITSLYALIRRDFTLIPRMASVFENYVKKTGENEISSLLAMHKHNIMKNENANPKKLALMTAHSLSPKDYIKKLLEVHDIFSKIFNESFPDDIPLAKALDNACGAFININEFALPAGSPKSATSKTSEMLAKYSDILLKKATKPEVASDMSDEDIITIFKYLTDKDAFETHYRRLFAKRLIHGTSTSAEDEENIIQRLQAANSMEYTGKITKMFQDIRLSKILEDDFAVALKNEPDYSKAKYPDLQPFVLAENMWPFSYQEVEFKLPKELVPSHEKLKESYSQKHNGRILKWLWPLCRGELKADIGKPGRMPFNFTVTLFQMAILLLYNDADVLTLENIQEGTSLTIQHIAAAMVPFIKFKLIQQVPPGLDALVKPETQFKLSRPYKALKTNINFASGVKNDILQSLSGGGHDNHGNKLGNKRLTEDERIEKELNTERQIFLEACIVRIMKAKRNLPHTTLVNECIAQSHQRFNAKVSMVKRAIDSLIQKGYLQRGDDGESYAYLA |
| 713 | sp|P36222|CH3L1\_HUMAN | MGVKASQTGFVVLVLLQCCSAYKLVCYYTSWSQYREGDGSCFPDALDRFLCTHIIYSFANISNDHIDTWEWNDVTLYGMLNTLKNRNPNLKTLLSVGGWNFGSQRFSKIASNTQSRRTFIKSVPPFLRTHGFDGLDLAWLYPGRRDKQHFTTLIKEMKAEFIKEAQPGKKQLLLSAALSAGKVTIDSSYDIAKISQHLDFISIMTYDFHGAWRGTTGHHSPLFRGQEDASPDRFSNTDYAVGYMLRLGAPASKLVMGIPTFGRSFTLASSETGVGAPISGPGIPGRFTKEAGTLAYYEICDFLRGATVHRILGQQVPYATKGNQWVGYDDQESVKSKVQYLKDRQLAGAMVWALDLDDFQGSFCGQDLRFPLTNAIKDALAAT |
| 714 | sp|Q9Z0F5|CH25H\_MOUSE | MGCYNGSELQDLGCSSQLLLQPLWDTIRTREAFTRSPIFPVTFSIITYVGFCLPFVVLDVLYPWVPILRRYKIHPDFSPSVKQLLPCLGLTLYQHLVFVFPVTLLHWVRSPALLPQEAPELVQLLSHVLICLLLFDTEIFAWHLLHHKVPWLYRTFHKVHHQNSSSFALATQYMSFWELLSLTFFDVLNVAVLRCHPLTIFTFHVINIWLSVEDHSGYDFPWSTHRLVPFGWYGGVAHHDMHHSQFNCNFAPYFTHWDKMLGTLRSAPLPESLCACGERCVNSRERCAVHLIQKKKQT |
| 715 | sp|Q9H5V8|CDCP1\_HUMAN | MAGLNCGVSIALLGVLLLGAARLPRGAEAFEIALPRESNITVLIKLGTPTLLAKPCYIVISKRHITMLSIKSGERIVFTFSCQSPENHFVIEIQKNIDCMSGPCPFGEVQLQPSTSLLPTLNRTFIWDVKAHKSIGLELQFSIPRLRQIGPGESCPDGVTHSISGRIDATVVRIGTFCSNGTVSRIKMQEGVKMALHLPWFHPRNVSGFSIANRSSIKRLCIIESVFEGEGSATLMSANYPEGFPEDELMTWQFVVPAHLRASVSFLNFNLSNCERKEERVEYYIPGSTTNPEVFKLEDKQPGNMAGNFNLSLQGCDQDAQSPGILRLQFQVLVQHPQNESNKIYVVDLSNERAMSLTIEPRPVKQSRKFVPGCFVCLESRTCSSNLTLTSGSKHKISFLCDDLTRLWMNVEKTISCTDHRYCQRKSYSLQVPSDILHLPVELHDFSWKLLVPKDRLSLVLVPAQKLQQHTHEKPCNTSFSYLVASAIPSQDLYFGSFCPGGSIKQIQVKQNISVTLRTFAPSFQQEASRQGLTVSFIPYFKEEGVFTVTPDTKSKVYLRTPNWDRGLPSLTSVSWNISVPRDQVACLTFFKERSGVVCQTGRAFMIIQEQRTRAEEIFSLDEDVLPKPSFHHHSFWVNISNCSPTSGKQLDLLFSVTLTPRTVDLTVILIAAVGGGVLLLSALGLIICCVKKKKKKTNKGPAVGIYNDNINTEMPRQPKKFQKGRKDNDSHVYAVIEDTMVYGHLLQDSSGSFLQPEVDTYRPFQGTMGVCPPSPPTICSRAPTAKLATEEPPPRSPPESESEPYTFSHPNNGDVSSKDTDIPLLNTQEPMEPAE |
| 716 | sp|O97605|CD40L\_FELCA | MIETYSQTAPRSVAPGPPVSMKIFMYLLTVFLITQMIGSALFAVYLHRRLDKIEDERNLYEDFVFMKTLQKCNKGEGALSLLNCEEIKSRFEAFLKEIMLNKETKKEKNVAMQKGDQDPRVAAHVISEASSSTASVLQWAPKGYYTISSNLVTLENGKQLAVKRQGLYYIYAQVTFCSNREASSQAPFIASLCLHSPSGSERVLLRAANARSSSKPCGQQSIHLGGVFELHPGASVFVNVTDPSQVSHGTGFTSFGLLKL |
| 717 | sp|Q07DZ6|CFTR\_ORNAN | MQRSPLERANLFSKLFFSWTKPILKKGYRQHLELSDIYQIPTADSADNLSEKLEREWDRELASKKNPKLINALRRCFFWRFMFYGLLLYLGEVTKAVQPLLLGRIIASYDPDNAHERSIAYYLGIGLCLLFIVRTLLLHPAVFGLHHIGMQMRIALFSLIYKKTLKLSSRVLDKISTGQLVSLLSNNLNKFDEGLALAHFVWIAPLQVMLLMGLLWDLLQASAFCGLAVLVVLVLFQAWLGHRMMKYRDRRAGKINERLVITAEIIENIQSVKAYCWEEAMENMIESLRETELKLTRKAAYMRYFNSSAFFFSGFFVVFLSVLPSMLTKGIVLRKIFTTISFCIVLRMAVTRQFPWAVQMWYDSIGAIYKIQDFLQKEEYKTLEYNLTTTDVVMENVTAFWDEGFGELLVKAKQNDSSRKVSSDDKNLIFSNISLLGPPVLKDISFKIEKGQLLAVAGSTGAGKTSLLMMIMGELEPLEGKIKHSGRISFSPQFSWIMPGTIKENIVFGVSFDEYRYRSVIKACQLEEEISKFAEKDNTVLGEGGITLSGGQRARISLARAVYKDADLYLLDSPFGYLDVLTEKEIFESCVCKLMANKTRILVTSKMEHLKKADKILILHEGSCYFYGAFSELQNLRPDFSSKLMGYDSFDQFSAERRNSILTETLRRFSLDGDAAGSWNETKKQSFKQTGEFGERRKNSILNPLNSIRKFSLVQKAPLQMNCIDETLDEPPERKLSLVPDSEPGEAILPRSNMLNPGPVLRARRRQSVLNLMTRPSIHQGSSLYKKGSASARKMSVAPQSNMSEMDIYSRRLSKDSGLEISEEINEEDLKECFIDDIESTTSVTTWNTYLRYMTIHKKLIFVLMMCLVIFLIEVAASLVGLCLFKDGASRMNSTSNLNHTSTLDWFAVIVTNTSTYYMFYIYVGVADTLLALGFLRGLPLVHSLISVSKILHQKMLHSVLQAPMSTFNTLKTGSILNRFSKDMAILDDLLPLTIFDFIQLLLIVIGAVTVVSALQPYIFLASVPVVIAFVLLRAYFLRTSQQLKQLESEARSPIFTHLITSLKGLWTLRAFGRQTYFEALFHKALNLHTANWFLYLSTLRWFQMRIEMVFVIFFILVTFISILTTGDGEGKVGIVLTLAMNIMGTLQWAVNASIDVDSLMRSVSRVFKFIDMPTEEHRPTHPAKNKDISGVLIIENQHVKREKNWPSGGQMTVQDLTAKYLDGGPAILDNISFSISSGQRVGLLGRTGSGKSTLLFAFLRLLNTEGDIRIDGISWDAVPVQQWRKAFGVIPQKVFIFSGSFRKNLDPYGQWTDQELWKVAEEVGLKSVIEQFPGQLDFVLIDGGYVLSHGHRQLMCLARSVLSKAKILLLDEPSAHLDPITYQVIRKTLKQAFTNCTVILSEHRIEAMLECQRFLVIEENKVRQYESIQKLLNEKSVFKQAISHSDKMKLFPIHRRNSSKRLSRPKITALQEETEEEVQDTRL |
| 718 | sp|Q9BY43|CHM4A\_HUMAN | MSGLGRLFGKGKKEKGPTPEEAIQKLKETEKILIKKQEFLEQKIQQELQTAKKYGTKNKRAALQALRRKKRFEQQLAQTDGTLSTLEFQREAIENATTNAEVLRTMELAAQSMKKAYQDMDIDKVDELMTDITEQQEVAQQISDAISRPMGFGDDVDEDELLEELEELEQEELAQELLNVGDKEEEPSVKLPSVPSTHLPAGPAPKVDEDEEALKQLAEWVS |
| 719 | sp|P16127|CHLI1\_ARATH | MASLLGTSSSAIWASPSLSSPSSKPSSSPICFRPGKLFGSKLNAGIQIRPKKNRSRYHVSVMNVATEINSTEQVVGKFDSKKSARPVYPFAAIVGQDEMKLCLLLNVIDPKIGGVMIMGDRGTGKSTTVRSLVDLLPEINVVAGDPYNSDPIDPEFMGVEVRERVEKGEQVPVIATKINMVDLPLGATEDRVCGTIDIEKALTEGVKAFEPGLLAKANRGILYVDEVNLLDDHLVDVLLDSAASGWNTVEREGISISHPARFILIGSGNPEEGELRPQLLDRFGMHAQVGTVRDADLRVKIVEERARFDSNPKDFRDTYKTEQDKLQDQISTARANLSSVQIDRELKVKISRVCSELNVDGLRGDIVTNRAAKALAALKGKDRVTPDDVATVIPNCLRHRLRKDPLESIDSGVLVSEKFAEIFS |
| 720 | sp|Q5ZM44|CHP1\_CHICK | MGSRASTLLRDEEIEEIKKETGFSHSQITRLYSRFTSLDKGENGTLSREDFQRIPELAINPLGDRIINAFFSEGEDQVNFRGFMRTLAHFRPIEDNEKSKDQNGPEPLNSRSNKLHFAFRLYDLDKDDKISRDELLQVLRMMVGVNISDEQLGSIADRTIQEADQDGDCAISFAEFVKVLEKVDVEQKMSIRFLH |
| 721 | sp|Q6DFW0|CI072\_MOUSE | MSTICPPPSPAVAKTEIALSGESPLLAATFAYWDNILGPRVRHIWAPKTDQVLLSDGEITFLANHTLNGEILRNAESGAIDVKFFVLSEKGVIIVSLIFDGNWNGDRSTYGLSIILPQTELSFYLPLHRVCVDRLTHIIRKGRIWMHKERQENVQKIVLEGTERMEDQGQSIIPMLTGEVIPVMELLASMKSHSVPEDIDIADTVLNDDDIGDSCHEGFLLNAISSHLQTCGCSVVVGSSAEKVNKIVRTLCLFLTPAERKCSRLCEAESSFKYESGLFVQGLLKDATGSFVLPFRQVMYAPYPTTHIDVDVNTVKQMPPCHEHIYNQRRYMRSELTAFWRATSEEDMAQDTIIYTDESFTPDLNIFQDVLHRDTLVKAFLDQVFHLKPGLSLRSTFLAQFLLILHRKALTLIKYIEDDTQKGKKPFKSLRNLKIDLDLTAEGDLNIIMALAEKIKPGLHSFIFGRPFYTSVQERDVLMTF |
| 722 | sp|Q9Y2V2|CHSP1\_HUMAN | MSSEPPPPPQPPTHQASVGLLDTPRSRERSPSPLRGNVVPSPLPTRRTRTFSATVRASQGPVYKGVCKCFCRSKGHGFITPADGGPDIFLHISDVEGEYVPVEGDEVTYKMCSIPPKNEKLQAVEVVITHLAPGTKHETWSGHVISS |
| 723 | sp|Q9ZSA2|CDPKL\_ARATH | MGCFSSKHRKTQNDGGEKSIPINPVQTHVVPEHRKPQTPTPKPMTQPIHQQISTPSSNPVSVRDPDTILGKPFEDIRKFYSLGKELGRGQFGITYMCKEIGTGNTYACKSILKRKLISKQDKEDVKREIQIMQYLSGQPNIVEIKGAYEDRQSIHLVMELCAGGELFDRIIAQGHYSERAAAGIIRSIVNVVQICHFMGVVHRDLKPENFLLSSKEENAMLKATDFGLSVFIEEGKVYRDIVGSAYYVAPEVLRRSYGKEIDIWSAGVILYILLSGVPPFWAENEKGIFDEVIKGEIDFVSEPWPSISESAKDLVRKMLTKDPKRRITAAQVLEHPWIKGGEAPDKPIDSAVLSRMKQFRAMNKLKKLALKVIAESLSEEEIKGLKTMFANIDTDKSGTITYEELKTGLTRLGSRLSETEVKQLMEAADVDGNGTIDYYEFISATMHRYKLDRDEHVYKAFQHFDKDNSGHITRDELESAMKEYGMGDEASIKEVISEVDTDNDGRINFEEFCAMMRSGSTQPQGKLLPFH |
| 724 | sp|Q99653|CHP1\_HUMAN | MGSRASTLLRDEELEEIKKETGFSHSQITRLYSRFTSLDKGENGTLSREDFQRIPELAINPLGDRIINAFFPEGEDQVNFRGFMRTLAHFRPIEDNEKSKDVNGPEPLNSRSNKLHFAFRLYDLDKDEKISRDELLQVLRMMVGVNISDEQLGSIADRTIQEADQDGDSAISFTEFVKVLEKVDVEQKMSIRFLH |
| 725 | sp|P43379|CDGT2\_BACCI | MKKFLKSTAALALGLSLTFGLFSPAQAAPDTSVSNKQNFSTDVIYQIFTDRFSDGNPANNPTGAAFDGTCTNLRLYCGGDWQGIINKINDGYLTGMGVTAIWISQPVENIYSIINYSGVNNTAYHGYWARDFKKTNPAYGTIADFQNLIAAAHAKNIKVIIDFAPNHTSPASSDQPSFAENGRLYDNGTLLGGYTNDTQNLFHHNGGTDFSTTENGIYKNLYDLADLNHNNSTVDVYLKDAIKMWLDLGIDGIRMDAVKHMPFGWQKSFMAAVNNYKPVFTFGEWFLGVNEVSPENHKFANESGMSLLDFRFAQKVRQVFRDNTDNMYGLKAMLEGSAADYAQVDDQVTFIDNHDMERFHASNANRRKLEQALAFTLTSRGVPAIYYGTEQYMSGGTDPDNRARIPSFSTSTTAYQVIQKLAPLRKCNPAIAYGSTQERWINNDVLIYERKFGSNVAVVAVNRNLNAPASISGLVTSLPQGSYNDVLGGLLNGNTLSVGSGGAASNFTLAAGGTAVWQYTAATATPTIGHVGPMMAKPGVTITIDGRGFGSSKGTVYFGTTAVSGADITSWEDTQIKVKIPAVAGGNYNIKVANAAGTASNVYDNFEVLSGDQVSVRFVVNNATTALGQNVYLTGSVSELGNWDPAKAIGPMYNQVVYQYPNWYYDVSVPAGKTIEFKFLKKQGSTVTWEGGSNHTFTAPSSGTATINVNWQP |
| 726 | sp|P0AE67|CHEY\_ECOLI | MADKELKFLVVDDFSTMRRIVRNLLKELGFNNVEEAEDGVDALNKLQAGGYGFVISDWNMPNMDGLELLKTIRADGAMSALPVLMVTAEAKKENIIAAAQAGASGYVVKPFTAATLEEKLNKIFEKLGM |
| 727 | sp|P07330|CHEB\_ECOLI | MSKIRVLSVDDSALMRQIMTEIINSHSDMEMVATAPDPLVARDLIKKFNPDVLTLDVEMPRMDGLDFLEKLMRLRPMPVVMVSSLTGKGSEVTLRALELGAIDFVTKPQLGIREGMLAYNEMIAEKVRTAAKASLAAHKPLSAPTTLKAGPLLSSEKLIAIGASTGGTEAIRHVLQPLPLSSPALLITQHMPPGFTRSFADRLNKLCQIGVKEAEDGERVLPGHAYIAPGDRHMELSRSGANYQIKIHDGPAVNRHRPSVDVLFHSVAKQAGRNAVGVILTGMGNDGAAGMLAMRQAGAWTLAQNEASCVVFGMPREAINMGGVCEVVDLSQVSQQMLAKISAGQAIRI |
| 728 | sp|P07334|CDR1\_SCHPO | MVKRHKNTIGVWRLGKTLGTGSTSCVRLAKHAKTGDLAAIKIIPIRYASIGMEILMMRLLRHPNILRLYDVWTDHQHMYLALEYVPDGELFHYIRKHGPLSEREAAHYLSQILDAVAHCHRFRFRHRDLKLENILIKVNEQQIKIADFGMATVEPNDSCLENYCGSLHYLAPEIVSHKPYRGAPADVWSCGVILYSLLSNKLPFGGQNTDVIYNKIRHGAYDLPSSISSAAQDLLHRMLDVNPSTRITIPEVFSHPFLMGCTSLSSMDSTTPPTPSLSIDEIDPLVVDCMCVLWKKSSSKKVVRRLQQRDDNDEKYVYKVLSEILRDDMLKKQRFDENKYLSLYDLIHDNNLFTKASISTTSLVKSNVSTNSRKSSNFEDELARRVSSPLSALNQMSQSPIPIRVSSDKDYDSYACHEVVSNPSTLDDDYNYMFVCPPEEYTYSTDNVRTDSLDLQSLPTPTLEQLESVPFNRYGYVRIFPSTTLSSTASGYYTPDSLSTPEPSIDGLTNLDDVQVGGFVQGSGNQNRRPISFPVISNMQPNITNVRSASAPLCSSPVPSRRYSQYATNARYTPRKVSSGSVLRKISSFFRKD |
| 729 | sp|O75339|CILP1\_HUMAN | MVGTKAWVFSFLVLEVTSVLGRQTMLTQSVRRVQPGKKNPSIFAKPADTLESPGEWTTWFNIDYPGGKGDYERLDAIRFYYGDRVCARPLRLEARTTDWTPAGSTGQVVHGSPREGFWCLNREQRPGQNCSNYTVRFLCPPGSLRRDTERIWSPWSPWSKCSAACGQTGVQTRTRICLAEMVSLCSEASEEGQHCMGQDCTACDLTCPMGQVNADCDACMCQDFMLHGAVSLPGGAPASGAAIYLLTKTPKLLTQTDSDGRFRIPGLCPDGKSILKITKVKFAPIVLTMPKTSLKAATIKAEFVRAETPYMVMNPETKARRAGQSVSLCCKATGKPRPDKYFWYHNDTLLDPSLYKHESKLVLRKLQQHQAGEYFCKAQSDAGAVKSKVAQLIVIASDETPCNPVPESYLIRLPHDCFQNATNSFYYDVGRCPVKTCAGQQDNGIRCRDAVQNCCGISKTEEREIQCSGYTLPTKVAKECSCQRCTETRSIVRGRVSAADNGEPMRFGHVYMGNSRVSMTGYKGTFTLHVPQDTERLVLTFVDRLQKFVNTTKVLPFNKKGSAVFHEIKMLRRKKPITLEAMETNIIPLGEVVGEDPMAELEIPSRSFYRQNGEPYIGKVKASVTFLDPRNISTATAAQTDLNFINDEGDTFPLRTYGMFSVDFRDEVTSEPLNAGKVKVHLDSTQVKMPEHISTVKLWSLNPDTGLWEEEGDFKFENQRRNKREDRTFLVGNLEIRERRLFNLDVPESRRCFVKVRAYRSERFLPSEQIQGVVISVINLEPRTGFLSNPRAWGRFDSVITGPNGACVPAFCDDQSPDAYSAYVLASLAGEELQAVESSPKFNPNAIGVPQPYLNKLNYRRTDHEDPRVKKTAFQISMAKPRPNSAEESNGPIYAFENLRACEEAPPSAAHFRFYQIEGDRYDYNTVPFNEDDPMSWTEDYLAWWPKPMEFRACYIKVKIVGPLEVNVRSRNMGGTHRQTVGKLYGIRDVRSTRDRDQPNVSAACLEFKCSGMLYDQDRVDRTLVKVIPQGSCRRASVNPMLHEYLVNHLPLAVNNDTSEYTMLAPLDPLGHNYGIYTVTDQDPRTAKEIALGRCFDGTSDGSSRIMKSNVGVALTFNCVERQVGRQSAFQYLQSTPAQSPAAGTVQGRVPSRRQQRASRGGQRQGGVVASLRFPRVAQQPLIN |
| 730 | sp|P51943|CCNA2\_MOUSE | MPGTSRHSGRDAGSALLSLHQEDQENVNPEKLAPAQQPRAQAVLKAGNVRGPAPQQKLKTRRVAPLKDLPINDEHVTAGPSWKAVSKQPAFTIHVDEAEETQKRPAELKETECEDALAFNAAVSLPGARKPLTPLDYPMDGSFESPHAMDMSIVLEDKPVNVNEVPDYQEDIHTYLREMEVKCKPKVGYMKRQPDITNSMRAILVDWLVEVGEEYKLQNETLHLAVNYIDRFLSSMSVLRGKLQLVGTAAMLLASKFEEIYPPEVAEFVYITDDTYSKKQVLRMEHLVLKVLAFDLAAPTVNQFLTQYFLHLQPANCKVESLAMFLGELSLIDADPYLKYLPSLIAGAAFHLALYTVTGQSWPESLAQQTGYTLESLKPCLVDLHQTYLKAPQHAQQSIREKYKHSKYHSVSLLNPPETLSV |
| 731 | sp|O00622|CCN1\_HUMAN | MSSRIARALALVVTLLHLTRLALSTCPAACHCPLEAPKCAPGVGLVRDGCGCCKVCAKQLNEDCSKTQPCDHTKGLECNFGASSTALKGICRAQSEGRPCEYNSRIYQNGESFQPNCKHQCTCIDGAVGCIPLCPQELSLPNLGCPNPRLVKVTGQCCEEWVCDEDSIKDPMEDQDGLLGKELGFDASEVELTRNNELIAVGKGSSLKRLPVFGMEPRILYNPLQGQKCIVQTTSWSQCSKTCGTGISTRVTNDNPECRLVKETRICEVRPCGQPVYSSLKKGKKCSKTKKSPEPVRFTYAGCLSVKKYRPKYCGSCVDGRCCTPQLTRTVKMRFRCEDGETFSKNVMMIQSCKCNYNCPHANEAAFPFYRLFNDIHKFRD |
| 732 | sp|Q9NY25|CLC5A\_HUMAN | MNWHMIISGLIVVVLKVVGMTLFLLYFPQIFNKSNDGFTTTRSYGTVSQIFGSSSPSPNGFITTRSYGTVCPKDWEFYQARCFFLSTSESSWNESRDFCKGKGSTLAIVNTPEKLKFLQDITDAEKYFIGLIYHREEKRWRWINNSVFNGNVTNQNQNFNCATIGLTKTFDAASCDISYRRICEKNAK |
| 733 | sp|Q96MT8|CEP63\_HUMAN | MEALLEGIQNRGHGGGFLTSCEAELQELMKQIDIMVAHKKSEWEGRTHALETCLKIREQELKSLRSQLDVTHKEVGMLHQQVEEHEKIKQEMTMEYKQELKKLHEELCILKRSYEKLQKKQMREFRGNTKNHREDRSEIERLTAKIEEFRQKSLDWEKQRLIYQQQVSSLEAQRKALAEQSEIIQAQLVNRKQKLESVELSSQSEIQHLSSKLERANDTICANELEIERLTMRVNDLVGTSMTVLQEQQQKEEKLRESEKLLEALQEEKRELKAALQSQENLIHEARIQKEKLQEKVKATNTQHAVEAIRPREESLAEKKYTSQGQGDLDSVLSQLNFTHTSEDLLQAEVTCLEGSLESVSATCKQLSQELMEKYEELKRMEAHNNEYKAEIKKLKEQILQGEQSYSSALEGMKMEISHLTQELHQRDITIASTKGSSSDMEKRLRAEMQKAEDKAVEHKEILDQLESLKLENRHLSEMVMKLELGLHEAKEISLADLQENYIEALNKLVSENQQLQKDLMNTKSQLEISTQMCKKQNDRIFKPTHSRTTEFKNTEFKPTHGQHRHDGIKTEHYKTDLHSPRGQASDSINPMSRVLSPLSPQISPCSSTRSLTSYSLCKTHSLPSALDTNEANFSDTMSESMNDQEEFISSCSLPVSPLGSIATRFLEEEELRSHHILERLDAHIEELKRESEKTVRQFTALK |
| 734 | sp|P06729|CD2\_HUMAN | MSFPCKFVASFLLIFNVSSKGAVSKEITNALETWGALGQDINLDIPSFQMSDDIDDIKWEKTSDKKKIAQFRKEKETFKEKDTYKLFKNGTLKIKHLKTDDQDIYKVSIYDTKGKNVLEKIFDLKIQERVSKPKISWTCINTTLTCEVMNGTDPELNLYQDGKHLKLSQRVITHKWTTSLSAKFKCTAGNKVSKESSVEPVSCPEKGLDIYLIIGICGGGSLLMVFVALLVFYITKRKKQRSRRNDEELETRAHRVATEERGRKPHQIPASTPQNPATSQHPPPPPGHRSQAPSHRPPPPGHRVQHQPQKRPPAPSGTQVHQQKGPPLPRPRVQPKPPHGAAENSLSPSSN |
| 735 | sp|P51480|CDN2A\_MOUSE | MESAADRLARAAAQGRVHDVRALLEAGVSPNAPNSFGRTPIQVMMMGNVHVAALLLNYGADSNCEDPTTFSRPVHDAAREGFLDTLVVLHGSGARLDVRDAWGRLPLDLAQERGHQDIVRYLRSAGCSLCSAGWSLCTAGNVAQTDGHSFSSSTPRALELRGQSQEQS |
| 736 | sp|P38221|CDS1\_YEAST | MSDNPEMKPHGTSKEIVESVTDATSKAIDKLQEELHKDASESVTPVTKESTAATKESRKYNFFIRTVWTFVMISGFFITLASGHAWCIVLILGCQIATFKECIAVTSASGREKNLPLTKTLNWYLLFTTIYYLDGKSLFKFFQATFYEYPVLNFIVTNHKFICYCLYLMGFVLFVCSLRKGFLKFQFGSLCVTHMVLLLVVFQAHLIIKNVLNGLFWFLLPCGLVIVNDIFAYLCGITFGKTKLIEISPKKTLEGFLGAWFFTALASIILTRILSPYTYLTCPVEDLHTNFFSNLTCELNPVFLPQVYRLPPIFFDKVQINSITVKPIYFHALNLATFASLFAPFGGFFASGLKRTFKVKDFGHSIPGHGGITDRVDCQFIMGSFANLYYETFISEHRITVDTVLSTILMNLNDKQIIELIDILIRFLSKKGIISAKNFEKLADIFNVTKKSLTNHS |
| 737 | sp|Q9EQG9|CERT\_MOUSE | MSDNQSWNSSGSEEDPETESGPPVERCGVLSKWTNYIHGWQDRWVVLKNNTLSYYKSEDETEYGCRGSICLSKAVITPHDFDECRFDISVNDSVWYLRAQDPEHRQQWVDAIEQHKTESGYGSESSLRRHGSMVSLVSGASGYSATSTSSFKKGHSLREKLAEMETFRDILCRQVDTLQKYFDVCADAVSKDELQRDKVVEDDEDDFPTTRSDGDFLHNTNGNKEKLFPHVTPKGINGIDFKGEAITFKATTAGILATLSHCIELMVKREESWQKRHDREVEKRRRVEEAYKNVMEELKKKPRFGGPDYEEGPNSLINEEEFFDAVEAALDRQDKIEEQSQSEKVRLHWPTSLPSGDTFSSVGTHRFVQKPYSRSSSMSSIDLVSASDDVHRFSSQVEEMVQNHMNYSLQDVGGDANWQLVVEEGEMKVYRREVEENGIVLDPLKATHAVKGVTGHEVCNYFWNVDVRNDWETTIENFHVVETLADNAIIVYQTHKRVWPASQRDVLYLSAIRKIPALTENDPETWIVCNFSVDHDSAPLNNRCVRAKINIAMICQTLVSPPEGDQEISRDNILCKITYVANVNPGGWAPASVLRAVAKREYPKFLKRFTSYVQEKTAGKPILF |
| 738 | sp|Q6AXM5|CEPT1\_RAT | MSGHRSTRKRCGDSHPESPVGFGHMSTTGCILNKLFQLPTPPLSRHQLKRLEEHRYQSAGRSLLEPLMQGYWEWLVGRVPSWIAPNLITIIGLSINICTTILLVFYCPTATEQAPLWAYIACACGLFIYQSLDAIDGKQARRTNSSSPLGELFDHGCDSLSTVFVVLGTCIAVQLGTNPDWMFFCCFAGTFMFYCAHWQTYVSGTLRFGIIDVTEVQIFIIIMHLLAVIGGPPFWQSMIPVLNIQMKLFPALCTVAGTIFSCTNYFRVIFTGGVGKNGSTIAGTSVLSPFLHIGSVITLAVMIYKKSAVQLFEKHPCLYILTFGFVSAKITNKLVVAHMTKSEMHLHDTAFIGPALLFLDQYFNSFIDEYIVLWIALVFSFFDLIRYCVSVCNQIASHLHIHVFRIKTSTAHSNHH |
| 739 | sp|P51798|CLCN7\_HUMAN | MANVSKKVSWSGRDRDDEEAAPLLRRTARPGGGTPLLNGAGPGAARQSPRSALFRVGHMSSVELDDELLDPDMDPPHPFPKEIPHNEKLLSLKYESLDYDNSENQLFLEEERRINHTAFRTVEIKRWVICALIGILTGLVACFIDIVVENLAGLKYRVIKGNIDKFTEKGGLSFSLLLWATLNAAFVLVGSVIVAFIEPVAAGSGIPQIKCFLNGVKIPHVVRLKTLVIKVSGVILSVVGGLAVGKEGPMIHSGSVIAAGISQGRSTSLKRDFKIFEYFRRDTEKRDFVSAGAAAGVSAAFGAPVGGVLFSLEEGASFWNQFLTWRIFFASMISTFTLNFVLSIYHGNMWDLSSPGLINFGRFDSEKMAYTIHEIPVFIAMGVVGGVLGAVFNALNYWLTMFRIRYIHRPCLQVIEAVLVAAVTATVAFVLIYSSRDCQPLQGGSMSYPLQLFCADGEYNSMAAAFFNTPEKSVVSLFHDPPGSYNPLTLGLFTLVYFFLACWTYGLTVSAGVFIPSLLIGAAWGRLFGISLSYLTGAAIWADPGKYALMGAAAQLGGIVRMTLSLTVIMMEATSNVTYGFPIMLVLMTAKIVGDVFIEGLYDMHIQLQSVPFLHWEAPVTSHSLTAREVMSTPVTCLRRREKVGVIVDVLSDTASNHNGFPVVEHADDTQPARLQGLILRSQLIVLLKHKVFVERSNLGLVQRRLRLKDFRDAYPRFPPIQSIHVSQDERECTMDLSEFMNPSPYTVPQEASLPRVFKLFRALGLRHLVVVDNRNQVVGLVTRKDLARYRLGKRGLEELSLAQT |
| 740 | sp|Q9JKF4|CLC6A\_MOUSE | MVQERQSQGKGVCWTLRLWSAAVISMLLLSTCFIASCVVTYQFIMDQPSRRLYELHTYHSSLTCFSEGTMVSEKMWGCCPNHWKSFGSSCYLISTKENFWSTSEQNCVQMGAHLVVINTEAEQNFITQQLNESLSYFLGLSDPQGNGKWQWIDDTPFSQNVRFWHPHEPNLPEERCVSIVYWNPSKWGWNDVFCDSKHNSICEMKKIYL |
| 741 | sp|Q15021|CND1\_HUMAN | MAPQMYEFHLPLSPEELLKSGGVNQYVVQEVLSIKHLPPQLRAFQAAFRAQGPLAMLQHFDTIYSILHHFRSIDPGLKEDTLQFLIKVVSRHSQELPAILDDTTLSGSDRNAHLNALKMNCYALIRLLESFETMASQTNLVDLDLGGKGKKARTKAAHGFDWEEERQPILQLLTQLLQLDIRHLWNHSIIEEEFVSLVTGCCYRLLENPTINHQKNRPTREAITHLLGVALTRYNHMLSATVKIIQMLQHFEHLAPVLVAAVSLWATDYGMKSIVGEIVREIGQKCPQELSRDPSGTKGFAAFLTELAERVPAILMSSMCILLDHLDGENYMMRNAVLAAMAEMVLQVLSGDQLEAAARDTRDQFLDTLQAHGHDVNSFVRSRVLQLFTRIVQQKALPLTRFQAVVALAVGRLADKSVLVCKNAIQLLASFLANNPFSCKLSDADLAGPLQKETQKLQEMRAQRRTAAASAVLDPEEEWEAMLPELKSTLQQLLQLPQGEEEIPEQIANTETTEDVKGRIYQLLAKASYKKAIILTREATGHFQESEPFSHIDPEESEETRLLNILGLIFKGPAASTQEKNPRESTGNMVTGQTVCKNKPNMSDPEESRGNDELVKQEMLVQYLQDAYSFSRKITEAIGIISKMMYENTTTVVQEVIEFFVMVFQFGVPQALFGVRRMLPLIWSKEPGVREAVLNAYRQLYLNPKGDSARAKAQALIQNLSLLLVDASVGTIQCLEEILCEFVQKDELKPAVTQLLWERATEKVACCPLERCSSVMLLGMMARGKPEIVGSNLDTLVSIGLDEKFPQDYRLAQQVCHAIANISDRRKPSLGKRHPPFRLPQEHRLFERLRETVTKGFVHPDPLWIPFKEVAVTLIYQLAEGPEVICAQILQGCAKQALEKLEEKRTSQEDPKESPAMLPTFLLMNLLSLAGDVALQQLVHLEQAVSGELCRRRVLREEQEHKTKDPKEKNTSSETTMEEELGLVGATADDTEAELIRGICEMELLDGKQTLAAFVPLLLKVCNNPGLYSNPDLSAAASLALGKFCMISATFCDSQLRLLFTMLEKSPLPIVRSNLMVATGDLAIRFPNLVDPWTPHLYARLRDPAQQVRKTAGLVMTHLILKDMVKVKGQVSEMAVLLIDPEPQIAALAKNFFNELSHKGNAIYNLLPDIISRLSDPELGVEEEPFHTIMKQLLSYITKDKQTESLVEKLCQRFRTSRTERQQRDLAYCVSQLPLTERGLRKMLDNFDCFGDKLSDESIFSAFLSVVGKLRRGAKPEGKAIIDEFEQKLRACHTRGLDGIKELEIGQAGSQRAPSAKKPSTGSRYQPLASTASDNDFVTPEPRRTTRRHPNTQQRASKKKPKVVFSSDESSEEDLSAEMTEDETPKKTTPILRASARRHRS |
| 742 | sp|P10354|CMGA\_RAT | MRSSAALALLLCAGQVFALPVNSPMTKGDTKVMKCVLEVISDSLSKPSPMPVSPECLETLQGDERVLSILRHQNLLKELQDLALQGAKERAQQQQQQQQQQQQQQQQQQQQHSSFEDELSEVFENQSPAAKHGDAASEAPSKDTVEKREDSDKGQQDAFEGTTEGPRPQAFPEPKQESSMMGNSQSPGEDTANNTQSPTSLPSQEHGIPQTTEGSERGPSAQQQARKAKQEEKEEEEEEKEEEEEEKEEKAIAREKAGPKEVPTAASSSHFYSGYKKIQKDDDGQSESQAVNGKTGASEAVPSEGKGELEHSQQEEDGEEAMAGPPQGLFPGGKGQELERKQQEEEEEEERLSREWEDKRWSRMDQLAKELTAEKRLEGEDDPDRSMKLSFRARAYGFRDPGPQLRRGWRPSSREDSVEARGDFEEKKEEEGSANRRAEDQELESLSAIEAELEKVAHQLQALRRG |
| 743 | sp|P10643|CO7\_HUMAN | MKVISLFILVGFIGEFQSFSSASSPVNCQWDFYAPWSECNGCTKTQTRRRSVAVYGQYGGQPCVGNAFETQSCEPTRGCPTEEGCGERFRCFSGQCISKSLVCNGDSDCDEDSADEDRCEDSERRPSCDIDKPPPNIELTGNGYNELTGQFRNRVINTKSFGGQCRKVFSGDGKDFYRLSGNVLSYTFQVKINNDFNYEFYNSTWSYVKHTSTEHTSSSRKRSFFRSSSSSSRSYTSHTNEIHKGKSYQLLVVENTVEVAQFINNNPEFLQLAEPFWKELSHLPSLYDYSAYRRLIDQYGTHYLQSGSLGGEYRVLFYVDSEKLKQNDFNSVEEKKCKSSGWHFVVKFSSHGCKELENALKAASGTQNNVLRGEPFIRGGGAGFISGLSYLELDNPAGNKRRYSAWAESVTNLPQVIKQKLTPLYELVKEVPCASVKKLYLKWALEEYLDEFDPCHCRPCQNGGLATVEGTHCLCHCKPYTFGAACEQGVLVGNQAGGVDGGWSCWSSWSPCVQGKKTRSRECNNPPPSGGGRSCVGETTESTQCEDEELEHLRLLEPHCFPLSLVPTEFCPSPPALKDGFVQDEGTMFPVGKNVVYTCNEGYSLIGNPVARCGEDLRWLVGEMHCQKIACVLPVLMDGIQSHPQKPFYTVGEKVTVSCSGGMSLEGPSAFLCGSSLKWSPEMKNARCVQKENPLTQAVPKCQRWEKLQNSRCVCKMPYECGPSLDVCAQDERSKRILPLTVCKMHVLHCQGRNYTLTGRDSCTLPASAEKACGACPLWGKCDAESSKCVCREASECEEEGFSICVEVNGKEQTMSECEAGALRCRGQSISVTSIRPCAAETQ |
| 744 | sp|Q8NE01|CNNM3\_HUMAN | MAAAVAAAGRLGWLFAALCLGNAAGEAAPGPRVLGFCLEEDGAAGAGWVRGGAARDTPDATFLLRLFGPGFANSSWSWVAPEGAGCREEAASPAGEWRALLRLRLRAEAVRPHSALLAVRVEPGGGAAEEAAPPWALGLGAAGLLALAALARGLQLSALALAPAEVQVLRESGSEAERAAARRLEPARRWAGCALGALLLLASLAQAALAVLLYRAAGQRAVPAVLGSAGLVFLVGEVVPAAVSGRWTLALAPRALGLSRLAVLLTLPVALPVGQLLELAARPGRLRERVLELARGGGDPYSDLSKGVLRCRTVEDVLTPLEDCFMLDASTVLDFGVLASIMQSGHTRIPVYEEERSNIVDMLYLKDLAFVDPEDCTPLSTITRFYNHPLHFVFNDTKLDAVLEEFKRGKSHLAIVQKVNNEGEGDPFYEVLGLVTLEDVIEEIIRSEILDESEDYRDTVVKRKPASLMAPLKRKEEFSLFKVSDDEYKVTISPQLLLATQRFLSREVDVFSPLRISEKVLLHLLKHPSVNQEVRFDESNRLATHHYLYQRSQPVDYFILILQGRVEVEIGKEGLKFENGAFTYYGVSALTVPSSVHQSPVSSLQPIRHDLQPDPGDGTHSSAYCPDYTVRALSDLQLIKVTRLQYLNALLATRAQNLPQSPENTDLQVIPGSQTRLLGEKTTTAAGSSHSRPGVPVEGSPGRNPGV |
| 745 | sp|P12111|CO6A3\_HUMAN | MRKHRHLPLVAVFCLFLSGFPTTHAQQQQADVKNGAAADIIFLVDSSWTIGEEHFQLVREFLYDVVKSLAVGENDFHFALVQFNGNPHTEFLLNTYRTKQEVLSHISNMSYIGGTNQTGKGLEYIMQSHLTKAAGSRAGDGVPQVIVVLTDGHSKDGLALPSAELKSADVNVFAIGVEDADEGALKEIASEPLNMHMFNLENFTSLHDIVGNLVSCVHSSVSPERAGDTETLKDITAQDSADIIFLIDGSNNTGSVNFAVILDFLVNLLEKLPIGTQQIRVGVVQFSDEPRTMFSLDTYSTKAQVLGAVKALGFAGGELANIGLALDFVVENHFTRAGGSRVEEGVPQVLVLISAGPSSDEIRYGVVALKQASVFSFGLGAQAASRAELQHIATDDNLVFTVPEFRSFGDLQEKLLPYIVGVAQRHIVLKPPTIVTQVIEVNKRDIVFLVDGSSALGLANFNAIRDFIAKVIQRLEIGQDLIQVAVAQYADTVRPEFYFNTHPTKREVITAVRKMKPLDGSALYTGSALDFVRNNLFTSSAGYRAAEGIPKLLVLITGGKSLDEISQPAQELKRSSIMAFAIGNKGADQAELEEIAFDSSLVFIPAEFRAAPLQGMLPGLLAPLRTLSGTPEVHSNKRDIIFLLDGSANVGKTNFPYVRDFVMNLVNSLDIGNDNIRVGLVQFSDTPVTEFSLNTYQTKSDILGHLRQLQLQGGSGLNTGSALSYVYANHFTEAGGSRIREHVPQLLLLLTAGQSEDSYLQAANALTRAGILTFCVGASQANKAELEQIAFNPSLVYLMDDFSSLPALPQQLIQPLTTYVSGGVEEVPLAQPESKRDILFLFDGSANLVGQFPVVRDFLYKIIDELNVKPEGTRIAVAQYSDDVKVESRFDEHQSKPEILNLVKRMKIKTGKALNLGYALDYAQRYIFVKSAGSRIEDGVLQFLVLLVAGRSSDRVDGPASNLKQSGVVPFIFQAKNADPAELEQIVLSPAFILAAESLPKIGDLHPQIVNLLKSVHNGAPAPVSGEKDVVFLLDGSEGVRSGFPLLKEFVQRVVESLDVGQDRVRVAVVQYSDRTRPEFYLNSYMNKQDVVNAVRQLTLLGGPTPNTGAALEFVLRNILVSSAGSRITEGVPQLLIVLTADRSGDDVRNPSVVVKRGGAVPIGIGIGNADITEMQTISFIPDFAVAIPTFRQLGTVQQVISERVTQLTREELSRLQPVLQPLPSPGVGGKRDVVFLIDGSQSAGPEFQYVRTLIERLVDYLDVGFDTTRVAVIQFSDDPKVEFLLNAHSSKDEVQNAVQRLRPKGGRQINVGNALEYVSRNIFKRPLGSRIEEGVPQFLVLISSGKSDDEVDDPAVELKQFGVAPFTIARNADQEELVKISLSPEYVFSVSTFRELPSLEQKLLTPITTLTSEQIQKLLASTRYPPPAVESDAADIVFLIDSSEGVRPDGFAHIRDFVSRIVRRLNIGPSKVRVGVVQFSNDVFPEFYLKTYRSQAPVLDAIRRLRLRGGSPLNTGKALEFVARNLFVKSAGSRIEDGVPQHLVLVLGGKSQDDVSRFAQVIRSSGIVSLGVGDRNIDRTELQTITNDPRLVFTVREFRELPNIEERIMNSFGPSAATPAPPGVDTPPPSRPEKKKADIVFLLDGSINFRRDSFQEVLRFVSEIVDTVYEDGDSIQVGLVQYNSDPTDEFFLKDFSTKRQIIDAINKVVYKGGRHANTKVGLEHLRVNHFVPEAGSRLDQRVPQIAFVITGGKSVEDAQDVSLALTQRGVKVFAVGVRNIDSEEVGKIASNSATAFRVGNVQELSELSEQVLETLHDAMHETLCPGVTDAAKACNLDVILGFDGSRDQNVFVAQKGFESKVDAILNRISQMHRVSCSGGRSPTVRVSVVANTPSGPVEAFDFDEYQPEMLEKFRNMRSQHPYVLTEDTLKVYLNKFRQSSPDSVKVVIHFTDGADGDLADLHRASENLRQEGVRALILVGLERVVNLERLMHLEFGRGFMYDRPLRLNLLDLDYELAEQLDNIAEKACCGVPCKCSGQRGDRGPIGSIGPKGIPGEDGYRGYPGDEGGPGERGPPGVNGTQGFQGCPGQRGVKGSRGFPGEKGEVGEIGLDGLDGEDGDKGLPGSSGEKGNPGRRGDKGPRGEKGERGDVGIRGDPGNPGQDSQERGPKGETGDLGPMGVPGRDGVPGGPGETGKNGGFGRRGPPGAKGNKGGPGQPGFEGEQGTRGAQGPAGPAGPPGLIGEQGISGPRGSGGAAGAPGERGRTGPLGRKGEPGEPGPKGGIGNRGPRGETGDDGRDGVGSEGRRGKKGERGFPGYPGPKGNPGEPGLNGTTGPKGIRGRRGNSGPPGIVGQKGDPGYPGPAGPKGNRGDSIDQCALIQSIKDKCPCCYGPLECPVFPTELAFALDTSEGVNQDTFGRMRDVVLSIVNDLTIAESNCPRGARVAVVTYNNEVTTEIRFADSKRKSVLLDKIKNLQVALTSKQQSLETAMSFVARNTFKRVRNGFLMRKVAVFFSNTPTRASPQLREAVLKLSDAGITPLFLTRQEDRQLINALQINNTAVGHALVLPAGRDLTDFLENVLTCHVCLDICNIDPSCGFGSWRPSFRDRRAAGSDVDIDMAFILDSAETTTLFQFNEMKKYIAYLVRQLDMSPDPKASQHFARVAVVQHAPSESVDNASMPPVKVEFSLTDYGSKEKLVDFLSRGMTQLQGTRALGSAIEYTIENVFESAPNPRDLKIVVLMLTGEVPEQQLEEAQRVILQAKCKGYFFVVLGIGRKVNIKEVYTFASEPNDVFFKLVDKSTELNEEPLMRFGRLLPSFVSSENAFYLSPDIRKQCDWFQGDQPTKNLVKFGHKQVNVPNNVTSSPTSNPVTTTKPVTTTKPVTTTTKPVTTTTKPVTIINQPSVKPAAAKPAPAKPVAAKPVATKMATVRPPVAVKPATAAKPVAAKPAAVRPPAAAAAKPVATKPEVPRPQAAKPAATKPATTKPMVKMSREVQVFEITENSAKLHWERAEPPGPYFYDLTVTSAHDQSLVLKQNLTVTDRVIGGLLAGQTYHVAVVCYLRSQVRATYHGSFSTKKSQPPPPQPARSASSSTINLMVSTEPLALTETDICKLPKDEGTCRDFILKWYYDPNTKSCARFWYGGCGGNENKFGSQKECEKVCAPVLAKPGVISVMGT |
| 746 | sp|Q8TBE1|CNIH3\_HUMAN | MAFTFAAFCYMLSLVLCAALIFFAIWHIIAFDELRTDFKSPIDQCNPVHARERLRNIERICFLLRKLVLPEYSIHSLFCIMFLCAQEWLTLGLNVPLLFYHFWRYFHCPADSSELAYDPPVVMNADTLSYCQKEAWCKLAFYLLSFFYYLYCMIYTLVSS |
| 747 | sp|P97531|CIP4\_RAT | MDWGTELWDQFEVLERHTQWGLDLLDKYVKFVKERVEVEQSYAKQLRSLVKKYLPKRPAKDDPEIKFSQQQSFVQLLQEVNDFAGQRELVAESLGIRVCLELAKYSQEMKQERKMHFQEGRRAQQQLENGFKQLENSKRKFERDCREAEKAAHTAERLDQDINATKADVEKAKQQAHLRNHMAEESKNEYAAQLQRFNRDQAHFYFSQMPQIFDKLQDMDERRATRLGAGYGLLSEAELQVVPIIGKCLEGMKVAAESVDAKNDSKVLIELHKSGFARPGDLEFEDFSQVMNRVPSDSSLGTPDGRPELRAASSRSRAKRWPFGKKNKTVVTEDFSHLPPEQQRKRLQQQLEERNRELQKEEDQREALKKMKDVYEKTPQMGDPASLEPRIAETLGNIERLKLEVQKYEAWLAEAESRVLSNRGDSLSRHTRPPDPPTTAPPDSSSSSNNSGSQDNKESSEEPPSEEGQDTPIYTEFDEDFEEPASPIGQCVAIYHFEGSSEGTVSMSEGEDLSLMEEDKGDGWTRVRRKQGGEGYVPTSYLRVTLN |
| 748 | sp|A5D8T8|CL18A\_HUMAN | MLHPETSPGRGHLLAVLLALLGTAWAEVWPPQLQEQAPMAGALNRKESFLLLSLHNRLRSWVQPPAADMRRLDWSDSLAQLAQARAALCGTPTPSLASGLWRTLQVGWNMQLLPAGLVSFVEVVSLWFAEGQRYSHAAGECARNATCTHYTQLVWATSSQLGCGRHLCSAGQAAIEAFVCAYSPRGNWEVNGKTIVPYKKGAWCSLCTASVSGCFKAWDHAGGLCEVPRNPCRMSCQNHGRLNISTCHCHCPPGYTGRYCQVRCSLQCVHGRFREEECSCVCDIGYGGAQCATKVHFPFHTCDLRIDGDCFMVSSEADTYYRARMKCQRKGGVLAQIKSQKVQDILAFYLGRLETTNEVIDSDFETRNFWIGLTYKTAKDSFRWATGEHQAFTSFAFGQPDNHGFGNCVELQASAAFNWNDQRCKTRNRYICQFAQEHISRWGPGS |
| 749 | sp|O35740|CITE2\_MOUSE | MADHMMAMNHGRFPDGTNGLHHHPAHRMGMGQFPSPHHHQQQQPQHAFNALMGEHIHYGAGNMNATSGIRHAMGPGTVNGGHPPSALAPAARFNNSQFMGPPVASQGGSLPASMQLQKLNNQYFNHHPYPHNHYMPDLHPTAGHQMNGTNQHFRDCNPKHSGGSSTPGGAGGSGTPGGSGGTSGGAGGSSAGGSGGGSTMPASVAHVPAAMLPPNVIDTDFIDEEVLMSLVIEMGLDRIKELPELWLGQNEFDFMTDFVCKQQPSRVSC |
| 750 | sp|P28481|CO2A1\_MOUSE | MIRLGAPQSLVLLTLLIAAVLRCQGQDAQEAGSCLQNGQRYKDKDVWKPSSCRICVCDTGNVLCDDIICEDPDCLNPEIPFGECCPICPADLATASGKLGPKGQKGEPGDIRDIIGPRGPPGPQGPAGEQGPRGDRGDKGEKGAPGPRGRDGEPGTPGNPGPAGPPGPPGPPGLSAGNFAAQMAGGYDEKAGGAQMGVMQGPMGPMGPRGPPGPAGAPGPQGFQGNPGEPGEPGVSGPMGPRGPPGPAGKPGDDGEAGKPGKSGERGLPGPQGARGFPGTPGLPGVKGHRGYPGLDGAKGEAGAPGVKGESGSPGENGSPGPMGPRGLPGERGRTGPAGAAGARGNDGQPGPAGPPGPVGPAGGPGFPGAPGAKGEAGPTGARGPEGAQGSRGEPGNPGSPGPAGASGNPGTDGIPGAKGSAGAPGIAGAPGFPGPRGPPGPQGATGPLGPKGQAGEPGIAGFKGDQGPKGETGPAGPQGAPGPAGEEGKRGARGEPGGAGPIGPPGERGAPGNRGFPGQDGLAGPKGAPGERGPSGLTGPKGANGDPGRPGEPGLPGARGLTGRPGDAGPQGKVGPSGAPGEDGRPGPPGPQGARGQPGVMGFPGPKGANGEPGKAGEKGLAGAPGLRGLPGKDGETGAAGPPGPSGPAGERGEQGAPGPSGFQGLPGPPGPPGEGGKQGDQGIPGEAGAPGLVGPRGERGFPGERGSPGAQGLQGPRGLPGTPGTDGPKGAAGPDGPPGAQGPPGLQGMPGERGAAGIAGPKGDRGDVGEKGPEGAPGKDGGRGLTGPIGPPGPAGANGEKGEVGPPGPSGSTGARGAPGERGETGPPGPAGFAGPPGADGQPGAKGDQGEAGQKGDAGAPGPQGPSGAPGPQGPTGVTGPKGARGAQGPPGATGFPGAAGRVGPPGANGNPGPAGPPGPAGKDGPKGVRGDSGPPGRAGDPGLQGPAGAPGEKGEPGDDGPSGLDGPPGPQGLAGQRGIVGLPGQRGERGFPGLPGPSGEPGKQGAPGASGDRGPPGPVGPPGLTGPAGEPGREGSPGADGPPGRDGAAGVKGDRGETGALGAPGAPGPPGSPGPAGPTGKQGDRGEAGAQGPMGPSGPAGARGIAGPQGPRGDKGESGEQGERGLKGHRGFTGLQGLPGPPGPSGDQGASGPAGPSGPRGPPGPVGPSGKDGSNGIPGPIGPPGPRGRSGETGPVGPPGSPGPPGPPGPPGPGIDMSAFAGLGQREKGPDPMQYMRADEADSTLRQHDVEVDATLKSLNNQIESIRSPDGSRKNPARTCQDLKLCHPEWKSGDYWIDPNQGCTLDAMKVFCNMETGETCVYPNPATVPRKNWWSSKSKEKKHIWFGETMNGGFHFSYGDGNLAPNTANVQMTFLRLLSTEGSQNITYHCKNSIAYLDEAAGNLKKALLIQGSNDVEMRAEGNSRFTYTALKDGCTKHTGKWGKTVIEYRSQKTSRLPIIDIAPMDIGGAEQEFGVDIGPVCFL |
| 751 | sp|Q03059|CLAT\_MOUSE | MPILEKVPPKMPVQASSCEEVLDLPKLPVPPLQQTLATYLQCMQHLVPEEQFRKSQAIVKRFGAPGGLGETLQEKLLERQEKTANWVSEYWLNDMYLNNRLALPVNSSPAVIFARQHFQDTNDQLRFAASLISGVLSYKALLDSQSIPTDWAKGQLSGQPLCMKQYYRLFSSYRLPGHTQDTLVAQKSSIMPEPEHVIVACCNQFFVLDVVINFRRLSEGDLFTQLRKIVKMASNEDERLPPIGLLTSDGRSEWAKARTVLLKDSTNRDSLDMIERCICLVCLDGPGTGDLSDTHRALQLLHGGGCSLNGANRWYDKSLQFVVGRDGTCGVVCEHSPFDGIVLVQCTEHLLKHMMTGNKKLVRVDSVSELPAPRRLRWKCSPETQGHLASSAEKLQRIVKNLDFIVYKFDNYGKTFIKKQKCSPDGFIQVALQLAYYRLYQRLVPTYESASIRRFQEGRVDNIRSATPEALAFVQAMTDHKAAVLASEKLQLLQRAIQAQTEYTVMAITGMAIDNHLLALRELARDLCKEPPEMFMDETYLMSNRFILSTSQVPTTMEMFCCYGPVVPNGYGACYNPHAEAITFCISSFHGCKETSSVEFAEAVGASLVDMRDLCSSRQPADSKPPTAKERARGPSQAKQS |
| 752 | sp|P39205|CIN\_DROME | MESITFGVLTISDTCWQEPEKDTSGPILRQLIGETFANTQVIGNIVPDEKDIIQQELRKWIDREELRVILTTGGTGFAPRDVTPEATRQLLEKECPQLSMYITLESIKQTQYAALSRGLCGIAGNTLILNLPGSEKAVKECFQTISALLPHAVHLIGDDVSLVRKTHAEVQGSAQKSHICPHKTGTGTDSDRNSPYPMLPVQEVLSIIFNTVQKTANLNKILLEMNAPVNIPPFRASIKDGYAMKSTGFSGTKRVLGCIAAGDSPNSLPLAEDECYKINTGAPLPLEADCVVQVEDTKLLQLDKNGQESLVDILVEPQAGLDVRPVGYDLSTNDRIFPALDPSPVVVKSLLASVGNRLILSKPKVAIVSTGSELCSPRNQLTPGKIFDSNTTMLTELLVYFGFNCMHTCVLSDSFQRTKESLLELFEVVDFVICSGGVSMGDKDFVKSVLEDLQFRIHCGRVNIKPGKPMTFASRKDKYFFGLPGNPVSAFVTFHLFALPAIRFAAGWDRCKCSLSVLNVKLLNDFSLDSRPEFVRASVISKSGELYASVNGNQISSRLQSIVGADVLINLPARTSDRPLAKAGEIFPASVLRFDFISKYE |
| 753 | sp|Q84W98|CLE41\_ARATH | MATSNDQTNTKSSHSRTLLLLFIFLSLLLFSSLTIPMTRHQSTSMVAPFKRVLLESSVPASSTMDLRPKASTRRSRTSRRREFGNDAHEVPSGPNPISN |
| 754 | sp|Q5SWW7|CJ055\_HUMAN | MFLHLDSHSSLERTKPTVVGVDTHMELDEVHCCPGRDSGGGFIKGPMLQGLQGEGKLAPIPKPTLPSPSRLTLFVSSSQMEDHGFPARRNGLTQASFIYQMPAGWGSPGGLFLPCQPVPTPVVLKPPLPPCPISWGESGPAVDGIRRTPAP |
| 755 | sp|Q00610|CLH1\_HUMAN | MAQILPIRFQEHLQLQNLGINPANIGFSTLTMESDKFICIREKVGEQAQVVIIDMNDPSNPIRRPISADSAIMNPASKVIALKAGKTLQIFNIEMKSKMKAHTMTDDVTFWKWISLNTVALVTDNAVYHWSMEGESQPVKMFDRHSSLAGCQIINYRTDAKQKWLLLTGISAQQNRVVGAMQLYSVDRKVSQPIEGHAASFAQFKMEGNAEESTLFCFAVRGQAGGKLHIIEVGTPPTGNQPFPKKAVDVFFPPEAQNDFPVAMQISEKHDVVFLITKYGYIHLYDLETGTCIYMNRISGETIFVTAPHEATAGIIGVNRKGQVLSVCVEEENIIPYITNVLQNPDLALRMAVRNNLAGAEELFARKFNALFAQGNYSEAAKVAANAPKGILRTPDTIRRFQSVPAQPGQTSPLLQYFGILLDQGQLNKYESLELCRPVLQQGRKQLLEKWLKEDKLECSEELGDLVKSVDPTLALSVYLRANVPNKVIQCFAETGQVQKIVLYAKKVGYTPDWIFLLRNVMRISPDQGQQFAQMLVQDEEPLADITQIVDVFMEYNLIQQCTAFLLDALKNNRPSEGPLQTRLLEMNLMHAPQVADAILGNQMFTHYDRAHIAQLCEKAGLLQRALEHFTDLYDIKRAVVHTHLLNPEWLVNYFGSLSVEDSLECLRAMLSANIRQNLQICVQVASKYHEQLSTQSLIELFESFKSFEGLFYFLGSIVNFSQDPDVHFKYIQAACKTGQIKEVERICRESNCYDPERVKNFLKEAKLTDQLPLIIVCDRFDFVHDLVLYLYRNNLQKYIEIYVQKVNPSRLPVVIGGLLDVDCSEDVIKNLILVVRGQFSTDELVAEVEKRNRLKLLLPWLEARIHEGCEEPATHNALAKIYIDSNNNPERFLRENPYYDSRVVGKYCEKRDPHLACVAYERGQCDLELINVCNENSLFKSLSRYLVRRKDPELWGSVLLESNPYRRPLIDQVVQTALSETQDPEEVSVTVKAFMTADLPNELIELLEKIVLDNSVFSEHRNLQNLLILTAIKADRTRVMEYINRLDNYDAPDIANIAISNELFEEAFAIFRKFDVNTSAVQVLIEHIGNLDRAYEFAERCNEPAVWSQLAKAQLQKGMVKEAIDSYIKADDPSSYMEVVQAANTSGNWEELVKYLQMARKKARESYVETELIFALAKTNRLAELEEFINGPNNAHIQQVGDRCYDEKMYDAAKLLYNNVSNFGRLASTLVHLGEYQAAVDGARKANSTRTWKEVCFACVDGKEFRLAQMCGLHIVVHADELEELINYYQDRGYFEELITMLEAALGLERAHMGMFTELAILYSKFKPQKMREHLELFWSRVNIPKVLRAAEQAHLWAELVFLYDKYEEYDNAIITMMNHPTDAWKEGQFKDIITKVANVELYYRAIQFYLEFKPLLLNDLLMVLSPRLDHTRAVNYFSKVKQLPLVKPYLRSVQNHNNKSVNESLNNLFITEEDYQALRTSIDAYDNFDNISLAQRLEKHELIEFRRIAAYLFKGNNRWKQSVELCKKDSLYKDAMQYASESKDTELAEELLQWFLQEEKRECFGACLFTCYDLLRPDVVLETAWRHNIMDFAMPYFIQVMKEYLTKVDKLDASESLRKEEEQATETQPIVYGQPQLMLTAGPSVAVPPQAPFGYGYTAPPYGQPQPGFGYSM |
| 756 | sp|Q6SJQ7|CLM1\_MOUSE | MHLSLLVPFLFWITGCCTAEDPVTGPEEVSGQEQGSLTVQCRYTSGWKDYKKYWCQGVPQRSCKTLVETDASEQLVKKNRVSIRDNQRDFIFTVTMEDLRMSDAGIYWCGITKGGLDPMFKVTVNIGPAIQVPITVPTMPPITSTTTIFTVTTTVKETSMFPTLTSYYSDNGHGGGDSGGGEDGVGDGFLDLSVLLPVISAVLLLLLLVASLFAWRMVRRQKKAAGPPSEQAQSLEGDLCYADLSLKQPRTSPGSSWKKGSSMSSSGKDHQEEVEYVTMAPFPREEVSYAALTLAGLGQEPTYGNTGCPITHVPRTGLEEETTEYSSIRRPLPAAMP |
| 757 | sp|Q96DZ5|CLIP3\_HUMAN | MTKTDPAPMAPPPRGEEEEEEEEDEPVPEAPSPTQERRQKPVVHPSAPAPLPKDYAFTFFDPNDPACQEILFDPQTTIPELFAIVRQWVPQVQHKIDVIGNEILRRGCHVNDRDGLTDMTLLHYACKAGAHGVGDPAAAVRLSQQLLALGADVTLRSRWTNMNALHYAAYFDVPDLVRVLLKGARPRVVNSTCSDFNHGSALHIAASSLCLGAAKCLLEHGANPALRNRKGQVPAEVVPDPMDMSLDKAEAALVAKELRTLLEEAVPLSCALPKVTLPNYDNVPGNLMLSALGLRLGDRVLLDGQKTGTLRFCGTTEFASGQWVGVELDEPEGKNDGSVGGVRYFICPPKQGLFASVSKISKAVDAPPSSVTSTPRTPRMDFSRVTGKGRREHKGKKKTPSSPSLGSLQQRDGAKAEVGDQVLVAGQKQGIVRFYGKTDFAPGYWYGIELDQPTGKHDGSVFGVRYFTCPPRHGVFAPASRIQRIGGSTDSPGDSVGAKKVHQVTMTQPKRTFTTVRTPKDIASENSISRLLFCCWFPWMLRAEMQS |
| 758 | sp|Q9I8N6|CSF1R\_DANRE | MFFALLFLIGILLGQVQGWSEPRIRLSSGALAGTDVILESGSPLQLVCEGDGPVTFLPRLAKHKRYISKEVGKIRSFRVEKTTVDFTGTYKCVYMNGNDSNLSSSVHVFVRDSRVLFVSPSTSLRYVRKEGEDLLLPCLLTDPEATDFTFRMDNGSAAPYGMNITYDPRKGVLIRNVHPGFNADYICCARIGGAEKVSKIFSINIIQRLRFPPYVYLKRNEYVKLVGERLQISCTTNNPNFYYNVTWTHSSRMLPKAEEKSTMEGDRLAIESILTIPSVQLSHTGNITCTGQNEAGANSSTTQLLVVEEPYIRLSPKLSSKLTHRGLSIEVSEGDDVDLGVLIEAYPPLTSHKWETPTSHNASLPENRFFNHNDRYEALLLLKRLNFEEIGQYTLNVKNSMKSASITFDIKMYTKPVARVKWENVTTLSCRSYGYPAPSILWYQCTGIRTTCPENTTDLQPIQTQTVEFQKESFGAVGVESVLTVGPNRRMTVVCVAFNLVGQGSDTFSMEVSDQIFTSAMCGSTVAMVVLGLLLIFMIYKYKQKPRYEIRWKIIEATNGNNYTFIDPTQLPYNEKWEFPRDKLKLGKTLGAGAFGKVVEATAYGLGKEDNITRVAVKMLKASAHPDEREALMSELKILSHLGQHKNIVNLLGACTHGGPVLVITEYCCHGDLLNFLRSKAENFLNFVMTIPNFPEPMTDYKNVSTERMFVRSDSGISSTCSDHYLDMRPVTSRPTNSALDSSSECQEDSWPLDMDDLLRFSSQVAQGLDFLAAKNCIHRDVAARNVLLTNSRVAKICDFGLARDIMNDSNYVVKGNARLPVKWMAPESIFECVYTVQSDVWSYGIMLWEIFSLGKSPYPNILVDSKFYKMIKCGYQMSRPDFAPPEMYTIMKMCWNLDAAERPTFSKISQMIQRMLGETSEQQDTQEYKNIPTEAEAEQQLESCDPVKHEDESFETSCDQEEEDQPLMKPNNYQFC |
| 759 | sp|P9WPA5|COAD\_MYCTU | MTGAVCPGSFDPVTLGHVDIFERAAAQFDEVVVAILVNPAKTGMFDLDERIAMVKESTTHLPNLRVQVGHGLVVDFVRSCGMTAIVKGLRTGTDFEYELQMAQMNKHIAGVDTFFVATAPRYSFVSSSLAKEVAMLGGDVSELLPEPVNRRLRDRLNTERT |
| 760 | sp|P07333|CSF1R\_HUMAN | MGPGVLLLLLVATAWHGQGIPVIEPSVPELVVKPGATVTLRCVGNGSVEWDGPPSPHWTLYSDGSSSILSTNNATFQNTGTYRCTEPGDPLGGSAAIHLYVKDPARPWNVLAQEVVVFEDQDALLPCLLTDPVLEAGVSLVRVRGRPLMRHTNYSFSPWHGFTIHRAKFIQSQDYQCSALMGGRKVMSISIRLKVQKVIPGPPALTLVPAELVRIRGEAAQIVCSASSVDVNFDVFLQHNNTKLAIPQQSDFHNNRYQKVLTLNLDQVDFQHAGNYSCVASNVQGKHSTSMFFRVVESAYLNLSSEQNLIQEVTVGEGLNLKVMVEAYPGLQGFNWTYLGPFSDHQPEPKLANATTKDTYRHTFTLSLPRLKPSEAGRYSFLARNPGGWRALTFELTLRYPPEVSVIWTFINGSGTLLCAASGYPQPNVTWLQCSGHTDRCDEAQVLQVWDDPYPEVLSQEPFHKVTVQSLLTVETLEHNQTYECRAHNSVGSGSWAFIPISAGAHTHPPDEFLFTPVVVACMSIMALLLLLLLLLLYKYKQKPKYQVRWKIIESYEGNSYTFIDPTQLPYNEKWEFPRNNLQFGKTLGAGAFGKVVEATAFGLGKEDAVLKVAVKMLKSTAHADEKEALMSELKIMSHLGQHENIVNLLGACTHGGPVLVITEYCCYGDLLNFLRRKAEAMLGPSLSPGQDPEGGVDYKNIHLEKKYVRRDSGFSSQGVDTYVEMRPVSTSSNDSFSEQDLDKEDGRPLELRDLLHFSSQVAQGMAFLASKNCIHRDVAARNVLLTNGHVAKIGDFGLARDIMNDSNYIVKGNARLPVKWMAPESIFDCVYTVQSDVWSYGILLWEIFSLGLNPYPGILVNSKFYKLVKDGYQMAQPAFAPKNIYSIMQACWALEPTHRPTFQQICSFLQEQAQEDRRERDYTNLPSSSRSGGSGSSSSELEEESSSEHLTCCEQGDIAQPLLQPNNYQFC |
| 761 | sp|Q9W3D3|CRAG\_DROME | MEEKRIADYFVVAGMPENPQLLQENSFNDSGRLRAATTIEPITDIGVYFPLLGEEVPEGYEILSHTPTGLQANLNHGSVRTTDCYIYFRRGKDRPPLVDIGVLYDGHERIMSDAEIVAETPGGRVANVNNSSAKTFLTYRRARADMPCNELVVTELCVIVQSKGERAPHAFCLIYKTLNKGYVGSDVYLCYKKSMYRPKHISYKPEILLRYPTFDHTDFPLNLCPSVPLFCLPMGASLEAWPHVNGTEKRKPISPVFSTFVLTVSDGTYKVYGSALTFYEDYDESKLSAEQKELLGWDEEFGAQHSLHMIKAICLLSHHPFGDTFDKWLKYLHRMVLYDVNIPIPVERYITQLLDEVPFPAPSIHLQLSSESNDRILLTQPEDSPLPRSGAGFHILLQNLGTDNCLHVLLLALTEQKILIHSLRPATLTAVAEAIVSLLFPFKWQCPYIPLCPLGLAEVLHAPLPYLIGVDSRFFDLYEPPTDVTCIDLDTNNISLCESQRHLSPKLLPKRAARLLRQTLTELENAKPISYDSTNSLDRDIRKRKRELVLEQRIQEAFLLFMASILRGYRDFLVPISKAPSVGATDPSALFQLKAFLRSRDKSHQKFFELMMKTQMFIRFIEERSFVSDGDHGLSFFDECAEKVGNYDETPAQLHLVDWDTGQNSERTKYIFPPDSVTPAGSQPGGGGGGLAYNYENFTLQPELLQSTKKTALSKFLQLQLNASLSPGSPIARRTKHEIKLSQKMASRCQQHPEAWSKYLLATCYSLYFLILPSMVLDPRHAGKEPEILRAAYDVLVRASRLKITCDEFCYRIMMQLCGIHNLPVLAVRLHYLMKRSGVQANALTYGFYNRCVLESQWPQDSTTISQIRWNRIKNVVLGAAQFRKAGKQRAASKVNKSLSASQDQNLSTLETVDGQSRTSLASSSGDGGGHGLLDFAAFDRLRNKLGSIVRQTVTGGNNETMGDAVNNTGLLIPGELSAPNTPTYGGDTEILAKALQQQQPRKQIMSIGGGDDDDEDEDEDEYTAGSPSTPQKQLEAGADDLEYAGGGDYEADEEDEDEVDEHVAAQRARQRVQSPTKISPRTPVTQNDPLGALNEEESAASATPTQETQQEQQHSQSQIDSSIYSDKPILFRGQRSATFDESTQIGKSMHRSETMPVASSGVTNSLANIGSSLKFTFGRYSPARLSLKKDLKLPANIIENISSISPSLTGKKSNELIQGSLSSIKSAANSLTKKFDEIKGVISANSTPTKTNNGHHPHGLHHGHHHPHHHHHHHSQHGNAEQEEHDAAVHEEGKLRRVSSDLDPWGRLSESRKSSYNNLVPLGENSSTGALHMHAFPAVPDNLYSLTSENAADRDCDVLIQLTTCSQCHNCSVLVYDEEIMSGWTAEDSNLNTTCHACNKLTVPFLSVQIERQVEESEQSDPLQDGKEQIANGNSHKTSLTVPYLNPLVLRKELENILTQEGDIALIKPEFVDEHPIIYWNLLWLMERIESKTHLPELCLPVPSDKEHIDPLSKVKTVHIQCLWDNLSLHTEASGPPMYLLYRETQPTSPLIKALLTDQAQLNKNVIQQIISAIRCNDFATPLKRLANERHKLKSNGVERSHSFYRDILFLALTAIGRSNVDLATFHREYAAVFDKLTERECNMYYRNQDLPPSASTIFCRAYFRPLLLP |
| 762 | sp|P53618|COPB\_HUMAN | MTAAENVCYTLINVPMDSEPPSEISLKNDLEKGDVKSKTEALKKVIIMILNGEKLPGLLMTIIRFVLPLQDHTIKKLLLVFWEIVPKTTPDGRLLHEMILVCDAYRKDLQHPNEFIRGSTLRFLCKLKEAELLEPLMPAIRACLEHRHSYVRRNAVLAIYTIYRNFEHLIPDAPELIHDFLVNEKDASCKRNAFMMLIHADQDRALDYLSTCIDQVQTFGDILQLVIVELIYKVCHANPSERARFIRCIYNLLQSSSPAVKYEAAGTLVTLSSAPTAIKAAAQCYIDLIIKESDNNVKLIVLDRLIELKEHPAHERVLQDLVMDILRVLSTPDLEVRKKTLQLALDLVSSRNVEELVIVLKKEVIKTNNVSEHEDTDKYRQLLVRTLHSCSVRFPDMAANVIPVLMEFLSDNNEAAAADVLEFVREAIQRFDNLRMLIVEKMLEVFHAIKSVKIYRGALWILGEYCSTKEDIQSVMTEIRRSLGEIPIVESEIKKEAGELKPEEEITVGPVQKLVTEMGTYATQSALSSSRPTKKEEDRPPLRGFLLDGDFFVAASLATTLTKIALRYVALVQEKKKQNSFVAEAMLLMATILHLGKSSLPKKPITDDDVDRISLCLKVLSECSPLMNDIFNKECRQSLSHMLSAKLEEEKLSQKKESEKRNVTVQPDDPISFMQLTAKNEMNCKEDQFQLSLLAAMGNTQRKEAADPLASKLNKVTQLTGFSDPVYAEAYVHVNQYDIVLDVLVVNQTSDTLQNCTLELATLGDLKLVEKPSPLTLAPHDFANIKANVKVASTENGIIFGNIVYDVSGAASDRNCVVLSDIHIDIMDYIQPATCTDAEFRQMWAEFEWENKVTVNTNMVDLNDYLQHILKSTNMKCLTPEKALSGYCGFMAANLYARSIFGEDALANVSIEKPIHQGPDAAVTGHIRIRAKSQGMALSLGDKINLSQKKTSI |
| 763 | sp|Q6QDP7|CR3L2\_RAT | MEVLESGEQSVLQWDRKLSELSEPGETEALMYHTHFSELLDEFSQNVLGQLLNDPFLSEKSVSMEVEPSPTSPAPLIQAEHSYSLSEEPRAQSPFTHVAASDGFNDEEVESEKWYLSTEFPSATIKTEPITEEQPPGLVPSVTLTITAISTPFEKEESPLDMSAGGDSSCQTLIPKIKLEPHEVDQFLNFSPKEASVDQLHLPPTPPSSHSSDSEGSLSPNPRLHPFSLSQAHSPGRAMPRGPSALSTSPLLTAPHKLQGSGPLVLTEEEKRTLIAEGYPIPTKLPLTKSEEKALKKIRRKIKNKISAQESRRKKKEYMDSLEKKVESCSTENLELRKKVEVLENTNRTLLQQLQKLQTLVMGKVSRTCKLAGTQTGTCLMVVVLCFAVAFGSLFQGYGLYPSATKMALPSQHPLSEPYTASVVRSRNLLIYEEHSSLEESSSPASAGELGGWDRGSSLLRASSGLEALPEVDLPHFIISKETSLEKSVLLELQQHLVSSKLEGNETLKVVELERRVNATF |
| 764 | sp|Q8T0G4|CONU\_DROME | MNSNTDLHHSDDQDFSEFLNEYYLQSNSQSIEPEASYEDGEMEAEWLVSAGYPELTKPFEQGLEVSKKDLEPILTTLSKPHAEAIVQLVRTLNKTVRVRTKSRPKRKPDIRDVFREFDEQGTVTRSRSATPDSLDSLQIDEAWTNNSLPTFVNVYEKNTETAIQCVEQSNEIYLKQNLRRTPSAPPKSGTYADIFRGSQVRCDIPLYSADGVELLGYSRIGTIQFPRNRSVSDPFCSIGRSKESRSENDARSQKKKSSEVLSASENECGRLLPMPYNVLSFESICRDSSSLDSCEVLDTCDIPSTLFTDVVLISETDMKRLQTILWLELATIFDRNKVSLDKRKPFKRRRKEEGNLFGVSINALIRRDQQVTGTDSSLVPLFLEKLIGELLRRGSREEGLLRIGGHKQKTELLYNELESTFYQNPDNLDNLFRTATVHELSSLLKRWLRELPQPLLTNELIQLFYQCHTLPSIDQMNALSILCHLLPPENRNTLRSLLSFFNIIINLKDINKMNVHNVATIMAPSMFPPRYIHPSDNNSIAEQVRMAAQCCRLTNILILRGEKLFQVPNNLIVESQKTMMGKKGWHRHRNSNEITAKPSGKASNVGVGHDSTVINKYSTNLKHLHPFVI |
| 765 | sp|P05813|CRBA1\_HUMAN | METQAEQQELETLPTTKMAQTNPTPGSLGPWKITIYDQENFQGKRMEFTSSCPNVSERSFDNVRSLKVESGAWIGYEHTSFCGQQFILERGEYPRWDAWSGSNAYHIERLMSFRPICSANHKESKMTIFEKENFIGRQWEISDDYPSLQAMGWFNNEVGSMKIQSGAWVCYQYPGYRGYQYILECDHHGGDYKHWREWGSHAQTSQIQSIRRIQQ |
| 766 | sp|Q6GUR1|CP1A1\_MACMU | MLFRISMSATEFLLASLIFCLVFWVIRASRPRVPKGLKNPPGPWGWPLIGHILTLGKNPHLALSRMSQRYGDVLQIRIGSTPVLVLSGLDTIRQALVQQGDDFKGRPNLYSFTLISNGQSMSFGPDSGPVWAARRRLAQNGLKSFSIASDPASSSSCYLEEHVSKEAEVLISKLQEQMAGPGHFNPYRYVVISVANVICAICFGQRYDHNHQELLSLVNLSNNFGEVVGSGNPADFIPILRYLPNRSLNGFKDLNEKFHSFMQKMIKEHYKTFEKGHIRDITDSLIEHCQEKQLDENANIQLSDEKIVNVVLDLFGAGFDTVTTAISWSLMYLVTNPRVQRKIQEELDTVIGRSRRPRLSDRSHLPYMEAFILETFRHSSFVPFTIPHSTTRDTSLKGFYIPKGRCVFVNQWQINHDQKLWVNPSEFLPERFITPDGAIDKVLSEKVILFGLGKRKCIGETIARWEVFLFLAILLQRVEFSVPPGVKVDMTPIYGLTMKHACCEHFQMQLRS |
| 767 | sp|Q16678|CP1B1\_HUMAN | MGTSLSPNDPWPLNPLSIQQTTLLLLLSVLATVHVGQRLLRQRRRQLRSAPPGPFAWPLIGNAAAVGQAAHLSFARLARRYGDVFQIRLGSCPIVVLNGERAIHQALVQQGSAFADRPAFASFRVVSGGRSMAFGHYSEHWKVQRRAAHSMMRNFFTRQPRSRQVLEGHVLSEARELVALLVRGSADGAFLDPRPLTVVAVANVMSAVCFGCRYSHDDPEFRELLSHNEEFGRTVGAGSLVDVMPWLQYFPNPVRTVFREFEQLNRNFSNFILDKFLRHCESLRPGAAPRDMMDAFILSAEKKAAGDSHGGGARLDLENVPATITDIFGASQDTLSTALQWLLLLFTRYPDVQTRVQAELDQVVGRDRLPCMGDQPNLPYVLAFLYEAMRFSSFVPVTIPHATTANTSVLGYHIPKDTVVFVNQWSVNHDPLKWPNPENFDPARFLDKDGLINKDLTSRVMIFSVGKRRCIGEELSKMQLFLFISILAHQCDFRANPNEPAKMNFSYGLTIKPKSFKVNVTLRESMELLDSAVQNLQAKETCQ |
| 768 | sp|P17886|CRN\_DROME | MERPQKMPKVAKVKNKAPAEVQITAEQLLREAKERDLEILPPPPKQKISDPAELADYQQRKRKTFEDNLRKNRMVVSHWIKYAQWEEQQQEIQRARSIWERALDNEHRNVTLWLKYAEMEMKNKQVNHARNLWDRAVTIMPRVNQFWYKYTYMEEMLENVAGARQVFERWMEWQPEEQAWQTYVNFELRYKEIDRAREIYERFVYVHPDVKNWIKFARFEESHGFIHGSRRVFERAVEFFGDDYIEERLFIAFARFEEGQKEHDRARIIYKYALDHLPKDRTQELFKAYTKHEKKYGDRAGIEDVIVSKRKYQYEQEVAANPTNYDAWFDYLRLIEAEGDRDQIRETYERAISNVPPANEKNFWRRYIYLWINYALYEELEAEDAERTRQIYKTCLELIPHKQFTFSKLWLLYAQFEIRCKELQRARKALGLAIGMCPRDKLFRGYIDLEIQLREFERCRMLYEKFLEFGPENCVTWMKFAELENLLGDTDRARAIFELAVQQPRLDMPELLWKAYIDFEVALGETELARQLYERLLERTQHVKVWMSFAKFEMGLSHGDSGPDAELNVQLARRIYERANEMLRQLGDKESRVLLLEAWRDFERDASDSQEMQKVMDKMPRRIKKRQKIVSDNGVEEGWEEVFDYIFPEDEMARPNLKLLAAAKMWKTQKDNTVDDPPATAIASEPEPAADAAPADTTDSGD |
| 769 | sp|P20816|CP4A2\_RAT | MGFSVFSPTRSLDGVSGFFQGAFLLSLFLVLFKAVQFYLRRQWLLKALEKFPSTPSHWLWGHNLKDREFQQVLTWVEKFPGACLQWLSGSTARVLLYDPDYVKVVLGRSDPKPYQSLAPWIGYGLLLLNGKKWFQHRRMLTPAFHYDILKPYVKIMADSVSIMLDKWEKLDDQDHPLEIFHYVSLMTLDTVMKCAFSHQGSVQLDVNSRSYTKAVEDLNNLIFFRVRSAFYGNSIIYNMSSDGRLSRRACQIAHEHTDGVIKTRKAQLQNEEELQKARKKRHLDFLDILLFAKMEDGKSLSDEDLRAEVDTFMFEGHDTTASGISWVFYALATHPEHQERCREEVQSILGDGTSVTWDHLDQMPYTTMCIKEALRLYSPVPSVSRELSSPVTFPDGRSIPKGIRVTILIYGLHHNPSYWPNPKVFDPSRFSPDSPRHSHAYLPFSGGARNCIGKQFAMNELKVAVALTLLRFELLPDPTRIPVPMPRLVLKSKNGIHLRLKKLR |
| 770 | sp|P10614|CP51\_YEAST | MSATKSIVGEALEYVNIGLSHFLALPLAQRISLIIIIPFIYNIVWQLLYSLRKDRPPLVFYWIPWVGSAVVYGMKPYEFFEECQKKYGDIFSFVLLGRVMTVYLGPKGHEFVFNAKLADVSAEAAYAHLTTPVFGKGVIYDCPNSRLMEQKKFVKGALTKEAFKSYVPLIAEEVYKYFRDSKNFRLNERTTGTIDVMVTQPEMTIFTASRSLLGKEMRAKLDTDFAYLYSDLDKGFTPINFVFPNLPLEHYRKRDHAQKAISGTYMSLIKERRKNNDIQDRDLIDSLMKNSTYKDGVKMTDQEIANLLIGVLMGGQHTSAATSAWILLHLAERPDVQQELYEEQMRVLDGGKKELTYDLLQEMPLLNQTIKETLRMHHPLHSLFRKVMKDMHVPNTSYVIPAGYHVLVSPGYTHLRDEYFPNAHQFNIHRWNKDSASSYSVGEEVDYGFGAISKGVSSPYLPFGGGRHRCIGEHFAYCQLGVLMSIFIRTLKWHYPEGKTVPPPDFTSMVTLPTGPAKIIWEKRNPEQKI |
| 771 | sp|E9Q5K4|CP2CN\_MOUSE | MELLGLPTLALLVLVMSLSLLSVWTKMRTGGRLPPGPTPLPIIGNILQLDLKDIPASLSKLAKEYGPVYTLYFGSWPTVVLHGYDVVKEALLNQGDEFLGRGPLPIIEDSQKGHGIVFSEGERWKLLRRFSLMTLKNFGMGKRSLEERVQEEARCLVEELHKTEAQPFDPTFILACAPCNVICSILFNERFPYNDKTFLNLMDLLNKNFYQLNSIWIQMYNLWPTIMKYIPGKHREFSKRLGGVKNFILEKVKEHQESLDPANPRDYIDCFLSKIEEEKHNLKSDFNLENLAICGSNLFTAGTETTSTTLRFGLLLLVKHPEVQAKVHEELDRVIGRHQPPSMKDKMKLPYTDAVLHEIQRYITLLPSSLPHAVVQDTKFRHYVIPKGTAVFPFLSSILLDQKEFPNPEKFDPGHFLDKNGCFKKTDYFVPFSLGKRSCVGEGLARMELFLFFTTILQKFSLKALVEPKDLDIKPVTTGLFNLPPPYKLRLVPR |
| 772 | sp|Q5T442|CXG2\_HUMAN | MTNMSWSFLTRLLEEIHNHSTFVGKVWLTVLVVFRIVLTAVGGEAIYSDEQAKFTCNTRQPGCDNVCYDAFAPLSHVRFWVFQIVVISTPSVMYLGYAVHRLARASEQERRRALRRRPGPRRAPRAHLPPPHAGWPEPADLGEEEPMLGLGEEEEEEETGAAEGAGEEAEEAGAEEACTKAVGADGKAAGTPGPTGQHDGRRRIQREGLMRVYVAQLVARAAFEVAFLVGQYLLYGFEVRPFFPCSRQPCPHVVDCFVSRPTEKTVFLLVMYVVSCLCLLLNLCEMAHLGLGSAQDAVRGRRGPPASAPAPAPRPPPCAFPAAAAGLACPPDYSLVVRAAERARAHDQNLANLALQALRDGAAAGDRDRDSSPCVGLPAASRGPPRAGAPASRTGSATSAGTVGEQGRPGTHERPGAKPRAGSEKGSASSRDGKTTVWI |
| 773 | sp|O13790|CUL1\_SCHPO | MTTLNTNDKDLPIVKKYDSLNGTWDFLKTGVSQIFERLDEGMTITKYMELYTAIHNYCADASKTITVDNFNDQTANVLGEALYNNLVLYLEEYLARLRKECISQTNHEEQLAAYAKYWTRFTTSARFINHLFGYLNRYWVKLKNRFTETLVYDIYTLCLVSWHHHVFSHIRDSLLQNLLYMFTKKRLYEPTDMKYVEVCVDSITSLSFDKTDMTKPNLSSYKTFFETNFIENTKNFYAKESSEYLASHSITDYLKKAEIRLAEEEELVRLYLHESTLKPLLEATEDVLIAQHEEVLHNDFARMLDQNCSEDIIRMYRLMSRTPNGLQPLRQTFEEFVKRSGFAAVAKIVPQVGGEADVDPKEYMEMLLSTYKASKELVNTAFHGDTDFTKSLDTAFRELVNRNVVCQRSSSRSPELLAKYADSILRKSNKNVDIDDVEDCLSSIIIIFRYVEDKDVFQNFYTKLLAKRLVNGTSNSQDAESSMLSKLKEVCGFEYTSKLQRMFQDISLSQEITEAFWQLPQSRAGNIDFSALVLGTSFWPLSPNNVNFHLPEELVPLYEGFQNYYYSCHNGRKLSWLFHLSKGEIKARINPQTNVTYVFQVSTYQMGVLLLYNHRDSYTYEELAKITGLSTDFLTGILNIFLKAKVLLLGDNDKLGDPNSTYKINENFRMKKIRVQLNLPIRSEQKQESLETHKTIEEDRKLLLQSAIVRIMKARRTLKHVVLVKETIDQIKSRFTPKVSDIKQCIDMLIEKEYLERQGRDEYIYLA |
| 774 | sp|P0A9G4|CUER\_ECOLI | MNISDVAKITGLTSKAIRFYEEKGLVTPPMRSENGYRTYTQQHLNELTLLRQARQVGFNLEESGELVNLFNDPQRHSADVKRRTLEKVAEIERHIEELQSMRDQLLALANACPGDDSADCPIIENLSGCCHHRAG |
| 775 | sp|P08506|DACC\_ECOLI | MTQYSSLLRGLAAGSAFLFLFAPTAFAAEQTVEAPSVDARAWILMDYASGKVLAEGNADEKLDPASLTKIMTSYVVGQALKADKIKLTDMVTVGKDAWATGNPALRGSSVMFLKPGDQVSVADLNKGVIIQSGNDACIALADYVAGSQESFIGLMNGYAKKLGLTNTTFQTVHGLDAPGQFSTARDMALLGKALIHDVPEEYAIHKEKEFTFNKIRQPNRNRLLWSSNLNVDGMKTGTTAGAGYNLVASATQGDMRLISVVLGAKTDRIRFNESEKLLTWGFRFFETVTPIKPDATFVTQRVWFGDKSEVNLGAGEAGSVTIPRGQLKNLKASYTLTEPQLTAPLKKGQVVGTIDFQLNGKSIEQRPLIVMENVEEGGFFGRVWDFVMMKFHQWFGSWFS |
| 776 | sp|Q5A0W9|CZF1\_CANAL | MSSIPNINWNDPNNGKSNTSRQSQPQPQLPSNVSPPNSRAVPTSGSIGGPQYGSSQFSNEYSRNPNTIGGPPFPLQSNQRGYMPNTGYPVQQTAQQRSGDKLQQVHSQQQQQQQQPLYQQYPPQSVGYLAGDVYNPQHQEYVQMNQLPNQHYNLQQRQQAQGQQLKSQLNEQNAMMSASTQQYPVQDFTNPYPNAQNPAEQQQQQQPLRTQSQQWDGYQSQPLYSAAGNTIPSSIQQQIPPQNLSPSEQQQVKQQQPSPPEQGTKKKPGRKPKLRKLSESSSETPQVPKTASSSSSSPTAVNSGKPITKRSRMGCLTCRQRKKRCCETRPRCTECTRLRLNCTWPKPGTEHKNKPKDQKDDENTIEHAEFGRIKVLRGIVEYRSK |
| 777 | sp|P08574|CY1\_HUMAN | MAAAAASLRGVVLGPRGAGLPGARARGLLCSARPGQLPLRTPQAVALSSKSGLSRGRKVMLSALGMLAAGGAGLAMALHSAVSASDLELHPPSYPWSHRGLLSSLDHTSIRRGFQVYKQVCASCHSMDFVAYRHLVGVCYTEDEAKELAAEVEVQDGPNEDGEMFMRPGKLFDYFPKPYPNSEAARAANNGALPPDLSYIVRARHGGEDYVFSLLTGYCEPPTGVSLREGLYFNPYFPGQAIAMAPPIYTDVLEFDDGTPATMSQIAKDVCTFLRWASEPEHDHRKRMGLKMLMMMALLVPLVYTIKRHKWSVLKSRKLAYRPPK |
| 778 | sp|P31786|ACBP\_MOUSE | MSQAEFDKAAEEVKRLKTQPTDEEMLFIYSHFKQATVGDVNTDRPGLLDLKGKAKWDSWNKLKGTSKESAMKTYVEKVDELKKKYGI |
| 779 | sp|Q920P6|ADA\_RAT | MAQTPAFNKPKVELHVHLDGAIKPETILYYGKKRGIDLPADTVEGLRNIIGMDKPLSLPDFLAKFDYYMPAIAGCREAIKRIAYEFVEMKAKEGVVYVEVRYSPHLLANSKVDPIPWNQAEGDLTPDEVVDLVNQGLQEGEQAFGIKVRSILCCMRHQPSWSPEVLELCKKYHQKTVVAMDLAGDETIEGSSLFPGHVEAYEGAVKDGIHRTVHAGEVGSAEVVREAVDILKTERVGHGYHTIEDEALYNRLLKENMHFEVCPWSSYLTGAWNPKTTHAVVRFKDDQANYSLNSDDPLIFKSTVDTDYQMVKKDMGFTEEEFKRLNINAAKSSFLPEDEKKELLERLYKEYQ |
| 780 | sp|Q7PLK0|AGO3\_DROME | MSGRGNLLSLFNKNAGNMGKSISSKDHEIDSGLDFNNSESSGERLLSSHNIETDLITTLQHVNISVGRGRARLIDTLKTDDHTSNQFITSESKENITKKTKGPESEAIASENGLFFPDLIYGSKGSSVNIYCNYLKLTTDESKGVFNYEVRFFPPIDSVHLRIKYLNDHKDKLGGTKTFDGNTLYLPILLPNKMTVFISKAEDVELQIRILYKKKEEMRNCTQLYNILFDRVMKVLNYVKFDRKQFDPSRPKIIPLAKLEVWPGYVTAVDEYKGGLMLCCDVSHRILCQKTVLEMLVDLYQQNVEHYQESARKMLVGNIVLTRYNNRTYKINDICFDQNPTCQFEIKTGCTSYVEYYKQYHNINIKDVNQPLIYSIKKSRGIPAERENLQFCLIPELCYLTGLRDEVRSDNKLMREIATFTRVSPNQRQMALNKFYENVSNTPAAQEILNSWGLSLTNNSNKISGRQMDIEQIYFSKISVSAGRSAEFSKHAVTNEMLKVVHLSKWIIIHLRNYRQAATSLLDNMKQACESLGMNISNPTMISLDHDRIDAYIQALRRNITMNTQMVVCICHNRRDDRYAAIKKICCSEIPIPSQVINAKTLQNDLKIRSVVQKIVLQMNCKLGGSLWTVKIPFKNVMICGIDSYHDPSNRGNSVAAFVASINSSYSQWYSKAVVQTKREEIVNGLSASFEIALKMYRKRNGKLPTNIIIYRDGIGDGQLYTCLNYEIPQFEMVCGNRIKISYIVVQKRINTRIFSGSGIHLENPLPGTVVDQHITKSNMYDFFLVSQLVRQGTVTPTHYVVLRDDCNYGPDIIQKLSYKLCFLYYNWAGTVRIPACCMYAHKLAYLIGQSIQRDVAEALSEKLFYL |
| 781 | sp|O88848|ARL6\_MOUSE | MGLLDRLSGLLGLKKKEVHVLCLGLDNSGKTTIINKLKPSNAQSQDIVPTIGFSIEKFKSSSLSFTVFDMSGQGRYRNLWEHYYKDGQAIIFVIDSSDKLRMVVAKEELDTLLNHPDIKHRRIPILFFANKMDLRDSVTSVKVSQLLCLESIKDKPWHICASDAIKGEGLQEGVDWLQDQIQAVKT |
| 782 | sp|Q8N6T3|ARFG1\_HUMAN | MASPRTRKVLKEVRVQDENNVCFECGAFNPQWVSVTYGIWICLECSGRHRGLGVHLSFVRSVTMDKWKDIELEKMKAGGNAKFREFLESQEDYDPCWSLQEKYNSRAAALFRDKVVALAEGREWSLESSPAQNWTPPQPRTLPSMVHRVSGQPQSVTASSDKAFEDWLNDDLGSYQGAQGNRYVGFGNTPPPQKKEDDFLNNAMSSLYSGWSSFTTGASRFASAAKEGATKFGSQASQKASELGHSLNENVLKPAQEKVKEGKIFDDVSSGVSQLASKVQGVGSKGWRDVTTFFSGKAEGPLDSPSEGHSYQNSGLDHFQNSNIDQSFWETFGSAEPTKTRKSPSSDSWTCADTSTERRSSDSWEVWGSASTNRNSNSDGGEGGEGTKKAVPPAVPTDDGWDNQNW |
| 783 | sp|Q91ZV8|AGRA2\_MOUSE | MGAGGRRMPVPPARLLLLPLLPCLLLLAPGTRGAPGCPVPIRGCKCSGERPKGLSGGAHNPARRRVVCGGGDLPEPPDPGLLPNGTITLLLSNNKITGLRNGSFLGLSLLEKLDLRSNVISTVQPGAFLGLGELKRLDLSNNRIGCLTSETFQGLPRLLRLNISGNIYSSLQPGVFDELPALKIVDFGTEFLTCDCRLRWLLPWARNHSLQLSERTLCAYPSALHAHALSSLQESQLRCEGALELHTHYLIPSLRQVVFQGDRLPFQCSASYLGNDTRIHWYHNGAPMESDEQAGIVLAENLIHDCTFITSELTLSHIGVWASGEWECSVSTVQGNTSKKVEIVVLETSASYCPAERVTNNRGDFRWPRTLAGITAYQSCLQYPFTSVPLSGGAPGTRASRRCDRAGRWEPGDYSHCLYTNDITRVLYTFVLMPINASNALTLAHQLRVYTAEAASFSDMMDVVYVAQMIQKFLGYVDQIKELVEVMVDMASNLMLVDEHLLWLAQREDKACSGIVGALERIGGAALSPHAQHISVNSRNVALEAYLIKPHSYVGLTCTAFQRREVGVSGAQPSSVGQDAPVEPEPLADQQLRFRCTTGRPNISLSSFHIKNSVALASIQLPPSLFSTLPAALAPPVPPDCTLQLLVFRNGRLFRSHGNNTSRPGAAGPGKRRGVATPVIFAGTSGCGVGNLTEPVAVSLRHWAEGADPMAAWWNQDGPGGWSSEGCRLRYSQPNVSSLYCQHLGNVAVLMELNAFPREAGGSGAGLHPVVYPCTALLLLCLFSTIITYILNHSSIHVSRKGWHMLLNLCFHMAMTSAVFVGGVTLTNYQMVCQAVGITLHYSSLSSLLWMGVKARVLHKELSWRAPPLEEGEAAPPGPRPMLRFYLIAGGIPLIICGITAAVNIHNYRDHSPYCWLVWRPSLGAFYIPVALILPITWIYFLCAGLHLRSHVAQNPKQGNRISLEPGEELRGSTRLRSSGVLLNDSGSLLATVSAGVGTPAPPEDGDGVYSPGVQLGALMTTHFLYLAMWACGALAVSQRWLPRVVCSCLYGVAASALGLFVFTHHCARRRDVRASWRACCPPASPSASHVPARALPTATEDGSPVLGEGPASLKSSPSGSSGRAPPPPCKLTNLQVAQSQVCEASVAARGDGEPEPTGSRGSLAPRHHNNLHHGRRVHKSRAKGHRAGETGGKSRLKALRAGTSPGAPELLSSESGSLHNSPSDSYPGSSRNSPGDGLPLEGEPMLTPSEGSDTSAAPIAETGRPGQRRSASRDNLKGSGSALERESKRRSYPLNTTSLNGAPKGGKYEDASVTGAEAIAGGSMKTGLWKSETTV |
| 784 | sp|P35368|ADA1B\_HUMAN | MNPDLDTGHNTSAPAHWGELKNANFTGPNQTSSNSTLPQLDITRAISVGLVLGAFILFAIVGNILVILSVACNRHLRTPTNYFIVNLAMADLLLSFTVLPFSAALEVLGYWVLGRIFCDIWAAVDVLCCTASILSLCAISIDRYIGVRYSLQYPTLVTRRKAILALLSVWVLSTVISIGPLLGWKEPAPNDDKECGVTEEPFYALFSSLGSFYIPLAVILVMYCRVYIVAKRTTKNLEAGVMKEMSNSKELTLRIHSKNFHEDTLSSTKAKGHNPRSSIAVKLFKFSREKKAAKTLGIVVGMFILCWLPFFIALPLGSLFSTLKPPDAVFKVVFWLGYFNSCLNPIIYPCSSKEFKRAFVRILGCQCRGRGRRRRRRRRRLGGCAYTYRPWTRGGSLERSQSRKDSLDDSGSCLSGSQRTLPSASPSPGYLGRGAPPPVELCAFPEWKAPGALLSLPAPEPPGRRGRHDSGPLFTFKLLTEPESPGTDGGASNGGCEAAADVANGQPGFKSNMPLAPGQF |
| 785 | sp|H2L0N8|ARL13\_CAEEL | MTEKSWFETIFCCCCHRTPIIRREIKLGCFGIGSAGKTTFLKVLKGEDPRDLLRTNGFSTVKMEYDETFHLTIYDVGGDKGIRGIWSNYYAEVHGIIYVIDYSTDETFTESIEALHSLTSNPHVQKKPIFLLLNNQNNREFDDVEISNETKIQAGQHKIVLFSHFNKYNGYLDNIKSATLTVMARAKKDRNEYQEQFVRFIDSISEHYVELSEGVKTAELALRIRQEEAKEQRRLMQMKVEHDALKADVAGLELRNQPPVQPPIPPDPPSDPKSASVHIEESPPMSLASSTIPSDIIQSTPETGTPRDPVNFCRISQTSTKPVSPESNSVKEEPTIILKDNYFLPPKAPGRQYSRIQRIQNVLNNRVVPK |
| 786 | sp|G5BWH8|APOA2\_HETGA | MKLLAMTVLLVTICSLDGALVRRQAEEPDLQGLFSQYFQTVTSYGKDLLQKTKPQDLQAQVQSYFEKTQEQLVPLVKKAGTELFNMLSNMIELKKTQPATA |
| 787 | sp|P18089|ADA2B\_HUMAN | MDHQDPYSVQATAAIAAAITFLILFTIFGNALVILAVLTSRSLRAPQNLFLVSLAAADILVATLIIPFSLANELLGYWYFRRTWCEVYLALDVLFCTSSIVHLCAISLDRYWAVSRALEYNSKRTPRRIKCIILTVWLIAAVISLPPLIYKGDQGPQPRGRPQCKLNQEAWYILASSIGSFFAPCLIMILVYLRIYLIAKRSNRRGPRAKGGPGQGESKQPRPDHGGALASAKLPALASVASAREVNGHSKSTGEKEEGETPEDTGTRALPPSWAALPNSGQGQKEGVCGASPEDEAEEEEEEEEEEEECEPQAVPVSPASACSPPLQQPQGSRVLATLRGQVLLGRGVGAIGGQWWRRRAQLTREKRFTFVLAVVIGVFVLCWFPFFFSYSLGAICPKHCKVPHGLFQFFFWIGYCNSSLNPVIYTIFNQDFRRAFRRILCRPWTQTAW |
| 788 | sp|P38700|APM2\_YEAST | MSSSLFILDENLEPLVSKNIRALPNLSSVLSSFKQCYHDGSPPILSQNDWFFIHLKRDFLHFVSVIHTTDKPNIDLMTILAFLEQFYHLLQKYFEIEVLTKNVILDNILLVLELIDECIDFGIVQVTDPSIIKDYIRVKVNVPRVTVDNEEWSPGEESSSSSGSDSDSEYSNTNKRKDKKKKRKKKKGTKGKSVGKSKLKSIMVNNKENRGINVVETVKETLRNKNDTGKEAANDELPNDGNDLYINGDIAKTIIMPISWRTKGIHYAKNEFFLDVIERVQYLMDFEKGVIRKNLIHGEIVCRCYLSGMPKLKISINKILNRDPQFMSNSSFHQCVSLDSINTIEKDEEKNSDDDAGLQAATDAREIEFIPPDGEFVLCQYELKRHVKDAPMVRLKDFEIKPKLKKFKIQIVTKIQTNFKPTNSTSKLNVRIPLTKVFQEYKIDLSKQIRFKANIGKVVFNLSDDFLLWEIQTMKGHREHSTNKSSQYNSDEDDPNTCASMVAEFPLFNQEEYDRLQEEMKTSMNPPPLRTGPRLEELYRQVHDQQTSHVTPRDKLVNIDFEIPYCTCSGLKVEYLKVEEPQLQYQSFPWVRYKTVSDEEYAYIV |
| 789 | sp|Q12142|ATG9\_YEAST | MERDEYQLPNSHGKNTFLSRIFGLQSDEVNPSLNSQEMSNFPLPDIERGSSLLHSTNDSREDVDENDLRVPESDQGTSTEEEDEVDEEQVQAYAPQISDGLDGDHQLNSVTSKENVLETEKSNLERLVEGSTDDSVPKVGQLSSEEEEDNEFINNDGFDDDTPLFQKSKIHEFSSKKSNTIEDGKRPLFFRHILQNNRPQRDTQKLFTSSNAIHHDKDKSANNGPRNINGNQKHGTKYFGSATQPRFTGSPLNNTNRFTKLFPLRKPNLLSNISVLNNTPEDRINTLSVKERALWKWANVENLDIFLQDVYNYYLGNGFYCIILEKILNICTLLFVVFVSTYMGHCVDYSKLPTSHRVSDIIIDKCYSNSITGFTKFFLWMFYFFVILKIVQLYFDVQKLSELQNFYKYLLNISDDELQTLPWQNVIQQLMYLKDQNAMTANVVEVKAKNRIDAHDVANRIMRRENYLIALYNSDILNLSLPIPLFRTNVLTKTLEWNINLCVMGFVFNESGFIKQSILKPSQREFTREELQKRFMLAGFLNIILAPFLVTYFVLLYFFRYFNEYKTSPGSIGARQYTPIAEWKFREYNELYHIFKKRISLSTTLANKYVDQFPKEKTNLFLKFVSFICGSFVAILAFLTVFDPENFLNFEITSDRSVIFYITILGAIWSVSRNTITQEYHVFDPEETLKELYEYTHYLPKEWEGRYHKEEIKLEFCKLYNLRIVILLRELTSLMITPFVLWFSLPSSAGRIVDFFRENSEYVDGLGYVCKYAMFNMKNIDGEDTHSMDEDSLTKKIAVNGSHTLNSKRRSKFTAEDHSDKDLANNKMLQSYVYFMDDYSNSENLTGKYQLPAKKGYPNNEGDSFLNNKYSWRKQFQPGQKPELFRIGKHALGPGHNISPAIYSTRNPGKNWDNNNNGDDIKNGTNNATAKNDDNNGNNDHEYVLTESFLDSGAFPNHDVIDHNKMLNSNYNGNGILNKGGVLGLVKEYYKKSDVGR |
| 790 | sp|P02749|APOH\_HUMAN | MISPVLILFSSFLCHVAIAGRTCPKPDDLPFSTVVPLKTFYEPGEEITYSCKPGYVSRGGMRKFICPLTGLWPINTLKCTPRVCPFAGILENGAVRYTTFEYPNTISFSCNTGFYLNGADSAKCTEEGKWSPELPVCAPIICPPPSIPTFATLRVYKPSAGNNSLYRDTAVFECLPQHAMFGNDTITCTTHGNWTKLPECREVKCPFPSRPDNGFVNYPAKPTLYYKDKATFGCHDGYSLDGPEEIECTKLGNWSAMPSCKASCKVPVKKATVVYQGERVKIQEKFKNGMLHGDKVSFFCKNKEKKCSYTEDAQCIDGTIEVPKCFKEHSSLAFWKTDASDVKPC |
| 791 | sp|A1A5B4|ANO9\_HUMAN | MQGEESLRILVEPEGDSFPLMEISTCETEASEQWDYVLVAQRHTQRDPRQARQQQFLEELRRKGFHIKVIRDQKQVFFGIRADNSVFGLYRTLLLEPEGPAPHAELAAPTTIPVTTSLRIRIVNFVVMNNKTSAGETFEDLMKDGVFEARFPLHKGEGRLKKTWARWRHMFREQPVDEIRNYFGEKVALYFVWLGWYTYMLVPAALTGLLVFLSGFSLFEASQISKEICEAHDILMCPLGDHSRRYQRLSETCTFAKLTHLFDNDGTVVFAIFMALWATVFLEIWKRQRARVVLHWDLYVWDEEQEEMALQLINCPDYKLRPYQHSYLRSTVILVLTLLMICLMIGMAHVLVVYRVLASALFSSSAVPFLEEQVTTAVVVTGALVHYVTIIIMTKINRCVALKLCDFEMPRTFSERESRFTIRFFTLQFFTHFSSLIYIAFILGRINGHPGKSTRLAGLWKLEECHASGCMMDLFVQMAIIMGLKQTLSNCVEYLVPWVTHKCRSLRASESGHLPRDPELRDWRRNYLLNPVNTFSLFDEFMEMMIQYGFTTIFVAAFPLAPLLALFSNLVEIRLDAIKMVWLQRRLVPRKAKDIGTWLQVLETIGVLAVIANGMVIAFTSEFIPRVVYKYRYSPCLKEGNSTVDCLKGYVNHSLSVFHTKDFQDPDGIEGSENVTLCRYRDYRNPPDYNFSEQFWFLLAIRLAFVILFEHVALCIKLIAAWFVPDIPQSVKNKVLEVKYQRLREKMWHGRQRLGGVGAGSRPPMPAHPTPASIFSARSTDV |
| 792 | sp|O70511|ANK3\_RAT | MAHAASQLKKNRDLEINAEEETEKKKKHRKRSRDRKKKSDANASYLRAARAGHLEKALDYIKNGVDVNICNQNGLNALHLASKEGHVEVVSELLQREANVDAATKKGNTALHIASLAGQAEVVKVLVTNGANVNAQSQNGFTPLYMAAQENHLEVVRFLLDNGASQSLATEDGFTPLAVALQQGHDQVVSLLLENDTKGKVRLPALHIAARKDDTKAAALLLQNDTNADIESKMVVNRATESGFTPLHIAAHYGNINVATLLLNRAAAVDFTARNDITPLHVASKRGNANMVKLLLDRGAKIDAKTRDGLTPLHCGARSGHEQVVEMLLDRAAPILSKTKNGLSPLHMATQGDHLNCVQLLLQHNVPVDDVTNDYLTALHVAAHCGHYKVAKVLLDKKANPNAKALNGFTPLHIACKKNRIRVMELLLKHGASIQAVTESGLTPIHVAAFMGHVNIVSQLMHHGASPNTTNVRGETALHMAARSGQAEVVRYLVQDGAQVEAKAKDDQTPLHISARLGKADIVQQLLQQGASPNAATTSGYTPLHLSAREGHEDVAAFLLDHGASLSITTKKGFTPLHVAAKYGKLEVASLLLQKSASPDAAGKSGLTPLHVAAHYDNQKVALLLLDQGASPHAAAKNGYTPLHIAAKKNQMDIATSLLEYGADANAVTRQGIASVHLAAQEGHVDMVSLLLSRNANVNLSNKSGLTPLHLAAQEDRVNVAEVLVNQGAHVDAQTKMGYTPLHVGCHYGNIKIVNFLLQHSAKVNAKTKNGYTPLHQAAQQGHTHIINVLLQNNASPNELTVNGNTALAIARRLGYISVVDTLKVVTEEIMTTTTITEKHKMNVPETMNEVLDMSDDEVGKASAPEKLSDGEYISDGEEGEDAITGDTDKYLGPQDLKELGDDSLPAEGYVGFSLGARSASLRSFSSDRSYTLNRSSYARDSMMIEELLVPSKEQHLPFTREFDSDSLRHYSWAADTLDNVNLVSSPVHSGFLVSFMVDARGGSMRGSRHHGMRIIIPPRKCTAPTRITCRLVKRHKLANPPPMVEGEGLASRLVEMGPAGAQFLGPVIVEIPHFGSMRGKERELIVLRSENGETWKEHQFDSKNEDLSELLNGMDEELDSPEELGTKRICRIITKDFPQYFAVVSRIKQESNQIGPEGGILSSTTVPLVQASFPEGALTKRIRVGLQAQPVPEETVKKILGNKATFSPIVTVEPRRRKFHKPITMTIPVPPPSGEGVSNGYKGDTTPSLRLLCSITGGTSPAQWEDITGTTPLTFIKDCVSFTTNVSARFWLADCHQVLETVGLASQLYRELICVPYMAKFVVFAKTNDPVESSLRCFCMTDDRVDKTLEQQENFEEVARSKDIEVLEGKPIYVDCYGNLAPLTKGGQQLVFNFYSFKENRLPFSIKVRDTSQEPCGRLSFLKEPKTTKGLPQTAVCNLNITLPAHKKAEKADRRQSFTSLALRKRYSYLTEPSMKTVERSSGTARSLPTTYSHKPFFSTRPYQSWTTTPITVPGPAKSGSLSSSPSNTPSASPLKSIWSVSTPSPIKSTLGASTTSSVKSISDVASPIRSFRTISSPIRTVASPSPYNTQVASGTLGRVPTITEATPIKGVAPNSTLSSRTSPVTTAGSLLEKSSITMTPPASPKANITMYSSSLPFKSIITSAAPLISSPLKSVVSPTKSAADVISTAKAAMASTLSSPLKQMSGHAEVALVNGSVSPLKYPSSSALINGCKATATLQDKISTATNAVSSVVSAAPDTVEKALSTTTAMPFSPLRSYVSAAAPSAFQSLRAPSASALYNSLGPSVGVTTSSVTSSIITVPVYSVGNVLAEPALKKLPDSNSLTKSAAALLSPIKTLTTETRPQPHFNRTSSPVKSSLFLASSALKPSVPSSLSSSQEILKDVAEMKEDLMRMTAILQTDVPEEKPFQTDLPREGRIDDEEPFKIVEKVKEDLVKVSEILKKDVCVESKGPPKSPKSDKGHSPEDDWTEFSSEEIREARQAAASHAPSLPERVHGKANLTRVIDYLTNDIGSSSLTNLKYKFEEAKKEGEERQKRILKPAMALQEHKLKMPPASMRPSTSEKELCKMADSFFGTDAILESPDDFSQHDQDKSPLSDSGFETRSEKTPSAPQSAESTGPKPLFHEVPIPPVITETRTEVVHVIRSYEPSTGEIPQSQPEDPVSPKPPPTFMELEPKPTALSIKEKVKAFQMKASSEEEDHSRVLSKGMRVKEETHITTTTRMVYHSPPGSECASERIEETMSVHDIMKAFQSGRDPSKELAGLFEHKSAMSPDVAKSAAETSAQHAEKDNQMKPKLERIIEVHIEKGPQSPCERTDIRMAIVADHLGLSWTELARELNFSVDEINQIRVENPNSLISQSFMLLKKWVTRDGKNATTDALTSVLTKINRIDIVTLLEGPIFDYGNISGTRSFADENNVFHDPVDGWQNETPSGSLESPAQARRITGGLLDRLDDSSDQVRDPITSYLTGEAGKFEANGNHAEVIPEAKAKAYFPESQNDIGKQSIKENLKPKTHGCGRAEEPVSPLTAYQKSLEETSKLVIEDAPKPCVPVGMKKMTRTPADGKARLNLQEEEGSARSEPKQGEGYKVKTKKEIRNVEKKAH |
| 793 | sp|P11859|ANGT\_MOUSE | MTPTGAGLKATIFCILTWVSLTAGDRVYIHPFHLLYHNKSTCAQLENPSVETLPESTFEPVPIQAKTSPVNEKTLHDQLVLAAEKLEDEDRKRAAQVAMIANFVGFRMYKMLNEAGSGASGAILSPPALFGTLVSFYLGSLDPTASQLQTLLDVPVKEGDCTSRLDGHKVLAALRAVQGLLVTQGGSSSQTPLLQSIMVGLFTAPGFRLKHSFVQSLALFTPALFPRSLDLSTDPVLATEKINRFIKAVTGWKMNLPLEGVSTDSTLLFNTYVHFQGTMRGFSQLPGVHEFWVDNSISVSVPMISGTGNFQHWSDAQNNFSVTCVPLGERATLLLIQPHCTSDLDRVEALIFRNDLLTWIENPPPRAIRLTLPQLEIRGSYNLQDLLAEDKLPTLLGAEANLSNIGDTNPRVGEVLNSILLELKAGEEEQPTTSVQQPGSPEALDVTLSSPFLFAIYEQDSGTLHFLGRVNNPQSVV |
| 794 | sp|P32390|ARP3\_SCHPO | MASFNVPIIMDNGTGYSKLGYAGNDAPSYVFPTVIATRSAGASSGPAVSSKPSYMASKGSGHLSSKRATEDLDFFIGNDALKKASAGYSLDYPIRHGQIENWDHMERFWQQSLFKYLRCEPEDHYFLLTEPPLNPPENRENTAEIMFESFNCAGLYIAVQAVLALAASWTSSKVTDRSLTGTVVDSGDGVTHIIPVAEGYVIGSSIKTMPLAGRDVTYFVQSLLRDRNEPDSSLKTAERIKEECCYVCPDIVKEFSRFDREPDRYLKYASESITGHSTTIDVGFERFLAPEIFFNPEIASSDFLTPLPELVDNVVQSSPIDVRKGLYKNIVLSGGSTLFKNFGNRLQRDLKRIVDERIHRSEMLSGAKSGGVDVNVISHKRQRNAVWFGGSLLAQTPEFGSYCHTKADYEEYGASIARRYQIFGNSL |
| 795 | sp|Q00969|ATF2\_RAT | MSDDKPFLCTAPGCGQRFTNEDHLAVHKHKHEMTLKFGPARNDSVIVADQTPTPTRFLKNCEEVGLFNELASPFENEFKKASEDDIKKMPLDLSPLATPIIRSKIEEPSVVETTHQDSPLPHPESTTNDEKEIPLAQTAQPTSAIVRPASLQVPNVLLTSSDSSVIIQQAVPSPTSSTVITQAPSSNRPIVPVPGPFPLLLHLPNGQTMPVAIPASITSSNVHVPAAVPLVRPVTMVPSVPGIPGPSSPQPVQSEAKMRLKAALTQQHPPVTNGDTVKGHGSGLVRAQSEESRPQSLQQPATSTTETPASPAHTTPQTQNTSGRRRRAANEDPDEKRRKFLERNRAAASRCRQKRKVWVQSLEKKAEDLSSLNGQLQSEVTLLRNEVAQLKQLLLAHKDCPVTAMQKKSGYHTADKDDSSEDLSVPSSPHTEAIQHSSVSTSNGVSSTSKTEAGATSVLTQMADQSTEPALSQIVMAPSSQAQPSGS |
| 796 | sp|Q8N5I2|ARRD1\_HUMAN | MGRVQLFEISLSHGRVVYSPGEPLAGTVRVRLGAPLPFRAIRVTCIGSCGVSNKANDTAWVVEEGYFNSSLSLADKGSLPAGEHSFPFQFLLPATAPTSFEGPFGKIVHQVRAAIHTPRFSKDHKCSLVFYILSPLNLNSIPDIEQPNVASATKKFSYKLVKTGSVVLTASTDLRGYVVGQALQLHADVENQSGKDTSPVVASLLQKVSYKAKRWIHDVRTIAEVEGAGVKAWRRAQWHEQILVPALPQSALPGCSLIHIDYYLQVSLKAPEATVTLPVFIGNIAVNHAPVSPRPGLGLPPGAPPLVVPSAPPQEEAEAEAAAGGPHFLDPVFLSTKSHSQRQPLLATLSSVPGAPEPCPQDGSPASHPLHPPLCISTGATVPYFAEGSGGPVPTTSTLILPPEYSSWGYPYEAPPSYEQSCGGVEPSLTPES |
| 797 | sp|Q8WYN0|ATG4A\_HUMAN | MESVLSKYEDQITIFTDYLEEYPDTDELVWILGKQHLLKTEKSKLLSDISARLWFTYRRKFSPIGGTGPSSDAGWGCMLRCGQMMLAQALICRHLGRDWSWEKQKEQPKEYQRILQCFLDRKDCCYSIHQMAQMGVGEGKSIGEWFGPNTVAQVLKKLALFDEWNSLAVYVSMDNTVVIEDIKKMCRVLPLSADTAGDRPPDSLTASNQSKGTSAYCSAWKPLLLIVPLRLGINQINPVYVDAFKECFKMPQSLGALGGKPNNAYYFIGFLGDELIFLDPHTTQTFVDTEENGTVNDQTFHCLQSPQRMNILNLDPSVALGFFCKEEKDFDNWCSLVQKEILKENLRMFELVQKHPSHWPPFVPPAKPEVTTTGAEFIDSTEQLEEFDLEEDFEILSV |
| 798 | sp|Q64541|AT1A4\_RAT | MEPGKETAATSEQKPRPTLRASNTNRQPKVKRRKKDLEELKKEVVMDDHKLTLDELSAKYSVDLTKGLSVTDAQEILTLNGPNVLTPPPTTPEWIKFCKQLFGGFSLLLWTGSLLCFLAYGIHVSYYQENANKDNLYLGIVLSAVVIITGCFSYYQEAKSSKIMESFKTMVPQQALVIRDGEKMQINVRDVVLGDLVEVKGGDQVPADIRVIAAQGCKVDNSSLTGESEPQSRCPDCTHENPLETRNIIFFSTNCVEGTARGVVIATGDHTVMGRIASLTSGLTMGKTPIATEIEHFIHIITAVAVFLGVTFFFLSLILGYTWLDAVIFLIGIIVANVPEGLLATVTVCLTLTAKRMARKNCLVKNLEAVETLGSTSTICSDKTGTLTQNRMTVAHLWFDKTVYEADTSEEQTTGKTFPKSSDTWFYLARIAGLCNRADFKPHQESLPITKRTTTGDASESALLKFIEQSYSPVSEMRQKNPKVAEIPFNSTNKYQMSIHLLEDNSEAHVLLMKGAPERILDFCSSFLLNGQEYPMDEEMKTDFQNAYIELGGLGERVLGFCFLNLPSNFSKGFQFNTEELNFPMENLCFAGLISMIDPPRTAVPDAVSKCRSAGIKVIMVTGDHPITAKAIAKSVGIISEANETAEDIAARLNISISQVSNKSIKAIVVHGSELKDMDSGQLDNILKSYKEIVFARTSPQQKLIIVEGCQRLGAIVAVTGDGVNDSPALKKADIGIAMGITGSDVSKQAADMILLDDNFASIVTGVEEGRLIFDNLKKSIAYTLTSNIPEITPFLLFIVLSIPLPLGTITILCIDLGTDMVPAISLAYETPESDIMKRLPRNPKTDNLVNDRLIGMAYGQIGMIQALAGFFTYFVILAENGFKPLDLLGIRLYWDDTNLNDLEDTYGQQWTYEQRKVVEFTCQTAFFISIVIVQWADLIICKTRRNSLFKQGMKNKVLIFGLLEETILAACLSYIPGMDVALRMYPLKINWWFCALPYSVLIFIYDEVRKLIIRRRPGGWLEKETYY |
| 799 | sp|Q9Y294|ASF1A\_HUMAN | MAKVQVNNVVVLDNPSPFYNPFQFEITFECIEDLSEDLEWKIIYVGSAESEEYDQVLDSVLVGPVPAGRHMFVFQADAPNPGLIPDADAVGVTVVLITCTYRGQEFIRVGYYVNNEYTETELRENPPVKPDFSKLQRNILASNPRVTRFHINWEDNTEKLEDAESSNPNLQSLLSTDALPSASKGWSTSENSLNVMLESHMDCM |
| 800 | sp|Q940Z2|ARP5\_ARATH | MAFVSRIRRQSDYNTYPSSIPIVIDNGASYFRIGWAGETEPRVVFRNIVQRPRHKATGETVTIVGDLDPSMMKYFDCTRSGPRSPFDSNVVYQFEIMEYILDYAFDRLGANGSGIDHPILITECACNPVQSRSKMAELLFETYGVPAVAFGVDAAFSYKYNQLHGICKKDGIVLCPGFTTTHSIPFVDGEPIYKGSSRTNIGGYHVTDYLKQLLSLKYPFHSSRFTWEKAEDLKLEHCYIAPDYASEIRLFQEGRKEAEEKTSYWQLPWIPPPTEVPPSEEEIARKAAIREKQGQRLREMAEAKRVSKINDMENQLISLRFLLKQVDQVEEDDIPTFLSDTGYASRQELESTITKVTQSLRKARGEPKNEPAEYEENPDSLNNEKYPLMNVPDDILTPEQLKDKKRQMFLKTTAEGRLRARQKRNEEELEKEKRNQLEEERRRENPESYLEELQAQYKEVLERVEQKKRLKTNGSSNGNNKSGGIGRGERLSAAQRERMRLLTTAAFDRGKGEDTFGSRDEDWQLYKLMSKDNDDDDEQPDSDEAELARLSSRLQEIDPTFVQKVEGELSQTSGEVPRVRPLTEEDYKIVIGIERFRCPEILFHPNLIGIDQVGLDEMAGTSIRRLPHDEKELEERLTSSILMTGGCSLLPGMNERLECGIRMIRPCGSPINVVRAMDPVLDAWRGASAFAANLNFLGNAFTKMDYDEKGEDWLRNYQIRYNYL |
| 801 | sp|Q17QB3|ASAH1\_BOVIN | MLGWSRLTFILLSGIVTCLVAQQVPPWTEDCRKSTYPPSGPTYRGPVPWYTINLDLPPYKRWHELMVVKAPALKVIVNSMKNIVNAFVPSGKIIHLVDQKLPGLLGNFPGPFEEEMKGIAAVTEIPLGEIILFNIFYEFFTICTSIITEDKEGHLLHGRNLDFGVFLGWNINNDTWVITEELKPLTVNLDFQRNNKTLFKATTFAGYVGMLTGFKPGLFSVTLNERFSIDGGFMGVMEWILGKKDAQWVGFIIRSVLENSTSYEETKNILTKTKILAPAYFILGGNQSGEGCVITRDRKQSLDIYELDPKHGRWYVVQTNYDRWKNPFFLDDRRTPAKMCLNQTTQENISFATIYDVLSTKPILNKLTVYTVLIDVTKGQFETYLRDCPDPCIGW |
| 802 | sp|P17870|ARRB1\_BOVIN | MGDKGTRVFKKASPNGKLTVYLGKRDFVDHIDLVEPVDGVVLVDPEYLKERRVYVTLTCAFRYGREDLDVLGLTFRKDLFVANVQSFPPAPEDKKPLTRLQERLIKKLGEHAYPFTFEIPPNLPCSVTLQPGPEDTGKACGVDYEVKAFCAENLEEKIHKRNSVRLVIRKVQYAPERPGPQPTAETTRQFLMSDKPLHLEASLDKEIYYHGEPISVNVHVTNNTNKTVKKIKISVRQYADICLFNTAQYKCPVAMEEADDTVAPSSTFCKVYTLTPFLANNREKRGLALDGKLKHEDTNLASSTLLREGANREILGIIVSYKVKVKLVVSRGGLLGDLASSDVAVELPFTLMHPKPKEEPPHREVPEHETPVDTNLIELDTNDDDIVFEDFARQRLKGMKDDKEEEEDGTGSPRLNDR |
| 803 | sp|P32120|ARRB2\_BOVIN | MGEKPGTRVFKKSSPNCKLTVYLGKRDFVDHLDKVDPVDGVVLVDPDYLKDRKVFVTLTCAFRYGREDLDVLGLSFRKDLFIANYQAFPPTPNPPRPPTRLQERLLRKLGQHAHPFFFTIPQNLPCSVTLQPGPEDTGKACGVDFEIRAFCAKSLEEKSHKRNSVRLVIRKVQFAPEKPGPQPSAETTRHFLMSDRSLHLEASLDKELYYHGEPLNVNVHVTNNSTKTVKKIKVSVRQYADICLFSTAQYKCPVAQVEQDDQVSPSSTFCKVYTITPLLSNNREKRGLALDGKLKHEDTNLASSTIVKEGANKEVLGILVSYRVKVKLVVSRGGDVSVELPFVLMHPKPHDHIALPRPQSAATHPPTLLPSAVPETDAPVDTNLIEFETNYATDDDIVFEDFARLRLKGLKDEDYDDQFC |
| 804 | sp|O08901|BUB1\_MOUSE | MDNLENVFRMFEAHMQSYTGNDPLGEWESFIKWVEENFPDNKEYLMTLLEHLMKEFLHKKNYHNDSRFINYCLKFAEYNSDRHQFFEFLYNQGIGTKSSYIYMSWAGHLEAQGELQHASAIFQTGIHNEAEPKELLQQQYRLFQARLTGIHLPAQATTSEPLHSAQILNQVMMTNSSPEKNSACVPKSQGSECSGVASSTCDEKSNMEQRVIMISKSECSVSSSVAPKPEAQQVMYCKEKLIRGDSEFSFEELRAQKYNQRKKHEQWVSEDRNYMKRKEANAFEEQLLKQKMDELHKKLHQVVELSHKDLPASENRPDVSLVCVGQNTCSQQELRGPSLSSISHQTSESSGEKPQEEPSVPLMVNAVNSTLLFPAANLPALPVPVSGQSLTDSRCVNQSVHEFMPQCGPETKEVCETNKVASINDFHTTPNTSLGMVQGTPCKVQPSPTVHTKEALGFIMDMFQAPTLPDISDDKDEWPSLDQNEDAFEAQFQKNAVSSGDWGVKKIMTLSSAFPIFEDGNKENYGLPQPKNKPLGARTFGERSLSKYSSRSNEMPHTDEFMDDSTVCGIRCNKTLAPSPKSIGDFTSAAQLSSTPFHKFPADLVQIPEDKENVVATQYTHMALDSCKENIVDLSKGRKLGPIQEKISASLPCPSQPATGGLFTQEAVFGLEAFKCTGIDHATVEDLSDANAGLQVECVQTLGNVNAPSFTVENPWDDELILKLLSGLSKPVTSYSNTFEWQSKLPAIKTKTEYQLGSLLVYVNHLLGEGAFAQVFEAIHGDVRNAKSEQKCILKVQRPANSWEFYIGMQLMERLKPEVHHMFIKFYSAHLFKNGSILVGELYSYGTLLNVINLYKNTSEKVMPQALVLTFAIRMLYMVEQVHSCEIIHGDIKPDNFILGHRFLEQADEDLATGLALIDLGQSIDMKLFPKGTVFTGKCETSGFQCPEMLSNKPWNYQIDYFGVAATIYCMLFGSYMKVKNEGGVWKPEGLFRRLPHLDMWEEFFHIMLNIPDCHNLPSLDFLRQNMKKLLEQQYSNKIKTLRNRLIVMLSEYKRSRK |
| 805 | sp|P27049|BTG2\_RAT | MSHGKRTDMLPEIAAAVGFLTSLLRTRGCVSEQRLKVFSRALQDALTDHYKHHWFPEKPSKGSGYRCIRINHKMDPIISKVASQIGLSQPQLHQLLPSELTLWVDPYEVSYRIGEDGSICVLYEEAPVATSYGLLTCKNQMMLGRSSPSKNYVMTVSS |
| 806 | sp|Q9Z1S0|BUB1B\_MOUSE | MAEASEAMCLEGAEWELSKENIQPLRHGRVMSTLQGALAKQESAGHTALQQQKRAFESEIRFYSGDDPLDVWDRYINWTEQNYPQGGKESNMSALVERAIEALQGETRYYNDPRFLSLWIKLGHLCNEPLDMYSYLQSQGIGVSLAQFYISWAEEYEARENFKKADIIFQEGIERKAEPLDRLQSQHRQFQSRVSRQAFLALGNEEEEALEPSEPQRSSLAELKSRGKKMARAPISRVGGALKAPGQSRGFLNAVPQPVHGNRRITVFDENADTASRTELSKPVAQPWMAPPVPRAKENELQPGPWSTDRPAGRRPHDNPASVTSIPSVLPSFTPYVEESAQQTVMTPCKIEPSINHVLSTRKPGREEGDPLQRVQSHQQGCEEKKEKMMYCKEKIYAGVGEFSFEEIRAEVFRKKLKERREAELLTSAKKREEMQKQIEEMERRLKAMQAVQQEGAGGQQEEKMPTEDPARLQIASGPQEMSGVPLSCSICPLSSNPREISPAENILQEQPDSKGSSMPFSIFDESLSDKKDKSPATGGPQVLNAQRRPLSVLKTTEVGTTNEDVSPDICDELTELEPLSEDAIITGFRNVTLCPNPEDTCDFARAARLASTPFHEILSSKGIAADPEGLLQEEDLDGKAAEAHHTVHHQALIIKKLSPIIEESREATHSSGFSRSSSSAPSTSSIKGFQLLEKLELTNDGAEDAIQSPWCSQYRLQLLKSLLELSAFAEFSVEDRPMPVLEIGKEIELGPEDYVIKQEHLTCDDYRLFWVAPRSSAELTMIKASSQPIPWDFYINLKLKERLNEDYDQLCSCCQYQDGHVVWYQYINCSTLQNLLQHSEFVTHEIIVLIIYNLLTIVEKLHRAEIVHGDLSPRSLILRNRIHDPYDYVNKDDHAVRIMDFSYSVDLRVQLDAFAYSGFRTAQILEGQKILANCSSPYHVDLLGIADLAHLLLFKEHLHVFWDGLLWKLSQSTSELKDSELWNKFFVRILNASDKSTVSVLGELAAEMGGAFDATFHSHLNRALWKLGKTISPEALLTQQDKQPGGSQSPA |
| 807 | sp|P13001|BIOH\_ECOLI | MNNIWWQTKGQGNVHLVLLHGWGLNAEVWRCIDEELSSHFTLHLVDLPGFGRSRGFGALSLADMAEAVLQQAPDKAIWLGWSLGGLVASQIALTHPERVQALVTVASSPCFSARDEWPGIKPDVLAGFQQQLSDDFQRTVERFLALQTMGTETARQDARALKKTVLALPMPEVDVLNGGLEILKTVDLRQPLQNVSMPFLRLYGYLDGLVPRKVVPMLDKLWPHSESYIFAKAAHAPFISHPAEFCHLLVALKQRV |
| 808 | sp|Q99PU7|BAP1\_MOUSE | MNKGWLELESDPGLFTLLVEDFGVKGVQVEEIYDLQSKCQGPVYGFIFLFKWIEERRSRRKVSTLVDDTSVIDDDIVNNMFFAHQLIPNSCATHALLSVLLNCSNVDLGPTLSRMKDFTKGFSPESKGYAIGNAPELAKAHNSHARPEPRHLPEKQNGLSAVRTMEAFHFVSYVPITGRLFELDGLKVYPIDHGPWGEDEEWTDKARRVIMERIGLATAGEPYHDIRFNLMAVVPDRRIKYETRLHVLKVNRQTVLEALQQLIRVTQPELIQTHKSQESQLPEESKPASSKSPLGLEAGRTPVASECTQTDGAEEVAGSCPQTTTHSPPSKCKLVVKPPGSSLNGVPPNPAPIVQRLPAFLDNHNYAKSPMQEEEDLAAGVGRSRVPVRAPQQYSEDEDDYEDEDEDVQNTNPAIRYKRKGTGKPGSLSNSSDGQLSVLQPNTINVLTEKLQESQKDLSVPLSIKTSSGAGSPAVAVPTHSQPSPTPSNESTDTASEIGSAFNSPLRSPIRSANPTRPSSPVTSHISKVLFGEDDSLLRVDCIRYNRAVRDLGPVISTGLLHLAEDGVLSPLALTEGGKGSSPSTRSSQGSQGSSGLEEKEVVEVTESRDKPGLNRSSEPLSGEKYSPKELLALLKCVEAEIANYEACLKEEVEKRKKFKIDDQRRTHNYDEFICTFISMLAQEGMLANLVEQNISVRRRQGVSIGRLHKQRKPDRRKRSRPYKAKRQ |
| 809 | sp|P56817|BACE1\_HUMAN | MAQALPWLLLWMGAGVLPAHGTQHGIRLPLRSGLGGAPLGLRLPRETDEEPEEPGRRGSFVEMVDNLRGKSGQGYYVEMTVGSPPQTLNILVDTGSSNFAVGAAPHPFLHRYYQRQLSSTYRDLRKGVYVPYTQGKWEGELGTDLVSIPHGPNVTVRANIAAITESDKFFINGSNWEGILGLAYAEIARPDDSLEPFFDSLVKQTHVPNLFSLQLCGAGFPLNQSEVLASVGGSMIIGGIDHSLYTGSLWYTPIRREWYYEVIIVRVEINGQDLKMDCKEYNYDKSIVDSGTTNLRLPKKVFEAAVKSIKAASSTEKFPDGFWLGEQLVCWQAGTTPWNIFPVISLYLMGEVTNQSFRITILPQQYLRPVEDVATSQDDCYKFAISQSSTGTVMGAVIMEGFYVVFDRARKRIGFAVSACHVHDEFRTAAVEGPFVTLDMEDCGYNIPQTDESTLMTIAYVMAAICALFMLPLCLMVCQWRCLRCLRQQHDDFADDISLLK |
| 810 | sp|Q3YL68|B4GT5\_DANRE | MPTHLRFRRRSFLGLLFLFSLSTSALYFIYSAPGIVNEYLFMVQARGIQIRENVRNMGAQVLEQVVRSAYSINGTDYTYEFNFSETDASPTPFLPEGFTYKPEQVCPEKLPSMKGRLKVNMSEIALDEVEKLLKLNDPGLSVGGHWKPHDCRPRWKVAILVPFRNRHEHLPILFRHLIPALQRQRLQFGFYVIEQAGNEPFNRAMLFNVGFKEAMKDLNWDCVIFHDVDHILENDRNYYGCGEMPRHFAVKLNKYSYMLPYEEFFGGVSGLTVKQFKRINGFPNAFWGWGGEDDDLWNRVQFAGYKVSRPHGELGRYMSIPHHHRGEVQFLGRYKLLRRSKERQSLDGLNNLNYSPLVSRRSLYTNVSVTLSRDLAPVADY |
| 811 | sp|P9WQ81|BIOA\_MYCTU | MAAATGGLTPEQIIAVDGAHLWHPYSSIGREAVSPVVAVAAHGAWLTLIRDGQPIEVLDAMSSWWTAIHGHGHPALDQALTTQLRVMNHVMFGGLTHEPAARLAKLLVDITPAGLDTVFFSDSGSVSVEVAAKMALQYWRGRGLPGKRRLMTWRGGYHGDTFLAMSICDPHGGMHSLWTDVLAAQVFAPQVPRDYDPAYSAAFEAQLAQHAGELAAVVVEPVVQGAGGMRFHDPRYLHDLRDICRRYEVLLIFDEIATGFGRTGALFAADHAGVSPDIMCVGKALTGGYLSLAATLCTADVAHTISAGAAGALMHGPTFMANPLACAVSVASVELLLGQDWRTRITELAAGLTAGLDTARALPAVTDVRVCGAIGVIECDRPVDLAVATPAALDRGVWLRPFRNLVYAMPPYICTPAEITQITSAMVEVARLVGSLP |
| 812 | sp|Q9Y2A9|B3GN3\_HUMAN | MKYLRHRRPNATLILAIGAFTLLLFSLLVSPPTCKVQEQPPAIPEALAWPTPPTRPAPAPCHANTSMVTHPDFATQPQHVQNFLLYRHCRHFPLLQDVPPSKCAQPVFLLLVIKSSPSNYVRRELLRRTWGRERKVRGLQLRLLFLVGTASNPHEARKVNRLLELEAQTHGDILQWDFHDSFFNLTLKQVLFLQWQETRCANASFVLNGDDDVFAHTDNMVFYLQDHDPGRHLFVGQLIQNVGPIRAFWSKYYVPEVVTQNERYPPYCGGGGFLLSRFTAAALRRAAHVLDIFPIDDVFLGMCLELEGLKPASHSGIRTSGVRAPSQRLSSFDPCFYRDLLLVHRFLPYEMLLMWDALNQPNLTCGNQTQIY |
| 813 | sp|Q86UU0|BCL9L\_HUMAN | MRILANKTRLPHPRRREAPGSPPLSPRGHCPPAPAKPMHPENKLTNHGKTGNGGAQSQHQNVNQGPTCNVGSKGVGAGNHGAKANQISPSNSSLKNPQAGVPPFSSLKGKVKRDRSVSVDSGEQREAGTPSLDSEAKEVAPRSKRRCVLERKQPYSGDEWCSGPDSEEDDKPIGATHNCNVADPAMAAPQLGPGQTTQLPLSESSVPGAPHGPPPGLRPDAPGGGGGGGGVPGKPPSQFVYVFTTHLANTAAEAVLQGRADSILAYHQQNVPRAKLDQAPKVPPTPEPLPLSTPSAGTPQSQPPPLPPPPPPAPGSAPPALPPEGPPEDSSQDLAPNSVGAASTGGGTGGTHPNTPTATTANNPLPPGGDPSSAPGPALLGEAAAPGNGQRSLVGSEGLSKEQLEHRERSLQTLRDIERLLLRSGETEPFLKGPPGGAGEGGPPAQAPPPPQQPPTAPPSGLKKYEEPLQSMISQTQSLGGPPLEHEVPGHPPGGDMGQQMNMMIQRLGQDSLTPEQVAWRKLQEEYYEEKRRKEEQIGLHGSRPLQDMMGMGGMMVRGPPPPYHSKPGDQWPPGMGAQLRGPMDVQDPMQLRGGPPFPGPRFPGNQIQRVPGFGGMQSMPMEVPMNAMQRPVRPGMGWTEDLPPMGGPSNFAQNTMPYPGGQGEAERFMTPRVREELLRHQLLEKRSMGMQRPLGMAGSGMGQSMEMERMMQAHRQMDPAMFPGQMAGGEGLAGTPMGMEFGGGRGLLSPPMGQSGLREVDPPMGPGNLNMNMNVNMNMNMNLNVQMTPQQQMLMSQKMRGPGDLMGPQGLSPEEMARVRAQNSSGVMGGPQKMLMPSQFPNQGQQGFSGGQGPYQAMSQDMGNTQDMFSPDQSSMPMSNVGTTRLSHMPLPPASNPPGTVHSAPNRGLGRRPSDLTISINQMGSPGMGHLKSPTLSQVHSPLVTSPSANLKSPQTPSQMVPLPSANPPGPLKSPQVLGSSLSVRSPTGSPSRLKSPSMAVPSPGWVASPKTAMPSPGVSQNKQPPLNMNSSTTLSNMEQGTLPPSGPRSSSSAPPANPPSGLMNPSLPFTSSPDPTPSQNPLSLMMTQMSKYAMPSSTPLYHNAIKTIATSDDELLPDRPLLPPPPPPQGSGPGISNSQPSQMHLNSAAAQSPMGMNLPGQQPLSHEPPPAMLPSPTPLGSNIPLHPNAQGTGGPPQNSMMMAPGGPDSLNAPCGPVPSSSQMMPFPPRLQQPHGAMAPTGGGGGGPGLQQHYPSGMALPPEDLPNQPPGPMPPQQHLMGKAMAGRMGDAYPPGVLPGVASVLNDPELSEVIRPTPTGIPEFDLSRIIPSEKPSSTLQYFPKSENQPPKAQPPNLHLMNLQNMMAEQTPSRPPNLPGQQGVQRGLNMSMCHPGQMSLLGRTGVPPQQGMVPHGLHQGVMSPPQGLMTQQNFMLMKQRGVGGEVYSQPPHMLSPQGSLMGPPPQQNLMVSHPLRQRSVSLDSQMGYLPAPGGMANLPF |
| 814 | sp|P32504|CBF3A\_YEAST | MRSSILFLLKLMKIMDVQQQQEAMSSEDRFQELVDSLKPRTAHQYKTYYTKYIQWCQLNQIIPTPEDNSVNSVPYKDLPISAELIHWFLLDTLITDDKPGEKREETEDLDEEEENSFKIATLKKIIGSLNFLSKLCKVHENPNANIDTKYLESVTKLHTHWIDSQKAITTNETNNTNTQVLCPPLLKVSLNLWNPETNHLSEKFFKTCSEKLRFLVDFQLRSYLNLSFEERSKIRFGSLKLGKRDRDAIIYHKVTHSAEKKDTPGHHQLLALLPQDCPFICPQTTLAAYLYLRFYGIPSVSKGDGFPNLNADENGSLLQDIPILRGKSLTTYPREETFSNYYTTVFRYCHLPYKRREYFNKCNLVYPTWDEDTFRTFFNEENHGNWLEQPEAFAFPDKIPFDFKKIMNFKSPYTSYSTNAKKDPFPPPKDLLVQIFPEIDEYKRHDYEGLSQNSRDFLDLMEVLRERFLSNLPWIYKFFPNHDIFQDPIFGNSDFQSYFNDKTIHSKGSPILSFDILPGFNKIYKNKTNFYSLLIERPSQLTFASSHNPDTHPTQKQESEGPLQMSQLDTTQLNELLKQQSFEYVQFQTLSNFQILLSVFNKIFEKLEMKKSSRGYILHQLNLFKITLDERIKKSKIDDADKFIRDNQPIKKEENIVNEDGPNTSRRTKRPKQIRLLSIADSSDESSTEDSNVFKKDGESIEDGAYGENEDENDSEMQEQLKSMINELINSKISTFLRDQMDQFELKINALLDKILEEKVTRIIEQKLGSHTGKFSTLKRPQLYMTEEHNVGFDMEVPKKLRTSGKYAETVKDNDDHQAMSTTASPSPEQDQEAKSYTDEQEFMLDKSIDSIEGIILEWFTPNAKYANQCVHSMNKSGNKSWRANCEALYKERKSIVEFYIYLVNHESLDRYKAVDICEKLRDQNEGSFSRLAKFLRKWRHDHQNSFDGLLVYLSN |
| 815 | sp|P33322|CBF5\_YEAST | MSKEDFVIKPEAAGASTDTSEWPLLLKNFDKLLVRSGHYTPIPAGSSPLKRDLKSYISSGVINLDKPSNPSSHEVVAWIKRILRCEKTGHSGTLDPKVTGCLIVCIDRATRLVKSQQGAGKEYVCIVRLHDALKDEKDLGRSLENLTGALFQRPPLISAVKRQLRVRTIYESNLIEFDNKRNLGVFWASCEAGTYMRTLCVHLGMLLGVGGHMQELRRVRSGALSENDNMVTLHDVMDAQWVYDNTRDESYLRSIIQPLETLLVGYKRIVVKDSAVNAVCYGAKLMIPGLLRYEEGIELYDEIVLITTKGEAIAVAIAQMSTVDLASCDHGVVASVKRCIMERDLYPRRWGLGPVAQKKKQMKADGKLDKYGRVNENTPEQWKKEYVPLDNAEQSTSSSQETKETEEEPKKAKEDSLIKEVETEKEEVKEDDSKKEKKEKKDKKEKKEKKEKKDKKEKKEKKEKKRKSEDGDSEEKKSKKSKK |
| 816 | sp|Q2IBF3|CAV2\_GORGO | MGLETEKADVQLFMDDDSYSHHSGLEYADPEKFADSGQDRDPHRLNSHLKLGFEDVIAEPVTTHSFDKVWICSHALFEISKYVMYKFLTVFLAIPLAFIAGILFATLSCLHIWILMPFVKTCLMVLPSVQTIWKSVTDVIIAPLCTSVGRCFSSVSLQLSQD |
| 817 | sp|Q9Y6J0|CABIN\_HUMAN | MIRIAALNASSTIEDDHEGSFKSHKTQTKEAQEAEAFALYHKALDLQKHDRFEESAKAYHELLEASLLREAVSSGDEKEGLKHPGLILKYSTYKNLAQLAAQREDLETAMEFYLEAVMLDSTDVNLWYKIGHVALRLIRIPLARHAFEEGLRCNPDHWPCLDNLITVLYTLSDYTTCLYFICKALEKDCRYSKGLVLKEKIFEEQPCLRKDSLRMFLKCDMSIHDVSVSAAETQAIVDEALGLRKKRQALIVREKEPDLKLVQPIPFFTWKCLGESLLAMYNHLTTCEPPRPSLGKRIDLSDYQDPSQPLESSMVVTPVNVIQPSTVSTNPAVAVAEPVVSYTSVATTSFPLHSPGLLETGAPVGDISGGDKSKKGVKRKKISEESGETAKRRSARVRNTKCKKEEKVDFQELLMKFLPSRLRKLDPEEEDDSFNNYEVQSEAKLESFPSIGPQRLSFDSATFMESEKQDVHEFLLENLTNGGILELMMRYLKAMGHKFLVRWPPGLAEVVLSVYHSWRRHSTSLPNPLLRDCSNKHIKDMMLMSLSCMELQLDQWLLTKGRSSAVSPRNCPAGMVNGRFGPDFPGTHCLGDLLQLSFASSQRDLFEDGWLEFVVRVYWLKARFLALQGDMEQALENYDICTEMLQSSTAIQVEAGAERRDIVIRLPNLHNDSVVSLEEIDKNLKSLERCQSLEEIQRLYEAGDYKAVVHLLRPTLCTSGFDRAKHLEFMTSIPERPAQLLLLQDSLLRLKDYRQCFECSDVALNEAVQQMVNSGEAAAKEEWVATVTQLLMGIEQALSADSSGSILKVSSSTTGLVRLTNNLIQVIDCSMAVQEEAKEPHVSSVLPWIILHRIIWQEEDTFHSLCHQQQLQNPAEEGMSETPMLPSSLMLLNTAHEYLGRRSWCCNSDGALLRFYVRVLQKELAASTSEDTHPYKEELETALEQCFYCLYSFPSKKSKARYLEEHSAQQVDLIWEDALFMFEYFKPKTLPEFDSYKTSTVSADLANLLKRIATIVPRTERPALSLDKVSAYIEGTSTEVPCLPEGADPSPPVVNELYYLLADYHFKNKEQSKAIKFYMHDICICPNRFDSWAGMALARASRIQDKLNSNELKSDGPIWKHATPVLNCFRRALEIDSSNLSLWIEYGTMSYALHSFASRQLKQWRGELPPELVQQMEGRRDSMLETAKHCFTSAARCEGDGDEEEWLIHYMLGKVAEKQQQPPTVYLLHYRQAGHYLHEEAARYPKKIHYHNPPELAMEALEVYFRLHASILKLLGKPDSGVGAEVLVNFMKEAAEGPFARGEEKNTPKASEKEKACLVDEDSHSSAGTLPGPGASLPSSSGPGLTSPPYTATPIDHDYVKCKKPHQQATPDDRSQDSTAVALSDSSSTQDFFNEPTSLLEGSRKSYTEKRLPILSSQAGATGKDLQGATEERGKNEESLESTEGFRAAEQGVQKPAAETPASACIPGKPSASTPTLWDGKKRGDLPGEPVAFPQGLPAGAEEQRQFLTEQCIASFRLCLSRFPQHYKSLYRLAFLYTYSKTHRNLQWARDVLLGSSIPWQQLQHMPAQGLFCERNKTNFFNGIWRIPVDEIDRPGSFAWHMNRSIVLLLKVLAQLRDHSTLLKVSSMLQRTPDQGKKYLRDADRQVLAQRAFILTVKVLEDTLSELAEGSERPGPKVCGLPGARMTTDVSHKASPEDGQEGLPQPKKPPLADGSGPGPEPGGKVGLLNHRPVAMDAGDSADQSGERKDKESPRAGPTEPMDTSEATVCHSDLERTPPLLPGRPARDRGPESRPTELSLEELSISARQQPTPLTPAQPAPAPAPATTTGTRAGGHPEEPLSRLSRKRKLLEDTESGKTLLLDAYRVWQQGQKGVAYDLGRVERIMSETYMLIKQVDEEAALEQAVKFCQVHLGAAAQRQASGDTPTTPKHPKDSRENFFPVTVVPTAPDPVPADSVQRPSDAHTKPRPALAAATTIITCPPSASASTLDQSKDPGPPRPHRPEATPSMASLGPEGEELARVAEGTSFPPQEPRHSPQVKMAPTSSPAEPHCWPAEAALGTGAEPTCSQEGKLRPEPRRDGEAQEAASETQPLSSPPTAASSKAPSSGSAQPPEGHPGKPEPSRAKSRPLPNMPKLVIPSAATKFPPEITVTPPTPTLLSPKGSISEETKQKLKSAILSAQSAANVRKESLCQPALEVLETSSQESSLESETDEDDDYMDI |
| 818 | sp|Q9ULU8|CAPS1\_HUMAN | MLDPSSSEEESDEIVEEESGKEVLGSAPSGARLSPSRTSEGSAGSAGLGGGGAGAGAGVGAGGGGGSGASSGGGAGGLQPSSRAGGGRPSSPSPSVVSEKEKEELERLQKEEEERKKRLQLYVFVMRCIAYPFNAKQPTDMARRQQKISKQQLQTVKDRFQAFLNGETQIMADEAFMNAVQSYYEVFLKSDRVARMVQSGGCSANDSREVFKKHIEKRVRSLPEIDGLSKETVLSSWMAKFDAIYRGEEDPRKQQARMTASAASELILSKEQLYEMFQNILGIKKFEHQLLYNACQLDNPDEQAAQIRRELDGRLQMADQIARERKFPKFVSKEMENMYIEELKSSVNLLMANLESMPVSKGGEFKLQKLKRSHNASIIDMGEESENQLSKSDVVLSFSLEVVIMEVQGLKSLAPNRIVYCTMEVEGGEKLQTDQAEASKPTWGTQGDFSTTHALPAVKVKLFTESTGVLALEDKELGRVILHPTPNSPKQSEWHKMTVSKNCPDQDLKIKLAVRMDKPQNMKHSGYLWAIGKNVWKRWKKRFFVLVQVSQYTFAMCSYREKKAEPQELLQLDGYTVDYTDPQPGLEGGRAFFNAVKEGDTVIFASDDEQDRILWVQAMYRATGQSHKPVPPTQVQKLNAKGGNVPQLDAPISQFYADRAQKHGMDEFISSNPCNFDHASLFEMVQRLTLDHRLNDSYSCLGWFSPGQVFVLDEYCARNGVRGCHRHLCYLRDLLERAENGAMIDPTLLHYSFAFCASHVHGNRPDGIGTVTVEEKERFEEIKERLRVLLENQITHFRYCFPFGRPEGALKATLSLLERVLMKDIVTPVPQEEVKTVIRKCLEQAALVNYSRLSEYAKIEENQKDAENVGRLITPAKKLEDTIRLAELVIEVLQQNEEHHAEPHVDKGEAFAWWSDLMVEHAETFLSLFAVDMDAALEVQPPDTWDSFPLFQLLNDFLRTDYNLCNGKFHKHLQDLFAPLVVRYVDLMESSIAQSIHRGFERESWEPVKSLTSNLPNVNLPNVNLPKVPNLPVNIPLGIPQMPTFSAPSWMAAIYDADNGSGTSEDLFWKLDALQTFIRDLHWPEEEFGKHLEQRLKLMASDMIESCVKRTRIAFEVKLQKTSRSTDFRVPQSICTMFNVMVDAKAQSTKLCSMEMGQEHQYHSKIDELIEETVKEMITLLVAKFVTILEGVLAKLSRYDEGTLFSSFLSFTVKAASKYVDVPKPGMDVADAYVTFVRHSQDVLRDKVNEEMYIERLFDQWYNSSMNVICTWLTDRMDLQLHIYQLKTLIRMVKKTYRDFRLQGVLDSTLNSKTYETIRNRLTVEEATASVSEGGGLQGISMKDSDEEDEEDD |
| 819 | sp|Q10423|CCE1\_SCHPO | MATVKLSFLQHICKLTGLSRSGRKDELLRRIVDSPIYPTSRVLGIDLGIKNFSYCFASQNEDSKVIIHNWSVENLTEKNGLDIQWTEDFQPSSMADLSIQLFNTLHEKFNPHVILMERQRYRSGIATIPEWTLRVNMLESMLYALHYAEKRNSIEQKIQYPFLLSLSPKSTYSYWASVLNTKASFSKKKSRVQMVKELIDGQKILFENEEALYKWNNGSRVEFKKDDMADSALIASGWMRWQAQLKHYRNFCKQFLKQ |
| 820 | sp|A2RUB6|CCD66\_HUMAN | MNLGDGLKLETELLDGKTKLILSPYEHKSKISVKMGNKAKIAKCPLRTKTGHILKSTQDTCIGSEKLLQKKPVGSETSQAKGEKNGMTFSSTKDLCKQCIDKDCLHIQKEISPATPNMQKTRNTVNTSLVGKQKPHKKHITAENMKSSLVCLTQDQLQQILMTVNQGNRSLSLTENGKEAKSQYSLYLNSISNQPKDENIMGLFKKTEMVSSVPAENKSVLNEHQETSKQCEQKIAIENEWKPADIFSTLGERECDRSSLEAKKAQWRKELDEQVALKKKEKEVSEKWNDPWKKSESDKIIWEKHQILDQSRETVLLEHPFSAVKQELQRKWIEELNKQIEDDRQRKIEEKIIYSKGEEHDRWAMHFDSLKSYPGSQSQLFSQSTHKQPEYFCVSPDTQELADVSSVCTPTTGSQVEPSEEEHIAKPIKDVVMANSKKTNFLRSMTALLDPAQIEERDRRRQKQLEHQKAITAQVEEKRRKKQLEEEQRKKEEQEEELRLAQEREEMQKQYEEDILKQKQKEEIMTLKTNELFQTMQRAQELAQRLKQEQRIRELAQKGHDTSRLIKNLGVDTIQMEYNASNISNSRHDSDEISGKMNTYMNSTTSKKDTGVQTDDLNIGIFTNAESHCGSLMERDITNCSSPEISAELIGQFSTKKNKQELTQDKGASLEKENNRCNDQCNQFTRIEKQTKHMKKYPKRPDWNINKPPKRYIPASEKYPKQLQKQREEKKVRRQMELLHLVEKNNPGHLSQNRGISPEIFHSSHQETESKLRWHLVKKEEEPLNIHSFSKERSPSSPVPVVKNRTQQTQNTLHLPLKNSSYERENLISGSNQTELSSGISESSHFIPYVRTNEIYYLDPDAPLSGPSTQDPQYQNSQDCGQKRQLFDSDCVRDPLLNPNMVKNRDRQQAILKGLSELRQGLLQKQKELESSLLPLAENQEESFGSSF |
| 821 | sp|Q9LJL9|CAMK2\_ARATH | MGGCTSKPSSSVKPNPYAPKDAVLQNDDSTPAHPGKSPVRSSPAVKASPFFPFYTPSPARHRRNKSRDGGGGESKSVTSTPLRQLARAFHPPSPARHIRDVLRRRKEKKEAALPAARQQKEEEEREEVGLDKRFGFSKELQSRIELGEEIGRGHFGYTCSAKFKKGELKDQEVAVKVIPKSKMTSAISIEDVRREVKILRALSGHQNLVQFYDAFEDNANVYIVMELCGGGELLDRILARGGKYSEDDAKAVLIQILNVVAFCHLQGVVHRDLKPENFLYTSKEENSMLKVIDFGLSDFVRPDERLNDIVGSAYYVAPEVLHRSYTTEADVWSIGVIAYILLCGSRPFWARTESGIFRAVLKADPSFDEPPWPSLSFEAKDFVKRLLYKDPRKRMTASQALMHPWIAGYKKIDIPFDILIFKQIKAYLRSSSLRKAALMALSKTLTTDELLYLKAQFAHLAPNKNGLITLDSIRLALATNATEAMKESRIPDFLALLNGLQYKGMDFEEFCAASISVHQHESLDCWEQSIRHAYELFEMNGNRVIVIEELASELGVGSSIPVHTILNDWIRHTDGKLSFLGFVKLLHGVSTRQSLAKTR |
| 822 | sp|P32582|CBS\_YEAST | MTKSEQQADSRHNVIDLVGNTPLIALKKLPKALGIKPQIYAKLELYNPGGSIKDRIAKSMVEEAEASGRIHPSRSTLIEPTSGNTGIGLALIGAIKGYRTIITLPEKMSNEKVSVLKALGAEIIRTPTAAAWDSPESHIGVAKKLEKEIPGAVILDQYNNMMNPEAHYFGTGREIQRQLEDLNLFDNLRAVVAGAGTGGTISGISKYLKEQNDKIQIVGADPFGSILAQPENLNKTDITDYKVEGIGYDFVPQVLDRKLIDVWYKTDDKPSFKYARQLISNEGVLVGGSSGSAFTAVVKYCEDHPELTEDDVIVAIFPDSIRSYLTKFVDDEWLKKNNLWDDDVLARFDSSKLEASTTKYADVFGNATVKDLHLKPVVSVKETAKVTDVIKILKDNGFDQLPVLTEDGKLSGLVTLSELLRKLSINNSNNDNTIKGKYLDFKKLNNFNDVSSYNENKSGKKKFIKFDENSKLSDLNRFFEKNSSAVITDGLKPIHIVTKMDLLSYLA |
| 823 | sp|Q9BXJ1|C1QT1\_HUMAN | MGSRGQGLLLAYCLLLAFASGLVLSRVPHVQGEQQEWEGTEELPSPPDHAERAEEQHEKYRPSQDQGLPASRCLRCCDPGTSMYPATAVPQINITILKGEKGDRGDRGLQGKYGKTGSAGARGHTGPKGQKGSMGAPGERCKSHYAAFSVGRKKPMHSNHYYQTVIFDTEFVNLYDHFNMFTGKFYCYVPGLYFFSLNVHTWNQKETYLHIMKNEEEVVILFAQVGDRSIMQSQSLMLELREQDQVWVRLYKGERENAIFSEELDTYITFSGYLVKHATEP |
| 824 | sp|O54800|CADH8\_RAT | MPERLAETLLDLWTPLIILWITLPSFVYMAPMNQAHVLTTGSPLELSRQSEEMRILNRSKRGWVWNQMFVLEEFSGPEPILVGRLHTDLDPGSKKIKYILSGDGAGTIFQINDITGDIHAIKRLDREEKAEYTLTAQAVDWETNKPLEPPSEFIIKVQDINDNAPEFLNGPYHATVPEMSILGTSVTNVTATDADDPVYGNSAKLVYSILEGQPYFSIEPETAIIKTALPNMDREAKEEYLVVIQAKDMGGHSGGLSGTTTLTVTLTDVNDNPPKFAQSLYHFSVPEDVVLGTAIGRVKANDQDIGENAQSSYDIIDGDGTALFEITSDAQAQDGVIRLRKPLDFETKKSYTLKVEAANIHIDPRFSGRGPFKDTATVKIVVEDADEPPVFSSPTYLLEVHENAALNSVIGQVTARDPDITSSPIRFSIDRHTDLERQFNINADDGKITLATPLDRELSVWHNISIIATEIRNHSQISRVPVAIKVLDVNDNAPEFASEYEAFLCENGKPGQVIQTVSAMDKDDPKNGHFFLYSLLPEMVNNPNFTIKKNEDNSLSILAKHNGFNRQKQEVYLLPIVISDSGNPPLSSTSTLTIRVCGCSNDGVVQSCNVEPYVLPIGLSMGALIAILACIILLLVIVVLFVTLRRHKNEPLIIKDDEDVRENIIRYDDEGGGEEDTEAFDIATLQNPDGINGFLPRKDIKPDLQFMPRQGLAPVPNGVDVDEFINVRLHEADNDPTAPPYDSIQIYGYEGRGSVAGSLSSLESTTSDSDQNFDYLSDWGPRFKRLGELYSVGESDKET |
| 825 | sp|P97864|CASP7\_MOUSE | MTDDQDCAAELEKVDSSSEDGVDAKPDRSSIISSILLKKKRNASAGPVRTGRDRVPTYLYRMDFQKMGKCIIINNKNFDKATGMDVRNGTDKDAGALFKCFQNLGFEVTVHNDCSCAKMQDLLRKASEEDHSNSACFACVLLSHGEEDLIYGKDGVTPIKDLTAHFRGDRCKTLLEKPKLFFIQACRGTELDDGIQADSGPINDIDANPRNKIPVEADFLFAYSTVPGYYSWRNPGKGSWFVQALCSILNEHGKDLEIMQILTRVNDRVARHFESQSDDPRFNEKKQIPCMVSMLTKELYFSR |
| 826 | sp|P97272|CCL5\_CAVPO | MKVSAAALCVILTTAALCVPASASPYASDTTPCCFAYISRALPRTHIKEYFYTSSKCSNLAVVFVTRKNRQVCANPEKKWVREYINSLEMS |
| 827 | sp|P09871|C1S\_HUMAN | MWCIVLFSLLAWVYAEPTMYGEILSPNYPQAYPSEVEKSWDIEVPEGYGIHLYFTHLDIELSENCAYDSVQIISGDTEEGRLCGQRSSNNPHSPIVEEFQVPYNKLQVIFKSDFSNEERFTGFAAYYVATDINECTDFVDVPCSHFCNNFIGGYFCSCPPEYFLHDDMKNCGVNCSGDVFTALIGEIASPNYPKPYPENSRCEYQIRLEKGFQVVVTLRREDFDVEAADSAGNCLDSLVFVAGDRQFGPYCGHGFPGPLNIETKSNALDIIFQTDLTGQKKGWKLRYHGDPMPCPKEDTPNSVWEPAKAKYVFRDVVQITCLDGFEVVEGRVGATSFYSTCQSNGKWSNSKLKCQPVDCGIPESIENGKVEDPESTLFGSVIRYTCEEPYYYMENGGGGEYHCAGNGSWVNEVLGPELPKCVPVCGVPREPFEEKQRIIGGSDADIKNFPWQVFFDNPWAGGALINEYWVLTAAHVVEGNREPTMYVGSTSVQTSRLAKSKMLTPEHVFIHPGWKLLEVPEGRTNFDNDIALVRLKDPVKMGPTVSPICLPGTSSDYNLMDGDLGLISGWGRTEKRDRAVRLKAARLPVAPLRKCKEVKVEKPTADAEAYVFTPNMICAGGEKGMDSCKGDSGGAFAVQDPNDKTKFYAAGLVSWGPQCGTYGLYTRVKNYVDWIMKTMQENSTPRED |
| 828 | sp|P34545|CBP1\_CAEEL | MDEPPSKKSRADSDYDSGLDALSALESLEAFPTSSKDTDVDNNPSTSAGGSGGPSGSTPHPQGTPQPAPSNNGGFNLQPGQSQPQQPPQNMGGGVNGSVLQELLMNPSQTSNNSPRPQAYPPGQQNAFNRSPMMPNGTPNMMSPPSMGRVPGPSPGGPQPPGPGQPQMRPGQPGMFQGDQQQQMMMGAQGQQFPGMMHRYPYAQGGPPPGAQGMPQGYPGVSRGGPTPGQPMGRGAMMNGAMPRSGPMPTQGRPGIPPNQQAMMQPMMTDRQFMQHGQYGQQRPEFMQQYGRPGGYPMMHQGMMMDSNGQPIRGPNQMMMMSNGHPGMSHGPPNGQPGPQAAAAQHAAQQQAAAQAQAQAAAQQQQQQQREQEAAAAAQRNGAGRATTPGSSMLATHQDPEKRKLIQQQLVLLLHAHKCSQREKENRDFAAKNQPPPHAACTLPHCSTMKEVLTHMTSCNVGRLCHSDTTQTTKKCSVAHCASSRQIIAHWKNCSREDCPVCKPLKRIQDTPLQFSLPDLANLIGVNGNSNGSAEGDGLHQFGSPAMRTGNITNSLFEGFNGNPFQNGPNRGGPRPPGGNGEIPNLPPPDMPDCTKEWHHQVTKDLRNHLVGKLVKAIFPEPNQEAMNDNRLKDLIAYARKVEKEMFESANDREEYYHLLAEKIYKIQKELQEKKNSRLNQGAAAHDQYAIPPSNELAQMLGVEGGRSDVHSEGSSMAVAPSQQNQPWGGAPNSNMHQQIPPNGQVPQVNNSSTFPSSGNSTPNIGASSTVSAMLQPKTEPMDDQNTDSLSSRPPTAIGFGGSSSSTPAPIMNGIVKKEEDPEESSNQAPPSVKDTKDGVAESKPKEQQAKREPTPPPTEDTVFSQEDLIKFLLPVWEKLDKSEDAAPFRVPVDAKLLNIPDYHEIIKRPMDLETVHKKLYAGQYQNAGQFCDDIWLMLDNAWLYNRKNSKVYKYGLKLSEMFVSEMDPVMKSMGYCCAKKLAFTPLSLFCYGAAMCTIAREQQYWVFEQSSTQYNVTVTERYTYCQKCFDALPPEGISLSENPNDRNNMAPKTSFTEQKNSVIDYEPFERCKYCMRKWHRICALHDKKVYPEGFICECCRTAKKYQKPDNKYLASKLPHNKLSTFLEDRVNGFIKKQLQAEAHKYPVIIRTLCVQDKEAEVKAQMKQKYVESNQFPEKFPYRTKAVFAFEIIDGVEVCFFGLHVQEYGSACPAPNARRVYIAYLDSVHFFQPRELRTDVYHELLLGYLDYAKMLGYTMAHIWACPPSEGDDYIFHCHPPEQKIPKPKRLQDWYKKMLEKGVQEGSVVEFKDIYKQARDDNLTTPTQLPYFEGDFWPNVIEDCIREASNEEAQRKVKEDDDDGEDADGGLGGGDSGKKKSSKNKKNNLKKNAKMNKKKAGSITGNEVADKLYSQFEKHKEVFFTIRLVSLQNEPAVLAKPISDPDGLMQSDMMDGRDTFLTKAREEHWEFSSLRRAKYSTLCLAYSLHETDSKGMEYTCNKCSSPAVWHCQSCDDFDLCDGCKPTTQHPHEMEKIKSLIGGGEAGDSAAGGTRYESIQRCIASLVHACQCRDANCRRMSCHKMKRVVQHTKMCKKRINGTCPVCKQLIALCCYHAKHCTRDACTVPFCMNIRQKLAEQKRSQQRRADMMMRRRMEGLQSHVGGAAPTPSTVSNGTPSNAPTPPVSAGPGPAVKGGGVGQVQMQQHQGSHVGGSGPAGMGQPMNSFGGMPGMGLGPNAQNGPGLPGMNPQMNANQSRYMPNGPGLGQSGAPGQQQQPMYSSGMPMQRPGGLGGMNPQQQPQQQQGHPGLQNPGGRPGGVHGMGQNQPVRNNQDMVMNMQMQNQHQQPPPFDSTLQPQIMKINSRLKAAKTEEERETVFSDLKKTPHLFHAWLRMRENQNLVPNRMQGYSQMSMGSSNLQNLQQQQLQQQQAGAMRGGGGFAPGQNNSQPRAPSGQFASMNPSMQQQYPQQQQGWPQQRQQNPGGMQQNANPYNQFQNRQNMMMMPQQQQPHPSNAGGQ |
| 829 | sp|P42574|CASP3\_HUMAN | MENTENSVDSKSIKNLEPKIIHGSESMDSGISLDNSYKMDYPEMGLCIIINNKNFHKSTGMTSRSGTDVDAANLRETFRNLKYEVRNKNDLTREEIVELMRDVSKEDHSKRSSFVCVLLSHGEEGIIFGTNGPVDLKKITNFFRGDRCRSLTGKPKLFIIQACRGTELDCGIETDSGVDDDMACHKIPVEADFLYAYSTAPGYYSWRNSKDGSWFIQSLCAMLKQYADKLEFMHILTRVNRKVATEFESFSFDATFHAKKQIPCIVSMLTKELYFYH |
| 830 | sp|Q4AC94|C2CD3\_HUMAN | MKQRKGQGSGGSRGRKKRGLSDISPSTSLPPLVEGQLRCFLKLTVNRVIWKIAKPPTCVLVRVRWWGETSDGTLFCPRDALQTEPKAVRTTTRYAIRCGPKQFTSYLTDMAVLVLEVITKLDGLPIGRVQINGLAQLSPTHQINGFFTIVSSTSKKLGELQVSLALEPLSETYDSYHPLPTTDMTENVLLSKQGFRENTEPSSTQFQVPSRPRDIHTIKIDGKELAANSSRSTTPRGKDHVCFAENPDTIKDSSFGLQHSLNSGQSLESVTLKGRAPRKQMSLLNSSEFQPQIRTVAKSHSDSCILSSNNLPTKDLLSALLEQGNKLRNAMVISAMKSSPETSMLLDQVHPPINEDSLRASTQIRAFSRNRFKDHIEDHLLPSTENTFWRHDTKADTRAIQLLLGSAELSQGNFWDGLGSPPDSPSPGSDVYCISELNDPQYDQSLLENLFYTAPKSDTSISDFLSEEDDIVPSKKISQSTALARSSKVLESSDHKLKKRSAGKRNRNLVEQQMLSETPEDAQTMTLSVDRLALLGRTHSVRIIIETMGVPPDSPQMTPGKKSYAGPPPKVTTAKKRTFFVEYHFPVGFSESGLGKTALITEVVRLASSKITDGKVKFQQRFVFPVQFGGPMIEHWWNSNLTFQIYVKKTPQKKPEVIGSVSLSLRAVIQSELLSFSDQLPVQQENGQSPFGPLKVTMELITDNKDFTGINTKLSGNTHYTPLCAPTSPNKALPELNQDMTCTKNPQNLNQIHEETAKKAQNLVLPNRKSPSPVAPHPSTFVATPASHNLVNQTNGTTKESALLLHVLLMVPDGKDFISGESEKQSPCNVYLNCKLFSTEEVTRSVIAWGTTQPVFNFSQVIPVSLSSKYLERLKNNVMVIETWNKVRSPGQDKLLGLVKLPLHQFYMSFKDAKISRLLLDAQYPVVAVDSYMPVIDVFSGHQNGSLRVFLAMGSSNQIMALQRLKNEEGTLPPFSPRPAHFLDQPTAASVAMAEDRGNGLMEHCFEIHIEMVKGLAPLQATVWGEADCYVQYYFPVQHSQSSVLKGPEFLENGITLKPFRTATTLCVPDPIFNSEHHHSLLLPAEVPVQRLLLSAFSAQGLVPGGGVQFEIWCRYYYPNVRDQKVAKGTLPLSRICAMVTTQHREDVGIQTFNLPLTPRIENRKELRNQSSGLLDVGLRYRRSPRTAEGVLAARTVSISVQIIRACGLQAAAKALAEREPALQFSATVGVNASVTTHLSFLPQGEQRRTHPVACSFCPEFSHHVEFTCNLVTQHCSGEACFLAELLEFAEVIFAVYHENTKSASDIISIESCKEYLLGVVKVPTKELLIKRSGITGWYPIILPEDGGLPHGLELMQKIVGGLELSISFTHRGDRERVLEAAEHLGWSFENSLKDFVRMDEGEPATVTISTPRLWLPIHCVLLAGHNHIHKNTYCYLRYKFYDHEAFWTPLKKPKESVNKKQIMVTFKASKRAEVTRGPSLLWYFREERLEIQVWRAYGNDSVERPHQTDSWIGSAYVDLARLGERSARTLTVSGVYPLFGRNASNLSGAALRVHVVLSSLSSHLEPTHELDSMDCSSHSESEQLPRRNDEVQLSPPEVISCHQKSPASTQVPCSSTTAEVRLTQEGPADLDGTFAVSILVERAMHLSLKGSPLTERKVSIPSCCVSFATADESSPVYTQVVENTDSPIWNFQQQSRLSKELLLDPQQTLVFKVWHKGDEERVIGFASVDLSPLLSGFQFVCGWYNITDFSGECQGQIKVAVSPLESLIHFKEERQARRGVETSKSLIPIYSPFSFPASDTYAAFSSHMARQTLDQLAHASSKELDFSSPGRSDTTRSQASRHEEHVQNIRRFHESLHLQGEAPLPCDDKLTTSPLSSQTSILTSLRKNLSELDQIQRYFRQKLTKPFLPLSPQTQTAISQHQESCRDHLGPGASSLDPGSQCILEKSSNLVLQVSSLITDLQTITRDSQAALSSHRARSRSNKATTLPDAQDTEALQERCTMPDEPLVRAPDKGTDSPSPPPLEETSNGGRMLHESLRHAVPITRMQSSEDTEAGPAYSDEDYEEDIIEPRTLNEITTVTDKTSPWSSVISDTSEVISPQPDEVQREGPSCPSPGPFCREELMVKSSFLSSPERAVNPHLPRQGSPSQSLVACECEASKARVGGESASANPQPIPCPTLSGAQQSSTFVGWSSPQTDQNKEPKSEAPAENEAATSELGDSADSFKKLPLNLASQSRRENHKGPPIDSSDIRQRQVTTGSETSTKQSLLLPGPIVVPNFFLPPQQLEASLRMLSLSATLPPAATTDQDKSEATRGALSQRPCRPRPNSLPLNLPEEETLRIARIFSSQYSQKD |
| 831 | sp|P00918|CAH2\_HUMAN | MSHHWGYGKHNGPEHWHKDFPIAKGERQSPVDIDTHTAKYDPSLKPLSVSYDQATSLRILNNGHAFNVEFDDSQDKAVLKGGPLDGTYRLIQFHFHWGSLDGQGSEHTVDKKKYAAELHLVHWNTKYGDFGKAVQQPDGLAVLGIFLKVGSAKPGLQKVVDVLDSIKTKGKSADFTNFDPRGLLPESLDYWTYPGSLTTPPLLECVTWIVLKEPISVSSEQVLKFRKLNFNGEGEPEELMVDNWRPAQPLKNRQIKASFK |
| 832 | sp|Q9NQ75|CASS4\_HUMAN | MKGTGIMDCAPKALLARALYDNCPDCSDELAFSRGDILTILEQHVPESEGWWKCLLHGRQGLAPANRLQILTEVAADRPCPPFLRGLEEAPASSEETYQVPTLPRPPTPGPVYEQMRSWAEGPQPPTAQVYEFPDPPTSARIICEKTLSFPKQAILTLPRPVRASLPTLPSQVYDVPTQHRGPVVLKEPEKQQLYDIPASPKKAGLHPPDSQASGQGVPLISVTTLRRGGYSTLPNPQKSEWIYDTPVSPGKASVRNTPLTSFAEESRPHALPSSSSTFYNPPSGRSRSLTPQLNNNVPMQKKLSLPEIPSYGFLVPRGTFPLDEDVSYKVPSSFLIPRVEQQNTKPNIYDIPKATSSVSQAGKELEKAKEVSENSAGHNSSWFSRRTTSPSPEPDRLSGSSSDSRASIVSSCSTTSTDDSSSSSSEESAKELSLDLDVAKETVMALQHKVVSSVAGLMLFVSRKWRFRDYLEANIDAIHRSTDHIEESVREFLDFARGVHGTACNLTDSNLQNRIRDQMQTISNSYRILLETKESLDNRNWPLEVLVTDSVQNSPDDLERFVMVARMLPEDIKRFASIVIANGRLLFKRNCEKEETVQLTPNAEFKCEKYIQPPQRETESHQKSTPSTKQREDEHSSELLKKNRANICGQNPGPLIPQPSSQQTPERKPRLSEHCRLYFGALFKAISAFHGSLSSSQPAEIITQSKLVIMVGQKLVDTLCMETQERDVRNEILRGSSHLCSLLKDVALATKNAVLTYPSPAALGHLQAEAEKLEQHTRQFRGTLG |
| 833 | sp|P28491|CALR\_PIG | MLLPVPLLLGLVGLAAAEPTIYFKEQFLDGDGWTDRWIESKHKPDFGRFVLSSGKFYGDQEKDKGLQTSQDARFYALSARFEPFSNKGQTLVVQFTVKHEQNIDCGGGYVKLFPDGLDQTDMHGDSEYNIMFGPDICGPGTKKVHVIFNYKGKNVLINKDIRCKDDEFTHLYTLIVRPDNTYEVKIDNSQVESGSLEDDWDFLPPKKIKDPDAVKPEDWDERAKIDDPTDSKPEDWDKPEHIPDPDAKKPEDWDEEMDGEWEPPVIQNPEYKGEWKPRQIDNPDYKGTWIHPEIDNPEYSPDSNIYAYENFAVLGLDLWQVKSGTIFDNFLITNDEAYAEEFGNETWGVTKAAEKQMKDKQDEEQRLKEEEEEKKRKEEEEVDKEDEEDKDEDEEEEDEKEEEEEEDAAAGQAKDEL |
| 834 | sp|O09047|C3AR\_MOUSE | MESFDADTNSTDLHSRPLFQPQDIASMVILGLTCLLGLLGNGLVLWVAGVKMKTTVNTVWFLHLTLADFLCCLSLPFSLAHLILQGHWPYGLFLCKLIPSIIILNMFASVFLLTAISLDRCLIVHKPIWCQNHRNVRTAFAICGCVWVVAFVMCVPVFVYRDLFIMDNRSICRYNFDSSRSYDYWDYVYKLSLPESNSTDNSTAQLTGHMNDRSAPSSVQARDYFWTVTTALQSQPFLTSPEDSFSLDSANQQPHYGGKPPNVLTAAVPSGFPVEDRKSNTLNADAFLSAHTELFPTASSGHLYPYDFQGDYVDQFTYDNHVPTPLMAITITRLVVGFLVPFFIMVICYSLIVFRMRKTNFTKSRNKTFRVAVAVVTVFFICWTPYHLVGVLLLITDPESSLGEAVMSWDHMSIALASANSCFNPFLYALLGKDFRKKARQSIKGILEAAFSEELTHSTNCTQDKASSKRNNMSTDV |
| 835 | sp|Q7Z7H3|CATIP\_HUMAN | MSSKVYSTGSRAKDHQPSGPECLPLPEANAEAIDFLSSLHKEELQMLFFSETLAMVSDTGEPQGELTIEVQRGKYQEKLGMLTYCLFVHASSRGFLDKMLCGNSLLGYLSEKLELMEQHSQDFIKFLILPMERKMSLLKQDDQLAVTRSIKEGEEVKTGVTSFPWSSIKGFISEAANLVLLRVMAWRRMVPSNARFLTLDTEGKLCYLTYQNLGFQTIQVDHQQAEVFIVEQTVHAEEGIPMSCQYYLLSDGHLAKRIQVGSPGCCIITKMPILREEDEIEPRPVFEKKPLVWEEDMELYSKFLDRKEELRLGHASYLRQHPEAHALISDFLLFLLLRQPEDVVTFAAEFFGPFDPWRPSSPALGSSHRPNPFRSLEPEGDARSGAA |
| 836 | sp|Q59VH7|CARP7\_CANAL | MQRVLELLLLSSTALAVIGDGFIALPVHKLQAGEGSAHFPNRLPIFDVVNGVAKSVEDDVNQIIQPIFGNGIFSGGSIQGTHSGNGHSVKYEVSLPSSSSQKGSNGPSSTDNKDTDPSKTGFSLDDLMNSIPTDFWNLIGLNKAPTSSDNGSKDADFTPSAVSQVEQPTSKSVESTAPGPASSASSSSSSEAASSSQPSEDSQPSSSANKKTGAFFLSLDNTQTLYTATLKVGSPAQEVQVMIDTGSSDLWFISSGNSQCKVNGGSIDCDKYGVFDKSKSSTWHDNKTDYSISYYDGDKASGTMGQDNITFADGFSIENANFAVIDNTTSSIGVFGVGYPELEAVKSKYTNLPFAMKEQNLIAKVAYSLYLDSRDAVQGYILFGGIDHAKYTGDLKAFDIVQSNDKYVYSQIPLTSVASSLNNYTNAYGLPAGSNHPKVGAVIYNGTDSFNGGVDLKDTPTLLDTGTTYSYLSKDQVESIVGLYGNVTYNDAGKAYEVPCWVGNPGNYLEFNFKNEQYIKVPTSEFVISVGTYASGAELCVFGILPGTHSILGDNFMRSVYAVFDLEDHVISIAQAAYNDNHAVVPIE |
| 837 | sp|P97821|CATC\_MOUSE | MGPWTHSLRAVLLLVLLGVCTVRSDTPANCTYPDLLGTWVFQVGPRSSRSDINCSVMEATEEKVVVHLKKLDTAYDELGNSGHFTLIYNQGFEIVLNDYKWFAFFKYEVRGHTAISYCHETMTGWVHDVLGRNWACFVGKKVESHIEKVNMNAAHLGGLQERYSERLYTHNHNFVKAINTVQKSWTATAYKEYEKMSLRDLIRRSGHSQRIPRPKPAPMTDEIQQQILNLPESWDWRNVQGVNYVSPVRNQESCGSCYSFASMGMLEARIRILTNNSQTPILSPQEVVSCSPYAQGCDGGFPYLIAGKYAQDFGVVEESCFPYTAKDSPCKPRENCLRYYSSDYYYVGGFYGGCNEALMKLELVKHGPMAVAFEVHDDFLHYHSGIYHHTGLSDPFNPFELTNHAVLLVGYGRDPVTGIEYWIIKNSWGSNWGESGYFRIRRGTDECAIESIAVAAIPIPKL |
| 838 | sp|P32562|CDC5\_YEAST | MSLGPLKAINDKQLNTRSKLVHTPIKGNTADLVGKENHFKQTKRLDPNNDHHHQPAQKKKREKLSALCKTPPSLIKTRGKDYHRGHFLGEGGFARCFQIKDDSGEIFAAKTVAKASIKSEKTRKKLLSEIQIHKSMSHPNIVQFIDCFEDDSNVYILLEICPNGSLMELLKRRKVLTEPEVRFFTTQICGAIKYMHSRRVIHRDLKLGNIFFDSNYNLKIGDFGLAAVLANESERKYTICGTPNYIAPEVLMGKHSGHSFEVDIWSLGVMLYALLIGKPPFQARDVNTIYERIKCRDFSFPRDKPISDEGKILIRDILSLDPIERPSLTEIMDYVWFRGTFPPSIPSTVMSEAPNFEDIPEEQSLVNFKDCMEKSLLLESMSSDKIQRQKRDYISSIKSSIDKLEEYHQNRPFLPHSLSPGGTKQKYKEVVDIEAQRRLNDLAREARIRRAQQAVLRKELIATSTNVIKSEISLRILASECHLTLNGIVEAEAQYKMGGLPKSRLPKIKHPMIVTKWVDYSNKHGFSYQLSTEDIGVLFNNGTTVLRLADAEEFWYISYDDREGWVASHYLLSEKPRELSRHLEVVDFFAKYMKANLSRVSTFGREEYHKDDVFLRRYTRYKPFVMFELSDGTFQFNFKDHHKMAISDGGKLVTYISPSHESTTYPLVEVLKYGEIPGYPESNFREKLTLIKEGLKQKSTIVTVD |
| 839 | sp|Q7M3M8|CAS\_DROME | MSNQMEFIMQLYMMNLMKQQQQMQLQLPQQQQQQQLAGYTYTQNEDISSSTSVQQQQQQQQEQLQQPQPDLRKTRTHKRISSQNTNCSSSRSCSPNSNLIAFQPQQYPGATAATPSTPNSHPSNLVNQMLLQSLPPLTQLMLQQQQQQHLLTTSNLLLTPTHTPSSLGKQDPLQHPLLLGQFAGSEQMATNNFLQSSTVTSTPIEREKAATPAPSAGATAGNLSAAQVKFEQESADDDEDDDKPLSSLTSCSSSGHTNASSEKLLLSGVHPLESTTDSLDSPSMYTPVKQPADSSYGLITPVDSDLTPNTPLQPTQTISLLTPPSSEQSKSLVSLSAASGLDALLQNEEVLKNLRKVSSYLECENSLCRQENLREHFHCHEEPCQGKILSKKDDIIRHLKWHKKRKESLKLGFARFSSSDDCAPAYGEGCAYNWKQTHYHCVYEHCPKVYVSTSDVQMHANFHRKDSEIVNEGFRRFRAHETCRIEDCPFFGKKISHYHCCREGCTHTFKNKADMDKHKTYHLKDHQLKMDGFKKILKTEVCPFDACKFSTVCNHIHCVREGCDYILHSSSQMISHKRKHDRQDGEQAYQQFKIKQDVEESSLDAMPQQQQQQQQQQPTSLSQSQSSSSVCGGSNTSTPLSSLSAEHFLARKRGRPPKKIQLPADAQQSEAKRLKVEDESSNPAMLLPQSQPAAAVHPLTSGLFPGLLPAAAAPGVDPTAPNFQLTHLMALFQLQNPLFYQNLYPGMTQNSSMLGNLAALSAASAAAAAAAAANGAGVQQPKAEFSFKPEFKE |
| 840 | sp|Q15782|CH3L2\_HUMAN | MGATTMDQKSLWAGVVVLLLLQGGSAYKLVCYFTNWSQDRQEPGKFTPENIDPFLCSHLIYSFASIENNKVIIKDKSEVMLYQTINSLKTKNPKLKILLSIGGYLFGSKGFHPMVDSSTSRLEFINSIILFLRNHNFDGLDVSWIYPDQKENTHFTVLIHELAEAFQKDFTKSTKERLLLTAGVSAGRQMIDNSYQVEKLAKDLDFINLLSFDFHGSWEKPLITGHNSPLSKGWQDRGPSSYYNVEYAVGYWIHKGMPSEKVVMGIPTYGHSFTLASAETTVGAPASGPGAAGPITESSGFLAYYEICQFLKGAKITRLQDQQVPYAVKGNQWVGYDDVKSMETKVQFLKNLNLGGAMIWSIDMDDFTGKSCNQGPYPLVQAVKRSLGSL |
| 841 | sp|Q08032|CDC45\_YEAST | MYYGISQFSEAYNKILRNSSSHSSCQLVIFVSCLNIDALCATKMLSLLFKKQLVQSQIVPIFGYSELRRHYSQLDDNINSLLLVGFGGVIDLEAFLEIDPQEYVIDTDEKSGEQSFRRDIYVLDAHRPWNLDNIFGSQIIQCFDDGTVDDTLGEQKEAYYKLLELDEESGDDELSGDENDNNGGDDEATDADEVTDEDEEDEDETISNKRGNSSIGPNDLSKRKQRKKQIHEYEGVLEEYYSQGTTVVNSISAQIYSLLSAIGETNLSNLWLNILGTTSLDIAYAQVYNRLYPLLQDEVKRLTPSSRNSVKTPDTLTLNIQPDYYLFLLRHSSLYDSFYYSNYVNAKLSLWNENGKKRLHKMFARMGIPLSTAQETWLYMDHSIKRELGIIFDKNLDRYGLQDIIRDGFVRTLGYRGSISASEFVEALTALLEVGNSTDKDSVKINNDNNDDTDGEEEEDNSAQKLTNLRKRWVSNFWLSWDALDDRKVELLNRGIQLAQDLQRAIFNTGVAILEKKLIKHLRIYRLCVLQDGPDLDLYRNPLTLLRLGNWLIECCAESEDKQLLPMVLASIDENTDTYLVAGLTPRYPRGLDTIHTKKPILNNFSMAFQQITAETDAKVRIDNFESSIIEIRREDLSPFLEKLTLSGLL |
| 842 | sp|P07858|CATB\_HUMAN | MWQLWASLCCLLVLANARSRPSFHPLSDELVNYVNKRNTTWQAGHNFYNVDMSYLKRLCGTFLGGPKPPQRVMFTEDLKLPASFDAREQWPQCPTIKEIRDQGSCGSCWAFGAVEAISDRICIHTNAHVSVEVSAEDLLTCCGSMCGDGCNGGYPAEAWNFWTRKGLVSGGLYESHVGCRPYSIPPCEHHVNGSRPPCTGEGDTPKCSKICEPGYSPTYKQDKHYGYNSYSVSNSEKDIMAEIYKNGPVEGAFSVYSDFLLYKSGVYQHVTGEMMGGHAIRILGWGVENGTPYWLVANSWNTDWGDNGFFKILRGQDHCGIESEVVAGIPRTDQYWEKI |
| 843 | sp|P40793|CDC42\_DROME | MQTIKCVVVGDGAVGKTCLLISYTTNKFPSEYVPTVFDNYAVTVMIGGEPYTLGLFDTAGQEDYDRLRPLSYPQTDVFLVCFSVVSPSSFENVKEKWVPEITHHCQKTPFLLVGTQIDLRDENSTLEKLAKNKQKPITMEQGEKLAKELKAVKYVECSALTQKGLKNVFDEAILAALEPPEPTKKRKCKFL |
| 844 | sp|Q6A068|CDC5L\_MOUSE | MPRIMIKGGVWRNTEDEILKAAVMKYGKNQWSRIASLLHRKSAKQCKARWYEWLDPSIKKTEWSREEEEKLLHLAKLMPTQWRTIAPIIGRTAAQCLEHYEFLLDKTAQRDNEEETTDDPRKLKPGEIDPNPETKPARPDPIDMDEDELEMLSEARARLANTQGKKAKRKAREKQLEEARRLAALQKRRELRAAGIEIQKKRKKKRGVDYNAEIPFEKKPALGFYDTSEENYQALDADFRKLRQQDLDGELRSEKEGRDRKKDKQHLKRKKESDLPSAILQTSGVSEFTKKRSKLVLPAPQISDAELQEVVKVGQASEVARQTAEESGITNSASSTLLSEYNVTNNSIALRTPRTPASQDRILQEAQNLMALTNVDTPLKGGLNTPLHESDFSGVTPQRQVVQTPNTVLSTPFRTPSNGAEGLTPRSGTTPKPVTNATPGRTPLRDKLNINPEDGMADYSDPSYVKQMERESREHLRLGLLGLPAPKNDFEIVLPENAEKELEEREIDDTYIEDAADVDARKQAIRDAERVKEMKRMHKAVQKDLPRPSEVNETILRPLNVEPPLTDLQKSEELIKKEMITMLHYDLLHHPYEPSGNKKGKNVGFATNNSEHITYLEHSPYEKFSKEDLKKAQDALVQEMEVVKQGMSHGELSSEAYNQVWEECYSQVLYLPAQSRYTRANLASKKDRIESLEKRLEINRGHMTTEAKRAAKMEKKMKILLGGYQSRAMGLMKQLNDLWDQIEQAHLELRTFEELKKHEDSAIPRRLECLKEDVQRQQEREKELQQRYADLLMEKETLQAKF |
| 845 | sp|Q9UKJ5|CHIC2\_HUMAN | MADFDEIYEEEEDEERALEEQLLKYSPDPVVVRGSGHVTVFGLSNKFESEFPSSLTGKVAPEEFKASINRVNSCLKKNLPVNVRWLLCGCLCCCCTLGCSMWPVICLSKRTRRSIEKLLEWENNRLYHKLCLHWRLSKRKCETNNMMEYVILIEFLPKTPIFRPD |
| 846 | sp|Q8CFN2|CDC42\_RAT | MQTIKCVVVGDGAVGKTCLLISYTTNKFPSEYVPTVFDNYAVTVMIGGEPYTLGLFDTAGQEDYDRLRPLSYPQTDVFLVCFSVVSPSSFENVKEKWVPEITHHCPKTPFLLVGTQIDLRDDPSTIEKLAKNKQKPITPETAEKLARDLKAVKYVECSALTQKGLKNVFDEAILAALEPPEPKKSRRCVLL |
| 847 | sp|Q00553|CFTR\_MACMU | MQRSPLEKASVVSKLFFSWTRPILRKGYRQRLELSDIYQIPSADSADNLSEKLEREWDRELASKKNPKLINALRRCFFWRFMFYGILLYLGEVTKAVQPLLLGRIIASYDPDNKEERSIAIYLGIGLCLLFIVRTLLLHPAIFGLHHIGMQMRIAMFSLIYKKTLKLSSRVLDKISIGQLVSLLSNNLNKFDEGLALAHFVWIVPLQVALLMGLIWELLQASAFCGLGFLIVLALFQAGLGRMMMKYRDQRAGKINERLVITSEMIENIQSVKAYCWEEAMEKMIENLRQTELKLTRKAAYVRYFNSSAFFFSGFFVVFLSVLPYALIKGIVLRKIFTTISFCIVLRMAVTRQFPWAVQTWYDSLGAINKIQDFLQKQEYKTLEYNLTTTEVVMENVTAFWEEGFGELFEKAKQNNSNRKTSNDDDSLFFSNFSLLGTPVLKDINFKIERGQLLAVAGSTGAGKTSLLMMIMGELEPSEGKIKHSGRISFCSQFSWIMPGTIKENIIFGVSYDEYRYRSVINACQLEEDISKFAEKDNIVLGEGGITLSGGQRARISLARAVYKDADLYLLDSPFGYLDVLTEKEIFESCVCKLMANKTRILVTSKMEHLKKADKILILHEGSSYFYGTFSELQNLRPDFSSKLMGYDSFDQFSAERRNSILTETLRRFSLEGDAPVSWTETKKQSFKQTGEFGEKRKNSILNPINSIRKFSIVQKTPLQMNGIEEDSDEPLERRLSLVPDSEQGEVILPRISVISTGPTLQARRRQSVLNLMTHSVNQGQSIHRKTAASTRKVSLAPQANLTELDIYSRRLSQETGLEISEEINEEDLKECFFDDMESIPAVTTWNTYLRYITVHKSLIFVLIWCLVIFLAEVAASLVVLWFLGNTPPQDKGNSTYSRNNSYAVIITRTSSYYVFYIYVGVADTLLAMGFFRGLPLVHTLITVSKILHHKMLHSVLQAPMSTLNTLKAGGILNRFSKDIAILDDLLPLTIFDFIQLLLIVIGAIAVVAVLQPYIFVATVPVIVAFIMLRAYFLQTSQQLKQLESEGRSPIFTHLVTSLKGLWTLRAFGRQPYFETLFHKALNLHTANWFLYLSTLRWFQMRIEMIFVIFFIAVTFISILTTGEGEGTVGIILTLAMNIMSTLQWAVNSSIDVDSLMRSVSRVFKFIDMPTEEGKPTRSTKPYKNGQLSKVMVIENSHVKKDDIWPSGGQMTVKDLTAKYTEGGNPILENISFSISPGQRVGLLGRTGSGKSTLLSAFLRLLNTEGEIQIDGVSWDSITLQQWRKAFGVIPQKVFIFSGTFRKNLDPYEQWSDQEIWKVADEVGLRSVIEQFPGKLDFVLVDGGCVLSHGHKQLMCLARSVLSKAKILLLDEPSAHLDPVTYQIIRRTLKQAFADCTVILCEHRIEAMLECQQFLVIEENKVRQYDSIQKLLNERSLFRQAISPSDRVKLFPHRNSSKCKTQPQIAALKEETEEEVQDTRL |
| 848 | sp|P35790|CHKA\_HUMAN | MKTKFCTGGEAEPSPLGLLLSCGSGSAAPAPGVGQQRDAASDLESKQLGGQQPPLALPPPPPLPLPLPLPQPPPPQPPADEQPEPRTRRRAYLWCKEFLPGAWRGLREDEFHISVIRGGLSNMLFQCSLPDTTATLGDEPRKVLLRLYGAILQMRSCNKEGSEQAQKENEFQGAEAMVLESVMFAILAERSLGPKLYGIFPQGRLEQFIPSRRLDTEELSLPDISAEIAEKMATFHGMKMPFNKEPKWLFGTMEKYLKEVLRIKFTEESRIKKLHKLLSYNLPLELENLRSLLESTPSPVVFCHNDCQEGNILLLEGRENSEKQKLMLIDFEYSSYNYRGFDIGNHFCEWMYDYSYEKYPFFRANIRKYPTKKQQLHFISSYLPAFQNDFENLSTEEKSIIKEEMLLEVNRFALASHFLWGLWSIVQAKISSIEFGYMDYAQARFDAYFHQKRKLGV |
| 849 | sp|Q9N3Z3|CHK1\_CAEEL | MSAASTTSTPAAAAVAPQQPESLYRVVQTLGEGAFGEVLLIVNTKNPEVAAAMKKINIANKSKDFIDNIRKEYLLQKRVSAVGHDNVIRMIGMRNDPQFYYLFLEYADGGELFDKIEPDCGMSPVFAQFYFKQLICGLKFIHDNDVVHRDIKPENLLLTGTHVLKISDFGMATLYRNKGEERLLDLSCGTIPYAAPELCAGKKYRGPPVDVWSSGIVLIAMLTGELPWDRASDASQSYMGWISNTSLDERPWKKIDVRALCMLRKIVTDKTDKRATIEQIQADPWYQHNFGQVETPNGRPLKRARNNDENITCTQQAECSAKRRHLETPNEKSTLAERQNASFSQPTKTEDLLLTQHIDMSQTNSNLLQRMVCRMTRFCVVTDIRSTYQKVARASEHAGFGVRETDDYRLLVTWREVSMMVSLYTMGDIPDKPRVMVDFRRSRGDGIQFKKMFMDVRNRMHEWICTDGNNWLANLGYVPRNPQIVNGGGVNVEHSASSINVDV |
| 850 | sp|P54609|CD48A\_ARATH | MSTPAESSDSKSKKDFSTAILERKKSPNRLVVDEAINDDNSVVSLHPATMEKLQLFRGDTILIKGKKRKDTVCIALADETCEEPKIRMNKVVRSNLRVRLGDVISVHQCPDVKYGKRVHILPVDDTVEGVTGNLFDAYLKPYFLEAYRPVRKGDLFLVRGGMRSVEFKVIETDPAEYCVVAPDTEIFCEGEPVKREDEERLDDVGYDDVGGVRKQMAQIRELVELPLRHPQLFKSIGVKPPKGILLYGPPGSGKTLIARAVANETGAFFFCINGPEIMSKLAGESESNLRKAFEEAEKNAPSIIFIDEIDSIAPKREKTNGEVERRIVSQLLTLMDGLKSRAHVIVMGATNRPNSIDPALRRFGRFDREIDIGVPDEIGRLEVLRIHTKNMKLAEDVDLERISKDTHGYVGADLAALCTEAALQCIREKMDVIDLEDDSIDAEILNSMAVTNEHFHTALGNSNPSALRETVVEVPNVSWNDIGGLENVKRELQETVQYPVEHPEKFEKFGMSPSKGVLFYGPPGCGKTLLAKAIANECQANFISVKGPELLTMWFGESEANVREIFDKARQSAPCVLFFDELDSIATQRGGGSGGDGGGAADRVLNQLLTEMDGMNAKKTVFIIGATNRPDIIDSALLRPGRLDQLIYIPLPDEDSRLNIFKAALRKSPIAKDVDIGALAKYTQGFSGADITEICQRACKYAIRENIEKDIEKEKRRSENPEAMEEDGVDEVSEIKAAHFEESMKYARRSVSDADIRKYQAFAQTLQQSRGFGSEFRFENSAGSGATTGVADPFATSAAAAGDDDDLYN |
| 851 | sp|P9WPH3|CDD\_MYCTU | MPDVDWNMLRGNATQAAAGAYVPYSRFAVGAAALVDDGRVVTGCNVENVSYGLTLCAECAVVCALHSTGGGRLLALACVDGHGSVLMPCGRCRQVLLEHGGSELLIDHPVRPRRLGDLLPDAFGLDDLPRERR |
| 852 | sp|P40202|CCS1\_YEAST | MTTNDTYEATYAIPMHCENCVNDIKACLKNVPGINSLNFDIEQQIMSVESSVAPSTIINTLRNCGKDAIIRGAGKPNSSAVAILETFQKYTIDQKKDTAVRGLARIVQVGENKTLFDITVNGVPEAGNYHASIHEKGDVSKGVESTGKVWHKFDEPIECFNESDLGKNLYSGKTFLSAPLPTWQLIGRSFVISKSLNHPENEPSSVKDYSFLGVIARSAGVWENNKQVCACTGKTVWEERKDALANNIK |
| 853 | sp|Q9Y375|CIA30\_HUMAN | MALVHKLLRGTYFLRKFSKPTSALYPFLGIRFAEYSSSLQKPVASPGKASSQRKTEGDLQGDHQKEVALDITSSEEKPDVSFDKAIRDEAIYHFRLLKDEIVDHWRGPEGHPLHEVLLEQAKVVWQFRGKEDLDKWTVTSDKTIGGRSEVFLKMGKNNQSALLYGTLSSEAPQDGESTRSGYCAMISRIPRGAFERKMSYDWSQFNTLYLRVRGDGRPWMVNIKEDTDFFQRTNQMYSYFMFTRGGPYWQEVKIPFSKFFFSNRGRIRDVQHELPLDKISSIGFTLADKVDGPFFLEIDFIGVFTDPAHTEEFAYENSPELNPRLFK |
| 854 | sp|Q16667|CDKN3\_HUMAN | MKPPSSIQTSEFDSSDEEPIEDEQTPIHISWLSLSRVNCSQFLGLCALPGCKFKDVRRNVQKDTEELKSCGIQDIFVFCTRGELSKYRVPNLLDLYQQCGIITHHHPIADGGTPDIASCCEIMEELTTCLKNYRKTLIHCYGGLGRSCLVAACLLLYLSDTISPEQAIDSLRDLRGSGAIQTIKQYNYLHEFRDKLAAHLSSRDSQSRSVSR |
| 855 | sp|P34810|CD68\_HUMAN | MRLAVLFSGALLGLLAAQGTGNDCPHKKSATLLPSFTVTPTVTESTGTTSHRTTKSHKTTTHRTTTTGTTSHGPTTATHNPTTTSHGNVTVHPTSNSTATSQGPSTATHSPATTSHGNATVHPTSNSTATSPGFTSSAHPEPPPPSPSPSPTSKETIGDYTWTNGSQPCVHLQAQIQIRVMYTTQGGGEAWGISVLNPNKTKVQGSCEGAHPHLLLSFPYGHLSFGFMQDLQQKVVYLSYMAVEYNVSFPHAAQWTFSAQNASLRDLQAPLGQSFSCSNSSIILSPAVHLDLLSLRLQAAQLPHTGVFGQSFSCPSDRSILLPLIIGLILLGLLALVLIAFCIIRRRPSAYQAL |
| 856 | sp|Q9QWV9|CCNT1\_MOUSE | MEGERKNNNKRWYFTREQLENSPSRRFGVDSDKELSYRQQAANLLQDMGQRLNVSQLTINTAIVYMHRFYMIQSFTQFHRYSMAPAALFLAAKVEEQPKKLEHVIKVAHTCLHPQESLPDTRSEAYLQQVQDLVILESIILQTLGFELTIDHPHTHVVKCTQLVRASKDLAQTSYFMATNSLHLTTFSLQYTPPVVACVCIHLACKWSNWEIPVSTDGKHWWEYVDATVTLELLDELTHEFLQILEKTPSRLKRIRNWRAYQAAMKTKPDDRGADENTSEQTILNMISQTSSDTTIAGLMSMSTASTSAVPSLPSSEESSSSLTSVDMLQGERWLSSQPPFKLEAAQGHRTSESLALIGVDHSLQQDGSSAFGSQKQASKSVPSAKVSLKEYRAKHAEELAAQKRQLENMEANVKSQYAYAAQNLLSHDSHSSVILKMPIESSENPERPFLDKADKSALKMRLPVASGDKAVSSKPEEIKMRIKVHSAGDKHNSIEDSVTKSREHKEKQRTHPSNHHHHHNHHSHRHSHLQLPAGPVSKRPSDPKHSSQTSTLAHKTYSLSSTLSSSSSTRKRGPPEETGAAVFDHPAKIAKSTKSSLNFPFPPLPTMTQLPGHSSDTSGLPFSQPSCKTRVPHMKLDKGPPGANGHNATQSIDYQDTVNMLHSLLSAQGVQPTQAPAFEFVHSYGEYMNPRAGAISSRSGTTDKPRPPPLPSEPPPPLPPLPK |
| 857 | sp|P0ABQ0|COABC\_ECOLI | MSLAGKKIVLGVSGGIAAYKTPELVRRLRDRGADVRVAMTEAAKAFITPLSLQAVSGYPVSDSLLDPAAEAAMGHIELGKWADLVILAPATADLIARVAAGMANDLVSTICLATPAPVAVLPAMNQQMYRAAATQHNLEVLASRGLLIWGPDSGSQACGDIGPGRMLDPLTIVDMAVAHFSPVNDLKHLNIMITAGPTREPLDPVRYISNHSSGKMGFAIAAAAARRGANVTLVSGPVSLPTPPFVKRVDVMTALEMEAAVNASVQQQNIFIGCAAVADYRAATVAPEKIKKQATQGDELTIKMVKNPDIVAGVAALKDHRPYVVGFAAETNNVEEYARQKRIRKNLDLICANDVSQPTQGFNSDNNALHLFWQDGDKVLPLERKELLGQLLLDEIVTRYDEKNRR |
| 858 | sp|Q15762|CD226\_HUMAN | MDYPTLLLALLHVYRALCEEVLWHTSVPFAENMSLECVYPSMGILTQVEWFKIGTQQDSIAIFSPTHGMVIRKPYAERVYFLNSTMASNNMTLFFRNASEDDVGYYSCSLYTYPQGTWQKVIQVVQSDSFEAAVPSNSHIVSEPGKNVTLTCQPQMTWPVQAVRWEKIQPRQIDLLTYCNLVHGRNFTSKFPRQIVSNCSHGRWSVIVIPDVTVSDSGLYRCYLQASAGENETFVMRLTVAEGKTDNQYTLFVAGGTVLLLLFVISITTIIVIFLNRRRRRERRDLFTESWDTQKAPNNYRSPISTSQPTNQSMDDTREDIYVNYPTFSRRPKTRV |
| 859 | sp|P51677|CCR3\_HUMAN | MTTSLDTVETFGTTSYYDDVGLLCEKADTRALMAQFVPPLYSLVFTVGLLGNVVVVMILIKYRRLRIMTNIYLLNLAISDLLFLVTLPFWIHYVRGHNWVFGHGMCKLLSGFYHTGLYSEIFFIILLTIDRYLAIVHAVFALRARTVTFGVITSIVTWGLAVLAALPEFIFYETEELFEETLCSALYPEDTVYSWRHFHTLRMTIFCLVLPLLVMAICYTGIIKTLLRCPSKKKYKAIRLIFVIMAVFFIFWTPYNVAILLSSYQSILFGNDCERSKHLDLVMLVTEVIAYSHCCMNPVIYAFVGERFRKYLRHFFHRHLLMHLGRYIPFLPSEKLERTSSVSPSTAEPELSIVF |
| 860 | sp|P35523|CLCN1\_HUMAN | MEQSRSQQRGGEQSWWGSDPQYQYMPFEHCTSYGLPSENGGLQHRLRKDAGPRHNVHPTQIYGHHKEQFSDREQDIGMPKKTGSSSTVDSKDEDHYSKCQDCIHRLGQVVRRKLGEDGIFLVLLGLLMALVSWSMDYVSAKSLQAYKWSYAQMQPSLPLQFLVWVTFPLVLILFSALFCHLISPQAVGSGIPEMKTILRGVVLKEYLTMKAFVAKVVALTAGLGSGIPVGKEGPFVHIASICAAVLSKFMSVFCGVYEQPYYYSDILTVGCAVGVGCCFGTPLGGVLFSIEVTSTYFAVRNYWRGFFAATFSAFVFRVLAVWNKDAVTITALFRTNFRMDFPFDLKELPAFAAIGICCGLLGAVFVYLHRQVMLGVRKHKALSQFLAKHRLLYPGIVTFVIASFTFPPGMGQFMAGELMPREAISTLFDNNTWVKHAGDPESLGQSAVWIHPRVNVVIIIFLFFVMKFWMSIVATTMPIPCGGFMPVFVLGAAFGRLVGEIMAMLFPDGILFDDIIYKILPGGYAVIGAAALTGAVSHTVSTAVICFELTGQIAHILPMMVAVILANMVAQSLQPSLYDSIIQVKKLPYLPDLGWNQLSKYTIFVEDIMVRDVKFVSASYTYGELRTLLQTTTVKTLPLVDSKDSMILLGSVERSELQALLQRHLCPERRLRAAQEMARKLSELPYDGKARLAGEGLPGAPPGRPESFAFVDEDEDEDLSGKSELPPSLALHPSTTAPLSPEEPNGPLPGHKQQPEAPEPAGQRPSIFQSLLHCLLGRARPTKKKTTQDSTDLVDNMSPEEIEAWEQEQLSQPVCFDSCCIDQSPFQLVEQTTLHKTHTLFSLLGLHLAYVTSMGKLRGVLALEELQKAIEGHTKSGVQLRPPLASFRNTTSTRKSTGAPPSSAENWNLPEDRPGATGTGDVIAASPETPVPSPSPEPPLSLAPGKVEGELEELELVESPGLEEELADILQGPSLRSTDEEDEDELIL |
| 861 | sp|P0C195|CM3A\_CONKI | KRNGCCNCSSKWCRDHSRCCGR |
| 862 | sp|Q8MN58|CLC\_DICDI | MSDPFGEENVEITEEFVEGDINENDLIDGNVEYVDGNGISFETTTFDNSNNNNNNNNHNNNSYNSGFDGDLSSVDGDMKPKETAPAMREYLEKHEKEMQEKKKKSEEKRQKKIAEAKQSLDNFYSEREAKKKTALKNNRDHNKSLETDSTSGNTTHTWESVVSMIDLQAKPNPANKDTSRMREILIRLKNQPIV |
| 863 | sp|Q9LEQ3|CNG18\_ARATH | MNKIRSLRCLLPETITSASTAASNRGSDGSQFSVLWRHQILDPDSNIVTYWNHVFLITSILALFLDPFYFYVPYVGGPACLSIDISLAATVTFFRTVADIFHLLHIFMKFRTAFVARSSRVFGRGELVMDSREIAMRYLKTDFLIDVAAMLPLPQLVIWLVIPAATNGTANHANSTLALIVLVQYIPRSFIIFPLNQRIIKTTGFIAKTAWAGAAYNLLLYILASHVLGAMWYLSSIGRQFSCWSNVCKKDNALRVLDCLPSFLDCKSLEQPERQYWQNVTQVLSHCDATSSTTNFKFGMFAEAFTTQVATTDFVSKYLYCLWWGLRNLSSYGQNITTSVYLGETLFCITICIFGLILFTLLIGNMQSSLQSMSVRVEEWRVKRRDTEEWMRHRQLPPELQERVRRFVQYKWLATRGVDEESILHSLPTDLRREIQRHLCLSLVRRVPFFSQMDDQLLDAICGCLVSSLSTAGTYIFREGDPVNEMLFVIRGQIESSTTNGGRSGFFNSTTLRPGDFCGEELLTWALMPNSTLNLPSSTRSVRALSEVEAFALSAEDLKFVAHQFKRLQSKKLQHAFRYYSHQWRAWGACFVQSAWRRYKRRKLAKELSLHESSGYYYPDETGYNEEDEETREYYYGSDEEGGSMDNTNLGATILASKFAANTRRGTNQKASSSSTGKKDGSSTSLKMPQLFKPDEPDFSIDKEDV |
| 864 | sp|Q9LQF2|CINV1\_ARATH | MEGVGLRAVGSHCSLSEMDDLDLTRALDKPRLKIERKRSFDERSMSELSTGYSRHDGIHDSPRGRSVLDTPLSSARNSFEPHPMMAEAWEALRRSMVFFRGQPVGTLAAVDNTTDEVLNYDQVFVRDFVPSALAFLMNGEPDIVKHFLLKTLQLQGWEKRVDRFKLGEGVMPASFKVLHDPIRETDNIVADFGESAIGRVAPVDSGFWWIILLRAYTKSTGDLTLSETPECQKGMKLILSLCLAEGFDTFPTLLCADGCSMIDRRMGVYGYPIEIQALFFMALRSALSMLKPDGDGREVIERIVKRLHALSFHMRNYFWLDHQNLNDIYRFKTEEYSHTAVNKFNVMPDSIPEWVFDFMPLRGGYFVGNVGPAHMDFRWFALGNCVSILSSLATPDQSMAIMDLLEHRWAELVGEMPLKICYPCLEGHEWRIVTGCDPKNTRWSYHNGGSWPVLLWQLTAACIKTGRPQIARRAVDLIESRLHRDCWPEYYDGKLGRYVGKQARKYQTWSIAGYLVAKMLLEDPSHIGMISLEEDKLMKPVIKRSASWPQL |
| 865 | sp|Q8N5K1|CISD2\_HUMAN | MVLESVARIVKVQLPAYLKRLPVPESITGFARLTVSEWLRLLPFLGVLALLGYLAVRPFLPKKKQQKDSLINLKIQKENPKVVNEINIEDLCLTKAAYCRCWRSKTFPACDGSHNKHNELTGDNVGPLILKKKEV |
| 866 | sp|O35492|CLK3\_MOUSE | MPVLSARRKRLASTAGPRRGSGPSLAVRWVPPLGPEPSSDRGRAPMRPRGPTCSTTRRGAGRGPRLLPGPPGRDLHRCRPDPGGAGQSPRVCEFGARAVRPLGRVEPGPPTAASREGAVLPRAEARAGSGRGARSGEWGLAAAGAWETMHHCKRYRSPEPDPYLSYRWKRRRSYSREHEGRLRYPSRREPPPRRSRSRSHDRIPYQRRYREHRDSDTYRCEERSPSFGEDCYGSSRSRHRRRSRERAPYRTRKHAHHCHKRRTRSCSSASSRSQQSSKRSSRSVEDDKEGHLVCRIGDWLQERYEIVGNLGEGTFGKVVECLDHARGKSQVALKIIRNVGKYREAARLEINVLKKIKEKDKENKFLCVLMSDWFNFHGHMCIAFELLGKNTFEFLKENNFQPYPLPHVRHMAYQLCHALRFLHENQLTHTDLKPENILFVNSEFETLYNEHKSCEEKSVKNTSIRVADFGSATFDHEHHTTIVATRHYRPPEVILELGWAQPCDVWSIGCILFEYYRGFTLFQTHENREHLVMMEKILGPIPSHMIHRTRKQKYFYKGGLVWDENSSDGRYVKENCKPLKSYMLQDSLEHVQLFDLMRRMLEFDPAQRITLAEALLHPFFAGLTPEERSFHSSRNPSR |
| 867 | sp|P15509|CSF2R\_HUMAN | MLLLVTSLLLCELPHPAFLLIPEKSDLRTVAPASSLNVRFDSRTMNLSWDCQENTTFSKCFLTDKKNRVVEPRLSNNECSCTFREICLHEGVTFEVHVNTSQRGFQQKLLYPNSGREGTAAQNFSCFIYNADLMNCTWARGPTAPRDVQYFLYIRNSKRRREIRCPYYIQDSGTHVGCHLDNLSGLTSRNYFLVNGTSREIGIQFFDSLLDTKKIERFNPPSNVTVRCNTTHCLVRWKQPRTYQKLSYLDFQYQLDVHRKNTQPGTENLLINVSGDLENRYNFPSSEPRAKHSVKIRAADVRILNWSSWSEAIEFGSDDGNLGSVYIYVLLIVGTLVCGIVLGFLFKRFLRIQRLFPPVPQIKDKLNDNHEVEDEIIWEEFTPEEGKGYREEVLTVKEIT |
| 868 | sp|C7NBY4|CS13A\_LEPBD | MKVTKVGGISHKKYTSEGRLVKSESEENRTDERLSALLNMRLDMYIKNPSSTETKENQKRIGKLKKFFSNKMVYLKDNTLSLKNGKKENIDREYSETDILESDVRDKKNFAVLKKIYLNENVNSEELEVFRNDIKKKLNKINSLKYSFEKNKANYQKINENNIEKVEGKSKRNIIYDYYRESAKRDAYVSNVKEAFDKLYKEEDIAKLVLEIENLTKLEKYKIREFYHEIIGRKNDKENFAKIIYEEIQNVNNMKELIEKVPDMSELKKSQVFYKYYLDKEELNDKNIKYAFCHFVEIEMSQLLKNYVYKRLSNISNDKIKRIFEYQNLKKLIENKLLNKLDTYVRNCGKYNYYLQDGEIATSDFIARNRQNEAFLRNIIGVSSVAYFSLRNILETENENDITGRMRGKTVKNNKGEEKYVSGEVDKIYNENKKNEVKENLKMFYSYDFNMDNKNEIEDFFANIDEAISSIRHGIVHFNLELEGKDIFAFKNIAPSEISKKMFQNEINEKKLKLKIFRQLNSANVFRYLEKYKILNYLKRTRFEFVNKNIPFVPSFTKLYSRIDDLKNSLGIYWKTPKTNDDNKTKEIIDAQIYLLKNIYYGEFLNYFMSNNGNFFEISKEIIELNKNDKRNLKTGFYKLQKFEDIQEKIPKEYLANIQSLYMINAGNQDEEEKDTYIDFIQKIFLKGFMTYLANNGRLSLIYIGSDEETNTSLAEKKQEFDKFLKKYEQNNNIKIPYEINEFLREIKLGNILKYTERLNMFYLILKLLNHKELTNLKGSLEKYQSANKEEAFSDQLELINLLNLDNNRVTEDFELEADEIGKFLDFNGNKVKDNKELKKFDTNKIYFDGENIIKHRAFYNIKKYGMLNLLEKIADKAGYKISIEELKKYSNKKNEIEKNHKMQENLHRKYARPRKDEKFTDEDYESYKQAIENIEEYTHLKNKVEFNELNLLQGLLLRILHRLVGYTSIWERDLRFRLKGEFPENQYIEEIFNFENKKNVKYKGGQIVEKYIKFYKELHQNDEVKINKYSSANIKVLKQEKKDLYIRNYIAHFNYIPHAEISLLEVLENLRKLLSYDRKLKNAVMKSVVDILKEYGFVATFKIGADKKIGIQTLESEKIVHLKNLKKKKLMTDRNSEELCKLVKIMFEYKMEEKKSEN |
| 869 | sp|P18326|CPXE\_STRGO | MTDTATTPQTTDAPAFPSNRSCPYQLPDGYAQLRDTPGPLHRVTLYDGRQAWVVTKHEAARKLLGDPRLSSNRTDDNFPATSPRFEAVRESPQAFIGLDPPEHGTRRRMTISEFTVKRIKGMRPEVEEVVHGFLDEMLAAGPTADLVSQFALPVPSMVICRLLGVPYADHEFFQDASKRLVQSTDAQSALTARNDLAGYLDGLITQFQTEPGAGLVGALVADQLANGEIDREELISTAMLLLIAGHETTASMTSLSVITLLDHPEQYAALRADRSLVPGAVEELLRYLAIADIAGGRVATADIEVEGHLIRAGEGVIVVNSIANRDGTVYEDPDALDIHRSARHHLAFGFGVHQCLGQNLARLELEVILNALMDRVPTLRLAVPVEQLVLRPGTTIQGVNELPVTW |
| 870 | sp|Q5HYK3|COQ5\_HUMAN | MAAPGSCALWSYCGRGWSRAMRGCQLLGLRSSWPGDLLSARLLSQEKRAAETHFGFETVSEEEKGGKVYQVFESVAKKYDVMNDMMSLGIHRVWKDLLLWKMHPLPGTQLLDVAGGTGDIAFRFLNYVQSQHQRKQKRQLRAQQNLSWEEIAKEYQNEEDSLGGSRVVVCDINKEMLKVGKQKALAQGYRAGLAWVLGDAEELPFDDDKFDIYTIAFGIRNVTHIDQALQEAHRVLKPGGRFLCLEFSQVNNPLISRLYDLYSFQVIPVLGEVIAGDWKSYQYLVESIRRFPSQEEFKDMIEDAGFHKVTYESLTSGIVAIHSGFKL |
| 871 | sp|Q9UNS2|CSN3\_HUMAN | MASALEQFVNSVRQLSAQGQMTQLCELINKSGELLAKNLSHLDTVLGALDVQEHSLGVLAVLFVKFSMPSVPDFETLFSQVQLFISTCNGEHIRYATDTFAGLCHQLTNALVERKQPLRGIGILKQAIDKMQMNTNQLTSIHADLCQLCLLAKCFKPALPYLDVDMMDICKENGAYDAKHFLCYYYYGGMIYTGLKNFERALYFYEQAITTPAMAVSHIMLESYKKYILVSLILLGKVQQLPKYTSQIVGRFIKPLSNAYHELAQVYSTNNPSELRNLVNKHSETFTRDNNMGLVKQCLSSLYKKNIQRLTKTFLTLSLQDMASRVQLSGPQEAEKYVLHMIEDGEIFASINQKDGMVSFHDNPEKYNNPAMLHNIDQEMLKCIELDERLKAMDQEITVNPQFVQKSMGSQEDDSGNKPSSYS |
| 872 | sp|Q92905|CSN5\_HUMAN | MAASGSGMAQKTWELANNMQEAQSIDEIYKYDKKQQQEILAAKPWTKDHHYFKYCKISALALLKMVMHARSGGNLEVMGLMLGKVDGETMIIMDSFALPVEGTETRVNAQAAAYEYMAAYIENAKQVGRLENAIGWYHSHPGYGCWLSGIDVSTQMLNQQFQEPFVAVVIDPTRTISAGKVNLGAFRTYPKGYKPPDEGPSEYQTIPLNKIEDFGVHCKQYYALEVSYFKSSLDRKLLELLWNKYWVNTLSSSSLLTNADYTTGQVFDLSEKLEQSEAQLGRGSFMLGLETHDRKSEDKLAKATRDSCKTTIEAIHGLMSQVIKDKLFNQINIS |
| 873 | sp|P19454|CSK22\_YEAST | MPLPPSTLNQKSNRVYSVARVYKNACEERPQEYWDYEQGVTIDWGKISNYEIINKIGRGKYSEVFSGRCIVNNQKCVIKVLKPVKMKKIYRELKILTNLTGGPNVVGLYDIVQDADSKIPALIFEEIKNVDFRTLYPTFKLPDIQYYFTQLLIALDYCHSMGIMHRDVKPQNVMIDPTERKLRLIDWGLAEFYHPGVDYNVRVASRYHKGPELLVNLNQYDYSLDLWSVGCMLAAIVFKKEPFFKGSSNPDQLVKIATVLGTKELLGYLGKYGLHLPSEYDNIMRDFTKKSWTHFITSETKLAVPEVVDLIDNLLRYDHQERLTAKEAMDHKFFKTKFE |
| 874 | sp|P08679|CISY2\_YEAST | MTVPYLNSNRNVASYLQSNSSQEKTLKERFSEIYPIHAQDVRQFVKEHGKTKISDVLLEQVYGGMRGIPGSVWEGSVLDPEDGIRFRGRTIADIQKDLPKAKGSSQPLPEALFWLLLTGEVPTQAQVENLSADLMSRSELPSHVVQLLDNLPKDLHPMAQFSIAVTALESESKFAKAYAQGISKQDYWSYTFEDSLDLLGKLPVIAAKIYRNVFKDGKMGEVDPNADYAKNLVNLIGSKDEDFVDLMRLYLTIHSDHEGGNVSAHTSHLVGSALSSPYLSLASGLNGLAGPLHGRANQEVLEWLFALKEEVNDDYSKDTIEKYLWDTLNSGRVIPGYGHAVLRKTDPRYMAQRKFAMDHFPDYELFKLVSSIYEVAPGVLTEHGKTKNPWPNVDAHSGVLLQYYGLKESSFYTVLFGVSRAFGILAQLITDRAIGASIERPKSYSTEKYKELVKNIESKL |
| 875 | sp|Q64391|CP1A2\_CAVPO | MPLSWLLPFSAMELLLTATIFYLVLWVVKAFRLQVPKGLKSPPGPWGWPLIGHVLTLGKNPHLALTRLSARYGDVLQIRIGSTPVVVLSGLDTIRQALVRQSDDFKGRPDLYSSTFISDGQSMIFNPDSGPVWAARRRLAQSALQSFSVASDPASVSSCYLEEHVSREAEHLVTKLLDLMAGPGCFEPSSQIVGSVANVIGAMCFGKNFPQTSEEMLQIVNTSKEFTEFASSGNPVDFFPILRYLPNPMLQQFKDFNKRFLQFLQKTVQEHYQDFDKNHVQDIASALFKHSEESPHVNGDLIPRKKIVNLVNDIFGAGFDTVTTAISWSLLYLVTKPEIQKKIHKELDAVIGRDRKPRLADRPQLPYMEAFILEVFRYSSFLPFTIPHCTTRDTILNGFYIPKDRCVFINQWQVNHDPKQWEDPFEFRPERFLLANNTAVDKTLSDKILLFGLGKRRCIGETLGRWEVFLFLAILLQQLEFSVPPGVKVDLTPVYGLTMKPPHCQHVQARPRFSK |
| 876 | sp|Q9C5S8|CRK5\_ARATH | MSAYTSLNFLFLLTFFIGSLRVSAQLQDPTYVGHVCTNRISRNSIYFSNLQTLLTSLSSNNAYFSLGSHSLTKGQNSDMVFGLYLCKGDLSPESCRECVIFAAKDTRSRCPGGKEFLIQYDECMLGYSDRNIFMDTVTTTTIITWNTQKVTADQSDRFNDAVLSLMKKSAEEAANSTSKKFAVKKSDFSSSQSLYASVQCIPDLTSEDCVMCLQQSIKELYFNKVGGRFLVPSCNSRYEVYPFYKETIEGTVLPPPVSAPPLPLVSTPSFPPGKGKNSTVIIIAIVVPVAISVLICVAVFSFHASKRAKKTYDTPEEDDITTAGSLQFDFKVIEAATDKFSMCNKLGQGGFGQVYKGTLPNGVQVAVKRLSKTSGQGEKEFKNEVVVVAKLQHRNLVKLLGFCLEREEKILVYEFVSNKSLDYFLFDSRMQSQLDWTTRYKIIGGIARGILYLHQDSRLTIIHRDLKAGNILLDADMNPKVADFGMARIFEIDQTEAHTRRVVGTYGYMSPEYAMYGQFSMKSDVYSFGVLVLEIISGRKNSSLYQMDASFGNLVTYTWRLWSDGSPLDLVDSSFRDSYQRNEIIRCIHIALLCVQEDTENRPTMSAIVQMLTTSSIALAVPQPPGFFFRSNHEQAGPSMDKSSLCSIDAASITILAPR |
| 877 | sp|P56591|CP1A1\_SHEEP | MWIMFSVFGLPIPISATELLLASAVFCLVFWVVRTWRPRVPQGLKSPPEPWGWPCLGHVLTLGKNPHVVLSQLSQRYGDVLQIRIGCTPVLVLSGLDTIRQALVRQGDDFKGRPDLYSFTLVSDGQSMTFNPDSGPVWAARRRLAQNALKSFSTASDPASLSSCYLEEHVSKEAEYLLGKFQELMSGPGRFDPYRYVVVSVANVICAICFGRRYDHDDQEFLSLINLSNEFGEITASGNPADFIPVLRYLPNTALDLFKDLNRRFYVFVQKIVKEHYKTFEKGHIRDITDSLIEHCQDKRLDENANIQLSDEKIINVVMDLFGAGFDTVTTAISWSLLYLVTSPRVQKKIQEELDTVIGRARWPQLSDRPQLPYLEAFILETFRHSSFVPFTIPHSTTRDTNLNGFYIPKGXCVFVNQWQINHDQKLWEDPSEFRPERFLTTDGTVNKVLSEKVIIFGLGKRQCIGEIIARLEVFLFLAILLHQVEFHVTPGVKVDMTPLYGLTMKHARCEHFQVRIRS |
| 878 | sp|Q9VWW0|CREBB\_DROME | MDNSIVEENGNSSAASGSNDVVDVVAQQAAAAVGGGGGGGGGGGGGNPQQQQQNPQSTTAGGPTGATNNAQGGGVSSVLTTTANCNIQYPIQTLAQHGLQVSIWGPGAWCQLSSVRCYGSQPEVATKDVQSVIQANPSGVIQTAAGTQQQQQALAAATAMQKVVYVAKPPNSTVIHTTPGNAVQVRNKIPPTFPCKIKPEPNTQHPEDSDESLSDDDSQHHRSELTRRPSYNKIFTEISGPDMSGASLPMSDGVLNSQLAGTGAGGNAANSSLMQLDPTYYLSNRMSYNTNNSGIAEDQTRKREIRLQKNREAARECRRKKKEYIKCLENRVAVLENQNKALIEELKSLKELYCQTKND |
| 879 | sp|O05442|CPNT\_MYCTU | MAPLAVDPAALDSAGGAVVAAGAGLGAVISSLTAALAGCAGMAGDDPAGAVFGRSYDGSAAALVQAMSVARNGLCNLGDGVRMSAHNYSLAEAMSDVAGRAAPLPAPPPSGCVGVGAPPSAVGGGGGAPKGWGWVAPYIGMIWPNGDSTKLRAAAVAWRSAGTQFALTEIQSTAGPMGVIRAQQLPEAGLIESAFADAYASTTAVVGQCHQLAAQLDAYAARIDAVHAAVLDLLARICDPLTGIKEVWEFLTDQDEDEIQRIAHDIAVVVDQFSGEVDALAAEITAVVSHAEAVITAMADHAGKQWDRFLHSNPVGVVIDGTGQQLKGFGEEAFGMAKDSWDLGPLRASIDPFGWYRSWEEMLTGMAPLAGLGGENAPGVVESWKQFGKSLIHWDEWTTNPNEALGKTVFDAATLALPGGPLSKLGSKGRDILAGVRGLKERLEPTTPHLEPPATPPRPGPQPPRIEPPESGHPAPAPAAKPAPVPANGPLPHSPTESKPPPVDRPAEPVAPSSASAGQPRVSAATTPGTHVPHGLPQPGEHVPAQAPPATTLLGGPPVESAPATAHQPQWATTPAAPAAAPHSTPGGVHSTESGPHGRSLSAHGSEPTHDGASHGSGHGSGSEPPGLHAPHREQQLAMHSNEPAGEGWHRLSDEAVDPQYGEPLSRHWDFTDNPADRSRINPVVAQLMEDPNAPFGRDPQGQPYTQERYQERFNSVGPWGQQYSNFPPNNGAVPGTRIAYTNLEKFLSDYGPQLDRIGGDQGKYLAIMEHGRPASWEQRALHVTSLRDPYHAYTIDWLPEGWFIEVSEVAPGCGQPGGSIQVRIFDHQNEMRKVEELIRRGVLRQ |
| 880 | sp|Q61817|CREB3\_MOUSE | MDPGGQDLLALDPGDQDLLGFLLEESGDLWAATEPDVKASLDLELSPSENSVQELSDWEVEDLLSSLLSPSVSRDVLGSSSSSILHDHNYSLPQEHVSIDLGECEMISCRGRRELTGLAGSTFPFADTESFEKEGFHVTPLPGEERAAEQEMSRLILTEEEKKLLEKEGLTLPSTLPLTKVEEQVLKRVRRKIRNKRAAQESRKKKKVYVVGLESRVLKYTAQNRELQNKVQRLEEQNLSLLDQLRKLQAMVIEIANKTSSGSTCVLVLVFSFCLLLVPAMYSSDARGSVPAEYVVLHRKLRALPSEDDHQPKPSALSSELPMDSTHQSLDSSEHMFLVSSNFSCVLYHAPQAEQPLHWPLWDLSSEMLFSDSNLLLQANLSESEGWQPNHSPSLVIFQGRYSG |
| 881 | sp|O35728|CP4AE\_MOUSE | MGFFLFSPTRYLDGISGFFQWAFLLSLFLVLFKAVQFYLRRQWLLKTLQHFPCMPSHWLWGHHLKDKELQQILIWVEKFPSACLQCLSGSNIRVLLYDPDYVKVVLGRSDPKASGIYQFFAPWIGYGLLLLNGKKWFQHRRMLTPAFHYDILKPYVKIMADSVNIMLDKWEKLDGQDHPLEIFHCVSLMTLDTVMKCAFSYQGSVQLDENSKLYTKAVEDLNNLTFFRLRNAFYKYNIIYNMSSDGRLSHHACQIAHEHTDGVIKMRKSQLQNEEELQKARKKRHLDFLDILLFARMEDRNSLSDEDLRAEVDTFMFEGHDTTASGISWIFYALATHPEHQQRCREEVQSILGDGTSVTWDHLGQMPYTTMCIKEALRLYPPVISVSRELSSPVTFPDGRSIPKGITATISIYGLHHNPRFWPNPKVFDPSRFAPDSSHHSHAYLPFSGGSRNCIGKQFAMNELKVAVALTLLRFELLPDPTRIPVPIARLVLKSKNGIHLCLKKLR |
| 882 | sp|Q91WL5|CP4CA\_MOUSE | MSASALSSIRFPGSISEYLQVASVLSLLLLLFKTAQLYLHRQWLLSSTQQFPSPPSHWLFGHKILKDQDLQDILTRIKNFPSACPQWLWGSKVRIQVYDPDYMKLILGRSDPKANGSYRFLAPWIGRGLLMLDGQTWFQHRRMLTPAFHYDILKPYTEIMADSVRVMLDKWEQIVGQDSTLEIFRHITLMTLDTIMKCAFSHEGSVQLDRKYKSYIQAVEDLNDLVFSRVRNIFHQNDIIYRVSSNGCKANSACKLAHDHTDQVIKSRRIQLQDEEELEKLKKKRRLDFLDILLFARMENGKSLSDKDLRAEVDTFMFEGHDTTASGISWIFYALATNPEHQQRCRKEIQSLLGDGTSITWNDLDKMPYTTMCIKEALRIYPPVPSVSRELSSPVTFPDGRSLPKGIHVMLSFYGLHHNPTVWPNPEVFDPSRFAPGSSRHSHSFLPFSGGARNCIGKQFAMNELKVAVALTLLRFELLPDPTRVPIPIPRIVLKSKNGIHLHLKKLQ |
| 883 | sp|Q9SP02|CP20A\_ARATH | MASSVTLLLWSLLLLGTLSAIQAKKSKENLKEITHKVYFDVEIDGKAAGRIVMGLFGKTVPKTVENFRALCTGEKGIGKNGKALHYKGSSFHRIIPSFMLQGGDFTHGNGMGGESIYGEKFADENFKLKHTGPGFLSMANAGQDTNGSQFFITTVTTSWLDGRHVVFGKVVTGMDVVYKVEAEGNQSGTPKSKVVIVDSGELPL |
| 884 | sp|Q14746|COG2\_HUMAN | MEKSRMNLPKGPDTLCFDKDEFMKEDFDVDHFVSDCRKRVQLEELRDDLELYYKLLKTAMVELINKDYADFVNLSTNLVGMDKALNQLSVPLGQLREEVLSLRSSVSEGIRAVDERMSKQEDIRKKKMCVLRLIQVIRSVEKIEKILNSQSSKETSALEASSPLLTGQILERIATEFNQLQFHAVQSKGMPLLDKVRPRIAGITAMLQQSLEGLLLEGLQTSDVDIIRHCLRTYATIDKTRDAEALVGQVLVKPYIDEVIIEQFVESHPNGLQVMYNKLLEFVPHHCRLLREVTGGAISSEKGNTVPGYDFLVNSVWPQIVQGLEEKLPSLFNPGNPDAFHEKYTISMDFVRRLERQCGSQASVKRLRAHPAYHSFNKKWNLPVYFQIRFREIAGSLEAALTDVLEDAPAESPYCLLASHRTWSSLRRCWSDEMFLPLLVHRLWRLTLQILARYSVFVNELSLRPISNESPKEIKKPLVTGSKEPSITQGNTEDQGSGPSETKPVVSISRTQLVYVVADLDKLQEQLPELLEIIKPKLEMIGFKNFSSISAALEDSQSSFSACVPSLSSKIIQDLSDSCFGFLKSALEVPRLYRRTNKEVPTTASSYVDSALKPLFQLQSGHKDKLKQAIIQQWLEGTLSESTHKYYETVSDVLNSVKKMEESLKRLKQARKTTPANPVGPSGGMSDDDKIRLQLALDVEYLGEQIQKLGLQASDIKSFSALAELVAAAKDQATAEQP |
| 885 | sp|P47866|CRFR2\_RAT | MDAALLLSLLEANCSLALAEELLLDGWGEPPDPEGPYSYCNTTLDQIGTCWPQSAPGALVERPCPEYFNGIKYNTTRNAYRECLENGTWASRVNYSHCEPILDDKQRKYDLHYRIALIINYLGHCVSVVALVAAFLLFLVLRSIRCLRNVIHWNLITTFILRNITWFLLQLIDHEVHEGNEVWCRCVTTIFNYFVVTNFFWMFVEGCYLHTAIVMTYSTEHLRKWLFLFIGWCIPCPIIVAWAVGKLYYENEQCWFGKEPGDLVDYIYQGPIILVLLINFVFLFNIVRILMTKLRASTTSETIQYRKAVKATLVLLPLLGITYMLFFVNPGEDDLSQIVFIYFNSFLQSFQGFFVSVFYCFFNGEVRSALRKRWHRWQDHHALRVPVARAMSIPTSPTRISFHSIKQTAAV |
| 886 | sp|E9QY26|CP51B\_ASPFU | MGLIAFILDGICKHCSTQSTWVLVGIGLLSILAVSVIINVLQQLLFKNPHEPPVVFHWFPFIGSTISYGIDPYKFFFDCRAKYGDIFTFILLGKKTTVYLGTKGNDFILNGKLRDVCAEEVYSPLTTPVFGRHVVYDCPNAKLMEQKKFVKYGLTSDALRSYVPLITDEVESFVKNSPAFQGHKGVFDVCKTIAEITIYTASRSLQGKEVRSKFDSTFAELYHNLDMGFAPINFMLPWAPLPHNRKRDAAQRKLTETYMEIIKARRQAGSKKDSEDMVWNLMSCVYKNGTPVPDEEIAHMMIALLMAGQHSSSSTASWIVLRLATRPDIMEELYQEQIRVLGSDLPPLTYDNLQKLDLHAKVIKETLRLHAPIHSIIRAVKNPMAVDGTSYVIPTSHNVLSSPGVTARSEEHFPNPLEWNPHRWDENIAASAEDDEKVDYGYGLVSKGTNSPYLPFGAGRHRCIGEQFAYLQLGTITAVLVRLFRFRNLPGVDGIPDTDYSSLFSKPLGRSFVEFEKRESATKA |
| 887 | sp|Q59RL7|CPH2\_CANAL | MLSQYDEQLAAGDNNGFNKQGNATLYSFDFVDADDFLDSISGALPNNGHNNVNPNTNDISFEDMNIMNPNIYSPVSAASGDDFTQSSGQPMISEGSNYTGQNFTDYLSDNSLEGYDKNTSRPLHEVDIGFSNKRSNSTSTGSLSHNEEITPISHYSVDSIVTSPEPPINKQGDFPPIKRTTTVSSTNSITNTTKKPAKVTKPKSKDKNSHNMIEKKYRTNINTKILALRDAVPALRIAAGCDDVSIADLEGLTPASKLNKASVLTKATEYIKHLESKNFILKQQNIELHRLIQHANMNPKSLPPPPQQMQAPPQPGFGFYPPQNQSFNVTPASQYPSPQQQVSPTQQQTVHHPPQPNRYLLGGMAAVMGTSLFGGSGENDFRSLSALPFSYLFPNAILNPSPLTIQLWTLTKVLLVVGSLASIFIPMYKQAQLKKEDKPNTIPETSLLDWILISIGFKTPAKLSVSKRDAIISNLQGGNDWSQLVSDYFYLAGCEINFENCFLSLVLGTIIRHRFPVVATILNHYLSMKEALLLNLDYKGFSKSLIRLNQLISKVDGVSIFESTNLTTRLTNVFTNNRINANIVDGQNHVKYIEFYQRNINDYYAIVFNWRLLEFIHELNVTYLEQLNDDQSQVLTDLKIIEAFFGEQDNKLFGYYQLFTSILNANYAPYLFESLKDKVESSLEKFRIAYEGIDLTDHEIHNTSSEDEYEQESPVVYKYEPTLKSQKSLISSLNLVNEEEFIILTCSLTIYYYKNKEYDRALKLLNYLRLDNDSKTLSLLTFTSLITLINELIPGKIEDNVNLDSAIRICRDWLENPDLTQYMDEDIKLELKKIVVTKGMIVNGIDVNESDEE |
| 888 | sp|Q42406|CP18D\_ARATH | MSNPRVFFDMSLSGTPIGRIEMELFADTTPNTAENFRALCTGEKGMGKLGKPLHFKGSIFHRVIPGFMCQGGDFTAKNGTGGESIYGAKFKDENFIKKHTGAGILSMANSGPNTNGSQFFICTDKTSWLDGKHVVFGQVVKGLDVVKAIEKVGSDSGKTSKVVTITDCGQLS |
| 889 | sp|Q55080|CP119\_SULAC | MYDWFSEMRKKDPVYYDGNIWQVFSYRYTKEVLNNFSKFSSDLTGYHERLEDLRNGKIRFDIPTRYTMLTSDPPLHDELRSMSADIFSPQKLQTLETFIRETTRSLLDSIDPREDDIVKKLAVPLPIIVISKILGLPIEDKEKFKEWSDLVAFRLGKPGEIFELGKKYLELIGYVKDHLNSGTEVVSRVVNSNLSDIEKLGYIILLLIAGNETTTNLISNSVIDFTRFNLWQRIREENLYLKAIEEALRYSPPVMRTVRKTKERVKLGDQTIEEGEYVRVWIASANRDEEVFHDGEKFIPDRNPNPHLSFGSGIHLCLGAPLARLEARIAIEEFSKRFRHIEILDTEKVPNEVLNGYKRLVVRLKSNE |
| 890 | sp|Q9Y281|COF2\_HUMAN | MASGVTVNDEVIKVFNDMKVRKSSTQEEIKKRKKAVLFCLSDDKRQIIVEEAKQILVGDIGDTVEDPYTSFVKLLPLNDCRYALYDATYETKESKKEDLVFIFWAPESAPLKSKMIYASSKDAIKKKFTGIKHEWQVNGLDDIKDRSTLGEKLGGNVVVSLEGKPL |
| 891 | sp|Q9VCR3|COW\_DROME | MKHSPLIASACLALVLMSSSLIGSTEARNKKKYVGETGGDFEFIDEINKNTQSNKNLGEHKRWIHDPSSDLCRPLNCKKREICLLEDEFSAVCVSKKELHKNRDEIITKAKYLEEEAKRRVNQQDNQDSQDAEDINNDDEDNSSDGGSSNSSPTGTNNAQASVQGNEETDDEDKSLSLGDDDESKEDDVFYENSIAAGDKQQQQQQLSQPAAGPSVIQQDDDEELDNCKPCPVAKPTFLCGADNRTYSSLCRLDYHNCIHSTSIRIACKGFCPCKEIVDGKRLQRISGYNNKYNKKISLDQQQQQQQQQQQQQQQQQAYKDSNNNNIMMNSGNIMGGNNNDFNTIMNDKEDNNRHNNHINAQYTFTPEEIKYDNKHYKYLKYTAYKKDSKYQEDKHKMRNYNEVVEKQQQKFNKNSNLNAYPSKSAECKPQQLTAIGNRLLDWFSVIMADSKKRRQHSQKSKAHFPPACKTEAKWMFGHLDLNNDGQLSLQEMYDLEHDQNERCIKPFIDTCDLDTDSSINTREWCRCFEKTDRPCAAVRRRIAGDFAGAYAPDCDIQGFYKPTQCHNSVGVCWCVDKHGVEFANTRTRGKPNCESVVNNAASLTSDDEDEGADDEDSAEGSADQMLVF |
| 892 | sp|Q91ZN1|COR1A\_RAT | MSRQVVRSSKFRHVFGQPAKADQCYEDVRVSQTTWDSGFCAVNPKFMALICEASGGGAFLVLPLGKTGRVDKNVPLVCGHTAPVLDIAWCPHNDNVIASGSEDCTVMVWEIPDGGLVLPLREPVVTLEGHTKRVGIVAWHPTAQNVLLSAGCDNVILVWDVGTGAAVLTLGPDVHPDTIYSVDWSRDGALICTSCRDKRVRVIEPRKGTVVAEKERPHEGTRPVHAVFVSEGKILTTGFSRMSERQVALWDTKHLEEPLSLQELDTSSGVLLPFFDPDTNIVYLCGKGDSSIRYFEITSEAPFLHYLSMFSSKESQRGMGYMPKRGLEVNKCEIARFYKLHERKCEPIAMTVPRKSDLFQEDLYPPTAGPDPALTAEEWLSGRDAGPLLISLKDGYVPPKSRELRVNRGLDSARRRATPEPSSTLSSDTVSRLEEDVRNLNAIVQKLQERLDRLEETVQAK |
| 893 | sp|O75881|CP7B1\_HUMAN | MAGEVSAATGRFSLERLGLPGLALAAALLLLALCLLVRRTRRPGEPPLIKGWLPYLGVVLNLRKDPLRFMKTLQKQHGDTFTVLLGGKYITFILDPFQYQLVIKNHKQLSFRVFSNKLLEKAFSISQLQKNHDMNDELHLCYQFLQGKSLDILLESMMQNLKQVFEPQLLKTTSWDTAELYPFCSSIIFEITFTTIYGKVIVCDNNKFISELRDDFLKFDDKFAYLVSNIPIELLGNVKSIREKIIKCFSSEKLAKMQGWSEVFQSRQDVLEKYYVHEDLEIGAHHLGFLWASVANTIPTMFWAMYYLLRHPEAMAAVRDEIDRLLQSTGQKKGSGFPIHLTREQLDSLICLESSIFEALRLSSYSTTIRFVEEDLTLSSETGDYCVRKGDLVAIFPPVLHGDPEIFEAPEEFRYDRFIEDGKKKTTFFKRGKKLKCYLMPFGTGTSKCPGRFFALMEIKQLLVILLTYFDLEIIDDKPIGLNYSRLLFGIQYPDSDVLFRYKVKS |
| 894 | sp|P27786|CP17A\_MOUSE | MWELVGLLLLILAYFFWPKSKTPNAKFPRSLPFLPLVGSLPFLPRRGHMHANFFKLQEKYGPIYSLRLGTTTAVIVGHYQLAREVLVKKGKEFSGRPQMVTLGLLSDQGKGVAFADSSSSWQLHRKLVFSTFSLFRDDQKLEKMICQEANSLCDLILTYDGESRDLSTLIFKSVINIICTICFNISFENKDPILTTIQTFTEGIVDVLGHSDLVDIFPWLKIFPNKNLEMIKEHTKIREKTLVEMFEKCKEKFNSESLSSLTDILIQAKMNAENNNTGEGQDPSVFSDKHILVTVGDIFGAGIETTSSVLNWILAFLVHNPEVKRKIQKEIDQYVGFSRTPSFNDRTHLLMLEATIREVLRIRPVAPLLIPHKANIDSSIGEFAIPKDTHVIINLWALHHDKNEWDQPDRFMPERFLDPTGSHLITPTPSYLPFGAGPRSCIGEALARQELFIFMALLLQRFDFDVSDDKQLPCLVGDPKVVFLIDPFKVKITVRQAWKDAQVEVST |
| 895 | sp|P0C279|CPEB1\_RAT | MAFSLEEESGRIKDCWDNQEVPALSTCSNANIFRRINAILDDSLDFSKVCTTPINRGIHDQLPDFQDSEEAITSRMLFPTSAQESPRGLPDANGLCLGLQSLSLTGWDRPWSTQDSDSSAQSNTQSVLSMLQNPLGNVLGKTPLSFLSLDPLGSDLDKFPAPSVRGSRLDTRPILDSRSSSPSDSDTSGFSSGSDHLSDLISSLRISPPLPFLSMTGNGPRDPLKMGVGSRMDQEQAALAAVAPSPTSAPKRWPGTSVWPSWDLLGAPKDPFSIEREARLHRQAAAVNEATCTWSGQLPPRNYKNPIYSCKVFLGGVPWDITEAGLVNTFRVFGSLSVEWPGKDGKHPRCPPKGNMPKGYVYLVFELEKSVRALLQACSHDPLSPDGLSEYYFKMSSRRMRCKEVQVIPWVLADSNFVWSPSQRLDPSRTVFVGALHGMLNAEALAAILNDLFGGVVYAGIDTDKHKYPIGSGRVTFNNQRSYLKAVTAAFVEIKTTKFTKKVQIDPYLEDSLCLICSSQPGPFFCRDQVCFKYFCRSCWHWRHSMEGLRHHSPLMRNQKN |
| 896 | sp|Q04836|CP31A\_ARATH | MASSIVTSSLKPLAMADSSSSTIFSHPSISSTISSSRIRSSSVSLLTGRINLPLSFSRVSLSLKTKTHLKKSPFVSFVAQTSDWAEEGGEGSVAVEETENSLESQDVSEGDESEGDASEGDVSEGDESEGDVSEGAVSERAEFPEPSEEAKLFVGNLAYDVNSQALAMLFEQAGTVEIAEVIYNRETDQSRGFGFVTMSSVDEAETAVEKFNRYDLNGRLLTVNKAAPRGSRPERAPRVYEPAFRVYVGNLPWDVDNGRLEQLFSEHGKVVEARVVYDRETGRSRGFGFVTMSDVDELNEAISALDGQNLEGRAIRVNVAEERPPRRGY |
| 897 | sp|P50416|CPT1A\_HUMAN | MAEAHQAVAFQFTVTPDGIDLRLSHEALRQIYLSGLHSWKKKFIRFKNGIITGVYPASPSSWLIVVVGVMTTMYAKIDPSLGIIAKINRTLETANCMSSQTKNVVSGVLFGTGLWVALIVTMRYSLKVLLSYHGWMFTEHGKMSRATKIWMGMVKIFSGRKPMLYSFQTSLPRLPVPAVKDTVNRYLQSVRPLMKEEDFKRMTALAQDFAVGLGPRLQWYLKLKSWWATNYVSDWWEEYIYLRGRGPLMVNSNYYAMDLLYILPTHIQAARAGNAIHAILLYRRKLDREEIKPIRLLGSTIPLCSAQWERMFNTSRIPGEETDTIQHMRDSKHIVVYHRGRYFKVWLYHDGRLLKPREMEQQMQRILDNTSEPQPGEARLAALTAGDRVPWARCRQAYFGRGKNKQSLDAVEKAAFFVTLDETEEGYRSEDPDTSMDSYAKSLLHGRCYDRWFDKSFTFVVFKNGKMGLNAEHSWADAPIVAHLWEYVMSIDSLQLGYAEDGHCKGDINPNIPYPTRLQWDIPGECQEVIETSLNTANLLANDVDFHSFPFVAFGKGIIKKCRTSPDAFVQLALQLAHYKDMGKFCLTYEASMTRLFREGRTETVRSCTTESCDFVRAMVDPAQTVEQRLKLFKLASEKHQHMYRLAMTGSGIDRHLFCLYVVSKYLAVESPFLKEVLSEPWRLSTSQTPQQQVELFDLENNPEYVSSGGGFGPVADDGYGVSYILVGENLINFHISSKFSCPETDSHRFGRHLKEAMTDIITLFGLSSNSKK |
| 898 | sp|Q3TCH7|CUL4A\_MOUSE | MADEGPRKGSVSALMGRTNGLTKPAALAGGPAKPGGTGGSRKLVIKNFRDRPRLPDNYTQDTWRKLHEAVKAIQSSTSIRYNLEELYQAVENLCSHKVSPTLYKQLRQVCEDHVQAQILPFREDSLDSVLFLKKINTCWQDHCRQMIMIRSIFLFLDRTYVLQNSMLPSIWDMGLELFRNHIISDRMVQSKTIDGILLLIGRERSGEAVDRSLLRSLLSMLSDLQVYKDSFELKFLEETNCLYAAEGQRLMQDREVPEYLNHVSKRLEEEADRVITYLDHSTQKPLIACVEKQLLGEHLTAILQKGLEHLLDENRVPDLTQMYQLFSRVKGGQHALLQHWSEYIKTFGTTIVINPEKDKDMVQDLLDFKDKVDHVVEVCFQRNERFINLMKESFETFINKRPNKPAELIAKHVDSKLRAGNKEATDEELERILDKIMILFRFIHGKDVFEAFYKKDLAKRLLVGKSASVDAEKSMLSKLKHECGAAFTSKLEGMFKDMELSKDIMVHFKQHMQNQSAPGPIDLTVNILTMGYWPTYTPMEVHLPPEMVRLQEVFKTFYLGKHSGRKLQWQTTLGHAVLKADFKEGKKEFQVSLFQTLVLLMFNEGDGFSFEEIKMATGIEDSELRRTLQSLACGKARVLIKSPKGKEVEDGDKFIFNADFKHKLFRIKINQIQMKETVEEQVSTTERVFQDRQYQIDAAIVRIMKMRKTLGHNLLVSELYNQLKFPVKPGDLKKRIESLIDRDYMERDKDSPNQYHYVA |
| 899 | sp|Q8NI51|CTCFL\_HUMAN | MAATEISVLSEQFTKIKELELMPEKGLKEEEKDGVCREKDHRSPSELEAERTSGAFQDSVLEEEVELVLAPSEESEKYILTLQTVHFTSEAVELQDMSLLSIQQQEGVQVVVQQPGPGLLWLEEGPRQSLQQCVAISIQQELYSPQEMEVLQFHALEENVMVASEDSKLAVSLAETTGLIKLEEEQEKNQLLAERTKEQLFFVETMSGDERSDEIVLTVSNSNVEEQEDQPTAGQADAEKAKSTKNQRKTKGAKGTFHCDVCMFTSSRMSSFNRHMKTHTSEKPHLCHLCLKTFRTVTLLRNHVNTHTGTRPYKCNDCNMAFVTSGELVRHRRYKHTHEKPFKCSMCKYASVEASKLKRHVRSHTGERPFQCCQCSYASRDTYKLKRHMRTHSGEKPYECHICHTRFTQSGTMKIHILQKHGENVPKYQCPHCATIIARKSDLRVHMRNLHAYSAAELKCRYCSAVFHERYALIQHQKTHKNEKRFKCKHCSYACKQERHMTAHIRTHTGEKPFTCLSCNKCFRQKQLLNAHFRKYHDANFIPTVYKCSKCGKGFSRWINLHRHSEKCGSGEAKSAASGKGRRTRKRKQTILKEATKGQKEAAKGWKEAANGDEAAAEEASTTKGEQFPGEMFPVACRETTARVKEEVDEGVTCEMLLNTMDK |
| 900 | sp|Q5TAT6|CODA1\_HUMAN | MVAERTHKAAATGARGPGELGAPGTVALVAARAERGARLPSPGSCGLLTLALCSLALSLLAHFRTAELQARVLRLEAERGEQQMETAILGRVNQLLDEKWKLHSRRRREAPKTSPGCNCPPGPPGPTGRPGLPGDKGAIGMPGRVGSPGDAGLSIIGPRGPPGQPGTRGFPGFPGPIGLDGKPGHPGPKGDMGLTGPPGQPGPQGQKGEKGQCGEYPHRECLSSMPAALRSSQIIALKLLPLLNSVRLAPPPVIKRRTFQGEQSQASIQGPPGPPGPPGPSGPLGHPGLPGPMGPPGLPGPPGPKGDPGIQGYHGRKGERGMPGMPGKHGAKGAPGIAVAGMKGEPGIPGTKGEKGAEGSPGLPGLLGQKGEKGDAGNSIGGGRGEPGPPGLPGPPGPKGEAGVDGQVGPPGQPGDKGERGAAGEQGPDGPKGSKGEPGKGEMVDYNGNINEALQEIRTLALMGPPGLPGQIGPPGAPGIPGQKGEIGLPGPPGHDGEKGPRGKPGDMGPPGPQGPPGKDGPPGVKGENGHPGSPGEKGEKGETGQAGSPGEKGEAGEKGNPGAEVPGLPGPEGPPGPPGLQGVPGPKGEAGLDGAKGEKGFQGEKGDRGPLGLPGASGLDGRPGPPGTPGPIGVPGPAGPKGERGSKGDPGMTGPTGAAGLPGLHGPPGDKGNRGERGKKGSRGPKGDKGDQGAPGLDAPCPLGEDGLPVQGCWNK |
| 901 | sp|Q10651|A4\_CAEEL | MTVGKLMIGLLIPILVATVYAEGSPAGSKRHEKFIPMVAFSCGYRNQYMTEEGSWKTDDERYATCFSGKLDILKYCRKAYPSMNITNIVEYSHEVSISDWCREEGSPCKWTHSVRPYHCIDGEFHSEALQVPHDCQFSHVNSRDQCNDYQHWKDEAGKQCKTKKSKGNKDMIVRSFAVLEPCALDMFTGVEFVCCPNDQTNKTDVQKTKEDEDDDDDEDDAYEDDYSEESDEKDEEEPSSQDPYFKIANWTNEHDDFKKAEMRMDEKHRKKVDKVMKEWGDLETRYNEQKAKDPKGAEKFKSQMNARFQKTVSSLEEEHKRMRKEIEAVHEERVQAMLNEKKRDATHDYRQALATHVNKPNKHSVLQSLKAYIRAEEKDRMHTLNRYRHLLKADSKEAAAYKPTVIHRLRYIDLRINGTLAMLRDFPDLEKYVRPIAVTYWKDYRDEVSPDISVEDSELTPIIHDDEFSKNAKLDVKAPTTTAKPVKETDNAKVLPTEASDSEEEADEYYEDEDDEQVKKTPDMKKKVKVVDIKPKEIKVTIEEEKKAPKLVETSVQTDDEDDDEDSSSSTSSESDEDEDKNIKELRVDIEPIIDEPASFYRHDKLIQSPEVERSASSVFQPYVLASAMFITAICIIAFAITNARRRRAMRGFIEVDVYTPEERHVAGMQVNGYENPTYSFFDSKA |
| 902 | sp|Q5RFN1|ACE2\_PONAB | MSGSSWLLLSLVAVTAAQSTIEEQAKTFLDKFNHEAEDLFYQSSLASWNYNTNITEENVQNMNNAGDKWSAFLKEQSTLAQMYPLQEIQNLTVKLQLQALQQNGSSVLSEDKSKRLNTILNTMSTIYSTGKVCNPNNPQECLLLEPGLNEIMANSLDYNERLWAWESWRSEVGKQLRPLYEEYVVLKNEMARANHYEDYGDYWRGDYEVNGVDSYDYSRGQLIEDVEHTFEEIKPLYEHLHAYVRAKLINAYPSYISPIGCLPAHLLGDMWGRFWTNLYSLTVPFGQKPNIDVTDAMVDQAWDAQRIFKEAEKFFVSVGLPNMTQRFWENSMLTDPGNVQKVVCHPTAWDLGKGDFRILMCTKVTMDDFLTAHHEMGHIQYDMAYAAQPFLLRNGANEGFHEAVGEIMSLSAATPKHLKSIGLLSPDFQEDNETEINFLLKQALTIVGTLPFTYMLEKWRWMVFKGEIPKDQWMKKWWEMKREIVGVVEPVPHDETYCDPASLFHVSNDYSFIRYYTRTLYQFQFQEALCQAAKHEGPLHKCDISNSTEAGQKLLNMLRLGKSEPWTLALENVVGAKNMNVRPLLDYFEPLFTWLKDQNKNSFVGWSTDWSPYADQSIKVRISLKSALGNKAYEWNDNEIYLFRSSVAYAMRKYFLEVKNQMILFGEEDVRVANLKPRISFNFFVTAPKNVSDIIPRTEVEKAIRMSRSRINDAFRLNDNSLEFLGIQPTLGPPNQPPVSIWLIVFGVVMGVIVVGIVVLIFTGIRDRKKKNKARNEENPYASIDISKGENNPGFQNTDDVQTSF |
| 903 | sp|Q54I71|AARA\_DICDI | MNDCGSLFNKKLFKMNLLFKHLKLQQHLKLQQKPLLNNSSINNNINNNNNNNNNNNSNNDSNNTNTNIFNNSFLNSDLIERLIIKFTIGYLKNNITEDYIEQILLENQNNFIKSTTTSNYILEENNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNSSSSSSSILSKFNKLEEDNELELQKKQKQQLEQQEEELFNQFNFLEGIEDQNDFLSEQETIQKIKFLIKMTAKSMSNYSSPNTLIPSVSKTYISPFGLSSNGSTNNHNNNNNNNHHHHSNNGNLIESSNNVNNQLNVSNYNNNNSNHYDENNQFDIFLIPTEMLVHLLSFLSANDLWRISLTCKRIWYIVDVFKFWELLFEQTCPRIYYAMQFNSRWSNPTSFQSKMILCYIDRLPTDNYKNFDKSDESGQIKKIIGVMNENLHNPMILRETCYILKRLSYRQRKEDEHESLIARYGGISLILQAMKNHPYDAGVQEDACGALGNLTCDSPNNMGLYSNDNYLSVVEQGGIQLILQAMKNHMMNPGVQYNTSFVLRNLARNDVSESRVAIEGGIQSIATAMKNHPNHIGIQTQGCGALRNLGCNDSNKVLSAKEGGIGLILRAMRSFSSHPDLQLNGCGALRNLARNEDNKNMISRQNGIQLVLGAMSNHPDDPDVQDEGCAALINLAYQDEANEETIAREGGINLILKAMRNHPFHSGVQMQGRGALKNLSCNPKNKLTIARSGGIELMNIAMQNHPNFANRFLELSRILQVALEDGNI |
| 904 | sp|P08503|ACADM\_RAT | MAAALRRGYKVLRSVSHFECRAQHTKPSLKQEPGLGFSFELTEQQKEFQTIARKFAREEIIPVAPDYDKSGEYPFPLIKRAWELGLINTHIPESCGGLGLGTFDACLITEELAYGCTGVQTAIEANSLGQMPVIIAGNDQQKKKYLGRMTEQPMMCAYCVTEPSAGSDVAGIKTKAEKKGDEYVINGQKMWITNGGKANWYFVLTRSNPDPKVPASKAFTGFIVEADTPGIHIGKKELNMGQRCSDTRGITFEDVRVPKENVLIGEGAGFKIAMGAFDRTRPTVAAGAVGLAQRALDEATKYALDRKTFGKLLVEHQGVSFLLAEMAMKVELARLSYQRAAWEVDSGRRNTYFASIAKAFAGDIANQLATDAVQIFGGYGFNTEYPVEKLMRDAKIYQIYEGTAQIQRLIIAREHIEKYKN |
| 905 | sp|P15650|ACADL\_RAT | MAARLLLRSLRVLSARSATLPPPSARCSHSGAEARLETPSAKKLTDIGIRRIFSSEHDIFRESVRKFFQEEVIPYHEEWEKAGEVSRELWEKAGKQGLLGINIAEKHGGIGGDLLSTAVTWEEQAYSNCTGPGFSLHSDIVMPYIANYGTKEQIEQFIPQMTAGKCIGAIAMTEPGAGSDLQGVRTNAKRSGSDWILNGSKVFITNGWLSDLVIVVAVTNREARSPAHGISLFLVENGMKGFIKGKKLHKMGMKAQDTAELFFEDVRLPASALLGEENKGFYYLMQELPQERLLIADLAISACEFMFEETRNYVRQRKAFGKTVAHIQTVQHKLAELKTNICVTRAFVDSCLQLHETKRLDSASASMAKYWASELQNTVAYQCVQLHGGWGYMWEYPIAKAYVDARVQPIYGGTNEIMKELIARQIVSDS |
| 906 | sp|Q9S725|4CL2\_ARATH | MTTQDVIVNDQNDQKQCSNDVIFRSRLPDIYIPNHLPLHDYIFENISEFAAKPCLINGPTGEVYTYADVHVTSRKLAAGLHNLGVKQHDVVMILLPNSPEVVLTFLAASFIGAITTSANPFFTPAEISKQAKASAAKLIVTQSRYVDKIKNLQNDGVLIVTTDSDAIPENCLRFSELTQSEEPRVDSIPEKISPEDVVALPFSSGTTGLPKGVMLTHKGLVTSVAQQVDGENPNLYFNRDDVILCVLPMFHIYALNSIMLCSLRVGATILIMPKFEITLLLEQIQRCKVTVAMVVPPIVLAIAKSPETEKYDLSSVRMVKSGAAPLGKELEDAISAKFPNAKLGQGYGMTEAGPVLAMSLGFAKEPFPVKSGACGTVVRNAEMKILDPDTGDSLPRNKPGEICIRGNQIMKGYLNDPLATASTIDKDGWLHTGDVGFIDDDDELFIVDRLKELIKYKGFQVAPAELESLLIGHPEINDVAVVAMKEEDAGEVPVAFVVRSKDSNISEDEIKQFVSKQVVFYKRINKVFFTDSIPKAPSGKILRKDLRARLANGLMN |
| 907 | sp|O60218|AK1BA\_HUMAN | MATFVELSTKAKMPIVGLGTWKSPLGKVKEAVKVAIDAGYRHIDCAYVYQNEHEVGEAIQEKIQEKAVKREDLFIVSKLWPTFFERPLVRKAFEKTLKDLKLSYLDVYLIHWPQGFKSGDDLFPKDDKGNAIGGKATFLDAWEAMEELVDEGLVKALGVSNFSHFQIEKLLNKPGLKYKPVTNQVECHPYLTQEKLIQYCHSKGITVTAYSPLGSPDRPWAKPEDPSLLEDPKIKEIAAKHKKTAAQVLIRFHIQRNVIVIPKSVTPARIVENIQVFDFKLSDEEMATILSFNRNWRACNVLQSSHLEDYPFNAEY |
| 908 | sp|Q8WU67|ABHD3\_HUMAN | MQRLAMDLRMLSRELSLYLEHQVRVGFFGSGVGLSLILGFSVAYAFYYLSSIAKKPQLVTGGESFSRFLQDHCPVVTETYYPTVWCWEGRGQTLLRPFITSKPPVQYRNELIKTADGGQISLDWFDNDNSTCYMDASTRPTILLLPGLTGTSKESYILHMIHLSEELGYRCVVFNNRGVAGENLLTPRTYCCANTEDLETVIHHVHSLYPSAPFLAAGVSMGGMLLLNYLGKIGSKTPLMAAATFSVGWNTFACSESLEKPLNWLLFNYYLTTCLQSSVNKHRHMFVKQVDMDHVMKAKSIREFDKRFTSVMFGYQTIDDYYTDASPSPRLKSVGIPVLCLNSVDDVFSPSHAIPIETAKQNPNVALVLTSYGGHIGFLEGIWPRQSTYMDRVFKQFVQAMVEHGHELS |
| 909 | sp|Q9ULW3|ABT1\_HUMAN | MEAEESEKAATEQEPLEGTEQTLDAEEEQEESEEAACGSKKRVVPGIVYLGHIPPRFRPLHVRNLLSAYGEVGRVFFQAEDRFVRRKKKAAAAAGGKKRSYTKDYTEGWVEFRDKRIAKRVAASLHNTPMGARRRSPFRYDLWNLKYLHRFTWSHLSEHLAFERQVRRQRLRAEVAQAKRETDFYLQSVERGQRFLAADGDPARPDGSWTFAQRPTEQELRARKAARPGGRERARLATAQDKARSNKGLLARIFGAPPPSESMEGPSLVRDS |
| 910 | sp|P54646|AAPK2\_HUMAN | MAEKQKHDGRVKIGHYVLGDTLGVGTFGKVKIGEHQLTGHKVAVKILNRQKIRSLDVVGKIKREIQNLKLFRHPHIIKLYQVISTPTDFFMVMEYVSGGELFDYICKHGRVEEMEARRLFQQILSAVDYCHRHMVVHRDLKPENVLLDAHMNAKIADFGLSNMMSDGEFLRTSCGSPNYAAPEVISGRLYAGPEVDIWSCGVILYALLCGTLPFDDEHVPTLFKKIRGGVFYIPEYLNRSVATLLMHMLQVDPLKRATIKDIREHEWFKQDLPSYLFPEDPSYDANVIDDEAVKEVCEKFECTESEVMNSLYSGDPQDQLAVAYHLIIDNRRIMNQASEFYLASSPPSGSFMDDSAMHIPPGLKPHPERMPPLIADSPKARCPLDALNTTKPKSLAVKKAKWHLGIRSQSKPYDIMAEVYRAMKQLDFEWKVVNAYHLRVRRKNPVTGNYVKMSLQLYLVDNRSYLLDFKSIDDEVVEQRSGSSTPQRSCSAAGLHRPRSSFDSTTAESHSLSGSLTGSLTGSTLSSVSPRLGSHTMDFFEMCASLITTLAR |
| 911 | sp|Q5FVE4|ACBG2\_HUMAN | MTGTPKTQEGAKDLEVDMNKTEVTPRLWTTCRDGEVLLRLSKHGPGHETPMTIPEFFRESVNRFGTYPALASKNGKKWEILNFNQYYEACRKAAKSLIKLGLERFHGVGILGFNSAEWFITAVGAILAGGLCVGIYATNSAEVCQYVITHAKVNILLVENDQQLQKILSIPQSSLEPLKAIIQYRLPMKKNNNLYSWDDFMELGRSIPDTQLEQVIESQKANQCAVLIYTSGTTGIPKGVMLSHDNITWIAGAVTKDFKLTDKHETVVSYLPLSHIAAQMMDIWVPIKIGALTYFAQADALKGTLVSTLKEVKPTVFIGVPQIWEKIHEMVKKNSAKSMGLKKKAFVWARNIGFKVNSKKMLGKYNTPVSYRMAKTLVFSKVKTSLGLDHCHSFISGTAPLNQETAEFFLSLDIPIGELYGLSESSGPHTISNQNNYRLLSCGKILTGCKNMLFQQNKDGIGEICLWGRHIFMGYLESETETTEAIDDEGWLHSGDLGQLDGLGFLYVTGHIKEILITAGGENVPPIPVETLVKKKIPIISNAMLVGDKLKFLSMLLTLKCEMNQMSGEPLDKLNFEAINFCRGLGSQASTVTEIVKQQDPLVYKAIQQGINAVNQEAMNNAQRIEKWVILEKDFSIYGGELGPMMKLKRHFVAQKYKKQIDHMYH |
| 912 | sp|P24182|ACCC\_ECOLI | MLDKIVIANRGEIALRILRACKELGIKTVAVHSSADRDLKHVLLADETVCIGPAPSVKSYLNIPAIISAAEITGAVAIHPGYGFLSENANFAEQVERSGFIFIGPKAETIRLMGDKVSAIAAMKKAGVPCVPGSDGPLGDDMDKNRAIAKRIGYPVIIKASGGGGGRGMRVVRGDAELAQSISMTRAEAKAAFSNDMVYMEKYLENPRHVEIQVLADGQGNAIYLAERDCSMQRRHQKVVEEAPAPGITPELRRYIGERCAKACVDIGYRGAGTFEFLFENGEFYFIEMNTRIQVEHPVTEMITGVDLIKEQLRIAAGQPLSIKQEEVHVRGHAVECRINAEDPNTFLPSPGKITRFHAPGGFGVRWESHIYAGYTVPPYYDSMIGKLICYGENRDVAIARMKNALQELIIDGIKTNVDLQIRIMNDENFQHGGTNIHYLEKKLGLQEK |
| 913 | sp|P37172|ACVR1\_MOUSE | MVDGVMILPVLMMMAFPSPSVEDEKPKVNQKLYMCVCEGLSCGNEDHCEGQQCFSSLSINDGFHVYQKGCFQVYEQGKMTCKTPPSPGQAVECCQGDWCNRNITAQLPTKGKSFPGTQNFHLEVGLIILSVVFAVCLLACILGVALRKFKRRNQERLNPRDVEYGTIEGLITTNVGDSTLAELLDHSCTSGSGSGLPFLVQRTVARQITLLECVGKGRYGEVWRGSWQGENVAVKIFSSRDEKSWFRETELYNTVMLRHENILGFIASDMTSRHSSTQLWLITHYHEMGSLYDYLQLTTLDTVSCLRIVLSIASGLAHLHIEIFGTQGKSAIAHRDLKSKNILVKKNGQCCIADLGLAVMHSQSTNQLDVGNNPRVGTKRYMAPEVLDETIQVDCFDSYKRVDIWAFGLVLWEVARRMVSNGIVEDYKPPFYDVVPNDPSFEDMRKVVCVDQQRPNIPNRWFSDPTLTSLAKLMKECWYQNPSARLTALRIKKTLTKIDNSLDKLKTDC |
| 914 | sp|P28334|5HT1B\_MOUSE | MEEQGIQCAPPPPAASQTGVPLTNLSHNCSADGYIYQDSIALPWKVLLVALLALITLATTLSNAFVIATVYRTRKLHTPANYLIASLAVTDLLVSILVMPISTMYTVTGRWTLGQVVCDFWLSSDITCCTASIMHLCVIALDRYWAITDAVEYSAKRTPKRAAIMIVLVWVFSISISLPPFFWRQAKAEEEMLDCFVNTDHVLYTVYSTVGAFYLPTLLLIALYGRIYVEARSRILKQTPNKTGKRLTRAQLITDSPGSTSSVTSINSRAPDVPSESGSPVYVNQVKVRVSDALLEKKKLMAARERKATKTLGIILGAFIVCWLPFFIISLVMPICKDACWFHMAIFDFFNWLGYLNSLINPIIYTMSNEDFKQAFHKLIRFKCAG |
| 915 | sp|P35858|ALS\_HUMAN | MALRKGGLALALLLLSWVALGPRSLEGADPGTPGEAEGPACPAACVCSYDDDADELSVFCSSRNLTRLPDGVPGGTQALWLDGNNLSSVPPAAFQNLSSLGFLNLQGGQLGSLEPQALLGLENLCHLHLERNQLRSLALGTFAHTPALASLGLSNNRLSRLEDGLFEGLGSLWDLNLGWNSLAVLPDAAFRGLGSLRELVLAGNRLAYLQPALFSGLAELRELDLSRNALRAIKANVFVQLPRLQKLYLDRNLIAAVAPGAFLGLKALRWLDLSHNRVAGLLEDTFPGLLGLRVLRLSHNAIASLRPRTFKDLHFLEELQLGHNRIRQLAERSFEGLGQLEVLTLDHNQLQEVKAGAFLGLTNVAVMNLSGNCLRNLPEQVFRGLGKLHSLHLEGSCLGRIRPHTFTGLSGLRRLFLKDNGLVGIEEQSLWGLAELLELDLTSNQLTHLPHRLFQGLGKLEYLLLSRNRLAELPADALGPLQRAFWLDVSHNRLEALPNSLLAPLGRLRYLSLRNNSLRTFTPQPPGLERLWLEGNPWDCGCPLKALRDFALQNPSAVPRFVQAICEGDDCQPPAYTYNNITCASPPEVVGLDLRDLSEAHFAPC |
| 916 | sp|P30839|AL3A2\_RAT | MERQVQRLRQTFRSGRSRPLRFRLQQLEALRRMVQEREKDILAAIAADLSKSELNAYSHEVITILGEIDFMLGNLPELASARPAKKNLLTMMDEAYVQPEPLGVVLIIGAWNYPFVLTLQPLVGAIAAGNAAIVKPSELSENTAKILAELLPQYLDQDLYMIVNGGVEETTELLRQRFDHILYTGNTAVGKIVMEAAAKHLTPVTLELGGKSPCYIDRDCDLDVACRRITWGKYMNCGQTCIAPDYILCEASSQDQIVQKIKDTVKDFYGENVKASPDYERIINLRHFKRIKSLLEGQKIAFGGETDEATRYIAPTILTDVDPNSKVMQEEIFGPILPIVSVKNVEEAINFINDREKPLALYIFSHNNKLIKRVIDETSSGGVTGNDVIMHFTVNSLPFGGVGASGMGAYHGKYSFDTFSHQRPCLLKGLKGESVNKLRYPPNSESKVSWSKFFLLKQFNKGRLQLLLLVCLVAVAAVIVKDQL |
| 917 | sp|Q5CZR5|AEP1\_DANRE | MTYPTNLEIIGGQGGSSFSFTGENNGASLEKIWVWVGGWQIKAVRAWLSDGRDETFGVPSGSHQEYVFTPGECFTSLSLWGNGAGTRLGAIKFKTNKGGEFFAHMTSWGLKTEYPMDVGSGYCLGIVGRGGSDIDCMGFMFLNAVQSTVLTNVNYPTINQLIPKVATEEIKSVSFENKTSVKQEQKVETSKKVIKTSSWSMTKSFSSTFSVEVSAGIPEIAEVSTGFSISFGVESTHSLEQTDEKNETLTTTVEVPPKKKVDVHITIGRASFDLPYTGTVKITCKNGSVLQYETKGQYKGVAYTDIKVNTVEKDL |
| 918 | sp|O60706|ABCC9\_HUMAN | MSLSFCGNNISSYNINDGVLQNSCFVDALNLVPHVFLLFITFPILFIGWGSQSSKVQIHHNTWLHFPGHNLRWILTFALLFVHVCEIAEGIVSDSRRESRHLHLFMPAVMGFVATTTSIVYYHNIETSNFPKLLLALFLYWVMAFITKTIKLVKYCQSGLDISNLRFCITGMMVILNGLLMAVEINVIRVRRYVFFMNPQKVKPPEDLQDLGVRFLQPFVNLLSKATYWWMNTLIISAHKKPIDLKAIGKLPIAMRAVTNYVCLKDAYEEQKKKVADHPNRTPSIWLAMYRAFGRPILLSSTFRYLADLLGFAGPLCISGIVQRVNETQNGTNNTTGISETLSSKEFLENAYVLAVLLFLALILQRTFLQASYYVTIETGINLRGALLAMIYNKILRLSTSNLSMGEMTLGQINNLVAIETNQLMWFLFLCPNLWAMPVQIIMGVILLYNLLGSSALVGAAVIVLLAPIQYFIATKLAEAQKSTLDYSTERLKKTNEILKGIKLLKLYAWEHIFCKSVEETRMKELSSLKTFALYTSLSIFMNAAIPIAAVLATFVTHAYASGNNLKPAEAFASLSLFHILVTPLFLLSTVVRFAVKAIISVQKLNEFLLSDEIGDDSWRTGESSLPFESCKKHTGVQPKTINRKQPGRYHLDSYEQSTRRLRPAETEDIAIKVTNGYFSWGSGLATLSNIDIRIPTGQLTMIVGQVGCGKSSLLLAILGEMQTLEGKVHWSNVNESEPSFEATRSRNRYSVAYAAQKPWLLNATVEENITFGSPFNKQRYKAVTDACSLQPDIDLLPFGDQTEIGERGINLSGGQRQRICVARALYQNTNIVFLDDPFSALDIHLSDHLMQEGILKFLQDDKRTLVLVTHKLQYLTHADWIIAMKDGSVLREGTLKDIQTKDVELYEHWKTLMNRQDQELEKDMEADQTTLERKTLRRAMYSREAKAQMEDEDEEEEEEEDEDDNMSTVMRLRTKMPWKTCWRYLTSGGFFLLILMIFSKLLKHSVIVAIDYWLATWTSEYSINNTGKADQTYYVAGFSILCGAGIFLCLVTSLTVEWMGLTAAKNLHHNLLNKIILGPIRFFDTTPLGLILNRFSADTNIIDQHIPPTLESLTRSTLLCLSAIGMISYATPVFLVALLPLGVAFYFIQKYFRVASKDLQELDDSTQLPLLCHFSETAEGLTTIRAFRHETRFKQRMLELTDTNNIAYLFLSAANRWLEVRTDYLGACIVLTASIASISGSSNSGLVGLGLLYALTITNYLNWVVRNLADLEVQMGAVKKVNSFLTMESENYEGTMDPSQVPEHWPQEGEIKIHDLCVRYENNLKPVLKHVKAYIKPGQKVGICGRTGSGKSSLSLAFFRMVDIFDGKIVIDGIDISKLPLHTLRSRLSIILQDPILFSGSIRFNLDPECKCTDDRLWEALEIAQLKNMVKSLPGGLDAVVTEGGENFSVGQRQLFCLARAFVRKSSILIMDEATASIDMATENILQKVVMTAFADRTVVTIAHRVSSIMDAGLVLVFSEGILVECDTVPNLLAHKNGLFSTLVMTNK |
| 919 | sp|Q9M7Q3|AI5L6\_ARATH | MGSRLNFKSFVDGVSEQQPTVGTSLPLTRQNSVFSLTFDEFQNSWGGGIGKDFGSMNMDELLKNIWTAEESHSMMGNNTSYTNISNGNSGNTVINGGGNNIGGLAVGVGGESGGFFTGGSLQRQGSLTLPRTISQKRVDDVWKELMKEDDIGNGVVNGGTSGIPQRQQTLGEMTLEEFLVRAGVVREEPQPVESVTNFNGGFYGFGSNGGLGTASNGFVANQPQDLSGNGVAVRQDLLTAQTQPLQMQQPQMVQQPQMVQQPQQLIQTQERPFPKQTTIAFSNTVDVVNRSQPATQCQEVKPSILGIHNHPMNNNLLQAVDFKTGVTVAAVSPGSQMSPDLTPKSALDASLSPVPYMFGRVRKTGAVLEKVIERRQKRMIKNRESAARSRARKQAYTMELEAEIAQLKELNEELQKKQVEIMEKQKNQLLEPLRQPWGMGCKRQCLRRTLTGPW |
| 920 | sp|Q9EQR2|ADAS\_RAT | MAEAAGEAGASERDPDAVRARRRLRVLSGHLLGRPQEAPSTNECKARRAASAAGASPAASPAAPESGTIPKKRQELMKWNGWGYNDSKFLLNKKGQVELTGKRYPLSGLALPTLKDWIQNTLGVNLEHKTTSKPSINPSEAPPSIVNEDFLQELKEAHISYSQDADDRVFRAHGHCLHEIFLLREGMFERIPDIVVWPTCHDDVVKIVNLACKYNLCIIPIGGGTSVSYGLMCPADETRTIISLDTSQMNRILWVDENNLTAHVEAGITGQDLERQLKESGYCTGHEPDSLEFSIVGGWISTRASGMKKNVYGNIEDLVVHMKMVTPRGVIEKSSQGPRMSTGPDIHHFIMGSEGTLGVITEATIKIRPTPEYQKYGSVAFPNFEQGVACLREIAKQRCAPASIRLMDNQQFQFGHALKPQVSSIFTSFLDGFKKFYITKFKGFDPNQISVATLLFEGDREKVLQHEKQVYDIAAKFGGLAAGEDNGQRGYLLTYVIAYMRDLGLEYYVVGESFETSAPWDRVIDLCRNVKERIRRECKERGVQFAPLSTCRVTQTYDAGACIYFYFAFNYRGISDPLTVFEQTEAAARDEILANGGSLSHHHGVGKLRKQWLKESISDVGFGMLKSVKDYVDPSNIFGNRNLL |
| 921 | sp|Q96QP1|ALPK1\_HUMAN | MNNQKVVAVLLQECKQVLDQLLLEAPDVSEEDKSEDQRCRALLPSELRTLIQEAKEMKWPFVPEKWQYKQAVGPEDKTNLKDVIGAGLQQLLASLRASILARDCAAAAAIVFLVDRFLYGLDVSGKLLQVAKGLHKLQPATPIAPQVVIRQARISVNSGKLLKAEYILSSLISNNGATGTWLYRNESDKVLVQSVCIQIRGQILQKLGMWYEAAELIWASIVGYLALPQPDKKGLSTSLGILADIFVSMSKNDYEKFKNNPQINLSLLKEFDHHLLSAAEACKLAAAFSAYTPLFVLTAVNIRGTCLLSYSSSNDCPPELKNLHLCEAKEAFEIGLLTKRDDEPVTGKQELHSFVKAAFGLTTVHRRLHGETGTVHAASQLCKEAMGKLYNFSTSSRSQDREALSQEVMSVIAQVKEHLQVQSFSNVDDRSYVPESFECRLDKLILHGQGDFQKILDTYSQHHTSVCEVFESDCGNNKNEQKDAKTGVCITALKTEIKNIDTVSTTQEKPHCQRDTGISSSLMGKNVQRELRRGGRRNWTHSDAFRVSLDQDVETETEPSDYSNGEGAVFNKSLSGSQTSSAWSNLSGFSSSASWEEVNYHVDDRSARKEPGKEHLVDTQCSTALSEELENDREGRAMHSLHSQLHDLSLQEPNNDNLEPSQNQPQQQMPLTPFSPHNTPGIFLAPGAGLLEGAPEGIQEVRNMGPRNTSAHSRPSYRSASWSSDSGRPKNMGTHPSVQKEEAFEIIVEFPETNCDVKDRQGKEQGEEISERGAGPTFKASPSWVDPEGETAESTEDAPLDFHRVLHNSLGNISMLPCSSFTPNWPVQNPDSRKSGGPVAEQGIDPDASTVDEEGQLLDSMDVPCTNGHGSHRLCILRQPPGQRAETPNSSVSGNILFPVLSEDCTTTEEGNQPGNMLNCSQNSSSSSVWWLKSPAFSSGSSEGDSPWSYLNSSGSSWVSLPGKMRKEILEARTLQPDDFEKLLAGVRHDWLFQRLENTGVFKPSQLHRAHSALLLKYSKKSELWTAQETIVYLGDYLTVKKKGRQRNAFWVHHLHQEEILGRYVGKDYKEQKGLWHHFTDVERQMTAQHYVTEFNKRLYEQNIPTQIFYIPSTILLILEDKTIKGCISVEPYILGEFVKLSNNTKVVKTEYKATEYGLAYGHFSYEFSNHRDVVVDLQGWVTGNGKGLIYLTDPQIHSVDQKVFTTNFGKRGIFYFFNNQHVECNEICHRLSLTRPSMEKPCT |
| 922 | sp|P10127|ADH4\_YEAST | MSSVTGFYIPPISFFGEGALEETADYIKNKDYKKALIVTDPGIAAIGLSGRVQKMLEERDLNVAIYDKTQPNPNIANVTAGLKVLKEQNSEIVVSIGGGSAHDNAKAIALLATNGGEIGDYEGVNQSKKAALPLFAINTTAGTASEMTRFTIISNEEKKIKMAIIDNNVTPAVAVNDPSTMFGLPPALTAATGLDALTHCIEAYVSTASNPITDACALKGIDLINESLVAAYKDGKDKKARTDMCYAEYLAGMAFNNASLGYVHALAHQLGGFYHLPHGVCNAVLLPHVQEANMQCPKAKKRLGEIALHFGASQEDPEETIKALHVLNRTMNIPRNLKELGVKTEDFEILAEHAMHDACHLTNPVQFTKEQVVAIIKKAYEY |
| 923 | sp|P00978|AMBP\_BOVIN | MRSLSGLLLLLTACLAVNASSVPTLPDDIQVQENFDLSRIYGKWFNVAVGSTCPWLKRFKEKMTMSTVVLIAGPTSKEISVTNTHRRKGVCESISGTYEKTSADGKFLYHKAKWNITMESYVVHTNYDEYAIFLTKKLSRRHGPTITVKLYGREPQLRESLLEEFREVALGVGIPEDAIFTMPDRGECVPGEQDPVPTPLSRARRAVLTQEEEGSGAGQPVTNFSKKADSCQLDYSQGPCLGLFKRYFYNGTSMACETFLYGGCMGNGNNFLSEKECLQTCRTVEACNLPIVQGPCRSYIQLWAFDAVKGKCVRFSYGGCKGNGNKFYSEKECKEYCGIPGEADEELLRFSN |
| 924 | sp|O60241|AGRB2\_HUMAN | MENTGWMGKGHRMTPACPLLLSVILSLRLATAFDPAPSACSALASGVLYGAFSLQDLFPTIASGCSWTLENPDPTKYSLYLRFNRQEQVCAHFAPRLLPLDHYLVNFTCLRPSPEEAVAQAESEVGRPEEEEAEAAAGLELCSGSGPFTFLHFDKNFVQLCLSAEPSEAPRLLAPAALAFRFVEVLLINNNNSSQFTCGVLCRWSEECGRAAGRACGFAQPGCSCPGEAGAGSTTTTSPGPPAAHTLSNALVPGGPAPPAEADLHSGSSNDLFTTEMRYGEEPEEEPKVKTQWPRSADEPGLYMAQTGDPAAEEWSPWSVCSLTCGQGLQVRTRSCVSSPYGTLCSGPLRETRPCNNSATCPVHGVWEEWGSWSLCSRSCGRGSRSRMRTCVPPQHGGKACEGPELQTKLCSMAACPVEGQWLEWGPWGPCSTSCANGTQQRSRKCSVAGPAWATCTGALTDTRECSNLECPATDSKWGPWNAWSLCSKTCDTGWQRRFRMCQATGTQGYPCEGTGEEVKPCSEKRCPAFHEMCRDEYVMLMTWKKAAAGEIIYNKCPPNASGSASRRCLLSAQGVAYWGLPSFARCISHEYRYLYLSLREHLAKGQRMLAGEGMSQVVRSLQELLARRTYYSGDLLFSVDILRNVTDTFKRATYVPSADDVQRFFQVVSFMVDAENKEKWDDAQQVSPGSVHLLRVVEDFIHLVGDALKAFQSSLIVTDNLVISIQREPVSAVSSDITFPMRGRRGMKDWVRHSEDRLFLPKEVLSLSSPGKPATSGAAGSPGRGRGPGTVPPGPGHSHQRLLPADPDESSYFVIGAVLYRTLGLILPPPRPPLAVTSRVMTVTVRPPTQPPAEPLITVELSYIINGTTDPHCASWDYSRADASSGDWDTENCQTLETQAAHTRCQCQHLSTFAVLAQPPKDLTLELAGSPSVPLVIGCAVSCMALLTLLAIYAAFWRFIKSERSIILLNFCLSILASNILILVGQSRVLSKGVCTMTAAFLHFFFLSSFCWVLTEAWQSYLAVIGRMRTRLVRKRFLCLGWGLPALVVAVSVGFTRTKGYGTSSYCWLSLEGGLLYAFVGPAAVIVLVNMLIGIIVFNKLMARDGISDKSKKQRAGSERCPWASLLLPCSACGAVPSPLLSSASARNAMASLWSSCVVLPLLALTWMSAVLAMTDRRSVLFQALFAVFNSAQGFVITAVHCFLRREVQDVVKCQMGVCRADESEDSPDSCKNGQLQILSDFEKDVDLACQTVLFKEVNTCNPSTITGTLSRLSLDEDEEPKSCLVGPEGSLSFSPLPGNILVPMAASPGLGEPPPPQEANPVYMCGEGGLRQLDLTWLRPTEPGSEGDYMVLPRRTLSLQPGGGGGGGEDAPRARPEGTPRRAAKTVAHTEGYPSFLSVDHSGLGLGPAYGSLQNPYGMTFQPPPPTPSARQVPEPGERSRTMPRTVPGSTMKMGSLERKKLRYSDLDFEKVMHTRKRHSELYHELNQKFHTFDRYRSQSTAKREKRWSVSSGGAAERSVCTDKPSPGERPSLSQHRRHQSWSTFKSMTLGSLPPKPRERLTLHRAAAWEPTEPPDGDFQTEV |
| 925 | sp|Q13085|ACACA\_HUMAN | MDEPSPLAQPLELNQHSRFIIGSVSEDNSEDEISNLVKLDLLEEKEGSLSPASVGSDTLSDLGISSLQDGLALHIRSSMSGLHLVKQGRDRKKIDSQRDFTVASPAEFVTRFGGNKVIEKVLIANNGIAAVKCMRSIRRWSYEMFRNERAIRFVVMVTPEDLKANAEYIKMADHYVPVPGGPNNNNYANVELILDIAKRIPVQAVWAGWGHASENPKLPELLLKNGIAFMGPPSQAMWALGDKIASSIVAQTAGIPTLPWSGSGLRVDWQENDFSKRILNVPQELYEKGYVKDVDDGLQAAEEVGYPVMIKASEGGGGKGIRKVNNADDFPNLFRQVQAEVPGSPIFVMRLAKQSRHLEVQILADQYGNAISLFGRDCSVQRRHQKIIEEAPATIATPAVFEHMEQCAVKLAKMVGYVSAGTVEYLYSQDGSFYFLELNPRLQVEHPCTEMVADVNLPAAQLQIAMGIPLYRIKDIRMMYGVSPWGDSPIDFEDSAHVPCPRGHVIAARITSENPDEGFKPSSGTVQELNFRSNKNVWGYFSVAAAGGLHEFADSQFGHCFSWGENREEAISNMVVALKELSIRGDFRTTVEYLIKLLETESFQMNRIDTGWLDRLIAEKVQAERPDTMLGVVCGALHVADVSLRNSVSNFLHSLERGQVLPAHTLLNTVDVELIYEGVKYVLKVTRQSPNSYVVIMNGSCVEVDVHRLSDGGLLLSYDGSSYTTYMKEEVDRYRITIGNKTCVFEKENDPSVMRSPSAGKLIQYIVEDGGHVFAGQCYAEIEVMKMVMTLTAVESGCIHYVKRPGAALDPGCVLAKMQLDNPSKVQQAELHTGSLPRIQSTALRGEKLHRVFHYVLDNLVNVMNGYCLPDPFFSSKVKDWVERLMKTLRDPSLPLLELQDIMTSVSGRIPPNVEKSIKKEMAQYASNITSVLCQFPSQQIANILDSHAATLNRKSEREVFFMNTQSIVQLVQRYRSGIRGHMKAVVMDLLRQYLRVETQFQNGHYDKCVFALREENKSDMNTVLNYIFSHAQVTKKNLLVTMLIDQLCGRDPTLTDELLNILTELTQLSKTTNAKVALRARQVLIASHLPSYELRHNQVESIFLSAIDMYGHQFCIENLQKLILSETSIFDVLPNFFYHSNQVVRMAALEVYVRRAYIAYELNSVQHRQLKDNTCVVEFQFMLPTSHPNRGNIPTLNRMSFSSNLNHYGMTHVASVSDVLLDNSFTPPCQRMGGMVSFRTFEDFVRIFDEVMGCFSDSPPQSPTFPEAGHTSLYDEDKVPRDEPIHILNVAIKTDCDIEDDRLAAMFREFTQQNKATLVDHGIRRLTFLVAQKDFRKQVNYEVDRRFHREFPKFFTFRARDKFEEDRIYRHLEPALAFQLELNRMRNFDLTAIPCANHKMHLYLGAAKVEVGTEVTDYRFFVRAIIRHSDLVTKEASFEYLQNEGERLLLEAMDELEVAFNNTNVRTDCNHIFLNFVPTVIMDPSKIEESVRSMVMRYGSRLWKLRVLQAELKINIRLTPTGKAIPIRLFLTNESGYYLDISLYKEVTDSRTAQIMFQAYGDKQGPLHGMLINTPYVTKDLLQSKRFQAQSLGTTYIYDIPEMFRQSLIKLWESMSTQAFLPSPPLPSDMLTYTELVLDDQGQLVHMNRLPGGNEIGMVAWKMTFKSPEYPEGRDIIVIGNDITYRIGSFGPQEDLLFLRASELARAEGIPRIYVSANSGARIGLAEEIRHMFHVAWVDPEDPYKGYRYLYLTPQDYKRVSALNSVHCEHVEDEGESRYKITDIIGKEEGIGPENLRGSGMIAGESSLAYNEIITISLVTCRAIGIGAYLVRLGQRTIQVENSHLILTGAGALNKVLGREVYTSNNQLGGIQIMHNNGVTHCTVCDDFEGVFTVLHWLSYMPKSVHSSVPLLNSKDPIDRIIEFVPTKTPYDPRWMLAGRPHPTQKGQWLSGFFDYGSFSEIMQPWAQTVVVGRARLGGIPVGVVAVETRTVELSIPADPANLDSEAKIIQQAGQVWFPDSAFKTYQAIKDFNREGLPLMVFANWRGFSGGMKDMYDQVLKFGAYIVDGLRECCQPVLVYIPPQAELRGGSWVVIDSSINPRHMEMYADRESRGSVLEPEGTVEIKFRRKDLVKTMRRVDPVYIHLAERLGTPELSTAERKELENKLKEREEFLIPIYHQVAVQFADLHDTPGRMQEKGVISDILDWKTSRTFFYWRLRRLLLEDLVKKKIHNANPELTDGQIQAMLRRWFVEVEGTVKAYVWDNNKDLAEWLEKQLTEEDGVHSVIEENIKCISRDYVLKQIRSLVQANPEVAMDSIIHMTQHISPTQRAEVIRILSTMDSPST |
| 926 | sp|Q8WXG9|AGRV1\_HUMAN | MSVFLGPGMPSASLLVNLLSALLILFVFGETEIRFTGQTEFVVNETSTTVIRLIIERIGEPANVTAIVSLYGEDAGDFFDTYAAAFIPAGETNRTVYIAVCDDDLPEPDETFIFHLTLQKPSANVKLGWPRTVTVTILSNDNAFGIISFNMLPSIAVSEPKGRNESMPLTLIREKGTYGMVMVTFEVEGGPNPPDEDLSPVKGNITFPPGRATVIYNLTVLDDEVPENDEIFLIQLKSVEGGAEINTSRNSIEIIIKKNDSPVRFLQSIYLVPEEDHILIIPVVRGKDNNGNLIGSDEYEVSISYAVTTGNSTAHAQQNLDFIDLQPNTTVVFPPFIHESHLKFQIVDDTIPEIAESFHIMLLKDTLQGDAVLISPSVVQVTIKPNDKPYGVLSFNSVLFERTVIIDEDRISRYEEITVVRNGGTHGNVSANWVLTRNSTDPSPVTADIRPSSGVLHFAQGQMLATIPLTVVDDDLPEEAEAYLLQILPHTIRGGAEVSEPAELLFYIQDSDDVYGLITFFPMENQKIESSPGERYLSLSFTRLGGTKGDVRLLYSVLYIPAGAVDPLQAKEGILNISRRNDLIFPEQKTQVTTKLPIRNDAFLQNGAHFLVQLETVELLNIIPLIPPISPRFGEICNISLLVTPAIANGEIGFLSNLPIILHEPEDFAAEVVYIPLHRDGTDGQATVYWSLKPSGFNSKAVTPDDIGPFNGSVLFLSGQSDTTINITIKGDDIPEMNETVTLSLDRVNVENQVLKSGYTSRDLIILENDDPGGVFEFSPASRGPYVIKEGESVELHIIRSRGSLVKQFLHYRVEPRDSNEFYGNTGVLEFKPGEREIVITLLARLDGIPELDEHYWVVLSSHGERESKLGSATIVNITILKNDDPHGIIEFVSDGLIVMINESKGDAIYSAVYDVVRNRGNFGDVSVSWVVSPDFTQDVFPVQGTVVFGDQEFSKNITIYSLPDEIPEEMEEFTVILLNGTGGAKVGNRTTATLRIRRNDDPIYFAEPRVVRVQEGETANFTVLRNGSVDVTCMVQYATKDGKATARERDFIPVEKGETLIFEVGSRQQSISIFVNEDGIPETDEPFYIILLNSTGDTVVYQYGVATVIIEANDDPNGIFSLEPIDKAVEEGKTNAFWILRHRGYFGSVSVSWQLFQNDSALQPGQEFYETSGTVNFMDGEEAKPIILHAFPDKIPEFNEFYFLKLVNISGGSPGPGGQLAETNLQVTVMVPFNDDPFGVFILDPECLEREVAEDVLSEDDMSYITNFTILRQQGVFGDVQLGWEILSSEFPAGLPPMIDFLLVGIFPTTVHLQQHMRRHHSGTDALYFTGLEGAFGTVNPKYHPSRNNTIANFTFSAWVMPNANTNGFIIAKDDGNGSIYYGVKIQTNESHVTLSLHYKTLGSNATYIAKTTVMKYLEESVWLHLLIILEDGIIEFYLDGNAMPRGIKSLKGEAITDGPGILRIGAGINGNDRFTGLMQDVRSYERKLTLEEIYELHAMPAKSDLHPISGYLEFRQGETNKSFIISARDDNDEEGEELFILKLVSVYGGARISEENTTARLTIQKSDNANGLFGFTGACIPEIAEEGSTISCVVERTRGALDYVHVFYTISQIETDGINYLVDDFANASGTITFLPWQRSEVLNIYVLDDDIPELNEYFRVTLVSAIPGDGKLGSTPTSGASIDPEKETTDITIKASDHPYGLLQFSTGLPPQPKDAMTLPASSVPHITVEEEDGEIRLLVIRAQGLLGRVTAEFRTVSLTAFSPEDYQNVAGTLEFQPGERYKYIFINITDNSIPELEKSFKVELLNLEGGVAELFRVDGSGSGDGDMEFFLPTIHKRASLGVASQILVTIAASDHAHGVFEFSPESLFVSGTEPEDGYSTVTLNVIRHHGTLSPVTLHWNIDSDPDGDLAFTSGNITFEIGQTSANITVEILPDEDPELDKAFSVSVLSVSSGSLGAHINATLTVLASDDPYGIFIFSEKNRPVKVEEATQNITLSIIRLKGLMGKVLVSYATLDDMEKPPYFPPNLARATQGRDYIPASGFALFGANQSEATIAISILDDDEPERSESVFIELLNSTLVAKVQSRSIPNSPRLGPKVETIAQLIIIANDDAFGTLQLSAPIVRVAENHVGPIINVTRTGGAFADVSVKFKAVPITAIAGEDYSIASSDVVLLEGETSKAVPIYVINDIYPELEESFLVQLMNETTGGARLGALTEAVIIIEASDDPYGLFGFQITKLIVEEPEFNSVKVNLPIIRNSGTLGNVTVQWVATINGQLATGDLRVVSGNVTFAPGETIQTLLLEVLADDVPEIEEVIQVQLTDASGGGTIGLDRIANIIIPANDDPYGTVAFAQMVYRVQEPLERSSCANITVRRSGGHFGRLLLFYSTSDIDVVALAMEEGQDLLSYYESPIQGVPDPLWRTWMNVSAVGEPLYTCATLCLKEQACSAFSFFSASEGPQCFWMTSWISPAVNNSDFWTYRKNMTRVASLFSGQAVAGSDYEPVTRQWAIMQEGDEFANLTVSILPDDFPEMDESFLISLLEVHLMNISASLKNQPTIGQPNISTVVIALNGDAFGVFVIYNISPNTSEDGLFVEVQEQPQTLVELMIHRTGGSLGQVAVEWRVVGGTATEGLDFIGAGEILTFAEGETKKTVILTILDDSEPEDDESIIVSLVYTEGGSRILPSSDTVRVNILANDNVAGIVSFQTASRSVIGHEGEILQFHVIRTFPGRGNVTVNWKIIGQNLELNFANFSGQLFFPEGSLNTTLFVHLLDDNIPEEKEVYQVILYDVRTQGVPPAGIALLDAQGYAAVLTVEASDEPHGVLNFALSSRFVLLQEANITIQLFINREFGSLGAINVTYTTVPGMLSLKNQTVGNLAEPEVDFVPIIGFLILEEGETAAAINITILEDDVPELEEYFLVNLTYVGLTMAASTSFPPRLDSEGLTAQVIIDANDGARGVIEWQQSRFEVNETHGSLTLVAQRSREPLGHVSLFVYAQNLEAQVGLDYIFTPMILHFADGERYKNVNIMILDDDIPEGDEKFQLILTNPSPGLELGKNTIALIIVLANDDGPGVLSFNNSEHFFLREPTALYVQESVAVLYIVREPAQGLFGTVTVQFIVTEVNSSNESKDLTPSKGYIVLEEGVRFKALQISAILDTEPEMDEYFVCTLFNPTGGARLGVHVQTLITVLQNQAPLGLFSISAVENRATSIDIEEANRTVYLNVSRTNGIDLAVSVQWETVSETAFGMRGMDVVFSVFQSFLDESASGWCFFTLENLIYGIMLRKSSVTVYRWQGIFIPVEDLNIENPKTCEAFNIGFSPYFVITHEERNEEKPSLNSVFTFTSGFKLFLVQTIIILESSQVRYFTSDSQDYLIIASQRDDSELTQVFRWNGGSFVLHQKLPVRGVLTVALFNKGGSVFLAISQANARLNSLLFRWSGSGFINFQEVPVSGTTEVEALSSANDIYLIFAENVFLGDQNSIDIFIWEMGQSSFRYFQSVDFAAVNRIHSFTPASGIAHILLIGQDMSALYCWNSERNQFSFVLEVPSAYDVASVTVKSLNSSKNLIALVGAHSHIYELAYISSHSDFIPSSGELIFEPGEREATIAVNILDDTVPEKEESFKVQLKNPKGGAEIGINDSVTITILSNDDAYGIVAFAQNSLYKQVEEMEQDSLVTLNVERLKGTYGRITIAWEADGSISDIFPTSGVILFTEGQVLSTITLTILADNIPELSEVVIVTLTRITTEGVEDSYKGATIDQDRSKSVITTLPNDSPFGLVGWRAASVFIRVAEPKENTTTLQLQIARDKGLLGDIAIHLRAQPNFLLHVDNQATENEDYVLQETIIIMKENIKEAHAEVSILPDDLPELEEGFIVTITEVNLVNSDFSTGQPSVRRPGMEIAEIMIEENDDPRGIFMFHVTRGAGEVITAYEVPPPLNVLQVPVVRLAGSFGAVNVYWKASPDSAGLEDFKPSHGILEFADKQVTAMIEITIIDDAEFELTETFNISLISVAGGGRLGDDVVVTVVIPQNDSPFGVFGFEEKTVMIDESLSSDDPDSYVTLTVVRSPGGKGTVRLEWTIDEKAKHNLSPLNGTLHFDETESQKTIVLHTLQDTVLEEDRRFTIQLISIDEVEISPVKGSASIIIRGDKRASGEVGIAPSSRHILIGEPSAKYNGTAIISLVRGPGILGEVTVFWRIFPPSVGEFAETSGKLTMRDEQSAVIVVIQALNDDIPEEKSFYEFQLTAVSEGGVLSESSSTANITVVASDSPYGRFAFSHEQLRVSEAQRVNITIIRSSGDFGHVRLWYKTMSGTAEAGLDFVPAAGELLFEAGEMRKSLHVEILDDDYPEGPEEFSLTITKVELQGRGYDFTIQENGLQIDQPPEIGNISIVRIIIMKNDNAEGIIEFDPKYTAFEVEEDVGLIMIPVVRLHGTYGYVTADFISQSSSASPGGVDYILHGSTVTFQHGQNLSFINISIIDDNESEFEEPIEILLTGATGGAVLGRHLVSRIIIAKSDSPFGVIRFLNQSKISIANPNSTMILSLVLERTGGLLGEIQVNWETVGPNSQEALLPQNRDIADPVSGLFYFGEGEGGVRTIILTIYPHEEIEVEETFIIKLHLVKGEAKLDSRAKDVTLTIQEFGDPNGVVQFAPETLSKKTYSEPLALEGPLLITFFVRRVKGTFGEIMVYWELSSEFDITEDFLSTSGFFTIADGESEASFDVHLLPDEVPEIEEDYVIQLVSVEGGAELDLEKSITWFSVYANDDPHGVFALYSDRQSILIGQNLIRSIQINITRLAGTFGDVAVGLRISSDHKEQPIVTENAERQLVVKDGATYKVDVVPIKNQVFLSLGSNFTLQLVTVMLVGGRFYGMPTILQEAKSAVLPVSEKAANSQVGFESTAFQLMNITAGTSHVMISRRGTYGALSVAWTTGYAPGLEIPEFIVVGNMTPTLGSLSFSHGEQRKGVFLWTFPSPGWPEAFVLHLSGVQSSAPGGAQLRSGFIVAEIEPMGVFQFSTSSRNIIVSEDTQMIRLHVQRLFGFHSDLIKVSYQTTAGSAKPLEDFEPVQNGELFFQKFQTEVDFEITIINDQLSEIEEFFYINLTSVEIRGLQKFDVNWSPRLNLDFSVAVITILDNDDLAGMDISFPETTVAVAVDTTLIPVETESTTYLSTSKTTTILQPTNVVAIVTEATGVSAIPEKLVTLHGTPAVSEKPDVATVTANVSIHGTFSLGPSIVYIEEEMKNGTFNTAEVLIRRTGGFTGNVSITVKTFGERCAQMEPNALPFRGIYGISNLTWAVEEEDFEEQTLTLIFLDGERERKVSVQILDDDEPEGQEFFYVFLTNPQGGAQIVEEKDDTGFAAFAMVIITGSDLHNGIIGFSEESQSGLELREGAVMRRLHLIVTRQPNRAFEDVKVFWRVTLNKTVVVLQKDGVNLVEELQSVSGTTTCTMGQTKCFISIELKPEKVPQVEVYFFVELYEATAGAAINNSARFAQIKILESDESQSLVYFSVGSRLAVAHKKATLISLQVARDSGTGLMMSVNFSTQELRSAETIGRTIISPAISGKDFVITEGTLVFEPGQRSTVLDVILTPETGSLNSFPKRFQIVLFDPKGGARIDKVYGTANITLVSDADSQAIWGLADQLHQPVNDDILNRVLHTISMKVATENTDEQLSAMMHLIEKITTEGKIQAFSVASRTLFYEILCSLINPKRKDTRGFSHFAEVTENFAFSLLTNVTCGSPGEKSKTILDSCPYLSILALHWYPQQINGHKFEGKEGDYIRIPERLLDVQDAEIMAGKSTCKLVQFTEYSSQQWFISGNNLPTLKNKVLSLSVKGQSSQLLTNDNEVLYRIYAAEPRIIPQTSLCLLWNQAAASWLSDSQFCKVVEETADYVECACSHMSVYAVYARTDNLSSYNEAFFTSGFICISGLCLAVLSHIFCARYSMFAAKLLTHMMAASLGTQILFLASAYASPQLAEESCSAMAAVTHYLYLCQFSWMLIQSVNFWYVLVMNDEHTERRYLLFFLLSWGLPAFVVILLIVILKGIYHQSMSQIYGLIHGDLCFIPNVYAALFTAALVPLTCLVVVFVVFIHAYQVKPQWKAYDDVFRGRTNAAEIPLILYLFALISVTWLWGGLHMAYRHFWMLVLFVIFNSLQGLYVFMVYFILHNQMCCPMKASYTVEMNGHPGPSTAFFTPGSGMPPAGGEISKSTQNLIGAMEEVPPDWERASFQQGSQASPDLKPSPQNGATFPSSGGYGQGSLIADEESQEFDDLIFALKTGAGLSVSDNESGQGSQEGGTLTDSQIVELRRIPIADTHL |
| 927 | sp|Q9TST5|ADRB2\_FELCA | MGQPGNRSVFLLAPNGSHAPDQDGTQERNDAWVVGMGIVMSLIVLAIVFGNVLVITAIARFERLQTVTNYFITSLACADLVMGLAVVPFGASHILMKMWTFGNFWCEFWTSIDVLCVTASIETLCVIAVDRYFAITSPFKYQSLLTKNKARVVILMVWIVSGLTSFLPIQMHWYRATHQEAINCYAKETCCDFFTNQAYAIASSIVSFYLPLVVMVFVYSRVFQVAQRQLQKIDKSEGRFHAQNLSQVEQDGRSGHGHRRASKFCLKEHKALKTLGIIMGTFTLCWLPFFIVNIVHVIQDNLIPKEVYILLNWVGYVNSAFNPLIYCRSPDFRIAFQELLCLRRSSLKAYGNGYSNNSNSRTDYAGEHSGGPLGQEKDSEVLCEDPPGTENLANRQGTVPNDSIDSQGQNGSTNDSLL |
| 928 | sp|Q9C9G6|AE7\_ARATH | MVSGLINENPIIYPKKERRLRTDTSITDELTPEPIDQLEIFDHIRDIKDPEHPNTLEDLRVVTEDSVEVDDENSYVRVTFTPTVEHCSMATVIGLCVRVKLLRSLPSRYKIDIRVAPGSHATEDALNKQLNDKERVAAALENPNLVEMVDECLPSEE |
| 929 | sp|O00116|ADAS\_HUMAN | MAEAAAAAGGTGLGAGASYGSAADRDRDPDPDRAGRRLRVLSGHLLGRPREALSTNECKARRAASAATAAPTATPAAQESGTIPKKRQEVMKWNGWGYNDSKFIFNKKGQIELTGKRYPLSGMGLPTFKEWIQNTLGVNVEHKTTSKASLNPSDTPPSVVNEDFLHDLKETNISYSQEADDRVFRAHGHCLHEIFLLREGMFERIPDIVLWPTCHDDVVKIVNLACKYNLCIIPIGGGTSVSYGLMCPADETRTIISLDTSQMNRILWVDENNLTAHVEAGITGQELERQLKESGYCTGHEPDSLEFSTVGGWVSTRASGMKKNIYGNIEDLVVHIKMVTPRGIIEKSCQGPRMSTGPDIHHFIMGSEGTLGVITEATIKIRPVPEYQKYGSVAFPNFEQGVACLREIAKQRCAPASIRLMDNKQFQFGHALKPQVSSIFTSFLDGLKKFYITKFKGFDPNQLSVATLLFEGDREKVLQHEKQVYDIAAKFGGLAAGEDNGQRGYLLTYVIAYIRDLALEYYVLGESFETSAPWDRVVDLCRNVKERITRECKEKGVQFAPFSTCRVTQTYDAGACIYFYFAFNYRGISDPLTVFEQTEAAAREEILANGGSLSHHHGVGKLRKQWLKESISDVGFGMLKSVKEYVDPNNIFGNRNLL |
| 930 | sp|P60710|ACTB\_MOUSE | MDDDIAALVVDNGSGMCKAGFAGDDAPRAVFPSIVGRPRHQGVMVGMGQKDSYVGDEAQSKRGILTLKYPIEHGIVTNWDDMEKIWHHTFYNELRVAPEEHPVLLTEAPLNPKANREKMTQIMFETFNTPAMYVAIQAVLSLYASGRTTGIVMDSGDGVTHTVPIYEGYALPHAILRLDLAGRDLTDYLMKILTERGYSFTTTAEREIVRDIKEKLCYVALDFEQEMATAASSSSLEKSYELPDGQVITIGNERFRCPEALFQPSFLGMESCGIHETTFNSIMKCDVDIRKDLYANTVLSGGTTMYPGIADRMQKEITALAPSTMKIKIIAPPERKYSVWIGGSILASLSTFQQMWISKQEYDESGPSIVHRKCF |
| 931 | sp|P77674|ABDH\_ECOLI | MQHKLLINGELVSGEGEKQPVYNPATGDVLLEIAEASAEQVDAAVRAADAAFAEWGQTTPKVRAECLLKLADVIEENGQVFAELESRNCGKPLHSAFNDEIPAIVDVFRFFAGAARCLNGLAAGEYLEGHTSMIRRDPLGVVASIAPWNYPLMMAAWKLAPALAAGNCVVLKPSEITPLTALKLAELAKDIFPAGVINILFGRGKTVGDPLTGHPKVRMVSLTGSIATGEHIISHTASSIKRTHMELGGKAPVIVFDDADIEAVVEGVRTFGYYNAGQDCTAACRIYAQKGIYDTLVEKLGAAVATLKSGAPDDESTELGPLSSLAHLERVGKAVEEAKATGHIKVITGGEKRKGNGYYYAPTLLAGALQDDAIVQKEVFGPVVSVTPFDNEEQVVNWANDSQYGLASSVWTKDVGRAHRVSARLQYGCTWVNTHFMLVSEMPHGGQKLSGYGKDMSLYGLEDYTVVRHVMVKH |
| 932 | sp|O80612|APY6\_ARATH | MRRSHARSRVKNSSSSKSDMDPIKFQIRSGNRAPSSSSTYTLTKPNSKHAKSNLLLTVGSISVVLGVLFLCYSILFSGGNLRGSLRYSVVIDGGSTGTRIHVFGYRIESGKPVFEFRGANYASLKLHPGLSAFADDPDGASVSLTELVEFAKGRVPKGMWIETEVRLMATAGMRLLELPVQEKILGVARRVLKSSGFLFRDEWASVISGSDEGVYAWVVANFALGSLGGDPLKTTGIVELGGASAQVTFVSSEPMPPEFSRTISFGNVTYNLYSHSFLHFGQNAAHDKLWGSLLSRDHNSAVEPTREKIFTDPCAPKGYNLDANTQKHLSGLLAEESRLSDSFQAGGNYSQCRSAALTILQDGNEKCSYQHCSIGSTFTPKLRGRFLATENFFYTSKFFGLGEKAWLSNMISAGERFCGEDWSKLRVKDPSLHEEDLLRYCFSSAYIVSLLHDTLGIPLDDERIGYANQAGDIPLDWALGAFIQQTATETSQHAASGNLHWFHALFSNHPKTLHYLIGIPILMTVLVYLVTKWRKPQLKTIYDLEKGRYIVTRIR |
| 933 | sp|Q60765|ATF3\_MOUSE | MMLQHPGQVSASEVSATAIVPCLSPPGSLVFEDFANLTPFVKEELRFAIQNKHLCHRMSSALESVTVNNRPLEMSVTKSEAAPEEDERKRRRRERNKIAAAKCRNKKKEKTECLQKESEKLESVNAELKAQIEELKNEKQHLIYMLNLHRPTCIVRAQNGRTPEDERNLFIQQIKEGTLQS |
| 934 | sp|Q9SSS9|ATPD\_ARATH | MASLQQTLFSLQSKLPPSSFQIARSLPLRKTFPIRINNGGNAAGARMSATAASSYAMALADVAKRNDTMELTVTDIEKLEQVFSDPQVLNFFANPTITVEKKRQVIDDIVKSSSLQSHTSNFLNVLVDANRINIVTEIVKEFELVYNKLTDTQLAEVRSVVKLEAPQLAQIAKQVQKLTGAKNVRVKTVIDASLVAGFTIRYGESGSKLIDMSVKKQLEDIASQLELGEIQLAT |
| 935 | sp|O75366|AVIL\_HUMAN | MPLTSAFRAVDNDPGIIVWRIEKMELALVPVSAHGNFYEGDCYVILSTRRVASLLSQDIHFWIGKDSSQDEQSCAAIYTTQLDDYLGGSPVQHREVQYHESDTFRGYFKQGIIYKQGGVASGMKHVETNTYDVKRLLHVKGKRNIRATEVEMSWDSFNRGDVFLLDLGKVIIQWNGPESNSGERLKAMLLAKDIRDRERGGRAKIGVIEGDKEAASPELMKVLQDTLGRRSIIKPTVPDEIIDQKQKSTIMLYHISDSAGQLAVTEVATRPLVQDLLNHDDCYILDQSGTKIYVWKGKGATKAEKQAAMSKALGFIKMKSYPSSTNVETVNDGAESAMFKQLFQKWSVKDQTMGLGKTFSIGKIAKVFQDKFDVTLLHTKPEVAAQERMVDDGNGKVEVWRIENLELVPVEYQWYGFFYGGDCYLVLYTYEVNGKPHHILYIWQGRHASQDELAASAYQAVEVDRQFDGAAVQVRVRMGTEPRHFMAIFKGKLVIFEGGTSRKGNAEPDPPVRLFQIHGNDKSNTKAVEVPAFASSLNSNDVFLLRTQAEHYLWYGKGSSGDERAMAKELASLLCDGSENTVAEGQEPAEFWDLLGGKTPYANDKRLQQEILDVQSRLFECSNKTGQFVVTEITDFTQDDLNPTDVMLLDTWDQVFLWIGAEANATEKESALATAQQYLHTHPSGRDPDTPILIIKQGFEPPIFTGWFLAWDPNIWSAGKTYEQLKEELGDAAAIMRITADMKNATLSLNSNDSEPKYYPIAVLLKNQNQELPEDVNPAKKENYLSEQDFVSVFGITRGQFAALPGWKQLQMKKEKGLF |
| 936 | sp|P21275|BMP4\_MOUSE | MIPGNRMLMVVLLCQVLLGGASHASLIPETGKKKVAEIQGHAGGRRSGQSHELLRDFEATLLQMFGLRRRPQPSKSAVIPDYMRDLYRLQSGEEEEEEQSQGTGLEYPERPASRANTVRSFHHEEHLENIPGTSESSAFRFLFNLSSIPENEVISSAELRLFREQVDQGPDWEQGFHRINIYEVMKPPAEMVPGHLITRLLDTRLVHHNVTRWETFDVSPAVLRWTREKQPNYGLAIEVTHLHQTRTHQGQHVRISRSLPQGSGDWAQLRPLLVTFGHDGRGHTLTRRRAKRSPKHHPQRSRKKNKNCRRHSLYVDFSDVGWNDWIVAPPGYQAFYCHGDCPFPLADHLNSTNHAIVQTLVNSVNSSIPKACCVPTELSAISMLYLDEYDKVVLKNYQEMVVEGCGCR |
| 937 | sp|O35854|BCAT2\_RAT | MSAAILGQVWTRKLLPIPWRLCVPGRCVSSNFKAADLQVQVTREPQKKPAPSQPLLFGKTFTDHMLMVEWNSKTGWGPPRIQPFQNLTLHPACSGLHYSLQLFEGLKAYKGRDKQVRLFRPWLNMDRMLRSARRLCLPDFDKQELLECIRQLIEVDKDWVPDGNGTSLYVRPVLIGNEPSLGVGMVTQALLFVILCPVGSYFPGDSMTPVSLLADPSFVRAWIGGVGDCKLGGNYGPTVAVQQEAQKKGCEQVLWLYGPDHQLTEVGTMNIFVYWTHEDGELELATPPLDGIILPGVVRQSLLDLARTWGEFRVAERKVTMKELKRALEEGRVREVFGSGTACQVCPVHQILYEGKQLHIPTMENGPELILRFQKELKAIQYGTSAHDWMLRV |
| 938 | sp|Q5AAF4|BNR1\_CANAL | MNEPPPKRQSVFAKGMKKLQRSKSLLNFAEQAKPPTPENFSSLDPKSNLNSIGLSLVGYGLSSDHLPPPRLDTDSESVSSRTSSPTLHVTTKFNPKQRVESFQTATNFKNQIPPEEIVDQLFEKLLSIRVFPDEAVYSLKKQPVERKWELLLREHETNHHFDLKKLSEQATDKFLTNRDRFQEHEFLIMSRSTTQEPKPKLKPLRIVSGGEDYDDEETPTVTKLVHDDSSTSKLSIESGGSSGAPTETESLLGLVNKKLKIRDGSPDWYVSRIMANKLSLKDCKKLERKLVENNVVKNSGVTWTQGFINAQGETALSVVLTKINKKSIKSNEEFDKEYLIVKCLKHINSEKRDETSSLKEKVYVVKALVFLLVSPRLTTRILVTEVLVMLMLLRDKTLWKSALDGLSSLQDRNGDYVIFQPWLNAFEETIIKYSWSQNKAGELSNLKNYATITLILINSMVDMCSSLKRRISIRRDFGNARILNIFEKLAQIEDTRIDNEIEKYEMYAEEDYNEYVEGKKKRNSKQLPNIPQSKLKLLQVSDFVTTPEANTSLEEDELTPELEDNLSGTESSFDEKSFMTKLKEAEDIESDGAMKSVLQRLMKLKQSERSTEDVHKMLVLVDSMLQHVTNESRVIGTDAHSVLNITIQKLMDRLSTEDMARRAVAESKMLSRQLELVKEEKELLEKELETNKIETIRELKKENYYQAELIATQERQLSKLQQKIEQLQSPNNTALPVVDVGQQGFGNGTVASLKDTSSSSPSKRPPTPPGLYSMQKGSLRGGISAPPMLDFKDARPVSDLQDSRPVSDLQDAPRLVESSAPPLPESKDPVAQPPPPESKDSVAPPPPPVPDFIKSAAPPPPPLPGFMNASAPPPPPVPEFIKSSAPPPPPLPGFITTTPPPPPPLPGFITTTPPPPPMPGMLQPGKVKELGTLFKEKHKQEPQKGITKTKADVVPSIRPKNKLKQMHWDKLENIEKTFWNNLEDSVLSNKLIEQGVLGEVEQVFAAKTATIKKKTAVESQQQPTKKSFLSRDLSQQFGINLHMFANLSEEKLVLKVLRCNSEILENHSVLEFFNNEALVELSDSLFRNLAPYSTDPRTRKKPMKNPEELERADRIFLELCYNLRHYWRSRSRALLFSQTYKKDYIDLMRKLNIVDEANAALKKSESLQNVLGIIRTVGNFMNDDAKQALGFKLDTLQRLKFMKDDQNSMTFLHYIEKIVRHSFPEYGSFVDDLNVLSTLHNISIEQLETDCEEMSRSVKNITDSLERGKLSNKKDLHPEDRILTTISSPMLNAKNKNAMLQSHLKRTAGELNSLMTFFGENPKDATARNTFFYKFVTFITEYKKAHVENIQREEEQRTYEIRKKILEDKIAKKEKLKEESAEPEAVVDTAEESSAVIDSLLEKLKSSTPITTNRAKTKNRRSKALSFYSENPLEIVADTKYESVNNLKRRMTTRKRTTDGETSPKSEQFMSRAQAMLHQLRNKEE |
| 939 | sp|Q8CCN5|BCAS3\_MOUSE | MNETMATDSPRRPSRCTGGVVVRPQAVTEQSYMESVVTFLQDVVPQAYSGSPLTEEKEKIVWVRFENADLNDTSRNLEFHELHSTGNEPPLLVMIGYSDGMQVWGIPISGEAQELFSVRHGPVRAARILPAPQLGAQKCDNFAEKRPLLGVCKSIGSSGTTPPYCCVDLYSLRTGEMVKSIQFKTPIYDLHCNKRILVVVLQEKIAAFDSCTFTKKFFVTSCYPCPGPNMNPIALGSRWLAYAENKLIRCHQSRGGACGDNIQSYTATVLSAAKTLKSGLTMVGKVVTQLTGTLPSGVTEDDVALHCNSRRSPLVPGIITVIDTETVGEGQVLVSEDSDSDGIVAHFPAHEKPVCCMAFNTSGMLLVTTDTLGHDFHVFQILTHPWSSSQCAVHHLYTLHRGETEAKVQDICFSHDCRWVVVSTLRGTSHVFPINPYGGQPCVRTHMSPRVVNRMSRFQKSAGLEEIEQELTSKQGGRCSPVPGLSSSPSGSPLHGKLTSQDSYNNFTNNNPGNPRLSPLPSLMVVTPLAQIKQPMTLGTITKRTGPYLFGAGCFSIKAPCKVKSPPQISPSKSMGGEFCVAAVFGTSRSWFANNAGLKREKDQSKQVVVESLYIISCYGTLVEHMIEPRPISTAPKISDDTPLEIMTSPRASWTLVRTPQWNELQPPFNANHPLLLAAEAVQYYQLLLAGSLPPGSPGPITRHGSYDSLASDHSGQEDEEWLSQVEIVTHTGPHRRLWMGPQFHFKTIQTSGQTTVISTSSSVLQSHGPSDTPQPLLDFDTDDLDLNSLRIQPVRSDPVSMPGSSRAVSDRRGVSTVTDAASGTFDRSVTLLEVCGSWPEGFGLRHMSSMEHSEEGLRERLADAMAESPSRDVVGSGTELQREGSIETLSNSSGSTSGSIPRNFDGYRSPLPTNESQPLSLFPTGFP |
| 940 | sp|Q04656|ATP7A\_HUMAN | MDPSMGVNSVTISVEGMTCNSCVWTIEQQIGKVNGVHHIKVSLEEKNATIIYDPKLQTPKTLQEAIDDMGFDAVIHNPDPLPVLTDTLFLTVTASLTLPWDHIQSTLLKTKGVTDIKIYPQKRTVAVTIIPSIVNANQIKELVPELSLDTGTLEKKSGACEDHSMAQAGEVVLKMKVEGMTCHSCTSTIEGKIGKLQGVQRIKVSLDNQEATIVYQPHLISVEEMKKQIEAMGFPAFVKKQPKYLKLGAIDVERLKNTPVKSSEGSQQRSPSYTNDSTATFIIDGMHCKSCVSNIESTLSALQYVSSIVVSLENRSAIVKYNASSVTPESLRKAIEAVSPGLYRVSITSEVESTSNSPSSSSLQKIPLNVVSQPLTQETVINIDGMTCNSCVQSIEGVISKKPGVKSIRVSLANSNGTVEYDPLLTSPETLRGAIEDMGFDATLSDTNEPLVVIAQPSSEMPLLTSTNEFYTKGMTPVQDKEEGKNSSKCYIQVTGMTCASCVANIERNLRREEGIYSILVALMAGKAEVRYNPAVIQPPMIAEFIRELGFGATVIENADEGDGVLELVVRGMTCASCVHKIESSLTKHRGILYCSVALATNKAHIKYDPEIIGPRDIIHTIESLGFEASLVKKDRSASHLDHKREIRQWRRSFLVSLFFCIPVMGLMIYMMVMDHHFATLHHNQNMSKEEMINLHSSMFLERQILPGLSVMNLLSFLLCVPVQFFGGWYFYIQAYKALKHKTANMDVLIVLATTIAFAYSLIILLVAMYERAKVNPITFFDTPPMLFVFIALGRWLEHIAKGKTSEALAKLISLQATEATIVTLDSDNILLSEEQVDVELVQRGDIIKVVPGGKFPVDGRVIEGHSMVDESLITGEAMPVAKKPGSTVIAGSINQNGSLLICATHVGADTTLSQIVKLVEEAQTSKAPIQQFADKLSGYFVPFIVFVSIATLLVWIVIGFLNFEIVETYFPGYNRSISRTETIIRFAFQASITVLCIACPCSLGLATPTAVMVGTGVGAQNGILIKGGEPLEMAHKVKVVVFDKTGTITHGTPVVNQVKVLTESNRISHHKILAIVGTAESNSEHPLGTAITKYCKQELDTETLGTCIDFQVVPGCGISCKVTNIEGLLHKNNWNIEDNNIKNASLVQIDASNEQSSTSSSMIIDAQISNALNAQQYKVLIGNREWMIRNGLVINNDVNDFMTEHERKGRTAVLVAVDDELCGLIAIADTVKPEAELAIHILKSMGLEVVLMTGDNSKTARSIASQVGITKVFAEVLPSHKVAKVKQLQEEGKRVAMVGDGINDSPALAMANVGIAIGTGTDVAIEAADVVLIRNDLLDVVASIDLSRKTVKRIRINFVFALIYNLVGIPIAAGVFMPIGLVLQPWMGSAAMAASSVSVVLSSLFLKLYRKPTYESYELPARSQIGQKSPSEISVHVGIDDTSRNSPKLGLLDRIVNYSRASINSLLSDKRSLNSVVTSEPDKHSLLVGDFREDDDTAL |
| 941 | sp|P01021|BNP\_GLOBL | MFVSRLAASGLLLLALMALSLDGKPVQQWSQGRPPGPPIPRLVVQQWSQGLPPGPPIPRLVVQQWSQGLPPGPPIPPLVVQQWSQGLPPRPKIPPLVVQQWSQGLPPRPKIPPLVVQKWDPPPVSPPLLLQPHESPAGGTTALREELSLGPEAASGPAAAGADGGRSGSKAPAALHRLSKSKGASATSASASRPMRDLRTDGKQARQNWARMVNPDHHAVGGCCCGGGGGGARRLKGLVKKGVAKGCFGLKLDRIGTMSGLGC |
| 942 | sp|O46576|BMP4\_RABIT | MIPGNRMLMVVLLCQVLLGGASHASLIPETGKKKVAEIQGHAGGRRSGQSHELLRDFEATLLQMFGLRRHPQPSKSAVIPDYMRDLYRLQSGEEEEEEQMPSGGLEYPERPASRANTVRSFHHEEHLENIPGTSENSAFRFLFNLSSIPENEAISSAELRLFREQVDQGPDWERGFHRINIYEVMKPPAEAVPGHLITRLLDTRLVHHNVTRWETFDVSPAVLRWTREKQPNHGLAVEVTHFHHTRTHQGQHVRLSRSLLQGSGDWAQFRPLLVTFGHDGRGHALTRRRRAKRSLKHHPQRARKKNKNCRRHALYVDFSDVGWNDWIVAPPGYQAFYCHGDCPFPLADHFNSTNHAIVQTLVNSVNSSIPKACCVPTELSAISMLYLDEYDKVVLKNYQEMVVEGCGCR |
| 943 | sp|Q03248|BUP1\_RAT | MAGPEWQSLEQCLEKHLPPDDLSQVKRILYGKQTRNLDLPRKALEAASERNFELKGYAFGAAKEQQRCPQIVRVGLVQNRIPLPTSAPVAEQVSALHKRIEEIAEVAAMCGVNIICFQEAWNMPFAFCTREKLPWTEFAESAEDGLTTRFCQKLAKKHNMVVISPILERDRDHGGVLWNTAVVISNSGLVMGKTRKNHIPRVGDFNESTYYMEGNLGHPVFQTQFGRIAVNICYGRHHPLNWLMYSVNGAEIIFNPSATIGELSESMWPIEARNAAIANHCFTCALNRVGQEHYPNEFTSGDGKKAHHDLGYFYGSSYVAAPDGSRTPGLSRNQDGLLVTELNLNLCQQINDFWTFKMTGRLEMYARELAEAVKPNYSPNIVKEDLVLAPSSG |
| 944 | sp|P52700|BLA1\_STEMA | MRSTLLAFALAVALPAAHTSAAEVPLPQLRAYTVDASWLQPMAPLQIADHTWQIGTEDLTALLVQTPDGAVLLDGGMPQMASHLLDNMKARGVTPRDLRLILLSHAHADHAGPVAELKRRTGAKVAANAESAVLLARGGSDDLHFGDGITYPPANADRIVMDGEVITVGGIVFTAHFMAGHTPGSTAWTWTDTRNGKPVRIAYADSLSAPGYQLQGNPRYPHLIEDYRRSFATVRALPCDVLLTPHPGASNWDYAAGARAGAKALTCKAYADAAEQKFDGQLAKETAGAR |
| 945 | sp|O88738|BIRC6\_MOUSE | MVTGCGAAPPGTVTERLPSVIVLSAGRKMAAAAAEASGPSCSSAAAAAGAGAAGVSEWLVLRDGCMRCDADGLHSLSYHPALNAILAVTSRGTIKVIDGTSGATLQASALSAKPGGQVKCQYISAVDKVIFVDDYAVGCRKDLNGILLLDTALQTPVSKQDDVVQLELPVTEAQQLLSACIEKIDVSSTEGYDLFITQLKDGLKNTSHETAANHKVAKWATVTFHLPHHVLKSIASAIVNELKKINQNVAALPVASSVMDRLSYLLPSARPELGVGPGRSVDRALMYSEANRRETFTSWPHVGYRWAQPDPMAQAGFYHQPASSGDDRAMCFTCSVCLVCWEPTDEPWSEHERHSPNCPFVKGEHTQNVPLSVTLATSPAQLPSADGADRIACFGSGSCPQFLAAATKRGKICIWDVSKLMKVHLKFEINAYDPAIVQQLILSGDPSSGVDSRRPTLAWLEDSSSCSDIPKLEGDSDDLLEDSDSEEHSRSDSVTGHTSQKEAMEVSLDITALSILQQPEKLQWEIVANVLEDTVKDLEELGANPSLTNSKSEKTKEKHQEQHNIPFPCLLAGGLLTYKSPATSPISSNSHRSLDGLSRTQGESISEQGSTDNESCTNSELNSPLVRRTLPVLLLYSIKESDEKAGKIFSQMNNIMSKSLHDDGFTVPQIIEMELDNQEQLLLQDPPVTYIQQFADAAASLTSPDSEKWNSVFPKPGALVQCLRLPKFAEEETLCIDSITPCADGIHLLVGLRTCSVESLSAINQVEALNNLNKLNSALCNRRKGDLESNLAVVNGANISVIQHESPADVPEHLLIRPEQRNVVSGGYLVLYKMNYTTRIVTLEEEPVKIQHIKDPQDTITSLILLPPDILDNREDDCEEPAEEMQLASKNGIEREKKSDISTLGHLVVTTQGGYVKVLDLSNFEILAKVEPPKKEGTEEQDTFVSVIYCSGTDRLCACTKGGELHFLQIGGTCDDIDEADILVDGSLSKGIEPALEGSRPLSNPSSPGISGVELLVDQPFTLEILTSLVELTRFETLTPRFSATVPPCWVEVQQEQQQRRHPQHLHQQHHGDAAQHTRTWKLQTDSNSWDEHVFELVLPKACMVGHVDFKFVLNSNITSVPQIQVTLLKNKAPGLGKANALNIEVEHNGNPSLVDLNEEMHHMDVEESQCLRLCPFLEDHKEDILCGPVWLASGLDLSGHAGMLTLTSPKLVKGMAGGKYRSFLIHVKAVSDRGAADEMCSSGLRPVVRLPSLKQQGHKGYSLASLLAKVAAGKEKSSNVKNENAGGTRKSENLRGCDLLQEVSVTIRRFKKTSICKERVQRCAMLQFSEFHEKLLNTLCRRSDDGQVTEHAQSLVLDALCWLAGVHSNGSGSSKEGNECLLSKTRKCLSDIVRVCFFEAGRSIAHKCARFLALCISNGKCEPCQPGFGSVLLKALLDNMCFLPAAATGGSVYWYFVLLNYVKDEDLAGCSTACAALLTAVSRQLQDRLTPLEALLQTRYGLYSSPFDPVLFDLEMSGSSWKTVYSSSTAVQSDEIDLSDVLSGNGRVSSCTAAEGSFTSLTGLLEVEPLHFTCVSTSDGTRIERDDASTFTVSSFGVPPAVGGLSSGTVGEASTALSSAAQVALQSLSHAMASAEQQLQVLQEKQQQLLKLQQQKAKLEAKLHQTTAAAAAAASAAAAAAAGPVHNAVPSNPVAAPGFFIHPSDVIPPTPKTTPLFMTPPLTPPNEAVSVVINAELAQLFPGSVIDPPAVNLAAQNKNSSKSRMNPLGSGLALAISHASHFLQPPPHQSIIIERMHSGARRFVTLDFGRPILLTDVLIPTCGDLASLSIDIWTLGEEVDGRRLVVATDISTHSLILHDLIPPPVCRFMKITVIGRYGSTNARAKIPLGFYYGHSYILPWESELKLMHDPLRGEGESASQPEIDQHLAMMVALQEDIQCRYNLACHRLEALLQSIDLPPLNSANNAQYFLRKPDKAVEEDSRVFSAYQDCIQLQLQLNLAHNAVQRLKVAIGASRKLLNETSGPEDLIQTSSTEQLRTIVRYLLDTLLSLLHSSNGHSVPAVLQSTFHAQACEELFKHLCISGTPKIRLHTGLLLVQLCGGERWWGQFLSNVLQELYNSEQLLIFPQDRVFMLLSCIGQRSLSNSGVLESLLNLLDNLLSPLQPELSMHRRTEGVLDIPMISWVVMLVSRLLDYVATVEDEAAAAKKPLNGKDRERFLTGNQWSFINNNLHTQNLNRSSKGGSSLDRLYSRKIRKQLVHHKQQLNLLKAKQKALVEQMEKEKIQSNKGSSYKLLVEQAKLKQATSKHFKDLIRLRRTAEWSRSNLDTEVTTTKESPEIEPLPFTLAHDRCISVVQKLVLFLLSMDFTCHADLLLFVCKVLARIANATRPTIHLCEIVNEPQLERLLLLLVGTDFNRGDISWGGAWAQYSLTCMLQDILAGELLAPVAAEAMEECTVSEDVGATAGDSDDSLQQSPAQLLETIDEPLTHEIAGTPPLSSLEKDKEIDLELLQDLMEVDIDPLDIDLEKDPLAAKVFKPISSTWYDYWGADYGTYNYNPYIGGLGMPVAKPPSNTEKNGSQTVSVSVSQALDARLEVGLEQQAELMLKMMSTLEADSILQALTNTSPTFSQSPTGTDDSLLGNLQPANQNSQLMIQLSSVPMLNVCFNKLFSMLQVHHVQLESLLQLWLTLSLNSSSSGNKENGADIFLYNANRIPVISLNQASIASFLTVLAWYPNTLLRTWCLVLHSLTLMTNMQLNSGSSSSIGIQETTAHLLVSDPNLIHVLVKFLSGTSPHGTNQHSPQVGPTATQAMQEFLTRLQVHLSSTCPQIFSELLLKLIHILSTERGAFQTGQGPLDAQVKLLEFTLEQNFEVVSVSTISAVIESVTFLVHHYITCSDKVMSRSGSDSSAGARACFGGLFANLIRPGDAKAVCGEMTRDQLMFDLLKLVNILVQLPLSSNREYSARVSVTTNTTDSVSDEEKVSGGKDVNGSSASTPGSPACVADLVLANQQIMSQILSALGLCNSSAMAMIIGASGLHLTKHENFHGGLDAISVGDGLFTILTTLSKKASTVHMMLQPILTYMACGYMGRQGSLATCQLSEPLLWFILRVLDTSDALKAFHDMGGVQLICNNMVTSTRAIVNTARSMVSTIMKFLDSGPNKAVDSTLKTRILASEPDNAEGIHNFAPLGTITSSSPTAQPAEVLLQATPPHRRARSAAWSYIFLPEEAWCDLTIHLPSAVLLKEIHIQPHLASLATCPSSVSVEVSADGVNMLPLSTPVVTSGLTYIKIQLVKAEVASAVCLRLHRPRDASTLGLSQIKLLGLTAFGTTSSATVNNPFLPSEDQVSKTSIGWLRLLHHCLTHISDLEGMMASAAAPTANLLQTCAALLMSPYCGMHSPNIEVVLVKIGLQSTRIGLKLIDILLRNCAASGSDPTDLNSPLLFGRLNGLSSDSTIDILYQLGTTQDPGTKDRIQALLKWVSDSAKMAALKRSGRMNYMCPSSSAVEYGLLMPSPSHLHCVAAILWHSYELLVEYDLPALLDRELFELLFNWSMSLPCNVVLKKAVDSLLCSMCHIHPNYFSLLMGWMGIIPPPVQCHHRLSMTDDSKKQDLSSSLTDDSKNAQAPLSLTESHLATLASSSQSPEAIKQLLDSGLPSLLVRSLASFCFSHISYSESIAQSVDNSQDKLRRHHVPQHCNKMPITADLVAPILRFLTEVGNSHIMKDWLGGSEVNPLWTALLFLLCHSGSTAGGHNLGAQQSSTRSASHSSATTTVLTTQQRTAIENATVAFFLQCISCHPNNQKLMAQVLCELFQTAPQRGSLPTSGNISGFVRRLFLQLMLEDEKVTMFLQSPCPLYKGRINATSHVIQHPMFGAGHKFRTLHLPVSTTLSDVLDRVSDTPSITAKLISEQKDDKEKKNHEEKEKVKAENGFQDNYSVVVASGLKSQSKRAMASTPPRPPSRRGRTIPDKIGSASSSADAASKIITVPVFHLFHRLLAGQPLPAEMTLAQLLTLLYDRKLPQGYRSIDLTVKLGSKVITDPSLSKTDSFKRLHPEKDHGDLVGSCPEDEALTPSDECMDGVLDESLLETCPIQSPLQVFAGMGGLALIAERLPMLYPEVIQQVSAPVIASTTQEKPKDSDQFEWVTIEQSGELVYEAPETIAAEPPPVKSAVQATSPIPAHSLAAFGLFLRLPGYAEVLLKERKHAQCLLRLVLGVTDDGEGSHILQSPSANVLPTLPFHVLRSLFSATPLTTDDGVLLRRMALEIGALHLILVCLSALSHHAPRVPNSSLSQTEPQVSNSHNPTSAEEQQLYWAKGTGFGTGSTASGWDVEQALTKQRLEEEHVTCLLQVLASYINPMSGAVNGEAQASPESRAQNSSALPSVLLELLSQSCLIPAMSSYLRNDSVLDMARHVPLYRALLELLRAIASCTSMVPLLLPLSTENGEEEEDEQSECQTSVGTLLAKMKTCVDTYTNRLRSKRENVKAGVKPDAPDQEPEGLALLVPDIQRTAEIVHAATANLRQANQEKKLGEYSKKVVMKPKPLSVLKSLEEKYVAVMKKLQFDTFEMVSEDDDGKLGFKVNYHYMSQVKNANDANSAARARRLAQEAVTLSTSLPLSSSSSVFVRCDEERLDIMKVLITGPADTPYANGCFEFDVYFPQDYPSSPPLVNLETTGGHSVRFNPNLYNDGKVCLSILNTWHGRPEEKWNPQTSSFLQVLVSVQSLILVAEPYFNEPGYERSRGTPSGTQSSREYDGNIRQATVKWAMLEQIRNPSPCFKEVIHKHFYLKRIELMAQCEEWIADIQQYSSDKRVGRTMSHHAAALKRHTAQLREELLKLPCPEGLDPDIEDASPVCRATAGAEDTLTHDHVNPSSSKDLPSDFQL |
| 946 | sp|F4HXZ1|BRO1\_ARATH | MASSSLSNLMLAIHEKKTSSVDLYRPLRNYVTFTYSEREAQLIDDDLETLKQLRSDIERVSDPSPAARRDLLISYYKVLCLVETRFPISPDKDHVNAVSFVWYDAFKQKHKATQQNIHLEKAAVLFNLGASYSQIGLGHDRTTVDGRRQASHAFMAAAGAFAHLRDNESIKATIGPSTTVDVSVECVGMLERLMVAQAQECVFENTIAKGSTPGVSAKIARQVGIFYEEALSALIISPLKDHFDKGWISHVQLKAALFYGEACFRYGKELHEKEEIAEEIARLRSGASRLAEAKKSSRGAPAQLIEAMNTLESSINGNLDRAVKENDRVYLMRVPSPSSLSPLPAFSMVKPMNMTDILDASKEKMFSILVPDSSAKALSRYTEMVDDVIRTQAERLQQASELTRVRLKEMDLPDSILAVDGNSALPVDLKEDVEAVQISGGPAGLEAELQQLRDLKRVNQELLVHTEELLQKEATEDSQFRSQFGTRWTRPQSSTLTKNLQDRLNRFAANLKQAGESDVKIERSVRDNSALMSILDRRPIESAVPTLARPIMSLDATEDAIVGTLKQSLRQLENLGAQRAGLEDMLKEMKRKDDILPKLMTITGSYEDMFRKEISKYDHICEDISQNIEVQEQLLMQIQAQNEEFSTIFNLEDYKASKEKCYKQIQAAIMKYREIKENINEGLKFYVTLQDAITNVKQQCSDFVMTRSIQCRDMIEDVQRQMSGLSFQDHRSSGPYPSVHQPTASSPPPPPETQNPSHPHPHAPYYRPPEQMSRPGYSIPPYGPPPPYHTPHGQAPQPYPPQAQQQPHPSWQQGSYYDPQGQQPRPPYPGQSPYQPPHQGGGYYRQ |
| 947 | sp|Q5T5Y3|CAMP1\_HUMAN | MVDASGRAAAEGWRKMEAPPDGAADLVPLDRYDAARAKIAANLQWICAKAYGRDNIPEDLRDPFYVDQYEQEHIKPPVIKLLLSSELYCRVCSLILKGDQVAALQGHQSVIQALSRKGIYVMESDDTPVTESDLSRAPIKMSAHMAMVDALMMAYTVEMISIEKVVASVKRFSTFSASKELPYDLEDAMVFWINKVNLKMREITEKEVKLKQQLLESPAHQKVRYRREHLSARQSPYFPLLEDLMRDGSDGAALLAVIHYYCPEQMKLDDICLKEVTSMADSLYNIRLLREFSNEYLNKCFYLTLEDMLYAPLVLKPNVMVFIAELFWWFENVKPDFVQPRDVQELKDAKTVLHQKSSRPPVPISNATKRSFLGSPAAGTLAELQPPVQLPAEGCHRHYLHPEEPEYLGKGTAAFSPSHPLLPLRQKQQKSIQGEDIPDQRHRSNSLTRVDGQPRGAAIAWPEKKTRPASQPTPFALHHAASCEVDPSSGDSISLARSISKDSLASNIVNLTPQNQPHPTATKSHGKSLLSNVSIEDEEEELVAIVRADVVPQQADPEFPRASPRALGLTANARSPQGQLDTSESKPDSFFLEPLMPAVLKPAKEKQVITKEDERGEGRPRSIVSRRPSEGPQPLVRRKMTGSRDLNRTFTPIPCSEFPMGIDPTETGPLSVETAGEVCGGPLALGGFDPFPQGPSTDGFFLHVGRADEDTEGRLYVSCSKSPNSHDSEPWTLLRQDSDSDVVDIEEAEHDFMGEAHPVVFSRYIGEEESAKLQEDMKVKEHEDKDDASGRSSPCLSTASQMSSVSMASGSVKMTSFAERKLQRLNSCETKSSTSSSQKTTPDASESCPAPLTTWRQKREQSPSQHGKDPASLLASELVQLHMQLEEKRRAIEAQKKKMEALSARQRLKLGKAAFLHVVKKGKAEAAPPLRPEHFAKEYSQHNGEDCGDAVSKTEDFLVKEEQREELLHEPQDVDKESLAFAQQHKAKDPVALHELERNKVISAALLEDTVGEVVDVNECDLSIEKLNETISTLQQAILKISQQQEQLLMKSPTVPVPGSKNNSQDHKVKAPVHFVEPLSPTGVAGHRKAPRLGQGRNSRSGRPAELKVPKDRPQGSSRSKTPTPSVETLPHLRPFPASSHPRTPTDPGLDSALEPSGDPHGKCLFDSYRLHDESNQRTLTLSSSKDANILSEQMSLKEVLDASVKEVGSSSSDVSGKESVPVEEPLRSRASLIEVDLSDLKAPDEDGELVSLDGSADLVSEGDQKPGVGFFFKDEQKAEDELAKKRAAFLLKQQRKAEEARVRKQQLEAEVELKRDEARRKAEEDRVRKEEEKARRELIKQEYLRRKQQQILEEQGLGKPKSKPKKPRPKSVHREESCSDSGTKCSSTPDNLSRTQSGSSLSLASAATTEPESVHSGGTPSQRVESMEALPILSRNPSRSTDRDWETASAASSLASVAEYTGPKLFKEPSSKSNKPIIHNAISHCCLAGKVNEPHKNSILEELEKCDANHYIILFRDAGCQFRALYCYYPDTEEIYKLTGTGPKNITKKMIDKLYKYSSDRKQFNLIPAKTMSVSVDALTIHNHLWQPKRPAVPKKAQTRK |
| 948 | sp|O74856|CAF1\_SCHPO | MTAMNSNFSYPALGVDGISSQISPIRDVWSTNLQQEMNLIMSLIERYPVVSMDTEFPGVVARPLGVFKSSDDYHYQTLRANVDSLKIIQIGLALSDEEGNAPVEACTWQFNFTFNLQDDMYAPESIELLTKSGIDFKKHQEVGIEPADFAELLIGSGLVLQEEVTWITFHSGYDFAYLLKAMTQIPLPAEYEEFYKILCIYFPKNYDIKYIMKSVLNNSKGLQDIADDLQIHRIGPQHQAGSDALLTARIFFEIRSRYFDGSIDSRMLNQLYGLGSTGSVLWHNNSSTPQIQFRDLPGAHPSPTPSNAGIPTTLTNTSSAPNFANSTFRFPPRVV |
| 949 | sp|Q68A92|CCL3\_CANLF | MKVPGAALAVLLCTMSLCSQVFSPFGADTPIACCFSYVSKQIPRKFIVDCFETSSQCSKPGIIFETRKGRQACANPSEAWVQEYVADLKLKA |
| 950 | sp|P49662|CASP4\_HUMAN | MAEGNHRKKPLKVLESLGKDFLTGVLDNLVEQNVLNWKEEEKKKYYDAKTEDKVRVMADSMQEKQRMAGQMLLQTFFNIDQISPNKKAHPNMEAGPPESGESTDALKLCPHEEFLRLCKERAEEIYPIKERNNRTRLALIICNTEFDHLPPRNGADFDITGMKELLEGLDYSVDVEENLTARDMESALRAFATRPEHKSSDSTFLVLMSHGILEGICGTVHDEKKPDVLLYDTIFQIFNNRNCLSLKDKPKVIIVQACRGANRGELWVRDSPASLEVASSQSSENLEEDAVYKTHVEKDFIAFCSSTPHNVSWRDSTMGSIFITQLITCFQKYSWCCHLEEVFRKVQQSFETPRAKAQMPTIERLSMTRYFYLFPGN |
| 951 | sp|Q9R1T3|CATZ\_RAT | MASSGSVQQLRLVLLMLLLAGAARASLYFRPGQTCYRPLHRDHLALLGRRTYPRPHEYLSPADLPKNWDWRNVNGVNYASVTRNQHIPQYCGSCWAHGSTSALADRINIKRKGAWPSTLLSVQNVIDCGNAGSCEGGNDLPVWEYAHKHGIPDETCNNYQAKDQECDKFNQCGTCTEFKECHTIQNYTLWRVGDYGSLSGREKMMAEIYANGPISCGIMATERMSNYTGGIYTEYQNQAIINHIISVAGWGVSNDGIEYWIVRNSWGEPWGERGWMRIVTSTYKGGTGSSYNLAIEEACTFGDPIV |
| 952 | sp|P51878|CASP5\_HUMAN | MAEDSGKKKRRKNFEAMFKGILQSGLDNFVINHMLKNNVAGQTSIQTLVPNTDQKSTSVKKDNHKKKTVKMLEYLGKDVLHGVFNYLAKHDVLTLKEEEKKKYYDTKIEDKALILVDSLRKNRVAHQMFTQTLLNMDQKITSVKPLLQIEAGPPESAESTNILKLCPREEFLRLCKKNHDEIYPIKKREDRRRLALIICNTKFDHLPARNGAHYDIVGMKRLLQGLGYTVVDEKNLTARDMESVLRAFAARPEHKSSDSTFLVLMSHGILEGICGTAHKKKKPDVLLYDTIFQIFNNRNCLSLKDKPKVIIVQACRGEKHGELWVRDSPASLALISSQSSENLEADSVCKIHEEKDFIAFCSSTPHNVSWRDRTRGSIFITELITCFQKYSCCCHLMEIFRKVQKSFEVPQAKAQMPTIERATLTRDFYLFPGN |
| 953 | sp|P42753|CCD31\_ARATH | MAIRKEEESREEQSNSFLLDALYCEEEKWDDEGEEVEENSSLSSSSSPFVVLQQDLFWEDEDLVTLFSKEEEQGLSCLDDVYLSTDRKEAVGWILRVNAHYGFSTLAAVLAITYLDKFICSYSLQRDKPWMLQLVSVACLSLAAKVEETQVPLLLDFQVEETKYVFEAKTIQRMELLILSTLEWKMHLITPISFVDHIIRRLGLKNNAHWDFLNKCHRLLLSVISDSRFVGYLPSVVAAATMMRIIEQVDPFDPLSYQTNLLGVLNLTKEKVKTCYDLILQLPVDRIGLQIQIQSSKKRKSHDSSSSLNSPSCVIDANPFNSDESSNDSWSASSCNPPTSSSSPQQQPPLKKMRGAEENEKKKPILHLPWAIVATP |
| 954 | sp|Q91X79|CELA1\_MOUSE | MLRFLVFASLVLCGHSTEDVPETDARVVGGAEARRNSWPSQISLQYQYGGSWHHTCGGTLIRSNWVMTAAHCVDSPMTYRVVVGEHNLSQNDGTEQYVNVQKIVSHPYWNKNNVVAGYDIALLRLAKSVTLNNYVQLGVLPREGTILANNSPCYITGWGRTRTNGELAQTLQQAYLPSVSYSICSSSSYWGSSVKNTMVCAGGDGVRSGCQGDSGGPLHCMVNGQYAVHGVTSFVSSMGCNVARKPTVFTRVSAYISWMNNVIASN |
| 955 | sp|P49450|CENPA\_HUMAN | MGPRRRSRKPEAPRRRSPSPTPTPGPSRRGPSLGASSHQHSRRRQGWLKEIRKLQKSTHLLIRKLPFSRLAREICVKFTRGVDFNWQAQALLALQEAAEAFLVHLFEDAYLLTLHAGRVTLFPKDVQLARRIRGLEEGLG |
| 956 | sp|O14647|CHD2\_HUMAN | MMRNKDKSQEEDSSLHSNASSHSASEEASGSDSGSQSESEQGSDPGSGHGSESNSSSESSESQSESESESAGSKSQPVLPEAKEKPASKKERIADVKKMWEEYPDVYGVRRSNRSRQEPSRFNIKEEASSGSESGSPKRRGQRQLKKQEKWKQEPSEDEQEQGTSAESEPEQKKVKARRPVPRRTVPKPRVKKQPKTQRGKRKKQDSSDEDDDDDEAPKRQTRRRAAKNVSYKEDDDFETDSDDLIEMTGEGVDEQQDNSETIEKVLDSRLGKKGATGASTTVYAIEANGDPSGDFDTEKDEGEIQYLIKWKGWSYIHSTWESEESLQQQKVKGLKKLENFKKKEDEIKQWLGKVSPEDVEYFNCQQELASELNKQYQIVERVIAVKTSKSTLGQTDFPAHSRKPAPSNEPEYLCKWMGLPYSECSWEDEALIGKKFQNCIDSFHSRNNSKTIPTRECKALKQRPRFVALKKQPAYLGGENLELRDYQLEGLNWLAHSWCKNNSVILADEMGLGKTIQTISFLSYLFHQHQLYGPFLIVVPLSTLTSWQREFEIWAPEINVVVYIGDLMSRNTIREYEWIHSQTKRLKFNALITTYEILLKDKTVLGSINWAFLGVDEAHRLKNDDSLLYKTLIDFKSNHRLLITGTPLQNSLKELWSLLHFIMPEKFEFWEDFEEDHGKGRENGYQSLHKVLEPFLLRRVKKDVEKSLPAKVEQILRVEMSALQKQYYKWILTRNYKALAKGTRGSTSGFLNIVMELKKCCNHCYLIKPPEENERENGQEILLSLIRSSGKLILLDKLLTRLRERGNRVLIFSQMVRMLDILAEYLTIKHYPFQRLDGSIKGEIRKQALDHFNADGSEDFCFLLSTRAGGLGINLASADTVVIFDSDWNPQNDLQAQARAHRIGQKKQVNIYRLVTKGTVEEEIIERAKKKMVLDHLVIQRMDTTGRTILENNSGRSNSNPFNKEELTAILKFGAEDLFKELEGEESEPQEMDIDEILRLAETRENEVSTSATDELLSQFKVANFATMEDEEELEERPHKDWDEIIPEEQRKKVEEEERQKELEEIYMLPRIRSSTKKAQTNDSDSDTESKRQAQRSSASESETEDSDDDKKPKRRGRPRSVRKDLVEGFTDAEIRRFIKAYKKFGLPLERLECIARDAELVDKSVADLKRLGELIHNSCVSAMQEYEEQLKENASEGKGPGKRRGPTIKISGVQVNVKSIIQHEEEFEMLHKSIPVDPEEKKKYCLTCRVKAAHFDVEWGVEDDSRLLLGIYEHGYGNWELIKTDPELKLTDKILPVETDKKPQGKQLQTRADYLLKLLRKGLEKKGAVTGGEEAKLKKRKPRVKKENKVPRLKEEHGIELSSPRHSDNPSEEGEVKDDGLEKSPMKKKQKKKENKENKEKQMSSRKDKEGDKERKKSKDKKEKPKSGDAKSSSKSKRSQGPVHITAGSEPVPIGEDEDDDLDQETFSICKERMRPVKKALKQLDKPDKGLNVQEQLEHTRNCLLKIGDRIAECLKAYSDQEHIKLWRRNLWIFVSKFTEFDARKLHKLYKMAHKKRSQEEEEQKKKDDVTGGKKPFRPEASGSSRDSLISQSHTSHNLHPQKPHLPASHGPQMHGHPRDNYNHPNKRHFSNADRGDWQRERKFNYGGGNNNPPWGSDRHHQYEQHWYKDHHYGDRRHMDAHRSGSYRPNNMSRKRPYDQYSSDRDHRGHRDYYDRHHHDSKRRRSDEFRPQNYHQQDFRRMSDHRPAMGYHGQGPSDHYRSFHTDKLGEYKQPLPPLHPAVSDPRSPPSQKSPHDSKSPLDHRSPLERSLEQKNNPDYNWNVRKT |
| 957 | sp|P06731|CEAM5\_HUMAN | MESPSAPPHRWCIPWQRLLLTASLLTFWNPPTTAKLTIESTPFNVAEGKEVLLLVHNLPQHLFGYSWYKGERVDGNRQIIGYVIGTQQATPGPAYSGREIIYPNASLLIQNIIQNDTGFYTLHVIKSDLVNEEATGQFRVYPELPKPSISSNNSKPVEDKDAVAFTCEPETQDATYLWWVNNQSLPVSPRLQLSNGNRTLTLFNVTRNDTASYKCETQNPVSARRSDSVILNVLYGPDAPTISPLNTSYRSGENLNLSCHAASNPPAQYSWFVNGTFQQSTQELFIPNITVNNSGSYTCQAHNSDTGLNRTTVTTITVYAEPPKPFITSNNSNPVEDEDAVALTCEPEIQNTTYLWWVNNQSLPVSPRLQLSNDNRTLTLLSVTRNDVGPYECGIQNKLSVDHSDPVILNVLYGPDDPTISPSYTYYRPGVNLSLSCHAASNPPAQYSWLIDGNIQQHTQELFISNITEKNSGLYTCQANNSASGHSRTTVKTITVSAELPKPSISSNNSKPVEDKDAVAFTCEPEAQNTTYLWWVNGQSLPVSPRLQLSNGNRTLTLFNVTRNDARAYVCGIQNSVSANRSDPVTLDVLYGPDTPIISPPDSSYLSGANLNLSCHSASNPSPQYSWRINGIPQQHTQVLFIAKITPNNNGTYACFVSNLATGRNNSIVKSITVSASGTSPGLSAGATVGIMIGVLVGVALI |
| 958 | sp|Q3L8U1|CHD9\_HUMAN | MTDPMMDFFDDANLFGETLEGLSDDAFVQPGPVSLVDELNLGAEFEPLHIDSLNHVQGTPTHQKMTDFEQLNQFDSIKFHHVNQSFGSPAEHVLSPHSQFNCSPIHPQNQPNGLFPDVSDGSPMWGHQTATTISNQNGSPFHQQGHSHSMHQNKSFVAHHDFALFQANEQQTQCTSLRSQQNRNNLNPGQNSLSQSKNFMNVSGPHRVNVNHPPQMTNASNSQQSISMQQFSQTSNPSAHFHKCSSHQEGNFNGPSPNMTSCSVSNSQQFSSHYSFSSNHISPNSLLQSSAVLASNHTNQTLSDFTGSNSFSPHRGIKQESTQHILNPNTSLNSNNFQILHSSHPQGNYSNSKLSPVHMNFPDPVDSGTQMGHFNDHVETNGFSSLEENLLHQVESQTEPFTGLDPEDLLQEGLLPHFDESTFGQDNSSHILDHDLDRQFTSHLVTRPSDMAQTQLQSQARSWHSSFSNHQHLHDRNHLCLQRQPPSSKKSDGSGTYTKLQNTQVRVMSEKKQRKKVESESKQEKANRIISEAIAKAKERGERNIPRVMSPENFPTASVEGKEEKKGRRMKSKPKDKDSKKTKTCSKLKEKTKIGKLIITLGKKQKRKNESSDEISDAEQMPQHTLKDQDSQKRRSNRQIKRKKYAEDIEGKQSEEEVKGSMKIKKNSAPLPGEQPLQLFVENPSEEDAAIVDKILSSRTVKKEISPGVMIDTEEFFVKYKNYSYLHCEWATEEQLLKDKRIQQKIKRFKLRQAQRAHFFADMEEEPFNPDYVEVDRVLEVSFCEDKDTGEPVIYYLVKWCSLPYEDSTWELKEDVDLAKIEEFEQLQASRPDTRRLDRPPSNIWKKIDQSRDYKNGNQLREYQLEGLNWLLFNWYNRRNCILADEMGLGKTIQSITFLYEILLTGIRGPFLIIAPLSTIANWEREFRTWTDINVVVYHGSLISRQMIQQYEMYFRDSQGRIIRGAYRFQAIITTFEMILGGCGELNAIEWRCVIIDEAHRLKNKNCKLLEGLKLMNLEHKVLLTGTPLQNTVEELFSLLHFLEPLRFPSESTFMQEFGDLKTEEQVQKLQAILKPMMLRRLKEDVEKKLAPKEETIIEVELTNIQKKYYRAILEKNFSFLSKGAGQTNVPNLVNTMMELRKCCNHPYLIKGAEEKILGEFRDTYNPAASDFHLQAMIQSAGKLVLIDKLLPKMKAGGHKVLIFSQMVRCLDILEDYLIHKRYLYERIDGRVRGNLRQAAIDRFSKPDSDRFVFLLCTRAGGLGINLTAADTCIIFDSDWNPQNDLQAQARCHRIGQNKAVKVYRLVTRNSYEREMFDRASLKLGLDKAVLQSMSGRESNVGGIQQLSKKEIEDLLRRGAYGAIMEEEDEGSKFCEEDIDQILLRRTKTITIESEGRGSTFAKASFVASGNRTDISLDDPNFWQKWAKKAEIDIEAISGRNSLVIDTPRIRKQTRPFSATKDELAELSEAESEGDEKPKLRRPCDRSNGYGRTECFRVEKNLLVYGWGRWREILSHGRFKRQLNEHDVEIICRALLAYCLVHYRGDEKIKGFIWDLITPTEDGQTRELQNHLGLSAPVPRGRKGKKVKTQTSSFDIQKAEWLRKYNPEQLLQDEGYKKHIKHHCNKVLLRVRMLYYLKQEVIGNECQKVFDGVDASDIDVWVPEPDHSEVPAEWWDFDADKSLLIGVFKHGYEKYNTIRADPALCFLERVGKPDEKAVAAEQRANDYMDGDVEDPEYKPAPAIFKDDIEDDVSSPGDLVIADGDGQLMEGDKVYWPTQSALTTRLRRLITAYQRTNKNRQIQQIQPTFSVPTSVMQPIYEEATLNPKMAAKIERQQRWTRREEADFYRVVSTFGVVFDPDRGQFDWTKFRAMARLHKKTDDSLEKYLYAFMSMCRRVCRLPSKEELVDPNIFIQPITEERASRTLYRIELLRKVREQALRHPQLFERLKLCHPNPDLPVWWECGPHDRDLLIGAAKHGVSRTDYHILRDPELSFMAAQRNYSQSKMAHSRTSTPLLQQYQVALSASPLTSLPRLLDAKGIILEEMKVKSENLKEEPQSSEEESMSSVETRTLIKSEPVSPKNGVLPQATGDQKSGGKCETDRRMVAARTEPLTPNPASKKPRVHKRGSESSSDSDSDSERSSCSSRSSSSSSSSSCSHSRSGSSSSSSSSCSSASSSSSSSTSSSSSSSSSSSEESDSDEEEAQKRESTTHMKAYDEESVASLSTTQDETQDSFQMNNGTPESAYILQGGYMLAASYWPKDRVMINRLDSICQTVLKGKWPSARRSYDANTVASFYTTKLLDSPGAATEYSDPSVPTPPGAGVKEEHDQSTQMSKVKKHVREKEFTVKIKDEGGLKLTFQKQGLAQKRPFDGEDGALGQQQYLTRLRELQSASETSLVNFPKSIPVSGTSIQPTLGANGVILDNQPIVKKRRGRRKNVEGVDIFFFNRNKPPNHVSLGLTSSQISTGINPALSYTQPQGIPDTESPVPVINLKDGTRLAGDDAPKRKDLEKWLKEHPGYVEDLGAFIPRMQLHEGRPKQKRHRCRNPNKLDVNSLTGEERVQLINRRNARKVGGAFAPPLKDLCRFLKENSEYGVAPEWGDVVKQSGFLPESMYERILTGPVVREEVSRRGRRPKSGIAKATAAAAAASATSVSGNPLLANGLLPGVDLTTLQALQQNLQNLQSLQVTAGLMGMPTGLPSGGEAKNMAAMFPMLLSGMAGLPNLLGMGGLLTKPTESGTEDKKGSDSKESEGKTERTESQSSENGGENSVSSSPSTSSTAALNTAAAANPLALNPLLLSNILYPGMLLTPGLNLHIPTLSQSNTFDVQNKNSDLGSSKSVEVKEEDSRIKDQEDKGGTEPSPLNENSTDEGSEKADASSGSDSTSSSSEDSDSSNED |
| 959 | sp|P24941|CDK2\_HUMAN | MENFQKVEKIGEGTYGVVYKARNKLTGEVVALKKIRLDTETEGVPSTAIREISLLKELNHPNIVKLLDVIHTENKLYLVFEFLHQDLKKFMDASALTGIPLPLIKSYLFQLLQGLAFCHSHRVLHRDLKPQNLLINTEGAIKLADFGLARAFGVPVRTYTHEVVTLWYRAPEILLGCKYYSTAVDIWSLGCIFAEMVTRRALFPGDSEIDQLFRIFRTLGTPDEVVWPGVTSMPDYKPSFPKWARQDFSKVVPPLDEDGRSLLSQMLHYDPNKRISAKAALAHPFFQDVTKPVPHLRL |
| 960 | sp|P28648|CD63\_RAT | MAVEGGMKCVKFLLYVLLLAFCACAVGLIAIGVAVQVVLKQAITHETTAGSLLPVVIIAVGAFLFLVAFVGCCGACKENYCLMITFAIFLSLIMLVEVAVAIAGYVFRDQVKSEFSKSFQKQMQNYLTDNKTATILDKLQKENKCCGASNYTDWERIPGMAKDRVPDSCCINITVGCGNDFKESTIHTQGCVETIAAWLRKNVLLVAGAALGIAFVEVLGIIFSCCLVKSIRSGYEVM |
| 961 | sp|Q6P3G4|CCSAP\_DANRE | MVTKRIRSEYMKKFKDPKWDTYAKCYEDLLKYRLSRRLLEQAHKPWFWGEWGSETASSGKSTPLSRNKVEPLKTLDEKPERSACVTPEPAAEAETQAAEVQDREHADTNLVPCDAEVAHPEGEEVRGKERSPAVNPDSDTQIQNMSKSKRRSSHKYTRSKVKPQAPKDPDKENRHPFALYGAGEKQTDMASKKTHNVGPAASTAEIHESALRAKTRREVEKQIKRFDKQRARSADLEKSRNKIIPDFNPWMTEYMRCFSARSR |
| 962 | sp|P00546|CDK1\_YEAST | MSGELANYKRLEKVGEGTYGVVYKALDLRPGQGQRVVALKKIRLESEDEGVPSTAIREISLLKELKDDNIVRLYDIVHSDAHKLYLVFEFLDLDLKRYMEGIPKDQPLGADIVKKFMMQLCKGIAYCHSHRILHRDLKPQNLLINKDGNLKLGDFGLARAFGVPLRAYTHEIVTLWYRAPEVLLGGKQYSTGVDTWSIGCIFAEMCNRKPIFSGDSEIDQIFKIFRVLGTPNEAIWPDIVYLPDFKPSFPQWRRKDLSQVVPSLDPRGIDLLDKLLAYDPINRISARRAAIHPYFQES |
| 963 | sp|Q8VHP6|CDHR1\_MOUSE | MRRGPRVALVLGLLRIYLAQANFAPHFFDNGVGSTNGNMALFSLPEDTPVGSHVYTLNGTDPEGDPISYHISFDPSTRSVFSVDPNFGNITLVEELDREREDEIEAIISISDGLNLVAEKVVILVTDANDEAPRFIQEPYIIRVPENIPAGSSIFKVQAEDKDTGSGGSVTYSLQNLHSSKFSMDRHSGVLRLQAGATLDYEKSRAHYITVIAKDGGGRLRGADMVFSATTTVTINVEDVQDTAPIFVGTPYYGYVYEDTLPGSEVLTVVAIDGDRGKPNHILYRLLNESDGIFEINETSGAISVLQSPALLRREVYELHVQVTEVNSPGSPAAQATVPVTIRIVDLNNHPPTFYGESGPQNKFELSMFEHPPQGEILRGLKITVNDSDQGANAKFNLRLVGPGGIFRVVPQTVLNEAQVTIIVENSAAIDFEKSKLLTFKLLAIEVNTPEKFSSTADIVIQLLDTNDNVPKFTSHYYIARIPENAPGGSNVVAVTAVDPDTGPWGKVHYSIYGTGSDLFLIHPSTGLIYTQPWASLDAEGTSRYNFYVKAEDMDGRYSLAEVFVTLLDVNDHYPQFVQSVQEKTMVLGTPLKIEATDQDAEEPNNLVDYSITRAEPVNVFDIDAHTGEIRLKNSIRSLEALHNITPSGDYSWSLQVQAKDRGSPSFSTTALLKIDITDTERLSRGSMAAFLIQTKDNPMKAVGVLAGVMAIVVAITVLISTATFWRNKKSNKVLPVRRVLRRRPSPAPHTVRIEWLKFRRAKAATKFILKEDSPNENCNNSRVGVMVPPRAPALPPPPKMASSMVAQQTVPTVSGSLTPQPSPQLPTPKTLGGPVQSSLVSELKQKFEKKSLDNKAYI |
| 964 | sp|Q0VF96|CGNL1\_HUMAN | MELYFGEYQHVQQEYGVHLRLASDDTQKSRSSQNSKAGSYGVSIRVQGIDGHPYIVLNNTERCLAGTSFSENGPPFPPPVINNLPLHSSNGSVPKENSEELQLPENPYAQPSPIRNLKQPLLHEGKNGVLDRKDGSVKPSHLLNFQRHPELLQPYDPEKNELNLQNHQPSESNWLKTLTEEGINNKKPWTCFPKPSNSQPTSPSLEDPAKSGVTAIRLCSSVVIEDPKKQTSVCVNVQSCTKERVGEEALFTSGRPLTAHSPHAHPETKKTRPDVLPFRRQDSAGPVLDGARSRRSSSSSTTPTSANSLYRFLLDDQECAIHADNVNRHENRRYIPFLPGTGRDIDTGSIPGVDQLIEKFDQKPGLQRRGRSGKRNRINTDDRKRSRSVDSAFPFGLQGNSEYLIEFSRNLGKSSEHLLRPSQVCPQRPLSQERRGKQSVGRTFAKLQGAAHGASCAHSRPPQPNIDGKVLETEGSQESTVIRAPSLGAQSKKEEEVKTATATLMLQNRATATSPDSGAKKISVKTFPSASNTQATPDLLKGQQELTQQTNEETAKQILYNYLKEGSTDNDDATKRKVNLVFEKIQTLKSRAAGSAQGNNQACNSTSEVKDLLEQKSKLTIEVAELQRQLQLEVKNQQNIKEERERMRANLEELRSQHNEKVEENSTLQQRLEESEGELRKNLEELFQVKMEREQHQTEIRDLQDQLSEMHDELDSAKRSEDREKGALIEELLQAKQDLQDLLIAKEEQEDLLRKRERELTALKGALKEEVSSHDQEMDKLKEQYDAELQALRESVEEATKNVEVLASRSNTSEQDQAGTEMRVKLLQEENEKLQGRSEELERRVAQLQRQIEDLKGDEAKAKETLKKYEGEIRQLEEALVHARKEEKEAVSARRALENELEAAQGNLSQTTQEQKQLSEKLKEESEQKEQLRRLKNEMENERWHLGKTIEKLQKEMADIVEASRTSTLELQNQLDEYKEKNRRELAEMQRQLKEKTLEAEKSRLTAMKMQDEMRLMEEELRDYQRAQDEALTKRQLLEQTLKDLEYELEAKSHLKDDRSRLVKQMEDKVSQLEMELEEERNNSDLLSERISRSREQMEQLRNELLQERAARQDLECDKISLERQNKDLKSRIIHLEGSYRSSKEGLVVQMEARIAELEDRLESEERDRANLQLSNRRLERKVKELVMQVDDEHLSLTDQKDQLSLRLKAMKRQVEEAEEEIDRLESSKKKLQRELEEQMDMNEHLQGQLNSMKKDLRLKKLPSKVLDDMDDDDDLSTDGGSLYEAPVSYTFSKDSTVASQI |
| 965 | sp|O74518|CID12\_SCHPO | MGKVLLELHSVPWNEEGLSDNARLYSFLEFVSPKIEELKYRKLLLEKLQTHIREVVLDAELQVYGSMYIGTTLSISDVDVSLKSPRVGELEKRRVTMVLRKYLDADADFHSSARVPRINLVDVSGIGVDLTFGNDKACRTAELQKAYNEEHPIFGRLLMLLKHWLFERDLENVHHGGIASCALSYMLIGWLEMRFHKKGIDSEVQPIRALLQKFFYFWGVEWTYELFVLRPLTGQIVPKLQKGWLNEVQPNLLSIEDPIDRNNDIGKQSFQISMIKAAFVASANELLSDKTWFSTFAITEDEMFLCKQFENVINTKRSLVEGYDSDTESDELQAGG |
| 966 | sp|P43063|CDK1\_CANAL | MVELSDYQRQEKVGEGTYGVVYKALDTKHNNRVVALKKIRLESEDEGVPSTAIREISLLKEMKDDNIVRLYDIIHSDSHKLYLVFEFLDLDLKKYMESIPQGVGLGANMIKRFMNQLIRGIKHCHSHRVLHRDLKPQNLLIDKEGNLKLADFGLARAFGVPLRAYTHEVVTLWYRAPEILLGGKQYSTGVDMWSVGCIFAEMCNRKPLFPGDSEIDEIFRIFRILGTPNEEIWPDVNYLPDFKSSFPQWKKKPLSEAVPSLDANGIDLLDQMLVYDPSRRISAKRALIHPYFNDNDDRDHNNYNEDNIGIDKHQNMQ |
| 967 | sp|Q6IQX7|CHSS2\_MOUSE | MRASLLLSVLRPAGPVAVGISLGFTLSLLSVTWVEEPCGPGPPQPGDSELPPRGNTNAARRPNSVQPGSERERPGAGAGTGESWEPRVLPYHPAQPGQATKKAVRTRYISTELGIRQKLLVAVLTSQATLPTLGVAVNRTLGHRLEHVVFLTGARGRRTPSGMAVVALGEERPIGHLHLALRHLLEQHGDDFDWFFLVPDATYTEAHGLDRLAGHLSLASATHLYLGRPQDFIGGDTTPGRYCHGGFGVLLSRTLLQQLRPHLESCRNDIVSARPDEWLGRCILDATGVGCTGDHEGMHYNYLELSPGEPVQEGDPRFRSALTAHPVRDPVHMYQLHKAFARAELDRTYQEIQELQWEIQNTSRLAADGERASAWPVGIPAPSRPASRFEVLRWDYFTEQYAFSCADGSPRCPLRGADQADVADVLGTALEELNRRYQPALQLQKQQLVNGYRRFDPARGMEYTLDLQLEALTPQGGRWPLTRRVQLLRPLSRVEILPVPYVTEASRLTVLLPLAAAERDLASGFLEAFATAALEPGDAAALTLLLLYEPRQAQRAAHSDVFAPVKAHVAELERRFPGARVPWLSVQTAAPSPLRLMDLLSKKHPLDTLFLLAGPDTVLTPDFLNRCRMHAISGWQAFFPMHFQAFHPAVAPPQGPGPPELGRDTGHFDRQAASEACFYNSDYVAARGRLVAASEQEEELLESLDVYELFLRFSNLHVLRAVEPALLQRYRAQPCSARLSEDLYHRCRQSVLEGLGSRTQLAMLLFEQEQGNST |
| 968 | sp|P51952|CDK7\_RAT | ANRNEKLDFLGEGQFATVYKARDKNTNQIVAIKKIKLGHRSEAKDGINRTALREIKLLQELSHPNIIGLLDAFGHKSNISLVFDFMETDLEVIIKDNSLVLTPSHIKAYMLMTLQGLEYLHQHWILHRDLKPNNLLLDENGVLKLADFGLAKSFGSPNWAYTHQVVTRWYRAPELLFGARMYGVGVDMWAVGCILAELLLRVPFLPGDSDLDQLTRIFETLGTPTEEQWPDMCSLPDYVTFKSFPGIPLQHIFIAAGDDLLELIQGLFLFNPCTRITASQALRTKYFSNRPGPTPGCQLPRPNCPVEALKEQSNPAMATKRKRAEALEQ |
| 969 | sp|Q9UHD4|CIDEB\_HUMAN | MEYLSALNPSDLLRSVSNISSEFGRRVWTSAPPPQRPFRVCDHKRTIRKGLTAATRQELLAKALETLLLNGVLTLVLEEDGTAVDSEDFFQLLEDDTCLMVLQSGQSWSPTRSGVLSYGLGRERPKHSKDIARFTFDVYKQNPRDLFGSLNVKATFYGLYSMSCDFQGLGPKKVLRELLRWTSTLLQGLGHMLLGISSTLRHAVEGAEQWQQKGRLHSY |
| 970 | sp|Q8LPK5|CESA8\_ARATH | MMESRSPICNTCGEEIGVKSNGEFFVACHECSFPICKACLEYEFKEGRRICLRCGNPYDENVFDDVETKTSKTQSIVPTQTNNTSQDSGIHARHISTVSTIDSELNDEYGNPIWKNRVESWKDKKDKKSKKKKKDPKATKAEQHEAQIPTQQHMEDTPPNTESGATDVLSVVIPIPRTKITSYRIVIIMRLIILALFFNYRITHPVDSAYGLWLTSVICEIWFAVSWVLDQFPKWSPINRETYIDRLSARFEREGEQSQLAAVDFFVSTVDPLKEPPLITANTVLSILALDYPVDKVSCYVSDDGAAMLSFESLVETADFARKWVPFCKKYSIEPRAPEFYFSLKIDYLRDKVQPSFVKERRAMKRDYEEFKIRMNALVAKAQKTPEEGWTMQDGTSWPGNNTRDHPGMIQVFLGYSGARDIEGNELPRLVYVSREKRPGYQHHKKAGAENALVRVSAVLTNAPFILNLDCDHYVNNSKAVREAMCFLMDPVVGQDVCFVQFPQRFDGIDKSDRYANRNIVFFDVNMRGLDGIQGPVYVGTGTVFRRQALYGYSPPSKPRILPQSSSSSCCCLTKKKQPQDPSEIYKDAKREELDAAIFNLGDLDNYDEYDRSMLISQTSFEKTFGLSTVFIESTLMENGGVPDSVNPSTLIKEAIHVISCGYEEKTEWGKEIGWIYGSITEDILTGFKMHCRGWRSIYCMPLRPAFKGSAPINLSDRLHQVLRWALGSVEIFLSRHCPLWYGCSGGRLKLLQRLAYINTIVYPFTSLPLVAYCTLPAICLLTGKFIIPTLSNLASMLFLGLFISIILTSVLELRWSGVSIEDLWRNEQFWVIGGVSAHLFAVFQGFLKMLAGLDTNFTVTSKTADDLEFGELYIVKWTTLLIPPTSLLIINLVGVVAGFSDALNKGYEAWGPLFGKVFFAFWVILHLYPFLKGLMGRQNRTPTIVILWSILLASVFSLVWVRINPFVSKTDTTSLSLNCLLIDC |
| 971 | sp|Q9CPW0|CNTP2\_MOUSE | MVMSLRAGYRAALSLWILSSFICRAWTAPSTFQKCDEPLISGLPHVSFSSSSSLSSSYAPGYAKINKRGGAGGWSPSDSDHYQWLQVDFGNRKQISAIATQGRYSSSDWVTQYRMLYSDTGRNWKPYHQDGNIWAFPGNINSDSVVRHDLQHAVVARYVRIVPLDWNGEGHIGLRAEVYGCAYWADVINFDGHGVLPYRFRNKKMKTLKDVIALKFKTSESEGVLLHGEGQQGDYITLELKKAKLVLSLNLGSNQLGPIYGHTSVTSGSLLDDHHWHSVLIERQGRSINLTLDRSMQHFRTNGEFDYLDLDYEITFGGIPFSGKPSSSNRKNFKGCMESINYNGVNITDLARRKKLGPSNMGNLSFSCVEPYTVPVFFNATSYLEVPGRLNQDLFSVSFQFRTWNPSGLLLFSHFADNLGNVEIDLVESKVGVHINNTQTKTSQIDISSGSGLNDGQWHEVRFLAKENFAVLTIDGDEASAVRTNSPLQVKTGEKYFFGGFLNHMNNASYSALQPSFQGCMQLIQVDDQLVNLYEVAQRKPGSFANVTIDMCAIIDRCVPNHCEHGGKCSQTWDSFKCTCDETGYSGATCHNSIYEPSCEAYKHLGQTSNYYWIDPDGSGPLGPLKVYCNMTEDKVWTIVSHDLQMQTTVVGYNPEKYSVTQLIYSASMDQISAITSSAEYCEQYVSYFCRMSRLLNTPDGSPYTWWVGKANEKHYYWGGSEPGIQKCACGIERNCTDPKYYCNCDADYKQWRKDAGFLSYKDHLPVSQVVVGDTDRQGSEAKLSVGPLRCQGDRNYWNAASFPNPSSYLHFSTFQGETSADISFYFKTLIPRGVFLENLGNTDFIKLELKSATEVSFSFDVGNGPVEIVVRSPSPLNDDQWHRVTAERNVKQASLQVDRLPQQIRKAPTEGHTRLELYSQLFVGGAGGQQGFLGCIRSLRMNGVTLDLEERAKVTSGFKSGCSGHCTSYGANCENGGKCIEKYHGYSCDCSNTAYDGTFCNKDVGAFFEEGMWLRYNFQAPAVTARDTGSRAENSADQQQHLAPDLAQEQIHFSFSTTKAPCILLYVSSLTTDFLAVLVKPTGNLQIRYNLGGTREPFNIDVDHRNMANGQPHSVNITRHERTIILKLDHYPAVGYHLPSSSDTLFNSPKSLFLGKVIETGKIDQEIHKYNTPGFTGCLSRVQFNHIAPLKAALRQTNASAHVHIQGELVESNCGASPLTLSPMSSATDPWHLDHLDSASADFPYNPGQGQAIRNGVNRNSAIIGGVIAVVIFTILCTLVFLIRYMFRHKGTYHTNEAKGAESAESADAAIMNNDPNFTETIDESKKEWLI |
| 972 | sp|P28906|CD34\_HUMAN | MLVRRGARAGPRMPRGWTALCLLSLLPSGFMSLDNNGTATPELPTQGTFSNVSTNVSYQETTTPSTLGSTSLHPVSQHGNEATTNITETTVKFTSTSVITSVYGNTNSSVQSQTSVISTVFTTPANVSTPETTLKPSLSPGNVSDLSTTSTSLATSPTKPYTSSSPILSDIKAEIKCSGIREVKLTQGICLEQNKTSSCAEFKKDRGEGLARVLCGEEQADADAGAQVCSLLLAQSEVRPQCLLLVLANRTEISSKLQLMKKHQSDLKKLGILDFTEQDVASHQSYSQKTLIALVTSGALLAVLGITGYFLMNRRSWSPTGERLGEDPYYTENGGGQGYSSGPGTSPEAQGKASVNRGAQENGTGQATSRNGHSARQHVVADTEL |
| 973 | sp|Q8N5B7|CERS5\_HUMAN | MATAAQGPLSLLWGWLWSERFWLPENVSWADLEGPADGYGYPRGRHILSVFPLAAGIFFVRLLFERFIAKPCALCIGIEDSGPYQAQPNAILEKVFISITKYPDKKRLEGLSKQLDWNVRKIQCWFRHRRNQDKPPTLTKFCESMWRFTFYLCIFCYGIRFLWSSPWFWDIRQCWHNYPFQPLSSGLYHYYIMELAFYWSLMFSQFTDIKRKDFLIMFVHHLVTIGLISFSYINNMVRVGTLIMCLHDVSDFLLEAAKLANYAKYQRLCDTLFVIFSAVFMVTRLGIYPFWILNTTLFESWEIIGPYASWWLLNGLLLTLQLLHVIWSYLIARIALKALIRGKVSKDDRSDVESSSEEEDVTTCTKSPCDSSSSNGANRVNGHMGGSYWAEE |
| 974 | sp|Q22361|CNI1\_CAEEL | MAFTFAAFCYLLALIAVGFCIFFAIYTVICVDELRTDYKNPIEQCRNLNQLILPEYIIHGTFTVLFIFSWQLISILANLPLAFYHIYTYAKRPVMSGPGIYDPTTILNRSTLSSTLRISWIKLAFYLVSFFYYLYAMIYTLVTSN |
| 975 | sp|Q9QZS0|CO4A3\_MOUSE | MHSKTAPRFLVFLLLTLLLLLAASPVASKGCVCKGKGQCLCAGTKGEKGEKGVPGSPGFPGQKGFPGPEGLPGPQGPKGSPGLPGLTGPKGIRGITGLPGFAGPPGLPGLPGHPGPRGLAGLPGCNGSKGEQGFPGFPGTPGYAGLPGPDGLKGQKGEPAQGEDRGFNGKGDPGPPGVPGFQGFPGLPGFPGPAGPPGPPGFFGLPGAMGPRGPKGHMGDSVIGQKGERGMKGLTGPPGPPGTVIFTLTQPYNKSDFKGEKGDEGERGEPGPPGPSGPPGDSYGSEKGAPGEPGPRGKPGKDGAPGFPGTEGAKGNRGFPGLRGEAGIKGRKGDIGPPGFPGPTEYYDAYLEKGERGMPGLPGPKGARGPQGPSGPPGVPGSPGLSRPGLRGPIGWPGLKGSKGERGPPGKDTVGPPGPLGCPGSPGPPGPPGPPGCPGDIVFKCSPGEHGMPGDTGPPGVPGLDGPKGEPGSPCTECHCFPGPPGVPGFPGLDGIKGIPGGRGVPGLKGNPGSPGSAGLPGFAGFPGDQGHPGLKGDKGDTPLPWGQVGNPGDPGLRGLPGRKGFDGTPGGPGAKGPPGPQGEPALSGRKGDQGPPGPPGFPGPPGPAGPAGPPGYGPQGEPGPKGAQGVPGVLGPPGEAGLKGEPSTSTPDLGPPGPPGPPGQAGPRGLPGLPGPVGKCDPGLPGPDGEPGIPEAGCPGPPGPKGNQGFPGTKGSPGCPGEMGKPGRPGEPGIPGAKGEPSVGRPGKPGKPGFPGERGNAGENGDIGLPGLPGLPGTPGRGGLDGPPGDPGQPGSPGAKGSPGRCIPGPRGTQGLPGLNGLKGQPGRRGDTGPKGDPGIPGMDRSGVPGDPGPPGTPGCPGEMGPPGQKGYPGAPGFPGPPGEKGEVGMMGYPGTTGPPGLPGKPGSQGQRGSLGIPGMKGEKGRPGAKGERGEKGKPGPSQTTLLKGDKGEPGLKGFVGNPGEKGNRGNPGLPGPKGLEGLPGLPGPPGPRGDTGSRGNPGRPGPHGMPGSMGIMGVPGPKGRKGTSGLPGLAGRPGLTGIHGPQGDKGEPGYSEGARPGPPGPKGDPGLPGDKGKKGERGVPGPPGQSGPAGPDGAPGSPGSPGHPGKPGPAGDLGLKGQKGFPGPPGSTGPPGPPGLPGLPGPMGMRGDQGRDGIPGPPGEKGETGLLGAYPGPKGSPGVPGAKGDRGVPGLSGLPGRKGVMGDVGPQGPPGTAGLPGPPGLPGAIIPGPKGDRGLPGLRGNPGEPGPPGPPGPIGKGIKGDKGFMGPPGPKGLPGTVGDMGPPGFPGAPGTPGLPGVRGDPGFPGFPGIKGEKGNPGFLGPIGHPGPVGPKGPPGPRGKPGTLKVISLPGSPGPPGVPGQPGMKGDPGPLGLPGIPGPCGPRGKPGKDGKPGTPGPAGTKGNKGLKGQQGPPGLDGLPGLKGNPGDRGTPATGTRMRGFIFTRHSQTTAIPSCPEGTQPLYSGFSLLFVQGNKRAHGQDLGTLGSCLQRFTTMPFLFCNINNVCNFASRNDYSYWLSTPALMPMDMAPISGRALEPYISRCTVCEGPAMAIAVHSQTTAIPPCPQDWVSLWKGFSFIMFTSAGSEGAGQALASPGSCLEEFRASPFIECHGRGTCNYYSNSYSFWLASLNPERMFRKPIPSTVKAGDLEKIISRCQVCMKKRH |
| 976 | sp|P13941|CO3A1\_RAT | MMSFVQCGTWFLLTLLHPSLILAQQSNVDELGCNYLGQSYESRDVWKPEPCQICVCDSGSVLCDDIMCDDEPLDCPNPEIPFGECCAICPQPSTPAPVIPDGNRPQGPKGDPGPPGIPGRNGDPGLPGQPGLPGPPGSPGICESCPTGGQNYSPQFDSYDVKSGVGGMGGYPGPAGPPGPPGPPGSSGHPGSPGSPGYQGPPGEPGQAGPAGPPGPPGAIGPSGPAGKDGESGRPGRPGERGLPGPPGIKGPAGIPGFPGMKGHRGFDGRNGEKGETGAPGLKGENGLPGDNGAPGPMGPRGAPGERGRPGLPGAAGARGNDGARGSDGQPGPPGPPGTAGFPGSPGAKGEVGPAGSPGSNGSPGQRGEPGPQGHAGAQGPPGPPGNNGSPGGKGEMGPAGIPGAPGLLGARGPPGPAGANGAPGQRGPSGEPGKNGAKGEPGARGERGEAGSPGIPGPKGEDGKDGSPGEPGANGVPGNPGERGAPGFRGPAGPNGAPGEKGPAGERGGPGPAGPRGVAGEPGRDGTPGGPGIRGMPGSPGGPGNDGKPGPPGSQGESGRPGPPGPSGPRGQPGVMGFPGPKGNDGAPGKNGERGGPGGPGLPGPAGKNGETGPQGPPGPTGAPGDKGDAGPPGPQGLQGIPGTSGPPGENGKPGEPGPKGEAGAPGVPGGKGDSGAPGERGPPGTAGTPGLRGGAGPPGPEGGKGPAGPPGPPGTSGPPGLQGMPGERGGPGSPGPKGEKGEPGGAGADGVPGKDGPRGPAGPIGPPGPAGQPGDKGEGGAPGLPGIAGPRGGPGERGEHGPPGPAGFPGAPGQNGEPGAKGERGAPGEKGEGGPPGAAGPPGGSGPAGPPGPQGVKGERGSPGGPGAAGFPGGRGLPGPPGNNGNPGPPGPSGAPGKDGPPGPAGNSGSPGNPGVAGPKGDAGQPGEKGPPGAQGPPGSPGPLGIAGLTGARGLAGPPGMPGPRGSPGPQGIKGESGKPGASGHNGERGPPGPQGLPGQPGTAGEPGRDGNPGSDGQPGRDGSPGGKGDRGENGSPGAPGAPGHPGPPGPVGPSGKNGDRGETGPAGPSGAPGPAGARGAPGPQGPRGDKGETGERGSNGIKGHRGFPGNPGPPGSPGAAGHQGAVGSPGPAGPRGPVGPHGPPGKDGSSGHPGPIGPPGPRGNRGERGSEGSPGHPGQPGPPGPPGAPGPCCGGGAAIAGVGGEKSGGFSPYYGDDPMDFKINTEEIMSSLKSVNGQIESLISPDGSRKNPARNCRDLKFCHPELKSGEYWVDPNQGCKMDAIKVFCNMETGETCINASPMTVPRKHWWTDAGAEKKHVWFGESMNGGFQFSYGNPDLPEDVLDVQLAFLRLLSSRASQNITYHCKNSIAYMDQANGNVKKSLKLMGSNEGEFKAEGNSKFTYTVLEDGCTKHTGEWSKTVFEYQTRKAMRLPIIDIAPYDIGGPDQEFGVDIGPVCFL |
| 977 | sp|P01026|CO3\_RAT | MGPTSGSQLLVLLLLLASSLLALGSPMYSIITPNVLRLESEETFILEAHDAQGDVPVTVTVQDFLKKQVLTSEKTVLTGATGHLNRVFIKIPASKEFNADKGHKYVTVVANFGATVVEKAVLVSFQSGYLFIQTDKTIYTPGSTVFYRIFTVDNNLLPVGKTVVIVIETPDGVPIKRDILSSHNQYGILPLSWNIPELVNMGQWKIRAFYEHAPKQTFSAEFEVKEYVLPSFEVLVEPTEKFYYIHGPKGLEVSITARFLYGKNVDGTAFVIFGVQDEDKKISLALSLTRVLIEDGSGEAVLSRKVLMDGVRPSSPEALVGKSLYVSVTVILHSGSDMVEAERSGIPIVTSPYQIHFTKTPKFFKPAMPFDLMVFVTNPDGSPARRVPVVTQGSDAQALTQDDGVAKLSVNTPNNRQPLTITVSTKKEGIPDARQATRTMQAQPYSTMHNSNNYLHLSVSRVELKPGDNLNVNFHLRTDAGQEAKIRYYTYLVMNKGKLLKAGRQVREPGQDLVVLSLPITPEFIPSFRLVAYYTLIGANGQREVVADSVWVDVKDSCVGTLVVKGDPRDNRQPAPGHQTTLRIEGNQGARVGLVAVDKGVFVLNKKNKLTQSKIWDVVEKADIGCTPGSGKNYAGVFMDAGLTFKTNQGLQTDQREDPECAKPAARRRRSVQLMERRMDKAGQYTDKGLRKCCEDGMRDIPMPYSCQRRARLITQGESCLKAFMDCCNYITKLREQHRRDHVLGLARSDVDEDIIPEEDIISRSHFPESWLWTIEELKEPEKNGISTKVMNIFLKDSITTWEILAVSLSDKKGICVADPYEITVMQDFFIDLRLPYSVVRNEQVEIRAVLFNYREQEKLKVRVELLHNPAFCSMATAKKRYYQTIEIPPKSSVAVPYVIVPLKIGLQEVEVKAAVFNHFISDGVKKILKVVPEGMRVNKTVAVRTLDPEHLNQGGVQREDVNAADLSDQVPDTDSETRILLQGTPVAQMAEDAVDGERLKHLIVTPSGCGEQNMIGMTPTVIAVHYLDQTEQWEKFGLEKRQEALELIKKGYTQQLAFKQPISAYAAFNNRPPSTWLTAMWSRSFSLAANLIAIDSQVLCGAVKWLILEKQKPDGVFQEDGPVIHQEMIGGFRNTKEADVSLTAFVLIALQEARDICEGQVNSLPGSINKAGEYLEASYLNLQRPYTVAIAGYALALMNKLEEPYLTKFLNTAKDRNRWEEPGQQLYNVEATSYALLALLLLKDFDSVPPVVRWLNDERYYGGGYGSTQATFMVFQALAQYRADVPDHKDLNMDVSLHLPSRSSPTVFRLLWESGSLLRSEETKQNEGFSLTAKGKGQGTLSVVTVYHAKVKGKTTCKKFDLRVTIKPAPETAKKPQDAKSSMILDICTRYLGDVDATMSILDISMMTGFIPDTNDLELLSSGVDRYISKYEMDKAFSNKNTLIIYLEKISHSEEDCLSFKVHQFFNVGLIQPGSVKVYSYYNLEESCTRFYHPEKDDGMLSKLCHNEMCRCAEENCFMHQSQDQVSLNERLDKACEPGVDYVYKTKLTTIELSDDFDEYIMTIEQVIKSGSDEVQAGQERRFISHVKCRNALKLQKGKQYLMWGLSSDLWGEKPNTSYIIGKDTWVEHWPEAEERQDQKNQKQCEDLGAFTETMVVFGCPN |
| 978 | sp|Q86X95|CIR1\_HUMAN | MGKSFANFMCKKDFHPASKSNIKKVWMAEQKISYDKKKQEELMQQYLKEQESYDNRLLMGDERVKNGLNFMYEAPPGAKKENKEKEETEGETEYKFEWQKGAPREKYAKDDMNIRDQPFGIQVRNVRCIKCHKWGHVNTDRECPLFGLSGINASSVPTDGSGPSMHPSELIAEMRNSGFALKRNVLGRNLTANDPSQEYVASEGEEDPEVEFLKSLTTKQKQKLLRKLDRLEKKKKKKDRKKKKFQKSRSKHKKHKSSSSSSSSSSSSSSTETSESSSESESNNKEKKIQRKKRKKNKCSGHNNSDSEEKDKSKKRKLHEELSSSHHNREKAKEKPRFLKHESSREDSKWSHSDSDKKSRTHKHSPEKRGSERKEGSSRSHGREERSRRSRSRSPGSYKQRETRKRAQRNPGEEQSRRNDSRSHGTDLYRGEKMYREHPGGTHTKVTQRE |
| 979 | sp|P22260|CLP\_XANCP | MSLGNTTVVTTTVRNATPSLTLDAGTIERFLAHSHRRRYPTRTDVFRPGDPAGTLYYVISGSVSIIAEEDDDRELVLGYFGSGEFVGEMGLFIESDTREVILRTRTQCELAEISYERLQQLFQTSLSPDAPRILYAIGVQLSKRLLDTTRKASRLAFLDVTDRIVRTLHDLSKEPEAMSHPQGTQLRVSRQELARLVGCSREMAGRVLKKLQADGLLHARGKTVVLYGTR |
| 980 | sp|Q13286|CLN3\_HUMAN | MGGCAGSRRRFSDSEGEETVPEPRLPLLDHQGAHWKNAVGFWLLGLCNNFSYVVMLSAAHDILSHKRTSGNQSHVDPGPTPIPHNSSSRFDCNSVSTAAVLLADILPTLVIKLLAPLGLHLLPYSPRVLVSGICAAGSFVLVAFSHSVGTSLCGVVFASISSGLGEVTFLSLTAFYPRAVISWWSSGTGGAGLLGALSYLGLTQAGLSPQQTLLSMLGIPALLLASYFLLLTSPEAQDPGGEEEAESAARQPLIRTEAPESKPGSSSSLSLRERWTVFKGLLWYIVPLVVVYFAEYFINQGLFELLFFWNTSLSHAQQYRWYQMLYQAGVFASRSSLRCCRIRFTWALALLQCLNLVFLLADVWFGFLPSIYLVFLIILYEGLLGGAAYVNTFHNIALETSDEHREFAMAATCISDTLGISLSGLLALPLHDFLCQLS |
| 981 | sp|Q9LZW4|CIPKE\_ARATH | MVDSDPVEFPPENRRGQLFGKYEVGKLVGCGAFAKVYHGRSTATGQSVAIKVVSKQRLQKGGLNGNIQREIAIMHRLRHPSIVRLFEVLATKSKIFFVMEFAKGGELFAKVSKGRFCEDLSRRYFQQLISAVGYCHSRGIFHRDLKPENLLLDEKLDLKISDFGLSALTDQIRPDGLLHTLCGTPAYVAPEVLAKKGYDGAKIDIWSCGIILFVLNAGYLPFNDHNLMVMYRKIYKGEFRIPKWTSPDLRRLLTRLLDTNPQTRITIEEIIHDPWFKQGYDDRMSKFHLEDSDMKLPADETDSEMGARRMNAFDIISGSPGFNLSGLFGDARKYDRVERFVSAWTAERVVERLEEIVSAENLTVAKKETWGMKIEGQKGNFAMVVEINQLTDELVMIEVRKRQRAAASGRDLWTDTLRPFFVELVHESDQTDPEPTQVHTTS |
| 982 | sp|Q9JLH5|CK5P2\_RAT | MMDSGMEEDVTLPGTLSGCSGLHPVLPSDLDVISDTTGLGNGVLPIMSEEKVSPTRARNMKDFENQITELKKENFNLKLRIYFLEERIQQEFAGPTEHIYKKNIELKVEVESLKRELQERDQLLVKASKAVESLAEGGGSEIQRVKEDARKKVQQVEELLTKRIHLLEEDVKAAQAELEKAFAGTETEKALRLSLESKLSAMKKMQEGDLEMTLALEEKDRLIEELKLSLKSKEALIQCLKEEKSQMASPDENVSSGELRGLSATLREEKERDAEERQKERNHFEERIQALQEDLREKEREIATEKKNSLKRDKAIQGLTMALKSKEKEVEELNSIIKELTADSTQSREAPLKTQVSEFEVRESENCEAALAEKEALLAKLHSENVTKNTENHRLLRNVKKVTQELNDLKKEKLRLERDLEEAHREGNRGARTIHDLRNEVEKLRKEVCEREKAVEKHYKSLPGESSSKFHSQEQVVKGLTESASQEDLLLQKSNEKDLEAIQQNCYLMTAEELKFGSDGLITEKCSQQSPDSKLIFSKEKQQSEYEGLTGDLKTEQNVYAHLAKNLQDTDSKLQAELKRVLALRKQLEQDVLAYRNLQTALQEQLSEIRKREEEPFSFYSDQTSYLSICLEEHSQFQLEHFSQEEIKKKVIDLIQLVKDLHADNQHLKKTIFDISCMGVQGNDRLESTKQAELMASKADEDTLKFKADDENHFQSDQHLEQSREIMEDYAEGGGKDGYVRHMDSNILDHDGAHTPDTSEDHSLEDELLSLLATFFSKKATPSLESRPDLLKALGALLLERICLAEQGSPGDHSDSKAEKALEQVAVRLRDELGHSCLANSFSKSHSELKSPRGTWLVKTGDEAKVELKSVSVQTMTIEDSTRGFKPERKREAWAGKPEEAVFSTELESEALGEMPGLQATHLSFPSAIDKDDQKTGLLIQLKTPELLENLYNLPASQEVVAQLQGQVLELQKELKEYKIRNKQLLDKLILAEAMMEGMAVPNSTPVNVPAAQAVVRTAFQGKPGEQEGHETTHSAGRDKEVDSDQYTSFEIDSEICPPDDLALLPACKENLEDFLGPPSIATYLDSKSQLSVKVSVVGTDQSENINLPDDTEALKQKIHDLQTELEGYRNIIVQLQKHSQCSEAIITVLCGTEGAQDGLNKPKGHIDEEEMTFSSLHQVRYVKHMKILRPLTPEIIDGKMLESLKQQLVEQEQELQKEQDLNLELFGEIHNLQNKFRDLSPSRYDSLVQSQARELSLQRQQIKDSHDICVVCHQHMSTMIKAFEELLQASDVDSCVAEGFREQLTQCAGLLEQLEKLFLHGKSARVEPHTQTELLRRLRTEEDNLPYQHLLPESPEPSASHALSDDEMSEKSFLSREPKPDSETEKYPTIASRFPQDLLMEHIQEIRTLRKHLEESIKTNEKLRKQLERQGCETDQGSTNVSAYSSELHNSLTSEIQFLRKQNEALSTMLEKGSKEKQKENEKLRESLARKTESLEHLQLEYASVREENERLRRDISEKERQNQQLTQEVCSSLQELSRVQEEAKSRQQLLLQKDELLQSLQMELKVYEKLAEEHQKLQQESRGEACGGGQKGQDPFSNLHGLLKEIQVLRDQAERSIQTNNTLKSKLEKQLSQGSKQAQEGALTLAVQALSVTEWSLQLDKHDVNKCPEASDNSFDLFESTQAMAPKSASETPVLSGTDVDSLSCDSTSSATSPSCMPCLVAGRHLWASKSGHHMLCLIEDYDALYKQISWGQTLLAKMDIQTQEALSPTSQKLGPKASFSVPLSKFLSSMNTAKLILEKASRLLKLFWRVSVPTNGQCSLHCDQIGEMKAEITKLHKKLFEQEKKLQNTAKLLQQSKHQEKIIFDQLVITHQVLRKARGNLELRPRAAHPGTSSPSRPGS |
| 983 | sp|P22518|CLK1\_MOUSE | MRHSKRTYCPDWDERDWDYGTWRSSSSHKRKKRSHSSAREQKRCRYDHSKTTDSYYLESRSINEKAYHSRRYVDEYRNDYMGYEPGHPYGEPGSRYQMHSSKSSGRSGRSSYKSKHRSRHHTSQHHSHGKSHRRKRSRSVEDDEEGHLICQSGDVLSARYEIVDTLGEGAFGKVVECIDHKVGGRRVAVKIVKNVDRYCEAAQSEIQVLEHLNTTDPHSTFRCVQMLEWFEHRGHICIVFELLGLSTYDFIKENSFLPFRMDHIRKMAYQICKSVNFLHSNKLTHTDLKPENILFVKSDYTEAYNPKMKRDERTIVNPDIKVVDFGSATYDDEHHSTLVSTRHYRAPEVILALGWSQPCDVWSIGCILIEYYLGFTVFPTHDSREHLAMMERILGPLPKHMIQKTRKRRYFHHDRLDWDEHSSAGRYVSRRCKPLKEFMLSQDAEHELLFDLIGKMLEYDPAKRITLKEALKHPFFYPLKKHT |
| 984 | sp|Q9Z0W7|CLIC4\_RAT | MALSMPLNGLKEEDKEPLIELFVKAGSDGESIGNCPFSQRLFMILWLKGVVFSVTTVDLKRKPAHLQNLAPGTHPPFITFNSEVKTDVNKIEEFLEEVLCPPKYLKLSPKHPESNTAGMDIFAKFSAYIKNSRPEANEALERGLLKTLQKLDEYLNSPLPGEIDENSMEDIKSSTRRFLDGDEMTLADCNLLPKLHIVKVVAKKYRNFDIPKGMTGIWRYLTNAYSRDEFTNTCPSDKEVEIAYSDVAKRLTK |
| 985 | sp|P29742|CLH\_DROME | MTQPLPIRFQEHLQLTNVGINANSFSFSTLTMESDKFICVREKVNDTAQVVIIDMNDATNPTRRPISADSAIMNPASKVIALKAQKTLQIFNIEMKSKMKAHTMNEDVVFWKWISLNTLALVTETSVFHWSMEGDSMPQKMFDRHSSLNGCQIINYRCNASQQWLLLVGISALPSRVAGAMQLYSVERKVSQAIEGHAASFATFKIDANKEPTTLFCFAVRTATGGKLHIIEVGAPPNGNQPFAKKAVDVFFPPEAQNDFPVAMQVSAKYDTIYLITKYGYIHLYDMETATCIYMNRISADTIFVTAPHEASGGIIGVNRKGQVLSVTVDEEQIIPYINTVLQNPDLALRMAVRNNLAGAEDLFVRKFNKLFTAGQYAEAAKVAALAPKAILRTPQTIQRFQQVQTPAGSTTPPLLQYFGILLDQGKLNKFESLELCRPVLLQGKKQLCEKWLKEEKLECSEELGDLVKASDLTLALSIYLRANVPNKVIQCFAETGQFQKIVLYAKKVNYTPDYVFLLRSVMRSNPEQGAGFASMLVAEEEPLADINQIVDIFMEHSMVQQCTAFLLDALKHNRPAEGALQTRLLEMNLMSAPQVADAILGNAMFTHYDRAHIAQLCEKAGLLQRALEHYTDLYDIKRAVVHTHMLNAEWLVSFFGTLSVEDSLECLKAMLTANLRQNLQICVQIATKYHEQLTNKALIDLFEGFKSYDGLFYFLSSIVNFSQDPEVHFKYIQAACKTNQIKEVERICRESNCYNPERVKNFLKEAKLTDQLPLIIVCDRFDFVHDLVLYLYRNNLQKYIEIYVQKVNPSRLPVVVGGLLDVDCSEDIIKNLILVVKGQFSTDELVEEVEKRNRLKLLLPWLESRVHEGCVEPATHNALAKIYIDSNNNPERYLKENQYYDSRVVGRYCEKRDPHLACVAYERGLCDRELIAVCNENSLFKSEARYLVGRRDAELWAEVLSESNPYKRQLIDQVVQTALSETQDPDDISVTVKAFMTADLPNELIELLEKIILDSSVFSDHRNLQNLLILTAIKADRTRVMDYINRLENYDAPDIANIAISNQLYEEAFAIFKKFDVNTSAIQVLIDQVNNLERANEFAERCNEPAVWSQLAKAQLQQGLVKEAIDSYIKADDPSAYVDVVDVASKVESWDDLVRYLQMARKKARESYIESELIYAYARTGRLADLEEFISGPNHADIQKIGNRCFSDGMYDAAKLLYNNVSNFARLAITLVYLKEFQGAVDSARKANSTRTWKEVCFACVDAEEFRLAQMCGLHIVVHADELEDLINYYQNRGYFDELIALLESALGLERAHMGMFTELAILYSKFKPSKMREHLELFWSRVNIPKVLRAAESAHLWSELVFLYDKYEEYDNAVLAMMAHPTEAWREGHFKDIITKVANIELYYKAIEFYLDFKPLLLNDMLLVLAPRMDHTRAVSYFSKTGYLPLVKPYLRSVQSLNNKAINEALNGLLIDEEDYQGLRNSIDGFDNFDNIALAQKLEKHELTEFRRIAAYLYKGNNRWKQSVELCKKDKLYKDAMEYAAESCKQDIAEELLGWFLERDAYDCFAACLYQCYDLLRPDVILELAWKHKIVDFAMPYLIQVLREYTTKVDKLELNEAQREKEDDSTEHKNIIQMEPQLMITAGPAMGIPPQYAQNYPPGAATVTAAGGRNMGYPYL |
| 986 | sp|Q96SN8|CK5P2\_HUMAN | MMDLVLEEDVTVPGTLSGCSGLVPSVPDDLDGINPNAGLGNGLLPNVSEETVSPTRARNMKDFENQITELKKENFNLKLRIYFLEERMQQEFHGPTEHIYKTNIELKVEVESLKRELQEREQLLIKASKAVESLAEAGGSEIQRVKEDARKKVQQVEDLLTKRILLLEKDVTAAQAELEKAFAGTETEKALRLRLESKLSEMKKMHEGDLAMALVLDEKDRLIEELKLSLKSKEALIQCLKEEKSQMACPDENVSSGELRGLCAAPREEKERETEAAQMEHQKERNSFEERIQALEEDLREKEREIATEKKNSLKRDKAIQGLTMALKSKEKKVEELNSEIEKLSAAFAKAREALQKAQTQEFQGSEDYETALSGKEALSAALRSQNLTKSTENHRLRRSIKKITQELSDLQQERERLEKDLEEAHREKSKGDCTIRDLRNEVEKLRNEVNEREKAMENRYKSLLSESNKKLHNQEQVIKHLTESTNQKDVLLQKFNEKDLEVIQQNCYLMAAEDLELRSEGLITEKCSSQQPPGSKTIFSKEKKQSSDYEELIQVLKKEQDIYTHLVKSLQESDSINNLQAELNKIFALRKQLEQDVLSYQNLRKTLEEQISEIRRREEESFSLYSDQTSYLSICLEENNRFQVEHFSQEELKKKVSDLIQLVKELYTDNQHLKKTIFDLSCMGFQGNGFPDRLASTEQTELLASKEDEDTIKIGEDDEINFLSDQHLQQSNEIMKDLSKGGCKNGYLRHTESKISDCDGAHAPGCLEEGAFINLLAPLFNEKATLLLESRPDLLKVVRELLLGQLFLTEQEVSGEHLDGKTEKTPKQKGELVHFVQTNSFSKPHDELKLSCEAQLVKAGEVPKVGLKDASVQTVATEGDLLRFKHEATREAWEEKPINTALSAEHRPENLHGVPGWQAALLSLPGITNREAKKSRLPILIKPSRSLGNMYRLPATQEVVTQLQSQILELQGELKEFKTCNKQLHQKLILAEAVMEGRPTPDKTLLNAQPPVGAAYQDSPGEQKGIKTTSSVWRDKEMDSDQQRSYEIDSEICPPDDLASLPSCKENPEDVLSPTSVATYLSSKSQPSAKVSVMGTDQSESINTSNETEYLKQKIHDLETELEGYQNFIFQLQKHSQCSEAIITVLCGTEGAQDGLSKPKNGSDGEEMTFSSLHQVRYVKHVKILGPLAPEMIDSRVLENLKQQLEEQEYKLQKEQNLNMQLFSEIHNLQNKFRDLSPPRYDSLVQSQARELSLQRQQIKDGHGICVISRQHMNTMIKAFEELLQASDVDYCVAEGFQEQLNQCAELLEKLEKLFLNGKSVGVEMNTQNELMERIEEDNLTYQHLLPESPEPSASHALSDYETSEKSFFSRDQKQDNETEKTSVMVNSFSQDLLMEHIQEIRTLRKRLEESIKTNEKLRKQLERQGSEFVQGSTSIFASGSELHSSLTSEIHFLRKQNQALNAMLIKGSRDKQKENDKLRESLSRKTVSLEHLQREYASVKEENERLQKEGSEKERHNQQLIQEVRCSGQELSRVQEEVKLRQQLLSQNDKLLQSLRVELKAYEKLDEEHRRLREASGEGWKGQDPFRDLHSLLMEIQALRLQLERSIETSSTLQSRLKEQLARGAEKAQEGALTLAVQAVSIPEVPLQPDKHDGDKYPMESDNSFDLFDSSQAVTPKSVSETPPLSGNDTDSLSCDSGSSATSTPCVSRLVTGHHLWASKNGRHVLGLIEDYEALLKQISQGQRLLAEMDIQTQEAPSSTSQELGTKGPHPAPLSKFVSSVSTAKLTLEEAYRRLKLLWRVSLPEDGQCPLHCEQIGEMKAEVTKLHKKLFEQEKKLQNTMKLLQLSKRQEKVIFDQLVVTHKILRKARGNLELRPGGAHPGTCSPSRPGS |
| 987 | sp|Q8LPJ1|CKL6\_ARATH | MDLKMDNVIGGKFKLGRKIGGGSFGELFLAVSLQTGEEAAVKLEPAKTKHPQLHYESKIYMLLQGGSGIPSLKWFGVQGDYNAMVIDLLGPSLEDLFNYCNRRLTLKAVLMLADQLISRVEYMHSRGFLHRDIKPDNFLMGLGRKANQVYIIDFGLAKKYRDLQTHRHIPYRENKNLTGTARYASVNTHLGVEQSRRDDLESLGYVLMYFLRGSLPWQGLKAGTKKQKYDRISEKKVSTPIEVLCKSYPPEFVSYFQYCRSLRFEDKPDYSYLKRLFRDLFIREGYQFDYVFDWTALKHPQSSARSHSSTHERHRTGKPGMGAGPSAEKPERISVGNIRDKFSGAVEAFARRNVRGPSPHQNHTRHRTLDEIPSMKPAVNMVSEKGRNTSRYGSASRRAVASGSRPSSSGEQRESRDSSRVASSGGGVRPSVFQRTQAAAAVSGYESKTASAFNRDRVAASRTARDEALRSFELLSIRK |
| 988 | sp|Q08466|CSK22\_ARATH | MHLIFFFSYFLRRYLLLLCAILILRAPLAHSLIPPLTCVNTGTVESDVTGIRFDRCLDTDSLAKISLSTVMSKARVYTDVNVIRPKDYWDYESLNVQWGEQDDYEVVRKVGRGKYSEVFEGINMNNNEKCIIKILKPVKKKKIRREIKILQNLCGGPNIVKLLDVVRDQHSKTPSLIFEYVNSTDFKVLYPTLTDYDIRYYIYELLKALDFCHSQGIMHRDVKPHNVMIDHELRKLRLIDWGLAEFYHPGKEYNVRVASRYFKGPELLVDLQDYDYSLDMWSLGCMFAGMIFRKEPFFYGHDNQDQLVKIAKVLGTDELNAYLNKYQLELDTQLEALVGRHSRKPWSKFINADNRHLVSPEAIDYLDKLLRYDHQDRLTAKEAMAHPYFAQVRAAESSRMRTQ |
| 989 | sp|P67868|CSK2B\_BOVIN | MSSSEEVSWISWFCGLRGNEFFCEVDEDYIQDKFNLTGLNEQVPHYRQALDMILDLEPDEELEDNPNQSDLIEQAAEMLYGLIHARYILTNRGIAQMLEKYQQGDFGYCPRVYCENQPMLPIGLSDIPGEAMVKLYCPKCMDVYTPKSSRHHHTDGAYFGTGFPHMLFMVHPEYRPKRPANQFVPRLYGFKIHPMAYQLQLQAASNFKSPVKTIR |
| 990 | sp|P41316|CRYAB\_RABIT | MDIAIHHPWIRRPFFPFHSPSRLFDQFFGEHLLESDLFPTSTSLSPFYLRPPSFLRAPSWIDTGLSEMRLEKDRFSVNLDVKHFSPEELKVKVLGDVIEVHGKHEERQDEHGFISREFHRKYRIPADVDPLTITSSLSSDGVLTVNGPRKQAPGPERTIPITREEKPAVTAAPKK |
| 991 | sp|P53621|COPA\_HUMAN | MLTKFETKSARVKGLSFHPKRPWILTSLHNGVIQLWDYRMCTLIDKFDEHDGPVRGIDFHKQQPLFVSGGDDYKIKVWNYKLRRCLFTLLGHLDYIRTTFFHHEYPWILSASDDQTIRVWNWQSRTCVCVLTGHNHYVMCAQFHPTEDLVVSASLDQTVRVWDISGLRKKNLSPGAVESDVRGITGVDLFGTTDAVVKHVLEGHDRGVNWAAFHPTMPLIVSGADDRQVKIWRMNESKAWEVDTCRGHYNNVSCAVFHPRQELILSNSEDKSIRVWDMSKRTGVQTFRRDHDRFWVLAAHPNLNLFAAGHDGGMIVFKLERERPAYAVHGNMLHYVKDRFLRQLDFNSSKDVAVMQLRSGSKFPVFNMSYNPAENAVLLCTRASNLENSTYDLYTIPKDADSQNPDAPEGKRSSGLTAVWVARNRFAVLDRMHSLLIKNLKNEITKKVQVPNCDEIFYAGTGNLLLRDADSITLFDVQQKRTLASVKISKVKYVIWSADMSHVALLAKHAIVICNRKLDALCNIHENIRVKSGAWDESGVFIYTTSNHIKYAVTTGDHGIIRTLDLPIYVTRVKGNNVYCLDRECRPRVLTIDPTEFKFKLALINRKYDEVLHMVRNAKLVGQSIIAYLQKKGYPEVALHFVKDEKTRFSLALECGNIEIALEAAKALDDKNCWEKLGEVALLQGNHQIVEMCYQRTKNFDKLSFLYLITGNLEKLRKMMKIAEIRKDMSGHYQNALYLGDVSERVRILKNCGQKSLAYLTAATHGLDEEAESLKETFDPEKETIPDIDPNAKLLQPPAPIMPLDTNWPLLTVSKGFFEGTIASKGKGGALAADIDIDTVGTEGWGEDAELQLDEDGFVEATEGLGDDALGKGQEEGGGWDVEEDLELPPELDISPGAAGGAEDGFFVPPTKGTSPTQIWCNNSQLPVDHILAGSFETAMRLLHDQVGVIQFGPYKQLFLQTYARGRTTYQALPCLPSMYGYPNRNWKDAGLKNGVPAVGLKLNDLIQRLQLCYQLTTVGKFEEAVEKFRSILLSVPLLVVDNKQEIAEAQQLITICREYIVGLSVETERKKLPKETLEQQKRICEMAAYFTHSNLQPVHMILVLRTALNLFFKLKNFKTAATFARRLLELGPKPEVAQQTRKILSACEKNPTDAYQLNYDMHNPFDICAASYRPIYRGKPVEKCPLSGACYSPEFKGQICRVTTVTEIGKDVIGLRISPLQFR |
| 992 | sp|O69078|CSRA\_PSEAE | MLILTRRVGETLMVGDDVTVTVLGVKGNQVRIGVNAPKEVAVHREEIYQRIQKEKDQEPNH |
| 993 | sp|P61201|CSN2\_HUMAN | MSDMEDDFMCDDEEDYDLEYSEDSNSEPNVDLENQYYNSKALKEDDPKAALSSFQKVLELEGEKGEWGFKALKQMIKINFKLTNFPEMMNRYKQLLTYIRSAVTRNYSEKSINSILDYISTSKQMDLLQEFYETTLEALKDAKNDRLWFKTNTKLGKLYLEREEYGKLQKILRQLHQSCQTDDGEDDLKKGTQLLEIYALEIQMYTAQKNNKKLKALYEQSLHIKSAIPHPLIMGVIRECGGKMHLREGEFEKAHTDFFEAFKNYDESGSPRRTTCLKYLVLANMLMKSGINPFDSQEAKPYKNDPEILAMTNLVSAYQNNDITEFEKILKTNHSNIMDDPFIREHIEELLRNIRTQVLIKLIKPYTRIHIPFISKELNIDVADVESLLVQCILDNTIHGRIDQVNQLLELDHQKRGGARYTALDKWTNQLNSLNQAVVSKLA |
| 994 | sp|O14618|CCS\_HUMAN | MASDSGNQGTLCTLEFAVQMTCQSCVDAVRKSLQGVAGVQDVEVHLEDQMVLVHTTLPSQEVQALLEGTGRQAVLKGMGSGQLQNLGAAVAILGGPGTVQGVVRFLQLTPERCLIEGTIDGLEPGLHGLHVHQYGDLTNNCNSCGNHFNPDGASHGGPQDSDRHRGDLGNVRADADGRAIFRMEDEQLKVWDVIGRSLIIDEGEDDLGRGGHPLSKITGNSGERLACGIIARSAGLFQNPKQICSCDGLTIWEERGRPIAGKGRKESAQPPAHL |
| 995 | sp|O77809|CP1A2\_MACFA | MALSQSVPFLATELLLASAIFCLVFWVLRGSRPRVPKGLKSPPEPWGWPLLGHVLTLGKNPHLALSRMSQLYGDVLQIRIGSTPVLVLSGLDTIRQALVRQGDDFKGRPDLYSFTFITDGQSMSFSPDSGPVWAARRRLAQNALNTFSIASDPASSSSCYLEEHVSKEAEALISRLQELMAGPGHFDPYNQVVVSVANVIGAMCFGQHFPESSDEMLSLVKNSHEFVESASSGNPVDFFPILRYLPNPALQRFKAFNQRFRRFLQKTVQEHYQDFDKNSVQDITGALFKHSKKGPRASGNLIPQEKIVNLVNDIFGAGFDTIATAISWSLMYLVTKPEIQRKIQKELDAVIGRGRRPRLSDRPQLPYLEAFILETFRHSSFVPFTIPHSTTRDTTLNGFYIPRECCVFINQWQVNHDPQLWGDPSEFRPERFLTAEGTTINKPLSEKIMLFGLGKRRCIGEVLGKWEVFLFLAILLQQLEFSVPPGVKVDLTPIYGLTMKHARCEHFQARLRFSIK |
| 996 | sp|Q9BT78|CSN4\_HUMAN | MAAAVRQDLAQLMNSSGSHKDLAGKYRQILEKAIQLSGAEQLEALKAFVEAMVNENVSLVISRQLLTDFCTHLPNLPDSTAKEIYHFTLEKIQPRVISFEEQVASIRQHLASIYEKEEDWRNAAQVLVGIPLETGQKQYNVDYKLETYLKIARLYLEDDDPVQAEAYINRASLLQNESTNEQLQIHYKVCYARVLDYRRKFIEAAQRYNELSYKTIVHESERLEALKHALHCTILASAGQQRSRMLATLFKDERCQQLAAYGILEKMYLDRIIRGNQLQEFAAMLMPHQKATTADGSSILDRAVIEHNLLSASKLYNNITFEELGALLEIPAAKAEKIASQMITEGRMNGFIDQIDGIVHFETREALPTWDKQIQSLCFQVNNLLEKISQTAPEWTAQAMEAQMAQ |
| 997 | sp|P34791|CP20C\_ARATH | MASSSSMQMVHTSRSIAQIGFGVKSQLVSANRTTQSVCFGARSSGIALSSRLHYASPIKQFSGVYATTKHQRTACVKSMAAEEEEVIEPQAKVTNKVYFDVEIGGEVAGRIVMGLFGEVVPKTVENFRALCTGEKKYGYKGSSFHRIIKDFMIQGGDFTEGNGTGGISIYGAKFEDENFTLKHTGPGILSMANAGPNTNGSQFFICTVKTSWLDNKHVVFGQVIEGMKLVRTLESQETRAFDVPKKGCRIYACGELPLDA |
| 998 | sp|P04632|CPNS1\_HUMAN | MFLVNSFLKGGGGGGGGGGGLGGGLGNVLGGLISGAGGGGGGGGGGGGGGGGGGGGTAMRILGGVISAISEAAAQYNPEPPPPRTHYSNIEANESEEVRQFRRLFAQLAGDDMEVSATELMNILNKVVTRHPDLKTDGFGIDTCRSMVAVMDSDTTGKLGFEEFKYLWNNIKRWQAIYKQFDTDRSGTICSSELPGAFEAAGFHLNEHLYNMIIRRYSDESGNMDFDNFISCLVRLDAMFRAFKSLDKDGTGQIQVNIQEWLQLTMYS |
| 999 | sp|Q9Y6A2|CP46A\_HUMAN | MSPGLLLLGSAVLLAFGLCCTFVHRARSRYEHIPGPPRPSFLLGHLPCFWKKDEVGGRVLQDVFLDWAKKYGPVVRVNVFHKTSVIVTSPESVKKFLMSTKYNKDSKMYRALQTVFGERLFGQGLVSECNYERWHKQRRVIDLAFSRSSLVSLMETFNEKAEQLVEILEAKADGQTPVSMQDMLTYTAMDILAKAAFGMETSMLLGAQKPLSQAVKLMLEGITASRNTLAKFLPGKRKQLREVRESIRFLRQVGRDWVQRRREALKRGEEVPADILTQILKAEEGAQDDEGLLDNFVTFFIAGHETSANHLAFTVMELSRQPEIVARLQAEVDEVIGSKRYLDFEDLGRLQYLSQVLKESLRLYPPAWGTFRLLEEETLIDGVRVPGNTPLLFSTYVMGRMDTYFEDPLTFNPDRFGPGAPKPRFTYFPFSLGHRSCIGQQFAQMEVKVVMAKLLQRLEFRLVPGQRFGLQEQATLKPLDPVLCTLRPRGWQPAPPPPPC |
| 1000 | sp|Q9SA52|CP41B\_ARATH | MAKMMMLQQHQPSFSLLTSSLSDFNGAKLHLQVQYKRKVHQPKGALYVSASSEKKILIMGGTRFIGLFLSRILVKEGHQVTLFTRGKSPIAKQLPGESDQDFADFSSKILHLKGDRKDYDFVKSSLSAEGFDVVYDINGREAEEVEPILEALPKLEQYIYCSSAGVYLKSDILPHCEEDAVDPKSRHKGKLETESLLQSKGVNWTSIRPVYIYGPLNYNPVEEWFFHRLKAGRPIPVPNSGIQISQLGHVKDLATAFLNVLGNEKASREIFNISGEKYVTFDGLAKACAKAGGFPEPEIVHYNPKEFDFGKKKAFPFRDQHFFASVEKAKHVLGWKPEFDLVEGLTDSYNLDFGRGTFRKEADFTTDDMILSKKLVLQ |
| 1001 | sp|Q8IUI8|CRLF3\_HUMAN | MRGAMELEPELLLQEARENVEAAQSYRRELGHRLEGLREARRQIKESASQTRDVLKQHFNDLKGTLGKLLDERLVTLLQEVDTIEQETIKPLDDCQKLIEHGVNTAEDLVREGEIAMLGGVGEENEKLWSFTKKASHIQLDSLPEVPLLVDVPCLSAQLDDSILNIVKDHIFKHGTVASRPPVQIEELIEKPGGIIVRWCKVDDDFTAQDYRLQFRKCTSNHFEDVYVGSETEFIVLHIDPNVDYQFRVCARGDGRQEWSPWSVPQIGHSTLVPHEWTAGFEGYSLSSRRNIALRNDSESSGVLYSRAPTYFCGQTLTFRVETVGQPDRRDSIGVCAEKQDGYDSLQRDQAVCISTNGAVFVNGKEMTNQLPAVTSGSTVTFDIEAVTLGTTSNNEGGHFKLRVTISSNNREVVFDWLLDQSCGSLYFGCSFFYPGWKVLVF |
| 1002 | sp|Q9UKF6|CPSF3\_HUMAN | MSAIPAEESDQLLIRPLGAGQEVGRSCIILEFKGRKIMLDCGIHPGLEGMDALPYIDLIDPAEIDLLLISHFHLDHCGALPWFLQKTSFKGRTFMTHATKAIYRWLLSDYVKVSNISADDMLYTETDLEESMDKIETINFHEVKEVAGIKFWCYHAGHVLGAAMFMIEIAGVKLLYTGDFSRQEDRHLMAAEIPNIKPDILIIESTYGTHIHEKREEREARFCNTVHDIVNRGGRGLIPVFALGRAQELLLILDEYWQNHPELHDIPIYYASSLAKKCMAVYQTYVNAMNDKIRKQININNPFVFKHISNLKSMDHFDDIGPSVVMASPGMMQSGLSRELFESWCTDKRNGVIIAGYCVEGTLAKHIMSEPEEITTMSGQKLPLKMSVDYISFSAHTDYQQTSEFIRALKPPHVILVHGEQNEMARLKAALIREYEDNDEVHIEVHNPRNTEAVTLNFRGEKLAKVMGFLADKKPEQGQRVSGILVKRNFNYHILSPCDLSNYTDLAMSTVKQTQAIPYTGPFNLLCYQLQKLTGDVEELEIQEKPALKVFKNITVIQEPGMVVLEWLANPSNDMYADTVTTVILEVQSNPKIRKGAVQKVSKKLEMHVYSKRLEIMLQDIFGEDCVSVKDDSILSVTVDGKTANLNLETRTVECEEGSEDDESLREMVELAAQRLYEALTPVH |
| 1003 | sp|Q9UBG3|CRNN\_HUMAN | MPQLLQNINGIIEAFRRYARTEGNCTALTRGELKRLLEQEFADVIVKPHDPATVDEVLRLLDEDHTGTVEFKEFLVLVFKVAQACFKTLSESAEGACGSQESGSLHSGASQELGEGQRSGTEVGRAGKGQHYEGSSHRQSQQGSRGQNRPGVQTQGQATGSAWVSSYDRQAESQSQERISPQIQLSGQTEQTQKAGEGKRNQTTEMRPERQPQTREQDRAHQTGETVTGSGTQTQAGATQTVEQDSSHQTGRTSKQTQEATNDQNRGTETHGQGRSQTSQAVTGGHAQIQAGTHTQTPTQTVEQDSSHQTGSTSTQTQESTNGQNRGTEIHGQGRSQTSQAVTGGHTQIQAGSHTETVEQDRSQTVSHGGAREQGQTQTQPGSGQRWMQVSNPEAGETVPGGQAQTGASTESGRQEWSSTHPRRCVTEGQGDRQPTVVGEEWVDDHSRETVILRLDQGNLHTSVSSAQGQDAAQSEEKRGITARELYSYLRSTKP |
| 1004 | sp|A8K7I4|CLCA1\_HUMAN | MGPFKSSVFILILHLLEGALSNSLIQLNNNGYEGIVVAIDPNVPEDETLIQQIKDMVTQASLYLLEATGKRFYFKNVAILIPETWKTKADYVRPKLETYKNADVLVAESTPPGNDEPYTEQMGNCGEKGERIHLTPDFIAGKKLAEYGPQGRAFVHEWAHLRWGVFDEYNNDEKFYLSNGRIQAVRCSAGITGTNVVKKCQGGSCYTKRCTFNKVTGLYEKGCEFVLQSRQTEKASIMFAQHVDSIVEFCTEQNHNKEAPNKQNQKCNLRSTWEVIRDSEDFKKTTPMTTQPPNPTFSLLQIGQRIVCLVLDKSGSMATGNRLNRLNQAGQLFLLQTVELGSWVGMVTFDSAAHVQNELIQINSGSDRDTLAKRLPAAASGGTSICSGLRSAFTVIRKKYPTDGSEIVLLTDGEDNTISGCFNEVKQSGAIIHTVALGPSAAQELEELSKMTGGLQTYASDQVQNNGLIDAFGALSSGNGAVSQRSIQLESKGLTLQNSQWMNGTVIVDSTVGKDTLFLITWTMQPPQILLWDPSGQKQGGFVVDKNTKMAYLQIPGIAKVGTWKYSLQASSQTLTLTVTSRASNATLPPITVTSKTNKDTSKFPSPLVVYANIRQGASPILRASVTALIESVNGKTVTLELLDNGAGADATKDDGVYSRYFTTYDTNGRYSVKVRALGGVNAARRRVIPQQSGALYIPGWIENDEIQWNPPRPEINKDDVQHKQVCFSRTSSGGSFVASDVPNAPIPDLFPPGQITDLKAEIHGGSLINLTWTAPGDDYDHGTAHKYIIRISTSILDLRDKFNESLQVNTTALIPKEANSEEVFLFKPENITFENGTDLFIAIQAVDKVDLKSEISNIARVSLFIPPQTPPETPSPDETSAPCPNIHINSTIPGIHILKIMWKWIGELQLSIA |
| 1005 | sp|O43174|CP26A\_HUMAN | MGLPALLASALCTFVLPLLLFLAAIKLWDLYCVSGRDRSCALPLPPGTMGFPFFGETLQMVLQRRKFLQMKRRKYGFIYKTHLFGRPTVRVMGADNVRRILLGEHRLVSVHWPASVRTILGSGCLSNLHDSSHKQRKKVIMRAFSREALECYVPVITEEVGSSLEQWLSCGERGLLVYPEVKRLMFRIAMRILLGCEPQLAGDGDSEQQLVEAFEEMTRNLFSLPIDVPFSGLYRGMKARNLIHARIEQNIRAKICGLRASEAGQGCKDALQLLIEHSWERGERLDMQALKQSSTELLFGGHETTASAATSLITYLGLYPHVLQKVREELKSKGLLCKSNQDNKLDMEILEQLKYIGCVIKETLRLNPPVPGGFRVALKTFELNGYQIPKGWNVIYSICDTHDVAEIFTNKEEFNPDRFMLPHPEDASRFSFIPFGGGLRSCVGKEFAKILLKIFTVELARHCDWQLLNGPPTMKTSPTVYPVDNLPARFTHFHGEI |
| 1006 | sp|P51869|CP4F4\_RAT | MPQLDLSWLGLRLETSLPWLLLLLIGASWLLVRVLTQTYIFYRTYQHLCDFPQPPKWNWFLGHLGMITPTEQGLKQVTKLVATYPQGFMTWLGPILPIITLCHPDVIRSVLSASASVALKEVIFYSFLKPWLGDGLLLSDGDKWSCHRRMLTPAFHFNILKPYVKIFNDSTNIMHAKWQDLASGGSARLDMFKNISLMTLDSLQKCVFSFDSNCQEKPSEYISAILELSALVAKRYQQLLLHTDSLYQLTHNGRRFHKACKLVHNFTDAVIQGRRRALPSQHEDDILKAKARSKTLDFIDVLLLTKDEDGKELSDEDIRAEADTFMFEGHDTTASGLSWILYNLARHPEYQERCRQEVRELLRDRESTEIEWDDLAQLPFLTMCIKESLRLHPPVTVISRRCTQDIVLPDGRVIPKGVICIINIFATHHNPTVWPDPEVYDPFRFDPENIKDRSPLAFIPFSAGPRNCIGQTFAMNEMKVALALTLLRFRVLPDDKEPRRKPELILRAEGGLWLRVEPLSTQ |
| 1007 | sp|Q9MZY0|CP2E1\_CANLF | MAALGITVALLVWMATLMLISIWKQIYSRWKLPPGPFPLPIIGNILQVDIKNVPKSLAKLAEQYGPVFTLYLGSQRTVVLHGYKAVKEVLLDHKNDLSGRGEVFAFQSHKDRGITFNNGPGWKDTRRLSLSTLRDYGMGKRGNEERIQREIPFLLEALRGTRGQPFDPTFLLGFAPFNVIADILFHKHFDYSDQTGLRIQKLFNENFHLLSTGWLQLYNIFPSYLHYLPGSHRKVLRNVAELKDYSLERVKEHQESLDPTCSRDFTDCLLQELQKERYGTEPWYTLDNIAVTVADLFFAGTETTSTTLRYGLLILMKYPEVEEKLHEEIDRVIGPSRVPAIKDRLEMPYMDAVVHEIQRFIDLLPSNLPHVANQDTMFRGYVIPKGTVVIPTLDSVLFDKQEFPDPEKFKPEHFLNENGKFKYSDYFKAFSAGKRVCVGEGLARMELFLFLSAILQHFNLKSLVDPKDIDLSPCTIGFAKIPPHYKLCVVPRSG |
| 1008 | sp|Q5KQT7|CP1A1\_FELCA | MMLSVFGLSVPISATELLLASFVFCLVFWVVRAWQPRVPKGLKSPPGPWGWPLLGHVLTLGKNPHLVLARLSQHYGDVLQIRIGSTPVLVLSGLDTIRQALVRQGDDFKGRPNLYSFTLISEGQSMSFSPDSGPVWAARRRLAQNALKSFSIASDPASSSSCYLEDHVSKEAEYLIGKFQELMAKVGHFDPYRYVVVSVANVICAMCFGRRYDHDDQELLSIVNLSNEFGDGTASGNPVDFFPILRYLPNPALDFFKDVNEKFSIFIHKMVKEHYKTFEKGHIRDITDSLIEHCQDKRLDENANIQLSDEKIVNVVSDLFGAGFDTVTTAISWCLMYLVTSPNVQEKIQKELDTVIGRERQPRLSDRLQLPYMEAFILEMFRHTSFVPFTIPHSTTKDTSLSGFYIPKERCVFVNQWQINHDQKLWGDPSEFRPERFLTPDGTINKALSEKVILFGLGKRKCIGETIARLEVFLFLAILLQQVEFSVPQGTKVDMTPIYGLTMKHARCEHFQVRMRT |
| 1009 | sp|A5YM72|CRNS1\_HUMAN | MLLCLSPAWLMKVPAPGQPGEAALLVSKAVSFHPGGLTFLDDFVPPRRATYFLAGLGLGPGRGREAAELARDLTCPTGASAELARLLEDRLLTRQLLAQQGGVAVPATLAFTYKPPGLLRGGDASLGLRLVELSGKEGQETLVKEEVEAFLRSEALGDILQVAVKLSGWRWRGRQAWRLHPRAELGAVVDTVLALLEKLEEEESVLVEAVYPPAQLPCSDGPSPGPGLAVRICAVVCRTQGDRPLLSKVVCGVGRGDRPLRHHNSLPRTLEVALAQCGLGEEAQVAAVRQRVKAAAEAALAAVLALEAGLSAEQRGGRRAHTDFLGVDFALTAAGGVLTPVALELNGGLCLEACGALEGLWAAPRLGPAADEAVAAPLVETMLRRSARCLMEGKQLLVVGAGGVSKKFVWEAARDYGLQLHLVESDPNHFASQLVQTFIHFDMTEHRRDEENARLLAELVRARGLKLDGCFSYWDDCLVLTALLCQELGLPCSSPAAMRLAKQKSLTQLHLLHHHGPPWPAPSLHAVPCCPLESEADVERAVHQVPLPGVMKLEFGAGAVGVRLVEDAPQCHEHFSRITRDLQGEADHPGIGLGWGNAMLLMEFVEGTEHDVDLVLFGGRLLAAFVSDNGPTRLPGFTETAACMPTGLAPEQEAQMVQAAFRCCLGCGLLDGVFNVELKLTGAGPRLIEINPRMGGFYLRDWILELYGVDLLLAAVMVACGLRPALPTRPRARGHLVGVMCLVSQHLQALSSTASRETLQALHDRGLLRLNLLEEALVPGEYEEPYCSVACAGPSPTEARLRLLGLCQGLGIDGPSYPVAHFLSHFK |
| 1010 | sp|Q24478|CP190\_DROME | MGEVKSVKVDNWGVFFLQKLQNFFNKTDYCDLTLQFRDNSQLKVHRLVLSACTDYFNVLEQTCEIVDDALIMPNEFQADVVVPIVNFMYTGTLEFELKMYGKLLRTAKEMNMTVLLKLLEAHRRTMENVNRQQRPPSPKGIRRRTVGQPSSGLPQQRVLGPSPQSRNVATPIAQRANTQRGSTGNTMSRTSGGSNRSPYGDSSNVKQEPTSPFEQLRKGYNNNKRPAQTSLLSPPSKKPSLEEVKEFAEQQRMRKQIAAEYGDNDPEYDGGMLYDDVHAGDDDDDDMPPQPSTSKQQSPQGTQTQLEHGSTTIILKQDSPSQTPTIIVKDSSNAKLNHTKIIAEVLRQYPHIVKGHKNIKLKIMPNTPAAPTEKSAPATVKPPANQSSATTSPHKKLHVSFKADKSTPLITAQQKAASSQQKSGTSQTTGNQGTGANPPANTAAAQKRRIDSKTMHALIAQGAENTTGPWLCLRCGVNGRPISIPSYRGFRRHLINTHKETIDPALCEHCGWRSVNNRELHFHMYMEHQTKSLLYTFAECALCNQSYRTKGELEAHINEVHTDDNKQQCIYCNKVFEQELQLYRHMKSYHKEQALEDGIIDETDEEFLGSQDEEEEAEGDEEQEPEQTGKVRILSDISLPATSAITVQQAQQEQLQEEDVEQVQQEVKFVGADGNEVELTDEQRKEILSQLNQQQAGATAGGVVMVLSEPEAEHVKQETDEKSLAGTEEEYDDSQIYSELGAADSVESAKKNIADESKESIDNLEWAENLIAESEEQSNKEPKSDKPRDDISEKLKELTGDWTEDENDDDVDDKPATAELASELANKDPEPTVHEEEDDIDLALQSLHKGPEEATEEKASEESVTSADDAVDAVPNINSQPEKMDVDSEAADEKASKAEVQIKKEAELENDQEEFIKEDSPIPHSDSVAELREAVTASEGEDDVHLEADNIRKELLDELIAEAEKPDQEKDIVQSEENATTEALDRSVTDEDDLVPPTQVSTEQMEIDEPAAEKAAENNEDTRTADEKEAVEDKPNQTQDVTTAEKPTLESAKAGDEATSGEAASVDKVKSLISEWGDDDEDEDENGVSAAAKEEL |
| 1011 | sp|Q95078|CP18A\_DROME | MLADSYLIKFVLRQLQVQQDGDAQHLLMVFLGLLALVTLLQWLVRNYRELRKLPPGPWGLPVIGYLLFMGSEKHTRFMELAKQYGSLFSTRLGSQLTVVMSDYKMIRECFRREEFTGRPDTPFMQTLNGYGIINSTGKLWKDQRRFLHDKLRQFGMTYMGNGKQQMQKRIMTEVHEFIGHLHASDGQPVDMSPVISVAVSNVICSLMMSTRFSIDDPKFRRFNFLIEEGMRLFGEIHTVDYIPTMQCFPSISTAKNKIAQNRAEMQRFYQDVIDDHKRSFDPNNIRDLVDFYLCEIEKAKAEGTDAELFDGKNHEEQLVQVIIDLFSAGMETIKTTLLWINVFMLRNPKEMRRVQDELDQVVGRHRLPTIEDLQYLPITESTILESMRRSSIVPLATTHSPTRDVELNGYTIPAGSHVIPLINSVHMDPNLWEKPEEFRPSRFIDTEGKVRKPEYFIPFGVGRRMCLGDVLARMELFLFFASFMHCFDIALPEGQPLPSLKGNVGATITPESFKVCLKRRPLGPTAADPHHMRNVGAN |
| 1012 | sp|Q60571|CRHBP\_MOUSE | MSPNFKLQCHFILILLTALRGESRYLEVQEAAVYDPLLLFSANLKRDLAEEQPYRRALRCLDMLSLPGQFTFTADRPQLHCAAFFIGEPEEFITIHYDLVSIDCQGGDFLKVFDGWILKGEKFPSSQDHPLPTMKRYTDFCESGLTRRSIRSSQNVAMVFFRVHEPGNGFTITIKTDPNLFPCNVISQTPSGRFTLVVPYQHQNCSFSIIYPVAIKISDLTLGHLHGLQLKKPAAGCGGTGDFVELLGGTGLDPSKMMPLADLCYPFLGPAQMKISCDNAVVRMVSSGKHINRVTFEYRQLEPFELETSTGNSIPEYCLSSL |
| 1013 | sp|P07320|CRGD\_HUMAN | MGKITLYEDRGFQGRHYECSSDHPNLQPYLSRCNSARVDSGCWMLYEQPNYSGLQYFLRRGDYADHQQWMGLSDSVRSCRLIPHSGSHRIRLYEREDYRGQMIEFTEDCSCLQDRFRFNEIHSLNVLEGSWVLYELSNYRGRQYLLMPGDYRRYQDWGATNARVGSLRRVIDFS |
| 1014 | sp|Q9WZ31|CORA\_THEMA | MEEKRLSAKKGLPPGTLVYTGKYREDFEIEVMNYSIEEFREFKTTDVESVLPFRDSSTPTWINITGIHRTDVVQRVGEFFGIHPLVLEDILNVHQRPKVEFFENYVFIVLKMFTYDKNLHELESEQVSLILTKNCVLMFQEKIGDVFDPVRERIRYNRGIIRKKRADYLLYSLIDALVDDYFVLLEKIDDEIDVLEEEVLERPEKETVQRTHQLKRNLVELRKTIWPLREVLSSLYRDVPPLIEKETVPYFRDVYDHTIQIADTVETFRDIVSGLLDVYLSSVSNKTNEVMKVLTIIATIFMPLTFIAGIYGMNFEYMPELRWKWGYPVVLAVMGVIAVIMVVYFKKKKWL |
| 1015 | sp|P06850|CRF\_HUMAN | MRLPLLVSAGVLLVALLPCPPCRALLSRGPVPGARQAPQHPQPLDFFQPPPQSEQPQQPQARPVLLRMGEEYFLRLGNLNKSPAAPLSPASSLLAGGSGSRPSPEQATANFFRVLLQQLLLPRRSLDSPAALAERGARNALGGHQEAPERERRSEEPPISLDLTFHLLREVLEMARAEQLAQQAHSNRKLMEIIGK |
| 1016 | sp|Q2XNC8|CP2D6\_PANTR | MGLEALVPLAVIVTIFLLLVDLMHRRQRWAARYPPGPLPLPGLGNLLHVDFQNTPYCFDQLRRRFGDVFSLQLAWTPVVVLNGLAAVREALVTHGEDTADRPPVPITQILGFGPRSQGVFLARYGPAWREQRRFSVSTLRNLGLGKKSLEQWVTEEAACLCAAFANHSGRPFRPNGLLDKAVSNVIASLTCGRRFEYDDPRFLRLLDLAQEGLKEESGFLREVLNAIPVLLHIPALAGKVLRFQKAFLTQLDELLTEHRMTWDPAQPPRDLTEAFLAEMEKAKGNPESSFNDENLRIVVADLFSAGIVTTSTTLAWGLLLMILHPDVQRRVQQEIDDVIGQVRRPEMGDQARMPYTTAVIHEVQRFGDIVPLGVTHMTSRDIEVQGFRIPKGTTLFTNLSSVLKDKAVWEKPFRFHPEHFLDAQGHFVKPEAFLPFSAGRRACLGEPLARMELFLFFTSLLQHFSFSVPTGQPRPSHHGVFAFLVTPSPYELCAVPR |
| 1017 | sp|Q8RWD9|ACBP5\_ARATH | MAHMVRASSGLSYPERFYAAASYVGLDGSQSSVKQLSSKFSNDTSLLLYTLHQQATLGPCSIPKPSAWNPVEQSKWKSWQGLGTMPSIEAMRLFVKILEEADPGWYPRTSNSVLDPAVHVQINSTKAEPSFESGASFGETKTITSEDGRLTETQDKDVVLEDPDTVSVYNQWTAPRTSGQPPKARYQHGAAVIQDKMYMYGGNHNGRYLGDLHVLDLKNWTWSRVETKVVTGSQETSSPAKLTHCAGHSLIPWDNQLLSIGGHTKDPSESMPVMVFDLHCCSWSILKTYGKPPISRGGQSVTLVGKSLVIFGGQDAKRSLLNDLHILDLDTMTWEEIDAVGSPPTPRSDHAAAVHAERYLLIFGGGSHATCFDDLHVLDLQTMEWSRHTQQGDAPTPRAGHAGVTIGENWYIVGGGDNKSGASKTVVLNMSTLAWSVVTSVQEHVPLASEGLSLVVSSYNGEDIVVAFGGYNGHYNNEVNVLKPSHKSSLKSKIMGASAVPDSFSAVNNATTRDIESEIKVEGKADRIITTLKSEKEEVEASLNKEKIQTLQLKEELAEIDTRNTELYKELQSVRNQLAAEQSRCFKLEVEVAELRQKLQTMETLQKELELLQRQRAVASEQAATMNAKRQSSGGVWGWLAGTPPPKT |
| 1018 | sp|Q9LK50|AB26G\_ARATH | MEIRRSTEEVEENHVMQITGSNGIVHNMEFMPQAYLRNQYSSEIDIDEEFVSTYPLEDAPLPIFLKFEDVEYKVRNSHASSANLVKTMVSKVVTHTNPDPDGYKHILKGITGSTGPGEILALMGPSGSGKTTLLKIMGGRLTDNVKGKLTYNDIPYSPSVKRRIGFVTQDDVLLPQLTVEETLAFAAFLRLPSSMSKEQKYAKIEMIIKELGLERCRRTRVGGGFVKGISGGERKRASIAYEILVDPSLLLLDEPTSGLDSTSATKLLHILQGVAKAGRTVITTIHQPSSRMFHMFDKLLLISEGHPAFYGKARESMEYFSSLRILPEIAMNPAEFLLDLATGQVSDISLPDELLAAKTAQPDSEEVLLKYLKQRYKTDLEPKEKEENHRNRKAPEHLQIAIQVKKDWTLSWWDQFLILSRRTFRERRRDYFDKLRLVQSLGVAVVLGLLWWKSKTDTEAHLRDQVGLMFYICIFWTSSSLFGAVYVFPFEKIYLVKERKAEMYRLSVYYVCSTLCDMVAHVLYPTFFMIIVYFMAEFNRNIPCFLFTVLTILLIAITSQGAGEFLGASVLSIKRAGMIASLVLMLFLLTGGYYVQHIPKFMQWLKYLSFMHYGFRLLLKVQYSADQLFECGSKGGCRTLQSSSSFDTINLNGGLQELWVLLAMAFGYRLCAYFCLRKKISICHL |
| 1019 | sp|P0DKR6|3SX1\_DENPO | MKTLLLTLLVVTIVCLDLGYSLKCYQHGKVVTCHRDMKFCYHNTGMPFRNLKLILQGCSSSCSETENNKCCSTDRCNK |
| 1020 | sp|Q9NPB9|ACKR4\_HUMAN | MALEQNQSTDYYYEENEMNGTYDYSQYELICIKEDVREFAKVFLPVFLTIVFVIGLAGNSMVVAIYAYYKKQRTKTDVYILNLAVADLLLLFTLPFWAVNAVHGWVLGKIMCKITSALYTLNFVSGMQFLACISIDRYVAVTKVPSQSGVGKPCWIICFCVWMAAILLSIPQLVFYTVNDNARCIPIFPRYLGTSMKALIQMLEICIGFVVPFLIMGVCYFITARTLMKMPNIKISRPLKVLLTVVIVFIVTQLPYNIVKFCRAIDIIYSLITSCNMSKRMDIAIQVTESIALFHSCLNPILYVFMGASFKNYVMKVAKKYGSWRRQRQSVEEFPFDSEGPTEPTSTFSI |
| 1021 | sp|Q9LK64|AB3C\_ARATH | MDFLGSTTGSGTLAMLFSFSESILPLDSRSFLLKPLFLRWLSGFLHSVLLLVLFFSWVRKKIRGDSGVTESLKDRRDFGFKSALFCSLALSLLNLVLMSLSGFYWYESGWLDNEQLVSSLGFLLGMVSWGVLSICLHRCRDCEHKKAPFLLRLWLVFYLVVSCYSLVVDFVMYERRETVPVHLLVFDIVAFIAAVFLGYVAVLKKDRSNSNGVLEEPLLNGGDSRVGGDDSVELNKTNGSGEATPYSRAGILSLLTFSWMSPLIDIGNKKTLDLEDVPQLHDTDSVVGLAPKFRSMLESPDGGERSGVTTFKLIKALYFTAQWEILVTAFFAFIYTVASYVGPALIDTFVQYLNGRRQYNHEGYVLVITFFAAKIVECLSQRHWFFRLQKVGIRMRSALVAMIYEKGLTLSCQSKQGRTSGEIINFMTVDAERIGNFSWYMHDPWMVLLQVGLALWILYRNLGLASIAALVATIIVMLINFPFGRMQERFQEKLMEAKDSRMKSTSEILRNMRILKLQGWEMKFLSKIFDLRKSEEGWLKKYVYNSAVISFVFWGAPTLVSVSTFGACILLGIPLESGKILSALATFRILQEPIYNLPDTISMIVQTKVSLDRLASYLCLDNLQPDIVERLPKGSSDVAVEVINSTLSWDVSSSNPTLKDINFKVFPGMKVAVCGTVGSGKSSLLSSLLGEVPKVSGSLKVCGTKAYVAQSPWIQSGKIEDNILFGKPMERERYDKVLEACSLSKDLEILSFGDQTVIGERGINLSGGQKQRIQIARALYQDADIYLFDDPFSAVDAHTGSHLFKEVLLGLLCSKSVIYVTHQVEFLPAADLILVMKDGRISQAGKYNDILNSGTDFMELIGAHQEALAVVDSVDANSVSEKSALGQENVIVKDAIAVDEKLESQDLKNDKLESVEPQRQIIQEEEREKGSVALDVYWKYITLAYGGALVPFILLGQVLFQLLQIGSNYWMAWATPVSEDVQAPVKLSTLMIVYVALAFGSSLCILLRATLLVTAGYKTATELFHKMHHCIFRSPMSFFDSTPSGRIMSRASTDQSAVDLELPYQFGSVAITVIQLIGIIGVMSQVSWLVFLVFIPVVAASIWYQRYYIAAARELSRLVGVCKAPLIQHFSETISGATTIRSFSQEFRFRSDNMRLSDGYSRPKFYTAGAMEWLCFRLDMLSSLTFVFSLVFLVSIPTGVIDPSLAGLAVTYGLSLNTLQAWLIWTLCNLENKIISVERILQYASVPSEPPLVIESNRPEQSWPSRGEVEIRDLQVRYAPHMPLVLRGITCTFKGGLRTGIVGRTGSGKSTLIQTLFRIVEPSAGEIRIDGVNILTIGLHDLRLRLSIIPQDPTMFEGTMRSNLDPLEEYTDDQIWEALDKCQLGDEVRKKEQKLDSSVSENGDNWSMGQRQLVCLGRVLLKRSKILVLDEATASVDTATDNLIQKTLREHFSDCTVITIAHRISSVIDSDMVLLLSNGIIEEYDTPVRLLEDKSSSFSKLVAEYTSRSSSSFD |
| 1022 | sp|P0A9G6|ACEA\_ECOLI | MKTRTQQIEELQKEWTQPRWEGITRPYSAEDVVKLRGSVNPECTLAQLGAAKMWRLLHGESKKGYINSLGALTGGQALQQAKAGIEAVYLSGWQVAADANLAASMYPDQSLYPANSVPAVVERINNTFRRADQIQWSAGIEPGDPRYVDYFLPIVADAEAGFGGVLNAFELMKAMIEAGAAAVHFEDQLASVKKCGHMGGKVLVPTQEAIQKLVAARLAADVTGVPTLLVARTDADAADLITSDCDPYDSEFITGERTSEGFFRTHAGIEQAISRGLAYAPYADLVWCETSTPDLELARRFAQAIHAKYPGKLLAYNCSPSFNWQKNLDDKTIASFQQQLSDMGYKFQFITLAGIHSMWFNMFDLANAYAQGEGMKHYVEKVQQPEFAAAKDGYTFVSHQQEVGTGYFDKVTTIIQGGTSSVTALTGSTEESQF |
| 1023 | sp|Q9M2L4|ACA11\_ARATH | MSNLLKDFEVASKNPSLEARQRWRSSVGLVKNRARRFRMISNLDKLAENEKKRCQIQEKIRVVFYVQKAAFQFIDAGARPEYKLTDEVKKAGFYVEADELASMVRNHDTKSLTKIGGPEGIAQKVSVSLAEGVRSSELHIREKIYGENRYTEKPARSFLTFVWEALQDITLIILMVCAVVSIGVGVATEGFPKGMYDGTGILLSIILVVMVTAISDYKQSLQFRDLDREKKKIIIQVTRDGSRQEVSIHDLVVGDVVHLSIGDQVPADGIFISGYNLEIDESSLSGESEPSHVNKEKPFLLSGTKVQNGSAKMLVTTVGMRTEWGKLMDTLSEGGEDETPLQVKLNGVATIIGKIGLGFAVLTFVVLCIRFVVEKATAGSITEWSSEDALTLLDYFAIAVTIIVVAVPEGLPLAVTLSLAFAMKQLMSDRALVRHLAACETMGSSTCICTDKTGTLTTNHMVVNKVWICENIKERQEENFQLNLSEQVKNILIQAIFQNTGSEVVKDKEGKTQILGSPTERAILEFGLLLGGDVDTQRREHKILKIEPFNSDKKKMSVLTSHSGGKVRAFCKGASEIVLKMCEKVVDSNGESVPLSEEKIASISDVIEGFASEALRTLCLVYTDLDEAPRGDLPNGGYTLVAVVGIKDPVRPGVREAVQTCQAAGITVRMVTGDNISTAKAIAKECGILTAGGVAIEGSDFRNLPPHEMRAILPKIQVMARSLPLDKHTLVNNLRKMGEVVAVTGDGTNDAPALHEADIGLAMGIAGTEVAKENADVIIMDDNFATIVNVAKWGRAVYINIQKFVQFQLTVNVVALIINFVSACITGSAPLTAVQLLWVNMIMDTLGALALATEPPNEGLMKRQPIGRTASFITRAMWRNIIGQSIYQLIVLGILNFAGKQILNLNGPDSTIVLNTIIFNSFVFCQVFNEVNSREIEKINVFEGMFKSWVFVAVMTATVGFQVIIVEFLGAFASTVPLSWQHWLLCILIGSVSMILAVGLKCIPVESNRHHDGYELLPSGPSDSA |
| 1024 | sp|P04395|3MG2\_ECOLI | MYTLNWQPPYDWSWMLGFLAARAVSSVETVADSYYARSLAVGEYRGVVTAIPDIARHTLHINLSAGLEPVAAECLAKMSRLFDLQCNPQIVNGALGRLGAARPGLRLPGCVDAFEQGVRAILGQLVSVAMAAKLTARVAQLYGERLDDFPEYICFPTPQRLAAADPQALKALGMPLKRAEALIHLANAALEGTLPMTIPGDVEQAMKTLQTFPGIGRWTANYFALRGWQAKDVFLPDDYLIKQRFPGMTPAQIRRYAERWKPWRSYALLHIWYTEGWQPDEA |
| 1025 | sp|Q9BV23|ABHD6\_HUMAN | MDLDVVNMFVIAGGTLAIPILAFVASFLLWPSALIRIYYWYWRRTLGMQVRYVHHEDYQFCYSFRGRPGHKPSILMLHGFSAHKDMWLSVVKFLPKNLHLVCVDMPGHEGTTRSSLDDLSIDGQVKRIHQFVECLKLNKKPFHLVGTSMGGQVAGVYAAYYPSDVSSLCLVCPAGLQYSTDNQFVQRLKELQGSAAVEKIPLIPSTPEEMSEMLQLCSYVRFKVPQQILQGLVDVRIPHNNFYRKLFLEIVSEKSRYSLHQNMDKIKVPTQIIWGKQDQVLDVSGADMLAKSIANCQVELLENCGHSVVMERPRKTAKLIIDFLASVHNTDNNKKLD |
| 1026 | sp|P02716|ACHD\_MOUSE | MAGPVLTLGLLAALVVCALPGSWGLNEEQRLIQHLFNEKGYDKDLRPVARKEDKVDVALSLTLSNLISLKEVEETLTTNVWIDHAWVDSRLQWDANDFGNITVLRLPPDMVWLPEIVLENNNDGSFQISYACNVLVYDSGYVTWLPPAIFRSSCPISVTYFPFDWQNCSLKFSSLKYTAKEITLSLKQEEENNRSYPIEWIIIDPEGFTENGEWEIVHRAAKLNVDPSVPMDSTNHQDVTFYLIIRRKPLFYIINILVPCVLISFMINLVFYLPGDCGEKTSVAISVLLAQSVFLLLISKRLPATSMAIPLVGKFLLFGMVLVTMVVVICVIVLNIHFRTPSTHVLSEGVKKFFLETLPKLLHMSRPAEEDPGPRALIRRSSSLGYICKAEEYFSLKSRSDLMFEKQSERHGLARRLTTARRPPASSEQVQQELFNEMKPAVDGANFIVNHMRDQNSYNEEKDNWNQVARTVDRLCLFVVTPVMVVGTAWIFLQGVYNQPPLQPFPGDPFSYSEQDKRFI |
| 1027 | sp|O80963|ACCR2\_ARATH | MQPNSHIFVIITISSLIITVSAYGSTGTIAAAFGENGFFCAIDASGKQEVICWDRGNTNRSLNRPPGEISGYSPPMTSLSGGEGFLCAITSNTSRAFCWNLEDPSENLVPRAFQYNSYLQIASGNNHVCAISGLYYSGPDYGPVHCWEYSDNTNFTSGLLWNSSFHNPYIDSLMFRKIVSGDGFSCGVTKDGDLVCWGPKSNLLNFSNNEEFEVLASGRNSVCGVSKDSGQLHCFGDETEFGSLPNRPRFIALSAGANHYCGIREDDHGVECWGRNLNSSSSSSAPNTSGFVAISSSDSTTCGVRELDLVLDCWRVHDSSKADYSPPLELCSPGMCSPRGNCGDGWFAFNASILKESELTSLCSFHNLNICLRCGISCLEGYFPSSTCNPNADRVCTPCSLCQNSSCYGICKIRATKSKEHEQKEQREVRRLVIIIGCSVLGFLVMLIGLSFIPKMTKGSKRDDEERSKMTCCFCFDKNSVEADPDPVPHQSVLLPTAVSLGETKIFRLSELKDATHGFKEFNELGRGSFGFVYKAVLSDGIHVAVKRANAATIIHSNNRGFESELEILCKIRHNNIVNLLGYCSEMGERLLVYEYMPHGTLHDHLHGDLSQLDWSMRLKIMLQAARGLDYLHNEVDPPIIHRDVKTSNILLDGEMCARIADFGLVSSNERDSSNSDREGDVYDFGIVLLEILSGRKAIDRESDPAGIAEWAVPLIRKGKAAAIIDRNICLPRNVEPLLKLAELAELAVRENSNERPNIRNILCFLDLIVKSGLTF |
| 1028 | sp|P00330|ADH1\_YEAST | MSIPETQKGVIFYESHGKLEYKDIPVPKPKANELLINVKYSGVCHTDLHAWHGDWPLPVKLPLVGGHEGAGVVVGMGENVKGWKIGDYAGIKWLNGSCMACEYCELGNESNCPHADLSGYTHDGSFQQYATADAVQAAHIPQGTDLAQVAPILCAGITVYKALKSANLMAGHWVAISGAAGGLGSLAVQYAKAMGYRVLGIDGGEGKEELFRSIGGEVFIDFTKEKDIVGAVLKATDGGAHGVINVSVSEAAIEASTRYVRANGTTVLVGMPAGAKCCSDVFNQVVKSISIVGSYVGNRADTREALDFFARGLVKSPIKVVGLSTLPEIYEKMEKGQIVGRYVVDTSK |
| 1029 | sp|Q3TCJ1|ABRX2\_MOUSE | MAASISGYTFSAVCFHSANSNADHEGFLLGEVRQEETFSISDSQISNTEFLQVIEIHNHQPCSQLFSFYDYASKVNEESLDRILKDRRKKVIGWYRFRRNTQQQMSYREQVIHKQLTRILGVPDLVFLLFSFISTANNSTHALEYVLFRPNRRYNQRISLAIPNLGNTSQQEYKVSSVPNTSQSYAKVIKEHGTDFFDKDGVMKDIRAIYQVYNALQEKVQAVCADVEKSERVVESCQAEVNKLRRQITQKKNEKEQERRLQQALLSRQMPSESLEPAFSPRMSYSGFSAEGRSTLAETEPSDPPPPYSDFHPNNQESTLSHSRMERSVFMPRPQAVGSSSYASTSGGLKFTGSGADLLPSQSAAGDSGEESDDSDYENLIDPAESPHSEYSHSKNSRPSTHPDEDPRNTQTSQI |
| 1030 | sp|A0A1C3NSL9|AJM1\_CAEEL | MSTTTPEKPEEIIDATGTSDTAEKIEVVISKEEPAEQKNEVEEPDYAQVPAESEDDAAQELAPTDSAIQVVHVLEAPQKAELVTIPLAHSEAEDHKLADADRDQEEELVFNEERRKTVTMDDNASLRSASITFDANRDEQDLLNESFASNPTDETVLMQKTKDEMDATSERPRSPLDLPPPPASVVLHPSAPPPPPPPLSSTEVVGNTTTTTTTHYAPKTWNDPSITTAPKIPVSLLSGAQPLPSVLTQRTTTSSYSAPNYSASSMSGVPSDVAPPPPLPIPNQSSSSAASYQHHHASSISKSISSSREDLLSEHATSRSTVREIPVHRAPSTAPSHSSVFEYHMMPTTTSTYHHVETPSDEYYRREVMTRTIITRSTEALSQTPLGRPASPLDRYLPYPTTTTTTSGDGRTREEKTVDYKVTYHRDIEEQERRIREDQARRQQEEQDRRDREDNARRILAQREHQEMERLREQQNLSERALAERERADKERLQQERLLRQQREKKRREEWDRLESIRLAEEEAELARRRALEKERIDREKAEEERKTMERLERERARLERERLEEERRQKEKAETERIERERREHERIEIERIERIKRERIERERREREEKKAEEDRLLRERLELERIERERRELEARERQELELQRREAEDRERQRLEDEAREMRRREEERREAELVADVHRQAEERERLRKRQEREEAERLERIRLEQQKIDMERIDAERRERERKEEERREFELIEAARRKKEARDRDRLDEMERERVREEEERREKERREQERRIAAEKERKRRQEEEEEIARLNELQRAAAARQAQRNAELDRQRQRDELDRKAQELSEREMREKERRDRERANEEAQLADLLERERHNQLIRENERREAVERANNRRLEDRRSRDKLDHIVRERSEKEQFELEKRRLLAEKEAMNRKKNHLLSSETLAKLTQPMYYTTREPEVTTKVERQVIERIDRNVWVEDVPYAPSQSAMGYLDNDENNRDRLYNPNDLNRNGSSRSRYQRAKNEKARRDFYHSSQDSADPVTERFRKSTDDLTTRSRPEYRGPLLQKFHDSEFRTTALNETDGLPYRRMGPSPYEQPFAKLLEETERRYAHYNSRASNPSIYQSSRYYYPERHGQPQHTDNTRAESVVAYERESRRESPADQAHIRSRSADYLMDRRIREETEVPENQLQKTRVEPHDQSPRESRISEYEMRFRKSTEKLTVPDWYRENRPQGQTAQTSTYRYGNGVEPMSTTTTTTTVINGTSSHQQAPPPVPPQPIGNIGLPRGMFDRYKDDIEELRRSRSSLHQTGQQETSNRQGSTLSVGGIVDQGHALPGYTVSEVPNAWNLHTSRTSRVVEVADTFVGTSSHEYGNFTNRYGGRVTIEEVLDSIFQKVTPTNQRLNFDRSYPQADELFQGNVDGPGIYTNNYSVMRQVLKSPERAEHILQNEELFVRCTECHRTRELSAARLFFVSCKHCYTYYCSRECRHNNWPNHSGRCSFARINTLCKDVIMKVREDEQAQAFMSKVARDGFSVSGRGSVNIRLSSPQLAQAYVSNGWRALSAYPNDQLLYYYTVKALIAERKEPSLIALCNRYEPREKFILSVSIIADIEHCPETPPPETRELSAVQFSSPRSRYEAIQNQNAPYFSEFAHNV |
| 1031 | sp|Q93K97|ADPP\_ECOLI | MLKPDNLPVTFGKNDVEIIARETLYRGFFSLDLYRFRHRLFNGQMSHEVRREIFERGHAAVLLPFDPVRDEVVLIEQIRIAAYDTSETPWLLEMVAGMIEEGESVEDVARREAIEEAGLIVKRTKPVLSFLASPGGTSERSSIMVGEVDATTASGIHGLADENEDIRVHVVSREQAYQWVEEGKIDNAASVIALQWLQLHHQALKNEWA |
| 1032 | sp|Q96Q42|ALS2\_HUMAN | MDSKKRSSTEAEGSKERGLVHIWQAGSFPITPERLPGWGGKTVLQAALGVKHGVLLTEDGEVYSFGTLPWRSGPVEICPSSPILENALVGQYVITVATGSFHSGAVTDNGVAYMWGENSAGQCAVANQQYVPEPNPVSIADSEASPLLAVRILQLACGEEHTLALSISREIWAWGTGCQLGLITTAFPVTKPQKVEHLAGRVVLQVACGAFHSLALVQCLPSQDLKPVPERCNQCSQLLITMTDKEDHVIISDSHCCPLGVTLTESQAENHASTALSPSTETLDRQEEVFENTLVANDQSVATELNAVSAQITSSDAMSSQQNVMGTTEISSARNIPSYPDTQAVNEYLRKLSDHSVREDSEHGEKPVPSQPLLEEAIPNLHSPPTTSTSALNSLVVSCASAVGVRVAATYEAGALSLKKVMNFYSTTPCETGAQAGSSAIGPEGLKDSREEQVKQESMQGKKSSSLVDIREEETEGGSRRLSLPGLLSQVSPRLLRKAARVKTRTVVLTPTYSGEADALLPSLRTEVWTWGKGKEGQLGHGDVLPRLQPLCVKCLDGKEVIHLEAGGYHSLALTAKSQVYSWGSNTFGQLGHSDFPTTVPRLAKISSENGVWSIAAGRDYSLFLVDTEDFQPGLYYSGRQDPTEGDNLPENHSGSKTPVLLSCSKLGYISRVTAGKDSYLALVDKNIMGYIASLHELATTERRFYSKLSDIKSQILRPLLSLENLGTTTTVQLLQEVASRFSKLCYLIGQHGASLSSFLHGVKEARSLVILKHSSLFLDSYTEYCTSITNFLVMGGFQLLAKPAIDFLNKNQELLQDLSEVNDENTQLMEILNTLFFLPIRRLHNYAKVLLKLATCFEVASPEYQKLQDSSSCYECLALHLGRKRKEAEYTLGFWKTFPGKMTDSLRKPERRLLCESSNRALSLQHAGRFSVNWFILFNDALVHAQFSTHHVFPLATLWAEPLSEEAGGVNGLKITTPEEQFTLISSTPQEKTKWLRAISQAVDQALRGMSDLPPYGSGSSVQRQEPPISRSAKYTFYKDPRLKDATYDGRWLSGKPHGRGVLKWPDGKMYSGMFRNGLEDGYGEYRIPNKAMNKEDHYVGHWKEGKMCGQGVYSYASGEVFEGCFQDNMRHGHGLLRSGKLTSSSPSMFIGQWVMDKKAGYGVFDDITRGEKYMGMWQDDVCQGNGVVVTQFGLYYEGNFHLNKMMGNGVLLSEDDTIYEGEFSDDWTLSGKGTLTMPNGDYIEGYFSGEWGSGIKITGTYFKPSLYESDKDRPKVFRKLGNLAVPADEKWKAVFDECWRQLGCEGPGQGEVWKAWDNIAVALTTSRRQHRDSPEILSRSQTQTLESLEFIPQHVGAFSVEKYDDIRKYLIKACDTPLHPLGRLVETLVAVYRMTYVGVGANRRLLQEAVKEIKSYLKRIFQLVRFLFPELPEEGSTIPLSAPLPTERKSFCTGKSDSRSESPEPGYVVTSSGLLLPVLLPRLYPPLFMLYALDNDREEDIYWECVLRLNKQPDIALLGFLGVQRKFWPATLSILGESKKVLPTTKDACFASAVECLQQISTTFTPSDKLKVIQQTFEEISQSVLASLHEDFLWSMDDLFPVFLYVVLRARIRNLGSEVHLIEDLMDPYLQHGEQGIMFTTLKACYYQIQREKLN |
| 1033 | sp|P0C5Y8|ALS2\_RAT | MDSKKKSSAEAEGSKERGLVHVWQAGSFSLTPERLPGWGGKTVLQAALGVKHGVLLTEDGEVYSFGTLPWKSEAAEICPSSPLLESALVGHHVVTVATGSFHSGAVTESGVVYMWGENAAGQCAVANQQYVSEPSPVSISDSETSPLLAVRILQLACGEEHTLALSISREIWAWGTGCQLGLITTTFPVTKPQKVEHLAGRVVLQVACGAFHSLALVQCLPPQDLKPVPERCNQCSQLLITMTDKEDHVIISDSHCCPLGVTLSESQAEKHASTVTSPHPETLDGQGEVFENTVAEAELNMGSDQTTSGSAISAQQNIVGMAEVSSARTAPSYPDTQTVTAYLQKLSEHSVKENHEREEKLPQVQPLVEEAVPDLHSPPTTSTSALNSLVVSCASAVGVRVAATYEAGALSLKKVMNFYSTAPCEPGAPSGTASTGPESLKDLREEQVKQESLQGKKSSSLMDIREEESEGGSRRLSLPGLLSQVSPRLLRKAARVKTRTVVLTPTYSGEADALLPSLRTEVWTWGKGKEGQLGHGDVLPRLQPLCVKCLDGKEVIHLEAGGSHSLALTAKSQVYSWGSNTFGQLGHSEFPTTVPRLSKVSSESGVWSVAAGHGYSLFLVDTEDFQPGLYYSGRQDRAEGDTLPENPSGTTTPVLLSCSKLGYISRVTAGKDSYLALVDKNIMGYIASLHELATTERRFYSKLSEIKSQILRPLLSLEHLGTVTTVQLLQEVASRFSKLCYLIGQHGASLSSYLQGMKEARNLVIMKHSSLFLDSYTEYCTSVSNFLVMGGSQLLAKPAIDFLNKNQELLQDLSEVNDENTQLMEILNALFFLPIRRLHNYAKVLLKLATCFEVTSPEYQKLQDSSSCYESLALHLGKKRKEAEYTLSFWKTFPGKMTDSLRKPERRLLCESSNRALSLQHAGRFSVNWFILFNDALVHAQFSTHHVFPLATLWAEPLSEETGGVNGLKITTPEEQFTLISSTPQEKTKWLRAISQAVDQALRGTSDFPLYGGSSTVQRQEPPISRSAKYTFYKDTRLKDATYDGRWLSGKPHGRGVLKWPDGKVYSGTFRNGLEDGYGEYRIPNKALNKEDHYVGHWKEGKMCGQGVYSYASGEVFEGCFQDNMRHGHGLLRSGKLTSSSPSMFIGQWVMDKKAGYGVFDDITRGEKYMGMWQDDACQGNGVVVTQFGLYYEGNFHLNKMMGNGVLLSEDDTIYEGEFSDDWTLCGKGTLTMPNGDYIEGYFSGEWGSGIKITGTYFKPSLYESDKDRPKAFRKLGNLAVAADEKWRAVFDECWRQLGCESPGQGEVWKAWDNIAVALTTNRRQHKDSPEILSRSQTQTLESLEYIPQHVGAFSVEKYDDIKKYLIKACDTPLHPLGRLVETLVAVYRMTYVGVGANRRLLQEAVKEIKSYLKRIFQLVRFLFPELPEEGSTVPLSAPLPTGRRSFCTGKSDSRSESPEPGYVVTSSGLLLPVLLPRLYPPLFMLYALDNDREEDIYWECVLRLNKQPDIALLGFLGVQRKFWPATLSILGESKKVLPSTKDACFASAVECLQQISTTFTPSDKLKVIQQTFEEISQSVLASLQEDFLWSMDDLFPVFLYVVLRARIRNLGSEVHLIEDLMDPYLQHGEQGIMFTTLKACYYQIQREKLN |
| 1034 | sp|Q9FK51|AGLUP\_ARATH | MTSPSHASDRGGGDGDSVENQSPELRKDPVTNRWVIFSPARAKRPTDFKSKSPQNPNPKPSSCPFCIGREQECAPELFRVPDHDPNWKLRVIENLYPALSRNLETQSTQPETGTSRTIVGFGFHDVVIESPVHSIQLSDIDPVGIGDILIAYKKRINQIAQHDSINYIQVFKNQGASAGASMSHSHSQMMALPVVPPTVSSRLDGTKDYFEETGKCCLCEAKSKHFVIDESSHFVSVAPFAATYPFEIWIIPKDHSSHFHHLDDVKAVDLGGLLKLMLQKIAKQLNDPPYNYMIHTSPLKVTESQLPYTHWFLQIVPQLSGVGGFEIGTGCYINPVFPEDVAKVMREVSLT |
| 1035 | sp|Q4R766|ABD12\_MACFA | MRKRTEPVALEHERCAAAGSSSSGSAAAALDADCRLKQNLRLTGTGAAEPRCAADAGMKRALGRRKGLWLRLRKILFCVLGLYIAIPFLIKLCPGIQAKLIFLNFVRVPYFIDLKKPQDQGLNHTCNYYLQPEEDVTIGVWHTVPAVWWKNAQGKDQMWYEDALASSHAIILYLHGNAGTRGGDHRVELYKVLSSLGYHVVTFDYRGWGDSVGTPSERGMTYDALHVFDWIKARSGDNPVYIWGHSLGTGVATNLVRRLCERETPPDALILESPFTNIREEAKSHPFSVIYRYFPGFDWFFLDPITSSGIKFANDENVKHISCPLLILHAEDDPVVPFQLGRKLYSIAAPARSFRDFKVQFVPFHSDLGYRHKYIYKSPELPRILREFLGKSEPEHQH |
| 1036 | sp|Q08548|ALE1\_YEAST | MYNPVDAVLTKIITNYGIDSFTLRYAICLLGSFPLNAILKRIPEKRIGLKCCFIISMSMFYLFGVLNLVSGFRTLFISTMFTYLISRFYRSKFMPHLNFMFVMGHLAINHIHAQFLNEQTQTTVDITSSQMVLAMKLTSFAWSYYDGSCTSESDFKDLTEHQKSRAVRGHPPLLKFLAYAFFYSTLLTGPSFDYADFDSWLNCEMFRDLPESKKPMRRHHPGERRQIPKNGKLALWKVVQGLAWMILSTLGMKHFPVKYVLDKDGFPTRSFIFRIHYLFLLGFIHRFKYYAAWTISEGSCILCGLGYNGYDSKTQKIRWDRVRNIDIWTVETAQNTREMLEAWNMNTNKWLKYSVYLRVTKKGKKPGFRSTLFTFLTSAFWHGTRPGYYLTFATGALYQTCGKIYRRNFRPIFLREDGVTPLPSKKIYDLVGIYAIKLAFGYMVQPFIILDLKPSLMVWGSVYFYVHIIVAFSFFLFRGPYAKQVTEFFKSKQPKEIFIRKQKKLEKDISASSPNLGGILKAKIEHEKGKTAEEEEMNLGIPPIELEKWDNAKEDWEDFCKDYKEWRNKNGLEIEEENLSKAFERFKQEFSNAASGSGERVRKMSFSGYSPKPISKKEE |
| 1037 | sp|Q8LPS2|ACD6\_ARATH | MDSSGADLDRIEAQRSMLVSHDQRKDFSHSGGVGTTSPTGDTEPVPKFRTNLKLSDLFALPGEDVEMTPEIFGGMSNGEKECLEKLRSNGTPMERVKSNTGDSILHIAAKWGHLELVKEIIFECPCLLFEQNSSRQTPLHVATHGGHTKVVEALVASVTSALASLSTEESEGLNPHVLKDEDGNTALYYAIEGRYLEMATCLVNADKDAPFLGNNKGISSLYEAVDAGNKFEDLVKAILKTTDDNVDREVRKFNLDSKLQGNKHLAHVALKAKSIGVLDVILDEYPSLMDEQDEDGRTCLSYGASIGYYKGLCNILNRSTKGVYVCDQDGSFPIHSAAKNEHYEIIKEFIKRCPASKYLLNRLGQNILHVAAKNEASLTAYMLMHDKDTKHLGVGQDVDGNTPLHLAVMNWDFDSITCLASRNHEILKLRNKSGLRARDIAESEVKPNYIFHERWTLALLLYAIHSSGFESVKSLTIQSVPLDPKKNRHYVNALLVVAALVATVTFAAGFTIPGGYISDSKKPNLGRATLATNPTLFIFLLFDILAMQSSVATICTLIWAQLGDLALILKSLHVALPLLLFSLLCMPVAFLFGVITAIAHVKWLLVTISIISGGFFLFAIFILGPHVMLQRSHLPPSSGIFLKTFMLTIDISELFVILIKACFGCVACSE |
| 1038 | sp|P07943|ALDR\_RAT | MASHLELNNGTKMPTLGLGTWKSPPGQVTEAVKVAIDMGYRHIDCAQVYQNEKEVGVALQEKLKEQVVKRQDLFIVSKLWCTFHDQSMVKGACQKTLSDLQLDYLDLYLIHWPTGFKPGPDYFPLDASGNVIPSDTDFVDTWTAMEQLVDEGLVKAIGVSNFNPLQIERILNKPGLKYKPAVNQIECHPYLTQEKLIEYCHCKGIVVTAYSPLGSPDRPWAKPEDPSLLEDPRIKEIAAKYNKTTAQVLIRFPIQRNLVVIPKSVTPARIAENFKVFDFELSNEDMATLLSYNRNWRVCALMSCAKHKDYPFHAEV |
| 1039 | sp|P25962|ADRB3\_MOUSE | MAPWPHRNGSLALWSDAPTLDPSAANTSGLPGVPWAAALAGALLALATVGGNLLVIIAIARTPRLQTITNVFVTSLAAADLVVGLLVMPPGATLALTGHWPLGETGCELWTSVDVLCVTASIETLCALAVDRYLAVTNPLRYGTLVTKRRARAAVVLVWIVSAAVSFAPIMSQWWRVGADAEAQECHSNPRCCSFASNMPYALLSSSVSFYLPLLVMLFVYARVFVVAKRQRHLLRRELGRFSPEESPPSPSRSPSPATGGTPAAPDGVPPCGRRPARLLPLREHRALRTLGLIMGIFSLCWLPFFLANVLRALAGPSLVPSGVFIALNWLGYANSAFNPVIYCRSPDFRDAFRRLLCSYGGRGPEEPRAVTFPASPVEARQSPPLNRFDGYEGARPFPT |
| 1040 | sp|Q8VZC3|AL121\_ARATH | MYRVFASRALRAKSLCDKSSTSLASLTLSRLNHSIPFATVDAEELSGAHPAEVQSFVQGKWIGSSNHNTLLDPLNGEPFIKVAEVDESGTQPFVDSLSQCPKHGLHNPFKSPERYLLYGDISTKAAHMLALPKVADFFARLIQRVAPKSYQQAAGEVFVTRKFLENFCGDQVRFLARSFAIPGNHLGQQSHGYRWPYGPVTIVTPFNFPLEIPLLQLMGALYMGNKPLLKVDSKVSIVMEQMMRLLHYCGLPAEDVDFINSDGKTMNKILLEANPRMTLFTGSSRVAEKLALDLKGRIRLEDAGFDWKVLGPDVQEVDYVAWQCDQDAYACSGQKCSAQSMLFVHENWSKTPLVSKLKELAERRKLEDLTIGPVLTFTTEAMLEHMENLLQIPGSKLLFGGKELKNHSIPSIYGALEPTAVYVPIEEILKDNKTYELVTKEIFGPFQIVTEYKKDQLPLVLEALERMHAHLTAAVVSNDPIFLQEVIGNSVNGTTYAGLRGRTTGAPQNHWFGPAGDPRGAGIGTPEAIKLVWSCHREVIYDYGPVPQGWELPPST |
| 1041 | sp|P31230|AIMP1\_MOUSE | MATNDAVLKRLEQKGAEADQIIEYLKQQVALLKEKAILQATMREEKKLRVENAKLKKEIEELKQELILAEIHNGVEQVRVRLSTPLQTNCTASESVVQSPSVATTASPATKEQIKAGEEKKVKEKTEKKGEKKEKQQSAAASTDSKPIDASRLDLRIGCIVTAKKHPDADSLYVEEVDVGEAAPRTVVSGLVNHVPLEQMQNRMVVLLCNLKPAKMRGVLSQAMVMCASSPEKVEILAPPNGSVPGDRITFDAFPGEPDKELNPKKKIWEQIQPDLHTNAECVATYKGAPFEVKGKGVCRAQTMANSGIK |
| 1042 | sp|P46415|ADHX\_DROME | MSATEGKVITCKAAVAWEAKKPLVIEDIEVAPPKAHEVRIKITATGVCHTDAFTLSGADPEGLFPVVLGHEGAGIVESVGEGVTNFKAGDHVIALYIPQCNECKFCKSGKTNLCQKIRLTQGAGVMPEGTSRLSCKGQQLFHFMGTSTFAEYTVVADISLTKINEKAPLEKVCLLGCGISTGYGAALNTAKVEAGSTCAVWGLGAVGLAVGLGCKKAGAGKIYGIDINPDKFELAKKFGFTDFVNPKDVADKGSIQNYLIDLTDGGFDYTFECIGNVNTMRSALEATHKGWGTSVVIGVAGAGQEISTRPFQLVVGRVWKGSAFGGWRSVSDVPKLVEDYLKKDLLVDEFITHELPLSQINEAFDLMHKGESIRSIIKY |
| 1043 | sp|P0CE82|A1HB2\_LOXIN | ARVVLGCWSVLSQAAQTDDEERAGNRRPIWIMGHMVNAIGQIDEFVNLGANSIETDVSFDDNANPEYTYHGIPCDCGRNCKKYENFNDFLKGLRSATTPGNSKYQEKLVLVVFDLKTGSLYDNQANDAGKKLAKNLLQHYWNNGNNGGRAYIVLSIPDLNHYPLIKGFKDQLTKDGHPELMDKVGHDFSGNDDIGDVGKAYKKAGITGHIWQSDGITNCLPRGLSRVNAAVANRDSANGFINKVYYWTVDKRSTTRDALDAGVDGIMTNYPDVITDVLNEAAYKKKFRVATYDDNPWVTFKK |
| 1044 | sp|Q4GZT4|ABCG2\_BOVIN | MSSNSYEVSIPMSKKLNGIPETTSKDLQTLTEGAVLSFHNICYRVKVKTGFLLCRKTIEKEILANINGVMKPGLNAILGPTGGGKSSLLDILAARKDPHGLSGDVLINGAPRPANFKCNSGYVVQDDVVMGTLTVRENLQFSAALRLPTTMTSYEKNERINKVIQELGLDKVADSKVGTQFIRGVSGGERKRTSIAMELITDPSILFLDEPTTGLDSSTANAVLLLLKRMSKQGRTIIFSIHQPRYSIFKLFDSLTLLASGRLMFHGPAQEALGYFGAIGFRCEPYNNPADFFLDIINGDSSAVVLNREDIGDEANETEEPSKKDTPLIEKLAEFYVNSSFFKETKVELDKFSGDQRRKKLPSYKEVTYATSFCHQLKWISRRSFKNLLGNPQASIAQLIVTVFLGLVIGAIFYDLKNDPAGIQNRAGVLFFLTTNQCFSSVSAVELLVVEKKLFIHEYISGYYRVSSYFFGKLLSDLLPMRMLPSIIFTCITYFLLGLKPKVEAFFIMMLTLMMVAYSASSMALAIAAGQSVVSIATLLMTISFVFMMIFSGLLVNLKTVVPWLSWLQYLSIPRYGYAALQHNEFLGQNFCPGLNVTTNNTCSYAICTGEEFLTNQGIDISPWGLWKNHVALACMIVIFLTIAYLKLLFLKKFS |
| 1045 | sp|P15121|ALDR\_HUMAN | MASRLLLNNGAKMPILGLGTWKSPPGQVTEAVKVAIDVGYRHIDCAHVYQNENEVGVAIQEKLREQVVKREELFIVSKLWCTYHEKGLVKGACQKTLSDLKLDYLDLYLIHWPTGFKPGKEFFPLDESGNVVPSDTNILDTWAAMEELVDEGLVKAIGISNFNHLQVEMILNKPGLKYKPAVNQIECHPYLTQEKLIQYCQSKGIVVTAYSPLGSPDRPWAKPEDPSLLEDPRIKAIAAKHNKTTAQVLIRFPMQRNLVVIPKSVTPERIAENFKVFDFELSSQDMTTLLSYNRNWRVCALLSCTSHKDYPFHEEF |
| 1046 | sp|Q9DBT5|AMPD2\_MOUSE | MASEARSGLGASPLQSARSLPGNAPCLKHFPLDLRTSMDGKCKEIAEELFSRSLAESELRSAPYEFPEESPIEQLEERRQRLERQISQDVKLEPDILLRAKQDFLKTDSDSDLQLYKEQGEGQGDRGLWERDVVLEREFQRVIISGEEKCGVPFTDLLDAAKSVVRALFIREKYMALSLQSFCPTTRRYLQQLAEKPLETRTYEQSPDTPVSADAPVHPPALEQHPYEHCEPSAMPGDLGLGLRMVRGVVHVYTRRDPDEHCPEVELPYPDLQEFVADVNVLMALIINGPIKSFCYRRLQYLSSKFQMHVLLNEMKELAAQKKVPHRDFYNIRKVDTHIHASSCMNQKHLLRFIKRAMKRHLEEIVHVEQGREQTLREVFESMNLTAYDLSVDTLDVHADRNTFHRFDKFNAKYNPIGESVLREIFIKTDNKISGKYFAHIIKEVMADLEESKYQNAELRLSIYGRSRDEWDKLARWAVNHKVHSPNVRWLVQVPRLFDVYRTKGQLANFQEMLENIFLPLFEATVHPASHPELHLFLEHVDGFDSVDDESKPENHVFNLESPLPEAWVEEDNPPYAYYLYYTFANMAMLNHLRRQRGFHTFVLRPHCGEAGPIHHLVSAFMLAENISHGLLLRKAPVLQYLYYLAQIGIAMSPLSNNSLFLSYHRNPLPEYLSRGLMVSLSTDDPLQFHFTKEPLMEEYSIATQVWKLSSCDMCELARNSVLMSGFSHKVKSHWLGPNYTKEGPEGNDIRRTNVPDIRVGYRYETLCQELALITQAVQSEMLETIPEEVGIVMSPGP |
| 1047 | sp|Q9H9G7|AGO3\_HUMAN | MEIGSAGPAGAQPLLMVPRRPGYGTMGKPIKLLANCFQVEIPKIDVYLYEVDIKPDKCPRRVNREVVDSMVQHFKVTIFGDRRPVYDGKRSLYTANPLPVATTGVDLDVTLPGEGGKDRPFKVSIKFVSRVSWHLLHEVLTGRTLPEPLELDKPISTNPVHAVDVVLRHLPSMKYTPVGRSFFSAPEGYDHPLGGGREVWFGFHQSVRPAMWKMMLNIDVSATAFYKAQPVIQFMCEVLDIHNIDEQPRPLTDSHRVKFTKEIKGLKVEVTHCGTMRRKYRVCNVTRRPASHQTFPLQLENGQTVERTVAQYFREKYTLQLKYPHLPCLQVGQEQKHTYLPLEVCNIVAGQRCIKKLTDNQTSTMIKATARSAPDRQEEISRLVRSANYETDPFVQEFQFKVRDEMAHVTGRVLPAPMLQYGGRNRTVATPSHGVWDMRGKQFHTGVEIKMWAIACFATQRQCREEILKGFTDQLRKISKDAGMPIQGQPCFCKYAQGADSVEPMFRHLKNTYSGLQLIIVILPGKTPVYAEVKRVGDTLLGMATQCVQVKNVIKTSPQTLSNLCLKINVKLGGINNILVPHQRPSVFQQPVIFLGADVTHPPAGDGKKPSIAAVVGSMDAHPSRYCATVRVQRPRQEIIQDLASMVRELLIQFYKSTRFKPTRIIFYRDGVSEGQFRQVLYYELLAIREACISLEKDYQPGITYIVVQKRHHTRLFCADRTERVGRSGNIPAGTTVDTDITHPYEFDFYLCSHAGIQGTSRPSHYHVLWDDNCFTADELQLLTYQLCHTYVRCTRSVSIPAPAYYAHLVAFRARYHLVDKEHDSAEGSHVSGQSNGRDPQALAKAVQIHQDTLRTMYFA |
| 1048 | sp|P50123|AMPE\_RAT | MNFAEEEPSKKYCIKGKHVAIICATVVAVGLIVGLSVGLTRSCEPGTTPAPSNPPPHTSTALPPQDQNVCPDSDDESGEWKNFRLPDFIQPVHYDLEVKVLMEEDRYTGIVSISVNLSKDTRDLWLHIRETRITKLPELRRPSGEQVPIRRCFEYKKQEYVVIQAEEDLAATSGDSVYRLTIEFEGWLNGSLVGFYRTTYTEDGQTKSIAATDHEPTDARKSFPCFDEPNKKATYNISLIHPKEYSALSNMPVEKKETLDNDWKKTTFMKSVPMSTYLVCFAVHQFTSIQRTSRSGKPLTVYVQPNQKQTAEYAANITKAVFDFFEDYFAMEYSLPKLDKIAIPDFGTGAMENWGLVTYRETNLLYDPLLSASSNQQRVASVVAHELVHQWFGNIVTMDWWDDLWLNEGFASFFEFLGVNHAEADWQMLSQVLLEDVLPVQEDDSLMSSHPVVVTVSTPAEITSVFDGISYSKGASILRMLQDWITPEKFQKGCQIYLENFKFKNAKTSDFWDSLEKASNQPVKEVMDTWTSQMGYPVVTVSGKQNVTQKRFLLDYKADPSQPPSALGYTWNIPIKWTENGNSNITVYYRSNREGITLNANLSGDGFLKINPDHIGFYRVNYEAETWDWIAETLSSNHMNFSSADRSSFIDDAFALARAQLLDYEKALNLTRYLTSEKDFLPWERVISAVSYIISMFEDDRELYPLIETYFRSQVKPIADSLGWQDTGSHITKLLRASVLGFACKMGAGEALGNASQLFEAWLKGNESIPVNLRLLVYRYGMQNSGNEAAWNYTLEQYQKTSLAQEKEKLLYGLASVKDVTLLARYLEMLKDPNIIKTQDVFTVIRYISYNSYGKSMAWNWIQLNWDYLVNRFTINDRYLGRIVTIAEPFNTELQLWQMQSFFAKYPNAGAGAKPREQVLETVKNNIEWLKLNRKSISEWFTSMP |
| 1049 | sp|Q96CM8|ACSF2\_HUMAN | MAVYVGMLRLGRLCAGSSGVLGARAALSRSWQEARLQGVRFLSSREVDRMVSTPIGGLSYVQGCTKKHLNSKTVGQCLETTAQRVPEREALVVLHEDVRLTFAQLKEEVDKAASGLLSIGLCKGDRLGMWGPNSYAWVLMQLATAQAGIILVSVNPAYQAMELEYVLKKVGCKALVFPKQFKTQQYYNVLKQICPEVENAQPGALKSQRLPDLTTVISVDAPLPGTLLLDEVVAAGSTRQHLDQLQYNQQFLSCHDPINIQFTSGTTGSPKGATLSHYNIVNNSNILGERLKLHEKTPEQLRMILPNPLYHCLGSVAGTMMCLMYGATLILASPIFNGKKALEAISRERGTFLYGTPTMFVDILNQPDFSSYDISTMCGGVIAGSPAPPELIRAIINKINMKDLVVAYGTTENSPVTFAHFPEDTVEQKAESVGRIMPHTEARIMNMEAGTLAKLNTPGELCIRGYCVMLGYWGEPQKTEEAVDQDKWYWTGDVATMNEQGFCKIVGRSKDMIIRGGENIYPAELEDFFHTHPKVQEVQVVGVKDDRMGEEICACIRLKDGEETTVEEIKAFCKGKISHFKIPKYIVFVTNYPLTISGKIQKFKLREQMERHLNL |
| 1050 | sp|P58428|ABCG8\_RAT | MAEKTKEETQLWNGTVLQDASSLQDSVFSSESDNSLYFTYSGQSNTLEVRDLTYQGGTCLRSWGQEDPHMSLGLSESVDMASQVPWFEQLAQFKLPWRSRGSQDSWDLGIRNLSFKVRSGQMLAIIGSAGCGRATLLDVITGRDHGGKMKSGQIWINGQPSTPQLIQKCVAHVRQQDQLLPNLTVRETLTFIAQMRLPKTFSQAQRDKRVEDVIAELRLRQCANTRVGNTYVRGVSGGERRRVSIGVQLLWNPGILILDEPTSGLDSFTAHNLVRTLSRLAKGNRLVLISLHQPRSDIFRLFDLVLLMTSGTPIYLGVAQHMVQYFTSIGYPCPRYSNPADFYVDLTSIDRRSKEQEVATMEKARLLAALFLEKVQGFDDFLWKAEAKSLDTGTYAVSQTLTQDTNCGTAAELPGMIQQFTTLIRRQISNDFRDLPTLFIHGAEACLMSLIIGFLYYGHADKPLSFMDMAALLFMIGALIPFNVILDVVSKCHSERSLLYYELEDGLYTAGPYFFAKVLGELPEHCAYVIIYGMPIYWLTNLRPGPELFLLHFMLLWLVVFCCRTMALAASAMLPTFHMSSFCCNALYNSFYLTAGFMINLNNLWIVPAWISKMSFLRWCFSGLMQIQFNGHIYTTQIGNLTFSVPGDAMVTAMDLNSHPLYAIYLIVIGISCGFLSLYYLSLKFIKQKSIQDW |
| 1051 | sp|O08715|AKAP1\_MOUSE | MAIQLRSLFPLALPGMLALLGWWWFFSRKKDRLSSSDKQVETLKVGPAIKDRRLSEEACPGVLSVAPTVTQPPGREEQRCVDKPSTEPLALPRTRQVRRRSESSGNLPSVADTRSQPGPCRDEIAKVELSLMGDKAKSIPLGCPLLPKDASFPYEAVERCKQESALGKTPGRGWPSPYAASGEKARETGGTEGTGDAVLGENVSEEGLLSQECVSEVEKSEFPILAPGGGEGEEVSHGPPQVAELLKKEEYIVGKLPSSFVEPVHSEPVKDEDALEPQVKGSSNTSDRDLAGELDKDETVPENDQIKQAAFQLISQVILEATEEFRATTVGKTVAQVHPTSATQPKGKEESCVPASQETSLGQDTSDPASTRTGATASPSAEALPPKTYVSCLSSPLSGPTKDQKPKNSAHHISLAPCPPPVTPQRQSLEGASNPRGDDNFVACMANNSQSVLSVSSLGQCSDPVSTSGLEDSCTETISSSGDKAMTPPLPVSTQPFSNGVLKEELSDLGTEDGWTMDTEADHSGGSDGNSMDSVDSCCGLTKPDSPQSVQAGSNPKKVDLIIWEIEVPKHLVGRLIGKQGRYVSFLKQTSGAKIYISTLPYTQNIQICHIEGSQHHVDKALNLIGKKFKELNLTNIYAPPLPSLALPSLPMTSWLMLPDGITVEVIVVNQVNAGHLFVQQHTHPTFHALRSLDQQMYLCYSQPGIPTLPTPVEITVICAAPGADGAWWRAQVVASYEETNEVEIRYVDYGGYKRVKVDVLRQIRSDFVTLPFQGAEVLLDSVVPLSDDDHFSPEADAAMSEMTGNTALLAQVTSYSATGLPLIQLWSVVGDEVVLINRSLVERGLAQWVDSYYASL |
| 1052 | sp|P0A6B4|ALR1\_ECOLI | MQAATVVINRRALRHNLQRLRELAPASKMVAVVKANAYGHGLLETARTLPDADAFGVARLEEALRLRAGGITKPVLLLEGFFDARDLPTISAQHFHTAVHNEEQLAALEEASLDEPVTVWMKLDTGMHRLGVRPEQAEAFYHRLTQCKNVRQPVNIVSHFARADEPKCGATEKQLAIFNTFCEGKPGQRSIAASGGILLWPQSHFDWVRPGIILYGVSPLEDRSTGADFGCQPVMSLTSSLIAVREHKAGEPVGYGGTWVSERDTRLGVVAMGYGDGYPRAAPSGTPVLVNGREVPIVGRVAMDMICVDLGPQAQDKAGDPVILWGEGLPVERIAEMTKVSAYELITRLTSRVAMKYVD |
| 1053 | sp|P09167|AERA\_AERHY | MQKIKLTGLSLIISGLLMAQAQAAEPVYPDQLRLFSLGQGVCGDKYRPVNREEAQSVKSNIVGMMGQWQISGLANGWVIMGPGYNGEIKPGTASNTWCYPTNPVTGEIPTLSALDIPDGDEVDVQWRLVHDSANFIKPTSYLAHYLGYAWVGGNHSQYVGEDMDVTRDGDGWVIRGNNDGGCDGYRCGDKTAIKVSNFAYNLDPDSFKHGDVTQSDRQLVKTVVGWAVNDSDTPQSGYDVTLRYDTATNWSKTNTYGLSEKVTTKNKFKWPLVGETELSIEIAANQSWASQNGGSTTTSLSQSVRPTVPARSKIPVKIELYKADISYPYEFKADVSYDLTLSGFLRWGGNAWYTHPDNRPNWNHTFVIGPYKDKASSIRYQWDKRYIPGEVKWWDWNWTIQQNGLSTMQNNLARVLRPVRAGITGDFSAESQFAGNIEIGAPVPLAADSKVRRARSVDGAGQGLRLEIPLDAQELSGLGFNNVSLSVTPAANQ |
| 1054 | sp|Q08AH1|ACSM1\_HUMAN | MQWLMRFRTLWGIHKSFHNIHPAPSQLRCRSLSEFGAPRWNDYEVPEEFNFASYVLDYWAQKEKEGKRGPNPAFWWVNGQGDEVKWSFREMGDLTRRVANVFTQTCGLQQGDHLALMLPRVPEWWLVAVGCMRTGIIFIPATILLKAKDILYRLQLSKAKGIVTIDALASEVDSIASQCPSLKTKLLVSDHSREGWLDFRSLVKSASPEHTCVKSKTLDPMVIFFTSGTTGFPKMAKHSHGLALQPSFPGSRKLRSLKTSDVSWCLSDSGWIVATIWTLVEPWTAGCTVFIHHLPQFDTKVIIQTLLKYPINHFWGVSSIYRMILQQDFTSIRFPALEHCYTGGEVVLPKDQEEWKRRTGLLLYENYGQSETGLICATYWGMKIKPGFMGKATPPYDVQVIDDKGSILPPNTEGNIGIRIKPVRPVSLFMCYEGDPEKTAKVECGDFYNTGDRGKMDEEGYICFLGRSDDIINASGYRIGPAEVESALVEHPAVAESAVVGSPDPIRGEVVKAFIVLTPQFLSHDKDQLTKELQQHVKSVTAPYKYPRKVEFVSELPKTITGKIERKELRKKETGQM |
| 1055 | sp|P0CB42|ALKB1\_MOUSE | MGKMAAAVASLATLAAEPREDAFRKLFRFYRQSRPGTADLGAVIDFSEAHLARSPKPGVPQVVRFPLNVSSVTERDAERVGLEPVSKWRAYGLEGYPGFIFIPNPFLPGCQRHWVKQCLKLYSQKPNVCNLDKHMTKEETQGLWEQSKEVLRSKEVTKRRPRSLLERLRWVTLGYHYNWDSKKYSADHYTPFPSDLAFLSEQVATACGFQGFQAEAGILNYYRLDSTLGIHVDRSELDHSKPLLSFSFGQSAIFLLGGLKRDEAPTAMFMHSGDIMVMSGFSRLLNHAVPRVLPHPDGECLPHCLETPLPAVLPSNSLVEPCSVEDWQVCATYLRTARVNMTVRQVLATGQDFPLEPVEETKRDIAADGLCHLHDPNSPVKRKRLNPNS |
| 1056 | sp|Q66PJ3|AR6P4\_HUMAN | MPRCTYQLEQNPGFLPDGPGVHARAHCQDLSGPYGHEFATSESLGGRVGKTRAPQSGARSRMERAGPAGEEGGAREGRLLPRAPGAWVLRACAERAALEVGAASADTGVRGCGARGPAPLLASAGGGRARDGTWGVRTKGSGAALPSRPASRAAPRPEASSPPLPLEKARGGLSGPQGGRARGAMAHVGSRKRSRSRSRSRGRGSEKRKKKSRKDTSRNCSASTSQGRKASTAPGAEASPSPCITERSKQKARRRTRSSSSSSSSSSSSSSSSSSSSSSSSSDGRKKRGKYKDKRRKKKKKRKKLKKKGKEKAEAQQVEALPGPSLDQWHRSAGEEEDGPVLTDEQKSRIQAMKPMTKEEWDARQSIIRKVVDPETGRTRLIKGDGEVLEEIVTKERHREINKQATRGDCLAFQMRAGLLP |
| 1057 | sp|Q10943|ARF12\_CAEEL | MGNVFGSLFKGLFGKREMRILMVGLDAAGKTTILYKLKLGEIVTTIPTIGFNVETVEYKNISFTVWDVGGQDKIRPLWRHYFQNTQGLIFVVDSNDRERVGEAREELMRMLAEDELRDAVLLVFANKQDLPQAMNAAEVTDKLGLHSLRNRSWYIQATCATSGDGLYEGLDWLSNQLKNRS |
| 1058 | sp|P36405|ARL3\_HUMAN | MGLLSILRKLKSAPDQEVRILLLGLDNAGKTTLLKQLASEDISHITPTQGFNIKSVQSQGFKLNVWDIGGQRKIRPYWKNYFENTDILIYVIDSADRKRFEETGQELAELLEEEKLSCVPVLIFANKQDLLTAAPASEIAEGLNLHTIRDRVWQIQSCSALTGEGVQDGMNWVCKNVNAKKK |
| 1059 | sp|H0VVW3|APOA1\_CAVPO | MKAVLLVVAALFLAGSQARHFWQQDDPKTSWDVVKEFANKYVDAVKESGKGYVEQLDASSLGQQLNLRLSDNWDTLSTILTKLQADFGLATQEFWDTLEKETEWLKQIVSEDLQDVKHKVQPYLENFQKKVQEEVEHYREKVRPLGIELRDGARQKLQELQEKLTPLGEDLRDRTREHVDVLRTQLAPFSEEMRQRLAKRLEELKDSATLADYHAKASEHLKMLGEKAKPALEDLRQGLLPVLENLKASILSSIDQASKQLAAQ |
| 1060 | sp|P26459|APPC\_ECOLI | MWDVIDLSRWQFALTALYHFLFVPLTLGLIFLLAIMETIYVVTGKTIYRDMTRFWGKLFGINFALGVATGLTMEFQFGTNWSFYSNYVGDIFGAPLAMEALMAFFLESTFVGLFFFGWQRLNKYQHLLVTWLVAFGSNLSALWILNANGWMQYPTGAHFDIDTLRMEMTSFSELVFNPVSQVKFVHTVMAGYVTGAMFIMAISAWYLLRGRERNVALRSFAIGSVFGTLAIIGTLQLGDSSAYEVAQVQPVKLAAMEGEWQTEPAPAPFHVVAWPEQDQERNAFALKIPALLGILATHSLDKPVPGLKNLMAETYPRLQRGRMAWLLMQEISQGNREPHVLQAFRGLEGDLGYGMLLSRYAPDMNHVTAAQYQAAMRGAIPQVAPVFWSFRIMVGCGSLLLLVMLIALVQTLRGKIDQHRWVLKMALWSLPLPWIAIEAGWFMTEFGRQPWAIQDILPTYSAHSALTTGQLAFSLIMIVGLYTLFLIAEVYLMQKYARLGPSAMQSEQPTQQQG |
| 1061 | sp|P35602|AP1M\_CAEEL | MATSAMFILDLKGKTIISRNYRGDIDMTAIDKFIHLLMEKEEEGSAAPVLTYQDTNFVFIKHTNIYLVSACRSNVNVTMILSFLYKCVEVFSEYFKDVEEESVRDNFVVIYELLDEMMDFGFPQTTESRILQEYITQEGQKLISAPRPPMAVTNAVSWRSEGIKYRKNEVFLDVIESVNMLASANGTVLQSEIVGSVKMRVYLTGMPELRLGLNDKVLFEGSGRGKSKSVELEDVKFHQCVRLSRFDTDRTISFIPPDGAFELMSYRLTTVVKPLIWIETSIERHSHSRVSFIIKAKSQFKRRSTANNVEIIIPVPSDADSPKFKTSIGSVKYTPEQSAFVWTIKNFPGGKEYLLTAHLSLPSVMSEESEGRPPIKVKFEIPYFTTSGIQVRYLKIIEKSGYQALPWVRYITQNGEYEMRMK |
| 1062 | sp|O43150|ASAP2\_HUMAN | MPDQISVSEFVAETHEDYKAPTASSFTTRTAQCRNTVAAIEEALDVDRMVLYKMKKSVKAINSSGLAHVENEEQYTQALEKFGGNCVCRDDPDLGSAFLKFSVFTKELTALFKNLIQNMNNIISFPLDSLLKGDLKGVKGDLKKPFDKAWKDYETKITKIEKEKKEHAKLHGMIRTEISGAEIAEEMEKERRFFQLQMCEYLLKVNEIKIKKGVDLLQNLIKYFHAQCNFFQDGLKAVESLKPSIETLSTDLHTIKQAQDEERRQLIQLRDILKSALQVEQKEDSQIRQSTAYSLHQPQGNKEHGTERNGSLYKKSDGIRKVWQKRKCSVKNGFLTISHGTANRPPAKLNLLTCQVKTNPEEKKCFDLISHDRTYHFQAEDEQECQIWMSVLQNSKEEALNNAFKGDDNTGENNIVQELTKEIISEVQRMTGNDVCCDCGAPDPTWLSTNLGILTCIECSGIHRELGVHYSRMQSLTLDVLGTSELLLAKNIGNAGFNEIMECCLPAEDSVKPNPGSDMNARKDYITAKYIERRYARKKHADNAAKLHSLCEAVKTRDIFGLLQAYADGVDLTEKIPLANGHEPDETALHLAVRSVDRTSLHIVDFLVQNSGNLDKQTGKGSTALHYCCLTDNAECLKLLLRGKASIEIANESGETPLDIAKRLKHEHCEELLTQALSGRFNSHVHVEYEWRLLHEDLDESDDDMDEKLQPSPNRREDRPISFYQLGSNQLQSNAVSLARDAANLAKEKQRAFMPSILQNETYGALLSGSPPPAQPAAPSTTSAPPLPPRNVGKVQTASSANTLWKTNSVSVDGGSRQRSSSDPPAVHPPLPPLRVTSTNPLTPTPPPPVAKTPSVMEALSQPSKPAPPGISQIRPPPLPPQPPSRLPQKKPAPGADKSTPLTNKGQPRGPVDLSATEALGPLSNAMVLQPPAPMPRKSQATKLKPKRVKALYNCVADNPDELTFSEGDVIIVDGEEDQEWWIGHIDGDPGRKGAFPVSFVHFIAD |
| 1063 | sp|Q8R1L8|ANGL8\_MOUSE | MAVLALCLLWTLASAVRPAPVAPLGGPEPAQYEELTLLFHGALQLGQALNGVYRATEARLTEAGHSLGLYDRALEFLGTEVRQGQDATQELRTSLSEIQVEEDALHLRAEATARSLGEVARAQQALRDTVRRLQVQLRGAWLGQAHQEFETLKARADKQSHLLWALTGHVQRQQREMAEQQQWLRQIQQRLHTAALPA |
| 1064 | sp|Q07185|AOX1\_SOYBN | MMMMMSRSGANRVANTAMFVAKGLSGEVGGLRALYGGGVRSESTLALSEKEKIEKKVGLSSAGGNKEEKVIVSYWGIQPSKITKKDGTEWKWNCFSPWGTYKADLSIDLEKHMPPTTFLDKMAFWTVKVLRYPTDVFFQRRYGCRAMMLETVAAVPGMVAGMLLHCKSLRRFEHSGGWFKALLEEAENERMHLMTFMEVAKPKWYERALVITVQGVFFNAYFLGYLLSPKFAHRMFGYLEEEAIHSYTEFLKELDKGNIENVPAPAIAIDYWQLPPGSTLRDVVMVVRADEAHHRDVNHFASDIHYQGRELREAAAPIGYH |
| 1065 | sp|P55056|APOC4\_HUMAN | MSLLRNRLQALPALCLCVLVLACIGACQPEAQEGTLSPPPKLKMSRWSLVRGRMKELLETVVNRTRDGWQWFWSPSTFRGFMQTYYDDHLRDLGPLTKAWFLESKDSLLKKTHSLCPRLVCGDKDQG |
| 1066 | sp|Q9XTT4|ANI1\_CAEEL | MGDQFDSLMERIRVRQAEMSGEGEVAKENGPVTSKITSVKQEVASPTKVFGSSSKCNDGPSTPVHFHPQEPKETTPNMKENAENSLNSFKDATVNESSSKKTSRFSMLAQEIDEYEYDYQSQYNKPKEAYMKGRSPRMSIGETRPAVLCTPAGAQAMKSPNVAVSSKSAPEIALGMSDFEARRIKFAQPIVNVNYLPNESSIFSGGSGSSVNDQSTVLGGSAEMMNVTTSSLSCGELSMNQHITHENTIINAQSCDNREAILRERQQVSNEEYGPHTFMRKKVPKEASSATSSSSSTTTLTTISGASGSTTSGISNAPQDSASTKTTTNTFTSSYLLTKTSNNNINALVSSSPKPFSKDIGRSMFSPVHFTPKSTSSPKTLSESIFSPSKSAAVEGSIATTRRLQFEEKLKKSSSANVTAPPAPTSAPVPTPRHVAPLAPTVAQQSHLTPNHRHAAQQKKHLFPVVGIVATAPIPVQTQWRGQSNTPVVQGARADEKTAGNEPPVGAGVGKLKNLKSRWEFSSATGTPIHPDATEDSLIATAIKMKESAIPKQLGHRSERKGPSASSLYSQGARSNTASPASKSTRYEQEEEDDVFEAPEFNDGGDVISEDGILQEEEEDTSKFIDNAFGFMEGSGAGTPSPYREPPLQRLEKNRPPAEVIEEETENEDESEPYEPEEEEDDDATTQFPVPERSRKSSSQLAYSVSFYRKIQRDRNEESSTVLAGPVISQISPSAPPMSSSLTSQQKLRQLTTGPANGARIVESAKDAHDRIKRAIQVEEQLVAQSKRAMILARDKPSFRGSREEFEAQWAMLRHVEKHRALLTEYDRLKRDGPRIIDGPRGTITVSQLSVNMARDYVSANIASSKKSDEVFYFAAILRYGEQVDVSKMVTSDGGLNRRGVLEFPVPLMLTGIPPDFRATVEIYGQRSMRESTSHEDKYKLKNSTFKAKTRNTFLGGGSTSSANQSLFVDPAASSSSTSSTTSNFNLLGTFSFDINCPGKHLYNMSHTVYPLEGITQMKVRKQAIDGADITYHGFLSMYQRTGEGLGSWTRYWCALENGEMKFWKQPEDEGTKGYTALMDLSTCCRSEGASVVEDICPFPNSFHIDVWAPKMDTSDPRGIERLRVMLAADTAQDLQTWLSLINSTSKQLCTWRNPIVNQ |
| 1067 | sp|Q15389|ANGP1\_HUMAN | MTVFLSFAFLAAILTHIGCSNQRRSPENSGRRYNRIQHGQCAYTFILPEHDGNCRESTTDQYNTNALQRDAPHVEPDFSSQKLQHLEHVMENYTQWLQKLENYIVENMKSEMAQIQQNAVQNHTATMLEIGTSLLSQTAEQTRKLTDVETQVLNQTSRLEIQLLENSLSTYKLEKQLLQQTNEILKIHEKNSLLEHKILEMEGKHKEELDTLKEEKENLQGLVTRQTYIIQELEKQLNRATTNNSVLQKQQLELMDTVHNLVNLCTKEGVLLKGGKREEEKPFRDCADVYQAGFNKSGIYTIYINNMPEPKKVFCNMDVNGGGWTVIQHREDGSLDFQRGWKEYKMGFGNPSGEYWLGNEFIFAITSQRQYMLRIELMDWEGNRAYSQYDRFHIGNEKQNYRLYLKGHTGTAGKQSSLILHGADFSTKDADNDNCMCKCALMLTGGWWFDACGPSNLNGMFYTAGQNHGKLNGIKWHYFKGPSYSLRSTTMMIRPLDF |
| 1068 | sp|Q9Y5C1|ANGL3\_HUMAN | MFTIKLLLFIVPLVISSRIDQDNSSFDSLSPEPKSRFAMLDDVKILANGLLQLGHGLKDFVHKTKGQINDIFQKLNIFDQSFYDLSLQTSEIKEEEKELRRTTYKLQVKNEEVKNMSLELNSKLESLLEEKILLQQKVKYLEEQLTNLIQNQPETPEHPEVTSLKTFVEKQDNSIKDLLQTVEDQYKQLNQQHSQIKEIENQLRRTSIQEPTEISLSSKPRAPRTTPFLQLNEIRNVKHDGIPAECTTIYNRGEHTSGMYAIRPSNSQVFHVYCDVISGSPWTLIQHRIDGSQNFNETWENYKYGFGRLDGEFWLGLEKIYSIVKQSNYVLRIELEDWKDNKHYIEYSFYLGNHETNYTLHLVAITGNVPNAIPENKDLVFSTWDHKAKGHFNCPEGYSGGWWWHDECGENNLNGKYNKPRAKSKPERRRGLSWKSQNGRLYSIKSTKMLIHPTDSESFE |
| 1069 | sp|P26644|APOH\_RAT | MISPALIFFSAFLCHVAIAGRRMWPINTLKCTPRVCPFAGILENGVVRYTTFEYPNTIGFACNPGYYLNGTSSSKCTEEGKWSPELPVCARITCPPPPIPKFAALKEYKTSVGNSSFYQDTVVFKCLPHFAMFGNDTVTCTAHGNWTQLPECREVKCPFPSRPDNGFVNYPAKPVLSYKDKAVFGCHETYKLDGPEEVECTKTGNWSALPSCKASCKLSVKKATVLYQGQRVKIQDQFKNGMMHGDKVHFYCKNKEKKCSYTEEAQCIDGTIEIPKCFKEHSSLAFWKTDASDVTPC |
| 1070 | sp|P54802|ANAG\_HUMAN | MEAVAVAAAVGVLLLAGAGGAAGDEAREAAAVRALVARLLGPGPAADFSVSVERALAAKPGLDTYSLGGGGAARVRVRGSTGVAAAAGLHRYLRDFCGCHVAWSGSQLRLPRPLPAVPGELTEATPNRYRYYQNVCTQSYSFVWWDWARWEREIDWMALNGINLALAWSGQEAIWQRVYLALGLTQAEINEFFTGPAFLAWGRMGNLHTWDGPLPPSWHIKQLYLQHRVLDQMRSFGMTPVLPAFAGHVPEAVTRVFPQVNVTKMGSWGHFNCSYSCSFLLAPEDPIFPIIGSLFLRELIKEFGTDHIYGADTFNEMQPPSSEPSYLAAATTAVYEAMTAVDTEAVWLLQGWLFQHQPQFWGPAQIRAVLGAVPRGRLLVLDLFAESQPVYTRTASFQGQPFIWCMLHNFGGNHGLFGALEAVNGGPEAARLFPNSTMVGTGMAPEGISQNEVVYSLMAELGWRKDPVPDLAAWVTSFAARRYGVSHPDAGAAWRLLLRSVYNCSGEACRGHNRSPLVRRPSLQMNTSIWYNRSDVFEAWRLLLTSAPSLATSPAFRYDLLDLTRQAVQELVSLYYEEARSAYLSKELASLLRAGGVLAYELLPALDEVLASDSRFLLGSWLEQARAAAVSEAEADFYEQNSRYQLTLWGPEGNILDYANKQLAGLVANYYTPRWRLFLEALVDSVAQGIPFQQHQFDKNVFQLEQAFVLSKQRYPSQPRGDTVDLAKKIFLKYYPRWVAGSW |
| 1071 | sp|Q64568|AT2B3\_RAT | MGDMANSSIEFHPKPQQQREVPHVGGFGCTLAELRSLMELRGAEALQKIQEAYGDVSGLCRRLKTSPTEGLADNTNDLEKRRQIYGQNFIPPKQPKTFLQLVWEALQDVTLIILEVAAIVSLGLSFYAPPGEESEACGNVSGGAEDEGEAEAGWIEGAAILLSVICVVLVTAFNDWSKEKQFRGLQSRIEQEQKFTVIRNGQLLQVPVAALVVGDIAQVKYGDLLPADGVLIQGNDLKIDESSLTGESDHVRKSADKDPMLLSGTHVMEGSGRMVVTAVGVNSQTGIIFTLLGAGGEEEEKKDKKGKQQDGAMESSQTKAKKQDGAVAMEMQPLKSAEGGEMEEREKKKANVPKKEKSVLQGKLTKLAVQIGKAGLVMSAITVIILVLYFVIETFVVDGRVWLAECTPVYVQYFVKFFIIGVTVLVVAVPEGLPLAVTISLAYSVKKMMKDNNLVRHLDACETMGNATAICSDKTGTLTTNRMTVVQSYLGDTHYKEIPAPSALTPKILDLLVHAISINSAYTTKILPPEKEGALPRQVGNKTECALLGFILDLKRDFQPVREQIPEDQLYKVYTFNSVRKSMSTVIRMPDGGFRLFSKGASEILLKKCTNILNSNGELRGFRPRDRDDMVKKIIEPMACDGLRTICIAYRDFSAIQEPDWDNENEVVGDLTCIAVVGIEDPVRPEVPEAIRKCQRAGITVRMVTGDNINTARAIAAKCGIIQPGEDFLCLEGKEFNRRIRNEKGEIEQERLDKVWPKLRVLARSSPTDKHTLVKGIIDSTTGEQRQVVAVTGDGTNDGPALKKADVGFAMGIAGTDVAKEASDIILTDDNFTSIVKAVMWGRNVYDSISKFLQFQLTVNVVAVIVAFTGACITQDSPLKAVQMLWVNLIMDTFASLALATEPPTESLLLRKPYGRDKPLISRTMMKNILGHAVYQLTIIFTLLFVGELFFDIDSGRNAPLHSPPSEHYTIIFNTFVMMQLFNEINARKIHGERNVFDGIFSNPIFCTIVLGTFGIQIVIVQFGGKPFSCSPLSTEQWLWCLFVGVGELVWGQVIATIPTSQLKCLKEAGHGPGKDEMTDEELAEGEEEIDHAERELRRGQILWFRGLNRIQTQMEVVSTFKRSGSFQGAVRRRSSVLSQLHDVTNLSTPTHIRVVKAFRSSLYEGLEKPESKSCIHNFMATPEFLINDYTHNIPLIDDTDVDENEERLRAPPPPPPNQNNNAIDSGIYLTTHATKSATSSAFSSRPGSPLHSMETSL |
| 1072 | sp|P32447|ASF1\_YEAST | MSIVSLLGIKVLNNPAKFTDPYEFEITFECLESLKHDLEWKLTYVGSSRSLDHDQELDSILVGPVPVGVNKFVFSADPPSAELIPASELVSVTVILLSCSYDGREFVRVGYYVNNEYDEEELRENPPAKVQVDHIVRNILAEKPRVTRFNIVWDNENEGDLYPPEQPGVDDEEEEDDEEEDDDEDDEDDEDDDQEDGEGEAEEAAEEEEEEEEKTEDNETNLEEEEEDIENSDGDEEEGEEEVGSVDKNEDGNDKKRRKIEGGSTDIESTPKDAARSTN |
| 1073 | sp|O15144|ARPC2\_HUMAN | MILLEVNNRIIEETLALKFENAAAGNKPEAVEVTFADFDGVLYHISNPNGDKTKVMVSISLKFYKELQAHGADELLKRVYGSFLVNPESGYNVSLLYDLENLPASKDSIVHQAGMLKRNCFASVFEKYFQFQEEGKEGENRAVIHYRDDETMYVESKKDRVTVVFSTVFKDDDDVVIGKVFMQEFKEGRRASHTAPQVLFSHREPPLELKDTDAAVGDNIGYITFVLFPRHTNASARDNTINLIHTFRDYLHYHIKCSKAYIHTRMRAKTSDFLKVLNRARPDAEKKEMKTITGKTFSSR |
| 1074 | sp|O52063|ATZC\_PSESD | MSKDFDLIIRNAYLSEKDSVYDIGIVGDRIIKIEAKIEGTVKDEIDAKGNLVSPGFVDAHTHMDKSFTSTGERLPKFWSRPYTRDAAIEDGLKYYKNATHEEIKRHVIEHAHMQVLHGTLYTRTHVDVDSVAKTKAVEAVLEAKEELKDLIDIQVVAFAQSGFFVDLESESLIRKSLDMGCDLVGGVDPATRENNVEGSLDLCFKLAKEYDVDIDYHIHDIGTVGVYSINRLAQKTIENGYKGRVTTSHAWCFADAPSEWLDEAIPLYKDSGMKFVTCFSSTPPTMPVIKLLEAGINLGCASDNIRDFWVPFGNGDMVQGALIETQRLELKTNRDLGLIWKMITSEGARVLGIEKNYGIEVGKKADLVVLNSLSPQWAIIDQAKRLCVIKNGRIIVKDEVIVA |
| 1075 | sp|P97477|AURKA\_MOUSE | MDRCKENCVSRPVKTTVPFGPKRVLVTEQIPSQNLGSASSGQAQRVLCPSNSQRVPSQAQKLGAGQKPAPKQLPAASVPRPVSRLNNPQKNEQPAASGNDSEKEQASLQKTEDTKKRQWTLEDFDIGRPLGKGKFGNVYLARERQSKFILALKVLFKTQLEKANVEHQLRREVEIQSHLRHPNILRLYGYFHDATRVYLILEYAPLGTVYRELQKLSKFDEQRTATYITELANALSYCHSKRVIHRDIKPENLLLGSNGELKIADFGWSVHAPSSRRTTMCGTLDYLPPEMIEGRMHDEKVDLWSLGVLCYEFLVGMPPFEAHTYQETYRRISRVEFTFPDFVTEGARDLISRLLKHNASQRLTLAEVLEHPWIKANSSKPPTGHTSKEPTSKSS |
| 1076 | sp|P16442|BGAT\_HUMAN | MAEVLRTLAGKPKCHALRPMILFLIMLVLVLFGYGVLSPRSLMPGSLERGFCMAVREPDHLQRVSLPRMVYPQPKVLTPCRKDVLVVTPWLAPIVWEGTFNIDILNEQFRLQNTTIGLTVFAIKKYVAFLKLFLETAEKHFMVGHRVHYYVFTDQPAAVPRVTLGTGRQLSVLEVRAYKRWQDVSMRRMEMISDFCERRFLSEVDYLVCVDVDMEFRDHVGVEILTPLFGTLHPGFYGSSREAFTYERRPQSQAYIPKDEGDFYYLGGFFGGSVQEVQRLTRACHQAMMVDQANGIEAVWHDESHLNKYLLRHKPTKVLSPEYLWDQQLLGWPAVLRKLRFTAVPKNHQAVRNP |
| 1077 | sp|O35126|ATN1\_MOUSE | MKTRQNKDSMSMRSGRKKEAPGPREELRSRGRASPGGVSTSSSDGKAEKSRQTAKKARIEEPSAPKASKQGRSEEISESESEETSAPKKTKTEQELPRPQSPSDLDSLDGRSINDDGSSDPRDIDQDNRSTSPSIYSPGSVENDSDSSSGLSQGPARPYHPPPLFPPSPPPPDSTPRQPESGFEPHPSVPPTGYHAPMEPPTSRLFQGPPPGAPPTHPQLYPGNASGGVLSGPPMGPKGGAAASSVGAPSGGKQHPPPTTPIPISSSGASGAPPAKPPSAPVGGGSLPSAPPPASFPHVTPNLPPPPALRPLNNASASPPGMGAQPIPGHLPSPHAMGQGMSGLPPGPEKGPTLAPSPHPLPPASSSAPGPPMRYPYSSSSSSAAASSSSSSSSASQYPASQALPSYPHSFPPPTSMSVSNQPPKYTQPSLPSQAVWSQGPPPPPPYGRLLANNNTHPGPFPPTGGQSTAHPAAPTHHHHQQQPQQQHHHGNSGPPPPGAYPHPLESSNSHHAHPYNMSPSLGSLRPYPPGPAHLPPPHGQVSYNQAGPNGPPVSSSNSSGSSSQASYSCSHPSSSQGPQGASYPFPPVPPVTTSSATLSTVIATVASSPAGYKTASPPGPPQYSKRAPSPGSYKTATPPGYKPGSPPSFRTGTPPGYRGTSPPAGPGTFKPGSPTVGPGPLPPAGPSSLSSLPPPPAAPTTGPPLTATQIKQEPAEEYEPPESPVPPARSPSPPPKVVDVPSHASQSARFNKHLDRGFNSCARSDLYFVPLEGSKLAKKRADLVEKVRREAEQRAREEKEREREREREKEREREKERELERSVKLAQEGRAPVECPSLGPVPHRPPFEPGSAVATVPPYLGPDTPALRTLSEYARPHVMSPGNRNHPFYVPLGAVDPGLLGYNVPALYSSDPAAREREREARERDLRDRLKPGFEVKPSELEPLHGVPGPGLDPFPRHGGLALQPGPPGLHPFPFHPSLGPLERERLALAAGPALRPDMSYAERLAAERQHAERVAALGNDPLARLQMLNVTPHHHQHSHIHSHLHLHQQDAIHAASASVHPLIDPLASGSHLTRIPYPAGTLPNPLLPHPLHENEVLRHQLFAAPYRDLPASLSAPMSAAHQLQAMHAQSAELQRLALEQQQWLHAHHPLHSVPLPAQEDYYSHLKKESDKPL |
| 1078 | sp|Q61687|ATRX\_MOUSE | MTAEPMSGNKLSTLVQKLHDFLAHSSEESEETCSSPRLVMNQSTDKICGSGLNSDMMENNKEEGASTSEKSRSSGSSRSKRKPSIVTKYVESDDEKPTDENVNEKAATENSENDITMQSLPKGTVIVQPEPVLNEDKDDFKGPEFRSRSKMKADNLKKRGEDGLHGIVSCTACGQQVNHFQKDSIYRHPSLKVLICKNCFKYYMSDDISRDSDGMDEQCRWCAEGGNLICCDFCHNAFCKKCILRNLGRKELSTIMDENNQWYCYICQPEPLLDLVTACNSVFENLEQLLQQNKKKIKVDSEKTSKVCDQTSKFSPKKSSSSCNGEEKKLEESCSGSVSSTYSHSALSVPKEMIKKTTKLIETTSNMNSSYIKFLKQAADNSEMTSAMKLCQLKSFKSVLDDIKKAHLALEEDLNSEIQALDDVHKEKNTKDLKSTDAKSETKLGKGEKSYSTEKREFLKLDARSSVKAIDGEEQRAHKSTSGEHKGSGRKDGSQYEPTNTPEDLDMDIVSVPSSVPEDIFDSLESAMEVQSSADYQGDGNSGTEPELESSSVKLNVSSKDSRGNIKSKVTAKVRKELFVKLTPVSLSNSPIKGVDCQEVSQEKNGRKSSGVARSSEKCRPREEISDHENNVTILLEDSDLRRSPRVKTTPLRRQTESNPAMSNSDEESNGTMKEKQKMSGPIRKKDKRNSADCATDNPKPHKVPKAKQPVIGDQNSDSDEMLAVLKEASQMGHSSSSDTDINEPQMNHKGKTGKDDNGKRKRKNSTSGSDFDTKKGKSTETSIISKKKRQNYSESSNYDSELEREIKTMSRIGAARKSVPEKKEEDSSEDEKQGKKVVDNGGHERAKTTQEGSSADDTGDTEGRQGGSCSIAGGSIEKVRSGVEFREMLCKPGVSSDGAEKPSVKEENVNSPEDKRVSKTKEKTKHLRSRQSRKGKGGSSDGTDRFPKKEQSDESSEGEKKQSRQRPGTKGKKAPDLKGETLKREQEWDSSSDGTERLPEEEEIGPFSKGIKQSKTDTAGGEKKGKKWKDKSCEKKEELSDSVDKLPGKGDSCDSSEDKKTRNRVSLREKKRFSLPAKSPGKRPECSSSDTEKSLKGQCCDSTEKRPKRIDLRERRNSSSKRNTKEVKSASSSSDAEGSSEDNKKQKKQRTSAKKKTGNTKEKKRNSLRATPKRKQVDITSSSSDIGDDDQNSAGEESSDEQKIKPVTENLVLPSHTGFCQSSGDEALSKSVPATVDDDDDDNDPENRIAKKMLLEEIKANLSSDEDGSSDDEPDGGGKKRIGKQSEESPADDGELRREQLAVNQVNSESDSDSEESKKPRYRHRLLRHKLTLSDGESGEEKPTKPKEHKEAKGRNRRKVSSEDSEDTDFQESGVSEEVSESEDEQRPRTRSAKKAELEENQRSYKQKKKRRRIKVQEDSSSENKSHSEEDKKEGDEEDEEDEDEDEEDENDDSKSPGKGRKKIRKILKDDKLRTETQNALKEEEERRKRIAEREREREKLREVIEIEDASPTKCPITTKLVLDENEETKEPLVQVHRNMVIKLKPHQVDGVQFMWDCCCESVEKTKKSPGSGCILAHCMGLGKTLQVVSFLHTVLLCDKLDFSTALVVCPLNTALNWMNEFEKWQEGLNDNEKLEVSELATVKRPQERSYMLQRWQEDGGVMIIGYEMYRNLAQGRNVKSRKLKDIFNKALVDPGPDFVVCDEGHILKNEASAVSKAMNSIKSRRRIILTGTPLQNNLIEYHCMVNFIKENLLGSIKEFRNRFINPIQNGQCADSTMVDVRVMKKRAHILYEMLAGCVQRKDYTALTKFLPPKHEYVLAVRMTAIQCKLYQYYLDHLTGVGNSTEGGRGKAGAKLFQDFQMLSRIWTHPWCLQLDYISKENKGYFDEDSMDEFIASDSDETSKSLSSDEKKKPKGKKGKKDSSSSGSGSDNDVEVIKVWNSRSRGGGDGNVDDTGNNPSVSLKLDESKTTSTSNPSSPAPDWYKDFVTDTDAEVLEHSGKMVLLFEILRMAEEIGDKVLVFSQSLISLDLIEDFLELASREKTEDKEKPLIYKGEGKWIRNIDYYRLDGSTNAQSRKKWAEEFNDETNVRGRLFIISTKAGSLGINLVAANRVIIFDASWNPSYDIQSIFRVYRFGQTKPVYVYRFLAQGTMEDKIYDRQVTKQSLSFRVVDQQQVERHFTMNELTELYTFEPDLLDDPNSEKKKKRDTPMLPKDTILAELLQIHKEHIVGYHEHDSLLDHKEEEELTEEERKAAWAEYEAEKKGLTMRFNIPTGTNLPPVTFTSQTPYIPFNLGALSAMSNQQLEDLINQGREKVVEATNSMTAVRIQPLEDIISTVWKENMNLSEAQVQALALSRQASQELDVKRREAIYNDVLTKQQMLINCVQRILMNRRLQQQYTQQQQQQLTYQQATLSHLMMPKPPNLIMTPSNYQQIDMRGMYQSVAGGMQPPPLQRAPPPTVRSKNPGPSPGKSM |
| 1079 | sp|Q07021|C1QBP\_HUMAN | MLPLLRCVPRVLGSSVAGLRAAAPASPFRQLLQPAPRLCTRPFGLLSVRAGSERRPGLLRPRGPCACGCGCGSLHTDGDKAFVDFLSDEIKEERKIQKHKTLPKMSGGWELELNGTEAKLVRKVAGEKITVTFNINNSIPPTFDGEEEPSQGQKVEEQEPELTSTPNFVVEVIKNDDGKKALVLDCHYPEDEVGQEDEAESDIFSIREVSFQSTGESEWKDTNYTLNTDSLDWALYDHLMDFLADRGVDNTFADELVELSTALEHQEYITFLEDLKSFVKSQ |
| 1080 | sp|Q5PSV4|BRM1L\_HUMAN | MPVHSRGDKKETNHHDEMEVDYAENEGSSSEDEDTESSSVSEDGDSSEMDDEDCERRRMECLDEMSNLEKQFTDLKDQLYKERLSQVDAKLQEVIAGKAPEYLEPLATLQENMQIRTKVAGIYRELCLESVKNKYECEIQASRQHCESEKLLLYDTVQSELEEKIRRLEEDRHSIDITSELWNDELQSRKKRKDPFSPDKKKPVVVSGPYIVYMLQDLDILEDWTTIRKAMATLGPHRVKTEPPVKLEKHLHSARSEEGRLYYDGEWYIRGQTICIDKKDECPTSAVITTINHDEVWFKRPDGSKSKLYISQLQKGKYSIKHS |
| 1081 | sp|Q9V407|AXN\_DROME | MSGHPSGIRKHDDNECSGPRPPVPGEESRVKKMTEGVADTSKNSSPSYLNWARTLNHLLEDRDGVELFKKYVEEEAPAYNDHLNFYFACEGLKQQTDPEKIKQIIGAIYRFLRKSQLSISDDLRAQIKAIKTNPEIPLSPHIFDPMQRHVEVTIRDNIYPTFLCSEMYILYIQQMSAQQERCTSSGATGSGSAGSSGSGGSSLAGACALPPTTASGKQQLPQLVPPGAFINLPVSSVSGPPAGTCSASGSVYGPSTSASSSGSISATDTLPRSSTLPTLHEDSVLSLCDDFEKVQMQEGGGSLGSGSVGAGARAPDYPIRLTRDLLIATQKRRLEIRPPGAHGYVYNPSTTNTSYVPNSRVDSERASVSSGGRTDSDTMSISSCSMDGRPYIQRRHSSTESKAIRQSAMANKETNTFQVIPRTQRLHSNEHRPLKEEELVSLLIPKLEEVKRKRDLEERARERNPGAALLTNERSSASDRAFAEAIREKFALDEDNDQDILDQHVSRVWKDQTPHRSPGTMSPCPPIPSRRRTATHDSGMVSDGAMSLSGHSMKHSKSMPDHSSCSRKLTNKWPSMNTDSGISMFSADTVTKYKDASSRSGSSTASKLEEAKRRLEDEPRRSRRYAQPPMQHLSQQPLASFSSSSSGGSISLPHQPPPLPAKPPETIVVFSFCEEPVPYRIKIPGTQPTLRQFKDYLPRRGHFRFFFKTHCEDPDSPVIQEEIVNDSDILPLFGDKAMGLVKPSD |
| 1082 | sp|O95972|BMP15\_HUMAN | MVLLSILRILFLCELVLFMEHRAQMAEGGQSSIALLAEAPTLPLIEELLEESPGEQPRKPRLLGHSLRYMLELYRRSADSHGHPRENRTIGATMVRLVKPLTNVARPHRGTWHIQILGFPLRPNRGLYQLVRATVVYRHHLQLTRFNLSCHVEPWVQKNPTNHFPSSEGDSSKPSLMSNAWKEMDITQLVQQRFWNNKGHRILRLRFMCQQQKDSGGLELWHGTSSLDIAFLLLYFNDTHKSIRKAKFLPRGMEEFMERESLLRRTRQADGISAEVTASSSKHSGPENNQCSLHPFQISFRQLGWDHWIIAPPFYTPNYCKGTCLRVLRDGLNSPNHAIIQNLINQLVDQSVPRPSCVPYKYVPISVLMIEANGSILYKEYEGMIAESCTCR |
| 1083 | sp|F4I443|BARD1\_ARATH | MAEFTNMLMNPWVLHLQKLELELKCPLCLKLLNRPVLLPCDHVFCDSCVHKSSQVESGCPVCKSKHPKKARRDLRFMESVISIYKSLNAAVSVHLPQLQIPNDCNYKNDALNNSNSPKHGESEDSEMTDKDVSKRSGGTDSSSRDGSPLPTSEESDPRPKHQDWTEKQLSDHLLLYEFESEYDAANHTPESYTEQAAKNVRDITASEQPSNAARKRICGDSFIQESSPNPKTQDPTLLRLMESLRSDDPTDYVKAQNHQQLPKSHTEQDSKRKRDITASDAMENHLKVPKRENNLMQKSADIDCNGKCSANSDDQLSEKISKALEQTSSNITICGFCQSARVSEATGEMLHYSRGRPVDGDDIFRSNVIHVHSACIEWAPQVYYEGDTVKNLKAELARGMKIKCTKCSLKGAALGCFVKSCRRSYHVPCAREISRCRWDYEDFLLLCPAHSSVKFPNEKSGHRVSRAEPLPKINPAELCSLEQTPAFTKELVLCGSALSKSDKKLMESLAVRFNATISRYWNPSVTHVIASTDEKGACTRTLKVLMGILNGKWIINAAWMKASLKASQPVDEEPFEIQIDTQGCQDGPKTARLRAETNKPKLFEGLKFYFFGDFYKGYKEDLQNLVKVAGGTILNTEDELGAESSNNVNDQRSSSIVVYNIDPPHGCALGEEVTIIWQRANDAEALASQTGSRLVGHTWVLESIAGYKLHPVIG |
| 1084 | sp|P27140|BCA1\_ARATH | MSTAPLSGFFLTSLSPSQSSLQKLSLRTSSTVACLPPASSSSSSSSSSSSRSVPTLIRNEPVFAAPAPIIAPYWSEEMGTEAYDEAIEALKKLLIEKEELKTVAAAKVEQITAALQTGTSSDKKAFDPVETIKQGFIKFKKEKYETNPALYGELAKGQSPKYMVFACSDSRVCPSHVLDFQPGDAFVVRNIANMVPPFDKVKYGGVGAAIEYAVLHLKVENIVVIGHSACGGIKGLMSFPLDGNNSTDFIEDWVKICLPAKSKVISELGDSAFEDQCGRCEREAVNVSLANLLTYPFVREGLVKGTLALKGGYYDFVKGAFELWGLEFGLSETSSVKDVATILHWKL |
| 1085 | sp|Q8TDH9|BL1S5\_HUMAN | MSGGGTETPVGCEAAPGGGSKKRDSLGTAGSAHLIIKDLGEIHSRLLDHRPVIQGETRYFVKEFEEKRGLREMRVLENLKNMIHETNEHTLPKCRDTMRDSLSQVLQRLQAANDSVCRLQQREQERKKIHSDHLVASEKQHMLQWDNFMKEQPNKRAEVDEEHRKAMERLKEQYAEMEKDLAKFSTF |
| 1086 | sp|P49003|BMP5\_MOUSE | MHWTVFLLRGIVGFLWSGWVQVGYAKGGLGDNHVHSSFIYRRLRNHERREIQREILSILGLPHRPRPFSPGKQASSAPLFMLDLYNAMASEDNPEEYLVRVSLAGEAKETRKGYPASPNGYAHRLHLPPRTPLTTQSPPLASLHDTNFLNDADMVMSFVNLVERDKDFSHQRRHYKEFRFDLTQIPHGEAVTAAEFRIYKDKGNHRFENETIKISIYQIIKEYTNRDADLFLLDTRKTQALDVGWLVFDITVTSNHWVINPQNNLGLQLCAETGDGRSINVKSAGLVGRHGPQSKQPFMVAFFKASEVLLRSVRAASKRKNQNRNKSNSHQDPSRMPSAGDYNTSEQKQACKKHELYVSFRDLGWQDWIIAPEGYAAFYCDGECSFPLNAHMNATNHAIVQTLVHLMFPDHVPKPCCAPTKLNAISVLYFDDSSNVILKKYRNMVVRSCGCH |
| 1087 | sp|Q21209|BARD1\_CAEEL | MFENTKKALETFRTAIECVKCKKPRGDLQYLGSSCKHAYCWECIATFQQKPSGKRSSVARHMCPSCAFPLDTSKITEAHMLKTCFDTLSELNDLLQKVGTTSLTQAEFACTQNIFNKEKTPADAVEKFLETQAHMPDEMGQLGEEDDDLMCKDENRENSNSPELDIFHDYSKEASPTRNSTKRPSTVSVHERKPKRSSILKTSVKNEPAAPVVDLFASQVPQRTHQNDLLTPFIERRSTAPAATGVATYAQAFGSSSNPVKAEIIEEDIFSKAIPLTKRQASMSASAKKQPKLEPEEPEEVPSTSRSRKNSIKSDKIERRSQSPMSFGEKSMSVKSEQRRSSYGTRRGEAVLVNSIRNNRIPQLRSAVEAGTCVNEKEDGKTPLYVAVENSSLEAVKILVEAGAVINASCGSTLETTLHEAVRRQNTQIVEYLLSKGASIKIRNIAGKTVEEMAKSDPKIRKIIEKFKTEQRVLQPVVAPPKSRLHFVQLIDEKMLTESEKRKLPGKINIVPADMDSPTHVVVTVDLKTRVLNINKEHIGEILKAIIKSGMIVSRDWLRACIIDPSKVDDDRSYMVQKVRWMEGEVFENTIEQWKKTITKMQPKLFAGCKFFIPKPKYNFLDRPALFEIIRSAGGQAAAREPIIDEKDPPPYHNANLKPNFVLYSLTHDIGDKFRDCTKYNLVSEQWLIEAILGCSITTPPH |
| 1088 | sp|P30996|BXF\_CLOBO | MPVAINSFNYNDPVNDDTILYMQIPYEEKSKKYYKAFEIMRNVWIIPERNTIGTNPSDFDPPASLKNGSSAYYDPNYLTTDAEKDRYLKTTIKLFKRINSNPAGKVLLQEISYAKPYLGNDHTPIDEFSPVTRTTSVNIKLSTNVESSMLLNLLVLGAGPDIFESCCYPVRKLIDPDVVYDPSNYGFGSINIVTFSPEYEYTFNDISGGHNSSTESFIADPAISLAHELIHALHGLYGARGVTYEETIEVKQAPLMIAEKPIRLEEFLTFGGQDLNIITSAMKEKIYNNLLANYEKIATRLSEVNSAPPEYDINEYKDYFQWKYGLDKNADGSYTVNENKFNEIYKKLYSFTESDLANKFKVKCRNTYFIKYEFLKVPNLLDDDIYTVSEGFNIGNLAVNNRGQSIKLNPKIIDSIPDKGLVEKIVKFCKSVIPRKGTKAPPRLCIRVNNSELFFVASESSYNENDINTPKEIDDTTNLNNNYRNNLDEVILDYNSQTIPQISNRTLNTLVQDNSYVPRYDSNGTSEIEEYDVVDFNVFFYLHAQKVPEGETNISLTSSIDTALLEESKDIFFSSEFIDTINKPVNAALFIDWISKVIRDFTTEATQKSTVDKIADISLIVPYVGLALNIIIEAEKGNFEEAFELLGVGILLEFVPELTIPVILVFTIKSYIDSYENKNKAIKAINNSLIEREAKWKEIYSWIVSNWLTRINTQFNKRKEQMYQALQNQVDAIKTAIEYKYNNYTSDEKNRLESEYNINNIEEELNKKVSLAMKNIERFMTESSISYLMKLINEAKVGKLKKYDNHVKSDLLNYILDHRSILGEQTNELSDLVTSTLNSSIPFELSSYTNDKILIIYFNRLYKKIKDSSILDMRYENNKFIDISGYGSNISINGNVYIYSTNRNQFGIYNSRLSEVNIAQNNDIIYNSRYQNFSISFWVRIPKHYKPMNHNREYTIINCMGNNNSGWKISLRTVRDCEIIWTLQDTSGNKENLIFRYEELNRISNYINKWIFVTITNNRLGNSRIYINGNLIVEKSISNLGDIHVSDNILFKIVGCDDETYVGIRYFKVFNTELDKTEIETLYSNEPDPSILKNYWGNYLLYNKKYYLFNLLRKDKYITLNSGILNINQQRGVTEGSVFLNYKLYEGVEVIIRKNGPIDISNTDNFVRKNDLAYINVVDRGVEYRLYADTKSEKEKIIRTSNLNDSLGQIIVMDSIGNNCTMNFQNNNGSNIGLLGFHSNNLVASSWYYNNIRRNTSSNGCFWSSISKENGWKE |
| 1089 | sp|Q13895|BYST\_HUMAN | MPKFKAARGVGGQEKHAPLADQILAGNAVRAGVREKRRGRGTGEAEEEYVGPRLSRRILQQARQQQEELEAEHGTGDKPAAPRERTTRLGPRMPQDGSDDEDEEWPTLEKAATMTAAGHHAEVVVDPEDERAIEMFMNKNPPARRTLADIIMEKLTEKQTEVETVMSEVSGFPMPQLDPRVLEVYRGVREVLSKYRSGKLPKAFKIIPALSNWEQILYVTEPEAWTAAAMYQATRIFASNLKERMAQRFYNLVLLPRVRDDVAEYKRLNFHLYMALKKALFKPGAWFKGILIPLCESGTCTLREAIIVGSIITKCSIPVLHSSAAMLKIAEMEYSGANSIFLRLLLDKKYALPYRVLDALVFHFLGFRTEKRELPVLWHQCLLTLVQRYKADLATDQKEALLELLRLQPHPQLSPEIRRELQSAVPRDVEDVPITVE |
| 1090 | sp|P18640|BXC\_CBCP | MPITINNFNYSDPVDNKNILYLDTHLNTLANEPEKAFRITGNIWVIPDRFSRNSNPNLNKPPRVTSPKSGYYDPNYLSTDSDKDTFLKEIIKLFKRINSREIGEELIYRLSTDIPFPGNNNTPINTFDFDVDFNSVDVKTRQGNNWVKTGSINPSVIITGPRENIIDPETSTFKLTNNTFAAQEGFGALSIISISPRFMLTYSNATNDVGEGRFSKSEFCMDPILILMHELNHAMHNLYGIAIPNDQTISSVTSNIFYSQYNVKLEYAEIYAFGGPTIDLIPKSARKYFEEKALDYYRSIAKRLNSITTANPSSFNKYIGEYKQKLIRKYRFVVESSGEVTVNRNKFVELYNELTQIFTEFNYAKIYNVQNRKIYLSNVYTPVTANILDDNVYDIQNGFNIPKSNLNVLFMGQNLSRNPALRKVNPENMLYLFTKFCHKAIDGRSLYNKTLDCRELLVKNTDLPFIGDISDVKTDIFLRKDINEETEVIYYPDNVSVDQVILSKNTSEHGQLDLLYPSIDSESEILPGENQVFYDNRTQNVDYLNSYYYLESQKLSDNVEDFTFTRSIEEALDNSAKVYTYFPTLANKVNAGVQGGLFLMWANDVVEDFTTNILRKDTLDKISDVSAIIPYIGPALNISNSVRRGNFTEAFAVTGVTILLEAFPEFTIPALGAFVIYSKVQERNEIIKTIDNCLEQRIKRWKDSYEWMMGTWLSRIITQFNNISYQMYDSLNYQAGAIKAKIDLEYKKYSGSDKENIKSQVENLKNSLDVKISEAMNNINKFIRECSVTYLFKNMLPKVIDELNEFDRNTKAKLINLIDSHNIILVGEVDKLKAKVNNSFQNTIPFNIFSYTNNSLLKDIINEYFNNINDSKILSLQNRKNTLVDTSGYNAEVSEEGDVQLNPIFPFDFKLGSSGEDRGKVIVTQNENIVYNSMYESFSISFWIRINKWVSNLPGYTIIDSVKNNSGWSIGIISNFLVFTLKQNEDSEQSINFSYDISNNAPGYNKWFFVTVTNNMMGNMKIYINGKLIDTIKVKELTGINFSKTITFEINKIPDTGLITSDSDNINMWIRDFYIFAKELDGKDINILFNSLQYTNVVKDYWGNDLRYNKEYYMVNIDYLNRYMYANSRQIVFNTRRNNNDFNEGYKIIIKRIRGNTNDTRVRGGDILYFDMTINNKAYNLFMKNETMYADNHSTEDIYAIGLREQTKDINDNIIFQIQPMNNTYYYASQIFKSNFNGENISGICSIGTYRFRLGGDWYRHNYLVPTVKQGNYASLLESTSTHWGFVPVSE |
| 1091 | sp|Q9LR78|BSU1\_ARATH | MAPDQSYQYPSPSYESIQTFYDTDEDWPGPRCGHTLTAVFVNNSHQLILFGGSTTAVANHNSSLPEISLDGVTNSVHSFDVLTRKWTRLNPIGDVPSPRACHAAALYGTLILIQGGIGPSGPSDGDVYMLDMTNNKWIKFLVGGETPSPRYGHVMDIAAQRWLVIFSGNNGNEILDDTWALDTRGPFSWDRLNPSGNQPSGRMYASGSSREDGIFLLCGGIDHSGVTLGDTYGLKMDSDNVWTPVPAVAPSPRYQHTAVFGGSKLHVIGGILNRARLIDGEAVVAVLDTETGEWVDTNQPETSASGANRQNQYQLMRRCHHAAASFGSHLYVHGGIREDVLLDDLLVAETSQSSSPEPEEDNPDNYMLLDDYLMDEPKPLSSEPEASSFIMRSTSEIAMDRLAEAHNLPTIENAFYDSAIEGYVPLQHGAETVGNRGGLVRTASLDQSTQDLHKKVISTLLRPKTWTPPANRDFFLSYLEVKHLCDEVEKIFMNEPTLLQLKVPIKVFGDIHGQYGDLMRLFHEYGHPSVEGDITHIDYLFLGDYVDRGQHSLEIIMLLFALKIEYPKNIHLIRGNHESLAMNRIYGFLTECEERMGESYGFEAWLKINQVFDYLPLAALLEKKVLCVHGGIGRAVTIEEIENIERPAFPDTGSMVLKDILWSDPTMNDTVLGIVDNARGEGVVSFGPDIVKAFLERNGLEMILRAHECVIDGFERFADGRLITVFSATNYCGTAQNAGAILVIGRDMVIYPKLIHPHPPPISSSEEDYTDKAWMQELNIEMPPTPARGESSE |
| 1092 | sp|Q9SJJ3|BLH8\_ARATH | MDMIKPDFQQIRRDKFRVEQMNDFPNTWTQQQHQNIRIPNNLDLIGILQNQISVPVQTDLYQDSAATFMNMPQSIHRDPQGPSNWRISDLSQPSTVNHGYDQAGIRPNNVADLLSDHFSSRNQILDRPLYVGRDSIPQSSMIRRSEVSCLDDNQKGCVTVACSGTGNEILRSSYDQGSSSGSYRGEFSFLPSLENQSVAHNASNWNHGPVNVTATSHTNSKKGFPLSLLSDIPPSRDVGNAAVLSTMNIHGPLGPFTGYASILKSSRFLEPAQKMLEEFCISYASKIISRSESTSMEDDDDDDDNLSGFSSSSEPLEPKNRLKKAKLLFLQEEVCKWYKLYNHQLQTVMSSFNTVAGLNTATPYISLALKRTSRSFKALRTAIAEHVKQISSHSSNGNNNNRFQKRQRSLIGNNVGFESQQQHIWRPQRGLPERAVAVLRAWLFDHFLHPYPTDSDKQMLATQTGLSRNQVSNWFINARVRLWKPMVEEIHTLETKAIKNADTSHNIEPSNRPNTVSSPSHEQTLTGLSGTKRSRLEYMDMVGFNRGNVSLTLELRRGVDNVIQTQTQDHQFGTGSQMFHDFVG |
| 1093 | sp|Q7TSU1|BIG2\_RAT | MQESQTKSMFVSRALEKILADKEVKRPQHSQLRRACQVALDEIKAELEKQRLGAAAPPKANFIEADKYFLPFELACQSKSPRVVSTSLDCLQKLIAYGHITGNAPDSGAPGKRLIDRIVETVCNCFQGPQTDEGVQLQIIKALLTAVTSPHIEIHEGTILQTVRTCYNIYLASKNLINQTTAKATLTQMLNVIFTRMENQVLQEARELEKPIQSKPQSPVIQATAGSPKFSRLKQSQAQSKPTTPEKTELPNGDHARSSLGKVNSENGEAHRERGSSISGRAEPSGGSDNGAQEVVKDILEDVVTSAVKEAAEKQGLPEPDQAPGVPECQECTVPPAVDENSQTNGIADDRQSLSSADNLEPDAQGHPVAARFSHILQKDAFLVFRSLCKLSMKPLGEGPPDPKSHELRSKVVSLQLLLSVLQNAGPVFRSHEMFVTAIKQYLCVALSKNGVSSVPDVFELSLAIFLTLLSNFKMHLKMQIEVFFKEIFLNILETSTSSFEHRWMVIQTLTRICADAQCVVDIYVNYDCDLNAANIFERLVNDLSKIAQGRSGHELGMTPLQELSLRKKGLECLVSILKCMVEWSKDLYVNPNHQATLGQERLPDQEMGDGKGLDMARRCSVTSVESTVSSGTQTAIPDDPEQFEVIKQQKEIIEHGIELFNKKPKRGIQFLQEQGMLGAAVEDIAQFLHQEERLDSTQVGEFLGDSTRFNKEVMYAYVDQLDFCEKEFVSALRTFLEGFRLPGEAQKIDRLMEKFAARYIECNQGQTLFASADTAYVLAYSIIMLTTDLHSPQVKNKMTKEQYIKMNRGINDSKDLPEEYLSSIYEEIEGKKIAMKETKEHTMATKSTKQNVASEKQRRLLYNVEMEQMAKTAKALMEAVSHAKAPFTSATHLDHVRPMFKLVWTPLLAAYSIGLQNCDDTEVASLCLEGIRCAVRIACIFGMQLERDAYVQALARFSLLTASSSITEMKQKNIDTIKTLITVAHTDGNYLGNSWHEILKCISQLELAQLIGTGVKTRYLSGSGREREGSLKGHSLAGEEFMGLGLGNLVSGGVDKRQMASFQESVGETSSQSVVVAVDRIFTGSTRLDGNAIVDFVRWLCAVSMDELASPHHPRMFSLQKIVEISYYNMNRIRLQWSRIWHVIGDHFNKVGCNPNEDVAIFAVDSLRQLSMKFLEKGELANFRFQKDFLRPFEHIMKKNRSPTIRDMVIRCIAQMVSSQAANIRSGWKNIFAVFHQAASDHDGNIVELAFQTTGHIVSTIFQHHFPAAIDSFQDAVKCLSEFACNAAFPDTSMEAIRLIRFCGKYVSERPRVLQEYTSDDMNVAPGDRVWVRGWFPILFELSCIINRCKLDVRTRGLTVMFEIMKSYGHTFAKHWWQDLFRIVFRIFDNMKLPEQQSEKSEWMTTTCNHALYAICDVFTQFYEALHEVLLSDVFAQLQWCVKQDNEQLARSGTNCLENLVISNGEKFSPAVWDETCNCMLDIFRTTIPHVLLTWRPAGMEEEVSDRHLDVDLDRQSLSSIDRNASERGQSQLSNPTDDSWKGAPYANQKLLASLLIKCVVQLELIQTIDNIVFYPATSKKEDAEHMVAAQQDTLDADIHIETENQGMYKFMSSQHLFKLLDCLQESHSFSKAFNSNYEQRTVLWRAGFKGKSKPNLLKQETSSLACCLRILFRMYVDENRRDSWGEIQQRLLTVCSEALAYFITVNSESHREAWTSLLLLLLTKTLKINDEKFKAHASVYYPYLCEMMQFDLIPELRAVLRKFFLRIGLVYKIWVPEEPSQVPAASTAW |
| 1094 | sp|D4A631|BIG1\_RAT | MYEGKKTKNMFLTRALEKILADKEVKKAHHSQLRKACEVALEEIKVETEKQSPPHGEAKAGSGTLPPVKSKTNFIEADKYFLPFELACQSKCPRIVSTSLDCLQKLIAYGHLTGSAPDSTTPGKKLIDRIIETICGCFQGPQTDEGVQLQIIKALLTAVTSQHIEIHEGTVLQAVRTCYNIYLASKNLINQTTAKATLTQMLNVIFARMENQALQEAKQMERERHRQQHHLLQSPVSHHEPESPHLRYLPPQTVDHIAQEQEGDLDPQTHDVDKSLQDDIEPENGSDISSAENEQTEADQATAAETLSKDDVLCDGECEEKPQDIVQSIVEEMVDIIVGDMGEGTAVSASADGNAGAVEDGSDSENVQANGIPGTPISAAYTPSLPDDRLSVSSNDTQESGNSSGPSPGAKFSHILQKDAFLVFRSLCKLSMKPLSDGPPDPKSHELRSKILSLQLLLSILQNAGPVFRTNEMFINAIKQYLCVALSKNGVSSVPEVFELSLSIFLTLLSNFKTHLKMQIEVFFKEIFLYILETSTSSFDHKWMVIQTLTRICADAQSVVDIYVNYDCDLNAANIFERLVNDLSKIAQGRGSQELGMSNVQELSLRKKGLECLVSILKCMVEWSKDQYVNPNSQTTLGQEKPSEQEISEIKHPETINRYGSLNSLESTSSSGIGSYSTQMSGTDNPEQFEVLKQQKEIIEQGIDLFNKKPKRGIQYLQEQGMLGTTPEDIAQFLHQEERLDSTQAGEFLGDNDKFNKEVMYAYVDQHDFSGKDFVSALRLFLEGFRLPGEAQKIDRLMEKFAARYLECNQGQTLFASADTAYVLAYSIIMLTTDLHSPQVKNKMTKEQYIKMNRGINDSKDLPEEYLSAIYNEIAGKKISMKETKELTIPTKSTKQNVASEKQRRLLYNLEMEQMAKTAKALMEAVSHVQAPFTSATHLEHVRPMFKLAWTPFLAAFSVGLQDCDDTDVASLCLEGIRCAIRIACIFSIQLERDAYVQALARFTLLTVSSGITEMKQKNIDTIKTLITVAHTDGNYLGNSWHEILKCISQLELAQLIGTGVKPRYISGTVRGREGSLTGTKDQAPDEFVGLGLVGGNVDWKQIASIQESIGETSSQSVVVAVDRIFTGSTRLDGNAIVDFVRWLCAVSMDELLSTTHPRMFSLQKIVEISYYNMGRIRLQWSRIWEVIGDHFNKVGCNPNEDVAIFAVDSLRQLSMKFLEKGELANFRFQKDFLRPFEHIMKRNRSPTIRDMVVRCIAQMVNSQAANIRSGWKNIFSVFHLAASDQDESIVELAFQTSGHIVTLVFEKHFPATIDSFQDAVKCLSEFACNAAFPDTSMEAIRLIRHCAKYVSDRPQAFKEYTSDDMNVAPEDRVWVRGWFPILFELSCVINRCKLDVRTRGLTVMFEIMKTYGHTYEKHWWQDLFRIVFRIFDNMKLPEQQTEKAEWMTTTCNHALYAICDVFTQYLEVLSDVLLDDIFAQLYWCVQQDNEQLARSGTNCLENVVILNGEKFTLEIWDKTCNCTLDIFKTTIPHALLTWRPTSGEAAPPSPSAMSEKQLDAISQKSVDIHDSAQPRSSDNRQQAPLVSVSPASEEVSKGRPTAKFPEQKLFAALLIKCVVQLELIQTIDNIVFFPATSKKEDAENLAAAQRDAVDFDVRVDTQDQGMYRFLTSQQLFKLLDCLLESHRFAKAFNSNNEQRTALWKAGFKGKSKPNLLKQETSSLACGLRILFRMYTDESRVSAWEEVQQRLLNVCSEALSYFLTLTSESHREAWTNLLLLFLTKVLKISDNRFKAHASFYYPLLCEIMQFDLIPELRAVLRRFFLRIGIVFQISQPPEQELGINKQ |
| 1095 | sp|Q9R1S0|B9D1\_MOUSE | MAAASPSVFLLMITGQVESAQFPEYDDLYCKYCFVYGQDWAPTAGLEEGISQIASKSQDVRQALVWNFPIDVTFKSTNPYGWPQIVLSVYGPDVFGNDVVRGYGAVHVPLSPGRHKRTIPMFVPESTSTLQKFTSWFMGRRPEYTDPKVVAQGEGREVTRVRSQGFVTLLFNVVTKDMKKLGYDTGPVDTQGVLGPSLPQGNPQ |
| 1096 | sp|Q4A1L5|BECN1\_PIG | MEGSKTSSSTMQVSFVCQRCSQPLKLDTSFKILDRVTIQELTAPLLATAQVKPGETQEEEANPGEEPFIETRQDGVSRRFIPPARMMSTESANSFTLIGEASDGGTMENLSRRLKVTGDLFDIMSGQTDVDHPLCEECTDTLLDQLDTQLNVTENECQNYKRCLEILEQMHEDDSEQLRMELRELALEEERLIQELEEVEKNRKIVAENLEKVQAEAERLDQEEAQYQREYSEFKRQQLELDDELKSVENQMRYAQMQLDKLKKTNVFNATFHIWHSGQFGTINNFRLGRLPSVPVEWNEINAAWGQTVLLLHALANKMGLKFQRYRLVPYGNHSYLESLTDKSKELPLYCSGGLRFFWDNKFDHAMVAFLDCVQQFKEEVEKGETRFCLPYRMDVEKGKIEDTGGSGGSYSIKTQFNSEEQWTKALKFMLTNLKWGLAWVSSQFYNK |
| 1097 | sp|Q6ZMB0|B3GN6\_HUMAN | MAFPCRRSLTAKTLACLLVGVSFLALQQWFLQAPRSPREERSPQEETPEGPTDAPAADEPPSELVPGPPCVANASANATADFEQLPARIQDFLRYRHCRHFPLLWDAPAKCAGGRGVFLLLAVKSAPEHYERRELIRRTWGQERSYGGRPVRRLFLLGTPGPEDEARAERLAELVALEAREHGDVLQWAFADTFLNLTLKHLHLLDWLAARCPHARFLLSGDDDVFVHTANVVRFLQAQPPGRHLFSGQLMEGSVPIRDSWSKYFVPPQLFPGSAYPVYCSGGGFLLSGPTARALRAAARHTPLFPIDDAYMGMCLERAGLAPSGHEGIRPFGVQLPGAQQSSFDPCMYRELLLVHRFAPYEMLLMWKALHSPALSCDRGHRVS |
| 1098 | sp|Q6PI77|BHLH9\_HUMAN | MAGTKNKTRAQAKTEKKAAIQAKAGAEREATGVVRPVAKTRAKAKAKTGSKTDAVAEMKAVSKNKVVAETKEGALSEPKTLGKAMGDFTPKAGNESTSSTCKNEAGTDAWFWAGEEATINSWFWNGEEAGNSFSTKNDKPEIGAQVCAEELEPAAGADCKPRSGAEEEEEENVIGNWFWEGDDTSFDPNPKPVSRIVKPQPVYEINEKNRPKDWSEVTIWPNAPAVTPAVLGFRSQAPSEASPPSYIVLASAEENACSLPVATACRPSRNTRSCSQPIPECRFDSDPCIQTIDEIRRQIRIREVNGIKPFACPCKMECYMDSEEFEKLVSLLKSTTDPLIHKIARIAMGVHNVHPFAQEFINEVGVVTLIESLLSFPSPEMRKKTVITLNPPSGDERQRKIELHVKHMCKETMSFPLNSPGQQSGLKILGQLTTDFVHHYIVANYFSELFHLLSSGNCKTRNLVLKLLLNMSENPTAARDMINMKALAALKLIFNQKEAKANLVSGVAIFINIKEHIRKGSIVVVDHLSYNTLMAIFREVKEIIETM |
| 1099 | sp|Q07440|B2LA1\_MOUSE | MAESELMHIHSLAEHYLQYVLQVPAFESAPSQACRVLQRVAFSVQKEVEKNLKSYLDDFHVESIDTARIIFNQVMEKEFEDGIINWGRIVTIFAFGGVLLKKLPQEQIALDVCAYKQVSSFVAEFIMNNTGEWIRQNGGWEDGFIKKFEPKSGWLTFLQMTGQIWEMLFLLK |
| 1100 | sp|O54918|B2L11\_MOUSE | MAKQPSDVSSECDREGGQLQPAERPPQLRPGAPTSLQTEPQGNPDGEGDRCPHGSPQGPLAPPASPGPFATRSPLFIFVRRSSLLSRSSSGYFSFDTDRSPAPMSCDKSTQTPSPPCQAFNHYLSAMASIRQSQEEPEDLRPEIRIAQELRRIGDEFNETYTRRVFANDYREAEDHPQMVILQLLRFIFRLVWRRH |
| 1101 | sp|P55291|CAD15\_HUMAN | MDAAFLLVLGLLAQSLCLSLGVPGWRRPTTLYPWRRAPALSRVRRAWVIPPISVSENHKRLPYPLVQIKSDKQQLGSVIYSIQGPGVDEEPRGVFSIDKFTGKVFLNAMLDREKTDRFRLRAFALDLGGSTLEDPTDLEIVVVDQNDNRPAFLQEAFTGRVLEGAVPGTYVTRAEATDADDPETDNAALRFSILQQGSPELFSIDELTGEIRTVQVGLDREVVAVYNLTLQVADMSGDGLTATASAIITLDDINDNAPEFTRDEFFMEAIEAVSGVDVGRLEVEDRDLPGSPNWVARFTILEGDPDGQFTIRTDPKTNEGVLSIVKALDYESCEHYELKVSVQNEAPLQAAALRAERGQAKVRVHVQDTNEPPVFQENPLRTSLAEGAPPGTLVATFSARDPDTEQLQRLSYSKDYDPEDWLQVDAATGRIQTQHVLSPASPFLKGGWYRAIVLAQDDASQPRTATGTLSIEILEVNDHAPVLAPPPPGSLCSEPHQGPGLLLGATDEDLPPHGAPFHFQLSPRLPELGRNWSLSQVNVSHARLRPRHQVPEGLHRLSLLLRDSGQPPQQREQPLNVTVCRCGKDGVCLPGAAALLAGGTGLSLGALVIVLASALLLLVLVLLVALRARFWKQSRGKGLLHGPQDDLRDNVLNYDEQGGGEEDQDAYDISQLRHPTALSLPLGPPPLRRDAPQGRLHPQPPRVLPTSPLDIADFINDGLEAADSDPSVPPYDTALIYDYEGDGSVAGTLSSILSSQGDEDQDYDYLRDWGPRFARLADMYGHPCGLEYGARWDHQAREGLSPGALLPRHRGRTA |
| 1102 | sp|P9WQI9|BACA\_MYCTU | MGPKLFKPSIDWSRAFPDSVYWVGKAWTISAICVLAILVLLRYLTPWGRQFWRITRAYFVGPNSVRVWLMLGVLLLSVVLAVRLNVLFSYQGNDMYTALQKAFEGIASGDGTVKRSGVRGFWMSIGVFSVMAVLHVTRVMADIYLTQRFIIAWRVWLTHHLTQDWLDGRAYYRDLFIDETIDNPDQRIQQDVDIFTAGAGGTPNAPSNGTASTLLFGAVQSIISVISFTAILWNLSGTLNIFGVSIPRAMFWTVLVYVFVATVISFIIGRPLIWLSFRNEKLNAAFRYALVRLRDAAEAVGFYRGERVEGTQLQRRFTPVIDNYRRYVRRSIAFNGWNLSVSQTIVPLPWVIQAPRLFAGQIDFGDVGQTATSFGNIHDSLSFFRNNYDAFASFRAAIIRLHGLVDANEKGRALPAVLTRPSDDESVELNDIEVRTPAGDRLIDPLDVRLDRGGSLVITGRSGAGKTTLLRSLAELWPYASGTLHRPGGENETMFLSQLPYVPLGTLRDVVCYPNSAAAIPDATLRDTLTKVALAPLCDRLDEERDWAKVLSPGEQQRVAFARILLTKPKAVFLDESTSALDTGLEFALYQLLRSELPDCIVISVSHRPALERLHENQLELLGGGQWRLAPVEAAPAEV |
| 1103 | sp|P47934|CACP\_MOUSE | MLAFAARTVVKPLGLLKPSSLMKVSGRFKAHQDALPRLPVPPLQQSLDYYLKALQPIVSEEEWAHTKQLVDEFQTSGGVGERLQKGLERRAKKMENWLSEWWLKTAYLQFRQPVVIYSSPGVILPKQDFVDLQGQLRFAAKLIEGVLDFKSMIDNETLPVEFLGGQPLCMNQYYQILSSCRVPGPKQDSVVNFLKSKRPPTHITVVHNYQFFELDVYHSDGTPLTSDQIFVQLEKIWNSSLQSNKEPVGILTSNHRNTWAKAYNNLIKDKVNRESVNSIQKSIFTVCLDKQVPRVSDDVYRNHVAGQMLHGGGSKFNSGNRWFDKTLQFIVAEDGSCGMVYEHAAAEGPPIVALVDHVMEYTKKPELVRSPMVPLPMPKKLRFNITPEIKNDIEKAKQNLSIMIQDLDIMMLTFHHFGKDFPKSEKLSPDAFIQVALQLAYYRIYGQACATYESASLRMFHLGRTDTIRSASIDSLAFVKGMGDSTVPEQQKVELLRKAVQAHRAYTDRAIRGEAFDRHLLGLKLQAIEDLVSMPDIFMDTSYAIAMHFNLSTSQVPAKTDCVMFFGPVVPDGYGICYNPMEAHINFSVSAYNSCAETNAARMAHYLEKALLDMRTLLQNHPRAKL |
| 1104 | sp|Q9R100|CAD17\_MOUSE | MVSAQLHFLCLLTLYLTCGYGEEGKFSGPLKPMTFSIFEGQEPSQVIFQFKTNPPAVTFELTGETDGIFKIEKDGLLYHTRALDRETRAVHHLQLAALDSHGAIVDGPVPITIEVKDINDNRPTFLQSKYEGSVRQNSRPGKPFMYVNATDLDDPATPNGQLFYQIVIQLPQINDVMYFQIDSKTGAISLTPEGSQELDPVKNPSYNLVVSVKDMGGQSENSFSDTTYVDISIRENIWKAPEPVEIRENSTDPHPIKITQVQWNDPGAQYSLVNKEKLSPFPFSIDQEGNIYVTQALDREEKNSHVFFATAKDENGKPLAYPLEIYVKVIDINDNPPTCLSPVTVFEVQENEPLGNSIGIFEAHDMDEANNINSILKYKLVDQTPKVPSDGLFLIGEYEGKVQLSKQSLKKQDSPQYNLSIEVSDVDFKTLCYIQVNVIDINDQIPIFETSNYGSKTLSEDTAIGSTILIIQATDADEPFTGSSKILYKIVQGDTEGRLEVVTDPTTNAGYVKIKKPLDFETQPVSSIVFQAENPEPLVKGIEYNASSFASFELIVTDVNEVPVFPQRIFQANVSEDAAVGSRVGNVTARDPEGLTVSYSLKGNMRGWLKIDSVTGEIFSAAPLDRETESVYRVQVVATEVGGSSLSSTADFHLVLTDVNDNPPRLAKDYTGLFFCHPLSAPGSLIFEVTDDDQQSLRRPKFTFALGREGLQSDWEVSKINGTHARLSTRHTRFEEQVYNIPIRINDGGQPPMEGTVFLPVTFCQCVEGSCFRPAGRQDGIPTVGMAVGILLTTFLVIGIILAVVFIRMRKDKVENPQSPENKPLRS |
| 1105 | sp|Q9P7F2|CAO1\_SCHPO | MAYYPHLPYHHHHHTSVPGERLSDPLDPLSADELKLAVEIIRHEYPSKHFAFNVVTLEEPPKAKYLHWKYSKEDAHKPERIALAVLLEKGVPGILEARVNLTKAEVIQIEHITGVCPILTADMLVNTEQIVRKDPAVIEQCILSGVPPDQMDHVYCDPWTIGYDERYGNTRRMQQAMMYYRSNEDDSQYSHPLDFCPIIDTEDQKVVAIDIPPVRRPLSKHKHSNFNKKDIEAELGKMREVKPISVTQPEGVNFRMKGRYIEWQNFRMHIGFNYREGIVLSDISYNDNGHIRPLFYRMSIAEMVVPYGNPEHPHQRKHAFDLGEYGAGYLTNPLALGCDCKGVIHYLDAHFVNNTGEVETVKNAICIHEEDDGVLFKHSDFRDKFRTTISARGIRLVISQIFTAANYEYMVYWIFHMDGVIECELKLTGILNTYAMNEGEDLKGWGTQVYPQVNAHNHQHLFCLRLNPMLDGYSNSVAVVDGVSGPGEPGSKENYYGNAFTTERTVPKTVKEAICDYNSDTSRTWDICNPNKLHPYSGKPVSYKLVSRETPRLMARPGSLVSNRAGFARHHIHVTPYKDGQIYPAGDYVPQTSGEPTKGLPEWIAEEPDASVDNTDIVVWHTFGITHFPAPEDFPLMPAEPIRLLLRPRNFFLRNPALDVPPSKNVTTSEVKQAHHHGNLHMMDMMKSLTDATSEFAFGEKFCEKHKGDHFF |
| 1106 | sp|Q13112|CAF1B\_HUMAN | MKVITCEIAWHNKEPVYSLDFQHGTAGRIHRLASAGVDTNVRIWKVEKGPDGKAIVEFLSNLARHTKAVNVVRFSPTGEILASGGDDAVILLWKVNDNKEPEQIAFQDEDEAQLNKENWTVVKTLRGHLEDVYDICWATDGNLMASASVDNTAIIWDVSKGQKISIFNEHKSYVQGVTWDPLGQYVATLSCDRVLRVYSIQKKRVAFNVSKMLSGIGAEGEARSYRMFHDDSMKSFFRRLSFTPDGSLLLTPAGCVESGENVMNTTYVFSRKNLKRPIAHLPCPGKATLAVRCCPVYFELRPVVETGVELMSLPYRLVFAVASEDSVLLYDTQQSFPFGYVSNIHYHTLSDISWSSDGAFLAISSTDGYCSFVTFEKDELGIPLKEKPVLNMRTPDTAKKTKSQTHRGSSPGPRPVEGTPASRTQDPSSPGTTPPQARQAPAPTVIRDPPSITPAVKSPLPGPSEEKTLQPSSQNTKAHPSRRVTLNTLQAWSKTTPRRINLTPLKTDTPPSSVPTSVISTPSTEEIQSETPGDAQGSPPELKRPRLDENKGGTESLDP |
| 1107 | sp|F4K2R6|CB60G\_ARATH | MKIRNSPSFHGGSGYSVFRARNLTFKKVVKKVMRDQSNNQFMIQMENMIRRIVREEIQRSLQPFLSSSCVSMERSRSETPSSRSRLKLCFINSPPSSIFTGSKIEAEDGSPLVIELVDATTNTLVSTGPFSSSRVELVPLNADFTEESWTVEGFNRNILTQREGKRPLLTGDLTVMLKNGVGVITGDIAFSDNSSWTRSRKFRLGAKLTGDGAVEARSEAFGCRDQRGESYKKHHPPCPSDEVWRLEKIAKDGVSATRLAERKILTVKDFRRLYTVNRNELHNIIGAGVSKKTWNTIVSHAMDCVLDETECYIYNANTPGVTLLFNSVYELIRVSFNGNDIQNLDQPILDQLKAEAYQNLNRITAVNDRTFVGHPQRSLQCPQDPGFVVTCSGSQHIDFQGSLDPSSSSMALCHKASSSTVHPDVLMSFDNSSTARFHIDKKFLPTFGNSFKVSELDQVHGKSQTVVTKGCIENNEEDENAFSYHHHDDMTSSWSPGTHQAVETMFLTVSETEEAGMFDVHFANVNLGSPRARWCKVKAAFKVRAAFKEVRRHTTARNPREGL |
| 1108 | sp|P10287|CADH3\_MOUSE | MELLSGPHAFLLLLLQVCWLRSVVSEPYRAGFIGEAGVTLEVEGTDLEPSQVLGKVALAGQGMHHADNGDIIMLTRGTVQGGKDAMHSPPTRILRRRKREWVMPPIFVPENGKGPFPQRLNQLKSNKDRGTKIFYSITGPGADSPPEGVFTIEKESGWLLLHMPLDREKIVKYELYGHAVSENGASVEEPMNISIIVTDQNDNKPKFTQDTFRGSVLEGVMPGTSVMQVTATDEDDAVNTYNGVVAYSIHSQEPKEPHDLMFTIHKSTGTISVISSGLDREKVPEYRLTVQATDMDGEGSTTTAEAVVQILDANDNAPEFEPQKYEAWVPENEVGHEVQRLTVTDLDVPNSPAWRATYHIVGGDDGDHFTITTHPETNQGVLTTKKGLDFEAQDQHTLYVEVTNEAPFAVKLPTATATVVVHVKDVNEAPVFVPPSKVIEAQEGISIGELVCIYTAQDPDKEDQKISYTISRDPANWLAVDPDSGQITAAGILDREDEQFVKNNVYEVMVLATDSGNPPTTGTGTLLLTLTDINDHGPIPEPRQIIICNQSPVPQVLNITDKDLSPNSSPFQAQLTHDSDIYWMAEVSEKGDTVALSLKKFLKQDTYDLHLSLSDHGNREQLTMIRATVCDCHGQVFNDCPRPWKGGFILPILGAVLALLTLLLALLLLVRKKRKVKEPLLLPEDDTRDNVFYYGEEGGGEEDQDYDITQLHRGLEARPEVVLRNDVVPTFIPTPMYRPRPANPDEIGNFIIENLKAANTDPTAPPYDSLLVFDYEGSGSDAASLSSLTTSASDQDQDYNYLNEWGSRFKKLADMYGGGEDD |
| 1109 | sp|Q9ZT64|CBG\_PINCO | MEVSVLMWVLLFYSLLGFQVTTARLDRNNFPSDFMFGTASSAYQYEGAVREDGKGPSTWDALTHMPGRIKDSSNGDVAVDQYHRYMEDIELMASLGLDAYRFSISWSRILPEGRGEINMAGIEYYNNLIDALLQNGIQPFVTLFHFDLPKALEDSYGGWLSPQIINDFEAYAEICFRAFGDRVKYWATVNEPNLFVPLGYTVGIFPPTRCAAPHANPLCMTGNCSSAEPYLAAHHVLLAHASAVEKYREKYQKIQGGSIGLVISAPWYEPLENSPEERSAVDRILSFNLRWFLDPIVFGDYPQEMRERLGSRLPSISSELSAKLRGSFDYMGINHYTTLYATSTPPLSPDHTQYLYPDSRVYLTGERHGVSIGERTGMDGLFVVPHGIQKIVEYVKEFYDNPTIIIAENGYPESEESSSTLQENLNDVRRIRFHGDCLSYLSAAIKNGSDVRGYFVWSLLDNFEWAFGYTIRFGLYHVDFISDQKRYPKLSAQWFRQFLQHDDQGSIRSSSSI |
| 1110 | sp|Q9WVC3|CAV2\_MOUSE | MGLETEKADVQLFMADDAYSHHSGVDYADPEKYVDSSHDRDPHQLNSHLKLGFEDLIAEPETTHSFDKVWICSHALFEISKYVMYKFLTVFLAIPLAFIAGILFATLSCLHIWILMPFVKTCLMVLPSVQTIWKSVTDVVIGPLCTSVGRSFSSVSMQLSHD |
| 1111 | sp|C5G6D7|CABC2\_BACT4 | MLILSFLCPAFLNAQIVTDERMFSFEEPQLPACITGVQSQLGISGAHYKDGKHSLEWTFEPNGRLELRKDLKFEKKDPTGKDLYLSAFIVWIYNEQPQDAAIEFEFLKDGRKCASFPFGINFKGWRAAWVCYERDMQGTPEEGMNELRIVAPDAKGRLFIDHLITATKVDARQQTADLQVPFVNAGTTNHWLVLYKHSLLKPDIELTPVSDKQRQEMKLLEKRFRDMIYTKGKVTEKEAETIRKKYDLYQITYKDGQVSGVPVFMVRASEAYERMIPDWDKDMLTKMGIEMRAYFDLMKRIAVAYNNSEAGSPIRKEMRRKFLAMYDHITDQGVAYGSCWGNIHHYGYSVRGLYPAYFLMKDVLREEGKLLEAERTLRWYAITNEVYPKPEGNGIDMDSFNTQTTGRIASILMMEDTPEKLQYLKSFSRWIDYGCRPAPGLAGSFKVDGGAFHHRNNYPAYAVGGLDGATNMIYLFSRTSLAVSELAHRTVKDVLLAMRFYCNKLNFPLSMSGRHPDGKGKLVPMHYAIMAIAGTPDGKGDFDKEMASAYLRLVSSDSSSAEQAPEYMPKVSNAQERKIAKRLVENGFRAEPDPQGNLSLGYGCVSVQRRENWSAVARGHSRYLWAAEHYLGHNLYGRYLAHGSLQILTAPPGQTVTPTTSGWQQEGFDWNRIPGVTSIHLPLDLLKANVLNVDTFSGMEEMLYSDEAFAGGLSQGKMNGNFGMKLHEHDKYNGTHRARKSFHFIDGMIVCLGSDIENTNMDYPTETTIFQLAVTDKAAHDYWKNNAGEGKVWMDHLGTGYYVPVAARFEKNFPQYSRMQDTGKETKGDWVSLIIDHGKAPKAGSYEYAILPGTDRKTMTAFAKKPAYSVLQQDRNAHILESPSDRITSYVLFETPQSLLPGGLLQRTDTSCLVMVRKESADKVLLTVAQPDLALYRGPSDEAFDKDGKRMERSIYSRPWIDNESGEIPVTVTLKGRWKVVETPYCKVVSEDKKQTVLRFLCKDGASYEVELEK |
| 1112 | sp|Q3ZDQ5|CAV3\_PIG | MMAEERTDLEAQIVKDIHFKEIDLVNRDPKNINEDIVKVDFEDVIAEPVGTYSFDGVWKVSYTTFTVSKYWCYRLLSTLLGVPLALLWGFLFACISFCHIWAVVPCIKSYLIEIQCISHIYSLCIRTFCNPVFAALGQVCSNIKVMLRKEV |
| 1113 | sp|Q28960|CBR1\_PIG | MSSNTRVALVTGANKGIGFAIVRDLCRQFAGDVVLTARDVARGQAAVKQLQAEGLSPRFHQLDIIDLQSIRALCDFLRKEYGGLDVLVNNAAIAFQLDNPTPFHIQAELTMKTNFMGTRNVCTELLPLIKPQGRVVNVSSTEGVRALNECSPELQQKFKSETITEEELVGLMNKFVEDTKNGVHRKEGWSDSTYGVTKIGVSVLSRIYARKLREQRAGDKILLNACCPGWVRTDMGGPKAPKSPEVGAETPVYLALLPSDAEGPHGQFVTDKKVVEWGVPPESYPWVNA |
| 1114 | sp|P78556|CCL20\_HUMAN | MCCTKSLLLAALMSVLLLHLCGESEAASNFDCCLGYTDRILHPKFIVGFTRQLANEGCDINAIIFHTKKKLSVCANPKQTWVKYIVRLLSKKVKNM |
| 1115 | sp|P97545|CCL11\_RAT | MQLSTALLFLLLTATSFTSQVLAHPGSIPTSCCFTMTSKKIPNTLLKSYKRITNNRCTLKAIVFKTKLGKEICADPKKKWVQDATKHLDQKLQTPKP |
| 1116 | sp|Q7LBR1|CHM1B\_HUMAN | MSNMEKHLFNLKFAAKELSRSAKKCDKEEKAEKAKIKKAIQKGNMEVARIHAENAIRQKNQAVNFLRMSARVDAVAARVQTAVTMGKVTKSMAGVVKSMDATLKTMNLEKISALMDKFEHQFETLDVQTQQMEDTMSSTTTLTTPQNQVDMLLQEMADEAGLDLNMELPQGQTGSVGTSVASAEQDELSQRLARLRDQV |
| 1117 | sp|Q92903|CDS1\_HUMAN | MLELRHRGSCPGPREAVSPPHREGEAAGGDHETESTSDKETDIDDRYGDLDSRTDSDIPEIPPSSDRTPEILKKALSGLSSRWKNWWIRGILTLTMISLFFLIIYMGSFMLMLLVLGIQVKCFHEIITIGYRVYHSYDLPWFRTLSWYFLLCVNYFFYGETVADYFATFVQREEQLQFLIRYHRFISFALYLAGFCMFVLSLVKKHYRLQFYMFAWTHVTLLITVTQSHLVIQNLFEGMIWFLVPISSVICNDITAYLFGFFFGRTPLIKLSPKKTWEGFIGGFFSTVVFGFIAAYVLSKYQYFVCPVEYRSDVNSFVTECEPSELFQLQTYSLPPFLKAVLRQERVSLYPFQIHSIALSTFASLIGPFGGFFASGFKRAFKIKDFANTIPGHGGIMDRFDCQYLMATFVHVYITSFIRGPNPSKVLQQLLVLQPEQQLNIYKTLKTHLIEKGILQPTLKV |
| 1118 | sp|P55273|CDN2D\_HUMAN | MLLEEVRAGDRLSGAAARGDVQEVRRLLHRELVHPDALNRFGKTALQVMMFGSTAIALELLKQGASPNVQDTSGTSPVHDAARTGFLDTLKVLVEHGADVNVPDGTGALPIHLAVQEGHTAVVSFLAAESDLHRRDARGLTPLELALQRGAQDLVDILQGHMVAPL |
| 1119 | sp|Q63699|CDK2\_RAT | MENFQKVEKIGEGTYGVVYKAKNKLTGEVVALKKIRLDTETEGVPSTAIREISLLKELNHPNIVKLLDVIHTENKLYLVFEFLHQDLKKFMDASALTGLPLPLIKSYLFQLLQGLAFCHSHRVLHRDLKPQNLLINAEGSIKLADFGLARAFGVPVRTYTHEVVTLWYRAPEILLGCKYYSTAVDIWSLGCIFAEMVTRRALFPGDSEIDQLFRIFRTLGTPDEVVWPGVTSMPDYKPSFPKWARQDFSKVVPPLDEDGRSLLSQMLHYDPNKRISAKAALAHPFFQDVTKPVPHLRL |
| 1120 | sp|Q9VT57|CDK8\_DROME | MDYDFKMKTQIERTKVEDLFNYEGCKVGRGTYGHVYKAKWKETSDGKEYALKQIDGTGLSMSACREIALLRELKHQNVITLIRVFLSHNDRKVFLLIDYAEHDLWHIIKFHRAAKATKKQVVVPRGMVKSLLYQILDGIHYLHSNWVLHRDLKPANILVMGDGNERGRVKIADMGFARLFNAPLKPLADLDPVVVTFWYRAPELLLGARHYTKAIDIWAIGCIFAELLTSEPIFHCRQEDIKTSNPYHHDQLDRIFNVMGFPQDKDWEDIKKMPEHHTLTKDFKRSTYSTCSLAKYMERHKIKPDSKAFHLLQKLLLMDPNKRITSEQAMQDQYFQEEPQPTQDVFAGCPIPYPKREFLTDDDQEDKSDNKRQQQQQQQQQQQQQQQQQQQQQQQQQQQQMNAEPNAKRVRLSGAGNQQDFHHQQQQQQQQQQQQQQQQQQMMFNQQQNFQRFN |
| 1121 | sp|P48745|CCN3\_HUMAN | MQSVQSTSFCLRKQCLCLTFLLLHLLGQVAATQRCPPQCPGRCPATPPTCAPGVRAVLDGCSCCLVCARQRGESCSDLEPCDESSGLYCDRSADPSNQTGICTAVEGDNCVFDGVIYRSGEKFQPSCKFQCTCRDGQIGCVPRCQLDVLLPEPNCPAPRKVEVPGECCEKWICGPDEEDSLGGLTLAAYRPEATLGVEVSDSSVNCIEQTTEWTACSKSCGMGFSTRVTNRNRQCEMLKQTRLCMVRPCEQEPEQPTDKKGKKCLRTKKSLKAIHLQFKNCTSLHTYKPRFCGVCSDGRCCTPHNTKTIQAEFQCSPGQIVKKPVMVIGTCTCHTNCPKNNEAFLQELELKTTRGKM |
| 1122 | sp|Q966L8|CHE1\_CAEEL | MSYHYQMNNNNTDFFDSANYIPQMQMHHGYQDFYASDSTSSMPSSGTTQQALQQTENGIIQGQNGSDHGVAFHFRAYGGWRQHDWNSTSSWSIGNQLEMENGTLTMSHGATNDGNIRNNQQMMTSNHITTDSFRQIPPSGLCYMDPTPSLRLPKKEPLPVQRPMARSTPKPFRCQTCGKAFSQAANLTAHKRIHTGEKPFMCPVCNRPFSQSSSLVTHRRTHTGERPYPCAQCEKAFTDSSTLTKHLRTHTGHKPYVCSICMMKFTQSGNLHRHMKTHK |
| 1123 | sp|Q14AX6|CDK12\_MOUSE | MPNSERHGGKKDGSGGASGTSQPSSGGGSSNSRERHRLVSKHKRHKSKHSKDVGLVTPEAASLGTIIKPLVEYDDISSDSDTFSDDTAFKSDRRENEERRGTDRSDRLHRHRHHQHRRSRDLLKTKQTEKEKNQEVSKSGSMKDRVSGSSKRSVEGSDDYGKAQLSKSGSKESRSSKMHKEKTRKERELKSGYKDRSKSHRKRETPKSYKTVASPKRRSRSPHRKWSDSSKQDDSPSGASYGQDYDLSPPRSHTSSNYDSYKKSPGSTSRRQSISPPYKEPSAYQSSTRSPSPYSRRQRSVSPYSRRRSSSYERSGSYSGRSPSPYGRRRSSSPFLSKRSLSRSPLPSRKSMKSRSRSPAYSRHSSSHSKKKRSGSRSRHSSISPVRLPLNSSLGAELSRKKKERAAAAAAAKMDGKESKSSPIILPKKEKLEVKESGLESKKLPRSIKSEKSTPDTELVTVAHSNPEVKHCLDTGKVRLDENLQKHPAKDLKAQGTKDVKPVAPKEVIVTSKETETSEKETLPPLPTITSPPPLPATTPPPQTPPLPPLPPLPAIPLQPPLPPPQPPFSQVPVSSTSILPSSPHPRTSTLSSQTNSQPPVQVSMKTQVSITAAIPHLKTSTLPPLPLPPLLPGDDDMDSPKETLPSKPAKKEKEQRTRHLLTDLPLPPELPGGDPSPPDSPEPKAITPPQQPYKKRPKICCPRYGERRQTESDWGKRCVDKFDIIGIIGEGTYGQVYKAKDKDTGELVALKKVRLDNEKEGFPITAIREIKILRQLVHQSVVNMKEIVTDKQDALDFKKDKGAFYLVFEYMDHDLMGLLESGLVHFSEDHIKSFMKQLMEGLDYCHKKNFLHRDIKCSNILLNNSGQIKLADFGLARLYNSEESRPYTNKVITLWYRPPELLLGEERYTPAIDVWSCGCILGELFTKKPIFQANLELAQLELISRLCGSPCPAVWPDVIKLPYFNTMKPKKQYRRRLREEFSFIPSAALDLLDHMLTLDPSKRCTAEQTLQSDFLKDVELSKMAPPDLPHWQDCHELWSKKRRRQRQSGIVIEDPPPSKASRKETTSGTTAEPVKNNSPAPPQPAPVKAEPGPGDAVGLGDITQQLNQSELAVLLNLLQSQTDLSIPQMAQLLNIHSNPEMQQQLEALNQSISALTEASSQQQDSESIAPEESLKEVPSVPVVLPPAEQTTPEASNTPADMQNVLAVLLSQLMKTQEPAGNLEENTNDKNSGPQGPRRTPTMPQEEAAACPPHILPPEKRPPEPPGPPPPPPPPPLVEGDLSSAPQELNPAVTAALLQLLSQPEAEPPGHLPHEHQALRPMEYSTRSHPNRTYGNTDGPETGFSSADTDERSSGPALTESLVQTPVKNRTFSGSVSHLGESNSYQGTGSVQFPGDQDLRFTRVPLALHSVVGQPFLKSEGNSNSVVHAETKLQNYGELGPGTTGANSSGTTLQWGGPAQSYGKPYRGAARVLPRGGRGRGVPY |
| 1124 | sp|P08571|CD14\_HUMAN | MERASCLLLLLLPLVHVSATTPEPCELDDEDFRCVCNFSEPQPDWSEAFQCVSAVEVEIHAGGLNLEPFLKRVDADADPRQYADTVKALRVRRLTVGAAQVPAQLLVGALRVLAYSRLKELTLEDLKITGTMPPLPLEATGLALSSLRLRNVSWATGRSWLAELQQWLKPGLKVLSIAQAHSPAFSCEQVRAFPALTSLDLSDNPGLGERGLMAALCPHKFPAIQNLALRNTGMETPTGVCAALAAAGVQPHSLDLSHNSLRATVNPSAPRCMWSSALNSLNLSFAGLEQVPKGLPAKLRVLDLSCNRLNRAPQPDELPEVDNLTLDGNPFLVPGTALPHEGSMNSGVVPACARSTLSVGVSGTLVLLQGARGFA |
| 1125 | sp|P29017|CD1C\_HUMAN | MLFLQFLLLALLLPGGDNADASQEHVSFHVIQIFSFVNQSWARGQGSGWLDELQTHGWDSESGTIIFLHNWSKGNFSNEELSDLELLFRFYLFGLTREIQDHASQDYSKYPFEVQVKAGCELHSGKSPEGFFQVAFNGLDLLSFQNTTWVPSPGCGSLAQSVCHLLNHQYEGVTETVYNLIRSTCPRFLLGLLDAGKMYVHRQVRPEAWLSSRPSLGSGQLLLVCHASGFYPKPVWVTWMRNEQEQLGTKHGDILPNADGTWYLQVILEVASEEPAGLSCRVRHSSLGGQDIILYWGHHFSMNWIALVVIVPLVILIVLVLWFKKHCSYQDIL |
| 1126 | sp|Q96Q40|CDK15\_HUMAN | MGQELCAKTVQPGCSCYHCSEGGEAHSCRRSQPETTEAAFKLTDLKEASCSMTSFHPRGLQAARAQKFKSKRPRSNSDCFQEEDLRQGFQWRKSLPFGAASSYLNLEKLGEGSYATVYKGISRINGQLVALKVISMNAEEGVPFTAIREASLLKGLKHANIVLLHDIIHTKETLTFVFEYMHTDLAQYMSQHPGGLHPHNVRLFMFQLLRGLAYIHHQHVLHRDLKPQNLLISHLGELKLADFGLARAKSIPSQTYSSEVVTLWYRPPDALLGATEYSSELDIWGAGCIFIEMFQGQPLFPGVSNILEQLEKIWEVLGVPTEDTWPGVSKLPNYNPEWFPLPTPRSLHVVWNRLGRVPEAEDLASQMLKGFPRDRVSAQEALVHDYFSALPSQLYQLPDEESLFTVSGVRLKPEMCDLLASYQKGHHPAQFSKCW |
| 1127 | sp|Q53EZ4|CEP55\_HUMAN | MSSRSTKDLIKSKWGSKPSNSKSETTLEKLKGEIAHLKTSVDEITSGKGKLTDKERHRLLEKIRVLEAEKEKNAYQLTEKDKEIQRLRDQLKARYSTTTLLEQLEETTREGERREQVLKALSEEKDVLKQQLSAATSRIAELESKTNTLRLSQTVAPNCFNSSINNIHEMEIQLKDALEKNQQWLVYDQQREVYVKGLLAKIFELEKKTETAAHSLPQQTKKPESEGYLQEEKQKCYNDLLASAKKDLEVERQTITQLSFELSEFRRKYEETQKEVHNLNQLLYSQRRADVQHLEDDRHKTEKIQKLREENDIARGKLEEEKKRSEELLSQVQFLYTSLLKQQEEQTRVALLEQQMQACTLDFENEKLDRQHVQHQLHVILKELRKARNQITQLESLKQLHEFAITEPLVTFQGETENREKVAASPKSPTAALNESLVECPKCNIQYPATEHRDLLVHVEYCSK |
| 1128 | sp|Q6P2H3|CEP85\_HUMAN | MAMQEKYPTEGISHVTSPSSDVIQKGSSLGTEWQTPVISEPFRSRFSRCSSVADSGDTAIGTSCSDIAEDFCSSSGSPPFQPIKSHVTIPTAHVMPSTLGTSPAKPNSTPVGPSSSKLPLSGLAESVGMTRNGDLGAMKHSPGLSRDLMYFSGATGENGIEQSWFPAVGHERQEEARKFDIPSMESTLNQSAMMETLYSDPHHRVRFHNPRTSTSKELYRVLPEAKKAPGSGAVFERNGPHSNSSGVLPLGLQPAPGLSKPLPSQVWQPSPDTWHPREQSCELSTCRQQLELIRLQMEQMQLQNGAICHHPAAFGPSLPILEPAQWISILNSNEHLLKEKELLIDKQRKHISQLEQKVRESELQVHSALLGRPAPFGDVCLLRLQELQRENTFLRAQFAQKTEALSREKIDLEKKLSASEVEVQLIRESLKVALQKHSEEVKKQEERVKGRDKHINNLKKKCQKESEQNREKQQRIETLERYLADLPTLEDHQKQSQQLKDSELKSTELQEKVTELESLLEETQAICREKEIQLESLRQREAEFSSAGHSLQDKQSVEETSGEGPEVEMESWQKRYDSLQKIVEKQQQKMDQLRSQVQSLEQEVAQEEGTSQALREEAQRRDSALQQLRTAVKELSVQNQDLIEKNLTLQEHLRQAQPGSPPSPDTAQLALELHQELASCLQDLQAVCSIVTQRAQGHDPNLSLLLGIHSAQHPETQLDLQKPDVIKRKLEEVQQLRRDIEDLRTTMSDRYAQDMGENCVTQ |
| 1129 | sp|P27544|CERS1\_HUMAN | MAAAGPAAGPTGPEPMPSYAQLVQRGWGSALAAARGCTDCGWGLARRGLAEHAHLAPPELLLLALGALGWTALRSAATARLFRPLAKRCCLQPRDAAKMPESAWKFLFYLGSWSYSAYLLFGTDYPFFHDPPSVFYDWTPGMAVPRDIAAAYLLQGSFYGHSIYATLYMDTWRKDSVVMLLHHVVTLILIVSSYAFRYHNVGILVLFLHDISDVQLEFTKLNIYFKSRGGSYHRLHALAADLGCLSFGFSWFWFRLYWFPLKVLYATSHCSLRTVPDIPFYFFFNALLLLLTLMNLYWFLYIVAFAAKVLTGQVHELKDLREYDTAEAQSLKPSKAEKPLRNGLVKDKRF |
| 1130 | sp|P16671|CD36\_HUMAN | MGCDRNCGLIAGAVIGAVLAVFGGILMPVGDLLIQKTIKKQVVLEEGTIAFKNWVKTGTEVYRQFWIFDVQNPQEVMMNSSNIQVKQRGPYTYRVRFLAKENVTQDAEDNTVSFLQPNGAIFEPSLSVGTEADNFTVLNLAVAAASHIYQNQFVQMILNSLINKSKSSMFQVRTLRELLWGYRDPFLSLVPYPVTTTVGLFYPYNNTADGVYKVFNGKDNISKVAIIDTYKGKRNLSYWESHCDMINGTDAASFPPFVEKSQVLQFFSSDICRSIYAVFESDVNLKGIPVYRFVLPSKAFASPVENPDNYCFCTEKIISKNCTSYGVLDISKCKEGRPVYISLPHFLYASPDVSEPIDGLNPNEEEHRTYLDIEPITGFTLQFAKRLQVNLLVKPSEKIQVLKNLKRNYIVPILWLNETGTIGDEKANMFRSQVTGKINLLGLIEMILLSVGVVMFVAFMISYCACRSKTIK |
| 1131 | sp|P70110|CD36\_MESAU | MGCDRNCGLIAGAVIGAVLAVFGGILMPVGDMLVEKTIKKEVVLEEGTIAFKNWVKTGTTVYRQFWIFDVQNPDEVAVNSSKIKVKQRGPYTYRVRYLAKENITQDPVDSTVSFVQPNGAIFEPSLSVGTENDTFTILNLAVAAAPHIYTNSFVQVVLNSLIKKSKSSMFQTRTLRELLWGYKDPFLSLVPYPIPTTVGVFYPYNDTADGVYKVFNGKDDINKVAIIDSYKGKRNLSYWESYCDMINGTDAASFPPFVEKSRVLRFFSSDICRSIYAVFGSDIELKGIPVYRFILPAKAFASPVQNPDNHCFCTEKVISNNCTSYGVLDISKCKQGRPVYISLPHFLHASPDISEPIEGLNPNEEEHRTYLDVEPITGFTLQFAKRLQVNILVKPARKIEALKNLKRNYIVPILWLNETGTIGDEKAEMFRNQVTGKVKLLGLVEMVLLGLGVVMFVAFMISYCACRSKNRK |
| 1132 | sp|P06684|CO5\_MOUSE | MGLWGILCLLIFLDKTWGQEQTYVISAPKILRVGSSENVVIQVHGYTEAFDATLSLKSYPDKKVTFSSGYVNLSPENKFQNAALLTLQPNQVPREESPVSHVYLEVVSKHFSKSKKIPITYNNGILFIHTDKPVYTPDQSVKIRVYSLGDDLKPAKRETVLTFIDPEGSEVDIVEENDYTGIISFPDFKIPSNPKYGVWTIKANYKKDFTTTGTAYFEIKEYVLPRFSVSIELERTFIGYKNFKNFEITVKARYFYNKVVPDAEVYAFFGLREDIKDEEKQMMHKATQAAKLVDGVAQISFDSETAVKELSYNSLEDLNNKYLYIAVTVTESSGGFSEEAEIPGVKYVLSPYTLNLVATPLFVKPGIPFSIKAQVKDSLEQAVGGVPVTLMAQTVDVNQETSDLETKRSITHDTDGVAVFVLNLPSNVTVLKFEIRTDDPELPEENQASKEYEAVAYSSLSQSYIYIAWTENYKPMLVGEYLNIMVTPKSPYIDKITHYNYLILSKGKIVQYGTREKLFSSTYQNINIPVTQNMVPSARLLVYYIVTGEQTAELVADAVWINIEEKCGNQLQVHLSPDEYVYSPGQTVSLDMVTEADSWVALSAVDRAVYKVQGNAKRAMQRVFQALDEKSDLGCGAGGGHDNADVFHLAGLTFLTNANADDSHYRDDSCKEILRSKRNLHLLRQKIEEQAAKYKHSVPKKCCYDGARVNFYETCEERVARVTIGPLCIRAFNECCTIANKIRKESPHKPVQLGRIHIKTLLPVMKADIRSYFPESWLWEIHRVPKRKQLQVTLPDSLTTWEIQGIGISDNGICVADTLKAKVFKEVFLEMNIPYSVVRGEQIQLKGTVYNYMTSGTKFCVKMSAVEGICTSGSSAASLHTSRPSRCVFQRIEGSSSHLVTFTLLPLEIGLHSINFSLETSFGKDILVKTLRVVPEGVKRESYAGVILDPKGIRGIVNRRKEFPYRIPLDLVPKTKVERILSVKGLLVGEFLSTVLSKEGINILTHLPKGSAEAELMSIAPVFYVFHYLEAGNHWNIFYPDTLSKRQSLEKKIKQGVVSVMSYRNADYSYSMWKGASASTWLTAFALRVLGQVAKYVKQDENSICNSLLWLVEKCQLENGSFKENSQYLPIKLQGTLPAEAQEKTLYLTAFSVIGIRKAVDICPTMKIHTALDKADSFLLENTLPSKSTFTLAIVAYALSLGDRTHPRFRLIVSALRKEAFVKGDPPIYRYWRDTLKRPDSSVPSSGTAGMVETTAYALLASLKLKDMNYANPIIKWLSEEQRYGGGFYSTQDTINAIEGLTEYSLLLKQIHLDMDINVAYKHEGDFHKYKVTEKHFLGRPVEVSLNDDLVVSTGYSSGLATVYVKTVVHKISVSEEFCSFYLKIDTQDIEASSHFRLSDSGFKRIIACASYKPSKEESTSGSSHAVMDISLPTGIGANEEDLRALVEGVDQLLTDYQIKDGHVILQLNSIPSRDFLCVRFRIFELFQVGFLNPATFTVYEYHRPDKQCTMIYSISDTRLQKVCEGAACTCVEADCAQLQAEVDLAISADSRKEKACKPETAYAYKVRITSATEENVFVKYTATLLVTYKTGEAADENSEVTFIKKMSCTNANLVKGKQYLIMGKEVLQIKHNFSFKYIYPLDSSTWIEYWPTDTTCPSCQAFVENLNNFAEDLFLNSCE |
| 1133 | sp|O35089|CNIH2\_MOUSE | MAFTFAAFCYMLTLVLCASLIFFVIWHIIAFDELRTDFKNPIDQGNPARARERLKNIERICCLLRKLVVPEYSIHGLFCLMFLCAAEWVTLGLNIPLLFYHLWRYFHRPADGSEVMYDAVSIMNADILNYCQKESWCKLAFYLLSFFYYLYSMVYTLVSF |
| 1134 | sp|P53996|CNBP\_MOUSE | MSSNECFKCGRSGHWARECPTGGGRGRGMRSRGRGGFTSDRGFQFVSSSLPDICYRCGESGHLAKDCDLQEDEACYNCGRGGHIAKDCKEPKREREQCCYNCGKPGHLARDCDHADEQKCYSCGEFGHIQKDCTKVKCYRCGETGHVAINCSKTSEVNCYRCGESGHLARECTIEATA |
| 1135 | sp|P61024|CKS1\_HUMAN | MSHKQIYYSDKYDDEEFEYRHVMLPKDIAKLVPKTHLMSESEWRNLGVQQSQGWVHYMIHEPEPHILLFRRPLPKKPKK |
| 1136 | sp|P02463|CO4A1\_MOUSE | MGPRLSVWLLLLFAALLLHEERSRAAAKGDCGGSGCGKCDCHGVKGQKGERGLPGLQGVIGFPGMQGPEGPHGPPGQKGDAGEPGLPGTKGTRGPPGAAGYPGNPGLPGIPGQDGPPGPPGIPGCNGTKGERGPLGPPGLPGFSGNPGPPGLPGMKGDPGEILGHVPGTLLKGERGFPGIPGMPGSPGLPGLQGPVGPPGFTGPPGPPGPPGPPGEKGQMGSSFQGPKGDKGEQGVSGPPGVPGQAQVKEKGDFAPTGEKGQKGEPGFPGVPGYGEKGEPGKQGPRGKPGKDGEKGERGSPGIPGDSGYPGLPGRQGPQGEKGEAGLPGPPGTVIGTMPLGEKGDRGYPGAPGLRGEPGPKGFPGTPGQPGPPGFPTPGQAGAPGFPGERGEKGDQGFPGVSLPGPSGRDGAPGPPGPPGPPGQPGHTNGIVECQPGPPGDQGPPGTPGQPGLTGEVGQKGQKGESCLACDTEGLRGPPGPQGPPGEIGFPGQPGAKGDRGLPGRDGLEGLPGPQGSPGLIGQPGAKGEPGEIFFDMRLKGDKGDPGFPGQPGMPGRAGTPGRDGHPGLPGPKGSPGSIGLKGERGPPGGVGFPGSRGDIGPPGPPGVGPIGPVGEKGQAGFPGGPGSPGLPGPKGEAGKVVPLPGPPGAAGLPGSPGFPGPQGDRGFPGTPGRPGIPGEKGAVGQPGIGFPGLPGPKGVDGLPGEIGRPGSPGRPGFNGLPGNPGPQGQKGEPGIGLPGLKGQPGLPGIPGTPGEKGSIGGPGVPGEQGLTGPPGLQGIRGDPGPPGVQGPAGPPGVPGIGPPGAMGPPGGQGPPGSSGPPGIKGEKGFPGFPGLDMPGPKGDKGSQGLPGLTGQSGLPGLPGQQGTPGVPGFPGSKGEMGVMGTPGQPGSPGPAGTPGLPGEKGDHGLPGSSGPRGDPGFKGDKGDVGLPGMPGSMEHVDMGSMKGQKGDQGEKGQIGPTGDKGSRGDPGTPGVPGKDGQAGHPGQPGPKGDPGLSGTPGSPGLPGPKGSVGGMGLPGSPGEKGVPGIPGSQGVPGSPGEKGAKGEKGQSGLPGIGIPGRPGDKGDQGLAGFPGSPGEKGEKGSAGTPGMPGSPGPRGSPGNIGHPGSPGLPGEKGDKGLPGLDGVPGVKGEAGLPGTPGPTGPAGQKGEPGSDGIPGSAGEKGEQGVPGRGFPGFPGSKGDKGSKGEVGFPGLAGSPGIPGVKGEQGFMGPPGPQGQPGLPGTPGHPVEGPKGDRGPQGQPGLPGHPGPMGPPGFPGINGPKGDKGNQGWPGAPGVPGPKGDPGFQGMPGIGGSPGITGSKGDMGLPGVPGFQGQKGLPGLQGVKGDQGDQGVPGPKGLQGPPGPPGPYDVIKGEPGLPGPEGPPGLKGLQGPPGPKGQQGVTGSVGLPGPPGVPGFDGAPGQKGETGPFGPPGPRGFPGPPGPDGLPGSMGPPGTPSVDHGFLVTRHSQTTDDPLCPPGTKILYHGYSLLYVQGNERAHGQDLGTAGSCLRKFSTMPFLFCNINNVCNFASRNDYSYWLSTPEPMPMSMAPISGDNIRPFISRCAVCEAPAMVMAVHSQTIQIPQCPNGWSSLWIGYSFVMHTSAGAEGSGQALASPGSCLEEFRSAPFIECHGRGTCNYYANAYSFWLATIERSEMFKKPTPSTLKAGELRTHVSRCQVCMRRT |
| 1137 | sp|A5YKK6|CNOT1\_HUMAN | MNLDSLSLALSQISYLVDNLTKKNYRASQQEIQHIVNRHGPEADRHLLRCLFSHVDFSGDGKSSGKDFHQTQFLIQECALLITKPNFISTLSYAIDNPLHYQKSLKPAPHLFAQLSKVLKLSKVQEVIFGLALLNSSSSDLRGFAAQFIKQKLPDLLRSYIDADVSGNQEGGFQDIAIEVLHLLLSHLLFGQKGAFGVGQEQIDAFLKTLRRDFPQERCPVVLAPLLYPEKRDILMDRILPDSGGVAKTMMESSLADFMQEVGYGFCASIEECRNIIVQFGVREVTAAQVARVLGMMARTHSGLTDGIPLQSISAPGSGIWSDGKDKSDGAQAHTWNVEVLIDVLKELNPSLNFKEVTYELDHPGFQIRDSKGLHNVVYGIQRGLGMEVFPVDLIYRPWKHAEGQLSFIQHSLINPEIFCFADYPCHTVATDILKAPPEDDNREIATWKSLDLIESLLRLAEVGQYEQVKQLFSFPIKHCPDMLVLALLQINTSWHTLRHELISTLMPIFLGNHPNSAIILHYAWHGQGQSPSIRQLIMHAMAEWYMRGEQYDQAKLSRILDVAQDLKALSMLLNGTPFAFVIDLAALASRREYLKLDKWLTDKIREHGEPFIQACMTFLKRRCPSILGGLAPEKDQPKSAQLPPETLATMLACLQACAGSVSQELSETILTMVANCSNVMNKARQPPPGVMPKGRPPSASSLDAISPVQIDPLAGMTSLSIGGSAAPHTQSMQGFPPNLGSAFSTPQSPAKAFPPLSTPNQTTAFSGIGGLSSQLPVGGLGTGSLTGIGTGALGLPAVNNDPFVQRKLGTSGLNQPTFQQSKMKPSDLSQVWPEANQHFSKEIDDEANSYFQRIYNHPPHPTMSVDEVLEMLQRFKDSTIKREREVFNCMLRNLFEEYRFFPQYPDKELHITACLFGGIIEKGLVTYMALGLALRYVLEALRKPFGSKMYYFGIAALDRFKNRLKDYPQYCQHLASISHFMQFPHHLQEYIEYGQQSRDPPVKMQGSITTPGSIALAQAQAQAQVPAKAPLAGQVSTMVTTSTTTTVAKTVTVTRPTGVSFKKDVPPSINTTNIDTLLVATDQTERIVEPPENIQEKIAFIFNNLSQSNMTQKVEELKETVKEEFMPWVSQYLVMKRVSIEPNFHSLYSNFLDTLKNPEFNKMVLNETYRNIKVLLTSDKAAANFSDRSLLKNLGHWLGMITLAKNKPILHTDLDVKSLLLEAYVKGQQELLYVVPFVAKVLESSIRSVVFRPPNPWTMAIMNVLAELHQEHDLKLNLKFEIEVLCKNLALDINELKPGNLLKDKDRLKNLDEQLSAPKKDVKQPEELPPITTTTTSTTPATNTTCTATVPPQPQYSYHDINVYSLAGLAPHITLNPTIPLFQAHPQLKQCVRQAIERAVQELVHPVVDRSIKIAMTTCEQIVRKDFALDSEESRMRIAAHHMMRNLTAGMAMITCREPLLMSISTNLKNSFASALRTASPQQREMMDQAAAQLAQDNCELACCFIQKTAVEKAGPEMDKRLATEFELRKHARQEGRRYCDPVVLTYQAERMPEQIRLKVGGVDPKQLAVYEEFARNVPGFLPTNDLSQPTGFLAQPMKQAWATDDVAQIYDKCITELEQHLHAIPPTLAMNPQAQALRSLLEVVVLSRNSRDAIAALGLLQKAVEGLLDATSGADADLLLRYRECHLLVLKALQDGRAYGSPWCNKQITRCLIECRDEYKYNVEAVELLIRNHLVNMQQYDLHLAQSMENGLNYMAVAFAMQLVKILLVDERSVAHVTEADLFHTIETLMRINAHSRGNAPEGLPQLMEVVRSNYEAMIDRAHGGPNFMMHSGISQASEYDDPPGLREKAEYLLREWVNLYHSAAAGRDSTKAFSAFVGQMHQQGILKTDDLITRFFRLCTEMCVEISYRAQAEQQHNPAANPTMIRAKCYHNLDAFVRLIALLVKHSGEATNTVTKINLLNKVLGIVVGVLLQDHDVRQSEFQQLPYHRIFIMLLLELNAPEHVLETINFQTLTAFCNTFHILRPTKAPGFVYAWLELISHRIFIARMLAHTPQQKGWPMYAQLLIDLFKYLAPFLRNVELTKPMQILYKGTLRVLLVLLHDFPEFLCDYHYGFCDVIPPNCIQLRNLILSAFPRNMRLPDPFTPNLKVDMLSEINIAPRILTNFTGVMPPQFKKDLDSYLKTRSPVTFLSDLRSNLQVSNEPGNRYNLQLINALVLYVGTQAIAHIHNKGSTPSMSTITHSAHMDIFQNLAVDLDTEGRYLFLNAIANQLRYPNSHTHYFSCTMLYLFAEANTEAIQEQITRVLLERLIVNRPHPWGLLITFIELIKNPAFKFWNHEFVHCAPEIEKLFQSVAQCCMGQKQAQQVMEGTGAS |
| 1138 | sp|Q61503|5NTD\_MOUSE | MRPAAAKVPKWLLLALSALLPQWPAASAWELTILHTNDVHSRLEQTSDDSTKCLNASLCVGGVARLFTKVQQIRKEEPNVLFLDAGDQYQGTIWFTVYKGLEVAHFMNILGYDAMALGNHEFDNGVEGLIDPLLRNVKFPILSANIKARGPLAHQISGLFLPSKVLSVGGEVVGIVGYTSKETPFLSNPGTNLVFEDEISALQPEVDKLKTLNVNKIIALGHSGFEMDKLIAQKVRGVDIVVGGHSNTFLYTGNPPSKEVPAGKYPFIVTADDGRQVPVVQAYAFGKYLGYLKVEFDDKGNVITSYGNPILLNSSIPEDATIKADINQWRIKLDNYSTQELGRTIVYLDGSTQTCRFRECNMGNLICDAMINNNLRHPDEMFWNHVSMCIVNGGGIRSPIDEKNNGTITWENLAAVLPFGGTFDLVQLKGSTLKKAFEHSVHRYGQSTGEFLQVGGIHVVYDINRKPWNRVVQLEVLCTKCRVPIYEPLEMDKVYKVTLPSYLANGGDGFQMIKDELLKHDSGDQDISVVSEYISKMKVVYPAVEGRIKFSAASHYQGSFPLVILSFWAMILILYQ |
| 1139 | sp|Q96BI3|APH1A\_HUMAN | MGAAVFFGCTFVAFGPAFALFLITVAGDPLRVIILVAGAFFWLVSLLLASVVWFILVHVTDRSDARLQYGLLIFGAAVSVLLQEVFRFAYYKLLKKADEGLASLSEDGRSPISIRQMAYVSGLSFGIISGVFSVINILADALGPGVVGIHGDSPYYFLTSAFLTAAIILLHTFWGVVFFDACERRRYWALGLVVGSHLLTSGLTFLNPWYEASLLPIYAVTVSMGLWAFITAGGSLRSIQRSLLCRRQEDSRVMVYSALRIPPED |
| 1140 | sp|P56377|AP1S2\_HUMAN | MQFMLLFSRQGKLRLQKWYVPLSDKEKKKITRELVQTVLARKPKMCSFLEWRDLKIVYKRYASLYFCCAIEDQDNELITLEIIHRYVELLDKYFGSVCELDIIFNFEKAYFILDEFLLGGEVQETSKKNVLKAIEQADLLQEEAETPRSVLEEIGLT |
| 1141 | sp|P81644|APOA2\_BOVIN | MKLLALTVLLLTICGLEGALVRRQAEESNLQSLVSQYFQTVADYGKDLVEKAKGSELQTQAKAYFEKTQEELTPFFKKAGTDLLNFLSSFIDPKKQPATR |
| 1142 | sp|Q9LS40|ASPG1\_ARATH | MAFPRFLSLLAVVTLSLFLTTTDASSRSLSTPPKTNVLDVVSSLQQTQTILSLDPTRSSLTTTKPESLSDPVFFNSSSPLSLELHSRDTFVASQHKDYKSLTLSRLERDSSRVAGIVAKIRFAVEGVDRSDLKPVYNEDTRYQTEDLTTPVVSGASQGSGEYFSRIGVGTPAKEMYLVLDTGSDVNWIQCEPCADCYQQSDPVFNPTSSSTYKSLTCSAPQCSLLETSACRSNKCLYQVSYGDGSFTVGELATDTVTFGNSGKINNVALGCGHDNEGLFTGAAGLLGLGGGVLSITNQMKATSFSYCLVDRDSGKSSSLDFNSVQLGGGDATAPLLRNKKIDTFYYVGLSGFSVGGEKVVLPDAIFDVDASGSGGVILDCGTAVTRLQTQAYNSLRDAFLKLTVNLKKGSSSISLFDTCYDFSSLSTVKVPTVAFHFTGGKSLDLPAKNYLIPVDDSGTFCFAFAPTSSSLSIIGNVQQQGTRITYDLSKNVIGLSGNKC |
| 1143 | sp|P40753|ANFB\_MOUSE | MDLLKVLSQMILFLLFLYLSPLGGHSYPLGSPSQSPEQFKMQKLLELIREKSEEMAQRQLLKDQGLTKEHPKRVLRSQGSTLRVQQRPQNSKVTHISSCFGHKIDRIGSVSRLGCNALKLL |
| 1144 | sp|Q9TRC7|AOC1\_PIG | MGRGTLALGWAGAALLLLQMLAAAERSPRTPGGKAGVFADLSAQELKAVHSFLWSQKELKLEPSGTLTMAKNSVFLIEMLLPKKQHVLKFLDKGHRRPVREARAVIFFGAQEQPNVTEFAVGPLPTPRYMRDLPPRPGHQVSWASRPISKAEYALLSHKLQEATQPLRQFFRRTTGSSFGDCHEQCLTFTDVAPRGLASGQRRTWFILQRQMPGYFLHPTGLELLVDHGSTNAQDWTVEQVWYNGKFYRSPEELAQKYNDGEVDVVILEDPLAKGKDGESLPEPALFSFYQPRGDFAVTMHGPHVVQPQGPRYSLEGNRVMYGGWSFAFRLRSSSGLQILDVHFGGERIAYEVSVQEAVALYGGHTPAGMQTKYIDVGWGLGSVTHELAPDIDCPETATFLDALHHYDADGPVLYPRALCLFEMPTGVPLRRHFNSNFSGGFNFYAGLKGQVLVLRTTSTVYNYDYIWDFIFYPNGVMEAKMHATGYVHATFYTPEGLRYGTRLHTHLIGNMHTHLVNYRVDLDVAGTTNSFQTLQMELENITNPWSPRHRLVQPTLKQTRYSRERQAAFRFGQPLPKYLLITSPKENPWGHTRSYRLQLHSMADQVLPPGWQEERAVTWARYPLAVTRYRESELSSSSIYNQNDPWDPPVVFEEFLRNNENIEDEDLVAWVTVGFLHIPHSEDIPNTATPGNSVGFLLRPFNFFPEDPALASRDLVVVWPLENGSTYAQRWIPEEDQSCLKPPPFSYNGSYRPV |
| 1145 | sp|P14087|ANXA1\_CAVCU | MSMVSEFLKQAYFIDNQEQDYVKTVKSSKGGPGSAVSPYPSFDASSDVAALHKAITVKGVDEATIIDILTKRNNAQRQQIKAAYLQEKGKPLDEALKKALTGHLEEVVLALLKTPAQLDADELRAAMKGLGTDEDTLIEILVSRKNREIKEINRVYRDELKRDLAKDITSDTSGDFQKALLSLAKGDRCEDLSVNDDLADSDARALYEAGERRKGTDVNVFITILTTRSYSHLRRVFQKYTKYSQHDMNKALDLELKGDIENCLTAIVKCATSTPAFFAEKLHLAMKGAGTRHKALIRIMVSRSEIDMNDIKVYYQKMYGISLCQAILDETKGDYEKILVALCGGQ |
| 1146 | sp|O95782|AP2A1\_HUMAN | MPAVSKGDGMRGLAVFISDIRNCKSKEAEIKRINKELANIRSKFKGDKALDGYSKKKYVCKLLFIFLLGHDIDFGHMEAVNLLSSNKYTEKQIGYLFISVLVNSNSELIRLINNAIKNDLASRNPTFMCLALHCIANVGSREMGEAFAADIPRILVAGDSMDSVKQSAALCLLRLYKASPDLVPMGEWTARVVHLLNDQHMGVVTAAVSLITCLCKKNPDDFKTCVSLAVSRLSRIVSSASTDLQDYTYYFVPAPWLSVKLLRLLQCYPPPEDAAVKGRLVECLETVLNKAQEPPKSKKVQHSNAKNAILFETISLIIHYDSEPNLLVRACNQLGQFLQHRETNLRYLALESMCTLASSEFSHEAVKTHIDTVINALKTERDVSVRQRAADLLYAMCDRSNAKQIVSEMLRYLETADYAIREEIVLKVAILAEKYAVDYSWYVDTILNLIRIAGDYVSEEVWYRVLQIVTNRDDVQGYAAKTVFEALQAPACHENMVKVGGYILGEFGNLIAGDPRSSPPVQFSLLHSKFHLCSVATRALLLSTYIKFINLFPETKATIQGVLRAGSQLRNADVELQQRAVEYLTLSSVASTDVLATVLEEMPPFPERESSILAKLKRKKGPGAGSALDDGRRDPSSNDINGGMEPTPSTVSTPSPSADLLGLRAAPPPAAPPASAGAGNLLVDVFDGPAAQPSLGPTPEEAFLSELEPPAPESPMALLADPAPAADPGPEDIGPPIPEADELLNKFVCKNNGVLFENQLLQIGVKSEFRQNLGRMYLFYGNKTSVQFQNFSPTVVHPGDLQTQLAVQTKRVAAQVDGGAQVQQVLNIECLRDFLTPPLLSVRFRYGGAPQALTLKLPVTINKFFQPTEMAAQDFFQRWKQLSLPQQEAQKIFKANHPMDAEVTKAKLLGFGSALLDNVDPNPENFVGAGIIQTKALQVGCLLRLEPNAQAQMYRLTLRTSKEPVSRHLCELLAQQF |
| 1147 | sp|Q06598|ARR3\_YEAST | MSEDQKSENSVPSKVNMVNRTDILTTIKSLSWLDLMLPFTIILSIIIAVIISVYVPSSRHTFDAEGHPNLMGVSIPLTVGMIVMMIPPICKVSWESIHKYFYRSYIRKQLALSLFLNWVIGPLLMTALAWMALFDYKEYRQGIIMIGVARCIAMVLIWNQIAGGDNDLCVVLVITNSLLQMVLYAPLQIFYCYVISHDHLNTSNRVLFEEVAKSVGVFLGIPLGIGIIIRLGSLTIAGKSNYEKYILRFISPWAMIGFHYTLFVIFISRGYQFIHEIGSAILCFVPLVLYFFIAWFLTFALMRYLSISRSDTQRECSCDQELLLKRVWGRKSCEASFSITMTQCFTMASNNFELSLAIAISLYGNNSKQAIAATFGPLLEVPILLILAIVARILKPYYIWNNRN |
| 1148 | sp|Q80TZ3|AUXI\_MOUSE | MTNPKSGVAESAGLACSRAAAGENRMKDSENKGASSPDMEPSYGGGLFDMVKGGAGRLFSNLKDNLKDTLKDTSSRVIQSVSSYTKGDLDFTYVTSRIIVMSFPVDSVDIGFRNQVDDIRSFLDSRHLDHYTVYNLSPKSYRTAKFHSRVSECSWPIRQAPSLHNLFAVCRNMYNWLLQNPKNVCVVHCLDGRAASSILVGAMFIFCNLYSTPGPAVRLLYAKRPGIGLSPSHRRYLGYMCDLLADKPYRPHFKPLTIKAITVSPVPFFNKQRNGCRPYCDVLIGETKIYSTCTDFERMKEYRVQDGKIFIPLNITVQGDVIVSMYHLRSTIGSRLQAKVTNTQIFQLQFHSGFIPLDTTVLKFTKPELDACDVPEKYPQLFQVTLDIEVQPQDKVIDLTPPWEHYCTKDVNPSILFSSQQEHQDTLALGGQAPADLPPDHPRNLGQGGFFASLCWQDQKSEKSRCEEDHAALVNQESEQSDDELLTLSSPHGNAEGDKPHGAKKPGKKQQEPAAPPPPEEVDLLGLEGSDVSTNFSSLAAPPSNSELLSDLFGGVGATGPAQAGQAGVEDVFHPSGPVSAQSTPRRTATSASASPTLRVGEGATFDPFGAPAKPPGQDLLGSFLNTSSASSDPFLQPTRSPSPTVHASSTPAVNIQPDIAGGWDWHTKPGGFGMGSKSAATSPTGSSHGTPTHQSKPQTLDPFADLGTLGSSSFASKPTTPTGLGGGFPPLSSPQKASPQPMGGGWQQPAGYNWQQTQSKPQSSMPHSSPQNRPNYNVSFSAMPAGQSERGKGSTNLEGKQKAADFEDLLSSQGFNAHKDKKGPRTIAEMRKEEMAKEMDPEKLKILEWIEGKERNIRALLSTMHTVLWAGETKWKPVGMADLVTPEQVKKVYRRAVLVVHPDKATGQPYEQYAKMIFMELNDAWSEFENQGQKPLY |
| 1149 | sp|G5ED29|ATX2\_CAEEL | MSTPTGLPALNGDVLSAINDMIGRVIIINTTDKKRYSGVLGAVSQDFDFGMQCVVEITKENENNLLRTESECRDKMVFHYSDIVDFAYVTQEIKKQHAVSKFVTDRQYHGDTPIEGEELQEWNGGEEDGLGGSIEDDVVVAGGQTAARRSNNHNNGTGWSVNDMFAANEKMNVVSTFKEDLTQYTTVEVVGTDEDRARAERLAREIESNSSSKFMANLENDDDERDLDKITRQEDFENGNGRKRNNNSFNQQQQQRRNPNIAPNGQPVNRRAEGLRGDRRNSGSSSANNSRYGAPAAAQQNYSQNQQQQQGQKGYRRQNEENDWQMAKGKGQNQGHDHSFRQQQKQMLDPRPNNNVKPADDKAQSATTATAAAGGSRVTDLKNWGNEFSIATAPKDQAPAVPAGNSGSAWNRGPPSSLVAKGSSNESTPPPTTNGEEAETKKEEAPSTSVDVAAAPVQNVQNDAEKHQEDDNVSVTSENDSVITSKSSSFKFNINAPEFKPRVAPATPTATTPVQNEYHPQQQPHPAMMAPQQGPPAPGMGMVPPHMGGPQNQGQPPMMMWQQTGQQQQGGGGYPQNHQFPIQHVPMQGVPGQMYGPGAATPVTVAQQPNQQHQVPTSAAGGQNHQLRDGEYREKQPLYMPYGPPQMVPVTSQQFYHSQYQGQMQQAAPYQMKMMPQQAPQGAYQQRYQQPQVYMMPPQGQQQQPRYQGPPPPQQQQQQQPQQQQFSGEQSRPQSHPNSQPTTPGPRGELPKMSGAPQNGNMQAESSSNASHSGSTSSQSGQRSGSPPGAVPPPPPPQQQHQQQQHPPHHAPPHVGAPPPQMMQQQQQHIQQYMVMQGPHQMHPQIPNYYQQPQQVFYPMIMPQQMPMQQNQHPQQSLMGERSDQGFPTSGYFDYRTMPNYQQQQQQQQQQMHRQNSLPQQFQGNQGVNPSGQQSGPPPPPPPSQQGTPRDQQHSQSPP |
| 1150 | sp|Q9LJF3|BRL3\_ARATH | MKQQWQFLILCLLVLFLTVDSRGRRLLSDDVNDTALLTAFKQTSIKSDPTNFLGNWRYGSGRDPCTWRGVSCSSDGRVIGLDLRNGGLTGTLNLNNLTALSNLRSLYLQGNNFSSGDSSSSSGCSLEVLDLSSNSLTDSSIVDYVFSTCLNLVSVNFSHNKLAGKLKSSPSASNKRITTVDLSNNRFSDEIPETFIADFPNSLKHLDLSGNNVTGDFSRLSFGLCENLTVFSLSQNSISGDRFPVSLSNCKLLETLNLSRNSLIGKIPGDDYWGNFQNLRQLSLAHNLYSGEIPPELSLLCRTLEVLDLSGNSLTGQLPQSFTSCGSLQSLNLGNNKLSGDFLSTVVSKLSRITNLYLPFNNISGSVPISLTNCSNLRVLDLSSNEFTGEVPSGFCSLQSSSVLEKLLIANNYLSGTVPVELGKCKSLKTIDLSFNALTGLIPKEIWTLPKLSDLVMWANNLTGGIPESICVDGGNLETLILNNNLLTGSLPESISKCTNMLWISLSSNLLTGEIPVGIGKLEKLAILQLGNNSLTGNIPSELGNCKNLIWLDLNSNNLTGNLPGELASQAGLVMPGSVSGKQFAFVRNEGGTDCRGAGGLVEFEGIRAERLEHFPMVHSCPKTRIYSGMTMYMFSSNGSMIYLDLSYNAVSGSIPLGYGAMGYLQVLNLGHNLLTGTIPDSFGGLKAIGVLDLSHNDLQGFLPGSLGGLSFLSDLDVSNNNLTGPIPFGGQLTTFPLTRYANNSGLCGVPLPPCSSGSRPTRSHAHPKKQSIATGMSAGIVFSFMCIVMLIMALYRARKVQKKEKQREKYIESLPTSGSSSWKLSSVHEPLSINVATFEKPLRKLTFAHLLEATNGFSADSMIGSGGFGDVYKAKLADGSVVAIKKLIQVTGQGDREFMAEMETIGKIKHRNLVPLLGYCKIGEERLLVYEYMKYGSLETVLHEKTKKGGIFLDWSARKKIAIGAARGLAFLHHSCIPHIIHRDMKSSNVLLDQDFVARVSDFGMARLVSALDTHLSVSTLAGTPGYVPPEYYQSFRCTAKGDVYSYGVILLELLSGKKPIDPEEFGEDNNLVGWAKQLYREKRGAEILDPELVTDKSGDVELLHYLKIASQCLDDRPFKRPTMIQVMTMFKELVQVDTENDSLDEFLLKETPLVEESRDKEP |
| 1151 | sp|P41697|BUD6\_YEAST | MKMAVDDPTYGTPKIKRTASSSSSIETTVTKLLMSTKHLLQVLTQWSKGTTSGRLVSDAYVQLGNDFKVVSKFFMHAKVDMSDVGDVPMALRRVLEVTLREPPSDETLNKHLPKIREIIVTLLDKLKVKQAILKNMQQEHRISVKSHHQQNPSFTSNLSLGSEGTREGTPLSSRKSSIVRDQRQSDSVENSYGEKVNSTSTGTPSAQSAEATLTKPRTNIKQNLKSNNAPNASDDDDALSQLKKGTNLQRRASKRYSAYHMAKLTNQSTTEAAAAAGLMTTPSPSMLHLEETVRKSKLYGNNNNDDDRNINSAENKGKSIDDVSKASPLAKTPLPIENVRASPRRLSSVVTTSPDKAMNGTCPVFLRIGDKTKKCHVQLPTTKNALRLLFIERFAYSPGANSFPDIYIMDPQYGVFYELEELNLLDIKEGFVIELKLEENPNNTIKEFIDTVKMEISNSQNDIIRHLKEMSFGSAISGKQTEVLPQPGLEANKHDLVGQNKKDDDKTIKDIQYELGKIKQVHNINRSNINETIFNILRKVDNFKSLSFSAKNSSNRMYMEKSQTELGDLSDTLLSKVDDLQDVIEIMRKDVAERRSQPAKKKLETVSKDLENAQADVLKLQEFIDTEKPHWKKTWEAELDKVCEEQQFLTLQEELILDLKEDLGKALETFDLIKLCCEEQEKNPSRSKSNPILPIMRPGTFNQVREQVMVAVQSLNPDHDSRVEAIDKAEKMWEMERKLKASNEFDDELENFVGNSNLKKSGGFEEVERIRKQKDEANLRAYFGPGFT |
| 1152 | sp|P20290|BTF3\_HUMAN | MRRTGAPAQADSRGRGRARGGCPGGEATLSQPPPRGGTRGQEPQMKETIMNQEKLAKLQAQVRIGGKGTARRKKKVVHRTATADDKKLQFSLKKLGVNNISGIEEVNMFTNQGTVIHFNNPKVQASLAANTFTITGHAETKQLTEMLPSILNQLGADSLTSLRRLAEALPKQSVDGKAPLATGEDDDDEVPDLVENFDEASKNEAN |
| 1153 | sp|P07823|BIP\_MESAU | MKFPMVAAALLLLCAVRAEEEDKKEDVGTVVGIDLGTTYSCVGVFKNGRVEIIANDQGNRITPSYVAFTPEGERLIGDAAKNQLTSNPENTVFDAKRLIGRTWNDPSVQQDIKFLPFKVVEKKTKPYIQVDIGGGQTKTFAPEEISAMVLTKMKETAEAYLGKKVTHAVVTVPAYFNDAQRQATKDAGTIAGLNVMRIINEPTAAAIAYGLDKREGEKNILVFDLGGGTFDVSLLTIDNGVFEVVATNGDTHLGGEDFDQRVMEHFIKLYKKKTGKDVRKDNRAVQKLRREVEKAKRALSSQHQARIEIESFFEGEDFSETLTRAKFEELNMDLFRSTMKPVQKVLEDSDLKKSDIDEIVLVGGSTRIPKIQQLVKEFFNGKEPSRGINPDEAVAYGAAVQAGVLSGDQDTGDLVLLDVCPLTLGIETVGGVMTKLIPRNTVVPTKKSQIFSTASDNQPTVTIKVYEGERPLTKDNHLLGTFDLTGIPPAPRGVPQIEVTFEIDVNGILRVTAEDKGTGNKNKITITNDQNRLTPEEIERMVNDAEKFAEEDKKLKERIDTRNELESYAYSLKNQIGDKEKLGGKLSSEDKETMEKAVEEKIEWLESHQDADIEDFKAKKKELEEIVQPIISKLYGSAGPPPTGEEDTSEKDEL |
| 1154 | sp|Q8NFJ9|BBS1\_HUMAN | MAAASSSDSDACGAESNEANSKWLDAHYDPMANIHTFSACLALADLHGDGEYKLVVGDLGPGGQQPRLKVLKGPLVMTESPLPALPAAAATFLMEQHEPRTPALALASGPCVYVYKNLRPYFKFSLPQLPPNPLEQDLWNQAKEDRIDPLTLKEMLESIRETAEEPLSIQSLRFLQLELSEMEAFVNQHKSNSIKRQTVITTMTTLKKNLADEDAVSCLVLGTENKELLVLDPEAFTILAKMSLPSVPVFLEVSGQFDVEFRLAAACRNGNIYILRRDSKHPKYCIELSAQPVGLIRVHKVLVVGSTQDSLHGFTHKGKKLWTVQMPAAILTMNLLEQHSRGLQAVMAGLANGEVRIYRDKALLNVIHTPDAVTSLCFGRYGREDNTLIMTTRGGGLIIKILKRTAVFVEGGSEVGPPPAQAMKLNVPRKTRLYVDQTLREREAGTAMHRAFQTDLYLLRLRAARAYLQALESSLSPLSTTAREPLKLHAVVQGLGPTFKLTLHLQNTSTTRPVLGLLVCFLYNEALYSLPRAFFKVPLLVPGLNYPLETFVESLSNKGISDIIKVLVLREGQSAPLLSAHVNMPGSEGLAAA |
| 1155 | sp|Q99728|BARD1\_HUMAN | MPDNRQPRNRQPRIRSGNEPRSAPAMEPDGRGAWAHSRAALDRLEKLLRCSRCTNILREPVCLGGCEHIFCSNCVSDCIGTGCPVCYTPAWIQDLKINRQLDSMIQLCSKLRNLLHDNELSDLKEDKPRKSLFNDAGNKKNSIKMWFSPRSKKVRYVVSKASVQTQPAIKKDASAQQDSYEFVSPSPPADVSERAKKASARSGKKQKKKTLAEINQKWNLEAEKEDGEFDSKEESKQKLVSFCSQPSVISSPQINGEIDLLASGSLTESECFGSLTEVSLPLAEQIESPDTKSRNEVVTPEKVCKNYLTSKKSLPLENNGKRGHHNRLSSPISKRCRTSILSTSGDFVKQTVPSENIPLPECSSPPSCKRKVGGTSGRKNSNMSDEFISLSPGTPPSTLSSSSYRRVMSSPSAMKLLPNMAVKRNHRGETLLHIASIKGDIPSVEYLLQNGSDPNVKDHAGWTPLHEACNHGHLKVVELLLQHKALVNTTGYQNDSPLHDAAKNGHVDIVKLLLSYGASRNAVNIFGLRPVDYTDDESMKSLLLLPEKNESSSASHCSVMNTGQRRDGPLVLIGSGLSSEQQKMLSELAVILKAKKYTEFDSTVTHVVVPGDAVQSTLKCMLGILNGCWILKFEWVKACLRRKVCEQEEKYEIPEGPRRSRLNREQLLPKLFDGCYFYLWGTFKHHPKDNLIKLVTAGGGQILSRKPKPDSDVTQTINTVAYHARPDSDQRFCTQYIIYEDLCNYHPERVRQGKVWKAPSSWFIDCVMSFELLPLDS |
| 1156 | sp|Q9Z2E9|BSCL2\_MOUSE | MVNDPPVPALLWAQEVGHVLAGRARRLMLQFGVLFCTILLLLWVSVFLYGSFYYSYMPTVSHLSPVHFHYRTDCDSSTASLCSFPVANVSLAKSGRDRVLMYGQPYRVTLELELPESPVNQDLGMFLVTVSCYTRGGRIISTSSRSVMLHYRSQLLQVLDTLLFSSLLLFGFAEQKQLLEVELYSDYRENSYVPTTGAIIEIHSKRIQMYGAYLRIHAHFTGLRYLLYNFPMTCAFVGVASNFTFLSVIVLFSYMQWVWGAVWPRHRFSLQVNIRQRDNSHHGAPRRISRHQPGQESTQQSDVTEDGESPEDPSGTEGQLSEEEKPEKRPLNGEEEQEPEASDGSWEDAALLTEANPPTSASASALAPETLGSLRQRPTCSSS |
| 1157 | sp|P80723|BASP1\_HUMAN | MGGKLSKKKKGYNVNDEKAKEKDKKAEGAATEEEGTPKESEPQAAAEPAEAKEGKEKPDQDAEGKAEEKEGEKDAAAAKEEAPKAEPEKTEGAAEAKAEPPKAPEQEQAAPGPAAGGEAPKAAEAAAAPAESAAPAAGEEPSKEEGEPKKTEAPAAPAAQETKSDGAPASDSKPGSSEAAPSSKETPAATEAPSSTPKAQGPAASAEEPKPVEAPAANSDQTVTVKE |
| 1158 | sp|O43709|BUD23\_HUMAN | MASRGRRPEHGGPPELFYDETEARKYVRNSRMIDIQTRMAGRALELLYLPENKPCYLLDIGCGTGLSGSYLSDEGHYWVGLDISPAMLDEAVDREIEGDLLLGDMGQGIPFKPGTFDGCISISAVQWLCNANKKSENPAKRLYCFFASLFSVLVRGSRAVLQLYPENSEQLELITTQATKAGFSGGMVVDYPNSAKAKKFYLCLFSGPSTFIPEGLSENQDEVEPRESVFTNERFPLRMSRRGMVRKSRAWVLEKKERHRRQGREVRPDTQYTGRKRKPRF |
| 1159 | sp|Q8N1L9|BATF2\_HUMAN | MHLCGGNGLLTQTDPKEQQRQLKKQKNRAAAQRSRQKHTDKADALHQQHESLEKDNLALRKEIQSLQAELAWWSRTLHVHERLCPMDCASCSAPGLLGCWDQAEGLLGPGPQGQHGCREQLELFQTPGSCYPAQPLSPGPQPHDSPSLLQCPLPSLSLGPAVVAEPPVQLSPSPLLFASHTGSSLQGSSSKLSALQPSLTAQTAPPQPLELEHPTRGKLGSSPDNPSSALGLARLQSREHKPALSAATWQGLVVDPSPHPLLAFPLLSSAQVHF |
| 1160 | sp|Q93LQ8|BGLK\_KLEPN | MKIAAFDIGGTALKMGVMARDGRLLETARQSINDSDGDRILQAMLSWLAAHPSCEGIAISAPGYIDPHSGLITMGGAIRRFDNFAMKSWLETRTGLPVSVENDANCVLLAERWQGKAAEMANFLVLTIGTGIGGAIFCQHQLINGARFRAGEFGYMLTDRPGGRDPRRYSMNENCTLRVLRHRYAQHIGAPLDSVTGELIFDRYDAGDPVCQRLVAEFFNGLGHGLYNLVHIFDPQTIFIGGGVVERPGFLTLLRQHLAWFGIADYLDTVSHGNDAGLIGAVYHFNQLYRSPDDDRH |
| 1161 | sp|O15155|BET1\_HUMAN | MRRAGLGEGVPPGNYGNYGYANSGYSACEEENERLTESLRSKVTAIKSLSIEIGHEVKTQNKLLAEMDSQFDSTTGFLGKTMGKLKILSRGSQTKLLCYMMLFSLFVFFIIYWIIKLR |
| 1162 | sp|Q80ZG6|BBC3\_RAT | MARARQEGSSPEPVEGLARDSPRPFPLGRLMPSAVSCGLCEPGLPAAPAAPALLPAAYLCAPTAPPAVTAALGGPRWPGGHRSRPRGPRPDGPQPSLSPAQQHLESPVPSAPEALAGGPTQAAPGVRVEEEEWAREIGAQLRRMADDLNAQYERRRQEEQHRHRPSPWRVMYNLFMGLLPLPRDPGAPEMEPN |
| 1163 | sp|P22815|BOSS\_DROME | MKVMDALQSGRRKPLPVALLCILVTVFCVLECHGADLTSPTKKSAPLRITKPQPTSQQAKPISITTRAPTTVASTTDDEVSSSVDGQLAPLISSTTEGPSSGTTASLVPEICLNGLQLTVNSADEGTVIRKQEEFVKILEGDVVLSVLTKDPDSALFVINRVNQANLIMADFEIGIRAISIDNASLAENLLIQEVQFLQQCTTYSMGIFVDWELYKQLESVIKDLEYNIWPIPGTRAHLFPKVAHLLHQMPWGEKIASVEIATETLEMYNEFMEAARQEHMCLMHFKSDDNVYIMFGNKLASHFKENGTLFSVPTDRTDDEFLADLPNRAFVLMENEIDLSTAVELDATPTALDEILIGKSVLPSRVLSFAGSIIDLMNWLRGSLSKHCKRGEEHDLYVLESCFNFLNFIEDWRTSEYRQAHDTAEILSLLLMRKLGTAMNFQMYQKKVLTLDKITGESRTELREIASQNFVTNVTTYYHYNRDNHTSLELKTKFGQVFNCQYSAGDNRRYPFLFDGESVMFWRIKMDTWVATGLTAAILGLIATLAILVFIVVRISLGDVFEGNPTTSILLLLSLILVFCSFVPYSIEYVGEQRNSHVTFEDAQTLNTLCAVRVFIMTLVYCFVFSLLLCRAVMLASIGSEGGFLSHVNGYIQAVICAFSVVAQVGMSVQLLVVMHVASETVSCENIYYGRWLWGLLAYDFALLCCVGALIPSIYRSQRNYREGILIVIGSVLIMVIWVAWIALSLFGDEWRDAAIPLGLQASGWAVLVGILIPRTFLIVRGIERSDIAQALPSLTSLAFAQNNQYSSEQSVYECVNPAMRHCSQDEVNHQSPSEIPTLPLRGGGPRRQQFFANLRQANANINPQRPPPRPQQSPSRSSVSSLPPSPDHNKITRF |
| 1164 | sp|P97452|BOP1\_MOUSE | MAGACGKPHMSPASLPGKRRLEPDQELQIQEPPLLSDPDSSLSDSEESVFSGLEDLGSDSSEEDTEGVAGSSGDEDNHRAEETSEELAQAAPLCSRTEEAGALAQDEYEEDSSDEEDIRNTVGNVPLAWYDEFPHVGYDLDGKRIYKPLRTRDELDQFLDKMDDPDFWRTVQDKMTGRDLRLTDEQVALVHRLQRGQFGDSGFNPYEPAVDFFSGDIMIHPVTNRPADKRSFIPSLVEKEKVSRMVHAIKMGWIKPRRPHDPTPSFYDLWAQEDPNAVLGRHKMHVPAPKLALPGHAESYNPPPEYLPTEEERSAWMQQEPVERKLNFLPQKFPSLRTVPAYSRFIQERFERCLDLYLCPRQRKMRVNVDPEDLIPKLPRPRDLQPFPVCQALVYRGHSDLVRCLSVSPGGQWLASGSDDGTLKLWEVATARCMKTVHVGGVVRSIAWNPNPTICLVAAAMDDAVLLLNPALGDRLLVGSTDQLLEAFTPPEEPALQPARWLEVSEEEHQRGLRLRICHSKPVTQVTWHGRGDYLAVVLSSQEHTQVLLHQVSRRRSQSPFRRSHGQVQCVAFHPSRPFLLVASQRSIRIYHLLRQELTKKLMPNCKWVSSMAVHPAGDNIICGSYDSKLVWFDLDLSTKPYKVLRHHKKALRAVAFHPRYPLFASGSDDGSVIVCHGMVYNDLLQNPLLVPVKVLKGHTLTRDLGVLDVAFHPTQPWVFSSGADGTIRLFS |
| 1165 | sp|Q2HJ40|BACE1\_BOVIN | MAQALPWLLLWMGSGVLPAHGSQPGIRLPLRSGLGGAPLGLRLPRETDEESEEPGRRGSFVEMVDNLRGKSGQGYYVEMTLGSPPQTLNILVDTGSSNFAVGAAPHPFLHRYYQRQLSSTYRDLRKGVYVPYTQGKWEGELGTDLVSIPHGPNVTVRANIAAITESDKFFINGSNWEGILGLAYAEIARPDDSLEPFFDSLVKQTHVPNLFSLQLCGAGFPLNQSEALASVGGSMIIGGIDHSLYMGSLWYTPIRREWYYEVIIVRVEINGQDLKMDCKEYNYDKSIVDSGTTNLRLPKKVFEAAVKSIKAASSTEKFPDGFWLGEQLVCWQAGTTPWNIFPVISLYLMGEVTNQSFRITILPQQYLRPVEDVATSQDDCYKFAISQSSTGTVMGAVIMEGFYVVFDRARKRIGFAVSACHVHDEFRTAAVEGPFVTPDMEDCGYNIPQTDESTLMTIAYVMAAICALFMLPLCLMVCQWRCLRCLRHQHDDFADDISLLK |
| 1166 | sp|Q9VLA1|B3G2S\_DROME | MSSARLLESQTSDEDNEDIERRPHQSHSRSCSNNTTPTHPPHPMVRKGGVARRICLIGGALFLLLVALCYLTLSGDTRLGGSEDSEEGSHHGLDSMNFRPLNETVHICSESYEDRRQFMQDKPQSDYVQLPVIYFVTPTYPRREQIPELTRLAHTLLHIPRLHWLVADDQEKCNDYMDTLLYRFGMPFTHMVSPMPSKFRNEKPAPRGVANRRAALQWIRQHNLTNGILYFGDDDNTYDLRLFSEIRKTQRVSMFPVGLIADYGVSGPVVRKGKVVAFLDSWVAGRRWPVDMAGFAVNLEYMAQYPYVNMPYKPGYEEDLFLRSIGLQMNLIEPRGNNCTEILVWHTQTKSKKLGMVRLESKYLDDRSNLGALLHNLKLMGVTSTTESEGRNALISKNGRENPHSKILS |
| 1167 | sp|P23363|BDNF\_RAT | MTILFLTMVISYFGCMKAAPMKEANVHGQGNLAYPAVRTHGTLESVNGPRAGSRGLTTTSLADTFEHVIEELLDEDQKVRPNEENHKDADLYTSRVMLSSQVPLEPPLLFLLEEYKNYLDAANMSMRVRRHSDPARRGELSVCDSISEWVTAADKKTAVDMSGGTVTVLEKVPVSKGQLKQYFYETKCNPMGYTKEGCRGIDKRHWNSQCRTTQSYVRALTMDSKKRIGWRFIRIDTSCVCTLTIKRGR |
| 1168 | sp|P22745|BAM\_DROME | MLNARDVCPEGNDDQQLDHNFKQMEEHLALMVEGNENEDPRKATCEYEDTNEDGATCTSGVLSEIQENFGRLRLCDVTAPLLEFHGLDCLQQIQKRSRHFAFDGSPAKKSRSGGVLVTGPKQKQLQKENVWNRKSKGSASADNIEKLPITIEKLHMIGLHGDCLEHNAVLRLMNLFRSLHDHLTADLGFSRQNSMPSDYLFDMPVKSTMPKSLNVRYQLQVLCTKVERFLVQQRRTLEANRHFDFEKYDECDKLLKGFASYLDNFKLLLKPKMRNRNGNSGSNADKFHTQRMERLLIGLRDWIKAAHLSVHVFNWEMDLEHRYSGAMTESHKSLNERAILLSGAELRAAEARGISAEDLFIAQRYKLGGPIYCVLEQHEFLSALIANPETYFPPSVVAICGPQKLGAVSMEQPSASEEEFEETEEVPSSPPRHTGRVPRFRS |
| 1169 | sp|Q9UQB8|BAIP2\_HUMAN | MSLSRSEEMHRLTENVYKTIMEQFNPSLRNFIAMGKNYEKALAGVTYAAKGYFDALVKMGELASESQGSKELGDVLFQMAEVHRQIQNQLEEMLKSFHNELLTQLEQKVELDSRYLSAALKKYQTEQRSKGDALDKCQAELKKLRKKSQGSKNPQKYSDKELQYIDAISNKQGELENYVSDGYKTALTEERRRFCFLVEKQCAVAKNSAAYHSKGKELLAQKLPLWQQACADPSKIPERAVQLMQQVASNGATLPSALSASKSNLVISDPIPGAKPLPVPPELAPFVGRMSAQESTPIMNGVTGPDGEDYSPWADRKAAQPKSLSPPQSQSKLSDSYSNTLPVRKSVTPKNSYATTENKTLPRSSSMAAGLERNGRMRVKAIFSHAAGDNSTLLSFKEGDLITLLVPEARDGWHYGESEKTKMRGWFPFSYTRVLDSDGSDRLHMSLQQGKSSSTGNLLDKDDLAIPPPDYGAASRAFPAQTASGFKQRPYSVAVPAFSQGLDDYGARSMSRNPFAHVQLKPTVTNDRCDLSAQGPEGREHGDGSARTLAGR |
| 1170 | sp|Q16204|CCDC6\_HUMAN | MADSASESDTDGAGGNSSSSAAMQSSCSSTSGGGGGGGGGGGGGKSGGIVISPFRLEELTNRLASLQQENKVLKIELETYKLKCKALQEENRDLRKASVTIQARAEQEEEFISNTLFKKIQALQKEKETLAVNYEKEEEFLTNELSRKLMQLQHEKAELEQHLEQEQEFQVNKLMKKIKKLENDTISKQLTLEQLRREKIDLENTLEQEQEALVNRLWKRMDKLEAEKRILQEKLDQPVSAPPSPRDISMEIDSPENMMRHIRFLKNEVERLKKQLRAAQLQHSEKMAQYLEEERHMREENLRLQRKLQREMERREALCRQLSESESSLEMDDERYFNEMSAQGLRPRTVSSPIPYTPSPSSSRPISPGLSYASHTVGFTPPTSLTRAGMSYYNSPGLHVQHMGTSHGITRPSPRRSNSPDKFKRPTPPPSPNTQTPVQPPPPPPPPPMQPTVPSAATSQPTPSQHSAHPSSQP |
| 1171 | sp|A8MW95|BECN2\_HUMAN | MSSIRFLCQRCHQALKLSGSSESRSLPAAPAPTSGQAEPGDTREPGVTTREVTDAEEQQDGASSRSPPGDGSVSKGHANIFTLLGELGAMHMLSSIQKAAGDIFDIVSGQAVVDHPLCEECTDSLLEQLDIQLALTEADSQNYQRCLETGELATSEDEAAALRAELRDLELEEARLVQELEDVDRNNARAAADLQAAQAEAAELDQQERQHYRDYSALKRQQLELLDQLGNVENQLQYARVQRDRLKEINCFTATFEIWVEGPLGVINNFRLGRLPTVRVGWNEINTAWGQAALLLLTLANTIGLQFQRYRLIPCGNHSYLKSLTDDRTELPLFCYGGQDVFLNNKYDRAMVAFLDCMQQFKEEAEKGELGLSLPYGIQVETGLMEDVGGRGECYSIRTHLNTQELWTKALKFMLINFKWSLIWVASRYQK |
| 1172 | sp|O95999|BCL10\_HUMAN | MEPTAPSLTEEDLTEVKKDALENLRVYLCEKIIAERHFDHLRAKKILSREDTEEISCRTSSRKRAGKLLDYLQENPKGLDTLVESIRREKTQNFLIQKITDEVLKLRNIKLEHLKGLKCSSCEPFPDGATNNLSRSNSDESNFSEKLRASTVMYHPEGESSTTPFFSTNSSLNLPVLEVGRTENTIFSSTTLPRPGDPGAPPLPPDLQLEEEGTCANSSEMFLPLRSRTVSRQ |
| 1173 | sp|O89093|CCL20\_MOUSE | MACGGKRLLFLALAWVLLAHLCSQAEAASNYDCCLSYIQTPLPSRAIVGFTRQMADEACDINAIIFHTKKRKSVCADPKQNWVKRAVNLLSLRVKKM |
| 1174 | sp|O46550|CAV2\_CANLF | MGLETEKADVQLCMDDDAYSRHSAVDFGDLEQLADSGSDRDPRRLNSHLQVGFEDVIAEPVSTHSFDKVWICSHALFEVSKYVIYKFLTLLLAMPMAFAAGVLFATLSCLHIWIIMPFVKTCLMVLPSVQTIWKSVTDAVIAPLCSSVGRSFSSVSLQVSHD |
| 1175 | sp|O75052|CAPON\_HUMAN | MPSKTKYNLVDDGHDLRIPLHNEDAFQHGICFEAKYVGSLDVPRPNSRVEIVAAMRRIRYEFKAKNIKKKKVSIMVSVDGVKVILKKKKKLLLLQKKEWTWDESKMLVMQDPIYRIFYVSHDSQDLKIFSYIARDGASNIFRCNVFKSKKKSQAMRIVRTVGQAFEVCHKLSLQHTQQNADGQEDGESERNSNSSGDPGRQLTGAERASTATAEETDIDAVEVPLPGNDVLEFSRGVTDLDAVGKEGGSHTGSKVSHPQEPMLTASPRMLLPSSSSKPPGLGTETPLSTHHQMQLLQQLLQQQQQQTQVAVAQVHLLKDQLAAEAAARLEAQARVHQLLLQNKDMLQHISLLVKQVQELELKLSGQNAMGSQDSLLEITFRSGALPVLCDPTTPKPEDLHSPPLGAGLADFAHPAGSPLGRRDCLVKLECFRFLPPEDTPPPAQGEALLGGLELIKFRESGIASEYESNTDESEERDSWSQEELPRLLNVLQRQELGDGLDDEIAV |
| 1176 | sp|Q9Y698|CCG2\_HUMAN | MGLFDRGVQMLLTTVGAFAAFSLMTIAVGTDYWLYSRGVCKTKSVSENETSKKNEEVMTHSGLWRTCCLEGNFKGLCKQIDHFPEDADYEADTAEYFLRAVRASSIFPILSVILLFMGGLCIAASEFYKTRHNIILSAGIFFVSAGLSNIIGIIVYISANAGDPSKSDSKKNSYSYGWSFYFGALSFIIAEMVGVLAVHMFIDRHKQLRATARATDYLQASAITRIPSYRYRYQRRSRSSSRSTEPSHSRDASPVGIKGFNTLPSTEISMYTLSRDPLKAATTPTATYNSDRDNSFLQVHNCIQKENKDSLHSNTANRRTTPV |
| 1177 | sp|Q86UW7|CAPS2\_HUMAN | MLDPSSSEEESDEGLEEESRDVLVAAGSSQRAPPAPTREGRRDAPGRAGGGGAARSVSPSPSVLSEGRDEPQRQLDDEQERRIRLQLYVFVVRCIAYPFNAKQPTDMARRQQKLNKQQLQLLKERFQAFLNGETQIVADEAFCNAVRSYYEVFLKSDRVARMVQSGGCSANDFREVFKKNIEKRVRSLPEIDGLSKETVLSSWIAKYDAIYRGEEDLCKQPNRMALSAVSELILSKEQLYEMFQQILGIKKLEHQLLYNACQLDNADEQAAQIRRELDGRLQLADKMAKERKFPKFIAKDMENMYIEELRSSVNLLMANLESLPVSKGGPEFKLQKLKRSQNSAFLDIGDENEIQLSKSDVVLSFTLEIVIMEVQGLKSVAPNRIVYCTMEVEGEKLQTDQAEASRPQWGTQGDFTTTHPRPVVKVKLFTESTGVLALEDKELGRVILYPTSNSSKSAELHRMVVPKNSQDSDLKIKLAVRMDKPAHMKHSGYLYALGQKVWKRWKKRYFVLVQVSQYTFAMCSYREKKSEPQELMQLEGYTVDYTDPHPGLQGGCMFFNAVKEGDTVIFASDDEQDRILWVQAMYRATGQSYKPVPAIQTQKLNPKGGTLHADAQLSGKDADRFQKHGMDEFISANPCKLDHAFLFRILQRQTLDHRLNDSYSCLGWFSPGQVFVLDEYCARYGVRGCHRHLCYLAELMEHSENGAVIDPTLLHYSFAFCASHVHGNRPDGIGTVSVEEKERFEEIKERLSSLLENQISHFRYCFPFGRPEGALKATLSLLERVLMKDIATPIPAEEVKKVVRKCLEKAALINYTRLTEYAKIEETMNQASPARKLEEILHLAELCIEVLQQNEEHHAEGREAFAWWPDLLAEHAEKFWALFTVDMDTALEAQPQDSWDSFPLFQLLNNFLRNDTLLCNGKFHKHLQEIFVPLVVRYVDLMESSIAQSIHRGFEQETWQPVKNIANSLPNVALPKVPSLPLNLPQIPNISTASWMPSLYESTNGSATSEDLFWKLDALQMFVFDLHWPEQEFAHHLEQRLKLMASDMLEACVKRTRTAFELKLQKASKTTDLRIPASVCTMFNVLVDAKKQSTKLCALDGGQEQQYHSKIDDLIDNSVKEIISLLVSKFVSVLEGVLSKLSRYDEGTFFSSILSFTVKAAAKYVDVPKPGMDLADTYIMFVRQNQDILREKVNEEMYIEKLFDQWYSSSMKVICVWLTDRLDLQLHIYQLKTLIKIVKKTYRDFRLQGVLEGTLNSKTYDTVHRRLTVEEATASVSEGGGLQGITMKDSDEEEEG |
| 1178 | sp|Q2TAC2|CCD57\_HUMAN | MLPLGSEPALNELLLRKEEEWRALQAHRTQLQEAALQDTRSQLEEAQGKLRCLQEDFVYNLQVLEERDLELERYDAAFAQAREWEEARRAEVSELKIEAAKLRQALAREARKVEELQQQQQLAFQEHRLELERVHSDKNGEIDHHREQYENLKWTLERKLEELDGELALQRQELLLEFESKMRKREHEFRLQADNMSNTALSRELKVKLLHKELEALKEAGAKAAESLQRAEATNAELERKLQSRAGELQDLEAMSRARVKDLEDKLHSVQLTRKKEEETFKRKHEELDRLAREKDAVLVAVKGAHVEQLQELQTRVLELQAHCETLEAQLRRAEWRQADTAKEKDAAIDQLREDASTVKSAWDAQIAQLSKEMVSRDLQIQTLQEEEVKLKAQVARSQQDIERYKQQLSLAVERERSLERDQVQLGLDWQRRCDDIERDQIQKSEALIQGLSMAKSQVAAKLQETEQALQEQEVVLKAVTLERDQAVQALRMHGLPRPGAQMLLRQHEEEISKDFPSSEIQRLREQNTSLRNAIAQMRKEMEALSHQIPPPIQTAAESTDANQPDPEAGGDAATPDYVLALEAEIRTLKHKFKTLEKHLEDVLDPLKMSSPHAESQPSVRTSTETTGGSAQAGQAGGSVQAGQAGGSVQAGPVSSGLALRKLGDRVQLLNLLVTRLRQKVLREPLEPAALQRELPREVDQVHLEVLELRKQVAELGKHLRIAQHGGAEPSGRKQPPASDAVALGREDAKSAEDEAPSRHLGKHQPRSAQVGSRLDALQGPKTQHSIHTVTCKSPRQKEDRSPKPPQAPQHPEEHGRQSHSSSSFASGTLQDMWRLLDLGSSPSGVTSQGDSTPELPAPPAADRRPVKMQAGIATPGMKTAAQAKAKTTGASRSHPAKAKGCQRPPKIRNYNIMD |
| 1179 | sp|P55773|CCL23\_HUMAN | MKVSVAALSCLMLVTALGSQARVTKDAETEFMMSKLPLENPVLLDRFHATSADCCISYTPRSIPCSLLESYFETNSECSKPGVIFLTKKGRRFCANPSDKQVQVCVRMLKLDTRIKTRKN |
| 1180 | sp|O15444|CCL25\_HUMAN | MNLWLLACLVAGFLGAWAPAVHTQGVFEDCCLAYHYPIGWAVLRRAWTYRIQEVSGSCNLPAAIFYLPKRHRKVCGNPKSREVQRAMKLLDARNKVFAKLHHNTQTFQAGPHAVKKLSSGNSKLSSSKFSNPISSSKRNVSLLISANSGL |
| 1181 | sp|Q92177|CAN3\_CHICK | MPSAINAAVAQQTAAGSVPSTTSTTTEGTGGGTGGIYSAIISRNQPIIKVKEKTYEELHKKCLEENILYEDPDFPPNETSLFYSQKVPIKFEWKRPREICENPRFIIGGANRTDICQGELGDCWFLAAIACLTLNKKLLCRVIPHDQSFIQNYAGIFHFQFWRYGDWVDVIIDDCLPTYNNQLVFTKSSQRNEFWSALLEKAYAKLHGSYEALKGGNTTEAMEDFTGGVIEFYEIKDAPKDIYKIMKHAIARGSLMASSIDDNLGFHYGAAPRSDIGELIARMVKNLENAQMTYSTVDYQGTDERPAWTIMPMQYETRMSCGLVKGHAYSVTAVEETTYKGEKMRLVRLRNPWGQVEWNGPWSDKSEEWNFIDEEEKIRLQHKIAEDGEFWISLEDFMRHFTKLEICNLTPDTLEADKLQTWTVSVNEGRWVRGCSAGGCRNYPDTFWTNPQYRLKLLEEDDDPEDEEVICSFLVALMQKNRRKERKLGANLYTIGFAIYEVPKEMHGTKHHLQKDFFLYNASKARSKTYINMREISERFRLPPSEYVIIPSTYEPHQEGEFILRVFSEKRSLSEEVENMIEADRPSKKKKGKPIIFVSDRANSNKELTTDEDAGKDGEKTHVDEKKRSSAKAREKSEEETQFRNIFRQIAGDDMEICREELRNVLNNVVKKHKDLKTEGFELESSRSMIALMDTDGSGKINFDEFRHLWDKIKSWQKIFKHYDADHSGTINSYEMRNAVKDAGFRLNNQLYDIITMRYADKNMNIDFDSFICCFVRLDAMFRAFHAFDKDGDGIIKLNVLEWLQLTMYA |
| 1182 | sp|Q99JA0|CALCA\_MOUSE | MGFLKFSPFLVVSILLLYQACSLQAVPLRSILESSPGMATLSEEEVRLLAALVQDYMQMKARELEQEEEQEAEGSSVTAQKRSCNTATCVTHRLAGLLSRSGGVVKDNFVPTNVGSEAFGRRRRDLQA |
| 1183 | sp|P03615|CAPSD\_BPQBE | MAKLETVTLGNIGKDGKQTLVLNPRGVNPTNGVASLSQAGAVPALEKRVTVSVSQPSRNRKNYKVQVKIQNPTACTANGSCDPSVTRQAYADVTFSFTQYSTDEERAFVRTELAALLASPLLIDAIDQLNPAY |
| 1184 | sp|Q8SQA6|CCL3\_BOVIN | MKVAVAALAVLLCAMALCSQVFSAPFGADTPTACCFSYVARQLSRKIVADYFETSSQCSKPGVIFQTKKGRQVCANPTEDWVQEYITDLELNA |
| 1185 | sp|Q9M066|C90C1\_ARATH | MQPPASAGLFRSPENLPWPYNYMDYLVAGFLVLTAGILLRPWLWLRLRNSKTKDGDEEEDNEEKKKGMIPNGSLGWPVIGETLNFIACGYSSRPVTFMDKRKSLYGKVFKTNIIGTPIIISTDAEVNKVVLQNHGNTFVPAYPKSITELLGENSILSINGPHQKRLHTLIGAFLRSPHLKDRITRDIEASVVLTLASWAQLPLVHVQDEIKKMTFEILVKVLMSTSPGEDMNILKLEFEEFIKGLICIPIKFPGTRLYKSLKAKERLIKMVKKVVEERQVAMTTTSPANDVVDVLLRDGGDSEKQSQPSDFVSGKIVEMMIPGEETMPTAMTLAVKFLSDNPVALAKLVEENMEMKRRKLELGEEYKWTDYMSLSFTQNVINETLRMANIINGVWRKALKDVEIKGYLIPKGWCVLASFISVHMDEDIYDNPYQFDPWRWDRINGSANSSICFTPFGGGQRLCPGLELSKLEISIFLHHLVTRYSWTAEEDEIVSFPTVKMKRRLPIRVATVDDSASPISLEDH |
| 1186 | sp|Q9PZT0|CAPSD\_PAVHV | MSKESGKWWESDDKFAKAVYQQFVEFYEKVTGTDLELIQILKDHYNISLDNPLENPSSLFDLVARIKNNLKNSPDLYSHHFQSHGQLSDHPHALSSSSSHAEPRGENAVLSSEDLHKPGQVSVQLPGTNYVGPGNELQAGPPQSAVDSAARIHDFRYSQLAKLGINPYTHWTVADEELLKNIKNETGFQAQVVKDYFTLKGAAAPVAHFQGSLPEVPAYNASEKYPSMTSVNSAEASTGAGGGGSNPVKSMWSEGATFSANSVTCTFSRQFLIPYDPEHHYKVFSPAASSCHNASGKEAKVCTISPIMGYSTPWRYLDFNALNLFFSPLEFQHLIENYGSIAPDALTVTISEIAVKDVTDKTGGGVQVTDSTTGRLSMLVDHEYKYPYVLGQGQDTLAPELPIWVYFPPQYAYLTVGDVNTQGISGDSKKLASEESAFYVLEHSSFQLLGTGGTATMSYKFPPVPPENLEGCSQHFYEMYNPLYGSRLGVPDTLGGDPKFRSLTHEDHAIQPQNFMPGPLVNSVSTKEGDSSNTGAGKALTGLSTGTSQNTRISLRPGPVSQPYHHWDTDKYVPGINAISHGQTTYGNAEDKEYQQGVGRFPNEKEQLKQLQGLNMHTYFPNKGTQQYTDQIERPLMVGSVWNRRALHYESQLWSKIPNLDDSFKTQFAALGGWGLHQPPPQIFLKILPQSGPIGGIKSMGITTLVQYAVGIMTVTMTFKLGPRKATGRWNPQPGVYPPHAAGHLPYVLYDPTATDAKQHHRHGYEKPEELWTAKSRVHPL |
| 1187 | sp|Q9BXJ3|C1QT4\_HUMAN | MLPLLLGLLGPAACWALGPTPGPGSSELRSAFSAARTTPLEGTSEMAVTFDKVYVNIGGDFDVATGQFRCRVPGAYFFSFTAGKAPHKSLSVMLVRNRDEVQALAFDEQRRPGARRAASQSAMLQLDYGDTVWLRLHGAPQYALGAPGATFSGYLVYADADADAPARGPPAPPEPRSAFSAARTRSLVGSDAGPGPRHQPLAFDTEFVNIGGDFDAAAGVFRCRLPGAYFFSFTLGKLPRKTLSVKLMKNRDEVQAMIYDDGASRRREMQSQSVMLALRRGDAVWLLSHDHDGYGAYSNHGKYITFSGFLVYPDLAPAAPPGLGASELL |
| 1188 | sp|P22682|CBL\_MOUSE | MAGNVKKSSGAGGGGSGGSGAGGLIGLMKDAFQPHHHHHHLSPHPPCTVDKKMVEKCWKLMDKVVRLCQNPKLALKNSPPYILDLLPDTYQHLRTVLSRYEGKMETLGENEYFRVFMENLMKKTKQTISLFKEGKERMYEENSQPRRNLTKLSLIFSHMLAELKGIFPSGLFQGDTFRITKADAAEFWRKAFGEKTIVPWKSFRQALHEVHPISSGLEAMALKSTIDLTCNDYISVFEFDIFTRLFQPWSSLLRNWNSLAVTHPGYMAFLTYDEVKARLQKFIHKPGSYIFRLSCTRLGQWAIGYVTADGNILQTIPHNKPLFQALIDGFREGFYLFPDGRNQNPDLTGLCEPTPQDHIKVTQEQYELYCEMGSTFQLCKICAENDKDVKIEPCGHLMCTSCLTSWQESEGQGCPFCRCEIKGTEPIVVDPFDPRGSGSLLRQGAEGAPSPNYDDDDDERADDSLFMMKELAGAKVERPSSPFSMAPQASLPPVPPRLDLLQQRAPVPASTSVLGTASKAASGSLHKDKPLPIPPTLRDLPPPPPPDRPYSVGAETRPQRRPLPCTPGDCPSRDKLPPVPSSRPGDSWLSRPIPKVPVATPNPGDPWNGRELTNRHSLPFSLPSQMEPRADVPRLGSTFSLDTSMTMNSSPVAGPESEHPKIKPSSSANAIYSLAARPLPMPKLPPGEQGESEEDTEYMTPTSRPVGVQKPEPKRPLEATQSSRACDCDQQIDSCTYEAMYNIQSQALSVAENSASGEGNLATAHTSTGPEESENEDDGYDVPKPPVPAVLARRTLSDISNASSSFGWLSLDGDPTNFNEGSQVPERPPKPFPRRINSERKASSYQQGGGATANPVATAPSPQLSSEIERLMSQGYSYQDIQKALVIAHNNIEMAKNILREFVSISSPAHVAT |
| 1189 | sp|Q6DGB6|CC103\_DANRE | MENSDVINFSCLEKELHSALQADRKYQRENDAKFRALNQKVASYEEFRDIVLASHLKPLDRNDISGSPRKQPWNPVACRTNYVCASSEQVQPQLSEVQPRSASEFIRDWRRFAGCSFEKYSLLVSLGGEALQKIFSTEIGLGLLGEFLLILSQCLKSGDEDRVTGVLDGLSKTGRFSINLSLLSQAEQEACEELFNKLKVAAGECHPYKDNSNTSVVCEAGLTHMEDNKTDITTTLKELAGKYGTEK |
| 1190 | sp|P07293|CAC1S\_RABIT | MEPSSPQDEGLRKKQPKKPLPEVLPRPPRALFCLTLQNPLRKACISIVEWKPFETIILLTIFANCVALAVYLPMPEDDNNSLNLGLEKLEYFFLTVFSIEAAMKIIAYGFLFHQDAYLRSGWNVLDFIIVFLGVFTAILEQVNVIQSNTAPMSSKGAGLDVKALRAFRVLRPLRLVSGVPSLQVVLNSIFKAMLPLFHIALLVLFMVIIYAIIGLELFKGKMHKTCYYIGTDIVATVENEKPSPCARTGSGRPCTINGSECRGGWPGPNHGITHFDNFGFSMLTVYQCITMEGWTDVLYWVNDAIGNEWPWIYFVTLILLGSFFILNLVLGVLSGEFTKEREKAKSRGTFQKLREKQQLEEDLRGYMSWITQGEVMDVEDLREGKLSLEEGGSDTESLYEIEGLNKIIQFIRHWRQWNRVFRWKCHDLVKSRVFYWLVILIVALNTLSIASEHHNQPLWLTHLQDIANRVLLSLFTIEMLLKMYGLGLRQYFMSIFNRFDCFVVCSGILELLLVESGAMTPLGISVLRCIRLLRLFKITKYWTSLSNLVASLLNSIRSIASLLLLLFLFIIIFALLGMQLFGGRYDFEDTEVRRSNFDNFPQALISVFQVLTGEDWNSVMYNGIMAYGGPSYPGVLVCIYFIILFVCGNYILLNVFLAIAVDNLAEAESLTSAQKAKAEERKRRKMSRGLPDKTEEEKSVMAKKLEQKPKGEGIPTTAKLKVDEFESNVNEVKDPYPSADFPGDDEEDEPEIPVSPRPRPLAELQLKEKAVPIPEASSFFIFSPTNKVRVLCHRIVNATWFTNFILLFILLSSAALAAEDPIRAESVRNQILGYFDIAFTSVFTVEIVLKMTTYGAFLHKGSFCRNYFNILDLLVVAVSLISMGLESSTISVVKILRVLRVLRPLRAINRAKGLKHVVQCVFVAIRTIGNIVLVTTLLQFMFACIGVQLFKGKFFSCNDLSKMTEEECRGYYYVYKDGDPTQMELRPRQWIHNDFHFDNVLSAMMSLFTVSTFEGWPQLLYRAIDSNEEDMGPVYNNRVEMAIFFIIYIILIAFFMMNIFVGFVIVTFQEQGETEYKNCELDKNQRQCVQYALKARPLRCYIPKNPYQYQVWYVVTSSYFEYLMFALIMLNTICLGMQHYHQSEEMNHISDILNVAFTIIFTLEMILKLLAFKARGYFGDPWNVFDFLIVIGSIIDVILSEIDTFLASSGGLYCLGGGCGNVDPDESARISSAFFRLFRVMRLIKLLSRAEGVRTLLWTFIKSFQALPYVALLIVMLFFIYAVIGMQMFGKIALVDGTQINRNNNFQTFPQAVLLLFRCATGEAWQEILLACSYGKLCDPESDYAPGEEYTCGTNFAYYYFISFYMLCAFLIINLFVAVIMDNFDYLTRDWSILGPHHLDEFKAIWAEYDPEAKGRIKHLDVVTLLRRIQPPLGFGKFCPHRVACKRLVGMNMPLNSDGTVTFNATLFALVRTALKIKTEGNFEQANEELRAIIKKIWKRTSMKLLDQVIPPIGDDEVTVGKFYATFLIQEHFRKFMKRQEEYYGYRPKKDTVQIQAGLRTIEEEAAPEIRRTISGDLTAEEELERAMVEAAMEERIFRRTGGLFGQVDTFLERTNSLPPVMANQRPLQFAEIEMEELESPVFLEDFPQDARTNPLARANTNNANANVAYGNSNHSNNQMFSSVHCEREFPGEAETPAAGRGALSHSHRALGPHSKPCAGKLNGQLVQPGMPINQAPPAPCQQPSTDPPERGQRRTSLTGSLQDEAPQRRSSEGSTPRRPAPATALLIQEALVRGGLDTLAADAGFVTATSQALADACQMEPEEVEVAATELLKARESVQGMASVPGSLSRRSSLGSLDQVQGSQETLIPPRP |
| 1191 | sp|P48052|CBPA2\_HUMAN | MAMRLILFFGALFGHIYCLETFVGDQVLEIVPSNEEQIKNLLQLEAQEHLQLDFWKSPTTPGETAHVRVPFVNVQAVKVFLESQGIAYSIMIEDVQVLLDKENEEMLFNRRRERSGNFNFGAYHTLEEISQEMDNLVAEHPGLVSKVNIGSSFENRPMNVLKFSTGGDKPAIWLDAGIHAREWVTQATALWTANKIVSDYGKDPSITSILDALDIFLLPVTNPDGYVFSQTKNRMWRKTRSKVSGSLCVGVDPNRNWDAGFGGPGASSNPCSDSYHGPSANSEVEVKSIVDFIKSHGKVKAFITLHSYSQLLMFPYGYKCTKLDDFDELSEVAQKAAQSLRSLHGTKYKVGPICSVIYQASGGSIDWSYDYGIKYSFAFELRDTGRYGFLLPARQILPTAEETWLGLKAIMEHVRDHPY |
| 1192 | sp|Q9QXV1|CBX8\_MOUSE | MELSAVGERVFAAEALLKRRIRKGRMEYLVKWKGWSQKYSTWEPEENILDARLLAAFEEREREMELYGPKKRGPKPKTFLLKAQAKAKAKTYEFRSDSTRGIRIPYPGRSPQDLASTSRAREGLRNTGLPPPGSSTSTCRADPPRDRDRERDRGTSRVDDKPSSPGDSSKKRGPKPRKEPLDPSQRPLGEPSAGLGEYLKGRKLDETSSGTGKFPAGHSVIQLARRQDSDLVQYGVTSPSSAEASSKLAVDTFPARVIKHRAAFLEAKGQGALDPGGARVRHSSGTPASVGSLYRDMGAQGGRPSLIARIPVARILGDPEEESWSPSLTNLEKVVVTDVTSNFLTVTIKESNTDQGFFKEKR |
| 1193 | sp|P05933|CALM\_SCHPO | MTTRNLTDEQIAEFREAFSLFDRDQDGNITSNELGVVMRSLGQSPTAAELQDMINEVDADGNGTIDFTEFLTMMARKMKDTDNEEEVREAFKVFDKDGNGYITVEELTHVLTSLGERLSQEEVADMIREADTDGDGVINYEEFSRVISSK |
| 1194 | sp|P45956|CAS2\_ECOLI | MSMLVVVTENVPPRLRGRLAIWLLEVRAGVYVGDVSAKIREMIWEQIAGLAEEGNVVMAWATNTETGFEFQTFGLNRRTPVDLDGLRLVSFLPV |
| 1195 | sp|Q8IRY7|CASP8\_DROME | MAGSNLLIHLDTIDQNDLIYVERDMNFAQKVGLCFLLYGDDHSDATYILQKLLAMTRSDFPQSDLLIKFAKSRPETWRRHLVEALCIIGARKVLRRLGFCWQELRMHYLPHIAGITLHVHPLLKSLYRMCEELSLVQSGRLLLDVREKVESQQAGDPLRFYDPAYLEIFLLDWLTRRSIKLGDINAAGSDVQLLVGHLKSNGLQAQANLLKDTIISNAPEPDAAGTAAMAVKQEIESDNQQSYCSTQIDALKLTRENAGIALIINQQKFHRNVSRDNMKFLSPDPLRRRDGTDVDKERLIEVFSSMGYNVEAYDNVDHMGIIERIRSACDRSLVRDSLVVFILSHGFEEAVYASNSIAMKITDIEDLLCSYDTLYYKPKLLIIQACQEKLVHKKKPNELFRIDVTTVSPDQHIDMLRAMSTVNGYAALRHTQTGSWFIGSLCDAIDRRSASEHIADILTIVTNEVSKKRGSNDESMVPNVKSTFRQHVYFPPRL |
| 1196 | sp|Q86YS7|C2CD5\_HUMAN | MPGKLKVKIVAGRHLPVMDRASDLTDAFVEVKFGNTTFKTDVYLKSLNPQWNSEWFKFEVDDEDLQDEPLQITVLDHDTYSANDAIGKVYIDIDPLLYSEAATVISGWFPIYDTIHGIRGEINVVVKVDLFNDLNRFRQSSCGVKFFCTTSIPKCYRAVIIHGFVEELVVNEDPEYQWIDRIRTPRASNEARQRLISLMSGELQRKIGLKVLEMRGNAVVGYLQCFDLEGESGLVVRAIGTACTLDKLSSPAAFLPACNSPSKEMKEIPFNEDPNPNTHSSGPSTPLKNQTYSFSPSKSYSRQSSSSDTDLSLTPKTGMGSGSAGKEGGPFKALLRQQTQSALEQREFPFFTLTAFPPGFLVHVGGVVSARSVKLLDRIHNPDEPETRDAWWAEIRQEIKSHAKALGCHAVVGYSESTSICEEVCILSASGTAAVLNPRFLQDGTVEGCLEQRLEENLPTRCGFCHIPYDELNMPFPAHLTYCYNCRKQKVPDVLFTTIDLPTDATVIGKGCLIQARLCRLKKKAQAEANATAISNLLPFMEYEVHTQLMNKLKLKGMNALFGLRIQITVGENMLMGLASATGVYLAALPTPGGIQIAGKTPNDGSYEQHISHMQKKINDTIAKNKELYEINPPEISEEIIGSPIPEPRQRSRLLRSQSESSDEVTELDLSHGKKDAFVLEIDDTDAMEDVHSLLTDVPPPSGFYSCNTEIMPGINNWTSEIQMFTSVRVIRLSSLNLTNQALNKNFNDLCENLLKSLYFKLRSMIPCCLCHVNFTVSLPEDELIQVTVTAVAITFDKNQALQTTKTPVEKSLQRASTDNEELLQFPLELCSDSLPSHPFPPAKAMTVEKASPVGDGNFRNRSAPPCANSTVGVVKMTPLSFIPGAKITKYLGIINMFFIRETTSLREEGGVSGFLHAFIAEVFAMVRAHVAALGGNAVVSYIMKQCVFMENPNKNQAQCLINVSGDAVVFVRESDLEVVSSQQPTTNCQSSCTEGEVTT |
| 1197 | sp|Q8IVL8|CBPO\_HUMAN | MKPLLETLYLLGMLVPGGLGYDRSLAQHRQEIVDKSVSPWSLETYSYNIYHPMGEIYEWMREISEKYKEVVTQHFLGVTYETHPMYYLKISQPSGNPKKIIWMDCGIHAREWIAPAFCQWFVKEILQNHKDNSSIRKLLRNLDFYVLPVLNIDGYIYTWTTDRLWRKSRSPHNNGTCFGTDLNRNFNASWCSIGASRNCQDQTFCGTGPVSEPETKAVASFIESKKDDILCFLTMHSYGQLILTPYGYTKNKSSNHPEMIQVGQKAANALKAKYGTNYRVGSSADILYASSGSSRDWARDIGIPFSYTFELRDSGTYGFVLPEAQIQPTCEETMEAVLSVLDDVYAKHWHSDSAGRVTSATMLLGLLVSCMSLL |
| 1198 | sp|Q9R1W5|CALRL\_MOUSE | MDKKHILCFLVLLPLNMALISAESEEGVNQTDLGVTRNKIMTAQYECYQKIMQDPIQQAEGLYCNRTWDGWLCWNDVAAGTESMQYCPDYFQDFDPSEKVTKICDQDGHWFRHPDSNRTWTNYTLCNNSTHEKVKTALNLFYLTIIGHGLSIASLIISLIIFFYFKSLSCQRITLHKNLFFSFICNSIVTIIHLTAVANNQALVATNPVSCKVSQFIHLYLMGCNYFWMLCEGVYLHTLIVVAVFAEKQHLMWYYFLGWGFPLLPACIHAIARSLYYNDNCWISSDTHLLYIIHGPICAALLVNLFFLLNIVRVLITKLKVTHQVESNLYMKAVRATLILVPLLGIEFVLFPWRPEGKVAEEVYDYVMHILMHFQGLLVATIFCFFNGEVQAILRRNWNQYKIQFGNGFSHSDALRSASYTVSTISDMQGYSHDCPTEHLNGKSIQDIENVALKSENMYDLVM |
| 1199 | sp|P07711|CATL1\_HUMAN | MNPTLILAAFCLGIASATLTFDHSLEAQWTKWKAMHNRLYGMNEEGWRRAVWEKNMKMIELHNQEYREGKHSFTMAMNAFGDMTSEEFRQVMNGFQNRKPRKGKVFQEPLFYEAPRSVDWREKGYVTPVKNQGQCGSCWAFSATGALEGQMFRKTGRLISLSEQNLVDCSGPQGNEGCNGGLMDYAFQYVQDNGGLDSEESYPYEATEESCKYNPKYSVANDTGFVDIPKQEKALMKAVATVGPISVAIDAGHESFLFYKEGIYFEPDCSSEDMDHGVLVVGYGFESTESDNNKYWLVKNSWGEEWGMGGYVKMAKDRRNHCGIASAASYPTV |
| 1200 | sp|Q6EDY6|CARL1\_MOUSE | MTDESSDVPRELMESIKDVIGRKIKISVKKKVKLEVKGDRVENKVLVLTSCRAFLLSARIPSKLELTFSYLEIHGVICHKPAQMVVETEKCNMSMKMVSPEDVSEVLAHIGTCLRRIFPGLSPLRIMKKVSMEPSERLASLQALWDSQTLAEPGPCGGFSQMYACVCDWLGFSYKEEVQWDVDTIYLTQDTRELNLQDFSHLEHRDLIPIIAALEYNQWFTKLSSKDLKLSTDVCEQILRVVSRSNRLEELVLENAGLRIDFAQKLAGALAHNPNSGLHTINLAGNSLEDRGVSSLSIQFAKLPKGLKHLNLSKTSLSPKGVNSLCQSLSANPLTASTLTHLDLSGNALRGDDLSHMYNFLAQPNTIVHLDLSNTECSLEMVCSALLRGCLQCLAVLNLSRSVFSHRKGKEVPPSFKQFFSSSLALIQINLSGTKLSPEPLKALLLGLACNHSLKGVSLDLSNCELGHCLRSGGAQVLEGCIAEIHNITSLDISDNGLESDLSTLIVWLSKNRSIQHLALGKNFNNMKSKNLTPVLDNLVQMIQDEDSPLQSLSLADSKLKAEVTIIINALGSNTSLTKVDISGNGMGDMGAKMLAKALQINTKLRTVIWDKNNITAQGFQDIAVAMEKNYTLRFMPIPMYDAAQALKTNPEKTEEALQKIENYLLRNHETRKYLQEQAYRLQQGIVTSTTQQMIDRICVKVQDHLNSLRACGGDAIQEDLKAAERLMRDAKNSKTLLPNLYHVGGASWAGASGLSSSPIQETLESMAGEVTRVVDEQLKDLLESMVDAAETLCPNVMRKAHIRQDLIHASTEKISIPRTFVKNVLLEQSGIDILNKISEVKLTVASFLSDRIVDEILDSLSSSHRKLANHFSRLNKSLPQREDLEVELVEEKPVKRAILTVEDLTEVERLEDLDTCMMTPKSKRKSIHSRMLRPVSRAFEMEFDLDKALEEVPIHIEDPPFPSVRQEKRSSGLISELPSEEGRRLEHFTKLRPKRNKKQQPTQAAVCTISILPQDGEQNGLMGRVDEGVDEFFTKKVTKMDCKRSSSRSSDAHELGEGDEKKKRDSRRSGFLNLIKSRSRSERPPTVLMTEELSSPKGAMRSPPVDTTRKEIKAAEHNGAPDRTEEIKTPEPLEEGPAEEAGRAERSDSRGSPQGGRRYVQVMGSGLLAEMKAKQERRAACAQKKLGNDVISQDPSSPVSCNTERLEGGATVPKLQPGLPEARFGSGTPEKNAKAEPRVDGGCRSRSSSSMPTSPKPLLQSPKPSPSARPSIPQKPRTASRPEDTPDSPSGPSSPKVALLPPILKKVSSDKERDGQNSSQSSPRSFSQEASRRSWGPAQEYQEQKQRSSGKDGHQGSKCSDSGEEAEKEFIFV |
| 1201 | sp|P19633|CASQ1\_RAT | MRATDRMGARAVSKLRLALLFVLVLGTPRSGVQGEDGLDFPEYDGVDRVINVNAKNYKNVFKKYEVLALLYHEPPEDDKASQRQFEMEELILELAAQVLEDKGVGFGLVDSEKDAAVAKKLGLTEEDSVYVFKGDEVIEYDGEFSADTLVEFLLDVLEDPVELIEGERELQAFENIEDEIKLIGYFKSKDSEHYKAYEDAAEEFHPYIPFFATFDSKVAKKLTLKLNEIDFYEAFMEEPVTIPDKPNSEEEIVSFVEEHRRSTLRKLKPESMYETWEDDLDGIHIVAFAEEADPDGYEFLETLKAVAQDNTENPDLSIIWIDPDDFPLLVPYWEKTFDIDLSAPQIGVVNVTDADSIWMEMDDEEDLPSAEELEDWLEDVLEGEINTEDDDDDDDDDDDDDDDDDD |
| 1202 | sp|Q92405|CATB\_ASPFU | MRLTFIPSLIGVANAVCPYMTGELNRRDEISDGDAAAATEEFLSQYYLNDNDAFMTSDVGGPIEDQNSLSAGERGPTLLEDFIFRQKIQRFDHERVPERAVHARGAGAHGVFTSYGDFSNITAASFLAKEGKQTPVFVRFSTVAGSRGSSDLARDVHGFATRFYTDEGNFDIVGNNIPVFFIQDAILFPDLIHAVKPRGDNEIPQAATAHDSAWDFFSQQPSTMHTLLWAMSGHGIPRSFRHVDGFGVHTFRFVTDDGASKLVKFHWKSLQGKASMVWEEAQQTSGKNPDFMRQDLHDAIEAGRYPEWELGVQIMDEEDQLRFGFDLLDPTKIVPEEFVPITKLGKMQLNRNPRNYFAETEQVMFQPGHIVRGVDFTEDPLLQGRLFSYLDTQLNRHGGPNFEQLPINQPRVPVHNNNRDGAGQMFIPLNPHAYSPKTSVNGSPKQANQTVGDGFFTAPGRTTSGKLVRAVSSSFEDVWSQPRLFYNSLVPAEKQFVIDAIRFENANVKSPVVKNNVIIQLNRIDNDLARRVARAIGVAEPEPDPTFYHNNKTADVGTFGTKLKKLDGLKVGVLGSVQHPGSVEGASTLRDRLKDDGVDVVLVAERLADGVDQTYSTSDAIQFDAVVVAAGAESLFAASSFTGGSANSASGASSLYPTGRPLQILIDGFRFGKTVGALGSGTAALRNAGIATSRDGVYVAQSVTDDFANDLKEGLRTFKFLDRFPVDH |
| 1203 | sp|Q8WUD6|CHPT1\_HUMAN | MAAGAGAGSAPRWLRALSEPLSAAQLRRLEEHRYSAAGVSLLEPPLQLYWTWLLQWIPLWMAPNSITLLGLAVNVVTTLVLISYCPTATEEAPYWTYLLCALGLFIYQSLDAIDGKQARRTNSCSPLGELFDHGCDSLSTVFMAVGASIAARLGTYPDWFFFCSFIGMFVFYCAHWQTYVSGMLRFGKVDVTEIQIALVIVFVLSAFGGATMWDYTIPILEIKLKILPVLGFLGGVIFSCSNYFHVILHGGVGKNGSTIAGTSVLSPGLHIGLIIILAIMIYKKSATDVFEKHPCLYILMFGCVFAKVSQKLVVAHMTKSELYLQDTVFLGPGLLFLDQYFNNFIDEYVVLWMAMVISSFDMVIYFSALCLQISRHLHLNIFKTACHQAPEQVQVLSSKSHQNNMD |
| 1204 | sp|Q14511|CASL\_HUMAN | MKYKNLMARALYDNVPECAEELAFRKGDILTVIEQNTGGLEGWWLCSLHGRQGIVPGNRVKLLIGPMQETASSHEQPASGLMQQTFGQQKLYQVPNPQAAPRDTIYQVPPSYQNQGIYQVPTGHGTQEQEVYQVPPSVQRSIGGTSGPHVGKKVITPVRTGHGYVYEYPSRYQKDVYDIPPSHTTQGVYDIPPSSAKGPVFSVPVGEIKPQGVYDIPPTKGVYAIPPSACRDEAGLREKDYDFPPPMRQAGRPDLRPEGVYDIPPTCTKPAGKDLHVKYNCDIPGAAEPVARRHQSLSPNHPPPQLGQSVGSQNDAYDVPRGVQFLEPPAETSEKANPQERDGVYDVPLHNPPDAKGSRDLVDGINRLSFSSTGSTRSNMSTSSTSSKESSLSASPAQDKRLFLDPDTAIERLQRLQQALEMGVSSLMALVTTDWRCYGYMERHINEIRTAVDKVELFLKEYLHFVKGAVANAACLPELILHNKMKRELQRVEDSHQILSQTSHDLNECSWSLNILAINKPQNKCDDLDRFVMVAKTVPDDAKQLTTTINTNAEALFRPGPGSLHLKNGPESIMNSTEYPHGGSQGQLLHPGDHKAQAHNKALPPGLSKEQAPDCSSSDGSERSWMDDYDYVHLQGKEEFERQQKELLEKENIMKQNKMQLEHHQLSQFQLLEQEITKPVENDISKWKPSQSLPTTNSGVSAQDRQLLCFYYDQCETHFISLLNAIDALFSCVSSAQPPRIFVAHSKFVILSAHKLVFIGDTLTRQVTAQDIRNKVMNSSNQLCEQLKTIVMATKMAALHYPSTTALQEMVHQVTDLSRNAQLFKRSLLEMATF |
| 1205 | sp|F4K128|CHR23\_ARATH | MVKQLQEQEENDPVEKTKSLISALNYLSRDLLLPSHLYASVSSIYHASVSDLSPSPPLRGNSYTPNRGDLMSEFEDALLQQRLNYESGSRLAELKETRYKNRIHNRLSQLEGLPSNRGEDLQEKCLLELYGLKLQELQCRVRGEVSAEYWLRLNCADPERQLYDWGMMRLPRRMYGVGDSFVMEADDQFRNKRDAERLLRLEEEEKNLIETTQRKFFAEVLNAVREFQLQIQASHRRCKQRNDGVQAWHGKQRQRATRAEKLRIMALKSDDQEEYMKLAKESKNEKLTLFLEETNKIFVSLGAAVQRQKDAKLSENTKLLKGSESDLSDVDAPEDVLPAQDIEIIDSDNNDDSNDLLEGERQFNLAIHSIQEKVTKQPSLLQGGELRSYQLEGLQWMVSLYNNDYNGILADEMGLGKTIQTIALIAYLLESKDLHGPHLILAPKAVLPNWENEFALWAPSISAFLYDGSKEKRTEIRARIAGGKFNVLITHYDLIMRDKAFLKKIDWNYMIVDEGHRLKNHECALAKTLGTGYRIKRRLLLTGTPIQNSLQELWSLLNFLLPHIFNSIHNFEEWFNTPFAECGSASLTDEEELLIINRLHHVIRPFLLRRKKSEVEKFLPGKTQVILKCDMSAWQKLYYKQVTDVGRVGLHSGNGKSKSLQNLTMQLRKCCNHPYLFVGADYNMCKKPEIVRASGKFELLDRLLPKLKKAGHRILLFSQMTRLIDLLEIYLSLNDYMYLRLDGSTKTDQRGILLKQFNEPDSPYFMFLLSTRAGGLGLNLQTADTIIIFDSDWNPQMDQQAEDRAHRIGQKKEVRVFVLVSIGSIEEVILERAKQKMGIDAKVIQAGLFNTTSTAQDRREMLEEIMSKGTSSLGEDVPSEREINRLAARTEEEFWMFEQMDEERRKKENYKTRLMEEKEVPEWAYTSETQEDKTNAKNHFGSLTGKRKRKEAVYSDSLSDLQWMKAMESEDEDASKVSQKRKRTDTKTRMSNGSKAEAVLSESDEEKEEEEEERKEESGKESEEENEKPLHSWKTNKKKRSRYPVMTSSPNSRGKGSSKGSKRN |
| 1206 | sp|Q95029|CATL\_DROME | MNHLGVFETRFRPRTRHKSQRAQLIPEQITMRTAVLLPLLALLAVAQAVSFADVVMEEWHTFKLEHRKNYQDETEERFRLKIFNENKHKIAKHNQRFAEGKVSFKLAVNKYADLLHHEFRQLMNGFNYTLHKQLRAADESFKGVTFISPAHVTLPKSVDWRTKGAVTAVKDQGHCGSCWAFSSTGALEGQHFRKSGVLVSLSEQNLVDCSTKYGNNGCNGGLMDNAFRYIKDNGGIDTEKSYPYEAIDDSCHFNKGTVGATDRGFTDIPQGDEKKMAEAVATVGPVSVAIDASHESFQFYSEGVYNEPQCDAQNLDHGVLVVGFGTDESGEDYWLVKNSWGTTWGDKGFIKMLRNKENQCGIASASSYPLV |
| 1207 | sp|P0CY33|CDC42\_CANAL | MQTIKCVVVGDGAVGKTCLLISYTTSKFPADYVPTVFDNYAVTVMIGDEPFTLGLFDTAGQEDYDRLRPLSYPSTDVFLVCFSVISPASFENVKEKWFPEVHHHCPGVPIIIVGTQTDLRNDDVILQRLHRQKLSPITQEQGEKLAKELRAVKYVECSALTQRGLKTVFDEAIVAALEPPVIKKSKKCTIL |
| 1208 | sp|Q873Y0|CHIA1\_ASPFM | MVSSKLSFVATAVAALAPLASAFDASSRSNLAIYWGQGPNQLRLSHFCQETSLDIINIGFINYFPDMSPGHWPGSNFGNQCDGSVYVTNDGVVTKLLSGCHQIMEDIPICQAAGKKVLLSIGGAYPPDQSILSEDSAVAFATFLWGAFGPVAEGWEGPRPFGDVVVDGFDFDIEHNGGFGYATMVNTFRQYFNQVPERKFYLSAAPQCIIPDAQLSDAIFNAAFDFIWIQYYNTAACSAKSFIDTSLGTFNFDAWVTVLKASASKDAKLYVGLPASETAANQGYYLTPDEVESLVSTYMDRYPDTFGGIMLWEATASENNQIDGAPYADHMKDILLHCDPSPPVTSSSAVPSSTPVTTPSPSSSAVPSSTPAVSETPSPSSSAVPSSTPVASSTPVVPGTSASSSPVSSSSAIAPSTPVVPGTSTPSSTPVASSTPVVPGTSASSSPVSSSSAVASSTPVVPGTSVPSSTPAIPGGSSSSSEAVASSTPLVTLTLTVSPTPAPSSSESSSTDLSSSTQTDVGTAPSQPAGPSTTATATTSSSSSSTDESSTTVGSGNGNGSGSTTTTAATDSITAAPTATSSATATGATSEPVTITTIIVTSYIDICPTGFTTVTTTYTTTYCPGTNTATATATVTNPPSGPGGAGSQTTAPTVPEGWTTTVTVCTQCAAKPTTVTLTLPVTETGSTSTDAVPAPPAATGEGSNPTQPSGASPTGGNGSFSEEPVPPPAVTQVSTSTEIVTLVRPTSSRPLILGTGTVHPSSTLAVKPSAKPSGQNSGSSSHVPIPPSYTQEAVSPLSTGAASRVTGLGHGLVLTVLTLSAFFVL |
| 1209 | sp|P10252|CD48\_RAT | MYFKKRRWFLILESLLLSLVTGFQDQSVPNVNAITGSNVTLTILKHPLASYQRLTWLHTTNQKILEYFPNGKKTVFESVFKDRVDLDKTNGALRIYNVSKEDRGDYYMRMLHETEDQWKITMEVYDLVSKPAIKIEKTKNLTDSCHLRLSCKVEDQGVDYTWYEDSGPFPQRNPGYVLEITITPHNKSTFYTCQVSNPVSSENDTLYFIPPCTLARSSGVHWIAAWLVVTLSIIPSILLA |
| 1210 | sp|P17411|CHBF\_ECOLI | MSQKLKVVTIGGGSSYTPELLEGFIKRYHELPVSELWLVDVEGGKPKLDIIFDLCQRMIDNAGVPMKLYKTLDRREALKDADFVTTQLRVGQLPARELDERIPLSHGYLGQETNGAGGLFKGLRTIPVIFDIVKDVEELCPNAWVINFTNPAGMVTEAVYRHTGFKRFIGVCNIPIGMKMFIRDVLMLKDSDDLSIDLFGLNHMVFIKDVLINGKSRFAELLDGVASGQLKASSVKNIFDLPFSEGLIRSLNLLPCSYLLYYFKQKEMLAIEMGEYYKGGARAQVVQKVEKQLFELYKNPELKVKPKELEQRGGAYYSDAACEVINAIYNDKQAEHYVNIPHHGQIDNIPADWAVEMTCKLGRDGATPHPRITHFDDKVMGLIHTIKGFEIAASNAALSGEFNDVLLALNLSPLVHSDRDAELLAREMILAHEKWLPNFADCIAELKKAH |
| 1211 | sp|P28175|CFC\_TACTR | MVLASFLVSGLVLGILAQQMRPVQSRGVDLGLCDETRFECKCGDPGYVFNVPMKQCTYFYRWRPYCKPCDDLEAKDICPKYKRCQECKAGLDSCVTCPPNKYGTWCSGECQCKNGGICDQRTGACTCRDRYEGAHCEILKGCPLLPSDSQVQEVRNPPDNPQTIDYSCSPGFKLKGVARISCLPNGQWSSFPPKCIRECAKVSSPEHGKVNAPSGNMIEGATLRFSCDSPYYLIGQETLTCQGNGQWSGQIPQCKKLVFCPDLDPVNHAEHQVKIGVEQKYGQFPQGTEVTYTCSGNYFLMGFNTLKCNPDGSWSGSQPSCVKVADREVDCDSKAVDFLDDVGEPVRIHCPAGCSLTAGTVWGTAIYHELSSVCRAAIHAGKLPNSGGAVHVVNNGPYSDFLGSDLNGIKSEELKSLARSFRFDYVSSSTAGRSGCPDGWFEVEENCVYVTSKQRAWERAQGVCTNMAARLAVLDKDLIPSSLTETLRGKGLTTTWIGLHRLDAEKPFVWELMDRSNVVLNDNLTFWASGEPGNETNCVYLDIRDQLQPVWKTKSCFQPSSFACMMDLSDRNKAKCDDPGPLENGHATLHGQSIDGFYAGSSIRYSCEVLHYLSGTETVTCTTNGTWSAPKPRCIKVITCQNPPVPSYGSVEIKPPSRTNSISRVGSPFLRLPRLPLPLARAAKPPPKPRSSQPSTVDLASKVKLPEGHYRVGSRAIYTCESRYYELLGSQGRRCDSNGNWSGRPASCIPVCGRSDSPRSPFIWNGNSTEIGQWPWQAGISRWLADHNMWFLQCGGSLLNEKWIVTAAHCVTYSATAEIIDPSQFKIYLGKYYRDDSRDDDYVQVREALEIHVNPNYDPGNLNFDIALIQLKTPVTLTTRVQPICLPTDITTREHLKEGTLAVVTGWGLNENNTYSEMIQQAVLPVVAASTCEEGYKEADLPLTVTENMFCAGYKKGRYDACSGDSGGPLVFADDSRTERRWVLEGIVSWGSPSGCGKANQYGGFTKVNVFLSWIRQFI |
| 1212 | sp|P09564|CD7\_HUMAN | MAGPPRLLLLPLLLALARGLPGALAAQEVQQSPHCTTVPVGASVNITCSTSGGLRGIYLRQLGPQPQDIIYYEDGVVPTTDRRFRGRIDFSGSQDNLTITMHRLQLSDTGTYTCQAITEVNVYGSGTLVLVTEEQSQGWHRCSDAPPRASALPAPPTGSALPDPQTASALPDPPAASALPAALAVISFLLGLGLGVACVLARTQIKKLCSWRDKNSAACVVYEDMSHSRCNTLSSPNQYQ |
| 1213 | sp|P29029|CHIT\_YEAST | MSLLYIILLFTQFLLLPTDAFDRSANTNIAVYWGQNSAGTQESLATYCESSDADIFLLSFLNQFPTLGLNFANACSDTFSDGLLHCTQIAEDIETCQSLGKKVLLSLGGASGSYLFSDDSQAETFAQTLWDTFGEGTGASERPFDSAVVDGFDFDIENNNEVGYSALATKLRTLFAEGTKQYYLSAAPQCPYPDASVGDLLENADIDFAFIQFYNNYCSVSGQFNWDTWLTYAQTVSPNKNIKLFLGLPGSASAAGSGYISDTSLLESTIADIASSSSFGGIALWDASQAFSNELNGEPYVEILKNLLTSASQTATTTVATSKTSAASTSSASTSSASTSQKKTTQSTTSTQSKSKVTLSPTASSAIKTSITQTTKTLTSSTKTKSSLGTTTTESTLNSVAITSMKTTLSSQITSAALVTPQTTTTSIVSSAPIQTAITSTLSPATKSSSVVSLQTATTSTLSPTTTSTSSGSTSSGSTSSDSTARTLAKELNAQYAAGKLNGKSTCTEGEIACSADGKFAVCDHSAWVYMECASGTTCYAYDSGDSVYTQCNFSYLESNYF |
| 1214 | sp|Q108U0|CFTR\_LOXAF | MQKSPLERASVISKLFFSWPGPILRKGYRQHLKLSDIYQIPSVDSADNLSEKLEREWDRELASKKNPKLINALRRCFFWRFVFYGILLYLGEVTKAVQPLLLGRIIASYDPDNKVERSIAIYLAIGLCLLFIVRTLLLHPAIFGLHHMGMQMRIAMFSLIYKKTLKLSSRVLDKISIGQLVSLLSNNLNKFDEGLALAHFVWIAPLQVTLLMGLIWDLLQASAFCGLAFLIIVALGQAGLGRMMMKYRDKRAGKINERLVITSEMIENIQSVKAYCWEEAMEKMIENLRQIELRLTRKAAYVRYFNSAAFFFSGFFVVFLSVLPYAMLKGIILRKIFTTISFCIVLRMAVTRQFPWAVQTWYDSLGAINKIQDFLQKQEYKTLEYNLTTTDVVMENVTAFWEEGFGELFEKAKQNNNNREISNGDNSLFFSNFSLLGAPVLKDINFKIERGQLLAVAGSTGAGKTSLLMMIMGELEPSEGKIKHSGRISFCSQFSWIMPGTIKENIIFGVSYDEYRYRSVIKACQLEEDISKFAEKDNIVLGEGGITLSGGQRARISLARAVYKDADLYLLDSPFGYLDVLTEKEIFESCVCKLMANKTRILVTSKMEHLKKADKILILHEGSSYFYGTFSELQTLRPDFSSELMGYDSFDQFSAERRNSILTETLRRFSLEGDTVSWNETKKQSFKQAGEFGEKRKNSILNSINSIRKFSVVQKTPLQMNGIDEDSDEPLERRLSLVPDSEQGEAILPRSNVINTGPTFQRRRRQSVLNLMTRPSINQGQNIHRRTAASARKMSLAPQANLTEMDIYSRRLSQDSGLEISEEINEEDLKECFFDDVENMPPVTTWNTYLRYVTVHKSLIFVLIWCLVVFLAEVAVSLVVLYLLRTSSLQDKGNNTTVNANSSYGVIVTNTSSYYLLYIYVGIADSLFALAIFRGLPLVHTLIKVSKTLHHKMLRSILQAPMSTFNTLKAGRILNRFSKDIAILDDLLPLTMFDFIQLLLIVIGAVVVVSVLQPYIFLATVPVIAAFIILRAYFLHTSQQLKQLESEARSPIFTHLVTSVKGLWTLRAFGRQPYFETLFHKALNLHTANWFLYLSTLRWFQMRIEIIFVIFFIAVTFVSILTTGEGEGTIGIILTLAMNIMNTLQWAVNSSIDVDSLMRSVSRIFKFIDMPTEESKPAKSVKPPKDGQLSKVMIIENQHVKKDYNWPSGGHMTVKDLTAKYIDGGNAILENISFSISPGQRVGLLGRTGSGKSTLLSAFLRLLNTEGEIQIDGVSWDSITLQQWRKAFGVIPQKVFIFSGTFRKNLDPYEQCSDQEIWKVADEVGLRSVIEQFPGKLDFVLVDGGYVLSHGHKQLMCLARSVLSKAKILLLDEPSAHLDPITYQIIRRTLKQAFADCTVILCEHRVEAMLECQQFLVIEENTVRQYDSIQKLLNEKSLFRQAISPLDRMKLLPHRNSSRHRSRSQIAALKEETEEEVQETRL |
| 1215 | sp|P33681|CD80\_HUMAN | MGHTRRQGTSPSKCPYLNFFQLLVLAGLSHFCSGVIHVTKEVKEVATLSCGHNVSVEELAQTRIYWQKEKKMVLTMMSGDMNIWPEYKNRTIFDITNNLSIVILALRPSDEGTYECVVLKYEKDAFKREHLAEVTLSVKADFPTPSISDFEIPTSNIRRIICSTSGGFPEPHLSWLENGEELNAINTTVSQDPETELYAVSSKLDFNMTTNHSFMCLIKYGHLRVNQTFNWNTTKQEHFPDNLLPSWAITLISVNGIFVICCLTYCFAPRCRERRRNERLRRESVRPV |
| 1216 | sp|O43866|CD5L\_HUMAN | MALLFSLILAICTRPGFLASPSGVRLVGGLHRCEGRVEVEQKGQWGTVCDDGWDIKDVAVLCRELGCGAASGTPSGILYEPPAEKEQKVLIQSVSCTGTEDTLAQCEQEEVYDCSHDEDAGASCENPESSFSPVPEGVRLADGPGHCKGRVEVKHQNQWYTVCQTGWSLRAAKVVCRQLGCGRAVLTQKRCNKHAYGRKPIWLSQMSCSGREATLQDCPSGPWGKNTCNHDEDTWVECEDPFDLRLVGGDNLCSGRLEVLHKGVWGSVCDDNWGEKEDQVVCKQLGCGKSLSPSFRDRKCYGPGVGRIWLDNVRCSGEEQSLEQCQHRFWGFHDCTHQEDVAVICSG |
| 1217 | sp|A2AJK6|CHD7\_MOUSE | MADPGMMSLFGEDGSLFSEGLEGLGECGYPENPVNPMGQQMPIDQGFPSLQPSLHHPSPNQNQTKLTHFDHYSQYEQKMHLMDQPNRMMGSAPGNGLASPHSQYHTPPVPQVPHGGGGGGQMGVYPGIQNERHGQSFVDGGSMWGPRAVQVPDQIRAPYQQQQPQPAPSGPPAQGHPQHMQQMGSYLARGDFSMQQHGQPQQRMGQFSQGQEGLSQGSPFIATSGPGHLSHMPQQSPSMAPSLRHPVQQQFHHHPAALHGESVAHSPRFSPNPPQQGAVRPQTLNFSSRNQTVPSPTVNNSGQYSRYPYSNLNQGLVNSTGMNQNLGLTNSTPMNQSVPRYPNAVGFPSNSGQGLVHQQPIHSSGSLNQMNTQTMHPSQPQGTYASPPPMSPMKAMSNPAGTPPPQVRPGSAGMPMEVGSYPNMPHPQPSHQPPGAMGIGQRNMGPRNMQQPRSFMGMSSAPRELTGHMRPNGCPGVGLADPQAIQERLIPGQQHPGQQPSFQQLPTCPPLQPHPGLHQSSPPHPHHQPWAQLHPSPQNTPQKVPVHQHSPSEPFLEKPVPDMTQVSAQNAQLVKSDDYLPSIEQQPQQKKKKKKNNHIAAGDSSKGFGKDDFPGGVENQELRRNSLDVSQEEKKKKKRPKVKKDPKESKEPKEKKEPKTPKAPKIPKEPKEKKAKTVTPKPKSSKKSSNKKPDSEASALKKKVNKGKTEGSENSDLDKTPPPSPAPEEDEDPGVQKRRSSRQVKRKRYTEDLEFKISDEEADDADAAGRDSPSNTSQSEQQESVDAEGPVVEKIMSSRLVKKQKESGEEVEVEEFYVKYKNFSYLHCQWASVEDLEKDKRIQQKIKRFKSKQGQSKFLSEIEDDLFNPDYVEVDRIMDFARSTDDRGEPVIHYLVKWCSLPYEDSTWELKQDIDQTKIEEFEKLMSREPETERVERPPADDWKKSESSREYKNNNKLREYQLEGVNWLLFNWYNMRNCILADEMGLGKTIQSITFLYEIYLKGIHGPFLVIAPLSTIPNWEREFRTWTELNVVVYHGSQASRRTIQLYEMYFKDPQGRVIKGSYKFHAIITTFEMILTDCPELRNIPWRCVVIDEAHRLKNRNCKLLEGLKMMDLEHKVLLTGTPLQNTVEELFSLLHFLEPSRFPSETTFMQEFGDLKTEEQVQKLQAILKPMMLRRLKEDVEKNLAPKEETIIEVELTNIQKKYYRAILEKNFTFLSKGGGQANVPNLLNTMMELRKCCNHPYLINGAEEKILEEFKETHNAESPDFQLQAMIQAAGKLVLIDKLLPKLKAGGHRVLIFSQMVRCLDILEDYLIQRRYPYERIDGRVRGNLRQAAIDRFSKPDSDRFVFLLCTRAGGLGINLTAADTCIIFDSDWNPQNDLQAQARCHRIGQSKSVKIYRLITRNSYEREMFDKASLKLGLDKAVLQSMSGRENATNGVQQLSKKEIEDLLRKGAYGALMDEEDEGSKFCEEDIDQILLRRTHTITIESEGKGSTFAKASFVASGNRTDISLDDPNFWQKWAKKAELDIDALNGRNNLVIDTPRVRKQTRLYSAVKEDELMEFSDLESDSEEKPCAKPRRPQDKSQGYARSECFRVEKNLLVYGWGRWTDILSHGRYKRQLTEQDVETICRAILVYCLNHYRGDENIKSFIWDLITPTADGQTRALLNHSGLSAPVPRGRKGKKVKAQSTQPVVHDAHWLASCNPDALFQEDSYKKHLKHHCNKVLLRVRMLYYLRQEVIGDQAEKILEGADSSEADVWIPEPFHAEVPTDWWDREADKSLLIGVFKHGYEKYNSMRADPALCFLERVGMPDAKAIAAEQRGTDMLADGGDGGEFDREDEDPEYKPTRAPFKDEIDEFANSPAEDKEESMEVHSSGKHSESNAELGQLYWPNTSTLTTRLRRLITAYQRSYKRQQMRQEALMKTDRRRRRPREEVRALEAEREAIISEKRQKWTRREEADFYRVVSTFGVIFDPVKQQFDWNQFRAFARLDKKSDESLGKYFSCFVAMCRRVCRMPAKPEDEPPDLASLIEPITEERASRTLYRIELLRKIREQVLHHPQLSDRLKLCQPSLDLPEWWECGRHDRDLLVGAAKHGVSRTDYHILNDPELSFLDAHKSFAQNRGASTVPPLNTLAMGFGQTPPVISSAHVHEEKAMEQAEGKAEECEHSPAKERSDGKEEEEEAGGAKDGKQECEVEASSVKGELKGVEGSADPGSKSVSEKGSEEDEEEKLEDDDKSEESSQPEAGAVSRGKTFDEESNASLSTARDETRDGFYMEDGDASVAQLLHERTFAFSFWPKDRVMINRLDNICEAVLKGKWPVNRRQMFDFQGLVPGYPPSAVDSPLQKRSFAELSMVSQASISASEDITTSPQLSKDDALNLSVPRQRRRRRRKVEIEAERAAKRRNLMEMVAQLRESQVVSENGQEKVVDLSKASREATSSTSNFSSLTSKFILPNVSTPVSDAFKSQMELLQAGLSRTPTRHMLNGSLVDGEPPMKRRRGRRKNVEGLDLLFMSHKRTPLSAEDAEVTKAFEEDIETPPIRNIPSPGQLDPDTRIPVINLEDGTRLVGEDAPKNKDLVDWLKLHPTYTVDMPSYVPKNTDVLFSSFQKPKQKRHRCRNPNKLDINTLTGEERVPVVNKRNGKKMGGAMAPPMKDLPRWLEENPEFAVAPDWTDIVKQSGFVPESMFDRLLTGPVVRGEGASRRGRRPKSEIARAAAAAAAVASTSGINPLLVNSLFAGMDLTSLQNLQNLQSLQLAGLMGFPPGLATAATAGGDAKSPAAVLPLMLPGMAGLPNVFGLGGLLNNPLSAATGNTTTASSQGEPEDGTSKAEEKGNDNEDENRDSEKSTDTVSAADSANGSVGAATAPAALPSNPLAFNPFLLSTMAPGLFYPSMFLPPGLGGLTLPGFPALAGLQNAVGTSEEKAADKAEGGPCKDGETLEGSDAEENLDKTVESSILEDEVAQGEELDSLEGGDEIENTGNDE |
| 1218 | sp|P18757|CGL\_RAT | MQKDASSSGFLPSFQHFATQAIHVGPEPEQWSSRAVVLPISLATTFKQDSPGQSSGFVYSRSGNPTRNCLEKAVAALDGAKHCLTFARGLAATTTITHLLKAGDEVICMDEVYGGTNRYFRRVASEFGLKISFVDCSKTKLLEAAITPQTKLVWIETPTNPTLKLADIKACAQIVHKHKDIILVVDNTFMSAYFQRPLALGADICMCSATKYMNGHSDVVMGLVSVTSDDLNERLRFLQNSLGAVPSPFDCYLCCRGLKTLQIRMEKHFRNGMAVARFLESNPRVEKVIYPGLPSHPQHELAKRQCTGCPGMVSFYIKGTLQHAQVFLKNIKLFALAESLGGYESLAELPAIMTHASVPEKDRATLGISDTLIRLSVGLEDEKDLLEDLGQALKAAHP |
| 1219 | sp|Q99626|CDX2\_HUMAN | MYVSYLLDKDVSMYPSSVRHSGGLNLAPQNFVSPPQYPDYGGYHVAAAAAAAANLDSAQSPGPSWPAAYGAPLREDWNGYAPGGAAAAANAVAHGLNGGSPAAAMGYSSPADYHPHHHPHHHPHHPAAAPSCASGLLQTLNPGPPGPAATAAAEQLSPGGQRRNLCEWMRKPAQQSLGSQVKTRTKDKYRVVYTDHQRLELEKEFHYSRYITIRRKAELAATLGLSERQVKIWFQNRRAKERKINKKKLQQQQQQQPPQPPPPPPQPPQPQPGPLRSVPEPLSPVSSLQASVPGSVPGVLGPTGGVLNPTVTQ |
| 1220 | sp|Q5D1Z7|CFTR\_TRIVU | MQRSPLEKANVFSKLFFSWTRPILKKGFRRRLELSDIYQIPSCNSADHLSEKLEREWDRELASKKKPKLINALRRCFFWRFVFHGIILYLGEVTKAVQPLLLGRIIASYDPDNKAERSIAIYLGIGLCLLFIVRTLLLHPAIFGLHHMGMQMRIALFSLIYKKTLKLSSRVLDKISTGQLISLLSNNLNKFDEGLALAHFVWIAPLQVVLLMGLLWDLLQASAFCGLAFLVVLALFQAWLGQMMMKYRERRAGKINERLVITSEMIDNIQSVKAYCWEEAMETMIENLRQTELKLTRKTAYVRYFNSSAFFFSGFFVVFLAVLPYALIKGIILRKIFTTISFCIVLRMAVTRQFPWAVQTWYDSLGAINKIQDFLQKEEYKTLEYNLTTTDVMMENITAFWDEGFGDLFIKVKQSNSDGKIPNGDHGLFFSNFSLLGTPVLKNISFKIEKGQLLAVAGSTGAGKTSLLMLIMGELEPSEGKIKHSGRISFCSQFSWIMPGTIKENIIFGVSYDEYRYRSVIKACQLEEEISKFAEKDNTILGEGGITLSGGQRARISLARAIYKDADLYLLDSPFGYLDVLTEKEIFESCVCKLMANKTRILITSKMEHLKKADKILILHEGSCYFYGAFSELQSLRPDFSSKLMGFDSFDQFSADRRSSILTETLRRFSIEGDAAVSWNEGKMQSFKQTGDFGERRKNSVLSPLNSNRKFSVVQKGQQQMNGIEENDDEPLERRLSLVPDSEQGEAILPRSNMINTGPTFQGRNRRQSVLNLMTRPSVHQGQGMYRTGNAAVRKMSMVPQSQLSEIDIYSRRLSRDSGMDISDEINEEDLKEWFFDDVENIPAVTTWNTYLRYITVHKSLIFVLIWCLVIFLVEVGASLVGLWVLKETSLKDKANTTNNTYAVIITNTSKYYLFYIYVGVADTFFALGLLRGLPLVHTLISVSKILHHKMLCSVLKAPMSTFSTLKAGGILNRFSKDIAILDDLLPLTIFDFVQLILIVVGALIVVSVLQPYIFLATVPVIIAFIMLRAYFLQTSQQLKQLESEARTPIFTHLVTSLKGLWTLRAFGRQPYFETLFHKALNLHTANWFLYMSTLRWFQMRIEIIFVTFFCIVTFISILTTGDGEGRVGILLTLAMNIMSTLQWAVNSSIDVDSLMRSVSRVFKFIDMPSEEPLPPKPTKSKKNQLSQVLIIENEHVKKENWPSGGQMTVKDLTAKYIDGGNAVLENISFSISSGQRVGLLGRTGSGKSTLLAAFLRLLNTQGDIQIDGVSWDSVPLQQWRKAFGVIPQKVFIFSGTFRKNLDPYGQWSDHELWKVADEVGLKSVIEQFPGKLDFVLVDAGCVLSHGHKQLICLARSVLSKAKILLLDEPSAHLDPITYQIIRRALKNAFADCTVILSEHRIEAMLECQRFLVIEESKVRQYESIQKLVTEKRLYGQAISHSDRMKLFPHRNSSRHKSRAKITALKEETEEEVQETRL |
| 1221 | sp|Q8Y5F1|CHDC\_LISMO | MNEAVKTLDGWFCLHDFRSIDWAAWRELNPGNQELMLNELSHFLSDMEITKNIGEGEHTIYSILGQKADLVFFTLRDSLEALNEVENRFNKLAIADYLLPTYSYISVVELSNYLASHMAGGDDPYQNKGVRARLYPALPPKKHICFYPMSKKRDGADNWYMLPMEERQQLIRDHGLIGRSYAGKVQQIIGGSIGFDDYEWGVTLFSDDALEFKRIVTEMRFDEASARYAEFGSFFIGNLLLSEQLSKLFTI |
| 1222 | sp|P50750|CDK9\_HUMAN | MAKQYDSVECPFCDEVSKYEKLAKIGQGTFGEVFKARHRKTGQKVALKKVLMENEKEGFPITALREIKILQLLKHENVVNLIEICRTKASPYNRCKGSIYLVFDFCEHDLAGLLSNVLVKFTLSEIKRVMQMLLNGLYYIHRNKILHRDMKAANVLITRDGVLKLADFGLARAFSLAKNSQPNRYTNRVVTLWYRPPELLLGERDYGPPIDLWGAGCIMAEMWTRSPIMQGNTEQHQLALISQLCGSITPEVWPNVDNYELYEKLELVKGQKRKVKDRLKAYVRDPYALDLIDKLLVLDPAQRIDSDDALNHDFFWSDPMPSDLKGMLSTHLTSMFEYLAPPRRKGSQITQQSTNQSRNPATTNQTEFERVF |
| 1223 | sp|Q9VKV8|CFA20\_DROME | MFKNTFQSGFLSILYSIGSKPLQLWDKKVRNGHIKRITDNDIQSLVLEIVGTNVSTTFITCPADPKKTLGIKLPFLVMIIKNMKKYFTFEVQVLDDKNVRRRFRASNYQSTTRVKPFICTMPMRLDEGWNQIQFNLSDFTRRAYGTNYVETLRVQIHANCRIRRVYFSDRLYSEDELPPEFKLFLPIQKPVQKSNAICS |
| 1224 | sp|Q64299|CCN3\_MOUSE | MSLFLRKRCLCLGFLLFHLLSQVSASLRCPSRCPPKCPSISPTCAPGVRSVLDGCSCCPVCARQRGESCSEMRPCDQSSGLYCDRSADPNNQTGICMVPEGDNCVFDGVIYRNGEKFEPNCQYFCTCRDGQIGCLPRCQLDVLLPGPDCPAPRKVAVPGECCEKWTCGSDEQGTQGTLGGLALPAYRPEATVGVEVSDSSINCIEQTTEWSACSKSCGMGVSTRVTNRNRQCEMVKQTRLCIVRPCEQEPEEVTDKKGKKCLRTKKSLKAIHLQFENCTSLYTYKPRFCGVCSDGRCCTPHNTKTIQVEFQCLPGEIIKKPVMVIGTCTCYSNCPQNNEAFLQDLELKTSRGEI |
| 1225 | sp|P26201|CD36\_BOVIN | MGCNRNCGLIAGAVIGAVLAVFGGILMPVGDMLIEKTIKKEVVLEEGTIAFKNWVKTGTDVYRQFWIFDVQNPDEVTVNSSKIKVKQRGPYTYRVRYLAKENITQDPETHTVSFLQPNGAIFEPSLSVGTEDDTFTILNLAVAAAPQLYPNTFMQGILNSFIKKSKSSMFQNRTLKELLWGYTDPFLNLVPYPITTTIGVFYPYNNTADGIYKVFNGKDDISKVAIIDTYKGRKNLSYWSSYCDLINGTDAASFPPFVEKTRVLQFFSSDICRSIYAVFGAEINLKGIPVYRFILPSFAFASPFQNPDNHCFCTEKIISKNCTLYGVLDIGKCKEGKPVYISLPHFLHGSPELAEPIESLSPNEEEHSTYLDVEPITGFTLRFAKRLQVNMLVKPAKKIEALKNLKHNYIVPILWLNETGTIGDEKAEMFRNQVTGKINLLGLVEIVLLSVGVVMFIAFMISYCACRSKRVN |
| 1226 | sp|A8MS41|CCR4D\_ARATH | MFSSTTLHHLPRPNLLLPRKVISRRMSTNPAIEPKVRKFESVEGVDIGSRNKSDGFFAIPLYLSKLVALYNCISLSRIGTSNENFVFSGIRFRLVSYNILAQVYVKSALLPHSPPACLKWKARSHAILSVLKNLQADFFCLQEVDEYDSFYRNNMDSLGYSGIYIQRTGQRKRDGCAIFYKPSCAELVTKERIEYNDLVDSIKADSVSCSEQKIETSNEGKDSRKDSRDLNDPLVRLKRDCVGIMAAFRINKPFQHIVIVANTHLYWDPELADVKLAQAKYLLSRLAQFKTLISDEFECTPSLLLAGDFNSIPGDMVYSYLVSGNAKPTETIEEEEAPVPLSSVYEVTRGEPKFTNCTPGFTNTLDYIFISPSDFIKPVSILQLPEPDSPDVVGFLPNHHHPSDHLPIGAEFEIRRE |
| 1227 | sp|O97626|CD40L\_CANLF | MIETYSQTAPRSVATGPPVSMKIFMYLLTVFLITQMIGSALFAVYLHRRLDKIEDERNLYEDFVFMKTLQKCNKGEGSLSLLNCEEIKSQFEAFLKEIMLNNEMKKEENIAMQKGDQDPRIAAHVISEASSNPASVLRWAPKGYYTISSNLVSLENGKQLAVKRQGLYYVYAQVTFCSNRAASSQAPFVASLCLHSPSGTERVLLRAASSRGSSKPCGQQSIHLGGVFELHPGASVFVNVTDPSQVSHGTGFTSFGLLKL |
| 1228 | sp|Q70JA7|CHSS3\_HUMAN | MAVRSRRPWMSVALGLVLGFTAASWLIAPRVAELSERKRRGSSLCSYYGRSAAGPRAGAQQPLPQPQSRPRQEQSPPPARQDLQGPPLPEAAPGITSFRSSPWQQPPPLQQRRRGREPEGATGLPGAPAAEGEPEEEDGGAAGQRRDGRPGSSHNGSGDGGAAAPSARPRDFLYVGVMTAQKYLGSRALAAQRTWARFIPGRVEFFSSQQPPNAGQPPPPLPVIALPGVDDSYPPQKKSFMMIKYMHDHYLDKYEWFMRADDDVYIKGDKLEEFLRSLNSSKPLYLGQTGLGNIEELGKLGLEPGENFCMGGPGMIFSREVLRRMVPHIGECLREMYTTHEDVEVGRCVRRFGGTQCVWSYEMQQLFHENYEHNRKGYIQDLHNSKIHAAITLHPNKRPAYQYRLHNYMLSRKISELRYRTIQLHRESALMSKLSNTEVSKEDQQLGVIPSFNHFQPRERNEVIEWEFLTGKLLYSAAENQPPRQSLSSILRTALDDTVLQVMEMINENAKSRGRLIDFKEIQYGYRRVNPMHGVEYILDLLLLYKRHKGRKLTVPVRRHAYLQQLFSKPFFRETEELDVNSLVESINSETQSFSFISNSLKILSSFQGAKEMGGHNEKKVHILVPLIGRYDIFLRFMENFENMCLIPKQNVKLVIILFSRDSGQDSSKHIELIKGYQNKYPKAEMTLIPMKGEFSRGLGLEMASAQFDNDTLLLFCDVDLIFREDFLQRCRDNTIQGQQVYYPIIFSQYDPKVTNGGNPPTDDYFIFSKKTGFWRDYGYGITCIYKSDLLGAGGFDTSIQGWGLEDVDLYNKVILSGLRPFRSQEVGVVHIFHPVHCDPNLDPKQYKMCLGSKASTFASTMQLAELWLEKHLGVRYNRTLS |
| 1229 | sp|Q9NXG0|CNTLN\_HUMAN | MAARSPPSPHPSPPARQLGPRSPRVGRGAEVHAMRSEASGFAGAAREVVADESDKIWVGEEGSGGRRGPGGAAPAHAPLLSAPMGSRRLEGISVEEAMVTRTQLLEEELSSLKEELALCQADKEFVWSLWKRLQVTNPDLTQVVSLVVEREKQKSEAKDRKVLEILQVKDAKIQEFEQRESVLKQEINDLVKRKIAVDEENAFLRKEFSDLEKKFKDKSQEIKDTKECVQNKEEQNRLVIKNLEEENKKLSTRCTDLLNDLEKLRKQEAHLRKEKYSTDAKIKTFEDNLIEARKEVEVSQSKYNALSLQLSNKQTELIQKDMDITLVRKELQELQNLYKQNSTHTAQQAELIQQLQVLNMDTQKVLRNQEDVHTAESISYQKLYNELHICFETTKSNEAMLRQSVTNLQDQLLQKEQENAKLKEKLQESQGAPLPLPQESDPDYSAQVPHRPSLSSLETLMVSQKSEIEYLQEKLKIANEKLSENISANKGFSRKSIMTSAEGKHKEPPVKRSRSLSPKSSFTDSEELQKLRKAERKIENLEKALQLKSQENDELRDAHEKRKERLQMLQTNYRAVKEQLKQWEEGSGMTEIRKIKRADPQQLRQEDSDAVWNELAYFKRENQELMIQKMNLEEELDELKVHISIDKAAIQELNRCVAERREEQLFRSGEDDEVKRSTPEKNGKEMLEQTLQKVTELENRLKSFEKRSRKLKEGNKKLMKENDFLKSLLKQQQEDTETREKELEQIIKGSKDVEKENTELQVKISELETEVTSLRRQVAEANALRNENEELINPMEKSHQSADRAKSEMATMKVRSGRYDCKTTMTKVKFKAAKKNCSVGRHHTVLNHSIKVMSNVFENLSKDGWEDVSESSSDSEAQTSQTLGTIIVETSQKISPTEDGKDQKESDPTEDSQTQGKEIVQTYLNIDGKTPKDYFHDKNAKKPTFQKKNCKMQKSSHTAVPTRVNREKYKNITAQKSSSNIILLRERIISLQQQNSVLQNAKKTAELSVKEYKEVNEKLLHQQQVSDQRFQTSRQTIKKLNLDLAGLRKEKEDLLKKLESSSEITSLAEENSQVTFPRIQVTSLSPSRSMDLEMKQLQYKLKNATNELTKQSSNVKTLKFELLAKEEHIKEMHEKISRMERDITMKRHLIEDLKFRQKVNLESNKSFSEMLQNLDKKVKTLTEECSNKKVSIDSLKQRLNVAVKEKSQYEQMYQKSKEELEKKDLKLTLLVSRISETESAMAEIETAASKQLQELALQSEQVLEGAQKTLLLANEKVEEFTTFVKALAKELQNDVHVVRRQIRELKKMKKNRDACKTSTHKAQTLAASILNISRSDLEEILDTEDQVEIEKTKIDAENDKEWMLYIQKLLEGQSLTLSPRLKCNGAIVAHQNLRLPDSSSSASAS |
| 1230 | sp|Q16740|CLPP\_HUMAN | MWPGILVGGARVASCRYPALGPRLAAHFPAQRPPQRTLQNGLALQRCLHATATRALPLIPIVVEQTGRGERAYDIYSRLLRERIVCVMGPIDDSVASLVIAQLLFLQSESNKKPIHMYINSPGGVVTAGLAIYDTMQYILNPICTWCVGQAASMGSLLLAAGTPGMRHSLPNSRIMIHQPSGGARGQATDIAIQAEEIMKLKKQLYNIYAKHTKQSLQVIESAMERDRYMSPMEAQEFGILDKVLVHPPQDGEDEPTLVQKEPVEAAPAAEPVPAST |
| 1231 | sp|P38936|CDN1A\_HUMAN | MSEPAGDVRQNPCGSKACRRLFGPVDSEQLSRDCDALMAGCIQEARERWNFDFVTETPLEGDFAWERVRGLGLPKLYLPTGPRRGRDELGGGRRPGTSPALLQGTAEEDHVDLSLSCTLVPRSGEQAEGSPGGPGDSQGRKRRQTSMTDFYHSKRRLIFSKRKP |
| 1232 | sp|P04234|CD3D\_HUMAN | MEHSTFLSGLVLATLLSQVSPFKIPIEELEDRVFVNCNTSITWVEGTVGTLLSDITRLDLGKRILDPRGIYRCNGTDIYKDKESTVQVHYRMCQSCVELDPATVAGIIVTDVIATLLLALGVFCFAGHETGRLSGAADTQALLRNDQVYQPLRDRDDAQYSHLGGNWARNK |
| 1233 | sp|Q28270|CD34\_CANLF | MLAGRGARAGGGLPRGWTALCLLSLLPFGFTNTETVITPTTVPTSTEIMSAVSENTSKREAITLTPSGTTTLYSVSQDSSGTTATISETTVHVTSTSEITLTPGTMNSSVQSQTSLAITVSFTPTNFSTSSVTLEPSLLPGNGSDPPYNSTSLVTSPTEYYTSLSPTPSRNDTPSTIKGEIKCSGVKEVKLNQGICLELNETSSCEDFKKDNEEKLTQVLCEKEPAEAGAGVCSLLLAQSEVRPHCLLLVLANKTELFSKLQLLRKHQSDLKKLGIRDFTEQDVGSHQSYSRKTLIALVTSGILLAVLGTTGYFLMNRRSWSPTGERLGEDPYYTENGGGQGYSSGPGVSPEAQGKASVNRGPQENGTGQATSRNGHSARQHMVADTEL |
| 1234 | sp|Q14CN2|CLCA4\_HUMAN | MGLFRGFVFLLVLCLLHQSNTSFIKLNNNGFEDIVIVIDPSVPEDEKIIEQIEDMVTTASTYLFEATEKRFFFKNVSILIPENWKENPQYKRPKHENHKHADVIVAPPTLPGRDEPYTKQFTECGEKGEYIHFTPDLLLGKKQNEYGPPGKLFVHEWAHLRWGVFDEYNEDQPFYRAKSKKIEATRCSAGISGRNRVYKCQGGSCLSRACRIDSTTKLYGKDCQFFPDKVQTEKASIMFMQSIDSVVEFCNEKTHNQEAPSLQNIKCNFRSTWEVISNSEDFKNTIPMVTPPPPPVFSLLKISQRIVCLVLDKSGSMGGKDRLNRMNQAAKHFLLQTVENGSWVGMVHFDSTATIVNKLIQIKSSDERNTLMAGLPTYPLGGTSICSGIKYAFQVIGELHSQLDGSEVLLLTDGEDNTASSCIDEVKQSGAIVHFIALGRAADEAVIEMSKITGGSHFYVSDEAQNNGLIDAFGALTSGNTDLSQKSLQLESKGLTLNSNAWMNDTVIIDSTVGKDTFFLITWNSLPPSISLWDPSGTIMENFTVDATSKMAYLSIPGTAKVGTWAYNLQAKANPETLTITVTSRAANSSVPPITVNAKMNKDVNSFPSPMIVYAEILQGYVPVLGANVTAFIESQNGHTEVLELLDNGAGADSFKNDGVYSRYFTAYTENGRYSLKVRAHGGANTARLKLRPPLNRAAYIPGWVVNGEIEANPPRPEIDEDTQTTLEDFSRTASGGAFVVSQVPSLPLPDQYPPSQITDLDATVHEDKIILTWTAPGDNFDVGKVQRYIIRISASILDLRDSFDDALQVNTTDLSPKEANSKESFAFKPENISEENATHIFIAIKSIDKSNLTSKVSNIAQVTLFIPQANPDDIDPTPTPTPTPTPDKSHNSGVNISTLVLSVIGSVVIVNFILSTTI |
| 1235 | sp|Q49MI3|CERKL\_HUMAN | MPWRRRRNRVSALEGGREEEAPPEAAAVPPALLTSPQQTEAAAERILLRGIFEIGRDSCDVVLSERALRWRPIQPERPAGDSKYDLLCKEEFIELKDIFSVKLKRRCSVKQQRSGTLLGITLFICLKKEQNKLKNSTLDLINLSEDHCDIWFRQFKKILAGFPNRPKSLKILLNPQSHKKEATQVYYEKVEPLLKLAGIKTDVTIMEYEGHALSLLKECELQGFDGGHRKPLFAIHWSVQRLFTGMQTLEPSVVCVGGDGSASEVAHALLLRAQKNAGMETDRILTPVRAQLPLGLIPAGSTNVLAHSLHGVPHVITATLHIIMGHVQLVDVCTFSTAGKLLRFGFSAMFGFGGRTLALAEKYRWMSPNQRRDFAVVKALAKLKAEDCEISFLPFNSSDDVQERRAQGSPKSDCNDQWQMIQGQFLNVSIMAIPCLCSVAPRGLAPNTRLNNGSMALIIARNTSRPEFIKHLKRYASVKNQFNFPFVETYTVEEVKVHPRNNTGGYNPEEEEDETASENCFPWNVDGDLMEVASEVHIRLHPRLISLYGGSMEEMIPK |
| 1236 | sp|Q1A3B0|CERS3\_MOUSE | MFQTFRKWFWSERYWLPPTIKWSDLEDHDGLVFVKASHLYITIPYAFLLMVVRYFFEKFVATPLANALGIKKTQHKIKPNAILENFFKHSTSKPSHTDIYGLAKKCNLTERQVERWLRIRQKQNKPCRLQKFQESCWRFTFYLLITMAGAVFLYDKPWAYDLWEVWNDYPRQPLLPSQYWYYILEMSFYWSLVFSLSTDIKRKDFLAHVIHHLAAISLMSFSWCANYIRSGTLVMFIHDISDIWLESAKMFSYAGWKQTCNTLFFIFTVVFFISRFIIFPFWILYCTLILPLHYLEPFFSYIFLNLQLMILQGLHVYWGYFILKMLNRCIFTQNVQDVRSDNEEEEEEEEEEEAESTKGKETEYLKNGLGTNRHLIANGQHGR |
| 1237 | sp|Q7Z7A1|CNTRL\_HUMAN | MKKGSQQKIFSKAKIPSSSHSPIPSSMSNMRSRSLSPLIGSETLPFHSGGQWCEQVEIADENNMLLDYQDHKGADSHAGVRYITEALIKKLTKQDNLALIKSLNLSLSKDGGKKFKYIENLEKCVKLEVLNLSYNLIGKIEKLDKLLKLRELNLSYNKISKIEGIENMCNLQKLNLAGNEIEHIPVWLGKKLKSLRVLNLKGNKISSLQDISKLKPLQDLISLILVENPVVTLPHYLQFTIFHLRSLESLEGQPVTTQDRQEAFERFSLEEVERLERDLEKKMIETEELKSKQTRFLEEIKNQDKLNKSLKEEAMLQKQSCEELKSDLNTKNELLKQKTIELTRACQKQYELEQELAFYKIDAKFEPLNYYPSEYAEIDKAPDESPYIGKSRYKRNMFATESYIIDSAQAVQIKKMEPDEQLRNDHMNLRGHTPLDTQLEDKEKKISAAQTRLSELHDEIEKAEQQILRATEEFKQLEEAIQLKKISEAGKDLLYKQLSGRLQLVNKLRQEALDLELQMEKQKQEIAGKQKEIKDLQIAIDSLDSKDPKHSHMKAQKSGKEQQLDIMNKQYQQLESRLDEILSRIAKETEEIKDLEEQLTEGQIAANEALKKDLEGVISGLQEYLGTIKGQATQAQNECRKLRDEKETLLQRLTEVEQERDQLEIVAMDAENMRKELAELESALQEQHEVNASLQQTQGDLSAYEAELEARLNLRDAEANQLKEELEKVTRLTQLEQSALQAELEKERQALKNALGKAQFSEEKEQENSELHAKLKHLQDDNNLLKQQLKDFQNHLNHVVDGLVRPEEVAARVDELRRKLKLGTGEMNIHSPSDVLGKSLADLQKQFSEILARSKWERDEAQVRERKLQEEMALQQEKLATGQEEFRQACERALEARMNFDKRQHEARIQQMENEIHYLQENLKSMEEIQGLTDLQLQEADEEKERILAQLRELEKKKKLEDAKSQEQVFGLDKELKKLKKAVATSDKLATAELTIAKDQLKSLHGTVMKINQERAEELQEAERFSRKAAQAARDLTRAEAEIELLQNLLRQKGEQFRLEMEKTGVGTGANSQVLEIEKLNETMERQRTEIARLQNVLDLTGSDNKGGFENVLEEIAELRREVSYQNDYISSMADPFKRRGYWYFMPPPPSSKVSSHSSQATKDSGVGLKYSASTPVRKPRPGQQDGKEGSQPPPASGYWVYSPIRSGLHKLFPSRDADSGGDSQEESELDDQEEPPFVPPPGYMMYTVLPDGSPVPQGMALYAPPPPLPNNSRPLTPGTVVYGPPPAGAPMVYGPPPPNFSIPFIPMGVLHCNVPEHHNLENEVSRLEDIMQHLKSKKREERWMRASKRQSEKEMEELHHNIDDLLQEKKSLECEVEELHRTVQKRQQQKDFIDGNVESLMTELEIEKSLKHHEDIVDEIECIEKTLLKRRSELREADRLLAEAESELSCTKEKTKNAVEKFTDAKRSLLQTESDAEELERRAQETAVNLVKADQQLRSLQADAKDLEQHKIKQEEILKEINKIVAAKDSDFQCLSKKKEKLTEELQKLQKDIEMAERNEDHHLQVLKESEVLLQAKRAELEKLKSQVTSQQQEMAVLDRQLGHKKEELHLLQGSMVQAKADLQEALRLGETEVTEKCNHIREVKSLLEELSFQKGELNVQISERKTQLTLIKQEIEKEEENLQVVLRQMSKHKTELKNILDMLQLENHELQGLKLQHDQRVSELEKTQVAVLEEKLELENLQQISQQQKGEIEWQKQLLERDKREIERMTAESRALQSCVECLSKEKEDLQEKCDIWEKKLAQTKRVLAAAEENSKMEQSNLEKLELNVRKLQQELDQLNRDKLSLHNDISAMQQQLQEKREAVNSLQEELANVQDHLNLAKQDLLHTTKHQDVLLSEQTRLQKDISEWANRFEDCQKEEETKQQQLQVLQNEIEENKLKLVQQEMMFQRLQKERESEESKLETSKVTLKEQQHQLEKELTDQKSKLDQVLSKVLAAEERVRTLQEEERWCESLEKTLSQTKRQLSEREQQLVEKSGELLALQKEADSMRADFSLLRNQFLTERKKAEKQVASLKEALKIQRSQLEKNLLEQKQENSCIQKEMATIELVAQDNHERARRLMKELNQMQYEYTELKKQMANQKDLERRQMEISDAMRTLKSEVKDEIRTSLKNLNQFLPELPADLEAILERNENLEGELESLKENLPFTMNEGPFEEKLNFSQVHIMDEHWRGEALREKLRHREDRLKAQLRHCMSKQAEVLIKGKRQTEGTLHSLRRQVDALGELVTSTSADSASSPSLSQLESSLTEDSQLGQNQEKNASAR |
| 1238 | sp|D3ZUI5|COBL\_RAT | MKARAPPPPGKPAAQNVHSEQKLPHDATLGSQQSLVHLKEALHNSTLDITVVLPSGLEKQSVVSGSRAVMDLLVELCLQNHLNPSHHVLEIWSSETQQPLSFKPNTLIGSLNAHTVFLKEKVPEEKGKPGLTKAPEKSVRLVVNYLRTQKAVMRVSPEVPLQNILPVICAKCEVSPDHVVLLRDNIAGEELELSKSLNELGIKELYAWDNRREMLRKSSLGNDETDKEKKKFLGFFKVNKRSNSKAEHLGLSGADSDEDPSKSASGGDLNGCVTTPNSPSLHSRSLTLGPSLSLGNISGMSMKSDMKKRRAPPPPSPGLLGQDKVSEKASLSSQADLQKKKRRAPAPPPPQPPPPSPVVPNRKEDKEENRKSTVGMEENYETDTSSLTSSVNGVSNHSLQEAIIPDSGVDDIPVTFIGEVSDEPFDSGLFFSGSNNAAALNQGGIASQRSHLPPYQTEQSQPFIRTNRKEPDPSLPSQDYRKRNQPILANTSENENPVGIDPRVTSFVSKPSTDDPKAKDKDKMCGSGPSEKTQTGHRVNSLPVNPRVGEDENSNSALPPWSHHGQASGGSYGLKYGLTTYKIVPPKPEMRCYDRDVSLSTGAIKIDELGNLMSPHMNGSRTISKPSAVAETEAPPIGKVKEFWRRNSMEKYLNGPAECTVKKAPSTTITATSEKPQRDETKAGFTLTTPEQQPASQEYGAPPEEDRSRPHSAVSCPVKVPAPNPTDITFLKPQRRTSSQYVASAIAKKMGPPKVHADVVRPHKKTAEQGHEEAKLARPPPAWKDSAVPNLCSEAGQCEHGTNQGSVRLPSNPGGQLPADHPKVEVNSTYGKSATHNSPAAVHRNSYFLPGRSSQRDRVSVGQSCGFHEKQTISNQKMNSTSNPSQALDKAHPAPLLLTEARDSGRILVNGSAQTPGNCEPPHSQKESTLTSYIILQTEEKPSPLSADGQNSDDALPSSIFGPKKKFKPVVQRPLPKDISLHSALMEAIHTSGGRDKLRKTAEQASEGRPKKPSYVEAESERSALLAAIRGHSGTLSLRKVSSLASEELQSFRDAALMAPGVDKPQQEDRGLPPPPALPPPSTPASQVPSASIPVSRFSIGTLSNPVNARQALMDAIRSGTGAARLRKVPLLV |
| 1239 | sp|Q07969|CD36\_RAT | MGCDRNCGLITGAVIGAVLAVFGGILMPVGDLLIEKTIKREVVLEEGTIAFKNWVKTGTTVYRQFWIFDVQNPEEVAKNSSKIKVKQRGPYTYRVRYLAKENITQDPKDSTVSFVQPNGAIFEPSLSVGTENDNFTVLNLAVAAAPHIYTNSFVQGVLNSLIKKSKSSMFQTRSLKELLWGYKDPFLSLVPYPISTTVGVFYPYNNTVDGVYKVFNGKDNISKVAIIDTYKGKRNLSYWESYCDMINGTDAASFPPFVEKSQTLRFFSSDICRSIYAVFESEVNLKGIPVYRFVLPANAFASPLQNPDNHCFCTEKVISNNCTSYGVLDIGKCKEGKPVYISLPHFLHASPDVSEPIEGLNPNEDEHRTYLDVEPITGFTLQFAKRLQVNILVKPARKIEALKNLKRPYIVPILWLNETGTIGDEKAEMFRNQVTGKIKLLGLVEMVLLGVGVVMFVAFMISYCACRSKNGK |
| 1240 | sp|Q9XF04|CLV3\_ARATH | MDSKSFLLLLLLFCFLFLHDASDLTQAHAHVQGLSNRKMMMMKMESEWVGANGEAEKAKTKGLGLHEELRTVPSGPDPLHHHVNPPRQPRNNFQLP |
| 1241 | sp|Q01149|CO1A2\_MOUSE | MLSFVDTRTLLLLAVTSCLATCQYLQSGSVRKGPTGDRGPRGQRGPAGPRGRDGVDGPMGPPGPPGSPGPPGSPAPPGLTGNFAAQYSDKGVSSGPGPMGLMGPRGPPGAVGAPGPQGFQGPAGEPGEPGQTGPAGPRGPAGSPGKAGEDGHPGKPGRPGERGVVGPQGARGFPGTPGLPGFKGVKGHSGMDGLKGQPGAQGVKGEPGAPGENGTPGQAGARGLPGERGRVGAPGPAGARGSDGSVGPVGPAGPIGSAGPPGFPGAPGPKGELGPVGNPGPAGPAGPRGEVGLPGLSGPVGPPGNPGTNGLTGAKGATGLPGVAGAPGLPGPRGIPGPAGAAGATGARGLVGEPGPAGSKGESGNKGEPGSVGAQGPPGPSGEEGKRGSPGEAGSAGPAGPPGLRGSPGSRGLPGADGRAGVMGPPGNRGSTGPAGIRGPNGDAGRPGEPGLMGPRGLPGSPGNVGPSGKEGPVGLPGIDGRPGPIGPAGPRGEAGNIGFPGPKGPSGDPGKPGERGHPGLAGARGAPGPDGNNGAQGPPGPQGVQGGKGEQGPAGPPGFQGLPGPSGTTGEVGKPGERGLPGEFGLPGPAGPRGERGTPGESGAAGPSGPIGSRGPSGAPGPDGNKGEAGAVGAPGSAGASGPGGLPGERGAAGIPGGKGEKGETGLRGDTGNTGRDGARGIPGAVGAPGPAGASGDRGEAGAAGPSGPAGPRGSPGERGEVGPAGPNGFAGPAGAAGQPGAKGEKGTKGPKGENGIVGPTGSVGAAGPSGPNGPPGPVGSRGDGGPPGMTGFPGAAGRTGPPGPSGIAGPPGPPGAAGKEGIRGPRGDQGPVGRTGETGASGPPGFVGEKGPSGEPGTAGAPGTAGPQGLLGAPGILGLPGSRGERGLPGIAGALGEPGPLGISGPPGARGPPGAVGSPGVNGAPGEAGRDGNPGSDGPPGRDGQPGHKGERGYPGSIGPTGAAGAPGPHGSVGPAGKHGNRGEPGPAGSVGPVGAVGPRGPSGPQGIRGDKGEPGDKGHRGLPGLKGYSGLQGLPGLAGLHGDQGAPGPVGPAGPRGPAGPSGPVGKDGRSGQPGPVGPAGVRGSQGSQGPAGPPGPPGPPGPPGVSGGGYDFGFEGDFYRADQPRSQPSLRPKDYEVDATLKSLNNQIETLLTPEGSRKNPARTCRDLRLSHPEWNSDYYWIDPNQGCTMDAIKVYCDFSTGETCIQAQPVNTPAKNSYSRAQANKHVWLGETINGGSQFEYNVEGVSSKEMATQLAFMRLLANRASQNITYHCKNSIAYLDEETGSLNKAVLLQGSNDVELVAEGNSRFTYSVLVDGCSKKTNEWGKTIIEYKTNKPSRLPFLDIAPLDIGGADQEFRVEVGPVCFK |
| 1242 | sp|Q86DU6|CM3A\_CONST | MMSKLGVLLTVCPLLFPLTALPPDGDQPADRPAERMQDDISSDEHPLFDKRQNCCNGGCSSKWCRDHARCCGR |
| 1243 | sp|B2ZRS9|CNL\_CLINE | MSITPGTYNITNVAYTNRLIDLTGSNPAENTLIIGHHLNKTPSGYGNQQWTLVQLPHTTIYTMQAVNPQSYVRVRDDNLVDGAALVGSQQPTPVSIESAGNSGQFRIKIPNLGLALTLPSDANSTPIVLGEVDETSTNQLWAFESVSAV |
| 1244 | sp|Q9Y696|CLIC4\_HUMAN | MALSMPLNGLKEEDKEPLIELFVKAGSDGESIGNCPFSQRLFMILWLKGVVFSVTTVDLKRKPADLQNLAPGTHPPFITFNSEVKTDVNKIEEFLEEVLCPPKYLKLSPKHPESNTAGMDIFAKFSAYIKNSRPEANEALERGLLKTLQKLDEYLNSPLPDEIDENSMEDIKFSTRKFLDGNEMTLADCNLLPKLHIVKVVAKKYRNFDIPKEMTGIWRYLTNAYSRDEFTNTCPSDKEVEIAYSDVAKRLTK |
| 1245 | sp|P61923|COPZ1\_HUMAN | MEALILEPSLYTVKAILILDNDGDRLFAKYYDDTYPSVKEQKAFEKNIFNKTHRTDSEIALLEGLTVVYKSSIDLYFYVIGSSYENELMLMAVLNCLFDSLSQMLRKNVEKRALLENMEGLFLAVDEIVDGGVILESDPQQVVHRVALRGEDVPLTEQTVSQVLQSAKEQIKWSLLR |
| 1246 | sp|Q9Z260|CLD8\_MOUSE | MATYALQMAALVLGGVGMVGTVAVTIMPQWRVSAFIESNIVVFENRWEGLWMNCMRHANIRMQCKVYDSLLALSPDLQASRGLMCAASVLAFLAFMTAILGMKCTRCTGDDENVKSRILLTAGIIFFITGLVVLIPVSWVANSIIRDFYNPLVDVALKRELGEALYIGWTTALVLIAGGALFCCVFCCTERSNSYRYSVPSHRTTQRSFHAEKRSPSIYSKSQYV |
| 1247 | sp|P17898|CPT1\_YEAST | MGFFIPQSSLGNLKLYKYQSDDRSFLSNHVLRPFWRKFATIFPLWMAPNLVTLLGFCFIIFNVLTTLYYDPYFDQESPRWTYFSYAIGLFLYQTFDACDGMHARRTGQQGPLGELFDHCIDSINTTLSMIPVCSMTGMGYTYMTIFSQFAILCSFYLSTWEEYHTHKLYLAEFCGPVEGIIVLCISFIAVGIYGPQTIWHTKVAQFSWQDFVFDVETVHLMYAFCTGALIFNIVTAHTNVVRYYESQSTKSATPSKTAENISKAVNGLLPFFAYFSSIFTLVLIQPSFISLALILSIGFSVAFVVGRMIIAHLTMQPFPMVNFPFLIPTIQLVLYAFMVYVLDYQKGSIVSALVWMGLGLTLAIHGMFINDIIYDITTFLDIYALSIKHPKEI |
| 1248 | sp|Q5BKX5|CS054\_HUMAN | MTSPCSPPLKPPISPPKTPVPQASSIPSPPLPPSPLDFSALPSPPWSQQTPVPPPLPLPPPPAATGPAPRHVFGLEKSQLLKEAFDKAGPVPKGREDVKRLLKLHKDRFRGDLRWILFCADLPSLIQEGPQCGLVALWMAGTLLSPPSGVPLERLIRVATERGYTAQGEMFSVADMGRLAQEVLGCQAKLLSGGLGGPNRDLVLQHLVTGHPLLIPYDEDFNHEPCQRKGHKAHWAVSAGVLLGVRAVPSLGYTEDPELPGLFHPVLGTPCQPPSLPEEGSPGAVYLLSKQGKSWHYQLWDYDQVRESNLQLTDFSPSRATDGRVYVVPVGGVRAGLCGQALLLTPQDCSH |
| 1249 | sp|Q41188|CSP2\_ARATH | MSGDNGGGERRKGSVKWFDTQKGFGFITPDDGGDDLFVHQSSIRSEGFRSLAAEEAVEFEVEIDNNNRPKAIDVSGPDGAPVQGNSGGGSSGGRGGFGGGRGGGRGSGGGYGGGGGGYGGRGGGGRGGSDCYKCGEPGHMARDCSEGGGGYGGGGGGYGGGGGYGGGGGGYGGGGRGGGGGGGSCYSCGESGHFARDCTSGGR |
| 1250 | sp|O61735|CLOCK\_DROME | MDDESDDKDDTKSFLCRKSRNLSEKKRRDQFNSLVNDLSALISTSSRKMDKSTVLKSTIAFLKNHNEATDRSKVFEIQQDWKPAFLSNDEYTHLMLESLDGFMMVFSSMGSIFYASESITSQLGYLPQDLYNMTIYDLAYEMDHEALLNIFMNPTPVIEPRQTDISSSNQITFYTHLRRGGMEKVDANAYELVKFVGYFRNDTNTSTGSSSEVSNGSNGQPAVLPRIFQQNPNAEVDKKLVFVGTGRVQNPQLIREMSIIDPTSNEFTSKHSMEWKFLFLDHRAPPIIGYMPFEVLGTSGYDYYHFDDLDSIVACHEELRQTGEGKSCYYRFLTKGQQWIWLQTDYYVSYHQFNSKPDYVVCTHKVVSYAEVLKDSRKEGQKSGNSNSITNNGSSKVIASTGTSSKSASATTTLRDFELSSQNLDSTLLGNSLASLGTETAATSPAVDSSPMWSASAVQPSGSCQINPLKTSRPASSYGNISSTGISPKAKRKCYFYNNRGNDSDSTSMSTDSVTSRQSMMTHVSSQSQRQRSHHREHHRENHHNQSHHHMQQQQQHQNQQQQHQQHQQLQQQLQHTVGTPKMVPLLPIASTQIMAGNACQFPQPAYPLASPQLVAPTFLEPPQYLTAIPMQPVIAPFPVAPVLSPLPVQSQTDMLPDTVVMTPTQSQLQDQLQRKHDELQKLILQQQNELRIVSEQLLLSRYTYLQPMMSMGFAPGNMTAAAVGNLGASGQRGLNFTGSNAVQPQFNQYGFALNSEQMLNQQDQQMMMQQQQNLHTQHQHNLQQQHQSHSQLQQHTQQQHQQQQQQQQQQQQQQQQQQQQQQQQQQQQQQQQQLQLQQQNDILLREDIDDIDAFLNLSPLHSLGSQSTINPFNSSSNNNNQSYNGGSNLNNGNQNNNNRSSNPPQNNNEDSLLSCMQMATESSPSINFHMGISDDGSETQSEDNKMMHTSGSNLVQQQQQQQQQQQILQQHQQQSNSFFSSNPFLNSQNQNQNQLPNDLEILPYQMSQEQSQNLFNSPHTAPGSSQ |
| 1251 | sp|P21238|CPNA1\_ARATH | MASANALSSASVLCSSRQSKLGGGNQQQGQRVSYNKRTIRRFSVRANVKEIAFDQHSRAALQAGIDKLADCVGLTLGPRGRNVVLDEFGSPKVVNDGVTIARAIELPNAMENAGAALIREVASKTNDSAGDGTTTASILAREIIKHGLLSVTSGANPVSLKRGIDKTVQGLIEELQKKARPVKGRDDIRAVASISAGNDDLIGSMIADAIDKVGPDGVLSIESSSSFETTVEVEEGMEIDRGYISPQFVTNPEKLLAEFENARVLITDQKITAIKDIIPILEKTTQLRAPLLIIAEDVTGEALATLVVNKLRGVLNVVAVKAPGFGERRKAMLQDIAILTGAEYLAMDMSLLVENATIDQLGIARKVTISKDSTTLIADAASKDELQARIAQLKKELFETDSVYDSEKLAERIAKLSGGVAVIKVGAATETELEDRKLRIEDAKNATFAAIEEGIVPGGGAALVHLSTVIPAIKETFEDADERLGADIVQKALLSPAALIAQNAGVEGEVVVEKIMFSDWENGYNAMTDTYENLFEAGVIDPAKVTRCALQNAASVAGMVLTTQAIVVDKPKPKAPAAAAPEGLMV |
| 1252 | sp|P18125|CP7A1\_RAT | MMTISLIWGIAVLVSCCIWFIVGIRRRKAGEPPLENGLIPYLGCALKFGSNPLEFLRANQRKHGHVFTCKLMGKYVHFITNSLSYHKVLCHGKYFDWKKFHYTTSAKAFGHRSIDPNDGNTTENINNTFTKTLQGDALCSLSEAMMQNLQSVMRPPGLPKSKSNAWVTEGMYAFCYRVMFEAGYLTLFGRDISKTDTQKALILNNLDNFKQFDQVFPALVAGLPIHLFKTAHKAREKLAEGLKHKNLCVRDQVSELIRLRMFLNDTLSTFDDMEKAKTHLAILWASQANTIPATFWSLFQMIRSPEAMKAASEEVSGALQSAGQELSSGGSAIYLDQVQLNDLPVLDSIIKEALRLSSASLNIRTAKEDFTLHLEDGSYNIRKDDMIALYPQLMHLDPEIYPDPLTFKYDRYLDESGKAKTTFYSNGNKLKCFYMPFGSGATICPGRLFAVQEIKQFLILMLSCFELEFVESQVKCPPLDQSRAGLGILPPLHDIEFKYKLKH |
| 1253 | sp|P56592|CP1A2\_CANLF | MALSQMATGLLLASTIFCLILWVVKAWQPRLPKGLKSPPGPWGWPLLGNVLTLGKSPHLALSRLSQRYGDVLQIRIGSTPVLVLSGLDTIRQALVRQGDDFKGRPDLYSLSLITDSQSMSFSPDSGPVWAAGRRLAQNALNTFSIASDPASSCSCYLEEHVSKEAEALLSRLQEQMAEVGRFDPYNQVLLSVANVIGAMCFGHHFSQRSEEMLPLLMSSSDFVETVSSGNPLDFFPILQYMPNSALQRFKNFNQTFVQSLQKIVQEHYQDFDERSVQDITGALLKHNEKSSRASDGHIPQEKIVNLINDIFGAGFDTVTTAISWSLMYLVANPEIQRQIQKELDTVIGRARQPRLSDRPQLPLMEAFILEIFRHTSFVPFTIPHSTTKDTTLKGFYIPKECCVFINQWQVNHDQQVWGDPFAFRPERFLTADGTTINKTLSEKVMLFGMGKRRCIGEVLAKWEIFLFLAILLQRLEFSVPAGVKVDLTPIYGLTMKHTRCEHVQARPRFSIK |
| 1254 | sp|Q92110|CP1A1\_ONCMY | MVLMILPIIGSVSVSEGLVAIVTLCLVYMLMKYKHTEIPEGLKRLPGPKPLPIIGNVLEVYNNPHLSLTAMSERYGSVFQIQIGMRPVVVLSGNETVRQALIKQGEDFAGRPDLYSFKFINDGKSLAFSTDKAGVWRARRKLAMSALRSFATLEGTTPEYSCALEEHVCKEGEYLVKQLTSVMDVSGSFDPFRHIVVSVANVICGMCFGRRYSHDDQELLGLVNMSDEFGQVVGSGNPADFIPILRYLPNRTMKRFMDINDRFNNFVQKIVSEHYESYDKDNIRDITDSLIDHCEDRKLDENANIQVSDEKIVGIVNDLFGAGFDTISTALSWAVVYLVAYPEIQERLHQELKEKVGMIRTPRLSDKINLPLLEAFILEIFRHSSFLPFTIPHCTIKDTSLNGYFIPKDTCVFINQWQVNHDPELWKEPSSFNPDRFLSADGTELNKLEGEKVLVFGMDKRRCIGEAIGRNEVYLFLAILLQRLRFQEKPGHPLDMTPEYGLTMKHKRCQLKASMRPWGQEE |
| 1255 | sp|P40094|COG3\_YEAST | MARSRKNSLVRDIASHPTIPESQTIVGLLDDSYLFDKLKKLSLAVENSDSLQRTDVSEGCSEVNGSEATTSADVKKTNKYLYYTTYLDQLNIKIDEYKVVLDQTRQVNDQLDSSIKKFRKISQDTGAFIEETKTIYEKQSKLSNLTESIPKALHYFEVLDPIMRRLNHATSPAIVKKSSFTTMLATIDESLRFLDENSDLKDAAAYRIKFKQCLIRACELISHFLTNLLKQTNQEILDKTKNKNSLTGLPSTTRDAFLYSKFYTIADTFKIQVSEIVKRSNEKAYNKYHDELNSILYECFNHYFQTRLRLLTPVIWSHIDEIVVKDKDQGLVKFIQDGKVYFQQLCADEYKLFVEFFPEKECRFKINQWFLQLCEPLYDSIRVRVLKETDICTLCDSVTLFAPYYEFEEGSEEYVKQFTDIQYDKLFEPIVQKVQARLILRVQIYVQQNILSYRPTRDVFMISNRRRKSKTSLQGGNEDATTSDDNPDPLLESYLSSFKNRSILPISPNDADDKSIDSEESTDKISQLQTYYPPLLKTLALLSKIYEMINSVVFDDLAHHVVHDCIVSLRNAYDMVIKSSAGKSDFNNLDISLAYLKNLLMLRDSIQNFNIQYTVNETYLDFSGVEGFFKSLKENGRNVLKKTKSSSILTLARELVPKVVNNMVDARTELISELRNVIKDFTESTSLELIDDTLDINSDEDLLSKNVKLRENIKARLPRIYEQILNYIDDQEIVTNLLDAVQELITQSYSKYYETITELAENGKFAKDQVADVMYLDVFTDFFAKEVADLLRNGDIDTITK |
| 1256 | sp|Q60936|COQ8A\_MOUSE | MAAMLGDAIMVAKGLAKLTQAAVETHLQNLGLGGELLLAARALQSTAVEQFSMVFGKVQGQDKHEDSYATENFEDLEAEVQFSTPQAAGTSLDFSAASSLDQSLSPSHSQGPAPAYASSGPFREAGLPGQATSPMGRVNGRLFVDHRDLFLANGIQRRSFHQDQSSVGGLTAEDIEKARQAKARPESKPHKQMLSERARERKVPVTRIGRLANFGGLAVGLGIGALAEVAKKSLRSENSTGKKAVLDSSPFLSEANAERIVSTLCKVRGAALKLGQMLSIQDDAFINPHLAKIFERVRQSADFMPLKQMTKTLNSDLGPHWRDKLEYFEERPFAAASIGQVHLARMKGGREVAMKIQYPGVAQSINSDVNNLMAVLNMSNMLPEGLFPEHLIDVLRRELTLECDYQREAAYAKKFRELLKDHPFFYVPEIVDELCSPHVLTTELISGFPLDQAEGLSQEVRNEICYNILVLCLRELFEFHVMQTDPNWSNFFYDPQQHKVALLDFGATREYDRSFTDLYIQVIRAAADQDREAVLKKSIEMKFLTGYEVKAMEDAHLDAILILGEAFASEEPFDFGTQSTTEKIHNLIPVMLKHRLIPPPEETYSLHRKMGGSFLICSKLKARFPCKAMFEEAYSNYCRMKSGLQ |
| 1257 | sp|P11511|CP19A\_HUMAN | MVLEMLNPIHYNITSIVPEAMPAATMPVLLLTGLFLLVWNYEGTSSIPGPGYCMGIGPLISHGRFLWMGIGSACNYYNRVYGEFMRVWISGEETLIISKSSSMFHIMKHNHYSSRFGSKLGLQCIGMHEKGIIFNNNPELWKTTRPFFMKALSGPGLVRMVTVCAESLKTHLDRLEEVTNESGYVDVLTLLRRVMLDTSNTLFLRIPLDESAIVVKIQGYFDAWQALLIKPDIFFKISWLYKKYEKSVKDLKDAIEVLIAEKRRRISTEEKLEECMDFATELILAEKRGDLTRENVNQCILEMLIAAPDTMSVSLFFMLFLIAKHPNVEEAIIKEIQTVIGERDIKIDDIQKLKVMENFIYESMRYQPVVDLVMRKALEDDVIDGYPVKKGTNIILNIGRMHRLEFFPKPNEFTLENFAKNVPYRYFQPFGFGPRGCAGKYIAMVMMKAILVTLLRRFHVKTLQGQCVESIQKIHDLSLHPDETKNMLEMIFTPRNSDRCLEH |
| 1258 | sp|P05093|CP17A\_HUMAN | MWELVALLLLTLAYLFWPKRRCPGAKYPKSLLSLPLVGSLPFLPRHGHMHNNFFKLQKKYGPIYSVRMGTKTTVIVGHHQLAKEVLIKKGKDFSGRPQMATLDIASNNRKGIAFADSGAHWQLHRRLAMATFALFKDGDQKLEKIICQEISTLCDMLATHNGQSIDISFPVFVAVTNVISLICFNTSYKNGDPELNVIQNYNEGIIDNLSKDSLVDLVPWLKIFPNKTLEKLKSHVKIRNDLLNKILENYKEKFRSDSITNMLDTLMQAKMNSDNGNAGPDQDSELLSDNHILTTIGDIFGAGVETTTSVVKWTLAFLLHNPQVKKKLYEEIDQNVGFSRTPTISDRNRLLLLEATIREVLRLRPVAPMLIPHKANVDSSIGEFAVDKGTEVIINLWALHHNEKEWHQPDQFMPERFLNPAGTQLISPSVSYLPFGAGPRSCIGEILARQELFLIMAWLLQRFDLEVPDDGQLPSLEGIPKVVFLIDSFKVKIKVRQAWREAQAEGST |
| 1259 | sp|O24585|CRI4\_MAIZE | MDHVPALVLAGCCFLALLPGWACGLGSMSSIAVSYGEDGPVFCGLNSDGSHLVACFGADASVLYGAPPNIPFLGLTAGDGFVCGLLLDTRQPYCWGSNSYVKSGVPQPMVEGARYSELSAGDNHLCALRAAQDGGRGSSAATSLIDCWGYNMTATHAVDEAVSTVSAGSVFNCGLFARNRTVFCWGDETVSGVVGLAPRDLHFQSIGAGGYHVCGVLENAQVFCWGRSLEMQQVVPSSAIGDGDVNIVPMDAMSTVVGGRFHACGIRSLDHQVACWGFTLHNSTSPPKGLKMYALVAGDYFTCGVPAETSLMPRCWGNSGPLALPMAVPPGICVPTACSHGYYEYVNHGEVGSIKVCKPANSRLCLPCSTGCPEGLYESSPCNATADRVCQFDCLKCVTDECLSFCLSQKRTKSRKLMAFQMRIFVAEIVFAVVLVLSVSVTTCLYVRHKLRHCQCSNRELRLAKSTAYSFRKDNMKIQPDMEDLKIRRAQEFSYEELEQATGGFSEDSQVGKGSFSCVFKGILRDGTVVAVKRAIKASDVKKSSKEFHNELDLLSRLNHAHLLNLLGYCEDGSERLLVYEFMAHGSLYQHLHGKDPNLKKRLNWARRVTIAVQAARGIEYLHGYACPPVIHRDIKSSNILIDEDHNARVADFGLSILGPADSGTPLSELPAGTLGYLDPEYYRLHYLTTKSDVYSFGVVLLEILSGRKAIDMQFEEGNIVEWAVPLIKAGDIFAILDPVLSPPSDLEALKKIASVACKCVRMRGKDRPSMDKVTTALEHALALLMGSPCIEQPILPTEVVLGSSRMHKVSQMSSNHSCSENELADGEDQGIGYRAPSWITFPSVTSSQRRKSSASEADIVGRRATDGRNVGSSIGDGLRSLEEEIAPASPQENLYLQHNF |
| 1260 | sp|Q7TN98|CPEB4\_MOUSE | MGDYGFGVLVQSNTGNKSAFPVRFHPHLQPPHHHQNATPNPAAFINNNTAANGSSAGSAWLFPAPATHNIQDEILGSEKAKSQQQEQQDPLEKQQLSPSPGQEAGILPETEKAKAEENPGDSSSENSNGKEKLRIESPVLTGFDYQEATGLGTSTQPLTSSASSLTGFSNWSAAIAPSSSTIINEDASFFHQGGVPGASANNGALLFQNFPHHVSPGFGGSFSPQIGPLSQHHPHHPHFQHHHSQHQQQRRSPASPHPPPFTHRSAAFNQLPHLANNLNKPPSPWSSYQSPSPTPSSSWSPGGGGYGGWGASQGRDHRRGLNGGITPLNSISPLKKNFASNHIQLQKYARPSSAFAPKSWMEDSLNRADNIFPFPERPRTFDMHSLESSLIDIMRAENDSIKGRLNYSYPGSDSSLLINARTYGRRRGQSSLFPMEDGFLDDGRGDQPLHSGLGSPHCFTHQNGERVERYSRKVFVGGLPPDIDEDEITASFRRFGPLIVDWPHKAESKSYFPPKGYAFLLFQDESSVQALIDACIEEDGKLYLCVSSPTIKDKPVQIRPWNLSDSDFVMDGSQPLDPRKTIFVGGVPRPLRAVELAMIMDRLYGGVCYAGIDTDPELKYPKGAGRVAFSNQQSYIAAISARFVQLQHGEIDKRVEVKPYVLDDQLCDECQGARCGGKFAPFFCANVTCLQYYCEYCWAAIHSRAGREFHKPLVKEGGDRPRHISFRWN |
| 1261 | sp|Q9VJD3|COG5\_DROME | MVTGDPVATKTPNAADSDDNDFTASMSHLTIGQQIQELSKQLQNTKEELHQQVRDKHGALLQQATHAGRFDAALNALAEDVQRVRETGHRLKNQVDTQYQQVENQTQVLGRLHDVSHLLRSAGTLLSLTAKLKATKDVLRLAEIHFELGQLIEDKELKDIDFIQQERAYVISSAQKIRNLTQMQLVTGLQERNENQVVNALKIFMNFNTLEKSLDNLLATFIADMEQSLKECFAGNDISVLNKSPTHNVSKPAPSRGPGKTPQLTTTQNFRAKFWKSLHWLLYDELFETCTQIKLLKTALEQINQFGYTSESSDQCIPQRFWQQVQQLLRKSFDECPQHVTQTLQEGLSKLLTSARGLEQRLHGEFQFDNELFAPLEVGYVSKCAANFKACLAGVDLPGNETVDNFIRVASTELSAALIDSRLTNAIANVFAACGKELCTKLEAQIKLGADSKQVVDLPNLQQQQNTQLANVLFYYKDSVRRMLSDLHVHFEKTPGTAREIISRSLEQADLLIGTILQQIMESIITTISIIVLSMHREPGLNSERMSTTGPSMYMKELQEFVNRSWSHHIALFDDKQMTKKCGHELAKRCIELFLHNVCILRPLSSCGRQRLKQDCQHMEQALKPLCPNLAELGKPSRLLRAMSLLIVQTAEELVKQTIGEDSLVPSYIVLLLLFGHAGADLQSPHTTANWSNERLIEWLDGHTAEREKLELISGALQRYRDNARRKNIQQYDEVYPMMVDYFEQALKALP |
| 1262 | sp|O55098|STK10\_MOUSE | MAFANFRRILRLSTFEKRKSREYEHVRRDLDPNDVWEIVGELGDGAFGKVYKAKNKETGALAAAKVIETKSEEELEDYIVEIEILATCDHPYIVKLLGAYYYDGKLWIMIEFCPGGAVDAIMLELDRGLTEPQIQVVCRQMLEALNFLHGKRIIHRDLKAGNVLMTLEGDIRLADFGVSAKNLKTLQKRDSFIGTPYWMAPEVVLCETMKDAPYDYKADIWSLGITLIEMAQIEPPHHELNPMRVLLKIAKSDPPTLLTPSKWSVEFRDFLKIALDKNPETRPSAAQLLQHPFVSRVTSNKALRELVAEAKAEVMEEIEDGREDGEEEDAVDAVPPLVNHTQDSANVTQPSLDSNKLLQDSSTPLPPSQPQEPVSGSCSQPSGDGPLQTTSPADGLSKNDNDLKVPVPLRKSRPLSMDARIQMDEEKQIPDQDENPSPAASKSQKANQSRPNSSALETLGGEALTNGGLELPSSVTPSHSKRASDCSNLSTSESMDYGTSLSADLSLNKETGSLSLKGSKLHNKTLKRTRRFVVDGVEVSITTSKIISEDEKKDEEMRFLRRQELRELRLLQKEEHRNQTQLSSKHELQLEQMHKRFEQEINAKKKFYDVELENLERQQKQQVEKMEQDHSVRRKEEAKRIRLEQDRDYAKFQEQLKQMKKEVKSEVEKLPRQQRKESMKQKMEEHSQKKQRLDRDFVAKQKEDLELAMRKLTTENRREICDKERDCLSKKQELLRDREAALWEMEEHQLQERHQLVKQQLKDQYFLQRHDLLRKHEKEREQMQRYNQRMMEQLKVRQQQEKARLPKIQRSDGKTRMAMYKKSLHINGAGSASEQREKIKQFSQQEEKRQKAERLQQQQKHENQMRDMVAQCESNMSELQQLQNEKCHLLVEHETQKLKALDESHNQSLKEWRDKLRPRKKALEEDLNQKKREQEMFFKLSEEAEPRPTTPSKASNFFPYSSGDAS |
| 1263 | sp|Q8WXH0|SYNE2\_HUMAN | MASSPELPTEDEQGSWGIDDLHISLQAEQEDTQKKAFTCWINSQLARHTSPSVISDLFTDIKKGHVLLDLLEVLSGQQLPRDKGSNTFQCRINIEHALTFLRNRSIKLINIHVTDIIDGNPSIILGLIWTIILHFHIEKLAQTLSCNYNQPSLDDVSVVDSSPASSPPAKKCSKVQARWQMSARKALLLWAQEQCATYESVNVTDFKSSWRNGMAFLAIIHALRPDLIDMKSVKHRSNKDNLREAFRIAEQELKIPRLLEPEDVDVVDPDEKSIMTYVAQFLQYSKDAPGTGEEAQGKVKDAMGWLTLQKEKLQKLLKDSENDTYFKKYNSLLSFMESFNEEKKSFLDVLSIKRDLDELDKDHLQLREAWDGLDHQINAWKIKLNYALPPPLHQTEAWLQEVEELMDEDLSASQDHSQAVTLIQEKMTLFKSLMDRFEHHSNILLTFENKDENHLPLVPPNKLEEMKRRINNILEKKFILLLEFHYYKCLVLGLVDEVKSKLDIWNIKYGSRESVELLLEDWHKFIEEKEFLARLDTSFQKCGEIYKNLAGECQNINKQYMMVKSDVCMYRKNIYNVKSTLQKVLACWATYVENLRLLRACFEETKKEEIKEVPFETLAQWNLEHATLNEAGNFLVEVSNDVVGSSISKELRRLNKRWRKLVSKTQLEMNLPLMIKKQDQPTFDNSGNILSKEEKATVEFSTDMSVELPENYNQNIKAGEKHEKENEEFTGQLKVAKDVEKLIGQVEIWEAEAKSVLDQDDVDTSMEESLKHLIAKGSMFDELMARSEDMLQMDIQNISSQESFQHVLTTGLQAKIQEAKEKVQINVVKLIAALKNLTDVSPDLDIRLKMEESQKELESYMMRAQQLLGQRESPGELISKHKEALIISNTKSLAKYLKAVEELKNNVTEDIKMSLEEKSRDVCAKWESLHHELSLYVQQLKIDIEKGKLSDNILKLEKQINKEKKLIRRGRTKGLIKEHEACFSEEGCLYQLNHHMEVLRELCEELPSQKSQQEVKRLLKDYEQKIERLLKCASEIHMTLQPTAGGTSKNEGTITTSENRGGDPHSEAPFAKSDNQPSTEKAMEPTMKFSLASVLRPLQEESIMEKDYSASINSLLERYDTYRDILEHHLQNNKFRITSDFSSEEDRSSSCLQAKLTDLQVIKNETDARWKEFEIISLKLENHVNDIKKPFVIKERDTLKERERELQMTLNTRMESLETALRLVLPVEKASLLLCGSDLPLHKMAIQGFHLIDADRIYQHLRNIQDSIAKQIEICNRLEEPGNFVLKELHPFDLHAMQNIILKYKTQFEGMNHRVQRSEDTLKALEDFLASLRTAKLSAEPVTDLSASDTQVAQENTLTVKNKEGEIHLMKDKAKHLDKCLKMLDMSFKDAERGDDTSCENLLDAFSIKLSETHGYGVQEEFTEENKLLEACIFKNNELLKNIQDVQSQISKIGLKDPTVPAVKHRKKSLIRLDKVLDEYEEEKRHLQEMANSLPHFKDGREKTVNQQCQNTVVLWENTKALVTECLEQCGRVLELLKQYQNFKSILTTLIQKEESVISLQASYMGKENLKKRIAEIEIVKEEFNEHLEVVDKINQVCKNLQFYLNKMKTFEEPPFEKEANIIVDRWLDINEKTEDYYENLGRALALWDKLFNLKNVIDEWTEKALQKMELHQLTEEDRERLKEELQVHEQKTSEFSRRVAEIQFLLQSSEIPLELQVMESSILNKMEHVQKCLTGESNCHALSGSTAELREDLDQAKTQIGMTESLLKALSPSDSLEIFTKLEEIQQQILQQKHSMILLENQIGCLTPELSELKKQYESVSDLFNTKKSVLQDHFSKLLNDQCKNFNDWFSNIKVNLKECFESSETKKSVEQKLQKLSDFLTLEGRNSKIKQVDSVLKHVKKHLPKAHVKELISWLVGQEFELEKMESICQARAKELEDSLQQLLRLQDDHRNLRKWLTNQEEKWKGMEEPGEKTELFCQALARKREQFESVAQLNNSLKEYGFTEEEEIIMEATCLMDRYQTLLRQLSEIEEEDKLLPTEDQSFNDLAHDVIHWIKEIKESLMVLNSSEGKMPLEERIQKIKEIILLKPEGDARIETIMKQAESSEAPLVQKTLTDISNQWDNTLHLASTYLSHQEKLLLEGEKYLQSKEDLRLMLIELKKKQEAGFALQHGLQEKKAQLKIYKKFLKKAQDLTSLLKELKSQGNYLLECTKNPSFSEEPWLEIKHLHESLLQQLQDSVQNLDGHVREHDSYQVCVTDLNTTLDNFSKEFVSFSDKPVDQIAVEEKLQKLQELENRLSLQDGTLKKILALAKSVKQNTSSVGQKIIKDDIKSLQCKQKDLENRLASAKQEMECCLNSILKSKRSTEKKGKFTLPGREKQATSDVQESTQESAAVEKLEEDWEINKDSAVEMAMSKQLSLNAQESMKNTEDERKVNELQNQPLELDTMLRNEQLEEIEKLYTQLEAKKAAIKPLEQTECLNKTETGALVLHNIGYSAQHLDNLLQALITLKKNKESQYCVLRDFQEYLAAVESSMKALLTDKESLKVGPLDSVTYLDKIKKFIASIEKEKDSLGNLKIKWENLSNHVTDMDKKLLESQIKQLEHGWEQVEQQIQKKYSQQVVEYDEFTTLMNKVQDTEISLQQQQQHLQLRLKSPEERAGNQSMIALTTDLQATKHGFSVLKGQAELQMKRIWGEKEKKNLEDGINNLKKQWETLEPLHLEAENQIKKCDIRNKMKETILWAKNLLGELNPSIPLLPDDILSQIRKCKVTHDGILARQQSVESLAEEVKDKVPSLTTYEGSDLNNTLEDLRNQYQMLVLKSTQRSQQLEFKLEERSNFFAIIRKFQLMVQESETLIIPRVETAATEAELKHHHVTLEASQKELQEIDSGISTHLQELTNIYEELNVFERLFLEDQLKNLKIRTNRIQRFIQNTCNEVEHKIKFCRQFHEKTSALQEEADSIQRNELLLNQEVNKGVKEEIYNLKDRLTAIKCCILQVLKLKKVFDYIGLNWDFSQLDQLQTQVFEKEKELEEKIKQLDTFEEEHGKYQALLSKMRAIDLQIKKMTEVVLKAPDSSPESRRLNAQILSQRIEKAKCLCDEIIKKLNENKTFDDSFKEKEILQIKLNAEENDKLYKVLQNMVLELSPKELDEKNCQDKLETSLHVLNQIKSQLQQPLLINLEIKHIQNEKDNCEAFQEQVWAEMCSIKAVTAIEKQREENSSEASDVETKLREFEDLQMQLNTSIDLRTNVLNDAYENLTRYKEAVTRAVESITSLEAIIIPYRVDVGNPEESLEMPLRKQEELESTVAHIQDLTEKLGMISSPEAKLQLQYTLQELVSKNSAMKEAFKAQETEAERYLENYKCYRKMEEDIYTNLSKMETVLGQSMSSLPLSYREALERLEQSKALVSNLISTKEELMKLRQILRLLRLRCTENDGICLLKIVSALWEKWLSLLEAAKEWEMWCEELKQEWKFVSEEIEREAIILDNLQEELPEISKTKEAATTEELSELLDCLCQYGENVEKQQLLLTLLLQRIRSIQNVPESSGAVETVPAFQEITSMKERCNKLLQKVQKNKELVQTEIQERHSFTKEIIALKNFFQQTTTSFQNMAFQDHPEKSEQFEELQSILKKGKLTFENIMEKLRIKYSEMYTIVPAEIESQVEECRKALEDIDEKISNEVLKSSPSYAMRRKIEEINNGLHNVEKMLQQKSKNIEKAQEIQKKMWDELDLWHSKLNELDSEVQDIVEQDPGQAQEWMDNLMIPFQQYQQVSQRAECRTSQLNKATVKMEEYSDLLKSTEAWIENTSHLLANPADYDSLRTLSHHASTVQMALEDSEQKHNLLHSIFMDLEDLSIIFETDELTQSIQELSNQVTALQQKIMESLPQIQRMADDVVAIESEVKSMEKRVSKIKTILLSKEIFDFSPEEHLKHGEVILENIRPMKKTIAEIVSYQVELRLPQTGMKPLPVFQRTNQLLQDIKLLENVTQEQNELLKVVIKQTNEWDEEIENLKQILNNYSAQFSLEHMSPDQADKLPQLQGEIERMEKQILSLNQRKEDLLVDLKATVLNLHQHLKQEQEGVERDRLPAVTSEEGGVAERDASERKLNRRGSMSYLAAVEEEVEESSVKSDNGDEKAEPSPQSWSSLWKHDKDMEEDRASSSSGTIVQEAYGKISTSDNSMAQILTPDSLNTEQGPECSLRPNQTEEGTTPPIEADTLDSSDAQGGLEPRVEKTRPEPTEVLHACKTQVAELELWLQQANVAVEPETLNADMQQVLEQQLVGCQAMLTEIEHKVAFLLETCKDQGLGDNGATQHEAEALSLKLKTVKCNLEKVQMMLQEKHSEDQHPTILKKSSEPEHQEALQPVNLSELESIVTERPQFSRQKDFQQQQVLELKPMEQKDFIKFIEFNAKKMWPQYCQHDNDTTQESSASNQASSPENDVPDSILSPQGQNGDKWQYLHHELSSKIKLPLPQLVEPQVSTNMGILPSVTMYNFRYPTTEELKTYTTQLEDLRQEASNLQTQENMTEEAYINLDKKLFELFLTLSQCLSSVEEMLEMPRLYREDGSGQQVHYETLALELKKLYLALSDKKGDLLKAMTWPGENTNLLLECFDNLQVCLEHTQAAAVCRSKSLKAGLDYNRSYQNEIKRLYHQLIKSKTSLQQSLNEISGQSVAEQLQKADAYTVELENAESRVAKLRDEGERLHLPYALLQEVYKLEDVLDSMWGMLRARYTELSSPFVTESQQDALLQGMVELVKIGKEKLAHGHLKQTKSKVALQAQIENHKVFFQKLVADMLLIQAYSAKILPSLLQNRETFWAEQVTEVKILEEKSRQCGMKLQSLLQKWEEFDENYASLEKDLEILISTLPSVSLVEETEERLVERISFYQQIKRNIGGKHARLYQTLNEGKQLVASVSCPELEGQIAKLEEQWLSLNKKIDHELHRLQALLKHLLSYNRDSDQLTKWLESSQHTLNYWKEQSLNVSQDLDTIRSNINNFFEFSKEVDEKSSLKTAVISIGNQLLHLKETDTATLRASLAQFEQKWTMLITQLPDIQEKLHQLQMEKLPSRKAITEMISWMNNVEHQTSDEDSVHSPSSASQVKHLLQKHKEFRMEMDYKQWIVDFVNQSLLQLSTCDVESKRYERTEFAEHLGEMNRQWHRVHGMLNRKIQHLEQLLESITESENKIQILNNWLEAQEERLKTLQKPESVISVQKLLLDCQDIENQLAIKSKALDELKQSYLTLESGAVPLLEDTASRIDELFQKRSSVLTQVNQLKTSMQSVLQEWKIYDQLYDEVNMMTIRFWYCMEHSKPVVLSLETLRCQVENLQSLQDEAESSEGSWEKLQEVIGKLKGLCPSVAEIIEEKCQNTHKRWTQVNQAIADQLQKAQSLLQLWKAYSNAHGEAAARLKQQEAKFQQLANISMSGNNLAEILPPALQDIKELQHDVQKTKEAFLQNSSVLDRLPQPAESSTHMLLPGPLHSLQRAAYLEKMLLVKANEFEFVLSQFKDFGVRLESLKGLIMHEEENLDRLHQQEKENPDSFLNHVLALTAQSPDIEHLNEVSLKLPLSDVAVKTLQNMNRQWIRATATALERCSELQGIGLNEKFLYCCEKWIQLLEKIEEALKVDVANSLPELLEQQKTYKMLEAEVSINQTIADSYVTQSLQLLDTTEIENRPEFITEFSKLTDRWQNAVQGVRQRKGDVDGLVRQWQDFTTSVENLFRFLTDTSHLLSAVKGQERFSLYQTRSLIHELKNKEIHFQRRRTTCALTLEAGEKLLLTTDLKTKESVGRRISQLQDSWKDMEPQLAEMIKQFQSTVETWDQCEKKIKELKSRLQVLKAQSEDPLPELHEDLHNEKELIKELEQSLASWTQNLKELQTMKADLTRHVLVEDVMVLKEQIEHLHRQWEDLCLRVAIRKQEIEDRLNTWVVFNEKNKELCAWLVQMENKVLQTADISIEEMIEKLQKDCMEEINLFSENKLQLKQMGDQLIKASNKSRAAEIDDKLNKINDRWQHLFDVIGSRVKKLKETFAFIQQLDKNMSNLRTWLARIESELSKPVVYDVCDDQEIQKRLAEQQDLQRDIEQHSAGVESVFNICDVLLHDSDACANETECDSIQQTTRSLDRRWRNICAMSMERRMKIEETWRLWQKFLDDYSRFEDWLKSAERTAACPNSSEVLYTSAKEELKRFEAFQRQIHERLTQLELINKQYRRLARENRTDTASRLKQMVHEGNQRWDNLQRRVTAVLRRLRHFTNQREEFEGTRESILVWLTEMDLQLTNVEHFSESDADDKMRQLNGFQQEITLNTNKIDQLIVFGEQLIQKSEPLDAVLIEDELEELHRYCQEVFGRVSRFHRRLTSCTPGLEDEKEASENETDMEDPREIQTDSWRKRGESEEPSSPQSLCHLVAPGHERSGCETPVSVDSIPLEWDHTGDVGGSSSHEEDEEGPYYSALSGKSISDGHSWHVPDSPSCPEHHYKQMEGDRNVPPVPPASSTPYKPPYGKLLLPPGTDGGKEGPRVLNGNPQQEDGGLAGITEQQSGAFDRWEMIQAQELHNKLKIKQNLQQLNSDISAITTWLKKTEAELEMLKMAKPPSDIQEIELRVKRLQEILKAFDTYKALVVSVNVSSKEFLQTESPESTELQSRLRQLSLLWEAAQGAVDSWRGGLRQSLMQCQDFHQLSQNLLLWLASAKNRRQKAHVTDPKADPRALLECRRELMQLEKELVERQPQVDMLQEISNSLLIKGHGEDCIEAEEKVHVIEKKLKQLREQVSQDLMALQGTQNPASPLPSFDEVDSGDQPPATSVPAPRAKQFRAVRTTEGEEETESRVPGSTRPQRSFLSRVVRAALPLQLLLLLLLLLACLLPSSEEDYSCTQANNFARSFYPMLRYTNGPPPT |
| 1264 | sp|Q64332|SYN2\_MOUSE | MMNFLRRRLSDSSFIANLPNGYMTDLQRPEPQQPPPAPGPGAATASAATSAASPGPERRPPPAQAPAPQPAPQPAPTPSVGSSFFSSLSQAVKQTAASAGLVDAPAPSAASRKAKVLLVVDEPHTDWAKCFRGKKILGDYDIKVEQAEFSELNLVAHADGTYAVDMQVLRNGTKVVRSFRPDFVLIRQHAFGMAENEDFRHLVIGMQYAGLPSINSLESIYNFCDKPWVFAQMVAIFKTLGGEKFPLIEQTYYPNHREMLTLPTFPVVVKIGHAHSGMGKVKVENHYDFQDIASVVALTQTYATAEPFIDAKYDIRVQKIGNNYKAYMRTSISGNWKTNTGSAMLEQIAMSDRYKLWVDACSEMFGGLDICAVKAVHGKDGKDYIFEVMDCSMPLIGEHQVEDRQLITDLVISKMNQLLSRTPALSPQRPLTTQQPQSGTLKEPDSSKTPPQRPPPQGGPGQPQGMQPPGKVLPPRRLPSGPSLPSSSSSSSSSSSSSSAPQRPGGPTTTHGDASSSSNSLAEAQAPQAAPAQKPQPHPQLNKSQSLTNAFSFSESSFFRSSANEDEAKAETIRSLRKSFASLFSD |
| 1265 | sp|Q39233|SYP21\_ARATH | MSFQDLEAGTRSPAPNRFTGGRQQRPSSRGDPSQEVAAGIFRISTAVNSFFRLVNSIGTPKDTLELRDKLQKTRLQISELVKNTSAKLKEASEADLHGSASQIKKIADAKLAKDFQSVLKEFQKAQRLAAEREITYTPVVTKEIPTSYNAPELDTESLRISQQQALLLQSRRQEVVFLDNEITFNEAIIEEREQGIREIEDQIRDVNGMFKDLALMVNHQGNIVDDISSNLDNSHAATTQATVQLRKAAKTQRSNSSLTCLLILIFGIVLLIVIIVVLV |
| 1266 | sp|D2CVN6|TEB1\_TETTS | MKLTKGGSYILKKVDRKQFYQDEEIVMQIKKILGQKTTDCKQYIKCECIDGLGDEALIYFEMLANQNQHLQKNDVIMIQDYLNDKTQNDKIVVLVTRFQFCKASHVQPKTAQKESIQLLNTEKTIIQKSKITKNPAEEVLKFIEVNEKDNSSNSEDMIIEQQKQEIKNNQKEKQSINGFNLEDSYSNISDITNFGGKSNFNIGSLSDQLSKQTLLISQLQVGKNRFSFKFEGRVVYKSSTFQNQQDSKYFFITAQDANNQEINLSFWQKVDQSYQTLKVGQYYYFIGGEVKQFKNNLELKFKFGDYQIIPKETLSANYVQPLALQPSKQFGNDSIGDSDYSIHNLIEKEESIAQKGYNGQKNNKYRQNNNNSKHTLLISEVLKTSKQYLSVLAQVVDIQSSDKNIRLKICDNSCNQELKVVIFPDLCYEWRDKFSINKWYYFNEFVRQIYNDEVQLKNNIHSSIKESDDQRKVITYNQEQGVFKKSISINSNDSFEIKPKISYKNNSNQEQRIYSSIEEIIQQAQASEIGQKKEFYVYGNLVSIQMKNKLYYYRCTCQGKSVLKYHGDSFFCESCQQFINPQVHLMLRAFVQDSTGTIPVMIFDQQSSQLINQIDPSIHVQEAGQYVKNCIENGQEEIIRQLFSKLDFARFIFEIQFENKEFNNEQEIAYKVLKIEKENIKEESKYLLKKLEHLINNNQNN |
| 1267 | sp|Q86VP1|TAXB1\_HUMAN | MTSFQEVPLQTSNFAHVIFQNVAKSYLPNAHLECHYTLTPYIHPHPKDWVGIFKVGWSTARDYYTFLWSPMPEHYVEGSTVNCVLAFQGYYLPNDDGEFYQFCYVTHKGEIRGASTPFQFRASSPVEELLTMEDEGNSDMLVVTTKAGLLELKIEKTMKEKEELLKLIAVLEKETAQLREQVGRMERELNHEKERCDQLQAEQKGLTEVTQSLKMENEEFKKRFSDATSKAHQLEEDIVSVTHKAIEKETELDSLKDKLKKAQHEREQLECQLKTEKDEKELYKVHLKNTEIENTKLMSEVQTLKNLDGNKESVITHFKEEIGRLQLCLAEKENLQRTFLLTTSSKEDTCFLKEQLRKAEEQVQATRQEVVFLAKELSDAVNVRDRTMADLHTARLENEKVKKQLADAVAELKLNAMKKDQDKTDTLEHELRREVEDLKLRLQMAADHYKEKFKECQRLQKQINKLSDQSANNNNVFTKKTGNQQKVNDASVNTDPATSASTVDVKPSPSAAEADFDIVTKGQVCEMTKEIADKTEKYNKCKQLLQDEKAKCNKYADELAKMELKWKEQVKIAENVKLELAEVQDNYKELKRSLENPAERKMEGQNSQSPQCFKTCSEQNGYVLTLSNAQPVLQYGNPYASQETRDGADGAFYPDEIQRPPVRVPSWGLEDNVVCSQPARNFSRPDGLEDSEDSKEDENVPTAPDPPSQHLRGHGTGFCFDSSFDVHKKCPLCELMFPPNYDQSKFEEHVESHWKVCPMCSEQFPPDYDQQVFERHVQTHFDQNVLNFD |
| 1268 | sp|P49848|TAF6\_HUMAN | MAEEKKLKLSNTVLPSESMKVVAESMGIAQIQEETCQLLTDEVSYRIKEIAQDALKFMHMGKRQKLTTSDIDYALKLKNVEPLYGFHAQEFIPFRFASGGGRELYFYEEKEVDLSDIINTPLPRVPLDVCLKAHWLSIEGCQPAIPENPPPAPKEQQKAEATEPLKSAKPGQEEDGPLKGKGQGATTADGKGKEKKAPPLLEGAPLRLKPRSIHELSVEQQLYYKEITEACVGSCEAKRAEALQSIATDPGLYQMLPRFSTFISEGVRVNVVQNNLALLIYLMRMVKALMDNPTLYLEKYVHELIPAVMTCIVSRQLCLRPDVDNHWALRDFAARLVAQICKHFSTTTNNIQSRITKTFTKSWVDEKTPWTTRYGSIAGLAELGHDVIKTLILPRLQQEGERIRSVLDGPVLSNIDRIGADHVQSLLLKHCAPVLAKLRPPPDNQDAYRAEFGSLGPLLCSQVVKARAQAALQAQQVNRTTLTITQPRPTLTLSQAPQPGPRTPGLLKVPGSIALPVQTLVSARAAAPPQPSPPPTKFIVMSSSSSAPSTQQVLSLSTSAPGSGSTTTSPVTTTVPSVQPIVKLVSTATTAPPSTAPSGPGSVQKYIVVSLPPTGEGKGGPTSHPSPVPPPASSPSPLSGSALCGGKQEAGDSPPPAPGTPKANGSQPNSGSPQPAP |
| 1269 | sp|Q92750|TAF4B\_HUMAN | MPAGLTEPAGAAPPAAVSASGTVTMAPAGALPVRVESTPVALGAVTKAPVSVCVEPTASQPLRSPVGTLVTKVAPVSAPPKVSSGPRLPAPQIVAVKAPNTTTIQFPANLQLPPGTVLIKSNSGPLMLVSPQQTVTRAETTSNITSRPAVPANPQTVKICTVPNSSSQLIKKVAVTPVKKLAQIGTTVVTTVPKPSSVQSVAVPTSVVTVTPGKPLNTVTTLKPSSLGASSTPSNEPNLKAENSAAVQINLSPTMLENVKKCKNFLAMLIKLACSGSQSPEMGQNVKKLVEQLLDAKIEAEEFTRKLYVELKSSPQPHLVPFLKKSVVALRQLLPNSQSFIQQCVQQTSSDMVIATCTTTVTTSPVVTTTVSSSQSEKSIIVSGATAPRTVSVQTLNPLAGPVGAKAGVVTLHSVGPTAATGGTTAGTGLLQTSKPLVTSVANTVTTVSLQPEKPVVSGTAVTLSLPAVTFGETSGAAICLPSVKPVVSSAGTTSDKPVIGTPVQIKLAQPGPVLSQPAGIPQAVQVKQLVVQQPSGGNEKQVTTISHSSTLTIQKCGQKTMPVNTIIPTSQFPPASILKQITLPGNKILSLQASPTQKNRIKENVTSCFRDEDDINDVTSMAGVNLNEENACILATNSELVGTLIQSCKDEPFLFIGALQKRILDIGKKHDITELNSDAVNLISQATQERLRGLLEKLTAIAQHRMTTYKASENYILCSDTRSQLKFLEKLDQLEKQRKDLEEREMLLKAAKSRSNKEDPEQLRLKQKAKELQQLELAQIQHRDANLTALAAIGPRKKRPLESGIEGLKDNLLASGTSSLTATKQLHRPRITRICLRDLIFCMEQEREMKYSRALYLALLK |
| 1270 | sp|P16035|TIMP2\_HUMAN | MGAAARTLRLALGLLLLATLLRPADACSCSPVHPQQAFCNADVVIRAKAVSEKEVDSGNDIYGNPIKRIQYEIKQIKMFKGPEKDIEFIYTAPSSAVCGVSLDVGGKKEYLIAGKAEGDGKMHITLCDFIVPWDTLSTTQKKSLNHRYQMGCECKITRCPMIPCYISSPDECLWMDWVTEKNINGHQAKFFACIKRSDGSCAWYRGAAPPKQEFLDIEDP |
| 1271 | sp|Q46731|TN5P\_ECOLX | MITSALHRAADWAKSVFSSAALGDPRRTARLVNVAAQLAKYSGKSITISSEGSEAMQEGAYRFIRNPNVSAEAIRKAGAMQTVKLAQEFPELLAIEDTTSLSYRHQVAEELGKLGSIQDKSRGWWVHSVLLLEATTFRTVGLLHQEWWMRPDDPADADEKESGKWLAAAATSRLRMGSMMSNVIAVCDREADIHAYLQDKLAHNERFVVRSKHPRKDVESGLYLYDHLKNQPELGGYQISIPQKGVVDKRGKRKNRPARKASLSLRSGRITLKQGNITLNAVLAEEINPPKGETPLKWLLLTSEPVESLAQALRVIDIYTHRWRIEEFHKAWKTGAGAERQRMEEPDNLERMVSILSFVAVRLLQLRESFTLPQALRAQGLLKEAEHVESQSAETVLTPDECQLLGYLDKGKRKRKEKAGSLQWAYMAIARLGGFMDSKRTGIASWGALWEGWEALQSKLDGFLAAKDLMAQGIKI |
| 1272 | sp|Q9VMA7|TGO1\_DROME | MRLTNEKATMQPQLSDLALVLGLLICCLPTLTWAATLSDKRLCADPKCEQIISMGIAKITYAIGGEGLISFKINSPIRVLSKSAGSNMQLWGVDINGRRGYANKDFIMEKKILVRDKDLLYEVPVVGPGSPVQSVETPVQSVETTVQPVLNASESTDDLATTTTSPLEIAVDSIVVEHDKLQDQQVPDPTAASKAQVQVIEGTELPLEAIAATTEGSIVPETAADPQEATNLDSTVVDTKEPQALNSEAIKLQEEPKAQQPATEAEKPPPLPQAINAELEDADDFDYGDDETDDDSQQGSQDNESIVEIANDNKSINESIELKPLSVAQLKKTDKVEDSKDETKEKHAEMEVSKQEDSSLPTETLNVTALEEQIDQKEFPKQVLDAAVELKSSDPLPVEEVTETVAEPPRTIVEDKINEEIVPVSAKIQAKPATVNPTEPIVAQSDAEIKAPSESVISSTTPAPVVEEAPQKADPVGLPPLFEKKNFENPNNYYKQLQEEQEKQRLVAEAEEQKRLQEEADQQKRLQEEAALNKRLLEEAEQQKRLQEEAEQQKRLQEEAELNKRLLEEAEKQKRLHEESEQLQRSSEEAEPQLSVQEANMQQLNDSVDSQSNEIVDNNNRQQPEQYQQHHHHTESAFNHPSTASHTTPTPDAESPYAAVQEETTEASQTDNHREGVGYVEPVALPATASPVSEVPIKEDAAGFGLFATIVDTVNNFIGKDPQSDPADSSDELHRILYPGRPEVPPSQRKAEDFAPADVDGYCARFQAKDEHCHRSISLDNFVEVMADKLVDHSQLLLCVVIAAISSLFFMFAYYCFCNSSQEGALLSKLNHLERSLLASHKENLIIKHDLMTTRTKLASIEDNSFGSNDMVADLKKQLESELYEKAKLQEQVGSLERDLDNAAEAGLELNKMLSEVLNGQNGDEAFMSTVDELQRQLNDQEKIIIEINNSLAEKSRENSELQYTFTEATTRLNSELKTLQEDNYELEMEKSKLQTRLQEIQAETESELAKALEARNYEMQKLQNQIVELTVKWEREHGDLQTSLAKIEALEDCLKAVGKDAIHNVQELITSAKTRGELNAVHKKLVELQSKVEQEEAHKQRLESQLQQSSQDVEQLKQDFNQSERDKLEAQTRLEVLSGYFREKENDLKKELSLQETKWLQHQGENASTVETQTLMKNEIQTLKSQNDELRAEIEAQIASHKAQMGTLENRAHESWLAARQSERRCEEALAEAASLRRKLTTMASGGGGVGGDPGVMEAIAANGTSVLGAELKTAPSPLPLPGSPLLNMPNPLPFLAAPFSPFMGLPPPFLPPTGAGGARPPPLGRMRSPPPSSRGDRDRERYSDYSDYDDYDDDEEDDRGMDRRRRHSGSWGRRHRGSYSHSPRTYRSLSPSDSRYNYNDTETDFSPPPSPPPVPSGRSATSRPYSEV |
| 1273 | sp|Q8LBM2|TIF5A\_ARATH | MKLQQNCDLELRLFPTSYDSDSSDTTSVVESTSSGNPQPNEESQRITIFYNGKMCFSSDVTHLQARSIISIASREMKTKSSSNGSDPPNKSTSFHHNQLPNPKASMKKSLQSFLQKRKIRIQATSPYHSRR |
| 1274 | sp|Q9H2L4|TMM60\_HUMAN | MRMSLAQRVLLTWLFTLLFLIMLVLKLDEKAPWNWFLIFIPVWIFDTILLVLLIVKMAGRCKSGFDPRHGSHNIKKKAWYLIAMLLKLAFCLALCAKLEQFTTMNLSYVFIPLWALLAGALTELGYNVFFVRD |
| 1275 | sp|Q9LTR2|TGD2\_ARATH | MIGNPVIQVPSSLMPSSSMIACPRVSPNGVPYLPPKPRTRHLVVRAASNSDAAHGQPSSDGGKNPLTVVLDVPRNIWRQTLKPLSDFGFGKRSIWEGGVGLFIVSGATLLALSWAWLRGFQMRSKFRKYQTVFELSHASGICTGTPVRIRGVTVGTIIRVNPSLKNIEAVAEIEDDKIIIPRNSLVEVNQSGLLMETMIDIMPRNPIPEPSVGPLHPECGKEGLIVCDRQTIKGVQGVSLDELVGIFTRIGREVEAIGVANTYSLAERAASVIEEARPLLKKIQAMAEDAQPLLSEFRDSGLLKEVECLTRSLTQASDDLRKVNSSIMTPENTELIQKSIYTLVYTLKNVESISSDILGFTGDEATRKNLKLLIKSLSRLL |
| 1276 | sp|Q8H0U5|TIC62\_ARATH | MEGTCFLRGQPLTTIPSLPSRKGFLLQRWKTNRIVRFSGFKNHSVSGKSRSFDLSLRASGPIRASSVVTEASPTNLNSKEEDLVFVAGATGKVGSRTVRELLKLGFRVRAGVRSAQRAGSLVQSVKEMKLQNTDEGTQPVEKLEIVECDLEKKDSIQPALGNASVIICCIGASEKEISDITGPYRIDYLATKNLVDAATSAKVNNFILVTSLGTNKFGFPAAILNLFWGVLCWKRKAEEALIESGLNYAIVRPGGMERPTDAYKETHNLTLALDDTLFGGQVSNLQVAELLACMAKNPQLSFSKIVEVVAETTAPLTPIEKLLEKIPSKRPYVPPPKASVATKEVKPVPTKPVTQEPTAPKEDEAPPKEKNVKPRPLSPYASYEDLKPPTSPIPNSTTSVSPAKSKEVDATQVPVEANVVPVPDSTSNVPVVEVKQVEEKKERPLSPYARYENLKPPSSPSPTASSTRKSDSLSPGPTDSDTDKSSTVAKTVTETAVATSVTETSVATSVPETAVATSVTETAAPATSKMRPLSPYAIYADLKPPTSPTPASTGPKEAASVEDNSELPGGNNDVLKTVDGNLNTIPPSTPEAVPVVSSAIDTSLASGDNTAQPKPRPLSPYTMYADMKPPTSPLPSPVTNH |
| 1277 | sp|P37173|TGFR2\_HUMAN | MGRGLLRGLWPLHIVLWTRIASTIPPHVQKSVNNDMIVTDNNGAVKFPQLCKFCDVRFSTCDNQKSCMSNCSITSICEKPQEVCVAVWRKNDENITLETVCHDPKLPYHDFILEDAASPKCIMKEKKKPGETFFMCSCSSDECNDNIIFSEEYNTSNPDLLLVIFQVTGISLLPPLGVAISVIIIFYCYRVNRQQKLSSTWETGKTRKLMEFSEHCAIILEDDRSDISSTCANNINHNTELLPIELDTLVGKGRFAEVYKAKLKQNTSEQFETVAVKIFPYEEYASWKTEKDIFSDINLKHENILQFLTAEERKTELGKQYWLITAFHAKGNLQEYLTRHVISWEDLRKLGSSLARGIAHLHSDHTPCGRPKMPIVHRDLKSSNILVKNDLTCCLCDFGLSLRLDPTLSVDDLANSGQVGTARYMAPEVLESRMNLENVESFKQTDVYSMALVLWEMTSRCNAVGEVKDYEPPFGSKVREHPCVESMKDNVLRDRGRPEIPSFWLNHQGIQMVCETLTECWDHDPEARLTAQCVAERFSELEHLDRLSGRSCSEEKIPEDGSLNTTK |
| 1278 | sp|P25445|TNR6\_HUMAN | MLGIWTLLPLVLTSVARLSSKSVNAQVTDINSKGLELRKTVTTVETQNLEGLHHDGQFCHKPCPPGERKARDCTVNGDEPDCVPCQEGKEYTDKAHFSSKCRRCRLCDEGHGLEVEINCTRTQNTKCRCKPNFFCNSTVCEHCDPCTKCEHGIIKECTLTSNTKCKEEGSRSNLGWLCLLLLPIPLIVWVKRKEVQKTCRKHRKENQGSHESPTLNPETVAINLSDVDLSKYITTIAGVMTLSQVKGFVRKNGVNEAKIDEIKNDNVQDTAEQKVQLLRNWHQLHGKKEAYDTLIKDLKKANLCTLAEKIQTIILKDITSDSENSNFRNEIQSLV |
| 1279 | sp|Q6UXZ0|TMIG1\_HUMAN | MAWKSSVIMQMGRFLLLVILFLPREMTSSVLTVNGKTENYILDTTPGSQASLICAVQNHTREEELLWYREEGRVDLKSGNKINSSSVCVSSISENDNGISFTCRLGRDQSVSVSVVLNVTFPPLLSGNDFQTVEEGSNVKLVCNVKANPQAQMMWYKNSSLLDLEKSRHQIQQTSESFQLSITKVEKPDNGTYSCIAKSSLKTESLDFHLIVKDKTVGVPIEPIIAACVVIFLTLCFGLIARRKKIMKLCMKDKDPHSETAL |
| 1280 | sp|Q5Q0E6|TO6BL\_ARATH | MENNAPVPKLLLQLISSAFQRCRLAEDLCRLSVLLDQSTERDPPITCISIADTGIGCNLEEFQNLRCPREFNGAKIWDGLLSVKTTCFTDDEVYYYHINLDEYIANKRLKRQPSQAKNGAKFSGTEVSLSVFGSMDVLVAPIIGFFQKIIVLQILNVTLDLMVKQGTSPGNQTQYVFAVNADKTPCFTASNLERLKSGLEDYVLRHANCLDTMCDYCFSDREHLKVGSGTVCQEDKHKRVGGTMEVVIVISDLLESTQHCSRSCNGKTEVLYFDNFLPSPVPHLALSALKKIDWKKYGLILANVNDQDGHVFLEWDNFPSYVQIQIALHWYHNQYPTRQKNGPGISLLKKGIKNALDNLKAKHEGFLLSSHSRKICSYVPDLARSIAGLIFSSTDLDFQGDCLSVLGFQTQEVERDTVENYIQRKIVTVIGMNERKPQKDQEAAPFLFFDGESETSFFEDEEVEGEYYSSSLE |
| 1281 | sp|P20366|TKN1\_HUMAN | MKILVALAVFFLVSTQLFAEEIGANDDLNYWSDWYDSDQIKEELPEPFEHLLQRIARRPKPQQFFGLMGKRDADSSIEKQVALLKALYGHGQISHKRHKTDSFVGLMGKRALNSVAYERSAMQNYERRR |
| 1282 | sp|Q8GXN9|TGH\_ARATH | MGSDEEDFVFHGTPIEREEEIASRKKKAVAGASGNLRTLPAWKQEVTDEEGRRRFHGAFTGGYSAGYYNTVGSKEGWAPQSFTSSRQNRAGARKQSISDFLDEDEKADMEGKSLSASSQFDTFGFTAAEHSRKHAEKEQHERPSAIPGPVPDELVAPVSESIGVKLLLKMGWRRGHSIKEVRASSDARREARKAFLAFYTDENTKETPDSLVSETEVETSLGEDIKISESTPVYVLNPKQDLHGLGYDPFKHAPEFREKKRSRMSANKEVGFRKPLSMKESLFGPKSGKIAPGFGIGALEELDVEDEDVYAGYDFDQTYVIEDEQPARQSNDNRLRLTSKEHDVLPGFGAAKNSDYSMERFNPPIIPKDFVARHKFSGPLEAETKPTVSAPPEVPPPADNNLKLLIEGFATFVSRCGKLYEDLSREKNQSNQLFDFLREGNGHDYYARRLWEEQQKRKDQSKLTLDVKVSPTVQKMTAETRGSLLGEKPLQRSLKETDTSASSGGSFQFPTNLSDTFTKSASSQEAADAVKPFKDDPAKQERFEQFLKEKYKGGLRTTDSNRVNSMSESARAQERLDFEAAAEAIEKGKAYKEVRRATEQPLDFLAGGLQFTSGGTEQIKDTGVVDMKSSKTYPKREEFQWRPSPLLCKRFDLPDPFMGKLPPAPRARNKMDSLVFLPDTVKAASARQVSESQVPKKETSIEEPEVEVEVENVERPVDLYKAIFSDDSEDDEDQPMNGKIQEGQEKKNEAAATTLNRLIAGDFLESLGKELGFEVPMEEEIKSRSKPEDSSDKRLDRPGLKEKVEEKTSSLTLGSEEEKSRKKREKSPGKRSGGNDLSSSESSGDERRRKRYNKKDRHRNDSESDSSSDYHSRDKQGSRSRSKRRESSREKRSSHKKHSKHRRTKKSSSSRYSSDEEQKESRREKKRRRD |
| 1283 | sp|Q15399|TLR1\_HUMAN | MTSIFHFAIIFMLILQIRIQLSEESEFLVDRSKNGLIHVPKDLSQKTTILNISQNYISELWTSDILSLSKLRILIISHNRIQYLDISVFKFNQELEYLDLSHNKLVKISCHPTVNLKHLDLSFNAFDALPICKEFGNMSQLKFLGLSTTHLEKSSVLPIAHLNISKVLLVLGETYGEKEDPEGLQDFNTESLHIVFPTNKEFHFILDVSVKTVANLELSNIKCVLEDNKCSYFLSILAKLQTNPKLSNLTLNNIETTWNSFIRILQLVWHTTVWYFSISNVKLQGQLDFRDFDYSGTSLKALSIHQVVSDVFGFPQSYIYEIFSNMNIKNFTVSGTRMVHMLCPSKISPFLHLDFSNNLLTDTVFENCGHLTELETLILQMNQLKELSKIAEMTTQMKSLQQLDISQNSVSYDEKKGDCSWTKSLLSLNMSSNILTDTIFRCLPPRIKVLDLHSNKIKSIPKQVVKLEALQELNVAFNSLTDLPGCGSFSSLSVLIIDHNSVSHPSADFFQSCQKMRSIKAGDNPFQCTCELGEFVKNIDQVSSEVLEGWPDSYKCDYPESYRGTLLKDFHMSELSCNITLLIVTIVATMLVLAVTVTSLCSYLDLPWYLRMVCQWTQTRRRARNIPLEELQRNLQFHAFISYSGHDSFWVKNELLPNLEKEGMQICLHERNFVPGKSIVENIITCIEKSYKSIFVLSPNFVQSEWCHYELYFAHHNLFHEGSNSLILILLEPIPQYSIPSSYHKLKSLMARRTYLEWPKEKSKRGLFWANLRAAINIKLTEQAKK |
| 1284 | sp|Q9Y6Q6|TNR11\_HUMAN | MAPRARRRRPLFALLLLCALLARLQVALQIAPPCTSEKHYEHLGRCCNKCEPGKYMSSKCTTTSDSVCLPCGPDEYLDSWNEEDKCLLHKVCDTGKALVAVVAGNSTTPRRCACTAGYHWSQDCECCRRNTECAPGLGAQHPLQLNKDTVCKPCLAGYFSDAFSSTDKCRPWTNCTFLGKRVEHHGTEKSDAVCSSSLPARKPPNEPHVYLPGLIILLLFASVALVAAIIFGVCYRKKGKALTANLWHWINEACGRLSGDKESSGDSCVSTHTANFGQQGACEGVLLLTLEEKTFPEDMCYPDQGGVCQGTCVGGGPYAQGEDARMLSLVSKTEIEEDSFRQMPTEDEYMDRPSQPTDQLLFLTEPGSKSTPPFSEPLEVGENDSLSQCFTGTQSTVGSESCNCTEPLCRTDWTPMSSENYLQKEVDSGHCPHWAASPSPNWADVCTGCRNPPGEDCEPLVGSPKRGPLPQCAYGMGLPPEEEASRTEARDQPEDGADGRLPSSARAGAGSGSSPGGQSPASGNVTGNSNSTFISSGQVMNFKGDIIVVYVSQTSQEGAAAAAEPMGRPVQEETLARRDSFAGNGPRFPDPCGGPEGLREPEKASRPVQEQGGAKA |
| 1285 | sp|Q9QUK6|TLR4\_MOUSE | MMPPWLLARTLIMALFFSCLTPGSLNPCIEVVPNITYQCMDQKLSKVPDDIPSSTKNIDLSFNPLKILKSYSFSNFSELQWLDLSRCEIETIEDKAWHGLHHLSNLILTGNPIQSFSPGSFSGLTSLENLVAVETKLASLESFPIGQLITLKKLNVAHNFIHSCKLPAYFSNLTNLVHVDLSYNYIQTITVNDLQFLRENPQVNLSLDMSLNPIDFIQDQAFQGIKLHELTLRGNFNSSNIMKTCLQNLAGLHVHRLILGEFKDERNLEIFEPSIMEGLCDVTIDEFRLTYTNDFSDDIVKFHCLANVSAMSLAGVSIKYLEDVPKHFKWQSLSIIRCQLKQFPTLDLPFLKSLTLTMNKGSISFKKVALPSLSYLDLSRNALSFSGCCSYSDLGTNSLRHLDLSFNGAIIMSANFMGLEELQHLDFQHSTLKRVTEFSAFLSLEKLLYLDISYTNTKIDFDGIFLGLTSLNTLKMAGNSFKDNTLSNVFANTTNLTFLDLSKCQLEQISWGVFDTLHRLQLLNMSHNNLLFLDSSHYNQLYSLSTLDCSFNRIETSKGILQHFPKSLAFFNLTNNSVACICEHQKFLQWVKEQKQFLVNVEQMTCATPVEMNTSLVLDFNNSTCYMYKTIISVSVVSVIVVSTVAFLIYHFYFHLILIAGCKKYSRGESIYDAFVIYSSQNEDWVRNELVKNLEEGVPRFHLCLHYRDFIPGVAIAANIIQEGFHKSRKVIVVVSRHFIQSRWCIFEYEIAQTWQFLSSRSGIIFIVLEKVEKSLLRQQVELYRLLSRNTYLEWEDNPLGRHIFWRRLKNALLDGKASNPEQTAEEEQETATWT |
| 1286 | sp|Q5PQX1|TOIP1\_RAT | MAGERWRAEGLGEGWAIYVTPRAPIREGRRRLATQNGDGSDAPAYETHPSRHGRREVRFSEEPPEVYGDFEPRAAKERSPGERRTPPEKFRSDSAKEEVRESAYNLRSRQRRQRGPQEAEEMKTRRSTRLEQHSQQAQQQLSPATSGRGLRDAQSLSEDRGEDEPSSQPVTSQTVSKKTVRTPETSVMSEDPISNLCRPPLRSPRPDASIVQHINPFEEGETEDDLESSYSDVTIRIRSRDSVESRDEAAVAAGHHPDSLWGLPHSRGDFTAHENQPSLLPTGCQKNPQEWVEQAVRMRTRMAYNNIQKSDFGNQSPSTSRQQAAVQPPDESSVKIKWWLLILVAALAMGIYWFFHTPVVETTAVQEFQNQMKQLQSKYQSQDEKLWKRGTTFLEKHLNSSLPRPQPAILLLTAAQDAAEVLKCLSEQIADAYSSFRSVRAIRIDGAGKAAQDSDLVKHEVDQELTDGFRNGQNAAVVHRFESLPAGSTLIFYKYCDHENAAFKDVALVLTVLLEEQTLEASLGLKEIEEKVRDFLKVKFTSSDTANSYNHMDPDKLNGLWSRISHLVLPVQPENALKAGSCL |
| 1287 | sp|P83510|TNIK\_MOUSE | MASDSPARSLDEIDLSALRDPAGIFELVELVGNGTYGQVYKGRHVKTGQLAAIKVMDVTGDEEEEIKQEINMLKKYSHHRNIATYYGAFIKKNPPGMDDQLWLVMEFCGAGSVTDLIKNTKGNTLKEEWIAYICREILRGLSHLHQHKVIHRDIKGQNVLLTENAEVKLVDFGVSAQLDRTVGRRNTFIGTPYWMAPEVIACDENPDATYDFKSDLWSLGITAIEMAEGAPPLCDMHPMRALFLIPRNPAPRLKSKKWSKKFQSFIESCLVKNHSQRPATEQLMKHPFIRDQPNERQVRIQLKDHIDRTKKKRGEKDETEYEYSGSEEEEEENDSGEPSSILNLPGESTLRRDFLRLQLANKERSEALRRQQLEQQQRENEEHKRQLLAERQKRIEEQKEQRRRLEEQQRREKELRKQQEREQRRHYEEQMRREEERRRAEHEQEYKRKQLEEQRQAERLQRQLKQERDYLVSLQHQRQEQRPLEKKPLYHYKEGMSPSEKPAWAKEVEERSRLNRQSSPAMPHKVANRISDPNLPPRSESFSISGVQPARTPPMLRPVDPQIPQLVAVKSQGPALTASQSVHEQPTKGLSGFQEALNVTSHRVEMPRQNSDPTSENPPLPTRIEKFDRSSWLRQEEDIPPKVPQRTTSISPALARKNSPGNGSALGPRLGSQPIRASNPDLRRTEPVLESSLQRTSSGSSSSSSTPSSQPSSQGGSQPGSQAGSSERSRVRANSKSEGSPVLPHEPSKVKPEESRDITRPSRPADLTALAKELRELRIEETNRPLKKVTDYSSSSEESESSEEEEEDGESETHDGTVAVSDIPRLIPTGAPGNNEQYNMGMVGTHGLETSHADTFGGSISREGTLMIRETAEEKKRSGHSDSNGFAGHINLPDLVQQSHSPAGTPTEGLGRVSTHSQEMDSGAEYGIGSSTKASFTPFVDPRVYQTSPTDEDEEDDESSAAALFTSELLRQEQAKLNEARKISVVNVNPTNIRPHSDTPEIRKYKKRFNSEILCAALWGVNLLVGTENGLMLLDRSGQGKVYNLINRRRFQQMDVLEGLNVLVTISGKKNKLRVYYLSWLRNRILHNDPEVEKKQGWITVGDLEGCIHYKVVKYERIKFLVIALKNAVEIYAWAPKPYHKFMAFKSFADLQHKPLLVDLTVEEGQRLKVIFGSHTGFHVIDVDSGNSYDIYIPSHIQGNITPHAIVILPKTDGMEMLVCYEDEGVYVNTYGRITKDVVLQWGEMPTSVAYIHSNQIMGWGEKAIEIRSVETGHLDGVFMHKRAQRLKFLCERNDKVFFASVRSGGSSQVFFMTLNRNSMMNW |
| 1288 | sp|P29613|TPIS\_DROME | MSRKFCVGGNWKMNGDQKSIAEIAKTLSSAALDPNTEVVIGCPAIYLMYARNLLPCELGLAGQNAYKVAKGAFTGEISPAMLKDIGADWVILGHSERRAIFGESDALIAEKAEHALAEGLKVIACIGETLEEREAGKTNEVVARQMCAYAQKIKDWKNVVVAYEPVWAIGTGQTATPDQAQEVHAFLRQWLSDNISKEVSASLRIQYGGSVTAANAKELAKKPDIDGFLVGGASLKPEFVDIINARQ |
| 1289 | sp|Q8VIG6|TRAIP\_MOUSE | MPIRALCTICSDFFDHSRDVAAIHCGHTFHLQCLIQWFETAPSRTCPQCRIQVGKKTIINKLFFDLAQEEENVLDAEFLKNELDSVKAQLSQKDREKRDSQAIIDTLRDTLEERNATVESLQNALNKAEMLCSTLKKQMKFLEQRQDETKQAREEAHRLKCKMKTMEQIELLLQSQRSEVEEMIRDMGVGQSAVEQLAVYCVSLKKEYENLKEARKATGELADRLKKDLVSSRSKLKTLNTELDQAKLELRSAQKDLQSADQEITSLRKKLMILQGTLSLPPATNETVSRLVFESPAPVEMMNPRLHQPPFGDEIDLNTTFDVNTPPTQTSGSQHCLPKKLCLERARSPMQNVLKKVHKVSKPESQLSLGGQRCVGELDEELAGAFPLFIRNAVLGQKQPNRTTAESRCSTDVVRIGFDGLGGRTKFIQPRDTTIIRPVPVKSKAKSKQKVRIKTVSSASQPKLDTFLCQ |
| 1290 | sp|Q9C040|TRIM2\_HUMAN | MASEGTNIPSPVVRQIDKQFLICSICLERYKNPKVLPCLHTFCERCLQNYIPAHSLTLSCPVCRQTSILPEKGVAALQNNFFITNLMDVLQRTPGSNAEESSILETVTAVAAGKPLSCPNHDGNVMEFYCQSCETAMCRECTEGEHAEHPTVPLKDVVEQHKASLQVQLDAVNKRLPEIDSALQFISEIIHQLTNQKASIVDDIHSTFDELQKTLNVRKSVLLMELEVNYGLKHKVLQSQLDTLLQGQESIKSCSNFTAQALNHGTETEVLLVKKQMSEKLNELADQDFPLHPRENDQLDFIVETEGLKKSIHNLGTILTTNAVASETVATGEGLRQTIIGQPMSVTITTKDKDGELCKTGNAYLTAELSTPDGSVADGEILDNKNGTYEFLYTVQKEGDFTLSLRLYDQHIRGSPFKLKVIRSADVSPTTEGVKRRVKSPGSGHVKQKAVKRPASMYSTGKRKENPIEDDLIFRVGTKGRNKGEFTNLQGVAASTNGKILIADSNNQCVQIFSNDGQFKSRFGIRGRSPGQLQRPTGVAVHPSGDIIIADYDNKWVSIFSSDGKFKTKIGSGKLMGPKGVSVDRNGHIIVVDNKACCVFIFQPNGKIVTRFGSRGNGDRQFAGPHFAAVNSNNEIIITDFHNHSVKVFNQEGEFMLKFGSNGEGNGQFNAPTGVAVDSNGNIIVADWGNSRIQVFDGSGSFLSYINTSADPLYGPQGLALTSDGHVVVADSGNHCFKVYRYLQ |
| 1291 | sp|Q96B21|TM45B\_HUMAN | MANFKGHALPGSFFLIIGLCWSVKYPLKYFSHTRKNSPLHYYQRLEIVEAAIRTLFSVTGILAEQFVPDGPHLHLYHENHWIKLMNWQHSTMYLFFAVSGIVDMLTYLVSHVPLGVDRLVMAVAVFMEGFLFYYHVHNRPPLDQHIHSLLLYALFGGCVSISLEVIFRDHIVLELFRTSLIILQGTWFWQIGFVLFPPFGTPEWDQKDDANLMFITMCFCWHYLAALSIVAVNYSLVYCLLTRMKRHGRGEIIGIQKLNSDDTYQTALLSGSDEE |
| 1292 | sp|Q8NG06|TRI58\_HUMAN | MAWAPPGERLREDARCPVCLDFLQEPVSVDCGHSFCLRCISEFCEKSDGAQGGVYACPQCRGPFRPSGFRPNRQLAGLVESVRRLGLGAGPGARRCARHGEDLSRFCEEDEAALCWVCDAGPEHRTHRTAPLQEAAGSYQVKLQMALELMRKELEDALTQEANVGKKTVIWKEKVEMQRQRFRLEFEKHRGFLAQEEQRQLRRLEAEERATLQRLRESKSRLVQQSKALKELADELQERCQRPALGLLEGVRGVLSRSKAVTRLEAENIPMELKTACCIPGRRELLRKFQVDVKLDPATAHPSLLLTADLRSVQDGEPWRDVPNNPERFDTWPCILGLQSFSSGRHYWEVLVGEGAEWGLGVCQDTLPRKGETTPSPENGVWALWLLKGNEYMVLASPSVPLLQLESPRCIGIFLDYEAGEISFYNVTDGSYIYTFNQLFSGLLRPYFFICDATPLILPPTTIAGSGNWASRDHLDPASDVRDDHL |
| 1293 | sp|Q9UKU6|TRHDE\_HUMAN | MGEDDAALRAGSRGLSDPWADSVGVRPRTTERHIAVHKRLVLAFAVSLVALLAVTMLAVLLSLRFDECGASATPGADGGPSGFPERGGNGSLPGSARRNHHAGGDSWQPEAGGVASPGTTSAQPPSEEEREPWEPWTQLRLSGHLKPLHYNLMLTAFMENFTFSGEVNVEIACRNATRYVVLHASRVAVEKVQLAEDRAFGAVPVAGFFLYPQTQVLVVVLNRTLDAQRNYNLKIIYNALIENELLGFFRSSYVLHGERRFLGVTQFSPTHARKAFPCFDEPIYKATFKISIKHQATYLSLSNMPVETSVFEEDGWVTDHFSQTPLMSTYYLAWAICNFTYRETTTKSGVVVRLYARPDAIRRGSGDYALHITKRLIEFYEDYFKVPYSLPKLDLLAVPKHPYAAMENWGLSIFVEQRILLDPSVSSISYLLDVTMVIVHEICHQWFGDLVTPVWWEDVWLKEGFAHYFEFVGTDYLYPGWNMEKQRFLTDVLHEVMLLDGLASSHPVSQEVLQATDIDRVFDWIAYKKGAALIRMLANFMGHSVFQRGLQDYLTIHKYGNAARNDLWNTLSEALKRNGKYVNIQEVMDQWTLQMGYPVITILGNTTAENRIIITQQHFIYDISAKTKALKLQNNSYLWQIPLTIVVGNRSHVSSEAIIWVSNKSEHHRITYLDKGSWLLGNINQTGYFRVNYDLRNWRLLIDQLIRNHEVLSVSNRAGLIDDAFSLARAGYLPQNIPLEIIRYLSEEKDFLPWHAASRALYPLDKLLDRMENYNIFNEYILKQVATTYIKLGWPKNNFNGSLVQASYQHEELRREVIMLACSFGNKHCHQQASTLISDWISSNRNRIPLNVRDIVYCTGVSLLDEDVWEFIWMKFHSTTAVSEKKILLEALTCSDDRNLLNRLLNLSLNSEVVLDQDAIDVIIHVARNPHGRDLAWKFFRDKWKILNTRYGEALFMNSKLISGVTEFLNTEGELKELKNFMKNYDGVAAASFSRAVETVEANVRWKMLYQDELFQWLGKALRH |
| 1294 | sp|P48561|TRF5\_YEAST | MTRLKAKYSPTKGKRKEDKHTKRMRKSSFTRTQKMLEVFNDNRSHFNKYESLAIDVEDDDTFGNLVLMENDKSDVDIPVIEEVTSSEDEQRAESSKRNNSLEDNQDFIAFSDSSEDETEQIKEDDDERSSFLLTDEHEVSKLTSQQSLNTESACNVEYPWIRNHCHSKQRRIADWLTSEIKDFVHYISPSKNEIKCRNRTIDKLRRAVKELWSDADLHVFGSFATDLYLPGSDIDCVVNSRNRDKEDRNYIYELARHLKNKGLAIRMEVIVKTRVPIIKFIEPQSQLHIDVSFERTNGLEAAKLIREWLRDSPGLRELVLIIKQFLHSRRLNNVHTGGLGGFTVICLVYSFLNMHPRIKSNDIDVLDNLGVLLIDFFELYGKNFGYDDVAISISDGYASYIPKSCWRTLEPSRSKFSLAIQDPGDPNNNISRGSFNMKDIKKAFAGAFELLVNKCWELNSATFKDRVGKSILGNVIKYRGQKRDFNDERDLVQNKAIIENERYHKRRTRIVQEDLFINDTEDLPVEEIYKLDEPAKKKQKAKKDKREGEIKKSAIPSPPPDFGVSRSKLKRKVKKTDQGSLLHQNNLSIDDLMGLSENDQESDQDQKGRDTPSGQDEKSPLETKTVDAQTRRDYWLSKGQAL |
| 1295 | sp|Q61510|TRI25\_MOUSE | MAELNPLAEELSCSVCLELFKEPVTTPCGHNFCMSCLDETWVVQGPPYRCPQCRKVYQVRPQLQKNTVMCAVVEQFLQAEQARTPVDDWTPPARFSASSAATQVACDHCLTEIAVKTCLVCMASFCQEHLRPHFDSPAFQDHPLQSPIRDLLRRKCTQHNRLRELFCPEHGECICHICLVEHKTCSPTTLSQASADLEYKLRNKLTIMHSHINGATKALEDVRSKQQCVQDSMKRKMEQLRQEYMEMKAVIDAAETSSLRKLKEEEKRVYGKFDTIYQVLVKKKSEMQKLKAEVELIMDKGDEFEFLEKAAKLQGESTKPVYIPKIDLDHDLIMGIYQGAADLKSELKHSIKKLQKKSEEHNGSGNKGDQTQSTFKPVQPSKKTIQEKKTKKTPVAPGPPSHFSPNKLPTFGAPGQSLDSKATSPDAAPKASAAQPDSVGVKAKVLENFLTKSRTELLEYFVKVIFDYNTAHNKVSLSNKYTTASVSDGLQHYRSHPQRFTYCSQVLGLHCYKNGIHYWEVELQKNNFCGVGICYGSMERQGPESRLGRNPNSWCVEWFNNKISAWHNNVEKTLPSTKATRVGVLLNCDHGFVIFFAVTEKVHLMYKFKVDFTEALYPAFWVFSAGTTLSICSK |
| 1296 | sp|Q5M731|TPS1L\_ARATH | MNSLGGIRSWPANWRSTTASMTTTESVRKVPQVLTVAGSDSGAGAGIQADLKVCAARGVYCASVITAVTAQNTRGVQSVHLLPPEFISEQLKSVLSDFEFDVVKTGMLPSTEIVEVLLQNLSDFPVRALVVDPVMVSTSGHVLAGSSILSIFRERLLPIADIITPNVKEASALLDGFRIETVAEMRSAAKSLHEMGPRFVLVKGGDLPDSSDSVDVYFDGKEFHELRSPRIATRNTHGTGCTLASCIAAELAKGSSMLSAVKVAKRFVDNALDYSKDIVIGSGMQGPFDHFFGLKKDPQSSRCSIFNPDDLFLYAVTDSRMNKKWNRSIVDALKAAIEGGATIIQLREKEAETREFLEEAKACIDICRSHGVSLLINDRIDIALACDADGVHVGQSDMPVDLVRSLLGPDKIIGVSCKTPEQAHQAWKDGADYIGSGGVFPTNTKANNRTIGLDGLKEVCEASKLPVVAIGGIGISNAGSVMQIDAPNLKGVAVVSALFDQDCVLTQAKKLHKTLKESKRGI |
| 1297 | sp|P06612|TOP1\_ECOLI | MGKALVIVESPAKAKTINKYLGSDYVVKSSVGHIRDLPTSGSAAKKSADSTSTKTAKKPKKDERGALVNRMGVDPWHNWEAHYEVLPGKEKVVSELKQLAEKADHIYLATDLDREGEAIAWHLREVIGGDDARYSRVVFNEITKNAIRQAFNKPGELNIDRVNAQQARRFMDRVVGYMVSPLLWKKIARGLSAGRVQSVAVRLVVEREREIKAFVPEEFWEVDASTTTPSGEALALQVTHQNDKPFRPVNKEQTQAAVSLLEKARYSVLEREDKPTTSKPGAPFITSTLQQAASTRLGFGVKKTMMMAQRLYEAGYITYMRTDSTNLSQDAVNMVRGYISDNFGKKYLPESPNQYASKENSQEAHEAIRPSDVNVMAESLKDMEADAQKLYQLIWRQFVACQMTPAKYDSTTLTVGAGDFRLKARGRILRFDGWTKVMPALRKGDEDRILPAVNKGDALTLVELTPAQHFTKPPARFSEASLVKELEKRGIGRPSTYASIISTIQDRGYVRVENRRFYAEKMGEIVTDRLEENFRELMNYDFTAQMENSLDQVANHEAEWKAVLDHFFSDFTQQLDKAEKDPEEGGMRPNQMVLTSIDCPTCGRKMGIRTASTGVFLGCSGYALPPKERCKTTINLVPENEVLNVLEGEDAETNALRAKRRCPKCGTAMDSYLIDPKRKLHVCGNNPTCDGYEIEEGEFRIKGYDGPIVECEKCGSEMHLKMGRFGKYMACTNEECKNTRKILRNGEVAPPKEDPVPLPELPCEKSDAYFVLRDGAAGVFLAANTFPKSRETRAPLVEELYRFRDRLPEKLRYLADAPQQDPEGNKTMVRFSRKTKQQYVSSEKDGKATGWSAFYVDGKWVEGKK |
| 1298 | sp|O42130|TOP2A\_CHICK | MELLDSPAPLRPLHDNPRLPKADGAQKRLSVERIYQKKTQLEHILLRPDTYIGSVETVTQQMWVFDEDVGLNCRDVTFVPGLYKIFDEILVNAADNKQRDKSMSCIKVTIDPENNTISVWNNGKGIPVVEHKVEKVYVPALIFGQLLTSSNYDDDEKKVTGGRNGYGAKLCNIFSTKFTVETACREYKKLFKQTWTDNMGKAGEMTLKHFDGEDYTCVTFQPDLSKFKMTILDKDIVALMSRRAYDIAGSTKDVKVFLNGKRLPVKGFRSYVDLYLKDKVDETGNALKVIHEEVNSRWEVCLTLSEKGFQQVSFVNSIATTKGGRHVDYVADQIVTKLIDVVKKKNKNGVGVKPFQVKNHMWIFVNSLIENPTFDSQTKENMTLQAKSFGSTCKLSEKFIKGAVGCGIVESILNWVKFKAQTQLNKKCSAVKHTKIKGVPKLDDANDAGSKNSIDCTLILTEGDSAKTLAVSGLGVVGRDKYGVFPLRGKMLNVREASHKQIMENAEINNIIKIVGLQYKKNYEDRESLKSLRYGKIMIMTDQDQDGSHIKGLLINFIHHNWPSLLRHNFLEEFITPIIKVSKNKEEIPFYSIPEFEEWKSSTQNYNSWKIKYYKGLGTSTSKEAKEYFADMARHRIGFKYSGPEDDAAITLAFSKKKVEERKEWLTNFMEDRRQRNVHGLPEDYLYGKDTNYLTYNDFINKELVLFSNSDNERSIPSLVDGLKPGQRKVLFTCFKRNDKREVKGAQLAGSVAEMSSYHHGEASLMMTIINLAQNFVGSNNLNLLQPIGQFGTRLHGGKDSASPRYIFTMLSPLARLLFPPVDDNVLRFLYDDNQRVEPEWYMPIIPMVLINGAEGIGTGWSCKIPNFDIRETVNNIRCLLDGKEPLPMLPSYKNFKGTIDELGPNQYVISGEVSILDSTTIEITELPVRTWTQTYKEQVLEPMLNGTEKTPPLITDYKEYHTDTTVKFVVKMSEEKLAEAEAVGLHKVFKLQTNLTCNSMVLFDHVGFLKKYESPQDILKEFFELRLRYYGLRKEWLIGMLGAESAKLNNQARFILEKIDGKIVIENKPKKELIQVLIQRGYESDPVKAWKELQNKEEEEGDESGEESAAATGPDFNYLLNMPLWYLTKEKKDELCKQRDNKDKELEDLKHKSPSDLWKEDLAAFVEELDAVEAKQMQDEMAGITGKPLKVKGGKQGGKQKVTKAQLAEVMPSPHGIRVVPRVTAEMKAEAEKRIKKKIKSEKNESDEKQEGNSSGDKEPSSLKQRLAQKRKAEQGTKRQTTLPFKPIKKMKRNPWSDSESDSESDDFEVPSKRERVVRQAAAKIKPMVNSDSDADLTSSDEDSEYQENSEGNTDSDTTSKKKPPKAKAVPKEKKGKAPKEKPLPDAVPVRVQNVAAESASQDPAAPPVSVPRAQAVPKKPAAAKKGSTAKDNQPSIMDILTKKKAAPKAPRRAQREESPPSEATAAVAKKPGPPRGRKATKRLTSSSDSDSDFGSRPSKSVAAKKSKRDDDDSYSIDLTADSPAAAAPRTRPGRLKKPVQYLESSDEDDMF |
| 1299 | sp|Q38HM4|TRI63\_MOUSE | MDYKSGLIPDGNAMENLEKQLICPICLEMFTKPVVILPCQHNLCRKCANDIFQAANPYWTNRGGSVSMSGGRFRCPSCRHEVIMDRHGVYGLQRNLLVENIIDIYKQECSSRPLQKGSHPMCKEHEDEKINIYCLTCEVPTCSLCKVFGAHQACEVAPLQSIFQGQKTELSNCISMLVAGNDRVQTIISQLVDSCRVTKENSHQVKEELSQKFDTLYAILDEKKSELLQRITQEQEEKLGFIEALILQYREQLEKSTKLVETAIQSLDEPGGATFLSSAKQLIKSNVEASKGCQLGKTEQGFENMDYFTLDLEHIAEALRAIDFGTDEEEEEFTEEEADEEEGVTTEGHQ |
| 1300 | sp|Q91Z63|TRI63\_RAT | MDYKSGLIPDGNAMENLEKQLICPICLEMFTKPVVILPCQHNLCRKCANDIFQAANPYWTNRGGSVSMSGGRFRCPSCRHEVIMDRHGVYGLQRNLLVENIIDIYKQECSSRPLQKGSHPMCKEHEDEKINIYCLTCEVPTCSLCKVFGAHQACEVAPLQSIFQGQKTELSNCISMLVAGNDRVQTIISQLEDSCRVTKENSHQVKEELSHKFDALYAILDEKKSELLQRITQEQEEKLDFIEALILQYREQLEKSTKLVETAIQSLDEPGGATFLLSAKPLIKSIVEASKGCQLGKTEQGFENMDYFTLNLEHIAEALRAIDFGTDEEEEFTEEEEEEDQEEGVSTEGHQ |
| 1301 | sp|Q9BRZ2|TRI56\_HUMAN | MVSHGSSPSLLEALSSDFLACKICLEQLRAPKTLPCLHTYCQDCLAQLADGGRVRCPECRETVPVPPEGVASFKTNFFVNGLLDLVKARACGDLRAGKPACALCPLVGGTSTGGPATARCLDCADDLCQACADGHRCTRQTHTHRVVDLVGYRAGWYDEEARERQAAQCPQHPGEALRFLCQPCSQLLCRECRLDPHLDHPCLPLAEAVRARRPGLEGLLAGVDNNLVELEAARRVEKEALARLREQAARVGTQVEEAAEGVLRALLAQKQEVLGQLRAHVEAAEEAARERLAELEGREQVARAAAAFARRVLSLGREAEILSLEGAIAQRLRQLQGCPWAPGPAPCLLPQLELHPGLLDKNCHLLRLSFEEQQPQKDGGKDGAGTQGGEESQSRREDEPKTERQGGVQPQAGDGAQTPKEEKAQTTREEGAQTLEEDRAQTPHEDGGPQPHRGGRPNKKKKFKGRLKSISREPSPALGPNLDGSGLLPRPIFYCSFPTRMPGDKRSPRITGLCPFGPREILVADEQNRALKRFSLNGDYKGTVPVPEGCSPCSVAALQSAVAFSASARLYLINPNGEVQWRRALSLSQASHAVAALPSGDRVAVSVAGHVEVYNMEGSLATRFIPGGKASRGLRALVFLTTSPQGHFVGSDWQQNSVVICDGLGQVVGEYKGPGLHGCQPGSVSVDKKGYIFLTLREVNKVVILDPKGSLLGDFLTAYHGLEKPRVTTMVDGRYLVVSLSNGTIHIFRVRSPDS |
| 1302 | sp|O88413|TULP3\_MOUSE | MEAARCAPGPRGDSAFDDETLRLRQLKLDNQRALLEKKQRKKRLEPLMVQPNPEARLRRLKPRGSEEHTPLVDPQMPRSDVILHGIDGPAAFLKPEAQDLESKPQVLSVGSPAPEEGTEGSADGESPEETAPKPDLQEILQKHGILSSVNYDEEPDKEEDEGGNLSSPSARSEESAAASQKAASETGASGVTAQQGDAQLGEVENLEDFAYSPAPRGVTVKCKVTRDKKGMDRGLFPTYYMHLEREENRKIFLLAGRKRKKSKTSNYLVSTDPTDLSREGESYIGKLRSNLMGTKFTVYDHGVNPVKAQGLVEKAHTRQELAAICYETNVLGFKGPRKMSVIIPGMNMNHERIPFRPRNEHESLLSKWQNKSMENLIELHNKAPVWNDDTQSYVLNFHGRVTQASVKNFQIVHGNDPDYIVMQFGRVADDVFTLDYNYPLCALQAFAIGLSSFDSKLACE |
| 1303 | sp|O95881|TXD12\_HUMAN | METRPRLGATCLLGFSFLLLVISSDGHNGLGKGFGDHIHWRTLEDGKKEAAASGLPLMVIIHKSWCGACKALKPKFAESTEISELSHNFVMVNLEDEEEPKDEDFSPDGGYIPRILFLDPSGKVHPEIINENGNPSYKYFYVSAEQVVQGMKEAQERLTGDAFRKKHLEDEL |
| 1304 | sp|Q07932|TX1AB\_MYRPI | MKLSCLLLTLTIIFVLTIVHAPNVEAKDLADPESEAVGFADAFGEADAVGEADPNAGLGSVFGRLARILGRVIPKVAKKLGPKVAKVLPKVMKEAIPMAVEMAKSQEEQQPQ |
| 1305 | sp|Q08282|TYW4\_YEAST | MKNLTTIKQTNKNVKQERRKKYADLAIQGTNNSSIASKRSVELLYLPKLSSANNFQMDKNNKLLEYFKFFVPKKIKRSPCINRGYWLRLFAIRSRLNSIIEQTPQDKKIVVVNLGCGYDPLPFQLLDTNNIQSQQYHDRVSFIDIDYSDLLKIKIELIKTIPELSKIIGLSEDKDYVDDSNVDFLTTPKYLARPCDLNDSKMFSTLLNECQLYDPNVVKVFVAEVSLAYMKPERSDSIIEATSKMENSHFIILEQLIPKGPFEPFSKQMLAHFKRNDSPLQSVLKYNTIESQVQRFNKLGFAYVNVGDMFQLWESADEATKKELLKVEPFDELEEFHLFCHHYVLCHATNYKEFAFTQGFLFDRSISEINLTVDEDYQLLECECPINRKFGDVDVAGNDVFYMGGSNPYRVNEILQLSIHYDKIDMKNIEVSSSEVPVARMCHTFTTISRNNQLLLIGGRKAPHQGLSDNWIFDMKTREWSMIKSLSHTRFRHSACSLPDGNVLILGGVTEGPAMLLYNVTEEIFKDVTPKDEFFQNSLVSAGLEFDPVSKQGIILGGGFMDQTTVSDKAIIFKYDAENATEPITVIKKLQHPLFQRYGSQIKYITPRKLLIVGGTSPSGLFDRTNSIISLDPLSETLTSIPISRRIWEDHSLMLAGFSLVSTSMGTIHIIGGGATCYGFGSVTNVGLKLIAIAK |
| 1306 | sp|Q5TGU0|TSPO2\_HUMAN | MRLQGAIFVLLPHLGPILVWLFTRDHMSGWCEGPRMLSWCPFYKVLLLVQTAIYSVVGYASYLVWKDLGGGLGWPLALPLGLYAVQLTISWTVLVLFFTVHNPGLALLHLLLLYGLVVSTALIWHPINKLAALLLLPYLAWLTVTSALTYHLWRDSLCPVHQPQPTEKSD |
| 1307 | sp|Q01534|TSPY1\_HUMAN | MRPEGSLTYRVPERLRQGFCGVGRAAQALVCASAKEGTAFRMEAVQEGAAGVESEQAALGEEAVLLLDDIMAEVEVVAEEEGLVERREEAQRAQQAVPGPGPMTPESAPEELLAVQVELEPVNAQARKAFSRQREKMERRRKPHLDRRGAVIQSVPGFWANVIANHPQMSALITDEDEDMLSYMVSLEVGEEKHPVHLCKIMLFFRSNPYFQNKVITKEYLVNITEYRASHSTPIEWYPDYEVEAYRRRHHNSSLNFFNWFSDHNFAGSNKIAEILCKDLWRNPLQYYKRMKPPEEGTETSGDSQLLS |
| 1308 | sp|O95801|TTC4\_HUMAN | MEQPGQDPTSDDVMDSFLEKFQSQPYRGGFHEDQWEKEFEKVPLFMSRAPSEIDPRENPDLACLQSIIFDEERSPEEQAKTYKDEGNDYFKEKDYKKAVISYTEGLKKKCADPDLNAVLYTNRAAAQYYLGNFRSALNDVTAARKLKPCHLKAIIRGALCHLELKHFAEAVNWCDEGLQIDAKEKKLLEMRAKADKLKRIEQRDVRKANLKEKKERNQNEALLQAIKARNIRLSEAACEDEDSASEGLGELFLDGLSTENPHGARLSLDGQGRLSWPVLFLYPEYAQSDFISAFHEDSRFIDHLMVMFGETPSWDLEQKYCPDNLEVYFEDEDRAELYRVPAKSTLLQVLQHQRYFVKALTPAFLVCVGSSPFCKNFLRGRKVYQIR |
| 1309 | sp|P62326|TYB4\_BOVIN | MSDKPDMAEIEKFDKSKLKKTETQEKNPLPSKETIEQEKQAGES |
| 1310 | sp|Q8NG11|TSN14\_HUMAN | MHYYRYSNAKVSCWYKYLLFSYNIIFWLAGVVFLGVGLWAWSEKGVLSDLTKVTRMHGIDPVVLVLMVGVVMFTLGFAGCVGALRENICLLNFFCGTIVLIFFLELAVAVLAFLFQDWVRDRFREFFESNIKSYRDDIDLQNLIDSLQKANQCCGAYGPEDWDLNVYFNCSGASYSREKCGVPFSCCVPDPAQKVVNTQCGYDVRIQLKSKWDESIFTKGCIQALESWLPRNIYIVAGVFIAISLLQIFGIFLARTLISDIEAVKAGHHF |
| 1311 | sp|P53804|TTC3\_HUMAN | MDNFAEGDFTVADYALLEDCPHVDDCVFAAEFMSNDYVRVTQLYCDGVGVQYKDYIQSERNLEFDICSIWCSKPISVLQDYCDAIKINIFWPLLFQHQNSSVISRLHPCVDANNSRASEINLKKLQHLELMEDIVDLAKKVANDSFLIGGLLRIGCKIENKILAMEEALNWIKYAGDVTILTKLGSIDNCWPMLSIFFTEYKYHITKIVMEDCNLLEELKTQSCMDCIEEGELMKMKGNEEFSKERFDIAIIYYTRAIEYRPENYLLYGNRALCFLRTGQFRNALGDGKRATILKNTWPKGHYRYCDALSMLGEYDWALQANIKAQKLCKNDPEGIKDLIQQHVKLQKQIEDLQGRTANKDPIKAFYENRAYTPRSLSAPIFTTSLNFVEKERDFRKINHEMANGGNQNLKVADEALKVDDCDCHPEFSPPSSQPPKHKGKQKSRNNESEKFSSSSPLTLPADLKNILEKQFSKSSRAAHQDFANIMKMLRSLIQDGYMALLEQRCRSAAQAFTELLNGLDPQKIKQLNLAMINYVLVVYGLAISLLGIGQPEELSEAENQFKRIIEHYPSEGLDCLAYCGIGKVYLKKNRFLEALNHFEKARTLIYRLPGVLTWPTSNVIIEESQPQKIKMLLEKFVEECKFPPVPDAICCYQKCHGYSKIQIYITDPDFKGFIRISCCQYCKIEFHMNCWKKLKTTTFNDKIDKDFLQGICLTPDCEGVISKIIIFSSGGEVKCEFEHKVIKEKVPPRPILKQKCSSLEKLRLKEDKKLKRKIQKKEAKKLAQERMEEDLRESNPPKNEEQKETVDNVQRCQFLDDRILQCIKQYADKIKSGIQNTAMLLKELLSWKVLSTEDYTTCFSSRNFLNEAVDYVIRHLIQENNRVKTRIFLHVLSELKEVEPKLAAWIQKLNSFGLDATGTFFSRYGASLKLLDFSIMTFLWNEKYGHKLDSIEGKQLDYFSEPASLKEARCLIWLLEEHRDKFPALHSALDEFFDIMDSRCTVLRKQDSGEAPFSSTKVKNKSKKKKPKDSKPMLVGSGTTSVTSNNEIITSSEDHSNRNSDSAGPFAVPDHLRQDVEEFEALYDQHSNEYVVRNKKLWDMNPKQKCSTLYDYFSQFLEEHGPLDMSNKMFSAEYEFFPEETRQILEKAGGLKPFLLGCPRFVVIDNCIALKKVASRLKKKRKKKNIKTKVEEISKAGEYVRVKLQLNPAAREFKPDVKSKPVSDSSSAPAFENVKPKPVSANSPKPACEDVKAKPVSDNSSRQVSEDGQPKGVSSNSPKPGSEDANYKRVSCNSPKPVLEDVKPTYWAQSHLVTGYCTYLPFQRFDITQTPPAYINVLPGLPQYTSIYTPLASLSPEYQLPRSVPVVPSFVANDRADKNAAAYFEGHHLNAENVAGHQIASETQILEGSLGISVKSHCSTGDAHTVLSESNRNDEHCGNSNNKCEVIPESTSAVTNIPHVQMVAIQVSWNIIHQEVNTEPYNPFEERQGEISRIEKEHQVLQDQLQEVYENYEQIKLKGLEETRDLEEKLKRHLEENKISKTELDWFLQDLEREIKKWQQEKKEIQERLKSLKKKIKKVSNASEMYTQKNDGKEKEHELHLDQSLEISNTLTNEKMKIEEYIKKGKEDYEESHQRAVAAEVSVLENWKESEVYKLQIMESQAEAFLKKLGLISRDPAAYPDMESDIRSWELFLSNVTKEIEKAKSQFEEQIKAIKNGSRLSELSKVQISELSFPACNTVHPELLPESSGDDGQGLVTSASDVTGNHAALHRDPSVFSAGDSPGEAPSALLPGPPPGQPEATQLTGPKRAGQAALSERSPVADRKQPVPPGRAARSSQSPKKPFNSIIEHLSVVFPCYNSTELAGFIKKVRSKNKNSLSGLSIDEIVQRVTEHILDEQKKKKPNPGKDKRTYEPSSATPVTRSSQGSPSVVVAPSPKTKGQKAEDVPVRIALGASSCEICHEVFKSKNVRVLKCGHKYHKGCFKQWLKGQSACPACQGRDLLTEESPSGRGWPSQNQELPSCSSR |
| 1312 | sp|Q6NY15|TSG10\_MOUSE | MMRNRSKSPRRPSPTSRAANCDVELLKSTARDREELKCMLEKYERHLAEIQGNVKVLTSERDKTFLLYEQAQEEIARLRREMMKSCKSPKSTTAHAILRRVETERDVAFTDLRRMTTERDSLRERLKIAQETAFNEKAHLEQRIEELECTVHNLDDERMEQMANMTLMKETITTVEKEMKSLARKAMDTESELGRQKAENNSLRLLYENTEKDLSDTQRHLAKKKYELQLTQEKIMCLDEKIDNFTRQNIAQREEISILGATLNDLAKEKECLQACLDKKSENIASLGESLAMKEKTISGMKNIIAEMEQASRQSTEALIMCEQDISRMRRQLDETNDELGQIARERDILAHENDNLQEQFAKVKQENQALSKKLNDTHNELSDIKQKVQDTNLEVNKLKNILKSEESENRQIMEQLRKANEDAENWENKARQTEAENNTLKLELITAEAEGNRLKEKVDALNREVEQHLNAERSYKSQIATLHKSLVKMEEELQKVQFEKVSALADLSSTRELCIKLDSSKELLNRQLVAKDQEIEMMENELDSARSEIELLRSQMTNERISMQNLEALLVANRDKEYQSQIALQEKESEIQLLKEHLCLAENKMAIQSRDVAQFRNVVTQLEADLDITKRQLGTERFERERAVQELRRQNYSSNAYNLGPMKPNTKCHSPERAHHRSPDRGLDRSLEENLCYRDF |
| 1313 | sp|P22265|TSH\_DROME | MLHEALMLEIYRQALNAGALPTARPRSTESANSSERCPSHDSNSSEHGGGAGSGGVGHRLDAAALSTGVMPGEGPTTLHSSFPAVPQSLPSQPPSMEAYLHMVAAAAQQYGFPLAAAAAAGAGPRLPLPLANEAAAPFKLPPQASPTASSNNSEALDFRTNLYGRAESAEPPASEGEEEEFDDGANNPLDLSVGTRKRGHESEPQLGHIQVKKMFKSDSPPANSVASPSASQLLPGVNPYLAAVAAANIFRAGQFPDWNSKNDLVVDPLEKMSDIVKGGASGMGTKEKMHSSKATTPQAASQPPKSPVQPTPNQNSESGGGSGGGAAGSGAVTKARHNIWQSHWQNKGVASSVFRCVWCKQSFPTLEALTTHMKDSKHCGVNVPPFGNLPSNNPQPQHHHPTPPPPPQNHNLRKHSSGSASNHSPSANVKNAFQYRGDPPTPLPRKLVRGQNVWLGKGVEQAMQILKCMRCGESFRSLGEMTKHMQETQHYTNILSQEQSISIKSGNANANSDAKESHNSLSSEESRTLSAVLTCKVCDKAFNSLGDLSNHMAKNNHYAEPLLQSAGARKRPAPKKREKSLPVRKLLEMKGGSGTTQEDHSNEKTSVQGKPGLGPGGGDKNDAALFAERMRQYITGVKAPEEIAKVAAAQLLAKNKSPELVEQKNGGSAKAAGASSVLSAIEQMFTTSFDTPPRHASLPASSPSNSSTKNTSPVASSILKRLGIDETVDYNKPLIDTNDPYYQHYRYTSSERSGSECSAEARPRLDAPTPEKQQQGGGHDEESSKPAIKQEREAESKPVKMEIKSEFVDEPNEAEETSKMEAAVVNGSATNNNNNIVERSSPKTPSSAASPQTRLLPPRSPAESQRSVTPKSPASSHKSYDGSSEGTKKFPSDSLNALSSMFDSLGSSGAGANSRAKLAAAAAAGGSESPENLTAGGNSLAALRQFCVKKEKTA |
| 1314 | sp|A1L167|U2QL1\_HUMAN | MKELQDIARLSDRFISVELVDESLFDWNVKLHQVDKDSVLWQDMKETNTEFILLNLTFPDNFPFSPPFMRVLSPRLENGYVLDGGAICMELLTPRGWSSAYTVEAVMRQFAASLVKGQGRICRKAGKSKKSFSRKEAEATFKSLVKTHEKYGWVTPPVSDG |
| 1315 | sp|P76055|TTCA\_ECOLI | MQENQQITKKEQYNLNKLQKRLRRNVGEAIADFNMIEEGDRIMVCLSGGKDSYTMLEILRNLQQSAPINFSLVAVNLDQKQPGFPEHVLPEYLEKLGVEYKIVEENTYGIVKEKIPEGKTTCSLCSRLRRGILYRTATELGATKIALGHHRDDILQTLFLNMFYGGKMKGMPPKLMSDDGKHIVIRPLAYCREKDIQRFADAKAFPIIPCNLCGSQPNLQRQVIADMLRDWDKRYPGRIETMFSAMQNVVPSHLCDTNLFDFKGITHGSEVVNGGDLAFDREEIPLQPACWQPEEDENQLDELRLNVVEVK |
| 1316 | sp|Q9D3A9|TTYH1\_MOUSE | MGAPPGYRPSAWVHLLHQLPRADFQLRPVPSGFAPRDQEYQQALLLVAALAGLGLGLSLIFIAVYLIRFCCCRPPEPHGAKSPPPGGGCVTWSCIAALLVGCAGIGIGFYGNSETSDGVSQLSSALLHANHTLSTIDDVVLETVERLGEAVKTELTTLEEVLSVRMELVAATRGARRQAEAAAQYLQGLAFWQGVSLSPVQVAEDVTFVEEYRWLAYVLLLLLVLLVCLFTLLGLAKQSKWLVVVMTAMSLLVLVLSWGSMGLEAATAVGLSDFCSNPDTYVLNLTQEETGLSSDILSYYFLCNQAVSNPFQQRLTLSQRALASIHSQLQGLEREAIPQFSAAQKPLLSLEETLNVTERSFHQLVALLHCRSLHKDYGSALRGLCEDALEGLLFLMLFSLLSAGALATTLCSLPRAWALFPPSDDYDDTDDDDPFNPQESKRFVQWQSSI |
| 1317 | sp|P38627|URA8\_YEAST | MKYVVVSGGVISGIGKGVLASSTGMLLKTLGLKVTSIKIDPYMNIDAGTMSPLEHGECFVLDDGGETDLDLGNYERYLGITLSRDHNITTGKIYSHVISRERRGDYLGKTVQIVPHLTNAIQDWIQRVSKIPVDDTGLEPDVCIIELGGTVGDIESAPFVEALRQFQFEVGRENFALIHVSLVPVIHGEQKTKPTQAAIKDLRSLGLIPDMIACRCSEELNRSTIDKIAMFCHVGPEQVVNVHDVNSTYHVPLLLLKQHMIDYLHSRLKLGEVPLTLEDKERGSQLLTNWENMTKNLDDSDDVVKIALVGKYTNLKDSYLSVTKSLEHASMKCRRQLEILWVEASNLEPETQEVDKNKFHDSWNKLSSADGILVPGGFGTRGIEGMILAAKWARESGVPFLGVCLGLQVAAIEFARNVIGRPNSSSTEFLDETLLAPEDQVVIYMPEIDKEHMGGTMRLGLRPTIFQPNSEWSNIRKLYGEVNEVHERHRHRYEINPKIVNDMESRGFIFVGKDETGQRCEIFELKGHPYYVGTQYHPEYTSKVLEPSRPFWGLVAAASGTLGEVIKDINLSEGNENE |
| 1318 | sp|Q9FM01|UGDH4\_ARATH | MVKICCIGAGYVGGPTMAVIALKCPDIEVAVVDISVPRINAWNSDQLPIYEPGLDDIVKQCRGKNLFFSTDVEKHVREADIVFVSVNTPTKTTGLGAGKAADLTYWESAARMIADVSVSDKIVVEKSTVPVKTAEAIEKILMHNSKGIKFQILSNPEFLAEGTAIADLFNPDRVLIGGRETPEGFKAVQTLKEVYANWVPEGQIITTNLWSAELSKLAANAFLAQRISSVNAMSALCESTGADVTQVSYAVGTDSRIGSKFLNASVGFGGSCFQKDILNLVYICQCNGLPEVAEYWKQVIKINDYQKNRFVNRIVSSMFNTVSNKKVAILGFAFKKDTGDTRETPAIDVCKGLLGDKAQISIYDPQVTEEQIQRDLSMKKFDWDHPLHLQPMSPTTVKQVSVTWDAYEATKDAHAVCVLTEWDEFKSLDYQKIFDNMQKPAFIFDGRNIMNVNKLREIGFIVYSIGKPLDPWLKDMPAFV |
| 1319 | sp|Q9Y5T5|UBP16\_HUMAN | MGKKRTKGKTVPIDDSSETLEPVCRHIRKGLEQGNLKKALVNVEWNICQDCKTDNKVKDKAEEETEEKPSVWLCLKCGHQGCGRNSQEQHALKHYLTPRSEPHCLVLSLDNWSVWCYVCDNEVQYCSSNQLGQVVDYVRKQASITTPKPAEKDNGNIELENKKLEKESKNEQEREKKENMAKENPPMNSPCQITVKGLSNLGNTCFFNAVMQNLSQTPVLRELLKEVKMSGTIVKIEPPDLALTEPLEINLEPPGPLTLAMSQFLNEMQETKKGVVTPKELFSQVCKKAVRFKGYQQQDSQELLRYLLDGMRAEEHQRVSKGILKAFGNSTEKLDEELKNKVKDYEKKKSMPSFVDRIFGGELTSMIMCDQCRTVSLVHESFLDLSLPVLDDQSGKKSVNDKNLKKTVEDEDQDSEEEKDNDSYIKERSDIPSGTSKHLQKKAKKQAKKQAKNQRRQQKIQGKVLHLNDICTIDHPEDSEYEAEMSLQGEVNIKSNHISQEGVMHKEYCVNQKDLNGQAKMIESVTDNQKSTEEVDMKNINMDNDLEVLTSSPTRNLNGAYLTEGSNGEVDISNGFKNLNLNAALHPDEINIEILNDSHTPGTKVYEVVNEDPETAFCTLANREVFNTDECSIQHCLYQFTRNEKLRDANKLLCEVCTRRQCNGPKANIKGERKHVYTNAKKQMLISLAPPVLTLHLKRFQQAGFNLRKVNKHIKFPEILDLAPFCTLKCKNVAEENTRVLYSLYGVVEHSGTMRSGHYTAYAKARTANSHLSNLVLHGDIPQDFEMESKGQWFHISDTHVQAVPTTKVLNSQAYLLFYERIL |
| 1320 | sp|Q8VDW4|UBE2W\_MOUSE | MASMQKRLQKELLALQNDPPPGMTLNEKSVQNSITQWIVDMEGAPGTLYEGEKFQLLFKFSSRYPFDSPQVMFTGENIPIHPHVYSNGHICLSILTEDWSPALSVQSVCLSIISMLSSCKEKRRPPDNSFYVRTCNKNPKKTKWWYHDDTC |
| 1321 | sp|O75631|UPK3A\_HUMAN | MPPLWALLALGCLRFGSAVNLQPQLASVTFATNNPTLTTVALEKPLCMFDSKEALTGTHEVYLYVLVDSAISRNASVQDSTNTPLGSTFLQTEGGRTGPYKAVAFDLIPCSDLPSLDAIGDVSKASQILNAYLVRVGANGTCLWDPNFQGLCNAPLSAATEYRFKYVLVNMSTGLVEDQTLWSDPIRTNQLTPYSTIDTWPGRRSGGMIVITSILGSLPFFLLVGFAGAIALSLVDMGSSDGETTHDSQITQEAVPKSLGASESSYTSVNRGPPLDRAEVYSSKLQD |
| 1322 | sp|Q9VU87|VPS36\_DROME | MNRFAYVEARLSPNESFVSRDNRVKIYDGDQKTDFEDGEVVLTTHRLFWGRPGEIARAAVTLCLPLSYVISVSEETTASNFFGRKTRIIMHLHPPTSDKGPGPLDTSRATHIKLSGKNGLSVEFHSALRETLNARVWEILLTSEIIINGVASSPTLEPANDRLARIQKRTGIGGIERHLEAKAKATDENIALAFQDLSVLMAMAKDMVGVSKTISSKIRKQKGEISDDETVRFKSYLMSLGIDDPVTRDNFTSNSAYFSSLARQICEMLLDPIEEQGGMMSLADVYCRVNRARGLELLSPEDLLHACEQLSGPIRLRSFPSGARVLQLESHDDALIAVDTLEKVEAAESLAVEELAKQLGISLLLAKERLLVAERLGKVCRDESVEGLRFYPNLLLGRD |
| 1323 | sp|Q23194|VPS18\_CAEEL | MIKNTAKNKNGIITRATIDLKKDLKFVKLTAVSNLAVQNGEMLAAVTEKLLVHYSEGTGERHQEMSLPLNGPDHVAYIHLSRTGFHAIVSSKLGHNFYIHLKSNAFHHLKKLRCVVTAVGWNPDYSKETDTTGPILLGTAQGSIIELNVGSTGMMTTLKELTSQVAQIAEQRITSAPSPAAAITDIQLFQLADDDPKNKKWMVIIAQMARLIVLITDNEPAPVVKLGGFTSSASLQAGLMNLATEQAPSTTFHSFFTSPNTLQHTISSSKFSEKFKNHGFLTMHPTIAEPKRYAWLSPDGISIGNVNIYAERIQDVLVEEFNIEHRLIEGRLEPPTGIALTDYHVLLAYSSRVLALSLLPPHDVIFEDPWNPELGGALGFVSDNVAEFVWLYTQTFAMKYGTNDEARYIWKTYLDRGEYQKALQIARTRVAIEPDALEMVLRKQADFYIQEKNFTAAAEILAQSSEPFESVVLKFLTNSSERKMGLKTLLDKKLERLTRHEDKIRRDALVMWLLNVQLEELAEMRRLKNSNPDPAFVEKLRDTTDHVQRYFMRKNVIESIQTNRDAVYRMCVAHADFEMQLFFANAVKDLRTVIDILMLREQYFEVLEVLKNQRISELTYEMCPLLIEHIPKQVIVYLIQNQDQISPQKLTPCLSLCVKNMEMAIPAIKYLEAQFKGTQTISQNPQNLANLHNIYIHLMAKFRREKLLGYLESHGTIRSDLPYELDFAMRTCEQFKIEPCVVYLFCVAGMFGDAVEKALGFDVDLAKKCALMMEEAEANFAWLEGMEDPAATSYIRQKLDEKAKKAIWLKIGQYYVTQENNVDKCIELINESNHLLTIQDLLPIIPKFTRVGALKPIIVDFLKRNKQRLEKLERSMKEATEIASEIRDKQEKLKNRTTVVKPSDVCSHCARPISGRAFNVHSCRHFFHRECLEIAMISFLSQEEVEKMKTLIIDEERVLSQMKAEQLAGNQKGFIEKQEKYLKIAAFISNIVGAECPLCGNIAISQIDKQFLSDEEFAADLNTWLL |
| 1324 | sp|O70481|UBR1\_MOUSE | MADEEMDGAERMDVSPEPPLAPQRPASWWDQQVDFYTAFLHHLAQLVPEIYFAEMDPDLEKQEESVQMSILTPLEWYLFGEDPDICLEKLKHSGAFQLCGKVFKSGETTYSCRDCAIDPTCVLCMDCFQSSVHKNHRYKMHTSTGGGFCDCGDTEAWKTGPFCVDHEPGRAGTTKESLHCPLNEEVIAQARRIFPSVIKYIVEMTIWEEEKELPPELQIREKNERYYCVLFNDEHHSYDHVIYSLQRALDCELAEAQLHTTAIDKEGRRAVKAGVYATCQEAKEDIKSHSENVSQHPLHVEVLHSVVMAHQKFALRLGSWMNKIMSYSSDFRQIFCQACLVEEPGSENPCLISRLMLWDAKLYKGARKILHELIFSSFFMEMEYKKLFAMEFVKYYKQLQKEYISDDHERSISITALSVQMLTVPTLARHLIEEQNVISVITETLLEVLPEYLDRNNKFNFQGYSQDKLGRVYAVICDLKYILISKPVIWTERLRAQFLEGFRSFLKILTCMQGMEEIRRQVGQHIEVDPDWEAAIAIQMQLKNILLMFQEWCACDEDLLLVAYKECHKAVMRCSTNFMSSTKTVVQLCGHSLETKSYKVSEDLVSIHLPLSRTLAGLHVRLSRLGAISRLHEFVPFDGFQVEVLVEYPLRCLVLVAQVVAEMWRRNGLSLISQVFYYQDVKCREEMYDKDIIMLQIGASIMDPNKFLLLVLQRYELTDAFNKTISTKDQDLIKQYNTLIEEMLQVLIYIVGERYVPGVGNVTREEVIMREITHLLCIEPMPHSAIARNLPENENNETGLENVINKVATFKKPGVSGHGVYELKDESLKDFNMYFYHYSKTQHSKAEHMQKKRRKQENKDEALPPPPPPEFCPAFSKVVNLLSCDVMMYILRTIFERAVDMESNLWTEGMLQMAFHILALGLLEEKQQLQKAPEEEVAFDFYHKASRLGSSAMNAQNIQMLLEKLKGIPQLESQKDMITWILQMFDTVKRLREKSCLVVATTSGLECVKSEEITHDKEKAERKRKAEAARLHRQKIMAQMSALQKNFIETHKLMYDNTSEVTGKEDSIMEEESTSAVSEASRIALGPKRGPAVTEKEVLTCILCQEEQEVKLENNAMVLSACVQKSTALTQHRGKPVDHLGETLDPLFMDPDLAHGTYTGSCGHVMHAVCWQKYFEAVQLSSQQRIHVDLFDLESGEYLCPLCKSLCNTVIPIIPLQPQKINSENAEALAQLLTLARWIQTVLARISGYNIKHAKGEAPAVPVLFNQGMGDSTFEFHSILSFGVQSSVKYSNSIKEMVILFATTIYRIGLKVPPDELDPRVPMMTWSTCAFTIQAIENLLGDEGKPLFGALQNRQHNGLKALMQFAVAQRTTCPQVLIHKHLARLLSVILPNLQSENTPGLLSVDLFHVLVGAVLAFPSLYWDDTVDLQPSPLSSSYNHLYLFHLITMAHMLQILLTTDTDLSSGPPLAEGEEDSEEARCASAFFVEVSQHTDGLAGCGAPGWYLWLSLRNGITPYLRCAALLFHYLLGVAPPEELFANSAEGEFSALCSYLSLPTNLFLLFQEYWDTIRPLLQRWCGDPALLKSLKQKSAVVRYPRKRNSLIELPEDYSCLLNQASHFRCPRSADDERKHPVLCLFCGAILCSQNICCQEIVNGEEVGACVFHALHCGAGVCIFLKIRECRVVLVEGKARGCAYPAPYLDEYGETDPGLKRGNPLHLSRERYRKLHLVWQQHCIIEEIARSQETNQMLFGFNWQLL |
| 1325 | sp|Q8R307|VPS18\_MOUSE | MASILDEYEDSLSRSAVLQTGCPSVGIPHSGYVSAHLEKEVPIFTKQRVDFTPSERITSLVVSCNQLCMSLGKDTLLRIDLGKASEPNRVELGRKDDAKVHKMFLDHTGSHLLVALSSTEVLYMNRNGQKARPLARWKGQLVESVGWNKAMGNESSTGPILVGTAQGQIFEAELSASEGGLFGPAPDLYFRPLYVLNEEGGPAPVCSLEAERGPDGRGFVIATTRQRLFQFIGRAVEDTEAQGFAGLFAAYTDHPPPFREFPSNLGYSELAFYTPKLRSAPRAFAWMMGDGVLYGSLDCGRPDSLLSEERVWEYPAGVGPGANPPLAIVLTQFHFLLLLADRVEAVCTLTGQVVLRDHFLEKFGPLRHMVKDSSTGHLWAYTERAVFRYHVQREARDVWRTYLDMNRFDLAKEYCRERPDCLDTVLAREADFCFRQHRYLESARCYALTQSYFEEIALKFLEARQEEALAEFLQRKLAGLKPTERTQATLLTTWLTELYLSRLGALQGDPDALTLYRDTRECFRTFLSSPRHKEWLFASRASIHELLASHGDTEHMVYFAVIMQDYERVVAYHCQHEAYEEALAVLARHRDPQLFYKFSPILIRHIPRQLVDAWIEMGSRLDARQLIPALVNYSQGGEAQQVSQAIRYMEFCVNVLGETEQAIHNYLLSLYARGQPASLLAYLEQAGASPHRVHYDLKYALRLCAEHGHHRACVHVYKVLELYEEAVDLALQVDVDLAKQCADLPEEDEELRKKLWLKIARHVVQEEEDVQTAMACLASCPLLKIEDVLPFFPDFVTIDHFKEAICSSLKAYNHHIQELQREMEEATASAQRIRRDLQELRGRYGTVEPQDKCSTCDFPLLNRPFYLFLCGHMFHADCLLQAVRPGLPAYKQARLEELQRKLGAAPPPTKGSVKAKEAEAGAAAVGPSREQLKADLDELVAAECVYCGELMIRSIDRPFIDPQRYEEEHLSWL |
| 1326 | sp|P98155|VLDLR\_HUMAN | MGTSALWALWLLLALCWAPRESGATGTGRKAKCEPSQFQCTNGRCITLLWKCDGDEDCVDGSDEKNCVKKTCAESDFVCNNGQCVPSRWKCDGDPDCEDGSDESPEQCHMRTCRIHEISCGAHSTQCIPVSWRCDGENDCDSGEDEENCGNITCSPDEFTCSSGRCISRNFVCNGQDDCSDGSDELDCAPPTCGAHEFQCSTSSCIPISWVCDDDADCSDQSDESLEQCGRQPVIHTKCPASEIQCGSGECIHKKWRCDGDPDCKDGSDEVNCPSRTCRPDQFECEDGSCIHGSRQCNGIRDCVDGSDEVNCKNVNQCLGPGKFKCRSGECIDISKVCNQEQDCRDWSDEPLKECHINECLVNNGGCSHICKDLVIGYECDCAAGFELIDRKTCGDIDECQNPGICSQICINLKGGYKCECSRGYQMDLATGVCKAVGKEPSLIFTNRRDIRKIGLERKEYIQLVEQLRNTVALDADIAAQKLFWADLSQKAIFSASIDDKVGRHVKMIDNVYNPAAIAVDWVYKTIYWTDAASKTISVATLDGTKRKFLFNSDLREPASIAVDPLSGFVYWSDWGEPAKIEKAGMNGFDRRPLVTADIQWPNGITLDLIKSRLYWLDSKLHMLSSVDLNGQDRRIVLKSLEFLAHPLALTIFEDRVYWIDGENEAVYGANKFTGSELATLVNNLNDAQDIIVYHELVQPSGKNWCEEDMENGGCEYLCLPAPQINDHSPKYTCSCPSGYNVEENGRDCQSTATTVTYSETKDTNTTEISATSGLVPGGINVTTAVSEVSVPPKGTSAAWAILPLLLLVMAAVGGYLMWRNWQHKNMKSMNFDNPVYLKTTEEDLSIDIGRHSASVGHTYPAISVVSTDDDLA |
| 1327 | sp|Q2JJF6|VKOR\_SYNJB | MASYLKLKAQEETWLQRHSRLILAILAGLGSLLTAYLTYTKLTEQPAAFCTGDGGCDLVLSSRWAEFLGIPTAAVGLLGFLGVLALAVLPDGLPLVKRWRWPALFGLVSAMTAFEMYMLYLMVAVLRQFCMYCTTAIILVAGLGLVTVLGHRWLDGGKLAFSYILVAFLTLVTTIGVYANQVPPPSPLAVGLAAHLRQIGGTMYGAYWCPHCQDQKELFGAAFDQVPYVECSPNGPGTPQAQECTEAGITSYPTWIINGRTYTGVRSLEALAVASGYPLEEGR |
| 1328 | sp|Q62634|VGLU1\_RAT | MEFRQEEFRKLAGRALGRLHRLLEKRQEGAETLELSADGRPVTTHTRDPPVVDCTCFGLPRRYIIAIMSGLGFCISFGIRCNLGVAIVSMVNNSTTHRGGHVVVQKAQFNWDPETVGLIHGSFFWGYIVTQIPGGFICQKFAANRVFGFAIVATSTLNMLIPSAARVHYGCVIFVRILQGLVEGVTYPACHGIWSKWAPPLERSRLATTAFCGSYAGAVVAMPLAGVLVQYSGWSSVFYVYGSFGIFWYLFWLLVSYESPALHPSISEEERKYIEDAIGESAKLMNPVTKFNTPWRRFFTSMPVYAIIVANFCRSWTFYLLLISQPAYFEEVFGFEISKVGLVSALPHLVMTIIVPIGGQIADFLRSRHIMSTTNVRKLMNCGGFGMEATLLLVVGYSHSKGVAISFLVLAVGFSGFAISGFNVNHLDIAPRYASILMGISNGVGTLSGMVCPIIVGAMTKHKTREEWQYVFLIASLVHYGGVIFYGVFASGEKQPWAEPEEMSEEKCGFVGHDQLAGSDESEMEDEVEPPGAPPAPPPSYGATHSTVQPPRPPPPVRDY |
| 1329 | sp|U5PZ28|VM2H1\_BOTLA | MIQVLLVTICLAALPYQGSSIILESGNVNDYEVVYPRKVTALPKGAGQPKYEDAMQYEFKVNGEPVVLHLEKNKGLFSKDYSETHYSSDGRKITTNPPVEDHCYYHGRIENDADSTGSISACNGLKGHFKLQGEMYLIEPLKLSDSEAHAIYKYENVEKEDEAPKMCGVTETNWESYEPIKKASQSNLTPEQQRFNPFKYVELVIVADHRMFTKYNGDLEKIRIKIYEIVNILNEMFRYLYIRIALVDLEIWSNRDLINVTSVAGDTLDSFGNWRETDLLKRKSHDNAQLLTGIDFNGTTIGIAYIASMCNPYLSVGIVQDHSEINFLIAVTMAHEMGHNLGMRHDTDYCTCGGYSCIMCAVLSDQPSKFFSNCSYIQYGKFIMNQNSQCILNEPLGTDIVSPPVCGNEILEVGEECDCGCPTNCQDPCCNAATCKQYSWVQCESGECCEQCRFRAAGTVCRRATDNDMDNRCTGQSADCPSNG |
| 1330 | sp|Q9NHV9|VAV\_DROME | MASSSSSNSFGGVAGVNGDLWRECVAWLTRCKVIPPDHKAAQPDAEIRILAMTLRDGVLLCNLVIHLDPSSLDPREFNRKPQMAQFLCSKNIKLFLDVCHNNFGIRDADLFEPTMLYDLTNFHRVLITLSKLSQCRKVQQLHPDLIGFNLQLSPTERSHSDEAIYKDLHSTTTDNIACNGTGYDHTNTKEEEVYQDLCALHRTSRSQTASSTSFEQRDYVIRELIDTESNYLDVLTALKTKFMGPLERHLNQDELRLIFPRIRELVDIHTKFLDKLRESLTPNAKVKMAQVFLDFREPFLIYGEFCSLLLGAIDYLADVCKKNQIIDQLVQKCERDYNVGKLQLRDILSVPMQRILKYHLLLDKLVKETSPLHDDYRSLERAKEAMIDVSQYINEVKRDSDHLVIIQKVKDSICDIHLLQNGNGSDLLQYGRLLLDGELHIKAHEDQKTKLRYAFVFDKILIMVKALHIKTGDMQYTYRDSHNLADYRVEQSHSRRTIGRDTRFKYQLLLARKSGKTAFTLYLKSEHERDKWRKALTEAMESLEPPGCQSTDHKMEIYTFDAPTTCRHCSKFLKGRIHQGYRCKVCQISVHKGCISSTGRCKQNPVSVPPPVCDRQLSEFNWFAGNMDRETAAHRLENRRIGTYLLRVRPQGPSTAHETMYALSLKTDDNVIKHMKINQENSGDSMLYCLSSRRHFKTIVELVSYYERNDLGENFAGLNQSLQWPYKEVIATALYDYEPKAGSNQLQLRTDCQVLVIGKDGDSKGWWRGKIGDTVGYFPKEYVQEQKLASEEL |
| 1331 | sp|P19826|VINC\_CAEEL | MPVFHTKTIENILEPVAQQLHYVLAMAEKNATSVDEVRHLGTSMPNLDRFASRSALALSRASSRRSIPEYITPDTVRHVVNDDDCPVCQLMMPRGKDGCVSRLVILHEEANDGNAMPDLTGPVGMVSRAVGNLIQVGYDTCDHSDDRILQQDMPPALQRVEGSSKLLEESSYSLKHDPYSVPARKKLIDGARGILQGTSALLLCFDESEVRKIIRVCRKANDYVAVSEVIESMADLQQFVKDISPVLHDVTNDVNLRQQELTHQVHREILIRCMDSIKVIAPILICSMKTSIELGTPHPRQGHAEAIANRNFMSQRMTEEMNEIIRVLQLTTYDEDEWDADNVTVMRKALSAAKSLLTAALDWLADPHARSGAVGEKAIRRICEYADRISARALPEDAQSIKRSIFEITSFTDELCNLRNNGQPDRENLAAQTARRLKDLVGSQNSSGLMGDALQNAQRHGGANPAHTAAGRLEQALRWLDNPGLDDGGLGLQALRLLTADARKLADRLNPQDRNRLLGLCSDIDRLAAQLADLERRGLGNSPEAHQIRNQLKNALRDLGDFMRRVLTDRVVDDFADITTPLKQFVEAVHADPYDPNREQNFVDKSQRLTDHSQSMTTTARLVASCGPSKSKKTVEAILDTAEKVEQLTPQLVNAGRVRLHNPGSEQHFENIHKQYADALHRLRSHVDDAIDTGEFVRASETAMRRYTNHCEGAINGADAHGLVNNSSQIARLGNRVLMTAQNEADNSEEPSFVSRVRNAADQLHNAIPPMVNNAKQIAQNPHDQYAAQNWRGTNDHLLNSVRAVGDAITGVPMSNGRHSSYQESISRASPYNPPPPSSQVIRSVNASPPTAPIIHNKMIIREDIPAPPRPPPPVELSPPPRPPPPPEYDEEEETRAFWERYPLPQASHQPMLAAAHNLHNELKQWSSQENDIVAAAKRMAILMARLSQLVRGEGGTKKDLINCSKAIADSSEEVTRLAVQLARLCTDIKMRTALLQVSERIPTIATQLKVLSTVKATMLGSANVIGPYGQPVEGSEEDDEAMQQLVHNAQNLMQSVKDVVRAAEAASIKIRTNSGLRLRWLRKPMWSNF |
| 1332 | sp|Q06685|VIP1\_YEAST | MSGIKKEPIESDEVPQQETKNNLPSAPSEMSPLFLNKNTQKAMQSIAPILEGFSPKTSASENMSLKLPPPGIQDDHSEENLTVHDTLQRTISTALGNGNNTNTVTTSGLKKADSESKSEADPEGLSNSNIVNDADNINSISKTGSPHLPQGTMDAEQTNMGTNSVPTSSASSRKSSTSHPKPRLPKVGKIGVCAMDAKVLSKPMRHILNRLIEHGEFETVIFGDKVILDERIENWPTCDFLISFFSSGFPLDKAIKYVKLRKPFIINDLIMQKILWDRRLCLQVLEAYNVPTPPRLEISRDGGPRANEELRAKLREHGVEVKPVEEPEWKMVDDDTLEVDGKTMTKPFVEKPVDGEDHNIYIYYHSKNGGGGRRLFRKVGNKSSEFDPTLVHPRTEGSYIYEQFMDTDNFEDVKAYTIGENFCHAETRKSPVVDGIVRRNTHGKEVRYITELSDEEKTIAGKVSKAFSQMICGFDLLRVSGKSYVIDVNGFSFVKDNKAYYDSCANILRSTFIEAKKKMDMEKKNLPIIREEKEQKWVFKGLAIIIRHADRTPKQKFKHSFTSPIFISLLKGHKEEVVIRNVNDLKIVLQALRIALDEKAGNPAKIKVLANALEKKLNFPGTKIQLKPVLNKENEVEKVQFILKWGGEPTHSAKYQATELGEQMRQDFDLLNKSILQNIKIFSSSERRVLHTAQYWTRALFGADELGSDEISIRKDLLDDSNAAKDLMDKVKKKLKPLLREGKEAPPQFAWPSKMPEPYLVIKRVVELMNYHKKIMDNNFAKKDVNSMQTRWCTSEDPSLFKERWDKLFKEFNNAEKVDPSKISELYDTMKYDALHNRQFLENIFDPGLPNEAIADELGSHSLVDRYPINVLAKNNFKIIDSHSMNNSGKNSSNSVGSLGWVLESGKTSTARNPKSSSQFDEPRFMQLRELYKLAKVLFDFICPKEYGISDAEKLDIGLLTSLPLAKQILNDIGDMKNRETPACVAYFTKESHIYTLLNIIYESGIPMRIARNALPELDYLSQITFELYESTDASGQKSHSIRLKMSPGCHTQDPLDVQLDDRHYISCIPKISLTKHLDMDYVQQKLRNKFTRVIMPPKFTPVNITSPNLSFQKRKTRRKSVSVEKLKRPASSGSSSSTSVNKTLD |
| 1333 | sp|Q9V3C1|VHL\_DROME | MALQIAQNNRDGQQLVGADQGKVEVYVLFANTTYRTLDLYWVCERERENMYLTLKPFEEVRVNTFTTHSWLFRDYYTGERMHVRSQRIFQPIRVRVPKSQQSPDQLVDVRSEVLIHFPMRSLRENCLWLVARWLIRTSNAPRRIIHGYHIPSTLKQQLLSLLTCIESYSRVAGTRRRR |
| 1334 | sp|Q16572|VACHT\_HUMAN | MESAEPAGQARAAATKLSEAVGAALQEPRRQRRLVLVIVCVALLLDNMLYMVIVPIVPDYIAHMRGGGEGPTRTPEVWEPTLPLPTPANASAYTANTSASPTAAWPAGSALRPRYPTESEDVKIGVLFASKAILQLLVNPLSGPFIDRMSYDVPLLIGLGVMFASTVLFAFAEDYATLFAARSLQGLGSAFADTSGIAMIADKYPEEPERSRALGVALAFISFGSLVAPPFGGILYEFAGKRVPFLVLAAVSLFDALLLLAVAKPFSAAARARANLPVGTPIHRLMLDPYIAVVAGALTTCNIPLAFLEPTIATWMKHTMAASEWEMGMAWLPAFVPHVLGVYLTVRLAARYPHLQWLYGALGLAVIGASSCIVPACRSFAPLVVSLCGLCFGIALVDTALLPTLAFLVDVRHVSVYGSVYAIADISYSVAYALGPIVAGHIVHSLGFEQLSLGMGLANLLYAPVLLLLRNVGLLTRSRSERDVLLDEPPQGLYDAVRLRERPVSGQDGEPRSPPGPFDACEDDYNYYYTRS |
| 1335 | sp|P51809|VAMP7\_HUMAN | MAILFAVVARGTTILAKHAWCGGNFLEVTEQILAKIPSENNKLTYSHGNYLFHYICQDRIVYLCITDDDFERSRAFNFLNEIKKRFQTTYGSRAQTALPYAMNSEFSSVLAAQLKHHSENKGLDKVMETQAQVDELKGIMVRNIDLVAQRGERLELLIDKTENLVDSSVTFKTTSRNLARAMCMKNLKLTIIIIIVSIVFIYIIVSPLCGGFTWPSCVKK |
| 1336 | sp|Q8UVJ6|VANG2\_DANRE | MDNESQYSGYSYKSSHSRSSRKHRDRRDRHRSKSRDSSSRGDKSVTIQAPGEPLLDAESTRGDDRDDNWGETTTVVTGTSEHSVSNEDLTRASKELEDSSPLECRRFAGPIVSGVLGLFALLTPLAFLLLPQLLWRDSLEPCGTPCEGLYVSLAFKLLVLLISSWALFLRPSRSTLPRFFVFRCLLMALVFLFVASYWLFYGVRVLEPRERDYRGIVGYAVSLVDALLFIQYLALVLLEVRHLRPAFCLKVVRTTDGASRFYNVGHLSIQRAAVWVLDHYYTDFPVYNPALLNLPKSILSKKMSGFKVYSLGEENSTNNSTGQSRAMIAAAARRRDNSHNEYYYEEAEMDRRVRKRKARLVVAVEEAFTHIKRLQDDEAAASPKHPREVMDPREAAQAIFAPMARAMQKYLRTTRQQPYHSMESIISHLQFCITHNMTPKAFLERYLTPGPTMQYQRENGRGRQWTLVSEEPVTAALRQGLVFSLRRLDFALVVTVTPLPFLNLGEEFIDPKSHKFVMRLQSETSV |
| 1337 | sp|P9WMQ1|UVRD1\_MYCTU | MSVHATDAKPPGPSPADQLLDGLNPQQRQAVVHEGSPLLIVAGAGSGKTAVLTRRIAYLMAARGVGVGQILAITFTNKAAAEMRERVVGLVGEKARYMWVSTFHSTCVRILRNQAALIEGLNSNFSIYDADDSRRLLQMVGRDLGLDIKRYSPRLLANAISNLKNELIDPHQALAGLTEDSDDLARAVASVYDEYQRRLRAANALDFDDLIGETVAVLQAFPQIAQYYRRRFRHVLVDEYQDTNHAQYVLVRELVGRDSNDGIPPGELCVVGDADQSIYAFRGATIRNIEDFERDYPDTRTILLEQNYRSTQNILSAANSVIARNAGRREKRLWTDAGAGELIVGYVADNEHDEARFVAEEIDALAEGSEITYNDVAVFYRTNNSSRSLEEVLIRAGIPYKVVGGVRFYERKEIRDIVAYLRVLDNPGDAVSLRRILNTPRRGIGDRAEACVAVYAENTGVGFGDALVAAAQGKVPMLNTRAEKAIAGFVEMFDELRGRLDDDLGELVEAVLERTGYRRELEASTDPQELARLDNLNELVSVAHEFSTDRENAAALGPDDEDVPDTGVLADFLERVSLVADADEIPEHGAGVVTLMTLHTAKGLEFPVVFVTGWEDGMFPHMRALDNPTELSEERRLAYVGITRARQRLYVSRAIVRSSWGQPMLNPESRFLREIPQELIDWRRTAPKPSFSAPVSGAGRFGSARPSPTRSGASRRPLLVLQVGDRVTHDKYGLGRVEEVSGVGESAMSLIDFGSSGRVKLMHNHAPVTKL |
| 1338 | sp|Q93VQ0|VCL1\_ARATH | MANVSVAAEWQLLYDRYYRKPEIYQMKWKHVDLSRNKVACASFGGPIAVIRDDSKIVQLYAESALRKLRIFNSAGILLSETVWKHPGGRLIGMSWSDDQTLICIVQDGTIYRYNIHAELIEPNMSMGQECFEQNVVECVFWGNGVVCLTEGGQLICIFDFKTMKPSKLPDVPGLAEDDLLQPICLTVREPKYTMSGIAEVLVAVGDDIFVVEEDMVQTIRFDEPSVDDSEMQNDDSGNLIGVVQKMIVSPNGKFLTLFTHDGRIVVVDMETKQIAIDYSCESALPPQQMAWCGMDSVLLYWDEDLMMVGPVGDPVHYFYDEPIILIPECDGVRILSNTNLEFLQRVPDSTESIFKIGSTSPAALLYDALDHFDRRSAKADENLRLIRSSLSEAVESCIDAAGHEFDVTRQRALLRAASYGQAFCSNFQRERVQETCRTLRVLNAVRDPAIGIPLSIQQYKLLTPVVLISRLINANCHLLALRISEYLDMNKEVVIMHWACAKITASPSTPDSHLLEILLDKLQLCKGISYAAVATHADNCGRRKLAAMLVEHEPRSTKQVPLLLSIGEEDTALVKATESGDTDLVYLVIFHIWQKRPPLEFFAMIQGRVLARDLFVAYARCHKHEFLKDFFLSTGQIHEVAFLLWKESWDMGKNPMASKGSPLHGPRIKLIEKARNLFSQTKEHTFESKAAEEHAKLLKIQHELEASTKQAIFVDSSINDTIRTCIVLGNNRAAIKVKTEFKVSDKRWYWLKAFALATIKDWAALEKFSKEKRPPMGFRPFVEACIDADEKAEALKYIPKLSDLVERGEAYARIGMAKEAADCAAQANDGGELLERFRKTFVQNAIFDTLLMPFQGAS |
| 1339 | sp|P43672|UUP\_ECOLI | MSLISMHGAWLSFSDAPLLDNAELHIEDNERVCLVGRNGAGKSTLMKILNREQGLDDGRIIYEQDLIVARLQQDPPRNVEGSVYDFVAEGIEEQAEYLKRYHDISRLVMNDPSEKNLNELAKVQEQLDHHNLWQLENRINEVLAQLGLDPNVALSSLSGGWLRKAALGRALVSNPRVLLLDEPTNHLDIETIDWLEGFLKTFNGTIIFISHDRSFIRNMATRIVDLDRGKLVTYPGNYDQYLLEKEEALRVEELQNAEFDRKLAQEEVWIRQGIKARRTRNEGRVRALKAMRRERGERREVMGTAKMQVEEASRSGKIVFEMEDVCYQVNGKQLVKDFSAQVLRGDKIALIGPNGCGKTTLLKLMLGQLQADSGRIHVGTKLEVAYFDQHRAELDPDKTVMDNLAEGKQEVMVNGKPRHVLGYLQDFLFHPKRAMTPVRALSGGERNRLLLARLFLKPSNLLILDEPTNDLDVETLELLEELIDSYQGTVLLVSHDRQFVDNTVTECWIFEGGGKIGRYVGGYHDARGQQEQYVALKQPAVKKTEEAAAAKAETVKRSSSKLSYKLQRELEQLPQLLEDLEAKLEALQTQVADASFFSQPHEQTQKVLADMAAAEQELEQAFERWEYLEALKNGG |
| 1340 | sp|Q9VA38|WARTS\_DROME | MHPAGEKRGGRPNDKYTAEALESIKQDLTRFEVQNNHRNNQNYTPLRYTATNGRNDALTPDYHHAKQPMEPPPSASPAPDVVIPPPPAIVGQPGAGSISVSGVGVGVVGVANGRVPKMMTALMPNKLIRKPSIERDTASSHYLRCSPALDSGAGSSRSDSPHSHHTHQPSSRTVGNPGGNGGFSPSPSGFSEVAPPAPPPRNPTACSAATPPPPVPPTSQAYVKRRSPALNNRPPAIAPPTQRGNSPVITQNGLKNPQQQLTQQLKSLNLYPGGGSGAVVEPPPPYLIQGGAGGAAPPPPPPSYTASMQSRQSPTQSQQSDYRKSPSSGIYSATSAGSPSPITVSLPPAPLAKPQPRVYQARSQQPIIMQSVKSTQVQKPVLQTAVAPQSPSSASASNSPVHVLAAPPSYPQKSAAVVQQQQQAAAAAHQQQHQHQQSKPPTPTTPPLVGLNSKPNCLEPPSYAKSMQAKAATVVQQQQQQQQQQQQVQQQQVQQQQQQQQQQLQALRVLQAQAQRERDQRERDQRERERDQQKLANGNPGRQMLPPPPYQSNNNNNSEIKPPSCNNNNIQISNSNLATTPPIPPAKYNNNSSNTGANSSGGSNGSTGTTASSSTSCKKIKHASPIPERKKISKEKEEERKEFRIRQYSPQAFKFFMEQHIENVIKSYRQRTYRKNQLEKEMHKVGLPDQTQIEMRKMLNQKESNYIRLKRAKMDKSMFVKLKPIGVGAFGEVTLVSKIDTSNHLYAMKTLRKADVLKRNQVAHVKAERDILAEADNNWVVKLYYSFQDKDNLYFVMDYIPGGDLMSLLIKLGIFEEELARFYIAEVTCAVDSVHKMGFIHRDIKPDNILIDRDGHIKLTDFGLCTGFRWTHNSKYYQENGNHSRQDSMEPWEEYSENGPKPTVLERRRMRDHQRVLAHSLVGTPNYIAPEVLERSGYTQLCDYWSVGVILYEMLVGQPPFLANSPLETQQKVINWEKTLHIPPQAELSREATDLIRRLCASADKRLGKSVDEVKSHDFFKGIDFADMRKQKAPYIPEIKHPTDTSNFDPVDPEKLRSNDSTMSSGDDVDQNDRTFHGFFEFTFRRFFDDKQPPDMTDDQAPVYV |
| 1341 | sp|P0A8P6|XERC\_ECOLI | MTDLHTDVERYLRYLSVERQLSPITLLNYQRQLEAIINFASENGLQSWQQCDVTMVRNFAVRSRRKGLGAASLALRLSALRSFFDWLVSQNELKANPAKGVSAPKAPRHLPKNIDVDDMNRLLDIDINDPLAVRDRAMLEVMYGAGLRLSELVGLDIKHLDLESGEVWVMGKGSKERRLPIGRNAVAWIEHWLDLRDLFGSEDDALFLSKLGKRISARNVQKRFAEWGIKQGLNNHVHPHKLRHSFATHMLESSGDLRGVQELLGHANLSTTQIYTHLDFQHLASVYDAAHPRAKRGK |
| 1342 | sp|Q9W0S8|WAGC\_DROME | MQNLKIQEEVNSLMRLGQHFDDQLKLASVELGDFSDDDLALLDKCAQYYSLLHIHDINLNYLRDFYCAKKRECIENRQTTVQQRVELQRILSSIEEATRDVVMLERFNAAAEERLIPDIVVMQRNAQQLATKQALLDRQKTLKIPKDFSIESVIEKVDSLEQR |
| 1343 | sp|Q965Q8|XYLT\_CAEEL | MLFNGTTKYRDYAIVISLFFLLNVYLLYNTAQHTQVGNSKHISSDSGEKTSNPLPSCEITDDLAKSAISRAITPSCKAKLQLEACQLKNGTFTINFPENQCPNHDSRLIDQRIGCFLDKKEARVLTEFEYKLPKSNGKATCRKHCYKAGFLYFGLEFGHECFCGNDVSNATAVDDVECRAYKCPGNENSEEFCGGFNAVEIFRTGFRSKVNHRKPTYLPPSSDSIKNPVKILFLLQLNGRNERQVKRFLKSIYLPHHYYYIHVDARQNYMFSEMQKVADFLDNIHITERRFSTIWGGASLLQMFLQVIRDSMKIEKFKDWDYIINFSESDFPILPISDFERLITVNNGKSFLASHGYNTGKFIQKQGFEYVFSECDNRMFRIGKREFPQNLRIDGGSDWVGIHRNLAEFSISDEELPRKLRKTYESILLPLESFYHTLAFNSEFCDDLLMSNLRLTNWYRKQGCRCASLKPIVDWCGCSPLVFREETMKKFELQKAISKPTYFARKFDSMVDIDSIEAAEMQSISPEKLQLNHPTYHFAFANIFKTGIDEQKLHFESLANFALKSTETRAKFRKVLRIDALRAHHNALIEIVMKIETTDGATFEFLIHRLSHVNLTENEEKLVEHGYLLRAVSFGTKFEWKEELCREYMGFVTDNDTLHTRLQWHPTEHVKKVGDKTSPEMIFKYRKGDELIEQTVVKPYDSVFGGQFDSWNVGKKLSNLTTCSNFFVDIISPSSPDDAPPLATLHFPVYTDQNAHCHVDYLRQFFKIADFCTSGDACKEKIWSTSYPDPKSDIFVGYDEDTQTLI |
| 1344 | sp|Q15061|WDR43\_HUMAN | MAAGGGGSCDPLAPAGVPCAFSPHSQAYFALASTDGHLRVWETANNRLHQEYVPSAHLSGTCTCLAWAPARLQAKESPQRKKRKSEAVGMSNQTDLLALGTAVGSILLYSTVKGELHSKLISGGHDNRVNCIQWHQDSGCLYSCSDDKHIVEWNVQTCKVKCKWKGDNSSVSSLCISPDGKMLLSAGRTIKLWVLETKEVYRHFTGHATPVSSLMFTTIRPPNESQPFDGITGLYFLSGAVHDRLLNVWQVRSENKEKSAVMSFTVTDEPVYIDLTLSENKEEPVKLAVVCRDGQVHLFEHILNGYCKKPLTSNCTIQIATPGKGKKSTPKPIPILAAGFCSDKMSLLLVYGSWFQPTIERVALNSREPHMCLVRDISNCWAPKVETAITKVRTPVMNSEAKVLVPGIPGHHAAIKPAPPQTEQVESKRKSGGNEVSIEERLGAMDIDTHKKGKEDLQTNSFPVLLTQGLESNDFEMLNKVLQTRNVNLIKKTVLRMPLHTIIPLLQELTKRLQGHPNSAVLMVQWLKCVLTVHASYLSTLPDLVPQLGTLYQLMESRVKTFQKLSHLHGKLILLITQVTASEKTKGATSPGQKAKLVYEEESSEEESDDEIADKDSEDNWDEDEEESESEKDEDVEEEDEDAEGKDEENGEDRDTASEKELNGDSDLDPENESEEE |
| 1345 | sp|P49893|WN11B\_XENLA | MAPTRHWVTPLLLLCCSGICGAIQWLGLTVNGSRVAWNESEHCRLLDGLVPDQSQLCKRNLELMQSVVNAAKQTKLTCQMTLSDMRWNCSSVENAPSFTPDLSKGTRESAFVYALASATLSHTIARACASGELPTCSCGATPAEVPGTGFRWGGCGDNLHYGLNMGSAFVDAPMKSSKSAGTQATKIMNLHNNAVGRQVLMDSLETKCKCHGVSGSCSVKTCWKGLQDLPHIANELKSKYLGATKVIHRQTGTRRQLVPRELDIRPVRESELVYLVSSPDYCTKNPKLGSYGTQDRLCNKTSVGSDSCNLMCCGRGYNAYTETIVERCQCKYHWCCYVMCKKCERTVERYVCK |
| 1346 | sp|Q96J92|WNK4\_HUMAN | MLASPATETTVLMSQTEADLALRPPPPLGTAGQPRLGPPPRRARRFSGKAEPRPRSSRLSRRSSVDLGLLSSWSLPASPAPDPPDPPDSAGPGPARSPPPSSKEPPEGTWTEGAPVKAAEDSARPELPDSAVGPGSREPLRVPEAVALERRREQEEKEDMETQAVATSPDGRYLKFDIEIGRGSFKTVYRGLDTDTTVEVAWCELQTRKLSRAERQRFSEEVEMLKGLQHPNIVRFYDSWKSVLRGQVCIVLVTELMTSGTLKTYLRRFREMKPRVLQRWSRQILRGLHFLHSRVPPILHRDLKCDNVFITGPTGSVKIGDLGLATLKRASFAKSVIGTPEFMAPEMYEEKYDEAVDVYAFGMCMLEMATSEYPYSECQNAAQIYRKVTSGRKPNSFHKVKIPEVKEIIEGCIRTDKNERFTIQDLLAHAFFREERGVHVELAEEDDGEKPGLKLWLRMEDARRGGRPRDNQAIEFLFQLGRDAAEEVAQEMVALGLVCEADYQPVARAVRERVAAIQRKREKLRKARELEALPPEPGPPPATVPMAPGPPSVFPPEPEEPEADQHQPFLFRHASYSSTTSDCETDGYLSSSGFLDASDPALQPPGGVPSSLAESHLCLPSAFALSIPRSGPGSDFSPGDSYASDAASGLSDVGEGMGQMRRPPGRNLRRRPRSRLRVTSVSDQNDRVVECQLQTHNSKMVTFRFDLDGDSPEEIAAAMVYNEFILPSERDGFLRRIREIIQRVETLLKRDTGPMEAAEDTLSPQEEPAPLPALPVPLPDPSNEELQSSTSLEHRSWTAFSTSSSSPGTPLSPGNPFSPGTPISPGPIFPITSPPCHPSPSPFSPISSQVSSNPSPHPTSSPLPFSSSTPEFPVPLSQCPWSSLPTTSPPTFSPTCSQVTLSSPFFPPCPSTSSFPSTTAAPLLSLASAFSLAVMTVAQSLLSPSPGLLSQSPPAPPSPLPSLPLPPPVAPGGQESPSPHTAEVESEASPPPARPLPGEARLAPISEEGKPQLVGRFQVTSSKEPAEPLPLQPTSPTLSGSPKPSTPQLTSESSDTEDSAGGGPETREALAESDRAAEGLGAGVEEEGDDGKEPQVGGSPQPLSHPSPVWMNYSYSSLCLSSEESESSGEDEEFWAELQSLRQKHLSEVETLQTLQKKEIEDLYSRLGKQPPPGIVAPAAMLSSRQRRLSKGSFPTSRRNSLQRSEPPGPGIMRRNSLSGSSTGSQEQRASKGVTFAGDVGRM |
| 1347 | sp|Q9Z0G8|WIPF3\_RAT | MPVPPPPPPPLPPPPPPLGAPPPPPPPGPPISTDAPSLRKSDLKGRSALLADIQQGTRLRKVTQINDRSAPQIESSKGTSKEGGAAGSNARGGSTPPALGDLFAGGFPVLRPAGQRDVAGGKTGQGPGSRAPSPRLPTKAISGPLPAPASPRLGNASDTHSSARPVPPRPSVPAPPPPTTPPPPPPPPPPPPPPPLPPASPIKAPSVSPPVPPTKGNPSAVPAPIPCVPPLPPPPPTPPPLPPASALSEKAVRPQLAPLHLPPIPPPLPLLPPYGYPALHSEPSSPAQDVREPPAPPPPPPPPPPPPPPPLPTYASCSPRAAVAPPPPPLPGSSNSGSETPPPLPPKSPSFQTQKALPTPPGAPGPQIILQKKRRGPGAGGGKLNPPPAPPARSPTTELSSKTQQPGGQLRNGGQHVIDDFESKFTFHSMEDFPPPDEYKPGQKIYPSKVPRSRTPGSWLQAEAAGQSSDDIKTRNSQLSLKALR |
| 1348 | sp|Q8R5H6|WASF1\_MOUSE | MPLVKRNIDPRHLCHTALPRGIKNELECVTNISLANIIRQLSSLSKYAEDIFGELFNEAHSFSFRVNSLQERVDRLSVSVTQLDPKEEELSLQDITMRKAFRSSTIQDQQLFDRKTLPIPLQETYDVCEQPPPLNILTPYRDDGKEGLKFYTNPSYFFDLWKEKMLQDTEDKRKEKRKQKQKNLDRPHEPEKVPRAPHDRRREWQKLAQGPELAEDDADLLHKHIEVANGPASHYETRPQTYVDHMDGSYSLSALPFSQMSELLTRAEERVLVRPHEPPPPPPMHGAGDAKPTPTCISSATGLIENRPQSPAAGRTPVFVSPTPPPPPPPLPSALSTSSLRASMTSTPPPPVPPPPPPPATALQAPAVPPPPAPLQIAPGVLHPAPPPIAPPLVQPSPPVARAAPVCETVPVHPLPQGEVQGLPPPPPPPPLPPPGIRPSSPVAVAALAHPPSGLHPAPSTAPGPHAPLMPPSPPSQVLPASEPKRHPSTLPVISDARSVLLEAIRKGIQLRKVEEQREQEAKHERIENDVATILSRRIAVEYSDSEDDSEFDEVDWLE |
| 1349 | sp|Q9LP77|Y1848\_ARATH | MRVFFFPNSSMAILSVFLSLLLLSLPLPSTQDLNADRTALLSLRSAVGGRTFRWNIKQTSPCNWAGVKCESNRVTALRLPGVALSGDIPEGIFGNLTQLRTLSLRLNALSGSLPKDLSTSSNLRHLYLQGNRFSGEIPEVLFSLSHLVRLNLASNSFTGEISSGFTNLTKLKTLFLENNQLSGSIPDLDLPLVQFNVSNNSLNGSIPKNLQRFESDSFLQTSLCGKPLKLCPDEETVPSQPTSGGNRTPPSVEGSEEKKKKNKLSGGAIAGIVIGCVVGFALIVLILMVLCRKKSNKRSRAVDISTIKQQEPEIPGDKEAVDNGNVYSVSAAAAAAMTGNGKASEGNGPATKKLVFFGNATKVFDLEDLLRASAEVLGKGTFGTAYKAVLDAVTVVAVKRLKDVMMADKEFKEKIELVGAMDHENLVPLRAYYFSRDEKLLVYDFMPMGSLSALLHGNRGAGRSPLNWDVRSRIAIGAARGLDYLHSQGTSTSHGNIKSSNILLTKSHDAKVSDFGLAQLVGSSATNPNRATGYRAPEVTDPKRVSQKGDVYSFGVVLLELITGKAPSNSVMNEEGVDLPRWVKSVARDEWRREVFDSELLSLATDEEEMMAEMVQLGLECTSQHPDQRPEMSEVVRKMENLRPYSGSDQVNEAD |
| 1350 | sp|Q8VYT3|Y4052\_ARATH | MVVVTKKTMKIQIHLLYSFLFLCFSTLTLSSEPRNPEVEALISIRNNLHDPHGALNNWDEFSVDPCSWAMITCSPDNLVIGLGAPSQSLSGGLSESIGNLTNLRQVSLQNNNISGKIPPELGFLPKLQTLDLSNNRFSGDIPVSIDQLSSLQYLRLNNNSLSGPFPASLSQIPHLSFLDLSYNNLSGPVPKFPARTFNVAGNPLICRSNPPEICSGSINASPLSVSLSSSSGRRSNRLAIALSVSLGSVVILVLALGSFCWYRKKQRRLLILNLNDKQEEGLQGLGNLRSFTFRELHVYTDGFSSKNILGAGGFGNVYRGKLGDGTMVAVKRLKDINGTSGDSQFRMELEMISLAVHKNLLRLIGYCATSGERLLVYPYMPNGSVASKLKSKPALDWNMRKRIAIGAARGLLYLHEQCDPKIIHRDVKAANILLDECFEAVVGDFGLAKLLNHADSHVTTAVRGTVGHIAPEYLSTGQSSEKTDVFGFGILLLELITGLRALEFGKTVSQKGAMLEWVRKLHEEMKVEELLDRELGTNYDKIEVGEMLQVALLCTQYLPAHRPKMSEVVLMLEGDGLAERWAASHNHSHFYHANISFKTISSLSTTSVSRLDAHCNDPTYQMFGSSAFDDDDDHQPLDSFAMELSGPR |
| 1351 | sp|P25384|YC21B\_YEAST | MESQQLHQNPRSLHGSAYASVTSKEVPSNQDPLAVSASNLPEFDRDSTKVNSQQETTPGTSAVPENHHHVSPQPASVPPPQNGQYQQHGMMTPNKAMASNWAHYQQPSMMTCSHYQTSPAYYQPDPHYPLPQYIPPLSTSSPDPIDSQNQHSEVPQAETKVRNNVLPPHTLTSEENFSTWVKFYIRFLKNSNLGDIIPNDQGEIKRQMTYEEHAYIYNTFQAFAPFHLLPTWVKQILEINYADILTVLCKSVSKMQTNNQELKDWIALANLEYDGSTSADTFEITVSTIIQRLKENNINVSDRLACQLILKGLSGDFKYLRNQYRTKTNMKLSQLFAEIQLIYDENKIMNLNKPSQYKQHSEYKNVSRTSPNTTNTKVTTRNYQRTNSSKPRAAKAHNIATSSKFSRVNNDHINESTVSSQYLSDDNELSLGQQQKESKPTHTIDSNDELPDHLLIDSGASQTLVRSAHYLHHATPNSEINIVDAQKQDIPINAIGNLHFNFQNGTKTSIKALHTPNIAYDLLSLSELANQNITACFTRNTLERSDGTVLAPIVKHGDFYWLSKKYLIPSHISKLTINNVNKSKSVNKYPYPLIHRMLGHANFRSIQKSLKKNAVTYLKESDIEWSNASTYQCPDCLIGKSTKHRHVKGSRLKYQESYEPFQYLHTDIFGPVHHLPKSAPSYFISFTDEKTRFQWVYPLHDRREESILNVFTSILAFIKNQFNARVLVIQMDRGSEYTNKTLHKFFTNRGITACYTTTADSRAHGVAERLNRTLLNDCRTLLHCSGLPNHLWFSAVEFSTIIRNSLVSPKNDKSARQHAGLAGLDITTILPFGQPVIVNNHNPDSKIHPRGIPGYALHPSRNSYGYIIYLPSLKKTVDTTNYVILQDKQSKLDQFNYDTLTFDDDLNRLTAHNQSFIEQNETEQSYDQNTESDHDYQSEIEINSDPLVNDFSSQSINPLQLDKEPVQKVRAPKEVDADISEYNILPSPVRSRTPHIINKESTEMGGTVESDTTSPRHSSTFTARNQKRPGSPNDMIDLTSQDRVNYGLENIKTTRLGGTEEPYIQRNSDTNIKYRTTNSTPSIDDRSSNSESTTPIISIETKAVCDNTPSIDTDPPEYRSSDHATPNIMPDKSSKNVTADSILDDLPLPDLTHQSPTDTSDVSKDIPHIHSRQTNSSLGGMDDSNVLTTTKSKKRSLEDNETEIEVSRDTWNNKNMRSLEPPRSKKRINLIAAIKGVKSIKPVRTTLRYDEAITYNKDNKEKDRYVEAYHKEISQLLKMNTWDTNKYYDRNDIDPKKVINSMFIFNKKRDGTHKARFVARGDIQHPDTYDSDMQSNTVHHYALMTSLSIALDNDYYITQLDISSAYLYADIKEELYIRPPPHLGLNDKLLRLRKSLYGLKQSGANWYETIKSYLINCCDMQEVRGWSCVFKNSQVTICLFVDDMILFSKDLNANKKIITTLKKQYDTKIINLGESDNEIQYDILGLEIKYQRSKYMKLGMEKSLTEKLPKLNVPLNPKGKKLRAPGQPGHYIDQDELEIDEDEYKEKVHEMQKLIGLASYVGYKFRFDLLYYINTLAQHILFPSRQVLDMTYELIQFMWDTRDKQLIWHKNKPTKPDNKLVAISDASYGNQPYYKSQIGNIFLLNGKVIGGKSTKASLTCTSTTEAEIHAVSEAIPLLNNLSHLVQELNKKPIIKGLLTDSRSTISIIKSTNEEKFRNRFFGTKAMRLRDEVSGNNLYVYYIETKKNIADVMTKPLPIKTFKLLTNKWIH |
| 1352 | sp|B5DE31|YBOX1\_DANRE | MSSEAETQQPPQPAADAESPSSPAAAATAGDKKVIATKVLGTVKWFNVRNGYGFINRNDTKEDVFVHQTAIKKNNPRKYLRSVGDGETVEFDVVEGEKGAEAANVTGPGGVPVQGSKYAADRNRYRRYPRRRAPPRDYQENYQSDPEAEPREKREGAESAPEGEMQQQQRRPTYPGRRRYPPYFVRRRYGRRPPYTNSQRGEMTEGGEGEENQGGPDQGNKPMRQNYYRGFRPSRGPSRPRPVRDGEEDKENQSESGQNQEPRQRRYRRNFNYRRRRPQTTKPQDGKDSKAADASADKSAAPEAEQGGAD |
| 1353 | sp|Q9XFB1|YAB3\_ARATH | MSSMSMSSSSAPAFPPDHFSSTDQLCYVHCSFCDTVLAVSVPPSSLFKTVTVRCGHCSNLLSVTVSMRALLLPSVSNLGHSFLPPPPPPPPPNLLEEMRSGGQNINMNMMMSHHASAHHPNEHLVMATRNGRSVDHLQEMPRPPPANRPPEKRQRVPSAYNRFIKEEIQRIKAGNPDISHREAFSAAAKNWAHFPHIHFGLMADHPPTKKANVRQQEGEDGMMGREGFYGSAANVGVAHN |
| 1354 | sp|Q2EJA0|YAP1\_RAT | MEPAQQPPPQPAPQGPAPPSVSPAGTPAAPPAPPAGHQVVHVRGDSETDLEALFNAVMNPKTANVPQTVPMRLRKLPDSFFKPPEPKSHSRQASTDAGTAGALTPQHVRAHSSPASLQLGAGTLTASGVVSGPAATPAAQHLRQSSFEIPDDVPLPAGWEMAKTSSGQRYFLNHNDQTTTWQDPRKAMLSQLNVPTSASPAVPQTLMNSASGPLPDGWEQAMTQDGEVYYINHKNKTTSWLDPRLDPRFAMNQRITQSAPVKQPPPLAPQSPQGGVLGGGSSNQQQQIQLQQLQMEKERLRLKQQELFRQELALRSQLPSLEQDGGTQNAVSSPGMTQELRTMTTNSSDPFLNSGTYHSRDESTDSGLSMSSYSIPRTPDDFLNSVDEMDTGDTISQSTLPSQQSRFPDYLEALPGTNVDLGTLEGDAMNIEGEELMPSLQEALSSEILDVESVLAATKLDKESFLTWL |
| 1355 | sp|P53144|YGK1\_YEAST | MTAVNIWKPEDNIPREILAILSKPHPNYQLAFLNIIQLLKTQRRTGWVDHGIDPCESISDHMYRMGLTTMLITDKNVDRNKCIRIALVHDFAESLVGDITPNDPMTKEEKHRREFETVKYLCESIIRPCSESASREILDDWLAYEKQTCLEGRYVKDIDKYEMLVQCFEYEQKYNGKKDLKQFLGAINDIKTDEVKKWTQSLLEDRQAFFDSLKE |
| 1356 | sp|Q5EGY4|YKT6\_RAT | MKLYSLSVFYKGEPKAVLLKAAYDVSSFSFFQRSSVQEFMTFTSQLIVERSAKGSRASVKEQEYLCHVYVRSDSLAGVVIADSEYPSRVAFTLLEKVLDEFSKQVDRIDWPVGSPATIHYTALDGHLSRYQNPREADPMSKVQAELDETKIILHNTMESLLERGEKLDDLVSKSEVLGTQSKAFYKTARKQNSCCAIM |
| 1357 | sp|Q12273|YO11B\_YEAST | MESQQLSNYPQISHGSACASVTSKEVHTNQDPLDVSASKTEECEKASTKANSQQTTTPASSAVPENPHHASPQPASVPPPQNGPYPQQCMMTQNQANPSGWSFYGHPSMIPYTPYQMSPMYFPPGPQSQFPQYPSSVGTPLSTPSPESGNTFTDSSSADSDMTSTKKYVRPPPMLTSPNDFPNWVKTYIKFLQNSNLGGIIPTVNGKPVRQITDDELTFLYNTFQIFAPSQFLPTWVKDILSVDYTDIMKILSKSIEKMQSDTQEANDIVTLANLQYNGSTPADAFETKVTNIINRLNNNGIHINNKVACQLIMRGLSGEYKFLRYTRHRHLNMTVAELFLDIHAIYEEQQGSRNSKPNYRRNLSDEKNDSRSYTNTTKPKVIARNPQKTNNSKSKTARAHNVSTSNNSPSTDNDSISKSTTEPIQLNNKHDLHLGQELTESTVNHTNHSDDELPGHLLLDSGASRTLIRSAHHIHSASSNPDINVVDAQKRNIPINAIGDLQFHFQDNTKTSIKVLHTPNIAYDLLSLNELAAVDITACFTKNVLERSDGTVLAPIVKYGDFYWVSKKYLLPSNISVPTINNVHTSESTRKYPYPFIHRMLAHANAQTIRYSLKNNTITYFNESDVDWSSAIDYQCPDCLIGKSTKHRHIKGSRLKYQNSYEPFQYLHTDIFGPVHNLPKSAPSYFISFTDETTKFRWVYPLHDRREDSILDVFTTILAFIKNQFQASVLVIQMDRGSEYTNRTLHKFLEKNGITPCYTTTADSRAHGVAERLNRTLLDDCRTQLQCSGLPNHLWFSAIEFSTIVRNSLASPKSKKSARQHAGLAGLDISTLLPFGQPVIVNDHNPNSKIHPRGIPGYALHPSRNSYGYIIYLPSLKKTVDTTNYVILQGKESRLDQFNYDALTFDEDLNRLTASYQSFIASNEIQQSDDLNIESDHDFQSDIELHPEQPRNVLSKAVSPTDSTPPSTHTEDSKRVSKTNIRAPREVDPNISESNILPSKKRSSTPQISNIESTGSGGMHKLNVPLLAPMSQSNTHESSHASKSKDFRHSDSYSENETNHTNVPISSTGGTNNKTVPQISDQETEKRIIHRSPSIDASPPENNSSHNIVPIKTPTTVSEQNTEESIIADLPLPDLPPESPTEFPDPFKELPPINSHQTNSSLGGIGDSNAYTTINSKKRSLEDNETEIKVSRDTWNTKNMRSLEPPRSKKRIHLIAAVKAVKSIKPIRTTLRYDEAITYNKDIKEKEKYIEAYHKEVNQLLKMKTWDTDEYYDRKEIDPKRVINSMFIFNKKRDGTHKARFVARGDIQHPDTYDSGMQSNTVHHYALMTSLSLALDNNYYITQLDISSAYLYADIKEELYIRPPPHLGMNDKLIRLKKSLYGLKQSGANWYETIKSYLIKQCGMEEVRGWSCVFKNSQVTICLFVDDMILFSKDLNANKKIITTLKKQYDTKIINLGESDNEIQYDILGLEIKYQRGKYMKLGMENSLTEKIPKLNVPLNPKGRKLSAPGQPGLYIDQDELEIDEDEYKEKVHEMQKLIGLASYVGYKFRFDLLYYINTLAQHILFPSRQVLDMTYELIQFMWDTRDKQLIWHKNKPTEPDNKLVAISDASYGNQPYYKSQIGNIYLLNGKVIGGKSTKASLTCTSTTEAEIHAISESVPLLNNLSYLIQELNKKPIIKGLLTDSRSTISIIKSTNEEKFRNRFFGTKAMRLRDEVSGNNLYVYYIETKKNIADVMTKPLPIKTFKLLTNKWIH |
| 1358 | sp|P0C2J0|YP13B\_YEAST | MESQQLSNYPHISHGSACASVTSKEVHTNQDPLDVSASKIQEYDKASTKANSQQTTTPASSAVPENPHHASPQPASVPPPQNGPYPQQCMMTQNQANPSGWSFYGHPSMIPYTPYQMSPMYFPPGPQSQFPQYPSSVGTPLSTPSPESGNTFTDSSSADSDMTSTKKYVRPPPMLTSPNDFPNWVKTYIKFLQNSNLGGIIPTVNGKPVRPITDDELTFLYNTFQIFAPSQFLPTWVKDILSVDYTDIMKILSKSIEKMQSDTQEANDIVTLANLQYNGSTPADAFETKVTNIIDRLNNNGIHINNKVACQLIMRGLSGEYKFLRYTRHRHLNMTVAELFLDIHAIYEEQQGSRNSKPNYRRNPSDEKNDSRSYTNTTKPKVIARNPQKTNNSKSKTARAHNVSTSNNSPSTDNDSISKSTTEPIQLNNKHDLHLGQKLTESTVNHTNHSDDELPGHLLLDSGASRTLIRSAHHIHSASSNPDINVVDAQKRNIPINAIGDLQFHFQDNTKTSIKVLHTPNIAYDLLSLNELAAVDITACFTKNVLERSDGTVLAPIVKYGDFYWVSKKYLLPSNISVPTINNVHTSESTRKYPYPFIHRMLAHANAQTIRYSLKNNTITYFNESDVDWSSAIDYQCPDCLIGKSTKHRHIKGSRLKYQNSYEPFQYLHTDIFGPVHNLPKSAPSYFISFTDETTKFRWVYPLHDRREDSILDVFTTILAFIKNQFQASVLVIQMDRGSEYTNRTLHKFLEKKNGITPCYTTTADSRAHGVAERLNRTLLDDCRTQLQCSGLPNHLWFSAIEFSTIVRNSLASPKSKKSARQHAGLAGLDISTLLPFGQPVIVNDHNPNSKIHPRGIPGYALHPSRNSYGYIIYLPSLKKTVDTTNYVILQGKESRLDQFNYDALTFDEDLNRLTASYHSFIASNEIQESNDLNIESDHDFQSDIELHPEQPRNVLSKAVSPTDSTPPSTHTEDSKRVSKTNIRAPREVDPNISESNILPSKKRSSTPQISNIESTGSGGMHKLNVPLLAPMSQSNTHESSHASKSKDFRHSDSYSENETNHTNVPISSTGGTNNKTVPQISDQETEKRIIHRSPSIDASPPENNSSHNIVPIKTPTTVSEQNTEESIIADLPLPDLPPESPTEFPDPFKELPPINSHQTNSSLGGIGDSNAYTTINSKKRSLEDNETEIKVSRDTWNTKNMRSLEPPRSKKRIHLIAAVKAVKSIKPIRTTLRYDEAITYNKDIKEKEKYIEAYHKEVNQLLKMNTWDTDKYYDRKEIDPKRVINSMFIFNRKRDGTHKARFVARGDIQHPDTYDSGMQSNTVHHYALMTSLSLALDNNYYITQLDISSAYLYADIKEELYIRPPPHLGMNDKLIRLKKSLYGLKQSGANWYETIKSYLIKQCGMEEVRGWSCVFKNSQVTICLFVDDMILFSKDLNANKKIITTLKKQYDTKIINLGESDNEIQYDILGLEIKYQRGKYMKLGMENSLTEKIPKLNVPLNPKGRKLSAPGQPGLYIDQDELEIDEDEYKEKVHEMQKLIGLASYVGYKFRFDLLYYINTLAQHILFPSRQVLDMTYELIQFMWDTRDKQLIWHKNKPTEPDNKLVAISDASYGNQPYYKSQIGNIYLLNGKVIGGKSTKASLTCTSTTEAEIHAISESVPLLNNLSHLVQELNKKPITKGLLTDSKSTISIIISNNEEKFRNRFFGTKAMRLRDEVSGNHLHVCYIETKKNIADVMTKPLPIKTFKLLTNKWIH |
| 1359 | sp|P32795|YME1\_YEAST | MNVSKILVSPTVTTNVLRIFAPRLPQIGASLLVQKKWALRSKKFYRFYSEKNSGEMPPKKEADSSGKASNKSTISSIDNSQPPPPSNTNDKTKQANVAVSHAMLATREQEANKDLTSPDAQAAFYKLLLQSNYPQYVVSRFETPGIASSPECMELYMEALQRIGRHSEADAVRQNLLTASSAGAVNPSLASSSSNQSGYHGNFPSMYSPLYGSRKEPLHVVVSESTFTVVSRWVKWLLVFGILTYSFSEGFKYITENTTLLKSSEVADKSVDVAKTNVKFDDVCGCDEARAELEEIVDFLKDPTKYESLGGKLPKGVLLTGPPGTGKTLLARATAGEAGVDFFFMSGSEFDEVYVGVGAKRIRDLFAQARSRAPAIIFIDELDAIGGKRNPKDQAYAKQTLNQLLVELDGFSQTSGIIIIGATNFPEALDKALTRPGRFDKVVNVDLPDVRGRADILKHHMKKITLADNVDPTIIARGTPGLSGAELANLVNQAAVYACQKNAVSVDMSHFEWAKDKILMGAERKTMVLTDAARKATAFHEAGHAIMAKYTNGATPLYKATILPRGRALGITFQLPEMDKVDITKRECQARLDVCMGGKIAEELIYGKDNTTSGCGSDLQSATGTARAMVTQYGMSDDVGPVNLSENWESWSNKIRDIADNEVIELLKDSEERARRLLTKKNVELHRLAQGLIEYETLDAHEIEQVCKGEKLDKLKTSTNTVVEGPDSDERKDIGDDKPKIPTMLNA |
| 1360 | sp|P32939|YPT7\_YEAST | MSSRKKNILKVIILGDSGVGKTSLMHRYVNDKYSQQYKATIGADFLTKEVTVDGDKVATMQVWDTAGQERFQSLGVAFYRGADCCVLVYDVTNASSFENIKSWRDEFLVHANVNSPETFPFVILGNKIDAEESKKIVSEKSAQELAKSLGDIPLFLTSAKNAINVDTAFEEIARSALQQNQADTEAFEDDYNDAINIRLDGENNSCSC |
| 1361 | sp|Q9USP2|YND1\_SCHPO | MVRKYGIFIDAGSSGSRLLIYSWDYDTDSSLSDKVKKLPLIETGIGDGGKWSLKVQPGISSFANNPKHVGKKHLKELLDFAAHAIPKDVHKETPVFLSATAGMRLLGVDAQNKILSHACRYIKKNYDFDIPNCSNSIRVIDGKAEGMYGWLATNYLLKTLEEKDTSTVGFLDMGGASVQIAFELPPSQLKNYKDSISTVHIGLQNGQQLEYPLFVTTWLGFGANEAYRRYLGLLIESENGKVGNTLSDPCSLRGRTYDIDGIEFAGTGDLKQCLKLTYNLLNKDKPCSMDPCNFDGISIPPVDFANTEFVGVSEFWYTTNDVFDMGGSYHFPNFYKKVDEYCGTEWETMLSRLYNKELTPSTDENKLEKLCFKASWALNVLHEGFDVPKSNTSSNDAKDGLSVIPAYHSPFTSLEKIERTEVSWTLGQVLLYASNQQLLAKPEYANYYMDPYGKLIASPSKHWMRLFPNKLFFILSFIFCLFFLFSLVLFGYDPKRRQRFKKFLLRLQRRKAPYIMSANGSYEDIADFSDDLEMSSPSKWHGPPIRTTSSHVLADRLSFTASRERTPRSPFP |
| 1362 | sp|O31611|YJBM\_BACSU | MDDKQWERFLVPYRQAVEELKVKLKGIRTLYEYEDDHSPIEFVTGRVKPVASILEKARRKSIPLHEIETMQDIAGLRIMCQFVDDIQIVKEMLFARKDFTVVDQRDYIAEHKESGYRSYHLVVLYPLQTVSGEKHVLVEIQIRTLAMNFWATIEHSLNYKYSGNIPEKVKLRLQRASEAASRLDEEMSEIRGEVQEAQAAFSRKKKGSEQQ |
| 1363 | sp|Q9UDW3|ZMAT5\_HUMAN | MGKRYFCDYCDRSFQDNLHNRKKHLNGLQHLKAKKVWYDMFRDAAAILLDEQNKRPCRKFLLTGQCDFGSNCRFSHMSERDLQELSIQVEEERRAREWLLDAPELPEGHLEDWLEKRAKRLSSAPSSRAEPIRTTVFQYPVGWPPVQELPPSLRAPPPGGWPLQPRVQWG |
| 1364 | sp|Q8TD23|ZN675\_HUMAN | MGLLTFRDVAIEFSLEEWQCLDTAQRNLYKNVILENYRNLVFLGIAVSKQDLITCLEQEKEPLTVKRHEMVNEPPVMCSHFAQEFWPEQNIKDSFEKVTLRRYEKCGNDNFQLKGCKSVDECKLHKGGYNGLNQCLPTMQSKMFQCDKYVKVFNKFSHSDRHKIKHMENKPFKCKECGRSFCMLSHLTRHERNYTKVNFCKCEECEKAVNQSSKLTKHKRIYTCEKLYKCQECDRTFNQFSNLTEYKKDYAREKPYKCEECGKAFNQSSHLTTHKIIHTGEKPYKCEECGKAFNQFSNLTTHKKIHTGEQPYICEECGKAFTQSSTLTTHKRIHTGEKPYKCEECGKAFNRSSKLTEHKNIHTGEQPYKCEECGKAFNRSSNLTEHRKIHTEEKPYKCKECGKAFKHSSALTTHKRIHTGEKPYKCEECGKAFNRSSKLTEHKKLHTGKKPYKCEECGKAFIQSSKLTEHKKIHSGEIPYKCEECGKAFKHSSSLTTHKRIHTGEKPYKCEECGKAFSRSSKLTEHKIIHTGEKPYKCERCDKAFNQSANLTKHKKIHTGEKLQNWNV |
| 1365 | sp|Q9HC78|ZBT20\_HUMAN | MLERKKPKTAENQKASEENEITQPGGSSAKPGLPCLNFEAVLSPDPALIHSTHSLTNSHAHTGSSDCDISCKGMTERIHSINLHNFSNSVLETLNEQRNRGHFCDVTVRIHGSMLRAHRCVLAAGSPFFQDKLLLGYSDIEIPSVVSVQSVQKLIDFMYSGVLRVSQSEALQILTAASILQIKTVIDECTRIVSQNVGDVFPGIQDSGQDTPRGTPESGTSGQSSDTESGYLQSHPQHSVDRIYSALYACSMQNGSGERSFYSGAVVSHHETALGLPRDHHMEDPSWITRIHERSQQMERYLSTTPETTHCRKQPRPVRIQTLVGNIHIKQEMEDDYDYYGQQRVQILERNESEECTEDTDQAEGTESEPKGESFDSGVSSSIGTEPDSVEQQFGPGAARDSQAEPTQPEQAAEAPAEGGPQTNQLETGASSPERSNEVEMDSTVITVSNSSDKSVLQQPSVNTSIGQPLPSTQLYLRQTETLTSNLRMPLTLTSNTQVIGTAGNTYLPALFTTQPAGSGPKPFLFSLPQPLAGQQTQFVTVSQPGLSTFTAQLPAPQPLASSAGHSTASGQGEKKPYECTLCNKTFTAKQNYVKHMFVHTGEKPHQCSICWRSFSLKDYLIKHMVTHTGVRAYQCSICNKRFTQKSSLNVHMRLHRGEKSYECYICKKKFSHKTLLERHVALHSASNGTPPAGTPPGARAGPPGVVACTEGTTYVCSVCPAKFDQIEQFNDHMRMHVSDG |
| 1366 | sp|Q99ML9|RN111\_MOUSE | MSQWTPEFNELYTLKVAMKSGTPDAPTTQESLKAVLLHPQPLGATKSFPAEVEMINSKVGNEFSHLCDDSQKQEKDMTGNQQEQEKSGVVRKKRKSQQAGPSYVQNCVKENQEILGRRQQLETPSDEDNDSSLSECLSSPSSSLHFGGSDTVTSDEDKEVSVRHTQPVLSAKSRSHSARSHKWPRTEADPVPSLLMKRPCFHGSALRRVTCRKRLVKSSSSQRTQKQKERMLVQRKKREALAQRKYALLSSSSSSSENDLSSDSSSSSSTDGEEDLCASASENPSNPAAPSGSIDEDVVVIEASFTPQVTANEEINVTSTDSEVEIVTVGESYRSRSTLGHSRSHWSQGSSSHTGRPQESRNRSRISTVIQPLRQNAAEVVDLTVDEDEPTIVPTTSARMDSQTTSASINNSNPSTSEQASDTTSTVASSQPSTVSETEATLTSNSATGSSVGDDVRRTASSAVPESGPPAMPRLPSCCPQHSPCGGTSQSHHALAHPHSSCFQQHGHHFQHHHHHHHTPHPAVPVSPSFSDPACPVERPQVQAPCGANSSSGSSYHDQQALPVDLSNSALRTHGSGGFHGASAFDPCCPVTSSRAAVFGHQAAAAPTQPLSIDGYGSSMVAQPQPQPPPQPSLSSCRHYMPPPYASLTRPLHHQASACHHSHGNAPPQTQPPPQVDYVIPHPVHAFHSQISSHAASHPVAPPPPTHLGSTAAPIPQHLPPAHQPISHHIPAPAPSAQRLHPHEVMQRMEVQRRRMMQHPTRAHERPPPHPHRMHPNYGHGHHIHVPQTMSSHPRQAPERTAWELGIEAGVTAATYTPGALHPHLAHYHAPPRLHHLQLGALPLMVPDMAGYPHIRYISSGLDGASFRGPFRGNFEELIHLEERLGNVNRGASQGTIERCTYPHKYKKVTTDWFSQRKLHCKQDGEEGTEEDTEEKCTICLSILEEGEDVRRLPCMHLFHQVCVDQWLITNKKCPICRVDIEAQLPSES |
| 1367 | sp|Q7Z7H8|RM10\_HUMAN | MAAAVAGMLRGGLLPQAGRLPTLQTVRYGSKAVTRHRRVMHFQRQKLMAVTEYIPPKPAIHPSCLPSPPSPPQEEIGLIRLLRREIAAVFQDNRMIAVCQNVALSAEDKLLMRHQLRKHKILMKVFPNQVLKPFLEDSKYQNLLPLFVGHNMLLVSEEPKVKEMVRILRTVPFLPLLGGCIDDTILSRQGFINYSKLPSLPLVQGELVGGLTCLTAQTHSLLQHQPLQLTTLLDQYIREQREKDSVMSANGKPDPDTVPDS |
| 1368 | sp|Q8VCC8|RPGF3\_MOUSE | MKVSWPGENHWQVGPAVVESPAVGAPQVGGLPDVVPEGTLLNMVLKRMHRPRCCSYQLVFEHRRPSCIQGLRWTPLTNSEDSLDFRVSLEQATTEHVHKAGKLLHRHLLATYPTLIRDRKYHLRLYRHCCSGRELVDGILALGLGVHSRSQAVGICQVLLDEGALCHVKHDWTFQDRDAQFYRFPGPEPEPTGTQDVEEELVEAMALLSQRGPDALLTVALRKPPGQRTDEELDLIFEELLHIKAVAHLSNSVKRELAAVLLFEPHSKAGTVLFSQGDKGTSWYIIWKGSVNVVTHGKGLVTTLHEGDDFGQLALVNDAPRAATIILRENNCHFLRVDKQDFNRIIKDVEAKTMRLEEHGKVVLVLERTSQGAGPSRPPTPGRNRYTVMSGTPEKILELLLEAMRPDSSAHDPTETFLSDFLLTHSVFMPSTQLFTALLHHFHVEPADPAGGSEQEHSTYICNKRQQILRLVGRWVALYSPMLHSDPVATSFLQKLSDLVSRDARLSNLLREQYPERRRHHRLENGCGNVSPQTKARNAPVWLPNQEEPLPSSAGAIRVGDKVPYDICRPDHSVLTLHLPVTASVREVMAALAHEDHWTKGQVLVKVNSAGDVVGLQPDARGVATSLGLNERLFVVDPQEVHELTPHPEQLGPTLGSSEMLDLVSAKDLAGQLTDHDWNLFNRIHQVQEHLRDVTTANLERFMRRFNELQYWVATELCLCPVPGSRAQLLRKFIKLAAHLKEQKNLNSFFAVMFGLSNSAISRLAHTWERLPHKVRKLYSALERLLDPSWNHRVYRLALTKLSPPVIPFMPLLLKDVTFIHEGNHTLVENLINFEKMRMMARAVRMLHHCRSHSTAPLSPLRSRVSHIHEDSQGSRISTCSEQSLSTRSPASTWAYVQQLKVIDNQRELSRLSRELEP |
| 1369 | sp|P36160|RPF2\_YEAST | MIRTVKPKNARAKRALVKREAKLVENVKQALFIPGQSCNKNLHDIMVDLSALKKPDMKRFNRKNDIHPFEDMSPLEFFSEKNDCSLMVLMTSSKKRKNNMTFIRTFGYKIYDMIELMVADNFKLLSDFKKLTFTVGLKPMFTFQGAAFDTHPVYKQIKSLFLDFFRGESTDLQDVAGLQHVISMTIQGDFQDGEPLPNVLFRVYKLKSYKSDQGGKRLPRIELVEIGPRLDFKIGRIHTPSPDMVTEAHKKPKQLEMKTKKNVELDIMGDKLGRIHMGKQDLGKLQTRKMKGLKSKFDQGTEEGDGEVDEDYEDEASYSDDGQEYEEEFVSATDIEPSAKRQKK |
| 1370 | sp|Q03465|RPN4\_YEAST | MASTELSLKRTLTDILEDELYHTNPGHSQFTSHYQNYHPNASITPYKLVNKNKENNTFTWNHSLQHQNESSAASIPPQQTYHFPIFNKYADPTLTTTTSFTTSEATANDRQINNVHLIPNEIKGASETPLQKTVNLKNIMKVSDPYVPTRNTFNYDVKISNDFFDNGDNLYGNDEEVLFYEDNYNPKMQWSLQDNSAAINNEDARAIFNNEFDSDDDDISDDEEDEIEENCLQQEQHQEEPLLSLDVTPISMFGSDQKTGRAKSSSHLFNEYSYVDSNMDSISSVVSEDLLDERGHEKIEDEDEDNDLDEDDIYDISLLKNRRKQSFVLNKNTIDFERFPSPSTSANVPSTATTGKRKPAKSSSNRSCVSNSNENGTLERIKKPTSAVVSSNASRRKLINYTKKHLSSHSSTNSNSKPSTASPSAHTSSSDGNNEIFTCQIMNLITNEPCGAQFSRSYDLTRHQNTIHAKRKIVFRCSECIKILGSEGYQKTFSRLDALTRHIKSKHEDLSLEQRQEVTKFAKANIGYVMG |
| 1371 | sp|Q5NCP0|RNF43\_MOUSE | MSGGHQLQLAVLWPWLLMATLHAGFGHTGRVLAAAVESERSAEQKAVIRVIPLKMDPTGKLNLTLEGVFAGVAEVTPAEGKLMQSHPLYLCNASDDDNLEPGFISIVKLESPRRAPRPCLSLASKARMAGERGANAVLFDITEDRSAAEQLQQPLGLTKPVVLIWGSDAAKLMEFVYKNRKAYVWIELKEPPAGANYDVWILLTVVGTVFVIILASVLRIRCRPHHSRPDPLQQRTARAISQLATRRYQAGCRRARAEWPDSGSSCSSTPVCAICLEEFSEGQELRVISCLHEFHRTCVDPWLYQHRTCPLCMFNIVEGDSFSQAPAASPSYQEPGRRLHLIRQHPGHAHYHLPSAYLLGPSRTSVARTPRPRPFLPSQEPSMGSRHQRLPRTSHLRAPEEQQHLAVSPHPYAQGWGLNRLRCTSQHPAACPVALRRARPHESSGSGESYCTERSGYLADGPASDSSSGPCHGSSSDSVVNCTDVSLQGIHGSSSTFRSSLSSDFDPLVYCSPEGDLQGKGIQPSVTSRPRSLDSVVPRGETQVSSHIHYHRHRHHHYKRQFQWHGRKPGPETGIPQSMPAASHTQLEPSLPDQQLITPNPTASSMLPNPQRPRALTEPAPGLAEASSPSPSPKPNPSGLLNLQKSSLTVRHPHRKRRGGPSEPLPTSLPPDLTVHTACPVFPHYSPRLAYPWPPEVHPLMFRPPGPDRRLLHEVPGPCYSSSQPVWLYLNPCQPLGPCLPGEGHSKWTFDSPEGRRCPYSHCQVLPAQPGSEEELEELCEQAV |
| 1372 | sp|Q96EP0|RNF31\_HUMAN | MPGEEEERAFLVAREELASALRRDSGQAFSLEQLRPLLASSLPLAARYLQLDAARLVRCNAHGEPRNYLNTLSTALNILEKYGRNLLSPQRPRYWRGVKFNNPVFRSTVDAVQGGRDVLRLYGYTEEQPDGLSFPEGQEEPDEHQVATVTLEVLLLRTELSLLLQNTHPRQQALEQLLEDKVEDDMLQLSEFDPLLREIAPGPLTTPSVPGSTPGPCFLCGSAPGTLHCPSCKQALCPACDHLFHGHPSRAHHLRQTLPGVLQGTHLSPSLPASAQPRPQSTSLLALGDSSLSSPNPASAHLPWHCAACAMLNEPWAVLCVACDRPRGCKGLGLGTEGPQGTGGLEPDLARGRWACQSCTFENEAAAVLCSICERPRLAQPPSLVVDSRDAGICLQPLQQGDALLASAQSQVWYCIHCTFCNSSPGWVCVMCNRTSSPIPAQHAPRPYASSLEKGPPKPGPPRRLSAPLPSSCGDPEKQRQDKMREEGLQLVSMIREGEAAGACPEEIFSALQYSGTEVPLQWLRSELPYVLEMVAELAGQQDPGLGAFSCQEARRAWLDRHGNLDEAVEECVRTRRRKVQELQSLGFGPEEGSLQALFQHGGDVSRALTELQRQRLEPFRQRLWDSGPEPTPSWDGPDKQSLVRRLLAVYALPSWGRAELALSLLQETPRNYELGDVVEAVRHSQDRAFLRRLLAQECAVCGWALPHNRMQALTSCECTICPDCFRQHFTIALKEKHITDMVCPACGRPDLTDDTQLLSYFSTLDIQLRESLEPDAYALFHKKLTEGVLMRDPKFLWCAQCSFGFIYEREQLEATCPQCHQTFCVRCKRQWEEQHRGRSCEDFQNWKRMNDPEYQAQGLAMYLQENGIDCPKCKFSYALARGGCMHFHCTQCRHQFCSGCYNAFYAKNKCPEPNCRVKKSLHGHHPRDCLFYLRDWTALRLQKLLQDNNVMFNTEPPAGARAVPGGGCRVIEQKEVPNGLRDEACGKETPAGYAGLCQAHYKEYLVSLINAHSLDPATLYEVEELETATERYLHVRPQPLAGEDPPAYQARLLQKLTEEVPLGQSIPRRRK |
| 1373 | sp|Q99KR6|RNF34\_MOUSE | MKAGATSMWASCCGLLNEVMGTGAVRGQQAGFPGSTGPFRFTPSSDFPTYPPAATEGPNIVCKACGLSFSVFRKKHVCCDCKKDFCSLCSVSQENLRRCSTCHLLQETAFQRPQLMRLKVKDLRQYLLLRNIPTDTCREKEDLVDLVLCHRGLGSGDDLDSSSLNSSRSQTSSFFTQSLFSNYTPPSATVSSFQGELMDRDGAFRSEVLAQVQSEIASANTDDDDDDDDDDDDDEDDDDEQEEEEQNPGLSKKKARASLSDLSSLEEVEGMSVRQLKEILARNFVNYSGCCEKWELVEKVNRLYKENEENQKSYGERMQLQDEEDDSLCRICMDAVIDCVLLECGHMVTCTKCGKRMSECPICRQYVVRAVHVFKS |
| 1374 | sp|Q06502|RPOA\_LDVC | MQSGFDRCLCTPNARVFWERGQVYCTRCLAARPLLPLSQQHPRLGALGLFYRPASPLSWEAPVTYPTKECRPGGMCWLSSIYPIARMTSGNHNFQARLNFIASVVYRDGKLTSKHLEEDFEVYSRGCRWYPITGPVPGIALYANAVHVSDESFPGATHVLSNLPLPQQPLRKGLCPFADARANVWRYKGNTVFVSPQGYLWTTGSNDSVPEPWGEDRRLCEKIISSLPADHLVKINFSNYPFDYSFTGGDGAGFVVFPCKERDTKFSKCWEKIFEDHSGWMAACEEADLADRMGYRTPAGVAGPYLARRLQVRGLRAVVKPENNDYIVWALGVPESYIRHVSRAGEPVEEFFVKVGEFSIVSNCVVTPHPKFRFQTRKYYGYSPPGDGACGLHCISAMLNDIFGDSFTTRLGKCSRDSSEWLSDQDLYQLVMTANLPATIGHCPSAIYKLDCVNQHWTVTKRKGDRAVGRLAPDCLRGVCGECEMGIHIGADTDLSPIVELQLAQDVSPRPGALLWFLELHELCVVDDDFAHAIARAGEEYRRAMGIPRDDWVILAELMTENCRTRHQVLEKLQRGLQLQASSRPSSPASVSPASSVDLSAAGLLLSGTESDKEAVVAVNDGCYTVLGFDKNEATKSEQDLATDLFCDLVKPMETSTTKLESRKILEAAAKALESCKPKRKRSRKKKTRTPSPTCSVDAAVAEPTSVNSLGNQDTRETCASEKKAEKCPTPTPPPRPKRAALKNSNSGCVLKDIIWNQTGPGVKCLTIVEDVRAFLKGITPPGGVLSTRSRITKHIVDHFHSICEQTPELVLAHAEHQAKNLHELLASETAKLILGIGEDPLKKLVGSQRSLPRRLGFGAWLGGQQKTSGGCGEREFKDVGRKSGAERTPSKRDLGVSLGDQLSQDGARRLSSSTACEIKESVPPIIDSGGGLSQKFMAWLNHQVFVLSSHLLAVWSFIFGSRQVLGVFDYVYTLFCLCCVLLCFYLPAIGFMTLVGCVFGSPWRVRLSVFSVWLCVAVVVFQEVLPEPGAVCTSASAERAAALERYTSNGVHRPVNHLSVGLVGTVAGFVARSVGGPRRYWFYFLRLMVLLDLGLVFLAVALRGSCKKCFCKCVRTASHEVQLRVFPSTKVARTTLEAICDMYSAPRVDPIFIATGVRGCWTGSVSPHQVTEKPVSYSNLDDKKISNKTVVPPPTDPQQAVRCLKVLQCGGSIQDVSVPEVKKVTKVPFKAPFFPNVTIDPECYIVVDPVTYSAAMRGGYGVSHLIVGLGDFAEVNGLRFVSGGQIADFVCLGLYVLLNFLLSAWLSSPVSCGRGTNDPWCRNPFSYPVVGQGVMCNSHLCVAEDGLTSPMTLSYSLIDWALMVAIMATVAIFFAKISLLVDVVCVFCCLLMYAFPSLSIAAFGFPFVLCKVSLHPITLVWVQFFLLAVNVWAGVASVVVLISSWFLARATSSLGLITPYDVHMITATPRGASSLASAPEGTYLAAVRRSALTGRCCMFVPTNFGSVLEGSLRTRGCAKNVVSVFGSASGSGGVFTINGNPVVVTASHLLSDGKARVSCVGFSQCLDFKCAGDYAFARVANWKGDAPKAELSHRRGRAYCSPLVGLSLDLLGKNSAFCFTKCGDSGSPVVDEDGNLLGIHTGSNKRGSGMVTTHGGKTLGMANVKLSEMCPHYSGPGVPVSTVKLPKHLVVDVETVSSDLVAVVESLPALEGALSSMQLLCVFFFLWRLIHVPDVPVIRIAFFFLNEILPVMLARLMFSFALSLFFCVHWLFCSSVAVAFGDCCSKSVTGYSVQVLLLRLVIAALNRPCGPFGFSLLGQLSQCCLMLCLLDIELQLLGCLYLGQLLMWPPKEIFFHPTGQFMFLPLFLSLFKRNALADMLVGNGCFDAAFFLKYFAEGNLRDGVSDSCNMTPEGLTAALAITLSDDDLEFLQRHSEFKCFVSASNMRNGAKEFIESAYARALRAQLAATDKIKASKSILAKLESFAGGVVTQVEPGDVVVVLGKKVIGDLVEVVINDAKHVIRVIETRTMAGTQFSVGTICGDLENACEDPSGLVKTSKKQARRQKRTGLGTEVVGTVVIDGVSYNKVWHIATGDVTYEGCLVTENPQLRPLGMTTIGRFQEFIRKHGEKVKTSVEKYPVGKKKSVEFNITTYLLDGEEYDVPDHEPLEWTITIGESDLEAERLTVDQALRHMGHDSLLTAKEKEKLARIIESLNGLQQASALNCLATSGLDRCTRGGLTVSGDAVKLVRYHSRTFSIGDVNLKVMGREEYGRTVGKQGHCLVANLVDGVVVMRKHEPSLVDVLLTGEDADLISPTHGPGNTGVHGFTWDFEAPPTDLELELSEQIITACSIRRGDAPSLDLPYKLHPVRGNPYRDRGVLYNTRFGDIKYLTPQKTKEPLHAAACFNPKGVPVSDSETLVATTLPHGFELYVPTIPQSVLEYLDSRPMHRKCCVRAVVRGLAECDLQKFDLSRQGFVLPGVLYMVRRYLCRLVGIRRRLFLPSTYPAKNSMAGINGNRFPTHVVQSHPDIDALCERACKEHWQTVTPCTLKKQYCSKAKTRTILGTNNFVALGLRSALSGVTQGFMRKGIGSPICLGKNKFTPLPTKVSGRCLEADLASCDRSTPAIIRWFTTNLLFELAGPEEWIPSYVLNCCHDAVSTMSGCFDKRGGLSSGDPVTSVSNTVYSLVIYAQHMVLSAFRCGHKVGGLFLRDSLEMEQLFELQPLLVYSDDVVLYDESSELPNYHFFVDHLDLMLGFKTDRSKTVITSDPQFPGCRIAAGRVLVPQRDRILAALAYHMKASCVSDYFASAAAILMDACACCDYDEDWYFDLVCGIADCARKEGFRFPGPSFYVDMWKRLSVEEKKKCRTCAHCGAPSTLVSSCGLNLCDYHGHGHPHCPVVLPCGHAVGSGVCDGCSSPVMSLNTELDKLLACVPYHPPKVELLSVNDGVSSLPPGRYQARGGVVSVRRDILGNVVDLPDGDYQVMKVAQTCADICMVSINSHILRSQFITGAPGTGKTTYLLSVVRDDDVIYTPTHRTMLDVVKALGTCRFDPPKDTPLEFPVPSRTGPCVRLIRAGFIPGRVSYLDEAAYCNPLDVLKILSKTPLVCVGDLNQLPPVDFIGPCYAFALMLGRQLIEVFRFGPSIVNPIKKFYREELVSRGPDTGVKFLKSYQPYGQVLTPYHRDRVDGAITIDSSQGCTYDVITVYLPTPKSLNSARALVAITRARFYVFVYDPHNQLEQYLNMSEHEPAGAVAFWCGEQPMMISEGRVQRLSGPAQTTDPKLQQLMGLEGTASPLPQVAHNLGFYYSPDLVQFARIPSELCKHWPVVTAQNRTDWPDRLVCSMSKIDKCSRAIFCAGYHVGPSVFLGVPGVVSYYLTKFLKGKPVPLPDSLMSTGRIALNVREYLDEKEMEFSSRCPHAFIGEVKGSNVGGCHHVTSRYLPPVLVPGSVVKIGVSCPGKAAKELCTVTDVYLPELDPYLNPPTKSMDYKLLVDFQPVKLMVWKDATAYFHEGIRPMESMSRFLKVPQEEGVFFDLDEFVTNAKVSKLPCKYSVSANQFLTDVVLSMTHPSLAPPDYELLFARAYCVPGLDVGTLNAYIYRRGPSTYTTSNIARLVKDICCPVGCKGSGYMFPK |
| 1375 | sp|Q03395|ROM1\_HUMAN | MAPVLPLVLPLQPRIRLAQGLWLLSWLLALAGGVILLCSGHLLVQLRHLGTFLAPSCQFPVLPQAALAAGAVALGTGLVGVGASRASLNAALYPPWRGVLGPLLVAGTAGGGGLLVVGLGLALALPGSLDEALEEGLVTALAHYKDTEVPGHCQAKRLVDELQLRYHCCGRHGYKDWFGVQWVSSRYLDPGDRDVADRIQSNVEGLYLTDGVPFSCCNPHSPRPCLQNRLSDSYAHPLFDPRQPNQNLWAQGCHEVLLEHLQDLAGTLGSMLAVTFLLQALVLLGLRYLQTALEGLGGVIDAGGETQGYLFPSGLKDMLKTAWLQGGVACRPAPEEAPPGEAPPKEDLSEA |
| 1376 | sp|O64973|RPS5\_ARATH | MGGCFSVSLPCDQVVSQFSQLLCVRGSYIHNLSKNLASLQKAMRMLKARQYDVIRRLETEEFTGRQQRLSQVQVWLTSVLIIQNQFNDLLRSNEVELQRLCLCGFCSKDLKLSYRYGKRVIMMLKEVESLSSQGFFDVVSEATPFADVDEIPFQPTIVGQEIMLEKAWNRLMEDGSGILGLYGMGGVGKTTLLTKINNKFSKIDDRFDVVIWVVVSRSSTVRKIQRDIAEKVGLGGMEWSEKNDNQIAVDIHNVLRRRKFVLLLDDIWEKVNLKAVGVPYPSKDNGCKVAFTTRSRDVCGRMGVDDPMEVSCLQPEESWDLFQMKVGKNTLGSHPDIPGLARKVARKCRGLPLALNVIGEAMACKRTVHEWCHAIDVLTSSAIDFSGMEDEILHVLKYSYDNLNGELMKSCFLYCSLFPEDYLIDKEGLVDYWISEGFINEKEGRERNINQGYEIIGTLVRACLLLEEERNKSNVKMHDVVREMALWISSDLGKQKEKCIVRAGVGLREVPKVKDWNTVRKISLMNNEIEEIFDSHECAALTTLFLQKNDVVKISAEFFRCMPHLVVLDLSENQSLNELPEEISELASLRYFNLSYTCIHQLPVGLWTLKKLIHLNLEHMSSLGSILGISNLWNLRTLGLRDSRLLLDMSLVKELQLLEHLEVITLDISSSLVAEPLLCSQRLVECIKEVDFKYLKEESVRVLTLPTMGNLRKLGIKRCGMREIKIERTTSSSSRNKSPTTPCFSNLSRVFIAKCHGLKDLTWLLFAPNLTFLEVGFSKEVEDIISEEKAEEHSATIVPFRKLETLHLFELRGLKRIYAKALHFPCLKVIHVEKCEKLRKLPLDSKSGIAGEELVIYYGEREWIERVEWEDQATQLRFLPSSRWRWRET |
| 1377 | sp|Q15050|RRS1\_HUMAN | MEGQSVEELLAKAEQDEAEKLQRITVHKELELQFDLGNLLASDRNPPTGLRCAGPTPEAELQALARDNTQLLINQLWQLPTERVEEAIVARLPEPTTRLPREKPLPRPRPLTRWQQFARLKGIRPKKKTNLVWDEVSGQWRRRWGYQRARDDTKEWLIEVPGNADPLEDQFAKRIQAKKERVAKNELNRLRNLARAHKMQLPSAAGLHPTGHQSKEELGRAMQVAKVSTASVGRFQERLPKEKVPRGSGKKRKFQPLFGDFAAEKKNQLELLRVMNSKKPQLDVTRATNKQMREEDQEEAAKRRKMSQKGKRKGGRQGPGGKRKGGPPSQGGKRKGGLGGKMNSGPPGLGGKRKGGQRPGGKRRK |
| 1378 | sp|P53256|RRP46\_YEAST | MSVQAEIGILDHVDGSSEFVSQDTKVICSVTGPIEPKARQELPTQLALEIIVRPAKGVATTREKVLEDKLRAVLTPLITRHCYPRQLCQITCQILESGEDEAEFSLRELSCCINAAFLALVDAGIALNSMCASIPIAIIKDTSDIIVDPTAEQLKISLSVHTLALEFVNGGKVVKNVLLLDSNGDFNEDQLFSLLELGEQKCQELVTNIRRIIQDNISPRLVV |
| 1379 | sp|P38792|RRP4\_YEAST | MSEVITITKRNGAFQNSSNLSYNNTGISDDENDEEDIYMHDVNSASKSESDSQIVTPGELVTDDPIWMRGHGTYFLDNMTYSSVAGTVSRVNRLLSVIPLKGRYAPETGDHVVGRIAEVGNKRWKVDIGGKQHAVLMLGSVNLPGGILRRKSESDELQMRSFLKEGDLLNAEVQSLFQDGSASLHTRSLKYGKLRNGMFCQVPSSLIVRAKNHTHNLPGNITVVLGVNGYIWLRKTSQMDLARDTPSANNSSSIKSTGPTGAVSLNPSITRLEEESSWQIYSDENDPSISNNIRQAICRYANVIKALAFCEIGITQQRIVSAYEASMVYSNVGELIEKNVMESIGSDILTAEKMRGNGN |
| 1380 | sp|P46782|RS5\_HUMAN | MTEWETAAPAVAETPDIKLFGKWSTDDVQINDISLQDYIAVKEKYAKYLPHSAGRYAAKRFRKAQCPIVERLTNSMMMHGRNNGKKLMTVRIVKHAFEIIHLLTGENPLQVLVNAIINSGPREDSTRIGRAGTVRRQAVDVSPLRRVNQAIWLLCTGAREAAFRNIKTIAECLADELINAAKGSSNSYAIKKKDELERVAKSNR |
| 1381 | sp|Q62991|SCFD1\_RAT | MVGSKMAASIRERQTVALKRMLNFNVPHVKNSPGEPVWKVLIYDRFGQDIISPLLSVKELRDMGITLHLLLHSDRDPIRDVPAVYFVMPTEENIDRLCQDLRNQLYESYYLNFISAISRSKLEDIANAALAANAVTQVAKVFDQYLNFITLEEDMFVLCNQNKELVSYRAINRPDITDTEMETVMDTIVDSLFCFFVTLGAVPIIRCSRGTAAEMVAVKLDKKLRENLRDARNSLFTGDPLGTGQFSFQRPLLVLVDRNIDLATPLHHTWTYQALVHDVLDFHLNRVNLEESTGVENSPTGARPKRKNKKSYDLTPVDKFWQKHKGSPFPEVAESVQQELESYRAQEDEVKRLKSIMGLEGEDEGAISMLSDNTAKLTSAVSSLPELLEKKRLIDLHTNVATAVLEHIKARKLDVYFEYEEKIMSKTTLDKSLLDVISDPDAGTPEDKMRLFLIYYISAQQAPSEVDLEQYKKALTDAGCNLSPLQYIKQWKAFAKMASTPASYGNTTTKPMGLLSRVMNTGSQFVMEGVKNLVLKQQNLPVTRILDNLMEMKSNPETDDYRYFDPKMLRSNDSSVPRNKSPFQEAIVFVVGGGNYIEYQNLVDYIKGKQGKHILYGCSEIFNATQFIKQLSQLGQK |
| 1382 | sp|A5D7L5|S39AE\_BOVIN | MELLRPALPSYFLLTLLSIWTAASEARAVSTGMPTISAASFLQNLMHRYGEGDSLTLQQLKALLNHLDVGVGRGNISQPVQGPRNLSTCFSSGELFAAHNLSHQSQIGEREFQEFCPTILQQLDSRACSSENQENEENEQTEEGRPSSVEVWGYGLLCVTVISLCSLLGASVVPFMKKTFYKRLLLYFIALAIGTLYSNALFQLIPEAFGFNPMEDYYVSKSAVVFGGFYLFFFTEKILKMLLKQKNEHHHGHSHYTSETLPSQKDQEEGVTEKLQNGDLDHMIPQHCSGELDGKTPVVDEKVIVGSLSVQDLQASQSACHWLKGVRYSDIGTLAWMITLSDGLHNFIDGLAIGASFTVSVFQGISTSVAILCEEFPHELGDFVILLNAGMSLQQALFFNFLSACCCYVGLGFGILAGSHFSANWIFALAGGMFLYISLADMFPEMNEVSQEDERKGSALIPFVIQNLGLLTGFGIMLVLTMYSGHIQIG |
| 1383 | sp|Q96FL8|S47A1\_HUMAN | MEAPEEPAPVRGGPEATLEVRGSRCLRLSAFREELRALLVLAGPAFLVQLMVFLISFISSVFCGHLGKLELDAVTLAIAVINVTGVSVGFGLSSACDTLISQTYGSQNLKHVGVILQRSALVLLLCCFPCWALFLNTQHILLLFRQDPDVSRLTQTYVTIFIPALPATFLYMLQVKYLLNQGIVLPQIVTGVAANLVNALANYLFLHQLHLGVIGSALANLISQYTLALLLFLYILGKKLHQATWGGWSLECLQDWASFLRLAIPSMLMLCMEWWAYEVGSFLSGILGMVELGAQSIVYELAIIVYMVPAGFSVAASVRVGNALGAGDMEQARKSSTVSLLITVLFAVAFSVLLLSCKDHVGYIFTTDRDIINLVAQVVPIYAVSHLFEALACTSGGVLRGSGNQKVGAIVNTIGYYVVGLPIGIALMFATTLGVMGLWSGIIICTVFQAVCFLGFIIQLNWKKACQQAQVHANLKVNNVPRSGNSALPQDPLHPGCPENLEGILTNDVGKTGEPQSDQQMRQEEPLPEHPQDGAKLSRKQLVLRRGLLLLGVFLILLVGILVRFYVRIQ |
| 1384 | sp|O75159|SOCS5\_HUMAN | MDKVGKMWNNFKYRCQNLFGHEGGSRSENVDMNSNRCLSVKEKNISIGDSTPQQQSSPLRENIALQLGLSPSKNSSRRNQNCATEIPQIVEISIEKDNDSCVTPGTRLARRDSYSRHAPWGGKKKHSCSTKTQSSLDADKKFGRTRSGLQRRERRYGVSSVHDMDSVSSRTVGSRSLRQRLQDTVGLCFPMRTYSKQSKPLFSNKRKIHLSELMLEKCPFPAGSDLAQKWHLIKQHTAPVSPHSTFFDTFDPSLVSTEDEEDRLRERRRLSIEEGVDPPPNAQIHTFEATAQVNPLYKLGPKLAPGMTEISGDSSAIPQANCDSEEDTTTLCLQSRRQKQRQISGDSHTHVSRQGAWKVHTQIDYIHCLVPDLLQITGNPCYWGVMDRYEAEALLEGKPEGTFLLRDSAQEDYLFSVSFRRYNRSLHARIEQWNHNFSFDAHDPCVFHSSTVTGLLEHYKDPSSCMFFEPLLTISLNRTFPFSLQYICRAVICRCTTYDGIDGLPLPSMLQDFLKEYHYKQKVRVRWLEREPVKAK |
| 1385 | sp|O35913|SO1A4\_RAT | MGKSEKRVATHGVRCFAKIKMFLLALTCAYVSKSLSGTYMNSMLTQIERQFGIPTSIVGLINGSFEIGNLLLIIFVSYFGTKLHRPIMIGVGCAVMGLGCFLISLPHFLMGQYEYETILPTSNVSSNSFFCVENRSQTLNPTQDPSECVKEMKSLMWIYVLVGNIIRGIGETPIMPLGISYIEDFAKSENSPLYIGILETGMTIGPLIGLLLASSCANIYVDIESVNTDDLTITPTDTRWVGAWWIGFLVCAGVNILTSFPFFFFPKTLPKEGLQENVDGTENAKEKKHRKKAKEEKRGITKDFFVFMKSLSCNPIYMLFILISVLQFNAFINSFTFMPKYLEQQYGKSTAEVVFLMGLYMLPPICLGYLIGGLIMKKFKVTVKKAAHLAFWLCLSEYLLSFLSYVMTCDNFPVAGLTTSYEGVQHQLYVENKVLADCNTRCNCSTNTWDPVCGDNGLAYMSACLAGCEKSVGTGTNMVFQNCSCIQSSGNSSAVLGLCNKGPDCANKLQYFLIIAIFGCFIYSLAGIPGYMVLLRCIKSEEKSLGVGLHAFCIRILAGIPAPIYFGALIDRTCLHWGTLKCGEPGACRMYDINSFRRLYLGLPAALRGASFVPAFFILRLTRTFQFPGDIESSKTDHAEMKLTLKESECTEVLRSKVTED |
| 1386 | sp|P36048|SN114\_YEAST | MEGDDLFDEFGNLIGVDPFDSDEEESVLDEQEQYQTNTFEGSGNNNEIESRQLTSLGSKKELGISLEHPYGKEVEVLMETKNTQSPQTPLVEPVTERTKLQEHTIFTQLKKNIPKTRYNRDYMLSMANIPERIINVGVIGPLHSGKTSLMDLLVIDSHKRIPDMSKNVELGWKPLRYLDNLKQEIDRGLSIKLNGSTLLCTDLESKSRMINFLDAPGHVNFMDETAVALAASDLVLIVIDVVEGVTFVVEQLIKQSIKNNVAMCFVINKLDRLILDLKLPPMDAYLKLNHIIANINSFTKGNVFSPIDNNIIFASTKLGFTFTIKEFVSYYYAHSIPSSKIDDFTTRLWGSVYYHKGNFRTKPFENVEKYPTFVEFILIPLYKIFSYALSMEKDKLKNLLRSNFRVNLSQEALQYDPQPFLKHVLQLIFRQQTGLVDAITRCYQPFELFDNKTAHLSIPGKSTPEGTLWAHVLKTVDYGGAEWSLVRIYSGLLKRGDTVRILDTSQSESRQKRQLHDISKTETSNEDEDEDDETPSCEVEEIGLLGGRYVYPVHEAHKGQIVLIKGISSAYIKSATLYSVKSKEDMKQLKFFKPLDYITEAVFKIVLQPLLPRELPKLLDALNKISKYYPGVIIKVEESGEHVILGNGELYMDCLLYDLRASYAKIEIKISDPLTVFSESCSNESFASIPVSNSISRLGEENLPGLSISVAAEPMDSKMIQDLSRNTLGKGQNCLDIDGIMDNPRKLSKILRTEYGWDSLASRNVWSFYNGNVLINDTLPDEISPELLSKYKEQIIQGFYWAVKEGPLAEEPIYGVQYKLLSISVPSDVNIDVMKSQIIPLMKKACYVGLLTAIPILLEPIYEVDITVHAPLLPIVEELMKKRRGSRIYKTIKVAGTPLLEVRGQVPVIESAGFETDLRLSTNGLGMCQLYFWHKIWRKVPGDVLDKDAFIPKLKPAPINSLSRDFVMKTRRRKGISTGGFMSNDGPTLEKYISAELYAQLRENGLVP |
| 1387 | sp|P39928|SLN1\_YEAST | MRFGLPSKLELTPPFRIGIRTQLTALVSIVALGSLIILAVTTGVYFTSNYKNLRSDRLYIAAQLKSSQIDQTLNYLYYQAYYLASRDALQSSLTSYVAGNKSADNWVDSLSVIQKFLSSSNLFYVAKVYDSSFNAVLNATNNGTGDLIPEDVLDSLFPLSTDTPLPSSLETIGILTDPVLNSTDYLMSMSLPIFANPSIILTDSRVYGYITIIMSAEGLKSVFNDTTALEHSTIAIISAVYNSQGKASGYHFVFPPYGSRSDLPQKVFSIKNDTFISSAFRNGKGGSLKQTNILSTRNTALGYSPCSFNLVNWVAIVSQPESVFLSPATKLAKIITGTVIAIGVFVILLTLPLAHWAVQPIVRLQKATELITEGRGLRPSTPRTISRASSFKRGFSSGFAVPSSLLQFNTAEAGSTTSVSGHGGSGHGSGAAFSANSSMKSAINLGNEKMSPPEEENKIPNNHTDAKISMDGSLNHDLLGPHSLRHNDTDRSSNRSHILTTSANLTEARLPDYRRLFSDELSDLTETFNTMTDALDQHYALLEERVRARTKQLEAAKIEAEAANEAKTVFIANISHELRTPLNGILGMTAISMEETDVNKIRNSLKLIFRSGELLLHILTELLTFSKNVLQRTKLEKRDFCITDVALQIKSIFGKVAKDQRVRLSISLFPNLIRTMVLWGDSNRIIQIVMNLVSNALKFTPVDGTVDVRMKLLGEYDKELSEKKQYKEVYIKKGTEVTENLETTDKYDLPTLSNHRKSVDLESSATSLGSNRDTSTIQEEITKRNTVANESIYKKVNDREKASNDDVSSIVSTTTSSYDNAIFNSQFNKAPGSDDEEGGNLGRPIENPKTWVISIEVEDTGPGIDPSLQESVFHPFVQGDQTLSRQYGGTGLGLSICRQLANMMHGTMKLESKVGVGSKFTFTLPLNQTKEISFADMEFPFEDEFNPESRKNRRVKFSVAKSIKSRQSTSSVATPATNRSSLTNDVLPEVRSKGKHETKDVGNPNMGREEKNDNGGLEQLQEKNIKPSICLTGAEVNEQNSLSSKHRSRHEGLGSVNLDRPFLQSTGTATSSRNIPTVKDDDKNETSVKILVVEDNHVNQEVIKRMLNLEGIENIELACDGQEAFDKVKELTSKGENYNMIFMDVQMPKVDGLLSTKMIRRDLGYTSPIVALTAFADDSNIKECLESGMNGFLSKPIKRPKLKTILTEFCAAYQGKKNNK |
| 1388 | sp|Q9H4F8|SMOC1\_HUMAN | MLPARCARLLTPHLLLVLVQLSPARGHRTTGPRFLISDRDPQCNLHCSRTQPKPICASDGRSYESMCEYQRAKCRDPTLGVVHRGRCKDAGQSKCRLERAQALEQAKKPQEAVFVPECGEDGSFTQVQCHTYTGYCWCVTPDGKPISGSSVQNKTPVCSGSVTDKPLSQGNSGRKDDGSKPTPTMETQPVFDGDEITAPTLWIKHLVIKDSKLNNTNIRNSEKVYSCDQERQSALEEAQQNPREGIVIPECAPGGLYKPVQCHQSTGYCWCVLVDTGRPLPGTSTRYVMPSCESDARAKTTEADDPFKDRELPGCPEGKKMEFITSLLDALTTDMVQAINSAAPTGGGRFSEPDPSHTLEERVVHWYFSQLDSNSSNDINKREMKPFKRYVKKKAKPKKCARRFTDYCDLNKDKVISLPELKGCLGVSKEGRLV |
| 1389 | sp|Q08473|SQD\_DROME | MAENKQVDTEINGEDFTKDVTADGPGSENGDAGAAGSTNGSSDNQSAASGQRDDDRKLFVGGLSWETTEKELRDHFGKYGEIESINVKTDPQTGRSRGFAFIVFTNTEAIDKVSAADEHIINSKKVDPKKAKARHGKIFVGGLTTEISDEEIKTYFGQFGNIVEVEMPFDKQKSQRKGFCFITFDSEQVVTDLLKTPKQKIAGKEVDVKRATPKPENQMMGGMRGGPRGGMRGGRGGYGGRGGYNNQWDGQGSYGGYGGGYGGYGAGGYGDYYAGGYYNGYDYGYDGYGYGGGFEGNGYGGGGGGNMGGGRGGPRGGGGPKGGGGFNGGKQRGGGGRQQRHQPY |
| 1390 | sp|P09671|SODM\_MOUSE | MLCRAACSTGRRLGPVAGAAGSRHKHSLPDLPYDYGALEPHINAQIMQLHHSKHHAAYVNNLNATEEKYHEALAKGDVTTQVALQPALKFNGGGHINHTIFWTNLSPKGGGEPKGELLEAIKRDFGSFEKFKEKLTAVSVGVQGSGWGWLGFNKEQGRLQIAACSNQDPLQGTTGLIPLLGIDVWEHAYYLQYKNVRPDYLKAIWNVINWENVTERYTACKK |
| 1391 | sp|Q9H6Q3|SLAP2\_HUMAN | MGSLPSRRKSLPSPSLSSSVQGQGPVTMEAERSKATAVALGSFPAGGPAELSLRLGEPLTIVSEDGDWWTVLSEVSGREYNIPSVHVAKVSHGWLYEGLSREKAEELLLLPGNPGGAFLIRESQTRRGSYSLSVRLSRPASWDRIRHYRIHCLDNGWLYISPRLTFPSLQALVDHYSELADDICCLLKEPCVLQRAGPLPGKDIPLPVTVQRTPLNWKELDSSLLFSEAATGEESLLSEGLRESLSFYISLNDEAVSLDDA |
| 1392 | sp|P62316|SMD2\_HUMAN | MSLLNKPKSEMTPEELQKREEEEFNTGPLSVLTQSVKNNTQVLINCRNNKKLLGRVKAFDRHCNMVLENVKEMWTEVPKSGKGKKKSKPVNKDRYISKMFLRGDSVIVVLRNPLIAGK |
| 1393 | sp|O97676|SRBP1\_PIG | MDEPPFTEAALEQALAEPCELDAALLTDIEDMLQLINNQDSDFPGLFDAPYAGVAGGTDPTSPDASSPGSPTPPPSTMSSPLEGFLGGARTPPPPPVSPTQPAPTPLKMYPSVPAFSPGPGIKEEPVPLTILQPPTPQPLSGALLPQSLPALAPPQLSPAPVLGYPSPPGSFSSATPPGSTSQTLPGLPLASLPGVLPVSVHTQVQSAAPQQLLTATATPVVSPGTTTVTSQIQQVPVLLQPHFIKADSLLLTTMKTDMGTPVKAAGIGSLAPGTAVQAAPLQTLVSGGTILATVPLVVDTDKLPINRLAAGGKALSSGQSRGEKRTAHNAIEKRYRSSINDKIIELKDLVVGTEAKLNKSAVLRKAIDYIRFLQQSNQKLKQENLSLRTAAHKSKSLKDLVSCSSGGRTDVPMEGVKPEVVDTLSPPPSDAGSPSQSSPLSLGSRGSSSGGSGSDSEPDSPVFEDSQMKPEQLPAPHGRGMLDRSRLALCVLVFLCLSCNPLASLMGSWALPGPSDATSAYHGPWRSVLGAEGRDGPGWVLWLLPPLVWLTNGLLVLLFLALLFVYGEPVTRPHSDPAVRFWRHRKQADLDLARGDFAQAAQQLWLALRALGRPLPTSHLDLACSLLWNLIRHLLQRLWVGRWLAGRAGGLRRDSALEADTRTSACDAALVYHKLHQLHTMGKYPGGHLDAANLALSALNLAECAGDALSVAVLAEVYVAAALRVKTSLPRALHFLTRFFLSSARQACLAQSGSVPVAMQWLCHPVGHRFFVDGDWAVCGAPRDSLYSVAGNPVDPLAQVTQLFREHLLEQALHCVAQPSPGPGSADGDREFSEALGFLQLLNSCCDTAGAPACSFSIASSTAATAGTDPVAKWWASLTAVVTHWLGRDEEAAERLYPLVEHLPRALQESERPLPRAALHSFKAARALLGRGKAESGSASLAMCEKASGYLQDSLAATPAGSSIDKAMQLLLCDLLLVARTSLWQRQKPPPPSQASQGSSSGAQASALELRGFQRDLSGLRRLAQSFRPAMRRVFLHEATARLMAGASPARTHQLLDRSLRRRAGPCGRGGAAAAAAAELEPRPTRREQAEALLLASCYLPPGFLSAPGQRVGMLAEAARTLEKLGDRRLLHDCQQMLMRLGGGTTVTSS |
| 1394 | sp|G8JZT0|SUSE\_BACTN | MKKISNILLAVTFALPLFTACETDNDSNPILNEPDTFTLNTPAYAANNVYDLKNAQTVELTCSQPDYGFPAATTYTVQASFEQDFIEATDESKANYTVLESTSPTAKINVDASELNNALLDLWTAVNGEQAELPTEPVAVYIRLKANITSSGKGVCFSNVIELPNVLISKSTSSLTPPKTMFIVGSMLDTDWKVWKPMAGVYGMDGQFYSMIYFDANSEFKFGTKENEYIGINDNRVTVTDKAGAGVSGSDNFVVENAGWYLFYVKAAVKGDDYQFTITFYPAEVYLFGNTTGGSWAFNDEWKFTVPATKDGNFVSPAMTASGEVRMCFKTDLDWWRTEFTLHDGEIFYRDFNLIDSWTEKGDGYSIQGSAGNVIHLNFTAGTGEKK |
| 1395 | sp|O70257|STX7\_RAT | MSYTPGIGGDPAQLAQRISSNIQKITQCSAEIQRTLNQLGTPQDTPELRQQLQQEQQYTNQLAKETDKYIKEFGFLPTTPSEQRQRKIQKDRLVAEFTTALTNFQKVQRQAAEREKEFVARVRASSRVSGGFPEDSSKEKNFVSWESQTQPQVQVQDEEITEDDLRLIHERESSIRQLEADIMDINEIFKDLGMMIHEQGDVIDSIEANVESAEVHVQQANQQLSRAANYQRKSRKTLCIIILILVVGIVIIFFIVWGLKG |
| 1396 | sp|P28668|SYEP\_DROME | MSIKLKANLNNPPISGLATAHLINGTVPVEIVWSKEETSLQFPDNRLLVCHSNNDVLRALARAAPDYKLYGETAIERTQIDHWLSFSLTCEDDISWALSFLDKSIAPVTYLVANKLTIADFALFNEMHSRYEFLAAKGIPQHVQRWYDLITAQPLIQKVLQSLPEDAKVKRSPQSSKEQTPAKTGERKQEGKFVDLPGAEMGKVVVRFPPEASGYLHIGHAKAALLNQYYALAFQGTLIMRFDDTNPAKETVEFENVILGDLEQLQIKPDVFTHTSNYFDLMLDYCVRLIKESKAYVDDTPPEQMKLEREQRVESANRSNSVEKNLSLWEEMVKGSEKGQKYCVRAKIDMSSPNGCMRDPTIYRCKNEPHPRTGTKYKVYPTYDFACPIVDAIENVTHTLRTTEYHDRDDQFYWFIDALKLRKPYIWSYSRLNMTNTVLSKRKLTWFVDSGLVDGWDDPRFPTVRGIIRRGMTVEGLKEFIIAQGSSKSVVFMNWDKIWAFNKKVIDPIAPRYTALEKEKRVIVNVAGAKVERIQVSVHPKDESLGKKTVLLGPRIYIDYVDAEALKEGENATFINWGNILIRKVNKDASGNITSVDAALNLENKDFKKTLKLTWLAVEDDPSAYPPTFCVYFDNIISKAVLGKDEDFKQFIGHKTRDEVPMLGDPELKKCKKGDIIQLQRRGFFKVDVAYAPPSGYTNVPSPIVLFSIPDGHTKDVPTSGLKVNAPDAKATKKASSPVSSSGQASELDSQISQQGDLVRDLKSKKAAKDQIDVAVKKLLALKADYKSATGKDWKPGQTSASSAPVPAASSSSANDAVSVNASIVKQGDLVRDLKGKKASKPEIDAAVKTLLELKAQYKTLTGQDWKPGTVPTTAAPSASAAPSVGVNDSVAQILSQITAQGDKVRELKSAKADKATVDAAVKTLLSLKADYKAATGSDWKPGTTAPAPAAAPVKVKQEKNPDPASVLTVNTLLNKIAQQGDKIRQLKSAKSEKSLVEAEVKLLLALKTDYKSLTGQEWKPGTVAPAPTTVNVIDLTGGDSGSDVGSVLSKIQAQGDKIRKLKSEKAAKNVIDPEVKTLLALKGEYKTLSGKDWTPDAKSEPAVVKKEASPVSMASPAKDELTQEINAQGEKVRAAKGNKAAKEVIDAEVAKLLALKAKYKEVTGTDFPVAGRGGGGGGGSAKKAPKEAQPKPAKPVKKEPAADASGAVKKQTRLGLEATKEDNLPDWYSQVITKGEMIEYYDVSGCYILRQWSFAIWKAIKTWFDAEITRMGVKECYFPIFVSKAVLEKEKTHIADFAPEVAWVTKSGDSDLAEPIAVRPTSETVMYPAYAKWVQSYRDLPIRLNQWNNVVRWEFKQPTPFLRTREFLWQEGHTAFADKEEAAKEVLDILDLYALVYTHLLAIPVVKGRKTEKEKFAGGDYTTTVEAFISASGRAIQGATSHHLGQNFSKMFEIVYEDPETQQKKYVYQNSWGITTRTIGVMIMVHADNQGLVLPPHVACIQAIVVPCGITVNTKDDERAQLLDACKALEKRLVGGGVRCEGDYRDNYSPGWKFNHWELKGVPLRLEVGPKDLKAQQLVAVRRDTVEKITIPLADVEKKIPALLETIHESMLNKAQEDMTSHTKKVTNWTDFCGFLEQKNILLAPFCGEISCEDKIKADSARGEEAEPGAPAMGAKSLCIPFDQPAPIAASDKCINPSCTNKPKFYTLFGRSY |
| 1397 | sp|P14868|SYDC\_HUMAN | MPSASASRKSQEKPREIMDAAEDYAKERYGISSMIQSQEKPDRVLVRVRDLTIQKADEVVWVRARVHTSRAKGKQCFLVLRQQQFNVQALVAVGDHASKQMVKFAANINKESIVDVEGVVRKVNQKIGSCTQQDVELHVQKIYVISLAEPRLPLQLDDAVRPEAEGEEEGRATVNQDTRLDNRVIDLRTSTSQAVFRLQSGICHLFRETLINKGFVEIQTPKIISAASEGGANVFTVSYFKNNAYLAQSPQLYKQMCICADFEKVFSIGPVFRAEDSNTHRHLTEFVGLDIEMAFNYHYHEVMEEIADTMVQIFKGLQERFQTEIQTVNKQFPCEPFKFLEPTLRLEYCEALAMLREAGVEMGDEDDLSTPNEKLLGHLVKEKYDTDFYILDKYPLAVRPFYTMPDPRNPKQSNSYDMFMRGEEILSGAQRIHDPQLLTERALHHGIDLEKIKAYIDSFRFGAPPHAGGGIGLERVTMLFLGLHNVRQTSMFPRDPKRLTP |
| 1398 | sp|Q99909|SSX3\_HUMAN | MNGDDTFARRPTVGAQIPEKIQKAFDDIAKYFSKEEWEKMKVSEKIVYVYMKRKYEAMTKLGFKAILPSFMRNKRVTDFQGNDFDNDPNRGNQVQRPQMTFGRLQGIFPKIMPKKPAEEGNVSKEVPEASGPQNDGKQLCPPGKPTTSEKINMISGPKRGEHAWTHRLRERKQLVIYEEISDPEEDDE |
| 1399 | sp|Q93ZY3|STT3A\_ARATH | MAALESPLPGTPTAMRNAFGNVLSVLILVLIGVLAFSIRLFSVIKYESVIHEFDPYFNYRVTQFLSKNGIYEFWNWFDDRTWYPLGRVIGGTVYPGLTLTAGTIWWGLNSLNIPLSVETVCVFTAPVFSAFASWATYLLTKEVKGSGAGLAAAALLAMVPSYISRSVAGSYDNEAVAIFALIFTFYLYIKTLNTGSLFYATLNALAYFYMVCSWGGYTFIINLIPMHVLLCIVTGRYSPRLYIAYAPLVVLGTLLAALVPVVGFNAVLTSEHFASFLVFIIIHVVALVYYIKGILSPKMFKVAVTLVVSIGMVVCFIVVAILVALVASSPTGGWSGRSLSLLDPTYASKYIPIIASVSEHQPPTWPSYFMDINVLAFLVPAGIIACFSPLSDASSFVVLYIVMSVYFSGVMVRLMLVLAPAACIMSGIALSQAFDVFTGSIKYQLGASSNSTDDAEDNTSTNNAPKDDVSAGKTDKGEEIVKERSSKKGKKKEREPADKPSVKAKIKKKALVLPLEASIVALLLLIMLGAFYVIHCVWAAAEAYSAPSIVLTSQSRDGLHVFDDFRESYAWLSHNTDVDDKVASWWDYGYQTTAMANRTVIVDNNTWNNTHIATVGTAMSSPEKAAWEIFNSLDVKYVLVVFGGLIGYPSDDINKFLWMVRIGGGVFPHIKEADYLRDGQYRIDSEATPTMLNSLMYKLSYYRFVETDGKGYDRVRRTEIGKKHFKLTHFEEVFTSHHWMVRLYKLKPPRNRIRGKAKKLKSKTSSGLSSKSAKKNPWV |
| 1400 | sp|A4K2T0|STK4\_MACMU | METVQLRNPPRRQLKKLDEDSLTKQPEEVFDVLEKLGEGSYGSVYKAIHKETGQIVAIKQVPVESDLQEIIKEISIMQQCDSPHVVKYYGSYFKNTDLWIVMEYCGAGSVSDIIRLRNKTLTEDEIATILQSTLKGLEYLHFMRKIHRDIKAGNILLNTEGHAKLADFGVAGQLTDTMAKRNTVIGTPFWMAPEVIQEIGYNCVADIWSLGITAIEMAEGKPPYADIHPMRAIFMIPTNPPPTFRKPELWSDNFTDFVKQCLVKSPEQRATATQLLQHPFVKSAKGVSILRDLINEAMDVKLKRQESQQREVDQDDEENSEEDEMDSGTMVRAVGDEMGTVRVASTMTDGASTMIEHDDTLPSQLGTMVINTEDEEEEGTMKRRDETMQPAKPSFLEYFEQKEKENQINSFGKSVPGPLKNSSDWKIPQDGDYEFLKSWTVEDLQKRLLALDPMMEQEIEEIRQKYQSKRQPILDAIEAKKRRQQNF |
| 1401 | sp|Q14849|STAR3\_HUMAN | MSKLPRELTRDLERSLPAVASLGSSLSHSQSLSSHLLPPPEKRRAISDVRRTFCLFVTFDLLFISLLWIIELNTNTGIRKNLEQEIIQYNFKTSFFDIFVLAFFRFSGLLLGYAVLRLRHWWVIAVTTLVSSAFLIVKVILSELLSKGAFGYLLPIVSFVLAWLETWFLDFKVLPQEAEEERWYLAAQVAVARGPLLFSGALSEGQFYSPPESFAGSDNESDEEVAGKKSFSAQEREYIRQGKEATAVVDQILAQEENWKFEKNNEYGDTVYTIEVPFHGKTFILKTFLPCPAELVYQEVILQPERMVLWNKTVTACQILQRVEDNTLISYDVSAGAAGGVVSPRDFVNVRRIERRRDRYLSSGIATSHSAKPPTHKYVRGENGPGGFIVLKSASNPRVCTFVWILNTDLKGRLPRYLIHQSLAATMFEFAFHLRQRISELGARA |
| 1402 | sp|Q9UQF0|SYCY1\_HUMAN | MALPYHIFLFTVLLPSFTLTAPPPCRCMTSSSPYQEFLWRMQRPGNIDAPSYRSLSKGTPTFTAHTHMPRNCYHSATLCMHANTHYWTGKMINPSCPGGLGVTVCWTYFTQTGMSDGGGVQDQAREKHVKEVISQLTRVHGTSSPYKGLDLSKLHETLRTHTRLVSLFNTTLTGLHEVSAQNPTNCWICLPLNFRPYVSIPVPEQWNNFSTEINTTSVLVGPLVSNLEITHTSNLTCVKFSNTTYTTNSQCIRWVTPPTQIVCLPSGIFFVCGTSAYRCLNGSSESMCFLSFLVPPMTIYTEQDLYSYVISKPRNKRVPILPFVIGAGVLGALGTGIGGITTSTQFYYKLSQELNGDMERVADSLVTLQDQLNSLAAVVLQNRRALDLLTAERGGTCLFLGEECCYYVNQSGIVTEKVKEIRDRIQRRAEELRNTGPWGLLSQWMPWILPFLGPLAAIILLLLFGPCIFNLLVNFVSSRIEAVKLQMEPKMQSKTKIYRRPLDRPASPRSDVNDIKGTPPEEISAAQPLLRPNSAGSS |
| 1403 | sp|Q9ASZ1|STKLO\_ARATH | MVTPKQIDFSSCVGADNSNGTLSHRRSPRNIPSSKRAASVAEEETMKKKMKMKKKKKKLDPPLIVRIWNEEDELSILKGLVDYRAKTGFNPKIDWDAFCSFLGSSIVERFSKDQVLSKIRKLKRRFHVHSEKINQGNDPKFTRSSDSEAFGFSSMIWGQGDDDGMDKEHEVNGNGAAENRTNESGEEMLKEHEEEVANTELLNENGAAKTTENGTSSGKERHDEDNDDDDELCAVQDAFEAVMSQGLSGYQKKLQLEKLMNLGNGKRRELSDEWKALCVEETRFNIKKLRFSAKLAEAANDS |
| 1404 | sp|Q93045|STMN2\_HUMAN | MAKTAMAYKEKMKELSMLSLICSCFYPEPRNINIYTYDDMEVKQINKRASGQAFELILKPPSPISEAPRTLASPKKKDLSLEEIQKKLEAAEERRKSQEAQVLKQLAEKREHEREVLQKALEENNNFSKMAEEKLILKMEQIKENREANLAAIIERLQEKERHAAEVRRNKELQVELSG |
| 1405 | sp|Q15831|STK11\_HUMAN | MEVVDPQQLGMFTEGELMSVGMDTFIHRIDSTEVIYQPRRKRAKLIGKYLMGDLLGEGSYGKVKEVLDSETLCRRAVKILKKKKLRRIPNGEANVKKEIQLLRRLRHKNVIQLVDVLYNEEKQKMYMVMEYCVCGMQEMLDSVPEKRFPVCQAHGYFCQLIDGLEYLHSQGIVHKDIKPGNLLLTTGGTLKISDLGVAEALHPFAADDTCRTSQGSPAFQPPEIANGLDTFSGFKVDIWSAGVTLYNITTGLYPFEGDNIYKLFENIGKGSYAIPGDCGPPLSDLLKGMLEYEPAKRFSIRQIRQHSWFRKKHPPAEAPVPIPPSPDTKDRWRSMTVVPYLEDLHGADEDEDLFDIEDDIIYTQDFTVPGQVPEEEASHNGQRRGLPKAVCMNGTEAAQLSTKSRAEGRAPNPARKACSASSKIRRLSACKQQ |
| 1406 | sp|P06784|STE7\_YEAST | MFQRKTLQRRNLKGLNLNLHPDVGNNGQLQEKTETHQGQSRIEGHVMSNINAIQNNSNLFLRRGIKKKLTLDAFGDDQAISKPNTVVIQQPQNEPVLVLSSLSQSPCVSSSSSLSTPCIIDAYSNNFGLSPSSTNSTPSTIQGLSNIATPVENEHSISLPPLEESLSPAAADLKDTLSGTSNGNYIQLQDLVQLGKIGAGNSGTVVKALHVPDSKIVAKKTIPVEQNNSTIINQLVRELSIVKNVKPHENIITFYGAYYNQHINNEIIILMEYSDCGSLDKILSVYKRFVQRGTVSSKKTWFNELTISKIAYGVLNGLDHLYRQYKIIHRDIKPSNVLINSKGQIKLCDFGVSKKLINSIADTFVGTSTYMSPERIQGNVYSIKGDVWSLGLMIIELVTGEFPLGGHNDTPDGILDLLQRIVNEPSPRLPKDRIYSKEMTDFVNRCCIKNERERSSIHELLHHDLIMKYVSPSKDDKFRHWCRKIKSKIKEDKRIKREALDRAKLEKKQSERSTH |
| 1407 | sp|P39073|SSN3\_YEAST | MYNGKDRAQNSYQPMYQRPMQVQGQQQAQSFVGKKNTIGSVHGKAPMLMANNDVFTIGPYRARKDRMRVSVLEKYEVIGYIAAGTYGKVYKAKRQINSGTNSANGSSLNGTNAKIPQFDSTQPKSSSSMDMQANTNALRRNLLKDEGVTPGRIRTTREDVSPHYNSQKQTLIKKPLTVFYAIKKFKTEKDGVEQLHYTGISQSACREMALCRELHNKHLTTLVEIFLERKCVHMVYEYAEHDLLQIIHFHSHPEKRMIPPRMVRSIMWQLLDGVSYLHQNWVLHRDLKPANIMVTIDGCVKIGDLGLARKFHNMLQTLYTGDKVVVTIWYRAPELLLGARHYTPAVDLWSVGCIFAELIGLQPIFKGEEAKLDSKKTVPFQVNQLQRILEVLGTPDQKIWPYLEKYPEYDQITKFPKYRDNLATWYHSAGGRDKHALSLLYHLLNYDPIKRIDAFNALEHKYFTESDIPVSENVFEGLTYKYPARRIHTNDNDIMNLGSRTKNNTQASGITAGAAANALGGLGVNRRILAAAAAAAAAVSGNNASDEPSRKKNRR |
| 1408 | sp|Q13586|STIM1\_HUMAN | MDVCVRLALWLLWGLLLHQGQSLSHSHSEKATGTSSGANSEESTAAEFCRIDKPLCHSEDEKLSFEAVRNIHKLMDDDANGDVDVEESDEFLREDLNYHDPTVKHSTFHGEDKLISVEDLWKAWKSSEVYNWTVDEVVQWLITYVELPQYEETFRKLQLSGHAMPRLAVTNTTMTGTVLKMTDRSHRQKLQLKALDTVLFGPPLLTRHNHLKDFMLVVSIVIGVGGCWFAYIQNRYSKEHMKKMMKDLEGLHRAEQSLHDLQERLHKAQEEHRTVEVEKVHLEKKLRDEINLAKQEAQRLKELREGTENERSRQKYAEEELEQVREALRKAEKELESHSSWYAPEALQKWLQLTHEVEVQYYNIKKQNAEKQLLVAKEGAEKIKKKRNTLFGTFHVAHSSSLDDVDHKILTAKQALSEVTAALRERLHRWQQIEILCGFQIVNNPGIHSLVAALNIDPSWMGSTRPNPAHFIMTDDVDDMDEEIVSPLSMQSPSLQSSVRQRLTEPQHGLGSQRDLTHSDSESSLHMSDRQRVAPKPPQMSRAADEALNAMTSNGSHRLIEGVHPGSLVEKLPDSPALAKKALLALNHGLDKAHSLMELSPSAPPGGSPHLDSSRSHSPSSPDPDTPSPVGDSRALQASRNTRIPHLAGKKAVAEEDNGSIGEETDSSPGRKKFPLKIFKKPLKK |
| 1409 | sp|Q8WWF3|SSMM1\_HUMAN | MGDLFSLFWEVDPPPIPVNCAIPNQDYECWKDDSCGTIGSFLLWYFVIVFVLMFFSRASVWMSEDKKDEGSGTSTSVRKASKETSCKRQSKDSAWDPSQTMKKPKQNQLTPVTNSEVALVNAYPEQRRARRQSQFNEVNQNQHDSDTTEYGSEESNSEASSWKESESEHHPSPDSIKRRKMAQRQRNLGSYQMSERHCLHCKALRTNEWLAHHSRQKPSVTPPMKRDSQEESSISDINKKFSKF |
| 1410 | sp|Q8BI41|SYNB\_MOUSE | MTGFWVLCFVLFPSSLSYPESWMPLVNLTHHILRDTNSSLFSNCWVCLSTQTQRSLAVPAPLSIWTDTPMKLHLTYSVRPFSGSFSISDIERRLRLFRPLTASYSFHNPDRRAIAFLQLVSSTGIFRIITRITSVIYPHKDRFFESAQRPLWGPLFTETVLRSQAPLCISRFFKVSAYATFVGNLSASLCNYTMHISPSTSHENLDLSTTHTFKQAMKRPDAKWKNPLRFSGPPSLIFSKPAYYPCPTDIKHCHTSPATPWMHCPQAPFGTCYNLTLFEPDNSTHPVTMSVNPTHFKVKLQGHRDPYPLSHYQPLTGAALSGQYSVWENEITVQENWDITSNIFSHLLSFSYAFCLNSSGVFFLCGTSTYICLPANWSGVCTLVFQYPDIELLPNNQTVPVPLFASVLSSDSVLRPKRSPHLFPFLAGLGISSALGTGIAGLATSTLYFQQLSKVLSETLEEIAASITTLQNQIDSLAGVVLQNRRALDLITAEKGGTCLFLQEECCFYVNQSGIVRDAARKLQERASELGQHSDSWGQWPDLGRWLPWLTPFLGPLLFLFFLLTFGSCLLNCLTRFVSQRLGSFVQDTAKRHVDSILQNFQYKKLPQDSPDEDTIPT |
| 1411 | sp|P47897|SYQ\_HUMAN | MAALDSLSLFTSLGLSEQKARETLKNSALSAQLREAATQAQQTLGSTIDKATGILLYGLASRLRDTRRLSFLVSYIASKKIHTEPQLSAALEYVRSHPLDPIDTVDFERECGVGVIVTPEQIEEAVEAAINRHRPQLLVERYHFNMGLLMGEARAVLKWADGKMIKNEVDMQVLHLLGPKLEADLEKKFKVAKARLEETDRRTAKDVVENGETADQTLSLMEQLRGEALKFHKPGENYKTPGYVVTPHTMNLLKQHLEITGGQVRTRFPPEPNGILHIGHAKAINFNFGYAKANNGICFLRFDDTNPEKEEAKFFTAICDMVAWLGYTPYKVTYASDYFDQLYAWAVELIRRGLAYVCHQRGEELKGHNTLPSPWRDRPMEESLLLFEAMRKGKFSEGEATLRMKLVMEDGKMDPVAYRVKYTPHHRTGDKWCIYPTYDYTHCLCDSIEHITHSLCTKEFQARRSSYFWLCNALDVYCPVQWEYGRLNLHYAVVSKRKILQLVATGAVRDWDDPRLFTLTALRRRGFPPEAINNFCARVGVTVAQTTMEPHLLEACVRDVLNDTAPRAMAVLESLRVIITNFPAAKSLDIQVPNFPADETKGFHQVPFAPIVFIERTDFKEEPEPGFKRLAWGQPVGLRHTGYVIELQHVVKGPSGCVESLEVTCRRADAGEKPKAFIHWVSQPLMCEVRLYERLFQHKNPEDPTEVPGGFLSDLNLASLHVVDAALVDCSVALAKPFDKFQFERLGYFSVDPDSHQGKLVFNRTVTLKEDPGKV |
| 1412 | sp|Q9Z327|SYNPO\_RAT | MLGTHFPPPPLGPSEGRAAPCTFQIPDGSYRCLALEAEESSSEDGLQGEVRLVDLEEEGTSKSRVNHGTPPLSRAPAIIQPSSCCREARGGFQHSDKPSREWDVVQARKVMTASVSSSPVPRVAQKPALGRSTSFTEKDLKEAKERSQRIAAQLTTPPSSNSRGVQLFNRRRQRVNEFTLESRGQRSPKLSQEALQTGHPSSPIGHAPGLSVNPTSPSKPGSPKHSSSQSPSRGVPGHIMEGYSEEASLLRHLEKVASEEEEVPLVVYLKENAALLTANGLHLSQNRETQQSSPNPPETEEVPSPAADINQNPSSPNATLTTAASNSHHNQPTADVNQNPPATITPVQQNSSETQCSPNGTLDSKPNTPSADDGQRPVPAEEVRSSILLIDKVSAPPSAASPFSREATPLSSSGPPAADLMSSSLLIGMQPSTLVASAEQEVSGHAAVTTPTKVYSEVHLTLAKPASVVNRTARPFGMQSPGTTSQIEQSPMMGRRHFGEKAWAPPASSMADRSPQPQRHIMARSPMVERRLVGQRSPVVERRPLGNFTPPPTYAETLSTAPVASQVRSPPSYSTLYPSSDPKPPHLKGQVVPANKTGILEESMARRGSRKSMFTFVEKPKVTPNPDLLDLVQTADEKRRQRDQGEVGMEDEPFALGAEASNFQQEPIARDRSGPAAAEETVPEWASCLKSPRIQAKPKPKPNQNLSEASGKGAELYARRQSRMEKYVIESSGHAELARCPSPTMSLPSSWKYTTNAPGGFRVASLSPARTPPASLYHGYLPENGVLRPEPTKQQPHQMRPSLYALSPVKEPAKISSRATSSRASSRTVSPRAASPAKPSSLDLVPNLPRAGLPPSPALPRPSRSSPGLYNAPVQDSLQPTAVSPTYSSDISPVSPSRAWSPRAKQAPRPSFSTRNAGIEAQVWKPSFCFK |
| 1413 | sp|P29055|TF2B\_YEAST | MMTRESIDKRAGRRGPNLNIVLTCPECKVYPPKIVERFSEGDVVCALCGLVLSDKLVDTRSEWRTFSNDDHNGDDPSRVGEASNPLLDGNNLSTRIGKGETTDMRFTKELNKAQGKNVMDKKDNEVQAAFAKITMLCDAAELPKIVKDCAKEAYKLCHDEKTLKGKSMESIMAASILIGCRRAEVARTFKEIQSLIHVKTKEFGKTLNIMKNILRGKSEDGFLKIDTDNMSGAQNLTYIPRFCSHLGLPMQVTTSAEYTAKKCKEIKEIAGKSPITIAVVSIYLNILLFQIPITAAKVGQTLQVTEGTIKSGYKILYEHRDKLVDPQLIANGVVSLDNLPGVEKK |
| 1414 | sp|Q9W7R3|TEN4\_DANRE | MEVKERRPYRSLTSRRDTERRYTSSSADSEDGKINPKSYSSSETLKAFDQDSRLAYGSRVKDLVHHEADEFSRQGPDFSLRDMAFGDPVPPHMGAYRTEMGLPHRDYSVSVASDADTETDGIMSPEHAVRLWGRSNTKSGRSSCLFSRANSNLTLTDTEHENTENGPPLHCSSASSSPVDSPYPPPSHAANQSQGRLLGNSGAQAGRDSESEDEFGPNSFLVKTGSGNVCTPAAATANEGSFQNHSRLRTPPLPLFHSHSPSQHHTASIGSLSRSNYTQRSNPSPAPTDSSAPNEGPTSAQDSSSAQDNWLLNSNVPLETRNIAKQTFLETLQDNFIEMDILATARRDGAYTDGHFLFKPGGTSPLYCTTSPGYPLTSSTVYSPPPRPLPRNTFSRPAFSLKKPYKHCNWKCAALSAILISVTLVFLLAYFIAMHLFGLNWHLQPVQRQIYQLTEDNTSGLHLPTDLGLPPLGNTGLEFPDRGSRDDGKLDGFFPEDSFIDMGEIDVGRKVAQLIPPGIFWRSQVFIDHPMYLKFNVSLSKDALVGIYGRRGLPPSHTQFDFVELLDGRRLLSQGLPGLDGPPFPAQQRSLVPITSHDTGCIQYMDSGIWHLAVYNDGKETEQVSFLTTAIDSIDDCPSNCFGNGDCVSGNCHCFPGFRGPDCSRASCPVLCSGNGQYLKGRCMCHSGWKGSECDVPTNQCIDITCSGHGTCIVGTCICNPSYKGENCEEVDCLDPTCSGRGVCVRGECHCFVGWGGPGCESPRASCMEQCSGHGSFLADTNTCNCDHNWTGHDCSTELCAADCGGHGICVAGSCRCDEGWMGTGCEQRACHPRCSEHGTCKDGKCECSPGWNGEHCTIEGCPGLCNGNGRCTLGNNGWYCVCQLGWRGAGCDTSMETACSDGKDNDGDGLTDCMDPDCCLQASCHTTSLCVGSPDPLDIIQETQISSSLSTLQSFYQRIHFLVGRDSTHVIPDVNPFDGIHACVIRGQVVTSDGTPLVGVNISFINKPAYGYTITRQDGSFDLVSNGGVAIGLRFERAPFITQEHTLWLPWGRFFVMDTIVMRHEVNDIPSCDLSSFTRPMPIVLPAPLTAFAGTCPERGIVVPEIQTLQEEVRIPGTDMRLGYLSSRTSGYKSLLRITLTHSTIPFSLMKVHLMVAVEGRLFRKWFSAAPNLSYDFVWDKTDVYSQKVYGLSEAFVSVGFEYESCPDLILWEKRTAVLQGYETTASNLGGWSVDKHHALNIQSGILHKGNGENIFISQQPPVIGSIMGNGRRRSISCPSCNGLADGNKLLAPVALACGSDGSLYVGDFNYVRRIFTTGNVTSVLELSNSPAHKYYLATSPVSGWLYLSDTSSRKVFKVKSLYAVKDVAKNLELVAGTGDQCLPYDETRCGDGGKAVEATLTNPRGITVDKYGVIFFVDGTMIRRIDQNGIISTLLGFNDLTSARPLSCDSVMDISQVRLEWPTDLAVSPMDNSLYVLDNNVVLQISENHQVRIVAGRPMHCQVPGLDHFLVSKIAIHATLESANALAVSHNGLLYIAESDEKKINRVRQVSTNGEISLLAGAPSGCDCKNDANCDCYSGDDGYAKDAKLNAPSSLAVSPDGELFIADLGNIRIRYVRRNKAFLNPLNMYEISSPIDDELYLFDVNASHVFTQSLTTGDYLYNFTYSGEGDLSSITDKNKNRVSIRRDSTGLPLWLMGPDGQTFWFTMGTNNALKSVAAQGQEIAVMTYHGSSGLLATKSNEDGWSTFYEYDNYGRLTNVTYPTGRVSSYRTDSDSTVRVQTEGSNKEDITVTTNLSASGTFYTLMQDQVKNSYYIGLDGSLRLVLANGMEVSLHTEPHLLSGTVNPTISKRNVTLPIDNGLNLVEWRQRKEQARGQVTVYGRRLRVHNRNLLSMDFDRVTRTEKVYDDHRKFTLRIHYDHAGRPTLWAPSSRLNGVNVTYSPGGHIAGIQRGTMSVRMEYDQNGRITSKIFADGKSWSYTYLEKSMVLLLYSQRQYIFEFDKNDRLSSVTMPNVARQTLETTRSIGYYRNTYRPPEGNATVLQDYSEDGLLLQTIHQGTGRRVIYKYGKLSRLLEILYDTTRIAFSYDESAGMLKTVGLQSEGFACTIRYRQIGPLIDRQIFRFSEEGMVNARFDYNYDNSFRVTSMQAVINETPLPIDLYRYDDVSGKTEQFGKFGVIYYDINQIITTAVMTHTKHFDAYGRVKEVQYEIFRSLMYWMMVQFDNMGRVVAKELKVGPYANTTRYAYEYDADGQLQVVSINDKPLWRYSYDLNGNLHLLSPGNSARLTPLRYDIRDRITRLGDVQYRLDEDGFLRQRGNDFFEYNSAGLLVKTYNKVNGWTIKYRYDGLGRRVSSRSTQGHHLQFFYADLSSPTRVTHMYNHSSSEITSLYYDLQGHLFAMELSSGDEFYVACDNIGTPLAVFSGAGLMIKQILHTAFGEVYLDSNPSFQLVIGYQGGLYEPLTKLVHMGRRDYDVLAGRWTTPDHDIRKRLNSDNIVPFNLYMFKNNNPLSNSQETKCYMTDVNSWLVTFGFQLYNVIPGYRKPVTDAMEPSYELVHTQIKTQEWDSTKSVLGVQCEVQRQLKSFVRLERFGQIYSASDSGCPPTPLHTLFATGTSLFGKGVKVAIREGRVEADIISLANEDGRRIAAVLDKASYLQDLHFTIAGLDTHYFVKSGLVEGDLSLLGMTVGQRTLETGVNVTVSQVNMVLGGRSRRITDIQMQYGTLSLNVRYGSSVDEEKVRVLELARQRAVATAWAHERHRLRQGEEGSRAWTDGERQQLLSSGRVQGYEGFYIVSVDQFPELTDNINNVHFWRQTEMGRR |
| 1415 | sp|P04499|TERM\_ADE05 | MALSVNDCARLTGQSVPTMEHFLPLRNIWNRVRDFPRASTTAAGITWMSRYIYGYHRLMLEDLAPGAPATLRWPLYRQPPPHFLVGYQYLVRTCNDYVFDSRAYSRLRYTELSQPGHQTVNWSVMANCTYTINTGAYHRFVDMDDFQSTLTQVQQAILAERVVADLALLQPMRGFGVTRMGGRGRHLRPNSAAAAAIDARDAGQEEGEEEVPVERLMQDYYKDLRRCQNEAWGMADRLRIQQAGPKDMVLLSTIRRLKTAYFNYIISSTSARNNPDRRPLPPATVLSLPCDCDWLDAFLERFSDPVDADSLRSLGGGVPTQQLLRCIVSAVSLPHGSPPPTHNRDMTGGVFQLRPRENGRAVTETMRRRRGEMIERFVDRLPVRRRRRRVPPPPPPPEEEEGEALMEEEIEEEEEAPVAFEREVRDTVAELIRLLEEELTVSARNSQFFNFAVDFYEAMERLEALGDINESTLRRWVMYFFVAEHTATTLNYLFQRLRNYAVFARHVELNLAQVVMRARDAEGGVVYSRVWNEGGLNAFSQLMARISNDLAATVERAGRGDLQEEEIEQFMAEIAYQDNSGDVQEILRQAAVNDTEIDSVELSFRLKLTGPVVFTQRRQIQEINRRVVAFASNLRAQHQLLPARGADVPLPPLPAGPEPPLPPGARPRHRF |
| 1416 | sp|A1EC31|TDIF\_ZINVI | MDIDLLWSFGGWFFILFPETINYCMAKLRSTSQISHFTNPRSCSSLFFVALLIITILITMLQSSTSMEVTSLPTHQPTSSNSHDESSTSSTATTTTDLHPKRTHHQSHPKPTRSFEAGAHEVPSGPNPISNR |
| 1417 | sp|O08625|SYT10\_RAT | MSFRKEDGVSSLCQKALHIITELCFAGQVEWDKCSGIFPADRSGQGGGGTDISVSLLAVVVSFCGLALLVVSLFVFWKLCWPCWKSKLVAPNVSTLPQSISSAPTEVFETEEKKEVEENEKPAPKAIEPAIKISHTSPDIPAEVQTALKEHLIKHARVQRQTTDPTSSSRHNSFRRHLPRQMNVSSVDFSMGTEPVLQRGETRTSIGRIKPELYKQKSVDSEGNRKDDVKTCGKLNFALQYDYENELLVVKIIKALDLPAKDFTGTSDPYVKIYLLPDRKKKFQTRVHRKTLNPLFDELFQFPVVYDQLSNRKLHFSIYDFDRFSRHDMIGEVILDNLFEVSDLSREATVWKDIHCATTESIDLGEIMFSLCYLPTAGRMTLTVIKCRNLKAMDITGSSDPYVKVSLMCEGRRLKKRKTTTKKNTLNPVYNEAIIFDIPPENVDQVSLCIAVMDYDRVGHNEVIGVCRTGLDAEGLGRDHWNEMLAYHRKPITHWHPLLELPGRATSFDSQGSCSSPRPPSTP |
| 1418 | sp|Q9H2B2|SYT4\_HUMAN | MAPITTSREEFDEIPTVVGIFSAFGLVFTVSLFAWICCQRKSSKSNKTPPYKFVHVLKGVDIYPENLNSKKKFGADDKNEVKNKPAVPKNSLHLDLEKRDLNGNFPKTNLKPGSPSDLENATPKLFLEGEKESVSPESLKSSTSLTSEEKQEKLGTLFFSLEYNFERKAFVVNIKEARGLPAMDEQSMTSDPYIKMTILPEKKHKVKTRVLRKTLDPAFDETFTFYGIPYTQIQELALHFTILSFDRFSRDDIIGEVLIPLSGIELSEGKMLMNREIIKRNVRKSSGRGELLISLCYQSTTNTLTVVVLKARHLPKSDVSGLSDPYVKVNLYHAKKRISKKKTHVKKCTPNAVFNELFVFDIPCEGLEDISVEFLVLDSERGSRNEVIGQLVLGAAAEGTGGEHWKEICDYPRRQIAKWHVLCDG |
| 1419 | sp|Q9S7W5|TCP13\_ARATH | MNIVSWKDANDEVAGGATTRREREVKEDQEETEVRATSGKTVIKKQPTSISSSSSSWMKSKDPRIVRVSRAFGGKDRHSKVCTLRGLRDRRVRLSVPTAIQLYDLQERLGVDQPSKAVDWLLDAAKEEIDELPPLPISPENFSIFNHHQSFLNLGQRPGQDPTQLGFKINGCVQKSTTTSREENDREKGENDVVYTNNHHVGSYGTYHNLEHHHHHHQHLSLQADYHSHQLHSLVPFPSQILVCPMTTSPTTTTIQSLFPSSSSAGSGTMETLDPRQMVSHFQMPLMGNSSSSSSQNISTLYSLLHGSSSNNGGRDIDNRMSSVQFNRTNSTTTANMSRHLGSERCTSRGSDHHM |
| 1420 | sp|Q9Y6M0|TEST\_HUMAN | MGARGALLLALLLARAGLRKPESQEAAPLSGPCGRRVITSRIVGGEDAELGRWPWQGSLRLWDSHVCGVSLLSHRWALTAAHCFETYSDLSDPSGWMVQFGQLTSMPSFWSLQAYYTRYFVSNIYLSPRYLGNSPYDIALVKLSAPVTYTKHIQPICLQASTFEFENRTDCWVTGWGYIKEDEALPSPHTLQEVQVAIINNSMCNHLFLKYSFRKDIFGDMVCAGNAQGGKDACFGDSGGPLACNKNGLWYQIGVVSWGVGCGRPNRPGVYTNISHHFEWIQKLMAQSGMSQPDPSWPLLFFPLLWALPLLGPV |
| 1421 | sp|P40227|TCPZ\_HUMAN | MAAVKTLNPKAEVARAQAALAVNISAARGLQDVLRTNLGPKGTMKMLVSGAGDIKLTKDGNVLLHEMQIQHPTASLIAKVATAQDDITGDGTTSNVLIIGELLKQADLYISEGLHPRIITEGFEAAKEKALQFLEEVKVSREMDRETLIDVARTSLRTKVHAELADVLTEAVVDSILAIKKQDEPIDLFMIEIMEMKHKSETDTSLIRGLVLDHGARHPDMKKRVEDAYILTCNVSLEYEKTEVNSGFFYKSAEEREKLVKAERKFIEDRVKKIIELKRKVCGDSDKGFVVINQKGIDPFSLDALSKEGIVALRRAKRRNMERLTLACGGVALNSFDDLSPDCLGHAGLVYEYTLGEEKFTFIEKCNNPRSVTLLIKGPNKHTLTQIKDAVRDGLRAVKNAIDDGCVVPGAGAVEVAMAEALIKHKPSVKGRAQLGVQAFADALLIIPKVLAQNSGFDLQETLVKIQAEHSESGQLVGVDLNTGEPMVAAEVGVWDNYCVKKQLLHSCTVIATNILLVDEIMRAGMSSLKG |
| 1422 | sp|Q9NZ01|TECR\_HUMAN | MKHYEVEILDAKTREKLCFLDKVEPHATIAEIKNLFTKTHPQWYPARQSLRLDPKGKSLKDEDVLQKLPVGTTATLYFRDLGAQISWVTVFLTEYAGPLFIYLLFYFRVPFIYGHKYDFTSSRHTVVHLACICHSFHYIKRLLETLFVHRFSHGTMPLRNIFKNCTYYWGFAAWMAYYINHPLYTPPTYGAQQVKLALAIFVICQLGNFSIHMALRDLRPAGSKTRKIPYPTKNPFTWLFLLVSCPNYTYEVGSWIGFAIMTQCLPVALFSLVGFTQMTIWAKGKHRSYLKEFRDYPPLRMPIIPFLL |
| 1423 | sp|F4IPK2|TAF14\_ARATH | MESDIEILSEADASMRKLRIFGIDDREDENGRRRIKDVEVYVPIVCGSIAFYLGKKATEYRTHKWTVYVRGATNEDLGVVIKRVIFHLHPSFNNPTRVVDAPPFALSECGWGEFKIDITVFFHTDVCEKKLELSHVLKLNPENAYGPIPKSIKIPVVAESYNEVVFPDPFESFVARVHNHPAIQISNIPDGLNLPPPGVADTYYLMEKGDTKEHPLSPWFLKFSEVEELFKLTAARQKVQADIAKLKRQLIMVDGQPEGLESSSGYEC |
| 1424 | sp|Q91X86|TMM98\_MOUSE | METVVIVAIGVLATIFLASFAALVVVCRQRYCRPRDLLQRYDSKPIVDLIGAMETQSEPSELELDDVVITNPHIEAILENEDWIEDASGLMSHCIAILKICHTLTEKLVAMTMGSGAKMKTSASVSDIIVVAKRISPRVDDVVKSMYPPLDPKLLDARTTALLLSVSHLVLVTRNACHLTGGLDWIDQSLSAAEEHLEVLREAALASEPDKSLPNPEGFLQEQSAI |
| 1425 | sp|Q9JJG0|TACC2\_MOUSE | MGNENSTSDHQRTSSVQSPRSLQPPGKSQSLQKQQGDLPGSCAGSIPGTDDVIQPAAPVDPGHPPLAGIGSNQGEVCTSLQLSYTIVTVQSASPSAARASPAPLAPEHTASAPSAAGPGVEVTPTGSPQHLAKNEPRSSDSEEAFETPESTTPVKAPPAPPPPPPEVTPEPEVIDPPAPEEPGCISEPPVVVPDGPRSSESVEGSPFRPSHSSSAVFDEDKPIASSGTYNLDFDSIELVDNFQSLEPCSADSKGQECKVSTRRKSTESVPPSKSTLSRSLSLQASDFDGASCPGSPEAGTLTTDACGTGSNSASSTLKRTKKTRPPSLKKKQATKKPTETPPVKETQQEPGEESPVPSEEHLAPETKTESATPEGAGCTLSDDTPLESPAVPTATCPLTLESAEDVSPLVSGGGRVQNSPPVGRKSVPLTTASEAVEVTLSDSGGQEDLPAKGLSVRLEFDYSEDKGSWESQQENAPPTKKIGKKPVAKMPLRRPKMKKTPEKLDNTPASPPRSPTEPSDTPIAKGTYTFDIDKWDDPNFNPFSSTSKMQESPKLSQQSYNFDPDACEESLDPFKASSKTPSSPSKSPASFEIPASTTEADGDGLNKPAKKKKTPLKTMVEDVMSVCSLFDTFRVKKSPKRSPLSDPPSQDPTPAATPEAPSAISTVVHATDEEKLAVTSQKWTCMTVDLDADKQDFPQPSDLSNFVNETKFNSPSEELDYRNSYEIEYMEKLGSSLPQDDDTPKKQALYLMFDTPQESPVKSPPVRMSDSPTPCSGSSFEDTEALVNAATKLQHPVARGLPSSQEPLLQVPEKPSQKELEAMALGTPAEAIEITAPEGAFASADTLLSRLAHPASLCGALGYLEPDLAEKNPPVFAQKLQEELEFAVMRIEALKLARQIALASRSRQDTKREAAHPPDVSISKTALYSRIGSTEVEKPPGLLFQQPDLDSALQVARAEVIAKEREVSEWRDKYEESRREVVEMRKIVAEYEKTIAQMIPGTERKILSHQTVQQLVLEKEQALADLNSVEKSLADLFRRYEKMKEVLEGFRKNEEVLKKCAQEYLSRVKKEEQRYQALKVHAEEKLDRANAEIAQVRGKAQQEQAAYQASLRKEQLRVDALERTLEQKNKEIEELTKICDELIAKMGKS |
| 1426 | sp|P32802|TMN1\_YEAST | MIYKMAHVQLLLLYFFVSTVKAFYLPGVAPTTYRENDNIPLLVNHLTPSMNYQHKDEDGNNVSGDKENFLYSYDYYYNRFHFCQPEKVEKQPESLGSVIFGDRIYNSPFQLNMLQEKECESLCKTVIPGDDAKFINKLIKNGFFQNWLIDGLPAAREVYDGRTKTSFYGAGFNLGFVQVTQGTDIEATPKGAETTDKDVELETRNDRNMVKTYELPYFANHFDIMIEYHDRGEGNYRVVGVIVEPVSIKRSSPGTCETTGSPLMLDEGNDNEVYFTYSVKFNESATSWATRWDKYLHVYDPSIQWFSLINFSLVVVLLSSVVIHSLLRALKSDFARYNELNLDDDFQEDSGWKLNHGDVFRSPSQSLTLSILVGSGVQLFLMVTCSIFFAALGFLSPSSRGSLATVMFILYALFGFVGSYTSMGIYKFFNGPYWKANLILTPLLVPGAILLIIIALNFFLMFVHSSGVIPASTLFFMVFLWFLFSIPLSFAGSLIARKRCHWDEHPTKTNQIARQIPFQPWYLKTIPATLIAGIFPFGSIAVELYFIYTSLWFNKIFYMFGFLFFSFLLLTLTSSLVTILITYHSLCLENWKWQWRGFIIGGAGCALYVFIHSILFTKFKLGGFTTIVLYVGYSSVISLLCCLVTGSIGFISSMLFVRKIYSSIKVD |
| 1427 | sp|P40200|TACT\_HUMAN | MEKKWKYCAVYYIIQIHFVKGVWEKTVNTEENVYATLGSDVNLTCQTQTVGFFVQMQWSKVTNKIDLIAVYHPQYGFYCAYGRPCESLVTFTETPENGSKWTLHLRNMSCSVSGRYECMLVLYPEGIQTKIYNLLIQTHVTADEWNSNHTIEIEINQTLEIPCFQNSSSKISSEFTYAWSVENSSTDSWVLLSKGIKEDNGTQETLISQNHLISNSTLLKDRVKLGTDYRLHLSPVQIFDDGRKFSCHIRVGPNKILRSSTTVKVFAKPEIPVIVENNSTDVLVERRFTCLLKNVFPKANITWFIDGSFLHDEKEGIYITNEERKGKDGFLELKSVLTRVHSNKPAQSDNLTIWCMALSPVPGNKVWNISSEKITFLLGSEISSTDPPLSVTESTLDTQPSPASSVSPARYPATSSVTLVDVSALRPNTTPQPSNSSMTTRGFNYPWTSSGTDTKKSVSRIPSETYSSSPSGAGSTLHDNVFTSTARAFSEVPTTANGSTKTNHVHITGIVVNKPKDGMSWPVIVAALLFCCMILFGLGVRKWCQYQKEIMERPPPFKPPPPPIKYTCIQEPNESDLPYHEMETL |
| 1428 | sp|Q22866|TPM1\_CAEEL | MDAIKKKMQAMKIEKDNALDRADAAEEKVRQITEKLERVEEELRDTQKKMTQTGDDLDKAQEDLSAATSKLEEKEKTVQEAEAEVASLNRRMTLLEEELERAEERLKIATEKLEEATHNVDESERVRKVMENRSLQDEERANTVEAQLKEAQLLAEEADRKYDEVARKLAMVEADLERAEERAEAGENKIVELEEELRVVGNNLKSLEVSEEKALQREDSYEEQIRTVSSRLKEAETRAEFAERSVQKLQKEVDRLEDELVHEKERYKTISEELDSTFQELSGY |
| 1429 | sp|Q9Y577|TRI17\_HUMAN | MEAVELARKLQEEATCSICLDYFTDPVMTTCGHNFCRACIQLSWEKARGKKGRRKRKGSFPCPECREMSPQRNLLPNRLLTKVAEMAQQHPGLQKQDLCQEHHEPLKLFCQKDQSPICVVCRESREHRLHRVLPAEEAVQGYKLKLEEDMEYLREQITRTGNLQAREEQSLAEWQGKVKERRERIVLEFEKMNLYLVEEEQRLLQALETEEEETASRLRESVACLDRQGHSLELLLLQLEERSTQGPLQMLQDMKEPLSRKNNVSVQCPEVAPPTRPRTVCRVPGQIEVLRGFLEDVVPDATSAYPYLLLYESRQRRYLGSSPEGSGFCSKDRFVAYPCAVGQTAFSSGRHYWEVGMNITGDALWALGVCRDNVSRKDRVPKCPENGFWVVQLSKGTKYLSTFSALTPVMLMEPPSHMGIFLDFEAGEVSFYSVSDGSHLHTYSQATFPGPLQPFFCLGAPKSGQMVISTVTMWVKG |
| 1430 | sp|Q96F44|TRI11\_HUMAN | MAAPDLSTNLQEEATCAICLDYFTDPVMTDCGHNFCRECIRRCWGQPEGPYACPECRELSPQRNLRPNRPLAKMAEMARRLHPPSPVPQGVCPAHREPLAAFCGDELRLLCAACERSGEHWAHRVRPLQDAAEDLKAKLEKSLEHLRKQMQDALLFQAQADETCVLWQKMVESQRQNVLGEFERLRRLLAEEEQQLLQRLEEEELEVLPRLREGAAHLGQQSAHLAELIAELEGRCQLPALGLLQDIKDALRRVQDVKLQPPEVVPMELRTVCRVPGLVETLRRFRGDVTLDPDTANPELILSEDRRSVQRGDLRQALPDSPERFDPGPCVLGQERFTSGRHYWEVEVGDRTSWALGVCRENVNRKEKGELSAGNGFWILVFLGSYYNSSERALAPLRDPPRRVGIFLDYEAGHLSFYSATDGSLLFIFPEIPFSGTLRPLFSPLSSSPTPMTICRPKGGSGDTLAPQ |
| 1431 | sp|Q13641|TPBG\_HUMAN | MPGGCSRGPAAGDGRLRLARLALVLLGWVSSSSPTSSASSFSSSAPFLASAVSAQPPLPDQCPALCECSEAARTVKCVNRNLTEVPTDLPAYVRNLFLTGNQLAVLPAGAFARRPPLAELAALNLSGSRLDEVRAGAFEHLPSLRQLDLSHNPLADLSPFAFSGSNASVSAPSPLVELILNHIVPPEDERQNRSFEGMVVAALLAGRALQGLRRLELASNHFLYLPRDVLAQLPSLRHLDLSNNSLVSLTYVSFRNLTHLESLHLEDNALKVLHNGTLAELQGLPHIRVFLDNNPWVCDCHMADMVTWLKETEVVQGKDRLTCAYPEKMRNRVLLELNSADLDCDPILPPSLQTSYVFLGIVLALIGAIFLLVLYLNRKGIKKWMHNIRDACRDHMEGYHYRYEINADPRLTNLSSNSDV |
| 1432 | sp|Q9C035|TRIM5\_HUMAN | MASGILVNVKEEVTCPICLELLTQPLSLDCGHSFCQACLTANHKKSMLDKGESSCPVCRISYQPENIRPNRHVANIVEKLREVKLSPEGQKVDHCARHGEKLLLFCQEDGKVICWLCERSQEHRGHHTFLTEEVAREYQVKLQAALEMLRQKQQEAEELEADIREEKASWKTQIQYDKTNVLADFEQLRDILDWEESNELQNLEKEEEDILKSLTNSETEMVQQTQSLRELISDLEHRLQGSVMELLQGVDGVIKRTENVTLKKPETFPKNQRRVFRAPDLKGMLEVFRELTDVRRYWVDVTVAPNNISCAVISEDKRQVSSPKPQIIYGARGTRYQTFVNFNYCTGILGSQSITSGKHYWEVDVSKKTAWILGVCAGFQPDAMCNIEKNENYQPKYGYWVIGLEEGVKCSAFQDSSFHTPSVPFIVPLSVIICPDRVGVFLDYEACTVSFFNITNHGFLIYKFSHCSFSQPVFPYLNPRKCGVPMTLCSPSS |
| 1433 | sp|A1Y9I9|TOMT\_MOUSE | MSPAIALAFLPLVVTLLVRYRHHFRLLVRTVLLRGFRDCLSGLRIEERAFSYVLTHALPGDPGHILTTLDHWSSCCEYLSHMGPVKGQILMRLVEEKAPACVLELGTYCGYSTLLIARALPPGSRLLTVERDSRTAAVAEKVIRLAGFDEQMVELIAGSSEEVIPRLRAQHQLNRADLVLLAHRPRYYLRDLQLLEAHALLPHGATVLADHVLFPGAPRFLQYTKSCGRYRCRLHHTSLPDFPAIKDGIAQLTYTGPG |
| 1434 | sp|H2KZM9|TTL11\_CAEEL | MGCKISTEFCSDNPVGSISTSKVHPTDLSTPSYAIKPVEFYEEPLKDDQLFYKVALAKKEYREKEKDKKEQLSSNRRVSLQVEPNKLPIPLTRSSSLSSIMENRPPSGISNSSFIRSRNTASRRFTIDTSRAKSNQYVVSLCSKKIGIIEYPDGRSDKQPCDVYWHNVVLSDMNKIVTSPQSRVNKFPGMTELAKKISLTHSISSMQKLFPDEYAFYPNSWFLPAHLADFHAFYRKAQALGKTEMWFIVKPDEGAQGTGIYLINSPNQIRNVDQRQLVQEYVADPLLMNDKLKFDFRVYGVIKSINPLSIYVAREGMARFCTEKYEKPDSSNFKNLYAHLTNYSLNKANEAYVHSNTLQDQTRGSKRLLSTVFHQLESRGVKTKRLWHDIKLILVKTTLAMLPEIMLHYEHHFYDSTGPQCFQIMGFDVMIREDGTPILLEVNAAPSLTADHIVPHPGRTLLEGGQRVRSIVDEVIKIPLVRDTLLLVLGLMEEEYQNNSLKGETKSLDDMQTIKQRRKPHLSEIFPTRYGAHSGHLLFLDKAMYIYMQFVQLRSNVNITNAGLKQFVRKCNLIDIIPVVHVDAKVSEINYYFTGEKRTNGNGLPFHAFLMFLFFIAEKKFVLENDLLSKVQRLLSFCDMSLRRYGVRSARLRRAEVDSTIGNVEIYMLPSRMARNRSGTNGRKQNFTDDNNNPNSFAHLPKINERL |
| 1435 | sp|Q8VE47|UBA5\_MOUSE | MADSVERLRQRVEELEQELARERTRRSGGDGHCGRTRIQEMSDEVLDSNPYSRLMALKRMGIVSDYKKIRTYAVAIVGVGGVGSVTAEMLTRCGIGKLLLFDYDKVELANMNRLFFQPYQAGLSKVHAAEHTLRNINPDVLFEVHNYNITTVEHFEHFMNRISNGGLEEGQPVDLVLSCVDNFEARMAINTACNELGQTWMESGVSENAVSGHIQLMIPGESACFACAPPLVVASNIDEKTLKREGVCAASLPTTMGVVAGILVQNVLKFLLKFGTVSFYLGYNAMQDFFPTMFMKPNPQCDDKNCRKQQEEYKKRAAALPTQEAEPQEEAEVVHEDNEWGIELVSEVSEEELKNSSGPVPTLPEGITVAYTVPKKTEDSASEVTVEDSGESLEDLMARMKNM |
| 1436 | sp|Q9JIE6|TSLP\_MOUSE | MVLLRSLFILQVLVRMGLTYNFSNCNFTSITKIYCNIIFHDLTGDLKGAKFEQIEDCESKPACLLKIEYYTLNPIPGCPSLPDKTFARRTREALNDHCPGYPETERNDGTQEMAQEVQNICLNQTSQILRLWYSFMQSPE |
| 1437 | sp|Q9LJZ5|UBC19\_ARATH | MATVNGYTGNTPAATTPAATGSKQSAPPTKTVDSHSVLKRLQSELMGLMMGADPGISAFPEEDNIFCWKGTITGSKDTVFEGTEYRLSLTFSNDYPFKSPKVKFETCCFHPNVDLYGNICLDILQDKWSSAYDVRTILLSIQSLLGEPNISSPLNNQAAQLWSNQEEYRKMVEKLYKPLNA |
| 1438 | sp|P62253|UB2G1\_HUMAN | MTELQSALLLRRQLAELNKNPVEGFSAGLIDDNDLYRWEVLIIGPPDTLYEGGVFKAHLTFPKDYPLRPPKMKFITEIWHPNVDKNGDVCISILHEPGEDKYGYEKPEERWLPIHTVETIMISVISMLADPNGDSPANVDAAKEWREDRNGEFKRKVARCVRKSQETAFE |
| 1439 | sp|P25153|UBCD6\_DROME | MSTPARRRLMRDFKRLQEDPPTGVSGAPTDNNIMIWNAVIFGPHDTPFEDGTFKLTIEFTEEYPNKPPTVRFVSKVFHPNVYADGGICLDILQNRWSPTYDVSAILTSIQSLLSDPNPNSPANSTAAQLYKENRREYEKRVKACVEQSFID |
| 1440 | sp|O45495|UB2V1\_CAEEL | MVDVPRNFRLLEELEEGQKGKGDGNISWGLEDDSDMTLTRWTASIIGPPRTPYESRIYNLQIQCGGNYPREPPTVRFTTKVHMVGVNQSNGVIDKRNLTTLRNWSNSYMIKTVLEDIRKNMMMAKENLKLQQPAEGAMF |
| 1441 | sp|Q9Y385|UB2J1\_HUMAN | METRYNLKSPAVKRLMKEAAELKDPTDHYHAQPLEDNLFEWHFTVRGPPDSDFDGGVYHGRIVLPPEYPMKPPSIILLTANGRFEVGKKICLSISGHHPETWQPSWSIRTALLAIIGFMPTKGEGAIGSLDYTPEERRALAKKSQDFCCEGCGSAMKDVLLPLKSGSDSSQADQEAKELARQISFKAEVNSSGKTISESDLNHSFSLTDLQDDIPTTFQGATASTSYGLQNSSAASFHQPTQPVAKNTSMSPRQRRAQQQSQRRLSTSPDVIQGHQPRDNHTDHGGSAVLIVILTLALAALIFRRIYLANEYIFDFEL |
| 1442 | sp|Q8TD43|TRPM4\_HUMAN | MVVPEKEQSWIPKIFKKKTCTTFIVDSTDPGGTLCQCGRPRTAHPAVAMEDAFGAAVVTVWDSDAHTTEKPTDAYGELDFTGAGRKHSNFLRLSDRTDPAAVYSLVTRTWGFRAPNLVVSVLGGSGGPVLQTWLQDLLRRGLVRAAQSTGAWIVTGGLHTGIGRHVGVAVRDHQMASTGGTKVVAMGVAPWGVVRNRDTLINPKGSFPARYRWRGDPEDGVQFPLDYNYSAFFLVDDGTHGCLGGENRFRLRLESYISQQKTGVGGTGIDIPVLLLLIDGDEKMLTRIENATQAQLPCLLVAGSGGAADCLAETLEDTLAPGSGGARQGEARDRIRRFFPKGDLEVLQAQVERIMTRKELLTVYSSEDGSEEFETIVLKALVKACGSSEASAYLDELRLAVAWNRVDIAQSELFRGDIQWRSFHLEASLMDALLNDRPEFVRLLISHGLSLGHFLTPMRLAQLYSAAPSNSLIRNLLDQASHSAGTKAPALKGGAAELRPPDVGHVLRMLLGKMCAPRYPSGGAWDPHPGQGFGESMYLLSDKATSPLSLDAGLGQAPWSDLLLWALLLNRAQMAMYFWEMGSNAVSSALGACLLLRVMARLEPDAEEAARRKDLAFKFEGMGVDLFGECYRSSEVRAARLLLRRCPLWGDATCLQLAMQADARAFFAQDGVQSLLTQKWWGDMASTTPIWALVLAFFCPPLIYTRLITFRKSEEEPTREELEFDMDSVINGEGPVGTADPAEKTPLGVPRQSGRPGCCGGRCGGRRCLRRWFHFWGAPVTIFMGNVVSYLLFLLLFSRVLLVDFQPAPPGSLELLLYFWAFTLLCEELRQGLSGGGGSLASGGPGPGHASLSQRLRLYLADSWNQCDLVALTCFLLGVGCRLTPGLYHLGRTVLCIDFMVFTVRLLHIFTVNKQLGPKIVIVSKMMKDVFFFLFFLGVWLVAYGVATEGLLRPRDSDFPSILRRVFYRPYLQIFGQIPQEDMDVALMEHSNCSSEPGFWAHPPGAQAGTCVSQYANWLVVLLLVIFLLVANILLVNLLIAMFSYTFGKVQGNSDLYWKAQRYRLIREFHSRPALAPPFIVISHLRLLLRQLCRRPRSPQPSSPALEHFRVYLSKEAERKLLTWESVHKENFLLARARDKRESDSERLKRTSQKVDLALKQLGHIREYEQRLKVLEREVQQCSRVLGWVAEALSRSALLPPGGPPPPDLPGSKD |
| 1443 | sp|Q02159|UBC7\_YEAST | MSKTAQKRLLKELQQLIKDSPPGIVAGPKSENNIFIWDCLIQGPPDTPYADGVFNAKLEFPKDYPLSPPKLTFTPSILHPNIYPNGEVCISILHSPGDDPNMYELAEERWSPVQSVEKILLSVMSMLSEPNIESGANIDACILWRDNRPEFERQVKLSILKSLGF |
| 1444 | sp|O94609|UBA1\_SCHPO | MSNNMNIDQTDQNTIDEGLYSRQLYVLGHEAMKQMSQSNVLIIGCKGLGVEIAKNVCLAGVKSVTLYDPQPTRIEDLSSQYFLTEDDIGVPRAKVTVSKLAELNQYVPVSVVDELSTEYLKNFKCVVVTETSLTKQLEINDFTHKNHIAYIAADSRGLFGSIFCDFGENFICTDTDGNEPLTGMIASITDDGVVTMLEETRHGLENGDFVKFTEVKGMPGLNDGTPRKVEVKGPYTFSIGSVKDLGSAGYNGVFTQVKVPTKISFKSLRESLKDPEYVYPDFGKMMRPPQYHIAFQALSAFADAHEGSLPRPRNDIDAAEFFEFCKKIASTLQFDVELDEKLIKEISYQARGDLVAMSAFLGGAVAQEVLKATTSKFYPLKQYFYFDSLESLPSSVTISEETCKPRGCRYDGQIAVFGSEFQEKIASLSTFLVGAGAIGCEMLKNWAMMGVATGESGHISVTDMDSIEKSNLNRQFLFRPRDVGKLKSECASTAVSIMNPSLTGKITSYQERVGPESEGIFGDEFFEKLSLVTNALDNVEARMYVDRRCVFFEKPLLESGTLGTKGNTQVVVPHLTESYGSSQDPPEKSFPICTLKNFPNRIEHTIAWARDLFEGLFKQPIDNVNMYLSSPNFLETSLKTSSNPREVLENIRDYLVTEKPLSFEECIMWARLQFDKFFNNNIQQLLFNFPKDSVTSTGQPFWSGPKRAPTPLSFDIHNREHFDFIVAAASLYAFNYGLKSETDPAIYERVLAGYNPPPFAPKSGIKIQVNENEEAPETAANKDKQELKSIADSLPPPSSLVGFRLTPAEFEKDDDSNHHIDFITAASNLRAMNYDITPADRFKTKFVAGKIVPAMCTSTAVVSGLVCLELVKLVDGKKKIEEYKNGFFNLAIGLFTFSDPIASPKMKVNGKEIDKIWDRYNLPDCTLQELIDYFQKEEGLEVTMLSSGVSLLYANFQPPKKLAERLPLKISELVEQITKKKLEPFRKHLVLEICCDDANGEDVEVPFICIKL |
| 1445 | sp|B2GV24|UFL1\_RAT | MADAWEEIRRLAADFQRAQFAESTQRLSERNCIEIVNKLISQKQLEVVHTLDGKEYITPAQISKEMRDELHVRGGRVNIVDLQQVINVDLTHIENRVGDIIKSEKHVQMVLGQLVDENYLDRLSEEVNDKLQESGQVTVSELCKTYDLPGDFLTQALTQRLGRIINGHLDLDNRGVIFTEAFVARHKARIRGLFSAITRPTAVNSLVSKYGFQEQLLYSVLEELVSTGRLRGTVVGGRQDKAVFVPDIYSRTQSTWVDSFFRQNGYLEFDALSRLGIPDAVNYIKKRYKNTPLLFLKATCVGQGLVDQVEASVEEAISSGTWVDVSPLLPSSLSVEDAAMLLQQVMRPFGKHASATVFSDTVVVSEKFINDCTKLFSERMHQKAEKEMKNNPVHLITEEDLKQISILESVNTNKKDKKDERRKKATEGSGSVRGGGGGNAREYKIKKVKKKGRKDEDSDDESQSSHAGKKKPDITFMFQDEIEGCLRKHIPDAPEEFISELAEHLIKPLNKMYLEVVRSVFMSSTSASGTGRKRTIKDLQEEVSNLYNNIRLFEKGMKYFADDTQTALTKHLLKTVCTDITNLMFNFLASDLMMAVEDPATITSDMRKKILSKLTEETKVALTKLHNSLNEKSIEDFLSCLDSATEACDIMVKKGDKKRERQILFQHRQALADQLKVTEDPALILHLTSVLLFQFSTHSMLHAPGRCVPQIIAFLHNKIPEDQHTLLVKYQGLVVKQLVSQNKKSGQGEDPSSDDLDKEQHDVTNTTRKELQELSLSIKDLVLKPRKSSVTEE |
| 1446 | sp|Q9XSM3|TRPV5\_RABIT | MGACPPKAKGPWAQLQKLLISWPVGEQDWEQYRDRVNMLQQERIRDSPLLQAAKENDLRLLKILLLNQSCDFQQRGAVGETALHVAALYDNLEAATLLMEAAPELAKEPALCEPFVGQTALHIAVMNQNLNLVRALLARGASVSARATGAAFRRSPHNLIYYGEHPLSFAACVGSEEIVRLLIEHGADIRAQDSLGNTVLHILILQPNKTFACQMYNLLLSYDEHSDHLQSLELVPNHQGLTPFKLAGVEGNTVMFQHLMQKRKHVQWTCGPLTSTLYDLTEIDSWGEELSFLELVVSSKKREARQILEQTPVKELVSFKWKKYGRPYFCVLASLYILYMICFTTCCIYRPLKLRDDNRTDPRDITILQQKLLQEAYVTHQDNIRLVGELVTVTGAVIILLLEIPDIFRVGASRYFGQTILGGPFHVIIITYASLVLLTMVMRLTNMNGEVVPLSFALVLGWCSVMYFARGFQMLGPFTIMIQKMIFGDLMRFCWLMAVVILGFASAFHITFQTEDPNNLGEFSDYPTALFSTFELFLTIIDGPANYSVDLPFMYCITYAAFAIIATLLMLNLFIAMMGDTHWRVAQERDELWRAQVVATTVMLERKMPRFLWPRSGICGYEYGLGDRWFLRVENHHDQNPLRVLRYVEAFKCSDKEDGQEQLSEKRPSTVESGMLSRASVAFQTPSLSRTTSQSSNSHRGWEILRRNTLGHLNLGLDLGEGDGEEVYHF |
| 1447 | sp|Q8K1B8|URP2\_MOUSE | MAGMKTASGDYIDSSWELRVFVGEEDPEAQSVTLRVTGESHIGGVLLKIVEEINRKQDWSDHAIWWEQKRQWLLQTHWTLDKYGILADARLFFGPQHRPVILRLPNRRVLRLRASFSKPLFQTVAAICRLLSIRHPEELSLLRAPEKKEKKKKEKEPEEEVHDLTKVVLAGGVAPTLFRGMPAHFSDSAQTEACYHMLSRPQPAPDPLLLQRLPRPSSLPDKTQLHSRWLDSSRCLMQQGIKAGDVLWLRFKYYSFFDLDPKTDPVRLTQLYEQARWDLLTEEIDCTEEEMMVFAALQYHINKLTLSGDVGELASGDLGLDDLDAALNNLEVKLKGSAPSDMLDSLTTIPELKDHLRIFRPRKLTLKGYRQYWVVFKDTTLSYYKSQDEAPGDPTQQLNLKGCEVVPDVNVSGQKFCIKLLVPSPEGMSEIYLRCQDEQQYAQWMAACRLASKGRTMADSSYASEVQAILAFLSLQRAGGSNGGSGNKPQGPEAPAEGLNPYGLVAPRFQRKFKAKQLTPRILEAHQNVAQLSLTEAQLRFIQAWQSLPDFGISYVMVRFKGSRKDEILGIANNRLIRIDLAVGDVVKTWRFSNMRQWNVNWDIRQVAIEFDEHINVAFSCVSASCRIVHEYIGGYIFLSTRERARGEELDEDLFLQLTGGHEAF |
| 1448 | sp|P54578|UBP14\_HUMAN | MPLYSVTVKWGKEKFEGVELNTDEPPMVFKAQLFALTGVQPARQKVMVKGGTLKDDDWGNIKIKNGMTLLMMGSADALPEEPSAKTVFVEDMTEEQLASAMELPCGLTNLGNTCYMNATVQCIRSVPELKDALKRYAGALRASGEMASAQYITAALRDLFDSMDKTSSSIPPIILLQFLHMAFPQFAEKGEQGQYLQQDANECWIQMMRVLQQKLEAIEDDSVKETDSSSASAATPSKKKSLIDQFFGVEFETTMKCTESEEEEVTKGKENQLQLSCFINQEVKYLFTGLKLRLQEEITKQSPTLQRNALYIKSSKISRLPAYLTIQMVRFFYKEKESVNAKVLKDVKFPLMLDMYELCTPELQEKMVSFRSKFKDLEDKKVNQQPNTSDKKSSPQKEVKYEPFSFADDIGSNNCGYYDLQAVLTHQGRSSSSGHYVSWVKRKQDEWIKFDDDKVSIVTPEDILRLSGGGDWHIAYVLLYGPRRVEIMEEESEQ |
| 1449 | sp|Q7CRQ0|URODH\_AGRFC | MKRLLVTGAAGQLGRVMRERLAPMAEILRLADLSPLDPAGPNEECVQCDLADANAVNAMVAGCDGIVHLGGISVEKPFEQILQGNIIGLYNLYEAARAHGQPRIVFASSNHTIGYYPQTERLGPDVPARPDGLYGVSKCFGENLARMYFDKFGQETALVRIGSCTPEPNNYRMLSTWFSHDDFVSLIEAVFRAPVLGCPVVWGASANDAGWWDNSHLGFLGWKPKDNAEAFRRHITETTPPPDPNDALVRFQGGTFVDNPIFKQS |
| 1450 | sp|Q9SB51|UBP16\_ARATH | MLLVLDLGISSLVLVVSLVLPLIGLFVRHKWRVAAQRREEIRRLLIHASEEAARAELEASVEFSSVAVSNVFHCPVCYCLATTRCSRCKAVRYCSGKCQIIHWRQGHKDECHPASIVYDSEDESDSDLRLGEENGQNTPEETLLVGPEPVTIPIGESLLSNRARSPEDGNGDIADNKDDLIDKEEAVSVAETSGSSFSGFSSSPRNDSGDEISRCESFSSSESERSESLLDAHVSVEPEDTCFSTIEDAPSKLLSPKFVHLVESVDNLANLPKLSVHKPEDDAGQNQSQSRSLHSLVTDRHPVSADPSLKSSDFWGTALGSAERVSDSCVKSKSGRPGNSSLHFSFGSGSSRDTSAAKVSEQRSSILKEAPRGTGYISDGVNLRERNAKRFDEAEIALPISSSTDALSPLDSSNLSHVTLPKSKSASSENGSMLAPLKVGEVQLLASKASNTKKCADLMKHSPLGAKSVRVLDHQKQNGAVVQHINSLHGRSGLKASVLKVVDQWTRPKSENEMAGRHGHKGLFPYEVFAKLYTYKIEFQPCGLINVGNSCFANVVFQCLMFTPPLTTYFLQQFHSRACTKKEQCFTCGFEKLVVKAKEEKSPLSPNGLLSQLQNIGIFLGNGKEEDAHEFLRFVVDTMQSVCIKASEYDMTKSSKLEDTTLIGLTFGGYLRSKIKCMKCQVKSELREKMMDLTVEIDGDISTLDDALRRFTRTEILDGENKYRCGSCKSYERAKKKLKITEPPNVLTIALKRFQAGKFGKLNKLIRFPETLDLAPYVSGGSEKSHDYKLYGVIVHLDVMNAAFSGHYVCYIRNQNKWYKADDSTVVTSDVERILTKGAYMLFYARCTPTPPRLAVCTKTEASNKKSRVPLPKANEKSTISRSVSTSSPELSSNTPGGGRSGNIQSFYSSFQRLQKILEEDSASDSSSLFDSNSDECSCSTDSTSMDDFADFIFGDHQGRAHGQSETPSPTSSSSSSSPPFTRRSPLSRSSPETYGTSRHQLPLGGER |
| 1451 | sp|Q14694|UBP10\_HUMAN | MALHSPQYIFGDFSPDEFNQFFVTPRSSVELPPYSGTVLCGTQAVDKLPDGQEYQRIEFGVDEVIEPSDTLPRTPSYSISSTLNPQAPEFILGCTASKITPDGITKEASYGSIDCQYPGSALALDGSSNVEAEVLENDGVSGGLGQRERKKKKKRPPGYYSYLKDGGDDSISTEALVNGHANSAVPNSVSAEDAEFMGDMPPSVTPRTCNSPQNSTDSVSDIVPDSPFPGALGSDTRTAGQPEGGPGADFGQSCFPAEAGRDTLSRTAGAQPCVGTDTTENLGVANGQILESSGEGTATNGVELHTTESIDLDPTKPESASPPADGTGSASGTLPVSQPKSWASLFHDSKPSSSSPVAYVETKYSPPAISPLVSEKQVEVKEGLVPVSEDPVAIKIAELLENVTLIHKPVSLQPRGLINKGNWCYINATLQALVACPPMYHLMKFIPLYSKVQRPCTSTPMIDSFVRLMNEFTNMPVPPKPRQALGDKIVRDIRPGAAFEPTYIYRLLTVNKSSLSEKGRQEDAEEYLGFILNGLHEEMLNLKKLLSPSNEKLTISNGPKNHSVNEEEQEEQGEGSEDEWEQVGPRNKTSVTRQADFVQTPITGIFGGHIRSVVYQQSSKESATLQPFFTLQLDIQSDKIRTVQDALESLVARESVQGYTTKTKQEVEISRRVTLEKLPPVLVLHLKRFVYEKTGGCQKLIKNIEYPVDLEISKELLSPGVKNKNFKCHRTYRLFAVVYHHGNSATGGHYTTDVFQIGLNGWLRIDDQTVKVINQYQVVKPTAERTAYLLYYRRVDLL |
| 1452 | sp|Q9UK80|UBP21\_HUMAN | MPQASEHRLGRTREPPVNIQPRVGSKLPFAPRARSKERRNPASGPNPMLRPLPPRPGLPDERLKKLELGRGRTSGPRPRGPLRADHGVPLPGSPPPTVALPLPSRTNLARSKSVSSGDLRPMGIALGGHRGTGELGAALSRLALRPEPPTLRRSTSLRRLGGFPGPPTLFSIRTEPPASHGSFHMISARSSEPFYSDDKMAHHTLLLGSGHVGLRNLGNTCFLNAVLQCLSSTRPLRDFCLRRDFRQEVPGGGRAQELTEAFADVIGALWHPDSCEAVNPTRFRAVFQKYVPSFSGYSQQDAQEFLKLLMERLHLEINRRGRRAPPILANGPVPSPPRRGGALLEEPELSDDDRANLMWKRYLEREDSKIVDLFVGQLKSCLKCQACGYRSTTFEVFCDLSLPIPKKGFAGGKVSLRDCFNLFTKEEELESENAPVCDRCRQKTRSTKKLTVQRFPRILVLHLNRFSASRGSIKKSSVGVDFPLQRLSLGDFASDKAGSPVYQLYALCNHSGSVHYGHYTALCRCQTGWHVYNDSRVSPVSENQVASSEGYVLFYQLMQEPPRCL |
| 1453 | sp|P20795|VPS33\_YEAST | MNRFWNTKKFSLTNADGLCATLNEISQNDEVLVVQPSVLPVLNSLLTFQDLTQSTPVRKITLLDDQLSDDLPSALGSVPQMDLIFLIDVRTSLRLPPQLLDAAQKHNLSSLHIIYCRWKPSFQNTLEDTEQWQKDGFDLNSKKTHFPNVIESQLKELSNEYTLYPWDLLPFPQIDENVLLTHSLYNMENVNMYYPNLRSLQSATESILVDDMVNSLQSLIFETNSIITNVVSIGNLSKRCSHLLKKRIDEHQTENDLFIKGTLYGERTNCGLEMDLIILERNTDPITPLLTQLTYAGILDDLYEFNSGIKIKEKDMNFNYKEDKIWNDLKFLNFGSIGPQLNKLAKELQTQYDTRHKAESVHEIKEFVDSLGSLQQRQAFLKNHTTLSSDVLKVVETEEYGSFNKILELELEILMGNTLNNDIEDIILELQYQYEVDQKKILRLICLLSLCKNSLREKDYEYLRTFMIDSWGIEKCFQLESLAELGFFTSKTGKTDLHITTSKSTRLQKEYRYISQWFNTVPIEDEHAADKITNENDDFSEATFAYSGVVPLTMRLVQMLYDRSILFHNYSSQQPFILSREPRVSQTEDLIEQLYGDSHAIEESIWVPGTITKKINASIKSNNRRSIDGSNGTFHAAEDIALVVFLGGVTMGEIAIMKHLQKILGKKGINKRFIIIADGLINGTRIMNSIS |
| 1454 | sp|Q9EQH3|VPS35\_MOUSE | MPTTQQSPQDEQEKLLDEAIQAVKVQSFQMKRCLDKNKLMDALKHASNMLGELRTSMLSPKSYYELYMAISDELHYLEVYLTDEFAKGRKVADLYELVQYAGNIIPRLYLLITVGVVYVKSFPQSRKDILKDLVEMCRGVQHPLRGLFLRNYLLQCTRNILPDEGEPTDEETTGDISDSMDFVLLNFAEMNKLWVRMQHQGHSRDREKRERERQELRILVGTNLVRLSQLEGVNVERYKQIVLTGILEQVVNCRDALAQEYLMECIIQVFPDEFHLQTLNPFLRACAELHQNVNVKNIIIALIDRLALFAHREDGPGIPAEIKLFDIFSQQVATVIQSRQDMPSEDVVSLQVSLINLAMKCYPDRVDYVDKVLETTVEIFNKLNLEHIATSSAVSKELTRLLKIPVDTYNNILTVLKLKHFHPLFEYFDYESRKSMSCYVLSNVLDYNTEIVSQDQVDSIMNLVSTLIQDQPDQPVEDPDPEDFADEQSLVGRFIHLLRSDDPDQQYLILNTARKHFGAGGNQRIRFTLPPLVFAAYQLAFRYKENSQMDDKWEKKCQKIFSFAHQTISALIKAELAELPLRLFLQGALAAGEIGFENHETVAYEFMSQAFSLYEDEISDSKAQLAAITLIIGTFERMKCFSEENHEPLRTQCALAASKLLKKPDQGRAVSTCAHLFWSGRNTDKNGEELHGGKRVMECLKKALKIANQCMDPSLQVQLFIEILNRYIYFYEKENDAVTIQVLNQLIQKIREDLPNLESSEETEQINKHFHNTLEHLRSRRESPESEGPIYEGLIL |
| 1455 | sp|P26602|UBIC\_ECOLI | MSHPALTQLRALRYCKEIPALDPQLLDWLLLEDSMTKRFEQQGKTVSVTMIREGFVEQNEIPEELPLLPKESRYWLREILLCADGEPWLAGRTVVPVSTLSGPELALQKLGKTPLGRYLFTSSTLTRDFIEIGRDAGLWGRRSRLRLSGKPLLLTELFLPASPLY |
| 1456 | sp|Q5U430|UBR3\_MOUSE | MAAAAAAAAVGDPQPPQPEAPAQGLALDKAATAAHLKAALSRPDNRAGAEELQALLERVLNAERPLAGAAGGEEAAGGGGGGPGEAEEDALEWCKCLLAGGGGYEEFCAAVRAYDPAALCGLVWTANFVAYRCRTCGISPCMSLCAECFHQGDHTGHDFNMFRSQAGGACDCGDSNVMRESGFCRRHQIKSSSNIPCVPKDLLMMSEFVLPRFIFCLIQYLREGYNEPAADAPSEKDLNKVLQLLEPQISFLEDLTKMGGAMRSVLTQVLTNQQNYKDLTAGLGENACAKKSHEKYLIALKSSGLTYPEDKLVYGVQEPAAGTSTLAAQGFAGATGTLGQIDSSDEEDQDGSQGLGKRKRVKLSSGTKDQSIMDVLKHKSFLEELLFWTIKYEFPQKMVTFLLNMLPDQEYKVAFTKTFVQHYAFIMKTLKKSHESDTMSNRIVHISVQLFSNEELARQVTEECQLLDIMVTVLLYMMESCLIKSELQDEENSLHVVVNCGEALLKNNTYWPLVSDFINILSHQSVAQRFLEDHGLLVTWMNFVSFFQGMNLNKRELNEHVEFESQTYYAAFAAELEACAQPMWGLLSHCKVRETQEYTRNVVRYCLEALQDWFDAINFVDEPAPNQVTFHLPLHRYYAMFLSKAVKCQELDLDSLLPDQEMLMKLMIHPLQIQASLAEIHSNMWVRNGLQIKGQAMTYVQSHFCNSMIDPDIYLLQVCASRLDPDYFISSVFERFKVVDLLTMASQHHNMVLDVEHERSMLEGALTFLVILLSLRLHLGMSDDDILRAEMVAQLCMNDRTHSSLLDLIPENPNPKSGIIPGSYSFESVLSAVADFRAPIFEPGGSMQQGMYTPKAEVWDQEFDPVMVILRTVYRRDVQSAMDRYTAFLKQSGKFPGNPWPPYKKRTSLHPSYKGLMRLLHCKTLHIVLFTLLYKILMDHQNLSEHVLCMVLYLIELGLENSADDDSEEEVSMGGPERCHDSWFPGSNLVSNMRHFINYVRVRVPETAPELKRDPLASTSSDALDSLQNSGTAQVFSLVAERRKKFQEIINRSNSEANQVVRPKIPSKWSAPGSSPQLTTAILEIKESILSLLIKLHHKLSGKQNSYYPPWLDDIEVLIQPEIPKYNHGDGITAVERILLKAAVQSRMNKRIIEEICRKVTPPVPPKKITAAEKKTLDKEERRQKARERQQKLLAEFASRQKSFMETAMDVDSPENDIPMEITTAEPQVSEAVYDCVICGQSGPSSEDRPTGLVVLLQASSVLGQCRDNAEPKKLPIAEEEQIYPWDTCAAVHDVRLSLLQRYFKDSSCLLAVSIGWEGGVYVQTCGHTLHIDCHKSYMESLRNDQVLQGFSVDKGEFTCPLCRQFANSVLPCYPGSNVENNLWQRPCNKSTQDLIKEVEELQGRPGAFPSETNLSKEMESVMKDIKNTTQKKYRDYSKTPGSPDNEFLFMYSVARTNLELELIHRGGSLCSGGPSTAGKRSCLNQLFHVLALHMRLYTIDSEYNPWKKLTQLVEDMNSQVGNEDQQPEVPILYHDVTSLLLIQILMMPQPLRKEHFTCIVKVLFTLLYTQALAALSVKGTEEDRSAWKHAGALRKDTCDAEKCYEVLLSFVISELSKGKLYYEEGAQECAMVSPIAWSPESMERYIQDFCLPFLRVSSLLQHHLFGEDLPSCQEEEEFSVLASCLGLLPTFYQTDHPFISASCLDWPVAAFDIITQWCFEITSFTERHAEQGKALLIQESRWKLPHLLQLPENYNTIFQYYHRKTCSVCTKVPKDPAVCLVCGTFVCLKGLCCKQQSYCECVLHSQNCGAGTGIFLLINASVIIIIRGHRFCLWGSVYLDAHGEEDRDLRRGKPLYICEERYRVLEQQWVSHTFDHINKRWGPHYNGL |
| 1457 | sp|Q793F9|VPS4A\_RAT | MTTSTLQKAIDLVTKATEEDKAKNYEEALRLYQHAVEYFLHAIKYEAHSDKAKESIRAKCMQYLDRAEKLKDYLRNKEKHGKKPVKENQSEGKGSDSDSEGDNPEKKKLQEQLMGAVVMEKPNIRWNDVAGLEGAKEALKEAVILPIKFPHLFTGKRTPWRGILLFGPPGTGKSYLAKAVATEANNSTFFSVSSSDLMSKWLGESEKLVKNLFELARQHKPSIIFIDEVDSLCGSRNENESEAARRIKTEFLVQMQGVGNNNDGTLVLGATNIPWVLDSAIRRRFEKRIYIPLPEEAARAQMFRLHLGSTPHNLTDANIHELARKTEGYSGADISIIVRDSLMQPVRKVQSATHFKKVCGPSRTNPSVMIDDLLTPCSPGDPGAIEMTWMDVPGDKLLEPVVCMSDMLRSLATTRPTVNADDLLKVKKFSEDFGQES |
| 1458 | sp|P52583|VGFR2\_COTJA | MELGPLRVLTVLLCLAPVFAGLFISMDQPTLSIQKSVLTITTNDTLNITCSGQRAVYWSWPNNQSSVEKRLAVTGCSEGPFCKTLTLLRVIGNDTGDYRCLYGDSQAATTIYVYVQDYRSPFVTSVGDQLGIVYITKNKTVVVPCLGTVSNLNVSLHAKYPEKVFVPDGKSISWDNKKGFTIPSHLINYAGMVFCEAKIDNESYQSVIYIVAVVGYRIYDLTMNPHYQVELAVGEKLVLNCTVRTELNVGIDFRWDYPSIKERRATIRDLKTTAGEIKTFVSTLTIESVNLSDKGRYTCAASSGRMNMKNSSYFIIHESPFIHLEKMENVVEMKLGDTVSIPVKFKGYPPPEAKWYKNGKVINANHTVKLGYALVITEATEKDAGNYTVVLTNPTNKMQKRHTFTLLVNVPPQIGENALMAPVDSYKYGSTQALTCTIYAVPPPAAVLWYWQLEEECTFSPQKVRLGANPYACRKWKVISERKGGNQVEIKQRVVTIAGKTKTVSTLVIQAANVSALYRCMATNRAGSSERVISFHVTRGLEINLQPRSQLTEKDNTSLQCTADKFTFEKLSWYKLSTHVSQTPFGGLPMPVCKNLDALQKLNATVSNVNGENVTLELILRNISLQDGGDYVCIAQDKKAKTQHCLVKHLTVQEPLHPRLVGNLENQTTNIGETIEVLCTVNGVPPPNITWFKNSETLFEDSGIVLKDGNKTLTIRRVRKEDGGLYTCLACNILGCKKAEAFFSVQGAEEKTNLELIILVGTAVIAMFFWLLLVIILRTVKRANGGDMKTGYLSIIMDPDEVPIDEHCERLPYDASKWEFPRDRLKLGKPLGRGAFGQVIEADAFGIDKTATCRTVAVKMLKEGATHSEHRALMSELKILIHIGHHLNVVNLLGACTKPGGPLMVIVEYCKFGNLSAYLRSKRSEFIPYKMKSARFRQGKENYTGDISTDLKQRLDSITSSQSSTSSGFVEERSLSDVEEEDAGSEDLCKNPLTMEDLICYSFQVARGMEFLASRKCIHRDLAARNILLSDNNVVKICDFGLARDIYKDPDYVRKGDARLPLKWMAPETIFDRVYTIQSDVWSFGVLLWEIFSLGASPYPGVKIDEEFCRRLKEGTRMRAPDYTTPEMYQTMLDCWHGDPKQRPTFSELVEHLGNLLQANVRQDGKDYVVLPLSVSLNMEEDSGLSLPTSPASCKEEEEVCDPKFHYDNTAGISQYRQGSKRKSRPVSVKTFEDIPLVTTVKVVQEENQTDSGMVLASEELKTLEEQDKQVKIPFSTLAPSKSNESVMSEASNQTSGYQSGYHSDDMDNMVCSSEDTELLCAQEASPTLPRCAWPGIYSPAPVASLPL |
| 1459 | sp|P39904|VPS52\_YEAST | MDVLKEVLSLDQDKFDQLKETSRDKTNETDDPFENYLKDCKFKAPSNKDQSPFAKLKSLQETHSNNEAAINIIIPQLIDYLTEFTNRLSNYTQDLDFIKKKSNELQSLLEYNSTKLAHISPMVNDLMIPPELIDDIIKGKINESWQDNITFIADKEEIYNKYRSNNLDQDNKDAENSAMLAPKDFDKLCQLLDILKNVILERSKRLIISKIKTLRSHNPVPSQRIQNKLLKVQKIFPFIRDNNLSLALELRQAYCYTMKWYYREYFSRYIRSLTILQFQQIDSQFALGNGLSTTSVSGFNNSPSLFFSNYLTTSASNAFYNKLPVTDEKIDKYFQIKKRLNILTQEDNTVMVSQIAENNTTKNYIEIGFKNLNLAILDNCTVEYHFLKDFFAMNGDNFEEINGLLEQIFQPTFDEATTYTQQLIQYNYDIFGVLISIRVANQLQFESERRGIPSMFDSFLNGQLIQLWPRFQQLVDFQCESLRKAAITTNVAKYAGNSSTSNSSPLTSPHELTVQFGKFLSSFLTLAITHKQSIDERSEPLYNSIIRLRNDFETVMTKCSKKTKSPERFLATNYMYLYNNLQQLHLHLNINDSDAQNYNFDSAENVGTKVANDDDNDSSVPLIIRETENHFKTLVEAFTRN |
| 1460 | sp|Q8BLE7|VGLU2\_MOUSE | MESVKQRILAPGKEGIKNFAGKSLGQIYRVLEKKQDNRETIELTEDGKPLEVPEKKAPLCDCTCFGLPRRYIIAIMSGLGFCISFGIRCNLGVAIVDMVNNSTIHRGGKVIKEKAKFNWDPETVGMIHGSFFWGYIITQIPGGYIASRLAANRVFGAAILLTSTLNMLIPSAARVHYGCVIFVRILQGLVEGVTYPACHGIWSKWAPPLERSRLATTSFCGSYAGAVIAMPLAGILVQYTGWSSVFYVYGSFGMVWYMFWLLVSYESPAKHPTITDEERRYIEESIGESANLLGAMEKFKTPWRKFFTSMPVYAIIVANFCRSWTFYLLLISQPAYFEEVFGFEISKVGMLSAVPHLVMTIIVPIGGQIADFLRSKQILSTTTVRKIMNCGGFGMEATLLLVVGYSHTRGVAISFLVLAVGFSGFAISGFNVNHLDIAPRYASILMGISDGVGTLSGMVCPIIVGAMTKNKSREEWQYVFLIAALVHYGGVIFYALFASGEKQPWADPEETSEEKCGFIHEDELDEETGDITQNYINYGTTKSYGATSQENGGWPNGWEKKEEFVQEGAQDAYTYKDRDDYS |
| 1461 | sp|P52735|VAV2\_HUMAN | MEQWRQCGRWLIDCKVLPPNHRVVWPSAVVFDLAQALRDGVLLCQLLHNLSPGSIDLKDINFRPQMSQFLCLKNIRTFLKVCHDKFGLRNSELFDPFDLFDVRDFGKVISAVSRLSLHSIAQNKGIRPFPSEETTENDDDVYRSLEELADEHDLGEDIYDCVPCEDGGDDIYEDIIKVEVQQPMIRYMQKMGMTEDDKRNCCLLEIQETEAKYYRTLEDIEKNYMSPLRLVLSPADMAAVFINLEDLIKVHHSFLRAIDVSVMVGGSTLAKVFLDFKERLLIYGEYCSHMEHAQNTLNQLLASREDFRQKVEECTLKVQDGKFKLQDLLVVPMQRVLKYHLLLKELLSHSAERPERQQLKEALEAMQDLAMYINEVKRDKETLRKISEFQSSIENLQVKLEEFGRPKIDGELKVRSIVNHTKQDRYLFLFDKVVIVCKRKGYSYELKEIIELLFHKMTDDPMNNKDVKKSHGKMWSYGFYLIHLQGKQGFQFFCKTEDMKRKWMEQFEMAMSNIKPDKANANHHSFQMYTFDKTTNCKACKMFLRGTFYQGYMCTKCGVGAHKECLEVIPPCKFTSPADLDASGAGPGPKMVAMQNYHGNPAPPGKPVLTFQTGDVLELLRGDPESPWWEGRLVQTRKSGYFPSSSVKPCPVDGRPPISRPPSREIDYTAYPWFAGNMERQQTDNLLKSHASGTYLIRERPAEAERFAISIKFNDEVKHIKVVEKDNWIHITEAKKFDSLLELVEYYQCHSLKESFKQLDTTLKYPYKSRERSASRASSRSPASCASYNFSFLSPQGLSFASQGPSAPFWSVFTPRVIGTAVARYNFAARDMRELSLREGDVVRIYSRIGGDQGWWKGETNGRIGWFPSTYVEEEGIQ |
| 1462 | sp|O74429|VIP1\_SCHPO | MIQNASHLTSIDTESSTRTASPVSSIVTPTKRNVVGICAMDAKARSKPCRNILNRIIAEGEFEAIVFGDNMILDEAVENWPACDYLICFYSSGFPLKKAEKYVELRKPFCVNDVVFQELLWDRRLVLNILDAIRVSTPQRLICSRDGGPKINKVLEEKLRRKFGIEITEVPTPEVKMLDEDTLSVDGKIIKKPYVEKPVYGEDHNIYIYFPKSVGGGGRKLFRKVANKSSDYDPDLCAPRTEGSFIYEEFMNVDNAEDVKVYTVGPHYSHAETRKSPVVDGIVRRNPHGKEIRFITNLSEEEKNMASKISIAFEQPVCGFDLLRVSGQSYVIDVNGWSFVKDNNDYYDNAARILKQMFHVAERHRRNRVPSVQEVLNPPPRESEAWRLKSLVGVLRHADRTPKQKFKFSFTSDPFVKLLQGHTEEVILRNEQLNSVLAATNLATELKCEDINKLKQLRLALETKKDLPGTKVQLKPAYSPEGKLLKLQLIIKWGGEFTHSARYQSKDLGEQFHKDLYIMNRDCLKDVEIYTSSERRVSASAEIFAMAFLEQETIPSDLLKVRKDLLDDSNAAKDTMDKVKKHLKSLLRVGDTARKEFTWPENMPKPCEVMQQVVQLMKYHRAVMRENFIILGPEVEQVQSRWCCNENPALFRERWEKLFSEFCDSEKADPSKVSELYDTLKYDALHNRQFLERIFTPYQYLKLPQSPSLIAKEPPQRTDSNGNLVGMTGANTNHTERPLEKLYELYDLAKVLFDFVSPQEYGIEPKEKLEIGLLTSVPLLRQIIHDIKEARDSDHASTRMYFTKESHIYTLLNCILESGLPMKLPRNQIPELDYLTQICFELFERTNPSGNKEFSVRITLSPGCYAQCPLDMNLDAKHCISVSPRRSLTRHLDLQQFITKTEDLCNSVHLPKRFIPVNIN |
| 1463 | sp|P40338|VHL\_MOUSE | MPRKAASPEEAAGEPGPEEMEAGRPRPVLRSVNSREPSQVIFCNRSPRVVLPLWLNFDGEPQPYPILPPGTGRRIHSYRGHLWLFRDAGTHDGLLVNQTELFVPSLNVDGQPIFANITLPVYTLKERCLQVVRSLVKPENYRRLDIVRSLYEDLEDYPSVRKDIQRLSQEHLESQHLEEEP |
| 1464 | sp|O93523|VM3BP\_BOTJA | MIEVLLVTICLAAFPYQGSSIILESGNVNDYEVVYPRKVTALPKGAVQPKYEDAMQYEFKVNGEPVVLHLEKNKGLFSKDYSETHYSPDGREITTYPAVEDHCYYHGRIENDADSTASISACNGLKGHFKLQRETYFIEPLKLSNSEAHAVFKYENVEKEDEAPKMCGVTQNWKSYEPIKKASQLVVTAEQQKYNPFRYVELFIVVDQGMVTKNNGDLDKIKARMYELANIVNEILRYLYMHAALVGLEIWSNGDKITVKPDVDYTLNSFAEWRKTDLLTRKKHDNAQLLTAIDFNGPTIGYAYIGSMCHPKRSVAIVEDYSPINLVVAVIMAHEMGHNLGIHHDTDFCSCGDYPCIMGPTISNEPSKFFSNCSYIQCWDFIMKENPQCILNEPLGTDIVSPPVCGNELLEVGEECDCGTPENCQNECCDAATCKLKSGSQCGHGDCCEQCKFSKSGTECRASMSECDPAEHCTGQSSECPADVFHKNGQPCLDNYGYCYNGNCPIMYHQCYALFGADVYEAEDSCFKDNQKGNYYGYCRKENGKKIPCAPEDVKCGRLYCKDNSPGQNNPCKMFYSNDDEHKGMVLPGTKCADGKVCSNGHCVDVATAY |
| 1465 | sp|P59637|VEMP\_CVHSA | MYSFVSEETGTLIVNSVLLFLAFVVFLLVTLAILTALRLCAYCCNIVNVSLVKPTVYVYSRVKNLNSSEGVPDLLV |
| 1466 | sp|Q12241|VAM3\_YEAST | MSFFDIEAQSSKGNSQQEPQFSTNQKTKELSNLIETFAEQSRVLEKECTKIGSKRDSKELRYKIETELIPNCTSVRDKIESNILIHQNGKLSADFKNLKTKYQSLQQSYNQRKSLFPLKTPISPGTSKERKDIHPRTEAVRQDPESSYISIKVNEQSPLLHNEGQHQLQLQEEQEQQQQGLSQEELDFQTIIHQERSQQIGRIHTAVQEVNAIFHQLGSLVKEQGEQVTTIDENISHLHDNMQNANKQLTRADQHQRDRNKCGKVTLIIIIVVCMVVLLAVLS |
| 1467 | sp|O95231|VENTX\_HUMAN | MRLSSSPPRGPQQLSSFGSVDWLSQSSCSGPTHTPRPADFSLGSLPGPGQTSGAREPPQAVSIKEAAGSSNLPAPERTMAGLSKEPNTLRAPRVRTAFTMEQVRTLEGVFQHHQYLSPLERKRLAREMQLSEVQIKTWFQNRRMKHKRQMQDPQLHSPFSGSLHAPPAFYSTSSGLANGLQLLCPWAPLSGPQALMLPPGSFWGLCQVAQEALASAGASCCGQPLASHPPTPGRPSLGPALSTGPRGLCAMPQTGDAF |
| 1468 | sp|O61460|VAB1\_CAEEL | MRLYNSRILNPHQSIFILVLQCLITIVTSHQEVLFDLSKVGSDLKWDQVSLRHDRDDVWMEETWRNPAATDEKHANQRAYVTCNYDMINPSNWLFSHFIEVKTARRIYIELLFNTRDCDAYLNPKSCKETFSVYLKQFKTSRPGSTKIEKERFSEDIDNWKNIGRLARSNSNMTTETLGMEIDSDTKTIRIAFEEQGICLSLLNVKIYYRICDEFTDQLVYFRPQVTGPKETDMVRMNGSCIPNASKKIPGVDLIGLCMSTGSGIKTSGECVCDSGYSQIADSNGARCESCPTNTYKPKGQSLCKSCPSNSISSEAASSCRCLNGYFRAEDELISMPCTQPPSRPIKLVANAITATSTRLSWNEPSSLGGRPEIWYEVKCSGRGECGTVVMTPGDKKLSTRSVQINGLRPSSDYTFLVFAKNKVSAQFPEFSEKNAVIDIRTRSEEEDVPPVSHLRVDASQSDGITIAWSVSDSDVSDFEVEVRPAIVKKRTFETRHVNMTYTTFIGLNPETVYQFRVRIRDDLRWSQPISYQLGRGLMSSPSSNEVEESQFLNQTGSALLIIIALILIVIAVALCMIVVQKKSKNRKQMSDLDVLDTYKQDSMTPDYHTTSRHHHHQGNLPATLHEQLRSTTKLNAPLIPSFGSPISQPPPYYGGVHPNSGKYKTYVDPTTYEDPYQALIEFTFDISPNDVFITQVIGGGEFGDVCLGGLSKNSPAAAKWSVSNTTMGRGGGGGGYESEPYETVAIKTLKSGSSAKAKAEFLTEATIMGQFSHPNVIRLIGVVTSAEPVMIVAEYMANGSLDQFLRNTDQRGEKVHWEKITEMLYGIASGMKYLTDMGYVHRVSFLRDLAARNVLLDMELRCKIADFGLSRGVRSEGSSVEPEYTTNGGKIPVRWTAPEAITHRKFTPSSDVWSFGVVIWEVCSFGERPYWDWTNQKVISEVMIGYRLPPPMDCPMGLYRIAQWCWKMERHERPTFTQLLATFHKYILQPTLIEHDPGELPRRVQSQSALNTYGSVNVGVVPTPPSSAAPMPSLDDFLRQIGLNHVYGQLVSNNIHSVSDLANTSHLDLLAYGLMSAECSTVRDGLNGRISGSPPGSSGTIHATTRGTRTTRPPREEGFFV |
| 1469 | sp|P40498|UTP25\_YEAST | MSDSSVREKNDNFRGYRKRGRQELRKIKRSSARTEGGSTETLEDVAEDIDHRSDEDEVSDVDSGDDFDIEDEEGKKEKVYDALLTILKSEHPEPKRRRREADESNKAPAEVGEDEHENTEHGPVDDQLEIENGLLGNHEDDNDDDSSGDEKDIDSEDEQDPFESHFNQVPEKFVDKLSNAFKTKSVKYKSVKGSLSDSESYIYAKPVVIGEEALVESPYRSSSIYSYFLKQRLKVQNGLLDKKTDPLTALQKKLVDPMFQYKDILYEYDSYEKDEDEYRDLYALHVLNHIYKTRDRILKNNQRLQDNPDTEHLDQGFTRPKVLIVVPTREVAYRVVDKIISKSGIDQVDKKGKFYDQFRDDSLPPKSKPKSFQHIFRGNTNDFFVVGLKFTRKAIKLYSNFYQSDIIVCSPLGIQMILENTDKKKRQDDFLSSIELMVIDQLHSIEYQNISHIFTIFDHLNKIPDQQHEADFSRIRMWYINEQAKLFRQTMVFTKYISPAANSLINGRCRNMAGRWKNHKVIGSENSSIGQSGLKIRQIFQRFDIIGNSIIEEPDYRFKFFTSVIIPGIVKSTGYEDGILIYIPDYTDFIRIRNYMKEKTTILFGDINEYSSQRQLNANRSLFQQGRLKVMLYTERLHHYRRYEIKGVKSVVFYKPPNNPEFYNEVVRFIGKNAFLGNTDLNISTVRCIYSKLDGLSLERIVGTKRAAVLSHAQKEIYEFK |
| 1470 | sp|P56216|VAOX\_PENSI | MSKTQEFRPLTLPPKLSLSDFNEFIQDIIRIVGSENVEVISSKDQIVDGSYMKPTHTHDPHHVMDQDYFLASAIVAPRNVADVQSIVGLANKFSFPLWPISIGRNSGYGGAAPRVSGSVVLDMGKNMNRVLEVNVEGAYCVVEPGVTYHDLHNYLEANNLRDKLWLDVPDLGGGSVLGNAVERGVGYTPYGDHWMMHSGMEVVLANGELLRTGMGALPDPKRPETMGLKPEDQPWSKIAHLFPYGFGPYIDGLFSQSNMGIVTKIGIWLMPNPRGYQSYLITLPKDGDLKQAVDIIRPLRLGMALQNVPTIRHILLDAAVLGDKRSYSSRTEPLSDEELDKIAKQLNLGRWNFYGALYGPEPIRRVLWETIKDAFSAIPGVKFYFPEDTPENSVLRVRDKTMQGIPTYDELKWIDWLPNGAHLFFSPIAKVSGEDAMMQYAVTKKRCQEAGLDFIGTFTVGMREMHHIVCIVFNKKDLIQKRKVQWLMRTLIDDCAANGWGEYRTHLAFMDQIMETYNWNNSSFLRFNEVLKNAVDPNGIIAPGKSGVWPSQYSHVTWKL |
| 1471 | sp|P04014|VE1\_HPV11 | MADDSGTENEGSGCTGWFMVEAIVEHTTGTQISEDEEEEVEDSGYDMVDFIDDRHITQNSVEAQALFNRQEADAHYATVQDLKRKYLGSPYVSPISNVANAVESEISPRLDAIKLTTQPKKVKRRLFETRELTDSGYGYSEVEAATQVEKHGDPENGGDGQERDTGRDIEGEGVEHREAEAVDDSTREHADTSGILELLKCKDIRSTLHGKFKDCFGLSFVDLIRPFKSDRTTCADWVVAGFGIHHSIADAFQKLIEPLSLYAHIQWLTNAWGMVLLVLIRFKVNKSRCTVARTLGTLLNIPENHMLIEPPKIQSGVRALYWFRTGISNASTVIGEAPEWITRQTVIEHSLADSQFKLTEMVQWAYDNDICEESEIAFEYAQRGDFDSNARAFLNSNMQAKYVKDCAIMCRHYKHAEMKKMSIKQWIKYRGTKVDSVGNWKPIVQFLRHQNIEFIPFLSKLKLWLHGTPKKNCIAIVGPPDTGKSCFCMSLIKFLGGTVISYVNSCSHFWLQPLTDAKVALLDDATQPCWTYMDTYMRNLLDGNPMSIDRKHRALTLIKCPPLLVTSNIDISKEEKYKYLHSRVTTFTFPNPFPFDRNGNAVYELSDANWKCFFERLSSSLDIEDSEDEEDGSNSQAFRCVPGSVVRTL |
| 1472 | sp|O95183|VAMP5\_HUMAN | MAGIELERCQQQANEVTEIMRNNFGKVLERGVKLAELQQRSDQLLDMSSTFNKTTQNLAQKKCWENIRYRICVGLVVVGVLLIILIVLLVVFLPQSSDSSSAPRTQDAGIASGPGN |
| 1473 | sp|P03018|UVRD\_ECOLI | MDVSYLLDSLNDKQREAVAAPRSNLLVLAGAGSGKTRVLVHRIAWLMSVENCSPYSIMAVTFTNKAAAEMRHRIGQLMGTSQGGMWVGTFHGLAHRLLRAHHMDANLPQDFQILDSEDQLRLLKRLIKAMNLDEKQWPPRQAMWYINSQKDEGLRPHHIQSYGNPVEQTWQKVYQAYQEACDRAGLVDFAELLLRAHELWLNKPHILQHYRERFTNILVDEFQDTNNIQYAWIRLLAGDTGKVMIVGDDDQSIYGWRGAQVENIQRFLNDFPGAETIRLEQNYRSTSNILSAANALIENNNGRLGKKLWTDGADGEPISLYCAFNELDEARFVVNRIKTWQDNGGALAECAILYRSNAQSRVLEEALLQASMPYRIYGGMRFFERQEIKDALSYLRLIANRNDDAAFERVVNTPTRGIGDRTLDVVRQTSRDRQLTLWQACRELLQEKALAGRAASALQRFMELIDALAQETADMPLHVQTDRVIKDSGLRTMYEQEKGEKGQTRIENLEELVTATRQFSYNEEDEDLMPLQAFLSHAALEAGEGQADTWQDAVQLMTLHSAKGLEFPQVFIVGMEEGMFPSQMSLDEGGRLEEERRLAYVGVTRAMQKLTLTYAETRRLYGKEVYHRPSRFIGELPEECVEEVRLRATVSRPVSHQRMGTPMVENDSGYKLGQRVRHAKFGEGTIVNMEGSGEHSRLQVAFQGQGIKWLVAAYARLESV |
| 1474 | sp|P40028|YEN1\_YEAST | MGVSQIWEFLKPYLQDSRIPLRKFVIDFNKSQKRAPRIAIDAYGWLFECGFIQNIDISARSRSRSRSPTRSPRDSDIDSSQEYYGSRSYTTTGKAVINFISRLKELLSLNVEFLLVFDGVMKPSFKRKFNHEQNATTCDDEKEYYSSWEQHVKNHEVYGNCKGLLAPSDPEFISLVRKLLDLMNISYVIACGEGEAQCVWLQVSGAVDFILSNDSDTLVFGGEKILKNYSKFYDDFGPSSITSHSPSRHHDSKESFVTVIDLPKINKVAGKKFDRLSLLFFSVLLGADYNRGVKGLGKNKSLQLAQCEDPNFSMEFYDIFKDFNLEDLTSESLRKSRYRLFQKRLYLYCKDHSVELFGRNYPVLLNQGSFEGWPSTVAIMHYFHPIVQPYFDEEVLSDKYINMAGNGHYRNLNFNELKYFLQSLNLPQISSFDKWFHDSMHEMFLLREFLSIDESDNIGKGNMRITEEKIMNIDGGKFQIPCFKIRYTTFLPNIPISSQSPLKRSNSPSRSKSPTRRQMDIMEHPNSLWLPKYLIPQSHPLVIQYYETQQLIQKEKEKKGKKSNKSRLPQKNNLDEFLRKHTSPIKSIGKVGESRKEILEPVRKRLFVDTDEDTSLEEIPAPTRLTTVDEHSDNDDDSLIFVDEITNSQSVLDSSPGKRIRDLTQDEQVDVWKDVIEISPIKKSRTTNAEKNPPESGLKSRSSITINARLQGTKMLPPNLTAPRLEREHSSVLDQLVTDAQDTVDRFVACDSDSSSTIE |
| 1475 | sp|Q9Y6M5|ZNT1\_HUMAN | MGCWGRNRGRLLCMLALTFMFMVLEVVVSRVTSSLAMLSDSFHMLSDVLALVVALVAERFARRTHATQKNTFGWIRAEVMGALVNAIFLTGLCFAILLEAIERFIEPHEMQQPLVVLGVGVAGLLVNVLGLCLFHHHSGFSQDSGHGHSHGGHGHGHGLPKGPRVKSTRPGSSDINVAPGEQGPDQEETNTLVANTSNSNGLKLDPADPENPRSGDTVEVQVNGNLVREPDHMELEEDRAGQLNMRGVFLHVLGDALGSVIVVVNALVFYFSWKGCSEGDFCVNPCFPDPCKAFVEIINSTHASVYEAGPCWVLYLDPTLCVVMVCILLYTTYPLLKESALILLQTVPKQIDIRNLIKELRNVEGVEEVHELHVWQLAGSRIIATAHIKCEDPTSYMEVAKTIKDVFHNHGIHATTIQPEFASVGSKSSVVPCELACRTQCALKQCCGTLPQAPSGKDAEKTPAVSISCLELSNNLEKKPRRTKAENIPAVVIEIKNMPNKQPESSL |
| 1476 | sp|Q60738|ZNT1\_MOUSE | MGCWGRNRGRLLCMLLLTFMFMVLEVVVSRVTASLAMLSDSFHMLSDVLALVVALVAERFARRTHATQKNTFGWIRAEVMGALVNAIFLTGLCFAILLEAVERFIEPHEMQQPLVVLSVGVAGLLVNVLGLCLFHHHSGEGQGAGHGHSHGHGHGHLAKGARKAGRAGVEAGAPPGRAPDQEETNTLVANTSNSNGLKADQAEPEKLRSDDPVDVQVNGNLIQESDNLEAEDNRAGQLNMRGVFLHVLGDALGSVIVVVNALVFYFNWKGCTEDDFCTNPCFPDPCKSSVEIINSTQAPMRDAGPCWVLYLDPTLCIIMVCILLYTTYPLLKESALILLQTVPKQIDIKHLVKELRDVDGVEEVHELHVWQLAGSRIIATAHIKCEDPASYMQVAKTIKDVFHNHGIHATTIQPEFASVGSKSSVLPCELACRTQCALKQCCGTRPQVHSGKDAEKAPTVSISCLELSENLEKKARRTKAEGSLPAVVIEIKNVPNKQPESSL |
| 1477 | sp|O43670|ZN207\_HUMAN | MGRKKKKQLKPWCWYCNRDFDDEKILIQHQKAKHFKCHICHKKLYTGPGLAIHCMQVHKETIDAVPNAIPGRTDIELEIYGMEGIPEKDMDERRRLLEQKTQESQKKKQQDDSDEYDDDDSAASTSFQPQPVQPQQGYIPPMAQPGLPPVPGAPGMPPGIPPLMPGVPPLMPGMPPVMPGMPPGMMPMGGMMPPGPGIPPLMPGMPPGMPPPVPRPGIPPMTQAQAVSAPGILNRPPAPTATVPAPQPPVTKPLFPSAGQMGTPVTSSSTASSNSESLSASSKALFPSTAQAQAAVQGPVGTDFKPLNSTPATTTEPPKPTFPAYTQSTASTTSTTNSTAAKPAASITSKPATLTTTSATSKLIHPDEDISLEERRAQLPKYQRNLPRPGQAPIGNPPVGPIGGMMPPQPGIPQQQGMRPPMPPHGQYGGHHQGMPGYLPGAMPPYGQGPPMVPPYQGGPPRPPMGMRPPVMSQGGRY |
| 1478 | sp|Q14587|ZN268\_HUMAN | MATRVRTASIWVPPLQERNSSWDRIRKLQGQESILGQGTPGLQPLPGTPRQKQKSRRIEKVLEWLFISQEQPKITKSWGPLSFMDVFVDFTWEEWQLLDPAQKCLYRSVMLENYSNLVSLGYQHTKPDIIFKLEQGEELCMVQAQVPNQTCPNTVWKIDDLMDWHQENKDKLGSTAKSFECTTFGKLCLLSTKYLSRQKPHKCGTHGKSLKYIDFTSDYARNNPNGFQVHGKSFFHSKHEQTVIGIKYCESIESGKTVNKKSQLMCQQMYMGEKPFGCSCCEKAFSSKSYLLVHQQTHAEEKPYGCNECGKDFSSKSYLIVHQRIHTGEKLHECSECRKTFSFHSQLVIHQRIHTGENPYECCECGKVFSRKDQLVSHQKTHSGQKPYVCNECGKAFGLKSQLIIHERIHTGEKPYECNECQKAFNTKSNLMVHQRTHTGEKPYVCSDCGKAFTFKSQLIVHQGIHTGVKPYGCIQCGKGFSLKSQLIVHQRSHTGMKPYVCNECGKAFRSKSYLIIHTRTHTGEKLHECNNCGKAFSFKSQLIIHQRIHTGENPYECHECGKAFSRKYQLISHQRTHAGEKPYECTDCGKAFGLKSQLIIHQRTHTGEKPFECSECQKAFNTKSNLIVHQRTHTGEKPYSCNECGKAFTFKSQLIVHKGVHTGVKPYGCSQCAKTFSLKSQLIVHQRSHTGVKPYGCSECGKAFRSKSYLIIHMRTHTGEKPHECRECGKSFSFNSQLIVHQRIHTGENPYECSECGKAFNRKDQLISHQRTHAGEKPYGCSECGKAFSSKSYLIIHMRTHSGEKPYECNECGKAFIWKSLLIVHERTHAGVNPYKCSQCEKSFSGKLRLLVHQRMHTREKPYECSECGKAFIRNSQLIVHQRTHSGEKPYGCNECGKTFSQKSILSAHQRTHTGEKPCKCTECGKAFCWKSQLIMHQRTHVDDKH |
| 1479 | sp|Q2TBX0|ZPR1\_BOVIN | MSAGGAVEPGLPAAAAAPSAAPARDPGPGHLFRPISAEDEEQQPTEIESLCMNCYRNGMTRLLLTKIPFFREIIVSSFSCEHCGWNNTEIQSAGRIQDQGVRYTLTVRAQEDMDREVVKTDSATTRIPELDFEIPAFSQKGALTTVEGLISRAISGLEQDQPTRRANEEAVAERIDEFIAKLKELKQVASPFTLIIDDPSGNSFVENPHAPRKDDALVITHYNRTLQQEEMLGLQAEAPEEKPEEEDIRNEVLQFNTNCPECNAPAQTNMKLVQIPHFKEVIIMATNCENCGHRTNEVKSGGAVEPLGTRITFHITDPSDMTRDLLKSETCSVEIPELEFELGMAVLGGKFTTLEGMLKDIRELVTKNPFTLGDSSSPGQTEKLQEFSQKLDQILEGILKAHFIMDDPAGNSYLQNVYAPEDDPEMKVEHYKRTFDQNEELGLNDMKTEGYETGLPAQR |
| 1480 | sp|Q02977|YRK\_CHICK | MGCVHCKEKISGKGQGGSGTGTPAHPPSQYDPDPTQLSGAFTHIPDFNNFHAAAVSPPVPFSGPGFYPCNTLQAHSSITGGGVTLFIALYDYEARTEDDLSFQKGEKFHIINNTEGDWWEARSLSSGATGYIPSNYVAPVDSIQAEEWYFGKIGRKDAERQLLCHGNCRGTFLIRESETTKGAYSLSIRDWDEAKGDHVKHYKIRKLDSGGYYITTRAQFDTIQQLVQHYIERAAGLCCRLAVPCPKGTPKLADLSVKTKDVWEIPRESLQLLQKLGNGQFGEVWMGTWNGTTKVAVKTLKPGTMSPEAFLEEAQIMKRLRHDKLVQLYAVVSEEPIYIVTEFMSQGSLLDFLKDGDGRYLKLPQLVDMAAQIAAGMAYIERMNYIHRDLRAANILVGDNLVCKIADFGLARLIEDNEYTARQGAKFPIKWTAPEAALFGKFTIKSDVWSFGILLTELVTKGRVPYPGMNNREVLEQVERGYRMQCPGGCPPSLHDVMVQCWKREPEERPTFEYLQSFLEDYFTATEPQYQPGDNQ |
| 1481 | sp|Q8K0L9|ZBT20\_MOUSE | MLERKKPKTAENQKASEENEITQPGGSSAKPALPCLNFEAVLSPAPALIHSTHSLTNSHAHTGSSDCDISCKGMTERIHSINLHNFSNSVLETLNEQRNRGHFCDVTVRIHGSMLRAHRCVLAAGSPFFQDKLLLGYSDIEIPSVVSVQSVQKLIDFMYSGVLRVSQSEALQILTAASILQIKTVIDECTRIVSQNVGDVFPGIQDSGQDTPRGTPESGTSGQSSDTESGYLQSHPQHSVDRIYSALYACSMQNGSGERSFYSGAVVSHHETALGLPRDHHMEDPSWITRIHERSQQMERYLSTTPETTHCRKQPRPVRIQTLVGNIHIKQEMEDDYDYYGQQRVQILERNESEECTEDTDQAEGTESEPKGESFDSGVSSSIGTEPDSVEQQFGAAAPRDGQAEPAQPEQAAEAPAESSAQPNQLEPGASSPERSNESEMDNTVITVSNSSDKGVLQQPSVNTSIGQPLPSTQLYLRQTETLTSNLRMPLTLTSNTQVIGTAGNTYLPALFTTQPAGSGPKPFLFSLPQPLTGQQTQFVTVSQPGLSTFTAQLPAPQPLASSAGHSTASGQGDKKPYECTLCNKTFTAKQNYVKHMFVHTGEKPHQCSICWRSFSLKDYLIKHMVTHTGVRAYQCSICNKRFTQKSSLNVHMRLHRGEKSYECYICKKKFSHKTLLERHVALHSASNGTPPAGTPPGARAGPPGVVACTEGTTYVCSVCPAKFDQIEQFNDHMRMHVSDG |
| 1482 | sp|Q14202|ZMYM3\_HUMAN | MDPSDFPSPFDPLTLPEKPLAGDLPVDMEFGEDLLESQTAPTRGWAPPGPSPSSGALDLLDTPAGLEKDPGVLDGATELLGLGGLLYKAPSPPEVDHGPEGTLAWDAGDQTLEPGPGGQTPEVVPPDPGAGANSCSPEGLLEPLAPDSPITLQSPHIEEEETTSIATARRGSPGQEEELPQGQPQSPNAPPSPSVGETLGDGINSSQTKPGGSSPPAHPSLPGDGLTAKASEKPPERKRSERVRRAEPPKPEVVDSTESIPVSDEDSDAMVDDPNDEDFVPFRPRRSPRMSLRSSVSQRAGRSAVGTKMTCAHCRTPLQKGQTAYQRKGLPQLFCSSSCLTTFSKKPSGKKTCTFCKKEIWNTKDSVVAQTGSGGSFHEFCTSVCLSLYEAQQQRPIPQSGDPADATRCSICQKTGEVLHEVSNGSVVHRLCSDSCFSKFRANKGLKTNCCDQCGAYIYTKTGSPGPELLFHEGQQKRFCNTTCLGAYKKKNTRVYPCVWCKTLCKNFEMLSHVDRNGKTSLFCSLCCTTSYKVKQAGLTGPPRPCSFCRRSLSDPCYYNKVDRTVYQFCSPSCWTKFQRTSPEGGIHLSCHYCHSLFSGKPEVLDWQDQVFQFCCRDCCEDFKRLRGVVSQCEHCRQEKLLHEKLRFSGVEKSFCSEGCVLLYKQDFTKKLGLCCITCTYCSQTCQRGVTEQLDGSTWDFCSEDCKSKYLLWYCKAARCHACKRQGKLLETIHWRGQIRHFCNQQCLLRFYSQQNQPNLDTQSGPESLLNSQSPESKPQTPSQTKVENSNTVRTPEENGNLGKIPVKTRSAPTAPTPPPPPPPATPRKNKAAMCKPLMQNRGVSCKVEMKSKGSQTEEWKPQVIVLPIPVPIFVPVPMHLYCQKVPVPFSMPIPVPVPMFLPTTLESTDKIVETIEELKVKIPSNPLEADILAMAEMIAEAEELDKASSDLCDLVSNQSAEGLLEDCDLFGPARDDVLAMAVKMANVLDEPGQDLEADFPKNPLDINPSVDFLFDCGLVGPEDVSTEQDLPRTMRKGQKRLVLSESCSRDSMSSQPSCTGLNYSYGVNAWKCWVQSKYANGETSKGDELRFGPKPMRIKEDILACSAAELNYGLAQFVREITRPNGERYEPDSIYYLCLGIQQYLLENNRMVNIFTDLYYLTFVQELNKSLSTWQPTLLPNNTVFSRVEEEHLWECKQLGVYSPFVLLNTLMFFNTKFFGLQTAEEHMQLSFTNVVRQSRKCTTPRGTTKVVSIRYYAPVRQRKGRDTGPGKRKREDEAPILEQRENRMNPLRCPVKFYEFYLSKCPESLRTRNDVFYLQPERSCIAESPLWYSVIPMDRSMLESMLNRILAVREIYEELGRPGEEDLD |
| 1483 | sp|Q61329|ZFHX3\_MOUSE | MEGCDSPVVSGKDNGCGIPQHRQWTELNSAHLPDKPSSMEQPTGESHGPLDSLRAPFNERLADSSTSAGPPAEPASKEVSCNECSASFSSLQTYMEHHCPGTHPPPALREESASDTSEEGEEESDVENLAGEIVYQPDGSAYIVESLSQLAQSGAACGSSSGSGAVPSLFLNSLPGVGGKQGDPSCAAPVYPQIINTSHIASSFGKWFEGSDPAFPNTSALAGLSPVLHSFRVFDVRHKSNKDYLNSDGSAKSSCVSKDVPNNVDLSKFDGFVLYGKRKPILMCFLCKLSFGYVRSFVTHAVHDHRMTLSEEERKLLSNKNISAIIQGIGKDKEPLVSFLEPKNKNFQHPLVSTGNLIGPGHSFYGKFSGIRMEGEEALPAVAAAGPEQPQAGLLTPSTLLNLGGLTSSVLKTPITSVPLGPLASSPTKSSEGKDSGAAEGDKQESGGHQDCFSEKVEPAEEEEAEEEEEEEEEAEEEEEEEEEEEEEEEEASKGLFPNDLEEELEDSPSEESGPPAGGTTKKDLALSNPSISNSPLMPNVLQTLSRGPASTTSNSASNFVVFDGANRRSRLSFNSEGVRANVAEGRRLDFADESANKDSATAPEPNESTEGDDGGFVPHHQHAGSLCELGVGESPSGSGVECPKCDTVLGSSRSLGGHMTMMHSRNSCKTLKCPKCNWHYKYQQTLEAHMKEKHPEPGGSCVYCKSGQPHPRLARGESYTCGYKPFRCEVCNYSTTTKGNLSIHMQSDKHLNNMQNLQNGGGEQVFSHSAGAAAAAAAAAAAAANIGSSWGAPSPTKPKTKPTWRCEVCDYETNVARNLRIHMTSEKHMHNMMLLQQNMTQIQHNRHLGLGSLPSPAEAELYQYYLAQNMNLPNLKMDSTASDAQFMMSGFQLDPTGPMAAMTPALVGGEIPLDMRLGGGQLVSEELMNLGESFIQTNDPSLKLFQCAVCNKFTTDNLDMLGLHMNVERSLSEDEWKAVMGDSYQCKLCRYNTQLKANFQLHCKTDKHVQKYQLVAHIKEGGKANEWRLKCVAIGNPVHLKCNACDYYTNSLEKLRLHTVNSRHEASLKLYKHLQQHESGVEGESCYYHCVLCNYSTKAKLNLIQHVRSMKHQRSESLRKLQRLQKGLPEEDEDLGQIFTIRRCPSTDPEEPVEDAEGPSEASADPEELAKDQGSGSEEGQSKRAASSSQAEKELTDSPATTKRTSFPGSSETPLSSKRPKASEEIKPEQMYQCPYCKYSNADVNRLRVHAMTQHSVQPLLRCPLCQDMLNNKIHLQLHLTHLHSVAPDCVEKLIMTVTAPEMVMPSSMFLPAAAADRDGNSTLEEVGKQPEASEDPGKNILPPASMEHGGDLKPTSADPSCGREDSGFLCWKKGCNQVFKTSATLQTHFNEVHAKRPQLPVSDRHVYKYRCNQCSLAFKTIEKLQLHSQYHVIRAATMCCLCQRSFRTFQALKKHLETSHLELSEADIQQLYGGLLANGDLLAMGDPTLAEDHTIIVEEDKEEESDLEDKQSPTGSDSGSVQEDSGSEPKRALPFRKGPNFTMEKFLDPSRPYKCTVCKESFTQKNILLVHYNSVSHLHKLKRALQESATGQPEPTSSPDNKPFKCNTCNVAYSQSSTLEIHMRSVLHQTKARAAKLEAASGNSNGTGNSGGVSLSSSTPSPVGSSGANNTFTATNPSSAAMAPSVNALSQVPPESVVMPPLGNPISANIASPSEPKEANRKKLADMIASRQQQQQQQQQQQQQAQTLAQAQAQVQAHLQQELQQQAALIQSQLFNPTLLPHFPMTTETLLQLQQQQHLLFPFYIPSAEFQLNPEVSLPVTSGALTLTGSGPGLLEDLKVQVQIPQQSHQQILQQQQQQSQLSLSQSHSALLQPSQHPEKKNKVVIKEKDKESQREREGPEGAEGNTGPQESLPDASKAKEKKDLAPGGGSEGTMLPPRIASDARGNATKALLENFGFELVIQYNENKQKAQKKNGKAEQGGESLEKLECDSCGKLFSNILILKSHQEHVHQNYFPFKQLERFAKQYREHYDKLYPLRPQTPEPPPPPPPPPPPPLPTAPPQPASAPAIPASAPPITSPTIAPAQPSVPLTQLSMPMELPIFSPLMMQTMPLQTLPAQLPPQLGPVEPLPADLAQLYQHQLNPTLLQQQNKRPRTRITDDQLRVLRQYFDINNSPSEEQIKEMADKSGLPQKVIKHWFRNTLFKERQRNKDSPYNFSNPPITSLEELKIDSRPPSPEPQKQEYWGSKRSSRTRFTDYQLRVLQDFFDANAYPKDDEFEQLSNLLNLPTRVIVVWFQNARQKARKNYENQGEGKDGERRELTNDRYIRTSNLNYQCKKCSLVFQRIFDLIKHQKKLCYKDEDEEGQDDSQNEDSMDAMEILTPTSSSCSTPMPSQAYSTPAPSAAAANTAPSAFLQLTAETDELATFNSKAEASDEKPKQADPPSAQPNQTQEKQGQPKPEMQQQLEQLEQKTNAPQPKLPQPAAPSLPQPPPQAPPPQCPLPQSSPSPSQLSHLPLKPLHTSTPQQLANLPPQLIPYQCDQCKLAFPSFEHWQEHQQLHFLSAQNQFIHPQFLDRSLDMPFMLFDPSNPLLASQLLSGAIPQIPASSATSPSTPTSTMNTLKRKLEEKASASPGENDSGTGGEEPQRDKRLRTTITPEQLEILYQKYLLDSNPTRKMLDHIAHEVGLKKRVVQVWFQNTRARERKGQFRAVGPAQAHRRCPFCRALFKAKTALEAHIRSRHWHEAKRAGYNLTLSAMLLDCDGGLQMKGDIFDGTSFSHLPPSSSDGQGVPLSPVSKTMELSPRTLLSPSSIKVEGIEDFESPSMSSVNLNFDQTKLDNDDCSSVNTAITDTTTGDEGNADNDSATGIATETKSSAPNEGLTKAAMMAMSEYEDRLSSGLVSPAPSFYSKEYDNEGTVDYSETSSLADPCSPSPGASGSAGKSGDGGDRPGQKRFRTQMTNLQLKVLKSCFNDYRTPTMLECEVLGNDIGLPKRVVQVWFQNARAKEKKSKLSMAKHFGINQTSYEGPKTECTLCGIKYSARLSVRDHIFSQQHISKVKDTIGSQLDKEKEYFDPATVRQLMAQQELDRIKKANEVLGLAAQQQGMFDNAPLQALNLPTTYPALQGIPPVLLPGLNRPSLPGFTPANTALTSPKPNLMGLPSTTVPSPGLPTSGLPNKPSSASLSSPTPAQATMAMAPQPPPQPQQPQPPVQQPPPPPAAQQIPAPQLTPQQQRKDKDGEKGKEKEKAHKGKGEPLPVPKKEKGEAPPAGTGTISAPLPAMEYAVDPAQLQALQAALTSDPTALLTSQFLPYFVPGFSPYYAPQIPGALQSGYLQPMYGMEGLFPYSPALSRPLMGLSPGSLLQQYQQYQQSLQEAIQQQQQQQQQQQQQQQQQQRQLQQQQQQQQQKVQQQQQQQQQPKASQTPVPQGAASPDKDPAKESPKPEEQKNVPRELSPLLPKPPEEPEAESKSASADSLCDPFIVPKVQYKLVCRKCQAGFGDEEAARSHLKSLCCFGQSVVNLQEMVLHVPTGSGGGGGGGGGSGGGGGSYHCLACESALCGEEALSQHLESALHKHRTITRAARNAKEHPSLLPHSACFPDPSTASTSQSAAHSNDSPPPPSAAPSSSASPHASRKSWPPVGSRASAAKPPSFPPLSSSSTVTSSSCSTSGVQPSMPTDDYSEESDTDLSQKSDGPASPVEGPKDPSCPKDSGLTSVGTDTFRL |
| 1484 | sp|Q9UIJ5|ZDHC2\_HUMAN | MAPSGPGSSARRRCRRVLYWIPVVFITLLLGWSYYAYAIQLCIVSMENTGEQVVCLMAYHLLFAMFVWSYWKTIFTLPMNPSKEFHLSYAEKDLLEREPRGEAHQEVLRRAAKDLPIYTRTMSGAIRYCDRCQLIKPDRCHHCSVCDKCILKMDHHCPWVNNCVGFSNYKFFLLFLAYSLLYCLFIAATDLQYFIKFWTNGLPDTQAKFHIMFLFFAAAMFSVSLSSLFGYHCWLVSKNKSTLEAFRSPVFRHGTDKNGFSLGFSKNMRQVFGDEKKYWLLPIFSSLGDGCSFPTCLVNQDPEQASTPAGLNSTAKNLENHQFPAKPLRESQSHLLTDSQSWTESSINPGKCKAGMSNPALTMENET |
| 1485 | sp|Q05516|ZBT16\_HUMAN | MDLTKMGMIQLQNPSHPTGLLCKANQMRLAGTLCDVVIMVDSQEFHAHRTVLACTSKMFEILFHRNSQHYTLDFLSPKTFQQILEYAYTATLQAKAEDLDDLLYAAEILEIEYLEEQCLKMLETIQASDDNDTEATMADGGAEEEEDRKARYLKNIFISKHSSEESGYASVAGQSLPGPMVDQSPSVSTSFGLSAMSPTKAAVDSLMTIGQSLLQGTLQPPAGPEEPTLAGGGRHPGVAEVKTEMMQVDEVPSQDSPGAAESSISGGMGDKVEERGKEGPGTPTRSSVITSARELHYGREESAEQVPPPAEAGQAPTGRPEHPAPPPEKHLGIYSVLPNHKADAVLSMPSSVTSGLHVQPALAVSMDFSTYGGLLPQGFIQRELFSKLGELAVGMKSESRTIGEQCSVCGVELPDNEAVEQHRKLHSGMKTYGCELCGKRFLDSLRLRMHLLAHSAGAKAFVCDQCGAQFSKEDALETHRQTHTGTDMAVFCLLCGKRFQAQSALQQHMEVHAGVRSYICSECNRTFPSHTALKRHLRSHTGDHPYECEFCGSCFRDESTLKSHKRIHTGEKPYECNGCGKKFSLKHQLETHYRVHTGEKPFECKLCHQRSRDYSAMIKHLRTHNGASPYQCTICTEYCPSLSSMQKHMKGHKPEEIPPDWRIEKTYLYLCYV |
| 1486 | sp|Q9EPR5|SORC2\_MOUSE | MAHRGPPSAPKRPGPTAPDRSFQALLPPCWPRSWPLLLLLLVLVAACGAMGRSPQPGRQGPGVQITRLLPAGRTESGDRKDPQARESEPSVPGLGPGSASGPSTDGAPAPGKGRRARAVPVAGAASASRAQVSLISTSFVLKGDATHNQAMVHWTGENSSVILILTKYYHADMGKVLESSLWRSSDFGTTYTKLTLQPGVTTVIDNFYICPANKRKIILVSSSLGDREQSLFLSTDEGATFQKYPVPFLVEMLLFHPKEEDKVLAYTKDSKLYVSSDLGKKWTLLQERVTKDHVFWAVSGVDDDPNLVHVEAQDLSGGYRYYTCLIYNCSAQPHIAPFSGPIDRGSLTVQDEYIFLKATSTNRTKYYVSYRRSDFVLMKLPKYALPKDLQIISTDEQQVFVAVQEWNQVDTYNLYQSDLRGVRYSLVLENVRSSRQAEENVVIDILEVRGVKGVFLANQKVDGKVTTVITYNKGRDWDYLRPPSTDMNGKPTNCQPPDCYLHLHLRWADNPYVSGTVHTKDTAPGLIMGAGNLGSQLVEYKEEMYITSDCGHTWRQVFEEEHHVLYLDHGGVIAAIKDTSIPLKILKFSVDEGHTWSTHNFTSTSVFVDGLLSEPGDETLVMTVFGHISFRSDWELVKVDFRPSFPRQCGEDDYSSWDLTDLQGDHCIMGQQRSYRKRKSTSWCVKGRSFTSALTSRVCKCRDSDFLCDYGFERSSSSESTANKCSANFWFNPLSPPEDCVLGQTYTSSLGYRKVVSNVCEGGVDLQQSPVQLQCPLQAPRGLQVSIRGEAVAVRPREDVLFVVRQEQGDVLTTKYQVDLGDGFKAMYVNLTLTGEPIRHHYESPGIYRVSVRAENMAGHDEAVLFVQVNSPLQALYLEVVPVIGVNQEVNLTAVLLPLNPNLTVFYWWIGHSLQPLLSLDNSVTTKFTDAGDVRVTVQAACGNSVLQDSRLVRVLDQFQVVPLRFSRELDTFNPNTPEWREDVGLVVTRLLSKETSIPEELLVTVVKPGLPTIADLYVLLPLPRPTRKRSLTSDKRLAAVQQALNSHRISFILRGGLRILVELRDTDTGPQRPGGSGGYWAVVVLFVIGLFAVGAFILYKFKRKRPGRTVYAQMHNEKEQEMTSPVSHSEDAQSTMQGNHSGVVLSINSREMHSYLVG |
| 1487 | sp|Q5SK28|SPEE\_THET8 | MDYGMYFFEHVTPYETLVRRMERVIASGKTPFQDYFLFESKGFGKVLILDKDVQSTERDEYIYHETLVHPAMLTHPEPKRVLIVGGGEGATLREVLKHPTVEKAVMVDIDGELVEVAKRHMPEWHQGAFDDPRAVLVIDDARAYLERTEERYDVVIIDLTDPVGEDNPARLLYTVEFYRLVKAHLNPGGVMGMQAGMILLTHHRVHPVVHRTVREAFRYVRSYKNHIPGFFLNFGFLLASDAFDPAAFSEGVIEARIRERNLALRHLTAPYLEAMFVLPKDLLEALEKETMVSTDQNPFYVTPEGEARQAPYKG |
| 1488 | sp|Q05519|SRS11\_HUMAN | MSNTTVVPSTAGPGPSGGPGGGGGGGGGGGGTEVIQVTNVSPSASSEQMRTLFGFLGKIDELRLFPPDDSPLPVSSRVCFVKFHDPDSAVVAQHLTNTVFVDRALIVVPYAEGVIPDEAKALSLLAPANAVAGLLPGGGLLPTPNPLTQIGAVPLAALGAPTLDPALAALGLPGANLNSQSLAADQLLKLMSTVDPKLNHVAAGLVSPSLKSDTSSKEIEEAMKRVREAQSLISAAIEPDKKEEKRRHSRSRSRSRRRRTPSSSRHRRSRSRSRRRSHSKSRSRRRSKSPRRRRSHSRERGRRSRSTSKTRDKKKEDKEKKRSKTPPKSYSTARRSRSASRERRRRRSRSGTRSPKKPRSPKRKLSRSPSPRRHKKEKKKDKDKERSRDERERSTSKKKKSKDKEKDRERKSESDKDVKQVTRDYDEEEQGYDSEKEKKEEKKPIETGSPKTKECSVEKGTGDSLRESKVNGDDHHEEDMDMSD |
| 1489 | sp|Q96PX8|SLIK1\_HUMAN | MLLWILLLETSLCFAAGNVTGDVCKEKICSCNEIEGDLHVDCEKKGFTSLQRFTAPTSQFYHLFLHGNSLTRLFPNEFANFYNAVSLHMENNGLHEIVPGAFLGLQLVKRLHINNNKIKSFRKQTFLGLDDLEYLQADFNLLRDIDPGAFQDLNKLEVLILNDNLISTLPANVFQYVPITHLDLRGNRLKTLPYEEVLEQIPGIAEILLEDNPWDCTCDLLSLKEWLENIPKNALIGRVVCEAPTRLQGKDLNETTEQDLCPLKNRVDSSLPAPPAQEETFAPGPLPTPFKTNGQEDHATPGSAPNGGTKIPGNWQIKIRPTAAIATGSSRNKPLANSLPCPGGCSCDHIPGSGLKMNCNNRNVSSLADLKPKLSNVQELFLRDNKIHSIRKSHFVDYKNLILLDLGNNNIATVENNTFKNLLDLRWLYMDSNYLDTLSREKFAGLQNLEYLNVEYNAIQLILPGTFNAMPKLRILILNNNLLRSLPVDVFAGVSLSKLSLHNNYFMYLPVAGVLDQLTSIIQIDLHGNPWECSCTIVPFKQWAERLGSEVLMSDLKCETPVNFFRKDFMLLSNDEICPQLYARISPTLTSHSKNSTGLAETGTHSNSYLDTSRVSISVLVPGLLLVFVTSAFTVVGMLVFILRNRKRSKRRDANSSASEINSLQTVCDSSYWHNGPYNADGAHRVYDCGSHSLSD |
| 1490 | sp|Q92966|SNPC3\_HUMAN | MAEGSRGGPTCSGVGGRQDPVSGSGGCNFPEYELPELNTRAFHVGAFGELWRGRLRGAGDLSLREPPASALPGSQAADSDREDAAVARDLDCSLEAAAELRAVCGLDKLKCLEDGEDPEVIPENTDLVTLGVRKRFLEHREETITIDRACRQETFVYEMESHAIGKKPENSADMIEEGELILSVNILYPVIFHKHKEHKPYQTMLVLGSQKLTQLRDSIRCVSDLQIGGEFSNTPDQAPEHISKDLYKSAFFYFEGTFYNDKRYPECRDLSRTIIEWSESHDRGYGKFQTARMEDFTFNDLCIKLGFPYLYCHQGDCEHVIVITDIRLVHHDDCLDRTLYPLLIKKHWLWTRKCFVCKMYTARWVTNNDSFAPEDPCFFCDVCFRMLHYDSEGNKLGEFLAYPYVDPGTFN |
| 1491 | sp|A7LCJ3|SN\_PIG | MDFLLLLLLLASSALAGLASWTVSRPETVQGIKGSCLIIPCTFGFPANVEVPHGITAIWYYDYSGKRLVVSHSRNPKVVENHFQGRALLLGQAEQRTCSLLLKDLQPQDSGSYNFRFEISEGNRWSDVKGTVVTVTEVPSVPTIALPAKLHEGMEVDFNCSTPYVCPTEPVNLQWQGQDPTRSVTSHLQKLEPSGTSHMETLHMALSWQDHGRILSCQVSAAERRMQKEIHLQVQHAPKGVEILFSHSGRNVLPGDLVTLSCQVNSSNPQVSSVQWVKDGTKLKDQKRVLQLRRAAWADAGVYTCQAGNAVGSSVSPPVSLHVFMAEVQVSPVGSILENQTVTLACNTPKEAPSELRYSWCKNHALLEGSHSRTLRLHSVTRADSGFYFCEVQNARGRERSPPVSVVVSHPPLTPDLTAFPETQAGLVGILQCSVVSEPPATLVLSHGGLISASTSGEGDHSPRFSVASAPNSLRLEIQDLGPTDSGEYMCSASSSLGNASSTLDFHANAARLLISPAAEVVEGQAVTLSCRSSLSLMPDTRFSWYLNGALILEGPSSSLLLPAASSTDAGSYHCRAQNSHSTSGPSPPAVLTVLRAPRQPVFTAQLDPDTAGAGAGRQGLLLCRVDSDPPAQLQLLHRGRVVASSLSWGGGCCTCGGCFQRMKVTKAPNLLRVEIRDPALEDEGVYLCEASSALGNASASATLDAQATVLVITPSHTLQEGIEANLTCNVSREASGPANFSWFRDGALWAQGPLDTVTLLPVSRTDAALYACRIVTEAGAGLSTPVALNVLYPPDPPKLSALLDVDQGHTAVFVCTVDSHPLAQLALFRGEHLLAASSALRLPPRGRLQAKASANSLQLEVRDLSLGDSGSYHCEATNILGSANTSLTFQVRGAWVRVSPSPELQEGQAVVLSCQVPIGVLEGTSYRWYRDGQPLQESTSATLRFAAITLSQAGAYHCQAQASGSATTDLAAPVSLHVTYAPRQATLTTLMDSGLGRLGLLLCRVNSDPPAQLRLLHGSRLVASTLQGVEELAGSSPRLQVATAPNTLRLEIHNAVLEDEGVYTCEATNTLGQTLASAALDAQAMRVQVWPNATVQEGQLVNLTRLVWTTHLAQLTYTWYRDQQQLPGAAHSILLPNVTVTDAASYRCGILIPGQALRLSRPVALDVLYAPRRLRLTHLLESRGGQLAVVLCTVDSRPAAQLTLSHAGRLLASSTAASVPNTLRLELWEPRPSDEGLYSCSARSPLGQANTSLELRLEGVQVALAPSATVPEGAPVTVTCEDPAARPPTLYVWYHNSRWLQEGSAASLSFPAATRAHAGAYTCQVQDAQGTRISQPAALHILYAPRDAVLSSFWDSRASPMAVVQCTVDSEPPAEMTLSHDGKVLATSQGVHGLAVGTGHVQVARNALQLRVQNVPSRDKDTYVCMDRNSLGSVSTMGQLQPEGVHVVAEPGLDVPEGTALNLSCRLPSGPGHIGNSTFAWFRNGRQLHTESVPTFTFTHVARAQAGLYHCQAELPAGAATSAPVLLRVLYPPKTPTMTVFVEPEGGIQGILDCRVDSEPLASLTLHLGSRLVASSQPQAAPAKPHIRVSASPNALRVDMEELKPSDQGEYVCSASNALGSASAATYFGTRALHRLHLFQHLLWFLGLLASLLFLLLGLGVWYAWRRGNFHKLRMGEYSVEMVSRKETTQMSTDQEEVTGIGDDAGSVNQAAFDPAHLCENTQSVKSTV |
| 1492 | sp|O75494|SRS10\_HUMAN | MSRYLRPPNTSLFVRNVADDTRSEDLRREFGRYGPIVDVYVPLDFYTRRPRGFAYVQFEDVRDAEDALHNLDRKWICGRQIEIQFAQGDRKTPNQMKAKEGRNVYSSSRYDDYDRYRRSRSRSYERRRSRSRSFDYNYRRSYSPRNSRPTGRPRRSRSHSDNDRFKHRNRSFSRSKSNSRSRSKSQPKKEMKAKSRSRSASHTKTRGTSKTDSKTHYKSGSRYEKESRKKEPPRSKSQSRSQSRSRSKSRSRSWTSPKSSGH |
| 1493 | sp|Q03563|SPK1\_CAEEL | MFVVLFCRWLNGFSQHRERLYKFEDEAVQRRRRFRVHSEESEELNDHESYSETDICTQLLASSADVTCHINVDLVNQNRFYFFVKQRNKKENSTNEEEEISSQEINTSTQNEETEVNLVFASAEDNGGVASNFDISDALMVTSNISEVSKLPETLCEEGETVQQKSVVNENDHSNEDDEQSLQSQDGSRCSDEDMNSCVSASDEEDVESQDDSFHVNDATEESIDSVSSIESQEAEESATEDLASCHSNDDKNEKDVLVDEDTSKYDNLPVEMRSAKEGEESEGTIDSSVSSSTSSSSTGDDGDDSATSYDSEDIEIQMFEYDLGTACASASISIPRPSIIPRNNKKTEVNANEERLDDLSVSPGRSDSPGGGGGGHSDSFQDPMDPGEQLGSDDEEQEDPRDYKRGGYHPVNIGDVFNARYHVIRKLGWGHFSTVWLAWDTQDKRFVAMKIVKSAEHYTEAALDEIKLLLSVRSADPNDIGCHKVVQLLDEFTVTGINGQHVAMVFEVLGCNLLKLIIRSNYRGLHLEQVRKICRQVLEALGYMHEKCGIIHTDIKPENVLITMSREEIKIMAQHAVVARKMNMKMSGSAVSTAPDHLVKMAQENMTKNKKKKMKKKAKKQREKLEAELAGLEGLKMDANGLQEAYNNAPELENFNASQVEDVTMEDTVNENGNRNKVEIRSPDRFDRTTLTPFSDPESKFGDLASPSAEYLSSPMSQLPPGGILPAPPVGPNIGDPYCDIDVKIADLGNACWVNHHYTDDIQTRQYRALEVLIGSGYGPPADIWSTACMAFELATGDYLFEPHQGDNYSRDEDHLAHISELLGAIPPSIYKKGKHWREFFHKNGHLLHIHQLKPWSLYEVLRQKYEWSHEDAQQFESFLRPMLDFDQEKRSTAKIALKHPFLLPFGGRAPKSDCPPELLSKMFPDGLIPEPFDGNEHQEVYRDENDSRSASERSANSRSAGGSDDDDEEEFNMNRPGPSGVITNNETTDISDIERFQLDLQ |
| 1494 | sp|Q9UIB8|SLAF5\_HUMAN | MAQHHLWILLLCLQTWPEAAGKDSEIFTVNGILGESVTFPVNIQEPRQVKIIAWTSKTSVAYVTPGDSETAPVVTVTHRNYYERIHALGPNYNLVISDLRMEDAGDYKADINTQADPYTTTKRYNLQIYRRLGKPKITQSLMASVNSTCNVTLTCSVEKEEKNVTYNWSPLGEEGNVLQIFQTPEDQELTYTCTAQNPVSNNSDSISARQLCADIAMGFRTHHTGLLSVLAMFFLLVLILSSVFLFRLFKRRQGRIFPEGSCLNTFTKNPYAASKKTIYTYIMASRNTQPAESRIYDEILQSKVLPSKEEPVNTVYSEVQFADKMGKASTQDSKPPGTSSYEIVI |
| 1495 | sp|Q9NRC6|SPTN5\_HUMAN | MAGQPHSPRELLGAAGHRSRRPSTELRVPPSPSLTMDSQYETGHIRKLQARHMQMQEKTFTKWINNVFQCGQAGIKIRNLYTELADGIHLLRLLELISGEALPPPSRGRLRVHFLENSSRALAFLRAKVPVPLIGPENIVDGDQTLILGLIWVIILRFQISHISLDKEEFGASAALLSTKEALLVWCQRKTASYTNVNITDFSRSWSDGLGFNALIHAHRPDLLDYGSLRPDRPLHNLAFAFLVAEQELGIAQLLDPEDVAAAQPDERSIMTYVSLYYHYCSRLHQGQTVQRRLTKILLQLQETELLQTQYEQLVADLLRWIAEKQMQLEARDFPDSLPAMRQLLAAFTIFRTQEKPPRLQQRGAAEALLFRLQTALQAQNRRPFLPHEGLGLAELSQCWAGLEWAEAARSQALQQRLLQLQRLETLARRFQHKAALRESFLKDAEQVLDQARAPPASLATVEAAVQRLGMLEAGILPQEGRFQALAEIADILRQEQYHSWADVARRQEEVTVRWQRLLQHLQGQRKQVADMQAVLSLLQEVEAASHQLEELQEPARSTACGQQLAEVVELLQRHDLLEAQVSAHGAHVSHLAQQTAELDSSLGTSVEVLQAKARTLAQLQQSLVALVRARRALLEQTLQRAEFLRNCEEEEAWLKECGQRVGNAALGRDLSQIAGALQKHKALEAEVHRHQAVCVDLVRRGRDLSARRPPTQPDPGERAEAVQGGWQLLQTRVVGRGARLQTALLVLQYFADAAEAASWLRERRSSLERASCGQDQAAAETLLRRHVRLERVLRAFAAELRRLEEQGRAASARASLFTVNSALSPPGESLRNPGPWSEASCHPGPGDAWKMALPAEPDPDFDPNTILQTQDHLSQDYESLRALAQLRRARLEEAMALFGFCSSCGELQLWLEKQTVLLQRVQPQADTLEVMQLKYENFLTALAVGKGLWAEVSSSAEQLRQRYPGNSTQIQRQQEELSQRWGQLEALKREKAVQLAHSVEVCSFLQECGPTQVQLRDVLLQLEALQPGSSEDTCHALQLAQKKTLVLERRVHFLQSVVVKVEEPGYAESQPLQGQVETLQGLLKQVQEQVAQRARRQAETQARQSFLQESQQLLLWAESVQAQLRSKEVSVDVASAQRLLREHQDLLEEIHLWQERLQQLDAQSQPMAALDCPDSQEVPNTLRVLGQQGQELKVLWEQRQQWLQEGLELQKFGREVDGFTATCANHQAWLHLDNLGEDVREALSLLQQHREFGRLLSTLGPRAEALRAHGEKLVQSQHPAAHTVREQLQSIQAQWTRLQGRSEQRRRQLLASLQLQEWKQDVAELMQWMEEKGLMAAHEPSGARRNILQTLKRHEAAESELLATRRHVEALQQVGRELLSRRPCGQEDIQTRLQGLRSKWEALNRKMTERGDELQQAGQQEQLLRQLQDAKEQLEQLEGALQSSETGQDLRSSQRLQKRHQQLESESRTLAAKMAALASMAHGMAASPAILEETQKHLRRLELLQGHLAIRGLQLQASVELHQFCHLSNMELSWVAEHMPHGSPTSYTECLNGAQSLHRKHKELQVEVKAHQGQVQRVLSSGRSLAASGHPQAQHIVEQCQELEGHWAELERACEARAQCLQQAVTFQQYFLDVSELEGWVEEKRPLVSSRDYGRDEAATLRLINKHQALQEELAIYWSSMEELDQTAQTLTGPEVPEQQRVVQERLREQLRALQELAATRDRELEGTLRLHEFLREAEDLQGWLASQKQAAKGGESLGEDPEHALHLCTKFAKFQHQVEMGSQRVAACRLLAESLLERGHSAGPMVRQRQQDLQTAWSELWELTQARGHALRDTETTLRVHRDLLEVLTQVQEKATSLPNNVARDLCGLEAQLRSHQGLERELVGTERQLQELLETAGRVQKLCPGPQAHAVQQRQQAVTQAWAVLQRRMEQRRAQLERARLLARFRTAVRDYASWAARVRQDLQVEESSQEPSSGPLKLSAHQWLRAELEAREKLWQQATQLGQQALLAAGTPTKEVQEELRALQDQRDQVYQTWARKQERLQAEQQEQLFLRECGRLEEILAAQEVSLKTSALGSSVEEVEQLIRKHEVFLKVLTAQDKKEAALRERLKTLRRPRVRDRLPILLQRRMRVKELAESRGHALHASLLMASFTQAATQAEDWIQAWAQQLKEPVPPGDLRDKLKPLLKHQAFEAEVQAHEEVMTSVAKKGEALLAQSHPRAGEVSQRLQGLRKHWEDLRQAMALRGQELEDRRNFLEFLQRVDLAEAWIQEKEVKMNVGDLGQDLEHCLQLRRRLREFRGNSAGDTVGDACIRSISDLSLQLKNRDPEEVKIICQRRSQLNNRWASFHGNLLRYQQQLEGALEIHVLSRELDNVTKRIQEKEALIQALDCGKDLESVQRLLRKHEELEREVHPIQAQVESLEREVGRLCQRSPEAAHGLRHRQQEVAESWWQLRSRAQKRREALDALHQAQKLQAMLQELLVSAQRLRAQMDTSPAPRSPVEARRMLEEHQECKAELDSWTDSISLARSTGQQLLTAGHPFSSDIRQVLAGLEQELSSLEGAWQEHQLQLQQALELQLFLSSVEKMERWLCSKEDSLASEGLWDPLAPMEPLLWKHKMLEWDLEVQAGKISALEATARGLHQGGHPEAQSALGRCQAMLLRKEALFRQAGTRRHRLEELRQLQAFLQDSQEVAAWLREKNLVALEEGLLDTAMLPAQLQKQQNFQAELDASMHQQQELQREGQRLLQGGHPASEAIQERLEELGALWGELQDNSQKKVAKLQKACEALRLRRSMEELENWLEPIEVELRAPTVGQALPGVGELLGTQRELEAAVDKKARQAEALLGQAQAFVREGHCLAQDVEEQARRLLQRFKSLREPLQERRTALEARSLLLKFFRDADEEMAWVQEKLPLAAAQDYGQSLSAVRHLQEQHQNLESEMSSHEALTRVVLGTGYKLVQAGHFAAHEVAARVQQLEKAMAHLRAEAARRRLLLQQAQEAQQFLTELLEAGSWLAERGHVLDSEDMGHSAEATQALLRRLEATKRDLEAFSPRIERLQQTAALLESRKNPESPKVLAQLQAVREAHAELLRRAEARGHGLQEQLQLHQLERETLLLDAWLTTKAATAESQDYGQDLEGVKVLEEKFDAFRKEVQSLGQAKVYALRKLAGTLERGAPRRYPHIQAQRSRIEAAWERLDQAIKARTENLAAAHEVHSFQQAAAELQGRMQEKTALMKGEDGGHSLSSVRTLQQQHRRLERELEAMEKEVARLQTEACRLGQLHPAAPGGLAKVQEAWATLQAKAQERGQWLAQAAQGHAFLGRCQELLAWAQERQELASSEELAEDVAGAEQLLGQHEELGQEIRECRLQAQDLRQEGQQLVDNSHFMSAEVTECLQELEGRLQELEEAWALRWQRCAESWGLQKLRQRLEQAEAWLACWEGLLLKPDYGHSVSDVELLLHRHQDLEKLLAAQEEKFAQMQKTEMEQELLLQPQELKPGRAGSSLTSFQWRPSGHQGLGAQLAETRDPQDAKGTPTMEGSLEFKQHLLPGGRQPSSSSWDSCRGNLQGSSLSLFLDERMAAEKVASIALLDLTGARCERLRGRHGRKHTFSLRLTSGAEILFAAPSEEQAESWWRALGSTAAQSLSPKLKAKPVSSLNECTTKDARPGCLLRSDP |
| 1496 | sp|P46977|STT3A\_HUMAN | MTKFGFLRLSYEKQDTLLKLLILSMAAVLSFSTRLFAVLRFESVIHEFDPYFNYRTTRFLAEEGFYKFHNWFDDRAWYPLGRIIGGTIYPGLMITSAAIYHVLHFFHITIDIRNVCVFLAPLFSSFTTIVTYHLTKELKDAGAGLLAAAMIAVVPGYISRSVAGSYDNEGIAIFCMLLTYYMWIKAVKTGSICWAAKCALAYFYMVSSWGGYVFLINLIPLHVLVLMLTGRFSHRIYVAYCTVYCLGTILSMQISFVGFQPVLSSEHMAAFGVFGLCQIHAFVDYLRSKLNPQQFEVLFRSVISLVGFVLLTVGALLMLTGKISPWTGRFYSLLDPSYAKNNIPIIASVSEHQPTTWSSYYFDLQLLVFMFPVGLYYCFSNLSDARIFIIMYGVTSMYFSAVMVRLMLVLAPVMCILSGIGVSQVLSTYMKNLDISRPDKKSKKQQDSTYPIKNEVASGMILVMAFFLITYTFHSTWVTSEAYSSPSIVLSARGGDGSRIIFDDFREAYYWLRHNTPEDAKVMSWWDYGYQITAMANRTILVDNNTWNNTHISRVGQAMASTEEKAYEIMRELDVSYVLVIFGGLTGYSSDDINKFLWMVRIGGSTDTGKHIKENDYYTPTGEFRVDREGSPVLLNCLMYKMCYYRFGQVYTEAKRPPGFDRVRNAEIGNKDFELDVLEEAYTTEHWLVRIYKVKDLDNRGLSRT |
| 1497 | sp|P45975|SUV39\_DROME | MATAEAQIGVNRNLQKQDLSNLDVSKLTPLSPEVISRQATINIGTIGHVAHGKSTVVKAISGVQTVRFKNELERNITIKLERLSEKKIKNLLTSKQQRQQYEIKQRSMLRHLAELRRHSRFRRLCTKPASSSMPASTSSVDRRTTRRSTSQTSLSPSNSSGYGSVFGCEEHDVDKIPSLNGFAKLKRRRSSCVGAPTPNSKRSKNNMGVIAKRPPKGEYVVERIECVEMDQYQPVFFVKWLGYHDSENTWESLANVADCAEMEKFVERHQQLYETYIAKITTELEKQLEALPLMENITVAEVDAYEPLNLQIDLILLAQYRAAGSRSQREPQKIGERALKSMQIKRAQFVRRKQLADLALFEKRMNHVEKPSPPIRVENNIDLDTIDSNFMYIHDNIIGKDVPKPEAGIVGCKCTEDTEECTASTKCCARFAGELFAYERSTRRLRLRPGSAIYECNSRCSCDSSCSNRLVQHGRQVPLVLFKTANGSGWGVRAATALRKGEFVCEYIGEIITSDEANERGKAYDDNGRTYLFDLDYNTAQDSEYTIDAANYGNISHFINHSCDPNLAVFPCWIEHLNVALPHLVFFTLRPIKAGEELSFDYIRADNEDVPYENLSTAVRVECRCGRDNCRKVLF |
| 1498 | sp|Q80YD1|SUV3\_MOUSE | MSLPRCTLLWARLPAGRGAGPRAAPCSALRALVGSFPGASGRVPCLAASSSASGGSKAPNTSLFVPLTVKPQGPSADGDVGAELTRPLDKNEVKKILDKFYKRQEIQKLSADYGLDARLFHQAFISFRNYIMQSHSLDVDIHIVLNDICFSAAHVDDLFPFFLRHAKQIFPVLECKDDLRKISDLRIPPNWYPEARARQRKIIFHSGPTNSGKTYHAIQRYLSATSGVYCGPLKLLAHEIFEKSNAAGVPCDLVTGEERLTVEPEGKQATHVSCTVEMCNVATPYEVAVIDEIQMIRDPARGWAWTRALLGLCAEEVHLCGESAAINLVSELLYTTGEEVEVQKYERLTPISVLDHALESLDNLQPGDCIVCFSKNDIYSVSRQIEIRGLESAVIYGSLPPGTKLAQARKFNDPNDPCKILVATDAIGMGLNLSIRRIIFYSLIKPSINEKGEKELEPITTSQALQIAGRAGRFSSHFKEGQVTTMHRDDLALLKDILNRPVDPIQAAGLHPTAEQIEMFAYHLPETTLSNLIDIFVDFAQVDGQYFVCNMDDFKFSAELIQHIPLSLRVRYVFCTAPINKKQPFVCSSLLQFARQYSRNEPLTFAWLRRYIKWPLLPPKNIKDLMDLEAVHDVFDLYLWLSYRFIDMFPDSSLVRSLQKELDAIIQEGVHNITKLIKISESRKLLNLESLPSGDQSRLSGASKSPARRTRGTKSAGNKATEPLSPSDKELPLASRLVQQGLLTADMLRQLQKEWLTQQPEHSREKVGTRRKKKDPDSD |
| 1499 | sp|P60508|SYCY2\_HUMAN | MGLLLLVLILTPSLAAYRHPDFPLLEKAQQLLQSTGSPYSTNCWLCTSSSTETPGTAYPASPREWTSIEAELHISYRWDPNLKGLMRPANSLLSTVKQDFPDIRQKPPIFGPIFTNINLMGIAPICVMAKRKNGTNVGTLPSTVCNVTFTVDSNQQTYQTYTHNQFRHQPRFPKPPNITFPQGTLLDKSSRFCQGRPSSCSTRNFWFRPADYNQCLQISNLSSTAEWVLLDQTRNSLFWENKTKGANQSQTPCVQVLAGMTIATSYLGISAVSEFFGTSLTPLFHFHISTCLKTQGAFYICGQSIHQCLPSNWTGTCTIGYVTPDIFIAPGNLSLPIPIYGNSPLPRVRRAIHFIPLLAGLGILAGTGTGIAGITKASLTYSQLSKEIANNIDTMAKALTTMQEQIDSLAAVVLQNRRGLDMLTAAQGGICLALDEKCCFWVNQSGKVQDNIRQLLNQASSLRERATQGWLNWEGTWKWFSWVLPLTGPLVSLLLLLLFGPCLLNLITQFVSSRLQAIKLQTNLSAGRHPRNIQESPF |
| 1500 | sp|Q9DBZ9|SYDE1\_MOUSE | MAEPLLRKTFSRLRGREKLPRKKSEAKDRGHPAQRSEPKPPEPEPRVLEGSQAGAEVPPSPETPRSPTRGAYLQSLEPSSRRWVLGGAKPPEEISLGPRTPSSGEPAGEIWYNPIPEEDPRPPAPEPLGSQLASSEPEGPNIQGAAPTSPPTKTSRTKSPGPARRLSMKMKKLPELRRRLSLRSTRTGRDRERTAPAGSVISRYRLDSSVGTPGQASVAGGSRSPRGGYLSDGDSPERPGGPPSPTAFRPYEVGPSARTPPAALWGRLSLHLYGLGGLRPSPGATPRDLCCLLQVDGVARARTGPLRSGPDFLRLDHTFHLELEAARLLRALVLAWDPGVRRHRPCAQGTVLLPTIFRGCQAQQLAVRLEPQGFLYAKLTLSEQQEAPATAEPRVFGLPLQLLVEREQSPGQVPLIIRKCVGQIECRGLRVVGLYRLCGSAAVKKELRDAFEQDSAAVCLSEDVYPDINVITGILKDYLRELPTPLITQPLYQVVLEAMAQGHPSRASLGPEGTRGLLRCLPDVERATLTLLLDHLRLVSSFHTHNRMTPQNXAVCFGPVLLPARQTPSRPRLRSSGPGVTSAVDFKRHIEVLHYLLQSWPDTRRPSDTPDGAVAPYLRPKRQPPLHLPLAGPEVVTRPRGRGGPESPPSNRYAGDWSVCGGDLLPCGRDFLSGPDYDHVTGSDSEEDDDETGEPRGTTDFEDEFDAPFNPHLNLKDFDALILDLERELSKQINVCL |
| 1501 | sp|Q9VN03|SUV3\_DROME | MQNCRRCISLTGLLRMTLYLRPSFSIDLSLRRLHRAAFLFSRKKPETNLSTLFKPVQVHAYVDSEDVGSELSGKLEKAELLKILNKFTQRREIKSLCNENGLDDYLQQQAFGSFRRFCIEAENLPVDLHITFSDITQGAGHIDDIFPYFLRHAKTVFPHLDCMDDLKKISDLRQPANWYSNARAITRKIVFHAGPTNSGKTYHAMERYLSAKTGVYCGPLKLLATEVYNKANERGTPCDLVTGEERKFGISESLPANHVACTVEMTSVNTPYEVAVIDEIQQIRDPQRGWAWTRAFLGLIADEVHVCGEPGALDLLQKICETTGETVEVRLYDRLTELTVENTALGSLDNIVPGDCIVCFSKHDIYTVSREIEARGKEVAVIYGGLPPGTKLAQAAKFNDPANSCKVMVATDAIGMGLNLSIRRIIFYSLIKPSMNERGEREIDTISVSSALQIAGRAGRFRTQWEHGYVTAFKSEDLQTLQRILARTPEPIKQAGLHPTADQIELYAYHLPSSSLSNLMDIFVNLCTVDDSLYFMCNIEDFKFLAEMIQHVALPLRARYVFCCAPINRKMPFVCSMFLKVARQYSRNEPITFDFIKKNCGWPFKLPKTILDLVHLEAVFDVMDLYLWLSYRFMDLFPEAAYVRDAQKELDEIIQQGVFQITRLLKNTEASQDGETSNYAIRRITHVKEPRLPSLSRGRLTERLLAQGLLTPGMLSELRKEWDAQQLGKSNSQSNENSEPVVNSDDEDNYSGIGRKTRKKRRK |
| 1502 | sp|Q9UH65|SWP70\_HUMAN | MGSLKEELLKAIWHAFTALDQDHSGKVSKSQLKVLSHNLCTVLKVPHDPVALEEHFRDDDEGPVSNQGYMPYLNRFILEKVQDNFDKIEFNRMCWTLCVKKNLTKNPLLITEEDAFKIWVIFNFLSEDKYPLIIVSEEIEYLLKKLTEAMGGGWQQEQFEHYKINFDDSKNGLSAWELIELIGNGQFSKGMDRQTVSMAINEVFNELILDVLKQGYMMKKGHRRKNWTERWFVLKPNIISYYVSEDLKDKKGDILLDENCCVESLPDKDGKKCLFLVKCFDKTFEISASDKKKKQEWIQAIHSTIHLLKLGSPPPHKEARQRRKELRKKQLAEQEELERQMKELQAANESKQQELEAVRKKLEEAASRAAEEEKKRLQTQVELQARFSTELEREKLIRQQMEEQVAQKSSELEQYLQRVRELEDMYLKLQEALEDERQARQDEETVRKLQARLLEEESSKRAELEKWHLEQQQAIQTTEAEKQELENQRVLKEQALQEAMEQLEQLELERKQALEQYEEVKKKLEMATNKTKSWKDKVAHHEGLIRLIEPGSKNPHLITNWGPAAFTEAELEEREKNWKEKKTTE |
| 1503 | sp|Q62280|SSXT\_MOUSE | MSVAFAAPRQRGKGEITPAAIQKMLDENNHLIQCIMDYQNKGKASECSQYQQILHTNLVYLATIADSNQNMQSLLPAPPTQTMPMGPGGMSQSGPPPPPRSHNMPSDGMVGGGPPAPHMQNQMNGQMPGPNHMPMQGPGPSQLSMTNSSMNMPSSSHGSMGGYNHSVPSSQSMPVQNQMTMSQGQPMGNYGPRPNMNMQPNQGPMMHQQPPSQQYNMPPGGAQHYQGQQAPMGLMGQVNQGSHMMGQRQMPPYRPPQQGPPQQYSGQEDYYGDQYSHGGQGPPEGMNQQYYPDGHNDYGYQQPSYPEQGYDRPYEDSSQHYYEGGNSQYGQQQDAYQGPPPQQGYPPQQQQYPGQQGYPGQQQSYGPSQGGPGPQYPNYPQGQGQQYGGYRPTQPGPPQPPQQRPYGYDQGQYGNYQQ |
| 1504 | sp|P00957|SYA\_ECOLI | MSKSTAEIRQAFLDFFHSKGHQVVASSSLVPHNDPTLLFTNAGMNQFKDVFLGLDKRNYSRATTSQRCVRAGGKHNDLENVGYTARHHTFFEMLGNFSFGDYFKHDAIQFAWELLTSEKWFALPKERLWVTVYESDDEAYEIWEKEVGIPRERIIRIGDNKGAPYASDNFWQMGDTGPCGPCTEIFYDHGDHIWGGPPGSPEEDGDRYIEIWNIVFMQFNRQADGTMEPLPKPSVDTGMGLERIAAVLQHVNSNYDIDLFRTLIQAVAKVTGATDLSNKSLRVIADHIRSCAFLIADGVMPSNENRGYVLRRIIRRAVRHGNMLGAKETFFYKLVGPLIDVMGSAGEDLKRQQAQVEQVLKTEEEQFARTLERGLALLDEELAKLSGDTLDGETAFRLYDTYGFPVDLTADVCRERNIKVDEAGFEAAMEEQRRRAREASGFGADYNAMIRVDSASEFKGYDHLELNGKVTALFVDGKAVDAINAGQEAVVVLDQTPFYAESGGQVGDKGELKGANFSFAVEDTQKYGQAIGHIGKLAAGSLKVGDAVQADVDEARRARIRLNHSATHLMHAALRQVLGTHVSQKGSLVNDKVLRFDFSHNEAMKPEEIRAVEDLVNTQIRRNLPIETNIMDLEAAKAKGAMALFGEKYDERVRVLSMGDFSTELCGGTHASRTGDIGLFRIISESGTAAGVRRIEAVTGEGAIATVHADSDRLSEVAHLLKGDSNNLADKVRSVLERTRQLEKELQQLKEQAAAQESANLSSKAIDVNGVKLLVSELSGVEPKMLRTMVDDLKNQLGSTIIVLATVVEGKVSLIAGVSKDVTDRVKAGELIGMVAQQVGGKGGGRPDMAQAGGTDAAALPAALASVKGWVSAKLQ |
| 1505 | sp|O95793|STAU1\_HUMAN | MSQVQVQVQNPSAALSGSQILNKNQSLLSQPLMSIPSTTSSLPSENAGRPIQNSALPSASITSTSAAAESITPTVELNALCMKLGKKPMYKPVDPYSRMQSTYNYNMRGGAYPPRYFYPFPVPPLLYQVELSVGGQQFNGKGKTRQAAKHDAAAKALRILQNEPLPERLEVNGRESEEENLNKSEISQVFEIALKRNLPVNFEVARESGPPHMKNFVTKVSVGEFVGEGEGKSKKISKKNAAIAVLEELKKLPPLPAVERVKPRIKKKTKPIVKPQTSPEYGQGINPISRLAQIQQAKKEKEPEYTLLTERGLPRRREFVMQVKVGNHTAEGTGTNKKVAKRNAAENMLEILGFKVPQAQPTKPALKSEEKTPIKKPGDGRKVTFFEPGSGDENGTSNKEDEFRMPYLSHQQLPAGILPMVPEVAQAVGVSQGHHTKDFTRAAPNPAKATVTAMIARELLYGGTSPTAETILKNNISSGHVPHGPLTRPSEQLDYLSRVQGFQVEYKDFPKNNKNEFVSLINCSSQPPLISHGIGKDVESCHDMAALNILKLLSELDQQSTEMPRTGNGPMSVCGRC |
| 1506 | sp|P32917|STE5\_YEAST | MMETPTDNIVSPFHNFGSSTQYSGTLSRTPNQIIELEKPSTLSPLSRGKKWTEKLARFQRSSAKKKRFSPSPISSSTFSFSPKSRVTSSNSSGNEDGNLMNTPSTVSTDYLPQHPHRTSSLPRPNSNLFHASNSNLSRANEPPRAENLSDNIPPKVAPFGYPIQRTSIKKSFLNASCTLCDEPISNRRKGEKIIELACGHLSHQECLIISFGTTSKADVRALFPFCTKCKKDTNKAVQCIPENDELKDILISDFLIHKIPDSELSITPQSRFPPYSPLLPPFGLSYTPVERQTIYSQAPSLNPNLILAAPPKERNQIPQKKSNYTFLHSPLGHRRIPSGANSILADTSVALSANDSISAVSNSVRAKDDETKTTLPLLRSYFIQILLNNFQEELQDWRIDGDYGLLRLVDKLMISKDGQRYIQCWCFLFEDAFVIAEVDNDVDVLEIRLKNLEVFTPIANLRMTTLEASVLKCTLNKQHCADLSDLYIVQNINSDESTTVQKWISGILNQDFVFNEDNITSTLPILPIIKNFSKDVGNGRHETSTFLGLINPNKVVEVGNVHDNDTVIIRRGFTLNSGECSRQSTVDSIQSVLTTISSILSLKREKPDNLAIILQIDFTKLKEEDSLIVVYNSLKALTIKFARLQFCFVDRNNYVLDYGSVLHKIDSLDSISNLKSKSSSTQFSPIWLKNTLYPENIHEHLGIVAVSNSNMEAKKSILFQDYRCFTSFGRRRPNELKIKVGYLNVDYSDKIDELVEASSWTFVLETLCYSFGLSFDEHDDDDEEDNDDSTDNELDNSSGSLSDAESTTTIHIDSPFDNENATANMVNDRNLLTEGEHSNIENLETVASSVQPALIPNIRFSLHSEEEGTNENENENDMPVLLLSDMDKGIDGITRRSSFSSLIESGNNNCPLHMDYI |
| 1507 | sp|P17600|SYN1\_HUMAN | MNYLRRRLSDSNFMANLPNGYMTDLQRPQPPPPPPGAHSPGATPGPGTATAERSSGVAPAASPAAPSPGSSGGGGFFSSLSNAVKQTTAAAAATFSEQVGGGSGGAGRGGAASRVLLVIDEPHTDWAKYFKGKKIHGEIDIKVEQAEFSDLNLVAHANGGFSVDMEVLRNGVKVVRSLKPDFVLIRQHAFSMARNGDYRSLVIGLQYAGIPSVNSLHSVYNFCDKPWVFAQMVRLHKKLGTEEFPLIDQTFYPNHKEMLSSTTYPVVVKMGHAHSGMGKVKVDNQHDFQDIASVVALTKTYATAEPFIDAKYDVRVQKIGQNYKAYMRTSVSGNWKTNTGSAMLEQIAMSDRYKLWVDTCSEIFGGLDICAVEALHGKDGRDHIIEVVGSSMPLIGDHQDEDKQLIVELVVNKMAQALPRQRQRDASPGRGSHGQTPSPGALPLGRQTSQQPAGPPAQQRPPPQGGPPQPGPGPQRQGPPLQQRPPPQGQQHLSGLGPPAGSPLPQRLPSPTSAPQQPASQAAPPTQGQGRQSRPVAGGPGAPPAARPPASPSPQRQAGPPQATRQTSVSGPAPPKASGAPPGGQQRQGPPQKPPGPAGPTRQASQAGPVPRTGPPTTQQPRPSGPGPAGRPKPQLAQKPSQDVPPPATAAAGGPPHPQLNKSQSLTNAFNLPEPAPPRPSLSQDEVKAETIRSLRKSFASLFSD |
| 1508 | sp|P04805|SYE\_ECOLI | MKIKTRFAPSPTGYLHVGGARTALYSWLFARNHGGEFVLRIEDTDLERSTPEAIEAIMDGMNWLSLEWDEGPYYQTKRFDRYNAVIDQMLEEGTAYKCYCSKERLEALREEQMAKGEKPRYDGRCRHSHEHHADDEPCVVRFANPQEGSVVFDDQIRGPIEFSNQELDDLIIRRTDGSPTYNFCVVVDDWDMEITHVIRGEDHINNTPRQINILKALKAPVPVYAHVSMINGDDGKKLSKRHGAVSVMQYRDDGYLPEALLNYLVRLGWSHGDQEIFTREEMIKYFTLNAVSKSASAFNTDKLLWLNHHYINALPPEYVATHLQWHIEQENIDTRNGPQLADLVKLLGERCKTLKEMAQSCRYFYEDFAEFDADAAKKHLRPVARQPLEVVRDKLAAITDWTAENVHHAIQATADELEVGMGKVGMPLRVAVTGAGQSPALDVTVHAIGKTRSIERINKALDFIAERENQQ |
| 1509 | sp|P04390|T2E5\_ECOLX | MSLRSDLINALYDENQKYDVCGIISAEGKIYPLGSDTKVLSTIFELFSRPIINKIAEKHGYIVEEPKQQNHYPDFTLYKPSEPNKKIAIDIKTTYTNKENEKIKFTLGGYTSFIRNNTKNIVYPFDQYIAHWIIGYVYTRVATRKSSLKTYNINELNEIPKPYKGVKVFLQDKWVIAGDLAGSGNTTNIGSIHAHYKDFVEGKGIFDSEDEFLDYWRNYERTSQLRNDKYNNISEYRNWIYRGRK |
| 1510 | sp|Q8K1H1|TDRD7\_MOUSE | MLEADLVSKMLRAVLQSHKNGIVLPRLQGEYRSLTGDWIPFKQLGYPTLEAYLRSVPAVVRIEASRSGEIVCYAVACTETARIAQLVARQRTSKRKIGRQINCQMRVKKAMPFFLEGKPKATLRQPGFASDYSISRKPNSALLRDRGSALGVKADVDMPPYPDTPVQRHASMSANSRFSPKSSLPASFQTHISRACPTEVNDNLNQTVEKPNITPPASYTNKMDEVQNRIKEILDKHNNGIWISKLPHFYKEFYKEDLNQGVLQQFEHWPHICTVEKPCGGGQDSLLYPARREQPLKSDQDPEKELPPPPPAPKQEVPSQGSPAVMPDVKEKVAELLGKYSSGLWASALPKAFEDMYKVKFPEDALKNLASLSDVCTINYISGNTQKAILYAKLPLPTDKILKDEGQAQGDFDIKSMIEQEYLQIEKNMAESADEFLEDITVPPLVIPTEASPSVLVVELSNTNDVVIRYVGKDYSAAQELMEDEMKEFYSKNPRVTPIQTVHVGQLLAVNAEEDAWLRAQIISTDENKIKVCYVDYGFCENIEKSKAYRLNPRFCSLSFQATKCKLAGLEVLNDDPDLVKAVESLTCGKIFAVEILDKSDVPLVVLYDTSGEDDININATCLKAICDRSLQVHLQVDAMYTNVKVTNICSDGTLYCQVPCKGLNKLNDLLHKTEDYFHCKHMTSEYFISLPFCGKICLFHCKGKWLRVEITNVHSSRALDVQFLDSGNSTSVKVSELREIPPRFLQEMLAIPPQAIKCCLADLPQSIGMWTPDAVLWLRDSVLNCSDCSIKVTKMDETKGVAYVYLFTPNNFPDPHRSINRQITNADLWKHQKDVFLSAVSTAASSPGNRNGGTPAPGSPAESLRKSHPEVIKKSVLDHTSSFSLEELPPPVHLSRSGEHMDVYVPVACHPGHFVIQPWQEIHKLEVLMEEMILYYSVSEERHIAVERDQVYAAKVENKWYRVLLKGILTNGLVSVYELDYGKHELVNIRKVQPLVDVFRKLPFQAVTAQLAGVKCSQWSEEASMVFRNHVEKKALVALVQTVVEHTNPWDRKVVLYLVDTSLPDTDTWIHDFMSQYLLELSKVN |
| 1511 | sp|P50991|TCPD\_HUMAN | MPENVAPRSGATAGAAGGRGKGAYQDRDKPAQIRFSNISAAKAVADAIRTSLGPKGMDKMIQDGKGDVTITNDGATILKQMQVLHPAARMLVELSKAQDIEAGDGTTSVVIIAGSLLDSCTKLLQKGIHPTIISESFQKALEKGIEILTDMSRPVELSDRETLLNSATTSLNSKVVSQYSSLLSPMSVNAVMKVIDPATATSVDLRDIKIVKKLGGTIDDCELVEGLVLTQKVSNSGITRVEKAKIGLIQFCLSAPKTDMDNQIVVSDYAQMDRVLREERAYILNLVKQIKKTGCNVLLIQKSILRDALSDLALHFLNKMKIMVIKDIEREDIEFICKTIGTKPVAHIDQFTADMLGSAELAEEVNLNGSGKLLKITGCASPGKTVTIVVRGSNKLVIEEAERSIHDALCVIRCLVKKRALIAGGGAPEIELALRLTEYSRTLSGMESYCVRAFADAMEVIPSTLAENAGLNPISTVTELRNRHAQGEKTAGINVRKGGISNILEELVVQPLLVSVSALTLATETVRSILKIDDVVNTR |
| 1512 | sp|P00952|SYY\_GEOSE | MDLLAELQWRGLVNQTTDEDGLRKLLNEERVTLYCGFDPTADSLHIGHLATILTMRRFQQAGHRPIALVGGATGLIGDPSGKKSERTLNAKETVEAWSARIKEQLGRFLDFEADGNPAKIKNNYDWIGPLDVITFLRDVGKHFSVNYMMAKESVQSRIETGISFTEFSYMMLQAYDFLRLYETEGCRLQIGGSDQWGNITAGLELIRKTKGEARAFGLTIPLVTKADGTKFGKTESGTIWLDKEKTSPYEFYQFWINTDDRDVIRYLKYFTFLSKEEIEALEQELREAPEKRAAQKTLAEEVTKLVHGEEALRQAIRISEALFSGDIANLTAAEIEQGFKDVPSFVHEGGDVPLVELLVSAGISPSKRQAREDIQNGAIYVNGERLQDVGAILTAEHRLEGRFTVIRRGKKKYYLIRYA |
| 1513 | sp|P40749|SYT4\_MOUSE | MAPITTSRVEFDEIPTVVGIFSAFGLVFTVSLFAWICCQRRSAKSNKTPPYKFVHVLKGVDIYPENLSSKKKFGGDDKSEVKGKAALPNLSLHLDLEKRDLNGNFPKANPKAGSSSDLENVTPKLFTETEKEANSPESLKSSTSLTSEEKQEKLGTLFLSLEYNFEKKAFVVNIKEAQGLPAMDEQSMTSDPYIKMTILPEKKHRVKTRVLRKTLDPVFDETFTFYGIPYPHIQELSLHFTVLSFDRFSRDDVIGEVLIPLSGIELSDGKMLMTREIIKRNAKKSSGRGELLVSLCYQSTTNTLTVVVLKARHLPKSDVSGLSDPYVKVNLYHAKKRISKKKTHVKKCTPNAVFNELFVFDIPCESLEEISVEFLVLDSERGSRNEVIGRLVLGATAEGSGGGHWKEICDFPRRQIAKWHMLCDG |
| 1514 | sp|Q80VL1|TDRKH\_MOUSE | MSTERTSWTNLSTIQKIALGLGIPASATVAYILYRRYRESREERLTFVGEDDIEIEMRVPQEAVKLIIGRQGANIKQLRKQTGARIDVDTEDVGDERVLLISGFPVQVCKAKAAIHQILTENTPVFEQLSVPQRSVGRIIGRGGETIRSICKASGAKITCDKESEGTLLLSRLIKISGTQKEVAAAKHLILEKVSEDEELRKRIAHSAETRVPRKQPISVRREEVTEPGGAGEAALWKNTNSSMGPATPLEVPLRKGGGDMVVVGPKEGSWEKPNDDSFQNSGAQSSPETSMFEIPSPDFSFHADEYLEVYVSASEHPNHFWIQIIGSRSLQLDKLVSEMTQHYENSLPEDLTVHVGDIVAAPLSTNGSWYRARVLGTLENGNLDLYFVDFGDNGDCALKDLRALRSDFLSLPFQAIECSLARIAPTGEEWEEEALDEFDRLTHCADWKPLVAKISSYVQTGISTWPKIYLYDTSDEKKLDIGLELVRKGYAVELPEDMEENRTVPNMLKDMATETDDSLASILTETKKSPEEMPHTLSCLSLSEAASMSGDDNLEDDLF |
| 1515 | sp|P36370|TAP1\_RAT | MAAHAWPTAALLLLLVDWLLLRPVLPGIFSLLVPEVPLLRVWAVGLSRWAILGLGVRGVLGVTAGARGWLAALQPLVAALGLALPGLASFRKLSAWGALREGDNAGLLHWNSRLDAFVLSYVAALPAAALWHKLGGFWAPSGHKGAGDMLCRMLGFLDSKKGRLHLVLVLLILSCLGEMAIPFFTGRITDWILQDKTAPSFARNMWLMCILTIASTVLEFAGDGIYNITMGHMHSRVHGEVFRAVLHQETGFFLKNPTGSITSRVTEDTSNVCESISDKLNLFLWYLGRGLCLLAFMIWGSFYLTVVTLLSLPLLFLLPRRLGKVYQSLAVKVQESLAKSTQVALEALSAMPTVRSFANEEGEAQKFRQKLEEMKPLNKKEALAYVTEVWTMSVSGMLLKVGILYLGGQLVVRGAVSSGNLVSFVLYQLQFTRAVEVLLSIYPSMQKSVGASEKIFEYLDRTPCSPLSGSLAPLNMKGLVKFQDVSFAYPNHPNVQVLQGLTFTLYPGKVTALVGPNGSGKSTVAALLQNLYQPTGGKVLLDGEPLVQYDHHYLHTQVAAVGQEPLLFGRSFRENIAYGLTRTPTMEEITAVAMESGAHDFISGFPQGYDTEVGETGNQLSGGQRQAVALARALIRKPRLLILDDATSALDAGNQLRVQRLLYESPEWASRTVLLITQQLSLAERAHHILFLKEGSVCEQGTHLQLMERGGCYRSMVEALAAPSD |
| 1516 | sp|P34978|TA2R\_RAT | MWLNSTSLGACFRPVNITLQERRAIASPWFAASFCALGLGSNLLALSVLAGARPGAGPRSSFLALLCGLVLTDFLGLLVTGAVVASQHAALLDWRATDPGCRLCHFMGAAMVFFGLCPLLLGAAMAAERFVGITRPFSRPAATSRRAWATVGLVWVGAGTLGLLPLLGLGRYSVQYPGSWCFLTLGAERGDVAFGLMFALLGSVSVGLSLLLNTVSVATLCRVYHAREATQRPRDCEVEMMVQLVGIMVVATVCWMPLLVFILQTLLQTLPVMSPSGQLLRTTERQLLIYLRVATWNQILDPWVYILFRRSVLRRLHPRFTSQLQAVSLHSPPTQAMLSGP |
| 1517 | sp|Q13428|TCOF\_HUMAN | MAEARKRRELLPLIYHHLLRAGYVRAAREVKEQSGQKCFLAQPVTLLDIYTHWQQTSELGRKRKAEEDAALQAKKTRVSDPISTSESSEEEEEAEAETAKATPRLASTNSSVLGADLPSSMKEKAKAETEKAGKTGNSMPHPATGKTVANLLSGKSPRKSAEPSANTTLVSETEEEGSVPAFGAAAKPGMVSAGQADSSSEDTSSSSDETDVEGKPSVKPAQVKASSVSTKESPARKAAPAPGKVGDVTPQVKGGALPPAKRAKKPEEESESSEEGSESEEEAPAGTRSQVKASEKILQVRAASAPAKGTPGKGATPAPPGKAGAVASQTKAGKPEEDSESSSEESSDSEEETPAAKALLQAKASGKTSQVGAASAPAKESPRKGAAPAPPGKTGPAVAKAQAGKREEDSQSSSEESDSEEEAPAQAKPSGKAPQVRAASAPAKESPRKGAAPAPPRKTGPAAAQVQVGKQEEDSRSSSEESDSDREALAAMNAAQVKPLGKSPQVKPASTMGMGPLGKGAGPVPPGKVGPATPSAQVGKWEEDSESSSEESSDSSDGEVPTAVAPAQEKSLGNILQAKPTSSPAKGPPQKAGPVAVQVKAEKPMDNSESSEESSDSADSEEAPAAMTAAQAKPALKIPQTKACPKKTNTTASAKVAPVRVGTQAPRKAGTATSPAGSSPAVAGGTQRPAEDSSSSEESDSEEEKTGLAVTVGQAKSVGKGLQVKAASVPVKGSLGQGTAPVLPGKTGPTVTQVKAEKQEDSESSEEESDSEEAAASPAQVKTSVKKTQAKANPAAARAPSAKGTISAPGKVVTAAAQAKQRSPSKVKPPVRNPQNSTVLARGPASVPSVGKAVATAAQAQTGPEEDSGSSEEESDSEEEAETLAQVKPSGKTHQIRAALAPAKESPRKGAAPTPPGKTGPSAAQAGKQDDSGSSSEESDSDGEAPAAVTSAQVIKPPLIFVDPNRSPAGPAATPAQAQAASTPRKARASESTARSSSSESEDEDVIPATQCLTPGIRTNVVTMPTAHPRIAPKASMAGASSSKESSRISDGKKQEGPATQVSKKNPASLPLTQAALKVLAQKASEAQPPVARTQPSSGVDSAVGTLPATSPQSTSVQAKGTNKLRKPKLPEVQQATKAPESSDDSEDSSDSSSGSEEDGEGPQGAKSAHTLGPTPSRTETLVEETAAESSEDDVVAPSQSLLSGYMTPGLTPANSQASKATPKLDSSPSVSSTLAAKDDPDGKQEAKPQQAAGMLSPKTGGKEAASGTTPQKSRKPKKGAGNPQASTLALQSNITQCLLGQPWPLNEAQVQASVVKVLTELLEQERKKVVDTTKESSRKGWESRKRKLSGDQPAARTPRSKKKKKLGAGEGGEASVSPEKTSTTSKGKAKRDKASGDVKEKKGKGSLGSQGAKDEPEEELQKGMGTVEGGDQSNPKSKKEKKKSDKRKKDKEKKEKKKKAKKASTKDSESPSQKKKKKKKKTAEQTV |
| 1518 | sp|P04053|TDT\_HUMAN | MDPPRASHLSPRKKRPRQTGALMASSPQDIKFQDLVVFILEKKMGTTRRAFLMELARRKGFRVENELSDSVTHIVAENNSGSDVLEWLQAQKVQVSSQPELLDVSWLIECIRAGKPVEMTGKHQLVVRRDYSDSTNPGPPKTPPIAVQKISQYACQRRTTLNNCNQIFTDAFDILAENCEFRENEDSCVTFMRAASVLKSLPFTIISMKDTEGIPCLGSKVKGIIEEIIEDGESSEVKAVLNDERYQSFKLFTSVFGVGLKTSEKWFRMGFRTLSKVRSDKSLKFTRMQKAGFLYYEDLVSCVTRAEAEAVSVLVKEAVWAFLPDAFVTMTGGFRRGKKMGHDVDFLITSPGSTEDEEQLLQKVMNLWEKKGLLLYYDLVESTFEKLRLPSRKVDALDHFQKCFLIFKLPRQRVDSDQSSWQEGKTWKAIRVDLVLCPYERRAFALLGWTGSRQFERDLRRYATHERKMILDNHALYDKTKRIFLKAESEEEIFAHLGLDYIEPWERNA |
| 1519 | sp|Q9Y458|TBX22\_HUMAN | MALSSRARAFSVEALVGRPSKRKLQDPIQAEQPELREKKGGEEEEERRSSAAGKSEPLEKQPKTEPSTSASSGCGSDSGYGNSSESLEEKDIQMELQGSELWKRFHDIGTEMIITKAGRRMFPSVRVKVKGLDPGKQYHVAIDVVPVDSKRYRYVYHSSQWMVAGNTDHLCIIPRFYVHPDSPCSGETWMRQIISFDRMKLTNNEMDDKGHIILQSMHKYKPRVHVIEQGSSVDLSQIQSLPTEGVKTFSFKETEFTTVTAYQNQQITKLKIERNPFAKGFRDTGRNRGVLDGLLETYPWRPSFTLDFKTFGADTQSGSSGSSPVTSSGGAPSPLNSLLSPLCFSPMFHLPTSSLGMPCPEAYLPNVNLPLCYKICPTNFWQQQPLVLPAPERLASSNSSQSLAPLMMEVPMLSSLGVTNSKSGSSEDSSDQYLQAPNSTNQMLYGLQSPGNIFLPNSITPEALSCSFHPSYDFYRYNFSMPSRLISGSNHLKVNDDSQVSFGEGKCNHVHWYPAINHYL |
| 1520 | sp|O60806|TBX19\_HUMAN | MAMSELGTRKPSDGTVSHLLNVVESELQAGREKGDPTEKQLQIILEDAPLWQRFKEVTNEMIVTKNGRRMFPVLKISVTGLDPNAMYSLLLDFVPTDSHRWKYVNGEWVPAGKPEVSSHSCVYIHPDSPNFGAHWMKAPISFSKVKLTNKLNGGGQIMLNSLHKYEPQVHIVRVGSAHRMVTNCSFPETQFIAVTAYQNEEITALKIKYNPFAKAFLDAKERNHLRDVPEAISESQHVTYSHLGGWIFSNPDGVCTAGNSNYQYAAPLPLPAPHTHHGCEHYSGLRGHRQAPYPSAYMHRNHSPSVNLIESSSNNLQVFSGPDSWTSLSSTPHASILSVPHTNGPINPGPSPYPCLWTISNGAGGPSGPGPEVHASTPGAFLLGNPAVTSPPSVLSTQAPTSAGVEVLGEPSLTSIAVSTWTAVASHPFAGWGGPGAGGHHSPSSLDG |
| 1521 | sp|A2VDJ0|T131L\_HUMAN | MAGLRRPQPGCYCRTAAAVNLLLGVFQVLLPCCRPGGAQGQAIEPLPNVVELWQAEEGELLLPTQGDSEEGLEEPSQEQSFSDKLFSGKGLHFQPSVLDFGIQFLGHPVAKILHAYNPSRDSEVVVNSVFAAAGHFHVPPVPCRVIPAMGKTSFRIIFLPTEEGSIESSLFINTSSYGVLSYHVSGIGTRRISTEGSAKQLPNAYFLLPKVQSIQLSQMQAETTNTSLLQVQLECSLHNKVCQQLKGCYLESDDVLRLQMSIMVTMENFSKEFEENTQHLLDHLSIVYVATDESETSDDSAVNMYILHSGNSLIWIQDIRHFSQRDALSLQFEPVLLPTSTTNFTKIASFTCKATSCDSGIIEDVKKTTHTPTLKACLFSSVAQGYFRMDSSATQFHIETHENTSGLWSIWYRNHFDRSVVLNDVFLSKETKHMLKILNFTGPLFLPPGCWNIFSLKLAVKDIAINLFTNVFLTTNIGAIFAIPLQIYSAPTKEGSLGFEVIAHCGMHYFMGKSKAGNPNWNGSLSLDQSTWNVDSELANKLYERWKKYKNGDVCKRNVLGTTRFAHLKKSKESESFVFFLPRLIAEPGLMLNFSATALRSRMIKYFVVQNPSSWPVSLQLLPLSLYPKPEALVHLLHRWFGTDMQMINFTTGEFQLTEACPYLGTHSEESRFGILHLHLQPLEMKRVGVVFTPADYGKVTSLILIRNNLTVIDMIGVEGFGARELLKVGGRLPGAGGSLRFKVPESTLMDCRRQLKDSKQILSITKNFKVENIGPLPITVSSLKINGYNCQGYGFEVLDCHQFSLDPNTSRDISIVFTPDFTSSWVIRDLSLVTAADLEFRFTLNVTLPHHLLPLCADVVPGPSWEESFWRLTVFFVSLSLLGVILIAFQQAQYILMEFMKTRQRQNASSSSQQNNGPMDVISPHSYKSNCKNFLDTYGPSDKGRGKNCLPVNTPQSRIQNAAKRSPATYGHSQKKHKCSVYYSKHKTSTAAASSTSTTTEEKQTSPLGSSLPAAKEDICTDAMRENWISLRYASGINVNLQKNLTLPKNLLNKEENTLKNTIVFSNPSSECSMKEGIQTCMFPKETDIKTSENTAEFKERELCPLKTSKKLPENHLPRNSPQYHQPDLPEISRKNNGNNQQVPVKNEVDHCENLKKVDTKPSSEKKIHKTSREDMFSEKQDIPFVEQEDPYRKKKLQEKREGNLQNLNWSKSRTCRKNKKRGVAPVSRPPEQSDLKLVCSDFERSELSSDINVRSWCIQESTREVCKADAEIASSLPAAQREAEGYYQKPEKKCVDKFCSDSSSDCGSSSGSVRASRGSWGSWSSTSSSDGDKKPMVDAQHFLPAGDSVSQNDFPSEAPISLNLSHNICNPMTVNSLPQYAEPSCPSLPAGPTGVEEDKGLYSPGDLWPTPPVCVTSSLNCTLENGVPCVIQESAPVHNSFIDWSATCEGQFSSAYCPLELNDYNAFPEENMNYANGFPCPADVQTDFIDHNSQSTWNTPPNMPAAWGHASFISSPPYLTSTRSLSPMSGLFGSIWAPQSDVYENCCPINPTTEHSTHMENQAVVCKEYYPGFNPFRAYMNLDIWTTTANRNANFPLSRDSSYCGNV |
| 1522 | sp|P62500|T22D1\_MOUSE | MHQPPESTAAAAAAADISARKMAHPAMFPRRGSGGGSASALNAAGTGVSGAAPSSEDFPPPSLLQPPPPAASSTQGPQPPPPQSLNLLSQAQLQGQPLAPGGTQMKKKSGFQITSVTPAQISASISSNNSIAEDTESYDDLDESHTEDLSSSEILDVSLSRATDLGEPERSSSEETLNNFQEAETPGAVSPNQPHLPQPHLPHLPQQNVVINGNAHPHHLHHHHHPHHGHHLHHGHHHSSHAAVAGPSIPGGPPSSPVSRKLSTTGSSDGGVPVAPPPAVPSSGLPASVMTNIRTPSTTGSLGINSVTGTSATNNVNIAAVGSFSPSVTNSVHGNANINTSNIPNAASISGGPGVTSVVNSSILSGMGNGTVSSSPVANSVLNAAAGITVGVVSSQQQQQQQQQPTVNTSRFRVVKLDSTSEPFKKGRWTCTEFYEKENAVPATEGVAINKVVETVKQTPTEASSSERESTSGSSVSSSVSTLSHYTESVGSGEMMGAPAVVAPQQPPLPPAPPGLQGVALQQLEFSSPAPQSIAAVSMPQSISQSQMSQVQLQPQELSFQQKQTLQPVPLQATMSAATGIQPSPVSVVGVTAAVGQQPSVSSLAQPQLPYSQTAPPVQTPLPGAPPQQLQYGQQQPMVPAQIAPGHGQPVTQNPTSEYVQQQQQPIFQAALSSGQSSSTGTGAGISVIPVAQAQGIQLPGQPTAVQTQPAGAAGQPIGQAQTAVSTVPTGGQIASIGQQANIPTAVQQPSTQVTPSVIQQGAPPSSQVVLPAPTGIIHQGVQTRASSLPQQLVIAPQSTLVTVPPQPQGVETVAQGVVSQQLPTGSPLPSASTISVTNQVSSAAPSGMPSVPTNLVPPQNIAQPPATQNGSLVQSVSQSPLIATNINLPLAQQIPLSSTQFSTQSLAQAIGSQMEDARRPAEPSLGGLPQTMSGDSGGMSAVSDGSSSSLAAPASLFPLKVLPLTTPLVDGEDESSGASVVAIDNKIEQAMDLVKSHLMYAVREEVEVLKEQIKELIEKNSQLEQENNLLKTLASPEQLAQFQAQLQTGSPPATTQPQGTTQPPAQPASQGSGSTA |
| 1523 | sp|P56279|TCL1A\_HUMAN | MAECPTLGEAVTDHPDRLWAWEKFVYLDEKQHAWLPLTIEIKDRLQLRVLLRREDVVLGRPMTPTQIGPSLLPIMWQLYPDGRYRSSDSSFWRLVYHIKIDGVEDMLLELLPDD |
| 1524 | sp|A0PK00|T120B\_HUMAN | MSGQLERCEREWHELEGEFQELQETHRIYKQKLEELAALQTLCSSSISKQKKHLKDLKLTLQRCKRHASREEAELVQQMAANIKERQDVFFDMEAYLPKKNGLYLNLVLGNVNVTLLSNQAKFAYKDEYEKFKLYLTIILLLGAVACRFVLHYRVTDEVFNFLLVWYYCTLTIRESILISNGSRIKGWWVSHHYVSTFLSGVMLTWPNGPIYQKFRNQFLAFSIFQSCVQFLQYYYQRGCLYRLRALGERNHLDLTVEGFQSWMWRGLTFLLPFLFCGHFWQLYNAVTLFELSSHEECREWQVFVLAFTFLILFLGNFLTTLKVVHAKLQKNRGKTKQP |
| 1525 | sp|Q15560|TCEA2\_HUMAN | MMGKEEEIARIARRLDKMVTKKSAEGAMDLLRELKAMPITLHLLQSTRVGMSVNALRKQSSDEEVIALAKSLIKSWKKLLDASDAKARERGRGMPLPTSSRDASEAPDPSRKRPELPRAPSTPRITTFPPVPVTCDAVRNKCREMLTAALQTDHDHVAIGADCERLSAQIEECIFRDVGNTDMKYKNRVRSRISNLKDAKNPDLRRNVLCGAITPQQIAVMTSEEMASDELKEIRKAMTKEAIREHQMARTGGTQTDLFTCGKCRKKNCTYTQVQTRSSDEPMTTFVVCNECGNRWKFC |
| 1526 | sp|Q8BKT7|THOC5\_MOUSE | MSSESSKKRKPKVIRSDGTPTEGKRNRSDTEQEGKYYSEEAEVDLRDPGRDYELYKYTCQELQRLMAEIQDLKSKGSKDVAIEIEERRIQSCVHFMTLKKLNRLAHIRLKKGRDQTHEAKQKVDAYHLQLQNLLYEVMHLQKEITKCLEFKSKHEEIDLVSLEEFYSEAPPSISKAEITMGDPHQQTLARLDWELEQRKRLAEKYRECLSNKEKILKEIEVKRDYLSSLQPRLNSIMQASLPVQEYLFMPFDQAHKQYETARHLPPPLYVLFVQATAYGQACDKTLSVAIEGSVDEAKALFKPPEDSQDDESDSDAEEEQTTKRRRPTLGVQLDDKRKEMLKRHPLSVLLDLKCKDNSVLHLTFYYLMNLNIMTVKAKVTTAVELITPISAGDLLSPDSVLSCLYPGDHGKKTPNPANQYQFDKVGILTLRDYVLELGHPYLWVQKLGGLHFPKEQPQQTVMPDHSQSASHMETTMKLLKTRVQSRLALHKQFASLEHGIVPVTSDCQDLFPAKVVSRLVKWVIITHEDYMELHFTKDIVEAGLAGDTNLYYLALIERGTAKLQAAVVLNPGYSSIPPVFRLCLNWKGEKTNSNDDNIRAMESEVNVCYKELCGPRPSHQLLTNQLQRLCVLLDVYLETESHDDSFEGPKEFPQEKMCLRLFRGPSRMKPFKYNHPQGFFSHR |
| 1527 | sp|Q19691|TBX2\_CAEEL | MAFNPFALGRPDLLLPFMGAGVGGPGAGGPPPNLFFSMLQAGFPPGPVGSPPEDDGVTDDPKVELDERELWQQFSQCGTEMVITKSGRRIFPAYRVKISGLDKKSQYFVMMDLVPADEHRYKFNNSRWMIAGKADPEMPKTLYIHPDSPSTGEHWMSKGANFHKLKLTNNISDKHGYTILNSMHKYQPRLHVVRCADRHNLMYSTFRTFVFRETEFIAVTAYQNEKVTELKIENNPFAKGFRDAGAGKREKKRQLHRMNGDATQSPPGKTASLPTHSPHPSESNSEDDEPTLKKCKPEPSQTPTTSSLSTSTTPTLSAHHPLRSPQFCIPPPIDMMYQNMPMDLLAHWQMATLFPQFSMALNSPAAAASLLSKHLAKASSECKVEATSEDSEEAEKPEVKKEQKSVTPPKKGGFDVLDLLSKP |
| 1528 | sp|P16368|TIMP2\_BOVIN | MGAAARSLPLAFCLLLLGTLLPRADACSCSPVHPQQAFCNADIVIRAKAVNKKEVDSGNDIYGNPIKRIQYEIKQIKMFKGPDQDIEFIYTAPAAAVCGVSLDIGGKKEYLIAGKAEGNGNMHITLCDFIVPWDTLSATQKKSLNHRYQMGCECKITRCPMIPCYISSPDECLWMDWVTEKNINGHQAKFFACIKRSDGSCAWYRGAAPPKQEFLDIEDP |
| 1529 | sp|Q15542|TAF5\_HUMAN | MAALAEEQTEVAVKLEPEGPPTLLPPQAGDGAGEGSGGTTNNGPNGGGGNVAASSSTGGDGGTPKPTVAVSAAAPAGAAPVPAAAPDAGAPHDRQTLLAVLQFLRQSKLREAEEALRREAGLLEEAVAGSGAPGEVDSAGAEVTSALLSRVTASAPGPAAPDPPGTGASGATVVSGSASGPAAPGKVGSVAVEDQPDVSAVLSAYNQQGDPTMYEEYYSGLKHFIECSLDCHRAELSQLFYPLFVHMYLELVYNQHENEAKSFFEKFHGDQECYYQDDLRVLSSLTKKEHMKGNETMLDFRTSKFVLRISRDSYQLLKRHLQEKQNNQIWNIVQEHLYIDIFDGMPRSKQQIDAMVGSLAGEAKREANKSKVFFGLLKEPEIEVPLDDEDEEGENEEGKPKKKKPKKDSIGSKSKKQDPNAPPQNRIPLPELKDSDKLDKIMNMKETTKRVRLGPDCLPSICFYTFLNAYQGLTAVDVTDDSSLIAGGFADSTVRVWSVTPKKLRSVKQASDLSLIDKESDDVLERIMDEKTASELKILYGHSGPVYGASFSPDRNYLLSSSEDGTVRLWSLQTFTCLVGYKGHNYPVWDTQFSPYGYYFVSGGHDRVARLWATDHYQPLRIFAGHLADVNCTRFHPNSNYVATGSADRTVRLWDVLNGNCVRIFTGHKGPIHSLTFSPNGRFLATGATDGRVLLWDIGHGLMVGELKGHTDTVCSLRFSRDGEILASGSMDNTVRLWDAIKAFEDLETDDFTTATGHINLPENSQELLLGTYMTKSTPVVHLHFTRRNLVLAAGAYSPQ |
| 1530 | sp|P18117|THBA\_XENLA | MPSSMSGYIPSYLDKDELCVVCGDKATGYHYRCITCEGCKGFFRRTIQKNLHPSYSCKYEGKCVIDKVTRNQCQECRFKKCIAVGMATDLVLDDNKRLAKRKLIEENREKRRKDEIQKSLVQKPEPTQEEWELIQVVTEAHVATNAQGSHWKQKRKFLPEDIGQAPIVNAPEGGKVDLEAFSQFTKIITPAITRVVDFAKKLPMFCELPCEDQIILLKGCCMEIMSLRAAVRYDPESETLTLNGEMAVTRGQLKNGGLGVVSDAIFDLGVSLSSFSLDDTEVALLQAVLLMSSDRPGLASVERIEKCQEGFLLAFEHYINYRKHNIAHFWPKLLMKVTDLRMIGACHASRFLHMKVECPTELFPPLFLEVFED |
| 1531 | sp|P82873|TO202\_ARATH | MEFSTADFERLIMFEHARKNSEAQYKNDPLDSENLLKWGGALLELSQFQPIPEAKLMLNDAISKLEEALTINPGKHQALWCIANAYTAHAFYVHDPEEAKEHFDKATEYFQRAENEDPGNDTYRKSLDSSLKAPELHMQFMNQGMGQQILGGGGGGGGGGMASSNVSQSSKKKKRNTEFTYDVCGWIILACGIVAWVGMAKSLGPPPPAR |
| 1532 | sp|Q9R1F8|TLR2\_CRIGR | MLHVLWTFWILVAMTDLSRKGCSAQASLSCDAAGVCDGRSRSFTSIPSGLTAAMKSLDLSNNKITSIGHGDLRGCVNLRALILQSSGINTIEEDAFSSLSKLEYLDLSDNHLSNLSSSWFRPLSSLKYLNLLGNPYRILGETPLFLNLTHLQTLRVGNVATFSGIRRTDFAGLTSLDELEIKALSLQNYEPGSLQSIQSIHHLTFHLSQSDFLLGVFEDTLSSVGYLELRDANLDSFYFSELSTDEMNSPMKKLAFQNADLTDESFNELLKLLRYTPELLEVEFDDCTLNGVGDFQPSESDVVRELGKVETLIIRRLHIPRFYSFYDLSTVYTLLEKVKRITVENSKVFLVPCLFSQHLKSLEFLDLSENLMVEEYLKNAACEGSWPSLQTLILRQNRLKSIERTGKILLTLKNLTALDISRNSFQSMPDSCQWPGKMRFLNLSSTGIQAVKMCIPQTLEVLDVSNNNLISFSLFLPLLRELYISRNKLHTLPDASLFPVLLVMKIRENAISTFSKDQLSSFPKLVSLEAGGNHFICSCELLSFTLEHPALVQVLAGWPDSYLCDSPSRLRGQRVQDARPSVLECHQTLLVSGVCCALVLLILLIGGLCHHFHGLWYLRMMWAWLQAKRKPKKAPCRDICYDAFVSYSEQDSYWVENLMVQQLENSEPPFKLCLHKRDFVPGKWIIDNIIDSIEKSHKTLFVLSENFVRSEWCKYELDFSHFRLFDENNDAGILVLLEPIEKKAIPQRFCKLRKIMNTKTYLEWPLDEGQQEVFWVNLRTAIKS |
| 1533 | sp|P31483|TIA1\_HUMAN | MEDEMPKTLYVGNLSRDVTEALILQLFSQIGPCKNCKMIMDTAGNDPYCFVEFHEHRHAAAALAAMNGRKIMGKEVKVNWATTPSSQKKDTSSSTVVSTQRSQDHFHVFVGDLSPEITTEDIKAAFAPFGRISDARVVKDMATGKSKGYGFVSFFNKWDAENAIQQMGGQWLGGRQIRTNWATRKPPAPKSTYESNTKQLSYDEVVNQSSPSNCTVYCGGVTSGLTEQLMRQTFSPFGQIMEIRVFPDKGYSFVRFNSHESAAHAIVSVNGTTIEGHVVKCYWGKETLDMINPVQQQNQIGYPQPYGQWGQWYGNAQQIGQYMPNGWQVPAYGMYGQAWNQQGFNQTQSSAPWMGPNYGVQPPQGQNGSMLPNQPSGYRVAGYETQ |
| 1534 | sp|Q39163|TGA5\_ARATH | MGDTSPRTSVSTDGDTDHNNLMFDEGHLGIGASDSSDRSKSKMDQKTLRRLAQNREAARKSRLRKKAYVQQLENSRLKLTQLEQELQRARQQGVFISSSGDQAHSTAGDGAMAFDVEYRRWQEDKNRQMKELSSAIDSHATDSELRIIVDGVIAHYEELYRIKGNAAKSDVFHLLSGMWKTPAERCFLWLGGFRSSELLKLIASQLEPLTEQQSLDINNLQQSSQQAEDALSQGMDNLQQSLADTLSSGTLGSSSSGNVASYMGQMAMAMGKLGTLEGFIRQADNLRLQTYQQMVRLLTTRQSARALLAVHNYTLRLRALSSLWLARPRE |
| 1535 | sp|Q96FV9|THOC1\_HUMAN | MSPTPPLFSLPEARTRFTKSTREALNNKNIKPLLSTFSQVPGSENEKKCTLDQAFRGILEEEIINHSSCENVLAIISLAIGGVTEGICTASTPFVLLGDVLDCLPLDQCDTIFTFVEKNVATWKSNTFYSAGKNYLLRMCNDLLRRLSKSQNTVFCGRIQLFLARLFPLSEKSGLNLQSQFNLENVTVFNTNEQESTLGQKHTEDREEGMDVEEGEMGDEEAPTTCSIPIDYNLYRKFWSLQDYFRNPVQCYEKISWKTFLKYSEEVLAVFKSYKLDDTQASRKKMEELKTGGEHVYFAKFLTSEKLMDLQLSDSNFRRHILLQYLILFQYLKGQVKFKSSNYVLTDEQSLWIEDTTKSVYQLLSENPPDGERFSKMVEHILNTEENWNSWKNEGCPSFVKERTSDTKPTRIIRKRTAPEDFLGKGPTKKILMGNEELTRLWNLCPDNMEACKSETREHMPTLEEFFEEAIEQADPENMVENEYKAVNNSNYGWRALRLLARRSPHFFQPTNQQFKSLPEYLENMVIKLAKELPPPSEEIKTGEDEDEEDNDALLKENESPDVRRDKPVTGEQIEVFANKLGEQWKILAPYLEMKDSEIRQIECDSEDMKMRAKQLLVAWQDQEGVHATPENLINALNKSGLSDLAESLTNDNETNS |
| 1536 | sp|P01137|TGFB1\_HUMAN | MPPSGLRLLLLLLPLLWLLVLTPGRPAAGLSTCKTIDMELVKRKRIEAIRGQILSKLRLASPPSQGEVPPGPLPEAVLALYNSTRDRVAGESAEPEPEPEADYYAKEVTRVLMVETHNEIYDKFKQSTHSIYMFFNTSELREAVPEPVLLSRAELRLLRLKLKVEQHVELYQKYSNNSWRYLSNRLLAPSDSPEWLSFDVTGVVRQWLSRGGEIEGFRLSAHCSCDSRDNTLQVDINGFTTGRRGDLATIHGMNRPFLLLMATPLERAQHLQSSRHRRALDTNYCFSSTEKNCCVRQLYIDFRKDLGWKWIHEPKGYHANFCLGPCPYIWSLDTQYSKVLALYNQHNPGASAAPCCVPQALEPLPIVYYVGRKPKVEQLSNMIVRSCKCS |
| 1537 | sp|P82805|TO204\_ARATH | MDMQNENERLMVFEHARKVAEATYVKNPLDAENLTRWAGALLELSQFQTEPKQMILEAILKLGEALVIDPKKHDALWLIGNAHLSFGFLSSDQTEASDNFEKASQFFQLAVEEQPESELYRKSLTLASKAPELHTGGTAGPSSNSAKTMKQKKTSEFKYDVFGWVILASYVVAWISFANSQTPVSRQ |
| 1538 | sp|Q8NFQ8|TOIP2\_HUMAN | MADSGLREPQEDSQKDLENDPSVNSQAQETTIIASNAEEAEILHSACGLSKDHQEVETEGPESADTGDKSESPDEANVGKHPKDKTEDENKQSFLDGGKGHHLPSENLGKEPLDPDPSHSPSDKVGRADAHLGSSSVALPKEASDGTGASQEPPTTDSQEAQSPGHSSAGQEGEDTLRRRLLAPEAGSHPQQTQKLEEIKENAQDTMRQINKKGFWSYGPVILVVLVVAVVASSVNSYYSSPAQQVPKNPALEAFLAQFSQLEDKFPGQSSFLWQRGRKFLQKHLNASNPTEPATIIFTAAREGRETLKCLSHHVADAYTSSQKVSPIQIDGAGRTWQDSDTVKLLVDLELSYGFENGQKAAVVHHFESFPAGSTLIFYKYCDHENAAFKDVALVLTVLLEEETLEASVGPRETEEKVRDLLWAKFTNSDTPTSFNHMDSDKLSGLWSRISHLVLPVQPVSSIEEQGCLF |
| 1539 | sp|Q9GZN2|TGIF2\_HUMAN | MSDSDLGEDEGLLSLAGKRKRRGNLPKESVKILRDWLYLHRYNAYPSEQEKLSLSGQTNLSVLQICNWFINARRRLLPDMLRKDGKDPNQFTISRRGGKASDVALPRGSSPSVLAVSVPAPTNVLSLSVCSMPLHSGQGEKPAAPFPRGELESPKPLVTPGSTLTLLTRAEAGSPTGGLFNTPPPTPPEQDKEDFSSFQLLVEVALQRAAEMELQKQQDPSLPLLHTPIPLVSENPQ |
| 1540 | sp|P63306|TNFL6\_MACNE | MQQPFNYPYPQIYWVDSSASSPWAPPGTVLPCPTSVPRRPGQRRPPPPPPPPPLPPPPPSPLPPLPLPPLKKRGNHSTGLCLLVMFFMVLVALVGLGLGMFQLFHLQKELAELRESTSQKHTASSLEKQIGHPSPPPEKKEQRKVAHLTGKPNSRSMPLEWEDTYGIVLLSGVKYKKGGLVINETGLYFVYSKVYFRGQSCTNLPLSHKVYMRNSKYPQDLVMMEGKMMSYCTTGQMWAHSSYLGAVFNLTSADHLYVNVSELSLVNFEESQTFFGLYKL |
| 1541 | sp|Q62351|TFR1\_MOUSE | MMDQARSAFSNLFGGEPLSYTRFSLARQVDGDNSHVEMKLAADEEENADNNMKASVRKPKRFNGRLCFAAIALVIFFLIGFMSGYLGYCKRVEQKEECVKLAETEETDKSETMETEDVPTSSRLYWADLKTLLSEKLNSIEFADTIKQLSQNTYTPREAGSQKDESLAYYIENQFHEFKFSKVWRDEHYVKIQVKSSIGQNMVTIVQSNGNLDPVESPEGYVAFSKPTEVSGKLVHANFGTKKDFEELSYSVNGSLVIVRAGEITFAEKVANAQSFNAIGVLIYMDKNKFPVVEADLALFGHAHLGTGDPYTPGFPSFNHTQFPPSQSSGLPNIPVQTISRAAAEKLFGKMEGSCPARWNIDSSCKLELSQNQNVKLIVKNVLKERRILNIFGVIKGYEEPDRYVVVGAQRDALGAGVAAKSSVGTGLLLKLAQVFSDMISKDGFRPSRSIIFASWTAGDFGAVGATEWLEGYLSSLHLKAFTYINLDKVVLGTSNFKVSASPLLYTLMGKIMQDVKHPVDGKSLYRDSNWISKVEKLSFDNAAYPFLAYSGIPAVSFCFCEDADYPYLGTRLDTYEALTQKVPQLNQMVRTAAEVAGQLIIKLTHDVELNLDYEMYNSKLLSFMKDLNQFKTDIRDMGLSLQWLYSARGDYFRATSRLTTDFHNAEKTNRFVMREINDRIMKVEYHFLSPYVSPRESPFRHIFWGSGSHTLSALVENLKLRQKNITAFNETLFRNQLALATWTIQGVANALSGDIWNIDNEF |
| 1542 | sp|P25118|TNR1A\_MOUSE | MGLPTVPGLLLSLVLLALLMGIHPSGVTGLVPSLGDREKRDSLCPQGKYVHSKNNSICCTKCHKGTYLVSDCPSPGRDTVCRECEKGTFTASQNYLRQCLSCKTCRKEMSQVEISPCQADKDTVCGCKENQFQRYLSETHFQCVDCSPCFNGTVTIPCKETQNTVCNCHAGFFLRESECVPCSHCKKNEECMKLCLPPPLANVTNPQDSGTAVLLPLVILLGLCLLSFIFISLMCRYPRWRPEVYSIICRDPVPVKEEKAGKPLTPAPSPAFSPTSGFNPTLGFSTPGFSSPVSSTPISPIFGPSNWHFMPPVSEVVPTQGADPLLYESLCSVPAPTSVQKWEDSAHPQRPDNADLAILYAVVDGVPPARWKEFMRFMGLSEHEIERLEMQNGRCLREAQYSMLEAWRRRTPRHEDTLEVVGLVLSKMNLAGCLENILEALRNPAPSSTTRLPR |
| 1543 | sp|P50753|TNNT2\_RAT | MSDAEEEVVEYEEEQEEEDWSEEEEDEQEEAVEEEDGEAEPDPEGEAEAEEDKAEEVGPDEEARDAEDGPVEDSKPKPSRLFMPNLVPPKIPDGERVDFDDIHRKRMEKDLNELQTLIEAHFENRKKEEEELISLKDRIEKRRAERAEQQRIRNEREKERQNRLAEERARREEEENRRKAEDEARKKKALSNMMHFGGYIQKAQTERKSGKRQTEREKKKKILAERRKVLAIDHLNEDQLREKAKELWQSIHNLEAEKFDLQEKFKQQKYEINVLRNRINDNQKVSKTRGKAKVTGRWK |
| 1544 | sp|Q64729|TGFR1\_MOUSE | MEAAAAAPRRPQLLIVLVAAATLLPGAKALQCFCHLCTKDNFTCETDGLCFVSVTETTDKVIHNSMCIAEIDLIPRDRPFVCAPSSKTGAVTTTYCCNQDHCNKIELPTTGPFSEKQSAGLGPVELAAVIAGPVCFVCIALMLMVYICHNRTVIHHRVPNEEDPSLDRPFISEGTTLKDLIYDMTTSGSGSGLPLLVQRTIARTIVLQESIGKGRFGEVWRGKWRGEEVAVKIFSSREERSWFREAEIYQTVMLRHENILGFIAADNKDNGTWTQLWLVSDYHEHGSLFDYLNRYTVTVEGMIKLALSTASGLAHLHMEIVGTQGKPAIAHRDLKSKNILVKKNGTCCIADLGLAVRHDSATDTIDIAPNHRVGTKRYMAPEVLDDSINMKHFESFKRADIYAMGLVFWEIARRCSIGGIHEDYQLPYYDLVPSDPSVEEMRKVVCEQKLRPNIPNRWQSCEALRVMAKIMRECWYANGAARLTALRIKKTLSQLSQQEGIKM |
| 1545 | sp|P70191|TRAF5\_MOUSE | MAHSEEQAAVPCAFIRQNSGNSISLDFEPDTEYQFVEQLEERYKCAFCHSVLHNPHQTGCGHRFCQQCIRSLRELNSVPICPVDKEVIKPQEVFKDNCCKREVLNLHVYCKNAPGCNARIILGRFQDHLQHCSFQAVPCPNESCREAMLRKDVKEHLSAYCRFREEKCLYCKRDIVVTNLQDHEENSCPAYPVSCPNRCVQTIPRARVNEHLTVCPEAEQDCPFKHYGCTVKGKRGNLLEHERAALQDHMLLVLEKNYQLEQRISDLYQSLEQKESKIQQLAETVKKFEKELKQFTQMFGRNGTFLSNVQALTSHTDKSAWLEAQVRQLLQIVNQQPSRLDLRSLVDAVDSVKQRITQLEASDQRLVLLEGETSKHDAHINIHKAQLNKNEERFKQLEGACYSGKLIWKVTDYRVKKREAVEGHTVSVFSQPFYTSRCGYRLCARAYLNGDGSGKGTHLSLYFVVMRGEFDSLLQWPFRQRVTLMLLDQSGKKNHIVETFKADPNSSSFKRPDGEMNIASGCPRFVSHSTLENSKNTYIKDDTLFLKVAVDLTDLEDL |
| 1546 | sp|Q9QX01|TRPC1\_RAT | MMAALYPSTDLSGVSSSSLPSSPSSSSPNEVMALKDVREVKEENTLNEKLFLLACDKGDYYMVKKILEENSSGDLNINCVDVLGRNAVTITIENESLDILQLLLDYGCQKLMERIQNPEYSTTMDVAPVILAAHRNNYEILTMLLKQDVALPKPHAVGCECTLCSAKNKKDSLRHSRFRLDIYRCLASPALIMLTEEDPILRAFELSADLKELSLVEVEFWNDYEELARQCKMFAKDLLAQARNSRELEVILNHTSSDEPLDKRGLLEERMNLSRLKLAIKYNQKEFVSQSNCQQFLNTVWFGQMSGYRRKPTCKKIMTVLTVGIFWPVLSLCYLIAPKSQFGRIIHTPFMKFIIHGASYFTFLLLLNLYSLVYNEDKKNTMGPALERIDYLLILWIIGMIWSDIKRLWYEGLEDFLEESRNQLSFVMNSLYLATFALKVVAHNKFHDFADRKDWDAFHPTLVAEGLFAFANVLSYLRLFFMYTTSSILGPLQISMGQMLQDFGKFLGMFLLVLFSFTIGLTQLYDKGYTSKEQKDCVGIFCEQQSNDTFHSFIGTCFALFWYIFSLAHVAIFVTRFSYGEELQSFVGAVIVGTYNVVVVIVLTKLLVAMLHKSFQLIANHEDKEWKFARAKLWLSYFDDKCTLPPPFNIIPSPKTICYMISSLSKWVCSHTSKGKVRRQNSLKEWRNLKQKRDENYQKVMCCLVHRYLTSMRQKMQSTDQATVENLNELRQDLSKFRNEIRDLLGFRTSKYAMFYPKN |
| 1547 | sp|Q9ESN6|TRIM2\_MOUSE | MASEGASIPSPVVRQIDKQFLICSICLERYKNPKVLPCLHTFCERCLQNYIPAHSLTLSCPVCRQTSILPEKGVAALQNNFFITNLMDVLQRTPGSNGEDSSILETVTAVAAGKPLSCPNHDGNVMEFYCQSCETAMCRECTEGEHAEHPTVPLKDVVEQHKASLQVQLDAVNKRLPEIDSALQFISEIIHQLTNQKASIVDDIHSTFDELQKTLNVRKSVLLMELEVNYGLKHKVLQSQLDTLLQGQESIKSCSNFTAQALNHGTETEVLLVKKQMSEKLNELADQDFPLHPRENDQLDFIVETEGLKKSIHNLGTILTTNAVASETVATGEGLRQTIIGQPMSVTITTKDKDGELCKTGNAYLTAELSTPDGSVADGEILDNKNGTYEFLYTVQKEGDFTLSLRLYDQHIRGSPFKLKVIRSADVSPTTEGVKRRVKSPGSGHVKQKAVKRPASMYSTGKRKENPIEDDLIFRVGTKGRNKGEFTNLQGVAASTSGKILIADSNNQCVQIFSNDGQFKSRFGIRGRSPGQLQRPTGVAVHPSGDIIIADYDNKWVSIFSNDGKFKTKIGSGKLMGPKGVSVDRNGHIIVVDNKACCVFIFQPNGKIVTRFGSRGNGDRQFAGPHFAAVNSNNEIIITDFHNHSVKVFNQEGEFMLKFGSNGEGNGQFNAPTGVAVDSNGNIIVADWGNSRIQVFDGSGSFLSYINTSADPLYGPQGLALTSDGHVVVADSGNHCFKVYRYLQ |
| 1548 | sp|P40225|TPO\_HUMAN | MELTELLLVVMLLLTARLTLSSPAPPACDLRVLSKLLRDSHVLHSRLSQCPEVHPLPTPVLLPAVDFSLGEWKTQMEETKAQDILGAVTLLLEGVMAARGQLGPTCLSSLLGQLSGQVRLLLGALQSLLGTQLPPQGRTTAHKDPNAIFLSFQHLLRGKVRFLMLVGGSTLCVRRAPPTTAVPSRTSLVLTLNELPNRTSGLLETNFTASARTTGSGLLKWQQGFRAKIPGLLNQTSRSLDQIPGYLNRIHELLNGTRGLFPGPSRRTLGAPDISSGTSDTGSLPPNLQPGYSPSPTHPPTGQYTLFPLPPTLPTPVVQLHPLLPDPSAPTPTPTSPLLNTSYTHSQNLSQEG |
| 1549 | sp|Q9D658|TP4A3\_MOUSE | MARMNRPAPVEVSYRHMRFLITHNPSNATLSTFIEDLKKYGATTVVRVCEVTYDKTPLEKDGITVVDWPFDDGAPPPGKVVEDWLSLLKAKFYNDPGSCVAVHCVAGLGRAPVLVALALIESGMKYEDAIQFIRQKRRGAINSKQLTYLEKYRPKQRLRFKDPHTHKTRCCVM |
| 1550 | sp|P40226|TPO\_MOUSE | MELTDLLLAAMLLAVARLTLSSPVAPACDPRLLNKLLRDSHLLHSRLSQCPDVDPLSIPVLLPAVDFSLGEWKTQTEQSKAQDILGAVSLLLEGVMAARGQLEPSCLSSLLGQLSGQVRLLLGALQGLLGTQLPLQGRTTAHKDPNALFLSLQQLLRGKVRFLLLVEGPTLCVRRTLPTTAVPSSTSQLLTLNKFPNRTSGLLETNFSVTARTAGPGLLSRLQGFRVKITPGQLNQTSRSPVQISGYLNRTHGPVNGTHGLFAGTSLQTLEASDISPGAFNKGSLAFNLQGGLPPSPSLAPDGHTPFPPSPALPTTHGSPPQLHPLFPDPSTTMPNSTAPHPVTMYPHPRNLSQET |
| 1551 | sp|Q8CH72|TRI32\_MOUSE | MAAAAAASHLNLDALREVLECPICMESFTEEQLRPKLLHCGHTICRQCLEKLLASSINGVRCPFCSKITRITSLTQLTDNLTVLKIIDTAGLSEAVGLLMCRGCGRRLPRQFCRSCGVVLCEPCREADHQPPGHCTLPVKEAAEERRRDFGEKLTRLRELTGELQRRKAALEGVSRDLQARYKAVLQEYGHEERRIQEELARSRKFFTGSLAEVEKSNSQVVEEQSYLLNIAEVQAVSRCDYFLAKIKQADVALLEETADEEEPELTASLPRELTLQDVELLKVGHVGPLQIGQAVKKPRTVNMEDSWAGEEGAASSASASVTFREMDMSPEEVAPSPRASPAKQRSSEAASGIQQCLFLKKMGAKGSTPGMFNLPVSLYVTSQSEVLVADRGNYRIQVFNRKGFLKEIRRSPSGIDSFVLSFLGADLPNLTPLSVAMNCHGLIGVTDSYDNSLKVYTMDGHCVACHRSQLSKPWGITALPSGQFVVTDVEGGKLWCFTVDRGAGVVKYSCLCSAVRPKFVTCDAEGTVYFTQGLGLNVENRQNEHHLEGGFSIGSVGPDGQLGRQISHFFSENEDFRCIAGMCVDARGDLIVADSSRKEILHFPKGGGYSVLIREGLTCPVGIALTPKGQLLVLDCWDHCVKIYSYHLRRYSTP |
| 1552 | sp|Q2T9J0|TYSD1\_HUMAN | MRRQWGSAMRAAEQAGCMVSASRAGQPEAGPWSCSGVILSRSPGLVLCHGGIFVPFLRAGSEVLTAAGAVFLPGDSCRDDLRLHVQWAPTAAGPGGGAERGRPGLCTPQCASLEPGPPAPSRGRPLQPRLPAELLLLLSCPAFWAHFARLFGDEAAEQWRFSSAARDDEVSEDEEADQLRALGWFALLGVRLGQEEVEEERGPAMAVSPLGAVPKGAPLLVCGSPFGAFCPDIFLNTLSCGVLSNVAGPLLLTDARCLPGTEGGGVFTARPAGALVALVVAPLCWKAGEWVGFTLLCAAAPLFRAARDALHRLPHSTAALAALLPPEVGVPWGLPLRDSGPLWAAAAVLVECGTVWGSGVAVAPRLVVTCRHVSPREAARVLVRSTTPKSVAIWGRVVFATQETCPYDIAVVSLEEDLDDVPIPVPAEHFHEGEAVSVVGFGVFGQSCGPSVTSGILSAVVQVNGTPVMLQTTCAVHSGSSGGPLFSNHSGNLLGIITSNTRDNNTGATYPHLNFSIPITVLQPALQQYSQTQDLGGLRELDRAAEPVRVVWRLQRPLAEAPRSKL |
| 1553 | sp|Q9GZX9|TWSG1\_HUMAN | MKLHYVAVLTLAILMFLTWLPESLSCNKALCASDVSKCLIQELCQCRPGEGNCSCCKECMLCLGALWDECCDCVGMCNPRNYSDTPPTSKSTVEELHEPIPSLFRALTEGDTQLNWNIVSFPVAEELSHHENLVSFLETVNQPHHQNVSVPSNNVHAPYSSDKEHMCTVVYFDDCMSIHQCKISCESMGASKYRWFHNACCECIGPECIDYGSKTVKCMNCMF |
| 1554 | sp|Q99MV2|TX19A\_MOUSE | MCPPVSVRHGARGMSCLYEAWLYHLVHGEQTKICFACFKAAFLLNKLYLEMGDWQEEEEEEEEEDADLLEYLSESESESEQEPGPEQDAWRGLGSLYVPQSVSEGSGVLLPTPVWTQGILFSIFVPTELFPQEAVPLDLGPEDAEWTQALPWRLDGLFPCSHQLIPPLTWWDIFDVMPSPGQPVLLELRCHWPLDQTVAQSWLQDQKFVLLLDSVQSRCHLLSMRVRWVVRTQVQHWQVLLDPGEMWVAHFRKEVGQHGLYHQSLNPWRLSILTASELGMELLPATCYLWNKGFWVGSFLPWHINMPETWSWEPGERLFITDATICGTDYHLAQSFLDSHPTPHPLLTLTP |
| 1555 | sp|Q7M764|U17PE\_MOUSE | MVVSLSFPEETGGENLPSAPLEDSSKFFEEVFGDMVFARSFPEADPALSSPDAPELHQDEAQVVEELTTNGKHSLSWESPQGPGCGLQNTGNSCYLNAALQCLTHTPPLADYMLSQEHSQTCCSPEGCKMCAMEAHVTQSLLHSHSGDVMKPSQILTSAFHKHQQEDAHEFLMFTLETMHESCLQVHRQSDPTPQDTSPIHDIFGGWWRSQIKCLHCQGTSHTFDPFLDVPLDISSAQSVNQALWDTGKSEELLGENAYYCGRCRQKMPASKTLHVHIAPKVLLLVLKRFSAFTGNKLDRKVSYPEFLDLKPYLSEPTGGPLPYALYAVLVHDGATSNSGHYFCCVKAGHGKWYKMDDTKVTRCDVTSVLNENAYVLFYVQQTDLKQVSIDMPEGRVHEVLDPKYQLKKSRRKKRKKQCHCTDDAGEACENREKRAKKETSLGEGKVPQEVNHEKAGQKHGNTKLVPQEQNHQRAGQNLRNTEVELDLPVDAIVIHQPRSTANWGTDAPDKENQPWHNGDRLLTSQGLMSPGQLCSQGGR |
| 1556 | sp|Q08960|TYW1\_YEAST | MDGFRVAGALVVGALTAAYLYFGGRFSIALVIIVGYGIYCNEASGGSQDSQEKLDLNKQQKKPCCSDKKIADGGKKTGGCCSDKKNGGGKGGGCCSSKGGKKGGCCSSKGGKKGGCCSSKKNIGDNENTATEVEKAVNYPVTVDFTEVFRKPTKKRSSTPKVFSKNSSSNSRVGKKLSVSKKIGPDGLIKSALTISNETLLSSQIYVLYSSLQGAASKAAKSVYDKLKELDELTNEPKLLNLDDLSDFDDYFINVPVENALYVLVLPSYDIDCPLDYFLQTLEENANDFRVDSFPLRKLVGYTVLGLGDSESWPEKFCYQAKRADHWISRLGGRRIFPLGKVCMKTGGSAKIDEWTSLLAETLKDDEPIIYEYDENADSEEDEEEGNGSDELGDVEDIGGKGSNGKFSGADEIKQMVAKDSPTYKNLTKQGYKVIGSHSGVKICRWTKNELRGKGSCYKKSLFNIASSRCMELTPSLACSSKCVFCWRHGTNPVSKNWRWEVDEPEYILENALKGHYSMIKQMRGVPGVIAERFAKAFEVRHCALSLVGEPILYPHINKFIQLLHQKGITSFLVCNAQHPEALRNIVKVTQLYVSIDAPTKTELKKVDRPLYKDFWERMVECLEILKTVQNHQRTVFRLTLVKGFNMGDVSAYADLVQRGLPGFIEVKGATFSGSSDGNGNPLTMQNIPFYEECVKFVKAFTTELQRRGLHYDLAAEHAHSNCLLIADTKFKINGEWHTHIDFDKFFVLLNSGKDFTYMDYLEKTPEWALFGNGGFAPGNTRVYRKDKKKQNKENQETTTRETPLPPIPA |
| 1557 | sp|P91938|TRXR1\_DROME | MNLCNSRFSVTFVRQCSTILTSPSAGIIQNRGSLTTKVPHWISSSLSCAHHTFQRTMNLTGQRGSRDSTGATGGNAPAGSGAGAPPPFQHPHCDRAAMYAQPVRKMSTKGGSYDYDLIVIGGGSAGLACAKEAVLNGARVACLDFVKPTPTLGTKWGVGGTCVNVGCIPKKLMHQASLLGEAVHEAAAYGWNVDEKIKPDWHKLVQSVQNHIKSVNWVTRVDLRDKKVEYINGLGSFVDSHTLLAKLKSGERTITAQTFVIAVGGRPRYPDIPGAVEYGITSDDLFSLDREPGKTLVVGAGYIGLECAGFLKGLGYEPTVMVRSIVLRGFDQQMAELVAASMEERGIPFLRKTVPLSVEKQDDGKLLVKYKNVETGEEAEDVYDTVLWAIGRKGLVDDLNLPNAGVTVQKDKIPVDSQEATNVANIYAVGDIIYGKPELTPVAVLAGRLLARRLYGGSTQRMDYKDVATTVFTPLEYACVGLSEEDAVKQFGADEIEVFHGYYKPTEFFIPQKSVRYCYLKAVAERHGDQRVYGLHYIGPVAGEVIQGFAAALKSGLTINTLINTVGIHPTTAEEFTRLAITKRSGLDPTPASCCS |
| 1558 | sp|Q99MD6|TRXR3\_MOUSE | MEKPPSPPPPPRAQTSPGLGKVGVLPNRRLGAVRGGLMSSPPGRRARLASPGTSRPSSEAREELRRRLRDLIEGNRVMIFSKSYCPHSTRVKELFSSLGVVYNILELDQVDDGASVQEVLTEISNQKTVPNIFVNKVHVGGCDRTFQAHQNGLLQKLLQDDSAHDYDLIIIGGGSGGLSCAKEAANLGKKVMVLDFVVPSPQGTTWGLGGTCVNVGCIPKKLMHQAALLGHALQDAKKYGWEYNQQVKHNWEAMTEAIQSHIGSLNWGYRVTLREKGVTYVNSFGEFVDLHKIKATNKKGQETFYTASKFVIATGERPRYLGIQGDKEYCITSDDLFSLPYCPGCTLVVGASYVGLECAGFLAGLGLDVTVMVRSVLLRGFDQEMAEKVGSYLEQQGVKFQRKFTPILVQQLEKGLPGKLKVVAKSTEGPETVEGIYNTVLLAIGRDSCTRKIGLEKIGVKINEKNGKIPVNDVEQTNVPHVYAIGDILDGKPELTPVAIQAGKLLARRLFGVSLEKCDYINIPTTVFTPLEYGCCGLSEEKAIEMYKKENLEVYHTLFWPLEWTVAGRDNNTCYAKIICNKFDNERVVGFHLLGPNAGEITQGFAAAMKCGLTKQLLDDTIGIHPTCGEVFTTLEITKSSGLDITQKGCUG |
| 1559 | sp|Q92574|TSC1\_HUMAN | MAQQANVGELLAMLDSPMLGVRDDVTAVFKENLNSDRGPMLVNTLVDYYLETSSQPALHILTTLQEPHDKHLLDRINEYVGKAATRLSILSLLGHVIRLQPSWKHKLSQAPLLPSLLKCLKMDTDVVVLTTGVLVLITMLPMIPQSGKQHLLDFFDIFGRLSSWCLKKPGHVAEVYLVHLHASVYALFHRLYGMYPCNFVSFLRSHYSMKENLETFEEVVKPMMEHVRIHPELVTGSKDHELDPRRWKRLETHDVVIECAKISLDPTEASYEDGYSVSHQISARFPHRSADVTTSPYADTQNSYGCATSTPYSTSRLMLLNMPGQLPQTLSSPSTRLITEPPQATLWSPSMVCGMTTPPTSPGNVPPDLSHPYSKVFGTTAGGKGTPLGTPATSPPPAPLCHSDDYVHISLPQATVTPPRKEERMDSARPCLHRQHHLLNDRGSEEPPGSKGSVTLSDLPGFLGDLASEEDSIEKDKEEAAISRELSEITTAEAEPVVPRGGFDSPFYRDSLPGSQRKTHSAASSSQGASVNPEPLHSSLDKLGPDTPKQAFTPIDLPCGSADESPAGDRECQTSLETSIFTPSPCKIPPPTRVGFGSGQPPPYDHLFEVALPKTAHHFVIRKTEELLKKAKGNTEEDGVPSTSPMEVLDRLIQQGADAHSKELNKLPLPSKSVDWTHFGGSPPSDEIRTLRDQLLLLHNQLLYERFKRQQHALRNRRLLRKVIKAAALEEHNAAMKDQLKLQEKDIQMWKVSLQKEQARYNQLQEQRDTMVTKLHSQIRQLQHDREEFYNQSQELQTKLEDCRNMIAELRIELKKANNKVCHTELLLSQVSQKLSNSESVQQQMEFLNRQLLVLGEVNELYLEQLQNKHSDTTKEVEMMKAAYRKELEKNRSHVLQQTQRLDTSQKRILELESHLAKKDHLLLEQKKYLEDVKLQARGQLQAAESRYEAQKRITQVFELEILDLYGRLEKDGLLKKLEEEKAEAAEAAEERLDCCNDGCSDSMVGHNEEASGHNGETKTPRPSSARGSSGSRGGGGSSSSSSELSTPEKPPHQRAGPFSSRWETTMGEASASIPTTVGSLPSSKSFLGMKARELFRNKSESQCDEDGMTSSLSESLKTELGKDLGVEAKIPLNLDGPHPSPPTPDSVGQLHIMDYNETHHEHS |
| 1560 | sp|Q8TAM2|TTC8\_HUMAN | MSSEMEPLLLAWSYFRRRKFQLCADLCTQMLEKSPYDQEPDPELPVHQAAWILKARALTEMVYIDEIDVDQEGIAEMMLDENAIAQVPRPGTSLKLPGTNQTGGPSQAVRPITQAGRPITGFLRPSTQSGRPGTMEQAIRTPRTAYTARPITSSSGRFVRLGTASMLTSPDGPFINLSRLNLTKYSQKPKLAKALFEYIFHHENDVKTIHLEDVVLHLGIYPFLLRNKNHIEKNALDLAALSTEHSQYKDWWWKVQIGKCYYRLGMYREAEKQFKSALKQQEMVDTFLYLAKVYVSLDQPVTALNLFKQGLDKFPGEVTLLCGIARIYEEMNNMSSAAEYYKEVLKQDNTHVEAIACIGSNHFYSDQPEIALRFYRRLLQMGIYNGQLFNNLGLCCFYAQQYDMTLTSFERALSLAENEEEAADVWYNLGHVAVGIGDTNLAHQCFRLALVNNNNHAEAYNNLAVLEMRKGHVEQARALLQTASSLAPHMYEPHFNFATISDKIGDLQRSYVAAQKSEAAFPDHVDTQHLIKQLRQHFAML |
| 1561 | sp|Q55FT4|TSUA\_DICDI | MDDDYKLIGQIGEGSFGKVYKYRKKFTGQLVACKVISKKGKNEEDILSLRQEIDILKNLSHPNIIQFISCFENKNEFTLVTEYADGDLSQIISEEKTLSVDLIQSICYQLVIALNYLHYKKVIHRDIKPQNILITSGGQIKVCDFGFAKTISSNSILLTSLKGTPLYLAPEIIQEQPYDYKADLWSLGIILYQILVGSPPFSANSLADLVHMTLESNIEIPKELNKYPDLVSLFRQLLCKNPDKRIGWPDLLYHPFVKSYNGAHVINNNNLNYNNNNNNNNNNNNNNNNGNRPITSAGGNYLNDNSSSPSISSPIQSLPLISADSLINSLNNNINNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNGNINTNGYYQPLQSPTSQNFVNGIPIPILNGISNPFSVYNNNNNMNNNNNNKFNPTSPKHHQTLQQQQQQQQQQQQQQQQQQQQQQQQQQQQQQQQQQQQQIPPPQSPKTPKVLSPKAVGISIQQQQQQQSQQQQMQQQQQQQQQQQQQQQQQQIPPQSPKVPQSPRVAPPPQSPRVLSSPRIAHSPKNSPRQTNPTSPSPSPRRNSLKSQQTPSLTNLNQALVNPSSSSSSLNSSIPTSSSTNKQIPPLSSNLNQVNLSNNINDNNNIINNNSNNNSNNINNNINNNNNNNSNNINNNINNNINNINNNNNNNSNINNINNINNNNNINSSNNNSSNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNIINSSNNNINNINNSNNNINNSNNNININNSNNNINGNRPTSGGNNDLILNNMLMNNISLSSSIESIASNNNSILVQQQLQQQQQQIQQQQQQIQLLQQQQQIQIQQQQQIQQQQQLQIQLMQQQQQLNIIQQQNSVVQNGMVVSVLNKKAPPTPITRPQTPTSFRPQTPQYRTCTPRTPQPINTPASRNNFQSNVLPSWPNLYYQQLNVNDPHQLQQLQQQQQQLQLQQQQQQQQQQQLPLSSSQQQIHYYNQMNHNGNSQNERLDEISEASESLESLEFWRFHESISFKSEENASKLRSDKQFLHKIISHLSASSFSMIERLPIGLILRTFSNIMKYGTLTIQSSNNTTLQSTRTPPQTPPLYPSFNNNGNNSNNNNNSNNSGGGNNSSEIYKFSNFQILVNVLSNILATTLHITNGNGNSGIIGSTSSNGMVLLNNPYTNLLDCLNTITMFLETFQPSLSVLFNVNGLNERHGSSSTPNQSSPCPTSPNGGSSNISINNINGGKRIHSQPQQSNQTQQINTQLMFLSILNHLTKNIFIYNQGIQIAVIKIISRLFSRLGENPYLFGEIYRKIIEQTDILQNICSYFLLLLNQSYQSSSSSTISNTSSLSSSSTSPPTSSSSSTSSSTTTPLSSSTTTAATATATTSAATTSTATNSSQQQQQQPIPSSIEVEVEIVLQCFHNILYTSPQHAFEFPLEPKRNYQTNTSIQTYLMNYYQACVIIGDGLSSEIIINLLLCSISSYPHLRKIILQLSLHCLRGSKLFAESISKEEKSLIYPINQNNNNNNNNNNNNQNKNNNNSNSNPSTPNLQFQNSYNSPYNTINNNKPRSFFDYLSIKNINQSNNNNNNNNNNNNNNNNNNNNNLNTESTIEFNQEQKSLVLLILSAILIHSKESIDWMIHYDLVDLSIRYFQNTDIRISSSASYFLSGFLTVSINYEKEFDNFNNNLNNSNNNLIRPTSPNSNNLIINGTNSLIDNQLTIIIDSIIQVIPIKNIRKLFSAKRVEGNTMRDLEGGCFGKPNIGMLDGVVCILLRMLKRGGQEFLETMLESGIWEALCHQISSTTSEIELSPHGIIHSLRVIYEVLSSDTDHIPYLVKNNLLTSLCNLLDSGHLERIKEWPSLQMGSVSGISALANQIFFILYLPLSSNAKDRIGDPMIELIRHIMLAQELVRNIIMLLPQIPSDSIDLPLGLLSNIILEDSKFANQFIEFGGLEPNTAQLILNPDRISPSTLVDSLIIFSQLARISQDNYKAMHRSDLYGLLKKLLAHPEATVRAKTCNLIGNMFKYNGYFYQHFQKSGILPILISRCIDVDLNTRKFACFALGNAAFHSSDLYDELDDSIPILKKLLNNEYPFSGQQQQQQSQQQQQSQQQQQNDLLLQIEEDEKTRSNVIGALGNLVRNSSQLCQKMIDSGILDALTSYLDEYKSHTNILKSVLFSLGNFSVYEQCRYILIEDYDLDSTLDDLFEYLKQNQQQIDPTIIKYINRIKKILRSPST |
| 1562 | sp|Q9NUW8|TYDP1\_HUMAN | MSQEGDYGRWTISSSDESEEEKPKPDKPSTSSLLCARQGAANEPRYTCSEAQKAAHKRKISPVKFSNTDSVLPPKRQKSGSQEDLGWCLSSSDDELQPEMPQKQAEKVVIKKEKDISAPNDGTAQRTENHGAPACHRLKEEEDEYETSGEGQDIWDMLDKGNPFQFYLTRVSGVKPKYNSGALHIKDILSPLFGTLVSSAQFNYCFDVDWLVKQYPPEFRKKPILLVHGDKREAKAHLHAQAKPYENISLCQAKLDIAFGTHHTKMMLLLYEEGLRVVIHTSNLIHADWHQKTQGIWLSPLYPRIADGTHKSGESPTHFKADLISYLMAYNAPSLKEWIDVIHKHDLSETNVYLIGSTPGRFQGSQKDNWGHFRLKKLLKDHASSMPNAESWPVVGQFSSVGSLGADESKWLCSEFKESMLTLGKESKTPGKSSVPLYLIYPSVENVRTSLEGYPAGGSLPYSIQTAEKQNWLHSYFHKWSAETSGRSNAMPHIKTYMRPSPDFSKIAWFLVTSANLSKAAWGALEKNGTQLMIRSYELGVLFLPSAFGLDSFKVKQKFFAGSQEPMATFPVPYDLPPELYGSKDRPWIWNIPYVKAPDTHGNMWVPS |
| 1563 | sp|Q6ZVT0|TTL10\_HUMAN | MDHSCTRFIHRRGPPTRTRAGFKRGKRPRIQQRPRARVSGTIPASRLHPAPASQPGPCPAPGHCPVGPAHERPMGSSQEEGLRCQPSQPDHDADGHCGPDLEGAERASATPGPPGLLNSHRPADSDDTNAAGPSAALLEGLLLGGGKPSPHSTRPGPFFYIGGSNGATIISSYCKSKGWQRIHDSRRDDYTLKWCEVKSRDSYGSFREGEQLLYQLPNNKLLTTKIGLLSTLRGRARAMSKASKVPGGVQARLEKDAAAPALEDLPWTSPGYLRPQRVLRMEEFFPETYRLDLKHEREAFFTLFDETQIWICKPTASNQGKGIFLLRNQEEVAALQAKTRSMEDDPIHHKTPFRGPQARVVQRYIQNPLLVDGRKFDVRSYLLIACTTPYMIFFGHGYARLTLSLYDPHSSDLGGHLTNQFMQKKSPLYMLLKEHTVWSMEHLNRYISDTFWKARGLAKDWVFTTLKKRMQQIMAHCFLAAKPKLDCKLGYFDLIGCDFLIDDNFKVWLLEMNSNPALHTNCEVLKEVIPGVVIETLDLVLETFRKSLRGQKMLPLLSQRRFVLLHNGEADPRPHLGGSCSLRRWPPLPTRQAKSSGPPMPHAPDQPGARRPAPPPLVPQRPRPPGPDLDSAHDGEPQAPGTEQSGTGNRHPAQEPSPGTAKEEREEPENARP |
| 1564 | sp|P63072|UBD\_MOUSE | MASVRTCVVRSDQWRLMTFETTENDKVKKINEHIRSQTKVSVQDQILLLDSKILKPHRKLSSYGIDKETTIHLTLKVVKPSDEELPLFLVESKNEGQRHLLRVRRSSSVAQVKEMIESVTSVIPKKQVVNCNGKKLEDGKIMADYNIKSGSLLFLTTHCTGG |
| 1565 | sp|Q8R5H1|UBP15\_MOUSE | MAEGGAADLDTQRSDIATLLKTSLRKGDTWYLVDSRWFKQWKKYVGFDSWDKYQMGDQNVYPGPIDNSGLLKDGDAQSLKEHLIDELDYILLPTEGWNKLVSWYTLMEGQEPIARKVVEQGMFVKHCKVEVYLTELKLCENGNMNNVVTRRFSKADTIDTIEKEIRKIFNIPDEKEARLWNKYMSNTFEPLNKPDSTIQDAGLYQGQVLVIEQKNEDGTWPRGPSTPKSPGASNFSTLPKISPSSLSNNYNNINNRNVKNSNYCLPSYTAYKNYDYSEPGRNNEQPGLCGLSNLGNTCFMNSAIQCLSNTPPLTEYFLNDKYQEELNFDNPLGMRGEIAKSYAELIKQMWSGKFSYVTPRAFKTQVGRFAPQFSGYQQQDCQELLAFLLDGLHEDLNRIRKKPYIQLKDADGRPDKVVAEEAWENHLKRNDSIIVDIFHGLFKSTLVCPECAKISVTFDPFCYLTLPLPMKKERSLEVYLVRMDPLAKPMQYKVIVPKIGNILDLCTALSALSGVPADKMIVTDIYNHRFHRIFAVDENLSSIMERDDIYVFEININRAEDTEHVVIPVCLREKFRHSSYTHHTGSSLFGQPFLMAIPRNNTEDKLYNLLLLRMCRYVKMSTETEETDGHLRCCEDQNINGNGPNGLHEEGSPSEMETDEPDDESSQDQELPSENENSQSEDSVGGDNDSENGLCTEETCKGQLTGHKKRLFTFQFNNLGNNDINYIKDDTSHIRFDDRQLRLDERSFLALDWDPDLKKRYFDENAAEDFEKHESVEYKPPKRPFVKLKDCIELFTTKEKLGAEDPWYCPNCKEHQQATKKLDLWSLPPVLVVHLKRFSYSRYMRDKLDTLVDFPISDLDMSEFLINPNAGPCRYNLIAVSNHYGGMGGGHYTAFAKNKDDGKWYYFDDSSVSTASEDQIVSKAAYVLFYQRQDTFSGTGFFPLDRETKGASAATGIPLESDEDSNDNDNDLENENCMHTN |
| 1566 | sp|O75317|UBP12\_HUMAN | MEILMTVSKFASICTMGANASALEKEIGPEQFPVNEHYFGLVNFGNTCYCNSVLQALYFCRPFREKVLAYKSQPRKKESLLTCLADLFHSIATQKKKVGVIPPKKFITRLRKENELFDNYMQQDAHEFLNYLLNTIADILQEERKQEKQNGRLPNGNIDNENNNSTPDPTWVHEIFQGTLTNETRCLTCETISSKDEDFLDLSVDVEQNTSITHCLRGFSNTETLCSEYKYYCEECRSKQEAHKRMKVKKLPMILALHLKRFKYMDQLHRYTKLSYRVVFPLELRLFNTSGDATNPDRMYDLVAVVVHCGSGPNRGHYIAIVKSHDFWLLFDDDIVEKIDAQAIEEFYGLTSDISKNSESGYILFYQSRD |
| 1567 | sp|E7EZF3|UHRF1\_DANRE | MWIQVRTMDGKETHRVDSLSKLTKVDELRVKIAELFNVEPERQRLFYRGKQMEDGHTIFDYNVGLNDIVQLLVRQAVAATVLPKDKEAELSDSDSGCGSAQSESDKGSTHGESDVQSAGASGQTDTADLIDPGFGFYKINEFVDARDLNMGAWFEAQIVKVTKTPAEDGGAEDIVYHVKYEDYPENGVVQLRGKDVRPRARTVYQWHQLEPGMIVMVNYNPDDPKERGYWYDAEIQRKRETRTQREVFGKILLGDAGDSLNDCRIMFVTEIYKIEEPGSAEGPGASSDSPLKKGSNGPECKVCKDDPKKNCRVCNCHVCGIKQDPDKQLLCDECDMAFHTYCLNPPLTTIPDDEDWYCPDCRNDASEVVLAGEKLKESKKKAKMASASSSSQRDWGKGMACVGRTKQCTIVPSNHYGPVPGVPVGTLWKFRVQVSESGVHRPHVAGIHGRSNDGAYSLVLAGGYEDDVDDGNEFTYTGSGGRDLSGNKRTAEQSCDQKLTNMNRALALNCNAAVNDKEGAEAKDWKAGKPVRVVRSSKGRKHSKYSPEDGNRYDGIYKVVKYWPEKGKSGFLVWRYLLKRNDEESAPWTRDGKERIKKLGLTMQYPEGYLEAVAAKEKEKENKNEDDIEETPTKGKRKRKSQSMEEKSSPTKGTPKKMKVEAYKLSKEQKALIKDDELNKKLWDEAMESLSLGPRFVNKVEEVFLCICCQEVVYQPITTECQHNVCRECLQRSFKAKVYTCPACRHDLGKNYQMAVNKPLQAILTQLFPGYSSGRC |
| 1568 | sp|P34711|UNC17\_CAEEL | MGFNVPVINRDSEILKADAKKWLEQQDNQKKCVLVIVSIALLLDNMLYMVIVPIIPKYLRDIHNYQVTFEGYHNETSQLANGTYLVREVGGRINFLDEELELGWLFASKALLQIFVNPFSGYIIDRVGYEIPMILGLCTMFFSTAIFALGKSYGVLLFARSLQGFGSAFADTSGLAMIADRFTEENERSAALGIALAFISFGCLVAPPFGSVLYSLAGKPVPFLILSFVCLADAIAVFMVINPHRRGTDSHGEKVQGTPMWRLFMDPFIACCSGALIMANVSLAFLEPTITTWMSEMMPDTPGWLVGVIWLPPFFPHVLGVYVTVKMLRAFPHHTWAIAMVGLAMEGIACFAIPYTTSVMQLVIPLSFVCFGIALIDTSLLPMLGHLVDTRHVSVYGSVYAIADISYSLAYAFGPIIAGWIVTNWGFTALNIIIFATNVTYAPVLFLLRKVHSYDTLGAKGDTAEMTQLNSSAPAGGYNGKPEATTAESYQGWEDQQSYQNQAQIPNHAVSFQDSRPQAEFPAGYDPLNPQW |
| 1569 | sp|Q5VY80|ULBP6\_HUMAN | MAAAAIPALLLCLPLLFLLFGWSRARRDDPHSLCYDITVIPKFRPGPRWCAVQGQVDEKTFLHYDCGNKTVTPVSPLGKKLNVTMAWKAQNPVLREVVDILTEQLLDIQLENYTPKEPLTLQARMSCEQKAEGHSSGSWQFSIDGQTFLLFDSEKRMWTTVHPGARKMKEKWENDKDVAMSFHYISMGDCIGWLEDFLMGMDSTLEPSAGAPLAMSSGTTQLRATATTLILCCLLIILPCFILPGI |
| 1570 | sp|O75795|UDB17\_HUMAN | MSLKWMSVFLLMQLSCYFSSGSCGKVLVWPTEYSHWINMKTILEELVQRGHEVIVLTSSASILVNASKSSAIKLEVYPTSLTKNDLEDFFMKMFDRWTYSISKNTFWSYFSQLQELCWEYSDYNIKLCEDAVLNKKLMRKLQESKFDVLLADAVNPCGELLAELLNIPFLYSLRFSVGYTVEKNGGGFLFPPSYVPVVMSELSDQMIFMERIKNMIYMLYFDFWFQAYDLKKWDQFYSEVLGRPTTLFETMGKAEMWLIRTYWDFEFPRPFLPNVDFVGGLHCKPAKPLPKEMEEFVQSSGENGIVVFSLGSMISNMSEESANMIASALAQIPQKVLWRFDGKKPNTLGSNTRLYKWLPQNDLLGHPKTKAFITHGGTNGIYEAIYHGIPMVGIPLFADQHDNIAHMKAKGAALSVDIRTMSSRDLLNALKSVINDPIYKENIMKLSRIHHDQPVKPLDRAVFWIEFVMRHKGAKHLRVAAHNLTWIQYHSLDVIAFLLACVATMIFMITKCCLFCFRKLAKTGKKKKRD |
| 1571 | sp|Q62789|UD2B7\_RAT | MPQKWISALLLLQISFCFRSGNCGKVLVWPLEYSHWMNLKIILDELVQRGHEVTVLRPSSSVSLDPKKASGLVYETSPTTSNNDEVEKSFYPVGDMWTYDVPKYTCLRYYPSLNKMFGQFSDLWLQLCREVVSNKELIAKLKESQFDVVLSDAVGPCGELIAEILQLPFVYSLRFATAPGIEKYSAGQPFPPSYVPIILSGFSGQMTFMERVENMLCLLYFDSWFESFPAKDWDPFFSEILGRPTTMVDTMKKAEIWLIRSYWDLEFPRPSLPNIEFVGGLHCQPAKPLPKEMEDFAQSSGEHGVWVFSLGSMIRNITQERANTIASALAQIPQKVFWRFEGKKPDTLGPNTRVFKWIPQNDLLGHPKTKAFVTHGGANGIYESIHYGIPPMVGIPLFAEQRDNVAHMVAKGAAVSIDFHTMSSSDLLNALKAVINNPSYKKKVMWLSAIHHDQPLKPLDRAVFWIEFVMRHKGAKHLRPLAHNLALVSVHSLDVIGFLLACVLAIVLLAVKCCLFLYRFFVKVAKNKRD |
| 1572 | sp|P55916|UCP3\_HUMAN | MVGLKPSDVPPTMAVKFLGAGTAACFADLVTFPLDTAKVRLQIQGENQAVQTARLVQYRGVLGTILTMVRTEGPCSPYNGLVAGLQRQMSFASIRIGLYDSVKQVYTPKGADNSSLTTRILAGCTTGAMAVTCAQPTDVVKVRFQASIHLGPSRSDRKYSGTMDAYRTIAREEGVRGLWKGTLPNIMRNAIVNCAEVVTYDILKEKLLDYHLLTDNFPCHFVSAFGAGFCATVVASPVDVVKTRYMNSPPGQYFSPLDCMIKMVAQEGPTAFYKGFTPSFLRLGSWNVVMFVTYEQLKRALMKVQMLRESPF |
| 1573 | sp|Q9Y6N9|USH1C\_HUMAN | MDRKVAREFRHKVDFLIENDAEKDYLYDVLRMYHQTMDVAVLVGDLKLVINEPSRLPLFDAIRPLIPLKHQVEYDQLTPRRSRKLKEVRLDRLHPEGLGLSVRGGLEFGCGLFISHLIKGGQADSVGLQVGDEIVRINGYSISSCTHEEVINLIRTKKTVSIKVRHIGLIPVKSSPDEPLTWQYVDQFVSESGGVRGSLGSPGNRENKEKKVFISLVGSRGLGCSISSGPIQKPGIFISHVKPGSLSAEVGLEIGDQIVEVNGVDFSNLDHKEAVNVLKSSRSLTISIVAAAGRELFMTDRERLAEARQRELQRQELLMQKRLAMESNKILQEQQEMERQRRKEIAQKAAEENERYRKEMEQIVEEEEKFKKQWEEDWGSKEQLLLPKTITAEVHPVPLRKPKYDQGVEPELEPADDLDGGTEEQGEQDFRKYEEGFDPYSMFTPEQIMGKDVRLLRIKKEGSLDLALEGGVDSPIGKVVVSAVYERGAAERHGGIVKGDEIMAINGKIVTDYTLAEAEAALQKAWNQGGDWIDLVVAVCPPKEYDDELTFF |
| 1574 | sp|Q12220|UTP12\_YEAST | MVKSYQRFEQAAAFGVIASNANCVWIPASSGNSNGSGPGQLITSALEDVNIWDIKTGDLVSKLSDGLPPGASDARGAKPAECTYLEAHKDTDLLAVGYADGVIKVWDLMSKTVLLNFNGHKAAITLLQFDGTGTRLISGSKDSNIIVWDLVGEVGLYKLRSHKDSITGFWCQGEDWLISTSKDGMIKLWDLKTHQCIETHIAHTGECWGLAVKDDLLITTGTDSQVKIWKLDIENDKMGGKLTEMGIFEKQSKQRGLKIEFITNSSDKTSFFYIQNADKTIETFRIRKEEEIARGLKKREKRLKEKGLTEEEIAKSIKESYSSFILHPFQTIRSLYKIKSASWTTVSSSKLELVLTTSSNTIEYYSIPYEKRDPTSPAPLKTHTIELQGQRTDVRSIDISDDNKLLATASNGSLKIWNIKTHKCIRTFECGYALTCKFLPGGLLVILGTRNGELQLFDLASSSLLDTIEDAHDAAIWSLDLTSDGKRLVTGSADKTVKFWDFKVENSLVPGTKNKFLPVLKLHHDTTLELTDDILCVRVSPDDRYLAISLLDNTVKVFFLDSMKFYLSLYGHKLPVLSIDISFDSKMIITSSADKNIKIWGLDFGDCHKSLFAHQDSIMNVKFLPQSHNFFSCSKDAVVKYWDGEKFECIQKLYAHQSEVWALAVATDGGFVVSSSHDHSIRIWEETEDQVFLEEEKEKELEEQYEDTLLTSLEEGNGDDAFKADASGEGVEDEASGVHKQTLESLKAGERLMEALDLGIAEIEGLEAYNRDMKLWQRKKLGEAPIKPQGNAVLIAVNKTPEQYIMDTLLRIRMSQLEDALMVMPFSYVLKFLKFIDTVMQNKTLLHSHLPLICKNLFFIIKFNHKELVSQKNEELKLQINRVKTELRSALKSTEDDLGFNVQGLKFVKQQWNLRHNYEFVDEYDQQEKESNSARKRVFGTVI |
| 1575 | sp|P04633|UCP1\_RAT | MVSSTTSEVQPTMGVKIFSAGVSACLADIITFPLDTAKVRLQIQGEGQASSTIRYKGVLGTITTLAKTEGLPKLYSGLPAGIQRQISFASLRIGLYDTVQEYFSSGRETPASLGSKISAGLMTGGVAVFIGQPTEVVKVRMQAQSHLHGIKPRYTGTYNAYRVIATTESLSTLWKGTTPNLMRNVIINCTELVTYDLMKGALVNHHILADDVPCHLLSALVAGFCTTLLASPVDVVKTRFINSLPGQYPSVPSCAMTMYTKEGPAAFFKGFAPSFLRLGSWNVIMFVCFEQLKKELMKSRQTVDCTT |
| 1576 | sp|Q7Z6J8|UBE3D\_HUMAN | MAASAAETRVFLEVRGQLQSALLILGEPKEGGMPMNISIMPSSLQMKTPEGCTEIQLPAEVRLVPSSCRGLQFVVGDGLHLRLQTQAKLGTKLISMFNQSSQTQECCTFYCQSCGEVIIKDRKLLRVLPLPSENWGALVGEWCCHPDPFANKSLHPQENDCFIGDSFFLVNLRTSLWQQRPELSPVEMCCVSSDNHCKLEPKANTKVICKRCKVMLGETVSSETTKFYMTEIIIQSSERSFPIIPRSWFVQSVIAQCLVQLSSARSTFRFTIQGQDDKVYILLWLLNSDSLVIESLRNSKYIKKFPLLENTFKADSSSAWSAVKVLYQPCIKSRNEKLVSLWESDISVHPLTLPSATCLELLLILSKSNANLPSSLRRVNSFQVAFLKM |
| 1577 | sp|Q6WKZ8|UBR2\_MOUSE | MASEMEPEVQAIDRSLLECSAEEIAGRWLQATDLNREVYQHLAHCVPKIYCRGPNPFPQKEDTLAQHILLGPMEWYICAEDPALGFPKLEQANKPSHLCGRVFKVGEPTYSCRDCAVDPTCVLCMECFLGSIHRDHRYRMTTSGGGGFCDCGDTEAWKEGPYCQKHKLSSSEVVEEEDPLVHLSEDVIARTYNIFAIMFRYAVDILTWEKESELPEDLEVAEKSDTYYCMLFNDEVHTYEQVIYTLQKAVNCTQKEAIGFATTVDRDGRRSVRYGDFQYCDQAKTVIVRNTSRQTKPLKVQVMHSSVAAHQNFGLKALSWLGSVIGYSDGLRRILCQVGLQEGPDGENSSLVDRLMLNDSKLWKGARSVYHQLFMSSLLMDLKYKKLFALRFAKNYRQLQRDFMEDDHERAVSVTALSVQFFTAPTLARMLLTEENLMTVIIKAFMDHLKHRDAQGRFQFERYTALQAFKFRRVQSLILDLKYVLISKPTEWSDELRQKFLQGFDAFLELLKCMQGMDPITRQVGQHIEMEPEWEAAFTLQMKLTHVISMVQDWCALDEKVLIEAYKKCLAVLTQCHGGFTDGEQPITLSICGHSVETIRYCVSQEKVSIHLPISRLLAGLHVLLSKSEVAYKFPELLPLSELSPPMLIEHPLRCLVLCAQVHAGMWRRNGFSLVNQIYYYHNVKCRREMFDKDIVMLQTGVSMMDPNHFLMIMLSRFELYQLFSTPDYGKRFSSEVTHKDVVQQNNTLIEEMLYLIIMLVGERFNPGVGQVAATDEIKREIIHQLSIKPMAHSELVKSLPEDENKETGMESVIESVAHFKKPGLTGRGMYELKPECAKEFNLYFYHFSRAEQSKAEEAQRKLKRENKEDTALPPPALPPFCPLFASLVNILQCDVMLYIMGTILQWAVEHHGSAWSESMLQRVLHLIGMALQEEKHHLENAVEGHVQTFTFTQKISKPGDAPHNSPSILAMLETLQNAPSLEAHKDMIRWLLKMFNAIKKIRECSSSSPVAEAEGTIMEESSRDKDKAERKRKAEIARLRREKIMAQMSEMQRHFIDENKELFQQTLELDTSASATLDSSPPVSDAALTALGPAQTQVPEPRQFVTCILCQEEQEVTVGSRAMVLAAFVQRSTVLSKDRTKTIADPEKYDPLFMHPDLSCGTHTGSCGHVMHAHCWQRYFDSVQAKEQRRQQRLRLHTSYDVENGEFLCPLCECLSNTVIPLLLPPRSILSRRLNFSDQPDLAQWTRAVTQQIKVVQMLRRKHNAADTSSSEDTEAMNIIPIPEGFRPDFYPRNPYSDSIKEMLTTFGTAAYKVGLKVHPNEGDPRVPILCWGTCAYTIQSIERILSDEEKPVFGPLPCRLDDCLRSLTRFAAAHWTVALLPVVQGHFCKLFASLVPSDSYEDLPCILDIDMFHLLVGLVLAFPALQCQDFSGSSLATGDLHIFHLVTMAHIVQILLTSCTEENGMDQENPTGEEELAILSLHKTLHQYTGSALKEAPSGWHLWRSVRAAIMPFLKCSALFFHYLNGVPAPPDLQVSGTSHFEHLCNYLSLPTNLIHLFQENSDIMNSLIESWCQNSEVKRYLNGERGAISYPRGANKLIDLPEDYSSLINQASNFSCPKSGGDKSRAPTLCLVCGSLLCSQSYCCQAELEGEDVGACTAHTYSCGSGAGIFLRVRECQVLFLAGKTKGCFYSPPYLDDYGETDQGLRRGNPLHLCQERFRKIQKLWQQHSITEEIGHAQEANQTLVGIDWQHL |
| 1578 | sp|Q9W3M3|UBR3\_DROME | MDEDDNLSNADISIDDEEVVREQTHHPPMQEDQELDNEDGSSDVDLSSVYVVPPIVSAPSPASVRIAGGSTIGGGGVAAGAVPTTTDNSHSPFHDWDSSVAAAAAPPPPPPRTGPTTTTSSGTAAESGAASALSDDAGAKPSFFFGASSFSLRSRKEVAALINTECCRGSPTPDLDSIMDTLFNPGTPIDNLDNIEWIRWLIAGGRTPQEFVKIVRSYDNHAKCGLVWVPHVVAYRCRTCGISPCMSICRDCFKKGNHTNHDFNMFLSQAGGACDCGDTSVMKAEGFCSDHGINNRVNRDPVPNNLLAVAEAIMPKLLFRLLQHFREHSDTPLEVQAITSYSCEEFANMLIDLNNMGEIMRKVMTRTLINPEVYAFFMEAPCQDTRNGRFLKANREKYEDAVNRFPNPEPPDEYRDLPALGDKLVHTTLLEEFIFWTFKFEFPQTLVCFLLNMLPDQDYKEHLTRTFVMHYSRIPSVLEMSRDPDTLSNRVVHMSVQLFSNESLALKMVNELSLLHVMIISLKLMMSKILIQNTLHDPNKNFHFVIDCTRQVMKDHCYWPLVSDFNNVLSHESVALVFLRDDNLIDMWFQFLQMLQGMNVNVRETASHVEFEPNSYYAAFSCELEASAYPMWSIISHLQDGTHAHLAKKIINYCVTTLHEWLDSIYFMEARLSMEEMMQASFHFPLHRYLAAFVCQAVTKMGISLNDVLPSRPYLLPLLMIHPLRVQSFFYEILAGKWVRNGLQIKGQAMTYIQANFCNSMADMDLFFLQICATNLPQYFFLQNTIELFDVGQWLETAPLKQPQKAEQSSMLEGFLTFLATLVTSRTNLGNDEATQCIIEISALLATENKTHSQLLELMPERSGNVHTKNFETFLKKLSVYKAPSSGSENLEQGLFTPIDEVWEKHYDPLHVLLRAVHRRDFQSSLDRFTNYVKSKDKMPASGNLWPPFRLPHALPATSSFSDPCKILNSRIFHSTILSIFFRAVHTRDVSEHLLALAVFLLEIAVETSDDVGSGTGDRAPPALAAVVESSSGPGYHGYGTGRHEPPKLFHCYPTDNLSCNLRHVVKKVSLKSRDPQVITSSYRSNPFYSDLDFEVEADPEQSMRMIGQGDPEGDEATGGAGLGMGAHSRRNVSQALVPMRVPGMEVALPPDLSVVAETGVVIRQDSNEDDLLREGNHAMDMSPPAALDFHFPLQQITLPESGMEVAIRRDLLLAETNNMGAIAGGAGGGANASATPPAGASNEMFSPTTPTGSGMLLPFQRVQPVAVPSSGNMDIVPSNAMGAGGSFTSGVSGSGTGRRMNYETGGARKRSVDIAIGGSNKDELHLDESILSLLLKLHSQLSGTLDSFSLSDGEDQSSDDDSTMDVDCNEASTSMAAAESTALAERGRSKRNYKNIHVSSSRIGDGPFFIGNLLRKIAKQDEQCAQSIDDIRARLWPNQREKQAEAKAREAKEKEERRKKARERQQKMMQDFANKQKLFMQSAAASSSGMGYGPEDEDDEELYEEQPREKEYDCIICNCTTPSTESNPIGLVVLVESSGIVGHRRRIAERLPLPINAEDESRLAHTTRLAAEFNRRTELLSLKFGDESWYLSNNMAYDNGVHVQSCGHHVHLSCLEAYLKTLYTTQRQPVQDRGEFYCPVCRQLSNSVLPLSPQLDRPTHLVRSGNQPFERLVADLTDLIKENETIPQPTKLTEAMGHAMEVMTNIAQRKVKCSSITFRKLFIFVTSIARTNLEAEIIQRGGSLCTANATRYKPKRECIVPLLHVLSVHVRVLVEWPLWSSWASLAGLPVTATEPLPAHCLELIPSILADPIALLLKFILLAPLQLDQDYFTCMVKVMYNLLYYQIVVQLCVTLTDLECDHIVKVYGSTSVGSDNSAAESQQQESAAGTTNNRRRAGQQQQSSSQLGKAMALVLSQTNDLVHLRRDCIPSTSSSAAASAAGSSSTTSTNHGASAATASSATTIEVNLKSMELQLQALCLPFLRVAALLRQHLYRHEMPEISAPGLEFVRLVYYLELVTDSMDWDCFNASKGLCFIPGTETTLPQFWCQQLMEVRPPADTVRELVLINQHSLWQQPRLLELPREYERLFTYYHERPCLNCYKVPKESSICLLCGTIVCLKQNCCAENDCCEAVRHTLSCGGGIGIFLVVTSTYIIVIRGRRACLWGSLYLDDFDEEDRDLKRGKPLYLSKDRFNLLESQWLSHKFAHTKHTWVFHRDLL |
| 1579 | sp|Q70EL2|UBP45\_HUMAN | MRVKDPTKALPEKAKRSKRPTVPHDEDSSDDIAVGLTCQHVSHAISVNHVKRAIAENLWSVCSECLKERRFYDGQLVLTSDIWLCLKCGFQGCGKNSESQHSLKHFKSSRTEPHCIIINLSTWIIWCYECDEKLSTHCNKKVLAQIVDFLQKHASKTQTSAFSRIMKLCEEKCETDEIQKGGKCRNLSVRGITNLGNTCFFNAVMQNLAQTYTLTDLMNEIKESSTKLKIFPSSDSQLDPLVVELSRPGPLTSALFLFLHSMKETEKGPLSPKVLFNQLCQKAPRFKDFQQQDSQELLHYLLDAVRTEETKRIQASILKAFNNPTTKTADDETRKKVKAYGKEGVKMNFIDRIFIGELTSTVMCEECANISTVKDPFIDISLPIIEERVSKPLLWGRMNKYRSLRETDHDRYSGNVTIENIHQPRAAKKHSSSKDKSQLIHDRKCIRKLSSGETVTYQKNENLEMNGDSLMFASLMNSESRLNESPTDDSEKEASHSESNVDADSEPSESESASKQTGLFRSSSGSGVQPDGPLYPLSAGKLLYTKETDSGDKEMAEAISELRLSSTVTGDQDFDRENQPLNISNNLCFLEGKHLRSYSPQNAFQTLSQSYITTSKECSIQSCLYQFTSMELLMGNNKLLCENCTKNKQKYQEETSFAEKKVEGVYTNARKQLLISAVPAVLILHLKRFHQAGLSLRKVNRHVDFPLMLDLAPFCSATCKNASVGDKVLYGLYGIVEHSGSMREGHYTAYVKVRTPSRKLSEHNTKKKNVPGLKAADNESAGQWVHVSDTYLQVVPESRALSAQAYLLFYERVL |
| 1580 | sp|Q9H832|UBE2Z\_HUMAN | MAESPTEEAATAGAGAAGPGASSVAGVVGVSGSGGGFGPPFLPDVWAAAAAAGGAGGPGSGLAPLPGLPPSAAAHGAALLSHWDPTLSSDWDGERTAPQCLLRIKRDIMSIYKEPPPGMFVVPDTVDMTKIHALITGPFDTPYEGGFFLFVFRCPPDYPIHPPRVKLMTTGNNTVRFNPNFYRNGKVCLSILGTWTGPAWSPAQSISSVLISIQSLMTENPYHNEPGFEQERHPGDSKNYNECIRHETIRVAVCDMMEGKCPCPEPLRGVMEKSFLEYYDFYEVACKDRLHLQGQTMQDPFGEKRGHFDYQSLLMRLGLIRQKVLERLHNENAEMDSDSSSSGTETDLHGSLRV |
| 1581 | sp|Q9H269|VPS16\_HUMAN | MDCYTANWNPLGDSAFYRKYELYSMDWDLKEELRDCLVAAAPYGGPIALLRNPWRKEKAASVRPVLDIYSASGMPLASLLWKSGPVVSLGWSAEEELLCVQEDGAVLVYGLHGDFRRHFSMGNEVLQNRVLDARIFHTEFGSGVAILTGAHRFTLSANVGDLKLRRMPEVPGLQSAPSCWTVLCQDRVAHILLAVGPDLYLLDHAACSAVTPPGLAPGVSSFLQMAVSFTYRHLALFTDTGYIWMGTASLKEKLCEFNCNIRAPPKQMVWCSRPRSKERAVVVAWERRLMVVGDAPESIQFVLDEDSYLVPELDGVRIFSRSTHEFLHEVPAASEEIFKIASMAPGALLLEAQKEYEKESQKADEYLREIQELGQLTQAVQQCIEAAGHEHQPDMQKSLLRAASFGKCFLDRFPPDSFVHMCQDLRVLNAVRDYHIGIPLTYSQYKQLTIQVLLDRLVLRRLYPLAIQICEYLRLPEVQGVSRILAHWACYKVQQKDVSDEDVARAINQKLGDTPGVSYSDIAARAYGCGRTELAIKLLEYEPRSGEQVPLLLKMKRSKLALSKAIESGDTDLVFTVLLHLKNELNRGDFFMTLRNQPMALSLYRQFCKHQELETLKDLYNQDDNHQELGSFHIRASYAAEERIEGRVAALQTAADAFYKAKNEFAAKATEDQMRLLRLQRRLEDELGGQFLDLSLHDTVTTLILGGHNKRAEQLARDFRIPDKRLWWLKLTALADLEDWEELEKFSKSKKSPIGYLPFVEICMKQHNKYEAKKYASRVGPEQKVKALLLVGDVAQAADVAIEHRNEAELSLVLSHCTGATDGATADKIQRARAQAQKK |
| 1582 | sp|Q92331|VPS5\_YEAST | MDYEDNLEAPVWDELNHEGDKTQSLVSNSIESIGQISTNEERKDNELLETTASFADKIDLDSAPEWKDPGLSVAGNPQLEEHDNSKADDLINSLAPEQDPIADLKNSTTQFIATRESGGALFTGNANSPLVFDDTIYDANTSPNTSKSISGRRSGKPRILFDSARAQRNSKRNHSLKAKRTTASDDTIKTPFTDPLKKAEKENEFVEEPLDDRNERRENNEGKFTASVEKNILEQVDRPLYNLPQTGANISSPAEVEENSEKFGKTKIGSKVPPTEKAVAFKVEVKDPVKVGELTSIHVEYTVISESSLLELKYAQVSRRYRDFRWLYRQLQNNHWGKVIPPPPEKQSVGSFKENFIENRRFQMESMLKKICQDPVLQKDKDFLLFLTSDDFSSESKKRAFLTGSGAINDSNDLSEVRISEIQLLGAEDAAEVLKNGGIDAESHKGFMSISFSSLPKYNEADEFFIEKKQKIDELEDNLKKLSKSLEMVDTSRNTLAASTEEFSSMVETLASLNVSEPNSELLNNFADVHKSIKSSLERSSLQETLTMGVMLDDYIRSLASVKAIFNQRSKLGYFLVVIENDMNKKHSQLGKLGQNIHSEKFREMRKEFQTLERRYNLTKKQWQAVGDKIKDEFQGFSTDKIREFRNGMEISLEAAIESQKECIELWETFYQTNL |
| 1583 | sp|P22203|VATE\_YEAST | MSSAITALTPNQVNDELNKMQAFIRKEAEEKAKEIQLKADQEYEIEKTNIVRNETNNIDGNFKSKLKKAMLSQQITKSTIANKMRLKVLSAREQSLDGIFEETKEKLSGIANNRDEYKPILQSLIVEALLKLLEPKAIVKALERDVDLIESMKDDIMREYGEKAQRAPLEEIVISNDYLNKDLVSGGVVVSNASDKIEINNTLEERLKLLSEEALPAIRLELYGPSKTRKFFD |
| 1584 | sp|P27870|VAV\_MOUSE | MELWRQCTHWLIQCRVLPPSHRVTWEGAQVCELAQALRDGVLLCQLLNNLLPQAINLREVNLRPQMSQFLCLKNIRTFLSTCCEKFGLKRSELFEAFDLFDVQDFGKVIYTLSALSWTPIAQNKGIMPFPTEDSALNDEDIYSGLSDQIDDTAEEDEDLYDCVENEEAEGDEIYEDLMRLESVPTPPKMTEYDKRCCCLREIQQTEEKYTDTLGSIQQHFMKPLQRFLKPQDMETIFVNIEELFSVHTHFLKELKDALAGPGATTLYQVFIKYKERFLVYGRYCSQVESASKHLDQVATAREDVQMKLEECSQRANNGRFTLRDLLMVPMQRVLKYHLLLQELVKHTQDATEKENLRLALDAMRDLAQCVNEVKRDNETLRQITNFQLSIENLDQSLANYGRPKIDGELKITSVERRSKTDRYAFLLDKALLICKRRGDSYDLKASVNLHSFQVRDDSSGERDNKKWSHMFLLIEDQGAQGYELFFKTRELKKKWMEQFEMAISNIYPENATANGHDFQMFSFEETTSCKACQMLLRGTFYQGYRCYRCRAPAHKECLGRVPPCGRHGQDFAGTMKKDKLHRRAQDKKRNELGLPKMEVFQEYYGIPPPPGAFGPFLRLNPGDIVELTKAEAEHNWWEGRNTATNEVGWFPCNRVHPYVHGPPQDLSVHLWYAGPMERAGAEGILTNRSDGTYLVRQRVKDTAEFAISIKYNVEVKHIKIMTSEGLYRITEKKAFRGLLELVEFYQQNSLKDCFKSLDTTLQFPYKEPERRAISKPPAGSTKYFGTAKARYDFCARDRSELSLKEGDIIKILNKKGQQGWWRGEIYGRIGWFPSNYVEEDYSEYC |
| 1585 | sp|P05919|VPU\_HV1H2 | QPIPIVAIVALVVAIIIAIVVWSIVIIEYRKILRQRKIDRLIDRLIERAEDSGNESEGEISALVEMGVEMGHHAPWDVDDL |
| 1586 | sp|P62068|UBP46\_HUMAN | MTVRNIASICNMGTNASALEKDIGPEQFPINEHYFGLVNFGNTCYCNSVLQALYFCRPFRENVLAYKAQQKKKENLLTCLADLFHSIATQKKKVGVIPPKKFISRLRKENDLFDNYMQQDAHEFLNYLLNTIADILQEEKKQEKQNGKLKNGNMNEPAENNKPELTWVHEIFQGTLTNETRCLNCETVSSKDEDFLDLSVDVEQNTSITHCLRDFSNTETLCSEQKYYCETCCSKQEAQKRMRVKKLPMILALHLKRFKYMEQLHRYTKLSYRVVFPLELRLFNTSSDAVNLDRMYDLVAVVVHCGSGPNRGHYITIVKSHGFWLLFDDDIVEKIDAQAIEEFYGLTSDISKNSESGYILFYQSRE |
| 1587 | sp|Q70CQ2|UBP34\_HUMAN | MCENCADLVEVLNEISDVEGGDGLQLRKEHTLKIFTYINSWTQRQCLCCFKEYKHLEIFNQVVCALINLVIAQVQVLRDQLCKHCTTINIDSTWQDESNQAEEPLNIDRECNEGSTERQKSIEKKSNSTRICNLTEEESSKSSDPFSLWSTDEKEKLLLCVAKIFQIQFPLYTAYKHNTHPTIEDISTQESNILGAFCDMNDVEVPLHLLRYVCLFCGKNGLSLMKDCFEYGTPETLPFLIAHAFITVVSNIRIWLHIPAVMQHIIPFRTYVIRYLCKLSDQELRQSAARNMADLMWSTVKEPLDTTLCFDKESLDLAFKYFMSPTLTMRLAGLSQITNQLHTFNDVCNNESLVSDTETSIAKELADWLISNNVVEHIFGPNLHIEIIKQCQVILNFLAAEGRLSTQHIDCIWAAAQLKHCSRYIHDLFPSLIKNLDPVPLRHLLNLVSALEPSVHTEQTLYLASMLIKALWNNALAAKAQLSKQSSFASLLNTNIPIGNKKEEEELRRTAPSPWSPAASPQSSDNSDTHQSGGSDIEMDEQLINRTKHVQQRLSDTEESMQGSSDETANSGEDGSSGPGSSSGHSDGSSNEVNSSHASQSAGSPGSEVQSEDIADIEALKEEDEDDDHGHNPPKSSCGTDLRNRKLESQAGICLGDSQGMSERNGTSSGTGKDLVFNTESLPSVDNRMRMLDACSHSEDPEHDISGEMNATHIAQGSQESCITRTGDFLGETIGNELFNCRQFIGPQHHHHHHHHHHHHDGHMVDDMLSADDVSCSSSQVSAKSEKNMADFDGEESGCEEELVQINSHAELTSHLQQHLPNLASIYHEHLSQGPVVHKHQFNSNAVTDINLDNVCKKGNTLLWDIVQDEDAVNLSEGLINEAEKLLCSLVCWFTDRQIRMRFIEGCLENLGNNRSVVISLRLLPKLFGTFQQFGSSYDTHWITMWAEKELNMMKLFFDNLVYYIQTVREGRQKHALYSHSAEVQVRLQFLTCVFSTLGSPDHFRLSLEQVDILWHCLVEDSECYDDALHWFLNQVRSKDQHAMGMETYKHLFLEKMPQLKPETISMTGLNLFQHLCNLARLATSAYDGCSNSELCGMDQFWGIALRAQSGDVSRAAIQYINSYYINGKTGLEKEQEFISKCMESLMIASSSLEQESHSSLMVIERGLLMLKTHLEAFRRRFAYHLRQWQIEGTGISSHLKALSDKQSLPLRVVCQPAGLPDKMTIEMYPSDQVADLRAEVTHWYENLQKEQINQQAQLQEFGQSNRKGEFPGGLMGPVRMISSGHELTTDYDEKALHELGFKDMQMVFVSLGAPRRERKGEGVQLPASCLPPPQKDNIPMLLLLQEPHLTTLFDLLEMLASFKPPSGKVAVDDSESLRCEELHLHAENLSRRVWELLMLLPTCPNMLMAFQNISDEQSNDGFNWKELLKIKSAHKLLYALEIIEALGKPNRRIRRESTGSYSDLYPDSDDSSEDQVENSKNSWSCKFVAAGGLQQLLEIFNSGILEPKEQESWTVWQLDCLACLLKLICQFAVDPSDLDLAYHDVFAWSGIAESHRKRTWPGKSRKAAGDHAKGLHIPRLTEVFLVLVQGTSLIQRLMSVAYTYDNLAPRVLKAQSDHRSRHEVSHYSMWLLVSWAHCCSLVKSSLADSDHLQDWLKKLTLLIPETAVRHESCSGLYKLSLSGLDGGDSINRSFLLLAASTLLKFLPDAQALKPIRIDDYEEEPILKPGCKEYFWLLCKLVDNIHIKDASQTTLLDLDALARHLADCIRSREILDHQDGNVEDDGLTGLLRLATSVVKHKPPFKFSREGQEFLRDIFNLLFLLPSLKDRQQPKCKSHSSRAAAYDLLVEMVKGSVENYRLIHNWVMAQHMQSHAPYKWDYWPHEDVRAECRFVGLTNLGATCYLASTIQQLYMIPEARQAVFTAKYSEDMKHKTTLLELQKMFTYLMESECKAYNPRPFCKTYTMDKQPLNTGEQKDMTEFFTDLITKIEEMSPELKNTVKSLFGGVITNNVVSLDCEHVSQTAEEFYTVRCQVADMKNIYESLDEVTIKDTLEGDNMYTCSHCGKKVRAEKRACFKKLPRILSFNTMRYTFNMVTMMKEKVNTHFSFPLRLDMTPYTEDFLMGKSERKEGFKEVSDHSKDSESYEYDLIGVTVHTGTADGGHYYSFIRDIVNPHAYKNNKWYLFNDAEVKPFDSAQLASECFGGEMTTKTYDSVTDKFMDFSFEKTHSAYMLFYKRMEPEEENGREYKFDVSSELLEWIWHDNMQFLQDKNIFEHTYFGFMWQLCSCIPSTLPDPKAVSLMTAKLSTSFVLETFIHSKEKPTMLQWIELLTKQFNNSQAACEWFLDRMADDDWWPMQILIKCPNQIVRQMFQRLCIHVIQRLRPVHAHLYLQPGMEDGSDDMDTSVEDIGGRSCVTRFVRTLLLIMEHGVKPHSKHLTEYFAFLYEFAKMGEEESQFLLSLQAISTMVHFYMGTKGPENPQVEVLSEEEGEEEEEEEDILSLAEEKYRPAALEKMIALVALLVEQSRSERHLTLSQTDMAALTGGKGFPFLFQHIRDGINIRQTCNLIFSLCRYNNRLAEHIVSMLFTSIAKLTPEAANPFFKLLTMLMEFAGGPPGMPPFASYILQRIWEVIEYNPSQCLDWLAVQTPRNKLAHSWVLQNMENWVERFLLAHNYPRVRTSAAYLLVSLIPSNSFRQMFRSTRSLHIPTRDLPLSPDTTVVLHQVYNVLLGLLSRAKLYVDAAVHGTTKLVPYFSFMTYCLISKTEKLMFSTYFMDLWNLFQPKLSEPAIATNHNKQALLSFWYNVCADCPENIRLIVQNPVVTKNIAFNYILADHDDQDVVLFNRGMLPAYYGILRLCCEQSPAFTRQLASHQNIQWAFKNLTPHASQYPGAVEELFNLMQLFIAQRPDMREEELEDIKQFKKTTISCYLRCLDGRSCWTTLISAFRILLESDEDRLLVVFNRGLILMTESFNTLHMMYHEATACHVTGDLVELLSIFLSVLKSTRPYLQRKDVKQALIQWQERIEFAHKLLTLLNSYSPPELRNACIDVLKELVLLSPHDFLHTLVPFLQHNHCTYHHSNIPMSLGPYFPCRENIKLIGGKSNIRPPRPELNMCLLPTMVETSKGKDDVYDRMLLDYFFSYHQFIHLLCRVAINCEKFTETLVKLSVLVAYEGLPLHLALFPKLWTELCQTQSAMSKNCIKLLCEDPVFAEYIKCILMDERTFLNNNIVYTFMTHFLLKVQSQVFSEANCANLISTLITNLISQYQNLQSDFSNRVEISKASASLNGDLRALALLLSVHTPKQLNPALIPTLQELLSKCRTCLQQRNSLQEQEAKERKTKDDEGATPIKRRRVSSDEEHTVDSCISDMKTETREVLTPTSTSDNETRDSSIIDPGTEQDLPSPENSSVKEYRMEVPSSFSEDMSNIRSQHAEEQSNNGRYDDCKEFKDLHCSKDSTLAEEESEFPSTSISAVLSDLADLRSCDGQALPSQDPEVALSLSCGHSRGLFSHMQQHDILDTLCRTIESTIHVVTRISGKGNQAAS |
| 1588 | sp|P81401|VIP\_BOVIN | METRSKPQLLVFLTLFSVLFSQTLAWPLFGAPSALRMGDRIPFEGANEPDQVSLKADTDILQDALAENDTPYYDVSRNVRHADGVFTSDYSRLLGQLSAKKYLESLIGKRVSNSISEDQGPIKRHSDAVFTDNYTRLRKQMAVKKYLNSILNGKRSSEGESPDFLEELEK |
| 1589 | sp|P15692|VEGFA\_HUMAN | MNFLLSWVHWSLALLLYLHHAKWSQAAPMAEGGGQNHHEVVKFMDVYQRSYCHPIETLVDIFQEYPDEIEYIFKPSCVPLMRCGGCCNDEGLECVPTEESNITMQIMRIKPHQGQHIGEMSFLQHNKCECRPKKDRARQEKKSVRGKGKGQKRKRKKSRYKSWSVYVGARCCLMPWSLPGPHPCGPCSERRKHLFVQDPQTCKCSCKNTDSRCKARQLELNERTCRCDKPRR |
| 1590 | sp|P23642|VAN1\_YEAST | MGMFFNLRSNIKKKAMDNGLSLPISRNGSSNNIKDKRSEHNSNSLKGKYRYQPRSTPSKFQLTVSITSLIIIAVLSLYLFISFLSGMGIGVSTQNGRSLLGSSKSSENYKTIDLEDEEYYDYDFEDIDPEVISKFDDGVQHYLISQFGSEVLTPKDDEKYQRELNMLFDSTVEEYDLSNFEGAPNGLETRDHILLCIPLRNAADVLPLMFKHLMNLTYPHELIDLAFLVSDCSEGDTTLDALIAYSRHLQNGTLSQIFQEIDAVIDSQTKGTDKLYLKYMDEGYINRVHQAFSPPFHENYDKPFRSVQIFQKDFGQVIGQGFSDRHAVKVQGIRRKLMGRARNWLTANALKPYHSWVYWRDADVELCPGSVIQDLMSKNYDVIVPNVWRPLPTFLGTEQPYDLNSWMESQEALALAKTLDEDDVIVEGYAEYPTWRVHLAYIRDAEGDPNEAVDLDGVGGVSILAKAKIFRNGVQFPAFTFENHAETEAFGKMAKKMGYRVGGLPHYTIWHIYEPSDDDLKEIASREREKRRQSE |
| 1591 | sp|Q9BV40|VAMP8\_HUMAN | MEEASEGGGNDRVRNLQSEVEGVKNIMTQNVERILARGENLEHLRNKTEDLEATSEHFKTTSQKVARKFWWKNVKMIVLICVIVFIIILFIVLFATGAFS |
| 1592 | sp|Q00788|V2R\_RAT | MLLVSTVSAVPGLFSPPSSPSNSSQEELLDDRDPLLVRAELALLSTIFVAVALSNGLVLGALIRRGRRGRWAPMHVFISHLCLADLAVALFQVLPQLAWDATDRFHGPDALCRAVKYLQMVGMYASSYMILAMTLDRHRAICRPMLAYRHGGGARWNRPVLVAWAFSLLLSLPQLFIFAQRDVGNGSGVFDCWARFAEPWGLRAYVTWIALMVFVAPALGIAACQVLIFREIHASLVPGPSERAGRRRRGRRTGSPSEGAHVSAAMAKTVRMTLVIVIVYVLCWAPFFLVQLWAAWDPEAPLERPPFVLLMLLASLNSCTNPWIYASFSSSVSSELRSLLCCAQRHTTHSLGPQDESCATASSSLMKDTPS |
| 1593 | sp|P51612|XPC\_MOUSE | MAPKRTADGRRRKRGQKTEDNKVARHEESVADDFEDEKQKPRRKSSFPKVSQGKRKRGCSDPGDPTNGAAKKKVAKATAKSKNLKVLKEEALSDGDDFRDSPADCKKAKKHPKSKVVDQGTDEDDSEDDWEEVEELTEPVLDMGENSATSPSDMPVKAVEIEIETPQQAKERERSEKIKMEFETYLRRMMKRFNKEVQENMHKVHLLCLLASGFYRNSICRQPDLLAIGLSIIPIRFTKVPLQDRDAYYLSNLVKWFIGTFTVNADLSASEQDDLQTTLERRIAIYSARDNEELVHIFLLILRALQLLTRLVLSLQPIPLKSAVTKGRKSSKETSVEGPGGSSELSSNSPESHNKPTTSRRIKEEETLSEGRGKATARGKRGTGTAGSRQRRKPSCSEGEEAEQKVQGRPHARKRRVAAKVSYKEESESDGAGSGSDFEPSSGEGQHSSDEDCEPGPRKQKRASAPQRTKAGSKSASKTQRGSQCEPSSFPEASSSSSGCKRGKKVSSGAEEMADRKPAGVDQWLEVYCEPQAKWVCVDCVHGVVGQPVACYKYATKPMTYVVGIDSDGWVRDVTQRYDPAWMTATRKCRVDAEWWAETLRPYRSLLTEREKKEDQEFQAKHLDQPLPTSISTYKNHPLYALKRHLLKFQAIYPETAAVLGYCRGEAVYSRDCVHTLHSRDTWLKQARVVRLGEVPYKMVKGFSNRARKARLSEPQLHDHNDLGLYGHWQTEEYQPPIAVDGKVPRNEFGNVYLFLPSMMPVGCVQMTLPNLNRVARKLGIDCVQAITGFDFHGGYCHPVTDGYIVCEEFRDVLLAAWENEQAIIEKKEKEKKEKRALGNWKLLVRGLLIRERLKLRYGAKSEAAAPHAAGGGLSSDEEEGTSSQAEAARVLAASWPQNREDPEQKSEYTKMTRKRRAAEASHLFPFEKL |
| 1594 | sp|P51863|VA0D1\_MOUSE | MSFFPELYFNVDNGYLEGLVRGLKAGVLSQADYLNLVQCETLEDLKLHLQSTDYGNFLANEASPLTVSVIDDKLKEKMVVEFRHMRNHAYEPLASFLDFITYSYMIDNVILLITGTLHQRSIAELVPKCHPLGSFEQMEAVNIAQTPAELYNAILVDTPLAAFFQDCISEQDLDEMNIEIIRNTLYKAYLESFYKFCTLLGGTTADAMCPILEFEADRRAFIITINSFGTELSKEDRAKLFPHCGRLYPEGLAQLARADDYEQVKNVADYYPEYKLLFEGAGSNPGDKTLEDRFFEHEVKLNKLAFLNQFHFGVFYAFVKLKEQECRNIVWIAECIAQRHRAKIDNYIPIF |
| 1595 | sp|O14980|XPO1\_HUMAN | MPAIMTMLADHAARQLLDFSQKLDINLLDNVVNCLYHGEGAQQRMAQEVLTHLKEHPDAWTRVDTILEFSQNMNTKYYGLQILENVIKTRWKILPRNQCEGIKKYVVGLIIKTSSDPTCVEKEKVYIGKLNMILVQILKQEWPKHWPTFISDIVGASRTSESLCQNNMVILKLLSEEVFDFSSGQITQVKSKHLKDSMCNEFSQIFQLCQFVMENSQNAPLVHATLETLLRFLNWIPLGYIFETKLISTLIYKFLNVPMFRNVSLKCLTEIAGVSVSQYEEQFVTLFTLTMMQLKQMLPLNTNIRLAYSNGKDDEQNFIQNLSLFLCTFLKEHDQLIEKRLNLRETLMEALHYMLLVSEVEETEIFKICLEYWNHLAAELYRESPFSTSASPLLSGSQHFDVPPRRQLYLPMLFKVRLLMVSRMAKPEEVLVVENDQGEVVREFMKDTDSINLYKNMRETLVYLTHLDYVDTERIMTEKLHNQVNGTEWSWKNLNTLCWAIGSISGAMHEEDEKRFLVTVIKDLLGLCEQKRGKDNKAIIASNIMYIVGQYPRFLRAHWKFLKTVVNKLFEFMHETHDGVQDMACDTFIKIAQKCRRHFVQVQVGEVMPFIDEILNNINTIICDLQPQQVHTFYEAVGYMIGAQTDQTVQEHLIEKYMLLPNQVWDSIIQQATKNVDILKDPETVKQLGSILKTNVRACKAVGHPFVIQLGRIYLDMLNVYKCLSENISAAIQANGEMVTKQPLIRSMRTVKRETLKLISGWVSRSNDPQMVAENFVPPLLDAVLIDYQRNVPAAREPEVLSTMAIIVNKLGGHITAEIPQIFDAVFECTLNMINKDFEEYPEHRTNFFLLLQAVNSHCFPAFLAIPPTQFKLVLDSIIWAFKHTMRNVADTGLQILFTLLQNVAQEEAAAQSFYQTYFCDILQHIFSVVTDTSHTAGLTMHASILAYMFNLVEEGKISTSLNPGNPVNNQIFLQEYVANLLKSAFPHLQDAQVKLFVTGLFSLNQDIPAFKEHLRDFLVQIKEFAGEDTSDLFLEEREIALRQADEEKHKRQMSVPGIFNPHEIPEEMCD |
| 1596 | sp|C8VSZ2|XANA\_EMENI | MPAITVKPLTPPAGSAIDFGAVITDVDLEHLTDGDFSTIRSALYTHLVVVLKNQHQLTPKAQYELTRRFDPSATQYGHGKTLDAKRSILHPDLKTIPHQPQVQVIGHGFIDSYEGLENITLKHPHHRTFHRDPIPQEDDYDSTRFYRWHIDAALYGLNPPIVTTLLAVKVPGGRRQTVRYDDGSGETMDVPLGTTAFASGERMFELLSEEDKEFALSSRVEYAPHPYIWMSPARSLPTGLGLHSDDLELPLSELPPIDESAIQILPMVWKNPATGKPALQIHPSAVRKIHCGDGTVIDDLKKVREIAYKLQRPAISPQYVYAHDWEEGDLVLFHNRGVLHSVVGAFGEGEVRLFRQCNLAAGEGVVPYRE |
| 1597 | sp|P24335|WAG13\_TROWA | SLGGKPDLRPCHPPCHYIPRPKPR |
| 1598 | sp|O43543|XRCC2\_HUMAN | MCSAFHRAESGTELLARLEGRSSLKEIEPNLFADEDSPVHGDILEFHGPEGTGKTEMLYHLTARCILPKSEGGLEVEVLFIDTDYHFDMLRLVTILEHRLSQSSEEIIKYCLGRFFLVYCSSSTHLLLTLYSLESMFCSHPSLCLLILDSLSAFYWIDRVNGGESVNLQESTLRKCSQCLEKLVNDYRLVLFATTQTIMQKASSSSEEPSHASRRLCDVDIDYRPYLCKAWQQLVKHRMFFSKQDDSQSSNQFSLVSRCLKSNSLKKHFFIIGESGVEFC |
| 1599 | sp|Q2M389|WASC4\_HUMAN | MAVETLSPDWEFDRVDDGSQKIHAEVQLKNYGKFLEEYTSQLRRIEDALDDSIGDVWDFNLDPIALKLLPYEQSSLLELIKTENKVLNKVITVYAALCCEIKKLKYEAETKFYNGLLFYGEGATDASMVEGDCQIQMGRFISFLQELSCFVTRCYEVVMNVVHQLAALYISNKIAPKIIETTGVHFQTMYEHLGELLTVLLTLDEIIDNHITLKDHWTMYKRLLKSVHHNPSKFGIQEEKLKPFEKFLLKLEGQLLDGMIFQACIEQQFDSLNGGVSVSKNSTFAEEFAHSIRSIFANVEAKLGEPSEIDQRDKYVGICGLFVLHFQIFRTIDKKFYKSLLDICKKVPAITLTANIIWFPDNFLIQKIPAAAKLLDRKSLQAIKIHRDTFLQQKAQSLTKDVQSYYVFVSSWMMKMESILSKEQRMDKFAEDLTNRCNVFIQGFLYAYSISTIIKTTMNLYMSMQKPMTKTSVKALCRLVELLKAIEHMFYRRSMVVADSVSHITQHLQHQALHSISVAKKRVISDKKYSEQRLDVLSALVLAENTLNGPSTKQRRLIVSLALSVGTQMKTFKDEELFPLQVVMKKLDLISELRERVQTQCDCCFLYWHRAVFPIYLDDVYENAVDAARLHYMFSALRDCVPAMMHARHLESYEILLDCYDKEIMEILNEHLLDKLCKEIEKDLRLSVHTHLKLDDRNPFKVGMKDLALFFSLNPIRFFNRFIDIRAYVTHYLDKTFYNLTTVALHDWATYSEMRNLATQRYGLVMTEAHLPSQTLEQGLDVLEIMRNIHIFVSRYLYNLNNQIFIERTSNNKHLNTINIRHIANSIRTHGTGIMNTTVNFTYQFLKKKFYIFSQFMYDEHIKSRLIKDIRFFREIKDQNDHKYPFDRAEKFNRGIRKLGVTPEGQSYLDQFRQLISQIGNAMGYVRMIRSGGLHCSSNAIRFVPDLEDIVNFEELVKEEGLAEETLKAARHLDSVLSDHTRNSAEGTEYFKMLVDVFAPEFRRPKNIHLRNFYIIVPPLTLNFVEHSISCKEKLNKKNKIGAAFTDDGFAMGVAYILKLLDQYREFDSLHWFQSVREKYLKEIRAVAKQQNVQSASQDEKLLQTMNLTQKRLDVYLQEFELLYFSLSSARIFFRADKTAAEENQEKKEKEEETKTSNGDLSDSTVSADPVVK |
| 1600 | sp|Q7Z5K2|WAPL\_HUMAN | MTSRFGKTYSRKGGNGSSKFDEVFSNKRTTLSTKWGETTFMAKLGQKRPNFKPDIQEIPKKPKVEEESTGDPFGFDSDDESLPVSSKNLAQVKCSSYSESSEAAQLEEVTSVLEANSKISHVVVEDTVVSDKCFPLEDTLLGKEKSTNRIVEDDASISSCNKLITSDKVENFHEEHEKNSHHIHKNADDSTKKPNAETTVASEIKETNDTWNSQFGKRPESPSEISPIKGSVRTGLFEWDNDFEDIRSEDCILSLDSDPLLEMKDDDFKNRLENLNEAIEEDIVQSVLRPTNCRTYCRANKTKSSQGASNFDKLMDGTSQALAKANSESSKDGLNQAKKGGVSCGTSFRGTVGRTRDYTVLHPSCLSVCNVTIQDTMERSMDEFTASTPADLGEAGRLRKKADIATSKTTTRFRPSNTKSKKDVKLEFFGFEDHETGGDEGGSGSSNYKIKYFGFDDLSESEDDEDDDCQVERKTSKKRTKTAPSPSLQPPPESNDNSQDSQSGTNNAENLDFTEDLPGVPESVKKPINKQGDKSKENTRKIFSGPKRSPTKAVYNARHWNHPDSEELPGPPVVKPQSVTVRLSSKEPNQKDDGVFKAPAPPSKVIKTVTIPTQPYQDIVTALKCRREDKELYTVVQHVKHFNDVVEFGENQEFTDDIEYLLSGLKSTQPLNTRCLSVISLATKCAMPSFRMHLRAHGMVAMVFKTLDDSQHHQNLSLCTAALMYILSRDRLNMDLDRASLDLMIRLLELEQDASSAKLLNEKDMNKIKEKIRRLCETVHNKHLDLENITTGHLAMETLLSLTSKRAGDWFKEELRLLGGLDHIVDKVKECVDHLSRDEDEEKLVASLWGAERCLRVLESVTVHNPENQSYLIAYKDSQLIVSSAKALQHCEELIQQYNRAEDSICLADSKPLPHQNVTNHVGKAVEDCMRAIIGVLLNLTNDNEWGSTKTGEQDGLIGTALNCVLQVPKYLPQEQRFDIRVLGLGLLINLVEYSARNRHCLVNMETSCSFDSSICSGEGDDSLRIGGQVHAVQALVQLFLERERAAQLAESKTDELIKDAPTTQHDKSGEWQETSGEIQWVSTEKTDGTEEKHKKEEEDEELDLNKALQHAGKHMEDCIVASYTALLLGCLCQESPINVTTVREYLPEGDFSIMTEMLKKFLSFMNLTCAVGTTGQKSISRVIEYLEHC |
| 1601 | sp|Q9BZH6|WDR11\_HUMAN | MLPYTVNFKVSARTLTGALNAHNKAAVDWGWQGLIAYGCHSLVVVIDSITAQTLQVLEKHKADVVKVKWARENYHHNIGSPYCLRLASADVNGKIIVWDVAAGVAQCEIQEHAKPIQDVQWLWNQDASRDLLLAIHPPNYIVLWNADTGTKLWKKSYADNILSFSFDPFDPSHLTLLTSEGIVFISDFSPSKPPSGPGKKVYISSPHSSPAHNKLATATGAKKALNKVKILITQEKPSAEFITLNDCLQLAYLPSKRNHMLLLYPREILILDLEVNQTVGVIAIERTGVPFLQVIPCFQRDGLFCLHENGCITLRVRRSYNNIFTTSNEEPDPDPVQELTYDLRSQCDAIRVTKTVRPFSMVCCPVNENAAALVVSDGRVMIWELKSAVCNRNSRNSSSGVSPLYSPVSFCGIPVGVLQNKLPDLSLDNMIGQSAIAGEEHPRGSILREVHLKFLLTGLLSGLPAPQFAIRMCPPLTTKNIKMYQPLLAVGTSNGSVLVYHLTSGLLHKELSIHSCEVKGIEWTSLTSFLSFATSTPNNMGLVRNELQLVDLPTGRSIAFRGERGNDESAIEMIKVSHLKQYLAVVFRDKPLELWDVRTCTLLREMSKNFPTITALEWSPSHNLKSLRKKQLATREAMARQTVVSDTELSIVESSVISLLQEAESKSELSQNISAREHFVFTDIDGQVYHLTVEGNSVKDSARIPPDGSMGSITCIAWKGDTLVLGDMDGNLNFWDLKGRVSRGIPTHRSWVRKIRFAPGKGNQKLIAMYNDGAEVWDTKEVQMVSSLRSGRNVTFRILDVDWCTSDKVILASDDGCIRVLEMSMKSACFRMDEQELTEPVWCPYLLVPRASLALKAFLLHQPWNGQYSLDISHVDYPENEEIKNLLQEQLNSLSNDIKKLLLDPEFTLLQRCLLVSRLYGDESELHFWTVAAHYLHSLSQEKSASTTAPKEAAPRDKLSNPLDICYDVLCENAYFQKFQLERVNLQEVKRSTYDHTRKCTDQLLLLGQTDRAVQLLLETSADNQHYYCDSLKACLVTTVTSSGPSQSTIKLVATNMIANGKLAEGVQLLCLIDKAADACRYLQTYGEWNRAAWLAKVRLNPEECADVLRRWVDHLCSPQVNQKSKALLVLLSLGCFFSVAETLHSMRYFDRAALFVEACLKYGAFEVTEDTEKLITAIYADYARSLKNLGFKQGAVLFASKAGAAGKDLLNELESPKEEPIEE |
| 1602 | sp|Q95107|WASL\_BOVIN | MSSGQQQPPPPRRVTNVGSLLLTPQENESLFTFLGKKCVTMSSAVVQLYAADRNCMWSKKCSGVACLVKDNPQRSYFLRIFDIKDGKLLWEQELYNNFVYNSPRGYFHTFAGDTCQVALNFANEEEAKKFRKAVTDLLGRRQRKSEKRRDPPNGPNLPMATVDIKNPEITTNRFYGPQINNISHTKEKKKGKAKKKRLTKADIGTPSNFQHIGHVGWDPNTGFDLNNLDPELKNLFDMCGISEAQLKDRETSKVIYDFIEKTGGVEAVKNELRRQAPPPPPPSRGGPPPPPPPPHSSGPPPPPARGRGAPPPPPSRAPTAAPPPPPPSRPGVGAPPPPPNRMYPPPLPALPSSAPSGPPPPPPPLSVSGSVAPPPPPPPPPPPGPPPPPGLPSDGDHQVPTPAGSKAALLDQIREGAQLKKVEQNSRPVSCSGRDALLDQIRQGIQLKSVTDAPESTPPAPAPTSGIVGALMEVMQKRSKAIHSSDEDEDEDDDEDFEDDDEWED |
| 1603 | sp|P51811|XK\_HUMAN | MKFPASVLASVFLFVAETTAALSLSSTYRSGGDRMWQALTLLFSLLPCALVQLTLLFVHRDLSRDRPLVLLLHLLQLGPLFRCFEVFCIYFQSGNNEEPYVSITKKRQMPKNGLSEEIEKEVGQAEGKLITHRSAFSRASVIQAFLGSAPQLTLQLYISVMQQDVTVGRSLLMTISLLSIVYGALRCNILAIKIKYDEYEVKVKPLAYVCIFLWRSFEIATRVVVLVLFTSVLKTWVVVIILINFFSFFLYPWILFWCSGSPFPENIEKALSRVGTTIVLCFLTLLYTGINMFCWSAVQLKIDSPDLISKSHNWYQLLVYYMIRFIENAILLLLWYLFKTDIYMYVCAPLLVLQLLIGYCTAILFMLVFYQFFHPCKKLFSSSVSEGFQRWLRCFCWACRQQKPCEPIGKEDLQSSRDRDETPSSSKTSPEPGQFLNAEDLCSA |
| 1604 | sp|Q923D5|WBP11\_MOUSE | MGRRSTSSTKSGKFMNPTDQARKEARKRELKKNKKQRMMVRAAVLKMKDPKQIIRDMEKLDEMEFNPVQQPQLNEKVLKDKRKKLRETFERILRLYEKENPDIYKELRKLEVEYEQKRAQLSQYFDAVKNAQHVEVESIPLPDMPHAPSNILIQDIPLPGAQPPSILKKTSAYGPPARAVSILPLLGHGVPRLPPGRKPPGPPPGPPPPQVLQMYGRKVGFALDLPPRRRDEDMLYSPELAQRGHDDDMSSTSEDDGYPEDMDQDKHDDSTEDSDTDRSDAESDGDEFGHREDSERDNTEEKKSGLSVRFADMPGKSRKKKKNMKELTPLQAMMLRMAGQEIPEEGREVEEFSEEEDADDSDDSEAEKQSQKQHKDDGHSDSTAAASSQQQAPPQSAPASQIQAPPMPGPPPLGPPPAPPLRPPGPPTGLPPGPPPGAPPFLRPPGMPGIRGPLPRLLPPGPPPGRPPGPPPGPPPGLPPGPPPRGPPPRLPPPAPPGIPPPRPGMMRPPLVPPLGPAPPGLFPPAPLPNPGVLSAPPSLIQRPKADDASAATIEKKATATISAKPQITNPKAEVTRFVPTALRVRRENKGATAVPQRRSEDDSAVPVAKAAPRSGPSVAVSVQTKDDVYEAFMKEMEGLL |
| 1605 | sp|Q94AP3|WAT1\_ARATH | MADNTDNRRSLWGVPEKLQLHIAMLTLQFGYAGFHVVSRAALNMGISKLVFPVYRNIIALLLLLPFAYFLEKKERPAITLNFLIQFFFLALIGITANQGFYLLGLDNTSPTFASSMQNSVPAITFLMAALLRIEKVRINRRDGISKILGTALCVAGASVITLYKGPTIYTPASHLHAHLLTTNSAVLAPLGNAAPKNWTLGCIYLIGHCLSWSGWLVFQAPVLKSYPARLSVTSYTCFFGIIQFLIIAAFCERDSQAWVFHSGWELFTILYAGIVASGIAFAVQIWCIDRGGPVFVAVYQPVQTLVVAIMASIALGEEFYLGGIIGAVLIIAGLYFVLYGKSEERKFAALEKAAIQSSAEHGIERAPVSRNSIKSSITTPLLHQSTDNV |
| 1606 | sp|P49953|WT1\_SMIMA | SVPPPVYGCHTPTDSCTGSQALLLRTPYNSDNLYQMTSQLECMTWNQMNLGATLKGHTTGYENDNHTTPILCGAQYRIHTHGVFRGIQDVRRVPGVAPTIVRSATETNEKRPFMCAYPGCNKRYFKLSHLQMHSRKHTGEKPYQCDFKDCERRFSRSDQLKRHQRRHTGVKPFQCKTCQRKFSRSDHLKTHTRTHTGKTSEKPFSCRWPSCQKKFARSDELVRHHNMHQRNMTKLQLTL |
| 1607 | sp|P21552|WNT2\_MOUSE | MNVPLGGIWLWLPLLLTWLTPEVSSSWWYMRATGGSSRVMCDNVPGLVSRQRQLCHRHPDVMRAIGLGVAEWTAECQHQFRQHRWNCNTLDRDHSLFGRVLLRSSRESAFVYAISSAGVVFAITRACSQGELKSCSCDPKKKGSAKDSKGTFDWGGCSDNIDYGIKFARAFVDAKERKGKDARALMNLHNNRAGRKAVKRFLKQECKCHGVSGSCTLRTCWLAMADFRKTGDYLWRKYNGAIQVVMNQDGTGFTVANKRFKKPTKNDLVYFENSPDYCIRDREAGSLGTAGRVCNLTSRGMDSCEVMCCGRGYDTSHVTRMTKCECKFHWCCAVRCQDCLEALDVHTCKAPKSADWATPT |
| 1608 | sp|Q9Y484|WIPI4\_HUMAN | MTQQPLRGVTSLRFNQDQSCFCCAMETGVRIYNVEPLMEKGHLDHEQVGSMGLVEMLHRSNLLALVGGGSSPKFSEISVLIWDDAREGKDSKEKLVLEFTFTKPVLSVRMRHDKIVIVLKNRIYVYSFPDNPRKLFEFDTRDNPKGLCDLCPSLEKQLLVFPGHKCGSLQLVDLASTKPGTSSAPFTINAHQSDIACVSLNQPGTVVASASQKGTLIRLFDTQSKEKLVELRRGTDPATLYCINFSHDSSFLCASSDKGTVHIFALKDTRLNRRSALARVGKVGPMIGQYVDSQWSLASFTVPAESACICAFGRNTSKNVNSVIAICVDGTFHKYVFTPDGNCNREAFDVYLDICDDDDF |
| 1609 | sp|Q7Z7D3|VTCN1\_HUMAN | MASLGQILFWSIISIIIILAGAIALIIGFGISGRHSITVTTVASAGNIGEDGILSCTFEPDIKLSDIVIQWLKEGVLGLVHEFKEGKDELSEQDEMFRGRTAVFADQVIVGNASLRLKNVQLTDAGTYKCYIITSKGKGNANLEYKTGAFSMPEVNVDYNASSETLRCEAPRWFPQPTVVWASQVDQGANFSEVSNTSFELNSENVTMKVVSVLYNVTINNTYSCMIENDIAKATGDIKVTESEIKRRSHLQLLNSKASLCVSSFFAISWALLPLSPYLMLK |
| 1610 | sp|Q91XU0|WRIP1\_MOUSE | MEVSGPEDDPFLSQLHQVQCPVCQQMMPAAHINSHLDRCLLLHPAGHAEPAAGSHRAGERAKGPSPPGAKRRRLSESSALKQPATPTAAESSEGEGEEGDDGGETESRESYDAPPTPSGARLIPDFPVARSSSPARKGMGKRPAAAAAAGSASPRSWDEAEAQEEEEAGVDGDGDADVDGEDDPGHWDADAADASFGVSAGRAHPRALAAEEIRQMLEGKPLADKMRPDTLQDYIGQSRAVGQETLLRSLLEANEIPSLILWGPPGCGKTTLAHIIANNSKKHSIRFVTLSATNAKTNDVRDVIKQAQNEKSFFKRKTILFIDEIHRFNKSQQDTFLPHVECGTITLIGATTENPSFQVNAALLSRCRVIVLEKLPVEAMVTILMRAINSLGIHVLDSSRPTDPLSHSSNCSSEPSVFIEDKAVDTLAYLSDGDARTGLNGLQLAVLARLSSRKVFCKKSGQTYSPSRVLITENDVKEGLQRSHILYDRAGEEHYNCISALHKAMRGSDQNASLYWLARMLEGGEDPLYVARRLVRFASEDIGLADPSALAQAVAAYQGCHFIGMPECEVLLAQCVVYFARAPKSIEVYSAYNNVKACLRSHQGPLPPVPLHLRNAPTRLMKDLGYGKGYKYNPMYSEPVDQDYLPEELRGVDFFKQRRC |
| 1611 | sp|Q7TSP5|VTCN1\_MOUSE | MASLGQIIFWSIINIIIILAGAIALIIGFGISGKHFITVTTFTSAGNIGEDGTLSCTFEPDIKLNGIVIQWLKEGIKGLVHEFKEGKDDLSQQHEMFRGRTAVFADQVVVGNASLRLKNVQLTDAGTYTCYIRTSKGKGNANLEYKTGAFSMPEINVDYNASSESLRCEAPRWFPQPTVAWASQVDQGANFSEVSNTSFELNSENVTMKVVSVLYNVTINNTYSCMIENDIAKATGDIKVTDSEVKRRSQLQLLNSGPSPCVFSSAFVAGWALLSLSCCLMLR |
| 1612 | sp|Q8IV63|VRK3\_HUMAN | MISFCPDCGKSIQAAFKFCPYCGNSLPVEEHVGSQTFVNPHVSSFQGSKRGLNSSFETSPKKVKWSSTVTSPRLSLFSDGDSSESEDTLSSSERSKGSGSRPPTPKSSPQKTRKSPQVTRGSPQKTSCSPQKTRQSPQTLKRSRVTTSLEALPTGTVLTDKSGRQWKLKSFQTRDNQGILYEAAPTSTLTCDSGPQKQKFSLKLDAKDGRLFNEQNFFQRAAKPLQVNKWKKLYSTPLLAIPTCMGFGVHQDKYRFLVLPSLGRSLQSALDVSPKHVLSERSVLQVACRLLDALEFLHENEYVHGNVTAENIFVDPEDQSQVTLAGYGFAFRYCPSGKHVAYVEGSRSPHEGDLEFISMDLHKGCGPSRRSDLQSLGYCMLKWLYGFLPWTNCLPNTEDIMKQKQKFVDKPGPFVGPCGHWIRPSETLQKYLKVVMALTYEEKPPYAMLRNNLEALLQDLRVSPYDPIGLPMVP |
| 1613 | sp|Q24087|XPF\_DROME | MADSCAENAAKGTENERPKEVEASADTVPQVEEGVEEYLKRKNMVLLDYEKQMFLDLVEADGLLVCAKGLSYDRVVISILKAYSDSGNLVLVINSSDWEEQYYKSKIEPKYVHEVASTATERERVYLEGGLQFISTRILVVDLLKQRIPIELISGIIVLRAHTIIESCQEAFALRLFRQKNKTGFVKAFSSSPEAFTIGYSHVERTMRNLFVKHLYIWPRFHESVRTVLQPWKIQSIEMHVPISQNITSIQSHILEIMNFLVQEIKRINRTVDMEAVTVENCVTKSFHKILQAQLDCIWHQLNSQTKLIVADLKILRSLMISTMYHDAVSAYAFMKRYRSTEYALSNSGWTLLDAAEQIFKLSRQRVFNGQQEFEPEPCPKWQTLTDLLTKEIPGDMRRSRRSEQQPKVLILCQDARTCHQLKQYLTQGGPRFLLQQALQHEVPVGKLSDNYAKESQTRSAPPKNVSSNKELRREEVSGSQPPLAGMDELAQLLSESETEGQHFEESYMLTMTQPVEVGPAAIDIKPDPDVSIFETIPELEQFDVTAALASVPHQPYICLQTFKTEREGSMALEHMLEQLQPHYVVMYNMNVTAIRQLEVFEARRRLPPADRMKVYFLIHARTVEEQAYLTSLRREKAAFEFIIDTKSKMVIPKYQDGKTDEAFLLLKTYDDEPTDENAKSRQAGGQAPQATKETPKVIVDMREFRSDLPCLIHKRGLEVLPLTITIGDYILTPDICVERKSISDLIGSLNSGRLYNQCVQMQRHYAKPILLIEFDQNKPFHLQGKFMLSQQTSMANADIVQKLQLLTLHFPKLRLIWSPSPYATAQLFEELKLGKPEPDPQTAAALGSDEPTAGEQLHFNSGIYDFLLRLPGVHTRNIHGLLRKGGSLRQLLLRSQKELEELLQSQESAKLLYDILHVAHLPEKDEVTGSTALLAASKQFGAGSHNRFRMAAAASRRGRR |
| 1614 | sp|Q7TPK6|WNK4\_RAT | MLAPRNTETGVHMSQTEADLALRPSPSLTSMGPTRLGPPPRRVRRFSGKAEPRPRSSRPSRRSSVDLGLLSSWSQPASLLPEPPDPPDSAGPMRSPPSNSKEHPEGTWTGAAPVKAADSACPELTVSSGGPGSREPPRVPDAAARERRREQEEKEDTETQAVATSPDGRYLKFDIEIGRGSFKTVYRGLDTDTTVEVAWCELQTRKLSRAERQRFSEEVEMLKGLQHPNIVRFYDSWKSVLRGQVCIVLVTELMTSGTLKTYLRRFREMKPRVLQRWSRQILRGLHFLHSRVPPILHRDLKCDNVFITGPSGSVKIGDLGLATLKRASFAKSVIGTPEFMAPEMYEEKYDEAVDVYAFGMCMLEMATSEYPYSECQNAAQIYRKVTSGTKPNSFYKVKMPEVKEIIEGCIRTDKNERFTIQDLLTHAFFREERGVHVELAEEDDGEKPGLKLWLRMEDARRGGRPRDNQAIEFLFQLGRDAAEEVAQEMVALGLVCEADYQPVARAVRERVAAIQRKREKLRKARELEVLPPDSGPPPATVSMTPGPPSAFPPEPEEPEADQHQSFLFRHASYSSTTSDCETDGYLSSSGFLDASDPALQPPGGMPSSPAEPHLCLPSGFALSIPRSGPGSDFSPGDSYASDAASGLSDMGEGGQMRKNPVKTLRRRPRSRLRVTSVSDQSDRVVECQLQTHNSKMVTFRFDLDGDSPEEIAAAMVYNEFILPSERDGFLSRIREIIQRVETLLKRDAGPSEATEDALSPQEEPAAMPALPGPSDAELQRSISPEQRSWAAFSTSPSSPGTPLSPGTPFSPGTPPVFPCPIFPITSPSCHPYPFSQVSSNPCPQAPSSLLPSSSGASQVPFPSPSLPTSSPLPFSPSYPQVPLHPASLPTCPSPPPLPSTTAAPLLSLASAFSLAVMTVAQSLLSPSPGLLSQSPPAPPGPLPSMPLPLASCDQESLSAQTAETENEASRNPAQPLLGDARLAPISEEGKPQLVGRFQVTSSKEPAEPPLQPASPTLSRSLKLPTPQLTSESSDTEDSAAGGPETREALAESDRAAEGLGVAIDEEKDEGKEPQIGGSSPILSQPSPVWMNYSYSSLCLSSEESESSGEDEEFWAELQNLRQKHLSEVEALQTLQKKEIEDLYSRLGKQPPPGIVAPAAMLSCRQRRLSKGSFPTSRRNSLQRSDLPGPGIMRRNSLSGSSTGSQEQRASKGVTFAGDVGRM |
| 1615 | sp|P58200|VTI1B\_RAT | MATSAASSEHFEKLHEIFRGLLEDLQGVPERLLGTAGTEEKKKLVRDFDEKQQEANETLAEMEEELRYAPLTFRNSMMSKLRNYRKDLAKLHREVRSTPLTATPGGRGDLKFGTYTLENEHLNRLQSQRALLLQGTESLNRATQSIERSHRIAAETDQIGSEIIEELGEQRDQLERTKSRLVNTNENLSKSRKILRSMSRKVITNKLLLSVIIVLELAILVGLVYYKFFRHH |
| 1616 | sp|Q9SCU5|WNK5\_ARATH | MYMEISSASDDSIAYVETDPSGRYGRFREVLGKGAMKTVYKAFDQVLGMEVAWNQVKLNEVFRSPEPLQRLYSEVHLLKNLNHESIIRYCTSWIDVNRRTFNFITELFTSGTLREYRRKYQKVDIRAIKSWARQILNGLAYLHGHDPPVIHRDLKCDNIFVNGHLGQVKIGDLGLAAILRGSQNAHSVIGTPEFMAPELYEEDYNELVDIYSFGMCVLEMLTGEYPYSECTNPAQIYKKVTSGKLPDSFHLIQHTEAQRFVGKCLETVSRRLPAKELLADPFLAATDERDLAPLFRLPQQLAIQNLAANGTVVEHLPSTTDPTRTTDMSITGKMNSEDHTIFLQVQILDGDGHMRNIQFPFNILSDTPLEVALEMVKELEITDWDPLEIAAMIENEISLLVPNWRANDSSIRHESFGHEDDEDNGDTEGRTRLFSSASSSHDSPVAVRENNDDSSNDVIPDMDDGNRSSNRLLNSSTYHYSPAIDDDQNQQQRRRVRLQQKMRSLVDTRTQVLHRSLMELINKRRGRGFDPNTNELQPQPSSTDFIRRC |
| 1617 | sp|Q810W9|WHRN\_RAT | MNAQLDGLSVSSSSTGSLGSAAAAAGGGGGAGLRLLSANVRQLHQALTALLSEPEREQFTHCLNAYHARRNVFDLVRTLRVLLDSPVKRRLLPMLRLVIPRSDQLLFDQYTAEGLYLPATTPYRQPAWAAPDGAGPGEVRLVSLRRAKAHEGLGFSIRGGSEHGVGIYVSLVEPGSLAEKEGLRVGDQILRVNDKSLARVTHAEAVKALKGSKKLVLSVYSAGRIPGGYVTNHIYTWVDPQGRSTSPPSSLPHGSTLRQHEDDRRSALHLLQSGDEKKVNLVLGDGRSLGLTIRGGAEYGLGIYITGVDPGSEAESSGLKVGDQILEVNGRSFLSILHDEAVKLLKSSRHLILTVKDVGRLPHARTTVDQTKWIASSRIGESITNSAGFPGDLTEEGTNKPGFYKGPAGSQVTLSSLGNQTRALLDDQARHLLTEQERATMMYYLDQYRGGTISVEALVMALFELLNTHAKFSLLSEVRGIISPQDLDRFDHLVLRREIESMKARQPPGPGVGDTYSMVSYSDTGSSTGSHGTSTTVSSARERLLWLIDLMENTLDLEGTCETTQGSTNALPDVSVDDVRSPSEDLPGIKPPPPPPPLAQGHDRLLGQTRKPVREDSAPLSSAAHSGIVFSAPRNRSPPPPPGIAPTPTPGPSSARDSPSSPIYASISHANPSSRKPLDTHLALVNQHPIGPFPRVQSPPHLKSPPAEAPGAGACLPPPSPSEHADAMGANQHFVLVEVHRPDSEPDVNEVRALPQTRTASTLSQLSDSGQTLSEDSGVDAGETEASTSGRGRQTANTKNKNGKELPQTERTTEGANKPPGLLEPTSTLIRVRKSAATLGIAIEGGANTRQPLPRIVTIQRGGSAHNCGQLKVGHVILEVNGQTLRGKEHREAARVIAEAFKTKERDYIDFLVTEFNVML |
| 1618 | sp|Q03494|YD22B\_YEAST | MESQQLHQNPHSQHGSAYASVTSKEVPSNQDPLAVSASNLPEFDRDSTKVNSQEETTPGTSAVPENHHHVSPQPASVPPPQNGQYQQHGMMTPNKAMASNWAHYQQPSMMTCSHYQTSPAYYQPDPHYPLPQYIPPLSTSSPDPIDSQDQHSEVPQAKTKVRNNVLPPHTLTSEENFSTWVKFYIRFLKNSNLGDIIPNDQGEIKRQMTYEEHAYIYNTFQAFAPFHLLPTWVKQILEINYSDILTVLCKSVSKMQTNNQELKDWIALANLEYNGSTSADTFEITVSTIIQRLKENNINVSDRLACQLILKGLSGDFKYLRNQYRTKTNMKLSQLFAEIQLIYDENKIMNLNKPSQYKQHSEYKNVSRTSPNTTNTKVTTRNYHRTNSSKPRAAKAHNIATSSKFSRVNSDHINESTVSSQYLSDDNELSLGQQQKESKPTRTIDSNDELPDHLLIDSGASQTLVRSAHYLHHATPNSEINIVDAQKQDIPINAIGNLHFNFQNGTKTSIKALHTPNIAYDLLSLSELANQNITACFTRNTLERSDGTVLAPIVKHGDFYWLSKKYLIPSHISKLTINNVNKSKSVNKYPYPLIHRMLGHANFRSIQKSLKKNAVTYLKESDIEWSNASTYQCPDCLIGKSTKHRHVKGSRLKYQESYEPFQYLHTDIFGPVHHLPKSAPSYFISFTDEKTRFQWVYPLHDRREESILNVFTSILAFIKNQFNARVLVIQMDRGSEYTNKTLHKFFTNRGITACYTTTADSRAHGVAERLNRTLLNDCRTLLHCSGLPNHLWFSAVEFSTIIRNSLVSPKNDKSARQHAGLAGLDITTILPFGQPVIVNNHNPDSKIHPRGIPGYALHPSRNSYGYIIYLPSLKKTVDTTNYVILQNNQTKLDQFDYDTLTFDDDLNRLTAHNQSFIEQNETEQSYDQNTESDHDYQSEIEINSDPLVNDFSSQSLNPLQLDKEPVQKVRAPKEVDADISEYNILPSTIRSRTPHIINKESTEMGGTIESDTTSPRHSSTFTARNQKRPGSPNDMIDLTSQDRVNYGLENIKTTRLGGTEEPYIQRNSDTNIKYRTTNSTPSIDDRSSNSESTTPIISIETKAVCDNTPSIDTDPPEYRSSDHATPNIMPDKSSKNVTADSILDDLPLPDLTHKSPTDTSDVAKDIPHIHSRQTNSSLGGMDDSNVLTTTKSKKRSLEDNETEIEVSRDTWNNKNMRSLEPPRSKKRINLIAAIKGVKSIKPVRTTLRYDEAITYNKDNKEKDRYVEAYHKEISQLLKMNTWDTNKYYDRNDIDPKKVINSMFIFNKKRDGTHKARFVARGDIQHPDTYDSDMQSNTVHHYALMTSLSIALDNDYYITQLDISSAYLYADIKEELYIRPPPHLGLNDKLLRLRKSLYGLKQSGANWYETIKSYLINCCDMQEVRGWSCVFKNSQVTICLFVDDMILFSKDLNANKKIITTLKKQYDTKIINLGEGDNEIQYDILGLEIKYQRSKYMKLGMEKSLTEKLPKLNVPLNPKGKKLRAPGQPGHYIDQDELEIDEDEYKEKVHEMQKLIGLASYVGYKFRFDLLYYINTLAQHILFPSRQVLDMTYELIQFMWDTRDKQLIWHKNKPTKPDNKLVAISDASYGNQPYYKSQIGNIFLLNGKVIGGKSTKASLTCTSTTEAEIHAVSEAIPLLNNLSHLVQELNKKPIIKGLLTDSRSTISIIKSTNEEKFRNRFFGTKAMRLRDEVSGNNLYVYYIETKKNIADVMTKPLPIKTFKLLTNKWIH |
| 1619 | sp|P0A8Y1|YJJG\_ECOLI | MKWDWIFFDADETLFTFDSFTGLQRMFLDYSVTFTAEDFQDYQAVNKPLWVDYQNGAITSLQLQHGRFESWAERLNVEPGKLNEAFINAMAEICTPLPGAVSLLNAIRGNAKIGIITNGFSALQQVRLERTGLRDYFDLLVISEEVGVAKPNKKIFDYALEQAGNPDRSRVLMVGDTAESDILGGINAGLATCWLNAHHREQPEGIAPTWTVSSLHELEQLLCKH |
| 1620 | sp|Q91V17|ZNRF1\_MOUSE | MGGKQSTAARSRGPFPGVSTDDSAVPPPGGAPHFGHYRTGGGAMGLRSRSVSSVAGMGMDPSTAGGVPFSLYTPASRGTGDSERAPGGGGSTSDSTYAHGNGYQETGGGHHRDGMLYLGSRASLADALPLHIAPRWFSSHSGFKCPICSKSVASDEMEMHFIMCLSKPRLSYNDDVLTKDAGECVICLEELLQGDTIARLPCLCIYHKSCIDSWFEVNRSCPEHPAD |
| 1621 | sp|O43264|ZW10\_HUMAN | MASFVTEVLAHSGRLEKEDLGTRISRLTRRVEEIKGEVCNMISKKYSEFLPSMQSAQGLITQVDKLSEDIDLLKSRIESEVRRDLHVSTGEFTDLKQQLERDSVVLSLLKQLQEFSTAIEEYNCALTEKKYVTGAQRLEEAQKCLKLLKSRKCFDLKILKSLSMELTIQKQNILYHLGEEWQKLIVWKFPPSKDTSSLESYLQTELHLYTEQSHKEEKTPMPPISSVLLAFSVLGELHSKLKSFGQMLLKYILRPLASCPSLHAVIESQPNIVIIRFESIMTNLEYPSPSEVFTKIRLVLEVLQKQLLDLPLDTDLENEKTSTVPLAEMLGDMIWEDLSECLIKNCLVYSIPTNSSKLQQYEEIIQSTEEFENALKEMRFLKGDTTDLLKYARNINSHFANKKCQDVIVAARNLMTSEIHNTVKIIPDSKINVPELPTPDEDNKLEVQKVSNTQYHEVMNLEPENTLDQHSFSLPTCRISESVKKLMELAYQTLLEATTSSDQCAVQLFYSVRNIFHLFHDVVPTYHKENLQKLPQLAAIHHNNCMYIAHHLLTLGHQFRLRLAPILCDGTATFVDLVPGFRRLGTECFLAQMRAQKGELLERLSSARNFSNMDDEENYSAASKAVRQVLHQLKRLGIVWQDVLPVNIYCKAMGTLLNTAISEVIGKITALEDISTEDGDRLYSLCKTVMDEGPQVFAPLSEESKNKKYQEEVPVYVPKWMPFKELMMMLQASLQEIGDRWADGKGPLAAAFSSSEVKALIRALFQNTERRAAALAKIK |
| 1622 | sp|A2A5K6|ZN335\_MOUSE | MEENEVESSSDAAPRPGQPEEPSESGLGVCTSEAVSADSSDAATVPGLTEADDSGVGQSSDGGNHSVEEVSESISTDPLPHGCLPDSSSVSRGPVAEMPGGPPALVHSSVLPDPSMLVSDCTASSSDLGSAIDKIIESTIGPDLIQSCITVTSGEEGGAETTQYLILQGPDDGAPMASSMSTSTLANSLAAIEALADGPTSTSACLEPPEEPQGDPSSVAQQPPAPVTEELDLQSLEAMMEVVVVQQFKCKMCQYRSSTKATLLRHMRERHFRPALAAAAAATGKRGRVRKWGTSTKTTEEDRPEEEEEDDDIVDAGAIDDLEEDSDYNPAEDEPRGRQLRLQRPTPSTPRPRRRPGRPRKLPRLETSDLHDGVGQPLVSSQSTQSPPELQDLEAPSSSGLRALGKVGRGLVESGVSQSDAENAAPSCQDEADAPPRRRGRPSRRFLGKKYRKYYYKSPKPLLRPYLCRICGSRFLSHEDLRFHVNSHEAGDPQLFRCLQCSYRSRRWSSLKEHMFNHVGSKPYKCDECSYTSVYRKDVIRHAAVHSQDRKKRPDPTPKLSSFPCPVCGRVYPMQKRLTQHMKTHSTEKPHMCDKCGKSFKKRYTFKMHLLTHIQAVANRRFKCEFCEFVCEDKKALLNHQLSHVSDKPFKCSFCPYRTFREDFLLSHVAVKHTGAKPFACEYCHFSTRHKKNLRLHVRCRHANSFEEWGRRHPEEPPSRRRPFFSLQQIEELKQQHSTAPGPPLSSPGPEAPQEPAPFQSPETPPLLCPDALGGTTIIYQQGAEESTAVATQTALDLLLNMSAQRELGATALQVAVVKSEGIEAELTSTGGQPSPEDTTPRVVTLHMAESGSSVAAESQLGPSDLQQIALPSGPFGGASYSVITAPPVEGRTSASGPPYREEPPGEAAQAVVVSDTLKEAGTHYIMAADGTQLHHIELTADGSISFPSPDTLAPGTKWPLLQCGGPPRDGSEVLSPTKTHHMGGSQGSSTPPPAASHTLGLVVPQSPPSAAASSTKKFSCKVCSEAFPSRAEMESHKRAHAGPAAFKCPDCPFSARQWPEVRAHMAQHSSLRPHQCNQCSFASKNKKDLRRHMLTHTNEKPFSCHVCGQRFNRNGHLKFHIQRLHSIDGRKTGTSTARAPAQTIILNSEEETLATLHTAFQSSHGVLGTERLQQALSQEHIIVAQEQTVTNQEEATYIQEITADGQTVQHLVTSDNQVQYIISQDGVQHLLPQEYVVVPDGHHIQVQEGQITHIQYEQGTPFLQESQIQYVPVSPSQQLVTQAQLEAAAHSAVTAVADAAMAQAQGLFGTEEAVPEQIHQLQHQGIEYDVITLSDD |
| 1623 | sp|Q8IYI8|ZN440\_HUMAN | MDPVAFKDVAVNFTQEEWALLDISQRKLYREVMLETFRNLTSLGKRWKDQNIEYEHQNPRRNFRSLIEEKVNEIKDDSHCGETFTPVPDDRLNFQEKKASPEVKSCESFVCGEVGLGNSSFNMNIRGDIGHKAYEYQEYGPKPCKCQQPKKAFRYRPSFRTQERDHTGEKPNACKVCGKTFISHSSVRRHMVMHSGDGPYKCKFCGKAFHCLRLYLIHERIHTGEKPCECKQCGKSFSYSATHRIHKRTHTGEKPYEYQECGKAFHSPRSYRRHERIHMGEKAYQCKECGKAFTCPRYVRIHERTHSRKNLYECKQCGKALSSLTSFQTHVRLHSGERPYECKICGKDFCSVNSFQRHEKIHSGEKPYKCKQCGKAFPHSSSLRYHERTHTGEKPYECKQCGKAFRSASHLRVHGRTHTGEKPYECKECGKAFRYVNNLQSHERTQTHIRIHSGERRYKCKICGKGFYCPKSFQRHEKTHTGEKLYECKQRSVVPSVVPVPFDIMKGLTLERSPINASNVGKPSELCQSFECMVGLTLKRNPMSVSNDGKPSDLPHTFEYVVGHTMERSPMHVRNVGNPSDLPRTFEFMKGHKHT |
| 1624 | sp|Q10RE2|YUC8\_ORYSJ | MQGQQKQNAGGGGGDNASPCIVLDGPIIVGAGPSGLAVAATLRQHGAPFTVVERSGGVADLWTNRTYDRLRLHLPKVFCELPHVAFPPDFPTYPTKHDFLRYLHSYAARFAIAPLLRRTVTRAWYDHPASLWRVTTTTTSSSATSVITEYASPWLVVASGENAEVVVPKVKGRERFAGEALHSSEYRSGERFRGMRVLVVGCGNSGMEMCLDLCEHGAMPFMSVRSGVHVLPREMFGASTFGIAMKLLRWLPIKMVDRFLLLVARMVLGDTEKYGLKRPKLGPLEIKNITGKSPVLDVGAWSLIKSGNIKIVPEVESFSGNGARFVDGNEMAFDAVIFATGYRSNVPSWLQEDGELFTEEGKLRSSGSSSEWRWRGPNGLYCVGFSGRGLLGAGADALRAAADIAGRWQETQQAAANISSV |
| 1625 | sp|Q7Z3I7|ZN572\_HUMAN | MEQEKKLLVSDSNSFMERESLKSPFTGDTSMNNLETVHHNNSKADKLKEKPSEWSKRHRPQHYKHEDAKEMPLTWVQDEIWCHDSYESDGKSENWGNFIAKEEEKPNHQEWDSGEHTNACVQQNSSFVDRPYKCSECWKSFSNSSHLRTHQRTHSGEKPYKCSECAKCFCNSSHLIQHLRMHTGEKPYQCGECGKSFSNTSHLIIHERTHTGEKPYKCPECGKRFSSSSHLIQHHRSHTGEKPYECSVCGKGFSHSYVLIEHQRTHTGEKPYKCPDCGKSFSQSSSLIRHQRTHTGEKPYKCLECEKSFGCNSTLIKHQRIHTGEKPYQCPECGKNFSRSSNLITHQKMHTGEKSYESSEYEESLGQNCNVIEECRIQLGEKPYRCCECGKSFGLSSHLIRHQRTHTGEKPYRCSECWKTFSQSSTLVIHQRTHTGEKPYKCPDCGESFSQSFNLIRHRRTHIGEKPYKCTSCEKCFSRSAYLSQHRKIHVEKPFESPDVGDFPHEWTWKNCSGEMPFISSFSVSNSSS |
| 1626 | sp|Q802Y8|ZB16A\_DANRE | MDLTKMGMIQLQNPNHPNALLHKANQMRLAGTLCDVVIMVDSQEFHAHRTVLACTSKMFEILFHRNSQHYTLDFLSPKTFQQILEYAYTATLQAKVEDLDDLLYAAEILEIEYLEEQCLKILETIQSSDENDTEVNMNDGGTEDDEERKGRHGRNLVGSKKHSTEESGYVSAAQQALALPGMVDQSPSVSTSFGLSTMSPTKAAVDSLMSIGQSLLQSTMHPGVGAEQPLHGNSHPMMGEIKTEMMQVDESGEHESPKAMESIASSNGERSGEPDKNRDGPGTPTRSSVITSARELHYVRDEGLGDQQAEVSQMGLEAMAGMTEKHLASLYGIPSNHKNEAMLSMPASMASSLHMSPALAMSMDFSAYGGLLPQSFIQREFFSKLGELAAGIKPDGRSLNERCNVCGAELPDNEAIEQHRKLHSGMKTYGCELCGKRFLDSLRLRMHLLSHSAGEKAIVCDQCGAQFQKEDALEAHRQIHTGSDMAIFCLLCGKRFQTQTALQQHMEVHAGVRSYICSECNRTFPSHTALKRHLRSHTAGDHPFECEFCGSCFRDESTLKGHKRIHTGEKPYECNGCGKKFSLKHQLETHYRVHTGEKPFECKLCHQRSRDYSAMIKHLRTHNGASPYQCTICLEYCPSLSAMQKHMKGHKPEDIPPDWRIEKTYLYLCYV |
| 1627 | sp|E9P860|ZNFX1\_CAEEL | MSRDKPPQREVGGRRLPYEMGSLKFDEDPFRGQRRRPWMCFRIGYPTSEFSSEHFMKFVKRCHTSMIEVGILLDDEREFLQYQEVREDYLLLKKLIEEGLQKCETIYEKGPLSTPVVFFILDQCDEDEVQNMLDMFRESCYIFHMKRNEILNWINEMEYEELESDCSKFAQFIKGVENLTESIAMPMEVETEEFIFGKSSIVSTEDFVEDAPHKQIAQDQRETRPIRQPYSMVRNLAPPGLPPPGISISNSSPPGLSSVSPIPRADTRESRYSTPQPPGLSIPAPPGISLPTPPGISLQNHQNDQFEQAHSTISRMSENSSSSRRRFRDEEVQEEEGDHILSSEDVHAARNVCETKILVRGVPQKNDSELSKLINGSKLYVRFERPFVKLAHNLELLYVVNYAISSRKSIVRDHSKAIIRGLFEKDFLLKLKSKFLESSFDNDTWTPEGTELLFEIFHLFFTTARYKGGFMLTLPRFAPSWHDFSMAFDIADMDGLEEAGVGDDELRNLRRLIGYIETWIKRAERERNPSPLALRSYSVYEKAGSSDSGRQVLSESRGAGSSNVYGHDEVDFVDHRRRDEFGHRDNYRTENRRHKSPDNFGEVHRRLDEQQQQRHEDESSRYRDDSRQSRRADDRRDQYQYNESTSMENHLGFHNGGGTVSEHSRDDKFVSPQNCEEKRKYCEEDTDAKPQQPYRFEEIKFEPIWVKCEKSEPPEDFKTLPSVPVLSEYVNPVEPYLRRIQDDGKYKSVHHYLDVQFRLLKEDLVSPLRDGIDLYKKNGTCKGRRIEGAPCSDISIFNVEKVDGKQVTERDGYEMRIIWPAQYDILKLLDNDREMKELGLVMLSCDRFKEDFHLGHIQSSYLMRNGSLHFAVHEETSPFKPNTTYQMAQGTSYLPCYKHVLENLKRISSFKPLPFERYLVHGSKIIFRPNFQQAEKSEYQISEEKKLMKTYNELRSLAACARYTKGKPIPRGVDDDDEDYEFSKSRELSKEDIDLEYRQLQEPIFRPLVGVDIKDSNLIQINKKWYNVSRLLDEFHPDYMDESQRLAFCNTFKYELSLIQGPPGTGKTHIGVQIVKTILQNRSYWKITEPILVVCFTNSGLDNLLERIYQMIENDEELSKDNGRPKIIRFGSKCDSNYLKRQNVMRQDVYEQYKSKVSDGAQKKMSKAGAARRHKADNLAISSYTLFCSRNKLLSYEMLSRVMDPNHQMEIQQFTYDHVDTKGIPLSPDEAIGCWLLERDFGKATKSQTKKAKKPKFQGAQLDSEDENKDYFTVEDSDDEEDELDDEKLLDKLFEKMNLECSGADILSAVHASHADEYYTKGPWEIVQDKRPSVVVLMEKKTKPCNAKFTVDEQINNLVSEIKDMILSSQPVPKKDLNDIKYIFSLARLKRWSLYITWCDALRSIVTENLPRQIREYREACENFKNAQNRVDAEIMRMTMIIGATTTGCSRLRPTLEKVGPRILIVEEAAEVLEAHIISAMISTVEHVVMIGDHKQLRPNPAVHELGVAYGLRISMFERLVERGLPFSQLRQQHRMNLTISDKIVKLSFYDNVTDAENVGLYPDVQGMATNLFFWSHTSMEESPDEVSWLNKHEISMTVALVKHLLKQNYTTNDIVVLATYSAQKNLMYREYANVFGSTPDSNVIPVETVDSFQGKERKIVIVSLVRSHRGGRENTGIGFLAVANRICVALTRAQHGMYIIGNGAYIMNNSELWNKIVNNLRRSNLIEYNLPLKCVAHGNIVTVKDPQDFATKSPEGGCMQKCDTKKFCGHVCERLCHPNMEEEHLQRCLYNCDKKCSNPQFQHRCKKACYEECGSCLYLVEVTLDCGHRITTPCSRINSSKCDQSCTKKLLCGHACAAKCGEECTLVSECSQLVGMPLSCGHIKQLTCSKISANEIDLTCDQRCEKTMLACPHKCAEICGQPCTVECMEVVNVTLGCSHSQDVVCSSFMPGMTDHIECLTKVPKTLSPCKHTELVLCKQAPSTKLCTRRCTSYLEKCGHTCENDCGICFTTKTHICQNMCQKVLNCGHTCSAKCGESCPPCKAFCTNKCEHQSCGAGERGFGRDCSKLCALCVNNCSNKCAHRSCTLKCFEECNVKPCTEPCTDKLKCGHACLGICGEQCPKICGTCERNKYIECVSGTSSTSRVHRLIMIPKCYHVFPVEVLDDHVKKQKEANEKLKCPKCSAFIVGVLRYARYTKKYYLNENMRKLESNIRNIHQSTLEGRVFQAVQDSIGEIRNVTTNLTNASEDILRNFHQKILDIRTSAETFKGKPEHKFKFASLLQVANCCLAITRLLSVSSKFRVSRRKDIPPTFDLMSVRVLGDMPFPKLIDELNRVNIHLSNTYETFMPGAIIPKLKWLISRMTVLQQLTSMCHQLVLEKKDIADSDAHAINDACLNMFRYNEQHNYALNIENFEAIVVKVAPKLLEPTPKFWSWRRLQVPEL |
| 1628 | sp|Q8WU90|ZC3HF\_HUMAN | MPPKKQAQAGGSKKAEQKKKEKIIEDKTFGLKNKKGAKQQKFIKAVTHQVKFGQQNPRQVAQSEAEKKLKKDDKKKELQELNELFKPVVAAQKISKGADPKSVVCAFFKQGQCTKGDKCKFSHDLTLERKCEKRSVYIDARDEELEKDTMDNWDEKKLEEVVNKKHGEAEKKKPKTQIVCKHFLEAIENNKYGWFWVCPGGGDICMYRHALPPGFVLKKDKKKEEKEDEISLEDLIERERSALGPNVTKITLESFLAWKKRKRQEKIDKLEQDMERRKADFKAGKALVISGREVFEFRPELVNDDDEEADDTRYTQGTGGDEVDDSVSVNDIDLSLYIPRDVDETGITVASLERFSTYTSDKDENKLSEASGGRAENGERSDLEEDNEREGTENGAIDAVPVDENLFTGEDLDELEEELNTLDLEE |
| 1629 | sp|Q9SEZ1|ZHD11\_ARATH | MDLSSKPQQQLLNSLPIAGELTVTGEMGVCYKECLKNHAANLGGHALDGCGEFMPSPTATSTDPSSLRCAACGCHRNFHRRDPSENLNFLTAPPISSPSGTESPPSRHVSSPVPCSYYTSAPPHHVILSLSSGFPGPSDQDPTVVRSENSSRGAMRKRTRTKFTPEQKIKMRAFAEKAGWKINGCDEKSVREFCNEVGIERGVLKVWMHNNKYSLLNGKIREIEHGLCLNTHSNDGDGSSSS |
| 1630 | sp|O96006|ZBED1\_HUMAN | MENKSLESSQTDLKLVAHPRAKSKVWKYFGFDTNAEGCILQWKKIYCRICMAQIAYSGNTSNLSYHLEKNHPEEFCEFVKSNTEQMREAFATAFSKLKPESSQQPGQDALAVKAGHGYDSKKQQELTAAVLGLICEGLYPASIVDEPTFKVLLKTADPRYELPSRKYISTKAIPEKYGAVREVILKELAEATWCGISTDMWRSENQNRAYVTLAAHFLGLGAPNCLSMGSRCLKTFEVPEENTAETITRVLYEVFIEWGISAKVFGATTNYGKDIVKACSLLDVAVHMPCLGHTFNAGIQQAFQLPKLGALLSRCRKLVEYFQQSAVAMYMLYEKQKQQNVAHCMLVSNRVSWWGSTLAMLQRLKEQQFVIAGVLVEDSNNHHLMLEASEWATIEGLVELLQPFKQVAEMLSASRYPTISMVKPLLHMLLNTTLNIKETDSKELSMAKEVIAKELSKTYQETPEIDMFLNVATFLDPRYKRLPFLSAFERQQVENRVVEEAKGLLDKVKDGGYRPAEDKIFPVPEEPPVKKLMRTSTPPPASVINNMLAEIFCQTGGVEDQEEWHAQVVEELSNFKSQKVLGLNEDPLKWWSDRLALFPLLPKVLQKYWCVTATRVAPERLFGSAANVVSAKRNRLAPAHVDEQVFLYENARSGAEAEPEDQDEGEWGLDQEQVFSLGDGVSGGFFGIRDSSFL |
| 1631 | sp|Q920B9|SP16H\_MOUSE | MAVTLDKDAYYRRVKRLYSNWRKGEDEYASIDAIVVSVGVDEEIVYAKSTALQTWLFGYELTDTIMVFCDDKIIFMASKKKVEFLKQIANTKGNENANGAPAITLLVREKNESNKSSFDKMIDAIKESKSGKKIGVFSKDKFPGEFMKSWSDCLNKEGFDKVDISAVVAYTIAVKEDGELNLMKKAASITSEVFNKFFKERVMEIVDADEKVRHSKLAESVEKAIEEKKYLAGADPSTVEMCYPPIIQSGGNYNLKFSVVSDKNHMHFGAITCAMGIRFKSYCSNLVRTLMVDPTQEVQENYNFLLQLQEELLKELRHGVKICDVYNSVMDVVKKQKPELLNKITKNLGFGMGIEFREGSLVINSKNQYKLKKGMVFSINLGFSDLTNKEGKKPEEKTYALFIGDTVLVDEDGPATILTSVKKKVKNVGIFLKNEDDEEEEEEKDEAEDLLGRGSRAALLTERTRNEMTAEEKRRAHQKELAAQLNEEAKRRLTEQKGEQQIQKARKSNVSYKNPSLMPKEPHIREMKIYIDKKYETVIMPVFGIATPFHIATIKNISMSVEGDYTYLRINFYCPGSALGRNEGNIFPNPEATFVKEITYRASNMKAPGEQTVPALNLQNAFRIIKEVQKRYKTREAEEKEKEGIVKQDSLVINLNRSNPKLKDLYIRPNIAQKRMQGSLEAHVNGFRFTSVRGDKVDILYNNIKHALFQPCDGEMIIVLHFHLKNAVMFGKKRHTDVQFYTEVGEITTDLGKHQHMHDRDDLYAEQMEREMRHKLKTAFKNFIEKVEALTKEELEFEVPFRDLGFNGAPYRSTCLLQPTSSALVNATEWPPFVVTLDEVELIHFERVQFHLKNFDMVIVYKDYSKKVTMINAIPVASLDPIKEWLNSCDLKYTEGVQSLNWTKIMKTIVDDPEGFFEQGGWSFLEPEGEGSDAEDGDSESEIEDETFNPSEDDYEEEEEDSDEDYSSEAEESDYSKESLGSEEESGKDWDELEEEARKADRESRYEEEEEQSRSMSRKRKASVHSSGRGSNRGSRHSSAPPKKKRK |
| 1632 | sp|Q99176|SRN2\_YEAST | MKVKATKLRIKQRRKNKGLNISRLDIIRAEMDVVPSPGLPEKVNEKSKNIPLPEGINLLSSKEIIDLIQTHRHQLELYVTKFNPLTDFAGKIHAFRDQFKQLEENFEDLHEQKDKVQALLENCRILESKYVASWQDYHSEFSKKYGDIALKKKLEQNTKKLDEESSQLETTTRSIDSADDLDQFIKNYLDIRTQYHLRREKLATWDKQGNLKY |
| 1633 | sp|Q56A18|SMCE1\_RAT | MSKRPSYAPPPTPAPATASSGITIPKPPKPPDKPLMPYMRYSRKVWDQVKASNPDLKLWEIGKIIGGMWRDLTDEEKQEYLNEYEAEKIEYNESMKAYHNSPAYLAYINAKSRAEAALEEESRQRQSRMEKGEPYMSIQPAEDPDDYDDGFSMKHTATARFQRNHRLISEILSESVVPDVRSVVTTARMQVLKRQVQSLMVHQRKLEAELLQIEERHQEKKRKFLESTDSFNNELKRLCGLKVEVDMEKIAAEIAQAEEQARKRQEEREKEAAEQAERSQGSIAPEEEQVANKAEEKKDEENIPMETEETHLEDTAENQQNGEEGTSTPEDKESGQEGVDSMEVEGTSDSNTGSESNSATVEEPPTDPVPEDEKKE |
| 1634 | sp|P0AGC3|SLT\_ECOLI | MEKAKQVTWRLLAAGVCLLTVSSVARADSLDEQRSRYAQIKQAWDNRQMDVVEQMMPGLKDYPLYPYLEYRQITDDLMNQPAVTVTNFVRANPTLPPARTLQSRFVNELARREDWRGLLAFSPEKPGTTEAQCNYYYAKWNTGQSEEAWQGAKELWLTGKSQPNACDKLFSVWRASGKQDPLAYLERIRLAMKAGNTGLVTVLAGQMPADYQTIASAIISLANNPNTVLTFARTTGATDFTRQMAAVAFASVARQDAENARLMIPSLAQAQQLNEDQIQELRDIVAWRLMGNDVTDEQAKWRDDAIMRSQSTSLIERRVRMALGTGDRRGLNTWLARLPMEAKEKDEWRYWQADLLLERGREAEAKEILHQLMQQRGFYPMVAAQRIGEEYELKIDKAPQNVDSALTQGPEMARVRELMYWNLDNTARSEWANLVKSKSKTEQAQLARYAFNNQWWDLSVQATIAGKLWDHLEERFPLAYNDLFKRYTSGKEIPQSYAMAIARQESAWNPKVKSPVGASGLMQIMPGTATHTVKMFSIPGYSSPGQLLDPETNINIGTSYLQYVYQQFGNNRIFSSAAYNAGPGRVRTWLGNSAGRIDAVAFVESIPFSETRGYVKNVLAYDAYYRYFMGDKPTLMSATEWGRRY |
| 1635 | sp|Q9V460|SPT5H\_DROME | MSDSEVSNMSDSGSEDGSISNKSQRSARSKSRSRSRSGSRGSRSVSRSRSRSQSGHSRSGSESPQRRDNRGKSDESGEEEEEPPGEDIDSEEYDEEENDDHPRKKKKKERFGGFIIDEAEVDDEVDEDDEWEEGANEIGIVGNEIDELGPTARDIEIRRRGTNLWDTQKEDEIEEYLRKKYADESIAKRHFGDGGEEMSDEITQQTLLPGIKDPNLWMVKCRIGEEKATALLLMRKYLTYLNTDDPLQIKSIIAPEGVKGYIYLEAYKQTHVKTCIDNVGNLRMGKWKQEMVPIKEMTDVLKVVKEQVGLKVKQWVRLKRGLYKDDIAQVDYVDLAQNQVHLKLLPRIDYTRMRGALRTTATESDDSKRKKKRRPAAKPFDPEAVRAIGGEVHSDGDFLLFEGNRYSRKGFLYKNFTMSAILSDGVKPTLAELERFEESPEEVNLEIMGTVKDDPTMAHSFSMGDNVEVCVGDLENLQAKIVAIDGTMITVMPKHQDLKDPLIFKASELRKYFKTGDHARVLAGRYEGETGLIIRVEPTRVVLVSDLTNHELEVLPRDLQLCSDVATGVDCLGQFQWGDMVQLDSQNVGVIVRLERENFHVLGMNGKCIECKPTALHKRKENRHTVALDADQNQIRRRDVVKVMEGPHAGRSGEIKHLYRSLAFLHCRMYTENGGIFVCKTRHLQLAGGSKTTVSNAGIVGGLGFMSPRIQSPMHPSGGRGARGGARGGRGGFRVTRDREILGKTIKISGGPYKGAVGIVKDATESTARVELHTSCQTISVDRNHIAIVGVTGKEGSVSTYGRTPARTPGYGAQTPSYTAAGSKTPLVGSQTPNWDTDTRTPYGTMTPSHDGSMTPRHGAWDPTANTTPARNNDFDYSLEEPSPSPGYNPSTPGYQMTSQFAPQTPGTLYGSDRSYSPFNPSPSPAPSPYPVGYMNTPSPSTYSPNTPGGIPQSPYNPQTPGASLDSSMGDWCTTDIEVRIHTHDDTDLVGQTGIIRTVSNGVCSVFLRQEDRSVSIVSEHLAPVLPCNGDEFKIIYGDDRESVGRVLSKDGDVFVCRINEEIKLLPINFLCKMKSID |
| 1636 | sp|Q01130|SRSF2\_HUMAN | MSYGRPPPDVEGMTSLKVDNLTYRTSPDTLRRVFEKYGRVGDVYIPRDRYTKESRGFAFVRFHDKRDAEDAMDAMDGAVLDGRELRVQMARYGRPPDSHHSRRGPPPRRYGGGGYGRRSRSPRRRRRSRSRSRSRSRSRSRSRYSRSKSRSRTRSRSRSTSKSRSARRSKSKSSSVSRSRSRSRSRSRSRSPPPVSKRESKSRSRSKSPPKSPEEEGAVSS |
| 1637 | sp|O15269|SPTC1\_HUMAN | MATATEQWVLVEMVQALYEAPAYHLILEGILILWIIRLLFSKTYKLQERSDLTVKEKEELIEEWQPEPLVPPVPKDHPALNYNIVSGPPSHKTVVNGKECINFASFNFLGLLDNPRVKAAALASLKKYGVGTCGPRGFYGTFDVHLDLEDRLAKFMKTEEAIIYSYGFATIASAIPAYSKRGDIVFVDRAACFAIQKGLQASRSDIKLFKHNDMADLERLLKEQEIEDQKNPRKARVTRRFIVVEGLYMNTGTICPLPELVKLKYKYKARIFLEESLSFGVLGEHGRGVTEHYGINIDDIDLISANMENALASIGGFCCGRSFVIDHQRLSGQGYCFSASLPPLLAAAAIEALNIMEENPGIFAVLKEKCGQIHKALQGISGLKVVGESLSPAFHLQLEESTGSREQDVRLLQEIVDQCMNRSIALTQARYLEKEEKCLPPPSIRVVVTVEQTEEELERAASTIKEVAQAVLL |
| 1638 | sp|Q9V853|SMUF1\_DROME | MNKLDYPRRNGTHKVRITILCARNLARKDLFRLPDPFAKVQVDGTGQVYSTEISKSSLDPKWNAHYDLFLGIGDAITITVWNQRKIHKGSGFLGCVRIPAFNIQSLKGAGFQRLDLGKLSPDDDELVRGQIIISLLSKDGPSSGNPLAIVGPSGDVRGPSEDDSSEDSLPEGWEERRTDNGRVYYVNHATKSTQWDRPRQPGVVGSSHATSPQQRHNTHNGNSGDRQAPAGPTRSTTCTNLMNNGHRSRDLSVTASDERRHSTEILSSVGKENTSPTTPVSATTTPGKKTSSSNSSSAGGRTLEQRPTNEPATPTSSTTSASVRLHSNDNHVKTPKHQTNGHAPPESTPTSPTGQQNYVNGNAQNGSTSGNGSGQAAQPQSASNGWTQEDAATTTSPSTTTSPPRHSQSPPTPNISPPASVTPSANGNVHSPNANSTPAGSGGGSRSYTAATPGQRSQRRSSRQQGEESSTRRRSSRGTRNGGTSGGGGGGGSGQRYASAAIAAANQAARPFLDLPPGYEMRTTQQGQVYFYHIPTGVSTWHDPRIPRDFDTQHLTLDAIGPLPSGWEQRKTASGRVYFVDHNNRTTQFTDPRLSGSILQMIRRGTVPPTSAANAGTPAPPSATPATPSAAAAVPPQATPASNATPTTLTTTTNPPHRIVPDLPQGLLEGADLLPKYRRDLVGKLRALRTELQTMQPQSGHCRLEVSRNEIFEESYRLIMKMRAKDMRKRLMVKFKGEEGLDYGGVAREWLHLLSREMLNPQYGLFQYSRDDHYTLQINPDSGVNPDHLSYFHFVGRTLGIAVFHGHCLDGGFTTPFYKQLLNKPITLGDIEGVDPDLHRSLTWMLESNISGIIESTFSVENNSFGALVVHELKPGGASIPVTEENKREYVKLYVNYRFMRGIEQQFLALQKGFCELIPSHLLRPFDERELELVIGGISSIDVNDWRNNTRLKHCTNETTQVLWFWQVVESYSSEMRARLLQFVTGSSRVPLQGFRALQGSTGAVGPRLFTIHLTADVPTQNLPKAHTCFNRIDLPPYETYQLLCDKLTQAVEETCGFAVE |
| 1639 | sp|Q9UBC9|SPRR3\_HUMAN | MSSYQQKQTFTPPPQLQQQQVKQPSQPPPQEIFVPTTKEPCHSKVPQPGNTKIPEPGCTKVPEPGCTKVPEPGCTKVPEPGCTKVPEPGCTKVPEPGCTKVPEPGYTKVPEPGSIKVPDQGFIKFPEPGAIKVPEQGYTKVPVPGYTKLPEPCPSTVTPGPAQQKTKQK |
| 1640 | sp|Q5ABD0|SNF7\_CANAL | MWGYFFGGNSQQKKDLPKKAIVELREHIQTLNKKKNHLQQQMDDQDQLARKYVSSKQTTLAKSALKRKKGYESNLLKVENQIETLETQLISIEGANLNLETMKAMKQGAKAMKQIHGEYDVDKVEDTMDEIREQVELADEISEAISRPVGNEFVDEDELDEELKELEAEAKEQEQEHRVPAQKAKPQPVSREEELPQFPSVNKKAPVVEEDEDEEALKALQAEMGL |
| 1641 | sp|Q84WN3|SWT17\_ARATH | MAEASFYIGVIGNVISVLVFLSPVETFWKIVKRRSTEEYKSLPYICTLLGSSLWTYYGIVTPGEYLVSTVNGFGALVETIYVSLFLFYAPRHLKLKTVDVDAMLNVFFPIAAIVATRSAFEDEKMRSQSIGFISAGLNIIMYGSPLSAMKTVVTTKSVKYMPFWLSFFLFLNGAIWAVYALLQHDVFLLVPNGVGFVFGTMQLILYGIYRNAKPVGLSNGLSEIAQDEEEGLTSRVEPLLS |
| 1642 | sp|Q91604|STK11\_XENLA | MLCPSSMDEEGSEEIGFLGDLSVGMDTFIHRIDSTEVIYQPRRKRAKLVGKYLMGDLLGEGSYGKVKEMLDSDTLCRRAVKILKKKKLRRIPNGEANVKKEIQLLRRLRHRNVIQLVDVLYNEEKQKMYMVMEYCVCGMQEMLDSVQDKHFPVFQAHGYFCQLIDGLEYLHSQGIVHKDIKPGNLLLTTDGTLKISDLGVAEALHPFAEGDTCRTSQGSPAFQPPEIANGLDTFSGFKVDIWSAGVTLYNITTGLYPFEGDNIYKLFENIGKGDYSIPEECGPLLSDLLRGMLEYDPAKRFSIQQIRQHNWFRKKHPHMDPIVPIPPSPETKDRWRSLTVVPYLEDLHGYSEEEDLCDFEDDIIYTQDFTVPGQVAEDDYFAQTQSTAPSKQLCMNGTESQLKTERRVSSSSQRKASTTGSKVRKLSACKQQ |
| 1643 | sp|P54000|SUB1\_YEAST | MSYYNRYRNKRRSDNGGGNLSNSNNNNGGMPSGLSASDAIFDLGKNKRVTVRQFRNINLIDIREYYLDSSTGEMKPGKKGISLTEDLYDELLKHRLNIDEALRRLGSKRPKTKMVRLLSDDEYEDDNNNDSTNNDKDKNGKDKNSPKKRREDKSKASNESHDLEPRSKKKKPAPPTLLPHEENIQNAEREANATLIIPGQAGRKQQEERKQKEKEEAEEAKAKAVAEQEKEAKAKEKIAEPEPEPVPTLQAKKEDIVSNINESKDANSSDEEFAQSLEAEMNKAEDDISEEE |
| 1644 | sp|Q9NSD9|SYFB\_HUMAN | MPTVSVKRDLLFQALGRTYTDEEFDELCFEFGLELDEITSEKEIISKEQGNVKAAGASDVVLYKIDVPANRYDLLCLEGLVRGLQVFKERIKAPVYKRVMPDGKIQKLIITEETAKIRPFAVAAVLRNIKFTKDRYDSFIELQEKLHQNICRKRALVAIGTHDLDTLSGPFTYTAKRPSDIKFKPLNKTKEYTACELMNIYKTDNHLKHYLHIIENKPLYPVIYDSNGVVLSMPPIINGDHSRITVNTRNIFIECTGTDFTKAKIVLDIIVTMFSEYCENQFTVEAAEVVFPNGKSHTFPELAYRKEMVRADLINKKVGIRETPENLAKLLTRMYLKSEVIGDGNQIEIEIPPTRADIIHACDIVEDAAIAYGYNNIQMTLPKTYTIANQFPLNKLTELLRHDMAAAGFTEALTFALCSQEDIADKLGVDISATKAVHISNPKTAEFQVARTTLLPGLLKTIAANRKMPLPLKLFEISDIVIKDSNTDVGAKNYRHLCAVYYNKNPGFEIIHGLLDRIMQLLDVPPGEDKGGYVIKASEGPAFFPGRCAEIFARGQSVGKLGVLHPDVITKFELTMPCSSLEINVGPFL |
| 1645 | sp|O44783|SPY\_DROME | MDRRNGGDPLAPPRPPKLLPRVHRPRAPEPTLSGVDHNAGATASALASGASSAAPVAIHNNNSQQQLSISAAASNNNTISIIPASPDFDDYQIHHLTFLPQRPSSLSRNSSTASSTTATGISVSGSGSVSGSSSSFTRRRPPAPVPLNNSISNNNNNSINNNFLSHFQSAEPASNALGQPPASPVTLAQPRPESERLTNEYVDTPLQHATRSQHPAGQQDNGQTTTHHLLLLPQRNQHLHLQQHQQHLQQQQQQQQQQQQQQHLQHQQNQQHARLATTTQATSVGSDHTDGLLHSHLQNSTTKPPASKQPAPPRLGMGLGLGLGLGLNQPIITKQPTPATQKERMHALEELLQPGGAGGNGGPLVMAGDPSLLNPIVCPRCGRCRCEQCQSPRPLPQTWVCNKTCLCSAESVIDYASCLCCAKALFYHCARDNDLDCDDGNGTPCVDNPCSCGPYKRTQRWGWLGALSIFLPCLWFYWPMRGCMKLCEKCYGRFAGRGCRCQGIGGGGAGSGGGVGSIGSTSSMLPIVPLGVNGSGLGGGVSLSGGVTDGGLNQANGKAMDHGCSAARSILRKGDLTPEKRLLDSSPDY |
| 1646 | sp|Q58DZ9|SYNG1\_RAT | MDGIVEQKSVLVHSKIGDAGKRNGLINTRNFMAESRDGLVSVYPAPQYQSHRLVASAAPGSLEGGRSDPVQQLLDPNTLQQSVDSHYRPNIILYSDGVLRSWGDGVATDCCETTFIEDRSPTKDSLEYPDGKFIDLSGDDIKIHTLSYDVEEEEELQELESDYSSDTESEDNFLMMPPRDHLGLSVFSMLCCFWPLGIAAFYLSHETNKAVAKGDFHQASTSSRRALFLAVLSITIGTGIYVGVAVALIAYLSKNNHL |
| 1647 | sp|Q92752|TENR\_HUMAN | MGADGETVVLKNMLIGINLILLGSMIKPSECQLEVTTERVQRQSVEEEGGIANYNTSSKEQPVVFNHVYNINVPLDNLCSSGLEASAEQEVSAEDETLAEYMGQTSDHESQVTFTHRINFPKKACPCASSAQVLQELLSRIEMLEREVSVLRDQCNANCCQESAATGQLDYIPHCSGHGNFSFESCGCICNEGWFGKNCSEPYCPLGCSSRGVCVDGQCICDSEYSGDDCSELRCPTDCSSRGLCVDGECVCEEPYTGEDCRELRCPGDCSGKGRCANGTCLCEEGYVGEDCGQRQCLNACSGRGQCEEGLCVCEEGYQGPDCSAVAPPEDLRVAGISDRSIELEWDGPMAVTEYVISYQPTALGGLQLQQRVPGDWSGVTITELEPGLTYNISVYAVISNILSLPITAKVATHLSTPQGLQFKTITETTVEVQWEPFSFSFDGWEISFIPKNNEGGVIAQVPSDVTSFNQTGLKPGEEYIVNVVALKEQARSPPTSASVSTVIDGPTQILVRDVSDTVAFVEWIPPRAKVDFILLKYGLVGGEGGRTTFRLQPPLSQYSVQALRPGSRYEVSVSAVRGTNESDSATTQFTTEIDAPKNLRVGSRTATSLDLEWDNSEAEVQEYKVVYSTLAGEQYHEVLVPRGIGPTTRATLTDLVPGTEYGVGISAVMNSQQSVPATMNARTELDSPRDLMVTASSETSISLIWTKASGPIDHYRITFTPSSGIASEVTVPKDRTSYTLTDLEPGAEYIISVTAERGRQQSLESTVDAFTGFRPISHLHFSHVTSSSVNITWSDPSPPADRLILNYSPRDEEEEMMEVSLDATKRHAVLMGLQPATEYIVNLVAVHGTVTSEPIVGSITTGIDPPKDITISNVTKDSVMVSWSPPVASFDYYRVSYRPTQVGRLDSSVVPNTVTEFTITRLNPATEYEISLNSVRGREESERICTLVHTAMDNPVDLIATNITPTEALLQWKAPVGEVENYVIVLTHFAVAGETILVDGVSEEFRLVDLLPSTHYTATMYATNGPLTSGTISTNFSTLLDPPANLTASEVTRQSALISWQPPRAEIENYVLTYKSTDGSRKELIVDAEDTWIRLEGLLENTDYTVLLQAAQDTTWSSITSTAFTTGGRVFPHPQDCAQHLMNGDTLSGVYPIFLNGELSQKLQVYCDMTTDGGGWIVFQRRQNGQTDFFRKWADYRVGFGNVEDEFWLGLDNIHRITSQGRYELRVDMRDGQEAAFASYDRFSVEDSRNLYKLRIGSYNGTAGDSLSYHQGRPFSTEDRDNDVAVTNCAMSYKGAWWYKNCHRTNLNGKYGESRHSQGINWYHWKGHEFSIPFVEMKMRPYNHRLMAGRKRQSLQF |
| 1648 | sp|Q3UNW5|TF2L1\_MOUSE | MLFWHTQPEHYNQHNSGSYLRDVLALPIFKQEEPQLSPENGARLPPLQYVLCAATSPAVKLHEETLTYLNQGQSYEIRLLENRKLGDFQDLNTKYVKSIIRVVFHDRRLQYTEYQQLEGWRWSRPGDRILDIDIPLSVGILDPRASPTQLNAVEFLWDPSKRASAFIQVHCISTEFTPRKHGGEKGVPFRVQIDTFKQNESGDYSEHLHSASCQIKVFKPKGADRKQKTDREKMEKRTAQEKEKYQPSYETTILTECSPWPDVPYQANNTPSPSYNGSPNSFGLREGNSSPNHPVEPLPLGSDHLLPSASIQDAQQWLHRNRFSQFCWLFASFSGADLLKMSRDDLVQVCGPADGIRLFNAIKGRNVRPKMTIYVCQELEQNQLPLPQKQDDSGDNSLCVYHAIFLEELTTLELTEKIASLYSIPPQHIHRVYRQGPAGIHVVVSNEMVQNFQDESCFILSTLKAESNDGYHIILKCGL |
| 1649 | sp|O61307|TENM\_DROME | MNPYEYESTLDCRDVGGGPTPAHAHPHAQGRTLPMSGHGRPTTDLGPVHGSQTLQHQNQQNLQAAQAAAQSSHYDYEYQHLAHRPPDTANNTAQRTHGRQGFLLEGVTPTAPPDVPPRNPTMSRMQNGRLTVNNPNDADFEPSCLVRTPSGNVYIPSGNLNINKGSPIDFKSGSACSTPTKDTLKGYERSTQGCMGPVLPQRSVMNGLPAHHYSAPMNFRKDLVARCSSPWFGIGSISVLFAFVVMLILLTTTGVIKWNQSPPCSVLVGNEASEVTAAKSTNTDLSKLHNSSVRAKNGQGIGLAQGQSGLGAAGVGSGGGSSAATVTTATSNSGTAQGLQSTSASAEATSSAATSSSQSSLTPSLSSSLANANNGGARTFPARSFPPDGTTFGQITLGQKLTKEIQPYSYWNMQFYQSEPAYVKFDYTIPRGASIGVYGRRNALPTHTQYHFKEVLSGFSASTRTARAAHLSITREVTRYMEPGHWFVSLYNDDGDVQELTFYAAVAEDMTQNCPNGCSGNGQCLLGHCQCNPGFGGDDCSESVCPVLCSQHGEYTNGECICNPGWKGKECSLRHDECEVADCSGHGHCVSGKCQCMRGYKGKFCEEVDCPHPNCSGHGFCADGTCICKKGWKGPDCATMDQDALQCLPDCSGHGTFDLDTQTCTCEAKWSGDDCSKELCDLDCGQHGRCEGDACACDPEWGGEYCNTRLCDVRCNEHGQCKNGTCLCVTGWNGKHCTIEGCPNSCAGHGQCRVSGEGQWECRCYEGWDGPDCGIALELNCGDSKDNDKDGLVDCEDPECCASHVCKTSQLCVSAPKPIDVLLRKQPPAITASFFERMKFLIDESSLQNYAKLETFNESRSAVIRGRVVTSLGMGLVGVRVSTTTLLEGFTLTRDDGWFDLMVNGGGAVTLQFGRAPFRPQSRIVQVPWNEVVIIDLVVMSMSEEKGLAVTTTHTCFAHDYDLMKPVVLASWKHGFQGACPDRSAILAESQVIQESLQIPGTGLNLVYHSSRAAGYLSTIKLQLTPDVIPTSLHLIHLRITIEGILFERIFEADPGIKFTYAWNRLNIYRQRVYGVTTAVVKVGYQYTDCTDIVWDIQTTKLSGHDMSISEVGGWNLDIHHRYNFHEGILQKGDGSNIYLRNKPRIILTTMGDGHQRPLECPDCDGQATKQRLLAPVALAAAPDGSLFVGDFNYIRRIMTDGSIRTVVKLNATRVSYRYHMALSPLDGTLYVSDPESHQIIRVRDTNDYSQPELNWEAVVGSGERCLPGDEAHCGDGALAKDAKLAYPKGIAISSDNILYFADGTNIRMVDRDGIVSTLIGNHMHKSHWKPIPCEGTLKLEEMHLRWPTELAVSPMDNTLHIIDDHMILRMTPDGRVRVISGRPLHCATASTAYDTDLATHATLVMPQSIAFGPLGELYVAESDSQRINRVRVIGTDGRIAPFAGAESKCNCLERGCDCFEAEHYLATSAKFNTIAALAVTPDSHVHIADQANYRIRSVMSSIPEASPSREYEIYAPDMQEIYIFNRFGQHVSTRNILTGETTYVFTYNVNTSNGKLSTVTDAAGNKVFLLRDYTSQVNSIENTKGQKCRLRMTRMKMLHELSTPDNYNVTYEYHGPTGLLRTKLDSTGRSYVYNYDEFGRLTSAVTPTGRVIELSFDLSVKGAQVKVSENAQKEMSLLIQGATVIVRNGAAESRTTVDMDGSTTSITPWGHNLQMEVAPYTILAEQSPLLGESYPVPAKQRTEIAGDLANRFEWRYFVRRQQPLQAGKQSKGPPRPVTEVGRKLRVNGDNVLTLEYDRETQSVVVMVDDKQELLNVTYDRTSRPISFRPQSGDYADVDLEYDRFGRLVSWKWGVLQEAYSFDRNGRLNEIKYGDGSTMVYAFKDMFGSLPLKVTTPRRSDYLLQYDDAGALQSLTTPRGHIHAFSLQTSLGFFKYQYYSPINRHPFEILYNDEGQILAKIHPHQSGKVAFVHDTAGRLETILAGLSSTHYTYQDTTSLVKSVEVQEPGFELRREFKYHAGILKDEKLRFGSKNSLASARYKYAYDGNARLSGIEMAIDDKELPTTRYKYSQNLGQLEVVQDLKITRNAFNRTVIQDSAKQFFAIVDYDQHGRVKSVLMNVKNIDVFRLELDYDLRNRIKSQKTTFGRSTAFDKINYNADGHVVEVLGTNNWKYLFDENGNTVGVVDQGEKFNLGYDIGDRVIKVGDVEFNNYDARGFVVKRGEQKYRYNNRGQLIHSFERERFQSWYYYDDRSRLVAWHDNKGNTTQYYYANPRTPHLVTHVHFPKISRTMKLFYDDRDMLIALEHEDQRYYVATDQNGSPLAFFDQNGSIVKEMKRTPFGRIIKDTKPEFFVPIDFHGGLIDPHTKLVYTEQRQYDPHVGQWMTPLWETLATEMSHPTDVFIYRYHNNDPINPNKPQNYMIDLDSWLQLFGYDLNNMQSSRYTKLAQYTPQASIKSNTLAPDFGVISGLECIVEKTSEKFSDFDFVPKPLLKMEPKMRNLLPRVSYRRGVFGEGVLLSRIGGRALVSVVDGSNSVVQDVVSSVFNNSYFLDLHFSIHDQDVFYFVKDNVLKLRDDNEELRRLGGMFNISTHEISDHGGSAAKELRLHGPDAVVIIKYGVDPEQERHRILKHAHKRAVERAWELEKQLVAAGFQGRGDWTEEEKEELVQHGDVDGWNGIDIHSIHKYPQLADDPGNVAFQRDAKRKRRKTGSSHRSASNRRQLKFGELSA |
| 1650 | sp|P27859|TATD\_ECOLI | MFDIGVNLTSSQFAKDRDDVVACAFDAGVNGLLITGTNLRESQQAQKLARQYSSCWSTAGVHPHDSSQWQAATEEAIIELAAQPEVVAIGECGLDFNRNFSTPEEQERAFVAQLRIAADLNMPVFMHCRDAHERFMTLLEPWLDKLPGAVLHCFTGTREEMQACVAHGIYIGITGWVCDERRGLELRELLPLIPAEKLLIETDAPYLLPRDLTPKPSSRRNEPAHLPHILQRIAHWRGEDAAWLAATTDANVKTLFGIAF |
| 1651 | sp|P48643|TCPE\_HUMAN | MASMGTLAFDEYGRPFLIIKDQDRKSRLMGLEALKSHIMAAKAVANTMRTSLGPNGLDKMMVDKDGDVTVTNDGATILSMMDVDHQIAKLMVELSKSQDDEIGDGTTGVVVLAGALLEEAEQLLDRGIHPIRIADGYEQAARVAIEHLDKISDSVLVDIKDTEPLIQTAKTTLGSKVVNSCHRQMAEIAVNAVLTVADMERRDVDFELIKVEGKVGGRLEDTKLIKGVIVDKDFSHPQMPKKVEDAKIAILTCPFEPPKPKTKHKLDVTSVEDYKALQKYEKEKFEEMIQQIKETGANLAICQWGFDDEANHLLLQNNLPAVRWVGGPEIELIAIATGGRIVPRFSELTAEKLGFAGLVQEISFGTTKDKMLVIEQCKNSRAVTIFIRGGNKMIIEEAKRSLHDALCVIRNLIRDNRVVYGGGAAEISCALAVSQEADKCPTLEQYAMRAFADALEVIPMALSENSGMNPIQTMTEVRARQVKEMNPALGIDCLHKGTNDMKQQHVIETLIGKKQQISLATQMVRMILKIDDIRKPGESEE |
| 1652 | sp|Q06510|TAZ1\_YEAST | MSFRDVLERGDEFLEAYPRRSPLWRFLSYSTSLLTFGVSKLLLFTCYNVKLNGFEKLETALERSKRENRGLMTVMNHMSMVDDPLVWATLPYKLFTSLDNIRWSLGAHNICFQNKFLANFFSLGQVLSTERFGVGPFQGSIDASIRLLSPDDTLDLEWTPHSEVSSSLKKAYSPPIIRSKPSWVHVYPEGFVLQLYPPFENSMRYFKWGITRMILEATKPPIVVPIFATGFEKIASEAVTDSMFRQILPRNFGSEINVTIGDPLNDDLIDRYRKEWTHLVEKYYDPKNPNDLSDELKYGKEAQDLRSRLAAELRAHVAEIRNEVRKLPREDPRFKSPSWWKRFNTTEGKSDPDVKVIGENWAIRRMQKFLPPEGKPKGKDD |
| 1653 | sp|Q53R12|T4S20\_HUMAN | MTCCEGWTSCNGFSLLVLLLLGVVLNAIPLIVSLVEEDQFSQNPISCFEWWFPGIIGAGLMAIPATTMSLTARKRACCNNRTGMFLSSLFSVITVIGALYCMLISIQALLKGPLMCNSPSNSNANCEFSLKNISDIHPESFNLQWFFNDSCAPPTGFNKPTSNDTMASGWRASSFHFDSEENKHRLIHFSVFLGLLLVGILEVLFGLSQIVIGFLGCLCGVSKRRSQIV |
| 1654 | sp|P62340|TBPL1\_MOUSE | MDADSDVALDILITNVVCVFRTRCHLNLRKIALEGANVIYKRDVGKVLMKLRKPRITATIWSSGKIICTGATSEEEAKFGARRLARSLQKLGFQVIFTDFKVVNVLAVCNMPFEIRLPEFTKNNRPHASYEPELHPAVCYRIKSLRATLQIFSTGSITVTGPNVKAVATAVEQIYPFVFESRKEIL |
| 1655 | sp|P70324|TBX3\_MOUSE | MSLSMRDPVIPGTSMAYHPFLPHRAPDFAMSAVLGHQPPFFPALTLPPNGAAALSLPGALAKPIMDQLVGAAETGIPFSSLGPQAHLRPLKTMEPEEDVEDDPKVHLEAKELWDQFHKRGTEMVITKSGRRMFPPFKVRCSGLDKKAKYILLMDIIAADDCRYKFHNSRWMVAGKADPEMPKRMYIHPDSPATGEQWMSKVVTFHKLKLTNNISDKHGFTLAFPSDHATWQGNYSFGTQTILNSMHKYQPRFHIVRANDILKLPYSTFRTYLFPETEFIAVTAYQNDKITQLKIDNNPFAKGFRDTGNGRREKRKQLTLQSMRVFEERHKKETSDESSSEQAAFNCFAQASSPAVSIVGTSNLKDLCPSEAESDAEAESKEEHGPEACDAAKISTTTAEEPGRDKGSPATRAQLFPAEPSRARDTARLDKASPDSRHSPATISSSTRVPGADERRSPGREGPVATKVDEARAIPAKDAFAPLSVQTDATAHLAQGPLPGLGFAPGLAGQQFFNGHPLFLHPGQFAMGGAFSSMAAGMGPLLATVSGASTGVSGLESTAMASAAAAQGLSGASAATLPFHLQQHVLASQGLAMSPFGSLFPYPYTYMAAAAAASTAAASSSVHRHPFLNLNSMRPRLRYSPYSIPVPVPDSSSLLATALPSMASAAGPLDGKAAALAASPASVAVDSGSELNSRSSTLSSGSVSLSPKLCSEKEAATSELQSIQRLVSGLEAKPDRSCSGSP |
| 1656 | sp|Q96SF7|TBX15\_HUMAN | MSERRRSAVALSSRAHAFSVEALIGSNKKRKLRDWEEKGLDLSMEALSPAGPLGDTEDAAAHGLEPHPDSEQSTGSDSEVLTERTSCSFSTHTDLASGAAGPVPAAMSSMEEIQVELQCADLWKRFHDIGTEMIITKAGRRMFPAMRVKITGLDPHQQYYIAMDIVPVDNKRYRYVYHSSKWMVAGNADSPVPPRVYIHPDSLASGDTWMRQVVSFDKLKLTNNELDDQGHIILHSMHKYQPRVHVIRKDFSSDLSPTKPVPVGDGVKTFNFPETVFTTVTAYQNQQITRLKIDRNPFAKGFRDSGRNRTGLEAIMETYAFWRPPVRTLTFEDFTTMQKQQGGSTGTSPTTSSTGTPSPSASSHLLSPSCSPPTFHLAPNTFNVGCRESQLCNLNLSDYPPCARSNMAALQSYPGLSDSGYNRLQSGTTSATQPSETFMPQRTPSLISGIPTPPSLPGNSKMEAYGGQLGSFPTSQFQYVMQAGNAASSSSSPHMFGGSHMQQSSYNAFSLHNPYNLYGYNFPTSPRLAASPEKLSASQSTLLCSSPSNGAFGERQYLPSGMEHSMHMISPSPNNQQATNTCDGRQYGAVPGSSSQMSVHMV |
| 1657 | sp|A0A0H2V8B5|TCPC\_ECOL6 | MIAYENIEFFICLVNVLGNNMYNILFFIFLSIAIPFLLFLAWKQHLKTKEIRSYLLKEGYNIIFNGEGNSYLAFNISNATFRAGNLTSNDYFQASISYIHDYRWEWKEVEAKKINNIFIIYISNIDFPSQKLFYRNNKSLAEIDWAKLQAIFHQPYEIQNDVMQDNNNTHYDFFISHAKEDKDTFVRPLVDELNRLGVIIWYDEQTLEVGDSLRRNIDLGLRKANYGIVILSHNFLNKKWTQYELDSLINRAVYDDNKIILPIWHNINAQEVSKYSHYLADKMALQTSLYSVKEIARELAEIAYRRR |
| 1658 | sp|Q8AXX2|TBX1\_DANRE | MISAISSPWLTQLSHFCDVAAFTTSSLSSLNTPGSYHLSPSPGDPYSHHESQFEPCPAAQHAYNYSGSNSAQAPAQGDSGTSNCSSSSSSSTPNKTLVKKNPKVANINVQLEMKALWDEFNQLGTEMIVTKAGRRMFPTFQVKIFGMDPMADYMLLMDFLPVDDKRYRYAFHSSSWLVAGKADPATPGRVHYHPDSPAKGAQWMKQIVSFDKLKLTNNLLDDNGHIILNSMHRYQPRFHVVYVDPRKDSEKYAEENYKTFVFEETRFTAVTAYQNHRITQLKIASNPFAKGFRDCDPEDWPRNHRPGSLQIMSAFARTRNPMSSPPQQNGTEKEDSRREYDRDPSGNPLHSDPTHQLMSRVLSPALPVLGGLHAVPLTAGPRSPPHELRLDGHPQPPDTLHHHPYKYPATYEHYLGAKTRPSPYPSPSIRGHGYHPHMNPTTANMYSATSAPTNYDYGPR |
| 1659 | sp|O00268|TAF4\_HUMAN | MAAGSDLLDEVFFNSEVDEKVVSDLVGSLESQLAASAAHHHHLAPRTPEVRAAAAGALGNHVVSGSPAGAAGAGPAAPAEGAPGAAPEPPPAGRARPGGGGPQRPGPPSPRRPLVPAGPAPPAAKLRPPPEGSAGSCAPVPAAAAVAAGPEPAPAGPAKPAGPAALAARAGPGPGPGPGPGPGPGPGKPAGPGAAQTLNGSAALLNSHHAAAPAVSLVNNGPAALLPLPKPAAPGTVIQTPPFVGAAAPPAPAAPSPPAAPAPAAPAAAPPPPPPAPATLARPPGHPAGPPTAAPAVPPPAAAQNGGSAGAAPAPAPAAGGPAGVSGQPGPGAAAAAPAPGVKAESPKRVVQAAPPAAQTLAASGPASTAASMVIGPTMQGALPSPAAVPPPAPGTPTGLPKGAAGAVTQSLSRTPTATTSGIRATLTPTVLAPRLPQPPQNPTNIQNFQLPPGMVLVRSENGQLLMIPQQALAQMQAQAHAQPQTTMAPRPATPTSAPPVQISTVQAPGTPIIARQVTPTTIIKQVSQAQTTVQPSATLQRSPGVQPQLVLGGAAQTASLGTATAVQTGTPQRTVPGATTTSSAATETMENVKKCKNFLSTLIKLASSGKQSTETAANVKELVQNLLDGKIEAEDFTSRLYRELNSSPQPYLVPFLKRSLPALRQLTPDSAAFIQQSQQQPPPPTSQATTALTAVVLSSSVQRTAGKTAATVTSALQPPVLSLTQPTQVGVGKQGQPTPLVIQQPPKPGALIRPPQVTLTQTPMVALRQPHNRIMLTTPQQIQLNPLQPVPVVKPAVLPGTKALSAVSAQAAAAQKNKLKEPGGGSFRDDDDINDVASMAGVNLSEESARILATNSELVGTLTRSCKDETFLLQAPLQRRILEIGKKHGITELHPDVVSYVSHATQQRLQNLVEKISETAQQKNFSYKDDDRYEQASDVRAQLKFFEQLDQIEKQRKDEQEREILMRAAKSRSRQEDPEQLRLKQKAKEMQQQELAQMRQRDANLTALAAIGPRKKRKVDCPGPGSGAEGSGPGSVVPGSSGVGTPRQFTRQRITRVNLRDLIFCLENERETSHSLLLYKAFLK |
| 1660 | sp|Q13148|TADBP\_HUMAN | MSEYIRVTEDENDEPIEIPSEDDGTVLLSTVTAQFPGACGLRYRNPVSQCMRGVRLVEGILHAPDAGWGNLVYVVNYPKDNKRKMDETDASSAVKVKRAVQKTSDLIVLGLPWKTTEQDLKEYFSTFGEVLMVQVKKDLKTGHSKGFGFVRFTEYETQVKVMSQRHMIDGRWCDCKLPNSKQSQDEPLRSRKVFVGRCTEDMTEDELREFFSQYGDVMDVFIPKPFRAFAFVTFADDQIAQSLCGEDLIIKGISVHISNAEPKHNSNRQLERSGRFGGNPGGFGNQGGFGNSRGGGAGLGNNQGSNMGGGMNFGAFSINPAMMAAAQAALQSSWGMMGMLASQQNQSGPSGNNQNQGNMQREPNQAFGSGNNSYSGSNSGAAIGWGSASNAGSGSGFNGGFGSSMDSKSSGWGM |
| 1661 | sp|Q8L4M1|THOC6\_ARATH | MYGDATNWNEDEYRESILKEREIETRTVFRTAWAPPARISNPDAFVVASSDGTLAFHSLNSLVSQSASFGYSKGQDVMVAEPERVVRAHEGPAYDVKFYGEDEDALLLSCGDDGRVRGWKWREFAESDVSLHLKENHLKPLLELINPQHKGPWGALSPMPEINAMSVDPQSGSVFTAAGDSCAYCWDVESGKIKMTFKGHSDYLHTVVSRSSASQILTGSEDGTARIWDCKTGKCVKVIGSQDKKSRLRVSSMALDGSESWLVCGQGKNLALWNLPASECVQTIPIPAHVQDVMFDEKQILTVGAEPLLRRFDLNGALLSQIHCAPCSVFSISLHPAGVVAVGGYGGIVDVISQFGSHLCTFRSSSL |
| 1662 | sp|Q1LK00|T23O\_CUPMC | MSEFKGCPMGHGAAPQNGDGGDSGDTGNGWHGAQMDFARDMSYGDYLGLDQILSAQHPLSPDHNEMLFIVQHQTTELWMKLMLHELRAARDGVKSDQLQPAFKMLARVSRIMDQLVQAWNVLATMTPPEYSAMRPYLGASSGFQSYQYREIEFILGNKNAAMLRPHAHRPEHLELVETALHTPSMYDEAIRLMARRGFQIDPEVVERDWTQPTQYNASVEAAWLEVYRNPSAHWELYELGEKFVDLEDAFRQWRFRHVTTVERVIGFKRGTGGTEGVSYLRRMLDVVLFPELWKLRTDL |
| 1663 | sp|Q8CIV8|TBCE\_MOUSE | MSDILPLDVIGRRVEVNGEYATVRFCGAVPPVAGLWLGVEWDNPERGKHDGSHEGTMYFKCRHPTGGSFVRPSKVNFGDDFLTALKKRYVLEDGPDDDENSCSLKVGSKQVQTIGFEHITKKQSQLRALQDISLWNCAVSHAGEQGRIAEACPNIRVVNLSKNLLSTWDEVVLIAEQLKDLEALDLSENKLQFPSDSPTLTRTFSTLKTLVLNKTGITWTEVLHCAPSWPVLEELYLKSNNISISERPVNVLQKMRLLDLSSNPSIDESQLSLIADLPRLEHLVLSDIGLSSIHFPDAEIGCKTSMFPALKYLIVNDNQISEWSFINELDKLQSLQALSCTRNPLSKADKAEEIIIAKIAQLRTLNRCQILPEERRGAELDYRKAFGNEWRKAGGHPDPDKNRPNAAFLSAHPRYQLLCCKYGAPEDEELKTQQPFMLKKQLLTLKIKCSNQPERQILEKQLPDSMTVQKVKGLLSRLLKVPVSELLLSYESSKMPGREIELENDLQPLQFYSVENGDCLLVRW |
| 1664 | sp|Q96RS0|TGS1\_HUMAN | MCCEKWSRVAEMFLFIEEREDCKILCLCSRAFVEDRKLYNLGLKGYYIRDSGNNSGDQATEEEEGGYSCGTAESHDSKGIGLDESELDSEAELMRSMGLPLQFGRITAHKDFEVSMNTRNKVKIKKKKHQKKYLDEIVQESWRKEYEEDDILASDDPSSIEQYENTRTYELQSKKDTETENPPVENTLSPKLEITEKWEKYWNEYGGGLLWQSWQEKHPGQALSSEPWNFPDTKEEWEQHYSQLYWYYLEQFQYWEAQGWTFDASQSCDTDTYTSKTEADDKNDEKCMKVDLVSFPSSPIMVDNDSSGTSDKDHSEILDGISNIKLNSEEVTQSQLDSCTSHDGHQQLSEVSSKRECPASGQSEPRNGGTNEESNSSGNTNTDPPAEDSQKSSGANTSKDRPHASGTDGDESEEDPPEHKPSKLKRSHELDIDENPASDFDDSGSLLGFKYGSGQKYGGIPNFSHRQVRYLEKNVKLKSKYLDMRRQIKMKNKHIFFTKESEKPFFKKSKILSKVEKFLTWVNKPMDEEASQESSSHDNVHDASTSSDSEEQDMSVKKGDDLLETNNPEPEKCQSVSSAGELETENYERDSLLATVPDEQDCVTQEVPDSRQAETEAEVKKKKNKKKNKKVNGLPPEIAAVPELAKYWAQRYRLFSRFDDGIKLDREGWFSVTPEKIAEHIAGRVSQSFKCDVVVDAFCGVGGNTIQFALTGMRVIAIDIDPVKIALARNNAEVYGIADKIEFICGDFLLLASFLKADVVFLSPPWGGPDYATAETFDIRTMMSPDGFEIFRLSKKITNNIVYFLPRNADIDQVASLAGPGGQVEIEQNFLNNKLKTITAYFGDLIRRPASET |
| 1665 | sp|P57727|TMPS3\_HUMAN | MGENDPPAVEAPFSFRSLFGLDDLKISPVAPDADAVAAQILSLLPLKFFPIIVIGIIALILALAIGLGIHFDCSGKYRCRSSFKCIELIARCDGVSDCKDGEDEYRCVRVGGQNAVLQVFTAASWKTMCSDDWKGHYANVACAQLGFPSYVSSDNLRVSSLEGQFREEFVSIDHLLPDDKVTALHHSVYVREGCASGHVVTLQCTACGHRRGYSSRIVGGNMSLLSQWPWQASLQFQGYHLCGGSVITPLWIITAAHCVYDLYLPKSWTIQVGLVSLLDNPAPSHLVEKIVYHSKYKPKRLGNDIALMKLAGPLTFNEMIQPVCLPNSEENFPDGKVCWTSGWGATEDGAGDASPVLNHAAVPLISNKICNHRDVYGGIISPSMLCAGYLTGGVDSCQGDSGGPLVCQERRLWKLVGATSFGIGCAEVNKPGVYTRVTSFLDWIHEQMERDLKT |
| 1666 | sp|P31142|THTM\_ECOLI | MSTTWFVGADWLAEHIDDPEIQIIDARMASPGQEDRNVAQEYLNGHIPGAVFFDIEALSDHTSPLPHMLPRPETFAVAMRELGVNQDKHLIVYDEGNLFSAPRAWWMLRTFGVEKVSILGGGLAGWQRDDLLLEEGAVELPEGEFNAAFNPEAVVKVTDVLLASHENTAQIIDARPAARFNAEVDEPRPGLRRGHIPGALNVPWTELVREGELKTTDELDAIFFGRGVSYDKPIIVSCGSGVTAAVVLLALATLDVPNVKLYDGAWSEWGARADLPVEPVK |
| 1667 | sp|Q40392|TMVRN\_NICGU | MASSSSSSRWSYDVFLSFRGEDTRKTFTSHLYEVLNDKGIKTFQDDKRLEYGATIPGELCKAIEESQFAIVVFSENYATSRWCLNELVKIMECKTRFKQTVIPIFYDVDPSHVRNQKESFAKAFEEHETKYKDDVEGIQRWRIALNEAANLKGSCDNRDKTDADCIRQIVDQISSKLCKISLSYLQNIVGIDTHLEKIESLLEIGINGVRIMGIWGMGGVGKTTIARAIFDTLLGRMDSSYQFDGACFLKDIKENKRGMHSLQNALLSELLREKANYNNEEDGKHQMASRLRSKKVLIVLDDIDNKDHYLEYLAGDLDWFGNGSRIIITTRDKHLIEKNDIIYEVTALPDHESIQLFKQHAFGKEVPNENFEKLSLEVVNYAKGLPLALKVWGSLLHNLRLTEWKSAIEHMKNNSYSGIIDKLKISYDGLEPKQQEMFLDIACFLRGEEKDYILQILESCHIGAEYGLRILIDKSLVFISEYNQVQMHDLIQDMGKYIVNFQKDPGERSRLWLAKEVEEVMSNNTGTMAMEAIWVSSYSSTLRFSNQAVKNMKRLRVFNMGRSSTHYAIDYLPNNLRCFVCTNYPWESFPSTFELKMLVHLQLRHNSLRHLWTETKHLPSLRRIDLSWSKRLTRTPDFTGMPNLEYVNLYQCSNLEEVHHSLGCCSKVIGLYLNDCKSLKRFPCVNVESLEYLGLRSCDSLEKLPEIYGRMKPEIQIHMQGSGIRELPSSIFQYKTHVTKLLLWNMKNLVALPSSICRLKSLVSLSVSGCSKLESLPEEIGDLDNLRVFDASDTLILRPPSSIIRLNKLIILMFRGFKDGVHFEFPPVAEGLHSLEYLNLSYCNLIDGGLPEEIGSLSSLKKLDLSRNNFEHLPSSIAQLGALQSLDLKDCQRLTQLPELPPELNELHVDCHMALKFIHYLVTKRKKLHRVKLDDAHNDTMYNLFAYTMFQNISSMRHDISASDSLSLTVFTGQPYPEKIPSWFHHQGWDSSVSVNLPENWYIPDKFLGFAVCYSRSLIDTTAHLIPVCDDKMSRMTQKLALSECDTESSNYSEWDIHFFFVPFAGLWDTSKANGKTPNDYGIIRLSFSGEEKMYGLRLLYKEGPEVNALLQMRENSNEPTEHSTGIRRTQYNNRTSFYELING |
| 1668 | sp|Q5I0E7|TMED9\_RAT | MAAVRGVRVVGTSPGLLLGRGMRAFLLLLCLAARGGALYFHIGETEKKCFIEEIPDETMVIGNYRTQLYDKQREEYQPATPGLGMFVEVKDPEDKVILARQYGSEGRFTFTSHTPGEHQICLHSNSTKFSLFAGGMLRVHLDIQVGEHANDYAEIAAKDKLSELQLRVRQLVEQVEQIQKEQNYQRWREERFRQTSESTNQRVLWWSILQTLILVAIGVWQMRHLKSFFEAKKLV |
| 1669 | sp|P34693|SYT1\_CAEEL | MVKLDFSSQDEENDEDLTKEFVRDEAPMEETTSEAVKQIATTTKETLKDVVVNKVIDVKDVVKEKVMQQTGMPEWAFVFLGFVFILLVLACAFCLIRKLFGKKRHGEKNKKGGLKGFFGKGQDVVDGKNIQGMAQDLEELGDAMEQNEKEQAEEKEEVKLGRIQYKLDYDFQQGQLTVTVIQAEDLPGMDMSGTSDPYVKLYLLPEKKKKVETKVHRKTLNPVFNETFIFKVAFNEITAKTLVFAIYDFDRFSKHDQIGQVLIPLGKIDLGAVIEEWKDIAPPPDDKEAEKSLGDICFSLRYVPTAGKLTVVILEAKNLKKMDVGGLSDPYVKIVLMQGGKRLKKKKTSIKKCTLNPYYNESFSFEVPFEQIQKVSLMITVMDYDKLGSNDAIGRCLLGCNGTGAELRHWMDMLASPRRPIAQWHTLGPVEEEGDKKDDKK |
| 1670 | sp|P39515|TIM17\_YEAST | MSADHSRDPCPIVILNDFGGAFAMGAIGGVVWHGIKGFRNSPLGERGSGAMSAIKARAPVLGGNFGVWGGLFSTFDCAVKAVRKREDPWNAIIAGFFTGGALAVRGGWRHTRNSSITCACLLGVIEGVGLMFQRYAAWQAKPMAPPLPEAPSSQPLQA |
| 1671 | sp|P07200|TGFB1\_PIG | MPPSGLRLLPLLLPLLWLLVLTPGRPAAGLSTCKTIDMELVKRKRIEAIRGQILSKLRLASPPSQGDVPPGPLPEAVLALYNSTRDRVAGESVEPEPEPEADYYAKEVTRVLMVESGNQIYDKFKGTPHSLYMLFNTSELREAVPEPVLLSRAELRLLRLKLKVEQHVELYQKYSNDSWRYLSNRLLAPSDSPEWLSFDVTGVVRQWLTRREAIEGFRLSAHCSCDSKDNTLHVEINGFNSGRRGDLATIHGMNRPFLLLMATPLERAQHLHSSRHRRALDTNYCFSSTEKNCCVRQLYIDFRKDLGWKWIHEPKGYHANFCLGPCPYIWSLDTQYSKVLALYNQHNPGASAAPCCVPQALEPLPIVYYVGRKPKVEQLSNMIVRSCKCS |
| 1672 | sp|Q8L7L8|TRP1\_ARATH | MVSHKCVEEFGYASYLVPSNARAPRSARKRRSIEKRISKEDDNMCAIDLLATVAGHLSFESGSSLMSIDKLIEDHRVKEEFPEEEKPLMPVALSPYRGSLSPCGFSSVINGKVENEVDGFSYSGGSDACQVGNFSQDVKPDIDGDAVVLDARPNVVVSLGSSSRTEVPSIGNCVSHGVRDDVNLFSRDDDENFSKYIHPRVTKHSPRTVPRIGDRRIRKILASRHWKGGSRHSDTKPWRNYYLHQQRSYPIKKRKNFDHISDSVTDDYRMRTKMHRGSRKGQGASFVASDSHVKLRIKSFRVPELFIEIPETATVGSLKRMVMEAVSTLLSDGHRVGLMVQGKKVRDDNKTLHQTGISQDNSHLDSLDFSLEPSSEMPQLLTSHPLGHACEELLPVCQATKIDNVLESDHHDSALFPSDSLGNNNVTEDSKAMISVALNELSSQSQPPSRKSRRSEQQQQQAAQRRIRRPFSVAEVEALVQAVEKLGTGRWRDVKLCAFEDADHRTYVDLKDKWKTLVHTAKISPQQRRGEPVPQELLNRVLNAHGYWTQQQMQQLQQNVNKLEQETQSQTTEGLLLL |
| 1673 | sp|Q9R244|TRPC2\_MOUSE | MLMSRTDSKSGKNRSGVRMFKDGDFLTPASGESWDRLRLTCSQPFTRHQSFGLAFLRVRSSLGSLADPVVDPSAPGSSGLNQNSTDVLESDPRPWLTNPSIRRTFFPDPQTSTKEISELKGMLKQLQPGPLGRAARMVLSAARKAPPASVVSPNNSHGEPGPSRAESAEPRAEEPNRKTAVGRRKRRKVQEPRRSLSNSSSQPNRRTGRTRQRQHRPQTKSDDGGVQAAGQCPICAGFFSIETLPQHAATCGESPPPQPASPASLSSSESVLRRHHVALTPVPLVPKPQPNWTEIVNKKLKFPPTLLRAIQEGQLGLVQQLLESSSDASGAGPGGPLRNVEESEDRSWREALNLAIRLGHEVITDVLLANVKFDFRQIHEALLVAVDTNQPAVVRRLLARLEREKGRKVDTKSFSLAFFDSSIDGSRFAPGVTPLTLACQKDLYEIAQLLMDQGHTIARPHPVSCACLECSNARRYDLLKFSLSRINTYRGIASRAHLSLASEDAMLAAFQLSRELRRLARKEPEFKPQYIALESLCQDYGFELLGMCRNQSEVTAVLNDLGEDSETEPEAEGLGQAFEEGIPNLARLRLAVNYNQKQFVAHPICQQVLSSIWCGNLAGWRGSTTIWKLFVAFLIFLTMPFLCIGYWLAPKSQLGRLLKIPVLKFLLHSASYLWFLIFLLGESLVMETQLSTFKGRSQSVWETSLHMIWVTGFLWFECKEVWIEGLRSYLLDWWNFLDVVILSLYLASFALRLLLAGLAYMHCRDASDSTTCRYFTTAERSEWRTEDPQFLAEVLFAVTSMLSFTRLAYILPAHESLGTLQISIGKMIDDMIRFMFILMIILTAFLCGLNNIYVPYQESEKLGNFNETFQFLFWTMFGMEEHTVVDMPQFLVPEFVGRAMYGIFTIVMVIVLLNMLIAMITNSFQKIEDDADVEWKFARSKLYLSYFREGLTLPVPFNILPSPKAAFYLVRRIFRFLCCGSSCCKAKKSDYPPIGTFTNPGARAGSAGEGERVSYRLRVIKALVQRYIETARREFEETRRKDLGNRLTELTKTVSRLQSEVASVQKNLAAGGAPRPPDGASILSRYITRVRNSFQNLGPPTSDTPAELTMPGIVETEVSLGDGLDGTGEAGAPAPGEPGSSSSAHVLVHREQEAEGSGDLLLEGDLETKGES |
| 1674 | sp|P15306|TRBM\_MOUSE | MLGIFFLGVLAPASLGLSALAKLQPTGSQCVEHECFALFQGPATFLDASQACQRLQGHLMTVRSSVAADVISLLLSQSSMDLGPWIGLQLPQGCDDPVHLGPLRGFQWVTGDNHTSYSRWARPNDQTAPLCGPLCVTVSTATEAAPGEPAWEEKPCETETQGFLCEFYFTASCRPLTVNTRDPEAAHISSTYNTPFGVSGADFQTLPVGSSAAVEPLGLELVCRAPPGTSEGHWAWEATGAWNCSVENGGCEYLCNRSTNEPRCLCPRDMDLQADGRSCARPVVQSCNELCEHFCVSNAEVPGSYSCMCETGYQLAADGHRCEDVDDCKQGPNPCPQLCVNTKGGFECFCYDGYELVDGECVELLDPCFGSNCEFQCQPVSPTDYRCICAPGFAPKPDEPHKCEMFCNETSCPADCDPNSPTVCECPEGFILDEGSVCTDIDECSQGECFTSECRNFPGSYECICGPDTALAGQISKDCDPIPVREDTKEEEGSGEPPVSPTPGSPTGPPSARPVHSGVLIGISIASLSLVVALLALLCHLRKKQGAARAELEYKCASSAKEVVLQHVRTDRTLQKF |
| 1675 | sp|P40238|TPOR\_HUMAN | MPSWALFMVTSCLLLAPQNLAQVSSQDVSLLASDSEPLKCFSRTFEDLTCFWDEEEAAPSGTYQLLYAYPREKPRACPLSSQSMPHFGTRYVCQFPDQEEVRLFFPLHLWVKNVFLNQTRTQRVLFVDSVGLPAPPSIIKAMGGSQPGELQISWEEPAPEISDFLRYELRYGPRDPKNSTGPTVIQLIATETCCPALQRPHSASALDQSPCAQPTMPWQDGPKQTSPSREASALTAEGGSCLISGLQPGNSYWLQLRSEPDGISLGGSWGSWSLPVTVDLPGDAVALGLQCFTLDLKNVTCQWQQQDHASSQGFFYHSRARCCPRDRYPIWENCEEEEKTNPGLQTPQFSRCHFKSRNDSIIHILVEVTTAPGTVHSYLGSPFWIHQAVRLPTPNLHWREISSGHLELEWQHPSSWAAQETCYQLRYTGEGHQDWKVLEPPLGARGGTLELRPRSRYRLQLRARLNGPTYQGPWSSWSDPTRVETATETAWISLVTALHLVLGLSAVLGLLLLRWQFPAHYRRLRHALWPSLPDLHRVLGQYLRDTAALSPPKATVSDTCEEVEPSLLEILPKSSERTPLPLCSSQAQMDYRRLQPSCLGTMPLSVCPPMAESGSCCTTHIANHSYLPLSYWQQP |
| 1676 | sp|P09495|TPM4\_RAT | MAGLNSLEAVKRKIQALQQQADDAEDRAQGLQRELDGERERREKAEGDAAALNRRIQLVEEELDRAQERLATALQKLEEAEKAADESERGMKVIENRAMKDEEKMEIQEMQLKEAKHIAEEADRKYEEVARKLVILEGELERAEERAEVSELKSSDLEEELKNVTNNLKSLEAASEKYSEKEDKYEEEIKLLSDKLKEAETRAEFAERTVSKLEKTIDDLEEKLAQAKEENVGLHQTLDQTLNELNCI |
| 1677 | sp|Q27249|TPM3\_CAEEL | MSKVNKEGAQQTSLLDVLKKKMRQAREEAEAAKDEADEVKRQLEEERKKREDAEAEVAALNRRIVLVEEDLERTEDRLKTATSKLEQATKAADEADRARKSMETRSQQDEERANFLETQVDEAKVIAEDADRKYEEVARKLAMVEADLERAEERAEAGENKIVELEEELRVVGNNLKSLEVSEEKALQREDSYEEQIRTVSSRLKEAETRAEFAERSVQKLQKEVDRLEDELLLEKERVRNLTEEIEQTVQEIQGS |
| 1678 | sp|Q6E2N3|TRI33\_DANRE | MEVEASGTEDNGDGGAKEPEAVVSIDTETKEAADEAKSQETVPQTPTTSSDSSSSGGGGEATDGTPNAESADPPPPPPPPPPPPPSTPADSTAAAASPAVLTEMSPPPPASTSSSSSTPAAPINLLDTCAVCKQSLQNRDCEPKLLPCLHSFCLKCIPQPDRKITMPVQGPHGQDTRIVNVMRCTVCHQDYKQIDMVDNYFVKDTSEATNTSVENSTQVCTSCEDNASAIGFCVECGEWLCKTCIEAHQRVKFTKDHKIRKKEEVSPESVGTSGQRPVFCPVHKQEALKLFCETCDTLTCRDCQLLEHKEHRYQFLDEACQNQKGIIATFMTKLQEKRGLVEYSASEVQKRLKEVAETHKKVEHEIKIAVFTLINEINKKGKSLLQQLESVTKDRSMKLLSQQRDISVLAQQIIHVLNFTNWAITNGSSTALLYSKRLITYQLRLIMKARVDAVPPANGAVRFFCDPTFWAKNVVNLGNLVIEKVAPTAPPSNMMVNQQISPGHNHPGKHSGQINLAQLRLQHMQQAAIAQKHQQQHQHHQQQQHQHQHQQQQQQQQQQQQQQQQQQQQQQHQQQIQQQMRIASQMSQHPRQGAPQMIQQPPPRLISMQALHRGGVNGSSHMFPPHHLRMVSAQNRMPSAQPRLNGQPYPMMQPQLQRQHSNPGHAGPFPVASLHNISAANPTSPTSASMANAHMHRGPSSPVITPIELIPSVTNPENLPCLPDIPPIQLEDAGSSTLDNILSRYISANAYPTVGPTNPSPGPSTHSPGSSGLSNSHTPARPSSTSSTGSRGSSGTTVDQVKVKQEPGVEEECSYSGANVKTERTKDGRRSACMMSSPEGSLTPPLPILGSVSTGSVQDILRTLGENVKSEPQSDNLSSCTNPNSRATLTNGTSGSNGGQRGGATNANSQTTAGKEDDPNEDWCAVCQNGGELLCCDHCPKVFHITCHIPTLKSSPSGDWMCTFCRNLANPEIEYNCDDDPPRNKEKNEMAMSPEEQRRCERLLLHVFCHELSTEFQEPVPTSVPNYYKIIKHPMDLTLVKRKLQRKHPLHYKSPKEFVSDVRLVFSNCAKYNEMSRIIQVYDEEKQSNVQADSEVAEAGKAVSLYFEERLLEIFPEQTFPVVMEKETQIEAEKEDSDDSDDDIIQPKRKRLKVDTEMLLHIK |
| 1679 | sp|Q12931|TRAP1\_HUMAN | MARELRALLLWGRRLRPLLRAPALAAVPGGKPILCPRRTTAQLGPRRNPAWSLQAGRLFSTQTAEDKEEPLHSIISSTESVQGSTSKHEFQAETKKLLDIVARSLYSEKEVFIRELISNASDALEKLRHKLVSDGQALPEMEIHLQTNAEKGTITIQDTGIGMTQEELVSNLGTIARSGSKAFLDALQNQAEASSKIIGQFGVGFYSAFMVADRVEVYSRSAAPGSLGYQWLSDGSGVFEIAEASGVRTGTKIIIHLKSDCKEFSSEARVRDVVTKYSNFVSFPLYLNGRRMNTLQAIWMMDPKDVREWQHEEFYRYVAQAHDKPRYTLHYKTDAPLNIRSIFYVPDMKPSMFDVSRELGSSVALYSRKVLIQTKATDILPKWLRFIRGVVDSEDIPLNLSRELLQESALIRKLRDVLQQRLIKFFIDQSKKDAEKYAKFFEDYGLFMREGIVTATEQEVKEDIAKLLRYESSALPSGQLTSLSEYASRMRAGTRNIYYLCAPNRHLAEHSPYYEAMKKKDTEVLFCFEQFDELTLLHLREFDKKKLISVETDIVVDHYKEEKFEDRSPAAECLSEKETEELMAWMRNVLGSRVTNVKVTLRLDTHPAMVTVLEMGAARHFLRMQQLAKTQEERAQLLQPTLEINPRHALIKKLNQLRASEPGLAQLLVDQIYENAMIAAGLVDDPRAMVGRLNELLVKALERH |
| 1680 | sp|Q08351|TPOR\_MOUSE | MPSWALFMVTSCLLLALPNQAQVTSQDVFLLALGTEPLNCFSQTFEDLTCFWDEEEAAPSGTYQLLYAYRGEKPRACPLYSQSVPTFGTRYVCQFPAQDEVRLFFPLHLWVKNVSLNQTLIQRVLFVDSVGLPAPPRVIKARGGSQPGELQIHWEAPAPEISDFLRHELRYGPTDSSNATAPSVIQLLSTETCCPTLWMPNPVPVLDQPPCVHPTASQPHGPAPFLTVKGGSCLVSGLQAGKSYWLQLRSQPDGVSLRGSWGPWSFPVTVDLPGDAVTIGLQCFTLDLKMVTCQWQQQDRTSSQGFFRHSRTRCCPTDRDPTWEKCEEEEPRPGSQPALVSRCHFKSRNDSVIHILVEVTTAQGAVHSYLGSPFWIHQAVLLPTPSLHWREVSSGRLELEWQHQSSWAAQETCYQLRYTGEGREDWKVLEPSLGARGGTLELRPRARYSLQLRARLNGPTYQGPWSAWSPPARVSTGSETAWITLVTALLLVLSLSALLGLLLLKWQFPAHYRRLRHALWPSLPDLHRVLGQYLRDTAALSPSKATVTDSCEEVEPSLLEILPKSSESTPLPLCPSQPQMDYRGLQPCLRTMPLSVCPPMAETGSCCTTHIANHSYLPLSYWQQP |
| 1681 | sp|O14717|TRDMT\_HUMAN | MEPLRVLELYSGVGGMHHALRESCIPAQVVAAIDVNTVANEVYKYNFPHTQLLAKTIEGITLEEFDRLSFDMILMSPPCQPFTRIGRQGDMTDSRTNSFLHILDILPRLQKLPKYILLENVKGFEVSSTRDLLIQTIENCGFQYQEFLLSPTSLGIPNSRLRYFLIAKLQSEPLPFQAPGQVLMEFPKIESVHPQKYAMDVENKIQEKNVEPNISFDGSIQCSGKDAILFKLETAEEIHRKNQQDSDLSVKMLKDFLEDDTDVNQYLLPPKSLLRYALLLDIVQPTCRRSVCFTKGYGSYIEGTGSVLQTAEDVQVENIYKSLTNLSQEEQITKLLILKLRYFTPKEIANLLGFPPEFGFPEKITVKQRYRLLGNSLNVHVVAKLIKILYE |
| 1682 | sp|Q96NM4|TOX2\_HUMAN | MQQTRTEAVAGAFSRCLGFCGMRLGLLLLARHWCIAGVFPQKFDGDSAYVGMSDGNPELLSTSQTYNGQSENNEDYEIPPITPPNLPEPSLLHLGDHEASYHSLCHGLTPNGLLPAYSYQAMDLPAIMVSNMLAQDSHLLSGQLPTIQEMVHSEVAAYDSGRPGPLLGRPAMLASHMSALSQSQLISQMGIRSSIAHSSPSPPGSKSATPSPSSSTQEEESEVHFKISGEKRPSADPGKKAKNPKKKKKKDPNEPQKPVSAYALFFRDTQAAIKGQNPSATFGDVSKIVASMWDSLGEEQKQSSPDQGETKSTQANPPAKMLPPKQPMYAMPGLASFLTPSDLQAFRSGASPASLARTLGSKSLLPGLSASPPPPPSFPLSPTLHQQLSLPPHAQGALLSPPVSMSPAPQPPVLPTPMALQVQLAMSPSPPGPQDFPHISEFPSSSGSCSPGPSNPTSSGDWDSSYPSGECGISTCSLLPRDKSLYLT |
| 1683 | sp|Q7KIN0|TOLL7\_DROME | MAAILLLLLGFSWSLAVESALAPKESESSASAMLGAGTGAAATVSLSGDYSSLLSNVPAASPVPANPSQPSGPANQCSWSYNGTSSVHCALRLIERQPGLDLQGADGSSQLTIQCSELYLFESTLPVAVFARLQTLEALRLDSCKLLQLPNNAFEGLATLKSLRLSTHNSEWGPTRTLELFPDSLGGLKQLTDLDLGDNNLRQLPSGFLCPVGNLQVLNLTRNRIRTAEQMGFADMNCGAGSGSAGSELQVLDASHNELRSISESWGISRLRRLQHLNLAYNNLSELSGEALAGLASLRIVNLSNNHLETLPEGLFAGSKELREIHLQQNELYELPKGLFHRLEQLLVVDLSGNQLTSNHVDNTTFAGLIRLIVLNLAHNALTRIDYRTFKELYFLQILNLRNNSIGHIEDNAFLPLYNLHTLNLAENRLHTLDDKLFNGLYVLSKLTLNNNLISVVEPAVFKNCSDLKELDLSSNQLNEVPRALQDLAMLRTLDLGENQIRTFDNQSFKNLHQLTGLRLIDNQIGNITVGMFQDLPRLSVLNLAKNRIQSIERGSFDKNFELEAIRLDRNFLADINGVFATLVSLLWLNLSENHLVWFDYAFIPSNLKWLDIHGNYIEALGNYYKLQEEIRVKTLDASHNRITEIGPMSIPNTIELLFINNNLIGNVQPNAFVDKANLARVDLYANQLSKLQLQQLRVAPVVAPKPLPEFYLGGNPFECDCTMDWLQRINNLTTRQHPRVMDMANIECVMPHARGAAVRPLSGLRPQDFLCRYESHCFALCHCCDFDACDCEMTCPSNCTCYHDQIWSTNVVDCGGQQTTELPRRVPMDSSVVYLDGNNFPVLKNHAFIGRKNLRALYVNGSQVAAIQNRTFASLASLQLLHLADNKLRTLHGYEFEQLSALRELYLQNNQLTTIENATLAPLAALELIRIDGNRLVTLPIWQMHATHFGTRLKSISLGRNQWSCRCQFLQALTSYVADNALIVQDAQDIYCMAASSGTGSAALEDSSSNSGSLEKRELDFNATGAACTDYYSGGSMLQHGIPESYIPLLAAALALLFLLVVIAMVFAFRESLRIWLFAHYGVRVFGPRCEESEKLYDAVLLHSAKDSEFVCQHLAAQLETGRPPLRVCLQHRDLAHDATHYQLLEATRVSRRVVILLTRNFLQTEWARCELRRSVHDALRGRPQKLVIIEEPEVAFEAESDIELLPYLKTSAVHRIRRSDRHFWEKLRYALPVDYPTFRGNNYTLELDHHNHERVKQPASPGLLYRQAPPPAYCGPADAVGIGAVPQVVPVNASVPAEQNYSTATTATPSPRPQRRGEQPGSGSGGNHHLHAQYYQHHGMRPPSEHIYSSIDSDYSTLDNEQHMLMMPGAPGGLAMEAAQRAQTWRPKREQLHLQQAQAGTLGSKASQAAHQQQQQQQQQQQQQPNPTAVSGQQQGPHVQAYLV |
| 1684 | sp|O95985|TOP3B\_HUMAN | MKTVLMVAEKPSLAQSIAKILSRGSLSSHKGLNGACSVHEYTGTFAGQPVRFKMTSVCGHVMTLDFLGKYNKWDKVDPAELFSQAPTEKKEANPKLNMVKFLQVEGRGCDYIVLWLDCDKEGENICFEVLDAVLPVMNKAHGGEKTVFRARFSSITDTDICNAMACLGEPDHNEALSVDARQELDLRIGCAFTRFQTKYFQGKYGDLDSSLISFGPCQTPTLGFCVERHDKIQSFKPETYWVLQAKVNTDKDRSLLLDWDRVRVFDREIAQMFLNMTKLEKEAQVEATSRKEKAKQRPLALNTVEMLRVASSSLGMGPQHAMQTAERLYTQGYISYPRTETTHYPENFDLKGSLRQQANHPYWADTVKRLLAEGINRPRKGHDAGDHPPITPMKSATEAELGGDAWRLYEYITRHFIATVSHDCKYLQSTISFRIGPELFTCSGKTVLSPGFTEVMPWQSVPLEESLPTCQRGDAFPVGEVKMLEKQTNPPDYLTEAELITLMEKHGIGTDASIPVHINNICQRNYVTVESGRRLKPTNLGIVLVHGYYKIDAELVLPTIRSAVEKQLNLIAQGKADYRQVLGHTLDVFKRKFHYFVDSIAGMDELMEVSFSPLAATGKPLSRCGKCHRFMKYIQAKPSRLHCSHCDETYTLPQNGTIKLYKELRCPLDDFELVLWSSGSRGKSYPLCPYCYNHPPFRDMKKGMGCNECTHPSCQHSLSMLGIGQCVECESGVLVLDPTSGPKWKVACNKCNVVAHCFENAHRVRVSADTCSVCEAALLDVDFNKAKSPLPGDETQHMGCVFCDPVFQELVELKHAASCHPMHRGGPGRRQGRGRGRARRPPGKPNPRRPKDKMSALAAYFV |
| 1685 | sp|P08071|TRFL\_MOUSE | MRLLIPSLIFLEALGLCLAKATTVQWCAVSNSEEEKCLRWQNEMRKVGGPPLSCVKKSSTRQCIQAIVTNRADAMTLDGGTMFDAGKPPYKLRPVAAEVYGTKEQPRTHYYAVAVVKNSSNFHLNQLQGLRSCHTGIGRSAGWKIPIGTLRPYLNWNGPPASLEEAVSKFFSKSCVPGAQKDRFPNLCSSCAGTGANKCASSPEEPYSGYAGALRCLRDNAGDVAFTRGSTVFEELPNKAERDQYKLLCPDNTWKPVTEYKECHLAQVPSHAVVSRSTNDKEEAIWELLRQSQEKFGKKQASGFQLFASPSGQKDLLFKESAIGFVRVPQKVDVGLYLTFSYTTSIQNLNKKQQDVIASKARVTWCAVGSEEKRKCDQWNRASRGRVTCISFPTTEDCIVAIMKGDADAMSLDGGYIYTAGKCGLVPVLAENQKSSKSNGLDCVNRPVEGYLAVAAVRREDAGFTWSSLRGKKSCHTAVDRTAGWNIPMGLLANQTRSCKFNEFFSQSCAPGADPKSNLCALCIGDEKGENKCAPNSKERYQGYTGALRCLAEKAGNVAFLKDSTVLQNTDGKNTEEWARNLKLKDFELLCLDDTRKPVTEAKNCHLAIAPNHAVVSRTDKVEVLQQVLLDQQVQFGRNGQRCPGEFCLFQSKTKNLLFNDNTECLAKIPGKTTSEKYLGKEYVIATERLKQCSSSPLLEACAFLTQ |
| 1686 | sp|Q75Q40|TOM40\_RAT | MGNVLAASSPPAGPPPPPTPSLVGLPPPPPSPPGFTLPPLGGGLGTGSNAGRGSERTPGAAASGAAASSNDGNCGCLPNPGTFEECHRKCKELFPVQMEGVKLTVNKGLSNRFQVTHTVALGTIGESNYHFGVTYVGTKQLSPTEAFPVLVGDMDNSGSLNAQVIHQLSPGLRSKMAIQTQQSKFVNWQVDGEYRGSDFTAAVTLGNPDVLVGSGILVAHYLQSITPCLALGGELVYHRRPGEKGTVMSLAGKYTLNNWLATVTLGQAGMHATYYHKASDQLQVGVEFEASTRMQDTSASFGYQLDLPKANFLFKGSVNSNWIVGATLEKKLPPLPLTLSLCAFLNHRKNKFLCGFGLTIG |
| 1687 | sp|Q6P9F5|TRI40\_HUMAN | MIPLQKDNQEEGVCPICQESLKEAVSTNCGHLFCRVCLTQHVEKASASGVFCCPLCRKPCSEEVLGTGYICPNHQKRVCRFCEESRLLLCVECLVSPEHMSHHELTIENALSHYKERLNRRSRKLRKDIAELQRLKAQQEKKLQALQFQVDHGNHRLEAGPESQHQTREQLGALPQQWLGQLEHMPAEAARILDISRAVTQLRSLVIDLERTAKELDTNTLKNAGDLLNRSAPQKLEVIYPQLEKGVSELLLQPPQKL |
| 1688 | sp|P02929|TONB\_ECOLI | MTLDLPRRFPWPTLLSVCIHGAVVAGLLYTSVHQVIELPAPAQPISVTMVTPADLEPPQAVQPPPEPVVEPEPEPEPIPEPPKEAPVVIEKPKPKPKPKPKPVKKVQEQPKRDVKPVESRPASPFENTAPARLTSSTATAATSKPVTSVASGPRALSRNQPQYPARAQALRIEGQVKVKFDVTPDGRVDNVQILSAKPANMFEREVKNAMRRWRYEPGKPGSGIVVNILFKINGTTEIQ |
| 1689 | sp|Q8VWK4|TRB1\_ARATH | MGAPKQKWTQEEESALKSGVIKHGPGKWRTILKDPEFSGVLYLRSNVDLKDKWRNMSVMANGWGSREKSRLAVKRTFSLPKQEENSLALTNSLQSDEENVDATSGLQVSSNPPPRRPNVRLDSLIMEAIATLKEPGGCNKTTIGAYIEDQYHAPPDFKRLLSTKLKYLTSCGKLVKVKRKYRIPNSTPLSSHRRKGLGVFGGKQRTSSLPSPKTDIDEVNFQTRSQIDTEIARMKSMNVHEAAAVAAQAVAEAEAAMAEAEEAAKEAEAAEAEAEAAQAFAEEASKTLKGRNICKMMIRA |
| 1690 | sp|P17643|TYRP1\_HUMAN | MSAPKLLSLGCIFFPLLLFQQARAQFPRQCATVEALRSGMCCPDLSPVSGPGTDRCGSSSGRGRCEAVTADSRPHSPQYPHDGRDDREVWPLRFFNRTCHCNGNFSGHNCGTCRPGWRGAACDQRVLIVRRNLLDLSKEEKNHFVRALDMAKRTTHPLFVIATRRSEEILGPDGNTPQFENISIYNYFVWTHYYSVKKTFLGVGQESFGEVDFSHEGPAFLTWHRYHLLRLEKDMQEMLQEPSFSLPYWNFATGKNVCDICTDDLMGSRSNFDSTLISPNSVFSQWRVVCDSLEDYDTLGTLCNSTEDGPIRRNPAGNVARPMVQRLPEPQDVAQCLEVGLFDTPPFYSNSTNSFRNTVEGYSDPTGKYDPAVRSLHNLAHLFLNGTGGQTHLSPNDPIFVLLHTFTDAVFDEWLRRYNADISTFPLENAPIGHNRQYNMVPFWPPVTNTEMFVTAPDNLGYTYEIQWPSREFSVPEIIAIAVVGALLLVALIFGTASYLIRARRSMDEANQPLLTDQYQCYAEEYEKLQNPNQSVV |
| 1691 | sp|C7AJA4|TUT7\_TRYBB | MNVAKREFIRGMMAHYRASLPPPEHSVVIHELQKRVLDIGMLAVNKAHVELFGSHVSGFCTPHSDADISLTYRNFSPWLQGMERVDEQNNKRMTRFGKEASAMGMEDVRYIRARIPVVQFTDGVTGIHCDVSIGNIGGVENSKILCAIRQVFPDFYGAYIHLVKAWGKAREVIAPERSTFNSFTVTTMALMVLQELGLLPVFSKPTGEFGELTVADAEMLLQEFKLPPIYDSLHDDDEKLGEAVFFCLQRFAEYYAKYDFSAGTVSLIHPRRHRTVYERVVRRHLELLGSRKRLEWEKHIAEHKEDGPLDENDFSASMQNETTQRPSNSPYVVEDFVNYVNCGRRVQASRVRHIQQEFNRLREMLIDKESELKFDEVFRESDTVPRFQGFEGVGTRDHRVKTFRPQ |
| 1692 | sp|Q86XT4|TRI50\_HUMAN | MAWQVSLLELEDWLQCPICLEVFKEPLMLQCGHSYCKGCLVSLSCHLDAELRCPVCRQAVDGSSSLPNVSLARVIEALRLPGDPEPKVCVHHRNPLSLFCEKDQELICGLCGLLGSHQHHPVTPVSTVYSRMKEELAALISELKQEQKKVDELIAKLVNNRTRIVNESDVFSWVIRREFQELHHLVDEEKARCLEGIGGHTRGLVASLDMQLEQAQGTRERLAQAECVLEQFGNEDHHKFIRKFHSMASRAEMPQARPLEGAFSPISFKPGLHQADIKLTVWKRLFRKVLPAPEPLKLDPATAHPLLELSKGNTVVQCGLLAQRRASQPERFDYSTCVLASRGFSCGRHYWEVVVGSKSDWRLGVIKGTASRKGKLNRSPEHGVWLIGLKEGRVYEAFACPRVPLPVAGHPHRIGLYLHYEQGELTFFDADRPDDLRPLYTFQADFQGKLYPILDTCWHERGSNSLPMVLPPPSGPGPLSPEQPTKL |
| 1693 | sp|Q9BRA2|TXD17\_HUMAN | MARYEEVSVSGFEEFHRAVEQHNGKTIFAYFTGSKDAGGKSWCPDCVQAEPVVREGLKHISEGCVFIYCQVGEKPYWKDPNNDFRKNLKVTAVPTLLKYGTPQKLVESECLQANLVEMLFSED |
| 1694 | sp|P02767|TTHY\_RAT | MASLRLFLLCLAGLIFASEAGPGGAGESKCPLMVKVLDAVRGSPAVDVAVKVFKKTADGSWEPFASGKTAESGELHGLTTDEKFTEGVYRVELDTKSYWKALGISPFHEYAEVVFTANDSGHRHYTIAALLSPYSYSTTAVVSNPQN |
| 1695 | sp|Q0HA38|TT21B\_MOUSE | MDSQGLKTLINYYCQERYYHHVLLVASEGMKKYSSDPVFRFYHAYGTLMEGKAQEALREFEAIKNKQDVSLCSLMALMYVHKMSPNPDREAILELDTKMKEQRKEAGRKALYHAGLFLWHIGRHDKAREYIDRMSKMPHDSNEGPILKAWLDITRGKEPYAKKALRYFEEGLQDGNDIFALLGKVLCLEIRQNYSGALETVSQIIVNFPSFLPAFEKKMKLQLALQDWDQTVETAQRLLLQDNHNVEALRMLALYYLCREGDVEKAATKLENLGNALDVMEPQNAQLFYKITLAFSRTCGRNQLILQKVQSFLEKAFSLTPQQAEIATELGYQMILQGKVKEAWKWYRTAMTLNESNISAVTGLIRCQLIEGQLQDADQQLEFFSEFQQSMGKSAELMYLHAVLATKKNNRQDEVINLLNDVVNTHFSHLEDLPLGIQYFEKLNPDFLLEVVTEYLNLCPIQPAGPGQPLSPVLRRCSSVLETIIRSVPGLPQAVFLMAKVKYLSGDTEAAYNNLQHCLEHSPSYAEAHLLMAQVYLSQDKVKLCSQSLELCLSYNFNVREYPLYHLIKAQSQKKMGEVAEAIKTLHMAMNLPGMRRSRASSKSKHRTEVDASHRLSIFLELVEVHRLNGEQHEAAKVLQDAIHEFSGTCEELRVTIANADLALAQGDTDRALSMLRNVTTEQPYFIEAKEKMADIYLKHRKEKMLYITCYREIAERMPSPRSFLLLGDAYMNIQEPEEAIVAYEQALNQNPKDGTLARKIGKALVKTHNYSKAITYYEAALKSGQQNCLCYDLAELLLRLKLYEKAEKVLQHSLAHEPVSELSALMVDGRSQVLLAKVYSKMERPSDAIAALQQARELQARILKRVQMEQPDAVPSQKHFAAEICAEIAKHSAAQRDYEKAITFYREALVHCETDSKIMLELAQLYLAQEDLDASLRHCALLLQRDQDNEPATMLMADLMFRKQDYEQAVYHLQQLLDRKPDNFMTLSRLIDLLRRCGKLEDVPRFFLMAEKHNSRTKLEPGFQYCKGLHFWYTGEPNDALRHFNKARKDSDWGQNALYNMIEICLNPDNETIGGEVFENLNGDLGTSPEKQESVQLAVRTAEKLLKELKPQTVQGRLQLRIMENCCLMATKQKSSVEQALNTFTEIAASEKDHIPALLGMATAYMILKQTPKARNQLKRIAKMPWNPIEAEDLEKSWLLLADIYIQSAKYDMAEELLKRCLCHNRSCCKAYEYMGYIMEKEQAYTDAAFNYEMAWKHSNQTNPAVGYKLAFNYLKAKRYVDAIDVCHQVLEAHPTYPKIRKDILDKARASLRP |
| 1696 | sp|Q15661|TRYB1\_HUMAN | MLNLLLLALPVLASRAYAAPAPGQALQRVGIVGGQEAPRSKWPWQVSLRVHGPYWMHFCGGSLIHPQWVLTAAHCVGPDVKDLAALRVQLREQHLYYQDQLLPVSRIIVHPQFYTAQIGADIALLELEEPVNVSSHVHTVTLPPASETFPPGMPCWVTGWGDVDNDERLPPPFPLKQVKVPIMENHICDAKYHLGAYTGDDVRIVRDDMLCAGNTRRDSCQGDSGGPLVCKVNGTWLQAGVVSWGEGCAQPNRPGIYTRVTYYLDWIHHYVPKKP |
| 1697 | sp|Q14166|TTL12\_HUMAN | MEAERGPERRPAERSSPGQTPEEGAQALAEFAALHGPALRASGVPERYWGRLLHKLEHEVFDAGEVFGIMQVEEVEEEEDEAAREVRKQQPNPGNELCYKVIVTRESGLQAAHPNSIFLIDHAWTCRVEHARQQLQQVPGLLHRMANLMGIEFHGELPSTEAVALVLEEMWKFNQTYQLAHGTAEEKMPVWYIMDEFGSRIQHADVPSFATAPFFYMPQQVAYTLLWPLRDLDTGEEVTRDFAYGETDPLIRKCMLLPWAPTDMLDLSSCTPEPPAEHYQAILEENKEKLPLDINPVVHPHGHIFKVYTDVQQVASSLTHPRFTLTQSEADADILFNFSHFKDYRKLSQERPGVLLNQFPCENLLTVKDCLASIARRAGGPEGPPWLPRTFNLRTELPQFVSYFQQRERWGEDNHWICKPWNLARSLDTHVTKSLHSIIRHRESTPKVVSKYIESPVLFLREDVGKVKFDIRYIVLLRSVRPLRLFVYDVFWLRFSNRAFALNDLDDYEKHFTVMNYDPDVVLKQVHCEEFIPEFEKQYPEFPWTDVQAEIFRAFTELFQVACAKPPPLGLCDYPSSRAMYAVDLMLKWDNGPDGRRVMQPQILEVNFNPDCERACRYHPTFFNDVFSTLFLDQPGGCHVTCLV |
| 1698 | sp|Q8N427|TXND3\_HUMAN | MASKKREVQLQTVINNQSLWDEMLQNKGLTVIDVYQAWCGPCRAMQPLFRKLKNELNEDEILHFAVAEADNIVTLQPFRDKCEPVFLFSVNGKIIEKIQGANAPLVNKKVINLIDEERKIAAGEMARPQYPEIPLVDSDSEVSEESPCESVQELYSIAIIKPDAVISKKVLEIKRKITKAGFIIEAEHKTVLTEEQVVNFYSRIADQCDFEEFVSFMTSGLSYILVVSQGSKHNPPSEETEPQTDTEPNERSEDQPEVEAQVTPGMMKNKQDSLQEYLERQHLAQLCDIEEDAANVAKFMDAFFPDFKKMKSMKLEKTLALLRPNLFHERKDDVLRIIKDEDFKILEQRQVVLSEKEAQALCKEYENEDYFNKLIENMTSGPSLALVLLRDNGLQYWKQLLGPRTVEEAIEYFPESLCAQFAMDSLPVNQLYGSDSLETAEREIQHFFPLQSTLGLIKPHATSEQREQILKIVKEAGFDLTQVKKMFLTPEQIEKIYPKVTGKDFYKDLLEMLSVGPSMVMILTKWNAVAEWRRLMGPTDPEEAKLLSPDSIRAQFGISKLKNIVHGASNAYEAKEVVNRLFEDPEEN |
| 1699 | sp|Q96QT4|TRPM7\_HUMAN | MSQKSWIESTLTKRECVYIIPSSKDPHRCLPGCQICQQLVRCFCGRLVKQHACFTASLAMKYSDVKLGDHFNQAIEEWSVEKHTEQSPTDAYGVINFQGGSHSYRAKYVRLSYDTKPEVILQLLLKEWQMELPKLVISVHGGMQKFELHPRIKQLLGKGLIKAAVTTGAWILTGGVNTGVAKHVGDALKEHASRSSRKICTIGIAPWGVIENRNDLVGRDVVAPYQTLLNPLSKLNVLNNLHSHFILVDDGTVGKYGAEVRLRRELEKTINQQRIHARIGQGVPVVALIFEGGPNVILTVLEYLQESPPVPVVVCEGTGRAADLLAYIHKQTEEGGNLPDAAEPDIISTIKKTFNFGQNEALHLFQTLMECMKRKELITVFHIGSDEHQDIDVAILTALLKGTNASAFDQLILTLAWDRVDIAKNHVFVYGQQWLVGSLEQAMLDALVMDRVAFVKLLIENGVSMHKFLTIPRLEELYNTKQGPTNPMLFHLVRDVKQGNLPPGYKITLIDIGLVIEYLMGGTYRCTYTRKRFRLIYNSLGGNNRRSGRNTSSSTPQLRKSHESFGNRADKKEKMRHNHFIKTAQPYRPKIDTVMEEGKKKRTKDEIVDIDDPETKRFPYPLNELLIWACLMKRQVMARFLWQHGEESMAKALVACKIYRSMAYEAKQSDLVDDTSEELKQYSNDFGQLAVELLEQSFRQDETMAMKLLTYELKNWSNSTCLKLAVSSRLRPFVAHTCTQMLLSDMWMGRLNMRKNSWYKVILSILVPPAILLLEYKTKAEMSHIPQSQDAHQMTMDDSENNFQNITEEIPMEVFKEVRILDSNEGKNEMEIQMKSKKLPITRKFYAFYHAPIVKFWFNTLAYLGFLMLYTFVVLVQMEQLPSVQEWIVIAYIFTYAIEKVREIFMSEAGKVNQKIKVWFSDYFNISDTIAIISFFIGFGLRFGAKWNFANAYDNHVFVAGRLIYCLNIIFWYVRLLDFLAVNQQAGPYVMMIGKMVANMFYIVVIMALVLLSFGVPRKAILYPHEAPSWTLAKDIVFHPYWMIFGEVYAYEIDVCANDSVIPQICGPGTWLTPFLQAVYLFVQYIIMVNLLIAFFNNVYLQVKAISNIVWKYQRYHFIMAYHEKPVLPPPLIILSHIVSLFCCICKRRKKDKTSDGPKLFLTEEDQKKLHDFEEQCVEMYFNEKDDKFHSGSEERIRVTFERVEQMCIQIKEVGDRVNYIKRSLQSLDSQIGHLQDLSALTVDTLKTLTAQKASEASKVHNEITRELSISKHLAQNLIDDGPVRPSVWKKHGVVNTLSSSLPQGDLESNNPFHCNILMKDDKDPQCNIFGQDLPAVPQRKEFNFPEAGSSSGALFPSAVSPPELRQRLHGVELLKIFNKNQKLGSSSTSIPHLSSPPTKFFVSTPSQPSCKSHLETGTKDQETVCSKATEGDNTEFGAFVGHRDSMDLQRFKETSNKIKILSNNNTSENTLKRVSSLAGFTDCHRTSIPVHSKQAEKISRRPSTEDTHEVDSKAALIPDWLQDRPSNREMPSEEGTLNGLTSPFKPAMDTNYYYSAVERNNLMRLSQSIPFTPVPPRGEPVTVYRLEESSPNILNNSMSSWSQLGLCAKIEFLSKEEMGGGLRRAVKVQCTWSEHDILKSGHLYIIKSFLPEVVNTWSSIYKEDTVLHLCLREIQQQRAAQKLTFAFNQMKPKSIPYSPRFLEVFLLYCHSAGQWFAVEECMTGEFRKYNNNNGDEIIPTNTLEEIMLAFSHWTYEYTRGELLVLDLQGVGENLTDPSVIKAEEKRSCDMVFGPANLGEDAIKNFRAKHHCNSCCRKLKLPDLKRNDYTPDKIIFPQDEPSDLNLQPGNSTKESESTNSVRLML |
| 1700 | sp|Q8N3L3|TXLNB\_HUMAN | MEANHSEQLSAERQSTPPGDSSSLPSHNGLEKEDGQDSPTPVQPPEKEASVHPDISEELNRQLEDIINTYGSAASTAGKEGSARASEQPENAESPDNEDGDCEETTEEAGREPVASGEPPTVKEPVSNKEQKLEKKILKGLGKEANLLMQNLNKLQTPEEKFDFLFKKYAELLDEHRTEQKKLKLLQKKQVQIQKEKDQLQGEHSRAILARSKLESLCRELQRHNKTLKEEALQRAREEEEKRKEITSHFQSTLTDIQGQIEQQSERNMKLCQENTELAEKLKSIIDQYELREEHLDKIFKHRELQQKLVDAKLEQAQEMMKEAEERHKREKEYLLNQAAEWKLQAKVLKEQETVLQAQLTLYSGRFEEFQSTLTKSNEVFATFKQEMDKTTKKMKKLEKDTATWKARFENCNKALLDMIEEKALRAKEYECFVMKIGRLENLCRALQEERNELHKKIRDAEISEKDDQSQHNSDEEPESNVSVDQEIDAEEVNSVQTAVKNLATAFMIIHHPESTPHQSKETQPEIGSSQESADAALKEPEQPPLIPSRDSESPLPPLTPQAEAEGGSDAEPPSKASNSPAGLGAETQCEGLPVGAQADQASWKPEAEASGQAPQAPTEASLQKMEADVPAPACAAEEHVAAMVPACEPSRQPPRAAAEELPVGASAGPQPRNVADTNLEGVD |
| 1701 | sp|P29597|TYK2\_HUMAN | MPLRHWGMARGSKPVGDGAQPMAAMGGLKVLLHWAGPGGGEPWVTFSESSLTAEEVCIHIAHKVGITPPCFNLFALFDAQAQVWLPPNHILEIPRDASLMLYFRIRFYFRNWHGMNPREPAVYRCGPPGTEASSDQTAQGMQLLDPASFEYLFEQGKHEFVNDVASLWELSTEEEIHHFKNESLGMAFLHLCHLALRHGIPLEEVAKKTSFKDCIPRSFRRHIRQHSALTRLRLRNVFRRFLRDFQPGRLSQQMVMVKYLATLERLAPRFGTERVPVCHLRLLAQAEGEPCYIRDSGVAPTDPGPESAAGPPTHEVLVTGTGGIQWWPVEEEVNKEEGSSGSSGRNPQASLFGKKAKAHKAVGQPADRPREPLWAYFCDFRDITHVVLKEHCVSIHRQDNKCLELSLPSRAAALSFVSLVDGYFRLTADSSHYLCHEVAPPRLVMSIRDGIHGPLLEPFVQAKLRPEDGLYLIHWSTSHPYRLILTVAQRSQAPDGMQSLRLRKFPIEQQDGAFVLEGWGRSFPSVRELGAALQGCLLRAGDDCFSLRRCCLPQPGETSNLIIMRGARASPRTLNLSQLSFHRVDQKEITQLSHLGQGTRTNVYEGRLRVEGSGDPEEGKMDDEDPLVPGRDRGQELRVVLKVLDPSHHDIALAFYETASLMSQVSHTHLAFVHGVCVRGPENIMVTEYVEHGPLDVWLRRERGHVPMAWKMVVAQQLASALSYLENKNLVHGNVCGRNILLARLGLAEGTSPFIKLSDPGVGLGALSREERVERIPWLAPECLPGGANSLSTAMDKWGFGATLLEICFDGEAPLQSRSPSEKEHFYQRQHRLPEPSCPQLATLTSQCLTYEPTQRPSFRTILRDLTRLQPHNLADVLTVNPDSPASDPTVFHKRYLKKIRDLGEGHFGKVSLYCYDPTNDGTGEMVAVKALKADCGPQHRSGWKQEIDILRTLYHEHIIKYKGCCEDQGEKSLQLVMEYVPLGSLRDYLPRHSIGLAQLLLFAQQICEGMAYLHAQHYIHRDLAARNVLLDNDRLVKIGDFGLAKAVPEGHEYYRVREDGDSPVFWYAPECLKEYKFYYASDVWSFGVTLYELLTHCDSSQSPPTKFLELIGIAQGQMTVLRLTELLERGERLPRPDKCPCEVYHLMKNCWETEASFRPTFENLIPILKTVHEKYQGQAPSVFSVC |
| 1702 | sp|G5EE86|TTX3\_CAEEL | MYFQSLSADPLDSVNTTTDFNQLAQLLLMLTNSSSKETIATHVVTNSVPSAFQFDWSSHFKEEYDLVEKLNSPQYTNLTSISPSSSTDSNNLILRQIQIPKIEPALLNQCCLCTFAIVDKEISVVDGKYYHNNCLRCQMCDIPFEYSDKCYVRDGVFLCRADHAKRYQKCCRKCEIPLNREDMVMKAKEMIFHHACFVCFICGIKLNPGDYYTMSPQGHLYCHAHYNAVRSTVLCEEAAVATVPAVVAPPPPPPTTTTAPPPAAPEQPPREASTEAEASTDEDGNGSGSQRSKRMRTSFKHHQLRAMKTYFALNHNPDAKDLKQLAAKTNLTKRVLQVWFQNARAKYRRELHDGGRSSSPLCVSAPLASMDMNPPLSSSSSGHSTDGYQLNTPPLSSEIYSPNSNYTHL |
| 1703 | sp|P63147|UBE2B\_MOUSE | MSTPARRRLMRDFKRLQEDPPVGVSGAPSENNIMQWNAVIFGPEGTPFEDGTFKLVIEFSEEYPNKPPTVRFLSKMFHPNVYADGSICLDILQNRWSPTYDVSSILTSIQSLLDEPNPNSPANSQAAQLYQENKREYEKRVSAIVEQSWNDS |
| 1704 | sp|P29340|UBCX\_YEAST | MPNFWILENRRSYTSDTCMSRIVKEYKVILKTLASDDPIANPYRGIIESLNPIDETDLSKWEAIISGPSDTPYENHQFRILIEVPSSYPMNPPKISFMQNNILHCNVKSATGEICLNILKPEEWTPVWDLLHCVHAVWRLLREPVCDSPLDVDIGNIIRCGDMSAYQGIVKYFLAERERINNH |
| 1705 | sp|P62837|UB2D2\_HUMAN | MALKRIHKELNDLARDPPAQCSAGPVGDDMFHWQATIMGPNDSPYQGGVFFLTIHFPTDYPFKPPKVAFTTRIYHPNINSNGSICLDILRSQWSPALTISKVLLSICSLLCDPNPDDPLVPEIARIYKTDREKYNRIAREWTQKYAM |
| 1706 | sp|Q8C878|UBA3\_MOUSE | MADGEEPEKKRRRIEELLAEKMAVDGGCGDTGDWEGRWNHVKKFLERSGPFTHPDFEPSTESLQFLLDTCKVLVIGAGGLGCELLKNLALSGFRQIHVIDMDTIDVSNLNRQFLFRPKDVGRPKAEVAAEFLNDRVPNCNVVPHFNKIQDFNDTFYRQFHIIVCGLDSIIARRWINGMLISLLNYEDGVLDPSSIVPLIDGGTEGFKGNARVILPGMTACIECTLELYPPQVNFPMCTIASMPRLPEHCIEYVRMLQWPKEQPFGDGVPLDGDDPEHIQWIFQKSIERASQYNIRGVTYRLTQGVVKRIIPAVASTNAVIAAVCATEVFKIATSAYIPLNNYLVFNDVDGLYTYTFEAERKENCPACSQLPQNIQFSPSAKLQEVLDYLTNSASLQMKSPAITATLEGKNRTLYLQSVTSIEERTRPNLSKTLKELGLVDGQELAVADVTTPQTVLFKLHFT |
| 1707 | sp|P40554|URM1\_YEAST | MVNVKVEFLGGLDAIFGKQRVHKIKMDKEDPVTVGDLIDHIVSTMINNPNDVSIFIEDDSIRPGIITLINDTDWELEGEKDYILEDGDIISFTSTLHGG |
| 1708 | sp|P32068|TRPE\_ARATH | MSSSMNVATMQALTFSRRLLPSVASRYLSSSSVTVTGYSGRSSAYAPSFRSIKCVSVSPEASIVSDTKKLADASKSTNLIPIYRCIFSDQLTPVLAYRCLVKEDDREAPSFLFESVEPGSQMSSVGRYSVVGAQPAMEIVAKENKVIVMDHNNETMTEEFVEDPMEIPRKISEKWNPDPQLVQDLPDAFCGGWVGFFSYDTVRYVEKRKLPFSKAPEDDRNLPDMHLGLYDDVVVFDHVEKKAYVIHWIRLDGSLPYEKAYSNGMQHLENLVAKLHDIEPPKLAAGNVNLQTRQFGPSLDNSNVTCEEYKEAVVKAKEHILAGDIFQIVLSQRFERRTFADPFEVYRALRVVNPSPYMGYLQARGCILVASSPEILTKVKQNKIVNRPLAGTSKRGKNEVEDKRLEKELLENEKQCAEHIMLVDLGRNDVGKVTKYGSVKVEKLMNIERYSHVMHISSTVTGELQDGLTCWDVLRAALPVGTVSGAPKVKAMELIDELEPTRRGPYSGGFGGVSFTGDMDIALSLRTIVFPTACQYNTMYSYKDANKRREWVAYLQAGAGVVADSDPQDEHCECQNKAAGLARAIDLAESAFVKK |
| 1709 | sp|Q9NPG3|UBN1\_HUMAN | MSEPHRVQFTSLPGSLNPAFLKKSRKEEAGAGEQHQDCEPAAAAVRITLTLFEPDHKRCPEFFYPELVKNIRGKVKGLQPGDKKKDLSDPFNDEEKERHKVEALARKFEEKYGGKKRRKDRIQDLIDMGYGYDESDSFIDNSEAYDELVPASLTTKYGGFYINSGTLQFRQASESEDDFIKEKKKKSPKKRKLKEGGEKIKKKKKDDTYDKEKKSKKSKFSKAGFTALNASKEKKKKKYSGALSVKEMLKKFQKEKEAQKKREEEHKPVAVPSAEAQGLRELEGASDPLLSLFGSTSDNDLLQAATAMDSLTDLDLEHLLSESPEGSPFRDMDDGSDSLGVGLDQEFRQPSSLPEGLPAPLEKRVKELAQAARAAEGESRQKFFTQDINGILLDIEAQTRELSSQVRSGVYAYLASFLPCSKDALLKRARKLHLYEQGGRLKEPLQKLKEAIGRAMPEQMAKYQDECQAHTQAKVAKMLEEEKDKEQRDRICSDEEEDEEKGGRRIMGPRKKFQWNDEIRELLCQVVKIKLESQDLERNNKAQAWEDCVKGFLDAEVKPLWPKGWMQARTLFKESRRGHGHLTSILAKKKVMAPSKIKVKESSTKPDKKVSVPSGQIGGPIALPSDHQTGGLSIGASSRELPSQASGGLANPPPVNLEDSLDEDLIRNPASSVEAVSKELAALNSRAAGNSEFTLPAPSKAPAEKVGGVLCTEEKRNFAKPSPSAPPPASSLQSPLNFLAEQALALGQSSQEKKPESSGYKELSCQAPLNKGLPEVHQSKAKHHSLPRTSHGPQVAVPVPGPQVKVFHAGTQQQKNFTPPSPFANKLQGPKASPTQCHRSLLQLVKTAAKGQGFHPSAPATSGGLSASSSSSHKTPASSSSALSHPAKPHSVSSAGSSYKNNPFASSISKHGVSSGSSSSGGTPVQSSVSGSLVPGIQPPSVGQATSRPVPSSAGKKMPVSQKLTLVAPPGGPNGDSSGGTQGVAKLLTSPSLKPSAVSSVTSSTSLSKGASGTVLLAGSSLMASPYKSSSPKLSGAMSSNSLGIITPVPIPVHVLSFSADSSAKAGVSKDAIVTGPAPGSFHHGLGHSLLAGLHSSPPHAAPLPHAAVPTHIPQSLPGASQLHGKGPAVPRKL |
| 1710 | sp|P97343|UHMK1\_MOUSE | MAGSGCAWGAEPPRFLEAFGRLWQVQSRLGSGSSASVYRVRCCGTPGSPPGALKQFLPPGTTGAAASAAEYGFRKERAALEQLQGHRNIVTLYGVFTIHFSPNVPSRCLLLELLDVSVSELLLYSSHQGCSMWMIQHCARDVLEALAFLHHEGYVHADLKPRNILWSAENECFKLIDFGLSFKEGNQDVKYIQTDGYRAPEAELQNCLAQAGLQSDTECTSAVDLWSLGIILLEMFSGMKLKHTVRSQEWKANSSAIIDHIFASKAVVNAAIPAYHLRDLIKSMLHDDPGRRIPAEMALCSPFFSIPFAPHIEDLVMLPTPVLRLLNVLDDDYLENEDEYEDVVEDVKEECQKYGPVVSLLVPKENPGRGQVFVEYANAGDSKAAQKLLTGRMFDGKFVVATFYPLSAYKRGYLYQTLL |
| 1711 | sp|Q5DID3|UROL1\_MOUSE | MMSRTVRLVLLALACTVDLSQASGFTENGLSLLSYQLCSYPVTRSVQKLQAVQTSHTAYVYCGGWIPWKKCPKTVYRTQYLAMDVPESRNVTDCCAGFEQLGLYCVLSLNRSREFASRPGVCPTAEAEPLSPSCSLDTDCSGLQKCCSWPGGRHCVSPTPTGTEKSMVSWYNVTVLVKVGFEDLQREDPGLRNHTRLLYSLVTSALQPLNPAVHYLTSTGGKDTFTTVSWLLMGFPRLMTVANVSVMLDDMVNRVYEVVSIQVQDVNECLHSELQACSVREQCRNLEGSYQCVSSQRLNHTDEDCPPIRDFVALNVTSSSFHVSWSLNSTQNYNFHIQVYKGKEILRSAWTRGHTMAVSDLEAGVLYRVRTSYLGCGANVSATLVVKTDAQVFQVTIRIMDRNLTEQILDCSSGEFWNFSRQLFHEVQNSFPQAISDLYRQGRLRMQIVSLQAGSLVVTLRLTLQDPDFSVGVHTLTPMLPVLSVSNVFQVDQQRTFVQDWDECAHSSEHDCHPSARCINLEGSYTCQCLTARDASPSRAGRVCEGDMVIPTGDELSVTTKVTVPAASTGITTFGPETLTESLSSKHPRSTPARSQTWTPVPPSVRDGGSIVRQDRNSTGQGQTHGTHQGTTDAPLHTTRESQELITKDPPFLTATTTGYVVWHSSPTWKTPPNSTRLQNEDPRSSSFPGPPSAPTDVTPESPACVPGPIGKVTVSNVTSTSFSLEWPADIRLSPAFHLTLVSPRGPAMTMETQNNNVTLSGLEWGTLYLVEIVAKVCGKEGARTQLKVRTVAQKLAGNVRITSMQYSESFLNTSSREHREFVELFFRTVRDSLPATLRQHMDAGRIRVDIINITNGSIVVEFNLLMTADLDVREVSAGFLNALQNTSMLEVVRGKTFMQDYNECDMKEDDCAPGTCRNTFGSFTCSCDEGGPDSQVEYSGRSCDGDPSGNMTQTPGSEWSPTPAGTRGVPVPIASSTAQDLPLRLNLMDAVSVSCEIETVIITIQKRFLQQAAIPEASLYLGEPSCNVSRSNSTHVFLVAGWGECGTILQSNMTTTVVTTTLRNNLSPEGVIHHPQFLSPIHCAFQNDVLTSSGYTPQWGVYTVIEDLHGTGNFVTEMQLYIGDSPIPQNYSVSASDEIKIEVGLHRQKSSLKVVLTECWATPSSNAKDPVTFSFINNSCPVPNTYTSVIQNGHSSKAQFKLRIFSFINNSIVYLHCKLRVCMENPRNSCRISCNDFRSLRSSEALHQMTWGPLHRTEGAQACTKPVLGTGYIILLAAAALLVVAGATTLLILRYQRVRQKYNLRIQTDDFSYQVFSQ |
| 1712 | sp|Q96RL1|UIMC1\_HUMAN | MPRRKKKVKEVSESRNLEKKDVETTSSVSVKRKRRLEDAFIVISDSDGEEPKEENGLQKTKTKQSNRAKCLAKRKIAQMTEEEQFALALKMSEQEAREVNSQEEEEEELLRKAIAESLNSCRPSDASATRSRPLATGPSSQSHQEKTTDSGLTEGIWQLVPPSLFKGSHISQGNEAEEREEPWDHTEKTEEEPVSGSSGSWDQSSQPVFENVNVKSFDRCTGHSAEHTQCGKPQESTGRGSAFLKAVQGSGDTSRHCLPTLADAKGLQDTGGTVNYFWGIPFCPDGVDPNQYTKVILCQLEVYQKSLKMAQRQLLNKKGFGEPVLPRPPSLIQNECGQGEQASEKNECISEDMGDEDKEERQESRASDWHSKTKDFQESSIKSLKEKLLLEEEPTTSHGQSSQGIVEETSEEGNSVPASQSVAALTSKRSLVLMPESSAEEITVCPETQLSSSETFDLEREVSPGSRDILDGVRIIMADKEVGNKEDAEKEVAISTFSSSNQVSCPLCDQCFPPTKIERHAMYCNGLMEEDTVLTRRQKEAKTKSDSGTAAQTSLDIDKNEKCYLCKSLVPFREYQCHVDSCLQLAKADQGDGPEGSGRACSTVEGKWQQRLKNPKEKGHSEGRLLSFLEQSEHKTSDADIKSSETGAFRVPSPGMEEAGCSREMQSSFTRRDLNESPVKSFVSISEATDCLVDFKKQVTVQPGSRTRTKAGRGRRRKF |
| 1713 | sp|P22309|UD11\_HUMAN | MAVESQGGRPLVLGLLLCVLGPVVSHAGKILLIPVDGSHWLSMLGAIQQLQQRGHEIVVLAPDASLYIRDGAFYTLKTYPVPFQREDVKESFVSLGHNVFENDSFLQRVIKTYKKIKKDSAMLLSGCSHLLHNKELMASLAESSFDVMLTDPFLPCSPIVAQYLSLPTVFFLHALPCSLEFEATQCPNPFSYVPRPLSSHSDHMTFLQRVKNMLIAFSQNFLCDVVYSPYATLASEFLQREVTVQDLLSSASVWLFRSDFVKDYPRPIMPNMVFVGGINCLHQNPLSQEFEAYINASGEHGIVVFSLGSMVSEIPEKKAMAIADALGKIPQTVLWRYTGTRPSNLANNTILVKWLPQNDLLGHPMTRAFITHAGSHGVYESICNGVPMVMMPLFGDQMDNAKRMETKGAGVTLNVLEMTSEDLENALKAVINDKSYKENIMRLSSLHKDRPVEPLDLAVFWVEFVMRHKGAPHLRPAAHDLTWYQYHSLDVIGFLLAVVLTVAFITFKCCAYGYRKCLGKKGRVKKAHKSKTH |
| 1714 | sp|Q61069|USF1\_MOUSE | MKGQQKTAETEEGTVQIQEGAVATGEDPTSVAIASIQSAATFPDPNVKYVFRTENGGQVMYRVIQVSEGQLDGQTEGSGAISGYPATQSMTQAVIQGAFTSDDAVDTEGAAAETHYTYFPSTAVGDGSGGTTSGSTTAVVTTQGSEALLGQATPPSTGQFFVMMSPQEVLQGGSQRSIAPRTHPYSPKSEAPRTTRDEKRRAQHNEVERRRRDKINNWIVQLSKIIPDCSMESTKSGQSKGGILSKACDYIQELRQSNHRLSEELQGLDQLQLDNDVLRQQVEDLKNKNLLLRAQLRHHGLEVVIKNDSN |
| 1715 | sp|Q63886|UD11\_MOUSE | MTVVCWSSRLLLLLPYLLLCVFGPSASHAGRLLVFPMDGSHWLSMLGVIQQLQQKGHEVVVIAPEASIHIKEGSFYTLRKFPVPFQKENVTATLVELGRTAFNQDSFLLRVVKIYMKVKRDSSMLLAGCSHLLHNAEFMASLEESHFDALLTDPFLPCGSIVAQYLTVPTVYFLNKLPCSLDSEATQCPVPLSYVPKSLSFNSDRMNFLQRVKNVLLAVSENFMCRVVYSPYGSLATEILQKEVTVQDLLSPASIWLMRSDFVKDYPRPIMPNMVFIGGINCLQKKPLSQEFEAYVNASGEHGIVVFSLGSMVSEIPEKKAMEIAEALGRIPQTVLWRYTGTRPSNLAKNTILVKWLPQNDLLGHPKTRAFITHSGSHGIYEGICNGVPMVMMPLFGDQMDNAKRMETRGAGVTLNVLEMTADDLENALKTVINNKSYKENIMRLSSLHKDRPIEPLDLAVFWVEYVMRHKGAPHLRPAAHDLTWYQYHSLDVIGFLLAIVLTVVFIVFKCCAYGCRKCFGGKGRVKKSHKSKTH |
| 1716 | sp|Q23551|UNC22\_CAEEL | MVGAPRFTQKPSIQQTPTGDLLMECHLEADPQPTIAWQHSGNLLEPSGRVVQTLTPLGGSLYKATLVIKEPNAGDGGAYKCTARNQLGESNANINLNFAGAGGDEAKSRGPSFVGKPRIIPKDGGALIVMECKVKSASTPVAKWMKDGVPLSMGGLYHAIFSDLGDQTYLCQLEIRGPSSSDAGQYRCNIRNDQGETNANLALNFEEPDPSERQERKRSTASPRPSSRGPGSRPSSPKKSMKSREGTPKRTLKPREGSPSKKLRSRTSTPVNEEVSQSESRRSSRTDKMEVDQVSGASKRKPDGLPPPGGDEKKLRAGSPSTRKSPSRKSASPTPSRKGSSAGGAASGTTGASASATSATSGGSASSDASRDKYTRPPIVLEASRSQTGRIGGSVVLEVQWQCHSSTIIEWYRDGTLVRNSSEYSQSFNGSIAKLQVNKLTEEKSGLYKCHAKCDYGEGQSSAMVKIEQSDVEEELMKHRKDAEDEYQKEEQKSQTLQAETKKRVARRSKSKSKSPAPQAKKSTTSESGRQEASEVEHKRSSSVRPDPDEESQLDEIPSSGLTIPEERRRELLGQVGESDDEVSESISELPSFAGGKPRRKTDSPPKQDDMFSRDTLLRKTTTSTKNESSTVEEKTKLRKTVKKVDGELDFKAMVKLKKVKKEEGGTTEKSGFPLDHADSTSSVLSQESRSRRGSNAPFAKDGLPEQPANPFAQLKKVKSGAGGLEKSDSMASLKKLDLKKGKIDDNSDGAFKVQLKKVVKKEVKESTISVKEKNGTESGIKTEFKMEKRERTTLQKYEKTDSDGSKKEDKPKKVSIAPVSTNKSSDDEPSTPRHHKEVEEKSTSEELKAKVAGRQVGQKRNGAQKPEEPKNLLSQIQLKKVTKKAHDDTNELEGIKLKKVTTVPKHVADDDSQSESESRRGSVFGELRRGSRAPRDSADNSRRDSIRRSSIDMRRESVQEILEKTSTPLVPSGASGSAPKIVEVPENVTVVENETAILTCKVSGSPAPTFRWFKGSREVISGGRFKHITDGKEHTVALALLKCRSQDEGPYTLTIENVHGTDSADVKLLVTSDNGLDFRAMLKHRESQAGFQKDGEGGGAGGGGGEKKPMTEAERRQSLFPGKKVEKWDIPLPEKTVQQQVDKICEWKCTYSRPNAKIRWYKDRKEIFSGGLKYKIVIEKNVCTLIINNPEVDDTGKYTCEANGVPTHAQLTVLEPPMKYSFLNPLPNTQEIYRTKQAVLTCKVNTPRAPLVWYRGSKAIQEGDPRFIIEKDAVGRCTLTIKEVEEDDQAEWTARITQDVFSKVQVYVEEPRHTFVVPMKSQKVNESDLATLETDVNDKDAEVVWWHDGKRIDIDGVKFKVESSNRKRRLIINGARIEDHGEYKCTTKDDRTMAQLIVDAKNKFIVALKDTEVIEKDDVTLMCQTKDTKTPGIWFRNGKQISSMPGGKFETQSRNGTHTLKIGKIEMNEADVYEIDQAGLRGSCNVTVLEAEKRPILNWKPKKIEAKAGEPCVVKVPFQIKGTRRGDPKAQILKNGKPIDEEMRKLVEVIIKDDVAEIVFKNPQLADTGKWALELGNSAGTALAPFELFVKDKPKPPKGPLETKNVTAEGLDLVWGTPDPDEGAPVKAYIIEMQEGRSGNWAKVGETKGTDFKVKDLKEHGEYKFRVKALNECGLSDPLTGESVLAKNPYGVPGKPKNMDAIDVDKDHCTLAWEPPEEDGGAPITGYIIERREKSEKDWHQVGQTKPDCCELTDKKVVEDKEYLYRVKAVNKAGPGDPCDHGKPIKMKAKKASPEFTGGGIKDLRLKVGETIKYDVPISGEPLPECLWVVNGKPLKAVGRVKMSSERGKHIMKIENAVRADSGKFTITLKNSSGSCDSTATVTVVGRPTPPKGPLDIADVCADGATLSWNPPDDDGGDPLTGYIVEAQDMDNKGKYIEVGKVDPNTTTLKVNGLRNKGNYKFRVKAVNNEGESEPLSADQYTQIKDPWDEPGKPGRPEITDFDADRIDIAWEPPHKDGGAPIEEYIVEVRDPDTKEWKEVKRVPDTNASISGLKEGKEYQFRVRAVNKAGPGQPSEPSEKQLAKPKFIPAWLKHDNLKSITVKAGATVRWEVKIGGEPIPEVKWFKGNQQLENGIQLTIDTRKNEHTILCIPSAMRSDVGEYRLTVKNSHGADEEKANLTVLDRPSKPNGPLEVSDVFEDNLNLSWKPPDDDGGEPIEYYEVEKLDTATGRWVPCAKVKDTKAHIDGLKKGQTYQFRVKAVNKEGASDALSTDKDTKAKNPYDEPGKTGTPDVVDWDADRVSLEWEPPKSDGGAPITQYVIEKKGKHGRDWQECGKVSGDQTNAEILGLKEGEEYQFRVKAVNKAGPGEASDPSRKVVAKPRNLKPWIDREAMKTITIKVGNDVEFDVPVRGEPPPKKEWIFNEKPVDDQKIRIESEDYKTRFVLRGATRKHAGLYTLTATNASGSDKHSVEVIVLGKPSSPLGPLEVSNVYEDRADLEWKVPEDDGGAPIDHYEIEKMDLATGRWVPCGRSETTKTTVPNLQPGHEYKFRVRAVNKEGESDPLTTNTAILAKNPYEVPGKVDKPELVDWDKDHVDLAWNAPDDGGAPIEAFVIEKKDKNGRWEEALVVPGDQKTATVPNLKEGEEYQFRISARNKAGTGDPSDPSDRVVAKPRNLAPRIHREDLSDTTVKVGATLKFIVHIDGEPAPDVTWSFNGKGIGESKAQIENEPYISRFALPKALRKQSGKYTITATNINGTDSVTINIKVKSKPTKPKGPIEVTDVFEDRATLDWKPPEDDGGEPIEFYEIEKMNTKDGIWVPCGRSGDTHFTVDSLNKGDHYKFRVKAVNSEGPSDPLETETDILAKNPFDRPDRPGRPEPTDWDSDHVDLKWDPPLSDGGAPIEEYQIEKRTKYGRWEPAITVPGGQTTATVPDLTPNEEYEFRVVAVNKGGPSDPSDASKAVIAKPRNLKPHIDRDALKNLTIKAGQSISFDVPVSGEPAPTVTWHWPDNREIRNGGRVKLDNPEYQSKLVVKQMERGDSGTFTIKAVNANGEDEATVKINVIDKPTSPNGPLDVSDVHGDHVTLNWRAPDDDGGIPIENYVIEKYDTASGRWVPAAKVAGDKTTAVVDGLIPGHEYKFRVAAVNAEGESDPLETFGTTLAKDPFDKPGKTNAPEITDWDKDHVDLEWKPPANDGGAPIEEYVVEMKDEFSPFWNDVAHVPAGQTNATVGNLKEGSKYEFRIRAKNKAGLGDPSDSASAVAKARNVPPVIDRNSIQEIKVKAGQDFSLNIPVSGEPTPTITWTFEGTPVESDDRMKLNNEDGKTKFHVKRALRSDTGTYIIKAENENGTDTAEVKVTVLDHPSSPRGPLDVTNIVKDGCDLAWKEPEDDGGAEISHYVIEKQDAATGRWTACGESKDTNFHVDDLTQGHEYKFRVKAVNRHGDSDPLEAREAIIAKDPFDRADKPGTPEIVDWDKDHADLKWTPPADDGGAPIEGYLVEMRTPSGDWVPAVTVGAGELTATVDGLKPGQTYQFRVKALNKAGESTPSDPSRTMVAKPRHLAPKINRDMFVAQRVKAGQTLNFDVNVEGEPAPKIEWFLNGSPLSSGGNTHIDNNTDNNTKLTTKSTARADSGKYKIVATNESGKDEHEVDVNILDIPGAPEGPLRHKDITKESVVLKWDEPLDDGGSPITNYVVEKQEDGGRWVPCGETSDTSLKVNKLSEGHEYKFRVKAVNRQGTSAPLTSDHAIVAKNPFDEPDAPTDVTPVDWDKDHVDLEWKPPANDGGAPIDAYIVEKKDKFGDWVECARVDGKTTKATADNLTPGETYQFRVKAVNKAGPGKPSDPTGNVVAKPRRMAPKLNLAGLLDLRIKAGTPIKLDIAFEGEPAPVAKWKANDATIDTGARADVTNTPTSSAIHIFSAVRGDTGVYKIIVENEHGKDTAQCNVTVLDVPGTPEGPLKIDEIHKEGCTLNWKPPTDNGGTDVLHYIVEKMDTSRGTWQEVGTFPDCTAKVNKLVPGKEYAFRVKAVNLQGESKPLEAEEPIIAKNQFDVPDPVDKPEVTDWDKDRIDIKWNPTANNGGAPVTGYIVEKKEKGSAIWTEAGKTPGTTFSADNLKPGVEYEFRVIAVNAAGPSDPSDPTDPQITKARYLKPKILTASRKIKIKAGFTHNLEVDFIGAPDPTATWTVGDSGAALAPELLVDAKSSTTSIFFPSAKRADSGNYKLKVKNELGEDEAIFEVIVQDRPSAPEGPLEVSDVTKDSCVLNWKPPKDDGGAEISNYVVEKRDTKTNTWVPVSAFVTGTSITVPKLTEGHEYEFRVMAENTFGRSDSLNTDEPVLAKDPFGTPGKPGRPEIVDTDNDHIDIKWDPPRDNGGSPVDHYDIERKDAKTGRWIKVNTSPVQGTAFSDTRVQKGHTYEYRVVAVNKAGPGQPSDSSAAATAKPMHEAPKFDLDLDGKEFRVKAGEPLVITIPFTASPQPDISWTKEGGKPLAGVETTDSQTKLVIPSTRRSDSGPVKIKAVNPYGEAEANIKITVIDKPGAPENITYPAVSRHTCTLNWDAPKDDGGAEIAGYKIEYQEVGSQIWDKVPGLISGTAYTVRGLEHGQQYRFRIRAENAVGLSDYCQGVPVVIKDPFDPPGAPSTPEITGYDTNQVSLAWNPPRDDGGSPILGYVVERFEKRGGGDWAPVKMPMVKGTECIVPGLHENETYQFRVRAVNAAGHGEPSNGSEPVTCRPYVEKPGAPDAPRVGKITKNSAELTWNRPLRDGGAPIDGYIVEKKKLGDNDWTRCNDKPVRDTAFEVKNLGEKEEYEFRVIAVNSAGEGEPSKPSDLVLIEEQPGRPIFDINNLKDITVRAGETIQIRIPYAGGNPKPIIDLFNGNSPIFENERTVVDVNPGEIVITTTGSKRSDAGPYKISATNKYGKDTCKLNVFVLDAPGKPTGPIRATDIQADAMTLSWRPPKDNGGDAITNYVVEKRTPGGDWVTVGHPVGTTLRVRNLDANTPYEFRVRAENQYGVGEPLETDDAIVAKNPFDTPGAPGQPEAVETSEEAITLQWTRPTSDGGAPIQGYVIEKREVGSTEWTKAAFGNILDTKHRVTGLTPKKTYEFRVAAYNAAGQGEYSVNSVPITADNAPTRPKINMGMLTRDILAYAGERAKILVPFAASPAPKVTFSKGENKISPTDPRVKVEYSDFLATLTIEKSELTDGGLYFVELENSQGSDSASIRLKVVDKPASPQHIRVEDIAPDCCTLYWMPPSSDGGSPITNYIVEKLDLRHSDGKWEKVSSFVRNLNYTVGGLIKDNRYRFRVRAETQYGVSEPCELADVVVAKYQFEVPNQPEAPTVRDKDSTWAELEWDPPRDGGSKIIGYQVQYRDTSSGRWINAKMDLSEQCHARVTGLRQNGEFEFRIIAKNAAGFSKPSPPSERCQLKSRFGPPGPPIHVGAKSIGRNHCTITWMAPLEDGGSKITGYNVEIREYGSTLWTVASDYNVREPEFTVDKLREFNDYEFRVVAINAAGKGIPSLPSGPIKIQESGGSRPQIVVKPEDTAQPYNRRAVFTCEAVGRPEPTARWLRNGRELPESSRYRFEASDGVYKFTIKEVWDIDAGEYTVEVSNPYGSDTATANLVVQAPPVIEKDVPNTILPSGDLVRLKIYFSGTAPFRHSLVLNREEIDMDHPTIRIVEFDDHILITIPALSVREAGRYEYTVSNDSGEATTGFWLNVTGLPEAPQGPLHISNIGPSTATLSWRPPVTDGGSKITSYVVEKRDLSKDEWVTVTSNVKDMNYIVTGLFENHEYEFRVSAQNENGIGAPLVSEHPIIARLPFDPPTSPLNLEIVQVGGDYVTLSWQRPLSDGGGRLRGYIVEKQEEEHDEWFRCNQNPSPPNNYNVPNLIDGRKYRYRVFAVNDAGLSDLAELDQTLFQASGSGEGPKIVSPLSDLNEEVGRCVTFECEISGSPRPEYRWFKGCKELVDTSKYTLINKGDKQVLIINDLTSDDADEYTCRATNSSGTRSTRANLRIKTKPRVFIPPKYHGGYEAQKGETIELKIPYKAYPQGEARWTKDGEKIENNSKFSITTDDKFATLRISNASREDYGEYRVVVENSVGSDSGTVNVTVADVPEPPRFPIIENILDEAVILSWKPPALDGGSLVTNYTIEKREAMGGSWSPCAKSRYTYTTIEGLRAGKQYEFRIIAENKHGQSKPCEPTAPVLIPGDERKRRRGYDVDEQGKIVRGKGTVSSNYDNYVFDIWKQYYPQPVEIKHDHVLDHYDIHEELGTGAFGVVHRVTERATGNNFAAKFVMTPHESDKETVRKEIQTMSVLRHPTLVNLHDAFEDDNEMVMIYEFMSGGELFEKVADEHNKMSEDEAVEYMRQVCKGLCHMHENNYVHLDLKPENIMFTTKRSNELKLIDFGLTAHLDPKQSVKVTTGTAEFAAPEVAEGKPVGYYTDMWSVGVLSYILLSGLSPFGGENDDETLRNVKSCDWNMDDSAFSGISEDGKDFIRKLLLADPNTRMTIHQALEHPWLTPGNAPGRDSQIPSSRYTKIRDSIKTKYDAWPEPLPPLGRISNYSSLRKHRPQEYSIRDAFWDRSEAQPRFIVKPYGTEVGEGQSANFYCRVIASSPPVVTWHKDDRELKQSVKYMKRYNGNDYGLTINRVKGDDKGEYTVRAKNSYGTKEEIVFLNVTRHSEPLKFEPLEPMKKAPSPPRVEEFKERRSAPFFTFHLRNRLIQKNHQCKLTCSLQGNPNPTIEWMKDGHPVDEDRVQVSFRSGVCSLEIFNARVDDAGTYTVTATNDLGVDVSECVLTVQTKGGEPIPRVSSFRPRRAYDTLSTGTDVERSHSYADMRRRSLIRDVSPDVRSAADDLKTKITNELPSFTAQLSDSETEVGGSAEFSAAVSGQPEPLIEWLHNGERISESDSRFRASYVAGKATLRISDAKKSDEGQYLCRASNSAGQEQTRATLTVKGDQPLLNGHAGQAVESELRVTKHLGGEIVNNGESVTFEARVQGTPEEVLWMRNGQELTNGDKTSISQDGETLSFTINSADASDAGHYQLEVRSKGTNLVSVASLVVVGEKADPPVTRLPSSVSAPLGGSTAFTIEFENVEGLTVQWFRGSEKIEKNERVKSVKTGNTFKLDIKNVEQDDDGIYVAKVVKEKKAIAKYAAALLLV |
| 1717 | sp|Q06078|UTP21\_YEAST | MSIDLKKRKVEEDVRSRGKNSKIFSPFRIIGNVSNGVPFATGTLGSTFYIVTCVGKTFQIYDANTLHLLFVSEKETPSSIVALSAHFHYVYAAYENKVGIYKRGIEEHLLELETDANVEHLCIFGDYLCASTDDNSIFIYKKSDPQDKYPSEFYTKLTVTEIQGGEIVSLQHLATYLNKLTVVTKSNVLLFNVRTGKLVFTSNEFPDQITTAEPAPVLDIIALGTVTGEVIMFNMRKGKRIRTIKIPQSRISSLSFRTDGSSHLSVGTSSGDLIFYDLDRRSRIHVLKNIHRESYGGVTQATFLNGQPIIVTSGGDNSLKEYVFDPSLSQGSGDVVVQPPRYLRSRGGHSQPPSYIAFADSQSHFMLSASKDRSLWSFSLRKDAQSQEMSQRLHKKQDGGRVGGSTIKSKFPEIVALAIENARIGEWENIITAHKDEKFARTWDMRNKRVGRWTFDTTDDGFVKSVAMSQCGNFGFIGSSNGSITIYNMQSGILRKKYKLHKRAVTGISLDGMNRKMVSCGLDGIVGFYDFNKSTLLGKLKLDAPITAMVYHRSSDLFALALDDLSIVVIDAVTQRVVRQLWGHSNRITAFDFSPEGRWIVSASLDSTIRTWDLPTGGCIDGIIVDNVATNVKFSPNGDLLATTHVTGNGICIWTNRAQFKTVSTRTIDESEFARMALPSTSVRGNDSMLSGALESNGGEDLNDIDFNTYTSLEQIDKELLTLSIGPRSKMNTLLHLDVIRKRSKPKEAPKKSEKLPFFLQLSGEKVGDEASVREGIAHETPEEIHRRDQEAQKKLDAEEQMNKFKVTGRLGFESHFTKQLREGSQSKDYSSLLATLINFSPAAVDLEIRSLNSFEPFDEIVWFIDALTQGLKSNKNFELYETFMSLLFKAHGDVIHANNKNQDIASALQNWEDVHKKEDRLDDLVKFCMGVAAFVTTA |
| 1718 | sp|P0DTE5|UD2A2\_HUMAN | MVSIRDFTMPKKFVQMLVFNLTLTEVVLSGNVLIWPTDGSHWLNIKIILEELIQRNHNVTVLASSATLFINSNPDSPVNFEVIPVSYKKSNIDSLIEHMIMLWIDHRPTPLTIWAFYKELGKLLDTFFQINIQLCDGVLKNPKLMARLQKGGFDVLVADPVTICGDLVALKLGIPFMYTLRFSPASTVERHCGKIPAPVSYVPAALSELTDQMTFGERIKNTISYSLQDYIFQSYWGEWNSYYSKILGRPTTLCETMGKAEIWLIRTYWDFEFPRPYLPNFEFVGGLHCKPAKPLPKEMEEFIQSSGKNGVVVFSLGSMVKNLTEEKANLIASALAQIPQKVLWRYKGKKPATLGNNTQLFDWIPQNDLLGHPKTKAFITHGGTNGIYEAIYHGVPMVGVPMFADQPDNIAHMKAKGAAVEVNLNTMTSVDLLSALRTVINEPSYKENAMRLSRIHHDQPVKPLDRAVFWIEFVMRHKGAKHLRVAAHDLTWFQYHSLDVIGFLLVCVTTAIFLVIQCCLFSCQKFGKIGKKKKRE |
| 1719 | sp|Q86UV5|UBP48\_HUMAN | MAPRLQLEKAAWRWAETVRPEEVSQEHIETAYRIWLEPCIRGVCRRNCKGNPNCLVGIGEHIWLGEIDENSFHNIDDPNCERRKKNSFVGLTNLGATCYVNTFLQVWFLNLELRQALYLCPSTCSDYMLGDGIQEEKDYEPQTICEHLQYLFALLQNSNRRYIDPSGFVKALGLDTGQQQDAQEFSKLFMSLLEDTLSKQKNPDVRNIVQQQFCGEYAYVTVCNQCGRESKLLSKFYELELNIQGHKQLTDCISEFLKEEKLEGDNRYFCENCQSKQNATRKIRLLSLPCTLNLQLMRFVFDRQTGHKKKLNTYIGFSEILDMEPYVEHKGGSYVYELSAVLIHRGVSAYSGHYIAHVKDPQSGEWYKFNDEDIEKMEGKKLQLGIEEDLAEPSKSQTRKPKCGKGTHCSRNAYMLVYRLQTQEKPNTTVQVPAFLQELVDRDNSKFEEWCIEMAEMRKQSVDKGKAKHEEVKELYQRLPAGAEPYEFVSLEWLQKWLDESTPTKPIDNHACLCSHDKLHPDKISIMKRISEYAADIFYSRYGGGPRLTVKALCKECVVERCRILRLKNQLNEDYKTVNNLLKAAVKGSDGFWVGKSSLRSWRQLALEQLDEQDGDAEQSNGKMNGSTLNKDESKEERKEEEELNFNEDILCPHGELCISENERRLVSKEAWSKLQQYFPKAPEFPSYKECCSQCKILEREGEENEALHKMIANEQKTSLPNLFQDKNRPCLSNWPEDTDVLYIVSQFFVEEWRKFVRKPTRCSPVSSVGNSALLCPHGGLMFTFASMTKEDSKLIALIWPSEWQMIQKLFVVDHVIKITRIEVGDVNPSETQYISEPKLCPECREGLLCQQQRDLREYTQATIYVHKVVDNKKVMKDSAPELNVSSSETEEDKEEAKPDGEKDPDFNQSNGGTKRQKISHQNYIAYQKQVIRRSMRHRKVRGEKALLVSANQTLKELKIQIMHAFSVAPFDQNLSIDGKILSDDCATLGTLGVIPESVILLKADEPIADYAAMDDVMQVCMPEEGFKGTGLLGH |
| 1720 | sp|Q9SLB9|VOZ2\_ARATH | MSNHPKITSAHQNVEEKLRELQERFCHLQAARKEGRHGDLALLEAQISQNIREWQAELTAPSPESSLLGEGISQFLEEFAPLLKLDEEDDATSTLKEHAGAKPDPEGFSQSLCPPEWTSENFSQSPFNGNFSCGFEDALNSTETHGQQLHYGYEGFDPSINSAPDFHDQKLSSNLDITSQYDYIFSEVRQELDNSPSTKLDSSEEIDNFAEFSTPSSVRVPPSAFLGPKCALWDCTRPAQGSEWYLDYCSNYHGTLALNEDSPGTAPVLRPGGISLKDNLLIDALRAKTQGKNVGIPVCEGAVNTKCPWNAAELFHLELVEGETIREWLFFDKPRRAYDSGNRKQRSLPDYSGRGWHESRKQLMKEQEGQKRSYYMDPQPPGPFEWHLFEYQINESDACALYRLELKVGNGKKSPKGKISKDPLADLQKKMGQFKVASDKPSPPTKGRKE |
| 1721 | sp|Q9QZM0|UBQL2\_MOUSE | MAENGESSGPPRPSRGPAAAPGAASPPAEPKIIKVTVKTPKEKEEFAVPENSTVQQFKEAISKRFKSQTDQLVLIFAGKILKDQDTLMQHGIHDGLTVHLVIKSQNRPQGQATTQPSTTAGTSTTTTTTTTAAAPAATTSSAPRSSSTPTTTNSSSFGLGSLSSLSNLGLNSPNFTELQNQMQQQLLASPEMMIQIMENPFVQSMLSNPDLMRQLIMANPQMQQLIQRNPEISHLLNNPDIMRQTLEIARNPAMMQEMMRNQDLALSNLESIPGGYNALRRMYTDIQEPMLNAAQEQFGGNPFATVGSSSTSGEGTQPSRTENRDPLPNPWAPPPTTQTAATTTTTTTTSSGSGSGSSSSSTTAGNTMAAANYVASIFSTPGMQSLLQQITENPQLIQNMLSAPYMRSMMQSLSQNPDMAAQMMLSSPLFTSNPQLQEQMRPQLPNFLQQMQNPETIAAMSNPRAMQALMQIQQGLQTLATEAPGLIPSFAPGVGMGVLGTAITPVGPVTPIGPIGPIVPFTPIGPIGPIGPTGPASSPGSTGTGIPPATTVSSSAPTETISPTSESGPNQQFIQQMVQALTGGSPPQPPNPEVRFQQQLEQLNAMGFLNREANLQALIATGGDINAAIERLLGSQPS |
| 1722 | sp|Q8QHL3|VGFR1\_CHICK | MPRQLLSGTVLLGAAFLLAGSTSGSKLKVPVLSVNGRQHVVQAGQTLNLTCRGEMLHSWSLPEALSKDSKRLNVTKYACGRNGTQFCSTLTLSRTQANDTGRYSCRYPTSPVKKKRESIVYVFINDTSNPFVEMHSDIPKIIHMTVGKEMIIPCRVTAPNIAVTLKKIPRETLIPDGKTIIWDNMRGFRIPEATYRFIGLLSCETTIGGHKYSTKYLTHRETNTIFDIKLSTPRLVKLLKGDSLAINCTVKAAWNTRVQMTWTYPGEAMKRGSVTQRIDQKNREANVFYSILVIDKVRDIDKGQYACHVKSGPSNKLVNTTVIVYDKRFINLKRRRKTMLEAVAGRKSYRLPMKVKAFPSPEVTWLKDGLPAAEKCARYMVKNYSLIIKDVAEEDAGNYTIILSLRQWNLSKNLTVTLKVNVKPQIYENAVSSFPDPNLYLLSSKQVLTCTVYGIPPPKITWMWYPCRQNHSKTRRGFCSRTDGSFNLKTGSNIGNRIQSIIERTAIIEGKNKTASTLVVAEAKSSGIYSCVASNKVGKAERNVSFLVTDVPSGFHISLEKVPIEGENLVLSCSANKFMYKDISWILPRTVTNQTKARKALNKEYSITLTLTIRNVSLAHSGTYTCRARNIFTGKEVLQKKDVSIRAQEAPALLRQLMDQTVNTSNSAMLECQVHGIPEPQITWFKNHEEIQQESGIILGPGSRMLFIERVKEEDEGLYQCIATNLKGSVESTAYVTVQGTVERSNLELITLTCTCVAATLFWLLLTLFIRKLKRPYFSETKTNHYLSIIMDPDEVPLDEQCECLPYDASKWEIARERLKLGKSLGHGAFGKVVQASAFGIKKSPTCRIVAVKMLKEGATASEYKALMTELKILIHIGHHLNIVNLLGACTKNGGPLMVIVEYCKYGNLSNYLKSKRNFFSPTKDPSLQGELMKDKKGIEPVEGKKQRLASVTSSESFASSGFQEDKSLSDAEEDEEDAAELYKLPLTMEDLISYSFQVARGMEFLSSRKCIHRDLAARNILLSENNVVKICDFGLARDIYKNPDYVRKGDARLPLKWMAPESIFDKIYNTKSDVWSYGVLLWEIFSLGASPYPGVQIDEDFCSKLKEGTRMRAPEQATEEIYQIMLDCWRSNPNERPWFSELVKRLGDLLQASVQQEGKDYIPLDTIFTAESGFPPASDPLCNEKFPVPSPNCRSTERARYINTFKIKPPQRIKTFEELPIKEKLVFNDYQADSGMVLASEELKRFTWTGSKQKWTLFGMKGVSRSKESGLSGITKPRSFCSFSCDQLSESKRRYTYGNTVLEKMKACHSPPPDYSSVVHYSQPSI |
| 1723 | sp|Q03308|VPS16\_YEAST | MKNPSFDWERLKDVFYRSRAIGELKWPTQYEEFKCALSLTVIAVEIQDFIQVYNYFGQLLGKINLQRIHEDIIKFEFDKDEKLILVTKSSIKIVKGWSPLTIESVPLQDPTIDTIWDYHNGIMLLAKSRDIYKLNGNEWELLYENKDKKYNLLTKNHWSCNDDSIILLDVDHVYQVSTSNGALLKLITDSSWHKVTISSRGFICLYNMKDNKLQIFRDPARILMEHNLDSTPDDICWCGNDTVACSFEDEIKLYGPDGLYVTFWYPFTVTNLRAEVDGLKVITTEKIYFLSRVQPQTSNIFRIGSTEPGAMLVDSFSLLEDHAPKAIEILKNFVLEKGVLDCIAAAIDEFEPKLQKMLLNAASYGKASLQYKSFDASIFVNACNTIKLLNCFRSFGIFLTVEEYRCISLKGVIDRLLKYHRYYECIQICKLANERFLLGYVFTEWAKDKIKGSPDMEDDELLDKIKSRLSVIDMTDTLQMVAVAKVAYLEGRFQLSRNLALLEKNEEARIEQLYNLDDDSIALKECIKVQNYSLTISLLIALSKKLTNSQLTKLLIIDMFNNPLYLYYMRMDKAYLYDFYRQTDRFIDLAHVLLQQGKEQQSLHSFLPQIKDLYSQVQNSEVVNNTIEQLQRQEKLWIYQESLGKRFAISFTNMTLDQTLSKLIETGQDKQVKEIVKKFKISEKKLYHLKCKTLVEAKKFDELLQFAQSRKSPIGYMPFYTYLKSRGHMDKASPYVNMIPGLSYQEKKKLYVECRGFRDAIQLAGKEKDIPGLKEIYNIIPPNEPELKALANETMSRI |
| 1724 | sp|Q0VGU4|VGF\_MOUSE | MKTFTLPASVLFCFLLLIQGLGAAPPGRPDVFPPPLSSEHNGQVAEDAVSRPKDDGVPEVRAARNPEPQDQGELFQGVDPRALASVLLQALDRPASPPSVPGGSQQGTPEEAAEALLTESVRSQTHSLPAPEIQAPAVAPPRPQTQDRDPEEDDRSEELEALASLLQELRDFSPSNAKRQQETAAAETETRTHTLTRVNLESPGPERVWRASWGEFQARVPERAPLPPPVPSQFQARMSESAPLPETHQFGEGVSSPKTHLGETLTPLSKAYQSLGGPFPKVRRLEGSFLGGSEAGERLLQQGLAQVEAGRRQAEATRQAAAQEERLADLASDLLLQYLLQGGARQRDLGGRELQETQQERENEREEEAEQERRGGGEDDVGEEDEEAAEAEAEAEEAERARQNALLFAEEEDGEAGAEDKRSQEEAPGHRRKDAEGAEEGGEEDDDDEEMDPQTIDSLIELSTKLHLPADDVVSIIEEVEEKRKRKKNAPPEPVPPPRAAPAPTHVRSPQPPPPAPARDELPDWNEVLPPWDREEDEVFPPGPYHPFPNYIRPRTLQPPASSRRRHFHHALPPARHHPDLEAQARRAQEEADAEERRLQEQEELENYIEHVLLHRP |
| 1725 | sp|Q9ULK5|VANG2\_HUMAN | MDTESQYSGYSYKSGHSRSSRKHRDRRDRHRSKSRDGGRGDKSVTIQAPGEPLLDNESTRGDERDDNWGETTTVVTGTSEHSISHDDLTRIAKDMEDSVPLDCSRHLGVAAGATLALLSFLTPLAFLLLPPLLWREELEPCGTACEGLFISVAFKLLILLLGSWALFFRRPKASLPRVFVLRALLMVLVFLLVVSYWLFYGVRILDARERSYQGVVQFAVSLVDALLFVHYLAVVLLELRQLQPQFTLKVVRSTDGASRFYNVGHLSIQRVAVWILEKYYHDFPVYNPALLNLPKSVLAKKVSGFKVYSLGEENSTNNSTGQSRAVIAAAARRRDNSHNEYYYEEAEHERRVRKRRARLVVAVEEAFTHIKRLQEEEQKNPREVMDPREAAQAIFASMARAMQKYLRTTKQQPYHTMESILQHLEFCITHDMTPKAFLERYLAAGPTIQYHKERWLAKQWTLVSEEPVTNGLKDGIVFLLKRQDFSLVVSTKKVPFFKLSEEFVDPKSHKFVMRLQSETSV |
| 1726 | sp|P47901|V1BR\_HUMAN | MDSGPLWDANPTPRGTLSAPNATTPWLGRDEELAKVEIGVLATVLVLATGGNLAVLLTLGQLGRKRSRMHLFVLHLALTDLAVALFQVLPQLLWDITYRFQGPDLLCRAVKYLQVLSMFASTYMLLAMTLDRYLAVCHPLRSLQQPGQSTYLLIAAPWLLAAIFSLPQVFIFSLREVIQGSGVLDCWADFGFPWGPRAYLTWTTLAIFVLPVTMLTACYSLICHEICKNLKVKTQAWRVGGGGWRTWDRPSPSTLAATTRGLPSRVSSINTISRAKIRTVKMTFVIVLAYIACWAPFFSVQMWSVWDKNAPDEDSTNVAFTISMLLGNLNSCCNPWIYMGFNSHLLPRPLRHLACCGGPQPRMRRRLSDGSLSSRHTTLLTRSSCPATLSLSLSLTLSGRPRPEESPRDLELADGEGTAETIIF |
| 1727 | sp|Q39191|WAK1\_ARATH | MKVQEGLFLVAIFFSLACTQLVKGQHQPGENCQNKCGNITIEYPFGISSGCYYPGNESFSITCKEDRPHVLSDIEVANFNHSGQLQVLLNRSSTCYDEQGKKTEEDSSFTLENLSLSANNKLTAVGCNALSLLDTFGMQNYSTACLSLCDSPPEADGECNGRGCCRVDVSAPLDSYTFETTSGRIKHMTSFHDFSPCTYAFLVEDDKFNFSSTEDLLNLRNVMRFPVLLDWSVGNQTCEQVGSTSICGGNSTCLDSTPRNGYICRCNEGFDGNPYLSAGCQDVNECTTSSTIHRHNCSDPKTCRNKVGGFYCKCQSGYRLDTTTMSCKRKEFAWTTILLVTTIGFLVILLGVACIQQRMKHLKDTKLREQFFEQNGGGMLTQRLSGAGPSNVDVKIFTEDGMKKATNGYAESRILGQGGQGTVYKGILPDNSIVAIKKARLGDSSQVEQFINEVLVLSQINHRNVVKLLGCCLETEVPLLVYEFITNGTLFDHLHGSMIDSSLTWEHRLKIAIEVAGTLAYLHSSASIPIIHRDIKTANILLDVNLTAKVADFGASRLIPMDKEELETMVQGTLGYLDPEYYNTGLLNEKSDVYSFGVVLMELLSGQKALCFKRPQSSKHLVSYFATATKENRLDEIIGGEVMNEDNLKEIQEAARIAAECTRLMGEERPRMKEVAAKLEALRVEKTKHKWSDQYPEENEHLIGGHILSAQGETSSSIGYDSIKNVAILDIETGR |
| 1728 | sp|Q8VDD8|WASH1\_MOUSE | MTPVKTQCSLAGQLYAVPLIQPDLRREEAIQQVADALQYLQNISGDIFSRISRRVELSRRQLQAISERVSLAQAKIEKIKGSKKAIKVFSSAKYPAPEHLQEYGSIFTGALDPGLQRRPRYRIQSKHRPLDERALQEKLKYFPVCVNTKSEPEDEAEEGLGGLPSNISSISSLLLFNTTENLYKKYVFLDPLAGAVTKTHTMLGTEEEKLFDAPLSISKREQLERQAPENYFYVPDLGQVPEIDVPSYLPDLPGVADDLMYSADLGPGIAPSAPGAIPELPAFHTEVAEPLQPELENEVLLAAPPPPPPPPPPPPPAPTALVSTPQPPMFPDMATAAGQVAREEDSSSSMAHTASVQGAPKEVVDPSSGRATLLESIRQAGGIGKAKLRSVKERKLEKKKQKEQEQVRATSQGGDLMSDLFNKLVMRRKGISGKGPSTGTSEGPGGAFSRMSDSIPPLPPPQQPAGDEDEEDWES |
| 1729 | sp|Q9H1J7|WNT5B\_HUMAN | MPSLLLLFTAALLSSWAQLLTDANSWWSLALNPVQRPEMFIIGAQPVCSQLPGLSPGQRKLCQLYQEHMAYIGEGAKTGIKECQHQFRQRRWNCSTADNASVFGRVMQIGSRETAFTHAVSAAGVVNAISRACREGELSTCGCSRTARPKDLPRDWLWGGCGDNVEYGYRFAKEFVDAREREKNFAKGSEEQGRVLMNLQNNEAGRRAVYKMADVACKCHGVSGSCSLKTCWLQLAEFRKVGDRLKEKYDSAAAMRVTRKGRLELVNSRFTQPTPEDLVYVDPSPDYCLRNESTGSLGTQGRLCNKTSEGMDGCELMCCGRGYNQFKSVQVERCHCKFHWCCFVRCKKCTEIVDQYICK |
| 1730 | sp|P9WF43|WHIB1\_MYCTU | MDWRHKAVCRDEDPELFFPVGNSGPALAQIADAKLVCNRCPVTTECLSWALNTGQDSGVWGGMSEDERRALKRRNARTKARTGV |
| 1731 | sp|P0A9M5|XGPT\_ECOLI | MSEKYIVTWDMLQIHARKLASRLMPSEQWKGIIAVSRGGLVPGALLARELGIRHVDTVCISSYDHDNQRELKVLKRAEGDGEGFIVIDDLVDTGGTAVAIREMYPKAHFVTIFAKPAGRPLVDDYVVDIPQDTWIEQPWDMGVVFVPPISGR |
| 1732 | sp|O14904|WNT9A\_HUMAN | MLDGSPLARWLAAAFGLTLLLAALRPSAAYFGLTGSEPLTILPLTLEPEAAAQAHYKACDRLKLERKQRRMCRRDPGVAETLVEAVSMSALECQFQFRFERWNCTLEGRYRASLLKRGFKETAFLYAISSAGLTHALAKACSAGRMERCTCDEAPDLENREAWQWGGCGDNLKYSSKFVKEFLGRRSSKDLRARVDFHNNLVGVKVIKAGVETTCKCHGVSGSCTVRTCWRQLAPFHEVGKHLKHKYETALKVGSTTNEAAGEAGAISPPRGRASGAGGSDPLPRTPELVHLDDSPSFCLAGRFSPGTAGRRCHREKNCESICCGRGHNTQSRVVTRPCQCQVRWCCYVECRQCTQREEVYTCKG |
| 1733 | sp|Q5T9L3|WLS\_HUMAN | MAGAIIENMSTKKLCIVGGILLVFQIIAFLVGGLIAPGPTTAVSYMSVKCVDARKNHHKTKWFVPWGPNHCDKIRDIEEAIPREIEANDIVFSVHIPLPHMEMSPWFQFMLFILQLDIAFKLNNQIRENAEVSMDVSLAYRDDAFAEWTEMAHERVPRKLKCTFTSPKTPEHEGRYYECDVLPFMEIGSVAHKFYLLNIRLPVNEKKKINVGIGEIKDIRLVGIHQNGGFTKVWFAMKTFLTPSIFIIMVWYWRRITMMSRPPVLLEKVIFALGISMTFINIPVEWFSIGFDWTWMLLFGDIRQGIFYAMLLSFWIIFCGEHMMDQHERNHIAGYWKQVGPIAVGSFCLFIFDMCERGVQLTNPFYSIWTTDIGTELAMAFIIVAGICLCLYFLFLCFMVFQVFRNISGKQSSLPAMSKVRRLHYEGLIFRFKFLMLITLACAAMTVIFFIVSQVTEGHWKWGGVTVQVNSAFFTGIYGMWNLYVFALMFLYAPSHKNYGEDQSNGDLGVHSGEELQLTTTITHVDGPTEIYKLTRKEAQE |
| 1734 | sp|O76024|WFS1\_HUMAN | MDSNTAPLGPSCPQPPPAPQPQARSRLNATASLEQERSERPRAPGPQAGPGPGVRDAAAPAEPQAQHTRSRERADGTGPTKGDMEIPFEEVLERAKAGDPKAQTEVGKHYLQLAGDTDEELNSCTAVDWLVLAAKQGRREAVKLLRRCLADRRGITSENEREVRQLSSETDLERAVRKAALVMYWKLNPKKKKQVAVAELLENVGQVNEHDGGAQPGPVPKSLQKQRRMLERLVSSESKNYIALDDFVEITKKYAKGVIPSSLFLQDDEDDDELAGKSPEDLPLRLKVVKYPLHAIMEIKEYLIDMASRAGMHWLSTIIPTHHINALIFFFIVSNLTIDFFAFFIPLVIFYLSFISMVICTLKVFQDSKAWENFRTLTDLLLRFEPNLDVEQAEVNFGWNHLEPYAHFLLSVFFVIFSFPIASKDCIPCSELAVITGFFTVTSYLSLSTHAEPYTRRALATEVTAGLLSLLPSMPLNWPYLKVLGQTFITVPVGHLVVLNVSVPCLLYVYLLYLFFRMAQLRNFKGTYCYLVPYLVCFMWCELSVVILLESTGLGLLRASIGYFLFLFALPILVAGLALVGVLQFARWFTSLELTKIAVTVAVCSVPLLLRWWTKASFSVVGMVKSLTRSSMVKLILVWLTAIVLFCWFYVYRSEGMKVYNSTLTWQQYGALCGPRAWKETNMARTQILCSHLEGHRVTWTGRFKYVRVTDIDNSAESAINMLPFFIGDWMRCLYGEAYPACSPGNTSTAEEELCRLKLLAKHPCHIKKFDRYKFEITVGMPFSSGADGSRSREEDDVTKDIVLRASSEFKSVLLSLRQGSLIEFSTILEGRLGSKWPVFELKAISCLNCMAQLSPTRRHVKIEHDWRSTVHGAVKFAFDFFFFPFLSAA |
| 1735 | sp|Q12416|WHI5\_YEAST | MSLRTPKRSRTSDEQEQEQEQEQVQNPDTHVNNEHQQRPGPTTLLSTPVRLKNGFGTPSPPSPPGITKSITKSRRRPSTTSLQGIFMSPVNKRRVGITAHGRVYDHNDDGHESESEDDENEEENENQKKYDGHVSMPLLPPTTPKSRRSEVFLSPSPRLRSPPTAARRSTGERPIREISHTLRTRLNYALVKLQNGWTDKTLPELETELAPAVQTPPRRYHNRFPDSADAGTSAHTAFLQALGGHPPREEATAVETLMLLSSPTKKQQHRPVPATSAGEPTDETEPESDTEVETS |
| 1736 | sp|P09615|WNTG\_DROME | MDISYIFVICLMALCSGGSSLSQVEGKQKSGRGRGSMWWGIAKVGEPNNITPIMYMDPAIHSTLRRKQRRLVRDNPGVLGALVKGANLAISECQHQFRNRRWNCSTRNFSRGKNLFGKIVDRGCRETSFIYAITSAAVTHSIARACSEGTIESCTCDYSHQSRSPQANHQAGSVAGVRDWEWGGCSDNIGFGFKFSREFVDTGERGRNLREKMNLHNNEAGRAHVQAEMRQECKCHGMSGSCTVKTCWMRLANFRVIGDNLKARFDGATRVQVTNSLRATNALAPVSPNAAGSNSVGSNGLIIPQSGLVYGEEEERMLNDHMPDILLENSHPISKIHHPNMPSPNSLPQAGQRGGRNGRRQGRKHNRYHFQLNPHNPEHKPPGSKDLVYLEPSPSFCEKNLRQGILGTHGRQCNETSLGVDGCGLMCCGRGYRRDEVVVVERCACTFHWCCEVKCKLCRTKKVIYTCL |
| 1737 | sp|Q07793|YD13B\_YEAST | MESQQLSQHSPISHGSACASVTSKEVHTNQDPLDVSASKTEECEKASTKANSQQTTTPASSAVPENPHHASPQPASVPPPQNGPYPQQCMMTQNQANPSGWSFYGHPSMIPYTPYQMSPMYFPPGPQSQFPQYPSSVGTPLSTPSPESGNTFTDSSSADSDMTSTKKYVRPPPMLTSPNDFPNWVKTYIKFLQNSNLGGIIPTVNGKPVRQITDDELTFLYNTFQIFAPSQFLPTWVKDILSVDYTDIMKILSKSIEKMQSDTQEANDIVTLANLQYNGSTPADAFETKVTNIIDRLNNNGIHINNKVACQLIMRGLSGEYKFLRYTRHRHLNMTVAELFLDIHAIYEEQQGSRNSKPNYRRNPSDEKNDSRSYTNTTKPKVIARNPQKTNNSKSKTARAHNVSTSNNSPSTDNDSISKSTTEPIQLNNKHDLHLGQKLTESTVNHTNHSDDELPGHLLLDSGASRTLIRSAHHIHSASSNPDINVVDAQKRNIPINAIGDLQFHFQDNTKTSIKVLHTPNIAYDLLSLNELAAVDITACFTKNVLERSDGTVLAPIVKYGDFYWVSKKYLLPSNISVPTINNVHTSESTRKYPYPFIHRMLAHANAQTIRYSLKNNTITYFNESDVDWSSAIDYQCPDCLIGKSTKHRHIKGSRLKYQNSYEPFQYLHTDIFGPVHNLPNSAPSYFISFTDETTKFRWVYPLHDRREDSILDVFTTILAFIKNQFQASVLVIQMDRGSEYTNRTLHKFLEKNGITPCYTTTADSRAHGVAERLNRTLLDDCRTQLQCSGLPNHLWFSAIEFSTIVRNSLASPKSKKSARQHAGLAGLDISTLLPFGQPVIVNDHNPNSKIHPRGIPGYALHPSRNSYGYIIYLPSLKKTVDTTNYVILQGKESRLDQFNYDALTFDEDLNRLTASYHSFIASNEIQESNDLNIESDHDFQSDIELHPEQPRNVLSKAVSPTDSTPPSTHTEDSKRVSKTNIRAPREVDPNISESNILPSKKRSSTPQISNIESTGSGGMHKLNVPLLAPMSQSNTHESSHASKSKDFRHSDSYSENETNHTNVPISSTGGTNNKTVPQISDQETEKRIIHRSPSIDASPPENNSSHNIVPIKTPTTVSEQNTEESIIADLPLPDLPPESPTEFPDPFKELPPINSRQTNSSLGGIGDSNAYTTINSKKRSLEDNETEIKVSRDTWNTKNMRSLEPPRSKKRIHLIAAVKAVKSIKPIRTTLRYDEAITYNKDIKEKEKYIEAYHKEVNQLLKMKTWDTDEYYDRKEIDPKRVINSMFIFNKKRDGTHKARFVARGDIQHPDTYDSGMQSNTVHHYALMTSLSLALDNNYYITQLDISSAYLYADIKEELYIRPPPHLGMNDKLIRLKKSLYGLKQSGANWYETIKSYLIQQCGMEEVRGWSCVFKNSQVTICLFVDDMVLFSKNLNSNKRIIEKLKMQYDTKIINLGESDEEIQYDILGLEIKYQRGKYMKLGMENSLTEKIPKLNVPLNPKGRKLSAPGQPGLYIDQDELEIDEDEYKEKVHEMQKLIGLASYVGYKFRFDLLYYINTLAQHILFPSRQVLDMTYELIQFMWDTRDKQLIWHKHKTSSDKNI |
| 1738 | sp|Q12472|YD21B\_YEAST | MESQQLSQNSPNLHGSAYASVTSKEVPSNQDPLAVSASNLPEFDRDSTKVNSQQETTPGTSAVPENHHHVSPQPASVPPPQNGQYQQHGMMTPNKAMASNWAHYQQPSMMTCSHYQTSPAYYQPDPHYPLPQYIPPLSTSSPDPIDLKNQHSEIPQAKTKVGNNVLPPHTLTSEENFSTWVKFYIRFLKNSNLGDIIPNDQGEIKRQMTYEEHAYIYNTFQAFAPFHLLPTWVKQILEINYADILTVLCKSVSKMQTNNQELKDWIALANLEYDGSTSADTFEITVSTIIQRLKENNINVSDRLACQLILKGLSGDFKYLRNQYRTKTNMKLSQLFAEIQLIYDENKIMNLNKPSQYKQHSEYKNVSRTSPNTTNTKVTTRNYQRTNSSKPRAAKAHNIATSSKFSRVNNDHINESTVSSQYLSDDNELSLGQQQKESKPTHTIDSNDELPDHLLIDSGASQTLVRSAHYLHHATPNSEINIVDAQKQDIPINAIGNLHFNFQNGTKTSIKALHTPNIAYDLLSLSELANQNITACFTRNTLERSDGTVLAPIVKHGDFYWLSKKYLIPSHISKLTINNVNKSKSVNKYPYPLIHRMLGHANFRSIQKSLKKNAVTYLKESDIEWSNASTYQCPDCLIGKSTKHRHVKGSRLKYQESYEPFQYLHTDIFGPVHHLPKSAPSYFISFTDEKTRFQWVYPLHDRREESILNVFTSILAFIKNQFNARVLVIQMDRGSEYTNKTLHKFFTNRGITACYTTTADSRAHGVAERLNRTLLNDCRTLLHCSGLPNHLWFSAVEFSTIIRNSLVSPKNDKSARQHAGLAGLDITTILPFGQPVIVNNHNPDSKIHPRGIPGYALHPSRNSYGYIIYLPSLKKTVDTTNYVILQDKQSKLDQFNYDTLTFDDDLNRLTAHNQSFIEKNETEQSYDQNTESDHDYQSEIEINSDPLVNDFSSQSINPLQLDKEPVQKVRAPKEVDADISEYNILPSTIRSRTPHIINKESTEMGGTIESDTTSPRHSSTFTARNQKRPGSPNDMIDLTSQDRVNYGLENIKTTRLGGTEEPYIQRNSDTNIKYRTTNSTPSIDDRSSNSESTTPIISIETKAACDNTPSIDTDPPEYRSSDHATPNIMPDKSSKNVTADSILDDLPLPDLTNKSPTDTSDVSKDIPHIHSRQTNSSLGGMDDSNVLTTTKSKKRSLEDNETEIEVSRDTWNNKNMRSLEPPRSKKRINLIAAIKGVKSIKPVRTTLRYDEAITYNEDNKEKDRYIEAYHKEINQLLRMNTWDTNKYYDRNDIDPKKVINSMFIFNKKRDGTHKARFVARGDIQHPDTYDSDMQSNTVHHYALMTSLSIALDNDYYITQLDISSAYLYADIKEELYIRPPPHLGLNDKLLRLRKSLYGLKQSGANWYETIKSYLINCCDMQEVRGWSCVFKNSQVTICLFVDDMILFSKDLNANKKIITTLKKQYDTKIINLGEGDNEIQYDILGLEIKYQRSKYMKLGMEKSLTEKLPKLNVPLNPKGKKLRAPGQPGHYIDQDELEIDEDEYKEKVHEMQKLIGLASYVGYKFRFDLLYYINTLAQHILFPSRQVLDMTYELIQFMWDTRDKQLIWHKNKPTKPDNKLVAISDASYGNQPYYKSQIGNIFLLNGKVIGGKSTKASLTCTSTTEAEIHAVSEAIPLLNNLSHLVQELNKKPIIKGLLTDSRSTISIIKSTNEEKFRNRFFGTKAMRLRDEVSGNNLYVYYIETKKNIADVMTKPLPIKTFKLLTNKWIH |
| 1739 | sp|P32329|YPS1\_YEAST | MKLKTVRSAVLSSLFASQVLGKIIPAANKRDDDSNSKFVKLPFHKLYGDSLENVGSDKKPEVRLLKRADGYEEIIITNQQSFYSVDLEVGTPPQNVTVLVDTGSSDLWIMGSDNPYCSSNSMGSSRRRVIDKRDDSSSGGSLINDINPFGWLTGTGSAIGPTATGLGGGSGTATQSVPASEATMDCQQYGTFSTSGSSTFRSNNTYFSISYGDGTFASGTFGTDVLDLSDLNVTGLSFAVANETNSTMGVLGIGLPELEVTYSGSTASHSGKAYKYDNFPIVLKNSGAIKSNTYSLYLNDSDAMHGTILFGAVDHSKYTGTLYTIPIVNTLSASGFSSPIQFDVTINGIGISDSGSSNKTLTTTKIPALLDSGTTLTYLPQTVVSMIATELGAQYSSRIGYYVLDCPSDDSMEIVFDFGGFHINAPLSSFILSTGTTCLLGIIPTSDDTGTILGDSFLTNAYVVYDLENLEISMAQARYNTTSENIEIITSSVPSAVKAPGYTNTWSTSASIVTGGNIFTVNSSQTASFSGNLTTSTASATSTSSKRNVGDHIVPSLPLTLISLLFAFI |
| 1740 | sp|P47098|YJ11B\_YEAST | MESQQLSQHSHISHGSACASVTSKEVHTNQDPLDVSASKTEECEKASTKANSQQTTTPASSAVPENPHHASPQPASVPPPQNGPYPQQCMMTQNQANPSGWSFYGHPSMIPYTPYQMSPMYFPPGPQSQFPQYPSSVGTPLSTPSPESGNTFTDSSSADSDMTSTKKYVRPPPMLTSPNDFPNWVKTYIKFLQNSNLGGIIPTVNGKPVRQITDDELTFLYNTFQIFAPSQFLPTWVKDILSVDYTDIMKILSKSIEKMQSDTQEANDIVTLANLQYNGSTPADAFETKVTNIIDRLNNNGIHINNKVACQLIMRGLSGEYKFLRYTRHRHLNMTVAELFLDIHAIYEEQQGSRNSKPNYRRNLSDEKNDSRSYTNTTKPKVIARNPQKTNNSKSKTARAHNVSTSNNSPSTDNDSISKSTTEPIQLNNKHDLHLGQELTESTVNHTNHSDDELPGHLLLDSGASRTLIRSAHHIHSASSNPDINVVDAQKRNIPINAIGDLQFHFQDNTKTSIKVLHTPNIAYDLLSLNELAAVDITACFTKNVLERSDGTVLAPIVQYGDFYWVSKRYLLPSNISVPTINNVHTSESTRKYPYPFIHRMLAHANAQTIRYSLKNNTITYFNESDVDWSSAIDYQCPDCLIGKSTKHRHIKGSRLKYQNSYEPFQYLHTDIFGPVHNLPKSAPSYFISFTDETTKFRWVYPLHDRREDSILDVFTTILAFIKNQFQASVLVIQMDRGSEYTNRTLHKFLEKNGITPCYTTTADSRAHGVAERLNRTLLDDCRTQLQCSGLPNHLWFSAIEFSTIVRNSLASPKSKKSARQHAGLAGLDISTLLPFGQPVIVNDHNPNSKIHPRGIPGYALHPSRNSYGYIIYLPSLKKTVDTTNYVILQGKESRLDQFNYDALTFDEDLNRLTASYQSFIASNEIQESNDLNIESDHDFQSDIELHPEQPRNVLSKAVSPTDSTPPSTHTEDSKRVSKTNIRAPREVDPNISESNILPSKKRSSTPQISNIESTGSGGMHKLNVPLLAPMSQSNTHESSHASKSKDFRHSDSYSENETNHTNVPISSTGGTNNKTVPQISDQETEKRIIHRSPSIDASPPENNSSHNIVPIKTPTTVSEQNTEESIIADLPLPDLPPESPTEFPDPFKELPPINSHQTNSSLGGIGDSNAYTTINSKKRSLEDNETEIKVSRDTWNTKNMRSLEPPRSKKRIHLIAAVKAVKSIKPIRTTLRYDEAITYNKDIKEKEKYIEAYHKEVNQLLKMKTWDTDEYYDRKEIDPKRVINSMFIFNKKRDGTHKARFVARGDIQHPDTYDTGMQSNTVHHYALMTSLSLALDNNYYITQLDISSAYLYADIKEELYIRPPPHLGMNDKLIRLKKSHYGLKQSGANWYETIKSYLIKQCGMEEVRGWSCVFKNSQVTICLFVDDMILFSKDLNANKKIITTLKKQYDTKIINLGESDNEIQYDILGLEIKYQRGKYMKLGMENSLTEKIPKLNVPLNPKGRKLSAPGQPGLYIDQDELEIDEDEYKEKVHEMQKLIGLASYVGYKFRFDLLYYINTLAQHILFPSRQVLDMTYELIQFMWDTRDKQLIWHKNKPTEPDNKLVAISDASYGNQPYYKSQIGNIFLLNGKVIGGKSTKASLTCTSTTEAEIHAISESVPLLNNLSYLIQELNKKPIIKGLLTDSRSTISIIKSTNEEKFRNRFFGTKAMRLRDEVSGNNLYVYYIETKKNIADVMTKPLPIKTFKLLTNKWIH |
| 1741 | sp|O43257|ZNHI1\_HUMAN | MVEKKTSVRSQDPGQRRVLDRAARQRRINRQLEALENDNFQDDPHAGLPQLGKRLPQFDDDADTGKKKKKTRGDHFKLRFRKNFQALLEEQNLSVAEGPNYLTACAGPPSRPQRPFCAVCGFPSPYTCVSCGARYCTVRCLGTHQETRCLKWTV |
| 1742 | sp|Q96IT1|ZN496\_HUMAN | MPTALCPRVLAPKESEEPRKMRSPPGENPSPQGELPSPESSRRLFRRFRYQEAAGPREALQRLWDLCGGWLRPERHTKEQILELLVLEQFLAILPREIQSWVRAQEPESGEQAVAAVEALEREPGRPWQWLKHCEDPVVIDDGDSPLDQEQEQLPVEPHSDLAKNQDAQPITLAQCLGLPSRPPSQLSGDPVLQDAFLLQEENVRDTQQVTTLQLPPSRVSPFKDMILCFSEEDWSLLDPAQTGFYGEFIIGEDYGVSMPPNDLAAQPDLSQGEENEPRVPELQDLQGKEVPQVSYLDSPSLQPFQVEERRKREELQVPEFQACPQTVVPQNTYPAGGNPRSLENSLDEEVTIEIVLSSSGDEDSQHGPYCTEELGSPTEKQRSLPASHRSSTEAGGEVQTSKKSYVCPNCGKIFRWRVNFIRHLRSRREQEKPHECSVCGELFSDSEDLDGHLESHEAQKPYRCGACGKSFRLNSHLLSHRRIHLQPDRLQPVEKREQAASEDADKGPKEPLENGKAKLSFQCCECGKAFQRHDHLARHRSHFHLKDKARPFQCRYCVKSFTQNYDLLRHERLHMKRRSKQALNSY |
| 1743 | sp|Q9NTW7|ZF64B\_HUMAN | MNASSEGESFAGSVQIPGGTTVLVELTPDIHICGICKQQFNNLDAFVAHKQSGCQLTGTSAAAPSTVQFVSEETVPATQTQTTTRTITSETQTITVSAPEFVFEHGYQTYLPTESNENQTATVISLPAKSRTKKPTTPPAQKRLNCCYPGCQFKTAYGMKDMERHLKIHTGDKPHKCEVCGKCFSRKDKLKTHMRCHTGVKPYKCKTCDYAAADSSSLNKHLRIHSDERPFKCQICPYASRNSSQLTVHLRSHTASELDDDVPKANCLSTESTDTPKAPVITLPSEAREQMATLGERTFNCCYPGCHFKTVHGMKDLDRHLRIHTGDKPHKCEFCDKCFSRKDNLTMHMRCHTSVKPHKCHLCDYAAVDSSSLKKHLRIHSDERPYKCQLCPYASRNSSQLTVHLRSHTGDTPFQCWLCSAKFKISSDLKRHMIVHSGEKPFKCEFCDVRCTMKANLKSHIRIKHTFKCLHCAFQGRDRADLLEHSRLHQADHPEKCPECSYSCSSAAALRVHSRVHCKDRPFKCDFCSFDTKRPSSLAKHVDKVHRDEAKTENRAPLGKEGLREGSSQHVAKIVTQRAFRCETCGASFVRDDSLRCHKKQHSDQSENKNSDLVTFPPESGASGQLSTLVSVGQLEAPLEPSQDL |
| 1744 | sp|Q86XF7|ZN575\_HUMAN | MLERGAESAAGATDPSPTGKEPVTKEAPHQGPPQKPSQSAPGPTASAGSPPRPRRRPPPQRPHRCPDCDKAFSYPSKLATHRLAHGGARPHPCPDCPKAFSYPSKLAAHRLTHSGARPHPCPHCPKSFGHRSKLAAHLWTHAPTRPYPCPDCPKSFCYPSKLAAHRHTHHATDARPYPCPHCPKAFSFPSKLAAHRLCHDPPTAPGSQATAWHRCSSCGQAFGQRRLLLLHQRSHHQVEHKGERD |
| 1745 | sp|Q91WU6|ZDHC7\_MOUSE | MQPSGHRLRDIEHHPLLTDNDNYDSASSSSSETDMADRVWFIRDGCGMVCAVMTWLLVVYADFVVTFVMLLPSKDFWYSVVNGVLFNCLAVLALSSHLRTMLTDPGAVPKGNATKEYMESLQLKPGEVIYKCPKCCCIKPERAHHCSICKRCIRKMDHHCPWVNNCVGEKNQRFFVLFTMYIALSSVHALILCGLQFISCVRGQWTECSDFSPPITVILLVFLCLEGLLFFTFTAVMFGTQIHSICNDETEIERLKSEKPTWERRLRWEGMKSVFGGPPSLLWMNPFVGFRLRRLQMRTRKGGPEFSV |
| 1746 | sp|F1QXD3|ZH15B\_DANRE | MALSRALRCCQRIFSWIPVIIISSVVLWSYYAYVFELCFVTLSNNLERVTYLLIFHVCFIMFCWTYWKAIFTPPSTPTKKFHLSYTDKERYEMEERPEVQKQILVDIAKKLPIFTRAQSGAIRFCDRCQVIKPDRCHHCSVCETCVLKMDHHCPWVNNCVGFSNYKFFLLFLSYSMIYCVFIASTVFQYFLKFWVGDLPNGPAKFHVLFLLFVALMFFVSLMFLFGYHCWLVAKNRSTLEAFSPPVFQNGPDRNGFNVGLSKNLRQVFGEHKKLWFIPVFTSQGDGHYFPLRTLRESENPLLANEEKWVEDGGSDEESADENGSSLLIRTES |
| 1747 | sp|Q8N720|ZN655\_HUMAN | MEEIPAQEAAGSPRVQFQSLETQSECLSPEPQFVQDTDMEQGLTGDGETREENKLLIPKQKISEEVHSYKVRVGRLKHDITQVPETREVYKSEDRLERLQEILRKFLYLEREFRQITISKETFTSEKNNECHEPEKSFSLDSTIDADQRVLRIQNTDDNDKYDMSFNQNSASGKHEHLNLTEDFQSSECKESLMDLSHLNKWESIPNTEKSYKCDVCGKIFHQSSALTRHQRIHTREKPYKCKECEKSFSQSSSLSRHKRIHTREKPYKCEASDKSCEASDKSCSPSSGIIQHKKIHTRAKSYKCSSCERVFSRSVHLTQHQKIHKEMPCKCTVCGSDFCHTSYLLEHQRVHHEEKAYEYDEYGLAYIKQQGIHFREKPYTCSECGKDFRLNSHLIQHQRIHTGEKAHECNECGKAFSQTSCLIQHHKMHRKEKSYECNEYEGSFSHSSDLILQQEVLTRQKAFDCDVWEKNSSQRAHLVQHQSIHTKENS |
| 1748 | sp|O55005|ROBO1\_RAT | MKWKHLPLLVMISLLTLSKKHLLLAQLIPDPEDLERGNDNGTPAPTSDNDDNSLGYTGSRLRQEDFPPRIVEHPSDLIVSKGEPATLNCKAEGRPTPTIEWYKGGERVETDKDDPRSHRMLLPSGSLFFLRIVHGRKSRPDEGVYICVARNYLGEAVSHNASLEVAILRDDFRQNPSDVMVAVGEPAVMECQPPRGHPEPTISWKKDGSPLDDKDERITIRGGKLMITYTRKSDAGKYVCVGTNMVGERESKVADVTVLERPSFVKRPSNLAVTVDDSAEFKCEARGDPVPTFGWRKDDGELPKSRYEIRDDHTLKIRKVTAGDMGSYTCVAENMVGKAEASATLTVQEPPHFVVKPRDQVVALGRTVTFQCEATGNPQPAIFWRREGSQNLLFSYQPPQSSSRFSVSQTGDLTVTNVQRSDVGYYICQTLNVAGSIITKAYLEVTDVIADRPPPVIRQGPVNQTVAVDGTLTLSCVATGSPVPTILWRKDGVLVSTQDSRIKQLESGVLQIRYAKLGDTGRYTCTASTPSGEATWSAYIEVQEFGVPVQPPRPTDPNLIPSAPSKPEVTDVSKNTVTLLWQPNLNSGATPTSYIIEAFSHASGSSWQTVAENVKTETFAIKGLKPNAIYLFLVRAANAYGISDPSQISDPVKTQDVPPTTQGVDHKQVQRELGNVVLHLHNPTILSSSSVEVHWTVDQQSQYIQGYKILYRPSGASHGESEWLVFEVRTPTKNSVVIPDLRKGVNYEIKARPFFNEFQGADSEIKFAKTLEERPSAPPRSVTVSKNDGNGTAILVTWQPPPEDTQNGMVQEYKVWCLGNETRYHINKTVDGSTFSVVIPFLVPGIRYSVEVAASTGAGPGVKSEPQFIQLDSHGNPVSPEDQVSLAQQISDVVKQPAFIAGIGAACWIILMVFSIWLYRHRKKRNGLSSTYAGIRKVPSFTFTPTVTYQRGGEAVSSGGRPGLLNISEPATQPWLADTWPNTGNSHNDCSINCCTASNGNSDSNLTTYSRPADCIANYNNQLDNKQTNLMLPESTVYGDVDLSNKINEMKTFNSPNLKDGRFVNPSGQPTPYATTQLIQANLINNMNNGGGDSSEKHWKPPGQQKQEVAPIQYNIMEQNKLNKDYRANDTILPTIPYNHSYDQNTGGSYNSSDRGSSTSGSQGHKKGARTPKAPKQGGMNWADLLPPPPAHPPPHSNSEEYSMSVDESYDQEMPCPVPPARMYLQQDELEEEEAERGPTPPVRGAASSPAAVSYSHQSTATLTPSPQEELQPMLQDCPEDLGHMPHPPDRRRQPVSPPPPPRPISPPHTYGYISGPLVSDMDTDAPEEEEDEADMEVAKMQTRRLLLRGLEQTPASSVGDLESSVTGSMINGWGSASEEDNISSGRSSVSSSDGSFFTDADFAQAVAAAAEYAGLKVARRQMQDAAGRRHFHASQCPRPTSPVSTDSNMSAAVIQKARPTKKQKHQPGHLRREAYTDDLPPPPVPPPAIKSPSVQSKAQLEARPIMGPKLASIEARADRSSDRKGGSYKGREALDGRQVTDLRTSPGDPREAQEQPNEGKARGTKTAKRDLPPAKTHLIPEDILPYCRPTFPTSNNPRDPSSSSSMSSRGSGSRQREQANVGRRNMAEMQVLGGFERGDENNEELEETES |
| 1749 | sp|Q8N122|RPTOR\_HUMAN | MESEMLQSPLLGLGEEDEADLTDWNLPLAFMKKRHCEKIEGSKSLAQSWRMKDRMKTVSVALVLCLNVGVDPPDVVKTTPCARLECWIDPLSMGPQKALETIGANLQKQYENWQPRARYKQSLDPTVDEVKKLCTSLRRNAKEERVLFHYNGHGVPRPTVNGEVWVFNKNYTQYIPLSIYDLQTWMGSPSIFVYDCSNAGLIVKSFKQFALQREQELEVAAINPNHPLAQMPLPPSMKNCIQLAACEATELLPMIPDLPADLFTSCLTTPIKIALRWFCMQKCVSLVPGVTLDLIEKIPGRLNDRRTPLGELNWIFTAITDTIAWNVLPRDLFQKLFRQDLLVASLFRNFLLAERIMRSYNCTPVSSPRLPPTYMHAMWQAWDLAVDICLSQLPTIIEEGTAFRHSPFFAEQLTAFQVWLTMGVENRNPPEQLPIVLQVLLSQVHRLRALDLLGRFLDLGPWAVSLALSVGIFPYVLKLLQSSARELRPLLVFIWAKILAVDSSCQADLVKDNGHKYFLSVLADPYMPAEHRTMTAFILAVIVNSYHTGQEACLQGNLIAICLEQLNDPHPLLRQWVAICLGRIWQNFDSARWCGVRDSAHEKLYSLLSDPIPEVRCAAVFALGTFVGNSAERTDHSTTIDHNVAMMLAQLVSDGSPMVRKELVVALSHLVVQYESNFCTVALQFIEEEKNYALPSPATTEGGSLTPVRDSPCTPRLRSVSSYGNIRAVATARSLNKSLQNLSLTEESGGAVAFSPGNLSTSSSASSTLGSPENEEHILSFETIDKMRRASSYSSLNSLIGVSFNSVYTQIWRVLLHLAADPYPEVSDVAMKVLNSIAYKATVNARPQRVLDTSSLTQSAPASPTNKGVHIHQAGGSPPASSTSSSSLTNDVAKQPVSRDLPSGRPGTTGPAGAQYTPHSHQFPRTRKMFDKGPEQTADDADDAAGHKSFISATVQTGFCDWSARYFAQPVMKIPEEHDLESQIRKEREWRFLRNSRVRRQAQQVIQKGITRLDDQIFLNRNPGVPSVVKFHPFTPCIAVADKDSICFWDWEKGEKLDYFHNGNPRYTRVTAMEYLNGQDCSLLLTATDDGAIRVWKNFADLEKNPEMVTAWQGLSDMLPTTRGAGMVVDWEQETGLLMSSGDVRIVRIWDTDREMKVQDIPTGADSCVTSLSCDSHRSLIVAGLGDGSIRVYDRRMALSECRVMTYREHTAWVVKASLQKRPDGHIVSVSVNGDVRIFDPRMPESVNVLQIVKGLTALDIHPQADLIACGSVNQFTAIYNSSGELINNIKYYDGFMGQRVGAISCLAFHPHWPHLAVGSNDYYISVYSVEKRVR |
| 1750 | sp|Q12149|RRP6\_YEAST | MTSENPDVLLSRVINVVRAASSLASQDVDFYKNLDRGFSKDLKSKADKLADMANEIILSIDEHHESFELKEEDISDLWNNFGNIMDNLLEMSDHSLDKLNCAINSKSRGSDLQYLGEFSGKNFSPTKRVEKPQLKFKSPIDNSESHPFIPLLKEKPNALKPLSESLRLVDDDENNPSHYPHPYEYEIDHQEYSPEILQIREEIPSKSWDDSVPIWVDTSTELESMLEDLKNTKEIAVDLEHHDYRSYYGIVCLMQISTRERDYLVDTLKLRENLHILNEVFTNPSIVKVFHGAFMDIIWLQRDLGLYVVGLFDTYHASKAIGLPRHSLAYLLENFANFKTSKKYQLADWRIRPLSKPMTAYARADTHFLLNIYDQLRNKLIESNKLAGVLYESRNVAKRRFEYSKYRPLTPSSEVYSPIEKESPWKILMYQYNIPPEREVLVRELYQWRDLIARRDDESPRFVMPNQLLAALVAYTPTDVIGVVSLTNGVTEHVRQNAKLLANLIRDALRNIKNTNEEATPIPSSETKADGILLETISVPQIRDVMERFSVLCNSNISKSRAKPVTNSSILLGKILPREEHDIAYSKDGLPNKVKTEDIRIRAQNFKSALANLEDIIFEIEKPLVVPVKLEEIKTVDPASAPNHSPEIDNLDDLVVLKKKNIQKKQPAKEKGVTEKDAVDYSKIPNILSNKPGQNNRQQKKRRFDPSSSDSNGPRAAKKRRPAAKGKNLSFKR |
| 1751 | sp|P06992|RSMA\_ECOLI | MNNRVHQGHLARKRFGQNFLNDQFVIDSIVSAINPQKGQAMVEIGPGLAALTEPVGERLDQLTVIELDRDLAARLQTHPFLGPKLTIYQQDAMTFNFGELAEKMGQPLRVFGNLPYNISTPLMFHLFSYTDAIADMHFMLQKEVVNRLVAGPNSKAYGRLSVMAQYYCNVIPVLEVPPSAFTPPPKVDSAVVRLVPHATMPHPVKDVRVLSRITTEAFNQRRKTIRNSLGNLFSVEVLTGMGIDPAMRAENISVAQYCQMANYLAENAPLQES |
| 1752 | sp|Q05856|RSMB\_DROME | MTIGKNNKMIQHLNYRVRIVLQDSRTFIGTFKAFDKHMNLILGDCEEFRKIRSKNSKVPEREEKRVLGFVLLRGENIVSLTVEGPPPPEEGLPRVPIPGAAPGPGIGRVAGRGMPINLSAVPAGLQGPVRGVGGPAQQHMAPMGRGVPRAPMMGAPPPGMIPGGMPSMPGNMGRGAPPPMRGPPPSMIRGAPPPGRGGY |
| 1753 | sp|P61619|S61A1\_HUMAN | MAIKFLEVIKPFCVILPEIQKPERKIQFKEKVLWTAITLFIFLVCCQIPLFGIMSSDSADPFYWMRVILASNRGTLMELGISPIVTSGLIMQLLAGAKIIEVGDTPKDRALFNGAQKLFGMIITIGQSIVYVMTGMYGDPSEMGAGICLLITIQLFVAGLIVLLLDELLQKGYGLGSGISLFIATNICETIVWKAFSPTTVNTGRGMEFEGAIIALFHLLATRTDKVRALREAFYRQNLPNLMNLIATIFVFAVVIYFQGFRVDLPIKSARYRGQYNTYPIKLFYTSNIPIILQSALVSNLYVISQMLSARFSGNLLVSLLGTWSDTSSGGPARAYPVGGLCYYLSPPESFGSVLEDPVHAVVYIVFMLGSCAFFSKTWIEVSGSSAKDVAKQLKEQQMVMRGHRETSMVHELNRYIPTAAAFGGLCIGALSVLADFLGAIGSGTGILLAVTIIYQYFEIFVKEQSEVGSMGALLF |
| 1754 | sp|P58743|S26A5\_HUMAN | MDHAEENEILAATQRYYVERPIFSHPVLQERLHTKDKVPDSIADKLKQAFTCTPKKIRNIIYMFLPITKWLPAYKFKEYVLGDLVSGISTGVLQLPQGLAFAMLAAVPPIFGLYSSFYPVIMYCFLGTSRHISIGPFAVISLMIGGVAVRLVPDDIVIPGGVNATNGTEARDALRVKVAMSVTLLSGIIQFCLGVCRFGFVAIYLTEPLVRGFTTAAAVHVFTSMLKYLFGVKTKRYSGIFSVVYSTVAVLQNVKNLNVCSLGVGLMVFGLLLGGKEFNERFKEKLPAPIPLEFFAVVMGTGISAGFNLKESYNVDVVGTLPLGLLPPANPDTSLFHLVYVDAIAIAIVGFSVTISMAKTLANKHGYQVDGNQELIALGLCNSIGSLFQTFSISCSLSRSLVQEGTGGKTQLAGCLASLMILLVILATGFLFESLPQAVLSAIVIVNLKGMFMQFSDLPFFWRTSKIELTIWLTTFVSSLFLGLDYGLITAVIIALLTVIYRTQSPSYKVLGKLPETDVYIDIDAYEEVKEIPGIKIFQINAPIYYANSDLYSNALKRKTGVNPAVIMGARRKAMRKYAKEVGNANMANATVVKADAEVDGEDATKPEEEDGEVKYPPIVIKSTFPEEMQRFMPPGDNVHTVILDFTQVNFIDSVGVKTLAGIVKEYGDVGIYVYLAGCSAQVVNDLTRNRFFENPALWELLFHSIHDAVLGSQLREALAEQEASAPPSQEDLEPNATPATPEA |
| 1755 | sp|Q8BTY2|S4A7\_MOUSE | MEADGAGEQMRPLLTRGPDEEAVVDLGKTSSTVNTKFEKEELESHRAVYVGVHVPFSKESRRRHKHRGHKHHHRRRKDKDSDKEDGRESPSYDTPSQRVQFILGTEDDDEEHIPHDLFTEMDELCYRDGEEYEWKETARWLKFEEDVEDGGDRWSKPYVATLSLHSLFELRSCILNGTVMLDMRASTLDEIADMVLDNMIASGQLDDSIRENVREALLKRHHHQNEKRFTSRIPLVRSFADIGILASPQSAPGNLDNSKSGEMKGNGSGGSRENSTVDFSKVDMNFMRKIPTGAEASNVLVGEVDFLERPIIAFVRLAPAVLLSGLTEVPVPTRFLFLLLGPAGKAPQYHEIGRSIATLMTDEIFHDVAYKAKDRNDLLSGIDEFLDQVTVLPPGEWDPSIRIEPPKSVPSQEKRKIPVFPNGSAAMSVGPPKEDDHHAGPELQRTGRLFGGLILDIKRKAPFFLSDFKDALSLQCLASILFLYCACMSPVITFGGLLGEATEGRISAIESLFGASLTGIAYSLFAGQPLTILGSTGPVLVFEKILFKFCRDYHLSYLSLRTSIGLWTSFLCIVLVATDASSLVCYITRFTEEAFAALICIIFIYEALEKLFHLGEIYAFNMHNNLDELTSYTCVCAEPSNPSNETLELWKRKNITAYSVSWGNLTVSECKTFHGMFVGSACGPHGPYVPDVLFWCVVLFFTTFFLSSFLKQFKTKGYFPTKVRSTISDFAVFLTIVIMVAIDYLVGIPSPKLHVPEKFEPTDPSRGWIISPLGDNPWWTLLIAAVPALLCTILIFMDQQITAVIINRKEHKLKFIPMPVLYGVFLYMGVSSLKGIQFFDRIKLFGMPAKHQPDLIYLRYVPLWKVHVFTVVQLTCLVLLWVIKASAAAVVFPMMVLALVFVRKLMDLCFTKRELSWLDDLMPESKKKKEDDKKKKEKEEAERMLQDDEDTVHLPFERGSLLQIPVKTLKYSIDPSVVNISDEMAKTAQWKALSMNTENAKVTRPNTSPEKPVSVTINFEDEPSKKYMDAETSL |
| 1756 | sp|Q9JI66|S4A4\_RAT | MEDEAVLDRGASFLKHVCDEEEVEGHHTIYIGVHVPKSYRRRRRHKRKAGHKEKKEKERISENYSDKSDVENADESSSSILKPLISPAAERIRFILGEEDDSPAPPQLFTELDELLAVDGQEMEWKETARWIKFEEKVEQGGERWSKPHVATLSLHSLFELRTCMEKGSIMLDREASSLPQLVEMIADHQIETGLLKPDLKDKVTYTLLRKHRHQTKKSNLRSLADIGKTVSSASRMFSNPDNGSPAMTHRNLTSSSLNDISDKPEKDQLKNKFMKKLPRDAEASNVLVGEVDFLDTPFIAFVRLQQAVMLGALTEVPVPTRFLFILLGPKGKAKSYHEIGRAIATLMSDEVFHDIAYKAKDRHDLIAGIDEFLDEVIVLPPGEWDPAIRIEPPKSLPSSDKRKNMYSGGENVQMNGDTPHDGGHGGGGHGDCEELQRTGRFCGGLIKDIKRKAPFFASDFYDALNIQALSAILFIYLATVTNAITFGGLLGDATDNMQGVLESFLGTAVSGAIFCLFAGQPLTILSSTGPVLVFERLLFNFSKDHSFDYLEFRLWIGLWSAFMCLILVATDASFLVQYFTRFTEEGFSSLISFIFIYDAFKKMIKLADYYPINSDFRVGYNTHFSCACLPPDPVNLSVSNDTTLAPEDLPTVSSTDMYHNATFDWAYLSKKECVKFGGKLVGNNCDFVPDITLMSFILFLGTYTSSMAMKKFKTSRYFPTTARKLISDFAIILSILIFCVIDALVGVDTPKLIVPSEFKPTSPHRGWFVPPFGGNPWWVCLAAAIPALLVTILIFMDQQITAVIVNRKEHKLKKGAGYHLDLFWVAILMVVCSFMALPWYVAATVISIAHIDSLKMETETSAPGEQPKFLGVREQRVTGTLVFILTGLSVFMAPILKFIPMPVLYGVFLYMGVASLNGVQFMDRLKLLLMPLKHQPDFIYLRHVPLRRVHLFTSLQVLCLALLWILKSTVAAIIFPVMILALVAVRKGMDYLFSQHDLSFLDDVIPEKDKKKKEDEKKKKKKKGSLDSDNDDSDCPYSEKVPSIKIPMDITEQQPFLSDNKPLDRERSSTFLERHTSC |
| 1757 | sp|Q62773|S28A2\_RAT | MAKSEGRKSASQDTSENGMENPGLELMEVGNLEQGKTLEEVTQGHSLKDGLGHSSLWRRILQPFTKARSFYQRHAGLFKKILLGLLCLAYAAYLLAACILNFRRALALFVITCLVIFILACHFLKKFFAKKSIRCLKPLKNTRLRLWLKRVFMGAAVVGLILWLALDTAQRPEQLISFAGICMFILILFACSKHHSAVSWRTVFWGLGLQFVFGILVIRTEPGFNAFQWLGDQIQIFLAYTVEGSSFVFGDTLVQSVFAFQSLPIIIFFGCVMSILYYLGLVQWVIQKIAWFLQITMGTTAAETLAVAGNIFVGMTEAPLLIRPYLADMTLSEIHAVMTGGFATIAGTVLGAFISFGIDASSLISASVMAAPCALALSKLVYPEVEESKFKSKEGVKLPRGEERNILEAASNGATDAIALVANVAANLIAFLAVLAFINSTLSWLGEMVDIHGLTFQVICSYVLRPMVFMMGVQWADCPLVAEIVGVKFFINEFVAYQQLSQYKNKRLSGVEEWINGEKQWISVKAEIIATFSLCGFANLTSIGITLGGLTSMVPQRKSDLCKLVVRALFTGACVSFISACMAGILYVPRGAETDCVSFLNTNFTNRTYETYVCCRELFQSTLLNGTNMPSFSGPWQDKESSLRNLAKCCDLYTSTVCA |
| 1758 | sp|Q96QD8|S38A2\_HUMAN | MKKAEMGRFSISPDEDSSSYSSNSDFNYSYPTKQAALKSHYADVDPENQNFLLESNLGKKKYETEFHPGTTSFGMSVFNLSNAIVGSGILGLSYAMANTGIALFIILLTFVSIFSLYSVHLLLKTANEGGSLLYEQLGYKAFGLVGKLAASGSITMQNIGAMSSYLFIVKYELPLVIQALTNIEDKTGLWYLNGNYLVLLVSLVVILPLSLFRNLGYLGYTSGLSLLCMVFFLIVVICKKFQVPCPVEAALIINETINTTLTQPTALVPALSHNVTENDSCRPHYFIFNSQTVYAVPILIFSFVCHPAVLPIYEELKDRSRRRMMNVSKISFFAMFLMYLLAALFGYLTFYEHVESELLHTYSSILGTDILLLIVRLAVLMAVTLTVPVVIFPIRSSVTHLLCASKDFSWWRHSLITVSILAFTNLLVIFVPTIRDIFGFIGASAASMLIFILPSAFYIKLVKKEPMKSVQKIGALFFLLSGVLVMTGSMALIVLDWVHNAPGGGH |
| 1759 | sp|Q7Z2H8|S36A1\_HUMAN | MSTQRLRNEDYHDYSSTDVSPEESPSEGLNNLSSPGSYQRFGQSNSTTWFQTLIHLLKGNIGTGLLGLPLAVKNAGIVMGPISLLIIGIVAVHCMGILVKCAHHFCRRLNKSFVDYGDTVMYGLESSPCSWLRNHAHWGRRVVDFFLIVTQLGFCCVYFVFLADNFKQVIEAANGTTNNCHNNETVILTPTMDSRLYMLSFLPFLVLLVFIRNLRALSIFSLLANITMLVSLVMIYQFIVQRIPDPSHLPLVAPWKTYPLFFGTAIFSFEGIGMVLPLENKMKDPRKFPLILYLGMVIVTILYISLGCLGYLQFGANIQGSITLNLPNCWLYQSVKLLYSIGIFFTYALQFYVPAEIIIPFFVSRAPEHCELVVDLFVRTVLVCLTCILAILIPRLDLVISLVGSVSSSALALIIPPLLEVTTFYSEGMSPLTIFKDALISILGFVGFVVGTYEALYELIQPSNAPIFINSTCAFI |
| 1760 | sp|B3DJT0|SART3\_DANRE | MAATGNEEQTLLPDIEEEAEGMEREMESEDDEEEGMGVEHSEEEDEEDTSEDERENEAEIQRLEEQLSINAFDYNCHVDLIKLLRQEGKLHRLRKARQKMSELFPLTEEIWLDWLKDEIRITEDESDREKVYELFERAIKDYVCPEIWLEYVQYSIGGMGAQGGIERVRSIFERALTAVGLHMTKGASIWEAYREFEIVILSTVQPPPGTVPSQEQQELLSAQLERIHTLFRRQLAVPLMDMEGTYAEYSDWADDGVPETVTHQYRRALQQMEKGKPYEEALLVSEPPKLAEYQSYIDFEIKEGDPARVQIIFERALAENCLVPDLWIKYTTYLDRQLKIKDLVLSAHERAVRNCPWTMGLWKSYLLALERHGADHQTVKDVFEKALNAGFIQATDYVEIWQSYLDYLRRRVDFSKEWSRELDELRAAFSRSLEYLKQDVEERFSESGDLSCTLMQIWARIEALHCKNMQKARELWDSIMTKGNAKYANMWLEYYNLERSYGDAAHCRKALHRAVQCTSDYPEHVCDVLLNFERVEGSLEDWDAAVQKTETKLNRVCEQRARVAEKEALHARQEEEKAEQRRKVKADKKAQKKGQKANRTGDKRKAEDDDEEEWGEEAELPSKRLRGEDDFDSTVTEELMETESGLFGRRAPPARKTEPPGFRKNQQGAPEPQRQPHDMPKEQRKDENCVFVSNLTFNMEDPEGKLRTLFQGCGTIQQVRPVFTAKGTFRGYCYVQFEDRLAVPEALKMDRQEVDGRPMYVSPCVDKNKNPDFKVFKYKTSMEKHKIFISGLPYSATKETLEDLCKEHGTIRAIRIVTNRSGKSKGLAYVEFEDEAQASQAVLKMDGTMLENFTLSVAISNPPGRRMKDEAAPSRFLGAAMPRQLQGARGKGRTQISLLPRSLYRQSTPDAKAENGTISAPHATVTDGETSLDTQTKSLSNEDFARMLLKK |
| 1761 | sp|Q9BZV2|S19A3\_HUMAN | MDCYRTSLSSSWIYPTVILCLFGFFSMMRPSEPFLIPYLSGPDKNLTSAEITNEIFPVWTYSYLVLLLPVFVLTDYVRYKPVIILQGISFIITWLLLLFGQGVKTMQVVEFFYGMVTAAEVAYYAYIYSVVSPEHYQRVSGYCRSVTLAAYTAGSVLAQLLVSLANMSYFYLNVISLASVSVAFLFSLFLPMPKKSMFFHAKPSREIKKSSSVNPVLEETHEGEAPGCEEQKPTSEILSTSGKLNKGQLNSLKPSNVTVDVFVQWFQDLKECYSSKRLFYWSLWWAFATAGFNQVLNYVQILWDYKAPSQDSSIYNGAVEAIATFGGAVAAFAVGYVKVNWDLLGELALVVFSVVNAGSLFLMHYTANIWACYAGYLIFKSSYMLLITIAVFQIAVNLNVERYALVFGINTFIALVIQTIMTVIVVDQRGLNLPVSIQFLVYGSYFAVIAGIFLMRSMYITYSTKSQKDVQSPAPSENPDVSHPEEESNIIMSTKL |
| 1762 | sp|Q071N0|SALR\_PAPSO | MPETCPNTVTKRRCAVVTGGNKGIGFEICKQLSSNGIMVVLTCRDVTKGHEAVEKLKNSNHENVVFHQLDVTDPIATMSSLADFIKTHFGKLDILVNNAGVAGFSVDADRFKAMISDIGEDSEELVKIYEKPEAQELMSETYELAEECLKINYNGVKSVTEVLIPLLQLSDSPRIVNVSSSTGSLKYVSNETALEILGDGDALTEERIDMVVNMLLKDFKENLIETNGWPSFGAAYTTSKACLNAYTRVLANKIPKFQVNCVCPGLVKTEMNYGIGNYTAEEGAEHVVRIALFPDDGPSGFFYDCSELSAF |
| 1763 | sp|Q8ZPX9|S3AD\_SALTY | MTLSIPPSIQCQTEAACRLITRVTGDTLRAIHLYGSAVAGGLKPNSDIDLLVTICQPLTEAQRATLMQELLALSSPPGASAEKRALEVTVVLYSQLVPWCFPPSREMQFGEWLREDICQGIYEPAQQDWDMVLLITQILETSIPLKGERAERLFTPAPAAQLLKALRYPLDLWQSTADVQGDEYHIVLTLARIWYTLSTGRFTSKDAAADWLLPQLPEDYAATLRAAQREYLGLEQQDWHILLPAVVRFVDFAKAHIPTQFT |
| 1764 | sp|P40380|RUM1\_SCHPO | MEPSTPPMRGLCTPSTPESPGSFKGVIDASLEGNSSIMIDEIPESDLPAPQVSTFPPTPAKTPKKQLLPNLMLQDRSNSLERCMEEDREHNPFLSSSDNQLLSRKKRKPTPPPSDGLYYVFRGKRIKKSFRPGTDLSTFKPKLLFADSAPSSSSDNPTSSVDLNDYSQIGILPPNLNSIGNKMFSLKSRVPSSSSGSFVAPPPQMRLPAYSSPQKSRSNTKDENRHNLLR |
| 1765 | sp|Q03940|RUVB1\_YEAST | MVAISEVKENPGVNSSNSGAVTRTAAHTHIKGLGLDESGVAKRVEGGFVGQIEAREACGVIVDLIKAKKMSGRAILLAGGPSTGKTALALAISQELGPKVPFCPLVGSELYSVEVKKTETLMENFRRAIGLRIKETKEVYEGEVTELTPEDAENPLGGYGKTISHVIVGLKSAKGTKTLRLDPTIYESIQREKVSIGDVIYIEANTGAVKRVGRSDAYATEFDLETEEYVPLPKGEVHKKKEIVQDVTLHDLDVANARPQGGQDVISMMGQLLKPKKTEITEKLRQEVNKVVAKYIDQGVAELIPGVLFIDEVNMLDIEIFTYLNKALESNIAPVVVLASNRGMTTVRGTEDVISPHGVPPDLIDRLLIVRTLPYDKDEIRTIIERRATVERLQVESSALDLLATMGTETSLRYALQLLAPCGILAQTSNRKEIVVNDVNEAKLLFLDAKRSTKILETSANYL |
| 1766 | sp|P05109|S10A8\_HUMAN | MLTELEKALNSIIDVYHKYSLIKGNFHAVYRDDLKKLLETECPQYIRKKGADVWFKELDINTDGAVNFQEFLILVIKMGVAAHKKSHEESHKE |
| 1767 | sp|Q9UPN6|SCAF8\_HUMAN | MEAVKTFNSELYSLNDYKPPISKAKMTQITKAAIKAIKFYKHVVQSVEKFIQKCKPEYKVPGLYVIDSIVRQSRHQFGQEKDVFAPRFSNNIISTFQNLYRCPGDDKSKIVRVLNLWQKNNVFKSEIIQPLLDMAAGIPPPVVTPVLASTTTAMSNTPGTPVTPVTPANVVQGLPDPWVSQITNTDTLAAVAQILQSPQGQQLQQLIQTLQIQQQKPQPSILQALDAGLVVQLQALTAQLTAAAAAANTLTPLEQGVSFNKKLMDRFDFGEDSEHSEEPKKEIPASQLSHVSESVNNSIFHQIAEQLQQQNLEHLRQQLLEQQQPQKATPQDSQEGTFGSEHSASPSQGSSQQHFLEPEVNLDDSIDIQQQDMDIDEGQDGVEEEVFEQEAKKVAVRSRSRTHSRSRSRSPRKRRSRSRSGSRKRKHRKRSRSRSRERKRKSSRSYSSERRAREREKERQKKGLPPIRSKTLSVCSTTLWVGQVDKKATQQDLTNLFEEFGQIESINMIPPRGCAYVCMVHRQDAFRALQKLSSGSYKIGSKVIKIAWALNKGVKTEYKQFWDVDLGVTYIPWEKVKVDDLEGFAEGGMIDQETVNTEWETVKSSEPVKETVQTTQSPTPVEKETVVTTQAEVFPPPVAMLQIPVAPAVPTVSLVPPAFPVSMPVPPPGFSPIPPPPFLRASFNPSQPPPGFMPPPVPPPVVPPPTIPPVVPTSLVQPSLSMTPETVKDVGFGSLVIPGGSVASNLATSALPAGNVFNAPTKQAEPEEKVPHLIDHQISSGENTRSVIPNDISSNAAILGGQPPNVTSNSGILGVQRPNVSSNSEILGVRPSNVSSSSGIIAAQPPNILNNSGILGIQPPSVSNSSGLLGVLPPNIPNNSGLVGVQPPNVPNTPGLLGTQPPAGPQNLPPLSIPNQRMPTMPMLDIRPGLIPQAPGPRFPLIQPGIPPQRGIPPPSVLDSALHPPPRGPFPPGDIFSQPERPFLAPGRQSVDNVTNPEKRIPLGNDNIQQEGDRDYRFPPIETRESISRPPPVDVRDVVGRPIDPREGPGRPPLDGRDHFGRPPVDIRENLVRPGIDHLGRRDHFGFNPEKPWGHRGDFDEREHRVLPVYGGPKGLHEERGRFRSGNYRFDPRSGPWNRGFGQEVHRDFDDRRRPWERQRDRDDRDFDFCREMNGNRLGRDRIQNTWVPPPHARVFDYFEGATSQRKGDNVPQVNGENTERHAQPPPIPVQNDPELYEKLTSSNEINKEKSDTVADIESEPVVESTETEGT |
| 1768 | sp|O35180|SH3G3\_RAT | MSVAGLKKQFHKASQLFSEKISGAEGTKLDEEFLDMEKKIDITSKAVAEILSKATEYLQPNPAYRAKLGMLNTMSKLRGQVKATGYPQTEGLLGDCMLKYGRELGEDSAFGNSLVEVGEALKLMAEVKDSLDINVKQTFIDPLQLLQDKDLKEIGHHLRKLEGRRLDYDYKKKRVGKIPEEEIRQAVEKFEESKELAERSMFNFLENDVEQVSQLAVFVEAALDYHRQSTEILQELQNKLELRIALASQVPRRDYMPKPVNTSSTNANGVEPSSSSKLTGTDIPSDQPCCRGLYDFEPENEGELGFKEGDIITLTNQIDENWYEGMLRGESGFFPINYVEVIVPLPR |
| 1769 | sp|P48029|SC6A8\_HUMAN | MAKKSAENGIYSVSGDEKKGPLIAPGPDGAPAKGDGPVGLGTPGGRLAVPPRETWTRQMDFIMSCVGFAVGLGNVWRFPYLCYKNGGGVFLIPYVLIALVGGIPIFFLEISLGQFMKAGSINVWNICPLFKGLGYASMVIVFYCNTYYIMVLAWGFYYLVKSFTTTLPWATCGHTWNTPDCVEIFRHEDCANASLANLTCDQLADRRSPVIEFWENKVLRLSGGLEVPGALNWEVTLCLLACWVLVYFCVWKGVKSTGKIVYFTATFPYVVLVVLLVRGVLLPGALDGIIYYLKPDWSKLGSPQVWIDAGTQIFFSYAIGLGALTALGSYNRFNNNCYKDAIILALINSGTSFFAGFVVFSILGFMAAEQGVHISKVAESGPGLAFIAYPRAVTLMPVAPLWAALFFFMLLLLGLDSQFVGVEGFITGLLDLLPASYYFRFQREISVALCCALCFVIDLSMVTDGGMYVFQLFDYYSASGTTLLWQAFWECVVVAWVYGADRFMDDIACMIGYRPCPWMKWCWSFFTPLVCMGIFIFNVVYYEPLVYNNTYVYPWWGEAMGWAFALSSMLCVPLHLLGCLLRAKGTMAERWQHLTQPIWGLHHLEYRAQDADVRGLTTLTPVSESSKVVVVESVM |
| 1770 | sp|P36024|SIS2\_YEAST | MTAVASTSGKQDADHNQSIECPRFSRGQKEILLDHEDAKGKDSIINSPVSGRQSISPTLSNATTTTTKSIMNATGTSGAVVSNTPEPGLKRVPAVTFSDLKQQQKQDSLTQLKNDSERTKSPNSNPAPVSNSIPGNHAVIPNHTNTSRTTQLSGSPLVNEMKDYDPKKKDSALKIVDTMKPDKIMATSTPISRENNKVTAKAPTSITLRKEDAQDQANNVSGQINVRSTPEETPVKQSVIPSIIPKRENSKNLDPRLPQDDGKLHVLFGATGSLSVFKIKPMIKKLEEIYGRDRISIQVILTQSATQFFEQRYTKKIIKSSEKLNKMSQYESTPATPVTPTPGQCNMAQVVELPPHIQLWTDQDEWDAWKQRTDPVLHIELRRWADILVVAPLTANTLSKIALGLCDNLLTSVIRAWNPSYPILLAPSMVSSTFNSMMTKKQLQTIKEEMSWVTVFKPSEKVMDINGDIGLGGMMDWNEIVNKIVMKLGGYPKNNEEEDDDEDEEEDDDEEEDTEDKNENNNDDDDDDDDDDDDDDDDDDDDDDDDEDEDEAETPGIIDKHQ |
| 1771 | sp|P36068|SHE2\_YEAST | MSKDKDIKVTPGTCELVEQILALLSRYLSSYIHVLNKFISHLRRVATLRFERTTLIKFVKKLRFYNDCVLSYNASEFINEGKNELDPEADSFDKVILPIASMFVKCVETFDLLNYYLTQSLQKEILSKTLNEDLTLTAESILAIDDTYNHFVKFSQWMIESLRIGSNLLDLEVVQFAIKCADEDGTNIGETDNIFLQEILPVNSEEEFQTLSAAWHSILDGKLSALDEEFDVVATKWHDKFGKLKN |
| 1772 | sp|Q12884|SEPR\_HUMAN | MKTWVKIVFGVATSAVLALLVMCIVLRPSRVHNSEENTMRALTLKDILNGTFSYKTFFPNWISGQEYLHQSADNNIVLYNIETGQSYTILSNRTMKSVNASNYGLSPDRQFVYLESDYSKLWRYSYTATYYIYDLSNGEFVRGNELPRPIQYLCWSPVGSKLAYVYQNNIYLKQRPGDPPFQITFNGRENKIFNGIPDWVYEEEMLATKYALWWSPNGKFLAYAEFNDTDIPVIAYSYYGDEQYPRTINIPYPKAGAKNPVVRIFIIDTTYPAYVGPQEVPVPAMIASSDYYFSWLTWVTDERVCLQWLKRVQNVSVLSICDFREDWQTWDCPKTQEHIEESRTGWAGGFFVSTPVFSYDAISYYKIFSDKDGYKHIHYIKDTVENAIQITSGKWEAINIFRVTQDSLFYSSNEFEEYPGRRNIYRISIGSYPPSKKCVTCHLRKERCQYYTASFSDYAKYYALVCYGPGIPISTLHDGRTDQEIKILEENKELENALKNIQLPKEEIKKLEVDEITLWYKMILPPQFDRSKKYPLLIQVYGGPCSQSVRSVFAVNWISYLASKEGMVIALVDGRGTAFQGDKLLYAVYRKLGVYEVEDQITAVRKFIEMGFIDEKRIAIWGWSYGGYVSSLALASGTGLFKCGIAVAPVSSWEYYASVYTERFMGLPTKDDNLEHYKNSTVMARAEYFRNVDYLLIHGTADDNVHFQNSAQIAKALVNAQVDFQAMWYSDQNHGLSGLSTNHLYTHMTHFLKQCFSLSD |
| 1773 | sp|Q9WU34|SEPT3\_RAT | MSKGLPEARTDTAMSELVPEPRPKPAVPMKPVSINSNLLGCIGIDTIIEQMRKKTMKTGFDFNIMVVGQSGLGKSTLVNTLFKSQVSRKASSWNREEKIPKTVEIKAIGHVIEEGGVKMKLTVIDTPGFGDQINNENCWEPIEKYINEQYEKFLKEEVNIARKKRIPDTRVHCCLYFISPTGHSLRPLDLEFMKHLSKVVNVIPVIAKADTMTLEEKSEFKQRVRKELEVNGIEFYPQKEFDEDLEDKTENDKIRQESMPFAVVGSDKEYQVNGKRVLGRKTPWGIIEVENLNHCEFALLRDFVIRTHLQDLKEVTHNIHYETYRAKRLNDNGGLPPGEGLLGTVLPPVPATPCPTAE |
| 1774 | sp|Q5XJV7|SETD5\_MOUSE | MSIAIPLGVTTPDTSYSDMAAGSDPESVEASPAVNEKSVYSTHNYGTTQRHGCRGLPYATIIPRSDLNGLPSPVEERCGDSPNSEGETVPTWCPCGLSQDGFLLNCDKCRGMSRGKVIRLHRRKQDNISGGDSSATESWDEELSPSTVLYTATQHTPTSITLTVRRTKPKKRKKSPEKGRAAPKTKKIKNSPSEAQNLDENTTEGWENRIRLWTDQYEEAFTNQYSADVQNALEQHLHSNKEFVGKPAILDTINKTELACNNTVIGSQMQLQLGRVTRVQKHRKILRAARDLALDTLIIEYRGKVMLRQQFEVNGHFFKKPYPFVLFYSKFNGVEMCVDARTFGNDARFIRRSCTPNAEVRHMIADGMIHLCIYAVSAITKDAEVTIAFDYEYSNCNYKVDCACHKGNRNCPIQKRNPNAAELPLPPPPSFPTIGAETRRRKARRKELELEQQNEVPEENPDPQPQEVPEKVTVSNEHEEVDNPEEKPEEEEKEEATDDQENSAHSRRTREDRKVEAIMHAFESLEKRKKRRDQPVEQSSSDIEITTSSSEIVVGEETKTAAPESEVSSPVSNVAIPSTPQSTGVNTRRSSHAGDVAAEKPIPKPPPAKPSRPRPKSRISRYRTSSAQRLKRQKQAIAQQAELSQAALEEGGSNNSVTPPEAGNTDSSGENRQLTGSDPTVISVTGSHVNRAASKYPKTKKYLVTEWLNDKAEKQECPVECPLRITTDPTVLATTLNMLPGLIHSPLICTTPKHYIRFGSPFMPERRRRPLLPDGTFSSCKKRWIKQALEEGMTQTSSVPQETRTQHLYQSNETSNSSSICKDNADLLSPLKKWKSRYLMEQNITKLLQPLSPVTPPPPSSGSKSPQLTTPGQTHPGEEECRNGYSLMFSPITSLTTASRSNTPLQFELCHRKDLDLTKVGFPDSSTHSCADRPSLLNCNHPDLASHPSVVPTSEAGFPSRSGDGPQTLLRNSDQAFRTEFNLMYAYSPLNAMPRADGLYRGSPLVGDRKPLHLDGGYCSPAEGFSSRYEHGFMKDLSRGSMSPGGERTCEGVPSAPQNPPQRKKVSLLEYRKRKQEAKENSGGGNDSSQSKSKSSGAGQGSSNSVSDTGAHGVQGSSAGTPSSPHKKFSPSHSSASHLEAVSPSDSRGTSSSHCRPQENISSRWMVPTSVERLREGGSIPKVLRSSVRVAQKGEPSPTWESNITEKESDPADGEGPEPLSSALSKGATVYSPSRYSYQLLQCDSPRTESQSLLQQSSSPFRGHPTQSPGYSYRTTALRPGNPPSHGSSESSLSSTSYPSPAHPVSTDSLAPFTGTPGYYSSQPHSGNSTGSNLPRRSCSSSAASPTPQGPSDSPTSDSVSQSSTGTLSSTSFPQNSRSSLPSDLRTISLPNAGQSAAYQASRVSAVSNSQHYPHRGSGGVHQYRLQPLQGSGVKTQTGLS |
| 1775 | sp|P0C6L3|SHDAG\_HDVD3 | MSRPEGRKNRGGREEVLEQWVSGRKKLEELERDLRKVKKKIKKLEDEHPWLGNIKGILGKKDKDGEGAPPAKRARTDQMEVDSGPRKRPSRGGFTDKERQDHRRRKALENKRKQLSAGGKNLSKEEEEELRRLTEEDERRERRIAGPQVGGVNPLEGGTRGAPGGGFVPSMQGVPESPFTRTGEGLDIRGSQGFP |
| 1776 | sp|Q8NFY4|SEM6D\_HUMAN | MRVFLLCAYILLLMVSQLRAVSFPEDDEPLNTVDYHYSRQYPVFRGRPSGNESQHRLDFQLMLKIRDTLYIAGRDQVYTVNLNEMPKTEVIPNKKLTWRSRQQDRENCAMKGKHKDECHNFIKVFVPRNDEMVFVCGTNAFNPMCRYYRLSTLEYDGEEISGLARCPFDARQTNVALFADGKLYSATVADFLASDAVIYRSMGDGSALRTIKYDSKWIKEPHFLHAIEYGNYVYFFFREIAVEHNNLGKAVYSRVARICKNDMGGSQRVLEKHWTSFLKARLNCSVPGDSFFYFDVLQSITDIIQINGIPTVVGVFTTQLNSIPGSAVCAFSMDDIEKVFKGRFKEQKTPDSVWTAVPEDKVPKPRPGCCAKHGLAEAYKTSIDFPDETLSFIKSHPLMDSAVPPIADEPWFTKTRVRYRLTAISVDHSAGPYQNYTVIFVGSEAGMVLKVLAKTSPFSLNDSVLLEEIEAYNHAKCSAENEEDKKVISLQLDKDHHALYVAFSSCIIRIPLSRCERYGSCKKSCIASRDPYCGWLSQGSCGRVTPGMLAEGYEQDTEFGNTAHLGDCHEILPTSTTPDYKIFGGPTSDMEVSSSSVTTMASIPEITPKVIDTWRPKLTSSRKFVVQDDPNTSDFTDPLSGIPKGVRWEVQSGESNQMVHMNVLITCVFAAFVLGAFIAGVAVYCYRDMFVRKNRKIHKDAESAQSCTDSSGSFAKLNGLFDSPVKEYQQNIDSPKLYSNLLTSRKELPPNGDTKSMVMDHRGQPPELAALPTPESTPVLHQKTLQAMKSHSEKAHGHGASRKETPQFFPSSPPPHSPLSHGHIPSAIVLPNATHDYNTSFSNSNAHKAEKKLQNIDHPLTKSSSKRDHRRSVDSRNTLNDLLKHLNDPNSNPKAIMGDIQMAHQNLMLDPMGSMSEVPPKVPNREASLYSPPSTLPRNSPTKRVDVPTTPGVPMTSLERQRGYHKNSSQRHSISAMPKNLNSPNGVLLSRQPSMNRGGYMPTPTGAKVDYIQGTPVSVHLQPSLSRQSSYTSNGTLPRTGLKRTPSLKPDVPPKPSFVPQTPSVRPLNKYTY |
| 1777 | sp|O74562|SEC8\_SCHPO | MDTRGYSETKKGRYPVGKKSLESPNGYSNYGTSMDNELSSEYASRGMHIGDLENLVNEIEDEWKDLGREDYQPISTALELLDDSSFGRDYKSFLNVYDRISAALQTIAHTHKDDFTRGISAYGEIMEGIQKCNSRIIALKQSLEASQECIGNTNSKELQQTLARSSQYKKVISVLKELNEANQLFDNFHTLVDSKQYYHASDLIRRVWDELSRSDFDGILVVEQFKSRMTGLLSHLEDILSEELVSITFLKDAVAYPIVSYCSPNPLRETSNPYFLRDFLKNNANTSTLGQSEQLRYLEEALSLKLSDCLKMDYGRDSLRDIRIVLESLNLLGKLPNAISSLKSRTSAEMFTTVDSTSRAIVNKYSLGNNVSTVNPFSKSLYDIGLHAETDREHTMISEFLTNLFTKLRCVLMHYRGISEFMTKLETKTPKHASSSHKSSIMSVNSDPTSPKVSKFDTSDSTFPFDTLLQAFESEIRLMLKDYLISKEEYIENSGNFVVGTEMSIYNLPGENEEDKLFDVTNEIAVENKSNAFYARINELVNEKAPELILNKSNASVSTIELFSGSSKEIVRLAGHVVFVGPSVFHASSVLPQTVFFLEDSVSILKNPNIPPQFAVNFMKEFLRGSYIPQLYKFMSSHFDTIMKDVGAFQLHRDWKIYSKIPIFKCHVAIVQYFHDLQDYLPIVALNLVEFYELLHTLLVRFRNHCSDYLSDLCRTAVLKEYKHVNEDTEDVDDTVRVKLLHDDVTYPQFIKFLKQKNPSLEGLNELCRMENKRLLQYEDRAITSEVKLPVSVLSKDSDLVNSVSYLHNSMEWFLQRCFSRFMNGSRRMNVLQQNQANFGGDFLPIDNLLGNNSDLMKGAYKEVFDSLQRLQFDALLLIRMEVRLQYIHSINQSVNLPDYVVEYRGRPDASIMALNSTIVTTNLKLETCLNEWERRFVFQGLSELVDSSLYSIFYKIESMNRGSCLQMLKNMSAMIQILKTVKEIHGDVEFPKSSRVFGIYQNGAKKIIEHFIAAPKKELLPDVKQMVRIYYQRLMKDAKRNGRDDLYRQYQKKIGSVLTQFDNTVGGARKNP |
| 1778 | sp|Q969X2|SIA7F\_HUMAN | MACSRPPSQCEPTSLPPGPPAGRRHLPLSRRRREMSSNKEQRSAVFVILFALITILILYSSNSANEVFHYGSLRGRSRRPVNLKKWSITDGYVPILGNKTLPSRCHQCVIVSSSSHLLGTKLGPEIERAECTIRMNDAPTTGYSADVGNKTTYRVVAHSSVFRVLRRPQEFVNRTPETVFIFWGPPSKMQKPQGSLVRVIQRAGLVFPNMEAYAVSPGRMRQFDDLFRGETGKDREKSHSWLSTGWFTMVIAVELCDHVHVYGMVPPNYCSQRPRLQRMPYHYYEPKGPDECVTYIQNEHSRKGNHHRFITEKRVFSSWAQLYGITFSHPSWT |
| 1779 | sp|Q9CZN4|SHSA9\_MOUSE | MRRVLRLLLGCFLTELCARMCRAQERSGHGQLAQLGGVLLLTGGNRSGAASGEAGEGVGGSDAPPTRAPTPDSCRGYFDVMGQWDPPFNCSSGDFIFCCGTCGFRFCCTFKKRRLNQSTCTNYDTPLWLNTGKPPARKDDPLHDPTKDKTNLIVYIICGVVAVMVLVGIFTKLGLEKAHRPQREHMSRALADVMRPQGHCNTDHMERDLNIVVHVQHYENMDSRTPINNLHTTQMNNAVPTSPLLQQMGHPHSYPNLGQISNPYEQQPPGKELNKYASLKAVGNSDGDWAVATLKSPKADKVNDDFYAKRRHLAELAVKGNLPLHPVRVEDEPRAFSPEHGPAQQNGQKSRTNKMPPHPLAYNSTANFKTWDPSDQSLRRQAYGNKGKLGIAESGSCDPLGTRTQHFPPTQPYFITNSKTEVTV |
| 1780 | sp|Q8C3Q5|SHSA7\_MOUSE | MPALLLLGTVALLASAAGPAGARPSNDTSSVAPGPLPALLAHLRRLTGALAGGGSAAGTSANATKTSPASGTGAAARAPPPAELCHGYYDVMGQYDATFNCSTGSYRFCCGTCHYRFCCEHRHMRLAQASCSNYDTPRWATTPPPLAGGAGGAGGAGGGPGPGQAGWLEGGRAGGAGGRGGEGPGGSTAYVVCGVISFALAVGVGAKVAFSKASRAPRAHREINVPRALVDILRHQAGPATRPDRARSSSLTPGLGGPDSMAPRTPKNLYNTMKPSNLDNLHYNVNSPKHHAATLDWRAMPPPSPSLHYSTLSCSRSFHNLSHLPPSYEAAVKSELNRYSSLKRLAEKDLDEAYLKRRQLEMPRGTLPLHALRRPGTGGGYRMDGWGGPEELGLAPAPNPRRVMSQEHLLGDGSRASRYEFTLPRARLVSQEHLLLSSPEALRQSREHLLSPPRSPALPPDPTTRASLAASHSNLLLGPGGPPTPLHGLPPSGLHAHHHHALHGSPQPAWMSDAGGGGGTLARRPPFQRQGTLEQLQFIPGHHLPQHLRTASKNEVTV |
| 1781 | sp|Q15427|SF3B4\_HUMAN | MAAGPISERNQDATVYVGGLDEKVSEPLLWELFLQAGPVVNTHMPKDRVTGQHQGYGFVEFLSEEDADYAIKIMNMIKLYGKPIRVNKASAHNKNLDVGANIFIGNLDPEIDEKLLYDTFSAFGVILQTPKIMRDPDTGNSKGYAFINFASFDASDAAIEAMNGQYLCNRPITVSYAFKKDSKGERHGSAAERLLAAQNPLSQADRPHQLFADAPPPPSAPNPVVSSLGSGLPPPGMPPPGSFPPPVPPPGALPPGIPPAMPPPPMPPGAAGHGPPSAGTPGAGHPGHGHSHPHPFPPGGMPHPGMSQMQLAHHGPHGLGHPHAGPPGSGGQPPPRPPPGMPHPGPPPMGMPPRGPPFGSPMGHPGPMPPHGMRGPPPLMPPHGYTGPPRPPPYGYQRGPLPPPRPTPRPPVPPRGPLRGPLPQ |
| 1782 | sp|P0AGB0|SERB\_ECOLI | MPNITWCDLPEDVSLWPGLPLSLSGDEVMPLDYHAGRSGWLLYGRGLDKQRLTQYQSKLGAAMVIVAAWCVEDYQVIRLAGSLTARATRLAHEAQLDVAPLGKIPHLRTPGLLVMDMDSTAIQIECIDEIAKLAGTGEMVAEVTERAMRGELDFTASLRSRVATLKGADANILQQVRENLPLMPGLTQLVLKLETLGWKVAIASGGFTFFAEYLRDKLRLTAVVANELEIMDGKFTGNVIGDIVDAQYKAKTLTRLAQEYEIPLAQTVAIGDGANDLPMIKAAGLGIAYHAKPKVNEKAEVTIRHADLMGVFCILSGSLNQK |
| 1783 | sp|P50605|SDC\_CAEEL | MILKLNFCLSTYSVLILLSLSTQAFAANQAKTKVVPSSTISTKSLKNGISEQVEGSANIPGRLADIEVNGSGYPTDDEDGDDVHGSGKPPSSATTKSDKVTSPSHAVVTAKPTTVPTTTASFKPPVQPKPKPAANDKEIKVEEDEDDDEDEDEDDEDDEEDFADENIHNDEDFFTTTTTTTYRPIVVATTSTPRSAATNPPRQQPPMVTSTISSGPFSPFHETLANGFYAAIAGGVLVAVITAILLVLFVVFRIRKKDEGSYALDEPKQARPYASYGYTKASTKEFYA |
| 1784 | sp|Q9UWY8|SPEH\_SACS2 | MMMGVELAFPKVVGKQVYGSLYECDEDVLKDTKRLEQIIKEAADIGNMNILDIKSWKIGEGVSVVAIILESHITIHTWPEYRFATVDVYSCGPHTSPLNAFRYIVEKLGAKRYTINEADRSSEF |
| 1785 | sp|O88406|SMAD7\_RAT | MFRTKRSALVRRLWRSRAPGGEDEEEGVGGGGGGGGLRGEGATDGRAYGAGGGGAGRAGCCLGKAVRGAKGHHHPHPPSSGAGAAGGAEADLKALTHSVLKKLKERQLELLLQAVESRGGTRTACLLLPGRLDCRLGPGAPASAQPAQPPSSYSLPLLLCKVFRWPDLRHSSEVKRLCCCESYGKINPELVCCNPHHLSRLCELESPPPPYSRYPMDFLKPTADCPDAVPSSDETGGTNYLAPGGLSDSQLLLEPGDRSHWCVVAYWEEKTRVGRLYCVQEPSLDIFYDLPQGNGFCLGQLNSDNKSQLVQKVRSKIGCGIQLTREVDGVWVYNRSSYPIFIKSATLDNPDSRTLLVHKVFPGFSIKAFDYEKAYSLQRPNDHEFMQQPWTGFTVQISFVKGWGQCYTRQFISSCPCWLEVIFNSR |
| 1786 | sp|P0AC41|SDHA\_ECOLI | MKLPVREFDAVVIGAGGAGMRAALQISQSGQTCALLSKVFPTRSHTVSAQGGITVALGNTHEDNWEWHMYDTVKGSDYIGDQDAIEYMCKTGPEAILELEHMGLPFSRLDDGRIYQRPFGGQSKNFGGEQAARTAAAADRTGHALLHTLYQQNLKNHTTIFSEWYALDLVKNQDGAVVGCTALCIETGEVVYFKARATVLATGGAGRIYQSTTNAHINTGDGVGMAIRAGVPVQDMEMWQFHPTGIAGAGVLVTEGCRGEGGYLLNKHGERFMERYAPNAKDLAGRDVVARSIMIEIREGRGCDGPWGPHAKLKLDHLGKEVLESRLPGILELSRTFAHVDPVKEPIPVIPTCHYMMGGIPTKVTGQALTVNEKGEDVVVPGLFAVGEIACVSVHGANRLGGNSLLDLVVFGRAAGLHLQESIAEQGALRDASESDVEASLDRLNRWNNNRNGEDPVAIRKALQECMQHNFSVFREGDAMAKGLEQLKVIRERLKNARLDDTSSEFNTQRVECLELDNLMETAYATAVSANFRTESRGAHSRFDFPDRDDENWLCHSLYLPESESMTRRSVNMEPKLRPAFPPKIRTY |
| 1787 | sp|P84022|SMAD3\_HUMAN | MSSILPFTPPIVKRLLGWKKGEQNGQEEKWCEKAVKSLVKKLKKTGQLDELEKAITTQNVNTKCITIPRSLDGRLQVSHRKGLPHVIYCRLWRWPDLHSHHELRAMELCEFAFNMKKDEVCVNPYHYQRVETPVLPPVLVPRHTEIPAEFPPLDDYSHSIPENTNFPAGIEPQSNIPETPPPGYLSEDGETSDHQMNHSMDAGSPNLSPNPMSPAHNNLDLQPVTYCEPAFWCSISYYELNQRVGETFHASQPSMTVDGFTDPSNSERFCLGLLSNVNRNAAVELTRRHIGRGVRLYYIGGEVFAECLSDSAIFVQSPNCNQRYGWHPATVCKIPPGCNLKIFNNQEFAALLAQSVNQGFEAVYQLTRMCTIRMSFVKGWGAEYRRQTVTSTPCWIELHLNGPLQWLDKVLTQMGSPSIRCSSVS |
| 1788 | sp|Q9YHT1|SDHA\_CHICK | MAAVVAASRSLAKCWLRPAVRAWPAACQTHARNFHFTVDGKKNASTKVSDSISTQYPVVDHEFDAVVVGAGGAGLRAAFGLSEAGFNTACVTKLFPTRSHTVAAQGGINAALGNMEDDNWRWHFYDTVKGSDWLGDQDAIHYMTEQAPAAVIELENYGMPFSRTEEGKIYQRAFGGQSLQFGKGGQAHRCCCVADRTGHSLLHTLYGRSLRYDTSYFVEYFALDLLMENGECRGVIALCIEDGTIHRFRAKNTVIATGGYGRTYFSCTSAHTSTGDGTAMVTRAGLPCQDLEFVQFHPTGIYGAGCLITEGCRGEGGILINSQGERFMERYAPVAKDLASRDVVSRSMTIEIREGRGCGPEKDHVYLQLHHLPPQQLATRLPGISETAMIFAGVDVTKEPIPVLPTVHYNMGGIPTNYKGQVITHVNGEDKVVPGLYACGEAASASVHGANRLGANSLLDLVVFGRACALTIAETCKPGEPVPSIKPNAGEESVANLDKLRFADGTIRTSEARLNMQKTMQSHAAVFRTGSILQEGCEKLSQIYCDLAHLKTFDRGIVWNTDLVETLELQNLMLCALQTIYGAEARKESRGAHAREDYKFRIDDFDYSKPLQGQQKRPFEEHWRKHTLSYVDVKSGKVTLKYRPVIDRTLNEEDCSSVPPAIRSY |
| 1789 | sp|B4HGG6|SPAST\_DROSE | MVRTKNQSSSSSASSSSTKSPIKSSSGAGSSGGGVGGRQSTHRSSSASNVAAVVAGGSSAAGGGSSSNRRSPGSSPDGDDDTTTTDDLTPTTCSPRSGHHHSYGGYSSSVHKQNLYVVSFPIIFLFNVLRSLIYQLFCIFRYLYGASTKVIYRPHRRDCNIEIVVQNSSKEQQQSLNHPSELNREGDGQEQQLSNQPQRFRPIQPLEMAANRPGGGYSPGPGDPLLAKQKHHHRRAFEYISKALKIDEENEGHKELAIELYRKGIKELEDGIAVDCWSGRGDVWDRAQRLHDKMQTNLSMARDRLHFLALREQDLQMQRLSLKEKQKEEARSKPQKTREPMLAGMTNEPMKLRVRSSGYGPKATTSAQPTASGRKLTIGSKRPVNLAVANKSQTLPRNLGSKTSVGAVQRQPAKTAATPPAVRRQFSSGRNTPPQRSRTPINNNGPSGSGASTPVVSVKGVEQKLVQLILDEIVEGGAKVEWTDIAGQDVAKQALQEMVILPSVRPELFTGLRAPAKGLLLFGPPGNGKTLLARAVATECSATFLNISAASLTSKYVGDGEKLVRALFAVARHMQPSIIFIDEVDSLLSERSSSEHEASRRLKTEFLVEFDGLPGNPDGDRIVVLAATNRPQELDEAALRRFTKRVYVSLPDEQTRELLLNRLLQKQGSPLDTEALRRLAKITDGYSGSDLTALAKDAALEPIRELNVEQVKCLDISAMRAITEQDFHSSLKRIRRSVAPQSLNSYEKWSQDYGDITI |
| 1790 | sp|Q9CQN4|SOSD1\_MOUSE | MLPPAIHLSLIPLLCILMRNCLAFKNDATEILYSHVVKPVPAHPSSNSTLNQARNGGRHFSSTGLDRNSRVQVGCRELRSTKYISDGQCTSISPLKELVCAGECLPLPVLPNWIGGGYGTKYWSRRSSQEWRCVNDKTRTQRIQLQCQDGSTRTYKITVVTACKCKRYTRQHNESSHNFESVSPAKPAQHHRERKRASKSSKHSLS |
| 1791 | sp|Q9ER60|SCN4A\_MOUSE | MASSSLPTLVPPGPHCLRPFTPESLAAIEQRAMEEEARLQRNKQMEIEEPERKPRSDLEAGKNLPLIYGDPPPEVIGVPLEDLDPYYSDKKTFIVLNKGKAIFRFSATPALYMLSPFSIVRRVAIKVLIHALFSMFIMITILTNCVFMTMSNPPSWSKDVEYTFTGIYTFESLIKMLARGFCIDDFTFLRDPWNWLDFSVITMAYVTEFVDLGNISALRTFRVLRALKTITVIPGLKTIVGALIQSVKKLSDVMILTVFCLSVFALVGLQLFMGNLRQKCVRWPPPMNDTNTTWYGNDTWYGNDTWYGNDTWYGNDTWNSQESWVSNSTFDWEAYINDEGNFYFLEGSNDALLCGNSSDAGHCPEGYECMKAGRNPNYGYTSYDTFSWAFLALFRLMTQDYWENLFQLTLRAAGKTYMIFFVVIIFLGSFYLINLILAVVAMAYAEQNEATLAEDQEKEEEFQQMLEKFKKHQEELEKAKAAQALEGGEEADGDPTHSKDCNGSLDTSGEKGPPRPSCSAESAISDAMEELEEAHQKCPPWWYKCAHKVLIWNCCAPWVKFKHIILLIVMDPFVDLGITICIVLNTLFMAMEHYPMTEHFDNVLSVGNLVFTGIFTAEMVLKLIAMDPYEYFQQGWNIFDSFIVTLSLVELGLANVQGLSVLRSFRLLRVFKLAKSWPTLNMLIKIIGNSVGALGNLTLVLAIIVFIFAVVGMQLFGKSYKECVCKIASDCSLPRWHMHDFFHSFLIVFRILCGEWIETMWDCMEVAGQAMCLTVFLMVMVIGNLVVLNLFLALLLSSFSADSLAASDEDGEMNNLQIAIGRIKWGIAFAKTFLLGLLHGKILSLKDIMLSLGEPGGAGENGESPPEDEKKEPPPEDGNKELKDNHILNHVGLTDGPRSSIEMDHLNFINNPYLTIHVPIASEESDLEMPTEEETDTFSEPEDIKKPLQPLYDGNSSVCSTADYKPPEEDPEEQAEENPEGELPEECFTEACVKRCPCLYVDISQGRGKMWWTLRRACFKIVEHNWFETFIVFMILLSSGALAFEDIYIEQRRVIRTILEYADKVFTYIFILEMLLKWVAYGFKVYFTNAWCWLDFLIVDVSIISLVANWLGYSELGPIKSLRTLRALRPLRALSRFEGMRVVVNALLGAIPSIMNVLLVCLIFWLIFSIMGVNLFAGKFYYCINTTTSERFDISVVNNKSECESLMYTGQVRWMNVKVNYDNVGLGYLSLLQVATFKGWMDIMYAAVDSREKEEQPDYEVNLYMYLYFVIFIIFGSFFTLNLFIGVIIDNFNQQKKKFGGKDIFMTEEQKKYYNAMKKLGSKKPQKPIPRPQNKIQGMVYDFVTKQVFDISIMILICLNMVTMMVETDDQSQLKVDILYNINMVFIIVFTGECVLKMFALRHYYFTIGWNIFDFVVVILSIVGLALSDLIQKYFVSPTLFRVIRLARIGRVLRLIRGAKGIRTLLFALMMSLPALFNIGLLLFLVMFIYSIFGMSNFAYVKKESGIDDMFNFETFGNSIICLFEITTSAGWDGLLNPILNSGPPDCDPTLENPGTNIKGDCGNPSIGICFFCSYIIISFLIVVNMYIAIILENFNVATEESSEPLCEDDFEMFYETWEKFDPDATQFIDYSRLSDFVDTLQEPLKIAKPNKIKLITLDLPMVPGDKIHCLDILFALTKEVLGDSGEMDALKQTMEEKFMAANPSKVSYEPITTTLKRKQEEVCAIKIQRAYRRHLLQRSVKQASYMYRHSQEGNGDGAPEKEGLLANTMNKMYGSEKEDNGVQSQGEKEKDSTEDAGPTTEVTAPSSSDTALTPPPPSPPPPSSPPQGQTVRPGVKESLV |
| 1792 | sp|Q8K004|SPAT2\_MOUSE | MDTKYKDDLFRKYVQFHEGKVDTTPGNQQPGSDEYLRVAAATLLSLHKVDPLYRFRLIQFYEVVESSLRSLSSSSLSALHCAFSMLETMAINLFLFPWKKEFRSIKTYTGPFVYYVKSTLLEKDIRAILRFMGYEPELGTVYKLKELVESLQVKMVSFELFLAKVECEQMLGIHSQVKDKGYSELDVVAERKGSTEDARGCSDALRRRAESREHLTTSMARVALQKSASERAAKDYYKPRVTKPSRSVDAYDSYWESRKPPSKASLSLRKEPLAMDVGEDLKDEIIRPSPSLLAMSSSPHGSPDDLSSISSINGLGLLRSTYFSTQDDVDLYTDSEPRATYRRQDALRPDVWLVKNDTHPIYHKRSPPTKESALSKCQNCGLSCSSSLCQRCDSVLVCPSASKPSAFPSKASVHDSLAHGAPMREKYVGHQTQGLDRLAPVHSKPKPSTTATSRCGFCNRAGATNTCTQCSKVSCDACLGAYHYDPCCRKSELHKFLPNSQLNYKSAPFSQLVYR |
| 1793 | sp|O43278|SPIT1\_HUMAN | MAPARTMARARLAPAGIPAVALWLLCTLGLQGTQAGPPPAPPGLPAGADCLNSFTAGVPGFVLDTNASVSNGATFLESPTVRRGWDCVRACCTTQNCNLALVELQPDRGEDAIAACFLINCLYEQNFVCKFAPREGFINYLTREVYRSYRQLRTQGFGGSGIPKAWAGIDLKVQPQEPLVLKDVENTDWRLLRGDTDVRVERKDPNQVELWGLKEGTYLFQLTVTSSDHPEDTANVTVTVLSTKQTEDYCLASNKVGRCRGSFPRWYYDPTEQICKSFVYGGCLGNKNNYLREEECILACRGVQGGPLRGSSGAQATFPQGPSMERRHPVCSGTCQPTQFRCSNGCCIDSFLECDDTPNCPDASDEAACEKYTSGFDELQRIHFPSDKGHCVDLPDTGLCKESIPRWYYNPFSEHCARFTYGGCYGNKNNFEEEQQCLESCRGISKKDVFGLRREIPIPSTGSVEMAVAVFLVICIVVVVAILGYCFFKNQRKDFHGHHHHPPPTPASSTVSTTEDTEHLVYNHTTRPL |
| 1794 | sp|P40482|SEC24\_YEAST | MSHHKKRVYPQAQLQYGQNATPLQQPAQFMPPQDPAAAGMSYGQMGMPPQGAVPSMGQQQFLTPAQEQLHQQIDQATTSMNDMHLHNVPLVDPNAYMQPQVPVQMGTPLQQQQQPMAAPAYGQPSAAMGQNMRPMNQLYPIDLLTELPPPITDLTLPPPPLVIPPERMLVPSELSNASPDYIRSTLNAVPKNSSLLKKSKLPFGLVIRPYQHLYDDIDPPPLNEDGLIVRCRRCRSYMNPFVTFIEQGRRWRCNFCRLANDVPMQMDQSDPNDPKSRYDRNEIKCAVMEYMAPKEYTLRQPPPATYCFLIDVSQSSIKSGLLATTINTLLQNLDSIPNHDERTRISILCVDNAIHYFKIPLDSENNEESADQINMMDIADLEEPFLPRPNSMVVSLKACRQNIETLLTKIPQIFQSNLITNFALGPALKSAYHLIGGVGGKIIVVSGTLPNLGIGKLQRRNESGVVNTSKETAQLLSCQDSFYKNFTIDCSKVQITVDLFLASEDYMDVASLSNLSRFTAGQTHFYPGFSGKNPNDIVKFSTEFAKHISMDFCMETVMRARGSTGLRMSRFYGHFFNRSSDLCAFSTMPRDQSYLFEVNVDESIMADYCYVQVAVLLSLNNSQRRIRIITLAMPTTESLAEVYASADQLAIASFYNSKAVEKALNSSLDDARVLINKSVQDILATYKKEIVVSNTAGGAPLRLCANLRMFPLLMHSLTKHMAFRSGIVPSDHRASALNNLESLPLKYLIKNIYPDVYSLHDMADEAGLPVQTEDGEATGTIVLPQPINATSSLFERYGLYLIDNGNELFLWMGGDAVPALVFDVFGTQDIFDIPIGKQEIPVVENSEFNQRVRNIINQLRNHDDVITYQSLYIVRGASLSEPVNHASAREVATLRLWASSTLVEDKILNNESYREFLQIMKARISK |
| 1795 | sp|B4M0H8|SPAST\_DROVI | MVRTKNQSSSSSASSSTKSPVKISGGGGGGGGSSSSTNRSRSCSEALIDDGKSSSKLSSNRQRTTTTITTTTTTPGSSPDDDTTDADLTPTSGNVPRGGQSVHKQNLYVVSFPIIFLFNVLRSLIYQLFCIFRYLYGASTKVIYRSPHRRDCNIEIVVQNSKEQQAIICPLEGSGVNIEQAQILPQRQRALQTLEMAASRGGTGAGGYSPGPGDPLLAKQKHHHRRAFEYISKALKIDEENEGHKELAIELYRKGIKELEDGIAVDCWSGRGDVWDRAQRLHEKMQTNLSMARDRLHFLALREEDLQMQRLSLKEQPKKQLPHKFKQPMLVGQTTTSSGSSSSSRASAEPPKITLRSSGYGPKTGGATTSKAVPAASGRKLTIGNKRPGNLAVANKSQTLPRNLGSKTTSTSVGAALQRQPGKTAATPPAVRRQFSSGRNTPPQRSRTPINNNAASGSGSGASTPLISVKGVEQKLVQLILDEIVEGGAKVEWSDIAGQDVAKQALQEMVILPSVRPELFTGLRAPAKGLLLFGPPGNGKTLLARAVATECSATFLNISAASLTSKYVGDGEKLVRALFAVARHMQPSIIFIDEVDSLLSERSSNEHEASRRLKTEFLVEFDGLPGNPEGDRIVVLAATNRPQELDEAALRRFTKRVYVSLPGVQTRELLLSRLLQKQGSPLDTEALARLAKITDGYSGSDLTALAKDAALEPIRELNVEQVKCLDISAMRPITEKDFHNSLKRIRRSVAPQSLNSYEKWSQDYGDITI |
| 1796 | sp|Q04891|SOX13\_MOUSE | MSMQSPVSVQLAPDSASTMVNCTIKSEEKKEPCHEAPQGAAPAVETQPGDPALASQDATNAKAPPQDCASPESSGSPEPKRPAASEAASGSQERLDFNRNLQEVVPAIEKLLSSDWKERFLGRSNVEAKDVKGTQESLAEKELQLLVMIHQLSALRDQLLTAHSEQKNMAAMLFEKQQQQMELARQQQEQIAKQQQQLIQQQHKINLLQQQIQQVNMPYVMIPAFPPSHQPLPVTPDSQLALPIQPIPCKPVEYPLQLLHSPPAPVVKRSGVAAHHPLQEPPQPLNLTAKPKVPELPNTSSSPSLKMNSCGPRPASHGAPTRDLQSSPPSLPLGFLGEGDAVTKAIQDARQLLHSHSGALENSPNTPFRKDLISLDSSPAKERLEESCVHPLEEAMLSCDMDGSRHFSESRNSSHIKRPMNAFMVWAKDERRKILQAFPDMHNSSISKILGSRWKSMTNQEKQPYYEEQARLSRQHLEKYPDYKYKPRPKRTCVVEGRRLRVGEYKALMRTRRQGARQSYTIPPQAGQAQVSSDILFPRAAGLPLARPLVEHYDPQGLDPNMPVIINTCSLREEGEGTDDRHSVADGEMYRYSEDEDSEGDEKSDEELVVLTD |
| 1797 | sp|Q14159|SPIDR\_HUMAN | MPRGSRARGSKRKRSWNTECPSFPGERPLQVRRAGLRTAGAAASLSEAWLRCGEGFQNTSGNPSLTAEEKTITEKHLELCPRPKQETTTSKSTSGLTDITWSSSGSDLSDEDKTLSQLQRDELQFIDWEIDSDRAEASDCDEFEDDEGAVEISDCASCASNQSLTSDEKLSELPKPSSIEILEYSSDSEKEDDLENVLLIDSESPHKYHVQFASDARQIMERLIDPRTKSTETILHTPQKPTAKFPRTPENSAKKKLLRGGLAERLNGLQNRERSAISLWRHQCISYQKTLSGRKSGVLTVKILELHEECAMQVAMCEQLLGSPATSSSQSVAPRPGAGLKVLFTKETAGYLRGRPQDTVRIFPPWQKLIIPSGSCPVILNTYFCEKVVAKEDSEKTCEVYCPDIPLPRRSISLAQMFVIKGLTNNSPEIQVVCSGVATTGTAWTHGHKEAKQRIPTSTPLRDSLLDVVESQGAASWPGAGVRVVVQRVYSLPSRDSTRGQQGASSGHTDPAGTRACLLVQDACGMFGEVHLEFTMSKARQLEGKSCSLVGMKVLQKVTRGRTAGIFSLIDTLWPPAIPLKTPGRDQPCEEIKTHLPPPALCYILTAHPNLGQIDIIDEDPIYKLYQPPVTRCLRDILQMNDLGTRCSFYATVIYQKPQLKSLLLLEQREIWLLVTDVTLQTKEERDPRLPKTLLVYVAPLCVLGSEVLEALAGAAPHSLFFKDALRDQGRIVCAERTVLLLQKPLLSVVSGASSCELPGPVMLDSLDSATPVNSICSVQGTVVGVDESTAFSWPVCDMCGNGRLEQRPEDRGAFSCGDCSRVVTSPVLKRHLQVFLDCRSRPQCRVKVKLLQRSISSLLRFAAGEDGSYEVKSVLGKEVGLLNCFVQSVTAHPTSCIGLEEIELLSAGGASAEH |
| 1798 | sp|Q12267|SMC4\_YEAST | MSDSPLSKRQKRKSAQEPELSLDQGDAEEDSQVENRVNLSENTPEPDLPALEASYSKSYTPRKLVLSSGENRYAFSQPTNSTTTSLHVPNLQPPKTSSRGRDHKSYSQSPPRSPGRSPTRRLELLQLSPVKNSRVELQKIYDRHQSSSKQQSRLFINELVLENFKSYAGKQVVGPFHTSFSAVVGPNGSGKSNVIDSMLFVFGFRANKMRQDRLSDLIHKSEAFPSLQSCSVAVHFQYVIDESSGTSRIDEEKPGLIITRKAFKNNSSKYYINEKESSYTEVTKLLKNEGIDLDHKRFLILQGEVENIAQMKPKAEKESDDGLLEYLEDIIGTANYKPLIEERMGQIENLNEVCLEKENRFEIVDREKNSLESGKETALEFLEKEKQLTLLRSKLFQFKLLQSNSKLASTLEKISSSNKDLEDEKMKFQESLKKVDEIKAQRKEIKDRISSCSSKEKTLVLERRELEGTRVSLEERTKNLVSKMEKAEKTLKSTKHSISEAENMLEELRGQQTEHETEIKDLTQLLEKERSILDDIKLSLKDKTKNISAEIIRHEKELEPWDLQLQEKESQIQLAESELSLLEETQAKLKKNVETLEEKILAKKTHKQELQDLILDLKKKLNSLKDERSQGEKNFTSAHLKLKEMQKVLNAHRQRAMEARSSLSKAQNKSKVLTALSRLQKSGRINGFHGRLGDLGVIDDSFDVAISTACPRLDDVVVDTVECAQHCIDYLRKNKLGYARFILLDRLRQFNLQPISTPENVPRLFDLVKPKNPKFSNAFYSVLRDTLVAQNLKQANNVAYGKKRFRVVTVDGKLIDISGTMSGGGNHVAKGLMKLGTNQSDKVDDYTPEEVDKIERELSERENNFRVASDTVHEMEEELKKLRDHEPDLESQISKAEMEADSLASELTLAEQQVKEAEMAYVKAVSDKAQLNVVMKNLERLRGEYNDLQSETKTKKEKIKGLQDEIMKIGGIKLQMQNSKVESVCQKLDILVAKLKKVKSASKKSGGDVVKFQKLLQNSERDVELSSDELKVIEEQLKHTKLALAENDTNMNETLNLKVELKEQSEQLKEQMEDMEESINEFKSIEIEMKNKLEKLNSLLTYIKSEITQQEKGLNELSIRDVTHTLGMLDDNKMDSVKEDVKNNQELDQEYRSCETQDESEIKDAETSCDNYHPMNIDETSDEVSRGIPRLSEDELRELDVELIESKINELSYYVEETNVDIGVLEEYARRLAEFKRRKLDLNNAVQKRDEVKEQLGILKKKRFDEFMAGFNIISMTLKEMYQMITMGGNAELELVDSLDPFSEGVTFSVMPPKKSWRNITNLSGGEKTLSSLALVFALHKYKPTPLYVMDEIDAALDFRNVSIVANYIKERTKNAQFIVISLRNNMFELAQQLVGVYKRDNRTKSTTIKNIDILNRT |
| 1799 | sp|P38989|SMC2\_YEAST | MKVEELIIDGFKSYATRTVITDWDPQFNAITGLNGSGKSNILDAICFVLGIASMSTVRASSLQDLIYKRGQAGVTKASVTIVFDNTDKSNSPIGFTNSPQISVTRQVVLGGTSKYLINGHRAPQQSVLQLFQSVQLNINNPNFLIMQGKITKVLNMKPSEILSLIEEAAGTKMFEDRREKAERTMSKKETKLQENRTLLTEEIEPKLEKLRNEKRMFLEFQSTQTDLEKTERIVVSYEYYNIKHKHTSIRETLENGETRMKMLNEFVKKTSEEIDSLNEDVEEIKLQKEKELHKEGTISKLENKENGLLNEISRLKTSLSIKVENLNDTTEKSKALESEIASSSAKLIEKKSAYANTEKDYKMVQEQLSKQRDLYKRKEELVSTLTTGISSTGAADGGYNAQLAKAKTELNEVSLAIKKSSMKMELLKKELLTIEPKLKEATKDNELNVKHVKQCQETCDKLRARLVEYGFDPSRIKDLKQREDKLKSHYYQTCKNSEYLKRRVTNLEFNYTKPYPNFEASFVHGVVGQLFQIDNDNIRYATALQTCAGGRLFNVVVQDSQTATQLLERGRLRKRVTIIPLDKIYTRPISSQVLDLAKKIAPGKVELAINLIRFDESITKAMEFIFGNSLICEDPETAKKITFHPKIRARSITLQGDVYDPEGTLSGGSRNTSESLLVDIQKYNQIQKQIETIQADLNHVTEELQTQYATSQKTKTIQSDLNLSLHKLDLAKRNLDANPSSQIIARNEEILRDIGECENEIKTKQMSLKKCQEEVSTIEKDMKEYDSDKGSKLNELKKELKLLAKELEEQESESERKYDLFQNLELETEQLSSELDSNKTLLHNHLKSIESLKLENSDLEGKIRGVEDDLVTVQTELNEEKKRLMDIDDELNELETLIKKKQDEKKSSELELQKLVHDLNKYKSNTNNMEKIIEDLRQKHEFLEDFDLVRNIVKQNEGIDLDTYRERSKQLNEKFQELRKKVNPNIMNMIENVEKKEAALKTMIKTIEKDKMKIQETISKLNEYKRETLVKTWEKVTLDFGNIFADLLPNSFAKLVPCEGKDVTQGLEVKVKLGNIWKESLIELSGGQRSLIALSLIMALLQFRPAPMYILDEVDAALDLSHTQNIGHLIKTRFKGSQFIVVSLKEGMFANANRVFRTRFQDGTSVVSIM |
| 1800 | sp|Q8TCT8|SPP2A\_HUMAN | MGPQRRLSPAGAALLWGFLLQLTAAQEAILHASGNGTTKDYCMLYNPYWTALPSTLENATSISLMNLTSTPLCNLSDIPPVGIKSKAVVVPWGSCHFLEKARIAQKGGAEAMLVVNNSVLFPPSGNRSEFPDVKILIAFISYKDFRDMNQTLGDNITVKMYSPSWPNFDYTMVVIFVIAVFTVALGGYWSGLVELENLKAVTTEDREMRKKKEEYLTFSPLTVVIFVVICCVMMVLLYFFYKWLVYVMIAIFCIASAMSLYNCLAALIHKIPYGQCTIACRGKNMEVRLIFLSGLCIAVAVVWAVFRNEDRWAWILQDILGIAFCLNLIKTLKLPNFKSCVILLGLLLLYDVFFVFITPFITKNGESIMVELAAGPFGNNEKLPVVIRVPKLIYFSVMSVCLMPVSILGFGDIIVPGLLIAYCRRFDVQTGSSYIYYVSSTVAYAIGMILTFVVLVLMKKGQPALLYLVPCTLITASVVAWRRKEMKKFWKGNSYQMMDHLDCATNEENPVISGEQIVQQ |
| 1801 | sp|P0C0J0|SPEB\_STRPY | MNKKKLGIRLLSLLALGGFVLANPVFADQNFARNEKEAKDSAITFIQKSAAIKAGARSAEDIKLDKVNLGGELSGSNMYVYNISTGGFVIVSGDKRSPEILGYSTSGSFDANGKENIASFMESYVEQIKENKKLDTTYAGTAEIKQPVVKSLLDSKGIHYNQGNPYNLLTPVIEKVKPGEQSFVGQHAATGCVATATAQIMKYHNYPNKGLKDYTYTLSSNNPYFNHPKNLFAAISTRQYNWNNILPTYSGRESNVQKMAISELMADVGISVDMDYGPSSGSAGSSRVQRALKENFGYNQSVHQINRSDFSKQDWEAQIDKELSQNQPVYYQGVGKVGGHAFVIDGADGRNFYHVNWGWGGVSDGFFRLDALNPSALGTGGGAGGFNGYQSAVVGIKP |
| 1802 | sp|Q56YN8|SMC3\_ARATH | MFIKQVIIEGFKSYKEQVATEEFSNKVNCVVGANGSGKSNFFHAIRFVLSDIYQNLRSEDRHALLHEGAGHQVVSAFVEIVFDNSDNRFPVDKEEIRLRRTVGLKKDDYFLDGKHITKGEVMNLLESAGFSRANPYYVVQQGKIASLTLMKDIERLDLLKEIGGTRVYEERRRESLRIMQETGNKRKQIIEVVHYLDERLRELDEEKEELRKYQQLDKQRKSLEYTIYDKELHDAREKLEQVEVARTKASEESTKMYDRVEKAQDDSKSLDESLKELTKELQTLYKEKETVEAQQTKALKKKTKLELDVKDFQDRITGNIQSKNDALEQLNTVEREMQDSLRELEAIKPLYESQVDKENQTSKRINELEKTLSILYQKQGRATQFSNKAARDKWLRKEIEDLKRVLDSNTVQEQKLQDEILRLNTDLTERDEHIKKHEVEIGELESRISKSHELFNTKKRERDEEQRKRKEKWGEESQLSSEIDKLKTELERAKKNLDHATPGDVRRGLNSIRRICADYRINGVFGPLVELVDCDEKFFTAVEVTAGNSLFNVVVENDDISTKIIRHLNSLKGGRVTFLPLNRIKAPRVNYPKDSDAIPLLKKLKFDSKFEPALGQVFGRTVVCRDLNVATRVAKNDDLDCITMEGDQVSRKGGMTGGFYDHRRSKLRFMNIIMQNTKSINEKEKELEDVRRQLQVIDQQITQLVTEQQRLEADWTLCKLQVEQLKQEIANANKQKHAIHKAIEYKEKLLGDIRTRIDQVRSSMSMKEAEMGTELVDHLTPEEREQLSKLNPEIKDLKEKKFAYQADRIERETRKAELEANIATNLKRRITELQATIASIDDDSLPSSAGTKEQELDDAKLSVNEAAKELKSVCDSIDEKTKQIKKIKDEKAKLKTLEDDCKGTLQDLDKKLEELFSLRNTLLAKQDEYTKKIRGLGPLSSDAFDTYKRKNIKELQKMLHRCSEQLQQFSHVNKKALDQYVNFTEQREELQNRQAELDAGDEKIKELITVLDQRKDESIERTFKGVAHHFRDVFSELVQDGYGNLIIMKKKDLDNDDEDDDDDDGGREAVTEGRVEKYIGVKVKVSFTGQGETQLMKQLSGGQKTVVALALIFAIQRCDPAPFYLFDEIDAALDPQYRTAVGNLIRRLADDYGTQFITTTFRPELVRVADKIYGVFHKNRVSIVNVISKDQALDFIEKDQSHDT |
| 1803 | sp|P08044|SNAI\_DROME | MAANYKSCPLKKRPIVFVEERLPQTEALALTKDSQFAQDQPQDLSLKRGRDEETQDYQQPEPKRDYVLNLSKTPERNSSSSSNSCLLSPPVEAQDYLPTEIHMRGLTAGTTGYTTATPTTINPFQSAFVMAAGCNPISALWSSYQPHLAAFPSPASSMASPQSVYSYQQMTPPSSPGSDLETGSEPEDLSVRNDIPLPALFHLFDEAKSSSSGASVSSSSGYSYTPAMSASSASVAANHAKNYRFKCDECQKMYSTSMGLSKHRQFHCPAAECNQEKKTHSCEECGKLYTTIGALKMHIRTHTLPCKCPICGKAFSRPWLLQGHIRTHTGEKPFQCPDCPRSFADRSNLRAHQQTHVDVKKYACQVCHKSFSRMSLLNKHSSSNCTITIA |
| 1804 | sp|P22082|SNF2\_YEAST | MNIPQRQFSNEEVNRCYLRWQHLRNEHGMNAPSVPEFIYLTKVLQFAAKQRQELQMQRQQQGISGSQQNIVPNSSDQAELPNNASSHISASASPHLAPNMQLNGNETFSTSAHQSPIMQTQMPLNSNGGNNMLPQRQSSVGSLNATNFSPTPANNGENAAEKPDNSNHNNLNLNNSELQPQNRSLQEHNIQDSNVMPGSQINSPMPQQAQMQQAQFQAQQAQQAQQAQQAQQAQARLQQGRRLPMTMFTAEQSELLKAQITSLKCLVNRKPIPFEFQAVIQKSINHPPDFKRMLLSLSEFARRRQPTDQNNQSNLNGGNNTQQPGTNSHYNNTNTDNVSGLTRNAPLDSKDENFASVSPAGPSSVHNAKNGTLDKNSQTVSGTPITQTESKKEENETISNVAKTAPNSNKTHTEQNNPPKPQKPVPLNVLQDQYKEGIKVVDIDDPDMMVDSFTMPNISHSNIDYQTLLANSDHAKFTIEPGVLPVGIDTHTATDIYQTLIALNLDTTVNDCLDKLLNDECTESTRENALYDYYALQLLPLQKAVRGHVLQFEWHQNSLLTNTHPNFLSKIRNINVQDALLTNQLYKNHELLKLERKKTEAVARLKSMNKSAINQYNRRQDKKNKRLKFGHRLIATHTNLERDEQKRAEKKAKERLQALKANDEEAYIKLLDQTKDTRITHLLRQTNAFLDSLTRAVKDQQKYTKEMIDSHIKEASEEVDDLSMVPKMKDEEYDDDDDNSNVDYYNVAHRIKEDIKKQPSILVGGTLKDYQIKGLQWMVSLFNNHLNGILADEMGLGKTIQTISLLTYLYEMKNIRGPYLVIVPLSTLSNWSSEFAKWAPTLRTISFKGSPNERKAKQAKIRAGEFDVVLTTFEYIIKERALLSKVKWVHMIIDEGHRMKNAQSKLSLTLNTHYHADYRLILTGTPLQNNLPELWALLNFVLPKIFNSVKSFDEWFNTPFANTGGQDKIELSEEETLLVIRRLHKVLRPFLLRRLKKDVEKELPDKVEKVVKCKMSALQQIMYQQMLKYRRLFIGDQNNKKMVGLRGFNNQIMQLKKICNHPFVFEEVEDQINPTRETNDDIWRVAGKFELLDRILPKLKATGHRVLIFFQMTQIMDIMEDFLRYINIKYLRLDGHTKSDERSELLRLFNAPDSEYLCFILSTRAGGLGLNLQTADTVIIFDTDWNPHQDLQAQDRAHRIGQKNEVRILRLITTNSVEEVILERAYKKLDIDGKVIQAGKFDNKSTSEEQEALLRSLLDAEEERRKKRESGVEEEEELKDSEINEILARNDEEMAVLTRMDEDRSKKEEELGVKSRLLEKSELPDIYSRDIGAELKREESESAAVYNGRGARERKTATYNDNMSEEQWLRQFEVSDDEKNDKQARKQRTKKEDKSEAIDGNGEIKGENIDADNDGPRINNISAEDRADTDLAMNDDDFLSKKRKAGRPRGRPKKVKLEGSENSEPPALESSPVTGDNSPSEDFMDIPKPRTAGKTSVKSARTSTRGRGRGRGRGRGRGRGRGRPPKARNGLDYVRTPAAATSPIDIREKVAKQALDLYHFALNYENEAGRKLSDIFLSKPSKALYPDYYMIIKYPVAFDNINTHIETLAYNSLKETLQDFHLIFSNARIYNTEGSVVYEDSLELEKVVTKKYCEIMGDNSQLDFTEFDEQYGTRPLVLPPVVTSSVAESFTDEADSSMTEASV |
| 1805 | sp|P18480|SNF5\_YEAST | MNNQPQGTNSVPNSIGNIFSNIGTPSFNMAQIPQQLYQSLTPQQLQMIQQRHQQLLRSRLQQQQQQQQQTSPPPQTHQSPPPPPQQSQPIANQSATSTPPPPPAPHNLHPQIGQVPLAPAPINLPPQIAQLPLATQQQVLNKLRQQAIAKNNPQVVNAITVAQQQVQRQIEQQKGQQTAQTQLEQQRQLLVQQQQQQQLRNQIQRQQQQQFRHHVQIQQQQQKQQQQQQQHQQQQQQQQQQQQQQQQQQQQQQQQQQQQQQQQQQQQQGQIPQSQQVPQVRSMSGQPPTNVQPTIGQLPQLPKLNLPKYQTIQYDPPETKLPYPTYWSDKKADTDTLLYEQIIQRDKINKYSLIRETNGYDPFSIYGFSNKEYISRLWHTLKYYQDLKNTRMKSITSTSQKIPSASIWGNGYSGYGNGITNTTTRVIPQVEVGNRKHYLEDKLKVYKQAMNETSEQLVPIRLEFDQDRDRFFLRDTLLWNKNDKLIKIEDFVDDMLRDYRFEDATREQHIDTICQSIQEQIQEFQGNPYIELNQDRLGGDDLRIRIKLDIVVGQNQLIDQFEWDISNSDNCPEEFAESMCQELELPGEFVTAIAHSIREQVHMYHKSLALLGYNFDGSAIEDDDIRSRMLPTITLDDVYRPAAESKIFTPNLLQISAAELERLDKDKDRDTRRKRRQGRSNRRGMLALSGTSASNTSMNGVHNTVAAGNASSLPPGEILLPDIADIPRTFRTPVPSTLMPGGVDVGPSVESYELRNTTTYKSRPDRPKPVSPPCYIIDHIPGHSLLLSIKLPGKVNTKEEFAAAPNDTSSGTNAMLPSPESLKTKLNSNIRAGVTIPSIPNPIANHTVTNSPNPTLQPVIPGGAASKSVPTPSLPIAPPVAPHDSEATLLTNSNNGSSNNNTQNT |
| 1806 | sp|Q60665|SKIL\_MOUSE | MENLQSKFSLVQGSNKKLNGMEDDGSPPVKKMMTDIHANGKTLTKVKKEHLDDYGDASVEPDGEHAKRNRVSLPETLNLNPSLKHTLAQFHLSSQSSLGGPAAFSARYSQESMSPTVFLPLPSPQVLPGPLLIPSDSSTELTQTLLEGESISCFQVGGEKRLCLPQVLNSVLREFSLQQINTVCDELYIYCSRCTSDQLHILKVLGILPFNAPSCGLITLTDAQRLCNALLRPRTFPQNGSILPAKSSLAQLKETGSAFEVEHECLGKCQGLFAPQFYVQPDAPCIQCLECCGMFAPQTFVMHSHRSPDKRTCHWGFESAKWHCYLHVNQKYLGTPEEKKLKIILEEMKEKFSMRNGKRIQSKTDTPSGMELPSWYPVIKQEGDHVPQTHSFLHPSYYLYMCDKVVAPNVSLTSAASQSKEATKAETSKSTSKQSEKPHESSQHQKTVSYPDVSLEEQEKMDLKTSRELYSCLDSSISNNSTSRKKSESAVCSLVRGTSKRDSEDSSPLLVRDGEDDKGKIMEDVMRTYVRQQEKLNSILQRKQQLQMEVEMLSSSKAMKELTEEQQNLQKELESLQSEHAQRMEEFYIEQRDLEKKLEQVMQQKCTCDSTLEKDREAEYAAQLAELRQRLDHAEADRQELQDELRQEREARQKLEMMIKELKLQIGKSSKPSKD |
| 1807 | sp|Q9QUM4|SLAF1\_MOUSE | MDPKGSLSWRILLFLSLAFELSYGTGGGVMDCPVILQKLGQDTWLPLTNEHQINKSVNKSVRILVTMATSPGSKSNKKIVSFDLSKGSYPDHLEDGYHFQSKNLSLKILGNRRESEGWYLVSVEENVSVQQFCKQLKLYEQVSPPEIKVLNKTQENENGTCSLLLACTVKKGDHVTYSWSDEAGTHLLSRANRSHLLHITLSNQHQDSIYNCTASNPVSSISRTFNLSSQACKQESSSESSPWMQYTLVPLGVVIIFILVFTAIIMMKRQGKSNHCQPPVEEKSLTIYAQVQKSGPQEKKLHDALTDQDPCTTIYVAATEPAPESVQEPNPTTVYASVTLPES |
| 1808 | sp|Q84TH4|SR45A\_ARATH | MGKREIHFTPVGRQVQRVLEYPLRLENRSPMSYSRRSRYSPSLSPYDKRRGRSVSRSLSRSPTRSVSSDAENPGNSLYVTGLSHRVTERDLEDHFAKEGKVTDVHLVLDPWTRESRGFGFISMKSVGDANRCIRSLDHSVLQGRVITVEKARRRRGRTPTPGKYLGLRTARGRHKSPSYSPRRSVSCSRSRSRSYSSDRGRSYSPSYGRRGRSSSYSPFYRRRRFYSPSRSPSPDDRYNRRRDRSYSPYYRRRDRSRSYSRNCRARDRSPYYMRRYRSRSRSYSPRYRARDRSCSPYYRGRDRSYSPHYQGRDRSYSPESRYYRRHRSVSGSVSPGGRSMSRSISPRKGRKESRSKSRRHDRQSSMCHSRSARSSTSRSVSP |
| 1809 | sp|Q99LM3|SMTL1\_MOUSE | MEQTEGNSSEDGTTVSPTAGNLETPGSQGIAEEVAEGTVGTSDKEGPSDWAEHLCKAASKSGESGGSPGEASILDELKTDLQGEARGKDEAQGDLAEEKVGKEDTTAASQEDTGKKEETKPEPNEVREKEEAMLASEKQKVDEKETNLESKEKSDVNDKAKPEPKEDAGAEVTVNEAETESQEEADVKDQAKPELPEVDGKETGSDTKELVEPESPTEEQEQGKENESEERAAVIPSSPEEWPESPTDEGPSLSPDGLAPESTGETSPSASESSPSEVPGSPTEPQPSEKKKDRAPERRVSAPSRPRGPRAQNRKAIMDKFGGAASGPTALFRNTKAAGAAIGGVKNMLLEWCRAMTRNYEHVDIQNFSSSWSSGMAFCALIHKFFPEAFDYAELDPAKRRHNFTLAFSTAEKLADCAQLLEVDDMVRLAVPDSKCVYTYIQELYRSLVQKGLVKTKKK |
| 1810 | sp|Q00963|SPTCB\_DROME | MTTDISIVRWDPSQGPGNEYIDEYEYDGGNSSSRLFERSRIKALAEERESVQKKTFTKWVNSHLCRVNCRIADLYVDMRDGKHLIKLLEVLSGERLPKPTKGKMRIHCLENVDKALQFLREQRVHLENIGSHDIVDGNASLNLGLIWTIILRFQIQDITIEEVDNKETKSAKDALLLWCQMKTAGYHNVNVRNFTTSWRDGLAFNAIIHKHRPDLVQFEKLSKTNAIHNLNNAFDVAEDKLGLAKLLDAEDVFVEHPDEKSIITYVVTYYHYFSKLKQETVQGKRIGKVVGIAMENDKMVHDYENFTSDLLKWIETTIQSLGEREFENSLAGVQGQLAQFSNYRTIEKPPKFVEKGNLEVLLFTLQSKMRANNQKPYTPKEGKMISDINKAWERLEKAEHERELALREELIRQEKLEQLAARFDRKASMRETWLSENQRLVSQDNFGFDLAAVEAAAKKHEAIETDIFAYEERVQAVVAVCDELESERYHDVKRILLRKDNVMRLWTYLLELLRARRMRLEISLQLQQNFQEMLYILDNMEEIKQLLMTDDYGKHLMGVEDLLQKHSLVEADINILGERVKVVVQNSQKFLSDDPESYKPCDPEIIVSRVQQLEDAYAELVRLAVERRSRLEESRKLWQFYWDTADEENWIKEKEQIVSTDEVGHDLTTVNLMLSKHKALESEITSHDPQLQNVAKVGSELITEGHFGADRIKDRLKEILNKWDHLLDLTKYRRQRLENAVEYFQLFADADDVDNWMLDTLRIVSSEDVGRDEANVQSLLKKHKDVADELKNYAEVIDALHKQAESLKLNEAEKANVDKRLEAIDNRYKELTELAKLRKQRLLDALSLYKLMSEADGVEQWIKEKTKMLDTMTPGKDIEDVEIMKHRFEGFDKEMNANASRVAVVNQLARQLLHVEHPNSDEILERQNHLNQEWSTLREKAEAKMDDLKSAHGVQTFYIECRETISWIEDKKRILTETDSLEMDLTGVMTLQRRLSGMDRDLAAIQAKLSSLEREANSIEDEHPEEAKIIRERIAQIELIWEQLTQMLKERDSKLEEAGDLHRFLRDLDHFQTWLTKTQTDVASEDTPTSLPEAEKLLNQHQSIREEIDNYTEDYKNMMEYGERLTSEGSTSDDPQYMFLRERLNALKDGWEELHQMWENRQVLLSQSLDQQLFNRDARQTEVLLSQQEHFLSKDDTPVNLEQAENQLKRHEAFLTTMEANDDKINTLLQVADTLVEKDHFDADKIGKRAENITGRRDDNRQRALDQHEKLKNQVKLHEFLQDLEELAEWVQEKYATSQDESYRSAKTIHSKWTRHQAFEAEIAANKERLFEAEKSAQELSKEKPEFKDVIEPKLKELAKQFDDLEVHTKEKGAMLFDANREVLVQQTCDDIDSYITDLEKQIVSGDTANDLTSVNILMQKQQVIQTQMAVKARQVEEIDKQTEYLQKTVPEEKIEPIVVKKTAVLERFEKIKAPLLERQKALEKKKEAFQFCRDVEDEKLWIDEKLPVANSPDYGNSLFNVHVLKKKNQSLATEIDNHEPRINAICNNGRKLIDEGHEDAKKFEALISDLTQKWQELKDAIENRRKHLLESEKVQQYFFDAQEAESWMSEQELYMMVEDRGKDEISAQNLMKKHENLEQSVEDYANTIRQLGEVARQFSGDDISSGDAVAVKQSQLDKLYAGLKDLAGERRARLNEALQLFMLSREVDDLEQWITDREVVAGSQELGQDFDHVTLLSERFNEFARDTEAVGGERVAKVNGIADNLIQAGHSDSATIAEWKDNLNESWQDLLELIETRTQMLAASRELHKFFHDCKDVLGRILEKQHGVSDELGRDAGSVSTLQRKHYNFLQDLITLYSQVQQIQEESAKLQDAYAGDKAKEITNREQEVLHAWDNLQAMCDARKQKLADTGDLFRFFNMVRILMIWMEDLVRQMNTSEKPRDVSGVELLMNNHQSLKAEIDTREDNFGACISLGKELLTRNHYASADIKDRLMTLSNSRNALLRRWEERWENLQLILEVYQFARDAAVAEAWLIAQEPYLLSSELGHTIDEVENLIKKHEAFEKSAAAQEERFSALERLTTFELKEMKRRQELAEEAERQRIKEEQEAKAASEAAEQAKREAERRDDVDVGASHDDSERGGTPGAGEGHEGYVTRKHEWDSTTKKASNRSWDKVYMAAKAGRISFYKDQKGYKSNPELTFRGEPSYDLQNAAIEIASDYTKKKHVLRVKLANGALFLLQAHDDTEMSQWVTSLKAQSDSTAVAASRSQTLPATSQKDEPKRRSFFTLKKK |
| 1811 | sp|Q9SJW3|SPR1\_ARATH | MGRGNSCGGGQSSLDYLFGGDAPAPKPVPAPRPAPTESNNGPAPPVTAVTATALTTATTSVEPAELNKQIPAGIKTPVNNYARAEGQNTGNFLTDRPSTKVHAAPGGGSSLDYLFTGGK |
| 1812 | sp|Q13424|SNTA1\_HUMAN | MASGRRAPRTGLLELRAGAGSGAGGERWQRVLLSLAEDVLTVSPADGDPGPEPGAPREQEPAQLNGAAEPGAGPPQLPEALLLQRRRVTVRKADAGGLGISIKGGRENKMPILISKIFKGLAADQTEALFVGDAILSVNGEDLSSATHDEAVQVLKKTGKEVVLEVKYMKDVSPYFKNSTGGTSVGWDSPPASPLQRQPSSPGPTPRNFSEAKHMSLKMAYVSKRCTPNDPEPRYLEICSADGQDTLFLRAKDEASARSWATAIQAQVNTLTPRVKDELQALLAATSTAGSQDIKQIGWLTEQLPSGGTAPTLALLTEKELLLYLSLPETREALSRPARTAPLIATRLVHSGPSKGSVPYDAELSFALRTGTRHGVDTHLFSVESPQELAAWTRQLVDGCHRAAEGVQEVSTACTWNGRPCSLSVHIDKGFTLWAAEPGAARAVLLRQPFEKLQMSSDDGASLLFLDFGGAEGEIQLDLHSCPKTIVFIIHSFLSAKVTRLGLLA |
| 1813 | sp|Q04629|SWF1\_YEAST | MSWNLLFVLLIGFVVLILLSPVFKSTWPFSTFYRNVFQPFLVDDQKYRWKLHLVPLFYTSIYLYLVYTYHMRVESTIKNELFLLERILIVPIIILPPVALGILAMVSRAEDSKDHKSGSTEEYPYDYLLYYPAIKCSTCRIVKPARSKHCSICNRCVLVADHHCIWINNCIGKGNYLQFYLFLISNIFSMCYAFLRLWYISLNSTSTLPRAVLTLTILCGCFTIICAIFTYLQLAIVKEGMTTNEQDKWYTIQEYMREGKLVRSLDDDCPSWFFKCTEQKDDAAEPLQDQHVTFYSTNAYDHKHYNLTHYITIKDASEIPNIYDKGTFLANLTDLI |
| 1814 | sp|P0AFZ5|SULA\_ECOLI | MYTSGYAHRSSSFSSAASKIARVSTENTTAGLISEVVYREDQPMMTQLLLLPLLQQLGQQSRWQLWLTPQQKLSREWVQASGLPLTKVMQISQLSPCHTVESMVRALRTGNYSVVIGWLADDLTEEEHAELVDAANEGNAMGFIMRPVSASSHATRQLSGLKIHSNLYH |
| 1815 | sp|Q9UUM2|SWI1\_SCHPO | MELDEVIQGIVSAIGGFDYSDDEKVYVLGDEALACLKDLKRYLQVVDEKYKVWQIRSLLSSLQLVTNDICPILSDWDKDITNYRNWRIALACVELLVPLTWPLETEHETFRENVDVLYNLRQAQSNYKNSILSYKKGSVLSAILAVLLKPLSTPAESRTLRDKGIIRIVLLLFRNILQIDELKTKNETIISFAKAHILDLIVTLVSNLDEFEHFDVYILEIVYNLIRGCKPSALFSDASLTNSQTELNSLLLKESTQNRYLKRNAHTRHNRFGTMLSVQTEDRRFTIASQNIKTDGLDELDSHKRFRKRGTRRKHFDDINKSFFINTEAGTALRNFAVEFLEAGFNPLFQSLLKDLEREDPRVLPIHKMQLLYVQSFFLEFMRFSSKPKKTEEIYSNDYSFGLAASVFDQRALIMHNRLMVESFEMKQWSTFQASMLSMTQLLFTLRSMTLCSSEIYQRIADNLLSNIFYQEEILLLVYSALKHFKTQSFGYLDAITELTIVLLKELEKFSSAKQYLYVKKRRRNQKSVDSNVLESDEDEESSLINANAAVEDRLFDFGRYESRYCDNGCIDSFVLFLQCYQDLDSKQIHRAISFFYRIFVKQKCHVYLYRLDFLRVLDKMFNDHVYFSTTNSARQDFEQFFVYYMRKLSDALKDVPALFIELPFPKLTDTFYYLEYGKSPLFSIHGSRKGPLYETVPGLSHLEKVAAVVACLINENKSDLLDELKVQLNCLISERKLITLADENKYINEGGNDGERMGKNLKGDTDSFNTALLKDGKFRLLLELCGFEESDNNIDVQALWKLPNSVIIDELVEHAMLLRRFTDDPPTFEGTKPEDLLVRKQRGNVRLPSSSEGETSDEEIEFEADDPITFANRREALNKITDRKRKKMKTNETIIDHTTRKKKENHLRSAKYIVDSDDDSETDIAFFQSEAALREKNAQKASALFKRIDDLEMEGKLQEIEQLSENSSSD |
| 1816 | sp|P56962|STX17\_HUMAN | MSEDEEKVKLRRLEPAIQKFIKIVIPTDLERLRKHQINIEKYQRCRIWDKLHEEHINAGRTVQQLRSNIREIEKLCLKVRKDDLVLLKRMIDPVKEEASAATAEFLQLHLESVEELKKQFNDEETLLQPPLTRSMTVGGAFHTTEAEASSQSLTQIYALPEIPQDQNAAESWETLEADLIELSQLVTDFSLLVNSQQEKIDSIADHVNSAAVNVEEGTKNLGKAAKYKLAALPVAGALIGGMVGGPIGLLAGFKVAGIAAALGGGVLGFTGGKLIQRKKQKMMEKLTSSCPDLPSQTDKKCS |
| 1817 | sp|P21521|SY65\_DROME | MPPNAKSETDAKPEAEPAPASEPAADLESVDQKLEETHHSKFREVDRQEQEVLAEKAAEAASQRIAQVESTTRSATTEAQESTTTAVPVIKKIEHVGEVVTEVIAERTGLPTWGVVAIIILVFLVVFGIIFFCVRRFLKKRRTKDGKGKKGVDMKSVQLLGSAYKEKVQPDMEELTENAEEGDEEDKQSEQKLGRLNFKLEYDFNSNSLAVTVIQAEELPALDMGGTSDPYVKVYLLPDKKKKFETKVHRKTLSPVFNETFTFKSLPYADAMNKTLVFAIFDFDRFSKHDQIGEVKVPLCTIDLAQTIEEWRDLVSVEGEGGQEKLGDICFSLRYVPTAGKLTVVILEAKNLKKMDVGGLSDPYVKIAIMQNGKRLKKKKTSIKKCTLNPYYNESFSFEVPFEQIQKICLVVTVVDYDRIGTSEPIGRCILGCMGTGTELRHWSDMLASPRRPIAQWHTLKDPEETDEILKNMK |
| 1818 | sp|Q5E9Y2|STX17\_BOVIN | MSEDEEKVKLRRLEPAIQKFTKIVIPTDLERLRKHQINIEKYQRCRVWDKLHEEHINAGRTVQQLRSNIREMEKLCLKVRKDDLGLLKRMIDPVKEEASAATAEFLQLHLESVEELKKQFNDEETFLQPSLTRSMTVGGTFHSTEDEADPQSMTQIYALPEIPRDQNAAESWETLEADLIELSQLVTDFSLLVNSQQEKIDSIEDHVNTAAVNVEEGTKNLGKAAKYKLAALPVAGALIGGVVGGPIGLLAGFKVAGIAAALGGGVLGFTGGKLIQRRKQKMMEKLASSCPDLPSQTDKKCS |
| 1819 | sp|Q658P3|STEA3\_HUMAN | MPEEMDKPLISLHLVDSDSSLAKVPDEAPKVGILGSGDFARSLATRLVGSGFKVVVGSRNPKRTARLFPSAAQVTFQEEAVSSPEVIFVAVFREHYSSLCSLSDQLAGKILVDVSNPTEQEHLQHRESNAEYLASLFPTCTVVKAFNVISAWTLQAGPRDGNRQVPICGDQPEAKRAVSEMALAMGFMPVDMGSLASAWEVEAMPLRLLPAWKVPTLLALGLFVCFYAYNFVRDVLQPYVQESQNKFFKLPVSVVNTTLPCVAYVLLSLVYLPGVLAAALQLRRGTKYQRFPDWLDHWLQHRKQIGLLSFFCAALHALYSFCLPLRRAHRYDLVNLAVKQVLANKSHLWVEEEVWRMEIYLSLGVLALGTLSLLAVTSLPSIANSLNWREFSFVQSSLGFVALVLSTLHTLTYGWTRAFEESRYKFYLPPTFTLTLLVPCVVILAKALFLLPCISRRLARIRRGWERESTIKFTLPTDHALAEKTSHV |
| 1820 | sp|Q00947|STP1\_YEAST | MPSTTLLFPQKHIRAIPGKIYAFFRELVSGVIISKPDLSHHYSCENATKEEGKDAADEEKTTTSLFPESNNIDRSLNGGCSVIPCSMDVSDLNTPISITLSPENRIKSEVNAKSLLGSRPEQDTGAPIKMSTGVTSSPLSPSGSTPEHSTKVLNNGEEEFICHYCDATFRIRGYLTRHIKKHAIEKAYHCPFFNSATPPDLRCHNSGGFSRRDTYKTHLKARHVLYPKGVKPQDRNKSSGHCAQCGEYFSTIENFVENHIESGDCKALPQGYTKKNEKRSGKLRKIKTSNGHSRFISTSQSVVEPKVLFNKDAVEAMTIVANNSSGNDIISKYGNNKLMLNSENFKVDIPKRKRKYIKKKQQQVSGSTVTTPEVATQNNQEVAPDEISSATIFSPFDTHLLEPVPSSSSESSAEVMFHGKQMKNFLIDINSFTNQQQQAQDNPSFLPLDIEQSSYDLSEDAMSYPIISTQSNRDCTQYDNTKISQILQSQLNPEYLSENHMRETQQYLNFYNDNFGSQF |
| 1821 | sp|Q9P289|STK26\_HUMAN | MAHSPVAVQVPGMQNNIADPEELFTKLERIGKGSFGEVFKGIDNRTQQVVAIKIIDLEEAEDEIEDIQQEITVLSQCDSSYVTKYYGSYLKGSKLWIIMEYLGGGSALDLLRAGPFDEFQIATMLKEILKGLDYLHSEKKIHRDIKAANVLLSEQGDVKLADFGVAGQLTDTQIKRNTFVGTPFWMAPEVIQQSAYDSKADIWSLGITAIELAKGEPPNSDMHPMRVLFLIPKNNPPTLVGDFTKSFKEFIDACLNKDPSFRPTAKELLKHKFIVKNSKKTSYLTELIDRFKRWKAEGHSDDESDSEGSDSESTSRENNTHPEWSFTTVRKKPDPKKVQNGAEQDLVQTLSCLSMIITPAFAELKQQDENNASRNQAIEELEKSIAVAEAACPGITDKMVKKLIEKFQKCSADESP |
| 1822 | sp|P07814|SYEP\_HUMAN | MATLSLTVNSGDPPLGALLAVEHVKDDVSISVEEGKENILHVSENVIFTDVNSILRYLARVATTAGLYGSNLMEHTEIDHWLEFSATKLSSCDSFTSTINELNHCLSLRTYLVGNSLSLADLCVWATLKGNAAWQEQLKQKKAPVHVKRWFGFLEAQQAFQSVGTKWDVSTTKARVAPEKKQDVGKFVELPGAEMGKVTVRFPPEASGYLHIGHAKAALLNQHYQVNFKGKLIMRFDDTNPEKEKEDFEKVILEDVAMLHIKPDQFTYTSDHFETIMKYAEKLIQEGKAYVDDTPAEQMKAEREQRIDSKHRKNPIEKNLQMWEEMKKGSQFGQSCCLRAKIDMSSNNGCMRDPTLYRCKIQPHPRTGNKYNVYPTYDFACPIVDSIEGVTHALRTTEYHDRDEQFYWIIEALGIRKPYIWEYSRLNLNNTVLSKRKLTWFVNEGLVDGWDDPRFPTVRGVLRRGMTVEGLKQFIAAQGSSRSVVNMEWDKIWAFNKKVIDPVAPRYVALLKKEVIPVNVPEAQEEMKEVAKHPKNPEVGLKPVWYSPKVFIEGADAETFSEGEMVTFINWGNLNITKIHKNADGKIISLDAKLNLENKDYKKTTKVTWLAETTHALPIPVICVTYEHLITKPVLGKDEDFKQYVNKNSKHEELMLGDPCLKDLKKGDIIQLQRRGFFICDQPYEPVSPYSCKEAPCVLIYIPDGHTKEMPTSGSKEKTKVEATKNETSAPFKERPTPSLNNNCTTSEDSLVLYNRVAVQGDVVRELKAKKAPKEDVDAAVKQLLSLKAEYKEKTGQEYKPGNPPAEIGQNISSNSSASILESKSLYDEVAAQGEVVRKLKAEKSPKAKINEAVECLLSLKAQYKEKTGKEYIPGQPPLSQSSDSSPTRNSEPAGLETPEAKVLFDKVASQGEVVRKLKTEKAPKDQVDIAVQELLQLKAQYKSLIGVEYKPVSATGAEDKDKKKKEKENKSEKQNKPQKQNDGQRKDPSKNQGGGLSSSGAGEGQGPKKQTRLGLEAKKEENLADWYSQVITKSEMIEYHDISGCYILRPWAYAIWEAIKDFFDAEIKKLGVENCYFPMFVSQSALEKEKTHVADFAPEVAWVTRSGKTELAEPIAIRPTSETVMYPAYAKWVQSHRDLPIKLNQWCNVVRWEFKHPQPFLRTREFLWQEGHSAFATMEEAAEEVLQILDLYAQVYEELLAIPVVKGRKTEKEKFAGGDYTTTIEAFISASGRAIQGGTSHHLGQNFSKMFEIVFEDPKIPGEKQFAYQNSWGLTTRTIGVMTMVHGDNMGLVLPPRVACVQVVIIPCGITNALSEEDKEALIAKCNDYRRRLLSVNIRVRADLRDNYSPGWKFNHWELKGVPIRLEVGPRDMKSCQFVAVRRDTGEKLTVAENEAETKLQAILEDIQVTLFTRASEDLKTHMVVANTMEDFQKILDSGKIVQIPFCGEIDCEDWIKKTTARDQDLEPGAPSMGAKSLCIPFKPLCELQPGAKCVCGKNPAKYYTLFGRSY |
| 1823 | sp|O15533|TPSN\_HUMAN | MKSLSLLLAVALGLATAVSAGPAVIECWFVEDASGKGLAKRPGALLLRQGPGEPPPRPDLDPELYLSVHDPAGALQAAFRRYPRGAPAPHCEMSRFVPLPASAKWASGLTPAQNCPRALDGAWLMVSISSPVLSLSSLLRPQPEPQQEPVLITMATVVLTVLTHTPAPRVRLGQDALLDLSFAYMPPTSEAASSLAPGPPPFGLEWRRQHLGKGHLLLAATPGLNGQMPAAQEGAVAFAAWDDDEPWGPWTGNGTFWLPRVQPFQEGTYLATIHLPYLQGQVTLELAVYKPPKVSLMPATLARAAPGEAPPELLCLVSHFYPSGGLEVEWELRGGPGGRSQKAEGQRWLSALRHHSDGSVSLSGHLQPPPVTTEQHGARYACRIHHPSLPASGRSAEVTLEVAGLSGPSLEDSVGLFLSAFLLLGLFKALGWAAVYLSTCKDSKKKAE |
| 1824 | sp|Q9VV43|TPPP\_DROME | MSEVAAANGSPSPAPTPEVPATELAQLALEDEPKVSFSDQFKAFSKFGDSKSDGKLITLSQSDKWMKQAKVIDKKITTTDTGIHFKKFKAMKISLSDYNKFLDDLAKTKKVELSEIKQKLASCGAPGVVSVSAGKAAAAVDRLTDTSKYTGSHKERFDASGKGKGIAGRRNVVDGSGYVSGYQHKDTYDNAH |
| 1825 | sp|Q9NQ86|TRI36\_HUMAN | MSESGEMSEFGYIMELIAKGKVTIKNIERELICPACKELFTHPLILPCQHSICHKCVKELLLTLDDSFNDVGSDNSNQSSPRLRLPSPSMDKIDRINRPGWKRNSLTPRTTVFPCPGCEHDVDLGERGINGLFRNFTLETIVERYRQAARAATAIMCDLCKPPPQESTKSCMDCSASYCNECFKIHHPWGTIKAQHEYVGPTTNFRPKILMCPEHETERINMYCELCRRPVCHLCKLGGNHANHRVTTMSSAYKTLKEKLSKDIDYLIGKESQVKSQISELNLLMKETECNGERAKEEAITHFEKLFEVLEERKSSVLKAIDSSKKLRLDKFQTQMEEYQGLLENNGLVGYAQEVLKETDQSCFVQTAKQLHLRIQKATESLKSFRPAAQTSFEDYVVNTSKQTELLGELSFFSSGIDVPEINEEQSKVYNNALINWHHPEKDKADSYVLEYRKINRDDEMSWNEIEVCGTSKIIQDLENSSTYAFRVRAYKGSICSPCSRELILHTPPAPVFSFLFDEKCGYNNEHLLLNLKRDRVESRAGFNLLLAAERIQVGYYTSLDYIIGDTGITKGKHFWAFRVEPYSYLVKVGVASSDKLQEWLRSPRDAVSPRYEQDSGHDSGSEDACFDSSQPFTLVTIGMQKFFIPKSPTSSNEPENRVLPMPTSIGIFLDCDKGKVDFYDMDQMKCLYERQVDCSHTLYPAFALMGSGGIQLEEPITAKYLEYQEDM |
| 1826 | sp|Q99PP7|TRI33\_MOUSE | MAENKGGGEAESGGGGSGSAPVTAGAAGPTAQEAEPPLAAVLVEEEEEEGGRAGAEGGAAGPDDGGVAAASSSSAPAASVPAASVGSAVPGGAASTPAPAAAPAPAPAPAPAPAPAPAPAPAPGSSSGPPLGPPASLLDTCAVCQQSLQSRREAEPKLLPCLHSFCLRCLPEPERQLSVPIPGGSNGDVQQVGVIRCPVCRQECRQIDLVDNYFVKDTSEAPSSSDEKSEQVCTSCEDNASAVGFCVECGEWLCKTCIEAHQRVKFTKDHLIRKKEDVSESVGTSGQRPVFCPVHKQEQLKLFCETCDRLTCRDCQLLEHKEHRYQFLEEAFQNQKGAIENLLAKLLEKKNYVHFAATQVQNRIKEVNETNKRVEQEIKVAIFTLINEINKKGKSLLQQLENVTKERQMKLLQQQNDITGLSRQVKHVMNFTNWAIASGSSTALLYSKRLITFQLRHILKARCDPVPAANGAIRFHCDPTFWAKNVVNLGNLVIESKPAPGYTPNVVVGQVPPGTNHISKTPGQINLAQLRLQHMQQQVYAQKHQQLQQMRLQQPPAPIPTTTATTQQHPRQAAPQMLQQQPPRLISVQTMQRGNMNCGAFQAHQMRLAQNAARIPGIPRHSAPQYSMMQPHLQRQHSNPGHAGPFPVVSAHNPINPTSPTTATMANANRGPTSPSVTAIELIPSVTNPENLPSLPDIPPIQLEDAGSSSLDNLLSRYISGSHLPPQPTSTMNPSPGPSALSPGSSGLSNSHTPVRPPSTSSTGSRGSCGSSGRTAEKSAHSFKSDQVKVKQEPGTEEEICSFSGAVKQEKTEDGRRSACMLSSPESSLTPPLSTNLHLESELDTLTGLENHVKTEPTDISESCKQSGLSNLVNGKSPIRNLMHRSARIGGDGNSKDDDPNEDWCAVCQNGGDLLCCEKCPKVFHLTCHVPTLLSFPSGDWICTFCRDIGKPEVEYDCDNMQHSKKGKTAQGLSPVDQRKCERLLLYLYCHELSIEFQEPVPVSIPNYYKIIKKPMDLSTVKKKLQKKHSQHYQIPDDFVADVRLIFKNCERFNEMMKVVQVYADTQEINLKGDSEVAKAGKAVALYFEDKLSEIYSDRTFTPLPEFEQDEDDGEVTEDSDEDFIQPRRKRLKSDERPVHIK |
| 1827 | sp|P9WG49|TOP1\_MYCTU | MADPKTKGRGSGGNGSGRRLVIVESPTKARKLASYLGSGYIVESSRGHIRDLPRAASDVPAKYKSQPWARLGVNVDADFEPLYIISPEKRSTVSELRGLLKDVDELYLATDGDREGEAIAWHLLETLKPRIPVKRMVFHEITEPAIRAAAEHPRDLDIDLVDAQETRRILDRLYGYEVSPVLWKKVAPKLSAGRVQSVATRIIVARERDRMAFRSAAYWDILAKLDASVSDPDAAPPTFSARLTAVAGRRVATGRDFDSLGTLRKGDEVIVLDEGSATALAAGLDGTQLTVASAEEKPYARRPYPPFMTSTLQQEASRKLRFSAERTMSIAQRLYENGYITYMRTDSTTLSESAINAARTQARQLYGDEYVAPAPRQYTRKVKNAQEAHEAIRPAGETFATPDAVRRELDGPNIDDFRLYELIWQRTVASQMADARGMTLSLRITGMSGHQEVVFSATGRTLTFPGFLKAYVETVDELVGGEADDAERRLPHLTPGQRLDIVELTPDGHATNPPARYTEASLVKALEELGIGRPSTYSSIIKTIQDRGYVHKKGSALVPSWVAFAVTGLLEQHFGRLVDYDFTAAMEDELDEIAAGNERRTNWLNNFYFGGDHGVPDSVARSGGLKKLVGINLEGIDAREVNSIKLFDDTHGRPIYVRVGKNGPYLERLVAGDTGEPTPQRANLSDSITPDELTLQVAEELFATPQQGRTLGLDPETGHEIVAREGRFGPYVTEILPEPAADAAAAAQGVKKRQKAAGPKPRTGSLLRSMDLQTVTLEDALRLLSLPRVVGVDPASGEEITAQNGRYGPYLKRGNDSRSLVTEDQIFTITLDEALKIYAEPKRRGRQSASAPPLRELGTDPASGKPMVIKDGRFGPYVTDGETNASLRKGDDVASITDERAAELLADRRARGPAKRPARKAARKVPAKKAAKRD |
| 1828 | sp|P13513|TRI5\_FUSSP | MENFPTEYFLNTTVRLLEYIRYRDSNYTREERIENLHYAYNKAAHHFAQPRQQQLLKVDPKRLQASLQTIVGMVVYSWAKVSKECMADLSIHYTYTLVLDDSKDDPYPTMVNYFDDLQAGREQAHPWWALVNEHFPNVLRHFGPFCSLNLIRSTLDFFEGCWIEQYNFGGFPGSHDYPQFLRRMNGLGHCVGASLWPKEQFNERSLFLEITSAIAQMENWMVWVNDLMSFYKEFDDERDQISLVKNYVVSDEISLHEALEKLTQDTLHSSKQMVAVFSDKDPQVMDTIECFMHGYVTWHLCDRRYRLSEIYEKVKEEKTEDAQKFCKFYEQAANVGAVSPSEWAYPPVAQLANVRSKDVKEVQKPFLSSIELVE |
| 1829 | sp|P40689|TSL\_DROME | MRSWPGLFWLLTLALLADGGRRESQLRIGKAINIFLRYGYLGISMRVIPLNDNSEPDRWVFKEPTKNIYRNLSGLAESHEDTTPGIFHGDFHMEFCENRRQLFQAYFRDFSIERMDKPWEAFTGGWFPDNAAKKLGINTSFIQGDYSYVLVRVVRFRETGRLNAEIPVHQPLEPDVRSRMDQLQIGNITSAVRFMEDVGTHYVNSYTTGNSLYQVFVYSRKNYSMIKERIKSKGLNGLSKLDLYNYFAPWFAAHLGQIRSASANATVERWARRKLQYEYYVVKYVTLLKLHGNSTLLRSLDSLLGNDAILQLDLKSLKPIFREEPEKESWYHEVLDNNVKLWELNMPQSHPTR |
| 1830 | sp|Q96PF2|TSSK2\_HUMAN | MDDATVLRKKGYIVGINLGKGSYAKVKSAYSERLKFNVAVKIIDRKKTPTDFVERFLPREMDILATVNHGSIIKTYEIFETSDGRIYIIMELGVQGDLLEFIKCQGALHEDVARKMFRQLSSAVKYCHDLDIVHRDLKCENLLLDKDFNIKLSDFGFSKRCLRDSNGRIILSKTFCGSAAYAAPEVLQSIPYQPKVYDIWSLGVILYIMVCGSMPYDDSDIRKMLRIQKEHRVDFPRSKNLTCECKDLIYRMLQPDVSQRLHIDEILSHSWLQPPKPKATSSASFKREGEGKYRAECKLDTKTGLRPDHRPDHKLGAKTQHRLLVVPENENRMEDRLAETSRAKDHHISGAEVGKAST |
| 1831 | sp|P35761|TTK\_MOUSE | MEAEELIGSSVTIDSIMSKMRDIKNKINEDCTDELSLSKICADHTETVNQIMRVGNTPENWLNFLLKLEKNSSPLNDDLLNKLIGRYSQAIEVLPPDKYGQNESFARIQVRLAELKAIQEPDDARDYFQMARENCKKFAFVHVSFAQFELSQGNLKKSEQLLHKAVETGAVPLQMLETAMRNLHLQKKQLLPEEDKKSVSASTVLSAQEPFSSSLGNVQNRSISCESRGQAGAARVLYGENLPPQDAEVRHQNPFKQTHAAKRSCPFGRVPVNLLNSPDFYVKTDSSAVTQLTTRLALSSVPLPYVTCLLHLQLLALAGLAKGSGPDRDAILPGSRPRGSDSYELRGLKPIQTIYLKDSLVSNEKSSELMSDLIALKSKTDSSLTKLEETKPEIAERRPMQWQSTRKPECVFQNPAAFAPLRHVPDVTPKADKESPPISVPKWLDPKSACETPSSSSLDDYMKCFKTPVVKNDFPPACPSSTPYSQLARLQQQQQQGLSTPLQSLQISGSSSINECISVNGRIYSILKQIGSGGSSKVFQVLNEKKQINAIKYVNLEDADSQTIESYRNEIAFLNKLQQHSDKIIRLYDYEITEQYIYMVMECGNIDLNSWLKKKKSINPWERKSYWKNMLEAVHIIHQHGIVHSDLKPANFVIVDGMLKLIDFGIANQMQPDTTSIVKDSQVGTVNYMAPEAIRDMSSSRENSKIRTKVSPRSDVWSLGCILYYMTYGRTPFQHIINQVSKLHAIINPAHEIEFPEISEKDLRDVLKCCLVRNPKERISIPELLTHPYVQIQPHPGSQMARGATDEMKYVLGQLVGLNSPNSILKTAKTLYERYNCGEGQDSSSSKTFDKKRERK |
| 1832 | sp|P83561|TXMG5\_MACGS | MKAPATTLILVMSLISVLWATPDLEEGDLLAELGDLIATDDEYPMKPEERGCKLTFWKCKNKKECCGWNACALGICMPR |
| 1833 | sp|Q8BHN1|TXLNG\_MOUSE | MATRLEEVTRGRGGGTEEASEGGRGGRRRSPPQKFEIGTMEEARICGLGVKADMVCNSQANDILQHQDPSCGGTTKKHSLEGDEGSDFITKNRNLVSSVFCTQEKREEIPGREARTGPPDGQQDSECSRNKEKTLGKEVLLLMQALNTLSTPEEKLAALCKKYADLLEESRNVQKQMKILQKKQAQIVKEKVHLQSEHSKAILARSKLESLCRELQRHNKTLKEENMQQAREEEERRKEATAHFQITLNEIQAQLEQHDIHNAKLRQENIELGEKLKKLIEQYALREEHIDKVFKHKELQQQLVDAKLQQTTQLIKEADEKHQREREFLLKEATESRHKYEQMKQQEVQLKQQLSLYMDKFEEFQTTMAKSNELFTTFRQEMEKMTKKIKKLEKETIIWRTKWENNNKALLQMAEEKTVRDKEYKAFQIKLERLEKLCRALQTERNELNEKVEVLKEQVSIKAADGDLVSPATQPCAVLDSFKETSRRTLGMHLEARAKSVCEKSAAQKPSSSGSPAQGIESVD |
| 1834 | sp|Q8VY10|UBC24\_ARATH | MEMSLTDSDWDSSSDSGSSEHEEVEFSYGGRAQNIFSNLEETIGKIDEFLSFERGFMYGDIVRSATEPSGQSGRVINIDMFVNLESTHGKIMKEVDTKRLQKLRSISLSDYVINGPWVGRVDKIVERVSVTLDDGTNYEVLVDGQDKLVAIPPNLLEDSQYSYYPGQRVQVKLAHAPRSTTWLCGTWRGTQVMGTVCTVEAGLVYVDWVASIVMEGDRNLTAPQALQNPESLTLLPCVSHASWQLGDWCILPGSSHCDIAERQTPNVAAYNLNECHKTFQKGFNRNMQNSGLDELFVITKTKMKVAVMWQDGSCSLGVDSQQLLPVGAVNAHDFWPEQFVVEKETCNSKKWGVVKAVNAKEQTVKVQWTIQVEKEATGCVDEVMEEIVSAYELLEHPDFGFCFSDVVVKLLPEGKFDPNADTIVATEAKHLLTESDYSGAYFLSSIGVVTGFKNGSVKVKWANGSTSKVAPCEIWKMERSEYSNSSTVSSEGSVQDLSQKISQSDEASSNHQETGLVKLYSVGESCNENIPECSSFFLPKAAIGFITNLASSLFGYQGSTSVISSHSRCNDSEDQSDSEVLVQETAESYDNSETNSGEVDMTTTMVNIPIEGKGINKTLDSTLLENSRNQVRFRQFDMVNDCSDHHFLSSDKGLAQSQVTKSWVKKVQQEWSNLEANLPNTIYVRVCEERMDLLRAALVGAPGTPYHDGLFFFDIMLPPQYPHEPPMVHYHSGGMRLNPNLYESGRVCLSLLNTWSGSGTEVWNAGSSSILQLLLSFQALVLNEKPYFNEAGYDKQLGRAEGEKNSVSYNENAFLITCKSMISMLRKPPKHFEMLVKDHFTHRAQHVLAACKAYMEGVPVGSSANLQGNSTTNSTGFKIMLSKLYPKLLEAFSEIGVDCVQEIGPES |
| 1835 | sp|P61078|UB2D3\_RAT | MALKRINKELSDLARDPPAQCSAGPVGDDMFHWQATIMGPNDSPYQGGVFFLTIHFPTDYPFKPPKVAFTTRIYHPNINSNGSICLDILRSQWSPALTISKVLLSICSLLCDPNPDDPLVPEIARIYKTDRDKYNRISREWTQKYAM |
| 1836 | sp|Q8NER1|TRPV1\_HUMAN | MKKWSSTDLGAAADPLQKDTCPDPLDGDPNSRPPPAKPQLSTAKSRTRLFGKGDSEEAFPVDCPHEEGELDSCPTITVSPVITIQRPGDGPTGARLLSQDSVAASTEKTLRLYDRRSIFEAVAQNNCQDLESLLLFLQKSKKHLTDNEFKDPETGKTCLLKAMLNLHDGQNTTIPLLLEIARQTDSLKELVNASYTDSYYKGQTALHIAIERRNMALVTLLVENGADVQAAAHGDFFKKTKGRPGFYFGELPLSLAACTNQLGIVKFLLQNSWQTADISARDSVGNTVLHALVEVADNTADNTKFVTSMYNEILMLGAKLHPTLKLEELTNKKGMTPLALAAGTGKIGVLAYILQREIQEPECRHLSRKFTEWAYGPVHSSLYDLSCIDTCEKNSVLEVIAYSSSETPNRHDMLLVEPLNRLLQDKWDRFVKRIFYFNFLVYCLYMIIFTMAAYYRPVDGLPPFKMEKTGDYFRVTGEILSVLGGVYFFFRGIQYFLQRRPSMKTLFVDSYSEMLFFLQSLFMLATVVLYFSHLKEYVASMVFSLALGWTNMLYYTRGFQQMGIYAVMIEKMILRDLCRFMFVYIVFLFGFSTAVVTLIEDGKNDSLPSESTSHRWRGPACRPPDSSYNSLYSTCLELFKFTIGMGDLEFTENYDFKAVFIILLLAYVILTYILLLNMLIALMGETVNKIAQESKNIWKLQRAITILDTEKSFLKCMRKAFRSGKLLQVGYTPDGKDDYRWCFRVDEVNWTTWNTNVGIINEDPGNCEGVKRTLSFSLRSSRVSGRHWKNFALVPLLREASARDRQSAQPEEVYLRQFSGSLKPEDAEVFKSPAASGEK |
| 1837 | sp|Q95017|UBC9\_CAEEL | MSGIAAGRLAEERKHWRKDHPFGFIAKPVKNADGTLNLFNWECAIPGRKDTIWEGGLYRIRMLFKDDFPSTPPKCKFEPPLFHPNVYPSGTVCLSLLDENKDWKPSISIKQLLIGIQDLLNHPNIEDPAQAEAYQIYCQNRAEYEKRVKKEAVKYAAELVQKQMLE |
| 1838 | sp|Q9Y5S1|TRPV2\_HUMAN | MTSPSSSPVFRLETLDGGQEDGSEADRGKLDFGSGLPPMESQFQGEDRKFAPQIRVNLNYRKGTGASQPDPNRFDRDRLFNAVSRGVPEDLAGLPEYLSKTSKYLTDSEYTEGSTGKTCLMKAVLNLKDGVNACILPLLQIDRDSGNPQPLVNAQCTDDYYRGHSALHIAIEKRSLQCVKLLVENGANVHARACGRFFQKGQGTCFYFGELPLSLAACTKQWDVVSYLLENPHQPASLQATDSQGNTVLHALVMISDNSAENIALVTSMYDGLLQAGARLCPTVQLEDIRNLQDLTPLKLAAKEGKIEIFRHILQREFSGLSHLSRKFTEWCYGPVRVSLYDLASVDSCEENSVLEIIAFHCKSPHRHRMVVLEPLNKLLQAKWDLLIPKFFLNFLCNLIYMFIFTAVAYHQPTLKKQAAPHLKAEVGNSMLLTGHILILLGGIYLLVGQLWYFWRRHVFIWISFIDSYFEILFLFQALLTVVSQVLCFLAIEWYLPLLVSALVLGWLNLLYYTRGFQHTGIYSVMIQKVILRDLLRFLLIYLVFLFGFAVALVSLSQEAWRPEAPTGPNATESVQPMEGQEDEGNGAQYRGILEASLELFKFTIGMGELAFQEQLHFRGMVLLLLLAYVLLTYILLLNMLIALMSETVNSVATDSWSIWKLQKAISVLEMENGYWWCRKKQRAGVMLTVGTKPDGSPDERWCFRVEEVNWASWEQTLPTLCEDPSGAGVPRTLENPVLASPPKEDEDGASEENYVPVQLLQSN |
| 1839 | sp|O00762|UBE2C\_HUMAN | MASQNRDPAATSVAAARKGAEPSGGAARGPVGKRLQQELMTLMMSGDKGISAFPESDNLFKWVGTIHGAAGTVYEDLRYKLSLEFPSGYPYNAPTVKFLTPCYHPNVDTQGNICLDILKEKWSALYDVRTILLSIQSLLGEPNIDSPLNTHAAELWKNPTAFKKYLQETYSKQVTSQEP |
| 1840 | sp|P68037|UB2L3\_MOUSE | MAASRRLMKELEEIRKCGMKNFRNIQVDEANLLTWQGLIVPDNPPYDKGAFRIEINFPAEYPFKPPKITFKTKIYHPNIDEKGQVCLPVISAENWKPATKTDQVIQSLIALVNDPQPEHPLRADLAEEYSKDRKKFCKNAEEFTKKYGEKRPVD |
| 1841 | sp|P00749|UROK\_HUMAN | MRALLARLLLCVLVVSDSKGSNELHQVPSNCDCLNGGTCVSNKYFSNIHWCNCPKKFGGQHCEIDKSKTCYEGNGHFYRGKASTDTMGRPCLPWNSATVLQQTYHAHRSDALQLGLGKHNYCRNPDNRRRPWCYVQVGLKPLVQECMVHDCADGKKPSSPPEELKFQCGQKTLRPRFKIIGGEFTTIENQPWFAAIYRRHRGGSVTYVCGGSLISPCWVISATHCFIDYPKKEDYIVYLGRSRLNSNTQGEMKFEVENLILHKDYSADTLAHHNDIALLKIRSKEGRCAQPSRTIQTICLPSMYNDPQFGTSCEITGFGKENSTDYLYPEQLKMTVVKLISHRECQQPHYYGSEVTTKMLCAADPQWKTDSCQGDSGGPLVCSLQGRMTLTGIVSWGRGCALKDKPGVYTRVSHFLPWIRSHTKEENGLAL |
| 1842 | sp|Q96PU4|UHRF2\_HUMAN | MWIQVRTIDGSKTCTIEDVSRKATIEELRERVWALFDVRPECQRLFYRGKQLENGYTLFDYDVGLNDIIQLLVRPDPDHLPGTSTQIEAKPCSNSPPKVKKAPRVGPSNQPSTSARARLIDPGFGIYKVNELVDARDVGLGAWFEAHIHSVTRASDGQSRGKTPLKNGSSCKRTNGNIKHKSKENTNKLDSVPSTSNSDCVAADEDVIYHIQYDEYPESGTLEMNVKDLRPRARTILKWNELNVGDVVMVNYNVESPGQRGFWFDAEITTLKTISRTKKELRVKIFLGGSEGTLNDCKIISVDEIFKIERPGAHPLSFADGKFLRRNDPECDLCGGDPEKKCHSCSCRVCGGKHEPNMQLLCDECNVAYHIYCLNPPLDKVPEEEYWYCPSCKTDSSEVVKAGERLKMSKKKAKMPSASTESRRDWGRGMACVGRTRECTIVPSNHYGPIPGIPVGSTWRFRVQVSEAGVHRPHVGGIHGRSNDGAYSLVLAGGFADEVDRGDEFTYTGSGGKNLAGNKRIGAPSADQTLTNMNRALALNCDAPLDDKIGAESRNWRAGKPVRVIRSFKGRKISKYAPEEGNRYDGIYKVVKYWPEISSSHGFLVWRYLLRRDDVEPAPWTSEGIERSRRLCLRLQYPAGYPSDKEGKKPKGQSKKQPSGTTKRPISDDDCPSASKVYKASDSAEAIEAFQLTPQQQHLIREDCQNQKLWDEVLSHLVEGPNFLKKLEQSFMCVCCQELVYQPVTTECFHNVCKDCLQRSFKAQVFSCPACRHDLGQNYIMIPNEILQTLLDLFFPGYSKGR |
| 1843 | sp|Q3UJD6|UBP19\_MOUSE | MSAGASATGPRRGPPGLEEATSKKKQKDRANLESKDGDARRVSLPRKEPTKDELLLDWRQSADEVIVKLRVGTGPVRLEDVDAAFTDTDCVVRLPDGRQWGGVFFAEIQSSCTKVQARKGGLLQLVLPKKVPLLTWPSLLKPLGTQELVPGLQCQENGQELSPIALEPGSEPRRAKQEARNQKRAQGRGEVGSGAGPGTQAGPSAKRAVHLRRGPEGEGSMDGPGPQGDAPSFLSDSATQVEAEEKLCAPPMNTQTSLLSSEKSLALLTVEKTVSPRNDPVAPVMVQDRDPEPEQEDQVKEEMALGADPTALVEEPESMVNLAFVKNDSYEKGPDSVVVHVYVKEIRRDSSRVLFREQDFTLIFQTRDGNFLRLHPGCGPHTIFRWQVKLRNLIEPEQCTFCFTASRIDICLRKRQSQRWGGLEAPATRGAVGGAKVAVPTGPTPLDSTPPGGGPHPLTGQEEARAVEKEKPKARSEDSGLDGVVARTPLEHVAPKPDPHLASPKPTCMVPPMPHSPVSGDSVEEDEEEEKKVCLPGFTGLVNLGNTCFMNSVIQSLSNTRELRDFFHDRSFEAEINYNNPLGTGGRLAIGFAVLLRALWKGTHQAFQPSKLKAIVASKASQFTGYAQHDAQEFMAFLLDGLHEDLNRIQNKPYTETVDSDGRPDEVVAEEAWQRHKMRNDSFIVDLFQGQYKSKLVCPVCAKVSITFDPFLYLPVPLPQKQKVLPIFYFAREPHSKPIKFLVSVSKENSSASEVLDSLSQSVHVKPENLRLAEVIKNRFHRVFLPSHSLDAVSPTDVLLCFELLSPELAKERVVVLEVQQRPQVPSIPISKCAACQRKQQSEEEKLKRCTRCYRVGYCNQFCQKTHWPDHKGLCRPENIGYPFLVSVPASRLTYARLAQLLEGYARYSVSVFQPPFQPGRMALESQSPGCTTLLSTSSLEAGDSEREPIQPSELQLVTPVAEGDTGAHRVWPPADRGPVPSTSGLSSEMLASGPIEGCPLLAGERVSRPEAAVPGYQHSSESVNTHTPQFFIYKIDASNREQRLEDKGETPLELGDDCSLALVWRNNERLQEFVLVASKELECAEDPGSAGEAARAGHFTLDQCLNLFTRPEVLAPEEAWYCPQCKQHREASKQLLLWRLPNVLIVQLKRFSFRSFIWRDKINDLVEFPVRNLDLSKFCIGQKEEQLPSYDLYAVINHYGGMIGGHYTACARLPNDRSSQRSDVGWRLFDDSTVTTVDESQVVTRYAYVLFYRRRNSPVERPPRASHSEHHPDLGPAAEAAASQASRIWQELEAEEEMVPEGPGPLGPWGPQDWVGPPPRGPTTPDEGCLRYFVLGTVAALVALVLNVFYPLVSQSRWR |
| 1844 | sp|P32861|UGPA1\_YEAST | MSTKKHTKTHSTYAFESNTNSVAASQMRNALNKLADSSKLDDAARAKFENELDSFFTLFRRYLVEKSSRTTLEWDKIKSPNPDEVVKYEIISQQPENVSNLSKLAVLKLNGGLGTSMGCVGPKSVIEVREGNTFLDLSVRQIEYLNRQYDSDVPLLLMNSFNTDKDTEHLIKKYSANRIRIRSFNQSRFPRVYKDSLLPVPTEYDSPLDAWYPPGHGDLFESLHVSGELDALIAQGREILFVSNGDNLGATVDLKILNHMIETGAEYIMELTDKTRADVKGGTLISYDGQVRLLEVAQVPKEHIDEFKNIRKFTNFNTNNLWINLKAVKRLIESSNLEMEIIPNQKTITRDGHEINVLQLETACGAAIRHFDGAHGVVVPRSRFLPVKTCSDLLLVKSDLFRLEHGSLKLDPSRFGPNPLIKLGSHFKKVSGFNARIPHIPKIVELDHLTITGNVFLGKDVTLRGTVIIVCSDGHKIDIPNGSILENVVVTGNLQILEH |
| 1845 | sp|G5EDZ2|UMPS\_CAEEL | MSSLTDKTRNGALKRNLLRQMLKASVFKFGEFQLKSGQISPIYIDLRECFGHPGLLMLISEAISKQVEISEVQYAGVLGIPYAALPYASVAAGNYLKKPLLIVRKEAKSYGTKKLIEGLYQPNDRLILIEDVVTTGGSILDVVKVLHTENLVASDVFCILDREQGGRQKLQDAGVTLHSLLDMQTVLTFLYSTGAIGDEQWHGIVQALNLPYTSPTKLEINSELENLSSLPYVENVRTPLAERESLTESALIKKILGIMRRKKSNLCLAVDYTTVEQCLQMIELAGPFVLAIKLHADAITDFNEEFTRKLTTMANDMDFIIFEDRKFGDTGNTNLLQLTGAQKIANWADVVTVHAVQGSDSIAGVFRKLAKDPTYRLSGVLLIAQLSTKGSLTALEGYTETAVKIANENRDVISGFITQTRVSACSDLLNWTPGVNLDAKSDSAGQQWRGVDEAIEVQQNDIIIVGRGVTSSSEPVQQLKRYRQIAWDALTRSDDSI |
| 1846 | sp|Q8TL28|ULIL\_METAC | MAEKFESRGIEEASSEVPTQRRCGAMEVHHRLLRSASYVRERDQIENLALKYKQGFRAISRMEIVKIPVVVHVVWNEEEENISDAQIQSQIDILNKDFRKLNSDVSQVPSVWSNLIADLGIEFFLATKDPNGNQTTGITRTQTSVTFFTTSDEVKFASSGGEDAWPADRYLNIWVCHVLKSEIGQDILGYAQFPGGPAETDGVVIVDAAFGTTGTALPPFDKGRTATHEIGHWLNLYHIWGDELRFEDPCSRSDEVDDTPNQADPNFGCPSYPHVSCSNGPNGDMFMNYMDYVDDKCMVMFTQGQATRVNACLDGPRSSFLARVEETEKKEAPSKREMPMPR |
| 1847 | sp|P19224|UD16\_HUMAN | MACLLRSFQRISAGVFFLALWGMVVGDKLLVVPQDGSHWLSMKDIVEVLSDRGHEIVVVVPEVNLLLKESKYYTRKIYPVPYDQEELKNRYQSFGNNHFAERSFLTAPQTEYRNNMIVIGLYFINCQSLLQDRDTLNFFKESKFDALFTDPALPCGVILAEYLGLPSVYLFRGFPCSLEHTFSRSPDPVSYIPRCYTKFSDHMTFSQRVANFLVNLLEPYLFYCLFSKYEELASAVLKRDVDIITLYQKVSVWLLRYDFVLEYPRPVMPNMVFIGGINCKKRKDLSQEFEAYINASGEHGIVVFSLGSMVSEIPEKKAMAIADALGKIPQTVLWRYTGTRPSNLANNTILVKWLPQNDLLGHPMTRAFITHAGSHGVYESICNGVPMVMMPLFGDQMDNAKRMETKGAGVTLNVLEMTSEDLENALKAVINDKSYKENIMRLSSLHKDRPVEPLDLAVFWVEFVMRHKGAPHLRPAAHDLTWYQYHSLDVIGFLLAVVLTVAFITFKCCAYGYRKCLGKKGRVKKAHKSKTH |
| 1848 | sp|Q14CS0|UBX2B\_HUMAN | MAEGGGPEPGEQERRSSGPRPPSARDLQLALAELYEDEVKCKSSKSNRPKATVFKSPRTPPQRFYSSEHEYSGLNIVRPSTGKIVNELFKEAREHGAVPLNEATRASGDDKSKSFTGGGYRLGSSFCKRSEYIYGENQLQDVQILLKLWSNGFSLDDGELRPYNEPTNAQFLESVKRGEIPLELQRLVHGGQVNLDMEDHQDQEYIKPRLRFKAFSGEGQKLGSLTPEIVSTPSSPEEEDKSILNAVVLIDDSVPTTKIQIRLADGSRLIQRFNSTHRILDVRNFIVQSRPEFAALDFILVTSFPNKELTDESLTLLEADILNTVLLQQLK |
| 1849 | sp|Q63665|USF2\_RAT | MDMLDPGLDPASSATAAAAASHDKGPEAEEGVELQEGGDGPGAEEQTAVAIASVQQAAFGDHNIQYQFRTESNGGQVTYRVVQVTDGQLDGQGDAAGAVSVVSTAAFAGGQQAVTQVGVDGAAQRPGPAAASVPTGPAAPFPLAVIQNPFSNGGSPAAEAVSGEARFAYFPASSVGDTTAVSVQTTDQSLQAGGQFYVMMTPQDVLQTGTQRTIAPRTHPYSPKIDGTRTPRDERRRAQHNEVERRRRDKINNWIVQLSKIIPDCHADNSKTGASKGGILSKACDYIRELRQTNQRMQETFKEAERLQMDNELLRQQIEELKNENALLRAQLQQHNLEMVGESTRQ |
| 1850 | sp|Q10658|UN119\_CAEEL | MKAEQQQQSIAPGSATFPSQMPRPPPVTEQAITTEAELLAKNQITPNDVLALPGITQGFLCSPSANVYNIEFTKFQIRDLDTEHVLFEIAKPENETEENLQAQAESARYVRYRFAPNFLKLKTVGATVEFKVGDVPITHFRMIERHFFKDRLLKCFDFEFGFCMPNSRNNCEHIYEFPQLSQQLMDDMINNPNETRSDSFYFVENKLVMHNKADYSYDA |
| 1851 | sp|B2RUP2|UN13D\_MOUSE | MATHLSHPQRRPLLRQAIKIRRRRVRDLQDPPPQATQEVQVQSHHFSPEERDLLYEEALYTVLHRLGQPEPNHVKEASELLSYLQEAFQVQPEEHQQMLRRVRELEKPVFCLKATVKQAKGILGKDVSGFSDPYCLLGIEQKVGVAEGSPVSRRRQKAVVKHTIPEEETHRTQVKSQTLNPVWDETFILEFEDIANASFHLDMWDLDTVESVRQKLGELTDLHGLRRIFKEARKDKGQDDFLGNVVLRLQDLRCREDQWFPLEPCTETYPDRGQCHLQFQFIHKRRATAASRSQPSYTVHFHLLQQLVSHEVTQHQAGSTSWDASLSPQAVTILFLHATQKDLSDFHQSMAQWLAYSRLYQSLEFPSSCLLHPITSIEYQWIQGRLKAEQREELATSFTSLLAYGLSLIRKFRSVFPLSVSDSPSRLQSLLRVLVQMCKMKAFGELCPDSAPLSQLVSEALRMGTVEWFHLMQQHHQPMVQGILEAGKALLNLVQDVMGDLYQCRRTWNKIFHNVLKIDLFSMAFLELQWLVAKRVQDHTVAAGNLVSPDIGESLFQLYVSLKELCQLGPVPSDSREVLALDGFHRWFQPAIPSWLQKTYSVALERVQRAVQMDTLVPLGELTKHSTSAVDLSTCFAQISHTARQLDWPDPEEAFMITVKFVEDTCRLALVYCSLIKARARELSAVQKDQSQAADMLCVVVNNMEQLRLIIDKLPTQLAWEALEQRVGAVLEEGQLQNTLHAQLQGALAGLGHEIRTGVRTLAEQLEVGIATHIQKLIGVKESVLPEDAILPLMKFLEVKLCYMNTNLVQENFSSLLTLLWTHTLTVLVEVASSQRSSSLASGRLKVALQNLEVCFHAEGCGLPPEALHTDTFQALQNDLELQAASSRELIQKYFCSRIQQQAETTSERLGAVTVKVSYRASEQRLRVELLSASSLLPLDSNGSSDPFVQLTLEPRHEFPEVAPRETQKHKKELHPLFDETFEFLVPAEPCQKAWACLLLTVLDHDRLGADDLEGEAFLPLCRVPGLTDCAEPGEAPQMRLPLTYPAPNGDPILRLLESRKGDREAQAFVKLRRQRAKQASQHAP |
| 1852 | sp|O08747|UNC5C\_MOUSE | MRKGLRATAARCGLGLGYLLQMLVLPALALLSASGTGSAAQDDEFFHELPETFPSDPPEPLPHFLIEPEEAYIVKNKPVNLYCKASPATQIYFKCNSEWVHQKDHVVDERVDETSGLIVREVSIEISRQQVEELFGPEDYWCQCVAWSSAGTTKSRKAYVRIAYLRKTFEQEPLGKEVSLEQEVLLQCRPPEGIPVAEVEWLKNEDIIDPAEDRNFYITIDHNLIIKQARLSDTANYTCVAKNIVAKRKSTTATVIVYVNGGWSTWTEWSVCNSRCGRGYQKRTRTCTNPAPLNGGAFCEGQSVQKIACTTLCPVDGRWTSWSKWSTCGTECTHWRRRECTAPAPKNGGKDCDGLVLQSKNCTDGLCMQAAPDSDDVALYVGIVIAVTVCLAITVVVALFVYRKNHRDFESDIIDSSALNGGFQPVNIKAARQDLLAVPPDLTSAAAMYRGPVYALHDVSDKIPMTNSPILDPLPNLKIKVYNSSGAVTPQDDLAEFSSKLSPQMTQSLLENEALNLKNQSLARQTDPSCTAFGTFNSLGGHLIIPNSGVSLLIPAGAIPQGRVYEMYVTVHRKENMRPPMEDSQTLLTPVVSCGPPGALLTRPVILTLHHCADPSTEDWKIQLKNQAVQGQWEDVVVVGEENFTTPCYIQLDAEACHILTENLSTYALVGQSTTKAAAKRLKLAIFGPLCCSSLEYSIRVYCLDDTQDALKEVLQLERQMGGQLLEEPKALHFKGSIHNLRLSIHDIAHSLWKSKLLAKYQEIPFYHIWSGSQRNLHCTFTLERLSLNTVELVCKLCVRQVEGEGQIFQLNCTVSEEPTGIDLPLLDPASTITTVTGPSAFSIPLPIRQKLCSSLDAPQTRGHDWRMLAHKLNLDRYLNYFATKSSPTGVILDLWEAQNFPDGNLSMLAAVLEEMGRHETVVSLAAEGQY |
| 1853 | sp|P62256|UBE2H\_HUMAN | MSSPSPGKRRMDTDVVKLIESKHEVTILGGLNEFVVKFYGPQGTPYEGGVWKVRVDLPDKYPFKSPSIGFMNKIFHPNIDEASGTVCLDVINQTWTALYDLTNIFESFLPQLLAYPNPIDPLNGDAAAMYLHRPEEYKQKIKEYIQKYATEEALKEQEEGTGDSSSESSMSDFSEDEAQDMEL |
| 1854 | sp|P45974|UBP5\_HUMAN | MAELSEEALLSVLPTIRVPKAGDRVHKDECAFSFDTPESEGGLYICMNTFLGFGKQYVERHFNKTGQRVYLHLRRTRRPKEEDPATGTGDPPRKKPTRLAIGVEGGFDLSEEKFELDEDVKIVILPDYLEIARDGLGGLPDIVRDRVTSAVEALLSADSASRKQEVQAWDGEVRQVSKHAFSLKQLDNPARIPPCGWKCSKCDMRENLWLNLTDGSILCGRRYFDGSGGNNHAVEHYRETGYPLAVKLGTITPDGADVYSYDEDDMVLDPSLAEHLSHFGIDMLKMQKTDKTMTELEIDMNQRIGEWELIQESGVPLKPLFGPGYTGIRNLGNSCYLNSVVQVLFSIPDFQRKYVDKLEKIFQNAPTDPTQDFSTQVAKLGHGLLSGEYSKPVPESGDGERVPEQKEVQDGIAPRMFKALIGKGHPEFSTNRQQDAQEFFLHLINMVERNCRSSENPNEVFRFLVEEKIKCLATEKVKYTQRVDYIMQLPVPMDAALNKEELLEYEEKKRQAEEEKMALPELVRAQVPFSSCLEAYGAPEQVDDFWSTALQAKSVAVKTTRFASFPDYLVIQIKKFTFGLDWVPKKLDVSIEMPEELDISQLRGTGLQPGEEELPDIAPPLVTPDEPKGSLGFYGNEDEDSFCSPHFSSPTSPMLDESVIIQLVEMGFPMDACRKAVYYTGNSGAEAAMNWVMSHMDDPDFANPLILPGSSGPGSTSAAADPPPEDCVTTIVSMGFSRDQALKALRATNNSLERAVDWIFSHIDDLDAEAAMDISEGRSAADSISESVPVGPKVRDGPGKYQLFAFISHMGTSTMCGHYVCHIKKEGRWVIYNDQKVCASEKPPKDLGYIYFYQRVAS |
| 1855 | sp|Q86T82|UBP37\_HUMAN | MSPLKIHGPIRIRSMQTGITKWKEGSFEIVEKENKVSLVVHYNTGGIPRIFQLSHNIKNVVLRPSGAKQSRLMLTLQDNSFLSIDKVPSKDAEEMRLFLDAVHQNRLPAAMKPSQGSGSFGAILGSRTSQKETSRQLSYSDNQASAKRGSLETKDDIPFRKVLGNPGRGSIKTVAGSGIARTIPSLTSTSTPLRSGLLENRTEKRKRMISTGSELNEDYPKENDSSSNNKAMTDPSRKYLTSSREKQLSLKQSEENRTSGLLPLQSSSFYGSRAGSKEHSSGGTNLDRTNVSSQTPSAKRSLGFLPQPVPLSVKKLRCNQDYTGWNKPRVPLSSHQQQQLQGFSNLGNTCYMNAILQSLFSLQSFANDLLKQGIPWKKIPLNALIRRFAHLLVKKDICNSETKKDLLKKVKNAISATAERFSGYMQNDAHEFLSQCLDQLKEDMEKLNKTWKTEPVSGEENSPDISATRAYTCPVITNLEFEVQHSIICKACGEIIPKREQFNDLSIDLPRRKKPLPPRSIQDSLDLFFRAEELEYSCEKCGGKCALVRHKFNRLPRVLILHLKRYSFNVALSLNNKIGQQVIIPRYLTLSSHCTENTKPPFTLGWSAHMAISRPLKASQMVNSCITSPSTPSKKFTFKSKSSLALCLDSDSEDELKRSVALSQRLCEMLGNEQQQEDLEKDSKLCPIEPDKSELENSGFDRMSEEELLAAVLEISKRDASPSLSHEDDDKPTSSPDTGFAEDDIQEMPENPDTMETEKPKTITELDPASFTEITKDCDENKENKTPEGSQGEVDWLQQYDMEREREEQELQQALAQSLQEQEAWEQKEDDDLKRATELSLQEFNNSFVDALGSDEDSGNEDVFDMEYTEAEAEELKRNAETGNLPHSYRLISVVSHIGSTSSSGHYISDVYDIKKQAWFTYNDLEVSKIQEAAVQSDRDRSGYIFFYMHKEIFDELLETEKNSQSLSTEVGKTTRQAL |
| 1856 | sp|P39304|ULAD\_ECOLI | MSLPMLQVALDNQTMDSAYETTRLIAEEVDIIEVGTILCVGEGVRAVRDLKALYPHKIVLADAKIADAGKILSRMCFEANADWVTVICCADINTAKGALDVAKEFNGDVQIELTGYWTWEQAQQWRDAGIGQVVYHRSRDAQAAGVAWGEADITAIKRLSDMGFKVTVTGGLALEDLPLFKGIPIHVFIAGRSIRDAASPVEAARQFKRSIAELWG |
| 1857 | sp|Q9P1Q0|VPS54\_HUMAN | MASSHSSSPVPQGSSSDVFFKIEVDPSKHIRPVPSLPDVCPKEPTGDSHSLYVAPSLVTDQHRWTVYHSKVNLPAALNDPRLAKRESDFFTKTWGLDFVDTEVIPSFYLPQISKEHFTVYQQEISQREKIHERCKNICPPKDTFERTLLHTHDKSRTDLEQVPKIFMKPDFALDDSLTFNSVLPWSHFNTAGGKGNRDAASSKLLQEKLSHYLDIVEVNIAHQISLRSEAFFHAMTSQHELQDYLRKTSQAVKMLRDKIAQIDKVMCEGSLHILRLALTRNNCVKVYNKLKLMATVHQTQPTVQVLLSTSEFVGALDLIATTQEVLQQELQGIHSFRHLGSQLCELEKLIDKMMIAEFSTYSHSDLNRPLEDDCQVLEEERLISLVFGLLKQRKLNFLEIYGEKMVITAKNIIKQCVINKVSQTEEIDTDVVVKLADQMRMLNFPQWFDLLKDIFSKFTIFLQRVKATLNIIHSVVLSVLDKNQRTRELEEISQQKNAAKDNSLDTEVAYLIHEGMFISDAFGEGELTPIAVDTTSQRNASPNSEPCSSDSVSEPECTTDSSSSKEHTSSSAIPGGVDIMVSEDMKLTDSELGKLANNIQELLYSASDICHDRAVKFLMSRAKDGFLEKLNSMEFITLSRLMETFILDTEQICGRKSTSLLGALQSQAIKFVNRFHEERKTKLSLLLDNERWKQADVPAEFQDLVDSLSDGKIALPEKKSGATEERKPAEVLIVEGQQYAVVGTVLLLIRIILEYCQCVDNIPSVTTDMLTRLSDLLKYFNSRSCQLVLGAGALQVVGLKTITTKNLALSSRCLQLIVHYIPVIRAHFEARLPPKQYSMLRHFDHITKDYHDHIAEISAKLVAIMDSLFDKLLSKYEVKAPVPSACFRNICKQMTKMHEAIFDLLPEEQTQMLFLRINASYKLHLKKQLSHLNVINDGGPQNGLVTADVAFYTGNLQALKGLKDLDLNMAEIWEQKR |
| 1858 | sp|Q8BFU8|VGLU3\_MOUSE | MPFKAFDTFKEKILKPGKEGVKNAVGDSLGILQRKIDGTNEEEDAIELNEEGRPVQTSRAHRPVCDCSCCGIPKRYICDCSCCGIPKRYIIAVMSGLGFCISFGIRCNLGVAIVEMVNNSTVYVDGKPEIQTAQFNWDPETVGLIHGSFFWGYIVTQIPGGFISNKFAASRVFGAAIFLTSTLNMFIPSAARVHYGCVMGVRILQGLVEGVTYPACHGMWSKWAPPLERSRLATTSFCGSYAGAVVAMPLAGVLVQYIGWASVFYIYGMFGIIWYMFWLLQAYECPAAHPTISNAERTYIETSIGEGANLASLSKFNTPWRRFFTSLPVYAIIVANFCRSWTFYLLLISQPAYFEEVFGFAISKVGLLSAVPHMVMTIVVPIGGQLADYLRSRKILTTTAVRKIMNCGGFGMEATLLLVVGFSHTKGVAISFLVLAVGFSGFAISGFNVNHLDIAPRYASILMGISNGVGTLSGMVCPLIVGAMTKHKTREEWQNVFLIAALVHYSGVIFYGVFASGEKQDWADPENLSEDKCGIIDQDELAEETELNHETFVSPRKKMSYGATTQNCEVQKTEWRQQRESAFDGEEPLSYQAEGDFSETS |
| 1859 | sp|Q05323|VP30\_EBOZM | MEASYERGRPRAARQHSRDGHDHHVRARSSSRENYRGEYRQSRSASQVRVPTVFHKKRVEPLTVPPAPKDICPTLKKGFLCDSSFCKKDHQLESLTDRELLLLIARKTCGSVEQQLNITAPKDSRLANPTADDFQQEEGPKITLLTLIKTAEHWARQDIRTIEDSKLRALLTLCAVMTRKFSKSQLSLLCETHLRREGLGQDQAEPVLEVYQRLHSDKGGSFEAALWQQWDRQSLIMFITAFLNIALQLPCESSAVVVSGLRTLVPQSDNEEASTNPGTCSWSDEGTP |
| 1860 | sp|P40343|VPS27\_YEAST | MSVSTPSELDALIEQATSESIPNGDLDLPIALEISDVLRSRRVNPKDSMRCIKKRILNTADNPNTQLSSWKLTNICVKNGGTPFIKEICSREFMDTMEHVILREDSNEELSELVKTILYELYVAFKNDSQLNYVAKVYDKLISRGIKFPEKLTLSNSPTAMFDSKTPADWIDSDACMICSKKFSLLNRKHHCRSCGGVFCQEHSSNSIPLPDLGIYEPVRVCDSCFEDYDLKRHDDSKKSKKHRHKRKKDRDYSTPEDEEELIRKAIELSLKESRNSASSEPIVPVVESKNEVKRQEIEEEEDPDLKAAIQESLREAEEAKLRSERQKASRQMQPQQPSPQPQPIHSVDLSDEEKDSIYMFASLVEKMKSRPLNEILEDSKLQNLAQRVFASKARLNYALNDKAQKYNTLIEMNGKISEIMNIYDRLLEQQLQSINLSQQYTLPQVPSDPYNYLTENVQNPAESYQTPPLQQLSSHQYKPQQDVSRQQSVKANSSPTTNIDHLKTIDVTPHAQQKPQSHVELAPSDPPYPKEEAEDEGTQAVQDEESSTQESRERPYPVETENGETSINKRPQGITRYDFPTVPARKFVQPESTVPLPASSSEIPIKEERPPSPQEELLIEL |
| 1861 | sp|Q4R4X4|VIME\_MACFA | MTTRSVSSSSYRRMFGGPGTASRPSSSRSYVTTSTRTYSLGSALRPSTSRSLYASSPGGVYATRSSAVRLRSSVPGVRLLQDSVDFSLADAINTEFKNTRTNEKVELQELNDRFANYIDKVRFLEQQNKILLAELEQLKGQGKSRLGDLYEEEMRELRRQVDQLTNDKARVEVERDNLTEDIMRLREKLQEEMLQREEAENTLQSFRQDVDNASLARLDLERKVESLQEEIAFLKKLHEEEIQELQAQIQEQHVQIDVDVSKPDLTAALRDVRQQYESVAAKNLQEAEEWYKSKFADLSEAANRNNDALRQAKQESNEYRRQVQSLTCEVDALKGTNESLERQMREMEENFAVEAANYQDTIGRLQDEIQNMKEEMARHLREYQDLLNVKMALDIEIATYRKLLEGEESRISLPLPNFSSLNLRETNLDSLPLVDTHSKRTLLIKTVETRDGQVINETSQHHDDLE |
| 1862 | sp|Q8VHI5|VITRN\_MOUSE | MGIVVPTMKASVIEVLLVLLVTGIHSNKETPKKTKRPKLTVPQINCDVKAGKIINPEFMVKCPAGCQDPKYHVYGTGVYASYSSVCGAAIHSGVLDNSGGKILVRKVAGQSGYKGSYSNGVQSLSLPRWRESFIVAESKPQKGVAYPSTLTYSSSKTAAAKAGETTKAYEKPSIPGTTIQPVTLTQAQATPVAEVTHRSTSKPFAASVTNSPRPQPVGHRSQEMEEVDGWKPGPVLLDSGFVPKEELSTQSSEPVPQGDPNCKIDLSFLIDGSTSIGKRRFRIQKQFLADVVQALDIGPAGPLVGVVQYGDNPATQFNLKTHMNSQDLKTAIEKITQRGGLSNVGRAISFVTKTFFSKANGNRGGAPNVAVVMVDGWPTDKVEEVSRVARESGINVFFITVEGAAERDIQHVVEPGFASKAVCRTNGFYSFNVQSWLSLHKTVQPLVKRVCDTDRLACSKTCLNSADIGFVIDGSSSMGTSNFRTVLQFVANLSKEFEISDTDTRVGAVQYTYEQRLEFGFDKYNSKADILSAIRRVGYWSGGTSTGAAIQYALEQLFKKSKPNKRKVMIIITDGRSYDDVRIPAMAAYQKGVITYAIGIAWAAQDELEVMATHPAKDHSFFVDDFDNLYKIAPRIIQNICTEFNSQPRN |
| 1863 | sp|Q9WTP9|VAX2\_MOUSE | MGDGGAERDRGPKRREEPGGRSGRHGEHRGAEDLRADTGSASPREIAGTSASSPAGSRESGGDSDGQQALGETDHCRRILVRDAKGTIREIVLPKGLDLDRPKRTRTSFTAEQLYRLEMEFQRCQYVVGRERTELARQLNLSETQVKVWFQNRRTKQKKDQSRDLEKRASSSASEAFATSNVLRLLEQGRLLSVPRAPSLLALTPGLPGLPASHRGTSLVDPRNSSPRLNPMPSASASSPLPPPLPAICFSSAPLLDLPAGYKLGSSAFEPYSRLEQQKVGSPGQSDKKADI |
| 1864 | sp|Q54MH2|VINC\_DICDI | MDEVLEMIADAVSSLVVAITDSEEKNTLFGDMVPGVELIQQAVNGMAEAAEETVSLIDEEFIGQLESTSKQLKNSAGQLYVHAVRAREDPWNRVPQKDAIKAAKQILQNVVLLVLIEEQSNIKVLVNIAKKAAEGVRRIDEIENIKQLDVMIGDVNQLQNELVKRSQRRSEGSHNPELRSKLEDIATMVNILSEQHQASARDVCRNPREETLRSKRSELSSKLLSAIDDLIYTIKLIFENNTKFVDLAFKWKPVRTMAEDEVTRASAVLIDNLRTLPKSIEAGNGPAAAREIVNAANLQISNAIIVANRCQDPVKKKMLLKQIEELKKLTPMLISAMKPVLENPNDQEAQKHLESVIYSTQKASEALATAVVSSPAEIVAASGVSLARDLDSLEEAIASGDKKRAQVILSHIPSAIDKHIELANALLETITDPGQRHQIKQSIERLQTLKPRIIENANRAIANPNDHEARKNLSSDIKEAKKAIGQISQPYEVVSALNTKIHNDLDSLIKCIDEGGPDMQVKGVQYAKDIANSIKKQIEAAEAYAQTITDPDRKKQVLDSIEQLKKLTPQLLEAIRACLANPDDKEARKRLDDVVRRVKEASSNLSQVIQPTADELKEEKRKRNEEIARIEAEEKAKARALLKAAELARIEAEEEKKRLAIIEEEKKRLAAEEEERKRAPKLVVPEGPVNKAVFGAAADVAQALESKVRDGTPLGILVQLSDEIAQQMALIASFAMNGDVKGMITAARKIADTIKQVQTQAKHIADNCTDPRLKQNVLTYCDCGGNFSTQLKILCAVKSNDFNDPTAEEQLVTCAKGLSGAVINLVKSSEAASIKQRKVPQQ |
| 1865 | sp|D3J162|VPY\_MEDTR | MDRLIKLDPSNIVLIRVEEGQKCLGKITLNNVMYTMPVAFRIQPLIKTRYTIKPQSGIISPLASLVIEITYHPPQQQGSNNLPHSFPFSDDSFLLHSVLAPGAAIKEPSSMFDSVPSDWFTTKKKQVFIDSAIKVMFVGSQILTQLVEDGNSMDDIREVLEKSDPLWESVNSKDSQGQTLLHLAISKTRPDLVQLILEFKPDIEAINSVGSTPLEAASSSGESLIVELLLAHKANTEGSESSVFRPIHHASREGHMEILRLLLLKGARVDSLTKDGNTSLHLAVEEKRRDCARLLLANGARTDVRNMREGDTPLHIAAANGDENMVKLLLHKGATKYVRNKLGKTAFDVAAENGHSRLFDALRLGDNLCAAARKGEVRTIQKVLESGGVINGRDQNGWTSLHRAAFKGRMDAVRFLVEKGIDLDAKDEDGYTALHCAAESGHADVTEFLVKKGADVEARTNKGVSALQIVESLNYVGITRILVNGGASREGLGEKPPSAPSKIPFGRKVESGSVMTMKKKMSSRTRALRGSFDHSMPLAVL |
| 1866 | sp|P40337|VHL\_HUMAN | MPRRAENWDEAEVGAEEAGVEEYGPEEDGGEESGAEESGPEESGPEELGAEEEMEAGRPRPVLRSVNSREPSQVIFCNRSPRVVLPVWLNFDGEPQPYPTLPPGTGRRIHSYRGHLWLFRDAGTHDGLLVNQTELFVPSLNVDGQPIFANITLPVYTLKERCLQVVRSLVKPENYRRLDIVRSLYEDLEDHPNVQKDLERLTQERIAHQRMGD |
| 1867 | sp|P62069|UBP46\_MOUSE | MTVRNIASICNMGTNASALEKDIGPEQFPINEHYFGLVNFGNTCYCNSVLQALYFCRPFRENVLAYKAQQKKKENLLTCLADLFHSIATQKKKVGVIPPKKFISRLRKENDLFDNYMQQDAHEFLNYLLNTIADILQEEKKQEKQNGKLKNGNMNEPAENNKPELTWVHEIFQGTLTNETRCLNCETVSSKDEDFLDLSVDVEQNTSITHCLRDFSNTETLCSEQKYYCETCCSKQEAQKRMRVKKLPMILALHLKRFKYMEQLHRYTKLSYRVVFPLELRLFNTSSDAVNLDRMYDLVAVVVHCGSGPNRGHYITIVKSHGFWLLFDDDIVEKIDAQAIEEFYGLTSDISKNSESGYILFYQSRE |
| 1868 | sp|Q54NL4|VMP1\_DICDI | MGKSNTIVLSNEKDIQLRIQQLEERKEKRKNVKLLFSPIKTTKYFLYILKDTLVSGIRYFQTRPFLLFFIALFASLTFIAVYVPGEHQKYMGKYSDLISDCIWWVGLGVLSSIGLGTGLHTFVLYLGPHIAKVTLAATEWNSVNFNVYGANSFIQPATAMIGGVSFWMILQKVQWAALFWGAGTAIGELPPYFVARTARLKGLKLEQEKKLKEQQEKPIDEKDQPKKGLLERLSEKVPALIGNLGFFGILAFASIPNPLFDLAGITCGHFLVPFWKFFGATFIGKAVVKAHIQACFVILAFNMETLTMVISFIEDKIPFLKNKIQPILEKERQKLNSTVSANSPKSLVGLAWDCVLFLMISYFLMSIVDSSVQEYLIEKDNKKIELLKSKLEKQQPKETKKTK |
| 1869 | sp|Q5TJ65|VASP\_DICDI | MSETAIFNATGQVFTYSPQTRNWVPSSNVPATLQMYFNSGANTYRVIGRAGDDPNNFLINFAVKSEVVYSRASEIFHQFTDQRTHFGINFTSKQDADTFGGGFENVLRSLKGGPQQPPPQVPKPQPQQPPQPQQPPQRPPSTVIAKPVAPQAPVAPPQAPAAAPQAPAPPAAPPAPPKPPGPPPPPPAPKPPAAGGGTGRNALLGSIENFSKGGLKKTVTVDKSAGVPTKTTPSANSAASNAGSEPSSGGSTPAPAPKSSGGGGGGDLMAEVMAKRAKMKAAASQPKEESSAPTPAPTPAPTPAPTPSSTSFKPPQSFSKPATKTAAANKPPSPSLSAPLPSTVANEDLQSLKEEILTEVRKEIQKAKDEILEAIRASQH |
| 1870 | sp|O95292|VAPB\_HUMAN | MAKVEQVLSLEPQHELKFRGPFTDVVTTNLKLGNPTDRNVCFKVKTTAPRRYCVRPNSGIIDAGASINVSVMLQPFDYDPNEKSKHKFMVQSMFAPTDTSDMEAVWKEAKPEDLMDSKLRCVFELPAENDKPHDVEINKIISTTASKTETPIVSKSLSSSLDDTEVKKVMEECKRLQGEVQRLREENKQFKEEDGLRMRKTVQSNSPISALAPTGKEEGLSTRLLALVVLFFIVGVIIGKIAL |
| 1871 | sp|P0A8F8|UVRB\_ECOLI | MSKPFKLNSAFKPSGDQPEAIRRLEEGLEDGLAHQTLLGVTGSGKTFTIANVIADLQRPTMVLAPNKTLAAQLYGEMKEFFPENAVEYFVSYYDYYQPEAYVPSSDTFIEKDASVNEHIEQMRLSATKAMLERRDVVVVASVSAIYGLGDPDLYLKMMLHLTVGMIIDQRAILRRLAELQYARNDQAFQRGTFRVRGEVIDIFPAESDDIALRVELFDEEVERLSLFDPLTGQIVSTIPRFTIYPKTHYVTPRERIVQAMEEIKEELAARRKVLLENNKLLEEQRLTQRTQFDLEMMNELGYCSGIENYSRFLSGRGPGEPPPTLFDYLPADGLLVVDESHVTIPQIGGMYRGDRARKETLVEYGFRLPSALDNRPLKFEEFEALAPQTIYVSATPGNYELEKSGGDVVDQVVRPTGLLDPIIEVRPVATQVDDLLSEIRQRAAINERVLVTTLTKRMAEDLTEYLEEHGERVRYLHSDIDTVERMEIIRDLRLGEFDVLVGINLLREGLDMPEVSLVAILDADKEGFLRSERSLIQTIGRAARNVNGKAILYGDKITPSMAKAIGETERRREKQQKYNEEHGITPQGLNKKVVDILALGQNIAKTKAKGRGKSRPIVEPDNVPMDMSPKALQQKIHELEGLMMQHAQNLEFEEAAQIRDQLHQLRELFIAAS |
| 1872 | sp|O15342|VA0E1\_HUMAN | MAYHGLTVPLIVMSVFWGFVGFLVPWFIPKGPNRGVIITMLVTCSVCCYLFWLIAILAQLNPLFGPQLKNETIWYLKYHWP |
| 1873 | sp|Q2R2D5|XA21\_ORYSJ | MARSPTSVMISSLLLLLLIGPASSDDAAAAAAARTSTGGVAGDELALLSFKSSLLHQGGLSLASWNTSGHGQHCTWVGVVCGRRRRRHPHRVVKLLLRSSNLSGIISPSLGNLSFLRELDLSDNYLSGEIPPELSRLSRLQLLELSGNSIQGSIPAAIGACTKLTSLDLSHNQLRGMIPREIGASLKHLSNLYLHTNGLSGEIPSALGNLTSLQYFDLSCNRLSGAIPSSLGQLSSSLLTMNLRQNNLSGMIPNSIWNLSSLRAFSVSENKLGGMIPTNAFKTLHLLEVIDMGTNRFYGKIPASVANASHLTQLQIDGNLFSGIITSGFGRLRNLTTLYLWRNLFQTREQEDWGFISDLTNCSKLQTLDLGENNLGGVLPNSFSNLSTSLSFLALDLNKITGSIPKDIGNLIGLQHLYLCNNNFRGSLPSSLGRLRNLGILVAYENNLSGSIPLAIGNLTELNILLLGTNKFSGWIPYTLSNLTNLLSLGLSTNNLSGPIPSELFNIQTLSIMINVSKNNLEGSIPQEIGHLKNLVEFHAESNRLSGKIPNTLGDCQLLRYLYLQNNLLSGSIPSALGQLKGLETLDLSSNNLSGQIPTSLADITMLHSLNLSFNSFMGEVPTIGAFADASGISIQGNAKLCGGIPDLHLPRCCPLLENRKHFPVLPISVSLVAALAILSSLYLLITWHKRTKKGAPSRTSMKGHPLVSYSQLVKATDGFAPTNLLGSGSFGSVYKGKLNIQDHVAVKVLKLENPKALKSFTAECEALRNMRHRNLVKIVTICSSIDNRGNDFKAIVYDFMPSGSLEDWIHPETNDPADQRHLNLHRRVTILLDVACALDYLHRHGPEPVVHCDVKSSNVLLDSDMVAHVGDFGLARILVDGTSLIQQSTSSMGFRGTIGYAAPEYGVGHIASTHGDIYSYGILVLEIVTGKRPTDSTFRPDLGLRQYVELGLHGRVTDVVDTKLILDSENWLNSTNNSPCRRITECIVSLLRLGLSCSQVLPLSRTPTGDIIDELNAIKQNLSGLFPVCEGASLEF |
| 1874 | sp|B2RUY7|VWC2L\_HUMAN | MALHIHEACILLLVIPGLVTSAAISHEDYPADEGDQISSNDNLIFDDYRGKGCVDDSGFVYKLGERFFPGHSNCPCVCALDGPVCDQPECPKIHPKCTKVEHNGCCPECKEVKNFCEYHGKNYKILEEFKPSPCEWCRCEPSNEVHCVVADCAVPECVNPVYEPEQCCPVCKNGPNCFAGTTIIPAGIEVKVDECNICHCHNGDWWKPAQCSKRECQGKQTV |
| 1875 | sp|Q9UPY5|XCT\_HUMAN | MVRKPVVSTISKGGYLQGNVNGRLPSLGNKEPPGQEKVQLKRKVTLLRGVSIIIGTIIGAGIFISPKGVLQNTGSVGMSLTIWTVCGVLSLFGALSYAELGTTIKKSGGHYTYILEVFGPLPAFVRVWVELLIIRPAATAVISLAFGRYILEPFFIQCEIPELAIKLITAVGITVVMVLNSMSVSWSARIQIFLTFCKLTAILIIIVPGVMQLIKGQTQNFKDAFSGRDSSITRLPLAFYYGMYAYAGWFYLNFVTEEVENPEKTIPLAICISMAIVTIGYVLTNVAYFTTINAEELLLSNAVAVTFSERLLGNFSLAVPIFVALSCFGSMNGGVFAVSRLFYVASREGHLPEILSMIHVRKHTPLPAVIVLHPLTMIMLFSGDLDSLLNFLSFARWLFIGLAVAGLIYLRYKCPDMHRPFKVPLFIPALFSFTCLFMVALSLYSDPFSTGIGFVITLTGVPAYYLFIIWDKKPRWFRIMSEKITRTLQIILEVVPEEDKL |
| 1876 | sp|Q8NEZ3|WDR19\_HUMAN | MKRIFSLLEKTWLGAPIQFAWQKTSGNYLAVTGADYIVKIFDRHGQKRSEINLPGNCVAMDWDKDGDVLAVIAEKSSCIYLWDANTNKTSQLDNGMRDQMSFLLWSKVGSFLAVGTVKGNLLIYNHQTSRKIPVLGKHTKRITCGCWNAENLLALGGEDKMITVSNQEGDTIRQTQVRSEPSNMQFFLMKMDDRTSAAESMISVVLGKKTLFFLNLNEPDNPADLEFQQDFGNIVCYNWYGDGRIMIGFSCGHFVVISTHTGELGQEIFQARNHKDNLTSIAVSQTLNKVATCGDNCIKIQDLVDLKDMYVILNLDEENKGLGTLSWTDDGQLLALSTQRGSLHVFLTKLPILGDACSTRIAYLTSLLEVTVANPVEGELPITVSVDVEPNFVAVGLYHLAVGMNNRAWFYVLGENAVKKLKDMEYLGTVASICLHSDYAAALFEGKVQLHLIESEILDAQEERETRLFPAVDDKCRILCHALTSDFLIYGTDTGVVQYFYIEDWQFVNDYRHPVSVKKIFPDPNGTRLVFIDEKSDGFVYCPVNDATYEIPDFSPTIKGVLWENWPMDKGVFIAYDDDKVYTYVFHKDTIQGAKVILAGSTKVPFAHKPLLLYNGELTCQTQSGKVNNIYLSTHGFLSNLKDTGPDELRPMLAQNLMLKRFSDAWEMCRILNDEAAWNELARACLHHMEVEFAIRVYRRIGNVGIVMSLEQIKGIEDYNLLAGHLAMFTNDYNLAQDLYLASSCPIAALEMRRDLQHWDSALQLAKHLAPDQIPFISKEYAIQLEFAGDYVNALAHYEKGITGDNKEHDEACLAGVAQMSIRMGDIRRGVNQALKHPSRVLKRDCGAILENMKQFSEAAQLYEKGLYYDKAASVYIRSKNWAKVGDLLPHVSSPKIHLQYAKAKEADGRYKEAVVAYENAKQWQSVIRIYLDHLNNPEKAVNIVRETQSLDGAKMVARFFLQLGDYGSAIQFLVMSKCNNEAFTLAQQHNKMEIYADIIGSEDTTNEDYQSIALYFEGEKRYLQAGKFFLLCGQYSRALKHFLKCPSSEDNVAIEMAIETVGQAKDELLTNQLIDHLLGENDGMPKDAKYLFRLYMALKQYREAAQTAIIIAREEQSAGNYRNAHDVLFSMYAELKSQKIKIPSEMATNLMILHSYILVKIHVKNGDHMKGARMLIRVANNISKFPSHIVPILTSTVIECHRAGLKNSAFSFAAMLMRPEYRSKIDAKYKKKIEGMVRRPDISEIEEATTPCPFCKFLLPECELLCPGCKNSIPYCIATGRHMLKDDWTVCPHCDFPALYSELKIMLNTESTCPMCSERLNAAQLKKISDCTQYLRTEEEL |
| 1877 | sp|Q8C2E7|WASC5\_MOUSE | MLDFLAENNLCGQAILRIVSCGNAIIAEVLRLSEFIPAVFLLKDRADQQRYGDIIFDFSYFKGPEFWESKLEAKPELQDLDEEFRENNIEIVTRFYLAFQSVHKYIVDLNRYLDDLNEGVYIQQTLETVLLSEDGKQLLCEALYLYGVMLLVIDQKIEGEVRERMLVSYYRYSAARSSADSNMDDICKLLRSTGYSSQPGAKRPPNYPESYFQRVPINETFISMVIGRLRSDDIYNQVSAYPLPEHRSTALANQAAMLYVILYFEPSILHTHQAKMREIVDKYFPDNWVISIYMGITVNLADAWEPYKAAKTALNNTLDLANVKEQASRYASVSDRVRAQVQQFLKEGYLREEVLLDNIPRLLNCLRDCNVAIRWLMLHTADSACDPNNKRLRQIKDQILADSRYNPKILFQLLLDTAQFEFILKEMFKQMLSEKQSKWEHYKKEGSERMTELADVFSGVKPLTRVEKNENLQAWFREISKQILSLNYDDSTAAGRKTVQLIQALEEVQEFHQLESNLQVCQFLADTRKFLHQMIRTINIKEEVLITVQIIGDLSFAWQLIDSFTSIMQESIRVNPSMVTKLRATFLKLASALDLPLLRINQANSPDLLSVSQYYSGELVSYVRKVLQIIPESMFTSLLKIIKLQTHDIMEVPTRLDKDKLRDYAQLGPRYEVAKLTHAISIFTEGILMMKTTLVGIIKVDPKQLLEDGIRKELVKRVAFALHRGLIFNPRAKPSELMPKLKELGATMDGFHRSFEYIQDYVSIYGLKIWQEEVSRIINYNVEQECNNFLRTKIQDWQSMYQSTHIPIPKFAPVDESITFIGRLCREILRITDPKMTCYIDQLNTWYDVKTHQEVTSSRLFSEIQTTLGTFGLNGLDRLLCFMIVKELQNFLSMFQKIILKERTVQETLKMLMSAVNPLKSIVANSSKVYLSAITKTQKIWSAYLEAIMKVGQMQILRQQIANELNSSCRFDSRHLAAALDNLNKALLADIEAHYRDPSLPYPKEDNTLLYEITAYLEAAGIHNPLNKIYITTKRLPYFPIVNFLFLIAQLPKLQYNKNLGMVCRKPADPVDWPPLVLGLLTLLKQFHSRYTEQFLALIGQFIRSTMEQCTSQKMPEMPADAVGALLFLEDYVRYTKLPRRVAEAHVPNFIFDEFRTVL |
| 1878 | sp|Q9XI90|WRKY4\_ARATH | MSEKEEAPSTSKSTGAPSRPTLSLPPRPFSEMFFNGGVGFSPGPMTLVSNMFPDSDEFRSFSQLLAGAMSSPATAAAAAAAATASDYQRLGEGTNSSSGDVDPRFKQNRPTGLMISQSQSPSMFTVPPGLSPAMLLDSPSFLGLFSPVQGSYGMTHQQALAQVTAQAVQANANMQPQTEYPPPSQVQSFSSGQAQIPTSAPLPAQRETSDVTIIEHRSQQPLNVDKPADDGYNWRKYGQKQVKGSEFPRSYYKCTNPGCPVKKKVERSLDGQVTEIIYKGQHNHEPPQNTKRGNKDNTANINGSSINNNRGSSELGASQFQTNSSNKTKREQHEAVSQATTTEHLSEASDGEEVGNGETDVREKDENEPDPKRRSTEVRISEPAPAASHRTVTEPRIIVQTTSEVDLLDDGYRWRKYGQKVVKGNPYPRSYYKCTTPGCGVRKHVERAATDPKAVVTTYEGKHNHDLPAAKSSSHAAAAAQLRPDNRPGGLANLNQQQQQQPVARLRLKEEQTT |
| 1879 | sp|P24806|XTH24\_ARATH | MSPFKIFFFTTLLVAAFSVSAADFNTDVNVAWGNGRGKILNNGQLLTLSLDKSSGSGFQSKTEYLFGKIDMQIKLVPGNSAGTVTTFYLKSEGSTWDEIDFEFLGNMSGDPYTLHTNVYTQGKGDKEQQFHLWFDPTANFHTYSILWNPQRIILTVDDTPIREFKNYESLGVLFPKNKPMRMYASLWNADDWATRGGLVKTDWSKAPFMASYRNIKIDSKPNSNWYTQEMDSTSQARLKWVQKNYMIYNYCTDHRRFPQGAPKECTTSS |
| 1880 | sp|Q9EPK2|XRP2\_MOUSE | MGCCFTKRRKSEKAEGEEEQPKLYSWDQREKVDPKDYMFSGLKDETVGRLPGKVAGQQFVIQDCENCNIYIFDHSATITIDDCTNCVIFLGPVKGSVFFRNCRDCKCTLACQQFRVRDCRKLEVFLCCATQPIIESSTNIKFGCFQWYYPELAAQFKDAGLSIFNNIWSHVHDFTPVSGELNWSLLPENAVVQDYVPIPMTEEFKAVRISTEANRSIVPVSRGQRQKYSDESCLVVLFADDYTTANARKLIDEMVGKGFSLVQTKEMSMKTEDAQRVFQEKASDFLLLLNKGPVIALEFNGDDAVQECHLIVNGMFNGTKMFVSEKKETASGDVDSFYNFAEIQMGI |
| 1881 | sp|Q38857|XTH22\_ARATH | MAITYLLPLFLSLIITSSVSANFQRDVEITWGDGRGQIKNNGELLTLSLDKSSGSGFQSKNEYLFGKVSMQMKLVPGNSAGTVTTLYLKSPGTTWDEIDFEFLGNSSGEPYTLHTNVYTQGKGDKEQQFKLWFDPTANFHTYTILWNPQRIIFTVDGTPIREFKNMESLGTLFPKNKPMRMYSSLWNADDWATRGGLVKTDWSKAPFTASYRGFQQEACVWSNGKSSCPNASKQGTTTGSWLSQELDSTAQQRMRWVQRNYMIYNYCTDAKRFPQGLPKECLAA |
| 1882 | sp|O70283|WNT2B\_MOUSE | MLKLQGEDEAAQLAPRRARVPVPRPTAPDVSPSSARLGLACLLLLLLLTLPARVDTSWWYIGALGARVICDNIPGLVSRQRQLCQRYPDIMRSVGEGAREWIRECQHQFRHHRWNCTTLDRDHTVFGRAMLRSSREAAFVYAISSAGVVHAITRACSQGELSVCSCDPYTRGRHHDQRGDFDWGGCSDNIHYGVRFAKAFVDAKEKRLKDARALMNLHNNRCGRTAVRRFLKLECKCHGVSGSCTLRTCWRALSDFRRTGDYLRRRYDGAVQVTATQDGANFTAARQGYRHATRTDLVYFDNSPDYCVLDKAAGSLGTAGRVCSKTSKGTDGCEIMCCGRGYDTTRVTRVTQCECKFHWCCAVRCKECRNTVDVHTCKAPKKAEWLDQT |
| 1883 | sp|Q6RFH5|WDR74\_HUMAN | MAAAAARWNHVWVGTETGILKGVNLQRKQAANFTAGGQPRREEAVSALCWGTGGETQMLVGCADRTVKHFSTEDGIFQGQRHCPGGEGMFRGLAQADGTLITCVDSGILRVWHDKDKDTSSDPLLELRVGPGVCRMRQDPAHPHVVATGGKENALKIWDLQGSEEPVFRAKNVRNDWLDLRVPIWDQDIQFLPGSQKLVTCTGYHQVRVYDPASPQRRPVLETTYGEYPLTAMTLTPGGNSVIVGNTHGQLAEIDLRQGRLLGCLKGLAGSVRGLQCHPSKPLLASCGLDRVLRIHRIQNPRGLEHKVYLKSQLNCLLLSGRDNWEDEPQEPQEPNKVPLEDTETDELWASLEAAAKRKLSGLEQPQGALQTRRRKKKRPGSTSP |
| 1884 | sp|J7I4B7|WBDD\_ECOLX | MTKDLNTLVSELPEIYQTIFGHPEWDGDAARDCNQRLDLITEQYDNLSRALGRPLNVLDLGCAQGFFSLSLASKGATIVGIDFQQENINVCRALAEENPDFAAEFRVGRIEEVIAALEEGEFDLAIGLSVFHHIVHLHGIDEVKRLLSRLADVTQAVILELAVKEEPFYWGVSQPDDPRELIEQCAFYRLIGEFDTHLSPVPRPMYLVSNHRVLINDFNQPFQHWQNQPYAGAGLAHKRSRRYFFGEDYVCKFFYYDMPHGILTAEESQRNKYELHNEIKFLTQPPAGFDAPAVLAHGENAQSGWLVMEKLPGRLLSDMLAAGEEIDREKILGSLLRSLAALEKQGFWHDDVRPWNVMVDARQHARLIDFGSIVTTPQDCSWPTNLVQSFFVFVNELFAENKSWNGFWRSAPVHPFNLPQPWSNWLYAVWQEPVERWNFVLLLALFEKKAKLPSAEQQRGATEQWIIAQETVLLELQSRVRNESAGSEALRGQIHTLEQQMAQLQSAQDAFVEKAQQQVEVSHELTWLGENMEQLAALLQTAQAHAQADVQPELPPETAELLQRLEAANREIHHLSNENQQLRQEIEKIHRSRSWRMTKGYRYLGLQIHLLRQYGFVQRCKHFIKRVLRFVFSFMRKHPQVKHTAVNGLHKLGLYQPAYRLYRRMNPLPHSQYQADAQILSQTELQVMHPELLPPEVYEIYLKLTKNK |
| 1885 | sp|P41221|WNT5A\_HUMAN | MKKSIGILSPGVALGMAGSAMSSKFFLVALAIFFSFAQVVIEANSWWSLGMNNPVQMSEVYIIGAQPLCSQLAGLSQGQKKLCHLYQDHMQYIGEGAKTGIKECQYQFRHRRWNCSTVDNTSVFGRVMQIGSRETAFTYAVSAAGVVNAMSRACREGELSTCGCSRAARPKDLPRDWLWGGCGDNIDYGYRFAKEFVDARERERIHAKGSYESARILMNLHNNEAGRRTVYNLADVACKCHGVSGSCSLKTCWLQLADFRKVGDALKEKYDSAAAMRLNSRGKLVQVNSRFNSPTTQDLVYIDPSPDYCVRNESTGSLGTQGRLCNKTSEGMDGCELMCCGRGYDQFKTVQTERCHCKFHWCCYVKCKKCTEIVDQFVCK |
| 1886 | sp|Q876L8|XYL1\_HYPJE | MASPTLKLNSGYDMPQVGFGLWKVDNAVCADTVYNAIKAGYRLFDGACDYGNEKECGEGVARAIKDGLVKREDLFIVSKLWQTFHDEDKVEPITRRQLADWQIDYFDLFLVHFPAALEYVDPSVRYPPGWFYDGKSEVRWSKTTTLQQTWGAMERLVDKGLARSIGVSNYQAQSVYDALIYARIKPATLQIEHHPYLQQPDLVSLAQTEGIVVTAYSSFGPTGFMELDMPRAKSVAPLMDSPVIKALADKHRRTPAQVLLRWATQRGIAVIPKTSRPEVMAQNLDNTSFDLDSEDLAKIADMDLNIRFNKPTNYFSANKLYLFG |
| 1887 | sp|P9WF39|WHIB4\_MYCTU | MSGTRPAARRTNLTAAQNVVRSVDAEERIAWVSKALCRTTDPDELFVRGAAQRKAAVICRHCPVMQECAADALDNKVEFGVWGGMTERQRRALLKQHPEVVSWSDYLEKRKRRTGTAG |
| 1888 | sp|Q66JT0|WEE2\_MOUSE | MADTETDQGLNKKLSFSFCEEDTESEGQMTAQDIGGAQSQKPGREESEELEGPVPPTRDELHTSLSRDKESPGPDLWKSVSGPPKCPETPVLHSKSKLPVPTNFSTPKNSLGQPEISLLEKLSSRSSRHMRLTPASLMDEKTSLSLVNINPFTPETYRKLLLQSKGKRKTRDYLEETGEEESKSVQWLPAKRSILQETNMASRYEKEFFEIEKIGVGEFGTVYKCIKRLDGCIYAIKRSAKSFSGLSNELDLHEVYAHAVLGHHPHVVRYYSSWIEDDHVVIQNEYCNGGSLQAAISENTASNNHFQEPKLKDILLQISLGLKYIHNSGMVHLDIKPSNIFICHKMQCDSPVGPEEAESEADWFLNASVMYKIGDLGHATSISKPKVEEGDTRFLANEILQENYQHLPKADIFALGLTIAVAAGAESLPINGDMWHHIRKGNFPEISQELSDDFYGLLKNMIHPAPKERPSAAALARSRILWPFLEKTDELQKQLNLEKSKTATLKRELKKARHIQTPQREVHHCYYQICKGSRHLLVGGRRKAPSSFTRGTSSV |
| 1889 | sp|O00744|WN10B\_HUMAN | MLEEPRPRPPPSGLAGLLFLALCSRALSNEILGLKLPGEPPLTANTVCLTLSGLSKRQLGLCLRNPDVTASALQGLHIAVHECQHQLRDQRWNCSALEGGGRLPHHSAILKRGFRESAFSFSMLAAGVMHAVATACSLGKLVSCGCGWKGSGEQDRLRAKLLQLQALSRGKSFPHSLPSPGPGSSPSPGPQDTWEWGGCNHDMDFGEKFSRDFLDSREAPRDIQARMRIHNNRVGRQVVTENLKRKCKCHGTSGSCQFKTCWRAAPEFRAVGAALRERLGRAIFIDTHNRNSGAFQPRLRPRRLSGELVYFEKSPDFCERDPTMGSPGTRGRACNKTSRLLDGCGSLCCGRGHNVLRQTRVERCHCRFHWCCYVLCDECKVTEWVNVCK |
| 1890 | sp|Q80XP9|WNK3\_MOUSE | MATDSGEPASTEDSEKPDGVSFENRAARAVAPLTVEARIKEKYSTFSASGENIERKRFFRKSVEMTEDDKVAESSRRDERKAATNISRVDKVPTNVLRGGQEVKYEQCSKATSESSKDCFKEKTEKEMEEEAEMKAVATSPSGRFLKFDIELGRGAFKTVYKGLDTETWVEVAWCELQDRKLTKAEQQRFKEEAEMLKGLQHPNIVRFYDSWESTLKGKKCIVLVTELMTSGTLKTYLKRFKVMKPKVLRSWCRQILKGLQFLHTRTPPIIHRDLKCDNIFITGPTGSVKIGDLGLATLMRTSFAKSVIGTPEFMAPEMYEEHYDESVDVYAFGMCMLEMATSEYPYSECQNAAQIYRKVTSGIKPASFNKVTDPEVKEIIEGCIRQNKSERLSIKDLLNHAFFAEDTGLRVELAEEDDCSNSSLALRLWVEDPKKLKGKHKDNEAIEFSFNLEADTPEEVAYEMVKSGFFHESDSKAVAKSIRDRVTLIKKIREKKPAGCLEERRDSQCKYVRNVLPQQQTATLQPTPGPHTAAEYEETEVDQHVRQQFLQGKPQQQSSSVRGDTSSEPTAGPVLHSDTSSHPTVAYSSNQTTSSQEQPKLTQSPVLPVVQGQSSVMPIYAAGVGVVSQSQISPLTIQKVSQIKPVSQPIGAEQQATLQNPDFVRSLNQDVTSVKENTNNPDTPSGNGKQDRNKQRRASCPRPEKGTKFQLTVLQVSVSGDNMVECQLETHNNKMVTFKFDVDGDAPEDIADYMVEDNFVLENEKEKFVEELRAIVGQAQEILHVHSAVEKSIGVDSVALESNSNQTGSSEQVLINSASTQTSNESAPQSSPVGRWRFCINQTIKNREAQSPPSLQPSMAMVPGLHPFPSSRNTSNQAISQNTVFTIENNPGHRELFTSKLDHKDVVDGKIGEHASIETEQSSISYQVEDDRQIMTPATDNSNYSAALVCPVPGECEALTSQAGMFMPTYPNQQAAVLADVHIAYPGESVPIGGNAALTSVLVSSDQKPQSLSVQQPTIDAEFISKEGETTVNTETSSPKAVIATQTPGFEPAVILPATILESDGERPPKMEFADNRIKTLDEKLRNLLYQEHSISSICPESQKDTQSIDSPFSSSAEDILSYSMPEVIAISHCGIQDSPAQSPNFQQTGSKILSNVAASQPAHISVFKKDLNVITSVPSELCLHEMSPDASLPGDPEAYPAAVSSDGTIHLQTGGGYFGLSFTCPSLKNPISRKSWTRKLKSWAYRLRQSTSFFKRSKVRQVETEDKRSAIASDPIPLTREFSSDTRALSRCKAMSGSFQRGRFQVITVPQQQPVKMMSFGKDHRPPFNKTTVQSSEQALTFAEAAVSQLIEVEPAMPTHKASVSSRKLRTLYETFKEDKGDPEQGDIVSYSTACETSVSSVATEKNVTSTTEVSVQSGSEPLDKEKNESTPGKQTCTNEFSATLAGNRKSVTKTRPEGDQYLPLREEQAYAQTQNSLFYSPSSPMSSDNESEIEDEDLKVELQRLREKHIQEVVSLQTQQNKELQELYERLRATKDNKAQSSEVPLSPASPRRPRSFKSKLRSRPQSMTHSDNLVVKDALGVESNTVSCQQSPASKKGMFTDDLHKLVDDWTRETVGHFPSKPSLNQLKQSQQKSEAENWNKSCESTPSTMGYTSNWISSLSQIRGAAPTSLPQGLPLPSFHGPLASYGMPHVCQYNAVGAAGYPVQWVGISGPAQQSVVLPTQSGGLFQPGMNLQSFPAPPVQNPASIPPGPK |
| 1891 | sp|Q12491|YB21B\_YEAST | MESQQLHQNPHSLHGSAYASVTSKEVSSNQDPLAVSASNLPEFDRDSTKVNSQQETTPGTSAVPENHHHVSPQPASVPPPQNGQYQQHGMMTPNKAMASNWAHYQQPSMMTCSHYQTSPAYYQPDPHYPLPQYIPPLSTSSPDPIDSQDQHSEVPQAKTKVRNNVLPPHTLTSEENFYTWVKFYIRFLKNSNLGDIIPNDQGEIKRQMTYEEHAYIYNTFQAFAPFHLLPTWVKQILEINYADILTVLCKSVSKMQTNNQELKDWIALANLEYDGSTSADTFEITVSTIIQRLKENNINVSDRLACQLILKGLSGDFKYLRNQYRTKTNMKLSQLFAEIQLIYDENKIMNLNKPSQYKQHSEYKNVSRTSPNTTNTKVTTRNYHRTNSSKPRAAKAHNIATSSKFSRVNNDHINESTVSSQYLSDDNELSLGQQQKESKPTHTIDSNDELPDHLLIDSGASQTLVRSAHYLHHATPNSEINIVDAQKQDIPINAIGNLHFNFQNGTKTSIKALHTPNIAYDLLSLSELANQNITACFTRNTLERSDGTVLAPIVKHGDFYWLSKKYLIPSHISKLTINNVNKSKSVNKYPYPLIHRMLGHANFRSIQKSLKKNAVTYLKESDIEWSNASTYQCPDCLIGKSTKHRHVKGSRLKYQESYEPFQYLHTDIFGPVHHLPKSAPSYFISFTDEKTRFQWVYPLHDRREESILNVFTSILAFIKNQFNARVLVIQMDRGSEYTNKTLHKFFTNRGITACYTTTADSRAHGVAERLNRTLLNDCRTLLHCSGLPNHLWFSAVEFSTIIRNSLVSPKNDKSARQHAGLAGLDITTILPFGQPVIVNNHNPDSKIHPRGIPGYALHPSRNSYGYIIYLPSLKKTVDTTNYVILQDNQSKLDQFNYDTLTFDDDLNRLTAHNQSFIEQNETEQSYDQNTESDHDYQSEIEINSDPLVNDFSSQSMNPLQLDHEPVQKVRALKEVDADISEYNILPSPVRSRTPHIINKESTEMGGTIESDTTSPRHSSTFTARNQKRPGSPNDMIDLTSQDRVNYELENIKTTRLGGTEEPYIQRNSDTNIKYRTTNSTPSIDDRSPDSDSTTPIISIETKAACDNTPSIDTDPPEYRSSDHATPNIMPDKSSKNVTADSILDDLPLPDLTNKSPTDTSDVSKDIPHIHSRQTNSSLGGMDDSNVLTTTKSKKRSLEDNETEIEVSRDTWNNKNMRSLEPPRSKKRINLIAAIKGVKSIKPVRTTLRYDEAITYNEDNKEKDRYIEAYHKEINQLLRMNTWDTNKYYDRNDIDPKKVINSMFIFNKKRDGTHKARFVARGDIQHPDTYDSDMQSNTVHHYALMTSLSIALDNDYYITQLDISSAYLYADIKEELYIRPPPHLGLNDKLLRLRKSLYGLKQSGANWYETIKSYLINCCDMQEVRGWSCVFKNSQVTICLFVDDMILFSKDLNANEKIITTLKKQYDTKIINLGESDNEIQYDILGLEIKYQRSKYMKLGMEKSLTEKLPKLNVPLNPKGKKLSAPGQPGHYIDQDELEIDEDEYKEKVHEMQKLIGLASYVGYKFRFDLLYYINTLAQHILFPSRQVLDMTYELIQFMWDTRDKQLIWHKNKPTKPDNKLVAISDASYGNQPYYKSQIGNIFLLNGKVIGGKSTKASLTCTSTTEAEIHAVSEAIPLLNNLSHLVQELNKKPIIKGLLTDSRSTISIIKSTNEEKFRNRFFGTKAMRLRDEVSGNNLYVYYIETKKNIADVMTKPLPIKTFKLLTNKWIH |
| 1892 | sp|P0CX63|YF21B\_YEAST | MESQQLHQNPHSLHGSAYASVTSKEVPSNQDPLAVSASNLPEFDRDSTKVNSQQETTPGTSAVPENHHHVSPQPASVPPPQNGQYQQHGMMTPNKAMASNWAHYQQPSMMTCSHYQTSPAYYQPDPHYPLPQYIPPLSTSSPDPIDSQNQHSEVPQAETKVRNNVLPPHTLTSEENFSTWVKFYIRFLKNSNLGDIIPNDQGEIKSQMTYEEHAYIYNTFQAFAPFHLLPTWVKQILEINYADILTVLCKSVSKMQTNNQELKDWIALANLEYDGSTSADTFEITVSTIIQRLKENNINVSDRLACQLILKGLSGDFKYLRNQYRTKTNMKLSQLFAEIQLIYDENKIMNLNKPSQYKQHSEYKNVSRTSPNTTNTKVTTRNYHRTNSSKPRAAKAHNIATSSKFSRVNNDHINESTVSSQYLSDDNELSLGQQQKESKPTHTIDSNDELPDHLLIDSGASQTLVRSAHYLHHATPNSEINIVDAQKQDIPINAIGNLHFNFQNGTKTSIKALHTPNIAYDLLSLSELANQNITACFTRNTLERSDGTVLAPIVKHGDFYWLSKKYLIPSHISKLTINNVNKSKSVNKYPYPLIHRMLGHANFRSIQKSLKKNAVTYLKESDIEWSNASTYQCPDCLIGKSTKHRHVKGSRLKYQESYEPFQYLHTDIFGPVHHLPKSAPSYFISFTDEKTRFQWVYPLHDRREESILNVFTSILAFIKNQFNARVLVIQMDRGSEYTNKTLHKFFTNRGITACYTTTADSRAHGVAERLNRTLLNDCRTLLHCSGLPNHLWFSAVEFSTIIRNSLVSPKNDKSARQHAGLAGLDITTILPFGQPVIVNNHNPDSKIHPRGIPGYALHPSRNSYGYIIYLPSLKKTVDTTNYVILQDKQSKLDQFNYDTLTFDDDLNRLTAHNQSFIEQNETEQSYDQNTESDHDYQSEIEINSDPLVNDFSSQSINPLQLDKEPVQKVRAPKEVDADISEYNILPSTIRSRTPHIINKESTEMGGTVESDTTSPRHSSTFTARNQNRPGSTNEMIDLTSQDRVNYGLENIKTTRLGGTEEPYIQRNSDTNIKYRTTNSTPSIDDRSSNSESTTPIISIETKAVCDNTPSIDTDPPEYRSSDHATPNIMPDKSSKNVTADSILDDLPLPDLTHKSPTDTSDVSKDIPHIHSRQTNSSLGGMDDSNVLTTTKSKKRSLEDNETEIEVSRDTWNNKNMRSLEPPRSKKRINLIAAIKGVKSIKPVRTTLRYDEAITYNKDNKEKDRYVEAYHKEISQLLKMNTWDTNKYYDRNDIDPKKVINSMFIFNKKRDGTHKARFVARGDIQHPDTYDSDMQSNTVHHYALMTSLSIALDNDYYITQLDISSAYLYADIKEELYIRPPPHLGLNDKLLRLRKSLYGLKQSGANWYETIKSYLINCCDMQEVRGWSCVFKNSQVTICLFVDDMILFSKDLNANKKIITTLKKQYDTKIINLGESDNEIQYDILGLEIKYQRSKYMKLGMEKSLTEKLPKLNVPLNPKGKKLRAPGQPGHYIDQDELEIDEDEYKEKVHEMQKLIGLASYVGYKFRFDLLYYINTLAQHILFPSRQVLDMTYELIQFMWDTRDKQLIWHKNKPTKPDNKLVAISDASYGNQPYYKSQIGNIFLLNGKVIGGKSTKASLTCTSTTEAEIHAVSEAIPLLNNLSHLVQELNKKPIIKGLLTDSRSTISIIKSTNEEKFRNRFFGTKAMRLRDEVSGNNLYVYYIETKKNIADVMTKPLPIKTFKLLTNKWIH |
| 1893 | sp|O75800|ZMY10\_HUMAN | MGDLELLLPGEAEVLVRGLRSFPLREMGSEGWNQQHENLEKLNMQAILDATVSQGEPIQELLVTHGKVPTLVEELIAVEMWKQKVFPVFCRVEDFKPQNTFPIYMVVHHEASIINLLETVFFHKEVCESAEDTVLDLVDYCHRKLTLLVAQSGCGGPPEGEGSQDSNPMQELQKQAELMEFEIALKALSVLRYITDCVDSLSLSTLSRMLSTHNLPCLLVELLEHSPWSRREGGKLQQFEGSRWHTVAPSEQQKLSKLDGQVWIALYNLLLSPEAQARYCLTSFAKGRLLKLRAFLTDTLLDQLPNLAHLQSFLAHLTLTETQPPKKDLVLEQIPEIWERLERENRGKWQAIAKHQLQHVFSPSEQDLRLQARRWAETYRLDVLEAVAPERPRCAYCSAEASKRCSRCQNEWYCCRECQVKHWEKHGKTCVLAAQGDRAK |
| 1894 | sp|Q14AK4|ZDH11\_MOUSE | MKEMNICGINKNWVLPEAQENNVKKFLPRPLSRVNGWSPPLHSFQAISWITYLAMSIVTFGIFIPFLPYSWKYAANIVMGGVFIFHLIVHLIAITIDPADTNVRLKKDYTQPVPAFDRSKHTHVIQNQYCHLCEVTASKKAKHCSACNKCVSGFDHHCKWLNNCVGRRNYWFFFWSVASAAVGILGVMIILCYICIQYFVNPDELRTDPLYKEIISENTWLLFLSLWPVPVKTPIVLSIAVMALLLAIASFVMLGHLLIFHLYLITKNMSTFDYLMKTRFKKNLHPAEEKELPLQKKGDLPQEKSDNWAWPKSPPRVGSQKFPVSTLSPKSSVCFVASPPKICHSED |
| 1895 | sp|Q94BZ1|ZIFL1\_ARATH | MAEEYAECLLEKNFHEDCSGCKVDQMKRLRRGFPFWELFTVWIIVLCTALPISSLFPFLYFMIDDFNIAKKEEDIGFYAGFVGCSFMLGRAFTSVAWGLVADRYGRKPVILIGTASVVVFNTLFGLSLNFWMAIITRFCLGSFNGLLGPIKAYAMEIFRDEYQGLALSAVSTAWGIGLIIGPAIGGFLAQPAKQYPSLFSQDSIFGKFPFFLPCLAISVFAFLVTIVSSRIPETLHNHKFNDDESYDALKDLSDDPESNKVAERNGKSSLLNNWPLISSIIVYCVFSLHDMAYTEIFSLWANSPRKYGGLGYSTADVGSVLAFSGFGLLIFQLSLYSYAERLLGPIIVTRISGSLAMVVLSCYPLIAKLSGLALTVTVTSASVAKSVLGTSAITGLFILQNKAVRQDQRGAANGIAMTAMSLFKAIGPAAAGIIFSWSEKRQGAAFLPGTQMVFFILNVVLALGVVLTFKPFLAETQQ |
| 1896 | sp|F4JS25|SRFR1\_ARATH | MATATATSERFELAKHCSSRNWSKAIRVLDSLLAKESSILDICNRAFCYNQLELHKHVIKDCDKALLLEPFAIQAFILKGRALLALGRKQEAVLVLEQGYKSALQQTADVKQLLELEELLKDARREIDGILKSHATESPQETPAYHSEKSDEKSDKLDNHESGASSNGNSHESSSELGEQSKIVSFSKVASKASKQSDGNSDLCNGSVYKEKENGKCGSQINGYYESCKPCNGSDLHDNLAESSDRFGELSINGNKISIKSSKMSHKAEARCGISDESRKNKKYTIARISGTHSISVDFRLSRGIAQVNEGNYTKAISIFDKVLKEEPTYPEALIGRGTAYAFQRELESAIADFTKAIQSNPAASEAWKRRGQARAALGEYVEAVEDLTKALVFEPNSPDVLHERGIVNFKSKDFTAAVKDLSICLKQEKDNKSAYTYLGLAFASLGEYKKAEEAHLKSIQLDSNYLEAWLHLAQFYQELADHCKALECIEQVLQVDNRVWKAYHLRGLVFHGLGEHRKAIQELSIGLSIENTIECLYLRGSCYHAVGEYRDAVKDYDATVDVELDAVEKFVLQCLAFYQKELALYTASKVSSEFLCFDIDGDIDPMFKEYWCKRLHPKNVCEKVYRQPPLRESLKKGKLKKQDLAITKQKANILRFADLIGKRIQYDCPGFLPNKRQHRMAGLAVIEIAQKVSKAWRIEWRNSTKGTTKNGKKNRRRERTNILSQNRGGAGCSSSSFSETSTGYASLEDRSSGRSILSWQDVYSPAVRWRQISEPCDPVVWVNKLSEEFNSGFGSHTPMVLGQAKVVRYFPNYERTLTLAKSIIKDKLSVRSKKDKVIDLSKDEKIEKIMRAETCDELHNIVGEDFWVATWCDSTGSEGKRLEGTRITCIQKPGRLGYDFSIRTPCTPARWSDFDEEMTSAWEALCTAYCGENYGSTELDALETVRDAILRMTYYWYNFMPLARGTAVTGFVVLLGLLLAANMEFTETIPKGLQIDWEAILNVEPGSFVDSVKSWLYPSLKINTSWRDHTEISSAFSTTGAVVAALSTYND |
| 1897 | sp|Q2TAY7|SMU1\_HUMAN | MSIEIESSDVIRLIMQYLKENSLHRALATLQEETTVSLNTVDSIESFVADINSGHWDTVLQAIQSLKLPDKTLIDLYEQVVLELIELRELGAARSLLRQTDPMIMLKQTQPERYIHLENLLARSYFDPREAYPDGSSKEKRRAAIAQALAGEVSVVPPSRLMALLGQALKWQQHQGLLPPGMTIDLFRGKAAVKDVEEEKFPTQLSRHIKFGQKSHVECARFSPDGQYLVTGSVDGFIEVWNFTTGKIRKDLKYQAQDNFMMMDDAVLCMCFSRDTEMLATGAQDGKIKVWKIQSGQCLRRFERAHSKGVTCLSFSKDSSQILSASFDQTIRIHGLKSGKTLKEFRGHSSFVNEATFTQDGHYIISASSDGTVKIWNMKTTECSNTFKSLGSTAGTDITVNSVILLPKNPEHFVVCNRSNTVVIMNMQGQIVRSFSSGKREGGDFVCCALSPRGEWIYCVGEDFVLYCFSTVTGKLERTLTVHEKDVIGIAHHPHQNLIATYSEDGLLKLWKP |
| 1898 | sp|Q96T83|SL9A7\_HUMAN | MEPGDAARPGSGRATGAPPPRLLLLPLLLGWGLRVAAAASASSSGAAAEDSSAMEELATEKEAEESHRQDSVSLLTFILLLTLTILTIWLFKHRRVRFLHETGLAMIYGLIVGVILRYGTPATSGRDKSLSCTQEDRAFSTLLVNVSGKFFEYTLKGEISPGKINSVEQNDMLRKVTFDPEVFFNILLPPIIFHAGYSLKKRHFFRNLGSILAYAFLGTAVSCFIIGNLMYGVVKLMKIMGQLSDKFYYTDCLFFGAIISATDPVTVLAIFNELHADVDLYALLFGESVLNDAVAIVLSSSIVAYQPAGLNTHAFDAAAFFKSVGIFLGIFSGSFTMGAVTGVNANVTKFTKLHCFPLLETALFFLMSWSTFLLAEACGFTGVVAVLFCGITQAHYTYNNLSVESRSRTKQLFEVLHFLAENFIFSYMGLALFTFQKHVFSPIFIIGAFVAIFLGRAAHIYPLSFFLNLGRRHKIGWNFQHMMMFSGLRGAMAFALAIRDTASYARQMMFTTTLLIVFFTVWIIGGGTTPMLSWLNIRVGVEEPSEEDQNEHHWQYFRVGVDPDQDPPPNNDSFQVLQGDGPDSARGNRTKQESAWIFRLWYSFDHNYLKPILTHSGPPLTTTLPAWCGLLARCLTSPQVYDNQEPLREEDSDFILTEGDLTLTYGDSTVTANGSSSSHTASTSLEGSRRTKSSSEEVLERDLGMGDQKVSSRGTRLVFPLEDNA |
| 1899 | sp|Q9Z266|SNAPN\_MOUSE | MAAAGSAAVSGAGTPVAGPTGRDLFAEGLLEFLRPAVQQLDSHVHAVRESQVELREQIDNLATELCRINEDQKVALDLDPYVKKLLNARRRVVLVNNILQNAQERLRRLNHSVAKETARRRAMLDSGVYPPGSPSK |
| 1900 | sp|Q12824|SNF5\_HUMAN | MMMMALSKTFGQKPVKFQLEDDGEFYMIGSEVGNYLRMFRGSLYKRYPSLWRRLATVEERKKIVASSHGKKTKPNTKDHGYTTLATSVTLLKASEVEEILDGNDEKYKAVSISTEPPTYLREQKAKRNSQWVPTLPNSSHHLDAVPCSTTINRNRMGRDKKRTFPLCFDDHDPAVIHENASQPEVLVPIRLDMEIDGQKLRDAFTWNMNEKLMTPEMFSEILCDDLDLNPLTFVPAIASAIRQQIESYPTDSILEDQSDQRVIIKLNIHVGNISLVDQFEWDMSEKENSPEKFALKLCSELGLGGEFVTTIAYSIRGQLSWHQKTYAFSENPLPTVEIAIRNTGDADQWCPLLETLTDAEMEKKIRDQDRNTRRMRRLANTAPAW |
| 1901 | sp|O94316|SN114\_SCHPO | MMEEDLYDEFGNYIGPENEEDEEELFPQAPSPTIAQVPSFEEVIPDEELEDVERAEEMALSHLEPQNAVVLHEDKQYYPSAEEVYGSNVDIMVQEQDTQPLSQPIIEPIRHKRIAIETTNVPDTVYKKEFLFGLLTGTDDVRSFIVAGHLHHGKSALLDLLVYYTHPDTKPPKRRSLRYTDTHYLERERVMSIKSTPLTLAVSDMKGKTFAFQCIDTPGHVDFVDEVAAPMAISDGVVLVVDVIEGVMINTTRIIKHAILHDMPIVLVLNKVDRLILELRLPPNDAYHKLRHVIDEVNDNICQISKDLKYRVSPELGNVCFASCDLGYCFTLSSFAKLYIDRHGGIDVDLFSKRLWGDIYFDSKTRKFAKQSLDGSGVRSFVHFILEPLYKLHTLTISDEAEKLKKHLSSFQIYLKPKDYLLDPKPLLQLICASFFGFPVGFVNAVTRHIPSPRENAARKASQSYIGPINSSIGKAILEMSREESAPLVMHVTKLYNTVDANNFYAFARVYSGQVKKGQKVKVLGENYSLEDEEDMVVAHIAEICVPCARYRLHVDGAVAGMLVLLGGVDNSISKTATIVSDNLKDDPYIFRPIAHMSESVFKVAVEPHNPSELPKLLDGLRKTNKSYPLSITKVEESGEHTIFGTGEMYMDCLLYDLRTLYSEIEIRVSDPVARFCETAVDTSSIKCFSDTPNKKNRITMVVEPLEKGISNDIENGKVNINWPQKRISEFFQKNYDWDLLASRSIWAFGPDDRGTNILRDDTLSTDVDKNVLNSVKEYIKQGFQWGTREGPLCDETIRNVNFRLMDVVLAPEQIYRGGGQIIPTARRVCYSSFLTASPRLMEPVYMVEVHAPADSLPIIYDLLTRRRGHVLQDIPRPGSPLYLVRALIPVIDSCGFETDLRVHTQGQAMCQMVFDHWQVVPGDPLDKSIKPKPLEPARGSDLARDFLIKTRRRKGLVEDVSTTRYFDQEMIDSLKEAGVVLSL |
| 1902 | sp|A2AQ25|SKT\_MOUSE | MEESEGQKCEPNLPPSGDSRQMPQQGRSNLHVTSQEDAACRRPRERLSNGNARAQVSKPARNIPRRHTLGGPRSSKEILGMQPSEMDRKREAFLEHLKQKYPHHATAIMGHQERLRDQTKSPKLSHSPQPPNLGDPVEHLSETSGDSLEAMSEGEVPSPFARGSRTRASLPVVRSANQTKERSLGVLYLQYGDETKQLRMPNEVTSTDTIRALFVSAFPQQLTMKMLESPSVAIYIKDDSRNVYYELNDVRNIQDRSLLKVYNKDPSHAFNHMTKAVNGDMRMQREIVYARGDGLVAPRPGSVAHPPHVIPNSPPSTPVPHSLPPSPSRIPYGGSRPMAIPGNATIPRDRLSSLPVSRSISPSPSAILERRDVKPDEDMSSKNLVMFRNEGFYADPYLYHEGRMSIASSHGGHPLDVPDHVIAYHRTAIRSASAYCSPSLQAEMHMEQSLYRQKSRKYPDSHLPTLGSKTPPASPHRVGDLRMIDLHPHLNTHGPPHTLQPDRASPSRQSFKKEPGTLVYIEKPRNTSGLSSLVDLGPPLVEKQGFAYSTTTIPKDRETRERMQAMEKQIASLTGLVQSALFKGPITSSSKEASSEKMVKATANRNQADGAGTAHVSAGKVLGSVEFSLPPSQPLPAGTSPIHTSLLDMRRNVAELRLQLQQMRQLQLQNQEILRAMMKKAELEISNKVKETMKRLEDPVQRQRTLVEQERQKYLHEEERIVKKLCELEDFVEDLKKDSSSTGRVVTLKDVEDGAFLLRQVGEAVATLKGEFPTLQNKMRAVLRIEVEAVRFLKEEPHKLDSLLKRVRSMTDVLTMLRRHVTDGLLKGTDASQAAQYVAMEKATAAEVLKHQEETAHAPGQPLHCSTGSPGDVKSEVVPLSTMTVHHVQSSPVVMQPSQHSSALMNPAQNLPGGTRPHTASPPAITQEVTSAQSAPGPQSPQTPVNGSSMQSLFIEEIHSVSAKNRAVSIEKAEKKWEEKRQNLEHYNGKEFEKLLEEAQANIMKSIPNLEMPPASSPVSKGDAAGDKLELSEDSPNSEQELDKIGGKSPPPPPPPPRRSYLPGSGLTTTRSGDVVYTGRSMSKVSSEDPGPTPQTRATKCPPEEPASAWAPSPPPVPAPSSKEEEEEEEEGDKIMAELQAFQKCSFMDVNPNSHAEQSRANSHLKDTRAGATAPPKEKKNLEFYHEDVRKSDVECENGPQVESQKVTAGALRPSGPPKWERVMVDSISDTSRTSECRADTFTEENATPNKSLFRDSRNYSQKNVPKVSFSSSGLNSLEGEINKGPNVSGLQCAIPDLENQKLNFGKTKEIGQQGQENADKSHIPLPTRSAEFSIHDVKTQDQDVPVTGYGQVVLRSKVGRHANMNMNEDGESTPSSPSEEHTATDNIAFMITKTAVQVLSSGEVHDIVSQKGQDVQTVNIDGRKETASQHEGTEGEEPVVCLDKKPVIIIFDEPMDIRSAYKRLSTIFEECDEELERMLTEEKIEEEEEDENEDSGVRTSSQMSCEQVDSRSDRMGQKAETQSQPHVLSAELLTPGVQGVRKAEQRKLSSADSPDSGNKCGMVDDQFESPKKKFKFKFPKKQLAALTQAIRTGTKTGKKTLQVVVYEEEEEDGTLKQHKEAKRFEITRSQPEDALKTMARRQEQLSPEGTLPASRTDEIRKSTYRTLDSLEQTIKQLENTISEMSPRALVDTSCSSNRDCGASLPHMAQEVSPRSLLVLDEVPPAPEPPTSISPASRKGSSTTPQTSRMPVPMTSKNRPGSLDKASKQSKLQDPRQYRQANGSAKKAGGDCKPTSPSLPASKIPALSPSSGKSSSLPSASGDSSNLPNAPATKPSIASTPLSPQAGRSAHSASLIPSVSNGSLKFQSPPHAGKGHHHLSFALQTQNGRAAPTTSSSSSPPSPASPTSLNQGARGIRTIHTPSLASYKAQNGSSSKATPSTAKETS |
| 1903 | sp|P01248|SOMA\_PIG | MAAGPRTSALLAFALLCLPWTREVGAFPAMPLSSLFANAVLRAQHLHQLAADTYKEFERAYIPEGQRYSIQNAQAAFCFSETIPAPTGKDEAQQRSDVELLRFSLLLIQSWLGPVQFLSRVFTNSLVFGTSDRVYEKLKDLEEGIQALMRELEDGSPRAGQILKQTYDKFDTNLRSDDALLKNYGLLSCFKKDLHKAETYLRVMKCRRFVESSCAF |
| 1904 | sp|Q00772|SLT2\_YEAST | MADKIERHTFKVFNQDFSVDKRFQLIKEIGHGAYGIVCSARFAEAAEDTTVAIKKVTNVFSKTLLCKRSLRELKLLRHFRGHKNITCLYDMDIVFYPDGSINGLYLYEELMECDMHQIIKSGQPLTDAHYQSFTYQILCGLKYIHSADVLHRDLKPGNLLVNADCQLKICDFGLARGYSENPVENSQFLTEYVATRWYRAPEIMLSYQGYTKAIDVWSAGCILAEFLGGKPIFKGKDYVNQLNQILQVLGTPPDETLRRIGSKNVQDYIHQLGFIPKVPFVNLYPNANSQALDLLEQMLAFDPQKRITVDEALEHPYLSIWHDPADEPVCSEKFEFSFESVNDMEDLKQMVIQEVQDFRLFVRQPLLEEQRQLQLQQQQQQQQQQQQQQQQPSDVDNGNAAASEENYPKQMATSNSVAPQQESFGIHSQNLPRHDADFPPRPQESMMEMRPATGNTADIPPQNDNGTLLDLEKELEFGLDRKYF |
| 1905 | sp|Q9SU40|SKU5\_ARATH | MDLFKILLLVFFVNISFCFAADPYSFYNFEVSYITASPLGVPQQVIAINGKFPGPTINVTTNENLVVNVRNKLDEGLLLHWNGIQQRRVSWQDGVLGTNCPIPPKWNWTYEFQVKDQIGSFFYFPSLHFQRASGGFGSFVVNPRAIIPVPFSTPDGDITVTIGDWYIRNHTALRKALDDGKDLGMPDGVLINGKGPYRYNDTLVADGIDFETITVHPGKTYRLRVSNVGISTSLNFRIQGHNLVLAESEGSYTVQQNYTSLDIHVGQSYSFLVTMDQNASSDYYIVASARVVNETIWRRVTGVGILKYTNSKGKAKGQLPPGPQDEFDKTFSMNQARSIRWNVSASGARPNPQGSFKYGSINVTDVYVLRNMPPVTISGKRRTTLNGISFKNPSTPIRLADKLKVKDVYKLDFPKRPLTGPAKVATSIINGTYRGFMEVVLQNNDTKMQSYHMSGYAFFVVGMDYGEWTENSRGTYNKWDGIARSTIQVYPGAWSAILISLDNPGAWNLRTENLDSWYLGQETYVRVVNPDENNKTEFGHPDNVLYCGALSKLQKPQKVSSSASKSIGFTSLSMVVMALVMMMMLQH |
| 1906 | sp|Q8N300|SVBP\_HUMAN | MDPPARKEKTKVKESVSRVEKAKQKSAQQELKQRQRAEIYALNRVMTELEQQQFDEFCKQMQPPGE |
| 1907 | sp|P70483|STRN\_RAT | MDEQAGPGVFFSNNHPGAGGAKGLGPLAEAAAAGDGAAAAGAARAQYSLPGILHFLQHEWARFEVERAQWEVERAELQAQIAFLQGERKGQENLKKDLVRRIKMLEYALKQERAKYHKLKYGTELNQGDMKPPSYDSDEGNETEVQPQQNSQFMWKQGRQLLRQYLQEVGYTDTILDVKSKRVRALLGFSSDVTDREDDKNQDSVINGTEAEVKETAMIGKSELTDSASVLDNFKFLENAAADFSDEDEDEDIDGREKSVIDTSTIVRKKPLPDTSEDRDTKEALKEFDFLVASEEGDNESRSAGDGTDWEKEDQCLTPERWNVDQGVITRLKEQYKKERKGKKGVKRPNRSKLQDMLANLRDVDELPSLQPSVGSPSRPSSSRLPEQDISRADEVEALTFPPSSGKSFIMGADEALESELGLGELAGLTVANEADSLAYDIANNKDALRKTWNPKFTLRSHFDGIRALAFHPIEPVLITASEDHTLKMWNLQKTAPAKKSTSLDVEPIYTFRAHKGPVLCVVMSSNGEQCYSGGTDGLIQSWSTTNPNVDPYDSYDPSVLRGPLLGHTDAVWGLAYSAAHQRLLSCSADGTLRLWTTTEVAPALTVFNDNQELGIPASVDLVSSDPSHMVASFSKGYTSIFNMETQQRILTLESNVDSTASSSCQINRVISHPTLPISITAHEDRHIKFYDNNTGKLIHSMVAHLEAVTSLAVDPNGLYLMSGSHDCSIRLWNLESKTCIQEFTAHRKKFEESIHDVAFHPSKCYIASAGADALAKVFV |
| 1908 | sp|H2KZU7|SVH2\_CAEEL | MVLGSSQSSAKELTTQSSIFRFLVLLLCFTSATGGQINGKLLNGNGVFVSRDELQNKNVLGVITGFDLLVVATHSRFQVFENNEERRTVGHVSLDMHPRTKFLELKLFSKSEIFYCDESSCGLCTYSGVTSSCSTFMLNGDEPKIQEILSSSAVKIENLGQIMLAISFKNEEDPDNPRTMILRYNAQDTGTVIPTAYHADSSFIHNNHALTGFEREGFVYFVMTASQIFEPEVFLHDQSNNKVTVTKVIRFCATDQTADLASKISILVGCDQEFRNISSRGETAVYDHANDLINIVMFNHTSMNHLMCRFKMANIEKRFKTIWSTCQETSFSGSTAKTTRCKYPQIFDQMKVKKGCLTYSRLDDESSPTLCVRYGRGDALDNCQLHTAKSNSYRYGWLEDYNVLQGELMMRIPYPFFGIAESLITDGKSYFAAVSGEFDMSDVLRFSASESADIRPHWRTNISVVGKFSITKTKENQLLYTTVEGLQSLDISCKGLYPNCQTLRQGGWEDPLECSWCADDNAQRTITSSEVSSCKNNLKHECPPSMRWIHKYNNNSGFTAVVDGFRALKNPKLNACGTNCVVTVVDSSSIQCDTNPDEVIGDSCKQVFLSGMIGDKNYSFPFDYQQADRGTQTDVKNSQVDDKKGSSPGWKIAIAIISVMTIILIVAIIVYYMRNRFPRIKTHVRPPIGQRIENEYDMGHMAGRQAQLAINGDNYVKVFRSMRPDLKVDFKNLRVDKLDPIGQGHYGVVYKAMYSPSKSLEEKVVCKYLKEGKISEFYEEARTMSEFDHPNILKLIGVALDDSSHLPIIITEYMAKGDLKSFIENVENTIKMRDLFEFAFDIAKGMNYMHSKKFIHRDLACRNCLLDEHLRVKIADFGLCRKVDIETELYVQMHERDLPVRWFPPEISEQGFGITSDIWSFGVVIWELFTRGSTPYSNMASWILILPWLKESETNRLRKPPYCPEKLYTDVMLACWKANPAERPQFSDLVTIIPNVVKYMEGYDRSQLQAGYERVSSRFLSLSRHDPAFPIYQNEMPNTPLLANCQNDTNDSKTLAELPSDSPSTSTAIPQSTPYQLLSECSETSV |
| 1909 | sp|P02808|STAT\_HUMAN | MKFLVFAFILALMVSMIGADSSEEKFLRRIGRFGYGYGPYQPVPEQPLYPQPYQPQYQQYTF |
| 1910 | sp|Q8IYB8|SUV3\_HUMAN | MSFSRALLWARLPAGRQAGHRAAICSALRPHFGPFPGVLGQVSVLATASSSASGGSKIPNTSLFVPLTVKPQGPSADGDVGAELTRPLDKNEVKKVLDKFYKRKEIQKLGADYGLDARLFHQAFISFRNYIMQSHSLDVDIHIVLNDICFGAAHADDLFPFFLRHAKQIFPVLDCKDDLRKISDLRIPPNWYPDARAMQRKIIFHSGPTNSGKTYHAIQKYFSAKSGVYCGPLKLLAHEIFEKSNAAGVPCDLVTGEERVTVQPNGKQASHVSCTVEMCSVTTPYEVAVIDEIQMIRDPARGWAWTRALLGLCAEEVHLCGEPAAIDLVMELMYTTGEEVEVRDYKRLTPISVLDHALESLDNLRPGDCIVCFSKNDIYSVSRQIEIRGLESAVIYGSLPPGTKLAQAKKFNDPNDPCKILVATDAIGMGLNLSIRRIIFYSLIKPSINEKGERELEPITTSQALQIAGRAGRFSSRFKEGEVTTMNHEDLSLLKEILKRPVDPIRAAGLHPTAEQIEMFAYHLPDATLSNLIDIFVDFSQVDGQYFVCNMDDFKFSAELIQHIPLSLRVRYVFCTAPINKKQPFVCSSLLQFARQYSRNEPLTFAWLRRYIKWPLLPPKNIKDLMDLEAVHDVLDLYLWLSYRFMDMFPDASLIRDLQKELDGIIQDGVHNITKLIKMSETHKLLNLEGFPSGSQSRLSGTLKSQARRTRGTKALGSKATEPPSPDAGELSLASRLVQQGLLTPDMLKQLEKEWMTQQTEHNKEKTESGTHPKGTRRKKKEPDSD |
| 1911 | sp|P32856|STX2\_HUMAN | MRDRLPDLTACRKNDDGDTVVVVEKDHFMDDFFHQVEEIRNSIDKITQYVEEVKKNHSIILSAPNPEGKIKEELEDLNKEIKKTANKIRAKLKAIEQSFDQDESGNRTSVDLRIRRTQHSVLSRKFVEAMAEYNEAQTLFRERSKGRIQRQLEITGRTTTDDELEEMLESGKPSIFTSDIISDSQITRQALNEIESRHKDIMKLETSIRELHEMFMDMAMFVETQGEMINNIERNVMNATDYVEHAKEETKKAIKYQSKARRKKWIIIAVSVVLVAIIALIIGLSVGK |
| 1912 | sp|Q84W65|SUFE1\_ARATH | MAAAMSSSCCASSLRLIPFKRTLFSSIHYPAKTLLLRPLKPSEVPSFRRTIITFQKISTGIVPPPSASSSPSSYGDLQPIEELPPKLQEIVKLFQSVQEPKAKYEQLMFYGKNLTPLDSQFKTRENKVEGCVSQVWVRAFFDEERNVVYEADSDSVLTKGLAALLVKGLSGRPVPEILRITPDFAVLLGLQQSLSPSRNNGLLNMLKLMQKKALHLEVKGEEDSSSGESSESSFVSIPETKDEANVPEVDLESKPDLVEDLGTEKIDDSESGSNVVALGSRGMRIREKLEKELDPVELEVEDVSYQHAGHAAVRGSAGDDGETHFNLRIVSDAFQGKSLVKRHRLIYDLLQDELKSGLHALSIVAKTPAEV |
| 1913 | sp|Q9NX95|SYBU\_HUMAN | MGPLRESKKEHRVQHHDKEISRSRIPRLILRPHMPQQQHKVSPASESPFSEEESREFNPSSSGRSARTVSSNSFCSDDTGCPSSQSVSPVKTPSDAGNSPIGFCPGSDEGFTRKKCTIGMVGEGSIQSSRYKKESKSGLVKPGSEADFSSSSSTGSISAPEVHMSTAGSKRSSSSRNRGPHGRSNGASSHKPGSSPSSPREKDLLSMLCRNQLSPVNIHPSYAPSSPSSSNSGSYKGSDCSPIMRRSGRYMSCGENHGVRPPNPEQYLTPLQQKEVTVRHLKTKLKESERRLHERESEIVELKSQLARMREDWIEEECHRVEAQLALKEARKEIKQLKQVIETMRSSLADKDKGIQKYFVDINIQNKKLESLLQSMEMAHSGSLRDELCLDFPCDSPEKSLTLNPPLDTMADGLSLEEQVTGEGADRELLVGDSIANSTDLFDEIVTATTTESGDLELVHSTPGANVLELLPIVMGQEEGSVVVERAVQTDVVPYSPAISELIQSVLQKLQDPCPSSLASPDESEPDSMESFPESLSALVVDLTPRNPNSAILLSPVETPYANVDAEVHANRLMRELDFAACVEERLDGVIPLARGGVVRQYWSSSFLVDLLAVAAPVVPTVLWAFSTQRGGTDPVYNIGALLRGCCVVALHSLRRTAFRIKT |
| 1914 | sp|P49891|ST1E1\_MOUSE | METSMPEYYEVFGEFRGVLMDKRFTKYWEDVEMFLARPDDLVIATYPKSGTTWISEVVYMIYKEGDVEKCKEDAIFNRIPYLECRNEDLINGIKQLKEKESPRIVKTHLPPKLLPASFWEKNCKMIYLCRNAKDVAVSYYYFLLMITSYPNPKSFSEFVEKFMQGQVPYGSWYDHVKAWWEKSKNSRVLFMFYEDMKEDIRREVVKLIEFLERKPSAELVDRIIQHTSFQEMKNNPSTNYTMMPEEMMNQKVSPFMRKGIIGDWKNHFPEALRERFDEHYKQQMKDCTVKFRMEL |
| 1915 | sp|Q9WV89|STXB4\_MOUSE | MSDGTASARSSSPLDRDPAFRVITVTKETGLGLKILGGINRNEGPLVYIHEVIPGGDCYKDGRLKPGDQLVSINKESMIGVSFEEAKSIITRAKLRSESPWEIAFIRQKSYCGHPGNICCPSPQVSEDCGPQTSTFTLLSSPSETLLPKTSSTPQTQDSTFPSCKAIQTKPEHDKTEHSPITSLDNSPADTSNADIAPAWTDDDSGPQGKISLNPSVRLKAEKLEMALNYLGIQPTKEQREALREQVQADSKGTVSFGDFVQVARSLFCLQLDEVNVGVHEIPSILDSQLLPCDSLEADEVGKLRQERNAALEERNVLKEKLLESEKHRKQLIEELQNVKQEAKAVAEETRALRSRIHLAEAAQRQAHGMEMDYEEVIRLLEAEVSELKAQLADYSDQNKESVQDLRKRVTVLDCQLRKSEMARKAFKASTERLLGFIEAIQEVLLDSSAPLSTLSERRAVLASQTSLPLLARNGRSFPATLLLESKELVRSVRAILDMDCLPYGWEEAYTADGIKYFINHVTQTTSWIHPVMSALNLSCAEESEEDCPRELTDPKS |
| 1916 | sp|P50225|ST1A1\_HUMAN | MELIQDTSRPPLEYVKGVPLIKYFAEALGPLQSFQARPDDLLISTYPKSGTTWVSQILDMIYQGGDLEKCHRAPIFMRVPFLEFKAPGIPSGMETLKDTPAPRLLKTHLPLALLPQTLLDQKVKVVYVARNAKDVAVSYYHFYHMAKVHPEPGTWDSFLEKFMVGEVSYGSWYQHVQEWWELSRTHPVLYLFYEDMKENPKREIQKILEFVGRSLPEETVDFVVQHTSFKEMKKNPMTNYTTVPQEFMDHSISPFMRKGMAGDWKTTFTVAQNERFDADYAEKMAGCSLSFRSEL |
| 1917 | sp|O15400|STX7\_HUMAN | MSYTPGVGGDPAQLAQRISSNIQKITQCSVEIQRTLNQLGTPQDSPELRQQLQQKQQYTNQLAKETDKYIKEFGSLPTTPSEQRQRKIQKDRLVAEFTTSLTNFQKVQRQAAEREKEFVARVRASSRVSGSFPEDSSKERNLVSWESQTQPQVQVQDEEITEDDLRLIHERESSIRQLEADIMDINEIFKDLGMMIHEQGDVIDSIEANVENAEVHVQQANQQLSRAADYQRKSRKTLCIIILILVIGVAIISLIIWGLNH |
| 1918 | sp|Q5SW75|SSH2\_MOUSE | MALVTVQRSPTPSTTSSPCASEADSGEEECRSQPRSISESFLTVKGAALFLPRGNGSSTPRVSHRRNKHAGDLQQHLQAMFILLRPEDNIRLAVRLESTYQNRTRYMVVVSTNGRQDTEESIVLGMDFSSNDSSTCTMGLVLPLWSDTLIHLDGDGGFSVSTDNRVHIFKPVSVQAMWSALQSLHKACEVARMHNYYPGSLFLTWVSYYESHINSDQSSVNEWNAMQDVQSHRPDSPALFTDIPTERERTERLIKTKLREIMMQKDLENITSKEIRTELEMQMVCNLREFKEFIDNEMIVILGQMDSPTQIFEHVFLGSEWNASNLEDLQNRGVRYILNVTREIDNFFPGVFEYHNIRVYDEEATDLLAYWNDTYKFISKAKKHGSKCLVHCKMGVSRSASTVIAYAMKEYGWNLDRAYDYVKERRTVTKPNPSFMRQLEEYQGILLASKQRHNKLWRSHSDSDLSDHHEPICKPGLELNKKEMTTSADQIAEVKTVENLAAMPTVFMEHVVPQDANQKGLHTKERVICLEFSSQEFRAGQIEDELNLNDINGCSSGCCLSESKLPLDNCHASKALLQPGQAPDIANKFPDLAVEDLETDALKADMNVHLLPMEELTSRLKDLPMSPDLESPSPQASCQAAISDFSTDRIDFFSALEKFVELSQETRSRSFSHSRIEELGGGRSEGCRLSVIEVAASEMAADDQRSSSLSNTPHASEESSVDEDQSKAITELVSPDIIMQSHSENAISVKEIVTEIESISQGVGQVQLKGDILSNPCHTPKKSTIHELPLERVPAPESKPGHWEQDESFCSVQPELARDSGKCAPEEGCLTTHSSTADLEEEEPVEGEHDWGPGMHSGAKWCPGSVRRATLEFEERLRQEQENHGTASAGPTLSNRKNSKNDSSVADLMPKWKSDETTPEHSFFLKEAEPSKGKGKCSGSEAGSLSHCERNPTMPDCELLEHHSLPAPQDCLGSDSRSKKQEGDLKKQRAVVPNQECDTQAILLPLPKKIEIIEYTPTVTSLGHTEPGGEATPSKEGEKQGLRKVKMEQSITMFCALDENLNRTLEPSQVSLHPQVLPLPHSSSECDRPADPNPMLSSPQDKGDCPSTPFKTAAPFVSCSTQGASFSLDYLLPHSVVHLEGCTEQSSATDNELSPEQASWEDSRGHFLSSGSGMAHTSSPLTNEDLSLINKLGDSVGVLQKKLDPSPEACRIPHSSSSENIRDLSHSRGVVKEHAKEIESRVIFQAGFSKTSQMKRSASLAKLGYLDLCKDYLPDRELVSSESPHLKLLQPFLRTDSGMHALMAHEPSESAGAQQNPQPTKYSVEQLKTSECIVQSKPVERPSVQYAKEFGYSQQCLLPKARPELTSSEGGLPLLQTQGLQYTGPSPGLAVAPRQQHGRTHPLRRLKRANDKKRTTNPFYNTM |
| 1919 | sp|P36104|SWD2\_YEAST | MTTVSINKPNLLKFKHVKSFQPQEKDCGPVTSLNFDDNGQFLLTSSSNDTMQLYSATNCKFLDTIASKKYGCHSAIFTHAQNECIYSSTMKNFDIKYLNLETNQYLRYFSGHGALVNDLKMNPVNDTFLSSSYDESVRLWDLKISKPQVIIPSLVPNCIAYDPSGLVFALGNPENFEIGLYNLKKIQEGPFLIIKINDATFSQWNKLEFSNNGKYLLVGSSIGKHLIFDAFTGQQLFELIGTRAFPMREFLDSGSACFTPDGEFVLGTDYDGRIAIWNHSDSISNKVLRPQGFIPCVSHETCPRSIAFNPKYSMFVTADETVDFYVYDE |
| 1920 | sp|Q29YR5|ST2B1\_RAT | MDGPQPPALWGSLENRVSELSQKLQGEYFRYKGIPFPVGMYTPESLSLAENTSNVRDDDIFIVTYPKSGTNWMIEIICLILKDGDPSWIRSEPIWQRAPWCETTISAFSLPERPSPRLMCSHLPIELFTKAAFSSKAKVIYLGRNPRDVVVSLYYYSKIAVQLKDPGTPEQFLQNFLKGEVQFGSWFDHIKGWIRMRGRENFLFITYEELQQDLRGSVQLICEFLGRPLGEEALSSVVAHSAFAAMKANNMSNYTLLPASLLDHRQGAFLRKGISGDWKNHFTVAQSETFDQVYREQMHGLPSFPWDRSAEDGSPDGETEPSPSPSPGLASDDPNPGSSQ |
| 1921 | sp|Q9MAQ0|SSG1\_ARATH | MATVTASSNFVSRTSLFNNHGASSCSDVAQITLKGQSLTHCGLRSFNMVDNLQRRSQAKPVSAKSSKRSSKVKTAGKIVCEKGMSVIFIGAEVGPWSKTGGLGDVLGGLPPALAARGHRVMTICPRYDQYKDAWDTCVVVQIKVGDKVENVRFFHCYKRGVDRVFVDHPIFLAKVVGKTGSKIYGPITGVDYNDNQLRFSLLCQAALEAPQVLNLNSSKYFSGPYGEDVVFVANDWHTALLPCYLKSMYQSRGVYMNAKVVFCIHNIAYQGRFAFDDYSLLNLPISFKSSFDFMDGYEKPVKGRKINWMKAAILEAHRVLTVSPYYAQELISGVDRGVELHKYLRMKTVSGIINGMDVQEWNPSTDKYIDIKYDITTVTDAKPLIKEALQAAVGLPVDRDVPVIGFIGRLEEQKGSDILVEAISKFMGLNVQMVILGTGKKKMEAQILELEEKFPGKAVGVAKFNVPLAHMITAGADFIIVPSRFEPCGLIQLHAMRYGTVPIVASTGGLVDTVKDGYTGFHIGRFNVKCEVVDPDDVIATAKAVTRAVAVYGTSAMQEMVKNCMDQDFSWKGPARLWEKVLLSLNVAGSEAGTEGEEIAPLAKENVATP |
| 1922 | sp|Q52428|SYD\_THEKO | MYRTHYSSEITEELNGQKVKVAGWVWEVKDLGGIKFLWIRDRDGIVQITAPKKKVDPELFKLIPKLRSEDVVAVEGVVNFTPKAKLGFEILPEKIVVLNRAETPLPLDPTGKVKAELDTRLDNRFMDLRRPEVMAIFKIRSSVFKAVRDFFHENGFIEIHTPKIIATATEGGTELFPMKYFEEDAFLAQSPQLYKQIMMASGLDRVYEIAPIFRAEEHNTTRHLNEAWSIDSEMAFIEDEEEVMSFLERLVAHAINYVREHNAKELDILNFELEEPKLPFPRVSYDKALEILGDLGKEIPWGEDIDTEGERLLGKYMMENENAPLYFLYQYPSEAKPFYIMKYDNKPEICRAFDLEYRGVEISSGGQREHRHDILVEQIKEKGLNPESFEFYLKAFRYGMPPHGGFGLGAERLIKQMLDLPNIREVILFPRDRRRLTP |
| 1923 | sp|Q96I99|SUCB2\_HUMAN | MASPVAAQAGKLLRALALRPRFLAAGSQAVQLTSRRWLNLQEYQSKKLMSDNGVRVQRFFVADTANEALEAAKRLNAKEIVLKAQILAGGRGKGVFNSGLKGGVHLTKDPNVVGQLAKQMIGYNLATKQTPKEGVKVNKVMVAEALDISRETYLAILMDRSCNGPVLVGSPQGGVDIEEVAASNPELIFKEQIDIFEGIKDSQAQRMAENLGFVGPLKSQAADQITKLYNLFLKIDATQVEVNPFGETPEGQVVCFDAKINFDDNAEFRQKDIFAMDDKSENEPIENEAAKYDLKYIGLDGNIACFVNGAGLAMATCDIIFLNGGKPANFLDLGGGVKEAQVYQAFKLLTADPKVEAILVNIFGGIVNCAIIANGITKACRELELKVPLVVRLEGTNVQEAQKILNNSGLPITSAIDLEDAAKKAVASVAKK |
| 1924 | sp|Q62910|SYNJ1\_RAT | MAFSKGFRIYHKLDPPPFSLIVETRHKEECLMFESGAVAVLSSAEKEAIKGTYAKVLDAYGLLGVLRLNLGDTMLHYLVLVTGCMSVGKIQESEVFRVTSTEFISLRVDASDEDRISEVRKVLNSGNFYFAWSASGVSLDLSLNAHRSMQEHTTDNRFFWNQSLHLHLKHYGVNCDDWLLRLMCGGVEIRTIYAAHKQAKACLISRLSCERAGTRFNVRGTNDDGHVANFVETEQVIYLDDCVSSFIQIRGSVPLFWEQPGLQVGSHRVRMSRGFEANAPAFDRHFRTLKDLYGKQIVVNLLGSKEGEHMLSKAFQSHLKASEHASDIHMVSFDYHQMVKGGKAEKLHSVLKPQVQKFLDYGFFYFDGSAVQRCQSGTVRTNCLDCLDRTNSVQAFLGLEMLAKQLEALGLAEKPQLVTRFQEVFRSMWSVNGDSISKIYAGTGALEGKAKLKDGARSVTRTIQNNFFDSSKQEAIDVLLLGNTLNSDLADKARALLTTGSLRVSEQTLQSASSKVLKNMCENFYKYSKPKKIRVCVGTWNVNGGKQFRSIAFKNQTLTDWLLDAPKLAGIQEFQDKRSKPTDIFAIGFEEMVELNAGNIVNASTTNQKLWAVELQKTISRDNKYVLLASEQLVGVCLFVFIRPQHAPFIRDVAVDTVKTGMGGATGNKGAVAIRMLFHTTSLCFVCSHFAAGQSQVKERNEDFVEIARKLSFPMGRMLFSHDYVFWCGDFNYRIDLPNEEVKELIRQQNWDSLIAGDQLINQKNAGQIFRGFLEGKVTFAPTYKYDLFSEDYDTSEKCRTPAWTDRVLWRRRKWPFDRSAEDLDLLNASFQDESKILYTWTPGTLLHYGRAELKTSDHRPVVALIDIDIFEVEAEERQKIYKEVIAVQGPPDGTVLVSIKSSAQENTFFDDALIDELLQQFAHFGEVILIRFVEDKMWVTFLEGSSALNVLSLNGKELLNRTITITLKSPDWIKTLEEEMSLEKISVTLPSSTSSTLLGEDAEVSADFDMEGDVDDYSAEVEELLPQHLQPSSSSGLGTSPSSSPRTSPCQSPTAPEYSAPSLPIRPSRAPSRTPGPLSSQGAPVDTQPAAQKESSQTIEPKRPPPPRPVAPPARPAPPQRPPPPSGARSPAPARKEFGGVGAPPSPGVTRREMEAPKSPGTARKDNIGRNQPSPQAGLAGPGPSGYGAARPTIPARAGVISAPQSQARVSAGRLTPESQSKPLETSKGPAVLPEPLKPQAAFPPQPSLPTPAQKLQDPLVPIAAPMPPSIPQSNLETPPLPPPRSRSSQSLPSDSSPQLQQEQPTGQQVKINGACGVKQEPTLKSDPFEDLSLSVLAVSKAQPSAQISPVLTPDPKMLIQLPSASQSKVNSLSSVSCMLTMPPVPEQSKSQESVGSSANPFPSLPTRNPFTDRTAAPGNPFRVQSQESEATSWLSKEEPVSNSPFPPLMPLSHDMSKPSSSLDGFEDNFDLQSQSTVKTSNPKGWVTFDEDEDFPTKGKSRSVYPDSLGNTAASFDDDWSKGTNVSFCVLPARRPPPPPPPVPLLPPGTTSSAGPSTTLSSKASPTLDFTER |
| 1925 | sp|O43617|TPPC3\_HUMAN | MSRQANRGTESKKMSSELFTLTYGALVTQLCKDYENDEDVNKQLDKMGFNIGVRLIEDFLARSNVGRCHDFRETADVIAKVAFKMYLGITPSITNWSPAGDEFSLILENNPLVDFVELPDNHSSLIYSNLLCGVLRGALEMVQMAVEAKFVQDTLKGDGVTEIRMRFIRRIEDNLPAGEE |
| 1926 | sp|Q6XPS3|TPTE2\_HUMAN | MNESPQTNEFKGTTEEAPAKESPHTSEFKGAALVSPISKSMLERLSKFEVEDAENVASYDSKIKKIVHSIVSSFAFGIFGVFLVLLDVTLLLADLIFTDSKLYIPLEYRSISLAIGLFFLMDVLLRVFVEGRQQYFSDLFNILDTAIIVIPLLVDVIYIFFDIKLLRNIPRWTHLVRLLRLIILIRIFHLLHQKRQLEKLMRRLVSENKRRYTRDGFDLDLTYVTERIIAMSFPSSGRQSFYRNPIEEVVRFLDKKHRNHYRVYNLCSERAYDPKHFHNRVSRIMIDDHNVPTLHEMVVFTKEVNEWMAQDLENIVAIHCKGGKGRTGTMVCALLIASEIFLTAEESLYYFGERRTNKTHSNKFQGVETPSQNRYVGYFAQVKHLYNWNLPPRRILFIKRFIIYSIRGDVCDLKVQVVMEKKVVFSSTSLGNCSILHDIETDKILINVYDGPPLYDDVKVQFFSSNLPKYYDNCPFFFWFNTSFIQNNRLCLPRNELDNPHKQKAWKIYPPEFAVEILFGEK |
| 1927 | sp|Q15633|TRBP2\_HUMAN | MSEEEQGSGTTTGCGLPSIEQMLAANPGKTPISLLQEYGTRIGKTPVYDLLKAEGQAHQPNFTFRVTVGDTSCTGQGPSKKAAKHKAAEVALKHLKGGSMLEPALEDSSSFSPLDSSLPEDIPVFTAAAAATPVPSVVLTRSPPMELQPPVSPQQSECNPVGALQELVVQKGWRLPEYTVTQESGPAHRKEFTMTCRVERFIEIGSGTSKKLAKRNAAAKMLLRVHTVPLDARDGNEVEPDDDHFSIGVGSRLDGLRNRGPGCTWDSLRNSVGEKILSLRSCSLGSLGALGPACCRVLSELSEEQAFHVSYLDIEELSLSGLCQCLVELSTQPATVCHGSATTREAARGEAARRALQYLKIMAGSK |
| 1928 | sp|P58771|TPM1\_MOUSE | MDAIKKKMQMLKLDKENALDRAEQAEADKKAAEDRSKQLEDELVSLQKKLKGTEDELDKYSEALKDAQEKLELAEKKATDAEADVASLNRRIQLVEEELDRAQERLATALQKLEEAEKAADESERGMKVIESRAQKDEEKMEIQEIQLKEAKHIAEDADRKYEEVARKLVIIESDLERAEERAELSEGKCAELEEELKTVTNNLKSLEAQAEKYSQKEDKYEEEIKVLSDKLKEAETRAEFAERSVTKLEKSIDDLEDELYAQKLKYKAISEELDHALNDMTSI |
| 1929 | sp|Q9FEE2|TON2\_ARATH | MYSGSSDGESHDTSTQRKIPPASSMLWVRNLRRYIGSGAGLGSEALMELETKRILLEIFKEKQQKSQEAGTIPSFYKKKPEEGSISQRVQKLAKYRFLKKQSDLLLNADDLAAMWVCLRENCVIDDATGAEKMNYEDFCHIASVCTEQIGPKCRRFFSPSNFMKFEKDEAGRIAILPFYLYVMRTVSLTQARIDMSELDEDSDGFLHSDEMESYIGGLIPNLAQLRDMPPAFNQMYCRIASQKFFFFCDPHRRGRACIKKILLSNCLQELMELHQESEEEVTDTEQAENWFSLTSAQRICDMFLALDKDMSGSLCKQELKEYADGTLTEIFIERVFDEHVRRGKIVAGNSREMDFDSFLDFVLALENKDTPEGLTYLFRCLDLQGRGFLTTADIHSLFRDVHQKWIEGGNYELCIEDVRDEIWDMVKPSDPLKITLGDLLGCKQGGTVASMLIDVRGFWAHDNRENLLQEEEEPPEEESQ |
| 1930 | sp|Q96Q05|TPPC9\_HUMAN | MSVPDYMQCAEDHQTLLVVVQPVGIVSEENFFRIYKRICSVSQISVRDSQRVLYIRYRHHYPPENNEWGDFQTHRKVVGLITITDCFSAKDWPQTFEKFHVQKEIYGSTLYDSRLFVFGLQGEIVEQPRTDVAFYPNYEDCQTVEKRIEDFIESLFIVLESKRLDRATDKSGDKIPLLCVPFEKKDFVGLDTDSRHYKKRCQGRMRKHVGDLCLQAGMLQDSLVHYHMSVELLRSVNDFLWLGAALEGLCSASVIYHYPGGTGGKSGARRFQGSTLPAEAANRHRPGAQEVLIDPGALTTNGINPDTSTEIGRAKNCLSPEDIIDKYKEAISYYSKYKNAGVIELEACIKAVRVLAIQKRSMEASEFLQNAVYINLRQLSEEEKIQRYSILSELYELIGFHRKSAFFKRVAAMQCVAPSIAEPGWRACYKLLLETLPGYSLSLDPKDFSRGTHRGWAAVQMRLLHELVYASRRMGNPALSVRHLSFLLQTMLDFLSDQEKKDVAQSLENYTSKCPGTMEPIALPGGLTLPPVPFTKLPIVRHVKLLNLPASLRPHKMKSLLGQNVSTKSPFIYSPIIAHNRGEERNKKIDFQWVQGDVCEVQLMVYNPMPFELRVENMGLLTSGVEFESLPAALSLPAESGLYPVTLVGVPQTTGTITVNGYHTTVFGVFSDCLLDNLPGIKTSGSTVEVIPALPRLQISTSLPRSAHSLQPSSGDEISTNVSVQLYNGESQQLIIKLENIGMEPLEKLEVTSKVLTTKEKLYGDFLSWKLEETLAQFPLQPGKVATFTINIKVKLDFSCQENLLQDLSDDGISVSGFPLSSPFRQVVRPRVEGKPVNPPESNKAGDYSHVKTLEAVLNFKYSGGPGHTEGYYRNLSLGLHVEVEPSVFFTRVSTLPATSTRQCHLLLDVFNSTEHELTVSTRSSEALILHAGECQRMAIQVDKFNFESFPESPGEKGQFANPKQLEEERREARGLEIHSKLGICWRIPSLKRSGEASVEGLLNQLVLEHLQLAPLQWDVLVDGQPCDREAVAACQVGDPVRLEVRLTNRSPRSVGPFALTVVPFQDHQNGVHNYDLHDTVSFVGSSTFYLDAVQPSGQSACLGALLFLYTGDFFLHIRFHEDSTSKELPPSWFCLPSVHVCALEAQA |
| 1931 | sp|Q99PQ2|TRI11\_MOUSE | MAAPDLSTNLQEEATCAICLDYFTDPVMTDCGHNFCRECIRRCWGQPEGPYACPECRELSAQRNLRPNRPLAKMAEMARRLHPPSPVPQGVCAAHREPLTTFCGDDLSLLCPICERSEHWTHRVRPLQEAADDLKGRLEKSLEHLRKQMEDAMLFQAQAEETCALWQKMVESQRQNVLGEFERLRRLLAEEEQQLLQKLEEEELEVLPRLREGAARLGQQSTQLAALISELESRCQLPALGLLQDIKDALCRVQDVKLQPPAVVPMELRTVCRVPGLVETLRRFRGDITLDPDTANPELVLSEDRRSVQRGEQRQALPDNPERFDPGPCVLGQERITSGRHYWEVEVGDQTSWALGVCKETANRKEKGELSAGNGFWILVFLGSFYNSNEPAFSPLRDPPKRVGIFLDYEAGHLSFYSATDGSLLFIFPETLFSGTLRPLFSPLSSSPTPMTICRLIGVSGDTLGPQ |
| 1932 | sp|P12270|TPR\_HUMAN | MAAVLQQVLERTELNKLPKSVQNKLEKFLADQQSEIDGLKGRHEKFKVESEQQYFEIEKRLSHSQERLVNETRECQSLRLELEKLNNQLKALTEKNKELEIAQDRNIAIQSQFTRTKEELEAEKRDLIRTNERLSQELEYLTEDVKRLNEKLKESNTTKGELQLKLDELQASDVSVKYREKRLEQEKELLHSQNTWLNTELKTKTDELLALGREKGNEILELKCNLENKKEEVSRLEEQMNGLKTSNEHLQKHVEDLLTKLKEAKEQQASMEEKFHNELNAHIKLSNLYKSAADDSEAKSNELTRAVEELHKLLKEAGEANKAIQDHLLEVEQSKDQMEKEMLEKIGRLEKELENANDLLSATKRKGAILSEEELAAMSPTAAAVAKIVKPGMKLTELYNAYVETQDQLLLEKLENKRINKYLDEIVKEVEAKAPILKRQREEYERAQKAVASLSVKLEQAMKEIQRLQEDTDKANKQSSVLERDNRRMEIQVKDLSQQIRVLLMELEEARGNHVIRDEEVSSADISSSSEVISQHLVSYRNIEELQQQNQRLLVALRELGETREREEQETTSSKITELQLKLESALTELEQLRKSRQHQMQLVDSIVRQRDMYRILLSQTTGVAIPLHASSLDDVSLASTPKRPSTSQTVSTPAPVPVIESTEAIEAKAALKQLQEIFENYKKEKAENEKIQNEQLEKLQEQVTDLRSQNTKISTQLDFASKRYEMLQDNVEGYRREITSLHERNQKLTATTQKQEQIINTMTQDLRGANEKLAVAEVRAENLKKEKEMLKLSEVRLSQQRESLLAEQRGQNLLLTNLQTIQGILERSETETKQRLSSQIEKLEHEISHLKKKLENEVEQRHTLTRNLDVQLLDTKRQLDTETNLHLNTKELLKNAQKEIATLKQHLSNMEVQVASQSSQRTGKGQPSNKEDVDDLVSQLRQTEEQVNDLKERLKTSTSNVEQYQAMVTSLEESLNKEKQVTEEVRKNIEVRLKESAEFQTQLEKKLMEVEKEKQELQDDKRRAIESMEQQLSELKKTLSSVQNEVQEALQRASTALSNEQQARRDCQEQAKIAVEAQNKYERELMLHAADVEALQAAKEQVSKMASVRQHLEETTQKAESQLLECKASWEERERMLKDEVSKCVCRCEDLEKQNRLLHDQIEKLSDKVVASVKEGVQGPLNVSLSEEGKSQEQILEILRFIRREKEIAETRFEVAQVESLRYRQRVELLERELQELQDSLNAEREKVQVTAKTMAQHEELMKKTETMNVVMETNKMLREEKERLEQDLQQMQAKVRKLELDILPLQEANAELSEKSGMLQAEKKLLEEDVKRWKARNQHLVSQQKDPDTEEYRKLLSEKEVHTKRIQQLTEEIGRLKAEIARSNASLTNNQNLIQSLKEDLNKVRTEKETIQKDLDAKIIDIQEKVKTITQVKKIGRRYKTQYEELKAQQDKVMETSAQSSGDHQEQHVSVQEMQELKETLNQAETKSKSLESQVENLQKTLSEKETEARNLQEQTVQLQSELSRLRQDLQDRTTQEEQLRQQITEKEEKTRKAIVAAKSKIAHLAGVKDQLTKENEELKQRNGALDQQKDELDVRITALKSQYEGRISRLERELREHQERHLEQRDEPQEPSNKVPEQQRQITLKTTPASGERGIASTSDPPTANIKPTPVVSTPSKVTAAAMAGNKSTPRASIRPMVTPATVTNPTTTPTATVMPTTQVESQEAMQSEGPVEHVPVFGSTSGSVRSTSPNVQPSISQPILTVQQQTQATAFVQPTQQSHPQIEPANQELSSNIVEVVQSSPVERPSTSTAVFGTVSATPSSSLPKRTREEEEDSTIEASDQVSDDTVEMPLPKKLKSVTPVGTEEEVMAEESTDGEVETQVYNQDSQDSIGEGVTQGDYTPMEDSEETSQSLQIDLGPLQSDQQTTTSSQDGQGKGDDVIVIDSDDEEEDDDENDGEHEDYEEDEEDDDDDEDDTGMGDEGEDSNEGTGSADGNDGYEADDAEGGDGTDPGTETEESMGGGEGNHRAADSQNSGEGNTGAAESSFSQEVSREQQPSSASERQAPRAPQSPRRPPHPLPPRLTIHAPPQELGPPVQRIQMTRRQSVGRGLQLTPGIGGMQQHFFDDEDRTVPSTPTLVVPHRTDGFAEAIHSPQVAGVPRFRFGPPEDMPQTSSSHSDLGQLASQGGLGMYETPLFLAHEEESGGRSVPTTPLQVAAPVTVFTESTTSDASEHASQSVPMVTTSTGTLSTTNETATGDDGDEVFVEAESEGISSEAGLEIDSQQEEEPVQASDESDLPSTSQDPPSSSSVDTSSSQPKPFRRVRLQTTLRQGVRGRQFNRQRGVSHAMGGRGGINRGNIN |
| 1933 | sp|P17536|TPM1\_YEAST | MDKIREKLSNLKLEAESWQEKYEELKEKNKDLEQENVEKENQIKSLTVKNQQLEDEIEKLEAGLSDSKQTEQDNVEKENQIKSLTVKNHQLEEEIEKLEAELAESKQLSEDSHHLQSNNDNFSKKNQQLEEDLEESDTKLKETTEKLRESDLKADQLERRVAALEEQREEWERKNEELTVKYEDAKKELDEIAASLENL |
| 1934 | sp|Q8IWR1|TRI59\_HUMAN | MHNFEEELTCPICYSIFEDPRVLPCSHTFCRNCLENILQASGNFYIWRPLRIPLKCPNCRSITEIAPTGIESLPVNFALRAIIEKYQQEDHPDIVTCPEHYRQPLNVYCLLDKKLVCGHCLTIGQHHGHPIDDLQSAYLKEKDTPQKLLEQLTDTHWTDLTHLIEKLKEQKSHSEKMIQGDKEAVLQYFKELNDTLEQKKKSFLTALCDVGNLINQEYTPQIERMKEIREQQLELMALTISLQEESPLKFLEKVDDVRQHVQILKQRPLPEVQPVEIYPRVSKILKEEWSRTEIGQIKNVLIPKMKISPKRMSCSWPGKDEKEVEFLKILNIVVVTLISVILMSILFFNQHIITFLSEITLIWFSEASLSVYQSLSNSLHKVKNILCHIFYLLKEFVWKIVSH |
| 1935 | sp|Q15643|TRIPB\_HUMAN | MSSWLGGLGSGLGQSLGQVGGSLASLTGQISNFTKDMLMEGTEEVEAELPDSRTKEIEAIHAILRSENERLKKLCTDLEEKHEASEIQIKQQSTSYRNQLQQKEVEISHLKARQIALQDQLLKLQSAAQSVPSGAGVPATTASSSFAYGISHHPSAFHDDDMDFGDIISSQQEINRLSNEVSRLESEVGHWRHIAQTSKAQGTDNSDQSEICKLQNIIKELKQNRSQEIDDHQHEMSVLQNAHQQKLTEISRRHREELSDYEERIEELENLLQQGGSGVIETDLSKIYEMQKTIQVLQIEKVESTKKMEQLEDKIKDINKKLSSAENDRDILRREQEQLNVEKRQIMEECENLKLECSKLQPSAVKQSDTMTEKERILAQSASVEEVFRLQQALSDAENEIMRLSSLNQDNSLAEDNLKLKMRIEVLEKEKSLLSQEKEELQMSLLKLNNEYEVIKSTATRDISLDSELHDLRLNLEAKEQELNQSISEKETLIAEIEELDRQNQEATKHMILIKDQLSKQQNEGDSIISKLKQDLNDEKKRVHQLEDDKMDITKELDVQKEKLIQSEVALNDLHLTKQKLEDKVENLVDQLNKSQESNVSIQKENLELKEHIRQNEEELSRIRNELMQSLNQDSNSNFKDTLLKEREAEVRNLKQNLSELEQLNENLKKVAFDVKMENEKLVLACEDVRHQLEECLAGNNQLSLEKNTIVETLKMEKGEIEAELCWAKKRLLEEANKYEKTIEELSNARNLNTSALQLEHEHLIKLNQKKDMEIAELKKNIEQMDTDHKETKDVLSSSLEEQKQLTQLINKKEIFIEKLKERSSKLQEELDKYSQALRKNEILRQTIEEKDRSLGSMKEENNHLQEELERLREEQSRTAPVADPKTLDSVTELASEVSQLNTIKEHLEEEIKHHQKIIEDQNQSKMQLLQSLQEQKKEMDEFRYQHEQMNATHTQLFLEKDEEIKSLQKTIEQIKTQLHEERQDIQTDNSDIFQETKVQSLNIENGSEKHDLSKAETERLVKGIKERELEIKLLNEKNISLTKQIDQLSKDEVGKLTQIIQQKDLEIQALHARISSTSHTQDVVYLQQQLQAYAMEREKVFAVLNEKTRENSHLKTEYHKMMDIVAAKEAALIKLQDENKKLSTRFESSGQDMFRETIQNLSRIIREKDIEIDALSQKCQTLLAVLQTSSTGNEAGGVNSNQFEELLQERDKLKQQVKKMEEWKQQVMTTVQNMQHESAQLQEELHQLQAQVLVDSDNNSKLQVDYTGLIQSYEQNETKLKNFGQELAQVQHSIGQLCNTKDLLLGKLDIISPQLSSASLLTPQSAECLRASKSEVLSESSELLQQELEELRKSLQEKDATIRTLQENNHRLSDSIAATSELERKEHEQTDSEIKQLKEKQDVLQKLLKEKDLLIKAKSDQLLSSNENFTNKVNENELLRQAVTNLKERILILEMDIGKLKGENEKIVETYRGKETEYQALQETNMKFSMMLREKEFECHSMKEKALAFEQLLKEKEQGKTGELNQLLNAVKSMQEKTVVFQQERDQVMLALKQKQMENTALQNEVQRLRDKEFRSNQELERLRNHLLESEDSYTREALAAEDREAKLRKKVTVLEEKLVSSSNAMENASHQASVQVESLQEQLNVVSKQRDETALQLSVSQEQVKQYALSLANLQMVLEHFQQEEKAMYSAELEKQKQLIAEWKKNAENLEGKVISLQECLDEANAALDSASRLTEQLDVKEEQIEELKRQNELRQEMLDDVQKKLMSLANSSEGKVDKVLMRNLFIGHFHTPKNQRHEVLRLMGSILGVRREEMEQLFHDDQGGVTRWMTGWLGGGSKSVPNTPLRPNQQSVVNSSFSELFVKFLETESHPSIPPPKLSVHDMKPLDSPGRRKRDTNAPESFKDTAESRSGRRTDVNPFLAPRSAAVPLINPAGLGPGGPGHLLLKPISDVLPTFTPLPALPDNSAGVVLKDLLKQ |
| 1936 | sp|P11214|TPA\_MOUSE | MKRELLCVLLLCGLAFPLPDQGIHGRFRRGARSYRATCRDEPTQTTYQQHQSWLRPMLRSSRVEYCRCNSGLVQCHSVPVRSCSEPRCFNGGTCQQALYFSDFVCQCPDGFVGKRCDIDTRATCFEEQGITYRGTWSTAESGAECINWNSSVLSLKPYNARRPNAIKLGLGNHNYCRNPDRDLKPWCYVFKAGKYTTEFCSTPACPKGKSEDCYVGKGVTYRGTHSLTTSQASCLPWNSIVLMGKSYTAWRTNSQALGLGRHNYCRNPDGDARPWCHVMKDRKLTWEYCDMSPCSTCGLRQYKRPQFRIKGGLYTDITSHPWQAAIFVKNKRSPGERFLCGGVLISSCWVLSAAHCFLERFPPNHLKVVLGRTYRVVPGEEEQTFEIEKYIVHEEFDDDTYDNDIALLQLRSQSKQCAQESSSVGTACLPDPNLQLPDWTECELSGYGKHEASSPFFSDRLKEAHVRLYPSSRCTSQHLFNKTVTNNMLCAGDTRSGGNQDLHDACQGDSGGPLVCMINKQMTLTGIISWGLGCGQKDVPGVYTKVTNYLDWIHDNMKQ |
| 1937 | sp|Q78EG7|TP4A1\_RAT | MARMNRPAPVEVTYKNMRFLITHNPTNATLNKFIEELKKYGVTTIVRVCEATYDTTLVEKEGIHVLDWPFDDGAPPSNQIVDDWLSLVKIKFREEPGCCIAVHCVAGLGRAPVLVALALIEGGMKYEDAVQFIRQKRRGAFNSKQLLYLEKYRPKMRLRFKDSNGHRNNCCIQ |
| 1938 | sp|Q969Q1|TRI63\_HUMAN | MDYKSSLIQDGNPMENLEKQLICPICLEMFTKPVVILPCQHNLCRKCANDIFQAANPYWTSRGSSVSMSGGRFRCPTCRHEVIMDRHGVYGLQRNLLVENIIDIYKQECSSRPLQKGSHPMCKEHEDEKINIYCLTCEVPTCSMCKVFGIHKACEVAPLQSVFQGQKTELNNCISMLVAGNDRVQTIITQLEDSRRVTKENSHQVKEELSQKFDTLYAILDEKKSELLQRITQEQEKKLSFIEALIQQYQEQLDKSTKLVETAIQSLDEPGGATFLLTAKQLIKSIVEASKGCQLGKTEQGFENMDFFTLDLEHIADALRAIDFGTDEEEEEFIEEEDQEEEESTEGKEEGHQ |
| 1939 | sp|Q86WT6|TRI69\_HUMAN | MEVSTNPSSNIDPGDYVEMNDSITHLPSKVVIQDITMELHCPLCNDWFRDPLMLSCGHNFCEACIQDFWRLQAKETFCPECKMLCQYNNCTFNPVLDKLVEKIKKLPLLKGHPQCPEHGENLKLFSKPDGKLICFQCKDARLSVGQSKEFLQISDAVHFFTEELAIQQGQLETTLKELQTLRNMQKEAIAAHKENKLHLQQHVSMEFLKLHQFLHSKEKDILTELREEGKALNEEMELNLSQLQEQCLLAKDMLVSIQAKTEQQNSFDFLKDITTLLHSLEQGMKVLATRELISRKLNLGQYKGPIQYMVWREMQDTLCPGLSPLTLDPKTAHPNLVLSKSQTSVWHGDIKKIMPDDPERFDSSVAVLGSRGFTSGKWYWEVEVAKKTKWTVGVVRESIIRKGSCPLTPEQGFWLLRLRNQTDLKALDLPSFSLTLTNNLDKVGIYLDYEGGQLSFYNAKTMTHIYTFSNTFMEKLYPYFCPCLNDGGENKEPLHILHPQ |
| 1940 | sp|O00294|TULP1\_HUMAN | MPLRDETLREVWASDSGHEEESLSPEAPRRPKQRPAPAQRLRKKRTEAPESPCPTGSKPRKPGAGRTGRPREEPSPDPAQARAPQTVYARFLRDPEAKKRDPRETFLVARAPDAEDEEEEEEEDEEDEEEEAEEKKEKILLPPKKPLREKSSADLKERRAKAQGPRGDLGSPDPPPKPLRVRNKEAPAGEGTKMRKTKKKGSGEADKDPSGSPASARKSPAAMFLVGEGSPDKKALKKKGTPKGARKEEEEEEEAATVIKKSNQKGKAKGKGKKKAKEERAPSPPVEVDEPREFVLRPAPQGRTVRCRLTRDKKGMDRGMYPSYFLHLDTEKKVFLLAGRKRKRSKTANYLISIDPTNLSRGGENFIGKLRSNLLGNRFTVFDNGQNPQRGYSTNVASLRQELAAVIYETNVLGFRGPRRMTVIIPGMSAENERVPIRPRNASDGLLVRWQNKTLESLIELHNKPPVWNDDSGSYTLNFQGRVTQASVKNFQIVHADDPDYIVLQFGRVAEDAFTLDYRYPLCALQAFAIALSSFDGKLACE |
| 1941 | sp|Q01320|TOP2A\_MOUSE | MELSPLQPVNENMLMNKKKNEDGKKRLSIERIYQKKTQLEHILLRPDTYIGSVELVTQQMWVYDEDVGINYREVTFVPGLYKIFDEILVNAADNKQRDPKMSCIRVTIDPENNVISIWNNGKGIPVVEHKVEKIYVPALIFGQLLTSSNYDDDEKKVTGGRNGYGAKLCNIFSTKFTVETASREYKKMFKQTWMDNMGRAGDMELKPFSGEDYTCITFQPDLSKFKMQSLDKDIVALMVRRAYDIAGSTKDVKVFLNGNSLPVKGFRSYVDLYLKDKVDETGNSLKVIHEQVNPRWEVCLTMSERGFQQISFVNSIATSKGGRHVDYVADQIVSKLVDVVKKKNKGGVAVKAHQVKNHMWIFVNALIENPTFDSQTKENMTLQAKSFGSTCQLSEKFIKAAIGCGIVESILNWVKFKAQIQLNKKCSAVKHTKIKGIPKLDDANDAGSRNSTECTLILTEGDSAKTLAVSGLGVVGRDKYGVFPLRGKILNVREASHKQIMENAEINNIIKIVGLQYKKNYEDEDSLKTLRYGKIMIMTDQDQDGSHIKGLLINFIHHNWPSLLRHRFLEEFITPIVKVSKNKQEIAFYSLPEFEEWKSSTPNHKKWKVKYYKGLGTSTSKEAKEYFADMKRHRIQFKYSGPEDDAAISLAFSKKQVDDRKEWLTNFMEDRRQRKLLGLPEDYLYGQSTSYLTYNDFINKELILFSNSDNERSIPSMVDGLKPGQRKVLFTCFKRNDKREVKVAQLAGSVAEMSSYHHGEMSLMMTIINLAQNFVGSNNLNLLQPIGQFGTRLHGGKDSASPRYIFTMLSPLARLLFPPKDDHTLRFLYDDNQRVEPEWYIPIIPMVLINGAEGIGTGWSCKIPNFDVREVVNNIRRLLDGEEPLPMLPSYKNFKGTIEELASNQYVINGEVAILDSTTIEISELPIRTWTQTYKEQVLEPMLNGTEKTPSLITDYREYHTDTTVKFVIKMTEEKLAEAERVGLHKVFKLQSSLTCNSMVLFDHVGCLKKYDTVLDILRDFFELRLKYYGLRKEWLLGMLGAESSKLNNQARFILEKIDGKIVIENKPKKELIKVLIQRGYDSDPVKAWKEAQQKVPDEEENEESDTETSTSDSAAEAGPTFNYLLDMPLWYLTKEKKDELCKQRNEKEQELNTLKQKSPSDLWKEDLAVFIEELEVVEAKEKQDEQVGLPGKAGKAKGKKAQMCADVLPSPRGKRVIPQVTVEMKAEAEKKIRKKIKSENVEGTPAEDGAEPGSLRQRIEKKQKKEPGAKKQTTLPFKPVKKGRKKNPWSDSESDVSSNESNVDVPPRQKEQRSAAAKAKFTVDLDSDEDFSGLDEKDEDEDFLPLDATPPKAKIPPKNTKKALKTQGSSMSVVDLESDVKDSVPASPGVPAADFPAETEQSKPSKKTVGVKKTATKSQSSVSTAGTKKRAAPKGTKSDSALSARVSEKPAPAKAKNSRKRKPSSSDSSDSDFERAISKGATSKKAKGEEQDFPVDLEDTIAPRAKSDRARKPIKYLEESDDDDDLF |
| 1942 | sp|Q5VYS8|TUT7\_HUMAN | MGDTAKPYFVKRTKDRGTMDDDDFRRGHPQQDYLIIDDHAKGHGSKMEKGLQKKKITPGNYGNTPRKGPCAVSSNPYAFKNPIYSQPAWMNDSHKDQSKRWLSDEHTGNSDNWREFKPGPRIPVINRQRKDSFQENEDGYRWQDTRGCRTVRRLFHKDLTSLETTSEMEAGSPENKKQRSRPRKPRKTRNEENEQDGDLEGPVIDESVLSTKELLGLQQAEERLKRDCIDRLKRRPRNYPTAKYTCRLCDVLIESIAFAHKHIKEKRHKKNIKEKQEEELLTTLPPPTPSQINAVGIAIDKVVQEFGLHNENLEQRLEIKRIMENVFQHKLPDCSLRLYGSSCSRLGFKNSDVNIDIQFPAIMSQPDVLLLVQECLKNSDSFIDVDADFHARVPVVVCREKQSGLLCKVSAGNENACLTTKHLTALGKLEPKLVPLVIAFRYWAKLCSIDRPEEGGLPPYVFALMAIFFLQQRKEPLLPVYLGSWIEGFSLSKLGNFNLQDIEKDVVIWEHTDSAAGDTGITKEEAPRETPIKRGQVSLILDVKHQPSVPVGQLWVELLRFYALEFNLADLVISIRVKELVSRELKDWPKKRIAIEDPYSVKRNVARTLNSQPVFEYILHCLRTTYKYFALPHKITKSSLLKPLNAITCISEHSKEVINHHPDVQTKDDKLKNSVLAQGPGATSSAANTCKVQPLTLKETAESFGSPPKEEMGNEHISVHPENSDCIQADVNSDDYKGDKVYHPETGRKNEKEKVGRKGKHLLTVDQKRGEHVVCGSTRNNESESTLDLEGFQNPTAKECEGLATLDNKADLDGESTEGTEELEDSLNHFTHSVQGQTSEMIPSDEEEEDDEEEEEEEEPRLTINQREDEDGMANEDELDNTYTGSGDEDALSEEDDELGEAAKYEDVKECGKHVERALLVELNKISLKEENVCEEKNSPVDQSDFFYEFSKLIFTKGKSPTVVCSLCKREGHLKKDCPEDFKRIQLEPLPPLTPKFLNILDQVCIQCYKDFSPTIIEDQAREHIRQNLESFIRQDFPGTKLSLFGSSKNGFGFKQSDLDVCMTINGLETAEGLDCVRTIEELARVLRKHSGLRNILPITTAKVPIVKFFHLRSGLEVDISLYNTLALHNTRLLSAYSAIDPRVKYLCYTMKVFTKMCDIGDASRGSLSSYAYTLMVLYFLQQRNPPVIPVLQEIYKGEKKPEIFVDGWNIYFFDQIDELPTYWSECGKNTESVGQLWLGLLRFYTEEFDFKEHVISIRRKSLLTTFKKQWTSKYIVIEDPFDLNHNLGAGLSRKMTNFIMKAFINGRRVFGIPVKGFPKDYPSKMEYFFDPDVLTEGELAPNDRCCRICGKIGHFMKDCPMRRKVRRRRDQEDALNQRYPENKEKRSKEDKEIHNKYTEREVSTKEDKPIQCTPQKAKPMRAAADLGREKILRPPVEKWKRQDDKDLREKRCFICGREGHIKKECPQFKGSSGSLSSKYMTQGKASAKRTQQES |
| 1943 | sp|Q96PN7|TREF1\_HUMAN | MGDQQLYKTNHVAHGSENLFYQQPPLGVHSGLNHNYGNAVTGGGMDAPQASPISPHFPQDTRDGLGLPVGSKNLGQMDTSRQGGWGSHAGPGNHVQLRGNLANSNMMWGAPAQAEPTDGYQYTYSQASEIRTQKLTSGVLHKLDSFTQVFANQNLRIQVNNMAQVLHTQSAVMDGAPDSALRQLLSQKPMEPPAPAIPSRYQQVPQQPHPGFTGGLSKPALQVGQHPTQGHLYYDYQQPLAQVPVQGGQPLQAPQMLSQHMQQMQQHQYYPPQQQQQAGQQRISMQEIQTQPQQIRPSQPQPPPQQQQPQQLQLQQRQGSMQIPQYYQPQPMMQHLQEQQQQQMHLQPPSYHRDPHQYTPEQAHTVQLIPLGSMSQYYYQEPQQPYSHPLYQQSHLSQHQQREDSQLKTYSSDRQAQAMLSSHGDLGPPDTGMGDPASSDLTRVSSTLPHRPLLSPSGIHLNNMGPQHQQLSPSAMWPQMHLPDGRAQPGSPESSGQPKGAFGEQFDAKNKLTCSICLKEFKNLPALNGHMRSHGGMRASPNLKQEEGEKVLPPQPQPPLPPPPPPPPPPQLPPEAESLTPMVMPVSVPVKLLPPKPSSQGFTNSTVAAPSARDKPASSMSDDEMPVLEIPRKHQPSVPKAEEPLKTVQEKKKFRHRPEPLFIPPPPSYNPNPAASYSGATLYQSQLRSPRVLGDHLLLDPTHELPPYTPPPMLSPVRQGSGLFSNVLISGHGPGAHPQLPLTPLTPTPRVLLCRSNSIDGSNVTVTPGPGEQTVDVEPRINIGLRFQAEIPELQDISALAQDTHKATLVWKPWPELENHDLQQRVENLLNLCCSSALPGGGTNSEFALHSLFEAKGDVMVALEMLLLRKPVRLKCHPLANYHYAGSDKWTSLERKLFNKALATYSKDFIFVQKMVKSKTVAQCVEYYYTWKKIMRLGRKHRTRLAEIIDDCVTSEEEEELEEEEEEDPEEDRKSTKEEESEVPKSPEPPPVPVLAPTEGPPLQALGQPSGSFICEMPNCGAVFSSRQALNGHARIHGGTNQVTKARGAIPSGKQKPGGTQSGYCSVKSSPSHSTTSGETDPTTIFPCKECGKVFFKIKSRNAHMKTHRQQEEQQRQKAQKAAFAAEMAATIERTTGPVGAPGLLPLDQLSLIKPIKDVDILDDDVVQQLGGVMEEAEVVDTDLLLDDQDSVLLQGDAEL |
| 1944 | sp|Q96A61|TRI52\_HUMAN | MAGYATTPSPMQTLQEEAVCAICLDYFKDPVSISCGHNFCRGCVTQLWSKEDEEDQNEEEDEWEEEEDEEAVGAMDGWDGSIREVLYRGNADEELFQDQDDDELWLGDSGITNWDNVDYMWDEEEEEEEEDQDYYLGGLRPDLRIDVYREEEILEAYDEDEDEELYPDIHPPPSLPLPGQFTCPQCRKSFTRRSFRPNLQLANMVQIIRQMCPTPYRGNRSNDQGMCFKHQEALKLFCEVDKEAICVVCRESRSHKQHSVLPLEEVVQEYQEIKLETTLVGILQIEQESIHSKAYNQ |
| 1945 | sp|Q8N7C3|TRIMM\_HUMAN | MVCGIQEAAENYRKLFQEILNTSREKLEAAKSILTDEQERMAMIQEEEQNFKKMIESEYSMRLRLLNEECEQNLQRQQECISDLNLRETLLNQAIKLATELEEMFQEMLQRLGRVGRENMEKLKESEARASEQVRSLLKLIVELEKKCGEGTLALLKNAKYSLERSKSLLLEHLEPAHITDLSLCHIRGLSSMFRVLQRHLTLDPETAHPCLALSEDLRTMRLRHGQQDGAGNPERLDFSAMVLAAESFTSGRHYWEVDVEKATRWQVGIYHGSADAKGSTARASGEKVLLTGSVMGTEWTLWVFPPLKRLFLEKKLDTVGVFLDCEHGQISFYNVTEMSLIYNFSHCAFQGALRPVFSLCIPNGDTSPDSLTILQHGPSCDATVSP |
| 1946 | sp|Q9Y606|TRUA\_HUMAN | MGLQLRALLGAFGRWTLRLGPRPSCSPRMAGNAEPPPAGAACPQDRRSCSGRAGGDRVWEDGEHPAKKLKSGGDEERREKPPKRKIVLLMAYSGKGYHGMQRNVGSSQFKTIEDDLVSALVRSGCIPENHGEDMRKMSFQRCARTDKGVSAAGQVVSLKVWLIDDILEKINSHLPSHIRILGLKRVTGGFNSKNRCDARTYCYLLPTFAFAHKDRDVQDETYRLSAETLQQVNRLLACYKGTHNFHNFTSQKGPQDPSACRYILEMYCEEPFVREGLEFAVIRVKGQSFMMHQIRKMVGLVVAIVKGYAPESVLERSWGTEKVDVPKAPGLGLVLERVHFEKYNQRFGNDGLHEPLDWAQEEGKVAAFKEEHIYPTIIGTERDERSMAQWLSTLPIHNFSATALTAGGTGAKVPSPLEGSEGDGDTD |
| 1947 | sp|Q6R6M4|U17L2\_HUMAN | MEDDSLYLGGEWQFNHFSKLTSSRPDAAFAEIQRTSLPEKSPLSSEARVDLCDDLAPVARQLAPRKKLPLSSRRPAAVGAGLQNMGNTCYENASLQCLTYTPPLANYMLSREHSQTCQRPKCCMLCTMQAHITWALHSPGHVIQPSQALAAGFHRGKQEDAHEFLMFTVDAMKKACLPGHKQVDHHSKDTTLIHQIFGGCWRSQIKCLHCHGISDTFDPYLDIALDIQAAQSVKQALEQLVKPEELNGENAYHCGLCLQRAPASKTLTLHTSAKVLILVLKRFSDVTGNKLAKNVQYPECLDMQPYMSQQNTGPLVYVLYAVLVHAGWSCHDGHYFSYVKAQEGQWYKMDDAKVTACSITSVLSQQAYVLFYIQKSEWERHSESVSRGREPRALGAEDTDRRATQGELKRDHPCLQAPELDERLVERATQESTLDHWKFPQEQNKTKPEFNVRKVEGTLPPNVLVIHQSKYKCGMKNHHPEQQSSLLNLSSTTRTDQESVNTGTLASLQGRTRRSKGKNKHSKRALLVCQ |
| 1948 | sp|P49816|TSC2\_RAT | MAKPTSKDSGLKEKFKILLGLGTSRPNPRCAEGKQTEFIITAEILRELSGECGLNNRIRMIGQICDVAKTKKLEEHAVEALWKAVSDLLQPERPPEARHAVLALLKAIVQGQGDRLGVLRALFFKVIKDYPSNEDLHERLEVFKALTDNGRHITYLEEELAEFVLQWMDVGLSSEFLLVLVNLVKFNSCYLDEYIAPMVHMICLLCIRTVSSVDIEVSLQVLDAVVCYNCLPAESLPLFIITLCRTVNVKELCEPCWKLMRNLLGTHLGHSAIYNMCRIMENRSYMEDAPLLRGAVFFVGMALWGAHRLYSLKNSPTSVLPSFYEAMTCPNEVVSYEIVLSITRLIKKYRKELQAVTWDILLDIIERLLQQLQNLDSPELRTIVHDLLTTVEELCDQNEFHGSQERYYELVESYADQRPESSLLNLITYRAQSIHPAKDGWIQNLQLLMERFFRNECRSAVRIKVLDVLSFVLLINRQFYEEELINSVVISQLSHIPEDKDHQVRKLATQLLVDLAEGCHTHHFNSLLDIIEKVMARSLSPPLELEERDLAVYSASLEDVKTAVLGLLVILQTKLYTLPASHATRVYETLISHIQLHYKHGYSLPIASSIRLQAFDFLLLLRADSLHRLGLPNKDGVVRFSPYCLCDCAELDRASEKKASGPLSPPTGPPSPVPTGPAVRLGHLPYSLLFRVLLQCLKQETDWKVLKLVLSKLPESLRYKVLIFTSPCSVDQLSSALCSMLSAPKTLERLRGTPEGFSRTDLHLAVVPVLTALISYHNYLDKTRQREMVYCLEQGLIYRCASQCVVALAICSVEMPDIIIKALPVLVVKLTHISATASMAIPLLEFLSTLARLPHLYRNFAAEQYASVFAISLPYTNPSKFNQYIVCLAHHVIAMWFIRCRLPFRKDFVPYITKGLRSNVLLSFDDTPEKDKFRARSTSLNERPKSLRIARAPKQGLNNSPPVKEFKESCAAEAFRCRSISVSEHVVRSRIQTSLTSASLGSADENSMAQADDNLKNLHLELTETCLDMMARYVFSNFTAVPKRSPVGEFLLAGGRTKTWLVGNKLVTVTTSVGTGTRSLLGLDSGDLQGGSASSSDPGTHVRQTKEAPAKLESQAGQQVSRGARDRVRSMSGGHGLRVGVLDTSAPYTPGGPASLGAQAAPAARPEKPCAGAQLPAAEKANLAAYVPLLTQGWAEILVRRPTGNTSWLMSLENPLSPFSSDINNMPLQELSNALMAAERFKEHRDTALYKSLSVPAAGTAKPPTLPRSNTVASFSSLYQPSCQGQLHRSVSWADSAVVLEEGSPGEAHVPVEPPELEDFEAALGTDRHCQRPDAYSRSSSASSQEEKSHLEELAAGGIPIERAISSEGARPTVDLSFQPSQPLSKSSSSPELQTLQDILGDLGDKTDIGRLSPEAKVRSQSGILDGEAATWSAPGEESRITVPPEGPLPSSSPRSPSGLRPRGYTISDSAPSRRGKRVERDNFKSRTAASSAEKVPGINPSFVFLQLYHSPFCGDESNKPILLPNESFERSVQLLDQIPSYDTHKIAVLYVGEGQSSSELAILSNEHGSYRYTEFLTGLGRLIELKDCQPDKVYLGGLDVCGEDGQFTYCWHDDIMQAVFHIATLMPTKDVDKHRCDKKRHLGNDFVSIIYNDSGEDFKLGTIKGQFNFVHVIITPLDYKCNLLTLQCRKDMEGLVDTSVAKIVSDRNLSFVARQMALHANMASQVHHRRSNPTDIYPSKWIARLRHIKRLRQRIREEVHYSNPSLPLMHPPAHTKVPAQAPTEATPTYETGQRKRLISSVDDFTEFV |
| 1949 | sp|Q11098|TSP17\_CAEEL | MATERDGGGCLRVAVSIFSIYYWLSALGHVFLGLWMLLDPKRNYILDLVHFSENDPLLKASAYVSLVCGCAQLLVGFLGLCGAVNRSRFLLLAFVMFLIGTFLADVAMGTLSLFYKDKFSNNYMGVYLKNLTYNRYSRDRWVLPLMDTIQFYVYSVKENVREIVKSKYGVMTSEPENKMVTEFIDKLQFYEKCCGSLGPTDYISSRWSQSTNQDSEEIESPLFPVSCCTQITGASALNPLAKSYARCQQIGANRQWRHAVGCSERLMSWFNEQIWIFVGFGFGSALTMMLGICLSCCLISKIRIYHVIRDDY |
| 1950 | sp|Q9VM92|TTL3B\_DROME | MTTQNTTPAGFTGNRNRYYNPVSKIQSLIHNLDAELVQLCKQCSVQKPLTSLNNSTSLGSHFSNFGALGGGSGSKTMGGSSSMGSNNFSPDSIGNLLARVRASTPLPRTVTSSPTAPEAQKRQMRNVYRTRVIDAYRNRRIFTVYGNYHTVRRALMRRGWLEKLPASRHAKLQSMSEDALLEHARRGNDYEAVVISKMINHFPAFFIWQGKGQRDLCAEVRPFRNRVRRSQFLDFSTKVGLVGCAEQERWYREDGVCGMSYPRFYRLGGNNLEERMAFIEDYQQTQARSLLLYVREHQPAELISENGTIFSTTLDFALGKVKKMVRHAEHYSLDDARIKPPTPAEIVENQTFMVQSTDVLKSNAKFKVSEKVMAEYARLAGLYLDQIESLRPDYRWDGSRNLWILKPGYQSRGIGIVIRSSLDDILQWTSNNQNKKYIVQKYIERPLLIYRTKFDIRQYMLLTITDTKVSIWTYRDCYLRFSSQEFTMDDLRESIHLTNNSVQKRYKNKTNRDSRLPKNNMWSLDQFKNYLRIMGAPDGSWSKTYNGFKQNLVAVVMASLDETELLQNAFELYGCDFMLDEHYNPILIEINSTPDLSPSTEITARICPMVLKDCIRVVVDLPKNPTAATGLFELAFEVNYSINKGADGKPLELNGKQMTLFENMPRMRNSPRTRLLRKILNNVKTSTTKKVEKVVEAPAKNVKNPTAKITKKKKLSASAGSSTAASAQPSTQNLTTKLILNPATRENLALQYTAPK |
| 1951 | sp|P00760|TRY1\_BOVIN | MKTFIFLALLGAAVAFPVDDDDKIVGGYTCGANTVPYQVSLNSGYHFCGGSLINSQWVVSAAHCYKSGIQVRLGEDNINVVEGNEQFISASKSIVHPSYNSNTLNNDIMLIKLKSAASLNSRVASISLPTSCASAGTQCLISGWGNTKSSGTSYPDVLKCLKAPILSDSSCKSAYPGQITSNMFCAGYLEGGKDSCQGDSGGPVVCSGKLQGIVSWGSGCAQKNKPGVYTKVCNYVSWIKQTIASN |
| 1952 | sp|A4Q9F0|TTLL7\_MOUSE | MPSLPQDGVIQGSSPVDLGTELPYQCTMKRKVRKKKKKGIITANVAGTKFEIVRLVIDEMGFMKTPDEDETSNLIWCDAAVQQEKITDLQNYQRINHFPGMGEICRKDFLARNMTKMIKSRPMDYTFVPRTWIFPSEYTQFQNYVKELKKKRKQKTFIVKPANGAMGHGISLIRNGDKVPSQDHLIVQEYIEKPFLMEGYKFDLRIYILVTSCDPLKIFLYHDGLVRMGTEKYIPPNESNLTQLYMHLTNYSVNKHNERFERNETEDKGSKRSIKWFTEFLQANQHDVTKFWSDISELVVKTLIVAEPHVLHAYRMCRPGQPPGSESVCFEVLGFDILLDRKLKPWLLEINRAPSFGTDQKIDYDVKRGVLLNALKLLNIRTSDKRKNLAKQKAEAQRRLYGQNPVRRLSPGSSDWEQQRHQLERRKEELKERLLQVRKQVSQEEHENRHMGNYRRIYPPEDKALLEKYEGLLAVAFQTFLSGRAASFQREMNNPLKKMREEDLLDLLEQCEIDDEKLMGKTGRVRGPKPLCCMPECAEVTKKQKYYGSSDSSYDSSSSSSNSELDENEKELCQKRLDQVPYSLKHTSHCKIIQQPSGSHNLIYSESPVYLTTLVFLSEFPDSMRRSVSCPRSISAHLPSRGDVRPFSSQQVIPLARPTSASRSHSLNRASSYARHLPHGSDTGSTNTLNESLRQLKTKEQEDDLTSQTLFVLKDMRIRFPGKSDAESELLIEDIMDNWKHYKTKVASYWLIKLDSVKQRKVLDIVKSSIRTVLPRIWRVPDAEELSLYRIFNRVFNRLLWSHGQGLWSCFCDSGSSWESIFSKSPEVVTPLQLQCCQRLVELCKQCLLVVYKYTTETRGPISGIGPDWGNSRYLLPGSTQFLMRSPLYNMKYNSPGMTRSNVLFTSRYGRL |
| 1953 | sp|P22217|TRX1\_YEAST | MVTQFKTASEFDSAIAQDKLVVVDFYATWCGPCKMIAPMIEKFSEQYPQADFYKLDVDELGDVAQKNEVSAMPTLLLFKNGKEVAKVVGANPAAIKQAIAANA |
| 1954 | sp|O54863|TSSK2\_MOUSE | MDDAAVLRKKGYIVGINLGKGSYAKVKSAYSERLKFNVAVKIIDRKKTPTDFVERFLPREMDILATVNHRSIIKTYEIFETSDGRIYIVMELGVQGDLLEFIKCRGALHEDVARKMFRQLSSAVKYCHDLDVVHRDLKCENLLLDKDFNIKLSDFGFSKRCLRDGSGRIVLSKTFCGSAAYAAPEVLQGIPYQPKVYDIWSLGVILYIMVCGSMPYDDSDIKKMLRIQKEHRVDFPRSKNLTGECKDLIYRILQPDVNRRLHIDEILSHSWLQPPKPKAMSSASFKREGEGKYRADCKLDTRPGSRPEHRPDHKLATKPQQRMLVTPENEDRMEDRLAETSRAKDHHISGAEVEKAST |
| 1955 | sp|Q5T6F2|UBAP2\_HUMAN | MMTSVSSDHCRGAREKPQISAAQSTQPQKQVVQATAEQMRLAQVIFDKNDSDFEAKVKQLMEVTGKNQDECIVALHDCNGDVNKAINILLEGNSDTTSWETVGCKKKNFAKENSENKENREKKSEKESSRGRGNNNRKGRGGNRGREFRGEENGIDCNQVDKPSDRGKRARGRGFGRGRGRGAGRFSTQGMGTFNPADYSDSTSTDVCGTKLVVWEAAQNGADEGTELASNTHNIAQDLSNKSSYGLKGAWKNSVEEWTTEDWTEDLSETKVFTASSAPAENHILPGQSIDLVALLQKPVPHSQASEANSFETSQQQGFGQALVFTNSQHNNQMAPGTGSSTAVNSCSPQSLSSVLGSGFGELAPPKMANITSSQILDQLKAPSLGQFTTTPSTQQNSTSHPTTTTSWDLKPPTSQSSVLSHLDFKSQPEPSPVLSQLSQRQQHQSQAVTVPPPGLESFPSQAKLRESTPGDSPSTVNKLLQLPSTTIENISVSVHQPQPKHIKLAKRRIPPASKIPASAVEMPGSADVTGLNVQFGALEFGSEPSLSEFGSAPSSENSNQIPISLYSKSLSEPLNTSLSMTSAVQNSTYTTSVITSCSLTSSSLNSASPVAMSSSYDQSSVHNRIPYQSPVSSSESAPGTIMNGHGGGRSQQTLDTPKTTGPPSALPSVSSLPSTTSCTALLPSTSQHTGDLTSSPLSQLSSSLSSHQSSLSAHAALSSSTSHTHASVESASSHQSSATFSTAATSVSSSASSGASLSSSMNTANSLCLGGTPASASSSSSRAAPLVTSGKAPPNLPQGVPPLLHNQYLVGPGGLLPAYPIYGYDELQMLQSRLPVDYYGIPFAAPTALASRDGSLANNPYPGDVTKFGRGDSASPAPATTPAQPQQSQSQTHHTAQQPFVNPALPPGYSYTGLPYYTGMPSAFQYGPTMFVPPASAKQHGVNLSTPTPPFQQASGYGQHGYSTGYDDLTQGTAAGDYSKGGYAGSSQAPNKSAGSGPGKGVSVSSSTTGLPDMTGSVYNKTQTFDKQGFHAGTPPPFSLPSVLGSTGPLASGAAPGYAPPPFLHILPAHQQPHSQLLHHHLPQDAQSGSGQRSQPSSLQPKSQASKPAYGNSPYWTN |
| 1956 | sp|P0CG48|UBC\_HUMAN | MQIFVKTLTGKTITLEVEPSDTIENVKAKIQDKEGIPPDQQRLIFAGKQLEDGRTLSDYNIQKESTLHLVLRLRGGMQIFVKTLTGKTITLEVEPSDTIENVKAKIQDKEGIPPDQQRLIFAGKQLEDGRTLSDYNIQKESTLHLVLRLRGGMQIFVKTLTGKTITLEVEPSDTIENVKAKIQDKEGIPPDQQRLIFAGKQLEDGRTLSDYNIQKESTLHLVLRLRGGMQIFVKTLTGKTITLEVEPSDTIENVKAKIQDKEGIPPDQQRLIFAGKQLEDGRTLSDYNIQKESTLHLVLRLRGGMQIFVKTLTGKTITLEVEPSDTIENVKAKIQDKEGIPPDQQRLIFAGKQLEDGRTLSDYNIQKESTLHLVLRLRGGMQIFVKTLTGKTITLEVEPSDTIENVKAKIQDKEGIPPDQQRLIFAGKQLEDGRTLSDYNIQKESTLHLVLRLRGGMQIFVKTLTGKTITLEVEPSDTIENVKAKIQDKEGIPPDQQRLIFAGKQLEDGRTLSDYNIQKESTLHLVLRLRGGMQIFVKTLTGKTITLEVEPSDTIENVKAKIQDKEGIPPDQQRLIFAGKQLEDGRTLSDYNIQKESTLHLVLRLRGGMQIFVKTLTGKTITLEVEPSDTIENVKAKIQDKEGIPPDQQRLIFAGKQLEDGRTLSDYNIQKESTLHLVLRLRGGV |
| 1957 | sp|Q9SEU6|TRXM4\_ARATH | MASLLDSVTVTRVFSLPIAASVSSSSAAPSVSRRRISPARFLEFRGLKSSRSLVTQSASLGANRRTRIARGGRIACEAQDTTAAAVEVPNLSDSEWQTKVLESDVPVLVEFWAPWCGPCRMIHPIVDQLAKDFAGKFKFYKINTDESPNTANRYGIRSVPTVIIFKGGEKKDSIIGAVPRETLEKTIERFLVE |
| 1958 | sp|Q5XJA0|TYDP2\_DANRE | MSALGESRTRLCDQFAFVSGSDSAVAQCYLAENEWDMERALNSFFEAHMDSVFDEEAEKTEVTGNKRKDDTAEASGTKKKLKTDNADCIDLTAEEPTCSITVNSKENQAENGTAKSEVEDSKLSIISWNVDGLDTLNLADRARGLCSYLALYTPDVVFLQELIPAYVQYLKKRAVSYLFFEGSDDGYFTGIMLRKSRVKFLESEIICFPTTQMMRNLLIAQVTFSGQKLYLMTSHLESCKNQSQERTKQLRVVLQKIKEAPEDAIVIFAGDTNLRDAEVANVGGLPAGVCDVWEQLGKQEHCRYTWDTKANSNKTVPYVSRCRFDRIFLRSAKTAPPVTPDHMALIGMEKLDCGRYTSDHWGIYCTFNT |
| 1959 | sp|P52483|UB2E3\_MOUSE | MSSDRQRSDDESPSTSSGSSDADQRDPAAPEPEEQEERKPSATQQKKNTKLSSKTTAKLSTSAKRIQKELAEITLDPPPNCSAGPKGDNIYEWRSTILGPPGSVYEGGVFFLDITFSSDYPFKPPKVTFRTRIYHCNINSQGVICLDILKDNWSPALTISKVLLSICSLLTDCNPADPLVGSIATQYLTNRAEHDRIARQWTKRYAT |
| 1960 | sp|P18459|TY3H\_DROME | MMAVAAAQKNREMFAIKKSYSIENGYPSRRRSLVDDARFETLVVKQTKQTVLEEARSKANDDSLEDCIVQAQEHIPSEQDVELQDEHANLENLPLEEYVPVEEDVEFESVEQEQSESQSQEPEGNQQPTKNDYGLTEDEILLANAASESSDAEAAMQSAALVVRLKEGISSLGRILKAIETFHGTVQHVESRQSRVEGVDHDVLIKLDMTRGNLLQLIRSLRQSGSFSSMNLMADNNLNVKAPWFPKHASELDNCNHLMTKYEPDLDMNHPGFADKVYRQRRKEIAEIAFAYKYGDPIPFIDYSDVEVKTWRSVFKTVQDLAPKHACAEYRAAFQKLQDEQIFVETRLPQLQEMSDFLRKNTGFSLRPAAGLLTARDFLASLAFRIFQSTQYVRHVNSPYHTPEPDSIHELLGHMPLLADPSFAQFSQEIGLASLGASDEEIEKLSTVYWFTVEFGLCKEHGQIKAYGAGLLSSYGELLHAISDKCEHRAFEPASTAVQPYQDQEYQPIYYVAESFEDAKDKFRRWVSTMSRPFEVRFNPHTERVEVLDSVDKLETLVHQMNTEILHLTNAISKLRRPF |
| 1961 | sp|Q6RX08|TRPV1\_RABIT | MKRWVSLDSGESEDPLPEDTCPDLLDGDSNAKPPPAKPHIFSTAKSRSRLFGKGDSEETSPMDCSYEEGELAPCPAITVSSVIIVQRSGDGPTCARQLSQDSVAAAGAEKPLKLYDRRRIFEAVAQNNCQELESLLCFLQRSKKRLTDSEFKDPETGKTCLLKAMLNLHSGQNDTIPLLLEIARQTDSLKEFVNASYTDSYYKGQTALHIAIERRNMALVTLLVENGADVQAAANGDFFKKTKGRPGFYFGELPLSLAACTNQLAIVKFLLQNSWQPADISARDSVGNTVLHALVEVADNTPDNTKFVTSMYNEILILGAKLHPTLKLEELINKKGLTPLALAAGSGKIGVLAYILQREILEPECRHLSRKFTEWAYGPVHSSLYDLSCIDTCERNSVLEVIAYSSSETPNRHDMLLVEPLNRLLQDKWDRVVKRIFYFNFFVYCLYMIIFTTAAYYRPVDGLPPYKLRNLPGDYFRVTGEILSVAGGVYFFFRGIQYFLQRRPSMKALFVDSYSEMLFFVQALFMLATVVLYFSHCKEYVATMVFSLALGWINMLYYTRGFQQMGIYAVMIEKMILRDLCRFMFVYLVFLFGFSTAVVTLIEDGKNSSTSAESTSHRWRGFGCRSSDSSYNSLYSTCLELFKFTIGMGDLEFTENYDFKAVFIILLLAYVILTYILLLNMLIALMGETVNKIAQESKSIWKLQRAITILDTEKGFLKCMRKAFRSGKLLQVGYTPDGKDDCRWCFRVDEVNWTTWNTNVGIINEDPGNCEGVKRTLSFSLRSGRVSGRNWKNFALVPLLRDASTRDRHPXPPEDVHLRPFVGSLKPGDAELFKDSVAAAEK |
| 1962 | sp|P00898|TRPE\_SALTY | MQTPKPTLELLTCDAAYRENPTALFHQVCGDRPATLLLESADIDSKDDLKSLLLVDSALRITALGDTVTIQALSDNGASLLPLLDTALPAGVENDVLPAGRVLRFPPVSPLLDEDARLCSLSVFDAFRLLQGVVNIPTQEREAMFFGGLFAYDLVAGFEALPHLEAGNNCPDYCFYLAETLMVIDHQKKSTRIQASLFTASDREKQRLNARLAYLSQQLTQPAPPLPVTPVPDMRCECNQSDDAFGAVVRQLQKAIRAGEIFQVVPSRRFSLPCPSPLAAYYVLKKSNPSPYMFFMQDNDFTLFGASPESSLKYDAASRQIEIYPIAGTRPRGRRADGTLDRDLDSRIELDMRTDHKELSEHLMLVDLARNDLARICTPGSRYVADLTKVDRYSYVMHLVSRVVGELRHDLDALHAYRACMNMGTLSGAPKVRAMQLIADAEGQRRGSYGGAVGYFTAHGDLDTCIVIRSALVENGIATVQAGAGIVLDSVPQSEADETRNKARAVLRAIATAHHAQETF |
| 1963 | sp|Q86UX7|URP2\_HUMAN | MAGMKTASGDYIDSSWELRVFVGEEDPEAESVTLRVTGESHIGGVLLKIVEQINRKQDWSDHAIWWEQKRQWLLQTHWTLDKYGILADARLFFGPQHRPVILRLPNRRALRLRASFSQPLFQAVAAICRLLSIRHPEELSLLRAPEKKEKKKKEKEPEEELYDLSKVVLAGGVAPALFRGMPAHFSDSAQTEACYHMLSRPQPPPDPLLLQRLPRPSSLSDKTQLHSRWLDSSRCLMQQGIKAGDALWLRFKYYSFFDLDPKTDPVRLTQLYEQARWDLLLEEIDCTEEEMMVFAALQYHINKLSQSGEVGEPAGTDPGLDDLDVALSNLEVKLEGSAPTDVLDSLTTIPELKDHLRIFRIPRRPRKLTLKGYRQHWVVFKETTLSYYKSQDEAPGDPIQQLNLKGCEVVPDVNVSGQKFCIKLLVPSPEGMSEIYLRCQDEQQYARWMAGCRLASKGRTMADSSYTSEVQAILAFLSLQRTGSGGPGNHPHGPDASAEGLNPYGLVAPRFQRKFKAKQLTPRILEAHQNVAQLSLAEAQLRFIQAWQSLPDFGISYVMVRFKGSRKDEILGIANNRLIRIDLAVGDVVKTWRFSNMRQWNVNWDIRQVAIEFDEHINVAFSCVSASCRIVHEYIGGYIFLSTRERARGEELDEDLFLQLTGGHEAF |
| 1964 | sp|Q6UW78|UQCC3\_HUMAN | MDSLRKMLISVAMLGAGAGVGYALLVIVTPGERRKQEMLKEMPLQDPRSREEAARTQQLLLATLQEAATTQENVAWRKNWMVGGEGGAGGRSP |
| 1965 | sp|A7E320|UHRF1\_BOVIN | MWIQVRTMDGKVAHTVDSLSRLTKVEELRKKIQELFHVEPGLQRLFYRGKQMEDGHTLFDYDVRLNDTIQLLVRQSLVLPVPVPSSSGGSKERDSELSDTDSGCGLAQSESDKSSNSGEAANEPEGKADEDECDETELGLYKVGEYVDARDTNMGAWFEAKVIRVTRKAPAHDQPSSSSSKPEDDIIYHVTYDDYPENGVVQMTSQNVRARARHTIKWEDLQVGQVVMVNYNPDLPKDRGFWYDAEILRKRETRTARELHANVRIGGDSLNDCRIVFVDEVFKIERPGEGNPMVENPMRRKSGPSCKHCKDDERKLCRMCACHVCGGKQDPDKQLMCDECDMAFHIYCLRPPLSSVPPEEEWYCPDCRIDSSEVVQAGEKLKESKKKAKMASATSSSQRDWGKGMACVGRTKECTIVPSNHFGPIPGIPVGTMWRFRVQVSESGVHRPHVAGIHGRSNHGAYSLVLAGGYEDDVDHGNSFTYTGSGGRDLSGNKRTAEQSCDQKLTNTNRALALNCFAPINDLKGAEAKDWRSGKPVRVVRNVKGRKHSKYAPIEGNRYDGIYKVVRYWPEKGKSGFLVWRFLLRRDDVEPGPWTKEGKDRIKKLGLTMQYPEGYLEALARKEKENSKQAALDKEEEDGEEGFTSPRKGKRKSKSAGGDGSSRGTPKKTKVEPYSLTTQQSSLIKEDKSNMKLWTEILKSLKDGPKFLSKVEETFQCICCQELVFRPITTVCQHNVCKDCLDRSFKAQVFSCPACRYDLGRSYAMTVNQPLQAVLSQLFPGYGSGR |
| 1966 | sp|P28274|URA7\_YEAST | MKYVVVSGGVISGIGKGVLASSTGMLMKTLGLKVTSIKIDPYMNIDAGTMSPLEHGECFVLDDGGETDLDLGNYERYLGVTLTKDHNITTGKIYSHVIAKERKGDYLGKTVQIVPHLTNAIQDWIERVAKIPVDDTGMEPDVCIIELGGTVGDIESAPFVEALRQFQFKVGKENFALIHVSLVPVIHGEQKTKPTQAAIKGLRSLGLVPDMIACRCSETLDKPTIDKIAMFCHVGPEQVVNVHDVNSTYHVPLLLLEQKMIDYLHARLKLDEISLTEEEKQRGLELLSKWKATTGNFDESMETVKIALVGKYTNLKDSYLSVIKALEHSSMKCRRKLDIKWVEATDLEPEAQESNKTKFHEAWNMVSTADGILIPGGFGVRGTEGMVLAARWARENHIPFLGVCLGLQIATIEFTRSVLGRKDSHSAEFYPDIDEKNHVVVFMPEIDKETMGGSMRLGLRPTFFQNETEWSQIKKLYGDVSEVHERHRHRYEINPKMVDELENNGLIFVGKDDTGKRCEILELKNHPYYIATQYHPEYTSKVLDPSKPFLGLVAASAGILQDVIEGKYDLEAGENKFNF |
| 1967 | sp|Q04179|URH1\_YEAST | MTVSKIPIWLDCDPGHDDAIAILLGCFHPAFNLLGISTCFGNAPPENTDYNARSLLTAMGKAQAIPVYKGAQRPWKREPHYAPDIHGISGLDGTSLLPKPTFEARTDKTYIEAIEEAILANNGEISFVSTGALTTLATVFRCKPYLKKSVKYISIMGGGLHGLGNCNPNLSAEFNVWIDPDAANYIFRDPDVKDKCIVVPLNLTHKAIATYKVNEMIYNEKNNSKLRELFLELFQFFAHTYKDMQGFESGPPIHDPVALMPLLEFYGWDPSSAVGFRYKRMDISCIDDVFNENSGKIIIEKEYPNDSDVGTIIGLDLNIQYFWDQIFEALNRADKMSTIG |
| 1968 | sp|P17993|UBIG\_ECOLI | MNAEKSPVNHNVDHEEIAKFEAVASRWWDLEGEFKPLHRINPLRLGYIAERAGGLFGKKVLDVGCGGGILAESMAREGATVTGLDMGFEPLQVAKLHALESGIQVDYVQETVEEHAAKHAGQYDVVTCMEMLEHVPDPQSVVRACAQLVKPGGDVFFSTLNRNGKSWLMAVVGAEYILRMVPKGTHDVKKFIKPAELLGWVDQTSLKERHITGLHYNPITNTFKLGPGVDVNYMLHTQNK |
| 1969 | sp|P20788|UCRI\_RAT | MLSVAARSGPFAPVLSATSRGVAGALRPLLQSAVPATSEPPVLDVKRPFLCRESLSGQAATRPLVATVGLNVPASVRYSHTDIKVPDFSDYRRAEVLDSTKSSKESSEARKGFSYLVTATTTVGVAYAAKNAVSQFVSSMSASADVLAMSKIEIKLSDIPEGKNMAFKWRGKPLFVRHRTKKEIDQEAAVEVSQLRDPQHDLERVKKPEWVILIGVCTHLGCVPIANAGDFGGYYCPCHGSHYDASGRIRKGPAPLNLEVPTYEFTSGDVVVVG |
| 1970 | sp|Q70J99|UN13D\_HUMAN | MATLLSHPQQRPPFLRQAIKIRRRRVRDLQDPPPQMAPEIQPPSHHFSPEQRALLYEDALYTVLHRLGHPEPNHVTEASELLRYLQEAFHVEPEEHQQTLQRVRELEKPIFCLKATVKQAKGILGKDVSGFSDPYCLLGIEQGVGVPGGSPGSRHRQKAVVRHTIPEEETHRTQVITQTLNPVWDETFILEFEDITNASFHLDMWDLDTVESVRQKLGELTDLHGLRRIFKEARKDKGQDDFLGNVVLRLQDLRCREDQWYPLEPRTETYPDRGQCHLQFQLIHKRRATSASRSQPSYTVHLHLLQQLVSHEVTQHEAGSTSWDGSLSPQAATVLFLHATQKDLSDFHQSMAQWLAYSRLYQSLEFPSSCLLHPITSIEYQWIQGRLKAEQQEELAASFSSLLTYGLSLIRRFRSVFPLSVSDSPARLQSLLRVLVQMCKMKAFGELCPNTAPLPQLVTEALQTGTTEWFHLKQQHHQPMVQGIPEAGKALLGLVQDVIGDLHQCQRTWDKIFHNTLKIHLFSMAFRELQWLVAKRVQDHTTVVGDVVSPEMGESLFQLYISLKELCQLRMSSSERDGVLALDNFHRWFQPAIPSWLQKTYNEALARVQRAVQMDELVPLGELTKHSTSAVDLSTCFAQISHTARQLDWPDPEEAFMITVKFVEDTCRLALVYCSLIKARARELSSGQKDQGQAANMLCVVVNDMEQLRLVIGKLPAQLAWEALEQRVGAVLEQGQLQNTLHAQLQSALAGLGHEIRTGVRTLAEQLEVGIAKHIQKLVGVRESVLPEDAILPLMKFLEVELCYMNTNLVQENFSSLLTLLWTHTLTVLVEAAASQRSSSLASNRLKIALQNLEICFHAEGCGLPPKALHTATFQALQRDLELQAASSRELIRKYFCSRIQQQAETTSEELGAVTVKASYRASEQKLRVELLSASSLLPLDSNGSSDPFVQLTLEPRHEFPELAARETQKHKKDLHPLFDETFEFLVPAEPCRKAGACLLLTVLDYDTLGADDLEGEAFLPLREVPGLSGSEEPGEVPQTRLPLTYPAPNGDPILQLLEGRKGDREAQVFVRLRRHRAKQASQHALRPAP |
| 1971 | sp|P55089|UCN1\_HUMAN | MRQAGRAALLAALLLLVQLCPGSSQRSPEAAGVQDPSLRWSPGARNQGGGARALLLLLAERFPRRAGPGRLGLGTAGERPRRDNPSLSIDLTFHLLRTLLELARTQSQRERAEQNRIIFDSVGK |
| 1972 | sp|G5EFD5|UNC71\_CAEEL | MICASKITMLGLLVMCTLGGVLGKVDIRQTTANKAFMETMRADGYEVVHPFQIRDKNERIGIDTRNYFLKAQEHYSHVTIVIRSNQLGRLKLVLERNNFIFLNQTAFHKLDADGERVIQNRVENCYYQGTVGGEESSFVALSSCNGLRGVISFANGTTFGIWPLDGGDRNSRRHPHILYKSEWSQEAKCGSSMAHAVGQRRMKKHVHKHRSHHHEHNKKRDVSKRTKYVEVALIADYEFMKARGLHDLDAISYMLESLNIADSMLSRDLNIRLSAVYVELWTDVQRIDLWEDIERTLSGVVDYASGHIYHIQKDASILFTAGSFANQEVSNAAIRSICTARSAVIVKGVEQFATHWNGELLAQSIGHLLGLEHDTTACSCEPSPECVMRQQPGRVGGGGGSPFSWQFSKCSVARMHGIWQDGNIQCLLNKPFQVSELRECGNGVVDGSEECDCGSRENCQDPCCDPLTCTLRPHAQCAAHHKCCHRCELRKAGDTCRSSKSPCDVAEQCDGKSGDCPPDGHLIDGTVCGTDGQCWRGNCSDSHQQCQKLWGREARVAEPVCFEQNTKGAEYANCGQRQADGTYHPCQIEDTRCGTLHCHSGSITPIDSSLKAFTFHFTENSHQIQCKSIASAAVGLTSDGTNCASGRVCVAGSCVEMSSVSSATACPTNNLALLCSGHGHCTTTARCVCFNGWSGVACDIRSNSSTYQGSMGFGEEGSGGSSQKSSERKTIMIPHLNIGTTLETATLFAILLGFGVFLLLCLVCLMLCYRRRSVVEIPKPSDEKDEESPDRQIKFGNMPSYREEKRKRKSNKKIYGALNRITEADERDSTSLRSRDSAGGSQQLVDRRNGAPVVVGGIRDPYAGEHIYAESSSNHLTRQFRGINSDGSYPLRSFGSWRSSAPISPASSSGQLTDVSTATTPLRLNKIGKFLKTLQSDDESPSPFSDHQSFTTGIGIGARLEQMQFGGGGDEELSAVEADHDVGSNTESSRGCEEPMDPGSWDSPTLVNGASSSSTSNNYNFRQSPSLFSDPFKLEMTNSMHN |
| 1973 | sp|Q8K0T7|UN13C\_MOUSE | MVASLFKSLILAYIHKLCKGMFTKKLGNTTKKKENRQQKKDQDFPTAGHTKPPKLSNALKSTVKKIAKCSSTRNFSIEDEEGHKDFSLSPTFSYRVAIANGLQTAVTNSDEDLLQELSSIESSYSESFNELRSSTENQVQSTHTMPVRRNRKSSSSLAPSEGSSDGERTLHTLKLGALRKLRKWKKSQECVSSDSELSTVKKTWGIRSKSLDRTARNPKTNVLEPGFSSSGCISQTHDVMEMIFKELQGISQIETELSELRGHVNALKYSIDEISSSVEVVQSEIEQLRTGFVQARRETRDIHDYIKHLGHMGSKVSLRFLNVPEERHEYVESVVYQILIDKMGFSDVPNAIKIEFAQRIGQQRDCPNAKPRPILVYFETPQQRDSVLKKSYKLKGTGIGISTDILTYDIRERKEKGVLPSSQTYESMDMKLSTPEPKAKKNAWLSPNDSDRELESDLSRSSYADSPAKGSSSKSSSKSHSARSKNKAANSRTSQKSDYNKRPSQPPASSTPEKQTPHYVEATPPLWHSQSDFFTLKLSRSESDFSKLCQSYSEDFSESQFFCRTNGSSLLSSSDRELWQRKQEGMPALYHRLQDQGLDETIPAVPGQAEIENTETVDSGMSNSMVCASGDRSNYSGSQLSLHEDLSPWKEWNQAGQGTDDVGLDSSTQEPFDYDTNSLSDQQLDLSSKDLDDLGKCHSDLQDDSESYDLTQDDNSSPCPGLDNEPQGQWVGQYDSYQEANSNDLYPNQSHPSMMYRSQSELQSDDSEGAQPKSWHSRLSIDLSDKTFKFPKFGSTLQRAKSALEVVWNKSTQSLSGCEDSGSSLMGRFRTLSQSTANESSTTLDSDIYTEPYYYKAEEEEDYCEPVADSETDYVEVMEQVLAKLENRTSITEVNEHIKDYDHPSYETPYETPQDEGYDGQADDIISEGELETLNEPAVEMELAEDENQNLPAESLEVMKPKRIRPSFKEAALRAYKKQMAELEEKILAGDSSSMDEKARIVSGNDLDASKFSALQVFGGAGRGLYGIDSMPDLRRKKTLPIVRDVAMTLAARKSGLSLAMVIRTSLNNEELKMHVFRKTLQALIYPISSTTPHNFEVWTATTPTYCYECEGLLWGIARQGMKCLECGVKCHEKCQDLLNADCLQRAAEKSSKHGAEDKTQTIITAMKERMKIRERNRPEVFEVIQEMFQISKEDFVQYTKAAKQSVLDGTSKWSAKITITVVSAQGLQAKDKTGSSDPYVTVQVGKNKRRTKTIFGNLNPVWDEKFFFECHNSTDRIKVRVWDEDDDIKSRVKQHFKKESDDFLGQTIVEVRTLSGEMDVWYNLEKRTDKSAVSGAIRLKINVEIKGEEKVAPYHIQYTCLHENLFHYLTEVKSNGSVKIPEVKGDEAWKVFFDDASQEIVDEFAMRYGVESIYQAMTHFSCLSSKYMCPGVPAVMSALLANINAFYAHTTVSTNVQVSASDRFAATNFGREKFIKLLDQLHNSLRIDLSKYRENFPASNSERLQDLKSTVDLLTSITFFRMKVLELQSPPKASAVVKDCVRACLDSTYKYIFDNCHELYSQLIDPSKKQDVPREDQGPTTKNLDFWPQLITLMVTIIDEDKTAYTPVLNQFPQELNMGKISAEIMWSLFALDMKYALEEHEKQRLCKSTDYMNLHFKVKWFYNEYVRELPAFKDAVPEYSLWFEPFVMQWLDENEDVSMEFLHGALGRDKKDGFQQTSDHALFSCSVVDVFAQLNQSFEIIKKLECPNPEALSHLMRRFAKTINKVLVQYAAIVSNDFSSYCDKETVPCILMNNIQQLRVQLEKMFESMGGKELDPEASTILKELQIKLNGVLDALSITYGESFQLTIEECIKQMGAELNQMRANGNSTANKNSAAMDAEIVLRPLMDFLDKTLSLSAKICEKTVLKRVLKELWKLVLNKIEKQIVLPPLTDQTGPQMIFIAAKDLGQLSKLKEHMIREDAKGLTPRQCAIVEVVLATIKQYFHAGGNGLKKNFLEKSPDLHSLRYALSLYTQTTDALIKKFIETQGSQSRSSKDAVGQISVHVDVTTTPGTGDHKVTVKVIAINDLNWQTTAMFRPFVEVCMLGPSLGDKKRKQGTKTKSNTWSPKYNETFQFILGNENRPGAYELHLSVKDYCFAREDRIIGMTVIQLQNIAEKGSYGAWYPLLKNLSMDETGLTILRILSQRTSDDVAKEFVRLKSETRSIEESA |
| 1974 | sp|P41541|USO1\_BOVIN | MNFLRGVMGGQSAGPQHTEAETIQKLCDRVASSTLLDDRRNAVRALKSLSKKYRLEVGIQAMEHLIHVLQTDRSDSEIIGYALDTLYNIISNDEEEEVEENSTRQSEDLGSQFTEIFIKQQENVTLLLSLLEEFDFHVRWPGVKLLTSLLKQLGPQVQQIILVSPMGVSRLMDLLADSREVIRNDGVLLLQALTRSNGAIQKIVAFENAFERLLDIITEEGNSDGGIVVEDCLILLQNLLKNNNSNQNFFKEGSYIQRMKPWFEVGDENSGWSAQKVTNLHLMLQLVRVLVSPNNPPGATSSCQKAMFQCGLLQQLCTILMATGVPADILTETINTVSEVIRGCQVNQDYFASVNAPSNPPRPAIVVLLMSMVNERQPFVLRCAVLYCFQCFLYKNQKGQGEIVSTLLPSTIDATGNTVSAGQLLCGGLFSTDSLSNWCAAVALAHALQENATQKEQLLRVQLATSIGNPPVSLLQQCTNILSQGSKIQTRVGLLMLLCTWLSNCPIAVTHFLHNSANVPFLTGQIAENLGEEEQLVQGLCALLLGISIYFNDNSLETYMKEKLKQLIEKRIGKENFIEKLGFISKHELYSRASQKPQPNFPSPEYMIFDHEFTKLVKELEGVITKAIYKSSEEDKKEEEVKKTLEQHDSIVTHYKNMIREQDLQLEELKQQISTLKCQNEQLQTAVTQQVSQIQQHKDQYNLLKVQLGKDSQHQGPYTDGAQMNGVQPEEISRLREEIEELKSNRELLQSQLAEKDSLIENLKSSQLSPGTNEQSSATAGDSEQIAELKQELATLKSQLNSQSVEITKLQTEKQELLQKTEAFAKSAPVPGESETVIATKTTDVEGRLSALLQETKELKNEIKALSEERTAIKEQLDSSNSTIAILQNEKNKLEVDITDSKKEQDDLLVLLADQDQKIFSLKNKLKELGHPVEEEDELESGDQDDEDDEDEDDGKEQGHI |
| 1975 | sp|Q02931|UTP17\_YEAST | MTQSLGIEQYKLSVVSGGKPALNNLSSVTGNKNIARLSQDQRNYIIPFNNQIKVYSVETRQCVKTLKFANNSLLSGIFLQEEENNESIVKILLGDITVPQQEDAHLITVFTNNGHVIVLNYKGKLVESPKHFKISLADEKLANVFHSEGNYRILTTFKDPSQKAHNSLQSYRLYALTFDDAKKQFEVAHQAEWHNVILSNISSNGKLLAHMCKDVSTKDHEHKSISVVSLFDDSVNLSFPLGSILSSQTQSLSYNTRYVSSMAIDNMGQQLAVGFASGVISIVSLADLQIRLLKWHIDSVLSLSFSHDGSYLLSGGWEKVMSLWQLETNSQQFLPRLNGIIIDCQVLGPQGNYYSLILQMTENNSNSDYQFLLLNASDLTSKLSINGPLPVFNSTIKHIQQPISAMNTKNSNSITSLNHSKKKQSRKLIKSRRQDFTTNVEINPINKNLYFPHISAVQIFDFYKNEQVNYQYLTSGVNNSMGKVRFELNLQDPIITDLKFTKDGQWMITYEIEYPPNDLLSSKDLTHILKFWTKNDNETNWNLKTKVINPHGISVPITKILPSPRSVNNSQGCLTADNNGGLKFWSFDSHESNWCLKKISLPNFNHFSNSVSLAWSQDGSLIFHGFDDKLQILDFDTFKKFESLENTKTVSEFTLDSEIQTVKLINDTNLIVATRTTLNAINLLRGQVINSFDLYPFVNGVYKNGHMDRLITCDERTGNIALVINQQLTDLDGVPTINYKSRIIIFDSDLSTKLGNFTHHEYISWIGWNYDTDFIFLDIESTLGVVGTTVNTQLSDEVNNEGILDGLVSNTITTSASNSDIFAEQLHKLSSRGKKSDTRDKNTNDNDEDEEDIALEFINGEKKDKLVNMNSFTSMFDNIQNVQMDTFFDRVMKVLT |
| 1976 | sp|Q01630|UNC33\_CAEEL | MFPFLAPIRSANHVEQQGTKYYVEITFLADSPYSRAPSSTGTEKSVIPTLRNLDDLETVSNKSRSSEGVNKLGSRPNSRSSAIVKKTSVSSLPTSARSEGKSSPIPVKDAIPAPARHKNKGLEMSSAMMELFGGGGSTSPAPSKRENPADAPSDRVVSNAKLSQPGPEWFEGFEQMDMTDIELPPDPNCPAEKVLRGEKSTPDFDSDWQEAKEDVLDPQSYPKSFNPAESLPGPDIGAGVDDEEEPEAEAQEMEEPQYESKVDEKDDDDNGSSSSKKGHPSEDGDSTRNGETPTDRRNSGAIEETADGESSAQSAAEKKNSGDDGNGGGGEMSILLVKNAQIVNDDAIFVADILIEDGIIQNVAPNLEAPEGAEVLDAAGKLALPAGIDVYTQVTDSSVDDLSTGCKSAIAGGTGTIVEVVRPRGAESVVSAVKRVKNQLEKSGISCHVALSVAITDFCEQEMSELVKNEGINSFVLDGVSLTDDKLLELFEHVKRLGALIRVVPENKSIVAMLEKKMLKLGVTGPEGFPQSRPESLEADRVSGVCVLGNLASCPISIVQVSSADSLAAIEKARASGALAHAEIASAAVTADGSALFSQDLRFASAHLTDVPLRRGAPDRMIGALSTQPLVVCTSGHRPVNSATRVAAKDFAIAQKGSTGAEERMAVVWERAVRSGRIDAMRFVAVTSTNAAKMFNMYPKKGRIAVGADADLVIWDASGKRVLESSRAQSSQENSMYDGLTVHSVVTATIVGGKIAYQNGEVREAPVAGGFLRLSPNSPYLFSMVGQRDKFANVERVEREASSQQQKPQQNGHHKNSGDFDRNRTKVMESSIDFGGSAANRPRNPPGGRTTGFW |
| 1977 | sp|Q5ZLR5|UCRI\_CHICK | MLSVAARSGPFAPYLSAAAHAVPGPLKALAPAALRAEKVVLDLKRPLLCRESMSGRSARRDLVAGISLNAPASVRYVHNDVTVPDFSAYRREDVMDATTSSQTSSEDRKGFSYLVTATACVATAYAAKNVVTQFISSLSASADVLALSKIEIKLSDIPEGKNVAFKWRGKPLFVRHRTQAEINQEAEVDVSKLRDPQHDLDRVKKPEWVILVGVCTHLGCVPIANSGDFGGYYCPCHGSHYDASGRIRKGPAPYNLEVPTYQFVGDDLVVVG |
| 1978 | sp|Q92890|UFD1\_HUMAN | MFSFNMFDHPIPRVFQNRFSTQYRCFSVSMLAGPNDRSDVEKGGKIIMPPSALDQLSRLNITYPMLFKLTNKNSDRMTHCGVLEFVADEGICYLPHWMMQNLLLEEGGLVQVESVNLQVATYSKFQPQSPDFLDITNPKAVLENALRNFACLTTGDVIAINYNEKIYELRVMETKPDKAVSIIECDMNVDFDAPLGYKEPERQVQHEESTEGEADHSGYAGELGFRAFSGSGNRLDGKKKGVEPSPSPIKPGDIKRGIPNYEFKLGKITFIRNSRPLVKKVEEDEAGGRFVAFSGEGQSLRKKGRKP |
| 1979 | sp|P57075|UBS3A\_HUMAN | MAAGETQLYAKVSNKLKSRSSPSLLEPLLAMGFPVHTALKALAATGRKTAEEALAWLHDHCNDPSLDDPIPQEYALFLCPTGPLLEKLQEFWRESKRQCAKNRAHEVFPHVTLCDFFTCEDQKVECLYEALKRAGDRLLGSFPTAVPLALHSSISYLGFFVSGSPADVIREFAMTFATEASLLAGTSVSRFWIFSQVPGHGPNLRLSNLTRASFVSHYILQKYCSVKPCTKQLHLTLAHKFYPHHQRTLEQLARAIPLGHSCQWTAALYSRDMRFVHYQTLRALFQYKPQNVDELTLSPGDYIFVDPTQQDEASEGWVIGISQRTGCRGFLPENYTDRASESDTWVKHRMYTFSLATDLNSRKDGEASSRCSGEFLPQTARSLSSLQALQATVARKSVLVVRHGERVDQIFGKAWLQQCSTPDGKYYRPDLNFPCSLPRRSRGIKDFENDPPLSSCGIFQSRIAGDALLDSGIRISSVFASPALRCVQTAKLILEELKLEKKIKIRVEPGIFEWTKWEAGKTTPTLMSLEELKEANFNIDTDYRPAFPLSALMPAESYQEYMDRCTASMVQIVNTCPQDTGVILIVSHGSTLDSCTRPLLGLPPRECGDFAQLVRKIPSLGMCFCEENKEEGKWELVNPPVKTLTHGANAAFNWRNWISGN |
| 1980 | sp|Q9HBG4|VPP4\_HUMAN | MVSVFRSEEMCLSQLFLQVEAAYCCVAELGELGLVQFKDLNMNVNSFQRKFVNEVRRCESLERILRFLEDEMQNEIVVQLLEKSPLTPLPREMITLETVLEKLEGELQEANQNQQALKQSFLELTELKYLLKKTQDFFETETNLADDFFTEDTSGLLELKAVPAYMTGKLGFIAGVINRERMASFERLLWRICRGNVYLKFSEMDAPLEDPVTKEEIQKNIFIIFYQGEQLRQKIKKICDGFRATVYPCPEPAVERREMLESVNVRLEDLITVITQTESHRQRLLQEAAANWHSWLIKVQKMKAVYHILNMCNIDVTQQCVIAEIWFPVADATRIKRALEQGMELSGSSMAPIMTTVQSKTAPPTFNRTNKFTAGFQNIVDAYGVGSYREINPAPYTIITFPFLFAVMFGDCGHGTVMLLAALWMILNERRLLSQKTDNEIWNTFFHGRYLILLMGIFSIYTGLIYNDCFSKSLNIFGSSWSVQPMFRNGTWNTHVMEESLYLQLDPAIPGVYFGNPYPFGIDPIWNLASNKLTFLNSYKMKMSVILGIVQMVFGVILSLFNHIYFRRTLNIILQFIPEMIFILCLFGYLVFMIIFKWCCFDVHVSQHAPSILIHFINMFLFNYSDSSNAPLYKHQQEVQSFFVVMALISVPWMLLIKPFILRASHRKSQLQASRIQEDATENIEGDSSSPSSRSGQRTSADTHGALDDHGEEFNFGDVFVHQAIHTIEYCLGCISNTASYLRLWALSLAHAQLSEVLWTMVMNSGLQTRGWGGIVGVFIIFAVFAVLTVAILLIMEGLSAFLHALRLHWVEFQNKFYVGDGYKFSPFSFKHILDGTAEE |
| 1981 | sp|Q13107|UBP4\_HUMAN | MAEGGGCRERPDAETQKSELGPLMRTTLQRGAQWYLIDSRWFKQWKKYVGFDSWDMYNVGEHNLFPGPIDNSGLFSDPESQTLKEHLIDELDYVLVPTEAWNKLLNWYGCVEGQQPIVRKVVEHGLFVKHCKVEVYLLELKLCENSDPTNVLSCHFSKADTIATIEKEMRKLFNIPAERETRLWNKYMSNTYEQLSKLDNTVQDAGLYQGQVLVIEPQNEDGTWPRQTLQSKSSTAPSRNFTTSPKSSASPYSSVSASLIANGDSTSTCGMHSSGVSRGGSGFSASYNCQEPPSSHIQPGLCGLGNLGNTCFMNSALQCLSNTAPLTDYFLKDEYEAEINRDNPLGMKGEIAEAYAELIKQMWSGRDAHVAPRMFKTQVGRFAPQFSGYQQQDSQELLAFLLDGLHEDLNRVKKKPYLELKDANGRPDAVVAKEAWENHRLRNDSVIVDTFHGLFKSTLVCPECAKVSVTFDPFCYLTLPLPLKKDRVMEVFLVPADPHCRPTQYRVTVPLMGAVSDLCEALSRLSGIAAENMVVADVYNHRFHKIFQMDEGLNHIMPRDDIFVYEVCSTSVDGSECVTLPVYFRERKSRPSSTSSASALYGQPLLLSVPKHKLTLESLYQAVCDRISRYVKQPLPDEFGSSPLEPGACNGSRNSCEGEDEEEMEHQEEGKEQLSETEGSGEDEPGNDPSETTQKKIKGQPCPKRLFTFSLVNSYGTADINSLAADGKLLKLNSRSTLAMDWDSETRRLYYDEQESEAYEKHVSMLQPQKKKKTTVALRDCIELFTTMETLGEHDPWYCPNCKKHQQATKKFDLWSLPKILVVHLKRFSYNRYWRDKLDTVVEFPIRGLNMSEFVCNLSARPYVYDLIAVSNHYGAMGVGHYTAYAKNKLNGKWYYFDDSNVSLASEDQIVTKAAYVLFYQRRDDEFYKTPSLSSSGSSDGGTRPSSSQQGFGDDEACSMDTN |
| 1982 | sp|Q13488|VPP3\_HUMAN | MGSMFRSEEVALVQLFLPTAAAYTCVSRLGELGLVEFRDLNASVSAFQRRFVVDVRRCEELEKTFTFLQEEVRRAGLVLPPPKGRLPAPPPRDLLRIQEETERLAQELRDVRGNQQALRAQLHQLQLHAAVLRQGHEPQLAAAHTDGASERTPLLQAPGGPHQDLRVNFVAGAVEPHKAPALERLLWRACRGFLIASFRELEQPLEHPVTGEPATWMTFLISYWGEQIGQKIRKITDCFHCHVFPFLQQEEARLGALQQLQQQSQELQEVLGETERFLSQVLGRVLQLLPPGQVQVHKMKAVYLALNQCSVSTTHKCLIAEAWCSVRDLPALQEALRDSSMEEGVSAVAHRIPCRDMPPTLIRTNRFTASFQGIVDAYGVGRYQEVNPAPYTIITFPFLFAVMFGDVGHGLLMFLFALAMVLAENRPAVKAAQNEIWQTFFRGRYLLLLMGLFSIYTGFIYNECFSRATSIFPSGWSVAAMANQSGWSDAFLAQHTMLTLDPNVTGVFLGPYPFGIDPIWSLAANHLSFLNSFKMKMSVILGVVHMAFGVVLGVFNHVHFGQRHRLLLETLPELTFLLGLFGYLVFLVIYKWLCVWAARAASAPSILIHFINMFLFSHSPSNRLLYPRQEVVQATLVVLALAMVPILLLGTPLHLLHRHRRRLRRRPADRQEENKAGLLDLPDASVNGWSSDEEKAGGLDDEEEAELVPSEVLMHQAIHTIEFCLGCVSNTASYLRLWALSLAHAQLSEVLWAMVMRIGLGLGREVGVAAVVLVPIFAAFAVMTVAILLVMEGLSAFLHALRLHWVEFQNKFYSGTGYKLSPFTFAATDD |
| 1983 | sp|P83512|VM1B1\_BOTAS | MIEVLLVTICLAVFPYQGSSIILESGNVNDYEVVYPRKVTELPKGAVQPKYEDAMQYEFKVNGEPVVLHLEKNKGLFSEDYSETHYSPDGRKIITYPSFEDHCYYHGRIENDADSTASISACNGLKGHFKLQGETYLIEPLKLSDSEAHAVYKYENVEKEDEAPKMCGVTETNWESYEPIKKASQSNLTPEQQRFSPRYIELAVVADHGIFTKYNSNLNTIRTRVHEMLNTVNGFYRSVDVHAPLANLEVWSKQDLIKVQKDSSKTLKSFGEWRERDLLPRISHDHAQLLTAVVFDGNTIGRAYTGGMCDPRHSVGVVRDHSKNNLWVAVTMAHELGHNLGIHHDTGSCSCGAKSCIMASVLSKVLSYEFSDCSQNQYETYLTNHNPQCILNKPLLTVSGNELLEAGE |
| 1984 | sp|Q09349|UBE4\_CAEEL | MIEDEKAGLQPMDISDASVFFFQADVESKDFLTSLFDCEGKSDDRMLRYADAIIDVQNLNFDVSPQCLQSNIAEIITKFVLLSQDGSRRGLSRSFNFIDPDIIAGCREEDAIEFLLINFVRCHHELGKSGTSNCYKKTLESTRKAVFSVFVMIQRGYLESQLRSQHASLVFTKRLLEDTVSNVFLRTLVEYLASTDECDEDAITETFNPIFGILRSGIICQRFEDNKDEIVRQILRVMNLLLSIRLPSNGPRPLSNLLVNREDFLPTPSEKIQGREFGLMSFLGPFFSYGLESSARRPNHRVFVDCEEDARKYDGSVNTEQKLYFQRMDPIRTMLHQLMLPLASDQGSRNKTLRWIATIISTNDIRTRSHYDPSDVLCDHYMTNFLSVMYMFSEKIDLSKIIVDYPFLPSSLINISKETRLKMDESGAVAFASQFADRPDEYHFSTVCFFLTIAAQRLVIPPLMNQISEYSRHLKELKHKINALKEKLNTVSGFERAEVEKKLNYETEHWKLMSRHLLCVKTQAQDPALMASSMDFVDKQMKFILNLLCDNLDLLGDDSQLPTEVSQMFCALPEYFLEDALDFYIFAISNGMKLLMERNADWISRLTVLFTQYHYIKSPFLVSKLVRVLSSIQPPLWFNVVRLRMAQENLLMCMIKFYSDFEDNGDFYEKFNVRGNIQYMLEKMEEDMFYKGKFMDMARECGAEFIRFVNMVINDATWCIDESLSGLKSIHDVEKKMANKVEWDNTDQEIRNQDLGVYEEAKRKVKGWLGTAKSNLKLLLSITVNSPEPFRTPVLGERLAAMLNHNLSQLIGSKASELKVKDPRSYGWEPREFVSLLISIYLKLNMPAFVKYIAYDERTYSPEFFHNAIECMRKNSIVGFSQLESFEHLAEDVKKEYEAKAELEEEYDDVPEEFKDPIMDAIMVDPVKLPSGHVMDRAVIERHLLSTPNNPFNRAPLSHNELSPDSELKAKIQEWICQKRNSKK |
| 1985 | sp|A8MV65|VGLL3\_HUMAN | MSCAEVMYHPQPYGASQYLPNPMAATTCPTAYYQPAPQPGQQKKLAVFSKMQDSLEVTLPSKQEEEDEEEEEEEKDQPAEMEYLNSRCVLFTYFQGDIGSVVDEHFSRALGQAITLHPESAISKSKMGLTPLWRDSSALSSQRNSFPTSFWTSSYQPPPAPCLGGVHPDFQVTGPPGTFSAADPSPWPGHNLHQTGPAPPPAVSESWPYPLTSQVSPSYSHMHDVYMRHHHPHAHMHHRHRHHHHHHHPPAGSALDPSYGPLLMPSVHAARIPAPQCDITKTEPTTVTSATSAWAGAFHGTVDIVPSVGFDTGLQHQDKSKESPWY |
| 1986 | sp|P12003|VINC\_CHICK | MPVFHTRTIESILEPVAQQISHLVIMHEEGEVDGKAIPDLTAPVSAVQAAVSNLVRVGKETVQTTEDQILKRDMPPAFIKVENACTKLVRAAQMLQADPYSVPARDYLIDGSRGILSGTSDLLLTFDEAEVRKIIRVCKGILEYLTVAEVVETMEDLVTYTKNLGPGMTKMAKMIDERQQELTHQEHRVMLVNSMNTVKELLPVLISAMKIFVTTKNTKSQGIEEALKNRNFTVEKMSAEINEIIRVLQLTSWDEDAWASKDTEAMKRALALIDSKMNQAKGWLRDPNAPPGDAGEQAIRQILDEAGKAGELCAGKERREILGTCKTLGQMTDQLADLRARGQGATPMAMQKAQQVSQGLDLLTAKVENAARKLEAMTNSKQAIAKKIDAAQNWLADPNGGSEGEEHIRGIMSEARKVAELCEEPKERDDILRSLGEISALTAKLSDLRRHGKGDSPEARALAKQIATSLQNLQSKTNRAVANTRPVKAAVHLEGKIEQAQRWIDNPTVDDRGVGQAAIRGLVAEGRRLANVMMGPYRQDLLAKCDRVDQLAAQLADLAARGEGESPQARAIAAQLQDSLKDLKARMQEAMTQEVSDVFSDTTTPIKLLAVAATAPSDTPNREEVFEERAANFENHAARLGATAEKAAAVGTANKTTVEGIQATVKSARELTPQVVSAARILLRNPGNQAAYEHFETMKNQWIDNVEKMTGLVDEAIDTKSLLDASEEAIKKDLDKCKVAMANMQPQMLVAGATSIARRANRILLVAKREVENSEDPKFREAVKAASDELSKTISPMVMDAKAVAGNISDPGLQKSFLDSGYRILGAVAKVREAFQPQEPDFPPPPPDLEHLHLTDELAPPKPPLPEGEVPPPRPPPPEEKDEEFPEQKAGEAINQPMMMAARQLHDEARKWSSKPVTVINEAAEAGVDIDEEDDADVEFSLPSDIEDDYEPELLLMPTNQPVNQPILAAAQSLHREATKWSSKGNDIIAAAKRMALLMAEMSRLVRGGSGNKRALIQCAKDIAKASDEVTRLAKEVAKQCTDKRIRTNLLQVCERIPTISTQLKILSTVKATMLGRTNISDEESEQATEMLVHNAQNLMQSVKETVREAEAASIKIRTDAGFTLRWVRKTPWYQ |
| 1987 | sp|Q9R1Z8|VINEX\_MOUSE | MARILGVGRSSASSLNNKEDNESDVALLSPKDPNRVHTKEQLAHPASSNLDPSMQGLPAGLSLDDFIPGHLRTHIGSSSRGTRVPVIRNGGSNTLNFQFHDPAPRTVCNGCPPPRRDGSLNPDPAWYQTWPGPGSRPSMSPKPPASQHAQNWSATWTKDSKRQDKRWVKYEGIGPVDESGMPIAPRSSVDSPRDWYRRMFQQIHRKMPDLQLDWTLEDPPKVVSARASSAEPRHLGTLQRPASRPGTTETSSGRNWNHSEETSRNTFNYNFRPSSSGLHPPNQVPRHREKVENVWTEDSWNQFLHELETGHKPKKPLVDDPVEKPAQPIEVLLERELAKLSAELDKDLRAIETRLPSPKNSQAPRRPLEQPGLEQQPSARLSSAWRPNSPHAPYFSSSRPLSPHRMADGGGSPFLGRRDFVYPSSAREPSASERGSSPSRKEEKKRKAARLKFDFQAQSPKELSLQKGDIVYIHKEVDKNWLEGEHHGRLGIFPANYVEVLPADEIPKPIKPPTYQVLEYGDAVAQYTFKGDLEVELSFRKGERICLIRKVNEHWYEGRITGTGRQGIFPASYVQINREPRLRLCDDGPQLPASPNPTTTAHLSSHSHPSSIPVDPTDWGGRTSPRRSAFPFPITLQEPRSQTQSLNTPGPTLSHPRATSRPINLGPSSPNTEIHWTPYRAMYQYRPQNEDELELREGDRVDVMQQCDDGWFVGVSRRTQKFGTFPGNYVAPV |
| 1988 | sp|P20152|VIME\_MOUSE | MSTRSVSSSSYRRMFGGSGTSSRPSSNRSYVTTSTRTYSLGSALRPSTSRSLYSSSPGGAYVTRSSAVRLRSSVPGVRLLQDSVDFSLADAINTEFKNTRTNEKVELQELNDRFANYIDKVRFLEQQNKILLAELEQLKGQGKSRLGDLYEEEMRELRRQVDQLTNDKARVEVERDNLAEDIMRLREKLQEEMLQREEAESTLQSFRQDVDNASLARLDLERKVESLQEEIAFLKKLHDEEIQELQAQIQEQHVQIDVDVSKPDLTAALRDVRQQYESVAAKNLQEAEEWYKSKFADLSEAANRNNDALRQAKQESNEYRRQVQSLTCEVDALKGTNESLERQMREMEENFALEAANYQDTIGRLQDEIQNMKEEMARHLREYQDLLNVKMALDIEIATYRKLLEGEESRISLPLPTFSSLNLRETNLESLPLVDTHSKRTLLIKTVETRDGQVINETSQHHDDLE |
| 1989 | sp|P22219|VPS15\_YEAST | MGAQLSLVVQASPSIAIFSYIDVLEEVHYVSQLNSSRFLKTCKALDPNGEIVIKVFIKPKDQYSLRPFLQRIRAQSFKLGQLPHVLNYSKLIETNRAGYMIRQHLKNNLYDRLSLRPYLQDIELKFIAFQLLNALKDIHNLNIVHGDIKTENILVTSWNWCILTDFAAFIKPVYLPEDNPGEFLFYFDTSKRRTCYLAPERFNSKLYQDGKSNNGRLTKEMDIFSLGCVIAEIFAEGRPIFNLSQLFKYKSNSYDVNREFLMEEMNSTDLRNLVLDMIQLDPSKRLSCDELLNKYRGIFFPDYFYTFIYDYFRNLVTMTTSTPISDNTCTNSTLEDNVKLLDETTEKIYRDFSQICHCLDFPLIKDGGEIGSDPPILESYKIEIEISRFLNTNLYFPQNYHLVLQQFTKVSEKIKSVKEECALLFISYLSHSIRSIVSTATKLKNLELLAVFAQFVSDENKIDRVVPYFVCCFEDSDQDVQALSLLTLIQVLTSVRKLNQLNENIFVDYLLPRLKRLLISNRQNTNYLRIVFANCLSDLAIIINRFQEFTFAQHCNDNSMDNNTEIMESSTKYSAKLIQSVEDLTVSFLTDNDTYVKMALLQNILPLCKFFGRERTNDIILSHLITYLNDKDPALRVSLIQTISGISILLGTVTLEQYILPLLIQTITDSEELVVISVLQSLKSLFKTGLIRKKYYIDISKTTSPLLLHPNNWIRQFTLMIIIEIINKLSKAEVYCILYPIIRPFFEFDVEFNFKSMISCCKQPVSRSVYNLLCSWSVRASKSLFWKKIITNHVDSFGNNRIEFITKNYSSKNYGFNKRDTKSSSSLKGIKTSSTVYSHDNKEIPLTAEDRNWIDKFHIIGLTEKDIWKIVALRGYVIRTARVMAANPDFPYNNSNYRPLVQNSPPNLNLTNIMPRNIFFDVEFAEESTSEGQDSNLENQQIYKYDESEKDSNKLNINGSKQLSTVMDINGSLIFKNKSIATTTSNLKNVFVQLEPTSYHMHSPNHGLKDNANVKPERKVVVSNSYEGDVESIEKFLSTFKILPPLRDYKEFGPIQEIVRSPNMGNLRGKLIATLMENEPNSITSSAVSPGETPYLITGSDQGVIKIWNLKEIIVGEVYSSSLTYDCSSTVTQITMIPNFDAFAVSSKDGQIIVLKVNHYQQESEVKFLNCECIRKINLKNFGKNEYAVRMRAFVNEEKSLLVALTNLSRVIIFDIRTLERLQIIENSPRHGAVSSICIDEECCVLILGTTRGIIDIWDIRFNVLIRSWSFGDHAPITHVEVCQFYGKNSVIVVGGSSKTFLTIWNFVKGHCQYAFINSDEQPSMEHFLPIEKGLEELNFCGIRSLNALSTISVSNDKILLTDEATSSIVMFSLNELSSSKAVISPSRFSDVFIPTQVTANLTMLLRKMKRTSTHSVDDSLYHHDIINSISTCEVDETPLLVACDNSGLIGIFQ |
| 1990 | sp|Q9LT31|VPS9A\_ARATH | MENTDVFLGLHDFLERMRKPSAGDFVKSIKSFIVSFSNNAPDPEKDCAMVQEFFSKMEAAFRAHPLWSGCSEEELDSAGDGLEKYVMTKLFTRVFASNTEEVIADEKLFQKMSLVQQFISPENLDIQPTFQNESSWLLAQKELQKINMYKAPRDKLVCILNCCKVINNLLLNASIASNENAPGADEFLPVLIYVTIKANPPQLHSNLLYIQRYRRESKLVGEAAYFFTNILSAESFISNIDAKSISLDEAEFEKNMESARARISGLDSQTYQTGHGSAPPPRDESTLQKTQSLNPKRENTLFQSKSSDSLSGTNELLNINSETPMKKAESISDLENKGATLLKDTEPSKVFQEYPYIFASAGDLRIGDVEGLLNSYKQLVFKYVCLTKGLGDGTSLAPSSSPLQASSGFNTSKESEDHRRSSSDVQMTKETDRSVDDLIRALHGEGEDVNNLSDVKHEEYGAMLVEGKDEERDSKVQGEVDAKDIELMKQIPKREGDNSSSRPAEDEDVGSKQPVTEASE |
| 1991 | sp|A2T3S5|VP3\_ROTSH | MKVLALRHSVAQVYADTQVYVHDDTKDSYENAFLISNLTTHNILYLNYSIKTLEILNKSGIAAIALQSLEELFTLIRCNFTYDYELDIIYLHDYSYYTNNEIRTDQHWITKTNIEEYLLPGWKLTYVGYNGSETRGHYNFSFKCQNAATDDDLIIEYIYSEALDFQNFMLKKIKERMTTSLPIARLSNRVFRDKLFPSLLKEHKNVVNVGPRNESMFTFLNYPTIKQFSNGAYLVKDTIKLKQERWLGKRISQFDIGQYKNMLNVLTAIYYYYNLYKSKPIIYMIGSAPSYWIYDVRHYSDFFFETWDPLDTPYSSIHHKELFFINDVKKLKDNSILYIDIRTDRGNADWKKWRKTVEEQTINNLDIAYEYLRTGKAKVCCVKMTAMDLELPISAKLLHHPTTEIRSEFYLLLDTWDLTNIRRFIPKGVLYSFINNIITENVFIQQPFKVKVLNDSYIVALYALSNDFNNRSEVIKLINNQKQSLITVRINNTFKDEPKVGFKNIYDWTFLPTDFDTKEAIITSYDGCLGLFGLSISLASKPTGNNHLFILSGTDKYYKLDQFANHTSISRRSHQIRFSESATSYSGYIFRDLSNNNFNLIGTNIENSVSGHVYNALIYYRYNYSFDLKRWIYLHSIDKVDIEGGKYYELAPIELIYACRSAKEFATLQDDLTVLRYSNEIENYINTVYSITYADDPNYFIGIQFRNIPYKYDVKIPHLTFGVLHISDNMVPDVIDILKIMKNELFKMDITTSYTYMLSDGIYVANVSGVLSTYFKIYNVFYKNQITFGQSRMFIPHITLSFNNMRTVRIETTKLQIKSIYLRKIKGDTVFDMVE |
| 1992 | sp|P87666|VGP\_EBOZ5 | MGVTGILQLPRDRFKRTSFFLWVIILFQRTFSIPLGVIHNSTLQVSDVDKLVCRDKLSSTNQLRSVGLNLEGNGVATDVPSATKRWGFRSGVPPKVVNYEAGEWAENCYNLEIKKPDGSECLPAAPDGIRGFPRCRYVHKVSGTGPCAGDFAFHKEGAFFLYDRLASTVIYRGTTFAEGVVAFLILPQAKKDFFSSHPLREPVNATEDPSSGYYSTTIRYQATGFGTNETEYLFEVDNLTYVQLESRFTPQFLLQLNETIYTSGKRSNTTGKLIWKVNPEIDTTIGEWAFWETKKNLTRKIRSEELSFTAVSNRAKNISGQSPARTSSDPGTNTTTEDHKIMASENSSAMVQVHSQGREAAVSHLTTLATISTSPQPPTTKPGPDNSTHNTPVYKLDISEATQVEQHHRRTDNDSTASDTPPATTAAGPLKAENTNTSKGTDLLDPATTTSPQNHSETAGNNNTHHQDTGEESASSGKLGLITNTIAGVAGLITGGRRARREAIVNAQPKCNPNLHYWTTQDEGAAIGLAWIPYFGPAAEGIYTEGLMHNQDGLICGLRQLANETTQALQLFLRATTELRTFSILNRKAIDFLLQRWGGTCHILGPDCCIEPHDWTKNITDKIDQIIHDFVDKTLPDQGDNDNWWTGWRQWIPAGIGVTGVIIAVIALFCICKFVF |
| 1993 | sp|Q70US9|VOLK\_ADEVO | VFPKVPFDVPKATVESYTRFIRVLRDELAGGVSPQGIRRLRNPAEIQPSQGFILIQLTGYVGSVTLIMDVRNAYLLGYLSHNVLYHFNDVSASSIASVFPDAQRRQLPFGGGYPSMRNYAPERDQIDHGIVELAYAVDRLYYSQNNNQIALGLVICAGMVAEASRFRYIEGLVRQSIVGPGDYRTFRPDALMYSIVTQWQTLSERIQGSFNGAFQPVQLGYASDPFYWDNVAQAITRLSLMLFVCSQPPRQSDSPLVIRSFVDRNDPVCPSGETTAFIVGRDGRCVDVKVEEFFDGNKVQMWPCKSSQNANQLWTLKRDGTIRCQGKCLTVRSPQLYAMIWDCTTFYAPATKWEVWDNGTIINPASGRVLTAPTGEAGVTLNLQFNEYAASQAWRVTNVTVPTVTTIVGYDDLCLETNGNGVWLANCVKGKAQQRWTLYADGTIRSQSTLSKCLACSGSCVKLAKIVNTDCAGSANSRWYFDNYGGIVNLRTGMVMDVKESNPSLNEIIAHPWHGNSNQQWFL |
| 1994 | sp|P62814|VATB2\_MOUSE | MALRAMRGIVNGAAPELPVPTGGPMAGAREQALAVSRNYLSQPRLTYKTVSGVNGPLVILDHVKFPRYAEIVHLTLPDGTKRSGQVLEVSGSKAVVQVFEGTSGIDAKKTSCEFTGDILRTPVSEDMLGRVFNGSGKPIDRGPVVLAEDFLDIMGQPINPQCRIYPEEMIQTGISAIDGMNSIARGQKIPIFSAAGLPHNEIAAQICRQAGLVKKSKDVVDYSEENFAIVFAAMGVNMETARFFKSDFEENGSMDNVCLFLNLANDPTIERIITPRLALTTAEFLAYQCEKHVLVILTDMSSYAEALREVSAAREEVPGRRGFPGYMYTDLATIYERAGRVEGRNGSITQIPILTMPNDDITHPIPDLTGYITEGQIYVDRQLHNRQIYPPINVLPSLSRLMKSAIGEGMTRKDHADVSNQLYACYAIGKDVQAMKAVVGEEALTSDDLLYLEFLQKFEKNFITQGPYENRTVYETLDIGWQLLRIFPKEMLKRIPQSTLSEFYPRDSAKH |
| 1995 | sp|Q9LTT8|VCS\_ARATH | MASSPGNTNPHNTPPFDLGILFKPSSNPYPPPAASYPPPTGPFLHNQYDQQHYAPPGISAQPSPVTQQQQDVSSSSAATNLHPQRTLSYPTPPLNLQSPRSNHNPGTHILALLNNTNNGAPVANQEPSHQLPVVNHNEIARSFPGGSGPIRVPSCKLPKGRRLIGEHAVYDVDVRLQGEIQPQLEVTPITKYGSDPQLVVGRQIAVNKVYICYGLKGGNIRVLNINTALRSLFRGHSQRVTDMAFFAEDVDMLASVSLDGKVFVWKISEGSEGEDQPQITGKIVLALQILGEEDTKHPRVCWHCHKQEILVVSIGKHVLRIDTTKVGRGEVFSAEAPLQCPLDKLIDGVQIVGKHDGEVTDLSMCQWMTTRLVSSSVDGTIKIWQDRKAQPLVVLRPHDGHPVSSATFVTSPERPDHIILITGGPLNREMKIWVSAGEEGWLLPADAESWRCTQTLDLKSSTEPRAEEAFFNQVIALSEAGLLLLANAKRNALYAVHLDYGSSPVGTRMDYLSEFTVTMPILSFIGTNDPPEEPIVKVYCVQTLAIQQYTLDLCLCLPPPIENMGLEKSDSSVSREANLVEGMSEPSGLKPTDLPSVDSVPKPSIIVNRSESANKLSFPSAEATSQAIVPPNGEPKTSGLPSQTSGAGSAYATLPQLPLSPRLSSKLSGYHTPVEAIEPVIPHHELGGKTPSADYSVDRQMDAVGERNLDVSSVEEISRSKDSNVTPDDDVSGMRSPSAFFKHPTHLVTPSEILMGVSSAEASITTEDRRDRDANIQDVNNDPRDTEVEVKEISEARSTQNGEINDHDETENCTSENREKVFCSQVSNLSTEMARDCYPSTEGTFIPGESKAYGQPIKAGDESGVDSRGGPAKLLKGKKQKAKNSQGPGLSSTSSNVANLADSFNEQSQSLSHPMTDLLPQLLAMQETMNQVMASQKEMQRQLSNAATGPIGKESKRLEVALGRMIEKSSKSNADALWARIQEETVKNEKALRDHAQQIVNATTNFMSKELNAMFEKTIKKELAAIGPALARSVVPVIEKTVSSAITESFQRGIGDKAVNQLDKSVNIKLEATVARQIQAQFQTSGKQALQEGLRSSVESSVIPSFEKACKAMFDQIDSAFQKGIAEHTNAAQQRFDSGHSQLAHTLKESITSASSVAQALSRELAETQRNLLALAAAGANSGGSNSLVTQLSGGPLGALLEKVEAPMDPTTELSRLISERKYEESFTSALQRSDVSIVSWLCSQVDLRGLLAMNPLPLSQGVLLSLLQQLACDISKDTSRKLAWMTDVVAAINPSDQMIAVHARPIFEQVYQILHHHRNAPGSDVSAIRLIMHVINSMLMGCK |
| 1996 | sp|P63024|VAMP3\_MOUSE | MSTGVPSGSSAATGSNRRLQQTQNQVDEVVDIMRVNVDKVLERDQKLSELDDRADALQAGASQFETSAAKLKRKYWWKNCKMWAIGISVLVIIVIIIIVWCVS |
| 1997 | sp|P63026|VAMP2\_BOVIN | MSATAATAPPAAPAGEGGPPAPPPNLTSNRRLQQTQAQVDEVVDIMRVNVDKVLERDQKLSELDDRADALQAGASQFETSAAKLKRKYWWKNLKMMIILGVICAIILIIIIVYFSS |
| 1998 | sp|Q9SMX3|VDAC3\_ARATH | MVKGPGLYTEIGKKARDLLYRDYQGDQKFSVTTYSSTGVAITTTGTNKGSLFLGDVATQVKNNNFTADVKVSTDSSLLTTLTFDEPAPGLKVIVQAKLPDHKSGKAEVQYFHDYAGISTSVGFTATPIVNFSGVVGTNGLSLGTDVAYNTESGNFKHFNAGFNFTKDDLTASLILNDKGEKLNASYYQIVSPSTVVGAEISHNFTTKENAITVGTQHALDPLTTVKARVNNAGVANALIQHEWRPKSFFTVSGEVDSKAIDKSAKVGIALALKP |
| 1999 | sp|P45880|VDAC2\_HUMAN | MATHGQTCARPMCIPPSYADLGKAARDIFNKGFGFGLVKLDVKTKSCSGVEFSTSGSSNTDTGKVTGTLETKYKWCEYGLTFTEKWNTDNTLGTEIAIEDQICQGLKLTFDTTFSPNTGKKSGKIKSSYKRECINLGCDVDFDFAGPAIHGSAVFGYEGWLAGYQMTFDSAKSKLTRNNFAVGYRTGDFQLHTNVNDGTEFGGSIYQKVCEDLDTSVNLAWTSGTNCTRFGIAAKYQLDPTASISAKVNNSSLIGVGYTQTLRPGVKLTLSALVDGKSINAGGHKVGLALELEA |
| 2000 | sp|Q07468|VAM6\_YEAST | MLRAQKLHSLKSSDITAILPTEQSQKLVLAKKNGDVEVYSRDGNTLKLFQVYPDLLQNAKNDPLPPVIENFYFANELSTIFAQCKETLILLSTTNLHEYDRIIDRRGINHCWLFERSHKNKEEKNTYLIYSTINTAKMRVLIWEGRTYKNMMEASLSYRKETIRSIYPGETGITLATDLGIYHWPYNKPSLIRIEKTVKNKFPKDMISALTELKEQAEKVIEKKPKKNSHFDAQSFSSMDRMSRKSSMSSLWYRTIRNERGNKIRYTFELDGNDATPMIIDGATKKIFKVELMHNNEEPFLIATDHATFSESNSEFDHMQYLSSNLLMLYNSSTIKFVDYENGFTFLQQKIPEGIKWVKNLSGTYFLVWTSNDEVQLFSYHVDDGSEDDDQESICGDINDPDFYQLWRKVLFYKFFIDSPHSKELCVSDNPEESLDICAMKLRDLTVMWCLRIFDKFQNYMVQLERSRNSRMIRSKCEEMIIKSIFDLFIKFWAPPQLVILKVFPSAISSLVLEITGQEHHCLLKEAEEVKETYDIPPHLLNRWCLPYLTDTRRHLQNLLSKENDDESRITWCYRDREIKQSFDFFLISNHDDVDLNTMLTLIDTVLFKCYLYYNPPMVGPFIRVENHCDSHVIVTELKIRHMFKDLIDFYYKRGNHEEALKFLTDLVDELENDNTDQKQRQKIDHGVKILVIYYLKKLSNPQLDVIFTYTDWLLNRHNDSIKEILSSIFFYDSQACSSRDHLKVYGYIKKFDKLLAIQYLEFAISTFRLEGNKLHTVLIKLYLENLDIPSTRIKLKSLLETTSVYEPRTILKLLNDAIESGSDQLPTNQLNFVKYLKIFPLSKLENHKEAVHILLDEIDDYKAATSYCNDVYQSDSTKGEELLLYLYSKLVSIYDSNRNSKLILNFLQDHGSKLNSAEIYKNLPQDISLYDIGRVVSQLLKKHTSKMDETRLEKALLQVELVATTYKLNERMSSYGVLSDSHKCPICKKVISNFGTDSISWFTREGRNIITHYNCGKVLQERFNAKNEKSSRIKQKTLGEVINELNNK |
| 2001 | sp|P30560|V1AR\_RAT | MSFPRGSQDRSVGNSSPWWPLTTEGSNGSQEAARLGEGDSPLGDVRNEELAKLEIAVLAVIFVVAVLGNSSVLLALHRTPRKTSRMHLFIRHLSLADLAVAFFQVLPQLCWDITYRFRGPDWLCRVVKHLQVFAMFASAYMLVVMTADRYIAVCHPLKTLQQPARRSRLMIATSWVLSFILSTPQYFIFSVIEIEVNNGTKTQDCWATFIQPWGTRAYVTWMTSGVFVAPVVVLGTCYGFICYHIWRNIRGKTASSRHSKGDKGSGEAVGPFHKGLLVTPCVSSVKSISRAKIRTVKMTFVIVSAYILCWAPFFIVQMWSVWDENFIWTDSENPSITITALLASLNSCCNPWIYMFFSGHLLQDCVQSFPCCHSMAQKFAKDDSDSMSRRQTSYSNNRSPTNSTGMWKDSPKSSKSIRFIPVST |
| 2002 | sp|Q9BRX9|WDR83\_HUMAN | MAFPEPKPRPPELPQKRLKTLDCGQGAVRAVRFNVDGNYCLTCGSDKTLKLWNPLRGTLLRTYSGHGYEVLDAAGSFDNSSLCSGGGDKAVVLWDVASGQVVRKFRGHAGKVNTVQFNEEATVILSGSIDSSIRCWDCRSRRPEPVQTLDEARDGVSSVKVSDHEILAGSVDGRVRRYDLRMGQLFSDYVGSPITCTCFSRDGQCTLVSSLDSTLRLLDKDTGELLGEYKGHKNQEYKLDCCLSERDTHVVSCSEDGKVFFWDLVEGALALALPVGSGVVQSLAYHPTEPCLLTAMGGSVQCWREEAYEAEDGAG |
| 2003 | sp|P78423|X3CL1\_HUMAN | MAPISLSWLLRLATFCHLTVLLAGQHHGVTKCNITCSKMTSKIPVALLIHYQQNQASCGKRAIILETRQHRLFCADPKEQWVKDAMQHLDRQAAALTRNGGTFEKQIGEVKPRTTPAAGGMDESVVLEPEATGESSSLEPTPSSQEAQRALGTSPELPTGVTGSSGTRLPPTPKAQDGGPVGTELFRVPPVSTAATWQSSAPHQPGPSLWAEAKTSEAPSTQDPSTQASTASSPAPEENAPSEGQRVWGQGQSPRPENSLEREEMGPVPAHTDAFQDWGPGSMAHVSVVPVSSEGTPSREPVASGSWTPKAEEPIHATMDPQRLGVLITPVPDAQAATRRQAVGLLAFLGLLFCLGVAMFTYQSLQGCPRKMAGEMAEGLRYIPRSCGSNSYVLVPV |
| 2004 | sp|Q9X1N5|WECA\_THEMA | MWEAIISFFLTSVLSVFAKKTEFLDRPDSRKSHGRAVPPVGGVSIFLTLLIFERDNPFFLFSIPLFLLGLLDDLFDLSYRIKLAVTALVAVWFSTAVTIEVSIFGARIHPVFFVIWFVGMVNAFNVVDGLDGLLSGISLFSSLMIGERSLAFSIIGFLPWNLPDAKVFLGNSGSFLLGAYLSTASVVFFEGDLGYATLFLGFPFYEIVFSFVRRLVVKKNPFSPDEKHTHHVFSRKIGKWKTLLILVSFSLMFNLLGLSQKFYFIFLYVVLCCVLLFTYCVLQRGNGNLKL |
| 2005 | sp|P04275|VWF\_HUMAN | MIPARFAGVLLALALILPGTLCAEGTRGRSSTARCSLFGSDFVNTFDGSMYSFAGYCSYLLAGGCQKRSFSIIGDFQNGKRVSLSVYLGEFFDIHLFVNGTVTQGDQRVSMPYASKGLYLETEAGYYKLSGEAYGFVARIDGSGNFQVLLSDRYFNKTCGLCGNFNIFAEDDFMTQEGTLTSDPYDFANSWALSSGEQWCERASPPSSSCNISSGEMQKGLWEQCQLLKSTSVFARCHPLVDPEPFVALCEKTLCECAGGLECACPALLEYARTCAQEGMVLYGWTDHSACSPVCPAGMEYRQCVSPCARTCQSLHINEMCQERCVDGCSCPEGQLLDEGLCVESTECPCVHSGKRYPPGTSLSRDCNTCICRNSQWICSNEECPGECLVTGQSHFKSFDNRYFTFSGICQYLLARDCQDHSFSIVIETVQCADDRDAVCTRSVTVRLPGLHNSLVKLKHGAGVAMDGQDVQLPLLKGDLRIQHTVTASVRLSYGEDLQMDWDGRGRLLVKLSPVYAGKTCGLCGNYNGNQGDDFLTPSGLAEPRVEDFGNAWKLHGDCQDLQKQHSDPCALNPRMTRFSEEACAVLTSPTFEACHRAVSPLPYLRNCRYDVCSCSDGRECLCGALASYAAACAGRGVRVAWREPGRCELNCPKGQVYLQCGTPCNLTCRSLSYPDEECNEACLEGCFCPPGLYMDERGDCVPKAQCPCYYDGEIFQPEDIFSDHHTMCYCEDGFMHCTMSGVPGSLLPDAVLSSPLSHRSKRSLSCRPPMVKLVCPADNLRAEGLECTKTCQNYDLECMSMGCVSGCLCPPGMVRHENRCVALERCPCFHQGKEYAPGETVKIGCNTCVCQDRKWNCTDHVCDATCSTIGMAHYLTFDGLKYLFPGECQYVLVQDYCGSNPGTFRILVGNKGCSHPSVKCKKRVTILVEGGEIELFDGEVNVKRPMKDETHFEVVESGRYIILLLGKALSVVWDRHLSISVVLKQTYQEKVCGLCGNFDGIQNNDLTSSNLQVEEDPVDFGNSWKVSSQCADTRKVPLDSSPATCHNNIMKQTMVDSSCRILTSDVFQDCNKLVDPEPYLDVCIYDTCSCESIGDCACFCDTIAAYAHVCAQHGKVVTWRTATLCPQSCEERNLRENGYECEWRYNSCAPACQVTCQHPEPLACPVQCVEGCHAHCPPGKILDELLQTCVDPEDCPVCEVAGRRFASGKKVTLNPSDPEHCQICHCDVVNLTCEACQEPGGLVVPPTDAPVSPTTLYVEDISEPPLHDFYCSRLLDLVFLLDGSSRLSEAEFEVLKAFVVDMMERLRISQKWVRVAVVEYHDGSHAYIGLKDRKRPSELRRIASQVKYAGSQVASTSEVLKYTLFQIFSKIDRPEASRITLLLMASQEPQRMSRNFVRYVQGLKKKKVIVIPVGIGPHANLKQIRLIEKQAPENKAFVLSSVDELEQQRDEIVSYLCDLAPEAPPPTLPPDMAQVTVGPGLLGVSTLGPKRNSMVLDVAFVLEGSDKIGEADFNRSKEFMEEVIQRMDVGQDSIHVTVLQYSYMVTVEYPFSEAQSKGDILQRVREIRYQGGNRTNTGLALRYLSDHSFLVSQGDREQAPNLVYMVTGNPASDEIKRLPGDIQVVPIGVGPNANVQELERIGWPNAPILIQDFETLPREAPDLVLQRCCSGEGLQIPTLSPAPDCSQPLDVILLLDGSSSFPASYFDEMKSFAKAFISKANIGPRLTQVSVLQYGSITTIDVPWNVVPEKAHLLSLVDVMQREGGPSQIGDALGFAVRYLTSEMHGARPGASKAVVILVTDVSVDSVDAAADAARSNRVTVFPIGIGDRYDAAQLRILAGPAGDSNVVKLQRIEDLPTMVTLGNSFLHKLCSGFVRICMDEDGNEKRPGDVWTLPDQCHTVTCQPDGQTLLKSHRVNCDRGLRPSCPNSQSPVKVEETCGCRWTCPCVCTGSSTRHIVTFDGQNFKLTGSCSYVLFQNKEQDLEVILHNGACSPGARQGCMKSIEVKHSALSVELHSDMEVTVNGRLVSVPYVGGNMEVNVYGAIMHEVRFNHLGHIFTFTPQNNEFQLQLSPKTFASKTYGLCGICDENGANDFMLRDGTVTTDWKTLVQEWTVQRPGQTCQPILEEQCLVPDSSHCQVLLLPLFAECHKVLAPATFYAICQQDSCHQEQVCEVIASYAHLCRTNGVCVDWRTPDFCAMSCPPSLVYNHCEHGCPRHCDGNVSSCGDHPSEGCFCPPDKVMLEGSCVPEEACTQCIGEDGVQHQFLEAWVPDHQPCQICTCLSGRKVNCTTQPCPTAKAPTCGLCEVARLRQNADQCCPEYECVCDPVSCDLPPVPHCERGLQPTLTNPGECRPNFTCACRKEECKRVSPPSCPPHRLPTLRKTQCCDEYECACNCVNSTVSCPLGYLASTATNDCGCTTTTCLPDKVCVHRSTIYPVGQFWEEGCDVCTCTDMEDAVMGLRVAQCSQKPCEDSCRSGFTYVLHEGECCGRCLPSACEVVTGSPRGDSQSSWKSVGSQWASPENPCLINECVRVKEEVFIQQRNVSCPQLEVPVCPSGFQLSCKTSACCPSCRCERMEACMLNGTVIGPGKTVMIDVCTTCRCMVQVGVISGFKLECRKTTCNPCPLGYKEENNTGECCGRCLPTACTIQLRGGQIMTLKRDETLQDGCDTHFCKVNERGEYFWEKRVTGCPPFDEHKCLAEGGKIMKIPGTCCDTCEEPECNDITARLQYVKVGSCKSEVEVDIHYCQGKCASKAMYSIDINDVQDQCSCCSPTRTEPMQVALHCTNGSVVYHEVLNAMECKCSPRKCSK |
| 2006 | sp|A5D8Q0|XIAP\_XENLA | MEPQIVKFVFKEEMTCQCPKMSDSACDVDTDQNYFEEEVRLASFANFSSSYPVSAPALARAGFYYTGDGDRVKCFSCMAMVEDWQHGDTAIGKHRKISPNCKFINGFNNFRSDCIQTQAPVMQNSHANGFPNSAEDPGEKSSSEIMADYMLRTGRVVDMSKPKYPRHMAMCSEEARLQTFQNWPGYSPLMPKELANAGLFYTGINDQVKCFCCGGKLMNWEPSDRAWTEHKKHFPECYFVLGRDVGNVTRDASVQGSTYMNSYNARLETFSSWPFPIDKETLAKAGFYRIGDEDATKCFSCGGMLNCWAANDDPWEEHAKAYPGCQFLIEEKGQQFINNAQLQRPILHKANSGEASPALPKDTSFLKNPLVIYAQQMGFPLEEIKKVMGQKLKTTGNNYTCVEEFVSDLLCAQSETIADKPMKREISIEEKLRQLEEEKVCKVCMDRRITIVFIPCGHLVACAVCADVLDKCPICCTIIERRQKIFMS |
| 2007 | sp|P47993|XCL1\_MOUSE | MRLLLLTFLGVCCLTPWVVEGVGTEVLEESSCVNLQTQRLPVQKIKTYIIWEGAMRAVIFVTKRGLKICADPEAKWVKAAIKTVDGRASTRKNMAETVPTGAQRSTSTAITLTG |
| 2008 | sp|Q13426|XRCC4\_HUMAN | MERKISRIHLVSEPSITHFLQVSWEKTLESGFVITLTDGHSAWTGTVSESEISQEADDMAMEKGKYVGELRKALLSGAGPADVYTFNFSKESCYFFFEKNLKDVSFRLGSFNLEKVENPAEVIRELICYCLDTIAENQAKNEHLQKENERLLRDWNDVQGRFEKCVSAKEALETDLYKRFILVLNEKKTKIRSLHNKLLNAAQEREKDIKQEGETAICSEMTADRDPVYDESTDEESENQTDLSGLASAAVSKDDSIISSLDVTDIAPSRKRRQRMQRNLGTEPKMAPQENQLQEKENSRPDSSLPETSKKEHISAENMSLETLRNSSPEDLFDEI |
| 2009 | sp|C4AMC7|WASH3\_HUMAN | MTPVRMQHSLAGQTYAVPLIQPDLRREEAVQQMADALQYLQKVSGDIFSRISQQVEQSRSQVQAIGEKVSLAQAKIEKIKGSKKAIKVFSSAKYPAPERLQEYGSIFTGAQDPGLQRRPRHRIQSKHRPLDERALQEKDFPVCVSTKPEPEDDAEEGLGGLPSNISSVSSLLLFNTTENLGKKYVFLDPLAGAVTKTHVMLGAETEEKLFDAPLSISKREQLEQQVPENYFYVPDLGQVPEIDVPSYLPDLPGITNDLMYIADLGPGIAPSAPGTIPELPTFHTEVAEPLKVDLQDGVLTPPPPPPPPPPAPEVLASAPPLPPSTAAPVGQGARQDDSSSSASPSVQGAPREVVDPSGGRATLLESIRQAGGIGKAKLRSMKERKLEKKQQKEQEQVRATSQGGHLMSDLFNKLVMRRKGISGKGPGAGEGPGGAFARVSDSIPPLPPPQQPQAEEDEDDWES |
| 2010 | sp|B2RYF7|WASH1\_RAT | MTAVKTQHSLAGQVYAVPLIQPDLRREEAIQQVADALQYLQNISGDIFSRISQRVELSRRQLQAIGERVSLAQAKIEKIKGSKKAIKVFSSAKYPAPEHLQEYNSVFTGALDPGLQRRPRYRIQSKHRPLDERALQEKLKYFPVCVSTKSEPEDEAEEGLGGLPSNISSISSLLLFNTTENLYKKYVFLDPLAGAVTKTHTMLGTEEEKLFDAPLSISKREQLEQPAPENYFYVPGLGQVPEIDVPSYLPDLPGVADDLMYSADLGPGIAPSAPGAIPELPAFHTEVAEPFQPEREDGALLAPPPPPPPPPPPPPPAPTAVVSAPQPPMSPDVVTVTGKVAREEDSGSGEAHSASVQGAPKEVVDPSSGRATLLESIRQAGGIGKAKLRSVKERKLEKKKQKEQEQVRATSQGGDLMSDLFNKLVMRRKGISGKGPGTGTSEGPGGAFSRMSDSIPPLPPPQQPAGDEDEDDWES |
| 2011 | sp|Q9LZJ3|XXT1\_ARATH | MIEKCIGAHRFRRLQRFMRQGKVTILCLVLTVIVLRGTIGAGKFGTPEKDIEEIREHFFYTRKRGEPHRVLVEVSSKTTSSEDGGNGGNSYETFDINKLFVDEGDEEKSRDRTNKPYSLGPKISDWDEQRRDWLKQNPSFPNFVAPNKPRVLLVTGSAPKPCENPVGDHYLLKSIKNKIDYCRIHGIEIFYNMALLDAEMAGFWAKLPLIRKLLLSHPEIEFLWWMDSDAMFTDMVFELPWERYKDYNLVMHGWNEMVYDQKNWIGLNTGSFLLRNSQWSLDLLDAWAPMGPKGKIREEAGKVLTRELKDRPAFEADDQSAMVYLLATEREKWGGKVYLESGYYLHGYWGILVDRYEEMIENHKPGFGDHRWPLVTHFVGCKPCGKFGDYPVERCLRQMDRAFNFGDNQILQMYGFTHKSLGSRRVKPTRNQTDRPLDAKDEFGLLHPPFKAAKLSTTTT |
| 2012 | sp|Q03149|WA\_EMENI | MEDPYRVYLFGDQTGDFEVGLRRLLQAKNHSLLSSFLQRSYHAVRQEISHLPPSERSTFPRFTSIGDLLARHCESPGNPAIESVLTCIYQLGCFINYYGDLGHTFPSHSQSQLVGLCTGLLSCAAVSCASNIGELLKPAVEVVVVALRLGLCVYRVRKLFGQDQAAPLSWSALVSGLSESEGTSLIDKFTRRNVIPPSSRPYISAVCANTLTISGPPVVLNQFLDTFISGKNKAVMVPIHGPFHASHLYEKRDVEWILKSCNVETIRNHKPRIPVLSSNTGELIVVENMEGFLKIALEEILLRQMSWDKVTDSCISILKSVGDNKPKKLLPISSTATQSLFNSLKKSNLVNIEVDGGISDFAAETQLVNQTGRAELSKIAIIGMSGRFPEADSPQDFWNLLYKGLDVHRKVPEDRWDADAHVDLTGTATNTSKVPYGCWIREPGLFDPRFFNMSPREALQADPAQRLALLTAYEALEGAGFVPDSTPSTQRDRVGIFYGMTSDDYREVNSGQDIDTYFIPGGNRAFTPGRINYYFKFSGPSVSVDTACSSSLAAIHLACNSIWRNDCDTAITGGVNILTNPDNHAGLDRGHFLSRTGNCNTFDDGADGYCRADGVGTVVLKRLEDALADNDPILGVINGAYTNHSAEAVSITRPHVGAQAFIFKKLLNEANVDPKNISYIEMHGTGTQAGDAVEMQSVLDVFAPDHRRGPGQSLHLGSAKSNIGHGESASGVTSLVKVLLMMKENMIPPHCGIKTKINHNFPTDLAQRNVHIALQPTAWNRPSFGKRQIFLNNFSAAGGNTALLLEDGPVSDPEGEDKRRTHVITLSARSQTALQNNIDALCQYISEQEKTFGVKDSNALPSLAYTTTARRIHHPFRVTAIGSSFQEMRDSLIASSRKEFVAVPAKTPGIGFLFTGQGAQYAAMGKQLYEDCSHFRSAIEHLDCISQGQDLPSILPLVDGSLPLSELSPVVVQLGTTCVQMALSSFWASLGITPSFVLGHSLGDFAAMNAAGVLSTSDTIYACGRRAQLLTERCQPGTHAMLAIKAPLVEVKQLLNEKVHDMACINSPSETVISGPKSSIDELSRACSEKGLKSTILTVPYAFHSAQVEPILEDLEKALQGITFNKPSVPFVSALLGEVITEAGSNILNAEYLVRHCRETVNFLSAFEAVRNAKLGGDQTLWLEVGPHTVCSGMVKATLGPQTTTMASLRRDEDTWKVLSNSLSSLYLAGVDINWKQYHQDFSSSHRVLPLPTYKWDLKNYWIPYRNNFCLTKGSSMSAASASLQPTFLTTSAQRVVESRDDGLTATVVVHNDIADPDLNRVIQGHKVNGAALCPSSLYADSAQTLAEYLIEKYKPELKGSGLDVCNVTVPKPLIAKTGKEQFRISATANWVDKHVSVQVFSVTAEGKKLIDHAHCEVKLFDCMAADLEWKRGSYLVKRSIELLENSAVKGDAHRLRRGMVYKLFSALVDYDENYQSIREVILDSEHHEATALVKFQAPQANFHRNPYWIDSFGHLSGFIMNASDGTDSKSQVFVNHGWDSMRCLKKFSADVTYRTYVRMQPWRDSIWAGNVYIFEGDDIIAVFGGVKFQALSRKILDIALPPAGLSKAQTSPIQSSAPQKPIETAKPTSRPAPPVTMKSFVKKSAGPSVVVRALNILASEVGLSESDMSDDLVFADYGVDSLLSLTVTGKYREELNLDMDSSVFIEHPTVGDFKRFVTQLSPSVASDSSSTDRESEYSFNGDSCSGLSSPASPGTVSPPNEKVIQIHENGTMKEIRAIIADEIGVSADEIKSDENLNELGMDSLLSLTVLGKIRESLDMDLPGEFFIENQTLDQIETALDLKPKAVPTAVPQSQPITLPQSQSTKQLSTRPTSSSDNHPPATSILLQGNPRTASKTLFLFPDGSGSATSYATIPGVSPNVAVYGLNCPYMKAPEKLTCSLDSLTTPYLAEIRRRQPTGPYNLGGWSAGGICAYDAARKLVLQQGEIVETLLLLDTPFPIGLEKLPPRLYSFFNSIGLFGEGKAAPPAWLLPHFLAFIDSLDAYKAVPLPFNEQEWKGKLPKTYLVWAKDGVCPKPGDPWPEPAEDGSKDPREMVWLLSNRTDLGPNGWDTLVGKENIGGITVIHDANHFTMTKGEKAKELATFMKNALGVCERRLV |
| 2013 | sp|P22725|WNT5A\_MOUSE | MKKPIGILSPGVALGTAGGAMSSKFFLMALATFFSFAQVVIEANSWWSLGMNNPVQMSEVYIIGAQPLCSQLAGLSQGQKKLCHLYQDHMQYIGEGAKTGIKECQYQFRHRRWNCSTVDNTSVFGRVMQIGSRETAFTYAVSAAGVVNAMSRACREGELSTCGCSRAARPKDLPRDWLWGGCGDNIDYGYRFAKEFVDARERERIHAKGSYESARILMNLHNNEAGRRTVYNLADVACKCHGVSGSCSLKTCWLQLADFRKVGDALKEKYDSAAAMRLNSRGKLVQVNSRFNSPTTQDLVYIDPSPDYCVRNESTGSLGTQGRLCNKTSEGMDGCELMCCGRGYDQFKTVQTERCHCKFHWCCYVKCKKCTEIVDQFVCK |
| 2014 | sp|O74304|WIN1\_SCHPO | MENILDPSVVNSHILENGSRRSSINPILDSELRDKTFEKAHRRSLTLLSSFTSSMLELPNNGKEENHRRPSVARSSSDRSKASAKEDLFSEAFRMAEQPPAEALTISTPVDPINIDELDRAYAVSPSDTSNLLHPPTSSSSIPIPIKNAGHSNLDHPIRPSLQSSISSNRIIKSPGIKEDDYMHRGRSISSPMIDVEHINSTAVPSKTKNLPEKPKRSHKLRNSITFAKIEDHPERKSQLRRLSSSLKCFDPEYDYNDPSLSIRRDSSTYYFSNVNETYDEEDSDLDSETSTVNWVQSVLNLPSLLSDDLMANPKNKERFEWQYMLTSVLTGDIVRSEKLRLRKIASSREGRNSDYSDNLWMEIWCWLTHRSVDSYRENLKHLRTGMVDVLLAIMNFHWDESNELTPIVAVDNMLQKLDKYERLYPSRRSILQEHSLYASESFQHKLDVLTAYSNVTHALEIQVNIIRSWVGNEEMDITKNTTNSINNVSQISNGPFVERFYRETGLIRAFEQRIMTNMNSVLSKVCNTIVTYADDLKSYGLPLIADDYMRLLSFPFRLIKEFLNLRLSCAENITSISLFTIDSLLDDLRNTMKVAVHIIQQHTVLIKPFRDDSKFVDENQSLNNILVASLKFYFNLLHRKVRNGCALLHFKETEILEGEWDFLLAVCPHIEHGFQIMSKSLSSLVGEILTNINRYLKDQLQGPDTDDSALITSFYIKVLDCVRIRFRKLMSFTRILKAHLENSCEYVIKENSLSLLIQRLEESNHVLTYTASIEHEGAYVIVPGHLVDSPNILREVLSMTFNKGDNNFESVPPYAVVLAPDSSICWNGHVTDLDIPEVSISIAPNCVRLVTLATANQLSVIEDYFISIVGDTVSLVDSAKANSSKINKQMTKIKRNSLKLALSLLDVIQTIRTRYHGMNCQNLIHYSFSYAIEFAQRLMRLSILDASSIGLIRRKMIQLAISWVGFIYEDCSPTDRNTFRWTVTALEFAMIMTYGSNILMIDKKSFEELKEKVGKCVALLLLHFDVMGTKHAGRSMDQQAGDIPARLVRNNSDRSRLSDNELASFVKEEVMHRIIELESNRRDRLYKSQLIGRVLDDTTKENRLLKELASSKSNITIRWQQGGLIGSGSFGTVYRAVNLDTGDLMAVKEVALHKPRISRPMIKRIKGEMLVLELFDHPNVVSYYGIEVHREKVNIFMELCQGSSLFEFLRYGRIEDELVIQVYVLQLLEGLAYIHSCGVSHQDVKPENILFDHNGIMKFTDFGSAKMSGSASTKIFEQLTQQEEEEFEKDSEFLQHLDQNRGYSLTGTPTYMAPELILGNPSERVGAMDIWSLGCVIVEMATGSPPWPRLDNHFSLMYHIAAHNPPIIPADDQLSPLGQNFLKRCFVSDPNQRATAAELLMDPWVYPLRAGTEFDLMNSSVVESAPSTNGAPLEL |
| 2015 | sp|Q08831|VTS1\_YEAST | MKHPYEEFPTGSKSPYNMSRGAHPGAVLLSPQSSAINKNNPGSNSGNNQGNSSVTANVLSPQSHSMSLNDMLDQQSFMLDTAGTRAQPLQQQQQQQQQQQQASLPSLNIQTVSSTAAGSAIVSPMMQSPKALQSTLSSTSMYLDSFQRSPNNILGIPSQSGSIPLPQSRQSQQQSQSQKNDPNMGTNFSQDINQLCSWISMLNSSQQNTVMDNILSILNDDVLKYTKLKIETLTNTPFISPPLPAIASPIPNRDDTQILNIDSVFSSSPITNDPENTDNLLYQNWSPQPHSIPISQPIYDNITDASQRSKSAEPHVNSSPNLIPVQKQFNNGNSTKYKKLPSENPNYLSHSLSSSHSFFQPKKRSNMGNEYNSHHHHSLHHPLHNTTSYFSNTSRPSGTDLNKSNQNVFNNTITHPNAGPTSATSTSTSSNGNTPLSSNSSMNPKSLTDPKLLKNIPMWLKSLRLHKYSDALSGTPWIELIYLDDETLEKKGVLALGARRKLLKAFGIVIDYKERDLIDRSAY |
| 2016 | sp|P93026|VSR1\_ARATH | MKLGLFTLSFLLILNLAMGRFVVEKNNLKVTSPDSIKGIYECAIGNFGVPQYGGTLVGTVVYPKSNQKACKSYSDFDISFKSKPGRLPTFVLIDRGDCYFTLKAWIAQQAGAAAILVADSKAEPLITMDTPEEDKSDADYLQNITIPSALITKTLGDSIKSALSGGDMVNMKLDWTESVPHPDERVEYELWTNSNDECGKKCDTQIEFLKNFKGAAQILEKGGHTQFTPHYITWYCPEAFTLSKQCKSQCINHGRYCAPDPEQDFTKGYDGKDVVVQNLRQACVYRVMNDTGKPWVWWDYVTDFAIRCPMKEKKYTKECADGIIKSLGIDLKKVDKCIGDPEADVENPVLKAEQESQIGKGSRGDVTILPTLVVNNRQYRGKLEKGAVLKAMCSGFQESTEPAICLTEDLETNECLENNGGCWQDKAANITACRDTFRGRLCECPTVQGVKFVGDGYTHCKASGALHCGINNGGCWRESRGGFTYSACVDDHSKDCKCPLGFKGDGVKNCEDVDECKEKTVCQCPECKCKNTWGSYECSCSNGLLYMREHDTCIGSGKVGTTKLSWSFLWILIIGVGVAGLSGYAVYKYRIRSYMDAEIRGIMAQYMPLESQPPNTSGHHMDI |
| 2017 | sp|O95785|WIZ\_HUMAN | MEGSLAGSLAAPDRPQGPERLPGPAPRENIEGGAEAAEGEGGIFRSTRYLPVTKEGPRDILDGRGGISGTPDGRGPWEHPLVQEAGEGILSERRFEDSVIVRTMKPHAELEGSRRFLHHRGEPRLLEKHAQGRPRFDWLQDEDEQGSPQDAGLHLDLPAQPPPLAPFRRVFVPVEDTPKTLDMAVVGGREDLEDLEGLAQPSEWGLPTSASEVATQTWTVNSEASVERLQPLLPPIRTGPYLCELLEEVAEGVASPDEDEDEEPAVFPCIECSIYFKQKEHLLEHMSQHRRAPGQEPPADLAPLACGECGWAFADPTALEQHRQLHQASREKIIEEIQKLKQVPGDEGREARLQCPKCVFGTNSSRAYVQHAKLHMREPPGQTTKEPFGGSSGAGSPSPEASALLYQPYGAAVGLSACVFCGFPAPSESLLREHVRLVHAHPHWEEDGEAYEEDPASQPGTSQDAHACFPDTAVDYFGKAEPSLAPMWRENPAGYDPSLAFGPGCQQLSIRDFPLSKPLLHGTGQRPLGRLAFPSTLASTPYSLQLGRNKSTVHPQGLGERRRPWSEEEEEEEEEEDVVLTSEMDFSPENGVFSPLATPSLIPQAALELKQAFREALQAVEATQGQQQQLRGMVPIVLVAKLGPQVMAAARVPPRLQPEELGLAGAHPLDFLLLDAPLGGPLGLDTLLDGDPAMALKHEERKCPYCPDRFHNGIGLANHVRGHLNRVGVSYNVRHFISAEEVKAIERRFSFQKKKKKVANFDPGTFSLMRCDFCGAGFDTRAGLSSHARAHLRDFGITNWELTVSPINILQELLATSAAEQPPSPLGREPGGPPGSFLTSRRPRLPLTVPFPPTWAEDPGPAYGDAQSLTTCEVCGACFETRKGLSSHARSHLRQLGVAESESSGAPIDLLYELVKQKGLPDAHLGLPPGLAKKSSSLKEVVAGAPRPGLLSLAKPLDAPAVNKAIKSPPGFSAKGLGHPPSSPLLKKTPLALAGSPTPKNPEDKSPQLSLSPRPASPKAQWPQSEDEGPLNLTSGPEPARDIRCEFCGEFFENRKGLSSHARSHLRQMGVTEWYVNGSPIDTLREILKRRTQSRPGGPPNPPGPSPKALAKMMGGAGPGSSLEARSPSDLHISPLAKKLPPPPGSPLGHSPTASPPPTARKMFPGLAAPSLPKKLKPEQIRVEIKREMLPGALHGELHPSEGPWGAPREDMTPLNLSSRAEPVRDIRCEFCGEFFENRKGLSSHARSHLRQMGVTEWSVNGSPIDTLREILKKKSKPCLIKKEPPAGDLAPALAEDGPPTVAPGPVQSPLPLSPLAGRPGKPGAGPAQVPRELSLTPITGAKPSATGYLGSVAAKRPLQEDRLLPAEVKAKTYIQTELPFKAKTLHEKTSHSSTEACCELCGLYFENRKALASHARAHLRQFGVTEWCVNGSPIETLSEWIKHRPQKVGAYRSYIQGGRPFTKKFRSAGHGRDSDKRPSLGLAPGGLAVVGRSAGGEPGPEAGRAADGGERPLAASPPGTVKAEEHQRQNINKFERRQARPPDASAARGGEDTNDLQQKLEEVRQPPPRVRPVPSLVPRPPQTSLVKFVGNIYTLKCRFCEVEFQGPLSIQEEWVRHLQRHILEMNFSKADPPPEESQAPQAQTAAAEAP |
| 2018 | sp|Q19404|YAP1\_CAEEL | MASKSIHKKHQENSQQDKNQFSVHHYLDPNQSIHALISCSEKKYEKNQNQKKNPLPSSYYHQKRNPGSSAHSPYGSVDESSRTAVSPAMDMVSNQAPIHTRQVSAPNLHTSVNNGQSSATVPHPSHHNVHHQHSKSVSALPMTIGYSPVPSHVKSVSHEANYSYAGLSEIPQQQGMMQQNREKSLSLDPMRRPFMTPQDVEQLPMPQGWEMCYDSDGVRYFKDHNSKTTTWDDPRLKQQEQTGFGLGENIGQNRYNNCYDNGHSSRSLPSIHQHQQMIPNHPQPQYSSQQQMDYIQQLQNERMMIQEKNAQLINSGLVDSPQPPYQAISPMSSTMMHSHDPNFMYQQQQQAQNSQQQQTPHTLHQIPNQYQNSQMNDDSAMEVDYSMVSHPQQLQHQHQPHMHNNMPSNYVIDDINPHEFDQYLQISNDNNRGVGSMVHHYQ |
| 2019 | sp|Q47149|YAFQ\_ECOLI | MIQRDIEYSGQYSKDVKLAQKRHKDMNKLKYLMTLLINNTLPLPAVYKDHPLQGSWKGYRDAHVEPDWILIYKLTDKLLRFERTGTHAALFG |
| 2020 | sp|Q9JMD0|ZN207\_MOUSE | MGRKKKKQLKPWCWYCNRDFDDEKILIQHQKAKHFKCHICHKKLYTGPGLAIHCMQVHKETIDAVPNAIPGRTDIELEIYGMEGIPEKDMDERRRLLEQKTQESQKKKQQDDSDEYDDDESAASTSFQPQPVQPQQGYIPPMAQPGLPPVPGAPGMPPGIPPLMPGVPPLMPGMPPVMPGMPPGLHHQRKYTQSFCGENIMMPMGGMMPPGPGIPPLMPGMPPGMPPPVPRPGIPPMTQAQAVSAPGILNRPPAPTAAVPAPQPPVTKPLFPSAGQMGTPVTSSSTASSNSESLSASSKALFPSTAQAQAAVQGPVGTDFKPLNSTPAATTTEPPKPTFPAYTQSTASTTSTTNSTAAKPAASITSKPATLTTTSATSKLIHPDEDISLEERRAQLPKYQRNLPRPGQTPIGNPPVGPIGGMMPPQPGLPQQQAMRPPMPPHGQYGGHHQGMPGYLPGAMPPYGQGPPMVPPYQGGPPRPPMGMRPPVMSQGGRY |
| 2021 | sp|P97441|ZNT3\_MOUSE | MEPSLATGGSETTRLVSARDRSSAGGGLRLKSLFTEPSEPLPEEPKLEGMAFHHCHKDPVPQSGLSPERVQARRQLYAACAVCFIFMAGEVVGGYLAHSLAIMTDAAHLLADIGSMLASLFSLWLSTRPATRTMTFGWHRSETLGALASVVSLWIVTGILLYLAFLRLLHSDYHIEAGAMLLTASIAVCANLLMAFVLHQTGAPHSHGSTGAEYAPLEEGHGYPMSLGNTSVRAAFVHVLGDLLQSFGVLAASILIYFKPQYKVADPISTFLFSICALGSTAPTLRDVLLVLMEGAPRSVEFEPVRDTLLSVPGVRATHDLHLWALTLTYHVASAHLAIDSTADPEAVLAEASSRLYSRFGFSSCTLQVEQYQPEMAQCLRCQEPSQA |
| 2022 | sp|Q9Z0U1|ZO2\_MOUSE | MEEVIWEQYTVTLQKDSKRGFGIAVSGGRDNPHFENGETSIVISDVLPGGPADGLLQENDRVVMVNGTPMEDVLHSFAVQQLRKSGKIAAIVVKRPRKVQVAPLQGSPPLSHDDRGFEVIEEFDGRSFRSGYSERSRHSSHDMLSHSWEGNRERGRPHQRTQSRERERSRGRSLERGLDQEDYGRSRERSRGRSLERGLDRDFVSRDHSRGRSIDRDYDRDYERSYHEAYEPDYGGGYSPSYDRRAHPETRYERSRSREHLRSRSPSPESRSRHEHKGQHDPDRPIGVLLTKSKANEEYGLRLGSQIFIKEMTRTGLATKDGNLHEGDIILKINGTVTENMSLTDARKLIEKSRGKLQLVVLRDSKQTLINIPALNDSDSEVEDISEIESNRSFSPEERRQQYSDQDYHSSTEKLKERPSSREETSGRLSRMGATPTPFKSTGDITAAGVTEASREPRYQEEGPVPQPRTAPRVFLRPSPEDEAIYGPNTKMVRFKKGDSVGLRLAGGNDVGIFVAGIQEGTSAEQEGLQEGDQILKVNTQDFRGLVREDAVLYLLEIPKGETVTILAQSRADVYRDILACGRGDSFFIRSHFECEKETPQSLAFTRGEVFRVVDTLYDGKLGHWLAVRIGNELEKGLIPNKSRAEQMASVQNAQRENAGDRADFWRMRGQRSSGGVKKNLRKSREDLAAAVSVSTKFPAYEKVLLREAGFKRPVVLFGPIADIAMERLATELPDLFQTAKTEPKDAGSEKSSGVVRLNTVRQIIEQDKHALLDVTPKAVDLLNYTQWFPIVIFFNPDSRQGVKTIRQRLSPTSNKSSRKLFDQANKLKKTCSHLFTATINVNSANDGWFGSLKDSIQQQQNEAVWVSEGKMEGMDDDAEDRMSYLTAMGADYLSCDSRLISDFEDTDGEGGAYTDNELEEPAEEPLVSSITRSSEPVQHEENIRKSSPEPRAQMRRAASRDQLRDASPPPAFKPEPPKARSQNREDSFDYSKSNLPATAGSEIPGGSTKGYPPPIAAKPAFGRPILKPSTPVPMPESEEVGESTEEQEDAPRSVLGRVKIFEKMDHKAKLQRMQELQEAQNARIEIAQKHPDIYAVPIKAPKPDAGLPPHMSSRPPEPQKAPSRLYQDTRGSYGSDPEEEEYRQQLAAHSKRGYYSQPSRYRDTEL |
| 2023 | sp|Q9GZX5|ZN350\_HUMAN | MIQAQESITLEDVAVDFTWEEWQLLGAAQKDLYRDVMLENYSNLVAVGYQASKPDALFKLEQGEQLWTIEDGIHSGACSDIWKVDHVLERLQSESLVNRRKPCHEHDAFENIVHCSKSQFLLGQNHDIFDLRGKSLKSNLTLVNQSKGYEIKNSVEFTGNGDSFLHANHERLHTAIKFPASQKLISTKSQFISPKHQKTRKLEKHHVCSECGKAFIKKSWLTDHQVMHTGEKPHRCSLCEKAFSRKFMLTEHQRTHTGEKPYECPECGKAFLKKSRLNIHQKTHTGEKPYICSECGKGFIQKGNLIVHQRIHTGEKPYICNECGKGFIQKTCLIAHQRFHTGKTPFVCSECGKSCSQKSGLIKHQRIHTGEKPFECSECGKAFSTKQKLIVHQRTHTGERPYGCNECGKAFAYMSCLVKHKRIHTREKQEAAKVENPPAERHSSLHTSDVMQEKNSANGATTQVPSVAPQTSLNISGLLANRNVVLVGQPVVRCAASGDNRGFAQDRNLVNAVNVVVPSVINYVLFYVTENP |
| 2024 | sp|Q96IQ9|ZN414\_HUMAN | MEEKPSGPIPDMLATAEPSSSETDKEVLSPAVPAAAPSSSMSEEPGPEQAATPPVWERGGAGGMQQGSSPAPDSCQPGPGPSPGLTSIVSGTSEDLRPPRRRPPPGKQIPCSSPGCCLSFPSVRDLAQHLRTHCPPTQSLEGKLFRCSALSCTETFPSMQELVAHSKLHYKPNRYFKCENCLLRFRTHRSLFKHLHVCAEHAQSPAPPPPPALDREPPAPERPPEVDPASAPGLPFPLLEPFTTPAPAPTGPFLPYLNPAPFGLSPPRLRPFLAAAPGPPASSAAVWKKSQGAGSSPRRPQGGSDAPSGACR |
| 2025 | sp|P97708|ZP3\_RAT | MGPSCLLFLCLLLCGGPELCYPQTQWLLPGGTPTPAGSSSPVEVECKEAELVVTVRRDLFGTGKLVQPGDLTLGSEGCQPLVAVDTDVVRLNAQLHECSSGVQVTEDALVYNTFLLHDPRPVNGLSILRTNRVEVPIECRYPRQGNVSSHPIQPTWVPFSATVSSEEKLAFSLRLMEEDWNTEKSSPTFHLGEVAHLQAEVQTGSHLPLQLFVDHCVATPSPLPGQNSSPHHFIVDSHGCLVDGLSESFSAFQVPRPRPETLQFTVDVFHFANSSRNTVYITCHLKVAPANQIPDKLNKACSFNKTSQSWLPVEGDADICDCCSNGNCSNSSSSEFETHEPAQWSTLVSRNRRHVTDEADVTVGPLIFLGKANDQAVEGWTSSAQTSVALGLGLATVAFLTLAAIVLGVTRKCHTSSYLVSLPQ |
| 2026 | sp|Q8R1N0|ZN830\_MOUSE | MASSTSTRTPAGKRVVNQEELRRLMREKQRLSTNRKRIESPFAKYNRLGQLSCALCNTPVKSELLWQTHVLGKQHRERVAELKGAKGATQGPSTGTVPQATKRRATDVESQDAKKAKASAGPQVQPSTSASSANLDAARAAPSKPGLGLLPDYDDEEEEEEEGGGEERRDSSKHLPDAQGKEHSLASPRETTSNVLPNDPFNTNPPKAPLVPHSGSIEKAEIHEKVVERRENTAEALPEGFFDDPEVDAKVRKVDAPKDQMDKEWDEFQKAMRQVNTISEAIVAEEDEEGRLDRQIGEIDEQIECYRRVEKLRNRQDEIKNKLKEVLTIKELQKKEEENVDSDDEGELQDLLSQDWRVKGALL |
| 2027 | sp|Q9Y2P0|ZN835\_HUMAN | MEGLLSVALQGAELEGNWKHEGQVEDLQENQESCPEPEAVACKGDPAGDSMQERDEFSRIPRTISSPAATQASVPDDSSSRRCSAPGESPKERHPDSRQRERGGGPKKPWKCGDCGKAFSYCSAFILHQRIHTGEKPFACPECGKAFSQSVHLTLHQRTHTGEKPYACHECGKAFSQGSYLASHWRTHTGEKPHRCADCGKAFTRVTHLTQHRRVHTGERPYACAQCAKAFRNRSSLIEHQRIHTGEKPYECSACAKAFRFSSALIRHQRIHTEEKPYRCGQCAKAFAQIAHLTQHRRVHTGEKPYTCQDCGALFSQSASLAEHRRIHTGEKPYACGQCAKAFTQVSHLTQHQRTHTGERPYPCHDCGKRFSNRSHLLQHRLVHTGERPYRCLQCGAAFSHVSSLIEHQKIHTGERPYKCGECGKAFSQGSSLALHQRTHTGERPYTCPECGKAFSNRSYLIQHHIVHTGEKPYECSGCGKAFSFSSALIRHQRTHADSSGRLCPAPTPDSTPGLSQGGETCQQGCPGRNPRGPAED |
| 2028 | sp|Q8NDP4|ZN439\_HUMAN | MLSLSPILLYTCEMFQDPVAFKDVAVNFTQEEWALLDISQKNLYREVMLETFWNLTSIGKKWKDQNIEYEYQNPRRNFRSVTEEKVNEIKEDSHCGETFTPVPDDRLNFQKKKASPEVKSCDSFVCEVGLGNSSSNMNIRGDTGHKACECQEYGPKPWKSQQPKKAFRYHPSLRTQERDHTGKKPYACKECGKNIIYHSSIQRHMVVHSGDGPYKCKFCGKAFHCLSLYLIHERTHTGEKPYECKQCGKSFSYSATHRIHERTHIGEKPYECQECGKAFHSPRSCHRHERSHMGEKAYQCKECGKAFMCPRYVRRHERTHSRKKLYECKQCGKALSSLTSFQTHIRMHSGERPYECKTCGKGFYSAKSFQRHEKTHSGEKPYKCKQCGKAFTRSGSFRYHERTHTGEKPYECKQCGKAFRSAPNLQLHGRTHTGEKPYQCKECGKAFRSASQLRIHRRIHTGEKPYECKKCGKAFRYVQNFRFHERTQTHKNALWRKTL |
| 2029 | sp|Q9BRR0|ZKSC3\_HUMAN | MARELSESTALDAQSTEDQMELLVIKVEEEEAGFPSSPDLGSEGSRERFRGFRYPEAAGPREALSRLRELCRQWLQPEMHSKEQILELLVLEQFLTILPGNLQSWVREQHPESGEEVVVLLEYLERQLDEPAPQVSGVDQGQELLCCKMALLTPAPGSQSSQFQLMKALLKHESVGSQPLQDRVLQVPVLAHGGCCREDKVVASRLTPESQGLLKVEDVALTLTPEWTQQDSSQGNLCRDEKQENHGSLVSLGDEKQTKSRDLPPAEELPEKEHGKISCHLREDIAQIPTCAEAGEQEGRLQRKQKNATGGRRHICHECGKSFAQSSGLSKHRRIHTGEKPYECEECGKAFIGSSALVIHQRVHTGEKPYECEECGKAFSHSSDLIKHQRTHTGEKPYECDDCGKTFSQSCSLLEHHRIHTGEKPYQCSMCGKAFRRSSHLLRHQRIHTGDKNVQEPEQGEAWKSRMESQLENVETPMSYKCNECERSFTQNTGLIEHQKIHTGEKPYQCNACGKGFTRISYLVQHQRSHVGKNILSQ |
| 2030 | sp|Q06102|YTH1\_YEAST | MSLIHPDTAKYPFKFEPFLRQEYSFSLDPDRPICEFYNSREGPKSCPRGPLCPKKHVLPIFQNKIVCRHWLRGLCKKNDQCEYLHEYNLRKMPECVFFSKNGYCTQSPDCQYLHIDPASKIPKCENYEMGFCPLGSSCPRRHIKKVFCQRYMTGFCPLGKDECDMEHPQFIIPDEGSKLRIKRDDEINTRKMDEEKERRLNAIINGEV |
| 2031 | sp|Q9UEG4|ZN629\_HUMAN | MEPETALWGPDLQGPEQSPNDAHRGAESENEEESPRQESSGEEIIMGDPAQSPESKDSTEMSLERSSQDPSVPQNPPTPLGHSNPLDHQIPLDPPAPEVVPTPSDWTKACEASWQWGALTTWNSPPVVPANEPSLRELVQGRPAGAEKPYICNECGKSFSQWSKLLRHQRIHTGERPNTCSECGKSFTQSSHLVQHQRTHTGEKPYKCPDCGKCFSWSSNLVQHQRTHTGEKPYKCTECEKAFTQSTNLIKHQRSHTGEKPYKCGECRRAFYRSSDLIQHQATHTGEKPYKCPECGKRFGQNHNLLKHQKIHAGEKPYRCTECGKSFIQSSELTQHQRTHTGEKPYECLECGKSFGHSSTLIKHQRTHLREDPFKCPVCGKTFTLSATLLRHQRTHTGERPYKCPECGKSFSVSSNLINHQRIHRGERPYICADCGKSFIMSSTLIRHQRIHTGEKPYKCSDCGKSFIRSSHLIQHRRTHTGEKPYKCPECGKSFSQSSNLITHVRTHMDENLFVCSDCGKAFLEAHELEQHRVIHERGKTPARRAQGDSLLGLGDPSLLTPPPGAKPHKCLVCGKGFNDEGIFMQHQRIHIGENPYKNADGLIAHAAPKPPQLRSPRLPFRGNSYPGAAEGRAEAPGQPLKPPEGQEGFSQRRGLLSSKTYICSHCGESFLDRSVLLQHQLTHGNEKPFLFPDYRIGLGEGAGPSPFLSGKPFKCPECKQSFGLSSELLLHQKVHAGGKSSQKSPELGKSSSVLLEHLRSPLGARPYRCSDCRASFLDRVALTRHQETHTQEKPPNPEDPPPEAVTLSTDQEGEGETPTPTESSSHGEGQNPKTLVEEKPYLCPECGAGFTEVAALLLHRSCHPGVSL |
| 2032 | sp|Q969W1|ZDH16\_HUMAN | MRGQRSLLLGPARLCLRLLLLLGYRRRCPPLLRGLVQRWRYGKVCLRSLLYNSFGGSDTAVDAAFEPVYWLVDNVIRWFGVVFVVLVIVLTGSIVAIAYLCVLPLILRTYSVPRLCWHFFYSHWNLILIVFHYYQAITTPPGYPPQGRNDIATVSICKKCIYPKPARTHHCSICNRCVLKMDHHCPWLNNCVGHYNHRYFFSFCFFMTLGCVYCSYGSWDLFREAYAAIEKMKQLDKNKLQAVANQTYHQTPPPTFSFRERMTHKSLVYLWFLCSSVALALGALTVWHAVLISRGETSIERHINKKERRRLQAKGRVFRNPYNYGCLDNWKVFLGVDTGRHWLTRVLLPSSHLPHGNGMSWEPPPWVTAHSASVMAV |
| 2033 | sp|P62277|RS13\_HUMAN | MGRMHAPGKGLSQSALPYRRSVPTWLKLTSDDVKEQIYKLAKKGLTPSQIGVILRDSHGVAQVRFVTGNKILRILKSKGLAPDLPEDLYHLIKKAVAVRKHLERNRKDKDAKFRLILIESRIHRLARYYKTKRVLPPNWKYESSTASALVA |
| 2034 | sp|Q01080|RPA49\_YEAST | MSVKRSVSEIEIESVQDQPSVAVGSFFKGFRAPSDTTFDLYKKKKSEKDEFVLHGENERLEYEGYTDSSSQASNQYVVGLFNPEKKSIQLYKAPVLVSKVVSKSSKNLRGPKIKSKSDTRPSALRNALGEAFGTKKAKKAIADLERNRIDSDKLTDSAIDIVDSVRTASKDLPTRAQLDEITSNDRPTPLANIDATDVEQIYPIESIIPKKELQFIRVSSILKEADKEKKLELFPYQNNSKYVAKKLDSLTQPSQMTKLQLLYYLSLLLGVYENRRVNNKTKLLERLNSPPEILVDGILSRFTVIKPGQFGRSKDRSYFIDPQNEDKILCYILAIIMHLDNFIVEITPLAHELNLKPSKVVSLFRVLGAIVKGATVAQAEAFGIPKSTAASYKIATMKVPFKLPEMTRRGRGPRR |
| 2035 | sp|O15446|RPA34\_HUMAN | MEEPQAGDAARFSCPPNFTAKPPASESPRFSLEALTGPDTELWLIQAPADFAPECFNGRHVPLSGSQIVKGKLAGKRHRYRVLSSCPQAGEATLLAPSTEAGGGLTCASAPQGTLRILEGPQQSLSGSPLQPIPASPPPQIPPGLRPRFCAFGGNPPVTGPRSALAPNLLTSGKKKKEMQVTEAPVTQEAVNGHGALEVDMALGSPEMDVRKKKKKKNQQLKEPEAAGPVGTEPTVETLEPLGVLFPSTTKKRKKPKGKETFEPEDKTVKQEQINTEPLEDTVLSPTKKRKRQKGTEGMEPEEGVTVESQPQVKVEPLEEAIPLPPTKKRKKEKGQMAMMEPGTEAMEPVEPEMKPLESPGGTMAPQQPEGAKPQAQAALAAPKKKTKKEKQQDATVEPETEVVGPELPDDLEPQAAPTSTKKKKKKKERGHTVTEPIQPLEPELPGEGQPEARATPGSTKKRKKQSQESRMPETVPQEEMPGPPLNSESGEEAPTGRDKKRKQQQQQPV |
| 2036 | sp|Q3T169|RS3\_BOVIN | MAVQISKKRKFVADGIFKAELNEFLTRELAEDGYSGVEVRVTPTRTEIIILATRTQNVLGEKGRRIRELTAVVQKRFGFPEGSVELYAEKVATRGLCAIAQAESLRYKLLGGLAVRRACYGVLRFIMESGAKGCEVVVSGKLRGQRAKSMKFVDGLMIHSGDPVNYYVDTAVRHVLLRQGVLGIKVKIMLPWDPTGKIGPKKPLPDHVSIVEPKDEILPTTPISEQKGGKPEPPAMPQPVPTA |
| 2037 | sp|P0AFX7|RSEA\_ECOLI | MQKEQLSALMDGETLDSELLNELAHNPEMQKTWESYHLIRDSMRGDTPEVLHFDISSRVMAAIEEEPVRQPATLIPEAQPAPHQWQKMPFWQKVRPWAAQLTQMGVAACVSLAVIVGVQHYNGQSETSQQPETPVFNTLPMMGKASPVSLGVPSEATANNGQQQQVQEQRRRINAMLQDYELQRRLHSEQLQFEQAQTQQAAVQVPGIQTLGTQSQ |
| 2038 | sp|A8JUV0|SBNO\_DROME | MTSKKRKTLLDADDDNDNFDEDDSGSDFDDDEDPDQIEVPGGGRDLNTAVTYAQNIRSGVGVAPKGGIPIPISGAKIVVGNNKIKPISLLRINNNNNNIVTSVNNRNNNNIISTNGSSNNNNNSINNNSQIIKTTTVTTTPTTVGATPTVGGVALGGKLTVIPIAGRNVALDNNLSNMPKKLNNMVTAMGSPAARSSGNAGTTGSSQGGAIGSTSSYLNSLTTNELMNLAAYVAAKGSNAPPPPPPSTAANSVRHSPTGGIPNPGGNFFGGSAAASTSASAANFNMAASLLAQMSYAGGASQIRALKVAGNIGGVGNNQKPPPIATTPGSGGPAGGAPGSGVKGNNSMMEAVQKLIAMNPEYLTSGIPNTVFQMFMQSMQRPQATPSPNQPMNPGAMVTSAAAAAAHASAVAYVQQEEDEVDYEEMGVAETYADYWPAKLKLGKKHPDAVVETASLSSVEPCDVYYKLSLPLETINSGHLSALQLESITYASQAHDHLLPDGSRAGFLIGDGAGVGKGRTIAGIIYENYLKGRKKALWISVSNDLKYDAERDLSDIGATRIEVHALNKFKYAKISSDVNNNCKRGVIFSTYSALIGESNNKTGKYRSRFRQLLQWCGEDFEGLIIFDECHKAKNLCPVGSGKPTKTGQTVLELQQKLPKARVVYASATGASEPKNMAYMVRLGLWGQGTAFGNFNDFITAVERRGVGAMEIVAMDMKLRGMYIARQLSFKGVSFKIEEVPLSKEFRKIYDQSVELWVEAMQKFTEAAELIDAESRMKKTMWGQFWSSHQRFFKYLCIAAKVNHAVLVARESIKYGKCVVIGLQSTGEARTLDQLERDDGELTDFVSTAKGVFQSFVERHFPAPDRNRINRILGLYDETPSLSSVADSTSSLSNNSNITTAAGKRKGSNNNDNRSTKIKKKKRSGSWECSDSEDENTDMKRNRKRDGGNSNSDSDEANSDDDLKSDIDDEDEDHDVDSDQRSVASDASSDFNPFFSGSDSDIDPWVNARSKKSKKAQKKSKKKVKKEKTKKEITTSSATDPSGSTAMSATVVAALNAVKNRKSQLSTQDKIQDLLQKKQELKGTVTPVGVNGVKLNYGPPPKDAIERACTMKEELLRKIERLGARLPPNTLDQLIDELGGPDNVAEMTGRRGRVVQTDDGSIQYESRTESDVPLETLNITEKQRFMDGEKDVAIISEAASSGISLQSDRRVFNQRRRVHITLELPWSADRAIQQFGRTHRSNQVNAPEYIFLISDLAGERRFASTVAKRLESLGALTHGDRRATETRDLSQFNIDNKYGRQALETVMRTIMGYESPLVPPPTDYSGEFFKDIAGALVGVGIIVNSESHPGVLSLDKDYNNISKFLNRILGCPVDLQNRLFKYFTDTMTAIIQQAKRGGRFDLGILDLGAAGENVTRVRLIRFVRKHATGVAPTEMHTVRVERGMIWQEAIDKYADLFNENEGFYLSHQLRNQKRTAIMVVILESRNSSSTSSTTDLDSGSKKKKTHSKKEIMCQIYRPNTGLQVRHESLFELEKKYRKVASEEAEPHWTEQYDASVNTCSHAYWNGNCRNVSLGNDCEVGLRQRLYHVLAGSVLSVWGRVEHILNTRSNSKMQVIRMKTTEGEKIVGTLIPKSCFEPLVADLRSDSEKQEEFNY |
| 2039 | sp|O34530|RSGA\_BACSU | MPEGKIIKALSGFYYVLDESEDSDKVIQCRGRGIFRKNKITPLVGDYVVYQAENDKEGYLMEIKERTNELIRPPICNVDQAVLVFSAVQPSFSTALLDRFLVLVEANDIQPIICITKMDLIEDQDTEDTIQAYAEDYRNIGYDVYLTSSKDQDSLADIIPHFQDKTTVFAGQSGVGKSSLLNAISPELGLRTNEISEHLGRGKHTTRHVELIHTSGGLVADTPGFSSLEFTDIEEEELGYTFPDIREKSSSCKFRGCLHLKEPKCAVKQAVEDGELKQYRYDHYVEFMTEIKDRKPRY |
| 2040 | sp|Q86UD0|SAPC2\_HUMAN | MAGAAMAERGRVPPPAPAPSTEGLPRAFLQSLRTLFDILDDRRRGCVHLREIESRWQGTDARELPRGVLEGLRQVAPASGYLTFERFVAGLRTSLLSADGGPRDPTRAPARPGDQPPPPPQRLVFAPADEPRTVLERKPLPLGVRAPLAGPSAAARSPEQLCAPAEAAPCPAEPERSQSAALEPSSSADAGAVACRALEADSGDARRAPRARGERRRHTIASGVDCGLLKQMKELEQEKEVLLQGLEMMARGRDWYQQQLQRVQERQRRLGQSRASADFGAAGSPRPLGRLLPKVQEVARCLGELLAAACASRALPPSSSGPPCPALTSTSPPVWQQQTILMLKEQNRLLTQEVTEKSERITQLEQEKSALIKQLFEARALSQQDGGPLDSTFI |
| 2041 | sp|P50443|S26A2\_HUMAN | MSSESKEQHNVSPRDSAEGNDSYPSGIHLELQRESSTDFKQFETNDQCRPYHRILIERQEKSDTNFKEFVIKKLQKNCQCSPAKAKNMILGFLPVLQWLPKYDLKKNILGDVMSGLIVGILLVPQSIAYSLLAGQEPVYGLYTSFFASIIYFLLGTSRHISVGIFGVLCLMIGETVDRELQKAGYDNAHSAPSLGMVSNGSTLLNHTSDRICDKSCYAIMVGSTVTFIAGVYQVAMGFFQVGFVSVYLSDALLSGFVTGASFTILTSQAKYLLGLNLPRTNGVGSLITTWIHVFRNIHKTNLCDLITSLLCLLVLLPTKELNEHFKSKLKAPIPIELVVVVAATLASHFGKLHENYNSSIAGHIPTGFMPPKVPEWNLIPSVAVDAIAISIIGFAITVSLSEMFAKKHGYTVKANQEMYAIGFCNIIPSFFHCFTTSAALAKTLVKESTGCHTQLSGVVTALVLLLVLLVIAPLFYSLQKSVLGVITIVNLRGALRKFRDLPKMWSISRMDTVIWFVTMLSSALLSTEIGLLVGVCFSIFCVILRTQKPKSSLLGLVEESEVFESVSAYKNLQIKPGIKIFRFVAPLYYINKECFKSALYKQTVNPILIKVAWKKAAKRKIKEKVVTLGGIQDEMSVQLSHDPLELHTIVIDCSAIQFLDTAGIHTLKEVRRDYEAIGIQVLLAQCNPTVRDSLTNGEYCKKEEENLLFYSVYEAMAFAEVSKNQKGVCVPNGLSLSSD |
| 2042 | sp|P31214|S5A2\_RAT | MQIVCHQVPVLAGSATLATMGTLILCLGKPASYGKHTESVSSGVPFLPARIAWFLQELPSFVVSVGMLAWQPRSLFGPPGNVLLALFSAHYFHRTFIYSLLTRGRPFPAVLFLRATAFCIGNGLLQAYYLVYCAEYPEEWYTDVRFSFGVFLFILGMGINIHSDYTLRQLRKPGEVIYRIPRGGLFTYVSGANFLGEIIEWIGYALATWSVPAFAFAFFTLCFLGMQAFYHHRFYLKMFKDYPKSRKALIPFIF |
| 2043 | sp|Q6R6I7|RXFP1\_MOUSE | MTSGPFFFCIFIIGKYFTLGSAQDVSCPLGSFPCGNMSRCLPQLLHCNGVDDCGNRADEDHCGDNNGWSLQLDKYFANYYKLASTNSFEAETSECLVGSVPMHCLCRDLELDCDEANLRAVPSVSSNVTVMSLQRNFIRTLPPNGFRKYHELQKLCLQNNRIHSVSVSAFRGLRSLTKLYLSHNRITFLKPGVFEDLHRLEWLIIEDNHLSRISPLTFYGLNSLILLVLMNNALTRLPDKPLCQHMPRLHWLDFEGNRIHNLRNLTFISCNNLTVLVMRKNKINYLNEHAFTHLQKLDELDLGSNKIENLPPNIFKDLKELSQLNISYNPIQKIEVNQFDCLAKLKSLSLEGIEISNIQQRMFRPLINLSHIYFKKFQYCGYAPHVRSCKPNTDGISSLENLLASIIQRVFVWVVSAITCFGNIFVICMRPYIRSENKLHAMSIISLCCADCLMGVYLFVIGAFDLKFRGEYNKHAQPWMESVHCQFMGSLAILSTEVSVLLLTFLTLEKYICIVYPFRCLRPRKCRTITVLIFIWIIGFIVAFAPLGNKEFFKNYYGTNGVCFPLHSEDTGSTGAQIYSVVIFLGINLVAFIIIVFSYGSMFYSVHQSSVTVTEIQKQVKKEVVLAKRFFFIVFTDALCWIPIFILKFLSLLQVEIPDSITSWVVIFILPINSALNPIIYTLTTRPFKEMIHQLWHNYRQRRSVDRKETQKAYAPSFIWVEMWPLQEMSSGFMKPGAFTDPCDLSLVSQSSRLNSYS |
| 2044 | sp|Q8VEB2|SAV1\_MOUSE | MLSRKKTKNEVSKPAEVQGKYVKKETSPLLRNLMPSFIRHGPTIPRRTDLCLPDSSATAFSASGDGVVSRNQSFLRTAIQRTPHEVMRRESHRLSAPSYLVRSLADVPRECGSSQSFLTEVNFAVENGDSGSRYFFSDNFFDGQRRRPLGDRAQEDYRYYEYNHDLFQRMPQSQGRHTSGIGRVTATSLGNLTNHGSEDLPLPPGWSVDWTMRGRKYYIDHNTNTTHWSHPLEREGLPPGWERVESSEFGTYYVDHTNKRAQYRHPCAPSVPRYDQPPPITYQPQQTERNQSLLVPANPYHTAEIPDWLQVYARAPVKYDHILKWELFQLADLDTYQGMLKLLFMKELEQIVKLYEAYRQALLTELENRKQRQQWYAQQHGKTFLS |
| 2045 | sp|Q12464|RUVB2\_YEAST | MSIQTSDPNETSDLKSLSLIAAHSHITGLGLDENLQPRPTSEGMVGQLQARRAAGVILKMVQNGTIAGRAVLVAGPPSTGKTALAMGVSQSLGKDVPFTAIAGSEIFSLELSKTEALTQAFRKSIGIKIKEETELIEGEVVEIQIDRSITGGHKQGKLTIKTTDMETIYELGNKMIDGLTKEKVLAGDVISIDKASGKITKLGRSFARSRDYDAMGADTRFVQCPEGELQKRKTVVHTVSLHEIDVINSRTQGFLALFTGDTGEIRSEVRDQINTKVAEWKEEGKAEIVPGVLFIDEVHMLDIECFSFINRALEDEFAPIVMMATNRGVSKTRGTNYKSPHGLPLDLLDRSIIITTKSYNEQEIKTILSIRAQEEEVELSSDALDLLTKTGVETSLRYSSNLISVAQQIAMKRKNNTVEVEDVKRAYLLFLDSARSVKYVQENESQYIDDQGNVQISIAKSADPDAMDTTE |
| 2046 | sp|Q86YT5|S13A5\_HUMAN | MASALSYVSKFKSFVILFVTPLLLLPLVILMPAKFVRCAYVIILMAIYWCTEVIPLAVTSLMPVLLFPLFQILDSRQVCVQYMKDTNMLFLGGLIVAVAVERWNLHKRIALRTLLWVGAKPARLMLGFMGVTALLSMWISNTATTAMMVPIVEAILQQMEATSAATEAGLELVDKGKAKELPGSQVIFEGPTLGQQEDQERKRLCKAMTLCICYAASIGGTATLTGTGPNVVLLGQMNELFPDSKDLVNFASWFAFAFPNMLVMLLFAWLWLQFVYMRFNFKKSWGCGLESKKNEKAALKVLQEEYRKLGPLSFAEINVLICFFLLVILWFSRDPGFMPGWLTVAWVEGETKYVSDATVAIFVATLLFIVPSQKPKFNFRSQTEEERKTPFYPPPLLDWKVTQEKVPWGIVLLLGGGFALAKGSEASGLSVWMGKQMEPLHAVPPAAITLILSLLVAVFTECTSNVATTTLFLPIFASMSRSIGLNPLYIMLPCTLSASFAFMLPVATPPNAIVFTYGHLKVADMVKTGVIMNIIGVFCVFLAVNTWGRAIFDLDHFPDWANVTHIET |
| 2047 | sp|P32368|SAC1\_YEAST | MTGPIVYVQNADGIFFKLAEGKGTNDAVIHLANQDQGVRVLGAEEFPVQGEVVKIASLMGFIKLKLNRYAIIANTVEETGRFNGHVFYRVLQHSIVSTKFNSRIDSEEAEYIKLLELHLKNSTFYFSYTYDLTNSLQRNEKVGPAASWKTADERFFWNHYLTEDLRNFAHQDPRIDSFIQPVIYGYAKTVDAVLNATPIVLGLITRRSIFRAGTRYFRRGVDKDGNVGNFNETEQILLAENPESEKIHVFSFLQTRGSVPIYWAEINNLKYKPNLVLGENSLDATKKHFDQQKELYGDNYLVNLVNQKGHELPVKEGYESVVHALNDPKIHYVYFDFHHECRKMQWHRVKLLIDHLEKLGLSNEDFFHKVIDSNGNTVEIVNEQHSVVRTNCMDCLDRTNVVQSVLAQWVLQKEFESADVVATGSTWEDNAPLLTSYQNLWADNADAVSVAYSGTGALKTDFTRTGKRTRLGAFNDFLNSASRYYQNNWTDGPRQDSYDLFLGGFRPHTASIKSPFPDRRPVYIQLIPMIICAALTVLGATIFFPKDRFTSSKNLLYFAGASIVLALSTKFMFKNGIQFVNWPKLVDVGFLVVHQTHDKEQQFKGLKYAQSPKFSKPDPLKRD |
| 2048 | sp|P40541|SCC3\_YEAST | MTAVRRSTRIRTKSQVIEEDYDDEQNTSAQHVESDKITAKTQHEEEEEQDTGESEESSSEDDYEDQDDDDYVDTATAKRKSRKRKPKSASNTSSKRQKKKPTSAQKSAVSHAPAYHRSKKDQDQYLEIAKDFQPTELFDILSTSEDVSIEELLREWLETYSENRDKFLQEFINLLLNCCGSVARVEDHDVHSNESSNETIGEIQLLFQRQKLHEFYLLISKENKKRKNFKMGPLYQNFAEFMTKLLEVANDLQLLYVESDEDDTQIVTGNLVLDLLTWLSSFSVCKIRCFRYISTLTLYLFQDYLTQQAVNLEKNYLAKLSKQLSLEEKKKRPNNKTLEKLESTIAETQGSKVVIDSIIDNIVKLCFVHRYKDVSDLIRSESMLHLSIWIKNYPEYFLKVTFLKYFGWLLSDNSVSVRLQVTKILPHLIIQNHNSKSTDNSAIRQVFERFKTKILEVAIRDVNLDVRIHSIQVLTEASSLGYLDDSEILIISSLMFDEEFDPFKTSSFNKRSKFLSTVAKFLARVIKEKFDEFIKTHEDLPKEVDGLEVGPVVQVGIFIKILNDSLIYHLKDCAEVDSRTKIRMLTQAAEFLSPYISTHLKTICNLLISDTESNELIQKLQNSANNNSDDEDVDDEELDITPLFPIDRNSTILYLNVFHGLCAGANNPKIQTKDSVKEIVLPLFYDLLNAASIESADILCPLLESFITFSLDDWISIGYETELKKITDKTIKAFMDSTIGNSKVDMKYDIFAKFIHHIHHFEKKELQEKFLNQIATLKIHLKKFLQEKMDPNNSRDDYKDLTCSLYELYINKLTILGRDYPIEVDEELLQLFLNNFVSRIPIMFQDFDDSTAQEINFKMLVLLATWNLEKWREIIEKVRDYENSISKDLRSVWKPIAAIIGRLNTLVISLAATNETFENINSLFYLKWSACTSLMDIIVAIKIFELKLPADATTWRYSMSEQFPFYLHDNASKVLLKIFLYLESLFAKQVDVQLERVADEDANLNDLPETGFFENIETEFLLFTVKLKGLMKLNILDERFASRVALNKEKLGPLFKKIVDDTIMENPEPNKKNIQKAKSNQTQREKAPLQPNSERETDHANTENNDPDIPMTIDLEPIEESSQNNSELAPIEEHPTVVDAIDNSDEITQD |
| 2049 | sp|Q61207|SAP\_MOUSE | MYALALFASLLATALTSPVQDPKTCSGGSAVLCRDVKTAVDCGAVKHCQQMVWSKPTAKSLPCDICKTVVTEAGNLLKDNATQEEILHYLEKTCEWIHDSSLSASCKEVVDSYLPVILDMIKGEMSNPGEVCSALNLCQSLQEYLAEQNQKQLESNKIPEVDMARVVAPFMSNIPLLLYPQDHPRSQPQPKANEDVCQDCMKLVSDVQTAVKTNSSFIQGFVDHVKEDCDRLGPGVSDICKNYVDQYSEVCVQMLMHMQDQQPKEICVLAGFCNEVKRVPMKTLVPATETIKNILPALEMMDPYEQNLVQAHNVILCQTCQFVMNKFSELIVNNATEELLVKGLSNACALLPDPARTKCQEVVGTFGPSLLDIFIHEVNPSSLCGVIGLCAARPELVEALEQPAPAIVSALLKEPTPPKQPAQPKQSALPAHVPPQKNGGFCEVCKKLVLYLEHNLEKNSTKEEILAALEKGCSFLPDPYQKQCDDFVAEYEPLLLEILVEVMDPGFVCSKIGVCPSAYKLLLGTEKCVWGPSYWCQNMETAARCNAVDHCKRHVWN |
| 2050 | sp|P31725|S10A9\_MOUSE | MANKAPSQMERSITTIIDTFHQYSRKEGHPDTLSKKEFRQMVEAQLATFMKKEKRNEALINDIMEDLDTNQDNQLSFEECMMLMAKLIFACHEKLHENNPRGHGHSHGKGCGK |
| 2051 | sp|Q09108|SCF\_CHICK | MKKAQTWIITCFCLQLLLLNPLVKAQSSCGNPVTDDVNDIAKLVGNLPNDYLITLKYVPKMDSLPNHCWLHLMVPEFSRSLHNLLQKFSDISDMSDVLSNYSIINNLTRIINDLMACLAFDKNKDFIKENGHLYEEDRFIPENFFRLFNSTIEVYKEFADSLDKNDCIMPSTVETPENDSRVAVTKTISFPPVAASSLRNDSIGSNTSSNSNKEALGFISSSSLQGISIALTSLLSLLIGFILGAIYWKKTHPKSRPESNETIQCHGCQEENEISMLQQKEKEHLQV |
| 2052 | sp|Q9JK11|RTN4\_RAT | MEDIDQSSLVSSSTDSPPRPPPAFKYQFVTEPEDEEDEEEEEDEEEDDEDLEELEVLERKPAAGLSAAAVPPAAAAPLLDFSSDSVPPAPRGPLPAAPPAAPERQPSWERSPAAPAPSLPPAAAVLPSKLPEDDEPPARPPPPPPAGASPLAEPAAPPSTPAAPKRRGSGSVDETLFALPAASEPVIPSSAEKIMDLMEQPGNTVSSGQEDFPSVLLETAASLPSLSPLSTVSFKEHGYLGNLSAVSSSEGTIEETLNEASKELPERATNPFVNRDLAEFSELEYSEMGSSFKGSPKGESAILVENTKEEVIVRSKDKEDLVCSAALHSPQESPVGKEDRVVSPEKTMDIFNEMQMSVVAPVREEYADFKPFEQAWEVKDTYEGSRDVLAARANVESKVDRKCLEDSLEQKSLGKDSEGRNEDASFPSTPEPVKDSSRAYITCASFTSATESTTANTFPLLEDHTSENKTDEKKIEERKAQIITEKTSPKTSNPFLVAVQDSEADYVTTDTLSKVTEAAVSNMPEGLTPDLVQEACESELNEATGTKIAYETKVDLVQTSEAIQESLYPTAQLCPSFEEAEATPSPVLPDIVMEAPLNSLLPSAGASVVQPSVSPLEAPPPVSYDSIKLEPENPPPYEEAMNVALKALGTKEGIKEPESFNAAVQETEAPYISIACDLIKETKLSTEPSPDFSNYSEIAKFEKSVPEHAELVEDSSPESEPVDLFSDDSIPEVPQTQEEAVMLMKESLTEVSETVAQHKEERLSASPQELGKPYLESFQPNLHSTKDAASNDIPTLTKKEKISLQMEEFNTAIYSNDDLLSSKEDKIKESETFSDSSPIEIIDEFPTFVSAKDDSPKLAKEYTDLEVSDKSEIANIQSGADSLPCLELPCDLSFKNIYPKDEVHVSDEFSENRSSVSKASISPSNVSALEPQTEMGSIVKSKSLTKEAEKKLPSDTEKEDRSLSAVLSAELSKTSVVDLLYWRDIKKTGVVFGASLFLLLSLTVFSIVSVTAYIALALLSVTISFRIYKGVIQAIQKSDEGHPFRAYLESEVAISEELVQKYSNSALGHVNSTIKELRRLFLVDDLVDSLKFAVLMWVFTYVGALFNGLTLLILALISLFSIPVIYERHQVQIDHYLGLANKSVKDAMAKIQAKIPGLKRKAD |
| 2053 | sp|Q6P549|SHIP2\_MOUSE | MASVCGTPSPGGALGSPAPAWYHRDLSRAAAEELLARAGRDGSFLVRDSESVAGAFALCVLYQKHVHTYRILPDGEDFLAVQTSQGVPVRRFQTLGELIGLYAQPNQGLVCALLLPVEGEREPDPPDDRDASDVEDEKPPLPPRSGSTSISAPVGPSSPLPTPETPTTPAAESTPNGLSTVSHEYLKGSYGLDLEAVRGGASNLPHLTRTLVTSCRRLHSEVDKVLSGLEILSKVFDQQSSPMVTRLLQQQSLPQTGEQELESLVLKLSVLKDFLSGIQKKALKALQDMSSTAPPAPLQPSIRKAKTIPVQAFEVKLDVTLGDLTKIGKSQKFTLSVDVEGGRLVLLRRQRDSQEDWTTFTHDRIRQLIKSQRVQNKLGVVFEKEKDRTQRKDFIFVSARKREAFCQLLQLMKNRHSKQDEPDMISVFIGTWNMGSVPPPKNVTSWFTSKGLGKALDEVTVTIPHDIYVFGTQENSVGDREWLDLLRGGLKELTDLDYRPIAMQSLWNIKVAVLVKPEHENRISHVSTSSVKTGIANTLGNKGAVGVSFMFNGTSFGFVNCHLTSGNEKTTRRNQNYLDILRLLSLGDRQLSAFDISLRFTHLFWFGDLNYRLDMDIQEILNYISRREFEPLLRVDQLNLEREKHKVFLRFSEEEISFPPTYRYERGSRDTYAWHKQKPTGVRTNVPSWCDRILWKSYPETHIICNSYGCTDDIVTSDHSPVFGTFEVGVTSQFISKKGLSKTSDQAYIEFESIEAIVKTASRTKFFIEFYSTCLEEYKKSFENDAQSSDNINFLKVQWSSRQLPTLKPILADIEYLQDQHLLLTVKSMDGYESYGECVVALKSMIGSTAQQFLTFLSHRGEETGNIRGSMKVRVPTERLGTRERLYEWISIDKDDTGAKSKVPSVSRGSQEHRSGSRKPASTETSCPLSKLFEEPEKPPPTGRPPAPPRAVPREEPLNPRLKSEGTSEQEGVAAPPPKNSFNNPAYYVLEGVPHQLLPLEPPSLARAPLPPATKNKVAITVPAPQLGRHRTPRVGEGSSSDEDSGGTLPPPDFPPPPLPDSAIFLPPNLDPLSMPVVRGRSGGEARGPPPPKAHPRPPLPPGTSPASTFLGEVASGDDRSCSVLQMAKTLSEVDYAPGPGRSALLPNPLELQPPRGPSDYGRPLSFPPPRIRESIQEDLAEEAPCPQGGRASGLGEAGMGAWLRAIGLERYEEGLVHNGWDDLEFLSDITEEDLEEAGVQDPAHKRLLLDTLQLSK |
| 2054 | sp|P48415|SEC16\_YEAST | MTPEAKKRKNQKKKLKQKQKKAAEKAASHSEEPLELPESTINSSFNDDSVNRTESDIASKSDVPPVSSSTNISPANETQLEIPDTQELHHKLLNDSDQHDITADSNDLPDNSIVEHDSVITQTKPAMSQEYEETAAHLSSRNPSLDVVAGELHNNNEHTQKIAVSAVEEDSFNEEEGENHDSIIISSLNDATPSQYNHFLPSDGNLLSPELSSGDTPTHNVPLGTKDNEINDDEYCNDKEISLNANNVLPDELSKEEDERLKLETHVSTEEKKQDIADQETAENLFTSSTEPSENKIRNSGDDTSMLFQDDESDQKVPWEEDVKKDFHNENTNNTQESAPNTDDRDKGYEGNEALKKSESCTAADERSYSEETSEDIFHGHDKQVVEGQNDFTGKNIENESQKLMGEGNHKLPLSAEADIIEPGKDIQDQAEDLFTQSSGDLGEVLPWESTDKNADVTSKSQEKHEDLFAASGNDEKLPWEVSDGEVSSGKTENSMQTSTEKIAEQKFSFLENDDDLLDDDDSFLASSEEEDTVPNTDNTTNLTSKPVEEKKASRYKPIIEEEAGMRQEQVHFTNTTGIVTPQQFHGLTKTGLGTPNQQVSVPNIVSPKPPVVKDNRSNFKINEEKKKSDAYDFPLEIISESSKKGHAKPVAVPTQRFGSGNSFSSLDKPIPQSRKGSNNSNRPPVIPLGTQEPRSSRTNSAISQSPVNYAFPNPYKIQQLQQAPIQSGMPLPNTNIPPPALKVETTVSAPPIRARGVSNASVGSSASFGARHATQYGLNNGVPPVSPYGQATINLPTANKYAPVSPTVQQKQYPSVVQNLGASAVNTPNFVKTHRGHTSSISSYTPNQNEHASRYAPNYQQSYQVPYTSQPVGPVAGNSSYQSQTRSSYAVPMMPQAQTSASIQPHANIQPPTGILPLAPLRPLDPLQAATNLQPRASNITAANSLPLANLPLAENILPEIITHRATSSVAPPRQENNPIKIDNEALLRRQFPIFHWSAANKVVYAVPPIPDQSQYMISSSIVQEIKVTPIDQIIKPNDMLKSFPGPLGSAKLKKKDLTKWMETTIKSISENESSTDMTIWQLLEMKLNDKVNWKNISKLLYNSDELLMYLSQPFPNGDMIPNAYRLDINCQMRVLAFLQTGNHDEALRLALSKRDYAIALLVGSLMGKDRWSEVIQKYLYEGFTAGPNDQKELAHFLLLIFQVFVGNSKMAIKSFYTNNETSQWASENWKSIVAAVLINIPENNEDPLLIPPVVLEFLIEFGIFLTKKGLTAAASTLFIIGNVPLSNEPVMADSDVIFESIGNMNTFESILWDEIYEYIFSYDPKFKGFSSILPQKIYHASLLQEQGLNSLGTKYTDYLSSSVRKLPKKDILTINLTRELSEVASRLSESNTGWLAKPKLSSVWGQLDKSFNKYIGGDDIDALNKKNDKKKVFDGFTPGSSANSSTVDLTQTFTPFQAQVTSQSYVDTTALLHNAHNVPSHSVLHSKPSNVSKGLVEANLPYTHRIGDSLQGSPQRIHNTQFAAAEPQMASLRRVRTDQHTNEKALKSQQILEKKSTAYTPQFGQNHSVPMEKSNSNVPSLFADFPAPPKLGTVPSNYVSSPDLVRRESIISTGSEFLPPPKIGVPTKANSSQGSLMYSPSVEALPIDPVVPQVHETGYNDFGNKHSQKSMPEDESHTSHDNSNADQNTLKDSADVTDETMDIEGPGFNDVKNLLPMEPNHQPTSTVNPIQTISDDIQPILQTNVEVRGTDASKMENSLPSIENERSSEEQPENISKSASSAYLPSTGGLSLENRPLTQDENSISETVQSTYLPAGSISMEAKPISQVQDVPRNVNNKASKLVEQHMAPPKPKSTDATKMNYSPYVPQSTAASADGDESTILKTSPAIYARTHQAHASNPSQYFPLVNQANETASFELSESTSQAQSNGNVASENRFSPIKKAEVVEKDTFQPTIRKASTNQYRAFKPLESDADKYNDVIEDESDDDNMSTDEAKNRKEEKKNVNMKKETKPSNKDIDDKSNGWFGWLKKDTGDKKVYKAKLGHKNTLYYDEKLKRWVNKDATEEEKQKIIESSAPPPPPIVKRKDGGPKTKPRSGPINNSLPPVHATSVIPNNPITGEPLPIKTSPSPTGPNPNNSPSPSSPISRISGVNLTSKKANGLDDLLSLAGGPKPASTRRKKKTARGYVNVMDNIQ |
| 2055 | sp|Q8VZU3|SCP19\_ARATH | MRNLSFIVLFLLTLFFIHHLVDASLLVKSLPGFEGPLPFELETGYVSIGESGDVELFYYFVKSERNPENDPLMIWLTGGPGCSSICGLLFANGPLAFKGDEYNGTVPPLELTSFSWTKVANILYLEAPAGSGYSYAKTRRAFESSDTKQMHQIDQFLRSWFVKHPEFISNPFYVGGDSYSGKIVPGAVQQISLGNEKGLTPLINIQGYVLGNPVTDKNIETNYRVPFAHGMGLISDELFESLERSCGGKFFNVDPSNARCSNNLQAYDHCMSEIYSEHILLRNCKVDYVLADTPNIRTDRRRVMKEFSVNDSSSLPPPSCFTYRYFLSAFWANDENVRRALGVKKEVGKWNRCNSQNIPYTFEIFNAVPYHVNNSLKGFRSLIYSGDHDSMVPFSSTQAWIRALNYSIVDDWRPWMMSSNQVAGYTRTYANKMTFATIKGGGHTAEYTPDQCSLMFRRWIDGEPL |
| 2056 | sp|O94993|SOX30\_HUMAN | MERARPEPPPQPRPLRPAPPPLPVEGTSFWAAAMEPPPSSPTLSAAASATLASSCGEAVASGLQPAVRRLLQVKPEQVLLLPQPQAQNEEAAASSAQARLLQFRPDLRLLQPPTASDGATSRPELHPVQPLALHVKAKKQKLGPSLDQSVGPRGAVETGPRASRVVKLEGPGPALGYFRGDEKGKLEAEEVMRDSMQGGAGKSPAAIREGVIKTEEPERLLEDCRLGAEPASNGLVHGSAEVILAPTSGAFGPHQQDLRIPLTLHTVPPGARIQFQGAPPSELIRLTKVPLTPVPTKMQSLLEPSVKIETKDVPLTVLPSDAGIPDTPFSKDRNGHVKRPMNAFMVWARIHRPALAKANPAANNAEISVQLGLEWNKLSEEQKKPYYDEAQKIKEKHREEFPGWVYQPRPGKRKRFPLSVSNVFSGTTQNIISTNPTTVYPYRSPTYSVVIPSLQNPITHPVGETSPAIQLPTPAVQSPSPVTLFQPSVSSAAQVAVQDPSLPVYPALPPQRFTGPSQTDTHQLHSEATHTVKQPTPVSLESANRISSSASTAHARFATSTIQPPREYSSVSPCPRSAPIPQASPIPHPHVYQPPPLGHPATLFGTPPRFSFHHPYFLPGPHYFPSSTCPYSRPPFGYGNFPSSMPECLSYYEDRYPKHEGIFSTLNRDYSFRDYSSECTHSENSRSCENMNGTSYYNSHSHSGEENLNPVPQLDIGTLENVFTAPTSTPSSIQQVNVTDSDEEEEEKVLRDL |
| 2057 | sp|Q18425|SPHK1\_CAEEL | MFIVVVTIFENYTQWYSSLLTIFSLTIKRKLKTIRSMQDSTSKCTCTEHHMGGTICCCCRSDAEENEQLTSVILSRKPPPQEQCRGNLLVFINPNSGTGKSLETFANTVGPKLDKSLIRYEVVVTTGPNHARNVLMTKADLGKFNGVLILSGDGLVFEALNGILCREDAFRIFPTLPIGIVPSGSGNGLLCSVLSKYGTKMNEKSVMERALEIATSPTAKAESVALYSVKTDNQSYASFLSIGWGLMADIDIDSEKWRKSLGHHRFTVMGFIRSCNLRSYKGRLTYRPYKPKGFHPSSNVFSVYEKTTQQRIDDSKVKTNGSVSDSEEETMETKFQNWTLPDSDETLAVGSSDLEETVVIEDNFVNIYAVTLSHIAADGPFAPSAKLEDNRIHLSYILWKDIGTRVNIAKYLLAIEHETHLDLPFVKHVEVSSMKLEVISEGSHVVLDGEVVDTKTIEVASTKNHISVFSSTA |
| 2058 | sp|Q93212|SOL1\_CAEEL | MCRRAEDLVLLLIPILFGYFSHASEHECKCVLFNVTSGNFHSPEFPAPLEGVPCLFYHFQAPPDHIIRLTFDVFQLPPRIGVCSSSIMLFDHSTDGLIEFGERADFEFCGKEISSGRQFFSKDQHFLLQISSGKESSRGFRGSFLAIPKKNFTSDAVEMAECSYRVEKQKAIIYSPDYPYYYPSKVNCTYHIPQRKGFQIVVNSIVMDIGRDAILQIFESVEGKFEKRLIEMVTSVQKSIYVSSTSSLLIYFSAGNNDVERAVGFVIELQYSNAVWSQSPETASECQLNINSENFKEGQLSSDKIGRFTSSSLPTKCQIVLQGYPNEKISVKFTHFNLYVPDNKNVTKRCTEVDNLSADVRVGSRLSRIDEWCGKRAPPNLMSSSNLLQLEYNTKSSKAIRESTNDDIGFRLDYKFHTDWNMGNMKAKVDKKKECRFSFNSSEHTNGKLWSANYPGLYPRNLYCEYIFHGRNDQVVHIHFEYFDIEGFNQCDETTQSDYILFSNYQTHDRTNRRFCGKTAPKGPILSESNYFRMIFSTNDIFDATGFYAHYQFITQEKSQISRVKLTISSSQTPFSSFFLVILLFTFRYIANIF |
| 2059 | sp|P41808|SMK1\_YEAST | MNCTLTDNTRAINVASNLGAPQQRTIFAKERISIPGYYEIIQFLGKGAYGTVCSVKFKGRSPAARIAVKKISNIFNKEILLKRAIRELKFMNFFKGHKNIVNLIDLEIVTSSPYDGLYCYQELIDYDLAKVIHSSVQLSEFHIKYFLYQILCGLKYIHSADVIHRDLKPGNILCTLNGCLKICDFGLARGIHAGFFKCHSTVQPHITNYVATRWYRAPELLLSNQPYSKSVDIWAVGCILAEFYARKPVFMGRDSMHQIFEIIKVLGTPDKDILIKFGTIKAWNLGKNSNNPVYKKIPWSNIFPFASHEAINLIESLLHWDSTHRLNVEQAISHPFLNEVRKPDDEPVCLQGPFDFTYESELNSMSKLRDYLVEEVKNFKTDLSSSSL |
| 2060 | sp|Q9WUD9|SRC\_RAT | MGSNKSKPKDASQRRRSLEPAENVHGAGGAFPASQTPSKPASADGHRGPNAAFVPPAAAEPKLFGGFNSSDTVTSPQRAGPLAGGVTTFVALYDYESRTETDLSFKKGERLQIVNNTEGDWWLAHSLSTGQTGYIPSNYVAPSDSIQAEEWYFGKITRRESERLLLNAENPRGTFLVRESETTKGAYCLSVSDFDNAKGLNVKHYKIRKLDSGGFYITSRTQFNSLQQLVAYYSKHADGLCHRLTTVCPTSKPQTQGLAKDAWEIPRESLRLEVKLGQGCFGEVWMGTWNGTTRVAIKTLKPGTMSPEAFLQEAQVMKKLRHEKLVQLYAVVSEEPIYIVTEYMNKGSLLDFLKGETGKYLRLPQLVDMSAQIASGMAYVERMNYVHRDLRAANILVGENLVCKVADFGLARLIEDNEYTARQGAKFPIKWTAPEAALYGRFTIKSDVWSFGILLTELTTKGRVPYPGMVNREVLDQVERGYRMPCPPECPESLHDLMCQCWRKEPEERPTFEYLQAFLEDYFTSTEPQYQPGENL |
| 2061 | sp|P38915|SPT8\_YEAST | MDEVDDILINNQVVDDEEDDEEMLSGLENDSKQDLEGNDDGGEDEEDDDDDDEDDDDDEDEREDDDEQEDDDGEDDAARMDKTATPTNEHQHDEQKAAAAGAGGAGDSGDAVTKIGSEDVKLSDVDGGVGSREASSSTHEASANGEVYEYYKHMLNAAQIADSYNIYPTAAIPIQTHVNALAVSRGLKYLFLGGSDGYIRKYDLLNTLEGKLSLTILQKHSLAESIQNAGILQSYWENEIPQKKSEMKLSANKTDYEPKVSPVHSLEVQSECLFILSGLQNGGITMQGVRYMEGSIAHYFKGRNGHTQIVNILRLNGQEDRFLSGSWDKRLLEWDLQTGDIVNEFKKSRSELSSLEMRPLYSSVDVSGNVNSGKENENADDDMDSLFGDEDEDEKQDAGNEPVETGDGSNGEENKEQISEESLNIVYDESVFMTSGLNGSVHIWDRRMTQSPALSLERGAGVPPWCLSACWGVDGDHVYAGRRNACVEQFDLKMPSKPIHNLKLPSISGPVSCVKAMPNNKHLLCASRDNIRLYNVEIAVDASNSTTKSSKVPFLIVPGHHGGIISNLYLDPTSRFIISTSGNRGWQGNSTDTTLIYDIDLE |
| 2062 | sp|Q9ET39|SLAF6\_MOUSE | MAVSRAPAPDSACQRMVWLFPLVFCLGSGSEVSQSSSDPQLMNGVLGESAVLPLKLPAGKIANIIIWNYEWEASQVTALVINLSNPESPQIMNTDVKKRLNITQSYSLQISNLTMADTGSYTAQITTKDSEVITFKYILRVFERLGNLETTNYTLLLENGTCQIHLACVLKNQSQTVSVEWQATGNISLGGPNVTIFWDPRNSGDQTYVCRAKNAVSNLSVSVSTQSLCKGVLTNPPWNAVWFMTTISIISAVILIFVCWSIHVWKRRGSLPLTSQHPESSQSTDGPGSPGNTVYAQVTRPMQEMKIPKPIKNDSMTIYSIVNHSREETVALTGYNQPITLKVNTLINYNS |
| 2063 | sp|Q7Z699|SPRE1\_HUMAN | MSEETATSDNDNSYARVRAVVMTRDDSSGGWLPLGGSGLSSVTVFKVPHQEENGCADFFIRGERLRDKMVVLECMLKKDLIYNKVTPTFHHWKIDDKKFGLTFQSPADARAFDRGIRRAIEDISQGCPESKNEAEGADDLQANEEDSSSSLVKDHLFQQETVVTSEPYRSSNIRPSPFEDLNARRVYMQSQANQITFGQPGLDIQSRSMEYVQRQISKECGSLKSQNRVPLKSIRHVSFQDEDEIVRINPRDILIRRYADYRHPDMWKNDLERDDADSSIQFSKPDSKKSDYLYSCGDETKLSSPKDSVVFKTQPSSLKIKKSKRRKEDGERSRCVYCQERFNHEENVRGKCQDAPDPIKRCIYQVSCMLCAESMLYHCMSDSEGDFSDPCSCDTSDDKFCLRWLALVALSFIVPCMCCYVPLRMCHRCGEACGCCGGKHKAAG |
| 2064 | sp|Q9VIQ0|SNPF\_DROME | MFHLKRELSQGCALALICLVSLQMQQPAQAEVSSAQGTPLSNLYDNLLQREYAGPVVFPNHQVERKAQRSPSLRLRFGRSDPDMLNSIVEKRWFGDVNQKPIRSPSLRLRFGRRDPSLPQMRRTAYDDLLERELTLNSQQQQQQLGTEPDSDLGADYDGLYERVVRKPQRLRWGRSVPQFEANNADNEQIERSQWYNSLLNSDKMRRMLVALQQQYEIPENVASYANDEDTDTDLNNDTSEFQREVRKPMRLRWGRSTGKAPSEQKHTPEETSSIPPKTQN |
| 2065 | sp|B7JBP8|SQRD\_ACIF2 | MAHVVILGAGTGGMPAAYEMKEALGSGHEVTLISANDYFQFVPSNPWVGVGWKERDDIAFPIRHYVERKGIHFIAQSAEQIDAEAQNITLADGNTVHYDYLMIATGPKLAFENVPGSDPHEGPVQSICTVDHAERAFAEYQALLREPGPIVIGAMAGASCFGPAYEYAMIVASDLKKRGMRDKIPSFTFITSEPYIGHLGIQGVGDSKGILTKGLKEEGIEAYTNCKVTKVEDNKMYVTQVDEKGETIKEMVLPVKFGMMIPAFKGVPAVAGVEGLCNPGGFVLVDEHQRSKKYANIFAAGIAIAIPPVETTPVPTGAPKTGYMIESMVSAAVHNIKADLEGRKGEQTMGTWNAVCFADMGDRGAAFIALPQLKPRKVDVFAYGRWVHLAKVAFEKYFIRKMKMGVSEPFYEKVLFKMMGITRLKEEDTHRKAS |
| 2066 | sp|P97443|SMYD1\_MOUSE | MTIGSMENVEVFTSEGKGRGLKATKEFWAADVIFAERAYSAVVFDSLINFVCHTCFKRQEKLHRCGQCKFAHYCDRTCQKDAWLNHKNECAAIKKYGKVPNENIRLAARIMWRVEREGTGLTEGCLVSVDDLQNHVEHFGEEEQKELRVDVDTFLQYWPPQSQQFSMQYISHIFGVINCNGFTLSDQRGLQAVGVGIFPNLGLVNHDCWPNCTVIFNNGNHEAVKSMFHTQMRIELRALGKISEGEELTVSYIDFLHLSEERRRQLKKQYYFDCSCEHCQKGLKDDLFLAAKEDPKPSQEVVKEMIQFSKDTLEKIDKARSEGLYHEVVKLCRECLEKQEPVFADTNLYVLRLLSIASEVLSYLQAYEEASHYARRMVDGYMKLYHHNNAQLGMAVMRAGLTNWHAGHIEVGHGMICKAYAILLVTHGPSHPITKDLEAMRMQTEMELRMFRQNEFMYHKMREAALNNQPMQVMAEPSNEPAPALFHKKQ |
| 2067 | sp|Q3TDQ1|STT3B\_MOUSE | MAEPSAPESKHKSSLNSSPWSGLMALGNSRHGHHGPGTQSASSAAAPKPGPPAGLSGGLSQPAGWQSLLSFTILFLAWLAGFSSRLFAVIRFESIIHEFDPWFNYRSTHHLASHGFYEFLNWFDERAWYPLGRIVGGTVYPGLMITAGLIHWILNTLNITVHIRDVCVFLAPTFSGLTSISTFLLTRELWNQGAGLLAACFIAIVPGYISRSVAGSFDNEGIAIFALQFTYYLWVKSVKTGSVFWTMCCCLSYFYMVSAWGGYVFIINLIPLHVFVLLLMQRYSKRVYIAYSTFYIVGLILSMQIPFVGFQPIRTSEHMAAAGVFALLQAYAFLQYLRDRLTKQEFQTLFFLGVSLAAGAVFLSVIYLTYTGYIAPWSGRFYSLWDTGYAKIHIPIIASVSEHQPTTWVSFFFDLHILVCTFPAGLWFCIKNINDERVFVALYAISAVYFAGVMVRLMLTLTPVVCMLSAIAFSNVFEHYLGDDMKRENPPVEDSSDEDDKRNPGNLYDKAGKVRKHVTEQEKPEEGLGPNIKSIVTMLMLMLLMMFAVHCTWVTSNAYSSPSVVLASYNHDGTRNILDDFREAYFWLRQNTDEHARVMSWWDYGYQIAGMANRTTLVDNNTWNNSHIALVGKAMSSNETAAYKIMRSLDVDYVLVIFGGVIGYSGDDINKFLWMVRIAEGEHPKDIREGDYFTQQGEFRVDKAGSPTLLNCLMYKMSYYRFGEMQLDFRTPPGFDRTRNAEIGNKDIKFKHLEEAFTSEHWLVRIYKVKAPDNRETLGHKPRVTNIVPKQKYLSKKTTKRKRGYVKNKLVFKKGKKTSKKTV |
| 2068 | sp|Q9M084|SYDC2\_ARATH | MSSESEIPPLSSSTAAAEESGEKTSKKAAKKEAAKLEKLRRRQEQEEATRRTASISLEENDEFSNNYGDVTLTELQSSADPKAGKWIEAVEGKEWTDVSDLVEEMLESEVLIRGRVHTNRPTSNKLGFVVLRESGSTVQCVVSQSEKTKVGANMVKYLKQLSRESFVDVIGVVTLPKEPLTGTTQQVEIQVRKVYCINKSLAKLPLSVEDAARSEADIEASLQTPSPAARVNQDTRLNYRVLDLRTPANQAIFQLQYEVEYAFREKLRFKNFVGIHTPKLMAGSSEGGSAVFRLEYKGQPACLAQSPQLHKQMAICGDLRRVFEVGPVFRAEDSFTHRHLCEFVGLDVEMEIRKHYSEIMDLVDELFVFIFTSLNERCKKELQAVGKQYPFEPLKFLPKTLRLTFEEGVQMLKEAGVEVDPLGDLNTESERKLGQLVLEKYNTEFYILHRYPKAVRPFYTMTCADNPLYSNSFDVFIRGEEIISGAQRVHIPEVLEQRAGECGIDVKTISTYIDSFRYGAPLHGGFGVGLERVVMLFCALNNIRKTSLFPRDPQRLSP |
| 2069 | sp|P70278|STRA8\_MOUSE | MATPGEGNQPSDDGAPQPLAQLQKLEPRVVRRRLSQARHRATLVGLFNNLRKAVYSQSDITASKWQVLNRTKIHIQEQEESLDKLLKLKASFNLQDGNPNSLEEVKEEYARMYSENDSVFLNSFLQDSPPEWFPSEAVGPDAEEEGEEEGEEEGEEGEEEEEGDEEGEEEEENGEEREVEEYQEEEEEEEEEEKKVDLSHSSSTLLPDLMEFERYLNFYKQTMDLLTMNSIISAHEVTLPIVSAAISHLWQTLSEEKKARLLQVWEQQHSAFADLTEACLELAGVEGSMKDSGVDSQGASCSLESTPEEILFEDAFDVASFLDKSEAQHMSNISAMFATCNSENPEEKFQLYIQIIEFFKSLGCVNTPLNQEPEPPDDDDAMLLKCLETFDDL |
| 2070 | sp|P32851|STX1A\_RAT | MKDRTQELRTAKDSDDDDDVTVTVDRDRFMDEFFEQVEEIRGFIDKIAENVEEVKRKHSAILASPNPDEKTKEELEELMSDIKKTANKVRSKLKSIEQSIEQEEGLNRSSADLRIRKTQHSTLSRKFVEVMSEYNATQSDYRERCKGRIQRQLEITGRTTTSEELEDMLESGNPAIFASGIIMDSSISKQALSEIETRHSEIIKLENSIRELHDMFMDMAMLVESQGEMIDRIEYNVEHAVDYVERAVSDTKKAVKYQSKARRKKIMIIICCVILGIIIASTIGGIFG |
| 2071 | sp|Q9U969|SWS\_DROME | MDVLEMLRASASGSYNTIFSDAWCQYVSKQITATVYMYFALVMMSLLFIAWFLYFKRMARLRLRDEIARSISTVTNSSGDMRGLRFRKRDKMLFYGRRMLRKMKNVSGQMYSSGKGYKRRAVMRFARRILQLRRDNMPLEMRTVEPPAEYLEETIEGSDRVPPDALYMLQSIRIFGHFEKPVFLRLCKHTQLLELMAGDYLFKITDPDDSVYIVQSGMINVYISNADGSTLSLKTVRKGESVTSLLSFIDVLSGNPSYYKTVTAKAIEKSVVIRLPMQAFEEVFQDNPDVMIRVIQVIMIRLQRVLFTALRNYLGLNAELVQNHMRYKSVSTMSGPINSQTSQSSRQAPNGPPMVISQMNLMQSAVSGTGSSGVSVTVTRPPSSPSRHSREEHTLSDPNPNPDGSFHGTTNLFTEVHGDAPNADLFHQQQQQHSVGNLSTRRSSITLMAPDGSHSCLQTPGVTTSIDMRLVQSSAVDSLRKELGLSEEDSHIIEPFVELRELEPNVTLITEGNADDVCVWFVMTGTLAVYQSNQDATRAKQDKSDMLIHFVHPGEIVGGLAMLTGEASAYTIRSRSITRIAFIRRAAIYQIMRQRPRIVLDLGNGVVRRLSPLVRQCDYALDWIFLESGRAVYRQDESSDSTYIVLSGRMRSVITHPGGKKEIVGEYGKGDLVGIVEMITETSRTTTVMAVRDSELAKLPEGLFNAIKLRYPIVVTKLISFLSHRFLGSMQTRSGSGAPGAPVEANPVTHKYSTVALVPITDEVPMTPFTYELYHSLCAIGPVLRLTSDVVRKQLGSNIFEAANEYRLTSWLAQQEDRNIITLYQCDSSLSAWTQRCMRQADVILIVGLGDRSHLVGKFEREIDRLAMRTQKELVLLYPEASNAKPANTLSWLNARPWVTKHHHVLCVKRIFTRKSQYRINDLYSRVLLSEPNMHSDFSRLARWLTGNSIGLVLGGGGARGAAHIGMLKAIQEAGIPVDMVGGVSIGALMGALWCSERNITTVTQKAREWSKKMTKWFLQLLDLTYPITSMFSGREFNKTIHDTFGDVSIEDLWIPYFTLTTDITASCHRIHTNGSLWRYVRSSMSLSGYMPPLCDPKDGHLLLDGGYVNNLPADVMHNLGAAHIIAIDVGSQDDTDLTNYGDDLSGWWLLYKKWNPFTSPVKVPDLPDIQSRLAYVSCVRQLEEVKNSDYCEYIRPPIDKYKTLAFGSFDEIRDVGYVFGKNYFESMAKAGRLGRFNQWFNKEPPKRVNHASLNEYTFIDLAQIVCRLPETYAVNTAELFSEDEDCDGYISEPTTLNTDRRRIQVSRAGNSLSFSETEMDSDVELDLKLERKTDKSTQSSPPSNSRSDMRGKEEARHMSNWHWGVKHKDETGSGATEATKTQTGQEQELQQEQQDQGATAEQLVDKDKEENKENRSSPNNETKN |
| 2072 | sp|P19339|SXL\_DROME | MYGNNNPGSNNNNGGYPPYGYNNKSSGGRGFGMSHSLPSGMSRYAFSPQDTEFSFPSSSSRRGYNDFPGCGGSGGNGGSANNLGGGNMCHLPPMASNNSLNNLCGLSLGSGGSDDLMNDPRASNTNLIVNYLPQDMTDRELYALFRAIGPINTCRIMRDYKTGYSFGYAFVDFTSEMDSQRAIKVLNGITVRNKRLKVSYARPGGESIKDTNLYVTNLPRTITDDQLDTIFGKYGSIVQKNILRDKLTGRPRGVAFVRYNKREEAQEAISALNNVIPEGGSQPLSVRLAEEHGKAKAAHFMSQMGVVPANVPPPPPQPPAHMAAAFNMMHRGRSIKSQQRFQNSHPYFDAKKFI |
| 2073 | sp|Q15833|STXB2\_HUMAN | MAPSGLKAVVGEKILSGVIRSVKKDGEWKVLIMDHPSMRILSSCCKMSDILAEGITIVEDINKRREPIPSLEAIYLLSPTEKSVQALIKDFQGTPTFTYKAAHIFFTDTCPEPLFSELGRSRLAKVVKTLKEIHLAFLPYEAQVFSLDAPHSTYNLYCPFRAEERTRQLEVLAQQIATLCATLQEYPAIRYRKGPEDTAQLAHAVLAKLNAFKADTPSLGEGPEKTRSQLLIMDRAADPVSPLLHELTFQAMAYDLLDIEQDTYRYETTGLSEAREKAVLLDEDDDLWVELRHMHIADVSKKVTELLRTFCESKRLTTDKANIKDLSQILKKMPQYQKELNKYSTHLHLADDCMKHFKGSVEKLCSVEQDLAMGSDAEGEKIKDSMKLIVPVLLDAAVPAYDKIRVLLLYILLRNGVSEENLAKLIQHANVQAHSSLIRNLEQLGGTVTNPGGSGTSSRLEPRERMEPTYQLSRWTPVIKDVMEDAVEDRLDRNLWPFVSDPAPTASSQAAVSARFGHWHKNKAGIEARAGPRLIVYVMGGVAMSEMRAAYEVTRATEGKWEVLIGSSHILTPTRFLDDLKALDKKLEDIALP |
| 2074 | sp|Q9UBI4|STML1\_HUMAN | MLGRSGYRALPLGDFDRFQQSSFGFLGSQKGCLSPERGGVGTGADVPQSWPSCLCHGLISFLGFLLLLVTFPISGWFALKIVPTYERMIVFRLGRIRTPQGPGMVLLLPFIDSFQRVDLRTRAFNVPPCKLASKDGAVLSVGADVQFRIWDPVLSVMTVKDLNTATRMTAQNAMTKALLKRPLREIQMEKLKISDQLLLEINDVTRAWGLEVDRVELAVEAVLQPPQDSPAGPNLDSTLQQLALHFLGGSMNSMAGGAPSPGPADTVEMVSEVEPPAPQVGARSSPKQPLAEGLLTALQPFLSEALVSQVGACYQFNVVLPSGTQSAYFLDLTTGRGRVGHGVPDGIPDVVVEMAEADLRALLCRELRPLGAYMSGRLKVKGDLAMAMKLEAVLRALK |
| 2075 | sp|O08721|UNC5A\_RAT | MAVRPGLWPVLLGIVLAAWLRGSGAQQSATVANPVPGANPDLLPHFLVEPEDVYIVKNKPVLLVCKAVPATQIFFKCNGEWVRQVDHVIERSTDSSSGLPTMEVRINVSRQQVEKVFGLEEYWCQCVAWSSSGTTKSQKAYIRIAYLRKNFEQEPLAKEVSLEQGIVLPCRPPEGIPPAEVEWLRNEDLVDPSLDPNVYITREHSLVVRQARLADTANYTCVAKNIVARRRSTSAAVIVYVNGGWSTWTEWSVCSASCGRGWQKRSRSCTNPAPLNGGAFCEGQNVQKTACATLCPVDGSWSSWSKWSACGLDCTHWRSRECSDPAPRNGGEECRGADLDTRNCTSDLCLHTASCPEDVALYIGLVAVAVCLFLLLLALGLIYCRKKEGLDSDVADSSILTSGFQPVSIKPSKADNPHLLTIQPDLSTTTTTYQGSLCSRQDGPSPKFQLSNGHLLSPLGSGRHTLHHSSPTSEAEDFVSRLSTQNYFRSLPRGTSNMAYGTFNFLGGRLMIPNTGISLLIPPDAIPRGKIYEIYLTLHKPEDVRLPLAGCQTLLSPVVSCGPPGVLLTRPVILAMDHCGEPSPDSWSLRLKKQSCEGSWEDVLHLGEESPSHLYYCQLEAGACYVFTEQLGRFALVGEALSVAATKRLRLLLFAPVACTSLEYNIRVYCLHDTHDALKEVVQLEKQLGGQLIQEPRVLHFKDSYHNLRLSIHDVPSSLWKSKLLVSYQEIPFYHIWNGTQQYLHCTFTLERINASTSDLACKVWVWQVEGDGQSFNINFNITKDTRFAELLALESEGGVPALVGPSAFKIPFLIRQKIIASLDPPCSRGADWRTLAQKLHLDSHLSFFASKPSPTAMILNLWEARHFPNGNLGQLAAAVAGLGQPDAGLFTVSEAEC |
| 2076 | sp|Q9BZV1|UBXN6\_HUMAN | MKKFFQEFKADIKFKSAGPGQKLKESVGEKAHKEKPNQPAPRPPRQGPTNEAQMAAAAALARLEQKQSRAWGPTSQDTIRNQVRKELQAEATVSGSPEAPGTNVVSEPREEGSAHLAVPGVYFTCPLTGATLRKDQRDACIKEAILLHFSTDPVAASIMKIYTFNKDQDRVKLGVDTIAKYLDNIHLHPEEEKYRKIKLQNKVFQERINCLEGTHEFFEAIGFQKVLLPAQDQEDPEEFYVLSETTLAQPQSLERHKEQLLAAEPVRAKLDRQRRVFQPSPLASQFELPGDFFNLTAEEIKREQRLRSEAVERLSVLRTKAMREKEEQRGLRKYNYTLLRVRLPDGCLLQGTFYARERLGAVYGFVREALQSDWLPFELLASGGQKLSEDENLALNECGLVPSALLTFSWDMAVLEDIKAAGAEPDSILKPELLSAIEKLL |
| 2077 | sp|O75691|UTP20\_HUMAN | MKTKPVSHKTENTYRFLTFAERLGNVNIDIIHRIDRTASYEEEVETYFFEGLLKWRELNLTEHFGKFYKEVIDKCQSFNQLVYHQNEIVQSLKTHLQVKNSFAYQPLLDLVVQLARDLQMDFYPHFPEFFLTITSILETQDTELLEWAFTSLSYLYKYLWRLMVKDMSSIYSMYSTLLAHKKLHIRNFAAESFTFLMRKVSDKNALFNLMFLDLDKHPEKVEGVGQLLFEMCKGVRNMFHSCTGQAVKLILRKLGPVTETETQLPWMLIGETLKNMVKSTVSYISKEHFGTFFECLQESLLDLHTKVTKTNCCESSEQIKRLLETYLILVKHGSGTKIPTPADVCKVLSQTLQVASLSTSCWETLLDVISALILGENVSLPETLIKETIEKIFESRFEKRLIFSFSEVMFAMKQFEQLFLPSFLSYIVNCFLIDDAVVKDEALAILAKLILNKAAPPTAGSMAIEKYPLVFSPQMVGFYIKQKKTRSKGRNEQFPVLDHLLSIIKLPPNKDTTYLSQSWAALVVLPHIRPLEKEKVIPLVTGFIEALFMTVDKGSFGKGNLFVLCQAVNTLLSLEESSELLHLVPVERVKNLVLTFPLEPSVLLLTDLYYQRLALCGCKGPLSQEALMELFPKLQANISTGVSKIRLLTIRILNHFDVQLPESMEDDGLSERQSVFAILRQAELVPATVNDYREKLLHLRKLRHDVVQTAVPDGPLQEVPLRYLLGMLYINFSALWDPVIELISSHAHEMENKQFWKVYYEHLEKAATHAEKELQNDMTDEKSVGDESWEQTQEGDVGALYHEQLALKTDCQERLDHTNFRFLLWRALTKFPERVEPRSRELSPLFLRFINNEYYPADLQVAPTQDLRRKGKGMVAEEIEEEPAAGDDEELEEEAVPQDESSQKKKTRRAAAKQLIAHLQVFSKFSNPRALYLESKLYELYLQLLLHQDQMVQKITLDCIMTYKHPHVLPYRENLQRLLEDRSFKEEIVHFSISEDNAVVKTAHRADLFPILMRILYGRMKNKTGSKTQGKSASGTRMAIVLRFLAGTQPEEIQIFLDLLFEPVRHFKNGECHSAVIQAVEDLDLSKVLPLGRQHGILNSLEIVLKNISHLISAYLPKILQILLCMTATVSHILDQREKIQLRFINPLKNLRRLGIKMVTDIFLDWESYQFRTEEIDAVFHGAVWPQISRLGSESQYSPTPLLKLISIWSRNARYFPLLAKQKPGHPECDILTNVFAILSAKNLSDATASIVMDIVDDLLNLPDFEPTETVLNLLVTGCVYPGIAENIGESITIGGRLILPHVPAILQYLSKTTISAEKVKKKKNRAQVSKELGILSKISKFMKDKEQSSVLITLLLPFLHRGNIAEDTEVDILVTVQNLLKHCVDPTSFLKPIAKLFSVIKNKLSRKLLCTVFETLSDFESGLKYITDVVKLNAFDQRHLDDINFDVRFETFQTITSYIKEMQIVDVNYLIPVMHNCFYNLELGDMSLSDNASMCLMSIIKKLAALNVTEKDYREIIHRSLLEKLRKGLKSQTESIQQDYTTILSCLIQTFPNQLEFKDLVQLTHYHDPEMDFFENMKHIQIHRRARALKKLAKQLMEGKVVLSSKSLQNYIMPYAMTPIFDEKMLKHENITTAATEIIGAICKHLSWSAYMYYLKHFIHVLQTGQINQKLGVSLLVIVLEAFHFDHKTLEEQMGKIENEENAIEAIELPEPEAMELERVDEEEKEYTCKSLSDNGQPGTPDPADSGGTSAKESECITKPVSFLPQNKEEIERTIKNIQGTITGDILPRLHKCLASTTKREEEHKLVKSKVVNDEEVVRVPLAFAMVKLMQSLPQEVMEANLPSILLKVCALLKNRAQEIRDIARSTLAKIIEDLGVHFLLYVLKELQTTLVRGYQVHVLTFTVHMLLQGLTNKLQVGDLDSCLDIMIEIFNHELFGAVAEEKEVKQILSKVMEARRSKSYDSYEILGKFVGKDQVTKLILPLKEILQNTTSLKLARKVHETLRRITVGLIVNQEMTAESILLLSYGLISENLPLLTEKEKNPVAPAPDPRLPPQSCLLLPPTPVRGGQKAVVSRKTNMHIFIESGLRLLHLSLKTSKIKSSGECVLEMLDPFVSLLIDCLGSMDVKVITGALQCLIWVLRFPLPSIETKAEQLTKHLFLLLKDYAKLGAARGQNFHLVVNCFKCVTILVKKVKSYQITEKQLQVLLAYAEEDIYDTSRQATAFGLLKAILSRKLLVPEIDEVMRKVSKLAVSAQSEPARVQCRQVFLKYILDYPLGDKLRPNLEFMLAQLNYEHETGRESTLEMIAYLFDTFPQGLLHENCGMFFIPLCLMTINDDSATCKKMASMTIKSLLGKISLEKKDWLFDMVTTWFGAKKRLNRQLAALICGLFVESEGVDFEKRLGTVLPVIEKEIDPENFKDIMEETEEKAADRLLFSFLTLITKLIKECNIIQFTKPAETLSKIWSHVHSHLRHPHNWVWLTAAQIFGLLFASCQPEELIQKWNTKKTKKHLPEPVAIKFLASDLDQKMKSISLASCHQLHSKFLDQSLGEQVVKNLLFAAKVLYLLELYCEDKQSKIKEDLEEQEALEDGVACADEKAESDGEEKEEVKEELGRPATLLWLIQKLSRIAKLEAAYSPRNPLKRTCIFKFLGAVAMDLGIDKVKPYLPMIIAPLFRELNSTYSEQDPLLKNLSQEIIELLKKLVGLESFSLAFASVQKQANEKRALRKKRKALEFVTNPDIAAKKKMKKHKNKSEAKKRKIEFLRPGYKAKRQKSHSLKDLAMVE |
| 2078 | sp|Q23064|UNC83\_CAEEL | MDVMDSFSEVEMPNDISSEDHLLKVIESSAEEVDIFLENCSSLYNLILDSLHNLTSKTISCECLDEMTSTLEKSAKKILAERPEAENSVLLRLNTICCAMDQLRVQHNSRMMSGADSDTASSARSSTSSSTGEMRLWLHEVERRLEINEKRIRVEPNLQLLLSDQQALQLEIQHEGQLLVNRLNKQIKDDHDSDSSEEEKRKTCVDAIRKRWHTIYLNSLSLVCRIEELINHQQASEDSESDPDLVGPPIKRARIRTVGHLTASDTEESEADEEDRHSQTETVVTEDDNVLPFAENEYESIMDGRVTVDSCTSSSEDQMVEQSTNKKWESVLQDVGYSSGENSIHEALNTCADHLVPETSDMRRKRIECSPVKAFYRTVQLEDMSDLEVTKAINHDVEEEPNLSDSMYVNHDSTFLATQNLPEYDEVMALMDDDDLPMDMSMTESFNTKWREIHGQKKPLRRASRPSREQMNLIAKSSCDASSEDSSEGENQTNLEDDPEMMSVSFNSAQFDTSSPLKRQRSARGLKNASFLYDSLEMDGSFCSTRSEMLPPCKTRSLARRKLRVRRMPRSMSDGEQLGVVSSKPEGMMTPMIRVSPPSTPVRRLLRKLDEQIRNRDSDTAPEHSDAAQAYEWDEYNPPQKDDSISDRHIQTMTDISDQLMNIDDDFAEHFGTSSAIRLIEESKSHLRVVLKALEESDSNIPQLSNFELIARSNLRQVDEALKIQSGNQPSFLETSTLQDLRSEWANLYESIRSPFARIMHQVKKFAATLQEVSSMASLGDVDIRSKEDVAKTLDAVTAIERRLSSERQELRDLLASSSFRDVAKDLSCEFESVSEGYDDAVDKIGKMAHSLSQVKGEWDAWNSRQNDIRNAMVRIESHLKEGQMDNKMIADEMELCQERMNSLETMCNYLTASLGSIQNESNSKNLPDFKAELSIYSNALARLKDRFNDMIRVPTPPTVQFHPPEPLPSLARSMTTQTAEMESETENEPLTIAEAISSSRLIKFTFALSLLAALAAIFYYHVFGKPFGPHVTYVNGPPPV |
| 2079 | sp|P61089|UBE2N\_MOUSE | MAGLPRRIIKETQRLLAEPVPGIKAEPDESNARYFHVVIAGPQDSPFEGGTFKLELFLPEEYPMAAPKVRFMTKIYHPNVDKLGRICLDILKDKWSPALQIRTVLLSIQALLSAPNPDDPLANDVAEQWKTNEAQAIETARAWTRLYAMNNI |
| 2080 | sp|O75445|USH2A\_HUMAN | MNCPVLSLGSGFLFQVIEMLIFAYFASISLTESRGLFPRLENVGAFKKVSIVPTQAVCGLPDRSTFCHSSAAAESIQFCTQRFCIQDCPYRSSHPTYTALFSAGLSSCITPDKNDLHPNAHSNSASFIFGNHKSCFSSPPSPKLMASFTLAVWLKPEQQGVMCVIEKTVDGQIVFKLTISEKETMFYYRTVNGLQPPIKVMTLGRILVKKWIHLSVQVHQTKISFFINGVEKDHTPFNARTLSGSITDFASGTVQIGQSLNGLEQFVGRMQDFRLYQVALTNREILEVFSGDLLRLHAQSHCRCPGSHPRVHPLAQRYCIPNDAGDTADNRVSRLNPEAHPLSFVNDNDVGTSWVSNVFTNITQLNQGVTISVDLENGQYQVFYIIIQFFSPQPTEIRIQRKKENSLDWEDWQYFARNCGAFGMKNNGDLEKPDSVNCLQLSNFTPYSRGNVTFSILTPGPNYRPGYNNFYNTPSLQEFVKATQIRFHFHGQYYTTETAVNLRHRYYAVDEITISGRCQCHGHADNCDTTSQPYRCLCSQESFTEGLHCDRCLPLYNDKPFRQGDQVYAFNCKPCQCNSHSKSCHYNISVDPFPFEHFRGGGGVCDDCEHNTTGRNCELCKDYFFRQVGADPSAIDVCKPCDCDTVGTRNGSILCDQIGGQCNCKRHVSGRQCNQCQNGFYNLQELDPDGCSPCNCNTSGTVDGDITCHQNSGQCKCKANVIGLRCDHCNFGFKFLRSFNDVGCEPCQCNLHGSVNKFCNPHSGQCECKKEAKGLQCDTCRENFYGLDVTNCKACDCDTAGSLPGTVCNAKTGQCICKPNVEGRQCNKCLEGNFYLRQNNSFLCLPCNCDKTGTINGSLLCNKSTGQCPCKLGVTGLRCNQCEPHRYNLTIDNFQHCQMCECDSLGTLPGTICDPISGQCLCVPNRQGRRCNQCQPGFYISPGNATGCLPCSCHTTGAVNHICNSLTGQCVCQDASIAGQRCDQCKDHYFGFDPQTGRCQPCNCHLSGALNETCHLVTGQCFCKQFVTGSKCDACVPSASHLDVNNLLGCSKTPFQQPPPRGQVQSSSAINLSWSPPDSPNAHWLTYSLLRDGFEIYTTEDQYPYSIQYFLDTDLLPYTKYSYYIETTNVHGSTRSVAVTYKTKPGVPEGNLTLSYIIPIGSDSVTLTWTTLSNQSGPIEKYILSCAPLAGGQPCVSYEGHETSATIWNLVPFAKYDFSVQACTSGGCLHSLPITVTTAQAPPQRLSPPKMQKISSTELHVEWSPPAELNGIIIRYELYMRRLRSTKETTSEESRVFQSSGWLSPHSFVESANENALKPPQTMTTITGLEPYTKYEFRVLAVNMAGSVSSAWVSERTGESAPVFMIPPSVFPLSSYSLNISWEKPADNVTRGKVVGYDINMLSEQSPQQSIPMAFSQLLHTAKSQELSYTVEGLKPYRIYEFTITLCNSVGCVTSASGAGQTLAAAPAQLRPPLVKGINSTTIHLRWFPPEELNGPSPIYQLERRESSLPALMTTMMKGIRFIGNGYCKFPSSTHPVNTDFTGIKASFRTKVPEGLIVFAASPGNQEEYFALQLKKGRLYFLFDPQGSPVEVTTTNDHGKQYSDGKWHEIIAIRHQAFGQITLDGIYTGSSAILNGSTVIGDNTGVFLGGLPRSYTILRKDPEIIQKGFVGCLKDVHFMKNYNPSAIWEPLDWQSSEEQINVYNSWEGCPASLNEGAQFLGAGFLELHPYMFHGGMNFEISFKFRTDQLNGLLLFVYNKDGPDFLAMELKSGILTFRLNTSLAFTQVDLLLGLSYCNGKWNKVIIKKEGSFISASVNGLMKHASESGDQPLVVNSPVYVGGIPQELLNSYQHLCLEQGFGGCMKDVKFTRGAVVNLASVSSGAVRVNLDGCLSTDSAVNCRGNDSILVYQGKEQSVYEGGLQPFTEYLYRVIASHEGGSVYSDWSRGRTTGAAPQSVPTPSRVRSLNGYSIEVTWDEPVVRGVIEKYILKAYSEDSTRPPRMPSASAEFVNTSNLTGILTGLLPFKNYAVTLTACTLAGCTESSHALNISTPQEAPQEVQPPVAKSLPSSLLLSWNPPKKANGIITQYCLYMDGRLIYSGSEENYIVTDLAVFTPHQFLLSACTHVGCTNSSWVLLYTAQLPPEHVDSPVLTVLDSRTIHIQWKQPRKISGILERYVLYMSNHTHDFTIWSVIYNSTELFQDHMLQYVLPGNKYLIKLGACTGGGCTVSEASEALTDEDIPEGVPAPKAHSYSPDSFNVSWTEPEYPNGVITSYGLYLDGILIHNSSELSYRAYGFAPWSLHSFRVQACTAKGCALGPLVENRTLEAPPEGTVNVFVKTQGSRKAHVRWEAPFRPNGLLTHSVLFTGIFYVDPVGNNYTLLNVTKVMYSGEETNLWVLIDGLVPFTNYTVQVNISNSQGSLITDPITIAMPPGAPDGVLPPRLSSATPTSLQVVWSTPARNNAPGSPRYQLQMRSGDSTHGFLELFSNPSASLSYEVSDLQPYTEYMFRLVASNGFGSAHSSWIPFMTAEDKPGPVVPPILLDVKSRMMLVTWQHPRKSNGVITHYNIYLHGRLYLRTPGNVTNCTVMHLHPYTAYKFQVEACTSKGCSLSPESQTVWTLPGAPEGIPSPELFSDTPTSVIISWQPPTHPNGLVENFTIERRVKGKEEVTTLVTLPRSHSMRFIDKTSALSPWTKYEYRVLMSTLHGGTNSSAWVEVTTRPSRPAGVQPPVVTVLEPDAVQVTWKPPLIQNGDILSYEIHMPDPHITLTNVTSAVLSQKVTHLIPFTNYSVTIVACSGGNGYLGGCTESLPTYVTTHPTVPQNVGPLSVIPLSESYVVISWQPPSKPNGPNLRYELLRRKIQQPLASNPPEDLNRWHNIYSGTQWLYEDKGLSRFTTYEYMLFVHNSVGFTPSREVTVTTLAGLPERGANLTASVLNHTAIDVRWAKPTVQDLQGEVEYYTLFWSSATSNDSLKILPDVNSHVIGHLKPNTEYWIFISVFNGVHSINSAGLHATTCDGEPQGMLPPEVVIINSTAVRVIWTSPSNPNGVVTEYSIYVNNKLYKTGMNVPGSFILRDLSPFTIYDIQVEVCTIYACVKSNGTQITTVEDTPSDIPTPTIRGITSRSLQIDWVSPRKPNGIILGYDLLWKTWYPCAKTQKLVQDQSDELCKAVRCQKPESICGHICYSSEAKVCCNGVLYNPKPGHRCCEEKYIPFVLNSTGVCCGGRIQEAQPNHQCCSGYYARILPGEVCCPDEQHNRVSVGIGDSCCGRMPYSTSGNQICCAGRLHDGHGQKCCGRQIVSNDLECCGGEEGVVYNRLPGMFCCGQDYVNMSDTICCSASSGESKAHIKKNDPVPVKCCETELIPKSQKCCNGVGYNPLKYVCSDKISTGMMMKETKECRILCPASMEATEHCGRCDFNFTSHICTVIRGSHNSTGKASIEEMCSSAEETIHTGSVNTYSYTDVNLKPYMTYEYRISAWNSYGRGLSKAVRARTKEDVPQGVSPPTWTKIDNLEDTIVLNWRKPIQSNGPIIYYILLRNGIERFRGTSLSFSDKEGIQPFQEYSYQLKACTVAGCATSSKVVAATTQGVPESILPPSITALSAVALHLSWSVPEKSNGVIKEYQIRQVGKGLIHTDTTDRRQHTVTGLQPYTNYSFTLTACTSAGCTSSEPFLGQTLQAAPEGVWVTPRHIIINSTTVELYWSLPEKPNGLVSQYQLSRNGNLLFLGGSEEQNFTDKNLEPNSRYTYKLEVKTGGGSSASDDYIVQTPMSTPEEIYPPYNITVIGPYSIFVAWIPPGILIPEIPVEYNVLLNDGSVTPLAFSVGHHQSTLLENLTPFTQYEIRIQACQNGSCGVSSRMFVKTPEAAPMDLNSPVLKALGSACIEIKWMPPEKPNGIIINYFIYRRPAGIEEESVLFVWSEGALEFMDEGDTLRPFTLYEYRVRACNSKGSVESLWSLTQTLEAPPQDFPAPWAQATSAHSVLLNWTKPESPNGIISHYRVVYQERPDDPTFNSPTVHAFTVKGTSHQAHLYGLEPFTTYRIGVVAANHAGEILSPWTLIQTLESSPSGLRNFIVEQKENGRALLLQWSEPMRTNGVIKTYNIFSDGFLEYSGLNRQFLFRRLDPFTLYTLTLEACTRAGCAHSAPQPLWTDEAPPDSQLAPTVHSVKSTSVELSWSEPVNPNGKIIRYEVIRRCFEGKAWGNQTIQADEKIVFTEYNTERNTFMYNDTGLQPWTQCEYKIYTWNSAGHTCSSWNVVRTLQAPPEGLSPPVISYVSMNPQKLLISWIPPEQSNGIIQSYRLQRNEMLYPFSFDPVTFNYTDEELLPFSTYSYALQACTSGGCSTSKPTSITTLEAAPSEVSPPDLWAVSATQMNVCWSPPTVQNGKITKYLVRYDNKESLAGQGLCLLVSHLQPYSQYNFSLVACTNGGCTASVSKSAWTMEALPENMDSPTLQVTGSESIEITWKPPRNPNGQIRSYELRRDGTIVYTGLETRYRDFTLTPGVEYSYTVTASNSQGGILSPLVKDRTSPSAPSGMEPPKLQARGPQEILVNWDPPVRTNGDIINYTLFIRELFERETKIIHINTTHNSFGMQSYIVNQLKPFHRYEIRIQACTTLGCASSDWTFIQTPEIAPLMQPPPHLEVQMAPGGFQPTVSLLWTGPLQPNGKVLYYELYRRQIATQPRKSNPVLIYNGSSTSFIDSELLPFTEYEYQVWAVNSAGKAPSSWTWCRTGPAPPEGLRAPTFHVISSTQAVVNISAPGKPNGIVSLYRLFSSSAHGAETVLSEGMATQQTLHGLQAFTNYSIGVEACTCFNCCSKGPTAELRTHPAPPSGLSSPQIGTLASRTASFRWSPPMFPNGVIHSYELQFHVACPPDSALPCTPSQIETKYTGLGQKASLGGLQPYTTYKLRVVAHNEVGSTASEWISFTTQKELPQYRAPFSVDSNLSVVCVNWSDTFLLNGQLKEYVLTDGGRRVYSGLDTTLYIPRTADKTFFFQVICTTDEGSVKTPLIQYDTSTGLGLVLTTPGKKKGSRSKSTEFYSELWFIVLMAMLGLILLAIFLSLILQRKIHKEPYIRERPPLVPLQKRMSPLNVYPPGENHMGLADTKIPRSGTPVSIRSNRSACVLRIPSQNQTSLTYSQGSLHRSVSQLMDIQDKKVLMDNSLWEAIMGHNSGLYVDEEDLMNAIKDFSSVTKERTTFTDTHL |
| 2081 | sp|Q9H7M9|VISTA\_HUMAN | MGVPTALEAGSWRWGSLLFALFLAASLGPVAAFKVATPYSLYVCPEGQNVTLTCRLLGPVDKGHDVTFYKTWYRSSRGEVQTCSERRPIRNLTFQDLHLHHGGHQAANTSHDLAQRHGLESASDHHGNFSITMRNLTLLDSGLYCCLVVEIRHHHSEHRVHGAMELQVQTGKDAPSNCVVYPSSSQDSENITAAALATGACIVGILCLPLILLLVYKQRQAASNRRAQELVRMDSNIQGIENPGFEASPPAQGIPEAKVRHPLSYVAQRQPSESGRHLLSEPSTPLSPPGPGDVFFPSLDPVPDSPNFEVI |
| 2082 | sp|O08775|VGFR2\_RAT | MESRALLAVALWFCVETRAASVGLPGDSLHPPKLSTQKDILTILANTTLQITCRGQRDLDWLWPNTPRDSEERVLVTECGDSIFCKTLTVPRVVGNDTGAYKCFYRDTDVSSIVYVYVQDHRSPFIASVSDEHGIVYITENKNKTVVIPCRGSISNLNVSLCARYPEKRFVPDGNRISWDSEKGFTIPSYMISYAGMVFCEAKINDETYQSIMYIVLVVGYRIYDVVLSPPHEIELSAGEKLVLNCTARTELNVGLDFSWQFPSSKHQHKKIVNRDVKSLPGTVAKMFLSTLTIDSVTKSDQGEYTCTAYSGLMTKKNKTFVRVHTKPFIAFGSGMKSLVEATVGSQVRIPVKYLSYPAPDIKWYRNGRPIESNYTMIVGDELTIMEVSERDAGNYTVILTNPISMEKQSHMVSLVVNVPPQIGEKALISPMDSYQYGTMQTLTCTVYANPPLHHIQWYWQLEEACSYRPSQTNPYTCKEWRHVKDFQGGNKIEVTKNQYALIEGKNKTVSTLVIQAAYVSALYKCEAINKAGRGERVISFHVIRGPEITVQPATQPTERESMSLLCTADRNTFENLTWYKLGSQATSVHMGESLTPVCKNLDALWKLNGTVFSNSTNDILIVAFQNASLQDQGNYVCSAQDKKTKKRHCLVKQLVILERMAPMITGNLENQTTTIGETIEVVCPTSGNPTPLITWFKDNETLVEDSGIVLKDGNRNLTIRRVRKEDGGLYTCQACNVLGCARAETLFIIEGVQEKTNLEVIILVGTAVIAMFFWLLLVILVRTVKRANEGELKTGYLSIVMDPDELPLDERCERLPYDASKWEFPRDRLKLGKPLGRGAFGQVIEADAFGIDKTATCKTVAVKMLKEGATHSEHRALMSELKILIHIGHHLNVVNLLGACTKPGGPLMVIVEFCKFGNLSTYLRGKRNEFVPYKSKGARFRSGKDYVGELSVDLKRRLDSITSSQSSASSGFVEEKSLSDVEEEEASEELYKDFLTLEHLICYSFQVAKGMEFLASRKCIHRDLAARNILLSEKNVVKICDFGLARDIYKDPDYVRKGDPRLPLKWMAPETIFDRIYTIQSGVWSFGVLLWEIFSLGASPYPGVKIDEKFCRRLKEGTRMRAPDYTTPEMYQTMLDCWHEDPNQRPAFSELVEHLGNLLQANAQQDGKDYIVLPMSETLSMEEDSGLSLPTSPVSCMEEEEVCDPKFHYDNTAGISHYLQNSKRKSRPVSVKTFEDIPLEEPEVKVIPDDSQTDSGMVLASEELKTLEDRNKLSPSFGGMMPSKSRESVASEGSNQTSGYQSGYHSDDTDTTVYSSDEAGLLKLVDVAGHVDSGTTLRSSPV |
| 2083 | sp|P46467|VPS4B\_MOUSE | MASTNTNLQKAIDLASKAAQEDKAGNYEEALQLYQHAVQYFLHVVKYEAQGDKAKQSIRAKCTEYLDRAEKLKEYLKKKEKKPQKPVKEEQSGPVDEKGNDSDGEAESDDPEKKKLQNQLQGAIVIERPNVKWSDVAGLEGAKEALKEAVILPIKFPHLFTGKRTPWRGILLFGPPGTGKSYLAKAVATEANNSTFFSISSSDLVSKWLGESEKLVKNLFQLARENKPSIIFIDEIDSLCGSRSENESEAARRIKTEFLVQMQGVGVDNDGILVLGATNIPWVLDSAIRRRFEKRIYIPLPEAHARAAMFRLHLGSTQNSLTEADFQELGRKTDGYSGADISIIVRDALMQPVRKVQSATHFKKVRGPSRADPNCIVNDLLTPCSPGDPGAIEMTWMDVPGDKLLEPVVSMWDMLRSLSSTKPTVNEQDLLKLKKFTEDFGQEG |
| 2084 | sp|Q9P275|UBP36\_HUMAN | MPIVDKLKEALKPGRKDSADDGELGKLLASSAKKVLLQKIEFEPASKSFSYQLEALKSKYVLLNPKTEGASRHKSGDDPPARRQGSEHTYESCGDGVPAPQKVLFPTERLSLRWERVFRVGAGLHNLGNTCFLNATIQCLTYTPPLANYLLSKEHARSCHQGSFCMLCVMQNHIVQAFANSGNAIKPVSFIRDLKKIARHFRFGNQEDAHEFLRYTIDAMQKACLNGCAKLDRQTQATTLVHQIFGGYLRSRVKCSVCKSVSDTYDPYLDVALEIRQAANIVRALELFVKADVLSGENAYMCAKCKKKVPASKRFTIHRTSNVLTLSLKRFANFSGGKITKDVGYPEFLNIRPYMSQNNGDPVMYGLYAVLVHSGYSCHAGHYYCYVKASNGQWYQMNDSLVHSSNVKVVLNQQAYVLFYLRIPGSKKSPEGLISRTGSSSLPGRPSVIPDHSKKNIGNGIISSPLTGKRQDSGTMKKPHTTEEIGVPISRNGSTLGLKSQNGCIPPKLPSGSPSPKLSQTPTHMPTILDDPGKKVKKPAPPQHFSPRTAQGLPGTSNSNSSRSGSQRQGSWDSRDVVLSTSPKLLATATANGHGLKGNDESAGLDRRGSSSSSPEHSASSDSTKAPQTPRSGAAHLCDSQETNCSTAGHSKTPPSGADSKTVKLKSPVLSNTTTEPASTMSPPPAKKLALSAKKASTLWRATGNDLRPPPPSPSSDLTHPMKTSHPVVASTWPVHRARAVSPAPQSSSRLQPPFSPHPTLLSSTPKPPGTSEPRSCSSISTALPQVNEDLVSLPHQLPEASEPPQSPSEKRKKTFVGEPQRLGSETRLPQHIREATAAPHGKRKRKKKKRPEDTAASALQEGQTQRQPGSPMYRREGQAQLPAVRRQEDGTQPQVNGQQVGCVTDGHHASSRKRRRKGAEGLGEEGGLHQDPLRHSCSPMGDGDPEAMEESPRKKKKKKRKQETQRAVEEDGHLKCPRSAKPQDAVVPESSSCAPSANGWCPGDRMGLSQAPPVSWNGERESDVVQELLKYSSDKAYGRKVLTWDGKMSAVSQDAIEDSRQARTETVVDDWDEEFDRGKEKKIKKFKREKRRNFNAFQKLQTRRNFWSVTHPAKAASLSYRR |
| 2085 | sp|O13821|VPS27\_SCHPO | MSRWWNSNSQFASDIEKATSETLPAGSEEISLYLEISDQIRSKSVDPKFAMRILKSRIDHSNPNVQIMALKLTDTCVKNGGSGFLLEIASREFMDNLVSILRSPAGIDEDVKMVILRYIQSWALAVPDTNSPLSYIIHVYQNLKDGDYEFPEPSQNITSKFLDTETPPDWTDSEVCLRCRTPFTFTNRKHHCRNCGGVFCNQCSSKTLSLPHLGINQPVRVCDSCYSLRTKPKGSKSRARNERKFHAKTRKTPSKPVTNNEDEDIKRAIELSLKEMPQSREPPSYERPSEANVVISQDQHLTEDEDEELKRAIAISLEEAQKSSQKDDNVTAPNNMNISYPSVPAHTVSTDIRSSPFSGRPSDNPSTLISTADADNITLYATLVQKLKKLPPGSIFTEYQLQELHENMGVMRTRMMRSLGETMSKYNGLIQALQKLQTCMRLNDALIEQRLSSTYAHHYIDSSMDSNRSIEPEPDVISTVRNSSTIPQASSSSVPKIVVDSSPVTENPPSHSDVMGQKDTISSYYSTDTDVSANVMGNRHDEVVFSDTASGEKNTKLNIDESTNYYNTDSIDKVGEPFDEISSGYDDLMNGNDKQGNDIPEVQEASLIEL |
| 2086 | sp|P21576|VPS1\_YEAST | MDEHLISTINKLQDALAPLGGGSQSPIDLPQITVVGSQSSGKSSVLENIVGRDFLPRGTGIVTRRPLVLQLINRRPKKSEHAKVNQTANELIDLNINDDDKKKDESGKHQNEGQSEDNKEEWGEFLHLPGKKFYNFDEIRKEIVKETDKVTGANSGISSVPINLRIYSPHVLTLTLVDLPGLTKVPVGDQPPDIERQIKDMLLKYISKPNAIILSVNAANTDLANSDGLKLAREVDPEGTRTIGVLTKVDLMDQGTDVIDILAGRVIPLRYGYIPVINRGQKDIEHKKTIREALENERKFFENHPSYSSKAHYCGTPYLAKKLNSILLHHIRQTLPEIKAKIEATLKKYQNELINLGPETMDSASSVVLSMITDFSNEYAGILDGEAKELSSQELSGGARISYVFHETFKNGVDSLDPFDQIKDSDIRTIMYNSSGSAPSLFVGTEAFEVLVKQQIRRFEEPSLRLVTLVFDELVRMLKQIISQPKYSRYPALREAISNQFIQFLKDATIPTNEFVVDIIKAEQTYINTAHPDLLKGSQAMVMVEEKLHPRQVAVDPKTGKPLPTQPSSSKAPVMEEKSGFFGGFFSTKNKKKLAALESPPPVLKATGQMTERETMETEVIKLLISSYFSIVKRTIADIIPKALMLKLIVKSKTDIQKVLLEKLYGKQDIEELTKENDITIQRRKECKKMVEILRNASQIVSSV |
| 2087 | sp|A5D8V6|VP37C\_HUMAN | METLKDKTLQELEELQNDSEAIDQLALESPEVQDLQLEREMALATNRSLAERNLEFQGPLEISRSNLSDRYQELRKLVERCQEQKAKLEKFSSALQPGTLLDLLQVEGMKIEEESEAMAEKFLEGEVPLETFLENFSSMRMLSHLRRVRVEKLQEVVRKPRASQELAGDAPPPRPPPPVRPVPQGTPPVVEEQPQPPLAMPPYPLPYSPSPSLPVGPTAHGALPPAPFPVVSQPSFYSGPLGPTYPAAQLGPRGAAGYSWSPQRSMPPRPGYPGTPMGASGPGYPLRGGRAPSPGYPQQSPYPATGGKPPYPIQPQLPSFPGQPQPSVPLQPPYPPGPAPPYGFPPPPGPAWPGY |
| 2088 | sp|Q9CRC0|VKOR1\_MOUSE | MGTTWRSPGLVRLALCLAGLALSLYALHVKAARARDENYRALCDVGTAISCSRVFSSRWGRGFGLVEHMLGADSVLNQSNSIFGCLFYTLQLLLGCLRGRWASILLVLSSLVSVAGSVYLAWILFFVLYDFCIVCITTYAINVGLMLLSFQKVPEHKTKKH |
| 2089 | sp|Q2NKI2|VAX1\_MOUSE | MFGKPDKMDVRCHSDTEAARVSKNAHKESREIKGAEGSLPAAFLKEPQGAFSGSGASEDCNKSKSNSSADPDYCRRILVRDAKGSIREIILPKGLDLDRPKRTRTSFTAEQLYRLEMEFQRCQYVVGRERTELARQLNLSETQVKVWFQNRRTKQKKDQGKDSELRSVVSETAATCSVLRLLEQGRLLSPPGLPALLPPCATGALGSALRGPSLPALGAGAAAGSAAAAAAAAAATAPGPAGAASQHQPAVGGAPGPGPAGPGGLHAGAPTASHGLFSLPVPSLLGSVASRLSSAPLTMAGSLAGNLQELSARYLSSSAFEPYSRTNNKEGAEKKALD |
| 2090 | sp|Q9H9H4|VP37B\_HUMAN | MAGAGSEARFAGLSLVQLNELLEDEGQLTEMVQKMEETQNVQLNKEMTLASNRSLAEGNLLYQPQLDTLKARLTQKYQELQVLFEAYQIKKTKLDRQSSSASLETLLALLQAEGAKIEEDTENMAEKFLDGELPLDSFIDVYQSKRKLAHMRRVKIEKLQEMVLKGQRLPQALAPLPPRLPELAPTAPLPYPAPEASGPPAVAPRRIPPPPPPVPAGRLATPFTAAMSSGQAVPYPGLQCPPLPPRVGLPTQQGFSSQFVSPYPPPLPQRPPPRLPPHQPGFILQ |
| 2091 | sp|Q9D2N9|VP33A\_MOUSE | MAAHLSYGRVNLNVLREAVRRELREFLDKCAGSKAIVWDEYLTGPFGLIAQYSLLKEHEVEKMFTLKGSRLPAADVKNIIFLVRPRLELMDIIAENVLSEDRRGPTRDFHILFVPRRSLLCEQRLKDLGVLGSFIHREEYSLDLIPFDGDLLSMESEGAFKECYLEGDQTSLYHAAKGLMTLQALYGTIPQIFGKGECARQVANMMVRMKREFTGSQNSVFPVFDNLLLLDRNVDLLTPLASQLTYEGLIDEIYGIQNSYVKLPPEKFAPKKQGGGSGGKDLPTEAKKLQLNSAEELYAEIRDKNFNAVGSVLSKKAKIISAAFEERHNAKTVGEIKQFVSQLPHMQAARGSLANHTSIAELIKDVTTSEDFFDKLTVEQEFMSGIDTDKVNSYIEDCIAQKHPLIKVLRLVCLQSVCNSGLKQKVLDYYRREILQTYGYEHILTLNNLEKAGLLKAQTGGRNNYPTIRKTLRLWMDDVNEQNPTDISYVYSGYAPLSVRLAQLLSRPGWRSIEEVLRILPGPHFEERQPLPTGLQKKRQPGENRVTLVFFLGGVTFAEIAALRFLSQLEDGGTEYVIATTKLMNGNSWIEALMEKPF |
| 2092 | sp|Q05128|VP40\_EBOZM | MRRVILPTAPPEYMEAIYPVRSNSTIARGGNSNTGFLTPESVNGDTPSNPLRPIADDTIDHASHTPGSVSSAFILEAMVNVISGPKVLMKQIPIWLPLGVADQKTYSFDSTTAAIMLASYTITHFGKATNPLVRVNRLGPGIPDHPLRLLRIGNQAFLQEFVLPPVQLPQYFTFDLTALKLITQPLPAATWTDDTPTGSNGALRPGISFHPKLRPILLPNKSGKKGNSADLTSPEKIQAIMTSLQDFKIVPIDPTKNIMGIEVPETLVHKLTGKKVTSKNGQPIIPVLLPKYIGLDPVAPGDLTMVITQDCDTCHSPASLPAVIEK |
| 2093 | sp|P17255|VATA\_YEAST | MAGAIENARKEIKRISLEDHAESEYGAIYSVSGPVVIAENMIGCAMYELVKVGHDNLVGEVIRIDGDKATIQVYEETAGLTVGDPVLRTGKPLSVELGPGLMETIYDGIQRPLKAIKEESQSIYIPRGIDTPALDRTIKWQFTPGKFQVGDHISGGDIYGSVFENSLISSHKILLPPRSRGTITWIAPAGEYTLDEKILEVEFDGKKSDFTLYHTWPVRVPRPVTEKLSADYPLLTGQRVLDALFPCVQGGTTCIPGAFGCGKTVISQSLSKYSNSDAIIYVGCFAKGTNVLMADGSIECIENIEVGNKVMGKDGRPREVIKLPRGRETMYSVVQKSQHRAHKSDSSREVPELLKFTCNATHELVVRTPRSVRRLSRTIKGVEYFEVITFEMGQKKAPDGRIVELVKEVSKSYPISEGPERANELVESYRKASNKAYFEWTIEARDLSLLGSHVRKATYQTYAPILYENDHFFDYMQKSKFHLTIEGPKVLAYLLGLWIGDGLSDRATFSVDSRDTSLMERVTEYAEKLNLCAEYKDRKEPQVAKTVNLYSKVVRGNGIRNNLNTENPLWDAIVGLGFLKDGVKNIPSFLSTDNIGTRETFLAGLIDSDGYVTDEHGIKATIKTIHTSVRDGLVSLARSLGLVVSVNAEPAKVDMNGTKHKISYAIYMSGGDVLLNVLSKCAGSKKFRPAPAAAFARECRGFYFELQELKEDDYYGITLSDDSDHQFLLANQVVVHNCGERGNEMAEVLMEFPELYTEMSGTKEPIMKRTTLVANTSNMPVAAREASIYTGITLAEYFRDQGKNVSMIADSSSRWAEALREISGRLGEMPADQGFPAYLGAKLASFYERAGKAVALGSPDRTGSVSIVAAVSPAGGDFSDPVTTATLGITQVFWGLDKKLAQRKHFPSINTSVSYSKYTNVLNKFYDSNYPEFPVLRDRMKEILSNAEELEQVVQLVGKSALSDSDKITLDVATLIKEDFLQQNGYSTYDAFCPIWKTFDMMRAFISYHDEAQKAVANGANWSKLADSTGDVKHAVSSSKFFEPSRGEKEVHGEFEKLLSTMQERFAESTD |
| 2094 | sp|C8VTV4|VEA\_EMENI | MATLAAPPPPLGESGNSNSVSRITREGKKITYKLNIMQQPKRARACGQGSKSHTDRRPVDPPPVIELNIFESDPHDDSNKTDITFVYNANFFLFATLEPERPIATGKLMTNQGSPVLTGVPVAGVAYLDKPNRAGYFIFPDLSVRNEGSYRFSFHLFEQIKDPKDATEGTQPMPSPVPGKLSSPQEFLEFRLEVISNPFIVYSAKKFPGLTTSTPISRMIAEQGCRVRIRRDVRMRRRGDKRTEDYDYDNERGYNNRRPDQYAGSDAYANAPERPRSTSISTNMDPYSYPSRRPSAVEYGQPIAQPYQRPMASTPAPSSTPIPAPIPMPGPVALPPSTPSPASAHAPAPPSVPLAAPPPLHTPSYQSHLSFGATQTQYPAPQLSHIPQQTTTPTHPYSPRSSISHSRNQSISEYEPSMGYPGSQTRLSAERPSYGQPSQTTSLPPLRHSLEPSVNSRSKTPSNMITSLPPIQSLSELPSTTSQPSSAIGSSPANEPGPRLWETNSMLSKRTYEESFGHDDRPLYNGMRPDSESYPGGMQRRPSYERSSLLDGPDQMAYKRANGRMVSKPATMR |
| 2095 | sp|E6Z0R3|VBHT\_BARSR | MRKYEGSNDPYTDPETGVMYNLLGIKDQARLERVESAFAYIRSFELGRTSISGKFDLDHMKKIHKKLFGDVYEWAGKTRLVDIVKDNSKFAHYTQIESYAPQITQQLAREQHLRGLDANEFSQRAGYYMGELNALHPFREGNGRTLREFIWQLAREAGYHIDWDRVERQEMTRASIESYYGNSDLMSALIRRNLTEFTVNRRVDVSQGINERVLSHIDIDKEWPQKGFNIAIQTTQQAPYLSSYTDTSNLEEKAQNALRNEQSYVDTFKELNDHLKTIYKDPQAAALKIEQTILAGKGDKLPDILAKAPNKVGELRGSDRLIDKLKSAGKERKAALYNVPLAISTIRRLQSFYKNSYEKHMDKLTREREQLKVEVPSLSQEAVAYMKNVEVGRNNYSKIPENINKEFVQLESALNRRFGKDVIYKRNFNLSKEIASKQTYDKKLVNELQTAIKFLQQRHIQKQNNLAITRTPSKGITR |
| 2096 | sp|Q9SRH5|VDAC1\_ARATH | MVKGPGLYTEIGKKARDLLYKDHNSDQKFSITTFSPAGVAITSTGTKKGDLLLGDVAFQSRRKNITTDLKVCTDSTFLITATVDEAAPGLRSIFSFKVPDQNSGKVELQYLHEYAGISTSMGLTQNPTVNFSGVIGSNVLAVGTDVSFDTKSGNFTKINAGLSFTKEDLIASLTVNDKGDLLNASYYHIVNPLFNTAVGAEVSHKLSSKDSTITVGTQHSLDPLTSVKARVNSAGIASALIQHEWKPKSFFTISGEVDTKSIDKSAKVGLALALKP |
| 2097 | sp|P0DJ44|VM3\_VIPAA | MVTKYSSIFMSPILSNPPILYFSDCSREXYQKXLTN |
| 2098 | sp|Q9JHW5|VAMP7\_RAT | MAILFAVVARGTTILAKHAWCGGNFLEVTEQILAKIPSENNKLTYSHGNYLFHYICQDRIVYLCITDDDFERSRAFGFLNEVKKRFQTTYGSRAQTALPYAMNSEFSSVLAAQLKHHSENQSLDRVTETQAQVDELKGIMVRNIDLVAQRGERLELLIDKTENLVDSSVTFKTTSRNLARAMCVKNVKLTAIIVVVSIVFIYIIVSPLCGGFTWPSCVKK |
| 2099 | sp|Q04338|VTI1\_YEAST | MSSLLISYESDFKTTLEQAKASLAEAPSQPLSQRNTTLKHVEQQQDELFDLLDQMDVEVNNSIGDASERATYKAKLREWKKTIQSDIKRPLQSLVDSGDRDRLFGDLNASNIDDDQRQQLLSNHAILQKSGDRLKDASRIANETEGIGSQIMMDLRSQRETLENARQTLFQADSYVDKSIKTLKTMTRRLVANKFISYAIIAVLILLILLVLFSKFK |
| 2100 | sp|P76387|WZC\_ECOLI | MTEKVKQHAAPVTGSDEIDIGRLVGTVIEARWWVIGITTVFALCAVVYTFFATPIYSADALVQIEQNSGNSLVQDIGSALANKPPASDAEIQLIRSRLVLGKTVDDLDLDIAVSKNTFPIFGAGWDRLMGRQNETVKVTTFNRPKEMADQVFTLNVLDNKNYTLSSDGGFSARGQAGQMLKKEGVTLMVEAIHASPGSEFTVTKYSTLGMINQLQNSLTVTENGKDAGVLSLTYTGEDREQIRDILNSIARNYQEQNIERKSAEASKSLAFLAQQLPEVRSRLDVAENKLNAFRQDKDSVDLPLEAKAVLDSMVNIDAQLNELTFKEAEISKLYTKVHPAYRTLLEKRQALEDEKAKLNGRVTAMPKTQQEIVRLTRDVESGQQVYMQLLNKEQELKITEASTVGDVRIVDPAITQPGVLKPKKGLIILGAIILGLMLSIVGVLLRSLFNRGIESPQVLEEHGISVYASIPLSEWQKARDSVKTIKGIKRYKQSQLLAVGNPTDLAIEAIRSLRTSLHFAMMQAQNNVLMMTGVSPSIGKTFVCANLAAVISQTNKRVLLIDCDMRKGYTHELLGTNNVNGLSEILIGQGDITTAAKPTSIAKFDLIPRGQVPPNPSELLMSERFAELVNWASKNYDLVLIDTPPILAVTDAAIVGRHVGTTLMVARYAVNTLKEVETSLSRFEQNGIPVKGVILNSIFRRASAYQDYGYYEYEYKSDAK |
| 2101 | sp|Q9NZC7|WWOX\_HUMAN | MAALRYAGLDDTDSEDELPPGWEERTTKDGWVYYANHTEEKTQWEHPKTGKRKRVAGDLPYGWEQETDENGQVFFVDHINKRTTYLDPRLAFTVDDNPTKPTTRQRYDGSTTAMEILQGRDFTGKVVVVTGANSGIGFETAKSFALHGAHVILACRNMARASEAVSRILEEWHKAKVEAMTLDLALLRSVQHFAEAFKAKNVPLHVLVCNAATFALPWSLTKDGLETTFQVNHLGHFYLVQLLQDVLCRSAPARVIVVSSESHRFTDINDSLGKLDFSRLSPTKNDYWAMLAYNRSKLCNILFSNELHRRLSPRGVTSNAVHPGNMMYSNIHRSWWVYTLLFTLARPFTKSMQQGAATTVYCAAVPELEGLGGMYFNNCCRCMPSPEAQSEETARTLWALSERLIQERLGSQSG |
| 2102 | sp|Q9DAJ4|WDR83\_MOUSE | MAFPEPKPRAPELPQKRMKTLDCSQGAVRAVRFNVDGNYCLTCGSDKTLKLWNPLRGTLLRTYSGHGYEVLDAAGSFDNSHLCSGGGDKTVVLWDVATGQVVRKFRGHAGKVNTVQFNEEATVILSGSIDSSVRCWDCRSRKPEPVQTLDEARDGISSVKVSDHEILAGSVDGRVRRYDLRMGQVSSDYVGSPITCTCFSRDGQCTLISSLDSTLRLLDKDTGELLGEYVGHKNQQYKLDCCLSERDTHVVSCSEDGKVFFWDLVEGALALALPVGSNVVQSLAYHPTEPCLLTAMGGSIQYWREETYEAEGGAG |
| 2103 | sp|P0AC78|WECA\_ECOLI | MNLLTVSTDLISIFLFTTLFLFFARKVAKKVGLVDKPNFRKRHQGLIPLVGGISVYAGICFTFGIVDYYIPHASLYLACAGVLVFIGALDDRFDISVKIRATIQAAVGIVMMVFGKLYLSSLGYIFGSWEMVLGPFGYFLTLFAVWAAINAFNMVDGIDGLLGGLSCVSFAAIGMILWFDGQTSLAIWCFAMIAAILPYIMLNLGILGRRYKVFMGDAGSTLIGFTVIWILLETTQGKTHPISPVTALWIIAIPLMDMVAIMYRRLRKGMSPFSPDRQHIHHLIMRAGFTSRQAFVLITLAAALLASIGVLAEYSHFVPEWVMLVLFLLAFFLYGYCIKRAWKVARFIKRVKRRLRRNRGGSPNLTK |
| 2104 | sp|Q9AQS0|XANLY\_BACGL | MLSGILIAALLMTLWGGWQPDIAHASDEFDALRIKWATLLTGGPALDPADSDIAARTDKLAQDANDYWEDMDLSSSRTYIWYALRGNGTSDNVNAVYERLRTMALAATTVGSSLYGNADLKEDILDALDWLYVNSYNSTRSRSAYNWWHWQLGIPMSLNDIAVLLYDDISAARMATYMDTIDYFTPSIGLTGANRAWQAIVVGVRAVIVKDAVKLAAARNGLSGTGIFPYATGGDGFYADGSFVQHTTFAYTGGYGSSVLETTANLMYLLSGSTWSVSDPNQSNVWQWIYEAYRPLLYKGAMMDMVRGREISRSYAQDHAVGHGIVASIVRLAQFAPAPHAAAFKQIAKRVIQEDTFSSFYGDVSTDTIRLAKAIVDDPSIAPAAAPNLYKQYAAMDRAVLQRPGFALGLALYSTRISSYESINSENGRGWYTGAGATYLYNQDLAQYSEDYWPTVDAYRIPGTTVASGTPIASGTGTSSWTGGVSLAGQYGASGMDLSYGAYNLSARKSWFMFDDEIVALGSGISSTAGIPIETVVDNRKLNGAGDNAWTANGAALSTGLGVAQTLTGVNWVHLAGNTADGSDIGYYFPGGATLQTKREARTGTWKQINNRPATPSTAVTRNYETMWIDHGTNPSGASYGYVLLPNKTSAQVGAYAADPAIEIVVNTSGVQSVKEKTLGLVGANFWTDTTQTADLITSNKKASVMTREIADERLEASVSDPTQANNGTIAIELARSAEGYSADPGITVTQLAPTIKFTVNVNGAKGKSFHASFQLGEDTSGPVDPGEPELPSVIVDNADSAGVTRTGTWKTASTQTDRYGANYLHDDNAGKGTKSVTFTPNLPIAGSYEVYLMWPAHFNREDAVQVDVGHASGTTRTAVDQRSGGGVWHSIGTYEFLAGSGGSVTIRNDALGSPDGYVVADAVKFVAVG |
| 2105 | sp|O57473|WEE2B\_XENLA | MRMAMSCGGRLVQRLDFSSSEEEDGLSNRINEAPQKGSPVSSWRTNNCPFPITPQRNERGLSPTQELSPSSDYSPDPSDKGVGGECPGTPLHYSTWKKLKLCDTPYTPKSLLYKTLPSPGSRVHCRGQRLLRFVAGTGAETEDPTLVNVNPFTPQSYRQTHFQPNGKRKERPEDDCSSDSQMKFTDKEHPAVFQSKRFVLRETNMESRYKTEFLEIEKIGAGEFGSVFKCVKRLDGCFYVIKRSKKPLAGSTDEQLALREVYAHAVLGHHPHVVRYYSAWAEDDHMIIQNEYCNGGSLQDLIMENNKKGQFVPEQELKEILLQVSMGLKYIHGSGLVHMDIKPSNIFICRKQTEVGEDESDGEDDVASASVLYKIGDLGHVTSILNPQVEEGDSRFLANEILQEDYRQLPKADIFALGLTIALAAGAAPLPCNEDGWHHIRKGNLPHIPQPLTPAFLALLKLLVHPDPATRPPATSLAKNSVLRRCVGKAAELQKQLNVEKFKTAMLERELQAAKLAQDECLDLPPVSGFSCRGRKRLVGAKNARSLSFTCGGY |
| 2106 | sp|Q80UE6|WNK4\_MOUSE | MLAPRNTETGVPMSQTEADLALRPSPALTSTGPTRLGPPPRRVRRFSGKAEPRPRSSRPSRRSSVDLGLLSSWSQPASLLPEPPDPPDSAGPTRSPPSSSKEPPEGTWMGAAPVKAVDSACPELTGSSGGPGSREPPRVPDAAARERRREQEEKEDTETQAVATSPDGRYLKFDIEIGRGSFKTVYRGLDTDTTVEVAWCELQTRKLSRAERQRFSEEVEMLKGLQHPNIVRFYDSWKSVLRGQVCIVLVTELMTSGTLKTYLRRFREMKPRVLQRWSRQILRGLHFLHSRVPPILHRDLKCDNVFITGPSGSVKIGDLGLATLKRASFAKSVIGTPEFMAPEMYEEKYDEAVDVYAFGMCMLEMATSEYPYSECQNAAQIYRKVTSGTKPNSFYKVKMPEVKEIIEGCIRTDKNERFTIQDLLAHAFFREERGVHVELAEEDDGEKPGLKLWLRMEDARRGGRPRDNQAIEFLFQLGRDAAEEVAQEMVALGLVCEADYQPVARAVRERVAAIQRKREKLRKARELEVLPPDSGPPPATVSLAPGPPSAFPPEPEEPEADQHQSFLFRHASYSSTTSDCETDGYLSSSGFLDASDPALQPPGGLPSSPAESHLCLPSGFALSIPRSGPGSDFSPGDSYASDAASGLSDMGEGGQMRKNPVKTLRRRPRSRLRVTSVSDQSDRVVECQLQTHNSKMVTFRFDLDGDSPEEIAAAMVYNEFILPSERDGFLSRIREIIQRVETLLKRDAGPPEAAEDALSPQEEPAALPALPGPPNAEPQRSISPEQRSWAAFSTSPSSPGTPLSPGAPFSPGTPPVFPCPIFPITSPSCYPCPFSQVSSNPYPQAPSSLLPLSSSASQVPLPSSSLPISAPLPFSPSYPQDPLSPTSLPVCPSPPSLPSTTAAPLLSLASAFSLAVMTVAQSLLSPSPGLLSQSPPAPPGPLPSLPLSLASCDQESLSAQTAETENEASRNPAQPLLGDARLAPISEEGKPQLVGRFQVTSSKEPAEPPLQPASPTLSRSLKLPSPPLTSESSDTEDSAAGGPETREALAESDRAAEGLGVAVDDEKDEGKEPLLGGSSPILSHPSPVWMNYSYSSLCLSSEESESSGEDEEFWAELQNLRQKHLSEVEALQTLQKKEIEDLYSRLGKQPPPGIVAPAAMLSCRQRRLSKGSFPTSRRNSLQRSDLPGPGIMRRNSLSGSSTGSQEQRASKGVTFAGDIGRM |
| 2107 | sp|Q944Q0|WNK8\_ARATH | MASGSGFLGQISSMEEADFAEKDPSGRYIRYDDVLGRGAFKTVYKAFDEVDGIEVAWNLVSIEDVMQMPGQLERLYSEVHLLKALKHENIIKLFYSWVDEKNKTINMITELFTSGSLRVYRKKHRKVDPKAIKNWARQILKGLNYLHSQNPPVIHRDLKCDNIFVNGNTGEVKIGDLGLATVLQQPTARSVIGTPEFMAPELYEEEYNELVDIYSFGMCMLEMVTCEYPYNECRNQAQIYKKVTSNIKPQSLGKVDDPQVRQFIEKCLLPASSRPTALELSKDPFLARDGGKDSALLASSSTSSKYVRPPQLEHLPMDVDHNENKSVSSNEDYPWSQTIELQRIAENKEFRLRGERSDDVTASMVLRIADPSGKCRIVHFAFYLESDTATAIAEEMVEELHLTSQEVVVIADMIDDFIMQLLSDRTSSHHNQNSPRLTHEDHEAANQQTVNSKDEEAAGQSMKSDISADYYFPYSANDGNAAMEAGRDAESMSSYLDSCSMMSTIYNLSISDNDYPEDLKTELNLIESQFNQSFQDLLKLKEDAIENAKRKWITKKQKAVNIS |
| 2108 | sp|Q64527|WNT8A\_MOUSE | MGHLLMLWVAAGMCYPALGASAWSVNNFLITRPKAYLTYTASVALGAQIGIEECKFQFAWERWNCPEHAFQFSTHNRLRAATRETSFIHAIRSAAIMYAVTKNCSMGDLENCGCDESQNGKTGGHGWIWGGCSDNVEFGEKISRLFVDSLEKGKDARALVNLHNNRAGRLAVRASTKRTCKCHGISGSCSIQTCWLQLADFRQMGNYLKAKYDRALKIEMDKRQLRAGNRAEGRWALTEAFLPSTEAELIFLEGSPDYCNRNASLSIQGTEGRECLQNARSASRREQRSCGRLCTECGLQVEERRAEAVSSCDCNFQWCCTVKCGQCRRVVSRYYCTRPVGSARPRGRGKDSAW |
| 2109 | sp|Q9JIH7|WNK1\_RAT | MSDGTAEKQSGTPGFLSPPAPVPKNGSSSDSSVGEKLGAAVADSGIGRTEEYRRRRHTMDKDSRGAAATTTPTEHRFFRRSVICDSNATALELPGLPLSIPQPSVPAVVPQSAPPEPHREETLTATVASQVSQQPSAAASPGEQAVVGSATATVPSSTSKDRPVSQPSLVGSKEEPPPSRSGSGSGGASAKEPQEERNQQQDDIEELETKAVGMSNDGRFLKFDIEIGRGSFKTVYKGLDTETTVEVAWCELQDRKLTKSERQRFKEEAEMLKGLQHPNIVRFYDSWESTVKGKKCIVLVTELMTSGTLKTYLKRFKVMKIKVLRSWCRQILKGLQFLHTRTPPIIHRDLKCDNIFITGPTGSVKIGDLGLATLKRASFAKSVIGTPEFMAPEMYEEKYDESVDVYAFGMCMLEMATSEYPYSECQNAAQIYRRVTSGVKPASFDKVAIPEVKEIIEGCIRQNKDERYSIKDLLNHAFFQEETGVRVELAEEDDGEKIAIKLWLRIEDIKKLKGKYKDNEAIEFSFDLERDVPEDVAQEMVESGYVCEGDHKTMAKAIKDRVSLIKRKREQRQLVREEQEKRKQEESSFKQQNEQQASVSQAGIQPLSVASTGIPTAPTTSASVSTQVEPEEPEADQHQQLQYQQPSISVLSDGTVDSGQGSSVFTESRVSSQQTVSYGSQHEQAHSIGTAPGHTVSSIQAQSQPHGVYPPSSMAQGQNQGQPSSSLAGVLSSQPVQHPQQQGIQPTVPPQQAVQYSLPQAASSSEGTVQPVSQPQVSAGTQSSTQGVSQAAPPEQTPITQSQPTQPVPLVSSVDSAHSDVASGMSDGNENAPSSSGRHEGRTTKRHYRKSVRSRSRHEKTSRPKLRILNVSNKGDRVVECQLETHNRKMVTFKFDLDGDNPEEIATIMVNNDFILAIERESFVAQVREIIEKADEMLSEDVSVEPEGDQGLESLQGKDDYGFPGSQKLEGEFKQPIAVSSMPQQIGVPTSSLTQVVHSAGRRFIVSPVPESRLRESKIFTSEIPDPVAASTSQGPGMNLSHSASSLSLQQAFSELKHGQMTEGPNTAPPNFNHPGPTFSPFLTSIAGVQTVAASTPSVSVPITSSPLNDISTSVMQSEGALPTDKGIGGVTTSTGVVASGGLTTLSVSETPTLSSAVSSSTAPAVVTVSTTSQPVQASTSGSIASSTGSFPSGTFSTTTGTTVSSVAVPNAKPPTVLLQQVAGNTAGVAIVTSVSTTTPFPAMASQPSLPLGSSTSAPTLAETVVVSAHSLDKASHSSTAGLGLSFCAPSSSSSSGTAVSSSVSQPGIVHPLVISSAIASTPVLPQPAVPTSTPLLPQVPNIPPLVQPVANVPAVQQTLIHSQPQPALLPNQPHTHCPEMDADTQSKAPGIDDIKTLEEKLRSLFSEHSSSGTQHASVSLETPLVVETVTPGIPTTAVAPSKLMTSTTSTCLPPTNLPLGTAGMPVMPVGTPGQVSTPGTHASAPASTATGAKPGTTPPKPSLTKTVVPPVGTELSAGTVPCEQLPPFPGPSLIQTQQPLEDLDAQLRRTLSPETIPVTPAVGPLSTMSSTAVTEAGSQPQKDGTEVHVTASSSGAGVVKMGRFQVSVTMDDAQKERKNRSEDTKSVHFESSTSESSVLSSSSPESTLVKPEPNGITVSGISLDVPDSTHRTPTPEAKSETGQPTKVGRFQVTTTANKVGRFSVSRTEDKVTELKKEGPVTSPFRDSEQTVIPAAIPKKEKPELAEPSHLNGPSSDLEAAFLSRGGEDGSGSPHSPPHLCSKSLPIQTLSQSLSNSFNSSYMSSDNESDIEDEDLRLELRRLREKHLKEIQDLQSRQKHEIESLYTKLGKVPPAVIIPPAAPLSGRRRRPTKSKGSKSSRSSSLGNKSPQLSGNLSGQSGTSVLNPQQTLHPPGNTPETGHNQLLQPLKPSPSSDNLYSAFTSDGAISVPSLSAPGQGTSSTNTVGGTVSSQAAQAQPPAMTSSRKGTFTDDLHKLVDNWARDAMNLSGRRGSKGHMNYEGPGMARKFSAPGQLCISMTSNMGGSTPISAASATSLGHFTKSMCPPQQYGFPAAPFGTQWSGTGGPAPQPLGQFQPVGTTSLQNFNISNLQKSISNPPGSNLRTT |
| 2110 | sp|P0A898|YBEY\_ECOLI | MSQVILDLQLACEDNSGLPEESQFQTWLNAVIPQFQEESEVTIRVVDTAESHSLNLTYRGKDKPTNVLSFPFEVPPGMEMSLLGDLVICRQVVEKEAQEQGKPLEAHWAHMVVHGSLHLLGYDHIEDDEAEEMEALETEIMLALGYEDPYIAEKE |
| 2111 | sp|P0C2I2|YD14B\_YEAST | MESQQLSNYPHISHGSACASVTSKEVHTNQDPLDVSASKIQEYDKASTKANSQQTTTPASSAVPENPHHASPQPASVPPPQNGPYPQQCMMTQNQANPSGWSFYGHPSMIPYTPYQMSPMYFPPGPQSQFPQYPSSVGTPLSTPSPESGNTFTDSSSADSDMTSTKKYVRPPPMLTSPNDFPNWVKTYIKFLQNSNLGGIIPTVNGKPVRQITDDELTFLYNTFQIFAPSQFLPTWVKDILSVDYTDIMKILSKSIEKMQSDTQEANDIVTLANLQYNGSTPADAFETKVTNIIDRLNNNGIHINNKVACQLIMRGLSGEYKFLRYTRHRHLNMTVAELFLDIHAIYEEQQGSRNSKPNYRRNPSDEKNDSRSYTNTTKPKVIARNPQKTNNSKSKTARAHNVSTSNNSPSTDNDSISKSTTEPIQLNNKHDLHLGQKLTESTVNHTNHSDDELPGHLLLDSGASRTLIRSAHHIHSASSNPDINVVDAQKRNIPINAIGDLQFHFQDNTKTSIKVLHTPNIAYDLLSLNELAAVDITACFTKNVLERSDGTVLAPIVKYGDFYWVSKKYLLPSNISVPTINNVHTSESTRKYPYPFIHRMLAHANAQTIRYSLKNNTITYFNESDVDWSSAIDYQCPDCLIGKSTKHRHIKGSRLKYQNSYEPFQYLHTDIFGPVHNLPNSAPSYFISFTDETTKFRWVYPLHDRREDSILDVFTTILAFIKNQFQASVLVIQMDRGSEYTNRTLHKFLEKNGITPCYTTTADSRAHGVAERLNRTLLDDCRTQLQCSGLPNHLWFSAIEFSTIVRNSLASPKSKKSARQHAGLAGLDISTLLPFGQPVIVNDHNPNSKIHPRGIPGYALHPSRNSYGYIIYLPSLKKTVDTTNYVILQGKESRLDQFNYDALTFDEDLNRLTASYHSFIASNEIQESNDLNIESDHDFQSDIELHPEQPRNVLSKAVSPTDSTPPSTHTEDSKRVSKTNIRAPREVDPNISESNILPSKKRSSTPQISNIESTGSGGMHKLNVPLLAPMSQSNTHESSHASKSKDFRHSDSYSENETNHTNVPISSTGGTNNKTVPQISDQETEKRIIHRSPSIDASPPENNSSHNIVPIKTPTTVSEQNTEESIIADLPLPDLPPESPTEFPDPFKELPPINSHQTNSSLGGIGDSNAYTTINSKKRSLEDNETEIKVSRDTWNTKNMRSLEPPRSKKRIHLIAAVKAVKSIKPIRTTLRYDEAITYNKDIKEKEKYIEAYHKEVNQLLKMNTWDTDKYYDRKEIDPKRVINSMFIFNRKRDGTHKARFVARGDIQHPDTYDSGMQSNTVHHYALMTSLSLALDNNYYITQLDISSAYLYADIKEELYIRPPPHLGMNDKLIRLKKSLYGLKQSGANWYETIKSYLIKQCGMEEVRGWSCVFKNSQVTICLFVDDMILFSKDLNANKKIITTLKKQYDTKIINLGESDNEIQYDILGLEIKYQRGKYMKLGMENSLTEKIPKLNVPLNPKGRKLSAPGQPGLYIDQDELEIDEDEYKEKVHEMQKLIGLASYVGYKFRFDLLYYINTLAQHILFPSRQVLDMTYELIQFMWDTRDKQLIWHKNKPTEPDNKLVAISDASYGNQPYYKSQIGNIYLLNGKVIGGKSTKASLTCTSTTEAEIHAISESVPLLNNLSHLVQELNKKPITKGLLTDSKSTISIIISNNEEKFRNRFFGTKAMRLRDEVSGNHLHVCYIETKKNIADVMTKPLPIKTFKLLTNKWIH |
| 2112 | sp|Q12269|YG12B\_YEAST | MESQQLSQHSHISHGSACASVTSKEVHTNQDPLDVSASKIQEYDKASTKANSQQTTTPASSAVPENPHHASPQPASVPPPQNGPYPQQCMMTQNQANPSGWSFYGHPSMIPYTPYQMSPMYFPPGPQSQFPQYPSSVGTPLSTPSPESGNTFTDSSSADSDMTSTKKYVRPPPMLTSPNDFPNWVKTYIKFLQNSNLGGIIPTVNGKPVRQITDDELTFLYNTFQIFAPSQFLPTWVKDILSVDYTDIMKILSKSIEKMQSDTQEANDIVTLANLQYNGSTPADAFETKVTNIIDRLNNNGIHINNKVACQLIMRGLSGEYKFLRYTRHRHLNMTVAELFLDIHAIYEEQQGSRNSKPNYRRNPSDEKNDSRSYTNTTKPKVIARNPQKTNNSKSKTARAHNVSTSNNSPSTDNDSISKSTTEPIQLNNKHDLHLGQELTESTVNHTNHSDDELPGHLLLDSGASRTLIRSAHHIHSASSNPGINVVDAQKRNIPINAIGDLQFHFQDNTKTSIKVLHTPNIAYDLLSLNELAAVDITACFTKNVLERSDGTVLAPIVKYGDFYWVSKKYLLPSNISVPTINNVHTSESTRKYPYPFIHRMLAHANAQTIRYSLKNNTITYFNESDVDWSSAIDYQCPDCLIGKSTKHRHIKGSRLKYQNSYEPFQYLHTDIFGPVHNLPNSAPSYFISFTDETTKFRWVYPLHDRREDSILDVFTTILAFIKNQFQASVLVIQMDRGSEYTNRTLHKFLEKNGITPCYTTTADSRAHGVAERLNRTLLDDCRTQLQCSGLPNHLWFSAIEFSTIVRNSLASPKSKKSARQHAGLAGLDISTLLPFGQPVIVNDHNPNSKIHPRGIPGYALHPSRNSYGYIIYLPSLKKTVDTTNYVILQGKESRLDQFNYDALTFDEDLNRLTASYHSFIASNEIQESNDLNIESDHDFQSDIELHPEQPRNVLSKAVSPTDSTPPSTHTEDSKRVSKTNIRAPREVDPNISESNILPSKKRSSTPQISNIESTGSGGMHKLNVPLLAPMSQSNTHESSHASKSKDFRHSDSYSENETNHTNVPISSTGGTNNKTVPQISDQETEKRIIHRSPSIDASPPENNSSHNIVPIKTPTTVSEQNTEESIIADLPLPDLPPESPTEFPDPFKELPPINSHQTNSSLGGIGDSNAYTTINSKKRSLEDNETEIKVSRDTWNTKNMRSLEPPRSKKRIHLIAAVKAVKSIKPIRTTLRYDEAITYNKDIKEKEKYIEAYHKEVNQLLKMNTWDTDKYYDRKEIDPKRVINSMFIFNRKRDGTHKARFVARGDIQHPDTYDSGMQSNTVHHYALMTSLSLALDNNYYITQLDISSAYLYADIKEELYIRPPPHLGMNDKLIRLKKSLYGLKQSGANWYETIKSYLIKQCGMEEVRGWSCVFKNSQVTICLFVDDMILFSKDLNANKKIITTLKKQYDTKIINLGESDNEIQYDILGLEIKYQRGKYMKLGMENSLTEKIPKLNVPLNPKGRKLSAPGQPGLYIDQDELEIDEDEYKEKVHEMQKLIGLASYVGYKFRFDLLYYINTLAQHILFPSRQVLDMTYELIQFMWDTRDKQLIWHKNKPTEPDNKLVAISDASYGNQPYYKSQIGNIFLLNGKVIGGKSTKASLTCTSTTEAEIHAVSEAIPLLNNLSHLVQELNKKPIIKGLLTDSRSTISIIKSTNEEKFRNRFFGTKAMRLRDEVSGNNLYVYYIETKKNIADVMTKPLPIKTFKLLTNKWIH |
| 2113 | sp|Q9UDV6|ZN212\_HUMAN | MAESAPARHRRKRRSTPLTSSTLPSQATEKSSYFQTTEISLWTVVAAIQAVEKKMESQAARLQSLEGRTGTAEKKLADCEKMAVEFGNQLEGKWAVLGTLLQEYGLLQRRLENVENLLRNRNFWILRLPPGSKGEAPKVSRSLENDGVCFTEQEWENLEDWQKELYRNVMESNYETLVSLKVLGQTEGEAELGTEMLGDLEEEGPGGAHPAGGVMIKQELQYTQEGPADLPGEFSCIAEEQAFLSPEQTELWGGQGSSVLLETGPGDSTLEEPVGSRVPSSSRTVGCPKQKSHRQVQLDQECGQGLKLKKDTSRPYECSECEITFRYKQQLATHLRSHSGWGSCTPEEPEESLRPRPRLKPQTKKAKLHQCDVCLRSFSCKVSLVTHQRCHLQEGPSAGQHVQERFSPNSLVALPGHIPWRKSRSSLICGYCGKSFSHPSDLVRHQRIHTGERPYSCTECEKSFVQKQHLLQHQKIHQRERGGLALEPGRPNGLL |
| 2114 | sp|Q9Y2X9|ZN281\_HUMAN | MKIGSGFLSGGGGTGSSGGSGSGGGGSGGGGGGGSSGRRAEMEPTFPQGMVMFNHRLPPVTSFTRPAGSAAPPPQCVLSSSTSAAPAAEPPPPPAPDMTFKKEPAASAAAFPSQRTSWGFLQSLVSIKQEKPADPEEQQSHHHHHHHHYGGLFAGAEERSPGLGGGEGGSHGVIQDLSILHQHVQQQPAQHHRDVLLSSSSRTDDHHGTEEPKQDTNVKKAKRPKPESQGIKAKRKPSASSKPSLVGDGEGAILSPSQKPHICDHCSAAFRSSYHLRRHVLIHTGERPFQCSQCSMGFIQKYLLQRHEKIHSREKPFGCDQCSMKFIQKYHMERHKRTHSGEKPYKCDTCQQYFSRTDRLLKHRRTCGEVIVKGATSAEPGSSNHTNMGNLAVLSQGNTSSSRRKTKSKSIAIENKEQKTGKTNESQISNNINMQSYSVEMPTVSSSGGIIGTGIDELQKRVPKLIFKKGSRKNTDKNYLNFVSPLPDIVGQKSLSGKPSGSLGIVSNNSVETIGLLQSTSGKQGQISSNYDDAMQFSKKRRYLPTASSNSAFSINVGHMVSQQSVIQSAGVSVLDNEAPLSLIDSSALNAEIKSCHDKSGIPDEVLQSILDQYSNKSESQKEDPFNIAEPRVDLHTSGEHSELVQEENLSPGTQTPSNDKASMLQEYSKYLQQAFEKSTNASFTLGHGFQFVSLSSPLHNHTLFPEKQIYTTSPLECGFGQSVTSVLPSSLPKPPFGMLFGSQPGLYLSALDATHQQLTPSQELDDLIDSQKNLETSSAFQSSSQKLTSQKEQKNLESSTGFQIPSQELASQIDPQKDIEPRTTYQIENFAQAFGSQFKSGSRVPMTFITNSNGEVDHRVRTSVSDFSGYTNMMSDVSEPCSTRVKTPTSQSYR |
| 2115 | sp|P20239|ZP2\_MOUSE | MARWQRKASVSSPCGRSIYRFLSLLFTLVTSVNSVSLPQSENPAFPGTLICDKDEVRIEFSSRFDMEKWNPSVVDTLGSEILNCTYALDLERFVLKFPYETCTIKVVGGYQVNIRVGDTTTDVRYKDDMYHFFCPAIQAETHEISEIVVCRRDLISFSFPQLFSRLADENQNVSEMGWIVKIGNGTRAHILPLKDAIVQGFNLLIDSQKVTLHVPANATGIVHYVQESSYLYTVQLELLFSTTGQKIVFSSHAICAPDLSVACNATHMTLTIPEFPGKLESVDFGQWSIPEDQWHANGIDKEATNGLRLNFRKSLLKTKPSEKCPFYQFYLSSLKLTFYFQGNMLSTVIDPECHCESPVSIDELCAQDGFMDFEVYSHQTKPALNLDTLLVGNSSCQPIFKVQSVGLARFHIPLNGCGTRQKFEGDKVIYENEIHALWENPPSNIVFRNSEFRMTVRCYYIRDSMLLNAHVKGHPSPEAFVKPGPLVLVLQTYPDQSYQRPYRKDEYPLVRYLRQPIYMEVKVLSRNDPNIKLVLDDCWATSSEDPASAPQWQIVMDGCEYELDNYRTTFHPAGSSAAHSGHYQRFDVKTFAFVSEARGLSSLIYFHCSALICNQVSLDSPLCSVTCPASLRSKREANKEDTMTVSLPGPILLLSDVSSSKGVDPSSSEITKDIIAKDIASKTLGAVAALVGSAVILGFICYLYKKRTIRFNH |
| 2116 | sp|P42098|ZP3\_PIG | MAPSWRFFVCFLLWGGTELCSPQPVWQDEGQRLRPSKPPTVMVECQEAQLVVIVSKDLFGTGKLIRPADLSLGPAKCEPLVSQDTDAVVRFEVGLHECGSSLQVTDDALVYSTFLRHDPRPAGNLSILRTNRAEVPIECHYPRQGNVSSWAILPTWVPFRTTVFSEEKLVFSLRLMEENWSAEKMTPTFQLGDRAHLQAQVHTGSHVPLRLFVDHCVATLTPDWNTSPSHTIVDFHGCLVDGLTEASSAFKAPRPGPETLQFTVDVFHFANDSRNTIYITCHLKVTPADRVPDQLNKACSFSKSSNRWSPVEGPAVICRCCHKGQCGTPSLSRKLSMPKRQSAPRSRRHVTDEADVTVGPLIFLGKTSDHGVEGSTSSPTSVMVGLGLATVVTLTLATIVLGVPRRRRAAAHLVCPVSASQ |
| 2117 | sp|Q96NB3|ZN830\_HUMAN | MASSASARTPAGKRVINQEELRRLMKEKQRLSTSRKRIESPFAKYNRLGQLSCALCNTPVKSELLWQTHVLGKQHREKVAELKGAKEASQGSSASSAPHSVKRKAPDADDQDVKRAKATLVPQVQPSTSAWTTNFDKIGKEFIRATPSKPSGLSLLPDYEDEEEEEEEEEGDGERKRGDASKPLSDAQGKEHSVSSSREVTSSVLPNDFFSTNPPKAPIIPHSGSIEKAEIHEKVVERRENTAEALPEGFFDDPEVDARVRKVDAPKDQMDKEWDEFQKAMRQVNTISEAIVAEEDEEGRLDRQIGEIDEQIECYRRVEKLRNRQDEIKNKLKEILTIKELQKKEEENADSDDEGELQDLLSQDWRVKGALL |
| 2118 | sp|O43309|ZSC12\_HUMAN | MASTWAIQAHMDQDEPLEVKIEEEKYTTRQDWDLRKNNTHSREVFRQYFRQFCYQETSGPREALSRLRELCHQWLRPETHTKEQILELLVLEQFLTILPEELQAWVQEQHPESGEEVVTVLEDLERELDEPGEQVSVHTGEQEMFLQETVRLRKEGEPSMSLQSMKAQPKYESPELESQQEQVLDVETGNEYGNLKQEVSEEMEPHGKTSSKFENDMSKSARCGETREPEEITEEPSACSREDKQPTCDENGVSLTENSDHTEHQRICPGEESYGCDDCGKAFSQHSHLIEHQRIHTGDRPYKCEECGKAFRGRTVLIRHKIIHTGEKPYKCNECGKAFGRWSALNQHQRLHTGEKHYHCNDCGKAFSQKAGLFHHIKIHTRDKPYQCTQCNKSFSRRSILTQHQGVHTGAKPYECNECGKAFVYNSSLVSHQEIHHKEKCYQCKECGKSFSQSGLIQHQRIHTGEKPYKCDVCEKAFIQRTSLTEHQRIHTGERPYKCDKCGKAFTQRSVLTEHQRIHTGERPYKCDECGNAFRGITSLIQHQRIHTGEKPYQCDECGKAFRQRKKTSYKEILLKNHSEPQAGVNLLLSSLIPEWQSCFRRDL |
| 2119 | sp|O73689|ZIC1\_XENLA | MLLDAGAQYPAIGVTTFGSSRHHSAGDVTDREVALGINPFADGMGAFKLNPSSHDLASGQTAFTSQAPGYAAAALGHHHHPGHVSSYSSAAFNSTRDFLFRNRGFGEAASAQHSLFASAAGGFPGPHGPHADTTGHLIFPGLHEQAASHASPNVVNGQMRLGFSGDMYGRPDQYGQVTSPRSEHYASSQLHGYGPMNMNMAAHHGAGAFFRYMRQPIKQELICKWIEPEQLANPKKSCNKTFSTMHELVTHVTVEHVGGPEQSNHICVWEECPREGKPFKAKYKLINHIRVHTGEKPFPCPFPGCGKVFARSENLKIHKRTHTGEKPFKCEFEGCDRRFANSSDRKKHMHVHTSDKPYLCKMCDKSYTHPSSLRKHMKVHEASSQGSQPSPAASSGYESSTPPTIVSPSAENQSTSSLSPSSSAVHHTSNHSTLSSNFNEWYV |
| 2120 | sp|Q5FC64|ZDHCS\_CAEEL | MSWYSKIYVAVREYRAKHKITGWILTRCLNVLLFIQLILLWWSLYMYVTVTIGYYVQSTIQATIYLIVGSFLFVMSMWSLAKTLFTRVGRVPERYRPSKELEDRLKAVTPMEKNRYVVEKSTPEQLAQQNTILEEMCTYCKVVVAECDQVGRLKYCYECGHIKPDRARHCSSCGKCCIKYDHHCPWINMCVTHVNYKYFLLYIIYTSFLVYWYLLTSLEGAVRYFINQQWTDELGKFLFYLFSFIVGGVFGYYPLGELIIFHYQLISLNETTVEQTKPALLRFDNAADYNMGKYNNFQSVFGWGLWLCPIDSSTQDGLHFDIRYVNTQQRNRFVRIEEEPSSTQSSQSSIQ |
| 2121 | sp|O95365|ZBT7A\_HUMAN | MAGGVDGPIGIPFPDHSSDILSGLNEQRTQGLLCDVVILVEGREFPTHRSVLAACSQYFKKLFTSGAVVDQQNVYEIDFVSAEALTALMDFAYTATLTVSTANVGDILSAARLLEIPAVSHVCADLLDRQILAADAGADAGQLDLVDQIDQRNLLRAKEYLEFFQSNPMNSLPPAAAAAAASFPWSAFGASDDDLDATKEAVAAAVAAVAAGDCNGLDFYGPGPPAERPPTGDGDEGDSNPGLWPERDEDAPTGGLFPPPVAPPAATQNGHYGRGGEEEAASLSEAAPEPGDSPGFLSGAAEGEDGDGPDVDGLAASTLLQQMMSSVGRAGAAAGDSDEESRADDKGVMDYYLKYFSGAHDGDVYPAWSQKVEKKIRAKAFQKCPICEKVIQGAGKLPRHIRTHTGEKPYECNICKVRFTRQDKLKVHMRKHTGEKPYLCQQCGAAFAHNYDLKNHMRVHTGLRPYQCDSCCKTFVRSDHLHRHLKKDGCNGVPSRRGRKPRVRGGAPDPSPGATATPGAPAQPSSPDARRNGQEKHFKDEDEDEDVASPDGLGRLNVAGAGGGGDSGGGPGAATDGNFTAGLA |
| 2122 | sp|Q8WTR7|ZN473\_HUMAN | MAEEFVTLKDVGMDFTLGDWEQLGLEQGDTFWDTALDNCQDLFLLDPPRPNLTSHPDGSEDLEPLAGGSPEATSPDVTETKNSPLMEDFFEEGFSQEIIEMLSKDGFWNSNFGEACIEDTWLDSLLGDPESLLRSDIATNGESPTECKSHELKRGLSPVSTVSTGEDSMVHNVSEKTLTPAKSKEYRGEFFSYSDHSQQDSVQEGEKPYQCSECGKSFSGSYRLTQHWITHTREKPTVHQECEQGFDRNASLSVYPKTHTGYKFYVCNEYGTTFSQSTYLWHQKTHTGEKPCKSQDSDHPPSHDTQPGEHQKTHTDSKSYNCNECGKAFTRIFHLTRHQKIHTRKRYECSKCQATFNLRKHLIQHQKTHAAKTTSECQECGKIFRHSSLLIEHQALHAGEEPYKCNERGKSFRHNSTLKIHQRVHSGEKPYKCSECGKAFHRHTHLNEHRRIHTGYRPHKCQECVRSFSRPSHLMRHQAIHTAEKPYSCAECKETFSDNNRLVQHQKMHTVKTPYECQECGERFICGSTLKCHESVHAREKQGFFVSGKILDQNPEQKEKCFKCNKCEKTFSCSKYLTQHERIHTRGVKPFECDQCGKAFGQSTRLIHHQRIHSRVRLYKWGEQGKAISSASLIKLQSFHTKEHPFKCNECGKTFSHSAHLSKHQLIHAGENPFKCSKCDRVFTQRNYLVQHERTHARKKPLVCNECGKTFRQSSCLSKHQRIHSGEKPYVCDYCGKAFGLSAELVRHQRIHTGEKPYVCQECGKAFTQSSCLSIHRRVHTGEKPYRCGECGKAFAQKANLTQHQRIHTGEKPYSCNVCGKAFVLSAHLNQHLRVHTQETLYQCQRCQKAFRCHSSLSRHQRVHNKQQYCL |
| 2123 | sp|Q80TS5|ZN423\_MOUSE | MSRRKQAKPRSVKVEEGEASDFSLAWDSSVAAAGGLEGEPECDRKTSRALEDRNSVTSQEERNEDDEDVEDESIYTCDHCQQDFESLADLTDHRAHRCPGDGDDDPQLSWVASSPSSKDVASPTQMIGDGCDLGLGEEEGGTGLPYPCQFCDKSFIRLSYLKRHEQIHSDKLPFKCTFCSRLFKHKRSRDRHIKLHTGDKKYHCHECEAAFSRSDHLKIHLKTHSSSKPFKCSVCKRGFSSTSSLQSHMQAHKKNKEHLAKSEKEAKKDDFMCDYCEDTFSQTEELEKHVLTLHPQLSEKADLQCIHCPEVFVDESTLLAHIHQAHANQKHKCPMCPEQFSSVEGVYCHLDSHRQPDSSNHSVSPDPVLGSVASMSSATPDSSASVERGSTPDSTLKPLRGQKKMRDDGQSWPKVVYSCPYCSKRDFTSLAVLEIHLKTIHADKPQQSHTCQICLDSMPTLYNLNEHVRKLHKSHAYPVMQFGNISAFHCNYCPEMFADINSLQEHIRVSHCGPNANPPDGNNAFFCNQCSMGFLTESSLTEHIQQAHCSVGSTKLESPVVQPTQSFMEVYSCPYCTNSPIFGSILKLTKHIKENHKNIPLAHSKKSKAEQSPVSSDVEVSSPKRQRLSGSANSISNGEYPCNQCDLKFSNFESFQTHLKLHLELLLRKQACPQCKEDFDSQESLLQHLTVHYMTTSTHYVCESCDKQFSSVDDLQKHLLDMHTFVLYHCTLCQEVFDSKVSIQVHLAVKHSNEKKMYRCTACNWDFRKEADLQVHVKHSHLGNPAKAHKCIFCGETFSTEVELQCHITTHSKKYNCRFCSKAFHAVILLEKHLREKHCVFDAAAENGTANGVPPTSTKKAEPADLQGMLLKNPEAPNSHEASEDDVDASEPMYGCDICGAAYTMEVLLQNHRLRDHNIRPGEDDGSRKKAEFIKGSHKCNVCSRTFFSENGLREHLQTHRGPAKHYMCPICGERFPSLLTLTEHKVTHSKSLDTGTCRICKMPLQSEEEFIEHCQMHPDLRNSLTGFRCVVCMQTVTSTLELKIHGTFHMQKLAGSSAASSPNGQGLQKLYKCALCLKEFRSKQDLVRLDVNGLPYGLCAGCMARSANGQVGGLAPPEPADRPCAGLRCPECNVKFESAEDLESHMQVDHRDLTPETSGPRKGAQTSPVPRKKTYQCIKCQMTFENEREIQIHVANHMIEEGINHECKLCNQMFDSPAKLLCHLIEHSFEGMGGTFKCPVCFTVFVQANKLQQHIFAVHGQEDKIYDCSQCPQKFFFQTELQNHTMSQHAQ |
| 2124 | sp|Q04921|SPR28\_YEAST | MFPMKDHSALEQHTLSRDELRRRKGYKKGLQLSILLLGEKGSGKSTFLNNLCGQDISLSDGDYDDDDDKVTNNVTPENGNAIEDIDPGYKTAHLSPGLKLVTRRVYLNDELGVPITLDIILFPGCGDNVDNSQSSVVIKNYLDQQFANVLKEEVRIKRNTKETDGRPHVCLYFLKSTPRGVKKFDIELMKTICDKVNLIPIIPKADGLTETELNLHKDIVRQEISQNNIRVFDFKSDTLGETLALYDMDIDSSSAKSKYDNDTKIKEISPFAIVCSKTFNKNSENRVEHIRTYEWGSLVVEDQNTSDFIYLKAILLGSHLQELKDVTNNVLYENYRAKVLTEKKNNYDIPNYSYIDETSRGSVSNVSTRRNSASRTLGNPDTNDENAYQIHKEIDEKNRIIEDYQRKIDLLEKMLAAPHQNKV |
| 2125 | sp|P16043|SLIB\_MOUSE | MLLWVLFVILILTSGSHCSLPPSPPFRMQRHVDAIFTTNYRKLLSQLYARKVIQDIMNKQGERIQEQRARLSRQEDSMWTEDKQMTLESILQGFPRMKPSADA |
| 2126 | sp|Q8K1P7|SMCA4\_RAT | MSTPDPPLGGTPRPGPSPGPGPSPGAMLGPSPGPSPGSAHSMMGPSPGPPSAGHPMPTQGPGGYPQDNMHQMHKPMESMHEKGMPDDPRYNQMKGMGMRSGAHTGMGPPPSPMDQHSQGYPSPLGGSEHASSPVPASGPSSGPQMSSGPGGAPLDGSDPQALGQQNRGPTPFNQNQLHQLRAQIMAYKMLARGQPLPDHLQMAVQGKRPMPGMQQQMPTLPPPSVSATGPGPGPGPGPGPGPGPAPPNYSRPHGMGGPNMPPPGPSGVPPGMPGQPPGGPPKPWPEGPMANAAAPTSTPQKLIPPQPTGRPSPAPPAVPPAASPVMPPQTQSPGQPAQPAPLVPLHQKQSRITPIQKPRGLDPVEILQEREYRLQARIVHRIQELENLPGSLAGDLRTKATIELKALRLLNFQRQLRQEVVVCMRRDTALETALNAKAYKRSKRQSLREARITEKLEKQQKIEQERKRRQKHQEYLNSILQHAKDFREYHRSVTGKLQKLTKAVATYHANTEREQKKENERIEKERMRRLMAEDEEGYRKLIDQKKDKRLAYLLQQTDEYVANLTELVRQHKAAQVAKEKKKKKKKKKAENAEGQTPAIGPDGEPLDETSQMSDLPVKVIHVESGKILTGTDAPKAGQLEAWLEMNPGYEVAPRSDSEESGSEEEEEEEEEEQPQPAQPPTLPVEEKKKIPDPDSDDVSEVDARHIIENAKQDVDDEYGVSQALARGLQSYYAVAHAVTERVDKQSALMVNGVLKQYQIKGLEWLVSLYNNNLNGILADEMGLGKTIQTIALITYLMEHKRINGPFLIIVPLSTLSNWAYEFDKWAPSVVKVSYKGSPAARRAFVPQLRSGKFNVLLTTYEYIIKDKHILAKIRWKYMIVDEGHRMKNHHCKLTQVLNTHYVAPRRLLLTGTPLQNKLPELWALLNFLLPTIFKSCSTFEQWFNAPFAMTGEKVDLNEEETILIIRRLHKVLRPFLLRRLKKEVEAQLPEKVEYVIKCDMSALQRVLYRHMQAKGVLLTDGSEKDKKGKGGTKTLMNTIMQLRKICNHPYMFQHIEESFSEHLGFTGGIVQGLDLYRASGKFELLDRILPKLRATNHKVLLFCQMTSLMTIMEDYFAYRGFKYLRLDGTTKAEDRGMLLKTFNEPGSEYFIFLLSTRAGGLGLNLQSADTVIIFDSDWNPHQDLQAQDRAHRIGQQNEVRVLRLCTVNSVEEKILAAAKYKLNVDQKVIQAGMFDQKSSSHERRAFLQAILEHEEQDEEEDEVPDDETVNQMIARHEEEFDLFMRMDLDRRREEARNPKRKPRLMEEDELPSWIIKDDAEVERLTCEEEEEKMFGRGSRHRKEVDYSDSLTEKQWLKAIEEGTLEEIEEEVRQKKSSRKRKRDSEAGSSTPTTSTRSRDKDEESKKQKKRGRPPAEKLSPNPPNLTKKMKKIVDAVIKYKDSSGRQLSEVFIQLPSRKELPEYYELIRKPVDFKKIKERIRNHKYRSLNDLEKDVMLLCQNAQTFNLEGSLIYEDSIVLQSVFTSVRQKIEKEDDSEGEESEEEEEGEEEGSESESRSVKVKIKLGRKEKAQDRLKGGRRRPSRGSRAKPVVSDDDSDEEQEEDRSGSGSEED |
| 2127 | sp|P54920|SNAA\_HUMAN | MDNSGKEAEAMALLAEAERKVKNSQSFFSGLFGGSSKIEEACEIYARAANMFKMAKNWSAAGNAFCQAAQLHLQLQSKHDAATCFVDAGNAFKKADPQEAINCLMRAIEIYTDMGRFTIAAKHHISIAEIYETELVDIEKAIAHYEQSADYYKGEESNSSANKCLLKVAGYAALLEQYQKAIDIYEQVGTNAMDSPLLKYSAKDYFFKAALCHFCIDMLNAKLAVQKYEELFPAFSDSRECKLMKKLLEAHEEQNVDSYTESVKEYDSISRLDQWLTTMLLRIKKTIQGDEEDLR |
| 2128 | sp|Q8N9Q2|SR1IP\_HUMAN | MAVPGCNKDSVRAGCKKCGYPGHLTFECRNFLRVDPKRDIVLDVSSTSSEDSDEENEELNKLQALQEKRINEEEEKKKEKSKEKIKLKKKRKRSYSSSSTEEDTSKQKKQKYQKKEKKKEKKSKSKKGKHHKKEKKKRKKEKHSSTPNSSEFSRK |
| 2129 | sp|O70377|SNP23\_RAT | MDDLSPEEIQLRAHQVTDESLESTRRILGLAIESQDAGIKTITMLDEQGEQLNRIEEGMDQINKDMREAEKTLTELNKCCGLCVCPCNRTKNFESGKNYKATWGDGGDSSPSNVVSKQPSRITNGQPQQTTGAASGGYIKRITNDAREDEMEENLTQVGSILGNLKNMALDMGNEIDAQNQQIQKITEKADTNKNRIDIANTRAKKLIDS |
| 2130 | sp|P0A2M9|SPVC\_SALTY | MPINRPNLNLNIPPLNIVAAYDGAEIPSTNKHLKNNFNSLHNQMRKMPVSHFKEALDVPDYSGMRQSGFFAMSQGFQLNNHGYDVFIHARRESPQSQGKFAGDKFHISVLRDMVPQAFQALSGLLFSEDSPVDKWKVTDMEKVVQQARVSLGAQFTLYIKPDQENSQYSASFLHKTRQFIECLESRLSENGVISGQCPESDVHPENWKYLSYRNELRSGRDGGEMQRQALREEPFYRLMTE |
| 2131 | sp|Q7M6Y2|SOX11\_MOUSE | MVQQAESSEAESNLPRDALDTEEGEFMACSPVALDESDPDWCKTASGHIKRPMNAFMVWSKIERRKIMEQSPDMHNAEISKRLGKRWKMLKDSEKIPFIREAERLRLKHMADYPDYKYRPRKKPKTDPAAKPSAGQSPDKSAAGAKAAKGPGKKCAKLKAPAGKAGAGKAAQPGDCAAGKAAKCVFLDDDDEDDDEDDELQLRPKPDADDDDDEPAHSHLLPPPTQQQPPQLLRRYSVAKVPASPTLSSAAESPEGASLYDEVRAGGRLYYSFKNITKQQPPPAPPALSPASSRCVSTSSSSGSSSGSGAEDADDLMFDLSLNFSQGAHSACEQPLGAGAAGNLSLSLVDKDLDSFSEGSLGSHFEFPDYCTPELSEMIAGDWLEANFSDLVFTY |
| 2132 | sp|Q05471|SWR1\_YEAST | MTTSRKSHAKDKKAGGEQDLADLKFRYDLLTNELFHLREFVSLVDYDPTHFNDSESFQKFLRETHLSLEERGEKFTDDVAKKGTNGDLTRRRRNLRTSTVVSSETTNEKKGDIELKLESIAPLVRNKCEELKYKLSDHSNRKSIVPQKRPIQHLKKREAAKSLKFKSERKENPLPLHEHIAEERYDHIAKVEEPSEAFTIKCPSDDSSFENTSEHYSDNFYFTTSSEEEDIKKKRGRKKKKPRIKLVVHPPKQTITNPLHVVKPGYESLHEYIASFKSLEDDLTLEEYNKYIDEQRRLLSRLKKGIENGALKYDKETDSLQPITSKEIKTIITYKPDPISYFYKQQDLQIHTDHLINQGIHMSKLFRSSTKARIARAKKVSQMIEQHFKHVAGAEERKAKEEERHKKSLARFAVQAVKKRWNMAEKAYRILRKDEEEQLKRIEGKQHLSKMLEKSTQLLEAQLNQVNDDGRSSTPSSDSNDVLSESDDDMDDELSTSSDEDEEVDADVGLENSPASTEATPTDESLNLIQLKEKYGHFNGSSTVYDSRNKDEKFPTLDKHESSSSESSVMTGEESSIYSSSENESQNENDRESDDKTPSVGLSALFGKGEESDGDLDLDDSEDFTVNSSSVEGEELEKDQVDNSAATFERAGDFVHTQNENRDDIKDVEEDAETKVQEEQLSVVDVPVPSLLRGNLRTYQKQGLNWLASLYNNHTNGILADEMGLGKTIQTISLLAYLACEKENWGPHLIVVPTSVLLNWEMEFKRFAPGFKVLTYYGSPQQRKEKRKGWNKPDAFHVCIVSYQLVVQDQHSFKRKRWQYMVLDEAHNIKNFRSTRWQALLNFNTQRRLLLTGTPLQNNLAELWSLLYFLMPQTVIDGKKVSGFADLDAFQQWFGRPVDKIIETGQNFGQDKETKKTVAKLHQVLRPYLLRRLKADVEKQMPAKYEHIVYCKLSKRQRFLYDDFMSRAQTKATLASGNFMSIVNCLMQLRKVCNHPNLFEVRPILTSFVLEHCVASDYKDVERTLLKLFKKNNQVNRVDLDFLNLVFTLNDKDLTSYHAEEISKLTCVKNFVEEVNKLRETNKQLQEEFGEASFLNFQDANQYFKYSNKQKLEGTVDMLNFLKMVNKLRCDRRPIFGKNLIDLLTKDRRVKYDKSSIIDNELIKPLQTRVLDNRKIIDTFAVLTPSAVSLDMRKLALGLNDDSSVGENTRLKVMQNCFEVSNPLHQLQTKLTIAFPDKSLLQYDCGKLQKLAILLQQLKDNGHRALIFTQMTKVLDVLEQFLNYHGYLYMRLDGATKIEDRQILTERFNTDSRITVFILSSRSGGLGINLTGADTVIFYDSDWNPAMDKQCQDRCHRIGQTRDVHIYRFVSEHTIESNILKKANQKRQLDNVVIQEGDFTTDYFSKLSVRDLLGSELPENASGGDKPLIADADVAAKDPRQLERLLAQAEDEDDVKAANLAMREVEIDNDDFDESTEKKAANEEEENHAELDEYEGTAHVDEYMIRFIANGYYY |
| 2133 | sp|Q06677|SWA2\_YEAST | MSDPFAHLLTSLKNKDSASASKETTPQSSNSPSITGSAVADVARTDKSPNDSLHSISAPPLIPSPKVDFSAPPLVPTNSTTKSNTANNTPPSALANTDDDFNQLFGMGTVTTTDTIQKPDEDYYGSKEDHLYNGDDALVDEVKDMEIARLMSLGLSIEEATEFYENDVTYERYLEILKSKQKERNDLAIRKKESGIKMEKSGLSNIVGTDSNNLFSMATDFFNKGKKLVDQWTSFPPEANDRLNNYSKTHDKVEDYDLPQVNDSPNRILFEDNEVVENLPPADNPDQDLLTDFETKIDITKRTAPDVSHSSSPTSGILIEENSRRNEPLIEDSLLDFSEGNLTNSKSNEDSTLFNENSNTDSTIPISDIELSGYNEFKAKGTSLFKNGDYINSLQEYEKSLNTLPLNHPLRIIALSNIIASQLKIGEYSKSIENSSMALELFPSSKAKWKNKISNSDPERSFNDIWPKIMIRRAESFEHLESFKKALETYQELIKKNFFDDKIMQGKRRCQDFINPPPVKKSMPVKKKTTTTSPATKKQNLTASSSNSPISVDSTSEIKKRELENAKLALYDKVFEKISSWKDGKDDDIRHLLANLSSLLTWCNWKDVSMQDLVMPKRVKITYMKAVAKTHPDKIPESLSLENKMIAENIFSTLSIAWDKFKLQNDIN |
| 2134 | sp|O54864|SUV91\_MOUSE | MAENLKGCSVCCKSSWNQLQDLCRLAKLSCPALGVSKKNLYDFEVEYLCDYKKIREQEYYLVKWRGYPDSENTWEPRQNLKCIRVLKQFHKDLERELVRRHRRSKPPRHLDPNLANYLVQKAKQRRALQRWEQELNAKRSHLGRITVENEVDLDGPPRSFVYINEYRVGEGITLNQVAVGCECQDCLLAPTGGCCPGASLHKFAYNDQGQVRLKAGQPIYECNSRCCCGYDCPNRVVQKGIRYDLCIFRTNDGRGWGVRTLEKIRKNSFVMEYVGEIITSEEAERRGQIYDRQGATYLFDLDYVEDVYTVDAAYYGNISHFVNHSCDPNLQVYNVFIDNLDERLPRIAFFATRTIWAGEELTFDYNMQVDPVDMESTRMDSNFGLAGLPGSPKKRVRIECKCGTTACRKYLF |
| 2135 | sp|Q9Z2W1|STK25\_MOUSE | MAHLRGFAHQHSRVDPEELFTKLDRIGKGSFGEVYKGIDNHTKEVVAIKIIDLEEAEDEIEDIQQEITVLSQCDSPYITRYFGSYLKSTKLWIIMEYLGGGSALDLLKPGPLEETYIATILREILKGLDYLHSERKIHRDIKAANVLLSEQGDVKLADFGVAGQLTDTQIKRNTFVGTPFWMAPEVIKQSAYDFKADIWSLGITAIELAKGEPPNSDLHPMRVLFLIPKNNPPTLEGHHSKPFKEFVEACLNKDPRFRPTAKELLKHKFITRYTKKTSFLTELIDRYKRWKSEGHGEESSSEDSDIDGEAEDGEQGPIWTFPPTIRPSPHSKLHKGTALHSSQKPAEPIKRQPRSQCLSTLVRPVFGELKEKHKQSGGSVGALEELENAFSLAEESCPGISDKLMVHLVERVQRFSHSRNHLTSTR |
| 2136 | sp|Q9UH99|SUN2\_HUMAN | MSRRSQRLTRYSQGDDDGSSSSGGSSVAGSQSTLFKDSPLRTLKRKSSNMKRLSPAPQLGPSSDAHTSYYSESLVHESWFPPRSSLEELHGDANWGEDLRVRRRRGTGGSESSRASGLVGRKATEDFLGSSSGYSSEDDYVGYSDVDQQSSSSRLRSAVSRAGSLLWMVATSPGRLFRLLYWWAGTTWYRLTTAASLLDVFVLTRRFSSLKTFLWFLLPLLLLTCLTYGAWYFYPYGLQTFHPALVSWWAAKDSRRPDEGWEARDSSPHFQAEQRVMSRVHSLERRLEALAAEFSSNWQKEAMRLERLELRQGAPGQGGGGGLSHEDTLALLEGLVSRREAALKEDFRRETAARIQEELSALRAEHQQDSEDLFKKIVRASQESEARIQQLKSEWQSMTQESFQESSVKELRRLEDQLAGLQQELAALALKQSSVAEEVGLLPQQIQAVRDDVESQFPAWISQFLARGGGGRVGLLQREEMQAQLRELESKILTHVAEMQGKSAREAAASLSLTLQKEGVIGVTEEQVHHIVKQALQRYSEDRIGLADYALESGGASVISTRCSETYETKTALLSLFGIPLWYHSQSPRVILQPDVHPGNCWAFQGPQGFAVVRLSARIRPTAVTLEHVPKALSPNSTISSAPKDFAIFGFDEDLQQEGTLLGKFTYDQDGEPIQTFHFQAPTMATYQVVELRILTNWGHPEYTCIYRFRVHGEPAH |
| 2137 | sp|Q5A6T5|STE7\_CANAL | MTRTTRIDTQEATKHKDLPPVPSPLSLSSNPNPECLMESKSLGRKNFKKLSLDASPVKSTSGSLRSSDMMSIKEPTSLRQKRQRPPPILHLPTASSSATSTPTSNITGSSSASSIQFAQKSPGSGVIVSQTLSRPSSAGGIPSSGYSSLNVNQSNRNVDPDNVVSTDMILNQISNLDLTSMNHHRQHYQNSHHHLPTTNRKRQTVISSISPTKSSAASSSLEPQIQSLPASSQSPIATTSSLKLNNKDLLTLKQLGSGNSGSVSKILHIPTQKTMAKKIIHIDSKSVIQTQIIRELRILHECHSPYIIEFYGACLNNNNTIVICMEYCNCGSLDKILPLCENKQFPTFVLKKLSFAILSGLTYLYTTHKIIHRDIKPNNVLMTHKGEFKLCDFGVSRELTNSLAMADTFVGTSMYMSPERIQGLDYGVKSDVWSTGLMLIELASGVPVWSEDDNNNDDDEDDEDDAYVRQGSIAAERNGQNSPSRSRKNKQKGNGYNSYNGPEGILDLLQRIVNEDAPTLTNKINPVTKLPYDKYLCQFIDLCLIKDDSVRKTPWQLLEDKEHFFKGVEEGVYDKEHKSWAKKIRKCKV |
| 2138 | sp|Q9CUU3|SYCP2\_MOUSE | MPVRPDLQQLEKCIDDALRKNDFKPLLALLQIDICEDVKIKCSKQFLRKLDDLICRELNKKDIQTVSSILISIGRCSKNIFILGQAGLQTMIKQGLVQKMVSWFENSKEIILNQQQSKDEAVMNMIEDLFDLLMVIYDISDEGKNQVLESFIPQICALVIDSRVNFCIQQEALKKMNLMLDRIPQDANKILSNQEMLTLMSNMGERILDVGDYELQVGIVEALCRMTTEKRRQELAYEWFSMDFIANAFKEIKDCEFETDCRIFLNLVNGILGDKRRVYTFPCLSAFLGKYELQIPSDEKLEEFWIDFNLGSHTLSFYIAGDEEDHQWEAVTVPEEKVQMYNIEVRESKKLLTLTLKNIVKISKKEGKELLFYFDESLEITNVTKKVFGGNKYKEFTRKQGISVAKTSIHVLFDASGSQILVPESQPSPVKENLIHLKEKSDIQKKLVNPLELGNSSSQDEITTPSRKKMSEASMIVPDTDRYTVRSPILLINTSTPRRSREPLQAINSVEKAVSKTSESGMDYAASPKSRQSDGRKRWNNRANHNKTTAVIQNKQYEDNESPDQNFNEIEDTLSNVSSAVGKVDKPVLPGVLDISKNTTHSRWACWTPVTTIKLCNNQRSRALPGDTCTQDTGVNKKCTKQKSVSDDDSEETQKGKYSKDVIKCNKSDEAEFCERNIQEQNHPKYSQKKNTANAKKSDWHIESETTYKSVLLNKTTEESLIYKKTCVLSKDVNTTICDKSPSRKSKRNHTKSRKELMSELTSCELEEIPVRENSKGKRFTGASESLINQISRRYNPSDSMMSTRKLKEPQDGSGFSKKPDLQFNKVQRKSYRKLKATVVNVTSECPLDDVYNFSLNGADEPVIKLGIQEFQATTREASMDNSLKLVKNHDEHDPFLKTKDKRMLSYEKKTLLSDTETECGCDDSKTDISWLKEPKTKRLMDYSRNKNTTKYKSRKSRSSMEKGQPRPTMVLNKNSMKNDYEVVVDGRTRLPRRATKTKKNYKDLSTSESESESEKECSYLFKDKLPTKEETIHSRAQTKKLPEKQQKVFNSEALKGQPSEEQKNSSRLREGREDSLCLSSASVSRSSSSVEVMRCTEKITERDFTQDYDYITKSLSPYPKAPSPEFLNGNNSVVGRGQSPRISETSAMCVRKSYSPASGPPFSPRHTPTKNNSVVNMKKANSVINNQRTQHCNSYSDVSSNSSEKLYMEPESPESCDNHMQNKREGNHAASPLSLSSEKIEKMWFDMPSENTHVSGPSQRGSKRRMYLEDDELSNSNEAEVEEAEEREHLLSKKRCQWENSDQHTFKTSLSTPDFSVPKDWQQELQGAGMFYDNISSDYKRKTDSQHKIMDDFTTKTLKLTQQHLMAMTSQAQGRRDENVEKFQVTLLDELEKVEKDSQTLRDLEKELVDIEEKLVQKMRAYHRCERERFRVLKTSLDKSFLVYNSVYEESVFTSEMCLMKANMKMLQDKLLKEMHEEEVLNIRRGLQSLFKAHEGNDA |
| 2139 | sp|Q6EZC3|SUBB\_ECOLX | MTIKRFFVCAGIMGCLSLNPAMAEWTGDARDGMFSGVVITQFHTGQIDNKPYFCIEGKQSAGSSISACSMKNSSVWGASFSTLYNQALYFYTTGQPVRIYYKPGVWTYPPFVKALTSNALVGLSTCTTSTECFGPDRKKNS |
| 2140 | sp|Q9L268|SSGB\_STRCO | MNTTVSCELHLRLVVSSESSLPVPAGLRYDTADPYAVHATFHTGAEETVEWVFARDLLAEGLHRPTGTGDVRVWPSRSHGQGVVCIALSSPEGEALLEAPARALESFLKRTDAAVPPGTEHRHFDLDQELSHILAES |
| 2141 | sp|P00782|SUBT\_BACAM | MRGKKVWISLLFALALIFTMAFGSTSSAQAAGKSNGEKKYIVGFKQTMSTMSAAKKKDVISEKGGKVQKQFKYVDAASATLNEKAVKELKKDPSVAYVEEDHVAHAYAQSVPYGVSQIKAPALHSQGYTGSNVKVAVIDSGIDSSHPDLKVAGGASMVPSETNPFQDNNSHGTHVAGTVAALNNSIGVLGVAPSASLYAVKVLGADGSGQYSWIINGIEWAIANNMDVINMSLGGPSGSAALKAAVDKAVASGVVVVAAAGNEGTSGSSSTVGYPGKYPSVIAVGAVDSSNQRASFSSVGPELDVMAPGVSIQSTLPGNKYGAYNGTSMASPHVAGAAALILSKHPNWTNTQVRSSLENTTTKLGDSFYYGKGLINVQAAAQ |
| 2142 | sp|P79387|STF1\_PIG | MDYSYDEDLDELCPVCGDKVSGYHYGLLTCESCKGFFKRTVQNNKHYTCTESQSCKIDKTQRKRCPFCRFQKCLTVGMRLEAVRADRMRGGRNKFGPMYKRDRALKQQKKAQIRANGFKLETGPPMGVAPPPPPPPDYMLPPGLHAPEPKGLAAGPPTGPLGDFGAPTLPMAVPSAHGPLAGYLYPAFPGRAIKSEYPEPYASPPQPGPPYGYPEPFSGGPGVPELIVQLLQLEPDEDQVRARIVGCLQEPAKGRPDQPAPFSLLCRMADQTFISIVDWARRCMVFKELEVADQMTLLQNCWSELLVFDHIYRQIQHGKEGSILLVTGQEVELTTVAAQAGSLLHGLVLRAQELVLQLHALQLDRQEFVCLKFLILFSLDVKFLNNHSLVKDAQEKANAALLDYTLCHYPHCGDKFQQLLLCLVEVRALSMQAKEYLYHKHLGNEMPRNNLLIEMLQAKQT |
| 2143 | sp|Q9Y6E0|STK24\_HUMAN | MDSRAQLWGLALNKRRATLPHPGGSTNLKADPEELFTKLEKIGKGSFGEVFKGIDNRTQKVVAIKIIDLEEAEDEIEDIQQEITVLSQCDSPYVTKYYGSYLKDTKLWIIMEYLGGGSALDLLEPGPLDETQIATILREILKGLDYLHSEKKIHRDIKAANVLLSEHGEVKLADFGVAGQLTDTQIKRNTFVGTPFWMAPEVIKQSAYDSKADIWSLGITAIELARGEPPHSELHPMKVLFLIPKNNPPTLEGNYSKPLKEFVEACLNKEPSFRPTAKELLKHKFILRNAKKTSYLTELIDRYKRWKAEQSHDDSSSEDSDAETDGQASGGSDSGDWIFTIREKDPKNLENGALQPSDLDRNKMKDIPKRPFSQCLSTIISPLFAELKEKSQACGGNLGSIEELRGAIYLAEEACPGISDTMVAQLVQRLQRYSLSGGGTSSH |
| 2144 | sp|Q8RWZ1|SUB\_ARATH | MSFTRWEVFFGLSVLALTMPFSAGVTNLRDVSAINNLYITLGAPSLHHWLAFGGDPCGEKWQGVVCDSSNITEIRIPGMKVGGGLSDTLADFSSIQVMDFSSNHISGTIPQALPSSIRNLSLSSNRFTGNIPFTLSFLSDLSELSLGSNLLSGEIPDYFQQLSKLTKLDLSSNILEGHLPSSMGDLASLKILYLQDNKLTGTLDVIEDLFLTDLNVENNLFSGPIPPNLLKIPNFKKDGTPFNTSIITPPPPPVVDPPPATHRAPPVPRIPPVSGVPPAPFAPFAPLQPQQHPPPSPPLVWSPPSSDNGGGDPWNSVSGQPTLQISPPSGSGSGKFWSTQRIILVVSSVAIIVLVSGLCVTLWRCCRSKIYNRYYSGARKDLQRPYFNKPPSQPTPTMGKVSREPMVKPFDGYGAGDRKYGYPMPQRAEESRRAMPPTSYYNKDVNTPQKPLQQPPRQFQSNDTASKRAAHFPPGLNSSSSATVFTIASLQQYTNNFSEENIIGEGSIGNVYRAELRHGKFLAVKKLSNTINRTQSDGEFLNLVSNVLKLKRGHILELLGYCNEFGQRLLVYEYCPNGSLQDALHLDRKLHKKLTWNVRINIALGASKALQFLHEVCQPPVVHQNFKSSKVLLDGKLSVRVADSGLAYMLPPRPTSQMAGYAAPEVEYGSYTCQSDVFSLGVVMLELLTGRRPFDRTRPRGHQTLAQWAIPRLHDIDALTRMVDPSLHGAYPMKSLSRFADIISRSLQMEPGFRPPISEIVQDLQHMI |
| 2145 | sp|Q5XIM7|SYK\_RAT | MLMQAAVRLVRGSLRQTSWAEWGQRELRLGQLAPFTTLRKDKPLSDRRSELKRRLKAEKKLAEKEAKQKELSEKQLNQTTAAAATNHTADNGVGAEEETLDPNQYYKIRSQAVQQLKVSGEDPYPHKFHVDISLTQFIQEYSHLQPGDHLTDITLKVAGRIHAKRASGGKLIFYDLRGEGVKLQVMANSRNYKSEEEFVHINNKLRRGDIIGVEGNPGKTKKGELSIVPREMTLLSPCLHMLPHLHFGLKDKETRYRQRYLDLILNDFVRQKFIIRSKIITYIRSFLDELGFLEIETPMMNIIPGGAVAKPFITYHNELDMNLYMRIAPELYHKMLVVGGIDRVYEIGRQFRNEGIDLTHNPEFTTCEFYMAYADYHDLMEITEKMLSGMVRSITGSYKITYHPDGPEGQAYEIDFTPPFRRISMVEELEKVLGVKLPETSLFETEETRKILDDICVARAVECPPPRTTARLLDKLVGEFLEVTCISPTFICDHPQIMSPLAKWHRCKEGLTERFELFVMKKEICNAYTELNDPVRQRQLFEEQAKAKAAGDDEAMFIDENFCTALEYGLPPTAGWGMGIDRVTMFLTDSNNIKEVLLFPAMKPEDKKETATATETPESTEASPSV |
| 2146 | sp|P00958|SYMC\_YEAST | MSFLISFDKSKKHPAHLQLANNLKIALALEYASKNLKPEVDNDNAAMELRNTKEPFLLFDANAILRYVMDDFEGQTSDKYQFALASLQNLLYHKELPQQHVEVLTNKAIENYLVELKEPLTTTDLILFANVYALNSSLVHSKFPELPSKVHNAVALAKKHVPRDSSSFKNIGAVKIQADLTVKPKDSEILPKPNERNILITSALPYVNNVPHLGNIIGSVLSADIFARYCKGRNYNALFICGTDEYGTATETKALEEGVTPRQLCDKYHKIHSDVYKWFQIGFDYFGRTTTDKQTEIAQHIFTKLNSNGYLEEQSMKQLYCPVHNSYLADRYVEGECPKCHYDDARGDQCDKCGALLDPFELINPRCKLDDASPEPKYSDHIFLSLDKLESQISEWVEKASEEGNWSKNSKTITQSWLKDGLKPRCITRDLVWGTPVPLEKYKDKVLYVWFDATIGYVSITSNYTKEWKQWWNNPEHVSLYQFMGKDNVPFHTVVFPGSQLGTEENWTMLHHLNTTEYLQYENGKFSKSRGVGVFGNNAQDSGISPSVWRYYLASVRPESSDSHFSWDDFVARNNSELLANLGNFVNRLIKFVNAKYNGVVPKFDPKKVSNYDGLVKDINEILSNYVKEMELGHERRGLEIAMSLSARGNQFLQENKLDNTLFSQSPEKSDAVVAVGLNIIYAVSSIITPYMPEIGEKINKMLNAPALKIDDRFHLAILEGHNINKAEYLFQRIDEKKIDEWRAKYGGQQV |
| 2147 | sp|Q3UZZ6|ST1D1\_MOUSE | MDNKLDVFRRELVDVEGIPLFWSIAEHWSQVESFEARPDDILISTYPKSGTTWVSEILDLIYNNGDAEKCKRDAIYKRVPFMELIIPGITNGVEMLNNMPSPRIVKTHLPVQLLPSSFWKNDCKIIYVARNAKDVVVSYYYFYQMAKIHPEPGTWEEFLEKFMAGQVSFGPWYDHVKSWWEKRKEYRILYLFYEDMKENPKCEIQKILKFLEKDIPEEILNKILYHSSFSVMKENPSANYTTMMKEEMDHSVSPFMRKGISGDWKNQFTVAQYEKFEEDYVKKMEDSTLKFRSEI |
| 2148 | sp|P49887|ST1E1\_CAVPO | MMDSSEHDYYEYFDEFRGILLYKQFIKYWDNVEAFQARPDDLVIAAYPKSGTTWISEVVCMIYAEGDVKKCRQDAIFNRVPFLECRNDKMMNGVKQLEEMNSPRIIKTHLPPRLLPASFWEKRCKMICICRNAKDVAVSYYYFFLMVANHPDPGSFPEFVEKFMQGQVPYGSWYDHVKSWWEKSTDPRILFIFYEDMKEDIRKEVLKLIHFLGRKPSEELVDKIIKHTSFQEMKNNPSTNYTMLPEEIMNQKVSPFMRKGISGDWKNHFTVALNESFDKHYQQQMKGSTLQLRTEI |
| 2149 | sp|Q8NFT2|STEA2\_HUMAN | MESISMMGSPKSLSETFLPNGINGIKDARKVTVGVIGSGDFAKSLTIRLIRCGYHVVIGSRNPKFASEFFPHVVDVTHHEDALTKTNIIFVAIHREHYTSLWDLRHLLVGKILIDVSNNMRINQYPESNAEYLASLFPDSLIVKGFNVVSAWALQLGPKDASRQVYICSNNIQARQQVIELARQLNFIPIDLGSLSSAREIENLPLRLFTLWRGPVVVAISLATFFFLYSFVRDVIHPYARNQQSDFYKIPIEIVNKTLPIVAITLLSLVYLAGLLAAAYQLYYGTKYRRFPPWLETWLQCRKQLGLLSFFFAMVHVAYSLCLPMRRSERYLFLNMAYQQVHANIENSWNEEEVWRIEMYISFGIMSLGLLSLLAVTSIPSVSNALNWREFSFIQSTLGYVALLISTFHVLIYGWKRAFEEEYYRFYTPPNFVLALVLPSIVILGKIILFLPCISRKLKRIKKGWEKSQFLEEGMGGTIPHVSPERVTVM |
| 2150 | sp|Q9EQT6|SYT13\_MOUSE | MVLSVPVIALGATLGTATSILALCGVTCLCRHMHPKKGLLPRDREPDPEKARPGVLQAAQQFNIKKSTEPVQPRPLLKFPDIYGPRPAVTAPEVINYADYTLETTEESAAPASPQAQSDSRLKRQVTEELSIRPQNGVVEDVCVMETWNPEKAASWNQAPKLHFRLDYDQKKAELFVTSLEAVTSDHEGGCDCYIQGSVAVKTGSVEAQTALKKRQLHTTWEEGLALPLGEEELPTATLTLTLRTCDRFSRHSVIGELRLGLDGASVPLGAAQWGELKTTAKEPSAGAGEVLLSISYLPAANRLLVVLIKAKNLHSNQSKELLGKDVSVKVTLKHQAQKLKKKQTKRAKHKINPVWNEMIMFELPDDLLRASSVELEVLGQGEEGPSCELGHCSLGLHASGSERSHWEEMLKNPRRQIAMWHQLHL |
| 2151 | sp|P29172|TAU\_BOVIN | MAEPRQEFDVMEDHAQGDYTLQDQEGDMDPGLKESPLQTPADDGSEEPGSETSDAKSTPTAEDATAPLVDEGAPGEQAAAQAPAEIPEGTAAEEAGIGDTSNLEDQAAGHVTQARMVSKGKDGTGPDDKKTKGADGKPGTKIATPRGAAPPGQKGQANATRIPAKTTPTPKTSPATMQVQKKPPPAGAKSERGESGKSGDRSGYSSPGSPGTPGSRSRTPSLPTPPTREPKKVAVVRTPPKSPSAAKSRLQAAPGPMPDLKNVKSKIGSTENLKHQPGGGKVQIINKKLDLSNVQSKCGSKDNIKHVPGGGSVQIVYKPVDLSKVTSKCGSLGNIHHKPGGGQVEVKSEKLDFKDRVQSKIGSLDNITHVPGGGNKKIETHKLTFRENAKAKTDHGAEIVYKSPVVSGDTSPRHLSNVSSTGSIDMVDSPQLATLADEVSASLAKQGL |
| 2152 | sp|Q01755|TCP11\_MOUSE | MPDVKERAARKEPGAAESASRESRGGNTRESASSARGTDRVGSTVARARPPSPQGPRRGAVKTAPRGPVGHGGLRTGPTSRCPQPSARAKLPSVTRGAPLPPSPGKGHLGGTPSSHRLGMTERVHDASKLDCQLEERSLSSSSLKGKVKDTMPSDFWEHLNEQLSAVPPDFSCALELLKEIKEILLSLLLPRQSRLKNEIEEALDMEFLQQQADRGDLNVSYLSKYILNMMVLLCAPIRDEAVQRLENISDPVRLLRGIFQVLGQMKMDMVNYTIQSLQPQLQEHSVQFERAQFQERLNKEPRLLNHTTKWLTQAATQLIAPSASSSDLQDCSSSAGPSPSDVAVPEPLSPAMVLSQGFLNLLTWDPENEEFPETLVADRPRLQELESQQSQLTILASVLLVASSFSDSGLFSSPQFVDKLKQITKSLVEDFNSRPEEVMQSVSEQVVEEVHQGLESMGLAALSSENTASLVGQLQNIAKKENCVRSVIDQRIHLFLKCCFVLGVQRSLLDLPGGLTLIEAELAELGQKFVSLTHHNQQVFAPYYTEILKTLISPAQTLATKGGSL |
| 2153 | sp|P16659|SYP\_ECOLI | MRTSQYLLSTLKETPADAEVISHQLMLRAGMIRKLASGLYTWLPTGVRVLKKVENIVREEMNNAGAIEVSMPVVQPADLWQESGRWEQYGPELLRFVDRGERPFVLGPTHEEVITDLIRNELSSYKQLPLNFYQIQTKFRDEVRPRFGVMRSREFLMKDAYSFHTSQESLQETYDAMYAAYSKIFSRMGLDFRAVQADTGSIGGSASHEFQVLAQSGEDDVVFSDTSDYAANIELAEAIAPKEPRAAATQEMTLVDTPNAKTIAELVEQFNLPIEKTVKTLLVKAVEGSSFPQVALLVRGDHELNEVKAEKLPQVASPLTFATEEEIRAVVKAGPGSLGPVNMPIPVVIDRTVAAMSDFAAGANIDGKHYFGINWDRDVATPEVADIRNVVAGDPSPDGQGRLLIKRGIEVGHIFQLGTKYSEALKASVQGEDGRNQILTMGCYGIGVTRVVAAAIEQNYDERGIVWPDAIAPFQVAILPMNMHKSFRVQELAEKLYSELRAQGIEVLLDDRKERPGVMFADMELIGIPHTIVLGDRNLDNDDIEYKYRRNGEKQLIKTGDIVEYLVKQIKG |
| 2154 | sp|P11983|TCPA\_MOUSE | MEGPLSVFGDRSTGEAVRSQNVMAAASIANIVKSSFGPVGLDKMLVDDIGDVTITNDGATILKLLEVEHPAAKVLCELADLQDKEVGDGTTSVVIIAAELLKNADELVKQKIHPTSVISGYRLACKEAVRYINENLIINTDELGRDCLINAAKTSMSSKIIGINGDYFANMVVDAVLAVKYTDARGQPRYPVNSVNILKAHGRSQIESMLINGYALNCVVGSQGMPKRIVNAKIACLDFSLQKTKMKLGVQVVITDPEKLDQIRQRESDITKERIQKILATGANVILTTGGIDDMYLKYFVEAGAMAVRRVLKRDLKHVAKASGASILSTLANLEGEETFEVTMLGQAEEVVQERICDDELILIKNTKARTSASIILRGANDFMCDEMERSLHDALCVVKRVLELKSVVPGGGAVEAALSIYLENYATSMGSREQLAIAEFARSLLVIPNTLAVNAAQDSTDLVAKLRAFHNEAQVNPERKNLKWIGLDLVHGKPRDNKQAGVFEPTIVKVKSLKFATEAAITILRIDDLIKLHPESKDDKHGSYENAVHSGALDD |
| 2155 | sp|Q8C0V1|TERB1\_MOUSE | MESEKPKKTQEMKTDLKLLLECLKYHMGNPLSQKEVLITIHSVCKQNSDAGIYFREIGGLMFIINLAKSSEQSLVKEAALYTLGSIAEENVYCQQSLCTSELFQDLTGLLTNDDSNTNLKRMSVYVLLVLVSNNRNGQTLVREVGCIEVLSQMFRTVLSNYELNLSDNSVFQSYLLWSSVCSTLCVCVNNPQNDENQMLCCSLFPCVNEWLMNCMRPEVIRPICSFIGLTLANNTHAQNCFVSSGGLDVLCQVLVQLESDSHNTLSSAKLAVIVTKTMDACITDNSAAFTVVLSKYHIVSTLLALLLHESLDSREKFSIILAIGHCTEDCEKNQYELLKNNGLPLMIQALTEFKNEDLSKAATYVLHNCKKITGKLSLSLGQNSFGENEIELKDISEKETLREHWKAAKEILCRIKQFEKGGKEEKQQNRSGHYKDNTPSMKVNIQTNLKRLCADSTGGTRAEDKDINQSRELRSYKPSEIMSKACANENQLTTRKKNTNPVHPFCKEKGQSKIVHETTPSCAQNLDKEKTFDQKDSVSQSSDQVLKHLPHTVKNRKQVPETDPFTLCLDIIDREVGIQATDSCSRMLKYTCSGCIVARKLLNSRNFSKFLHSCAYQCVHHKVIMEAEDKYKNELRKTFICAKKILLTPCRRRQLCKESTASEELKIVHQKPDSKKLPGLEAQALNTSIPEAMERRSPVPGQSGLHKKRRIRKDFTKEEVNYLFHGVKTMGNHWNSILWSFPFQKGRRAVDLAHKYHRLIKGPSCAAL |
| 2156 | sp|Q7M6U3|TEX14\_MOUSE | MSRGAPFPVPCPVLLGTFTDDSLEAQLHEYAKQGNCVKLKKILKKGVCVDAVNTQGQSALFVAALLGHVKLVDVLVDYGSDPNHRCFDGSTPVHAAAFSGNQWILSKLLTAGGDLRLHDEKGRNPQAWALTAGKDRSTQMVEFMQRCTSHMKAIIQGFSYDLLKKIDSPQRLIGSPPWFGSLIQGSPNSSPNRQLKPGIISAQNIYSFGFGKFYLTSGMQLTYPGSLPVIGEKEVVQADDEPTFSFFSGPYMVMTNLVWNRSRVTVKELNLPTRPHCSRLRLADLLIAEQEHSSNLRHPNLLQLMAVCLSRDLEKIRLVYERITVGTLFSVLHERRSQFPVLHMEVIVHLLLQVADALIYLHSRGFIHRSLSSYAVHIVSAGEARLTNLEYLTESQDSGAHRNVTRMPLPTQLYNWAAPEVVLQKAATVKSDIYSFSVIIQEILTDSIPWNGLDGSLVKETIALGNYLEADVRLPEPYYDIVKSGIHAKQKNRTMNLQDIRYILKNDLKEFIGAQKTQPTESPRGQSYEPHPDVNICLGLTSEYQKDPPDLDIKELKEMGSQPHSPTDHSFLTVKPTLAPQTLDSSLSAQKPDNANVPSPPAACLAEEVRSPTASQDSLCSFEINEIYSGCLTLGTDKEEECLGTAASPEGDRPNQGDELPSLEEELDKMERELHCFCEEDKSISEVDTDLLFEDDDWQSDSLGSLNLPEPTREAKGKTSSWSKTDEYVSKCVLNLKISQVMMQQSAEWLRKLEQEVEELEWAQKELDSQCSSLRDASLKFANAKFQPAVGPPSLAYLPPVMQLPGLKQPENGGTWLTLARSPGNEREFQEGHFSKKPEKLSACGWKPFTQVSEESRGDCSELNNQLPTLRGPGKQSTGEQLPSTQEARESLEKNTNQNSRSMASVSSEIYATKSRNNEDNGEAHLKWRLAVKEMAEKAVSGQLLLPPWNPQSSAPFESKVENESTPLPRPPIRGPESTEWQHILEYQRENDEPKGNTKFGKMDNSDCDKNKHSRWTGLQRFTGIRYPFFRNHEQPEQNEASQASCDTSVGTEKFYSTSSPIGDDFERFQDSFAQRQGYVEENFQIREIFEKNAEILTKPQFQAIQCAEDKQDETLGETPKELKEKNTSLTDIQDLSSITYDQDGYFKETSYKTPKLKHAPTSASTPLSPESISSAASHYEDCLENTTFHVKRGSTFCWNGQEAMRTLSAKFTTVRERAKSLESLLASSKSLPAKLTDSKRLCMLSETGSSNVSAAFVTSTHATKRKSLPRELAEATSQQHLDELPPPAQELLDEIEQLKQQQVSSLASHENTARDLSVTNKDKKHLEEQETNSSKDSSFLSSREIQDLEDTERAHSSLDEDLERFLQSPEENTALLDPTKGSTREKKNKDQDVVEQKRKKKESIKPERRESDSSLGTLEEDELKPCFWKRLGWSEPSRIIVLDQSDLSD |
| 2157 | sp|Q9FH40|TA14B\_ARATH | MTNSSSSKKQAQDQPETSEPTLKSLKTKMTKSDEKQKKLKDIEISVPIVYGNVAFWLGKKASEYQSHKWAVYVRGATNEDISVVVKKVVFQLHSSFNSPTRVIEEPPFEVSESGWGEFEIAMTLHFHSDVCDKPLSLYHHLKLYPEDESGPLTMKKPVVVESYDEIVFPDPSESFLARVQNHPALTFPRLPSGYNLPAPMQVEDTGKKKRGDTKDHSLGQWFMSFSEADELLQLAAARQQVQAHIAKLRRQISLLEGQNQTVKTGSDL |
| 2158 | sp|P68369|TBA1A\_MOUSE | MRECISIHVGQAGVQIGNACWELYCLEHGIQPDGQMPSDKTIGGGDDSFNTFFSETGAGKHVPRAVFVDLEPTVIDEVRTGTYRQLFHPEQLITGKEDAANNYARGHYTIGKEIIDLVLDRIRKLADQCTGLQGFLVFHSFGGGTGSGFTSLLMERLSVDYGKKSKLEFSIYPAPQVSTAVVEPYNSILTTHTTLEHSDCAFMVDNEAIYDICRRNLDIERPTYTNLNRLIGQIVSSITASLRFDGALNVDLTEFQTNLVPYPRIHFPLATYAPVISAEKAYHEQLSVAEITNACFEPANQMVKCDPRHGKYMACCLLYRGDVVPKDVNAAIATIKTKRTIQFVDWCPTGFKVGINYQPPTVVPGGDLAKVQRAVCMLSNTTAIAEAWARLDHKFDLMYAKRAFVHWYVGEGMEEGEFSEAREDMAALEKDYEEVGVDSVEGEGEEEGEEY |
| 2159 | sp|O15056|SYNJ2\_HUMAN | MALSKGLRLLGRLGAEGDCSVLLEARGRDDCLLFEAGTVATLAPEEKEVIKGQYGKLTDAYGCLGELRLKSGGTSLSFLVLVTGCTSVGRIPDAEIYKITATDFYPLQEEAKEEERLIALKKILSSGVFYFSWPNDGSRFDLTVRTQKQGDDSSEWGNSFFWNQLLHVPLRQHQVSCCDWLLKIICGVVTIRTVYASHKQAKACLVSRVSCERTGTRFHTRGVNDDGHVSNFVETEQMIYMDDGVSSFVQIRGSVPLFWEQPGLQVGSHHLRLHRGLEANAPAFDRHMVLLKEQYGQQVVVNLLGSRGGEEVLNRAFKKLLWASCHAGDTPMINFDFHQFAKGGKLEKLETLLRPQLKLHWEDFDVFTKGENVSPRFQKGTLRMNCLDCLDRTNTVQSFIALEVLHLQLKTLGLSSKPIVDRFVESFKAMWSLNGHSLSKVFTGSRALEGKAKVGKLKDGARSMSRTIQSNFFDGVKQEAIKLLLVGDVYGEEVADKGGMLLDSTALLVTPRILKAMTERQSEFTNFKRIRIAMGTWNVNGGKQFRSNVLRTAELTDWLLDSPQLSGATDSQDDSSPADIFAVGFEEMVELSAGNIVNASTTNKKMWGEQLQKAISRSHRYILLTSAQLVGVCLYIFVRPYHVPFIRDVAIDTVKTGMGGKAGNKGAVGIRFQFHSTSFCFICSHLTAGQSQVKERNEDYKEITQKLCFPMGRNVFSHDYVFWCGDFNYRIDLTYEEVFYFVKRQDWKKLLEFDQLQLQKSSGKIFKDFHEGAINFGPTYKYDVGSAAYDTSDKCRTPAWTDRVLWWRKKHPFDKTAGELNLLDSDLDVDTKVRHTWSPGALQYYGRAELQASDHRPVLAIVEVEVQEVDVGARERVFQEVSSFQGPLDATVVVNLQSPTLEEKNEFPEDLRTELMQTLGSYGTIVLVRINQGQMLVTFADSHSALSVLDVDGMKVKGRAVKIRPKTKDWLKGLREEIIRKRDSMAPVSPTANSCLLEENFDFTSLDYESEGDILEDDEDYLVDEFNQPGVSDSELGGDDLSDVPGPTALAPPSKSPALTKKKQHPTYKDDADLVELKRELEAVGEFRHRSPSRSLSVPNRPRPPQPPQRPPPPTGLMVKKSASDASISSGTHGQYSILQTARLLPGAPQQPPKARTGISKPYNVKQIKTTNAQEAEAAIRCLLEARGGASEEALSAVAPRDLEASSEPEPTPGAAKPETPQAPPLLPRRPPPRVPAIKKPTLRRTGKPLSPEEQFEQQTVHFTIGPPETSVEAPPVVTAPRVPPVPKPRTFQPGKAAERPSHRKPASDEAPPGAGASVPPPLEAPPLVPKVPPRRKKSAPAAFHLQVLQSNSQLLQGLTYNSSDSPSGHPPAAGTVFPQGDFLSTSSATSPDSDGTKAMKPEAAPLLGDYQDPFWNLLHHPKLLNNTWLSKSSDPLDSGTRSPKRDPIDPVSAGASAAKAELPPDHEHKTLGHWVTISDQEKRTALQVFDPLAKT |
| 2160 | sp|Q96BZ9|TBC20\_HUMAN | MALRSAQGDGPTSGHWDGGAEKADFNAKRKKKVAEIHQALNSDPTDVAALRRMAISEGGLLTDEIRRKVWPKLLNVNANDPPPISGKNLRQMSKDYQQVLLDVRRSLRRFPPGMPEEQREGLQEELIDIILLILERNPQLHYYQGYHDIVVTFLLVVGERLATSLVEKLSTHHLRDFMDPTMDNTKHILNYLMPIIDQVNPELHDFMQSAEVGTIFALSWLITWFGHVLSDFRHVVRLYDFFLACHPLMPIYFAAVIVLYREQEVLDCDCDMASVHHLLSQIPQDLPYETLISRAGDLFVQFPPSELAREAAAQQQAERTAASTFKDFELASAQQRPDMVLRQRFRGLLRPEDRTKDVLTKPRTNRFVKLAVMGLTVALGAAALAVVKSALEWAPKFQLQLFP |
| 2161 | sp|Q8BLY2|SYTC2\_MOUSE | MAAQALAAQAVASRLQRQEEDIRWLCAEVQRLRDEQLRGPERGQAEGPRLTREVAQLQAENRDLHQRLCGLRLRLAEQRRTEAGRAAAHEPPTQNQEKDTKKKRLKQSEPGREVKQPNFIKERLQLFETLKTDHQLLPATQEKKNTNNVISVRVAGGKTVQGERWKTTPYQVAAGISKELAEHTVIAKVNGVLWDLDRPLEGDSTVELLMFDNEEAQAVYWHSSAHILGEAMELYYGGHLCYGPPIENGFYYDMFIEDRVVSSTELSALENICKTIIKEKQPFERLEVSKDTLLEMFKYNKFKCRILKEKVDTPTTTVYRCGPLIDLCKGPHVRHTGKIKAIKIFKNSSTYWEGNPEMETLQRIYGISFPDSKMMKDWEKFQEEAKSRDHRKIGKEQELFFFHDLSPGSCFFLPRGAFIYNALMDFIREEYHKRNFTEVLSPNMYNSKLWETSGHWQHYSNNMFTFDVEKDTFALKPMNCPGHCLMFAHRPRSWREMPVRFADFGVLHRNELSGTLSGLTRVRRFQQDDAHIFCMVEQIEEEIKGCLHFLQSVYSTFGFSFQLNLSTRPEHFLGEIEIWDEAERQLQNSLVEFGKPWKINPGDGAFYGPKIDIKIKDAIGRYHQCATIQLDFQLPIRFNLTYVSKDGDDKNRPVIIHRAILGSVERMIAILSENYGGKWPLWLSPRQVMVIPVGPACENYALQVSKECFEEGFMADVDLDDSCTLNKKIRNAQLAQYNFILVVGEKEKINNAVNVRTRDNKIHGEISIASVIEKLKNLKKSRTLNAEEDF |
| 2162 | sp|P23193|TCEA1\_HUMAN | MEDEVVRFAKKMDKMVQKKNAAGALDLLKELKNIPMTLELLQSTRIGMSVNAIRKQSTDEEVTSLAKSLIKSWKKLLDGPSTEKDLDEKKKEPAITSQNSPEAREESTSSGNVSNRKDETNARDTYVSSFPRAPSTSDSVRLKCREMLAAALRTGDDYIAIGADEEELGSQIEEAIYQEIRNTDMKYKNRVRSRISNLKDAKNPNLRKNVLCGNIPPDLFARMTAEEMASDELKEMRKNLTKEAIREHQMAKTGGTQTDLFTCGKCKKKNCTYTQVQTRSADEPMTTFVVCNECGNRWKFC |
| 2163 | sp|P46677|TAF1\_YEAST | MVKQQGSGKTNLANEDEAYEAIFGGEFGSLEIGSYIGGDEGANSKDYTEHLPDAVDFEDEDELADDDDDLPEESDANLHPAMMTMGAYDDVNENGAVLGIDSNSLNMQLPEINGDLSQQFILEDDGGTPATSNALFMGMDANEIHLATETGVLDGSGANEIGHSQLSIGGVNGNDMSINGGFIMEPDMSDGKHKKATKLDLINHEKYLLKKYFPDFEKGKILKWNKLIYRRSVPYHWHSEISRVKKPFMPLNLKFKVQQDDKRLFNSRTISYVAPIYQGKNNLLQSNSSASRRGLIHVSIDELFPIKEQQKKRKIIHDEKTISEDLLIATDDWDQEKIINQGTSSTATLADSSMTPNLKFSGGYKLKSLIEDVAEDWQWDEDMIIDAKLKESKHAELNMNDEKLLLMIEKTNNLAQQKQQLDSSNLILPLNETILQQKFNLSNDDKYQILKKTHQTKVRSTISNLNIQHSQPAINLQSPFYKVAVPRYQLRHFHRENFGSHIRPGTKIVFSKLKARKRKRDKGKDVKESFSTSQDLTIGDTAPVYLMEYSEQTPVALSKFGMANKLINYYRKANEQDTLRPKLPVGETHVLGVQDKSPFWNFGFVEPGHIVPTLYNNMIRAPVFKHDISGTDFLLTKSSGFGISNRFYLRNINHLFTVGQTFPVEEIPGPNSRKVTSMKATRLKMIIYRILNHNHSKAISIDPIAKHFPDQDYGQNRQKVKEFMKYQRDGPEKGLWRLKDDEKLLDNEAVKSLITPEQISQVESMSQGLQFQEDNEAYNFDSKLKSLEENLLPWNITKNFINSTQMRAMIQIHGVGDPTGCGEGFSFLKTSMKGGFVKSGSPSSNNNSSNKKGTNTHSYNVAQQQKAYDEEIAKTWYTHTKSLSISNPFEEMTNPDEINQTNKHVKTDRDDKKILKIVRKKRDENGIIQRQTIFIRDPRVIQGYIKIKEQDKEDVNKLLEEDTSKINNLEELEKQKKLLQLELANLEKSQQRRAARQNSKRNGGATRTENSVDNGSDLAGVTDGKAARNKGKNTTRRCATCGQIGHIRTNKSCPMYSSKDNPASPK |
| 2164 | sp|Q8IWB6|TEX14\_HUMAN | MSRAVRLPVPCPVQLGTLRNDSLEAQLHEYVKQGNYVKVKKILKKGIYVDAVNSLGQTALFVAALLGLRKFVDVLVDYGSDPNHRCFDGSTPVHAAAFSGNQWILSKLLDAGGDLRLHDERGQNPKTWALTAGKERSTQIVEFMQRCASHMQAIIQGFSYDLLKKIDSPQRLVYSPSWCGGLVQGNPNGSPNRLLKAGVISAQNIYSFGFGKAMPWFQFYLTGATQMAYLGSLPVIGEKEVIQADDEPTFSFFSGPYMVMTNLVWNGSRVTVKELNLPTHPHCSRLRLADLLIAEQEHSSKLRHPYLLQLMAVCLSQDLEKTRLVYERITIGTLFSVLHERRSQFPVLHMEVIVHLLLQISDALRYLHFQGFIHRSLSSYAVHIISPGEARLTNLEYMLESEDRGVQRDLTRVPLPTQLYNWAAPEVILQKAATVKSDIYSFSMIMQEILTDDIPWKGLDGSVVKKAVVSGNYLEADVRLPKPYYDIVKSGIHVKQKDRTMNLQDIRYILKNDLKDFTGAQRTQPTESPRVQRYGLHPDVNVYLGLTSEHPRETPDMEIIELKEMGSQPHSPRVHSLFTEGTLDPQAPDPCLMARETQNQDAPCPAPFMAEEASSPSTGQPSLCSFEINEIYSGCLILEDDIEEPPGAASSLEADGPNQVDELKSMEEELDKMEREACCFGSEDESSSKAETEYSFDDWDWQNGSLSSLSLPESTREAKSNLNNMSTTEEYLISKCVLDLKIMQTIMHENDDRLRNIEQILDEVEMKQKEQEERMSLWATSREFTNAYKLPLAVGPPSLNYIPPVLQLSGGQKPDTSGNYPTLPRFPRMLPTLCDPGKQNTDEQFQCTQGAKDSLETSRIQNTSSQGRPRESTAQAKATQFNSALFTLSSHRQGPSASPSCHWDSTRMSVEPVSSEIYNAESRNKDDGKVHLKWKMEVKEMAKKAATGQLTVPPWHPQSSLTLESEAENEPDALLQPPIRSPENTDWQRVIEYHRENDEPRGNGKFDKTGNNDCDSDQHGRQPRLGSFTSIRHPSPRQKEQPEHSEAFQASSDTLVAVEKSYSHQSMQSTCSPESSEDITDEFLTPDGEYFYSSTAQENLALETSSPIEEDFEGIQGAFAQPQVSGEEKFQMRKILGKNAEILPRSQFQPVRSTEDEQEETSKESPKELKEKDISLTDIQDLSSISYEPDSSFKEASCKTPKINHAPTSVSTPLSPGSVSSAASQYKDCLESITFQVKTEFASCWNSQEFIQTLSDDFISVRERAKKLDSLLTSSETPPSRLTGLKRLSSFIGAGSPSLVKACDSSPPHATQRRSLPKVEAFSQHHIDELPPPSQELLDDIELLKQQQGSSTVLHENTASDGGGTANDQRHLEEQETDSKKEDSSMLLSKETEDLGEDTERAHSTLDEDLERWLQPPEESVELQDLPKGSERETNIKDQKVGEEKRKREDSITPERRKSEGVLGTSEEDELKSCFWKRLGWSESSRIIVLDQSDLSD |
| 2165 | sp|O95988|TCL1B\_HUMAN | MASEASVRLGVPPGRLWIQRPGIYEDEEGRTWVTVVVRFNPSRREWARASQGSRYEPSITVHLWQMAVHTRELLSSGQMPFSQLPAVWQLYPGRKYRAADSSFWEIADHGQIDSMEQLVLTYQPERKD |
| 2166 | sp|Q9UMR3|TBX20\_HUMAN | MEFTASPKPQLSSRANAFSIAALMSSGGSKEKEATENTIKPLEQFVEKSSCAQPLGELTSLDAHGEFGGGSGSSPSSSSLCTEPLIPTTPIIPSEEMAKIACSLETKELWDKFHELGTEMIITKSGRRMFPTIRVSFSGVDPEAKYIVLMDIVPVDNKRYRYAYHRSSWLVAGKADPPLPARLYVHPDSPFTGEQLLKQMVSFEKVKLTNNELDQHGHIILNSMHKYQPRVHIIKKKDHTASLLNLKSEEFRTFIFPETVFTAVTAYQNQLITKLKIDSNPFAKGFRDSSRLTDIERESVESLIQKHSYARSPIRTYGGEEDVLGDESQTTPNRGSAFTTSDNLSLSSWVSSSSSFPGFQHPQSLTALGTSTASIATPIPHPIQGSLPPYSRLGMPLTPSAIASSMQGSGPTFPSFHMPRYHHYFQQGPYAAIQGLRHSSAVMTPFV |
| 2167 | sp|P42286|THR\_DROME | MSTDIATQLKGSRSDVEKVRKTVEAKFRELSGDGLPLRYEVNVLRHICLALKDNLHQNSDLYCDIMGIMLPRVVPCEEKPSLWEAHLSSLRYIHHGLFHQRSIEACQKLYNLIRQQPCRLQEESDYKIYLDIHLTHFNGFHVLLQKQKLPLEATSQLCYALESLGDLFAAMTQRQISLCATLLVQLNESLFGKRSRSFFKSLSFLPSESLAKMFNALLMLLASSTSSNLANLFPECLSLTLALVQIDMFSPQSNQQMSLQLLRMSKELFRQESNLCYALQLMYYYIKLIFVREPTGDFKRTYIDLSSKFQHFFEHKVASHAKEQWLADFLVAIQLLQVLIHQSNSKLQSPFQIFWQQFDGESSPEIYTAHFQLLQTCASLAVNITRSPLGCSCSHEACKSVRRHCILAYGLCALDAYINWKPAAEQRANVSPHKPLLGVVKYSMDVAKTMKCLGPTSVEIIKLVRQLTYVADQVTCPEQMSVLLPLLEPLQKLRPLVADQDMSSLLRRLFKASSHCGDSNIACRIQASYLASITNPARLRSQVCLYYHNLGKKGTEIKRCVYEWHESTPLPFPLTPDQKKQLYDTDFFALLHYLRSPSTAHMESLIRCRTSDYHLVLLARQMRKDDSISKKCIEVHDKLRQQRSLSRMDNLCLGHASVGLLLDALEAQKTKVSTKEITENMFEELLLSKNLWQMNIQREQRLVNYASEAISAFSNFFDRADQEPLSANETSIDWEALIDDAIATANALSSMGYQSEEDDAWLLLLRMGRLLEDRFTYLRALNHFLSQNEVSSRLNLKLGEEVEVAEELLDDLWPQLKNGKFFKRQQTTVMLCFCHLASYYARMECYSHAQLLLLHVEQLREEFPERQGKSDIVLLTLQTVRFRIGYQQRKPTNCRLPTPLRQLDILLDNVRSFCNLSSLDGGSLQLLLSTLVRESTECSANRLSERLSFSNIALHLVLQSGLALRAIEVFLAWLWTNLQMESFDKAQSKLRLIEHCLGIKQLNPTSRPEKEAIKDVAISDLASNMHLLQLVEPIRKQQLLNMASPNLLKMRPHSPNPQLDLDRYITLDVAPANLRENSQLQCLYFVTGCLHARLRFLQRNSEQLEEFYGRAHNWMQEKPPMSSALYPMLHAQQLYHLNYLRFARKHVEAISTAQLGLKMRSRAVDINFEYNFLAQLKTAQLELKPVGQDKPQVKILRRALVFNHSPEDKKRTATGSVSAVKNTASKVKQSAKKAPRFRIYEELELRPPSATSCSSSGGSGTENTPPSDHVDLNACQAIEISDDDDSPLVSTKKTQPKSREKAKPKATSKACKVLTLDNSLEIVETPTITTSTRSTRARLRQPVETPKTATLSSKRTRRQVLEAQAPETESISTRTRHRH |
| 2168 | sp|Q5HZG4|TAF3\_MOUSE | MCESYSRSLLRVSVAQICQALGWDSVQLSACHLLTDVLQRYLQQLGRGCHRYSELYGRTDPILDDVGEAFQLMGVNLHELEDYIHNIEPVTFPHQIPSFPVSKNNVLQFPQPGSKDAEERKDYIPDYLPPIVSSQEEEEEEQVPTDGGTSAEAMQVPLEEDDEMEEEEVINDENFLGKRPLDSPEVEEMPSMKRPRLLSTKGDSLDVVLLEAREPLSSINPQKTPPVLSPVRVQDRADLAPPSPQPPMLAPFAKSQLPIAKPLETKSFTPKTKTKASSPGQKTKSPKAALSPARLGSPIRSPKTIPKEKKSPGRSKSPKSPKSPKIVAHVPQTPVRPETPNRTPSAMVVEKTVKETIPVMKPTQTPPEVVKLNIEMQPKKPVVTDKTIDDSIDAVIARACAEREPDPFEFSSGSESEGDTFTSPKRISGSECATPKASTSSNNFTKSLATPLPLSSGTSSSDNSWTMDASIDEVVRKAKLGAPSNMPPTFPYISSPSISPPTPEPLHKGYEEKAKLPSSVDVKKKLKKELKTKLKKKEKQRDRERERERNKERSKEKDKMREREKEKEAGKELKYPWRELMKDEDSDPYKFKIKEFEDIDAAKVRLKDGIVRREREKHKDKKKDRERSKREKDKRERERLKEKNREDKIKAPPTQLVLPPKEMALPLFSPSAVRVPAMLPAFSPMLPEKLFEEKEKPKEKERKKDKKEKKKKKEKEKEKEKKEREREKERREREKREKEKEKHKHEKIKVEPVIPAPSPVIPRLTLRVGAGQDKIVISKVVPAPEAKPAPSLNRPKTPPPAPVPIPVRVSPTPLQPPLLTQAAVCPALMPSPAPALSGIGSAKAPVRSVVTETVSTYVIRDEWGNQIWICPGCNKPDDGSPMIGCDDCDDWYHWPCVGIMAAPPEEMQWFCPKCANKIKKDKKHKKRKHRAH |
| 2169 | sp|P01831|THY1\_MOUSE | MNPAISVALLLSVLQVSRGQKVTSLTACLVNQNLRLDCRHENNTKDNSIQHEFSLTREKRKHVLSGTLGIPEHTYRSRVTLSNQPYIKVLTLANFTTKDEGDYFCELQVSGANPMSSNKSISVYRDKLVKCGGISLLVQNTSWMLLLLLSLSLLQALDFISL |
| 2170 | sp|P24329|THTR\_RAT | MVHQVLYRALVSTKWLAESIRSGKVGPSLRVLDASWYSPGTRQARKEYQERHVPGASFFDIEECRDTTSPYEMMLPSEAHFGDYVGNLGISNDTHVVVYDGDDLGSFYAPRVWWMFRVFGHRTVSVLNGGFRNWLKEGHPVTSEPSRPEPAVFKATLNRSLLKTYEQVLENLQSKRFQLVDSRAQGRYLGTQPEPDAVGLDSGHIRGSVNVPFMNFLTEDGFEKSPEELRAIFQDKKVDLSQPLIATCRKGVTACHIALAAYLCGKPDVAVYDGSWSEWFRRAPPETRVSQGKSGKA |
| 2171 | sp|Q3IWB0|TALY\_RHOS4 | MLAMSPPKPAVELDRHIDLDQAHAVASGGARIVLAPPARDRCRASEARLGAVIREARHVYGLTTGFGPLANRLISGENVRTLQANLVHHLASGVGPVLDWTTARAMVLARLVSIAQGASGASEGTIARLIDLLNSELAPAVPSRGTVGASGDLTPLAHMVLCLQGRGDFLDRDGTRLDGAEGLRRGRLQPLDLSHRDALALVNGTSAMTGIALVNAHACRHLGNWAVALTALLAECLRGRTEAWAAALSDLRPHPGQKDAAARLRARVDGSARVVRHVIAERRLDAGDIGTEPEAGQDAYSLRCAPQVLGAGFDTLAWHDRVLTIELNAVTDNPVFPPDGSVPALHGGNFMGQHVALTSDALATAVTVLAGLAERQIARLTDERLNRGLPPFLHRGPAGLNSGFMGAQVTATALLAEMRATGPASIHSISTNAANQDVVSLGTIAARLCREKIDRWAEILAILALCLAQAAELRCGSGLDGVSPAGKKLVQALREQFPPLETDRPLGQEIAALATHLLQQSPV |
| 2172 | sp|Q02776|TIM50\_YEAST | MLSILRNSVRLNSRALRVVPSAANTLTSVQASRRLLTSYSSFLQKETKDDKPKSILTDDMLFKAGVDVDEKGQGKNEETSGEGGEDKNEPSSKSEKSRRKRQTSTDIKREKYANWFYIFSLSALTGTAIYMARDWEPQESEELKKDIDNGYTLSLMYKRFKARFNSMFTYFQEPPFPDLLPPPPPPPYQRPLTLVITLEDFLVHSEWSQKHGWRTAKRPGADYFLGYLSQYYEIVLFSSNYMMYSDKIAEKLDPIHAFVSYNLFKEHCVYKDGVHIKDLSKLNRDLSKVIIIDTDPNSYKLQPENAIPMEPWNGEADDKLVRLIPFLEYLATQQTKDVRPILNSFEDKKNLAEEFDHRVKKLKDKFYGDHKSGGNWAMTALGLGNSLGGSTKFPLDLIHEEGQKNYLMFMKMIEEEKEKIRIQQEQMGGQTFTLKDYVEGNLPSPEEQMKIQLEKQKEVDALFEEEKKKKKIAESK |
| 2173 | sp|P13485|TAGF\_BACSU | MSLVVDTNKRKQKGKSFYTEEQKKVMIENTVIKCILKSLKNNLGSLELLISIDSEHQFLEDYQLFLKLKERRSGTESEFPLQNTGSLEYKTEINAHVLPMPVEMGQTYDFYVEFRKKYEDAEQEPLLKRLSAEVNSIERAFHVDQTTELLILPYTTDKGNFSIKVKREAKIIRFDQIEISSEEISITGYAGYLSSENQYRIKNLNLILKKGGETPIEEKFPIKLERKTHGLENMRADGFVPELYDFEVKVPLKEIPFSNEKRYVYRLFMEYICNDDEGTDIQFNSTALVLGDRKNKLKGLVSIIKTNNAPVRYEVFKKKKKQTLGIRVNDYSLKTRMKYFIKGKKKRLVSKIKKITKMRNKLITKTYKSLFMMASRMPVKRKTVIFESFNGKQYSCNPRAIYEYMRENHPEYKMYWSVNKQYSAPFDEKGIPYINRLSLKWLFAMARAEYWVVNSRLPLWIPKPSHTTYLQTWHGTPLKRLAMDMEEVHMPGTNTKKYKRNFIKEASNWDYLISPNGYSTEIFTRAFQFNKTMIESGYPRNDFLHNDNNEETISLIKSRLNIPRDKKVILYAPTWRDDQFYAKGRYKFDLDLDLHQLRQELGNEYIVILRMHYLVAENFDLGPFEGFAYDFSAYEDIRELYMVSDLLITDYSSVFFDFANLKRPMLFFVPDIETYRDKLRGFYFDFEKEAPGPLVKTTEETIEAIKQISSPDYKLPVSFGPFYDKFCYLESGRSSEKVVNTVFKAE |
| 2174 | sp|O88978|TILB\_MOUSE | MGRITEDLIRRNAEHNDCVIFSLEELSLHQQEIERLEHIDKWCRDLKILYLQNNLIGKIENVSKLKKLEYLNLALNNIERIENLEGCEWLTKLDLTVNFIGELSSVKTLTHNIHLKELFLMGNPCADFDGYRQFVVVTLQQLKWLDGKEIERSERIQALQNYTSVEQQIREQEKAYCLRRAKEKEEAQRKLEEENESEDKKKSSTGFDGHWYTDIHTACPSATENQDYPQVPETQEEQHNTKESDDIEDDLAFWNKPSLFTPESRLETLRHMEKQRKAQDKLSEKKKKAKPPRTLITEDGKVLNVNEAKLDFSLKDDEKHNQIILDLAVYRYMDTSLIEVDVQPTYVRVMVKGKPFQLALSTEVQPDRSSAKRSQTTGHLLICMPKVGEMITGGQRTPTSVKTTSTSSREQTNPRKKQIERLEVDPSKHSCPDVSTIVQEKRHRPKRMESQPRDEPSEEDPDFEDNPEVPPLI |
| 2175 | sp|F1RRV3|THYG\_PIG | MALALWVFALLGSACLVSANIFEYQVDAQPLRPCELQRERAFLKRADYVPQCAEDGSFQTVQCKKDGGSCWCVDADGREVPGSRQPGRPVACLSFCQLQKQQILLSSYINSTATSYLPQCQDSGAYAPVQCDVRREQCWCVDAEGMEVYGTRRLGRPARCPGSCEIRNRRLLHGVGDKSPPQCSADGTFLPVQCKFVNTTDMMFFDLVHSYNRFPDAFVTFSSFRSRFPEVSGYCHCADSQGRELAGTGLELLLDEIYDTVFAGLDLASSFTETTLYRILQRRFLAVQLVTSGRFRCPTKCEVERFAATSFGHPYVPSCGRDGEYQAGQCQQEGLCWCVDAQGQEIPGTRRPSEPLSCAEGQSCPSERRRALSRLHLGPSGYSGQRGSFLAAERGPVSQTVPSFAASCPLPLKELFVESGILQPVVQGQKKEVTAATESLLKEGLRGIFPSRELARLALQFTANPKRLQQNLFGGRFLANVGQFNLSGALGTRGTFNFSHFFQQLGLPGFQKRQALADPAKSLSVGLDSNPATEAPEALKMGVAMNKTVVGSFGFEVNLQENRNALTFLSSLLELPEFLLFLQHAISVPEDIARDLGDVMEMALSSQGCEQTPGSLFVPSCTAEGSYEDVQCFAGECWCVDARGRELAGSRARGGRPRCPTACEKQRERMQSLLGRQPAGSSVFVPSCTREGHFLPVQCFSSDCYCVDADGQPIPGTRTAPGEPKQCPTPCQLQAEQAFLGTVRGLISNPSEPPVLSSIYIPQCSASGQWRRVQCDGPPEQAFEWYERWGAQSRSGQELTPAELLMKIMSYREAASGSFRLFIQNLYEAGQQGIFPGLARYSSLQDVPLAVLEGNLTQATGNILLEPYLFWQILNGQLPRYPGPYSDFSAPLAHLDLRSCWCVDEAGRKLEGTQTEPSKVPACPGSCEEVKLRVLQFIKEAEEIVMVSNSSQFPLGESFLAAKGIRLTDEELALPPLSPSRETFLEKFLSGSDYAIRLAAQSTFSFYQRRRVALSDAPRTSGPLQPYPYVPQCDALGSWEPVQCHAATGHCWCVDGEGAYLPASLAARSPQVLQCPTPCETSRVRGLLSAWKQAGSQVRPSPKDLFIPACTETGEFARLQASEASTWCVDPASGEAMPPGTNSSAPCPGLCEVLQRGVPSRRASPGTTPACRAEDGGFAPVQCDPAQGSCWCVLGSGEEVPGTRVAGSQPACERPQLWQTIQTRGQFQLQLPPGKVCSADYAGLLPTFQVVILDELTARGFCRIQVTTARTPVSIPVCDDSTVRVGCLSLDRLGVNVTWTLRLEDAPPASLPDLRDIEEALAGKDLVGRFADLIQSGTFQLHLDSRTFPADPSIHFLQGNSLGTSPRTRFGCVEGSRQVPATSNTSQDPLGCVRCPEGSYFQEEQCIPCPAGFYQEQTGSLACAPCPAGTTTTSVGAFSQTHCVTACQRDEAGLQCDQDGQYRASQRDRASGKAFCVDSEGRRLPWSETQAPLVDAQCLMMRKFEKLPESKVIFTADVAVLGSIVPDSESSLMQCLADCARDEACSFLTVSLEGSEGSCDFYAWTSDNIACTSSGQEEDALGTSKATSLGSLTCQVKVRPGDGVAPAVYLKKGQEFATIGQKRFEQTGFQNALSGLYSPVVFSASGASLTEAHLFCLLACDRDSCCDGFILTQVQGGPIICGLLSSPDVLLCHVRDWRDPSEAQADATCPGVTYDQDSRQGTLRLGGQEFKSLTPREGARDTFTSFQQVYLWKDSDMGSRSESMGCRRDMQPRPESPEETDLTAELFSPVDLNQVIVSENRSLPSQQHRLFKHLFSLQQAHLWCLSRCVQEPSFCQLAEITDSSPLYLTCTLYPEAQVCDDVMEASPRGCRRILPRRPNALFQRRVVLQDRVKNFYTRLPFQKLTGLSIRHKVPMADKAISSGFFECERLCDVDPCCTGFGFLNVSQLKGGEVTCLTLNSLGLQTCSEENGGSWRLLACGSPDTEVRTYPFGWYQKPAVQNDAPSFCPSAALPPVPEKVALDSWQPLPPSSVVVDPSIRNFDVAHISTAAVGDFSAARERCLLECSRHQACLVTTLQTRPGAVRCMFYADTQSCTHSLQAQNCQLLLREEATHIYRKPDIPLPGLGSSAPTVTIATHGQLLGTSQAIQLGASWKQVDQFLGVPYAAPPLAESRFRAPEPLNWTGTWDATKPRASCWQPGIRPATAPGVSEDCLYLSVFVPQSLTPNSSVLVFFHNGAEGPLAMAVDGSFLAAVGNLIVVTASYRTGVFGFLSSGSSEVSGNWGLLDQVAALTWVQTHIGVFGGDPRRVALAADRGGADVAGIHLLTSRATNSRLFRRAVLMGGSVLSPAAVIRPDRAQQQAAALAKEVGCPPRPSQKWYPASAGACQPPNDAQMQLLAVSGPFHYWGPVVDGQLLREAPARALQRPPRAKLDLLIGSSQDDGLIDRAKAVKRFEESQGRTSSKTAFYQALQNSLGGEAGDPGVQAAATWYYSLEHDTDDYASFSRALEAATRDYFIICPVIDMASHWARTARGNVFMYHAPESYSHGSLELLADVRYAFGLPFYPAYEGQFTQEEKSLSLKIMQYFSNFVRSGNPNYPHEFSRKAPEFAAPWPDFVPGDGAESYKELSVLLPNRQGLKKADCSFWSKYILSLKASADEAEDGPLAESEEEDRPGLTEDLLGLPELASKSYSK |
| 2176 | sp|Q7TNV1|TLC3B\_MOUSE | MLTPMVAGGVVFPGLFLLSKNTLQRLPQLRWEEADAVIVSARLVSSVQAIMASTAGYIVSTSCKHIIDDQHWLSSAYTQFAVPYFIYDIYAMFLCHWHKHQVKGHGGEDGTPRALGSTWAVVRGYLHKEFLMVLHHAAMVLVCFPLSVVWRQGKGDFFLGCMLMAEVSTPFVCLGKILIQYKQQHTLLHKVNGALMLLSFLCCRVLLFPYLYWAYGRHAGLPLLSVPMAIPAHVNLGAALLLAPQLYWFFLICRGACRLFRPRGSPPPSPCQTQD |
| 2177 | sp|O35235|TNF11\_MOUSE | MRRASRDYGKYLRSSEEMGSGPGVPHEGPLHPAPSAPAPAPPPAASRSMFLALLGLGLGQVVCSIALFLYFRAQMDPNRISEDSTHCFYRILRLHENADLQDSTLESEDTLPDSCRRMKQAFQGAVQKELQHIVGPQRFSGAPAMMEGSWLDVAQRGKPEAQPFAHLTINAASIPSGSHKVTLSSWYHDRGWAKISNMTLSNGKLRVNQDGFYYLYANICFRHHETSGSVPTDYLQLMVYVVKTSIKIPSSHNLMKGGSTKNWSGNSEFHFYSINVGGFFKLRAGEEISIQVSNPSLLDPDQDATYFGAFKVQDID |
| 2178 | sp|Q9Y4G6|TLN2\_HUMAN | MVALSLKICVRHCNVVKTMQFEPSTAVYDACRVIRERVPEAQTGQASDYGLFLSDEDPRKGIWLEAGRTLDYYMLRNGDILEYKKKQRPQKIRMLDGSVKTVMVDDSKTVGELLVTICSRIGITNYEEYSLIQETIEEKKEEGTGTLKKDRTLLRDERKMEKLKAKLHTDDDLNWLDHSRTFREQGVDENETLLLRRKFFYSDQNVDSRDPVQLNLLYVQARDDILNGSHPVSFEKACEFGGFQAQIQFGPHVEHKHKPGFLDLKEFLPKEYIKQRGAEKRIFQEHKNCGEMSEIEAKVKYVKLARSLRTYGVSFFLVKEKMKGKNKLVPRLLGITKDSVMRVDEKTKEVLQEWPLTTVKRWAASPKSFTLDFGEYQESYYSVQTTEGEQISQLIAGYIDIILKKKQSKDRFGLEGDEESTMLEESVSPKKSTILQQQFNRTGKAEHGSVALPAVMRSGSSGPETFNVGSMPSPQQQVMVGQMHRGHMPPLTSAQQALMGTINTSMHAVQQAQDDLSELDSLPPLGQDMASRVWVQNKVDESKHEIHSQVDAITAGTASVVNLTAGDPADTDYTAVGCAITTISSNLTEMSKGVKLLAALMDDEVGSGEDLLRAARTLAGAVSDLLKAVQPTSGEPRQTVLTAAGSIGQASGDLLRQIGENETDERFQDVLMSLAKAVANAAAMLVLKAKNVAQVAEDTVLQNRVIAAATQCALSTSQLVACAKVVSPTISSPVCQEQLIEAGKLVDRSVENCVRACQAATTDSELLKQVSAAASVVSQALHDLLQHVRQFASRGEPIGRYDQATDTIMCVTESIFSSMGDAGEMVRQARVLAQATSDLVNAMRSDAEAEIDMENSKKLLAAAKLLADSTARMVEAAKGAAANPENEDQQQRLREAAEGLRVATNAAAQNAIKKKIVNRLEVAAKQAAAAATQTIAASQNAAVSNKNPAAQQQLVQSCKAVADHIPQLVQGVRGSQAQAEDLSAQLALIISSQNFLQPGSKMVSSAKAAVPTVSDQAAAMQLSQCAKNLATSLAELRTASQKAHEACGPMEIDSALNTVQTLKNELQDAKMAAVESQLKPLPGETLEKCAQDLGSTSKAVGSSMAQLLTCAAQGNEHYTGVAARETAQALKTLAQAARGVAASTTDPAAAHAMLDSARDVMEGSAMLIQEAKQALIAPGDAERQQRLAQVAKAVSHSLNNCVNCLPGQKDVDVALKSIGESSKKLLVDSLPPSTKPFQEAQSELNQAAADLNQSAGEVVHATRGQSGELAAASGKFSDDFDEFLDAGIEMAGQAQTKEDQIQVIGNLKNISMASSKLLLAAKSLSVDPGAPNAKNLLAAAARAVTESINQLITLCTQQAPGQKECDNALRELETVKGMLDNPNEPVSDLSYFDCIESVMENSKVLGESMAGISQNAKTGDLPAFGECVGIASKALCGLTEAAAQAAYLVGISDPNSQAGHQGLVDPIQFARANQAIQMACQNLVDPGSSPSQVLSAATIVAKHTSALCNACRIASSKTANPVAKRHFVQSAKEVANSTANLVKTIKALDGDFSEDNRNKCRIATAPLIEAVENLTAFASNPEFVSIPAQISSEGSQAQEPILVSAKTMLESSSYLIRTARSLAINPKDPPTWSVLAGHSHTVSDSIKSLITSIRDKAPGQRECDYSIDGINRCIRDIEQASLAAVSQSLATRDDISVEALQEQLTSVVQEIGHLIDPIATAARGEAAQLGHKVTQLASYFEPLILAAVGVASKILDHQQQMTVLDQTKTLAESALQMLYAAKEGGGNPKAQHTHDAITEAAQLMKEAVDDIMVTLNEAASEVGLVGGMVDAIAEAMSKLDEGTPPEPKGTFVDYQTTVVKYSKAIAVTAQEMMTKSVTNPEELGGLASQMTSDYGHLAFQGQMAAATAEPEEIGFQIRTRVQDLGHGCIFLVQKAGALQVCPTDSYTKRELIECARAVTEKVSLVLSALQAGNKGTQACITAATAVSGIIADLDTTIMFATAGTLNAENSETFADHRENILKTAKALVEDTKLLVSGAASTPDKLAQAAQSSAATITQLAEVVKLGAASLGSDDPETQVVLINAIKDVAKALSDLISATKGAASKPVDDPSMYQLKGAAKVMVTNVTSLLKTVKAVEDEATRGTRALEATIECIKQELTVFQSKDVPEKTSSPEESIRMTKGITMATAKAVAAGNSCRQEDVIATANLSRKAVSDMLTACKQASFHPDVSDEVRTRALRFGTECTLGYLDLLEHVLVILQKPTPEFKQQLAAFSKRVAGAVTELIQAAEAMKGTEWVDPEDPTVIAETELLGAAASIEAAAKKLEQLKPRAKPKQADETLDFEEQILEAAKSIAAATSALVKSASAAQRELVAQGKVGSIPANAADDGQWSQGLISAARMVAAATSSLCEAANASVQGHASEEKLISSAKQVAASTAQLLVACKVKADQDSEAMRRLQAAGNAVKRASDNLVRAAQKAAFGKADDDDVVVKTKFVGGIAQIIAAQEEMLKKERELEEARKKLAQIRQQQYKFLPTELREDEG |
| 2179 | sp|P09858|TGFB2\_PIG | MHYCVLSAFLLLHLVTVALSLSTCSTLDMDQFMRKRIEAIRGQILSKLKLTSPPEDYPEPEEVPPEVISIYNSTRDLLQEKASRRAAACERERSDEEYYAKEVYKIDMPPFFPSENAIPPTFYRPYFRIVRFDVSAMEKNASNLVKAEFRVFRLQNPKARVAEQRIELYQILKSKDLTSPTQRYIDSKVVKTRAEGEWLSFDVTDAVHEWLHHKDRNLGFKISLHCPCCTFVPSNNYIIPNKSEELEARFAGIDGTSTYTSGDQKTIKSTRKKNSGKTPHLLLMLLPSYGLESQQSNRRKKRALDAAYCFRNVQDNCCLRPLYIDFKRDLGWKWIHEPKGYNANFCAGACPYLWSSDTQHSRVLSLYNTINPEASASPCCVSQDLEPLTILYYIGKTPKIEQLSNMIVKSCKCSKTKLAAFARLYHSHSNLGSET |
| 2180 | sp|Q07011|TNR9\_HUMAN | MGNSCYNIVATLLLVLNFERTRSLQDPCSNCPAGTFCDNNRNQICSPCPPNSFSSAGGQRTCDICRQCKGVFRTRKECSSTSNAECDCTPGFHCLGAGCSMCEQDCKQGQELTKKGCKDCCFGTFNDQKRGICRPWTNCSLDGKSVLVNGTKERDVVCGPSPADLSPGASSVTPPAPAREPGHSPQIISFFLALTSTALLFLLFFLTLRFSVVKRGRKKLLYIFKQPFMRPVQTTQEEDGCSCRFPEEEEGGCEL |
| 2181 | sp|O23680|TOC33\_ARATH | MGSLVREWVGFQQFPAATQEKLIEFFGKLKQKDMNSMTVLVLGKGGVGKSSTVNSLIGEQVVRVSPFQAEGLRPVMVSRTMGGFTINIIDTPGLVEAGYVNHQALELIKGFLVNRTIDVLLYVDRLDVYRVDELDKQVVIAITQTFGKEIWCKTLLVLTHAQFSPPDELSYETFSSKRSDSLLKTIRAGSKMRKQEFEDSAIAVVYAENSGRCSKNDKDEKALPNGEAWIPNLVKAITDVATNQRKAIHVDKKMVDGSYSDDKGKKLIPLIIGAQYLIVKMIQGAIRNDIKTSGKPL |
| 2182 | sp|P19101|TNFA\_FELCA | MSTESMIRDVELAEEALPKKAGGPQGSGRCLCLSLFSFLLVAGATTLFCLLHFGVIGPQREELPHGLQLINPLPQTLRSSSRTPSDKPVAHVVANPEAEGQLQWLSRRANALLANGVELTDNQLKVPSDGLYLIYSQVLFTGQGCPSTHVLLTHTISRFAVSYQTKVNLLSAIKSPCQRETPEGAEAKPWYEPIYLGGVFQLEKGDRLSTEINLPAYLDFAESGQVYFGIIAL |
| 2183 | sp|A5PLL7|TM189\_HUMAN | MAGAENWPGQQLELDEDEASCCRWGAQHAGARELAALYSPGKRLQEWCSVILCFSLIAHNLVHLLLLARWEDTPLVILGVVAGALIADFLSGLVHWGADTWGSVELPIVGKAFIRPFREHHIDPTAITRHDFIETNGDNCLVTLLPLLNMAYKFRTHSPEALEQLYPWECFVFCLIIFGTFTNQIHKWSHTYFGLPRWVTLLQDWHVILPRKHHRIHHVSPHETYFCITTGWLNYPLEKIGFWRRLEDLIQGLTGEKPRADDMKWAQKIK |
| 2184 | sp|Q9BVW5|TIPIN\_HUMAN | MLEPQENGVIDLPDYEHVEDETFPPFPPPASPERQDGEGTEPDEESGNGAPVRVPPKRTVKRNIPKLDAQRLISERGLPALRHVFDKAKFKGKGHEAEDLKMLIRHMEHWAHRLFPKLQFEDFIDRVEYLGSKKEVQTCLKRIRLDLPILHEDFVSNNDEVAENNEHDVTSTELDPFLTNLSESEMFASELSRSLTEEQQQRIERNKQLALERRQAKLLSNSQTLGNDMLMNTPRAHTVEEVNTDEDQKEESNGLNEDILDNPCNDAIANTLNEEETLLDQSFKNVQQQLDATSRNITEAR |
| 2185 | sp|Q08188|TGM3\_HUMAN | MAALGVQSINWQTAFNRQAHHTDKFSSQELILRRGQNFQVLMIMNKGLGSNERLEFIVSTGPYPSESAMTKAVFPLSNGSSGGWSAVLQASNGNTLTISISSPASAPIGRYTMALQIFSQGGISSVKLGTFILLFNPWLNVDSVFMGNHAEREEYVQEDAGIIFVGSTNRIGMIGWNFGQFEEDILSICLSILDRSLNFRRDAATDVASRNDPKYVGRVLSAMINSNDDNGVLAGNWSGTYTGGRDPRSWNGSVEILKNWKKSGFSPVRYGQCWVFAGTLNTALRSLGIPSRVITNFNSAHDTDRNLSVDVYYDPMGNPLDKGSDSVWNFHVWNEGWFVRSDLGPSYGGWQVLDATPQERSQGVFQCGPASVIGVREGDVQLNFDMPFIFAEVNADRITWLYDNTTGKQWKNSVNSHTIGRYISTKAVGSNARMDVTDKYKYPEGSDQERQVFQKALGKLKPNTPFAATSSMGLETEEQEPSIIGKLKVAGMLAVGKEVNLVLLLKNLSRDTKTVTVNMTAWTIIYNGTLVHEVWKDSATMSLDPEEEAEHPIKISYAQYEKYLKSDNMIRITAVCKVPDESEVVVERDIILDNPTLTLEVLNEARVRKPVNVQMLFSNPLDEPVRDCVLMVEGSGLLLGNLKIDVPTLGPKEGSRVRFDILPSRSGTKQLLADFSCNKFPAIKAMLSIDVAE |
| 2186 | sp|P27512|TNR5\_MOUSE | MVSLPRLCALWGCLLTAVHLGQCVTCSDKQYLHDGQCCDLCQPGSRLTSHCTALEKTQCHPCDSGEFSAQWNREIRCHQHRHCEPNQGLRVKKEGTAESDTVCTCKEGQHCTSKDCEACAQHTPCIPGFGVMEMATETTDTVCHPCPVGFFSNQSSLFEKCYPWTSCEDKNLEVLQKGTSQTNVICGLKSRMRALLVIPVVMGILITIFGVFLYIKKVVKKPKDNEILPPAARRQDPQEMEDYPGHNTAAPVQETLHGCQPVTQEDGKESRISVQERQVTDSIALRPLV |
| 2187 | sp|Q28203|TNR5\_BOVIN | MVRLPLQCLFWGFFLTAVHSEPATACGEKQYPVNSLCCDLCPPGQKLVNDCTEVSKTECQSCGKGEFLSTWNREKYCHEHRYCNPNLGLRIQSEGTLNTDTTCVCVEGQHCTSHTCESCTPHSLCLPGFGVKQIATGLLDTVCEPCPLGFFSNVSSAFEKCHRWTSCERKGLVEQHVGTNKTDVVCGFQSRMRTLVVIPVTMGVLFAVLLVSACIRNITKKRQAKALHPTAERQDPVETIDPEDFPGPHPPPPVQETLCWCQPVAQEDGKESRISVQERE |
| 2188 | sp|Q9BDN1|TNFL6\_CERAT | MQQPFNYPYPQIYWVDSSASSPWAPPGTVLPCPTSVPRRPGQRRPPPPPPPPPLPPPPPPPLPPLPLPPLKKRGNHSTGLCLLVMFFMVLVALVGLGLGMFQLFHLQKELAELRESTSQKHTASSLEKQIGHPSPPPEKKEQRKVAHLTGKPNSRSMPLEWEDTYGIVLLSGVKYKKGGLVINETGLYFVYSKVYFRGQSCTNLPLSHKVYMRNSKYPQDLVMMEGKMMSYCTTGQMWAHSSYLGAVFNLTSTDHLYVNVSELSLVNFEESQTFFGLYKL |
| 2189 | sp|P15203|TGFB3\_PIG | MHLQRALVVLALLNFATVSLSMSTCTTLDFDHIKRKRVEAIRGQILSKLRLTSPPDPSMLANIPTQVLDLYNSTRELLEEVHGERGDDCTQENTESEYYAKEIYKFDMIQGLEEHNDLAVCPKGITSKIFRFNVSSVEKNETNLFRAEFRVLRMPNPSSKRSEQRIELFQILQPDEHIAKQRYIDGKNLPTRGAAEWLSFDVTDTVREWLLRRESNLGLEISIHCPCHTFQPNGDILENIQEVMEIKFKGVDSEDDPGRGDLGRLKKKKEHSPHLILMMIPPDRLDNPGLGAQRKKRALDTNYCFRNLEENCCVRPLYIDFRQDLGWKWVHEPKGYYANFCSGPCPYLRSADTTHSSVLGLYNTLNPEASASPCCVPQDLEPLTILYYVGRTAKVEQLSNMVVKSCKCS |
| 2190 | sp|Q9CQG9|TM100\_MOUSE | MTEESTKENLGAPKSPTPVTMEKNPKREVVVTTGPLVSEVQLMAATGGAELSCYRCIIPFAVVVFITGIVVTAVAYSFNSHGSIISIFGLVLLSSGLFLLASSALCWKVRQRNKKVKRRESQTALVVNQRCLFA |
| 2191 | sp|Q9P0S9|TM14C\_HUMAN | MQDTGSVVPLHWFGFGYAALVASGGIIGYVKAGSVPSLAAGLLFGSLAGLGAYQLSQDPRNVWVFLATSGTLAGIMGMRFYHSGKFMPAGLIAGASLLMVAKVGVSMFNRPH |
| 2192 | sp|Q15025|TNIP1\_HUMAN | MEGRGPYRIYDPGGSVPSGEASAAFERLVKENSRLKEKMQGIKMLGELLEESQMEATRLRQKAEELVKDNELLPPPSPSLGSFDPLAELTGKDSNVTASPTAPACPSDKPAPVQKPPSSGTSSEFEVVTPEEQNSPESSSHANAMALGPLPREDGNLMLHLQRLETTLSVCAEEPDHGQLFTHLGRMALEFNRLASKVHKNEQRTSILQTLCEQLRKENEALKAKLDKGLEQRDQAAERLREENLELKKLLMSNGNKEGASGRPGSPKMEGTGKKAVAGQQQASVTAGKVPEVVALGAAEKKVKMLEQQRSELLEVNKQWDQHFRSMKQQYEQKITELRQKLADLQKQVTDLEAEREQKQRDFDRKLLLAKSKIEMEETDKEQLTAEAKELRQKVKYLQDQLSPLTRQREYQEKEIQRLNKALEEALSIQTPPSSPPTAFGSPEGAGALLRKQELVTQNELLKQQVKIFEEDFQRERSDRERMNEEKEELKKQVEKLQAQVTLSNAQLKAFKDEEKAREALRQQKRKAKASGERYHVEPHPEHLCGAYPYAYPPMPAMVPHHGFEDWSQIRYPPPPMAMEHPPPLPNSRLFHLPEYTWRLPCGGVRNPNQSSQVMDPPTARPTEPESPKNDREGPQ |
| 2193 | sp|P23693|TNNI3\_RAT | MADESSDAAGEPQPAPAPVRRRSSANYRAYATEPHAKKKSKISASRKLQLKTLMLQIAKQEMEREAEERRGEKGRVLSTRCQPLVLDGLGFEELQDLCRQLHARVDKVDEERYDVEAKVTKNITEIADLTQKIYDLRGKFKRPTLRRVRISADAMMQALLGTRAKESLDLRAHLKQVKKEDIEKENREVGDWRKNIDALSGMEGRKKKFEG |
| 2194 | sp|P23510|TNFL4\_HUMAN | MERVQPLEENVGNAARPRFERNKLLLVASVIQGLGLLLCFTYICLHFSALQVSHRYPRIQSIKVQFTEYKKEKGFILTSQKEDEIMKVQNNSVIINCDGFYLISLKGYFSQEVNISLHYQKDEEPLFQLKKVRSVNSLMVASLTYKDKVYLNVTTDNTSLDDFHVNGGELILIHQNPGEFCVL |
| 2195 | sp|Q61663|TLX2\_MOUSE | MEPAVLAAHHLPHHEPISFGIDQILSGPEPPGGGLGPGQSGQSHGESAAFSSGFHGASGYAPAGSLASLPRGSGVGPGGVIRVPAHRPLPVPPPSGAAPAVPGPSGLGGAGGLAGLTFPWMDSGRRFAKDRLTAALSPFSGTRRIGHPYQNRTPPKRKKPRTSFSRSQVLELERRFLRQKYLASAERAALAKALRMTDAQVKTWFQNRRTKWRRQTAEEREAERHRAGRLLLHLQQDALPRPLRPPLPPDPLCLHNSSLFALQNLQPWAEDNKVASVSGLASVV |
| 2196 | sp|O46680|TGFR1\_BOVIN | MEAAAATPRPRLFLLMLAAAATLVPEATPLQCFCHLCTKDNFTCVTDGLCFVSVTETTDKVIHNSMCIAEIDLIPRDRPFVCAPSSKTGSITTTYCCNQDHCNKIELPTVGKPSSGLGPVELAAVIAGPVCFVCISLMLMVYICHNRTVIHHRVPNEEDPSLDRPFISEGTTLKDLIYDMTTSGSGSGLPLLVQRTIARTIVLQESIGKGRFGEVWRGKWRGEEVAVKIFSSREERSWFREAEIYQTVMLRHENILGFIAADNKDNGTWTQLWLVSDYHEHGSLFDYLNRYTVTVEGMIKLALSTASGLAHLHMEIVGTQGKPAIAHRDLKSKNILVKKNGTCCIADLGLAVRHDSATDTIDIAPNHRVGTKRYMAPEVLDDSINMKHFESFKRADIYAMGLVFWEVARRCSIGGIHEDYQLPYYDLVPSDPSVEEMRKVVCEQKLRPNIPNRWQSCEALRVMAKIMRECWYANGAARLTALRIKKTLSQLSQQEGIKM |
| 2197 | sp|Q9TXQ1|TNKS1\_CAEEL | MARRVNKKKSPVKAARKIDGQIGRRVVDGVRAKSSRQRHQAVLYQAPTPTVIRRKTTKTAIVKKTVVVVKKGGKVVKKSSKTGQKVKAVKAPKVKAPSKKGNDRLTPRVITEYQENPFFYDPQVPEYISASVYHRWITRAVRNGNMKEIKDYYKSKKCQKSAIYTSFAYSFDTSACDEALRQDIKFATEFFKMNNKMEVDNSYHPGKEPNLLQKKTTGRKNYYMLGRHTRQIEMGRGGKEGNNALLNYDTRTDEPNPLTKLIEDNVTYTKLYQLCKIPDGPIVEHHIEMHFVTAVRMGHRDLASALAQGPVKMHCNDLHRATLKDQKLPAKILPVSVAKKAYMNKNITPLHTAAISNSTHMLEAMRAVYPTINIPDQDNWYTMHYAACAPGTAPMEFLLKNGGSVTMLTKQTETPLHVAARAGRAVNCTFLMKEMLDLEKGDDGESTIRADRSIINARTRSGNSALHLAVLRNNLDVVDALLAEPTIVVDNPTSTGQNRLTPLMMACGKGYLEMAKKLVEKGALVEGKDKKKRTPLIHAMLNGQIHTAAFLLAKGASLTLADSSGNTAAHYAAAYGFLDCLKLLASIDDNILSEPNDWQLYPLSVAYLKGHYGIVTWLLEGPHKDKANINAKDNNGATLLSNLLSYADETMHKELLSQIEYLVARKADASLADSSGQTPLHLFSMQRIILKGSGEAAENDAMRMTLDNYKKCFNTLIKAGAKVDVYDHEDNTPLHYALTNGNLMLFNLMLDKVANKRNLFEKWANHQNFLHEILALPMKVYGDQVLWKGETLTKPAYDVLPILKELHENLPDLFEKWISEVNKAGYSPIVEAIKQYQALAANKKLRGEADQNGNPGFGNAIARGRVHNQFGRDRMNQSQAPHCDSYELKTFISTVNELFEWVIRLGPFQLTQKYINSENSAAVTLANLAMSIPIECGRHQQNQLALFKILIKLSKEFNKVDEFLTQKNEKDDVLIVQAIMFDKPNVVELILDTASEMHLIHGTHNAIKENELEVVVHKTIIMYMIEMRMWELIPKVNASSEFWKSKDAKGNSVWHYAARVNSHKTVGLFKMIESKGVRRETNDDGRSVLHVATLACDGSADSVLEPIAWLSTRCPIDAVDKFNRTALHYAFGNENDFKEGNVPFGESDPIAVVSLLSSLIRPEQIEIADVNGNTILHLAAIKNSTICLMTLIRKKCHVDLKNKDGNTPLALAVHHGRQSSALTLIQANADVTEKIFVPALKPTSDFDQNSSGTEAEKFWKWHGKEKKVLEDLHTTIPASVVSKGGSWEAMVYVLLDVLGQNTGSMAQLTDAALRRGQLNLANQLLKSIEALIDGAVLNSSYDLLDTFAEKCFGALTSEETIEKTVLNRIILTRGLGLKQPETMKIIRTALQNGNWNLLNFLKSEMGTAWKNQKIETPTENPIRSLLIYMNEKSVSSEAIGFLEELRQMRGVNIDALCQLEIPGKFKKILDYGLIPPISFAVLQENPNMIRALRNAGASLKTQDDYGRTPLMYAIMTNNRSVVDAIVGDGKLAVVLHKQKAVATGPRCVAVPMRFGATSRAFIPAAAFASVPARVESDEEEEDNSGSESGEDGAASENKSEHGSENGESGNGSDDEDDDDDDSSPPPAKKSRIAKEAAGPSTGPKRKKLVITDPSLFSARDHKENNPLHYFIEPLAWENVELLGDLAAANKTAIVQCLIDKRSPNPIELAAMKMNRRMKSEMLKIVKNAAFPRPIKETKLTLQQVHIEPLSDVDEDAAKFLAKWVEEKDKKKTSEAPKPHKSSTYSTNGLVSFCDETQQYFDVLMNKTDLMYGRCGFHNFYRMQIIKRRDAELFILFTNWGRIGSGMGEFQTTPFNSLELAAKEFKSIFKSKSGNEWAPLANFRDMPKKYRLVETDSTPTSLAEIELTWKKNTEKDPIRRMIADISDAKTLKTYASQVQMYGGSSQPFGRFTKENIEKAKLVLDKLEKNANRIKQMVEAQTGVVESNLLDAYITTSELSGDYYSLIPSGEYEFSNLTRLDNVEEIARHRARLNRCQEIETATRLLCAAEFRQDLDRVDYIRSAIQCEYRLETPDSDISQRLLQWIHNSGGKQAKVKMILEISPMLSTEKFEPFVNDDNQKFLWHGTKATNLMSILKNGFLIDPPSACKNGNLFGSGIYLADSFEKSTHYCQPSAGGINYMLVCQTALGKVRTLDTIPYHYMNQSSSSAEKYEDTLHYIGDRFPAGSLTNDGVGMPLLPLRKRDPIQGSNYGFGTLDFSEYIVRNPNRVLPKYIVMYK |
| 2198 | sp|Q41009|TOC34\_PEA | MASQQQTVREWSGINTFAPATQTKLLELLGNLKQEDVNSLTILVMGKGGVGKSSTVNSIIGERVVSISPFQSEGPRPVMVSRSRAGFTLNIIDTPGLIEGGYINDMALNIIKSFLLDKTIDVLLYVDRLDAYRVDNLDKLVAKAITDSFGKGIWNKAIVALTHAQFSPPDGLPYDEFFSKRSEALLQVVRSGASLKKDAQASDIPVVLIENSGRCNKNDSDEKVLPNGIAWIPHLVQTITEVALNKSESIFVDKNLIDGPNPNQRGKLWIPLIFALQYLFLAKPIEALIRRDIATETKPAWETRDVGDRK |
| 2199 | sp|P43488|TNFL4\_MOUSE | MEGEGVQPLDENLENGSRPRFKWKKTLRLVVSGIKGAGMLLCFIYVCLQLSSSPAKDPPIQRLRGAVTRCEDGQLFISSYKNEYQTMEVQNNSVVIKCDGLYIIYLKGSFFQEVKIDLHFREDHNPISIPMLNDGRRIVFTVVASLAFKDKVYLTVNAPDTLCEHLQINDGELIVVQLTPGYCAPEGSYHSTVNQVPL |
| 2200 | sp|Q96KP6|TNIP3\_HUMAN | MAHFVQGTSRMIAAESSTEHKECAEPSTRKNLMNSLEQKIRCLEKQRKELLEVNQQWDQQFRSMKELYERKVAELKTKLDAAERFLSTREKDPHQRQRKDDRQREDDRQRDLTRDRLQREEKEKERLNEELHELKEENKLLKGKNTLANKEKEHYECEIKRLNKALQDALNIKCSFSEDCLRKSRVEFCHEEMRTEMEVLKQQVQIYEEDFKKERSDRERLNQEKEELQQINETSQSQLNRLNSQIKACQMEKEKLEKQLKQMYCPPCNCGLVFHLQDPWVPTGPGAVQKQREHPPDYQWYALDQLPPDVQHKANGLSSVKKVHP |
| 2201 | sp|P14565|TRAI1\_ECOLI | MMSIAQVRSAGSAGNYYTDKDNYYVLGSMGERWAGRGAEQLGLQGSVDKDVFTRLLEGRLPDGADLSRMQDGSNRHRPGYDLTFSAPKSVSMMAMLGGDKRLIDAHNQAVDFAVRQVEALASTRVMTDGQSETVLTGNLVMALFNHDTSRDQEPQLHTHAVVANVTQHNGEWKTLSSDKVGKTGFIENVYANQIAFGRLYREKLKEQVEALGYETEVVGKHGMWEMPGVPVEAFSGRSQTIREAVGEDASLKSRDVAALDTRKSKQHVDPEIKMAEWMQTLKETGFDIRAYRDAADQRADLRTLTPGPASQDGPDVQQAVTQAIAGLSERKVQFTYTDVLARTVGILPPENGVIERARAGIDEAISREQLIPLDREKGLFTSGIHVLDELSVRALSRDIMKQNRVTVHPEKSVPRTAGYSDAVSVLAQDRPSLAIVSGQGGAAGQRERVAELVMMAREQGREVQIIAADRRSQMNMKQDERLSGELITGRRQLLEGMAFTPGSTVIVDQGEKLSLKETLTLLDGAARHNVQVLITDSGQRTGTGSALMAMKDAGVNTYRWQGGEQRPATIISEPDRNVRYARLAGDFAASVKAGEESVAQVSGVREQAILTQAIRSELKTQGVLGLPEVTMTALSPVWLDSRSRYLRDMYRPGMVMEQWNPETRSHDRYVIDRVTAQSHSLTLRDAQGETQVVRISSLDSSWSLFRPEKMPVADGERLRVTGKIPGLRVSGGDRLQVASVSEDAMTVVVPGRAEPATLPVSDSPFTALKLENGWVETPGHSVSDSATVFASVTQMAMDNATLNGLARSGRDVRLYSSLDETRTAEKLARHPSFTVVSEQIKTRAGETSLETAISHQKSALHTPAQQAIHLALPVVESKKLAFSMVDLLTEAKSFAAEGTGFTELGGEINAQIKRGDLLYVDVAKGYGTGLLVSRASYEAEKSILRHILEGKEAVMPLMERVPGELMEKLTSGQRAATRMILETSDRFTVVQGYAGVGKTTQFRAVMSAVNMLPESERPRVVGLGPTHRAVGEMRSAGVDAQTLASFLHDTQLQQRSGETPDFSNTLFLLDESSMVGNTDMARAYALIAAGGGRAVASGDTDQLQAIAPGQPFRLQQTRSAADVAIMKEIVRQTPELREAVYSLINRDVERALSGLESVKPSQVPRQEGAWAPEHSVTEFSHSQEAKLAEAQQKAMLKGEAFPDVPMTLYEAIVRDYTGRTPEAREQTLIVTHLNEDRRVLNSMIHDVREKAGELGKEQVMVPVLNTANIRDGELRRLSTWETHRDALVLVDNVYHRIAGISKDDGLITLQDAEGNTRLISPREAVAEGVTLYTPDTIRVGTGDRMRFTKSDRERGYVANSVWTVTAVSGDSVTLSDGQQTREIRPGQEQAEQHIDLAYAITAHGAQGASETFAIALEGTEGNRKLMAGFESAYVALSRMKQHVQVYTDNRQGWTDAINNAVQKGTAHDVFEPKPDREVMNAERLFSTARELRDVAAGRAVLRQAGLAGGDSPARFIAPGRKYPQPYVALPAFDRNGKSAGIWLNPLTTDDGNGLRGFSGEGRVKGSGDAQFVALQGSRNGESLLADNMQDGVRIARDNPDSGVVVRIAGEGRPWNPGAITGGRVWGDIPDNSVQPGAGNGEPVTAEVLAQRQAEEAIRRETERRADEIVRKMAENKPDLPDGKTEQAVREIAGQERDRAAITEREAALPEGVLREPQRVREAVREIARENLLQERLQQMERDMVRDLQKEKTLGGD |
| 2202 | sp|Q3U0V2|TRADD\_MOUSE | MAAGQNGHEEWVGSAYLFLESAVDKVILSEAYTDPKKKVAIYKALQTALSESGDSSDVLQILKIHCSDPQLIVQLRFCGRVLCGRFLQAYREGALRTALQRCMAPALAQEALRLQLELRAGAEQLDSWLTDEERCLNYILAQKPDRLRDEELAELEDELCKLTCDCTGQGGAIQVASAGSKFPVSSPTEEKPLPAACQTFLFHGQLVVNRPLTLQDQQTFARSVGLKWRRVGRSLQRNCRALRDPALDSLAYEYERDGLYEQAFQLLRRFMQAEGRRATLQRLVEALEENELTSLAEDLLGQAEPDGGLA |
| 2203 | sp|Q96RU8|TRIB1\_HUMAN | MRVGPVRSAMSGASQPRGPALLFPATRGVPAKRLLDADDAAAVAAKCPRLSECSSPPDYLSPPGSPCSPQPPPAAPGAGGGSGSAPGPSRIADYLLLPLAEREHVSRALCIHTGRELRCKVFPIKHYQDKIRPYIQLPSHSNITGIVEVILGETKAYVFFEKDFGDMHSYVRSRKRLREEEAARLFKQIVSAVAHCHQSAIVLGDLKLRKFVFSTEERTQLRLESLEDTHIMKGEDDALSDKHGCPAYVSPEILNTTGTYSGKAADVWSLGVMLYTLLVGRYPFHDSDPSALFSKIRRGQFCIPEHISPKARCLIRSLLRREPSERLTAPEILLHPWFESVLEPGYIDSEIGTSDQIVPEYQEDSDISSFFC |
| 2204 | sp|Q13472|TOP3A\_HUMAN | MIFPVARYALRWLRRPEDRAFSRAAMEMALRGVRKVLCVAEKNDAAKGIADLLSNGRMRRREGLSKFNKIYEFDYHLYGQNVTMVMTSVSGHLLAHDFQMQFRKWQSCNPLVLFEAEIEKYCPENFVDIKKTLERETRQCQALVIWTDCDREGENIGFEIIHVCKAVKPNLQVLRARFSEITPHAVRTACENLTEPDQRVSDAVDVRQELDLRIGAAFTRFQTLRLQRIFPEVLAEQLISYGSCQFPTLGFVVERFKAIQAFVPEIFHRIKVTHDHKDGIVEFNWKRHRLFNHTACLVLYQLCVEDPMATVVEVRSKPKSKWRPQALDTVELEKLASRKLRINAKETMRIAEKLYTQGYISYPRTETNIFPRDLNLTVLVEQQTPDPRWGAFAQSILERGGPTPRNGNKSDQAHPPIHPTKYTNNLQGDEQRLYEFIVRHFLACCSQDAQGQETTVEIDIAQERFVAHGLMILARNYLDVYPYDHWSDKILPVYEQGSHFQPSTVEMVDGETSPPKLLTEADLIALMEKHGIGTDATHAEHIETIKARMYVGLTPDKRFLPGHLGMGLVEGYDSMGYEMSKPDLRAELEADLKLICDGKKDKFVVLRQQVQKYKQVFIEAVAKAKKLDEALAQYFGNGTELAQQEDIYPAMPEPIRKCPQCNKDMVLKTKKNGGFYLSCMGFPECRSAVWLPDSVLEASRDSSVCPVCQPHPVYRLKLKFKRGSLPPTMPLEFVCCIGGCDDTLREILDLRFSGGPPRASQPSGRLQANQSLNRMDNSQHPQPADSRQTGSSKALAQTLPPPTAAGESNSVTCNCGQEAVLLTVRKEGPNRGRQFFKCNGGSCNFFLWADSPNPGAGGPPALAYRPLGASLGCPPGPGIHLGGFGNPGDGSGSGTSCLCSQPSVTRTVQKDGPNKGRQFHTCAKPREQQCGFFQWVDENTAPGTSGAPSWTGDRGRTLESEARSKRPRASSSDMGSTAKKPRKCSLCHQPGHTRPFCPQNR |
| 2205 | sp|Q9NBK5|TRC\_DROME | MMSSRTQDADGASIRFSDHTLDKATKAKVTLENYYSNLVTQYGERKQRLAKLEAQLKDESLSEAQRQEKRLQHAQKETEYLRLKRLRLGVEDFEALKVIGRGAFGEVRLVQKKDTGHVYAMKVLRKADMLEKEQVAHVRAERDVLVEADHQWVVKMYYSFQDPVNLYLIMEFLPGGDMMTLLMKKDTLSEEGTQFYISETALAIDSIHKLGFIHRDIKPDNLLLDARGHLKLSDFGLCTGLKKSHRTDFYRDLSQAKPSDFIGTCASLSCSPMDSKRRAESWKRNRRALAYSTVGTPDYIAPEVFLQTGYGPACDWWSLGVIMYEMLMGYPPFCSDNPQDTYRKVMNWRETLIFPPEIPISEEAKETIINFCCEADRRLGSQRGLEDLKSVPFFRGVDWEHIRERPAAIPVEVRSIDDTSNFDEFPDVSLEIPSAPIPQGGEIAKDWVFINYTYKRFEVRNLE |
| 2206 | sp|Q9C037|TRIM4\_HUMAN | MEAEDIQEELTCPICLDYFQDPVSIECGHNFCRGCLHRNWAPGGGPFPCPECRHPSAPAALRPNWALARLTEKTQRRRLGPVPPGLCGRHWEPLRLFCEDDQRPVCLVCRESQEHQTHAMAPIDEAFESYRTGNFDIHVDEWKRRLIRLLLYHFKQEEKLLKSQRNLVAKMKKVMHLQDVEVKNATQWKDKIKSQRMRISTEFSKLHNFLVEEEDLFLQRLNKEEEETKKKLNENTLKLNQTIASLKKLILEVGEKSQAPTLELLQNPKEVLTRSEIQDVNYSLEAVKVKTVCQIPLMKEMLKRFQVAVNLAEDTAHPKLVFSQEGRYVKNTASASSWPVFSSAWNYFAGWRNPQKTAFVERFQHLPCVLGKNVFTSGKHYWEVESRDSLEVAVGVCREDVMGITDRSKMSPDVGIWAIYWSAAGYWPLIGFPGTPTQQEPALHRVGVYLDRGTGNVSFYSAVDGVHLHTFSCSSVSRLRPFFWLSPLASLVIPPVTDRK |
| 2207 | sp|P0A862|TPX\_ECOLI | MSQTVHFQGNPVTVANSIPQAGSKAQTFTLVAKDLSDVTLGQFAGKRKVLNIFPSIDTGVCAASVRKFNQLATEIDNTVVLCISADLPFAQSRFCGAEGLNNVITLSTFRNAEFLQAYGVAIADGPLKGLAARAVVVIDENDNVIFSQLVDEITTEPDYEAALAVLKA |
| 2208 | sp|P34981|TRFR\_HUMAN | MENETVSELNQTQLQPRAVVALEYQVVTILLVLIICGLGIVGNIMVVLVVMRTKHMRTPTNCYLVSLAVADLMVLVAAGLPNITDSIYGSWVYGYVGCLCITYLQYLGINASSCSITAFTIERYIAICHPIKAQFLCTFSRAKKIIIFVWAFTSLYCMLWFFLLDLNISTYKDAIVISCGYKISRNYYSPIYLMDFGVFYVVPMILATVLYGFIARILFLNPIPSDPKENSKTWKNDSTHQNTNLNVNTSNRCFNSTVSSRKQVTKMLAVVVILFALLWMPYRTLVVVNSFLSSPFQENWFLLFCRICIYLNSAINPVIYNLMSQKFRAAFRKLCNCKQKPTEKPANYSVALNYSVIKESDHFSTELDDITVTDTYLSATKVSFDDTCLASEVSFSQS |
| 2209 | sp|Q13454|TUSC3\_HUMAN | MGARGAPSRRRQAGRRLRYLPTGSFPFLLLLLLLCIQLGGGQKKKENLLAEKVEQLMEWSSRRSIFRMNGDKFRKFIKAPPRNYSMIVMFTALQPQRQCSVCRQANEEYQILANSWRYSSAFCNKLFFSMVDYDEGTDVFQQLNMNSAPTFMHFPPKGRPKRADTFDLQRIGFAAEQLAKWIADRTDVHIRVFRPPNYSGTIALALLVSLVGGLLYLRRNNLEFIYNKTGWAMVSLCIVFAMTSGQMWNHIRGPPYAHKNPHNGQVSYIHGSSQAQFVAESHIILVLNAAITMGMVLLNEAATSKGDVGKRRIICLVGLGLVVFFFSFLLSIFRSKYHGYPYSDLDFE |
| 2210 | sp|Q8NFU3|TSTD1\_HUMAN | MAGAPTVSLPELRSLLASGRARLFDVRSREEAAAGTIPGALNIPVSELESALQMEPAAFQALYSAEKPKLEDEHLVFFCQMGKRGLQATQLARSLGYTGARNYAGAYREWLEKES |
| 2211 | sp|P40061|TSC11\_YEAST | MSIPHSAKQSSPLSSRRRSVTNTTPLLTPRHSRDNSSTQISSAKNITSSSPSTITNESSKRNKQNLVLSTSFISTKRLENSAPSPTSPLMARRTRSTMTKALLNLKAEINNQYQELARLRKKKDDIEHLRDSTISDIYSGSYSTNHLQKHSMRIRANTQLREIDNSIKRVEKHIFDLKQQFDKKRQRSLTTSSSIKADVGSIRNDDGQNNDSEELGDHDSLTDQVTLDDEYLTTPTSGTERNSQQNLNRNSTVNSRNNENHSTLSIPDLDGSNKVNLTGDTEKDLGDLENENQIFTSTTTEAATWLVSDYMQSFQEKNVNPDFIAQKANGLVTLLKEHSEIRKDLVLTSFMSSIQNLLLNGNKLIAASAYRVCRYLINSSIFIDELLELRLDAFIIISLAKDNSFQIEREQALKMVRRFIEYNNGVTQGIMQAIISCVEKPEDSLRHMALETLLELCFVAPEMVKECRGMRVIEGFLQDYTSFSLASVILDTILQLMATHKTRQHFLEDFNVSVLTTVFSDTNTKSNVNVEKMQNASTLISITLNSYNGFMLFSNNNFKPLKQLVSFFQIPICAQYLIDIFLDVLKIKPLPYKPRGRHSHSFKPIPSQYYKECMSVNQRLALIVLILENSEFVPHLLELLNEEDRDDHLVAKGRYLLTEYFNLRMNLVDKKYTSVSKPIYKENFTYVNETFQFKKIAYKMNRNRNTIGMSGIDYAQNIKSFSKNIKENTLLREVDDFRFRRMVYDSKVLQTKDFTRWNWNIINELLEGPLLNKKQLEELVKSTKFIRRLLVFYRPLRLRFSNVNKGAKLSQKYVQVGCQFFKTLTATPEGMKILMDDTKIIPQLASLMFRAMEGNISGNIFNKNKLREKIIFGYFKFIGILTQSKNGVHILTRWNFFTVIYKMFQFESKLGLEFLLLTIPELDLKYSSHCRVIIGKALVVANEKVRIEATKHIGDKLKELLSTKESDLKLKANKVKLQQFKMEMLTRQLYDLSPSVVAVADQALYECIVAGNGSEELGTSFRMFLNQMVFIRSPILFELLSRPYGFQLLNEINFVKEERDSWLSKKNIEYVHIVEEFLKKNESINAKSLTFQQKSRLPLHFYESLTKTEDGILLLSQTGDLVTFMNVIKKYVNGNNMATVENAKEILDLKAALWCVGFIGSTELGIGLLDNYSLVEDIIEVAYNASVTSVRFTAFYVLGLISMTREGCEILDEMGWNCCVSVQDEPIGIALPNRLDRFLSYNEHKWSAFGEYSDEMIVFNKSDGDLIEKCLPIEFDLDKLLKEKDTAENPLNEKIITNKYDNDITSQTITVSGENSSLFANEGLSSPYVTQYRNDDDSIESKVLHIVSQLGNHILSNHAVKEITEINNKYGPRLFENEKMFFKVFNMMSKYRFKPHVRKFLCGLFINNRALENVIRHDNKRDKRPANFTR |
| 2212 | sp|Q8VD72|TTC8\_MOUSE | MGSEMEPLLRAWSYFRRRKFQLCADLCTQMLEKSPYDQEPAPDLPVSQAAWILKARALTEMVYIDEIDVDQEGIAEMILDENAIAQVPRPGTSLKLPGTNQTGGPTQAVRPITQAGRPITGFLRPSTQSGRPGTMEQAIRTPRTAYTARPITSSSGRFVRLGTASMLTSPDGPFINLSRLNLTKYSQKPKLAKALFEYILHHENDVKMALDLASLSTEYSQYKDWWWKVQIGKCYYRLGMYREAEKQFKSALKQQEMVDTFLYLAKVYIILDQPVTALNLFKQGLDKFPGEVTLLCGIARIYEEMNNSSSAAEYYKEVLKQDNTHVEAIACIGSNHFYSDQPEVALRFYRRLLQMGVYNCQLFNNLGLCCFYAQQYDMTLTSFERALSLAENEEEAADVWYNLGHIAVGIGDTNLAHQCFRLALVHNNHHAEAYNNLAVLEMRKGHVEQARALLQTASSLAPHMYEPHFNFATVSDKIGDLQRSYVAAQKSEVAFPEHVDTQHLIKQLKQHFAML |
| 2213 | sp|B7ZS96|TTHY\_XENLA | MASFKSFLLLALLAIVSEAAPPGHASHGEADSKCPLMVKVLDAVRGIPAANLLVNVFRQTESGKWEQITSGKTTELGEIHNLTTDEQFTEGVYKIEFATKAFWGKLGLSPFHEYVDVVFTANDAGHRHYTIAVLLTPYSFSSTAIVSEPHDDL |
| 2214 | sp|P52478|UBC1\_CAEEL | MTTPSRRRLMRDFKKLQEDPPAGVSGAPTEDNILTWEAIIFGPQETPFEDGTFKLSLEFTEEYPNKPPTVKFISKMFHPNVYADGSICLDILQNRWSPTYDVAAILTSIQSLLDEPNPNSPANSLAAQLYQENRREYEKRVQQIVEQSWLNFGENEGDAVLKDDVEIEEIAAPGANDADDDRMDEGASGSNA |
| 2215 | sp|P01222|TSHB\_HUMAN | MTALFLMSMLFGLTCGQAMSFCIPTEYTMHIERRECAYCLTINTTICAGYCMTRDINGKLFLPKYALSQDVCTYRDFIYRTVEIPGCPLHVAPYFSYPVALSCKCGKCNTDYSDCIHEAIKTNYCTKPQKSYLVGFSV |
| 2216 | sp|O88196|TTC3\_MOUSE | MDDFAEGGLSLADDILLEDYPYEDDCICTPDFTTDDYVRVTQLYYEGVGMQYKDYAQSEKNLEYDICNIWCSKPLSILQDYCDAIKLYIFWPLLFQHQHSSIISRLHPCVEAIRSRAAEISLKKLQHLELMEDIVDLAKKVANDSFLIEGLLKIGYKIENKILAMEDALNWIKYTGDVTILPKLGSVDNCWPMLSIFFTEYKYHITRVVTENCNLLEEFRRHSCMQCVKQGELMKMRGNEEFSKEKFEIAVIYYTRAIEYRPENHLLYGNRALCFLRMGQFRNALSDGKRAIVLKNTWPKGHYRYCDALCMLGEYDWALQANIKAQKLCKNDPEGIKDLIQQHVKLQKQIEDLQGRTSNKNPIKAFYESRAYIPRNSSAPAFRTSLNFVETERGFRKTKYKMANGGDQNQKVADEALKGDDCDCHPEFLPPPSQPPRHKGKQKSRNNESEKPSFNSEVSLQVDLKSILEKQFSKSSRAAHQDFANIMKMLRSLIQDGYTALLEQRCRSAAQAFTELLNGLDPQKIKQLNLAMINYVLVVYGLAVSLLGIGRPEELSEAENQFKRIIEHYPNEGLDCLAYCGIGKVYLKKNRFLEALNHFEKAKTLISRLPGILTWPTSNVIIEESKPEKVKVMLEKFVEECKFPPVPDAVCCYQKCRGYSKIQIYLTDPDFKGFIRISCCQYCKVEFHMNCWKKLKTTTFNDKIDKDFLQGICLTPDCEGIISKIIIYSSGGQVKCEFEHKVIKEKVPSRPVLKQKCSSLEKLRLKEDKKLKRKIQKQEAKKLAQERMEEDLRESNPPKNEEPEETSDSAQRCQFLDDRILQCIKQNADKIKSVVLNTSTLLKELLSWKVLSTEDYTTCFSSKNFVHEAVDYVIGHLIQEKNRVKTRIFLHVLSELKELDPKLAPWIQRLNSFGLDAIGPFFTRYGASLKELDFHVVTVLWDEKYGHKLGSIEGKQLDYFFEPASAMEARCLIWLLEEHRDKFPALHSALDEFFDIMDSRCTVLRKQDSDEMPFGCIKVKNKGKKKKPKDSKPMLVGSGAASVAPSSEAVTPEDHSRRNSDSAGPFAVPDHLRQDVEEFEALYDQHSSEYVVRNKKLWDINPKQKCSTLYDYFSQLLEEHGPLDMSDRMFSEEYEFFPEETRQILEKAGGLKSFLLGCPRFVVIDNCIALKKVASRLKKKRKKKNMKAKVEDISKTGEYLRVKLPLNPTAREFQPDVKSEALSEDVKSIPGPADSSTLAAEDLKAQLDSDSSSGSASEDSRLEVASPDSPTPLCEDASPSPTPAPEEAKPTYWAQSHLVTGFCTYLPFQGFGITQRPAYINMVPSLSQFTSIYTPLANISSEYPMQRSMPVVPSFVASNRADENAAAYFESPNLNTEHDSGDHMASETQILEDTLGVCVRSQGSAADADPALSEPEGNSEHSGSSDSLWEASLENVSGTTDAPAAPSVAIQVSRSMVHQEVNTEPYEPFETQQGDLSQKEKECHLLREQLKVACENCEQIELRSSQEIKDLEEKLQRHTEENKISKTELDWFLQDLDREIKKWQQEKKEIQERLKALKKKIKKVINTSEMSAQKNDGFDKECEPHPDQSLGFSSALTDEKTKAEESVRKGKELYEESHQRAVAAEVSVLENWKEREVCKLQGVASQSEAYLKSLKLMSSDSATYPDVEYDILSWESFLSTVREEIESKKSQFEEHIKAIKNGSRLSDLSSVQLSEVSFPGCSTIHPQFLSESSGHEDPGLVACVDSMTGAVLNDPYMDSASGCPEEVPELSLGSPTHQPEVTQQLELKGASQVSPSEQSPEADEKLSGQATRSSQSPKKPSNSIIEHLSVIFPCYTSTELAGFIKKVRNKTKNSFSGLTIEEIVEKVTEHIVDEQKKKKPNPGKDKKTSEAHSAASVAKSSQSPPLAAAGPSARTKGQKKDDVPAPDGNSCEICHEIFKSKNMRVLKCGHKFHKGCFKQWLKGQSTCPTCGSSDLLSEE |
| 2217 | sp|P63281|UBC9\_RAT | MSGIALSRLAQERKAWRKDHPFGFVAVPTKNPDGTMNLMNWECAIPGKKGTPWEGGLFKLRMLFKDDYPSSPPKCKFEPPLFHPNVYPSGTVCLSILEEDKDWRPAITIKQILLGIQELLNEPNIQDPAQAEAYTIYCQNRVEYEKRVRAQAKKFAPS |
| 2218 | sp|Q5AL36|TYE7\_CANAL | MSSFQQENQLNANNNNNNVMNEYISYSVPLSPVTTNENPQDYWMNGLIANSVPISQTTSNSDINYSQPPNPINFNSIFEGVNIFSNDDFTSSSNDISLANSPETNATSDSIAQNLDEVKVKLENHNQARLDALEFAFETKSILKEQPKIKQEPGTKAATKPKRRAPRKKLTESQKKAHNKIEKRYRININAKIAGIQKIIPWVAFEKTAFETGEENETEAEAKNNTRLNKSMILEKATEYILHLQKKEEEYMAENQKLREQVIKLGGEI |
| 2219 | sp|Q72LF3|TTUA\_THET2 | MVCKVCGQKAQVEMRSRGLALCREHYLDWFVKETERAIRRHRMLLPGERVLVAVSGGKDSLALWDVLSRLGYQAVGLHIELGIGEYSKRSLEVTQAFARERGLELLVVDLKEAYGFGVPELARLSGRVACSACGLSKRYIINQVAVEEGFRVVATGHNLDDEAAVLFGNLLNPQEETLSRQGPVLPEKPGLAARVKPFYRFSEREVLSYTLLRGIRYLHEECPNAKGAKSLLYKEALNLVERSMPGAKLRFLDGFLEKIRPRLDVGEEVALRECERCGYPTTGAVCAFCRMWDAVYRRAKKRKLLPEEVSFRPRVKPLRAG |
| 2220 | sp|Q9XFH8|TRXF1\_ARATH | MPLSLRLSPSPTALSPTTGGFGPSRKQCRIPYSGVPTTKIGFCSLDSRKRGDSSVVRCSLETVNVSVGQVTEVDKDTFWPIVKAAGEKLVVLDMYTQWCGPCKVIAPKYKALSEKYDDVVFLKLDCNPDNRPLAKELGIRVVPTFKILKDNKVVKEVTGAKYDDLVAAIETARSAASG |
| 2221 | sp|P52490|UBC13\_YEAST | MASLPKRIIKETEKLVSDPVPGITAEPHDDNLRYFQVTIEGPEQSPYEDGIFELELYLPDDYPMEAPKVRFLTKIYHPNIDRLGRICLDVLKTNWSPALQIRTVLLSIQALLASPNPNDPLANDVAEDWIKNEQGAKAKAREWTKLYAKKKPE |
| 2222 | sp|Q8WVN8|UB2Q2\_HUMAN | MSVSGLKAELKFLASIFDKNHERFRIVSWKLDELHCQFLVPQQGSPHSLPPPLTLHCNITESYPSSSPIWFVDSEDPNLTSVLERLEDTKNNNLLRQQLKWLICELCSLYNLPKHLDVEMLDQPLPTGQNGTTEEVTSEEEEEEEEMAEDIEDLDHYEMKEEEPISGKKSEDEGIEKENLAILEKIRKTQRQDHLNGAVSGSVQASDRLMKELRDIYRSQSYKTGIYSVELINDSLYDWHVKLQKVDPDSPLHSDLQILKEKEGIEYILLNFSFKDNFPFDPPFVRVVLPVLSGGYVLGGGALCMELLTKQGWSSAYSIESVIMQINATLVKGKARVQFGANKNQYNLARAQQSYNSIVQIHEKNGWYTPPKEDG |
| 2223 | sp|Q8R4D5|TRPM8\_MOUSE | MSFEGARLSMRSRRNGTMGSTRTLYSSVSRSTDVSYSDSDLVNFIQANFKKRECVFFTRDSKAMENICKCGYAQSQHIEGTQINQNEKWNYKKHTKEFPTDAFGDIQFETLGKKGKYLRLSCDTDSETLYELLTQHWHLKTPNLVISVTGGAKNFALKPRMRKIFSRLIYIAQSKGAWILTGGTHYGLMKYIGEVVRDNTISRNSEENIVAIGIAAWGMVSNRDTLIRSCDDEGHFSAQYIMDDFTRDPLYILDNNHTHLLLVDNGCHGHPTVEAKLRNQLEKYISERTSQDSNYGGKIPIVCFAQGGGRETLKAINTSVKSKIPCVVVEGSGQIADVIASLVEVEDVLTSSMVKEKLVRFLPRTVSRLPEEEIESWIKWLKEILESSHLLTVIKMEEAGDEIVSNAISYALYKAFSTNEQDKDNWNGQLKLLLEWNQLDLASDEIFTNDRRWESADLQEVMFTALIKDRPKFVRLFLENGLNLQKFLTNEVLTELFSTHFSTLVYRNLQIAKNSYNDALLTFVWKLVANFRRSFWKEDRSSREDLDVELHDASLTTRHPLQALFIWAILQNKKELSKVIWEQTKGCTLAALGASKLLKTLAKVKNDINAAGESEELANEYETRAVELFTECYSNDEDLAEQLLVYSCEAWGGSNCLELAVEATDQHFIAQPGVQNFLSKQWYGEISRDTKNWKIILCLFIIPLVGCGLVSFRKKPIDKHKKLLWYYVAFFTSPFVVFSWNVVFYIAFLLLFAYVLLMDFHSVPHTPELILYALVFVLFCDEVRQWYMNGVNYFTDLWNVMDTLGLFYFIAGIVFRLHSSNKSSLYSGRVIFCLDYIIFTLRLIHIFTVSRNLGPKIIMLQRMLIDVFFFLFLFAVWMVAFGVARQGILRQNEQRWRWIFRSVIYEPYLAMFGQVPSDVDSTTYDFSHCTFSGNESKPLCVELDEHNLPRFPEWITIPLVCIYMLSTNILLVNLLVAMFGYTVGIVQENNDQVWKFQRYFLVQEYCNRLNIPFPFVVFAYFYMVVKKCFKCCCKEKNMESNACCFRNEDNETLAWEGVMKENYLVKINTKANDNSEEMRHRFRQLDSKLNDLKSLLKEIANNIK |
| 2224 | sp|Q9LNE6|U89C1\_ARATH | MTTTTTKKPHVLVIPFPQSGHMVPHLDLTHQILLRGATVTVLVTPKNSSYLDALRSLHSPEHFKTLILPFPSHPCIPSGVESLQQLPLEAIVHMFDALSRLHDPLVDFLSRQPPSDLPDAILGSSFLSPWINKVADAFSIKSISFLPINAHSISVMWAQEDRSFFNDLETATTESYGLVINSFYDLEPEFVETVKTRFLNHHRIWTVGPLLPFKAGVDRGGQSSIPPAKVSAWLDSCPEDNSVVYVGFGSQIRLTAEQTAALAAALEKSSVRFIWAVRDAAKKVNSSDNSVEEDVIPAGFEERVKEKGLVIRGWAPQTMILEHRAVGSYLTHLGWGSVLEGMVGGVMLLAWPMQADHFFNTTLIVDKLRAAVRVGENRDSVPDSDKLARILAESAREDLPERVTLMKLREKAMEAIKEGGSSYKNLDELVAEMCL |
| 2225 | sp|Q02053|UBA1\_MOUSE | MSSSPLSKKRRVSGPDPKPGSNCSPAQSALSEVSSVPTNGMAKNGSEADIDESLYSRQLYVLGHEAMKMLQTSSVLVSGLRGLGVEIAKNIILGGVKAVTLHDQGTTQWADLSSQFYLREEDIGKNRAEVSQPRLAELNSYVPVTAYTGPLVEDFLSSFQVVVLTNSPLEAQLRVGEFCHSRGIKLVVADTRGLFGQLFCDFGEEMVLTDSNGEQPLSAMVSMVTKDNPGVVTCLDEARHGFETGDFVSFSEVQGMIQLNGCQPMEIKVLGPYTFSICDTSNFSDYIRGGIVSQVKVPKKISFKSLPASLVEPDFVMTDFAKYSRPAQLHIGFQALHQFCALHNQPPRPRNEEDATELVGLAQAVNARSPPSVKQNSLDEDLIRKLAYVAAGDLAPINAFIGGLAAQEVMKACSGKFMPIMQWLYFDALECLPEDKEALTEEKCLPRQNRYDGQVAVFGSDFQEKLSKQKYFLVGAGAIGCELLKNFAMIGLGCGEGGEVVVTDMDTIEKSNLNRQFLFRPWDVTKLKSDTAAAAVRQMNPYIQVTSHQNRVGPDTERIYDDDFFQNLDGVANALDNIDARMYMDRRCVYYRKPLLESGTLGTKGNVQVVIPFLTESYSSSQDPPEKSIPICTLKNFPNAIEHTLQWARDEFEGLFKQPAENVNQYLTDSKFVERTLRLAGTQPLEVLEAVQRSLVLQRPQTWGDCVTWACHHWHTQYCNNIRQLLHNFPPDQLTSSGAPFWSGPKRCPHPLTFDVNNTLHLDYVMAAANLFAQTYGLTGSQDRAAVASLLQSVQVPEFTPKSGVKIHVSDQELQSANASVDDSRLEELKATLPSPDKLPGFKMYPIDFEKDDDSNFHMDFIVAASNLRAENYDISPADRHKSKLIAGKIIPAIATTTAAVVGLVCLELYKVVQGHQQLDSYKNGFLNLALPFFGFSEPLAAPRHQYYNQEWTLWDRFEVQGLQPNGEEMTLKQFLDYFKTEHKLEITMLSQGVSMLYSFFMPAAKLKERLDQPMTEIVSRVSKRKLGRHVRALVLELCCNDESGEDVEVPYVRYTIR |
| 2226 | sp|P0AGM7|URAA\_ECOLI | MTRRAIGVSERPPLLQTIPLSLQHLFAMFGATVLVPVLFHINPATVLLFNGIGTLLYLFICKGKIPAYLGSSFAFISPVLLLLPLGYEVALGGFIMCGVLFCLVSFIVKKAGTGWLDVLFPPAAMGAIVAVIGLELAGVAAGMAGLLPAEGQTPDSKTIIISITTLAVTVLGSVLFRGFLAIIPILIGVLVGYALSFAMGIVDTTPIINAHWFALPTLYTPRFEWFAILTILPAALVVIAEHVGHLVVTANIVKKDLLRDPGLHRSMFANGLSTVISGFFGSTPNTTYGENIGVMAITRVYSTWVIGGAAIFAILLSCVGKLAAAIQMIPLPVMGGVSLLLYGVIGASGIRVLIESKVDYNKAQNLILTSVILIIGVSGAKVNIGAAELKGMALATIVGIGLSLIFKLISVLRPEEVVLDAEDADITDK |
| 2227 | sp|P69744|TRPV5\_MOUSE | MGAKTPWIQLQKLLNWWVRDQDWNQHVDQLHMLQQKSIWESPLLRAAKENDMCTLKKLQHDQNCDFRQRGALGETALHVAALYDNLDAAIMLMEAAPYLVTESTLCEPFVGQTALHIAVMNQNVNLVRALLARGASASARATGSAFHRSSHNLIYYGEHPLSFAACVGSEEIVRLLIEHGADIRAQDSLGNTVLHILVLQPNKTFACQMYNLLLSYDGGDHLKSLELVPNNQGLTPFKLAGVEGNTVMFQHLMQKRKRIQWSFGPLTSSLYDLTEIDSWGEELSFLELVVSSKKKEARQILEQTPVKELVSLKWKKYGQPYFCLLGALYIFYMVCFTTCCVYRPLKFRDANRTHVRDNTIMEQKSLQEAYVTYQDKIRLVGELVTVIGAVIILLLEIPDIFRVGASRYFGQTVLGGPFHVIIITYASLVLLTMAMRLTNVNGEVVPMSMALVLGWCSVMYFARGFQMLGPFTIMIQKMIFGDLLRFCWLMAMVILGFASAFYIIFQTEDPDNLGEFSDYPTAMFSTFELFLTIIDGPANYRVDLPFMYSVTYATFAIIATLLMLNLFIAMMGDTHWRVAQERDELWRAQVVATTVMLERKMPRFLWPRSGICGCEYGLGDRWFLRVEHHQEQNPYRVLRYVEAFKSSDKEEVQEQLSEKQPSGTETGTLARGSVVLQTPPLSRTTSLSSNSHRGWEILRRNTLGHLNLGLDPGEGDGEEIYQF |
| 2228 | sp|Q9UMW8|UBP18\_HUMAN | MSKAFGLLRQICQSILAESSQSPADLEEKKEEDSNMKREQPRERPRAWDYPHGLVGLHNIGQTCCLNSLIQVFVMNVDFTRILKRITVPRGADEQRRSVPFQMLLLLEKMQDSRQKAVRPLELAYCLQKCNVPLFVQHDAAQLYLKLWNLIKDQITDVHLVERLQALYTIRVKDSLICVDCAMESSRNSSMLTLPLSLFDVDSKPLKTLEDALHCFFQPRELSSKSKCFCENCGKKTRGKQVLKLTHLPQTLTIHLMRFSIRNSQTRKICHSLYFPQSLDFSQILPMKRESCDAEEQSGGQYELFAVIAHVGMADSGHYCVYIRNAVDGKWFCFNDSNICLVSWEDIQCTYGNPNYHWQETAYLLVYMKMEC |
| 2229 | sp|Q99K23|UFSP2\_MOUSE | MDILFRIRGGFDLAFQLAPPKEMFIKNALRQVLSDLTTKLSSDALVLRVCNSSVYLWPNSDANTGELTDSSACKNVVRFIQFDQEEDTKRKFIKKKDKKLTDTQQIVNIDLMLEISTPLGAVTPILERENEEHHYINMSLPIDAVVSVAPEESWGKVRKLLVDAILRQLVDVEKCILRYMKGTSIVVPEPLHFQLPGKKNLVTVLYPSGIPDDQLQAYRKELHDLFNLPHDRPYFKRINAYHFPDELYKDGYIRNPHTYLSPPNIEGSMICVVQGTYAYHHYMQDRIDDNGWGCAYRSLQTICSWFRHQGYTERSIPTHREIQQALVDAGDKPATFVGSRQWIGSIEVQMVLNQLIGVTSKILFVNQGSEMASQGRELANHFQNVGTPVMVGGGVLAHTILGVAWNETTGQIKFLILDPHYTGAEDLQVMLEKGWCGWKSPDFWNKDAYYNLCLPQRPNAL |
| 2230 | sp|O94782|UBP1\_HUMAN | MPGVIPSESNGLSRGSPSKKNRLSLKFFQKKETKRALDFTDSQENEEKASEYRASEIDQVVPAAQSSPINCEKRENLLPFVGLNNLGNTCYLNSILQVLYFCPGFKSGVKHLFNIISRKKEALKDEANQKDKGNCKEDSLASYELICSLQSLIISVEQLQASFLLNPEKYTDELATQPRRLLNTLRELNPMYEGYLQHDAQEVLQCILGNIQETCQLLKKEEVKNVAELPTKVEEIPHPKEEMNGINSIEMDSMRHSEDFKEKLPKGNGKRKSDTEFGNMKKKVKLSKEHQSLEENQRQTRSKRKATSDTLESPPKIIPKYISENESPRPSQKKSRVKINWLKSATKQPSILSKFCSLGKITTNQGVKGQSKENECDPEEDLGKCESDNTTNGCGLESPGNTVTPVNVNEVKPINKGEEQIGFELVEKLFQGQLVLRTRCLECESLTERREDFQDISVPVQEDELSKVEESSEISPEPKTEMKTLRWAISQFASVERIVGEDKYFCENCHHYTEAERSLLFDKMPEVITIHLKCFAASGLEFDCYGGGLSKINTPLLTPLKLSLEEWSTKPTNDSYGLFAVVMHSGITISSGHYTASVKVTDLNSLELDKGNFVVDQMCEIGKPEPLNEEEARGVVENYNDEEVSIRVGGNTQPSKVLNKKNVEAIGLLGGQKSKADYELYNKASNPDKVASTAFAENRNSETSDTTGTHESDRNKESSDQTGINISGFENKISYVVQSLKEYEGKWLLFDDSEVKVTEEKDFLNSLSPSTSPTSTPYLLFYKKL |
| 2231 | sp|Q9JLA3|UGGG1\_RAT | MCSRGDANAAGAAAARRVTGLCYNMGLLIALALLCLFSLAEANSKAITTSLTTKWFSAPLLLEASEFLAEDSQEKFWSFVEASQNIGSSDQHDTDRSYYDAILEAAFRFLSPLQQNLLKFCLSLRSYSASIQAFQQIAVDEPPPEGCKSFLSVHGKQTCDLGTLESLLLTAPDRPKPLLFKGDHRYPSSNPESPVVIFYSEIGHEEFSNIHHQLISKSNEGKINYVFRHYISNPRKEPVHLSGYGVELAIKSTEYKAKDDTQVKGTEVNTTVIGENDPIDEVQGFLFGKLRELYPSLEGQLKEFRKHLVESTNEMAPLKVWQLQDLSFQTAARILAAPVELALVVMKDISQNFPTKARAITKTAVSAQLRAEVEENQKYFKGTIGLQPGDSALFINGLHIDLDTQDIFSLFDTLRNEARVMEGLHRLGIEGLSLHNILKLNIQPSETDYAVDIRSPAISWVNNLEVDSRYNSWPSSLQELLRPTFPGVIRQIRKNLHNMVFIVDPVHETTAELVSIAEMFLSNHIPLRIGFIFVVNDSEDVDGMQDAGVAVLRAYNYVGQEVDGYHAFQTLTQIYNKVRTGEKVKVEHVVSVLEKKYPYVEVNSILGIDSAYDQNRKEARGYYEQTGVGPLPVVLFNGMPFEKEQLDPDELETITMHKILETTTFFQRAVYLGELSHDQDVVEYIMNQPNVVPRINSRILTAKREYLDLTASNNFYVDDFARFSALDSRGKTAAIANSMNYLTKKGMSSKEIYDDSFIRPVTFWIVGDFDSPSGRQLLYDAIKHQKTSNNVRISMINNPSREISDSSTPVSRAIWAALQTQTSNSAKNFITKMVKEETAEALAAGVDIGEFSVGGMDVSLFKEVFESSRMDFILSHALYCRDVLKLKKGQRVVISNGRIIGPLEDSELFNQDDFHLLENIILKTSGQKIKSHIQQLRVEEDVASDLVMKVDALLSAQPKGEARIEYQFFEDKHSAIKLKPKEGETYYDVVAVVDPVTREAQRLAPLLLVLAQLINMSLRVFMNCQSKLSDMPLKSFYRYVLEPEISFTADNSFAKGPIAKFLDMPQSPLFTLNLNTPESWMVESVRTPYDLDNIYLEEVDSIVAAEYELEYLLLEGHCYDITTGQPPRGLQFTLGTSANPTTVDTIVMANLGYFQLKANPGAWILRLRKGRSDDIYRIYSHDGTDSPPDANDVVVILNNFKSKIIKVKVQKKADMANEDLLSDGTNENESGFWDSFKWGFSGQKTEEVKQDKDDIINIFSVASGHLYERFLRIMMLSVLKNTKTPVKFWFLKNYLSPTFKEFIPYMAKKYNFQYELVQYKWPRWLHQQTEKQRIIWGYKILFLDVLFPLVVDKFLFVDADQIVRTDLKELRDFNLDGAPYGYTPFCDSRREMDGYRFWKSGYWASHLAGRKYHISALYVVDLKKFRKIAAGDRLRGQYQGLSQDPNSLSNLDQDLPNNMIHQVPIKSLPQEWLWCETWCDDASKKRAKTIDLCNNPMTKEPKLEAAVRIVPEWQDYDQEIKQLQTLFQEEKELGTLHEEETQEGSQKHEEL |
| 2232 | sp|Q15849|UT2\_HUMAN | MSDPHSSPLLPEPLSSRYKLYEAEFTSPSWPSTSPDTHPALPLLEMPEEKDLRSSNEDSHIVKIEKLNERSKRKDDGVAHRDSAGQRCICLSKAVGYLTGDMKEYRIWLKDKHLALQFIDWVLRGTAQVMFINNPLSGLIIFIGLLIQNPWWTITGGLGTVVSTLTALALGQDRSAIASGLHGYNGMLVGLLMAVFSEKLDYYWWLLFPVTFTAMSCPVLSSALNSIFSKWDLPVFTLPFNIAVTLYLAATGHYNLFFPTTLVEPVSSVPNITWTEMEMPLLLQAIPVGVGQVYGCDNPWTGGVFLVALFISSPLICLHAAIGSIVGLLAALSVATPFETIYTGLWSYNCVLSCIAIGGMFYALTWQTHLLALICALFCAYMEAAISNIMSVVGVPPGTWAFCLATIIFLLLTTNNPAIFRLPLSKVTYPEANRIYYLTVKSGEEEKAPSGGGGEHPPTAGPKVEEGSEAVLSKHRSVFHIEWSSIRRRSKVFGKGEHQERQNKDPFPYRYRKPTVELLDLDTMEESSEIKVETNISKTSWIRSSMAASGKRVSKALSYITGEMKECGEGLKDKSPVFQFFDWVLRGTSQVMFVNNPLSGILIILGLFIQNPWWAISGCLGTIMSTLTALILSQDKSAIAAGFHGYNGVLVGLLMAVFSDKGDYYWWLLLPVIIMSMSCPILSSALGTIFSKWDLPVFTLPFNITVTLYLAATGHYNLFFPTTLLQPASAMPNITWSEVQVPLLLRAIPVGIGQVYGCDNPWTGGIFLIALFISSPLICLHAAIGSTMGMLAALTIATPFDSIYFGLCGFNSTLACIAIGGMFYVITWQTHLLAIACALFAAYLGAALANMLSVFGLPPCTWPFCLSALTFLLLTTNNPAIYKLPLSKVTYPEANRIYYLSQERNRRASIITKYQAYDVS |
| 2233 | sp|Q9HAW7|UD17\_HUMAN | MARAGWTGLLPLYVCLLLTCGFAKAGKLLVVPMDGSHWFTMQSVVEKLILRGHEVVVVMPEVSWQLGRSLNCTVKTYSTSYTLEDQDREFMVFADARWTAPLRSAFSLLTSSSNGIFDLFFSNCRSLFNDRKLVEYLKESCFDAVFLDPFDACGLIVAKYFSLPSVVFARGIFCHYLEEGAQCPAPLSYVPRLLLGFSDAMTFKERVWNHIMHLEEHLFCPYFFKNVLEIASEILQTPVTAYDLYSHTSIWLLRTDFVLEYPKPVMPNMIFIGGINCHQGKPVPMEFEAYINASGEHGIVVFSLGSMVSEIPEKKAMAIADALGKIPQTVLWRYTGTRPSNLANNTILVKWLPQNDLLGHPMTRAFITHAGSHGVYESICNGVPMVMMPLFGDQMDNAKRMETKGAGVTLNVLEMTSEDLENALKAVINDKSYKENIMRLSSLHKDRPVEPLDLAVFWVEFVMRHKGAPHLRPAAHDLTWYQYHSLDVIGFLLAVVLTVAFITFKCCAYGYRKCLGKKGRVKKAHKSKTH |
| 2234 | sp|Q62768|UN13A\_RAT | MSLLCVGVKKAKFDGAQEKFNTYVTLKVQNVKSTTIAVRGSQPSWEQDFMFEINRLDLGLTVEVWNKGLIWDTMVGTVWIPLRTIRQSNEEGPGEWLTLDSQAIMADSEICGTKDPTFHRILLDAHFELPLDIPEEEARYWAKKLEQLNAMRDQDEYSFQDQQDKPLPVPSSQCCNWNYFGWGEQNDDPDSAVDDRDSDYRSETSNSIPPPYYTTSQPNASVHQYSVRPPPLGSRESYSDSMHSYEEFSEPRALSPTGSSRYASSGELSQGSSQLSEDFDPDEHSLQGSELDDERDRDSYHSCHSSVSYHKDSPRWDQDEEDLEDLEDLEDEELPEEEELEEEELEEEEELEEEELELEEEEEVPDDLASYTQQEDTTVAEPKEFKRISFPTAAPQKEDKVSAVPIEAPDVSKGIPKAATPEEKAAAECAQEAEPPKSEESFRSREAEEGQEGQDAMSRAKANWLRAFNKVRMQLQEARGEGEMSKSLWFKGGPGGGLIIIDSMPDIRKRKPIPLVSDLAMSLVQSRKAGITSALASSTLNNEELKNHVYKKTLQALIYPISCTTPHNFEVWTATTPTYCYECEGLLWGIARQGMRCTECGVKCHEKCQDLLNADCLQRAAEKSSKHGAEDRTQNIIMVLKDRMKIRERNKPEIFELIQEVFAVTKSAHTQQMKAVKQSVLDGTSKWSAKISITVVCAQGLQAKDKTGSSDPYVTVQVGKTKKRTKTIYGNLNPVWEENFHFECHNSSDRIKVRVLDEDDDIKSRVKQRFKRESDDFLGQTIIEVRTLSGEMDVWYNLDKRTDKSAVSGAIRLHISVEIKGEEKVAPYHVQYTCLHENLFHFVTDVQNNGVVKIPDAKGDDAWKVYYDETAQEIVDEFAMRYGVESIYQAMTHFACLSSKYMCPGVPAVMSTLLANINAYYAHTTASTNVSASDRFAASNFGKERFVKLLDQLHNSLRIDLSMYRNNFPASSPERLQDLKSTVDLLTSITFFRMKVQELQSPPRASQVVKDCVKACLNSTYEYIFNNCHELYGREYQTDPAKKGEVPPEEQGPSIKNLDFWSKLITLIVSIIEEDKNSYTPCLNQFPQELNVGKISAEVMWSLFAQDMKYAMEEHDKHRLCKSADYMNLHFKVKWLYNEYVAELPTFKDRVPEYPAWFEPFVIQWLDENEEVSRDFLHGALERDKKDGFQQTSEHALFSCSVVDVFSQLNQSFEIIKKLECPDPQIVGHYMRRFAKTISNVLLQYADIVSKDFASYCSKEKEKVPCILMNNTQQLRVQLEKMFEAMGGKELDAEASGTLKELQVKLNNVLDELSHVFATSFQPHIEECVRQMGDILSQVKGTGNVPASACSSVAQDADNVLQPIMDLLDSNLTLFAKICEKTVLKRVLKELWKLVMNTMERTIVLPPLTDQTMIGTLLRKHGKGLEKGRVKLPSHSDGTQMIFNAAKELGQLSKLKDHMVREEAKSLTPKQCAVVELALDTIKQYFHAGGVGLKKTFLEKSPDLQSLRYALSLYTQATDLLIKTFVQTQSAQVHGGKGTRFTLSEDVCPEMGSGVEDPVGEVSVHVELFTHPGTGEQKVTVKVVAANDLKWQTSGIFRPFIEVNIVGPQLSDKKRKFATKSKNNSWAPKYNESFQFSLSADAGPECYELQVCVKDYCFAREDRTVELAVLQLRELAQRGSAACWLPLGRRIHMDDTGLTVLRILSQRSNDEVAKEFVKLKSDTRSAEEGGAAPAP |
| 2235 | sp|Q14BU0|UCMA\_MOUSE | MSWRRVILLSSLLALVLLCMLQEGTSASVGSRQAAAEGVQEGVKQKIFMQESDASNFLKRRGKRSPKSRDEVNAENRQRLRDDELRREYYEEQRNEFENFVEEQRDEQEERTREAVEQWRQWHYDGLYPSYLYNRQNI |
| 2236 | sp|P41542|USO1\_RAT | MNFLRGVMGGQSAGPQHTEAETIQKLCDRVASSTLLDDRRNAVRALKSLSKKYRLEVGIQAMEHLIHVLQTDRSDSEIIAYALDTLYNIISNDEEEEVEENSTRQSEDLGSQFTEIFIKQPENVTLLLSLLEEFDFHVRWPGVRLLTSLLKQLGPPVQQIILVSPMGVSKLMDLLADSREIIRNDGVLLLQALTRSNGAIQKIVAFENAFERLLDIITEEGNSDGGIVVEDCLILLQNLLKNNNSNQNFFKEGSYIQRMKAWFEVGDENPGWSAQKVTNLHLMLQLVRVLVSPTNPPGATSSCQKAMFQCGLLQQLCTILMATGIPADILTETINTVSEVIRGCQVNQDYFASVNAPSNPPRPAIVVLLMSMVNERQPFVLRCAVLYCFQCFLYKNEKGQGEIVATLLPSTIDATGNSVSAGQLLCGGLFSTDSLSNWCAAVALAHALQGNATQKEQLLRVQLATSIGNPPVSLLQQCTNILSQGSKIQTRVGLLMLLCTWLSNCPIAVTHFLHNSANVPFLTGQIAENLGEEEQLVQGLCALLLGISIYFNDNSLENYTKEKLKQLIEKRIGKENYIEKLGFISKHELYSRASQKPQPNFPSPEYMIFDHEFTKLVKELEGVITKAIYKSSEEDKKEEEVKKTLEQHDNIVTHYKNMIREQDLQLEELKQQVSTLKCQNEQLQTAVTQQASQIQQHKDQYNLLKVQLGKDNHHQGSHSDGAQVNGIQPEEISRLREEIEELRSHQVLLQSQLAEKDTVIENLRSSQVSGMSEQALATCSPRDAEQVAELKQELSALKSQLCSQSLEITRLQTENSELQQRAETLAKSVPVEGESELVTAAKTTDVEGRLSALLQETKELKNEIKALSEERTAIQKQLDSSNSTIAILQTEKDKLYLEVTDSKKEQDDLLVLLADQDQKILSLKSKLKDLGHPVEEEDESGDQEDDDDELDDGDRDQDI |
| 2237 | sp|Q8K1S2|UNC5D\_MOUSE | MGTGAADGSRGARRWLPWLGLFFWAAGAAAARGADGSEILPDSIPSAPGTLPHFIEEPEDAYIIKSNPIALRCKARPAMQIFFKCNGEWVHQNEHVSEESLDESSGLKVREVFINVTRQQVEDFHGPEDYWCQCVAWSHLGTSKSRKASVRIAYLRKNFEQDPQGREVPIEGMIVLHCRPPEGVPAAEVEWLKNEEPIDSEQDENIDTRADHNLIIRQARLSDSGNYTCMAANIVAKRRSLSATVVVYVNGGWSSWTEWSACNVRCGRGWQKRSRTCTNPAPLNGGAFCEGMSVQKITCTALCPVDGSWEVWSEWSVCSPECEHLRIRECTAPPPRNGGKFCEGLSQESENCTDGLCILDKKPLHEIKPQRWSRRGIENASDIALYSGLGAAVVAVAVLVIGVTLYRRSHSDYGVDVIDSSALTGGFQTFNFKTVRQGNSLLLNPAMQPDLTVSRTYSGPICLQDPLDKELMTESSLFNPLSDIKVKVQSSFMVSLGVSERAEYHGKNHSGTFPHGNNRGFSTIHPRNKTPYIQNLSSLPTRTELRTTGVFGHLGGRLVMPNTGVSLLIPHGAIPEENSWEIYMSINQGEPSLQSDGSEVLLSPEVTCGPPDMLVTTPFALTIPHCADVSSEHWNIHLKKRTQQGKWEEVMSVEDESTSCYCLLDPFACHVLLDSFGTYALTGEPITDCAVKQLKVAVFGCMSCNSLDYNLRVYCVDNTPCAFQEVISDERHQGGQLLEEPKLLHFKGNTFSLQVSVLDIPPFLWRIKPFTACQEVPFSRVWSSNRQPLHCAFSLERYTPTTTQLSCKICIRQLKGHEQILQVQTSILESERETITFFAQEDSTFPAQTGPKAFKIPYSIRQRICATFDTPNAKGKDWQMLAQKNSINRNLSYFATQSSPSAVILNLWEARHQQDGDLDSLACALEEIGRTHTKLSNITEPQIDDADFNYSRQNGL |
| 2238 | sp|P53044|UFD1\_YEAST | MFSGFSSFGGGNGFVNMPQTFEEFFRCYPIAMMNDRIRKDDANFGGKIFLPPSALSKLSMLNIRYPMLFKLTANETGRVTHGGVLEFIAEEGRVYLPQWMMETLGIQPGSLLQISSTDVPLGQFVKLEPQSVDFLDISDPKAVLENVLRNFSTLTVDDVIEISYNGKTFKIKILEVKPESSSKSICVIETDLVTDFAPPVGYVEPDYKALKAQQDKEKKNSFGKGQVLDPSVLGQGSMSTRIDYAGIANSSRNKLSKFVGQGQNISGKAPKAEPKQDIKDMKITFDGEPAKLDLPEGQLFFGFPMVLPKEDEESAAGSKSSEQNFQGQGISLRKSNKRKTKSDHDSSKSKAPKSPEVIEID |
| 2239 | sp|P13528|UNC86\_CAEEL | MEKAHRFRLPFCSFFPVPLLVSVLIFHHSAPFLIQLFFPSPLFNPLLRPSKISRGSENGACTSHSTLQRTRKIIQWELPKRGGDQDIGDPRPFRIHLSPPSFKVPLFSTDMQNTAPVPTTTTASKMQPFNNSLFGSFDDPILNARAAQVALADIDVKNVPQLTNPLMRPHDMFSYSNYFSGIHDTSAATNIYQGLPSSSEPFDASVVVPTSSDDQMTPLQQVMAMQQSYGAPPPFQYNMTHPFSTTSIASSNNLARYPIAPPTSDMDTDPRQLETFAEHFKQRRIKLGVTQADVGKALAHLKMPGVGSLSQSTICRFESLTLSHNNMVALKPILHSWLEKAEEAMKQKDTIGDINGILPNTDKKRKRTSIAAPEKRELEQFFKQQPRPSGERIASIADRLDLKKNVVRVWFCNQRQKQKRDFRSQFRARSAAAVMGPRVMPVLNGNNSNNNLKQGQTTYNGLPGFFD |
| 2240 | sp|P33202|UFD4\_YEAST | MSENNSHNLDEHESHSENSDYMMDTQVEDDYDEDGHVQGEYSYYPDEDEDEHMLSSVGSFEADDGEDDDNDYHHEDDSGLLYGYHRTQNGSDEDRNEEEDGLERSHDNNEFGSNPLHLPDILETFAQRLEQRRQTSEGLGQHPVGRTLPEILSMIGGRMERSAESSARNERISKLIENTGNASEDPYIAMESLKELSENILMMNQMVVDRIIPMETLIGNIAAILSDKILREELELQMQACRCMYNLFEVCPESISIAVDEHVIPILQGKLVEISYIDLAEQVLETVEYISRVHGRDILKTGQLSIYVQFFDFLTIHAQRKAIAIVSNACSSIRTDDFKTIVEVLPTLKPIFSNATDQPILTRLVNAMYGICGALHGVDKFETLFSLDLIERIVQLVSIQDTPLENKLKCLDILTVLAMSSDVLSRELREKTDIVDMATRSFQHYSKSPNAGLHETLIYVPNSLLISISRFIVVLFPPEDERILSADKYTGNSDRGVISNQEKFDSLVQCLIPILVEIYTNAADFDVRRYVLIALLRVVSCINNSTAKAINDQLIKLIGSILAQKETASNANGTYSSEAGTLLVGGLSLLDLICKKFSELFFPSIKREGIFDLVKDLSVDFNNIDLKEDGNENISLSDEEGDLHSSIEECDEGDEEYDYEFTDMEIPDSVKPKKISIHIFRTLSLAYIKNKGVNLVNRVLSQMNVEQEAITEELHQIEGVVSILENPSTPDKTEEDWKGIWSVLKKCIFHEDFDVSGFEFTSTGLASSITKRITSSTVSHFILAKSFLEVFEDCIDRFLEILQSALTRLENFSIVDCGLHDGGGVSSLAKEIKIKLVYDGDASKDNIGTDLSSTIVSVHCIASFTSLNEFLRHRMVRMRFLNSLIPNLTSSSTEADREEEENCLDHMRKKNFDFFYDNEKVDMESTVFGVIFNTFVRRNRDLKTLWDDTHTIKFCKSLEGNNRESEAAEEANEGKKLRDFYKKREFAQVDTGSSADILTLLDFLHSCGVKSDSFINSKLSAKLARQLDEPLVVASGALPDWSLFLTRRFPFLFPFDTRMLFLQCTSFGYGRLIQLWKNKSKGSKDLRNDEALQQLGRITRRKLRISRKTIFATGLKILSKYGSSPDVLEIEYQEEAGTGLGPTLEFYSVVSKYFARKSLNMWRCNSYSYRSEMDVDTTDDYITTLLFPEPLNPFSNNEKVIELFGYLGTFVARSLLDNRILDFRFSKVFFELLHRMSTPNVTTVPSDVETCLLMIELVDPLLAKSLKYIVANKDDNMTLESLSLTFTVPGNDDIELIPGGCNKSLNSSNVEEYIHGVIDQILGKGIEKQLKAFIEGFSKVFSYERMLILFPDELVDIFGRVEEDWSMATLYTNLNAEHGYTMDSSIIHDFISIISAFGKHERRLFLQFLTGSPKLPIGGFKSLNPKFTVVLKHAEDGLTADEYLPSVMTCANYLKLPKYTSKDIMRSRLCQAIEEGAGAFLLS |
| 2241 | sp|Q9Z1G4|VPP1\_MOUSE | MGELFRSEEMTLAQLFLQSEAAYCCVSELGELGKVQFRDLNPDVNVFQRKFVNEVRRCEEMDRKLRFVEKEIRKANIPIMDTGENPEVPFPRDMIDLEANFEKIENELKEINTNQEALKRNFLELTELKFILRKTQQFFDEAELHHQQMADPDLLEESSSLLEPNEMGRGAPLRLGFVAGVINRERIPTFERMLWRVCRGNVFLRQAEIENPLEDPVTGDYVHKSVFIIFFQGDQLKNRVKKICEGFRASLYPCPETPQERKEMASGVNTRIDDLQMVLNQTEDHRQRVLQAAAKNIRVWFIKVRKMKAIYHTLNLCNIDVTQKCLIAEVWCPVTDLDSIQFALRRGTEHSGSTVPSILNRMQTNQTPPTYNKTNKFTHGFQNIVDAYGIGTYREINPAPYTVITFPFLFAVMFGDFGHGILMTLFAVWMVLRESRILSQKHENEMFSMVFSGRYIILLMGLFSIYTGLIYNDCFSKSLNIFGSSWSVRPMFTQGNWTEETLLGSSVLQLNPAIPGVFGGPYPFGIDPIWNIATNKLTFLNSFKMKMSVILGIIHMLFGVSLSLFNHIYFKKPLNIYFGFIPEIIFMSSLFGYLVILIFYKWTAYDAHSSRNAPSLLIHFINMFLFSYPESGNAMLYSGQKGIQCFLIVVAMLCVPWMLLFKPLILRHQYLRKKHLGTLNFGGIRVGNGPTEEDAEIIQHDQLSTHSEDAEEFDFGDTMVHQAIHTIEYCLGCISNTASYLRLWALSLAHAQLSEVLWTMVIHIGLHVRSLAGGLGLFFIFAAFATLTVAILLIMEGLSAFLHALRLHWVEFQNKFYTGTGFKFLPFSFEHIREGKFDE |
| 2242 | sp|P35194|UTP20\_YEAST | MAKQRQTTKSSKRYRYSSFKARIDDLKIEPARNLEKRVHDYVESSHFLASFDQWKEINLSAKFTEFAAEIEHDVQTLPQILYHDKKIFNSLVSFINFHDEFSLQPLLDLLAQFCHDLGPDFLKFYEEAIKTLINLLDAAIEFESSNVFEWGFNCLAYIFKYLSKFLVKKLVLTCDLLIPLLSHSKEYLSRFSAEALSFLVRKCPVSNLREFVRSVFEKLEGDDEQTNLYEGLLILFTESMTSTQETLHSKAKAIMSVLLHEALTKSSPERSVSLLSDIWMNISKYASIESLLPVYEVMYQDFNDSLDATNIDRILKVLTTIVFSESGRKIPDWNKITILIERIMSQSENCASLSQDKVAFLFALFIRNSDVKTLTLFHQKLFNYALTNISDCFLEFFQFALRLSYERVFSFNGLKFLQLFLKKNWQSQGKKIALFFLEVDDKPELQKVREVNFPEEFILSIRDFFVTAEINDSNDLFEIYWRAIIFKYSKLQNTEIIIPLLERIFSTFASPDNFTKDMVGTLLKIYRKEDDASGNNLLKTILDNYENYKESLNFLRGWNKLVSNLHPSESLKGLMSHYPSLLLSLTDNFMLPDGKIRYETLELMKTLMILQGMQVPDLLSSCMVIEEIPLTLQNARDLTIRIKNVGAEFGKTKTDKLVSSFFLKYLFGLLTVRFSPVWTGVFDTLPNVYTKDEALVWKLVLSFIKLPDENQNLDYYQPLLEDGANKVLWDSSVVRLRDTIDTFSHIWSKYSTQNTSIISTTIERRGNTTYPILIRNQALKVMLSIPQVAENHFVDIAPFVYNDFKTYKDEEDMENERVITGSWTEVDRNVFLKTLSKFKNIKNVYSATELHDHLMVLLGSRNTDVQKLALDALLAYKNPTLNKYRDNLKNLLDDTLFKDEITTFLTENGSQSIKAEDEKVVMPYVLRIFFGRAQVPPTSGQKRSRKIAVISVLPNFKKPYINDFLSLASERLDYNYFFGNSHQINSSKATLKTIRRMTGFVNIVNSTLSVLRTNFPLHTNSVLQPLIYSIAMAYYVLDTESTEEVHLRKMASNLRQQGLKCLSSVFEFVGNTFDWSTSMEDIYAVVVKPRISHFSDENLQQPSSLLRLFLYWAHNPSLYQFLYYDEFATATALMDTISNQHVKEAVIGPIIEAADSIIRNPVNDDHYVDLVTLICTSCLKILPSLYVKLSDSNSISTFLNLLVSITEMGFIQDDHVRSRLISSLISILKGKLKKLQENDTQKILKILKLIVFNYNCSWSDIEELYTTISSLFKTFDERNLRVSLTELFIELGRKVPELESISKLVADLNSYSSSRMHEYDFPRILSTFKGLIEDGYKSYSELEWLPLLFTFLHFINNKEELALRTNASHAIMKFIDFINEKPNLNEASKSISMLKDILLPNIRIGLRDSLEEVQSEYVSVLSYMVKNTKYFTDFEDMAILLYNGDEEADFFTNVNHIQLHRRQRAIKRLGEHAHQLKDNSISHYLIPMIEHYVFSDDERYRNIGNETQIAIGGLAQHMSWNQYKALLRRYISMLKTKPNQMKQAVQLIVQLSVPLRETLRIVRDGAESKLTLSKFPSNLDEPSNFIKQELYPTLSKILGTRDDETIIERMPIAEALVNIVLGLTNDDITNFLPSILTNICQVLRSKSEELRDAVRVTLGKISIILGAEYLVFVIKELMATLKRGSQIHVLSYTVHYILKSMHGVLKHSDLDTSSSMIVKIIMENIFGFAGEEKDSENYHTKVKEIKSNKSYDAGEILASNISLTEFGTLLSPVKALLMVRINLRNQNKLSELLRRYLLGLNHNSDSESESILKFCHQLFQESEMSNSPQIPKKKVKDQVDEKEDFFLVNLESKSYTINSNSLLLNSTLQKFALDLLRNVITRHRSFLTVSHLEGFIPFLRDSLLSENEGVVISTLRILITLIRLDFSDESSEIFKNCARKVLNIIKVSPSTSSELCQMGLKFLSAFIRHTDSTLKDTALSYVLGRVLPDLNEPSRQGLAFNFLKALVSKHIMLPELYDIADTTREIMVTNHSKEIRDVSRSVYYQFLMEYDQSKGRLEKQFKFMVDNLQYPTESGRQSVMELINLIITKANPALLSKLSSSFFLALVNVSFNDDAPRCREMASVLISTMLPKLENKDLEIVEKYIAAWLKQVDNASFLNLGLRTYKVYLKSIGFEHTIELDELAIKRIRYILSDTSVGSEHQWDLVYSALNTFSSYMEATESVYKHGFKDIWDGIITCLLYPHSWVRQSAANLVHQLIANKDKLEISLTNLEIQTIATRILHQLGAPSIPENLANVSIKTLVNISILWKEQRTPFIMDVSKQTGEDLKYTTAIDYMVTRIGGIIRSDEHRMDSFMSKKACIQLLALLVQVLDEDEVIAEGEKILLPLYGYLETYYSRAVDEEQEELRTLSNECLKILEDKLQVSDFTKIYTAVKQTVLERRKERRSKRAILAVNAPQISADKKLRKHARSREKRKHEKDENGYYQRRNKRKRA |
| 2243 | sp|O95155|UBE4B\_HUMAN | MEELSADEIRRRRLARLAGGQTSQPTTPLTSPQRENPPGPPIAASAPGPSQSLGLNVHNMTPATSPIGASGVAHRSQSSEGVSSLSSSPSNSLETQSQSLSRSQSMDIDGVSCEKSMSQVDVDSGIENMEVDENDRREKRSLSDKEPSSGPEVSEEQALQLVCKIFRVSWKDRDRDVIFLSSLSAQFKQNPKEVFSDFKDLIGQILMEVLMMSTQTRDENPFASLTATSQPIAAAARSPDRNLLLNTGSNPGTSPMFCSVASFGASSLSSLYESSPAPTPSFWSSVPVMGPSLASPSRAASQLAVPSTPLSPHSAASGTAAGSQPSSPRYRPYTVTHPWASSGVSILSSSPSPPALASSPQAVPASSSRQRPSSTGPPLPPASPSATSRRPSSLRISPSLGASGGASNWDSYSDHFTIETCKETDMLNYLIECFDRVGIEEKKAPKMCSQPAVSQLLSNIRSQCISHTALVLQGSLTQPRSLQQPSFLVPYMLCRNLPYGFIQELVRTTHQDEEVFKQIFIPILQGLALAAKECSLDSDYFKYPLMALGELCETKFGKTHPVCNLVASLRLWLPKSLSPGCGRELQRLSYLGAFFSFSVFAEDDVKVVEKYFSGPAITLENTRVVSQSLQHYLELGRQELFKILHSILLNGETREAALSYMAAVVNANMKKAQMQTDDRLVSTDGFMLNFLWVLQQLSTKIKLETVDPTYIFHPRCRITLPNDETRVNATMEDVNDWLTELYGDQPPFSEPKFPTECFFLTLHAHHLSILPSCRRYIRRLRAIRELNRTVEDLKNNESQWKDSPLATRHREMLKRCKTQLKKLVRCKACADAGLLDESFLRRCLNFYGLLIQLLLRILDPAYPDITLPLNSDVPKVFAALPEFYVEDVAEFLFFIVQYSPQALYEPCTQDIVMFLVVMLCNQNYIRNPYLVAKLVEVMFMTNPAVQPRTQKFFEMIENHPLSTKLLVPSLMKFYTDVEHTGATSEFYDKFTIRYHISTIFKSLWQNIAHHGTFMEEFNSGKQFVRYINMLINDTTFLLDESLESLKRIHEVQEEMKNKEQWDQLPRDQQQARQSQLAQDERVSRSYLALATETVDMFHILTKQVQKPFLRPELGPRLAAMLNFNLQQLCGPKCRDLKVENPEKYGFEPKKLLDQLTDIYLQLDCARFAKAIADDQRSYSKELFEEVISKMRKAGIKSTIAIEKFKLLAEKVEEIVAKNARAEIDYSDAPDEFRDPLMDTLMTDPVRLPSGTIMDRSIILRHLLNSPTDPFNRQTLTESMLEPVPELKEQIQAWMREKQNSDH |
| 2244 | sp|P98156|VLDLR\_MOUSE | MGTSARWALWLLLALCWAPRDSGATASGKKAKCDSSQFQCTNGRCITLLWKCDGDEDCADGSDEKNCVKKTCAESDFVCKNGQCVPNRWQCDGDPDCEDGSDESPEQCHMRTCRINEISCGARSTQCIPVSWRCDGENDCDNGEDEENCGNITCSADEFTCSSGRCVSRNFVCNGQDDCDDGSDELDCAPPTCGAHEFQCSTSSCIPLSWVCDDDADCSDQSDESLEQCGRQPVIHTKCPTSEIQCGSGECIHKKWRCDGDPDCKDGSDEVNCPSRTCRPDQFECEDGSCIHGSRQCNGIRDCVDGSDEVNCKNVNQCLGPGKFKCRSGECIDMSKVCDQEQDCRDWSDEPLKECHINECLVNNGGCSHICKDLVIGYECDCAAGFELIDRKTCGDIDECQNPGICSQICINLKGGYKCECSRGYQMDLATGVCKAVGKEPSLIFTNRRDIRKIGLERKEYIQLVEQLRNTVALDADIAAQKLFWADLSQKAIFSASIDDKVGRHFKMIDNVYNPAAIAVDWVYKTIYWTDAASKTISVATLDGAKRKFLFNSDLREPASIAVDPLSGFVYWSDWGEPAKIEKAGMNGFDRRPLVTEDIQWPNGITLDLVKSRLYWLDSKLHMLSSVDLNGQDRRIVLKSLEFLAHPLALTIFEDRVYWIDGENEAVYGANKFTGSELATLVNNLNDAQDIIVYHELVQPSGKNWCEDDMENGGCEYLCLPAPQINDHSPKYTCSCPNGYNLEENGRECQSTSTPVTYSETKDINTTDILRTSGLVPGGINVTTAVSEVSVPPKGTSAAWAILPLLLLVMAAVGGYLMWRNWQHKNMKSMNFDNPVYLKTTEEDLSIDIGRHSASVGHTYPAISVVSTDDDLA |
| 2245 | sp|P32563|VPH1\_YEAST | MAEKEEAIFRSAEMALVQFYIPQEISRDSAYTLGQLGLVQFRDLNSKVRAFQRTFVNEIRRLDNVERQYRYFYSLLKKHDIKLYEGDTDKYLDGSGELYVPPSGSVIDDYVRNASYLEERLIQMEDATDQIEVQKNDLEQYRFILQSGDEFFLKGDNTDSTSYMDEDMIDANGENIAAAIGASVNYVTGVIARDKVATLEQILWRVLRGNLFFKTVEIEQPVYDVKTREYKHKNAFIVFSHGDLIIKRIRKIAESLDANLYDVDSSNEGRSQQLAKVNKNLSDLYTVLKTTSTTLESELYAIAKELDSWFQDVTREKAIFEILNKSNYDTNRKILIAEGWIPRDELATLQARLGEMIARLGIDVPSIIQVLDTNHTPPTFHRTNKFTAGFQSICDCYGIAQYREINAGLPTIVTFPFMFAIMFGDMGHGFLMTLAALSLVLNEKKINKMKRGEIFDMAFTGRYIILLMGVFSMYTGFLYNDIFSKTMTIFKSGWKWPDHWKKGESITATSVGTYPIGLDWAWHGTENALLFSNSYKMKLSILMGFIHMTYSYFFSLANHLYFNSMIDIIGNFIPGLLFMQGIFGYLSVCIVYKWAVDWVKDGKPAPGLLNMLINMFLSPGTIDDELYPHQAKVQVFLLLMALVCIPWLLLVKPLHFKFTHKKKSHEPLPSTEADASSEDLEAQQLISAMDADDAEEEEVGSGSHGEDFGDIMIHQVIHTIEFCLNCVSHTASYLRLWALSLAHAQLSSVLWTMTIQIAFGFRGFVGVFMTVALFAMWFALTCAVLVLMEGTSAMLHSLRLHWVESMSKFFVGEGLPYEPFAFEYKDMEVAVASASSSASS |
| 2246 | sp|Q99NB8|UBQL4\_MOUSE | MAEPSGAETRPQIRVTVKTPKDKEEIVICDQASVKEFKEEISRRFKAQQDQLVLIFAGKILKDGDTLSQHGIKDGLTVHLVIKTPQKAQDPVTAAASPPSTPDSASAPSTTPASPAAAPVQPCSSGNTTSDAGSGGGPSPVAAEGPSSATASILSGFGGILGLGSLGLGSANFMELQQQMQRQLMSNPEMLSQIMENPLVQDMMSNPDLMRHMIMANPQMQQLMERNPEISHMLNNPELMRQTMELARNPAMMQEMMRNQDRALSNLESVPGGYNALRRMYTDIQEPMFTAAREQFGNNPFSSLAGNSDNSSSQPLRTENREPLPNPWSPSPPTSQAPGSGGEGTGGSGTSQVHPTVSNPFGINAASLGSGMFNSPEMQALLQQISENPQLMQNVISAPYMRTMMQTLAQNPDFAAQMMVNVPLFAGNPQLQEQLRLQLPVFLQQMQNPESLSILTNPRAMQALLQIQQGLQTLQTEAPGLVPSLGSFGTPRTSVPLAGSNSGSSAEAPTSSPGVPATSPPSAGSNAQQQLMQQMIQLLSGSGNSQVPMPEVRFQQQLEQLNSMGFINREANLQALIATGGDINAAIERLLGSQLS |
| 2247 | sp|P91133|UBR1\_CAEEL | MIVDLIQSARQGEWAQVRQLLLKHWLVQVPEVFEVNSDLPWDNTAANERILGSQGEILLAPLVSAFVLDVRNTKSTLEAMNGIAGVDPARRGQICGHVFKNGELTYTCLDCATDGTCVMCLQCFEVSIHKSHKYKMHSSSGSGYCDCGDADAWTEGYACANHEKKDDEEAAVLAPELKKRCEQLVEIILQFSLSMITHKDDLKLPEIFEKMKPEVTNEAQQYLTVLYNDETHTYESVIKVLELYIHCTKDQAMLVATIVDREGRSAVKLGSKADCTKAKDDVQRKTARDPTSIRRSSNHNLPLSVKVMDTTLFALQNFSISLLTWLNTQMDVFPPLREIVGEILLSSKFALKKNYTRKMKSEDQRLVAGIIRNVMVLPDDEEEELFALDGRMDVDEMDDDDIGGEALQMEIDADDEEEITAALAGVSEHQESPGPSRDSSTFTMLENILLQDTQMWKAGRSILHQMLMRTVFMIYDQKVRFAKAFMLHYNEIYEDFIKDDHEMDVSVVGLSVQFMTVPSLARKLVAEDQAFSVISKAIRDQTDKFVKYYNDGKIARFDFTSRSFPPELRRSLHITRDMAYILNAVPSESDWNRELIDGFVQGFADFLLFLQHLQGMDEVKRQAVEHQVWESEWETAFNILLRLKDAISMIIGWAETNEEVHNRLMIMCLELMNRMPPVYTKSEEDTYELTVTINGESCRISHFDVLKSSTSVHQPVVRIIAGLFSASNYTGFLLNRSNNSHTSLNQERIKELINCKDETNLYELSLRVLVLCAQSNATLWRRNGFSLINQIHNYFSPLCRNEMFDRDVLMMQVGAALTPSTKFIFHLLHRFRLFKWATSEFEQDKANEKPAKPESEDLSKTLVMIAEEFIQCLILILCERYTYGVGKTRPMDQMKREVIHILCTGSHTFSHIQQKMSHDINSKRLSLHEAVNLVADFRKPLATTAGQFHCKESSLPTYSPFFMHYSKSDQSAAEQSQARVRAKMEKSVRACAPPILPDFQTFFERIPEILTTNVLIHVVRLIIDRTARRSRFSSDRLFHKTLYLIGIALNEEEKNPSFGFTQRAEESIGLLSLLEGLVGKPESSICPILLEVTVEKYRKLIKARAGVPEAAPAPENKPAQSEEEIKAKRAARAAEMRQKAMAKMSNMQSKFMKKIEDEEKKDESQTPSEKSETVVKKDDYDNKHFFDEDVVKQVGHDFPVCIGANKWHAELVKPRTLTCILCQEDEIIAPQQGKPMVCAAFIQQSQLFTHKNKNGELMTASSGTISTRDLLTAPATLQYGVDVSTCSHSMHYECYRSLAEANRSRESLRARQVGQHSHKMVDTENGEYQCPLCKRLSNAAIPVLPAYQLTNQNGFSTVSGAGKENFDTWVARVKRNLEMPLSSESVSKKGHSRKRSHSERSLLDLEKLSKDPDTANTSAGVLQFGAMEMSSATHMPASAESQMLMTTSPSQDDVEFYNELAAMFVDQDVNNTTSPAATPETIPAIGSSSRIPESQESGKKPLSSQIQHVLYSLIRPFPALINSNRICSSSFEGFEEPIKDLGKNMMKFRKRGNELKTNFIEKHLKGYVISTVTWQSTAHVARAISSYLHYDKKPLFGALNTRQRDCLSAMARLCASLSHNMQFLLHAVSDMLRVFLCEPPRPKLAQTPGSPLLSAPSTSSFTPAPAQIPHSGTNFAFLVQLFNPAGPRKNVNLNILQIDILSLAISLMMTIGWTWNNGTQSMNSSSTHQKARLLTPDGSVDEAYVLRLSLLAHYFQIIATHSEADGNDVNMEEEQESQMEVDPVAAQTIRKLYALCHPFDGPLRRVDILWRKMEEGAQSLLRPIALLYHFITLVDPPEALKDPSINSSEPLFRYLGLPHKIEEQISGSMLEKLFTMWSSSIPSDQALRQDLVVQPVRPNLLVELPEKYSQLINQVATFKCPTIPIEESTSNVPTLCLVCGTILCSQAYCCQKIINKQSYGACRYHMSQCSGSVGMFLRVRDCSLVLMTTRKRGCFRPAPYVDEFGEVDQGFRRGNPLHLNPELYQKLKSLWLQQGITEEVVNYNEIDFRNVQYDWGHF |
| 2248 | sp|Q9UPT9|UBP22\_HUMAN | MVSRPEPEGEAMDAELAVAPPGCSHLGSFKVDNWKQNLRAIYQCFVWSGTAEARKRKAKSCICHVCGVHLNRLHSCLYCVFFGCFTKKHIHEHAKAKRHNLAIDLMYGGIYCFLCQDYIYDKDMEIIAKEEQRKAWKMQGVGEKFSTWEPTKRELELLKHNPKRRKITSNCTIGLRGLINLGNTCFMNCIVQALTHTPLLRDFFLSDRHRCEMQSPSSCLVCEMSSLFQEFYSGHRSPHIPYKLLHLVWTHARHLAGYEQQDAHEFLIAALDVLHRHCKGDDNGKKANNPNHCNCIIDQIFTGGLQSDVTCQVCHGVSTTIDPFWDISLDLPGSSTPFWPLSPGSEGNVVNGESHVSGTTTLTDCLRRFTRPEHLGSSAKIKCSGCHSYQESTKQLTMKKLPIVACFHLKRFEHSAKLRRKITTYVSFPLELDMTPFMASSKESRMNGQYQQPTDSLNNDNKYSLFAVVNHQGTLESGHYTSFIRQHKDQWFKCDDAIITKASIKDVLDSEGYLLFYHKQFLEYE |
| 2249 | sp|Q14157|UBP2L\_HUMAN | MMTSVGTNRARGNWEQPQNQNQTQHKQRPQATAEQIRLAQMISDHNDADFEEKVKQLIDITGKNQDECVIALHDCNGDVNRAINVLLEGNPDTHSWEMVGKKKGVSGQKDGGQTESNEEGKENRDRDRDYSRRRGGPPRRGRGASRGREFRGQENGLDGTKSGGPSGRGTERGRRGRGRGRGGSGRRGGRFSAQGMGTFNPADYAEPANTDDNYGNSSGNTWNNTGHFEPDDGTSAWRTATEEWGTEDWNEDLSETKIFTASNVSSVPLPAENVTITAGQRIDLAVLLGKTPSTMENDSSNLDPSQAPSLAQPLVFSNSKQTAISQPASGNTFSHHSMVSMLGKGFGDVGEAKGGSTTGSQFLEQFKTAQALAQLAAQHSQSGSTTTSSWDMGSTTQSPSLVQYDLKNPSDSAVHSPFTKRQAFTPSSTMMEVFLQEKSPAVATSTAAPPPPSSPLPSKSTSAPQMSPGSSDNQSSSPQPAQQKLKQQKKKASLTSKIPALAVEMPGSADISGLNLQFGALQFGSEPVLSDYESTPTTSASSSQAPSSLYTSTASESSSTISSNQSQESGYQSGPIQSTTYTSQNNAQGPLYEQRSTQTRRYPSSISSSPQKDLTQAKNGFSSVQATQLQTTQSVEGATGSAVKSDSPSTSSIPPLNETVSAASLLTTTNQHSSSLGGLSHSEEIPNTTTTQHSSTLSTQQNTLSSSTSSGRTSTSTLLHTSVESEANLHSSSSTFSTTSSTVSAPPPVVSVSSSLNSGSSLGLSLGSNSTVTASTRSSVATTSGKAPPNLPPGVPPLLPNPYIMAPGLLHAYPPQVYGYDDLQMLQTRFPLDYYSIPFPTPTTPLTGRDGSLASNPYSGDLTKFGRGDASSPAPATTLAQPQQNQTQTHHTTQQTFLNPALPPGYSYTSLPYYTGVPGLPSTFQYGPAVFPVAPTSSKQHGVNVSVNASATPFQQPSGYGSHGYNTGVSVTSSNTGVPDISGSVYSKTQQSFEKQGFHSGTPAASFNLPSALGSGGPINPATAAAYPPAPFMHILTPHQQPHSQILHHHLQQDGQTGSGQRSQTSSIPQKPQTNKSAYNSYSWGAN |
| 2250 | sp|Q96JC1|VPS39\_HUMAN | MHDAFEPVPILEKLPLQIDCLAAWEEWLLVGTKQGHLLLYRIRKDVVPADVASPESGSCNRFEVTLEKSNKNFSKKIQQIHVVSQFKILVSLLENNIYVHDLLTFQQITTVSKAKGASLFTCDLQHTETGEEVLRMCVAVKKKLQLYFWKDREFHELQGDFSVPDVPKSMAWCENSICVGFKRDYYLIRVDGKGSIKELFPTGKQLEPLVAPLADGKVAVGQDDLTVVLNEEGICTQKCALNWTDIPVAMEHQPPYIIAVLPRYVEIRTFEPRLLVQSIELQRPRFITSGGSNIIYVASNHFVWRLIPVPMATQIQQLLQDKQFELALQLAEMKDDSDSEKQQQIHHIKNLYAFNLFCQKRFDESMQVFAKLGTDPTHVMGLYPDLLPTDYRKQLQYPNPLPVLSGAELEKAHLALIDYLTQKRSQLVKKLNDSDHQSSTSPLMEGTPTIKSKKKLLQIIDTTLLKCYLHTNVALVAPLLRLENNHCHIEESEHVLKKAHKYSELIILYEKKGLHEKALQVLVDQSKKANSPLKGHERTVQYLQHLGTENLHLIFSYSVWVLRDFPEDGLKIFTEDLPEVESLPRDRVLGFLIENFKGLAIPYLEHIIHVWEETGSRFHNCLIQLYCEKVQGLMKEYLLSFPAGKTPVPAGEEEGELGEYRQKLLMFLEISSYYDPGRLICDFPFDGLLEERALLLGRMGKHEQALFIYVHILKDTRMAEEYCHKHYDRNKDGNKDVYLSLLRMYLSPPSIHCLGPIKLELLEPKANLQAALQVLELHHSKLDTTKALNLLPANTQINDIRIFLEKVLEENAQKKRFNQVLKNLLHAEFLRVQEERILHQQVKCIITEEKVCMVCKKKIGNSAFARYPNGVVVHYFCSKEVNPADT |
| 2251 | sp|Q0WQF4|VP53A\_ARATH | MDKSSALEYINQMFPTEASLTGVEPLMQKIQGEIRRVDASILSAVRQQSNSGTKAKEDLADATRAVEELSHKIQEIKSKAEQSEAMVQEICRDIKKLDFAKKNITTTITALHRLTMLVSAVEQLQVMASKRQYKEAAAQLEAVNQLCNHFEAYRDVPKITELREKLNNIKQILKSHVFSDFSSLGTGKETEETNLLQKLSDSCLVVDALEPSVREELVNNFCSRELTSYEQIFEGAELAKLDKTERRYAWIKRRIRTNEEIWKIFPASWHVPYRLCIQFCKQTRKQVESILVNMKEKPVVAILLLALQSTVEFEKELEKKFGGGVPTKDIEDDIEEIGTWEDNSQNISKIRKKYEKKFAASQETEENGFQQEKTGNKDLSVTGAGFNFRGMISSCFEPHLTPYIELEEKTLMDDLEKIVQEESWDVEDGSQNNVLSSSTQLFSNIKKSLKRCNTLSKNQTLFNLFKVFQRVLKAYATKLFFKLPKGGTGIVAAATGMDGQIKVSERDERVICYIVNSAEYCHKTSGELAENVSEIIDPHYADGVDMSEVQDEFSAVITKALVTLVLGLETKFDTEMAVMTRVPWSTLESVGDQSGYVNGINTVLSGSIPVLGKLLTPVYFQFFLDKLASSLGPRFYANIFRCKQLSETGAQQMLLDTQAVKSILLEIPSLARQTSTAASYSKFVSREMSRAEALLKVILSPIDSVADTYRALFPEGTPMEFQRILELKGLKKADQQSILDDFNKHGPGFTQQSVAAAMPQPMPTPPAPPLAITNPATAAGFIANSEDVLTRAAALGRGAASTGFKKFIALTEAAKDRKDGPLRRLFNA |
| 2252 | sp|Q9STT2|VPS29\_ARATH | MVLVLALGDLHVPHRAADLPPKFKSMLVPGKIQHIICTGNLCIKEIHDYLKTICPDLHIVRGEFDEDARYPENKTLTIGQFKLGLCHGHQVIPWGDLDSLAMLQRQLGVDILVTGHTHQFTAYKHEGGVVINPGSATGAYSSINQDVNPSFVLMDIDGFRAVVYVYELIDGEVKVDKIEFKKPPTTSSGP |
| 2253 | sp|Q5MD89|VGFR3\_DANRE | MKRDFTFFCRIWIGIPFFSGLVNGFSMSPPTLDNTKDQLVINANDTLNITCRGQRILDWSWPEESLSKVEFTDRQGQQSPTDTPGYREIRLKECQGVAGKPYCKILILTNAQANDSGYYRCFYKDIKAVIDGTTAASIFVFVRDPEHPFIKRGDNDMETIFITDSETHIEVPCLVSDPDLKVTLFSLVPYPEPVDGSVVTWNNKKGWSIPRHIIQNTSTFIGFYCSISVQNSQHTSSIYVVQVIGLKFYEFKLFPEDSPVELMQGESLVLNCTALVDFNTGVDFQWDYPGKKENRLASLQPLRNVLDEATEISSILSIRNIHLDDSGYYTCWANTLEMKRELTTVVIVHEKPFISLDYRNGSVIEAKEGQKSVRLSVKVSAYPSPEIQWYKNGKLISSKNSSRFKVQQHSLQIRDVCKQDAGEYMLVLKNSPAALEKRLNFTLIVNVPPQIHEKEAAPPTNLYGKGTRQILTCTADGSPPASISWQWRPWSPCDLERTRRALRRRGGRDQSPFCHNWMDLDPEHAVNPIESIDTLTQMVDGKEKTVGRVVIQNASVPAMYKCLAENRVGKDERLIYFYVTTIPEGFDIEMEPSEDPLEQDLVQLKCNADNFTYENLRWYRLDPQTVPPELDCKSLHQYATFLEGQLSFQTTSNNWVLQLNITNIQLQDEGNYVCEVQNRRTGVKHCHRKYIPVKAMEAPRYRHNPTNHTVNVSESLQMNCDVEGTPFPQLSWFKDNQPLHQISGILLQDSNRTLSIQRVREEDAGLYTCSACNQKGCVQSSATVSVIGSDDKTNVEIVILIGTGVIAIFFWVLLLVIFCNVKRVNPADIKTGYLSIIMDPGEVPLEEQCEYLPYDSSQWEISRDRLRLGKVLGHGAFGKVIEASIFGHDKKSSANTVAVKMLKEGATASEHKALMSELKILIHIGNHLNVVNLLGACTKPNGPLMVIVEYCKYGNLSNFLRAKREFFLPYRDRSPKTQSQVRRMIEAGQASQSEHQPSTSSTNPPRVTVDDLWKTPLTIEDLICYSFQVARGMEFLASRKCIHRDLAARNILLSENNVVKICDFGLARDIYKDPDYVRKGNARLPLKWMAPESIFDKVYTSQSDVWSFGVLLWEIFSLGASPYPGIQIDEDFCKRLKDGTRMRAPDNASPEIYGIMLACWQGEPRERPTFPALVEILGDLLQENSLPEIPFNVSQSSEDDGFSQASSRPPSQEEIRLACNTLPTRYYNCVPFAGCVMVGPSSTCHSRVKTFEELPMEMTSHKTQHDSQTDSGMVLASDELERFEHKHRGAMLTTATTGQSTDRLISCPSVSSSGSGGGLLRPVFFTQLSGQTFYNNEYGHLSEEGVSDYFSSSDQAV |
| 2254 | sp|Q8NEZ2|VP37A\_HUMAN | MSWLFPLTKSASSSAAGSPGGLTSLQQQKQRLIESLRNSHSSIAEIQKDVEYRLPFTINNLTININILLPPQFPQEKPVISVYPPIRHHLMDKQGVYVTSPLVNNFTMHSDLGKIIQSLLDEFWKNPPVLAPTSTAFPYLYSNPSGMSPYASQGFPFLPPYPPQEANRSITSLSVADTVSSSTTSHTTAKPAAPSFGVLSNLPLPIPTVDASIPTSQNGFGYKMPDVPDAFPELSELSVSQLTDMNEQEEVLLEQFLTLPQLKQIITDKDDLVKSIEELARKNLLLEPSLEAKRQTVLDKYELLTQMKSTFEKKMQRQHELSESCSASALQARLKVAAHEAEEESDNIAEDFLEGKMEIDDFLSSFMEKRTICHCRRAKEEKLQQAIAMHSQFHAPL |
| 2255 | sp|Q3SZP7|VILI\_BOVIN | MTKLSAQVKGSLNITTPGVQIWRIEAMQMVPVPSNSFGSFFDGDCYVIQAIHKTGSNLSYDIHYWIGQASSQDEQGAAAIYTTQMDDFLKGRAVQHREVQGNESDTFRGYFKKGIVIRKGGVASGMKQVETNSYDIQRLLHVKGKRNVVAGEVEMSWKSFNRGDVFLLDLGKLIIQWNGPESNHMERLRGMNLAKEIRDQERGGRTYVGVVDGEDEKASPQLMEIMNHVLGQRKELKAAVADTVVEPALKAALKLYHVSDSEGKVVVREIATQPLTQDLLSHEDCYILDQGGLKIYVWKGKNANAQEKKEAMNQALNFIKAKQYPPSTQVELQNDGAESAVFQQLFQKWTVPNRTTGLGKTHTVGSVAKVEQVKFDAMSMHVQPQVAAQQKMVDDGSGEVQMWRIENLELVPVNTKWLGHFFGGDCYLLLYTYFINEKPHYLLYIWQGSQASQDEITASAYQAVILDQEYNNEPVQIRVPMGKEPPHLMSIFKGCMVVYQGGTSRANSVEPVPSTRLFQVRGTSANNTKAFEVSPRAASLNSNDVFILKTQSCCYLWCGKGCSGDEREMAKMVADTVSRTEKQVVVEGQEPANFWLALGGKAPYASTKRLQEENLVITPRLFECSNQTGRFLATEIPDFNQDDLEEDDVFLLDVWDQVFFWIGKNANEDEKKAAATTVQEYLKTHPGGRDLETPIIVVKQGHEPPTFTGWFLAWDPFKWNNSKSYEDLKAELGNSGDWSQITAELTSSKPEAFNANSNLSSGPLPIFPLEQLVNKPTEELPEGVDPSRREEHLSIEDFTRALGMTPSAFWALPRWKQQNLKKEKGLF |
| 2256 | sp|F4J8C6|VIP1L\_ARATH | MEMEEGASGVGEKIKIGVCVMEKKVFSAPMGEILDRLQSFGEFEILHFGDKVILEDPIESWPICDCLIAFHSSGYPLEKAQAYAALRKPFLVNELDPQYLLHDRRKVYEHLEMYGIPVPRYACVNRKVPNQDLHYFVEEEDFVEVHGERFWKPFVEKPVNGDDHSIMIYYPSSAGGGMKELFRKIGNRSSEFHPDVRRVRREGSYIYEEFMATGGTDVKVYTVGPEYAHAEARKSPVVDGVVMRNTDGKEVRYPVLLTPAEKQMAREVCIAFRQAVCGFDLLRSEGCSYVCDVNGWSFVKNSYKYYDDAACVLRKMCLDAKAPHLSSTLPPTLPWKVNEPVQSNEGLTRQGSGIIGTFGQSEELRCVIAVVRHGDRTPKQKVKLKVTEEKLLNLMLKYNGGKPRAETKLKSAVQLQDLLDATRMLVPRTRPGRESDSDAEDLEHAEKLRQVKAVLEEGGHFSGIYRKVQLKPLKWVKIPKSDGDGEEERPVEALMVLKYGGVLTHAGRKQAEELGRYFRNNMYPGEGTGLLRLHSTYRHDLKIYSSDEGRVQMSAAAFAKGLLDLEGQLTPILVSLVSKDSSMLDGLDNASIEMEAAKARLNEIVTSGTKMIDDDQVSSEDFPWMTDGAGLPPNAHELLRELVKLTKNVTEQVRLLAMDEDENLTEPYDIIPPYDQAKALGKTNIDSDRIASGLPCGSEGFLLMFARWIKLARDLYNERKDRFDITQIPDVYDSCKYDLLHNSHLDLKGLDELFKVAQLLADGVIPNEYGINPQQKLKIGSKIARRLMGKILIDLRNTREEALSVAELKESQEQVLSLSASQREDRNSQPKLFINSDELRRPGTGDKDEDDDKETKYRLDPKYANVKTPERHVRTRLYFTSESHIHSLMNVLRYCNLDESLLGEESLICQNALERLCKTKELDYMSYIVLRLFENTEVSLEDPKRFRIELTFSRGADLSPLRNNDDEAETLLREHTLPIMGPERLQEVGSCLSLETMEKMVRPFAMPAEDFPPASTPVGFSGYFSKSAAVLERLVNLFHNYKNSSSNGRS |
| 2257 | sp|O43314|VIP2\_HUMAN | MSEAPRFFVGPEDTEINPGNYRHFFHHADEDDEEEDDSPPERQIVVGICSMAKKSKSKPMKEILERISLFKYITVVVFEEEVILNEPVENWPLCDCLISFHSKGFPLDKAVAYAKLRNPFVINDLNMQYLIQDRREVYSILQAEGILLPRYAILNRDPNNPKECNLIEGEDHVEVNGEVFQKPFVEKPVSAEDHNVYIYYPTSAGGGSQRLFRKIGSRSSVYSPESNVRKTGSYIYEEFMPTDGTDVKVYTVGPDYAHAEARKSPALDGKVERDSEGKEVRYPVILNAREKLIAWKVCLAFKQTVCGFDLLRANGQSYVCDVNGFSFVKNSMKYYDDCAKILGNIVMRELAPQFHIPWSIPLEAEDIPIVPTTSGTMMELRCVIAVIRHGDRTPKQKMKMEVRHQKFFDLFEKCDGYKSGKLKLKKPKQLQEVLDIARQLLMELGQNNDSEIEENKPKLEQLKTVLEMYGHFSGINRKVQLTYLPHGCPKTSSEEEDSRREEPSLLLVLKWGGELTPAGRVQAEELGRAFRCMYPGGQGDYAGFPGCGLLRLHSTYRHDLKIYASDEGRVQMTAAAFAKGLLALEGELTPILVQMVKSANMNGLLDSDSDSLSSCQQRVKARLHEILQKDRDFTAEDYEKLTPSGSISLIKSMHLIKNPVKTCDKVYSLIQSLTSQIRHRMEDPKSSDIQLYHSETLELMLRRWSKLEKDFKTKNGRYDISKIPDIYDCIKYDVQHNGSLKLENTMELYRLSKALADIVIPQEYGITKAEKLEIAKGYCTPLVRKIRSDLQRTQDDDTVNKLHPVYSRGVLSPERHVRTRLYFTSESHVHSLLSILRYGALCNESKDEQWKRAMDYLNVVNELNYMTQIVIMLYEDPNKDLSSEERFHVELHFSPGAKGCEEDKNLPSGYGYRPASRENEGRRPFKIDNDDEPHTSKRDEVDRAVILFKPMVSEPIHIHRKSPLPRSRKTATNDEESPLSVSSPEGTGTWLHYTSGVGTGRRRRRSGEQITSSPVSPKSLAFTSSIFGSWQQVVSENANYLRTPRTLVEQKQNPTVGSHCAGLFSTSVLGGSSSAPNLQDYARTHRKKLTSSGCIDDATRGSAVKRFSISFARHPTNGFELYSMVPSICPLETLHNALSLKQVDEFLASIASPSSDVPRKTAEISSTALRSSPIMRKKVSLNTYTPAKILPTPPATLKSTKASSKPATSGPSSAVVPNTSSRKKNITSKTETHEHKKNTGKKK |
| 2258 | sp|Q698K8|VM2L4\_GLOBR | EDEAPKMCGVTQNWESYEPIKKASQSNLTPAHQRYIELVIVADHGMFTKYNGDSDKIREWVRQMVNTVDEIYSYMYIDVALAGLEIWSNEDLINVQPAAPHTLDSFGKWRERDLLHRIHHDNAMLLTAIDFDGPTIGLAYVGTMCKPKGSTGVVQDHSTINLRVAVTMAHEIGHNLGIHHDTGSCSCGGYSCIMSPVISHEPSKYFSDCSYTQCWDFIMNQKPQCILNKPLRTDTVSTPVSGNELLEAGEECDCGSPGNPCCDAATCKLRQGAQCAEGLCCDQCRFMKKGTVCRIARGDDMDDYCNGISAGCPRNPFHA |
| 2259 | sp|P16140|VATB\_YEAST | MVLSDKELFAINKKAVEQGFNVKPRLNYNTVSGVNGPLVILEKVKFPRYNEIVNLTLPDGTVRQGQVLEIRGDRAIVQVFEGTSGIDVKKTTVEFTGESLRIPVSEDMLGRIFDGSGRPIDNGPKVFAEDYLDINGSPINPYARIYPEEMISTGVSAIDTMNSIARGQKIPIFSASGLPHNEIAAQICRQAGLVRPTKDVHDGHEENFSIVFAAMGVNLETARFFKQDFEENGSLERTSLFLNLANDPTIERIITPRLALTTAEYLAYQTERHVLTILTDMSSYADALREVSAAREEVPGRRGYPGYMYTDLSTIYERAGRVEGRNGSITQIPILTMPNDDITHPIPDLTGYITEGQIFVDRQLHNKGIYPPINVLPSLSRLMKSAIGEGMTRKDHGDVSNQLYAKYAIGKDAAAMKAVVGEEALSIEDKLSLEFLEKFEKTFITQGAYEDRTVFESLDQAWSLLRIYPKEMLNRISPKILDEFYDRARDDADEDEEDPDTRSSGKKKDASQEESLI |
| 2260 | sp|Q5CCK4|VAL2\_ARATH | MESIKVCMNALCGAASTSGEWKKGWPMRSGDLASLCDKCGCAYEQSIFCEVFHAKESGWRECNSCDKRLHCGCIASRFMMELLENGGVTCISCAKKSGLISMNVSHESNGKDFPSFASAEHVGSVLERTNLKHLLHFQRIDPTHSSLQMKQEESLLPSSLDALRHKTERKELSAQPNLSISLGPTLMTSPFHDAAVDDRSKTNSIFQLAPRSRQLLPKPANSAPIAAGMEPSGSLVSQIHVARPPPEGRGKTQLLPRYWPRITDQELLQLSGQYPHLSNSKIIPLFEKVLSASDAGRIGRLVLPKACAEAYFPPISLPEGLPLKIQDIKGKEWVFQFRFWPNNNSRMYVLEGVTPCIQSMQLQAGDTVTFSRTEPEGKLVMGYRKATNSTATQMFKGSSEPNLNMFSNSLNPGCGDINWSKLEKSEDMAKDNLFLQSSLTSARKRVRNIGTKSKRLLIDSVDVLELKITWEEAQELLRPPQSTKPSIFTLENQDFEEYDEPPVFGKRTLFVSRQTGEQEQWVQCDACGKWRQLPVDILLPPKWSCSDNLLDPGRSSCSAPDELSPREQDTLVRQSKEFKRRRLASSNEKLNQSQDASALNSLGNAGITTTGEQGEITVAATTKHPRHRAGCSCIVCSQPPSGKGKHKPSCTCTVCEAVKRRFRTLMLRKRNKGEAGQASQQAQSQSECRDETEVESIPAVELAAGENIDLNSDPGASRVSMMRLLQAAAFPLEAYLKQKAISNTAGEQQSSDMVSTEHGSSSAAQETEKDTTNGAHDPVN |
| 2261 | sp|O35757|VEGFC\_RAT | MHLLCFLSLACSLLAAALIPGPREAPATVAAFESGLGFSEAEPDGGEVKGFEGKDLEEQLRSVSSVDELMSVLYPDYWKMYKCQLRKGGWQQPSLNMRTGDTVKLAAAHYNTEILKSIDNEWRKTQCMPREVCIDVGKEFGAATNTFFKPPCVSVYRCGGCCNSEGLQCMNTSTGYLSKTLFEITVPLSQGPKPVTISFANHTSCRCMSKLDVYRQVHSIIRRSLPATLPQCQAANKTCPANYVWNNYMCQCLAQQDFIFYSNVEDDSSNGFHDVCGPNKELDEDTCQCVCKGGLRPSSCGPHKELDRDSCQCVCKNKLFLNSCGANREFDENTCQCVCKRTCPRNQPLNPGKCACECTENTQKCFLKGKKFHHQTCSCYRRPCTNRLKHCDPGLSFSEEVCRCVPSYWKRPHLN |
| 2262 | sp|Q54NW7|VAM7A\_DICDI | MSQTDILYACVSYKGVCLVEHKIANGNFIDLARRLITKIPPTSKKIYTSENHNFHYISENDLAFLCLCHEKLGVQIPSEFLSDIRQQFIRSYGQSFSQNSPTATYDPFIRVLEERMKYYSNPKSNKMNLVMDQVSEAKGALTDAIEKTIHRGEKIEIIVDKTERLQSESFVFKSNSVALKRKLWWQNKKLAIAIGLVVCILIAVITLALLKYFKVI |
| 2263 | sp|Q5AJB1|VATA\_CANAL | MAGALENATKEIKRLSLEDTHESQYGQIYSVSGPVVVAENMIGCAMYELVKVGHDNLVGEVIRINGDKATIQVYEETAGVTVGDPVLRTGKPLSVELGPGLMETIYDGIQRPLKAIKDESQSIYIPRGIDVPALSRTTQYDFTPGKLKVGDHITGGDIFGSIYENSLLDDHKILLPPRARGTITSIAESGSYNVEDTVLEVEFDGKKHKYSMMHTWPVRVPRPVAEKLSADYPLLTGQRVLDSLFPCVQGGTTCIPGAFGCGKTVISQSLSKFSNSDVIIYVGCGERGNEMAEVLMEFPELYTEISGRKEPIMKRTTLVANTSNMPVAAREASIYTGITLAEYFRDQGKNVSMIADSSSRWAEALREISGRLGEMPADQGFPAYLGAKLASFYERAGKATALGSPDRIGSVSIVAAVSPAGGDFSDPVTTATLGITQVFWGLDKKLAQRKHFPSINTSVSYSKYTNVLNKYYDSNYPEFAQLRDKIREILSNAEELEQVVQLVGKSALSDSDKITLDVATLIKEDFLQQNGYSSYDAFCPIWKTFDMMRAFISYYDEAQKAVANGAQWSKLAESTSDVKHSVSSAKFFEPSRGQKEGEKEFSELLSTISERFAEASE |
| 2264 | sp|P03129|VE7\_HPV16 | MHGDTPTLHEYMLDLQPETTDLYCYEQLNDSSEEEDEIDGPAGQAEPDRAHYNIVTFCCKCDSTLRLCVQSTHVDIRTLEDLLMGTLGIVCPICSQKP |
| 2265 | sp|O48652|UVR3\_ARATH | MQRFCVCSPSSYRLNPITSMATGSGSLIWFRKGLRVHDNPALEYASKGSEFMYPVFVIDPHYMESDPSAFSPGSSRAGVNRIRFLLESLKDLDSSLKKLGSRLLVFKGEPGEVLVRCLQEWKVKRLCFEYDTDPYYQALDVKVKDYASSTGVEVFSPVSHTLFNPAHIIEKNGGKPPLSYQSFLKVAGEPSCAKSELVMSYSSLPPIGDIGNLGISEVPSLEELGYKDDEQADWTPFRGGESEALKRLTKSISDKAWVANFEKPKGDPSAFLKPATTVMSPYLKFGCLSSRYFYQCLQNIYKDVKKHTSPPVSLLGQLLWREFFYTTAFGTPNFDKMKGNRICKQIPWNEDHAMLAAWRDGKTGYPWIDAIMVQLLKWGWMHHLARHCVACFLTRGDLFIHWEQGRDVFERLLIDSDWAINNGNWMWLSCSSFFYQFNRIYSPISFGKKYDPDGKYIRHFLPVLKDMPKQYIYEPWTAPLSVQTKANCIVGKDYPKPMVLHDSASKECKRKMGEAYALNKKMDGKVDEENLRDLRRKLQKDEHEESKIRNQRPKLK |
| 2266 | sp|P48281|VDR\_MOUSE | MEAMAASTSLPDPGDFDRNVPRICGVCGDRATGFHFNAMTCEGCKGFFRRSMKRKALFTCPFNGDCRITKDNRRHCQACRLKRCVDIGMMKEFILTDEEVQRKREMIMKRKEEEALKDSLRPKLSEEQQHIIAILLDAHHKTYDPTYADFRDFRPPIRADVSTGSYSPRPTLSFSGDSSSNSDLYTPSLDMMEPASFSTMDLNEEGSDDPSVTLDLSPLSMLPHLADLVSYSIQKVIGFAKMIPGFRDLTSDDQIVLLKSSAIEVIMLRSNQSFTLDDMSWDCGSQDYKYDITDVSRAGHTLELIEPLIKFQVGLKKLNLHEEEHVLLMAICIVSPDRPGVQDAKLVEAIQDRLSNTLQTYIRCRHPPPGSHQLYAKMIQKLADLRSLNEEHSKQYRSLSFQPENSMKLTPLVLEVFGNEIS |
| 2267 | sp|P30518|V2R\_HUMAN | MLMASTTSAVPGHPSLPSLPSNSSQERPLDTRDPLLARAELALLSIVFVAVALSNGLVLAALARRGRRGHWAPIHVFIGHLCLADLAVALFQVLPQLAWKATDRFRGPDALCRAVKYLQMVGMYASSYMILAMTLDRHRAICRPMLAYRHGSGAHWNRPVLVAWAFSLLLSLPQLFIFAQRNVEGGSGVTDCWACFAEPWGRRTYVTWIALMVFVAPTLGIAACQVLIFREIHASLVPGPSERPGGRRRGRRTGSPGEGAHVSAAVAKTVRMTLVIVVVYVLCWAPFFLVQLWAAWDPEAPLEGAPFVLLMLLASLNSCTNPWIYASFSSSVSSELRSLLCCARGRTPPSLGPQDESCTTASSSLAKDTSS |
| 2268 | sp|P32366|VA0D\_YEAST | MEGVYFNIDNGFIEGVVRGYRNGLLSNNQYINLTQCDTLEDLKLQLSSTDYGNFLSSVSSESLTTSLIQEYASSKLYHEFNYIRDQSSGSTRKFMDYITYGYMIDNVALMITGTIHDRDKGEILQRCHPLGWFDTLPTLSVATDLESLYETVLVDTPLAPYFKNCFDTAEELDDMNIEIIRNKLYKAYLEDFYNFVTEEIPEPAKECMQTLLGFEADRRSINIALNSLQSSDIDPDLKSDLLPNIGKLYPLATFHLAQAQDFEGVRAALANVYEYRGFLETGNLEDHFYQLEMELCRDAFTQQFAISTVWAWMKSKEQEVRNITWIAECIAQNQRERINNYISVY |
| 2269 | sp|Q8NHE4|VA0E2\_HUMAN | MTAHSFALPVIIFTTFWGLVGIAGPWFVPKGPNRGVIITMLVATAVCCYLFWLIAILAQLNPLFGPQLKNETIWYVRFLWE |
| 2270 | sp|Q16864|VATF\_HUMAN | MAGRGKLIAVIGDEDTVTGFLLGGIGELNKNRHPNFLVVEKDTTINEIEDTFRQFLNRDDIGIILINQYIAEMVRHALDAHQQSIPAVLEIPSKEHPYDAAKDSILRRARGMFTAEDLR |
| 2271 | sp|Q99MA2|XPP2\_RAT | MAQAYWQCYPWLVLLCACAWSYPGPESLGREDVRDCSTNPPRLPVTAVNTTMRLAALRQQMEKSNLSAYIIPDTDAHMSEYIGKHDERRAWISGFTGSAGTAVVTKKKAAVWTDSRYWTQAERQMDCNWELHKEVSISSIVAWILAEVPDGENVGFDPFLFSVGSWENYDQELQDSNRHLLSITTNLVDVAWGSERPPVPSQPIYALPKEFTGSTWQEKVSAIRSYMQNHTMAPTGVLLSALDETAWLFNLRSSDIPYNPFFYSYTLLTDSSIRLFVNKSRFSLETLQYLNTNCTLPMCVQLEDYSQIRDGVKAYASGNVKILIGISYTTYGVYDVIPKEKLVTETYSPVMLIKAVKNSKEQALLKASHVRDAVAVIQYLVWLEKNVPKGTVDEFSGAEHIDQLRRNENFSSGPSFETISASGLNAALAHYSPTKELHRKLSLDEMYLVDSGGQYWDGTTDITRTVHWGTPTAFQKEAYTRVLMGNIDLSRLVFPAATSGRVVEAFARRALWEVGLNYGHGTGHGIGNFLCVHEWPVGFQYNNMAMAKGMFTSIEPGYYQDGEFGIRLEDVALVVEAKTKYPGTYLTFELVSFVPYDRNLIDVSLLSPEQLQYLNRYYQTIRENIGPELQRRQLLEEFAWLERHTEPLSASAPHTTSLASMWVASALAILSWSC |
| 2272 | sp|P47992|XCL1\_HUMAN | MRLLILALLGICSLTAYIVEGVGSEVSDKRTCVSLTTQRLPVSRIKTYTITEGSLRAVIFITKRGLKVCADPQATWVRDVVRSMDRKSNTRNNMIQTKPTGTQQSTNTAVTLTG |
| 2273 | sp|Q9GZL7|WDR12\_HUMAN | MAQLQTRFYTDNKKYAVDDVPFSIPAASEIADLSNIINKLLKDKNEFHKHVEFDFLIKGQFLRMPLDKHMEMENISSEEVVEIEYVEKYTAPQPEQCMFHDDWISSIKGAEEWILTGSYDKTSRIWSLEGKSIMTIVGHTDVVKDVAWVKKDSLSCLLLSASMDQTILLWEWNVERNKVKALHCCRGHAGSVDSIAVDGSGTKFCSGSWDKMLKIWSTVPTDEEDEMEESTNRPRKKQKTEQLGLTRTPIVTLSGHMEAVSSVLWSDAEEICSASWDHTIRVWDVESGSLKSTLTGNKVFNCISYSPLCKRLASGSTDRHIRLWDPRTKDGSLVSLSLTSHTGWVTSVKWSPTHEQQLISGSLDNIVKLWDTRSCKAPLYDLAAHEDKVLSVDWTDTGLLLSGGADNKLYSYRYSPTTSHVGA |
| 2274 | sp|C6KIE6|XLG2\_ARATH | MAAVIRKLLPFPSPNPKRDNRESDDDDETSSGYRIEYSFASEYKGPLIANVPRALPVEVDQIPTALPVSFSSLRSGISYPVAPLVMTKDTKRPPDSGIEKKNGFVDSAAGSSVVLIGRDVVSGSSSSSSSKRLDVPEEVKSPADFRLSPSSPLSASAREEDHLDDDRVSDVGPRAVRFVEPFQSSECDESSYVSDGESIAATHRAERKGKRGSCYRCQLGNRFTEKEVCIVCDAKYCFNCVRRAMGAMPEGRKCQACIGYRIDESKRASLGKCSRMLKRHLTDSELRQVMNAEITCKANQLPSRLIIVNDKPLSEDELYTLQTCPNPPKKLKPGHYWYDKVAGYWGKIGEKPSQIISPNNSIGGYISEKVSNGDTEIYINGREITKPELTMLKWAGVQCEGKPHFWVDSDGSYREEGQKHPIGNIWSKKRAKIACAVFSLPVPPASSAVEPYDVPLYEQKMLNKLLLIGSEKGGATTIYKQARSLYNVSFSLEDRERIKFIIQTNLYTYLAMVLEAHERFEKEMSNDQSSGNVGDETSAKPGNSINPRLKHFSDWVLKEKEDGNLKIFPPSSRENAQTVADLWRVPAIQATYKRLRDTLPRNAVYFLERILEISRSEYDPSDMDILQAEGLSSMEGLSCVDFSFPSTSQEESLESDYQHDTDMKYQLIRLNPRSLGENWKLLEMFEDADLVIFCVSLTDYAENIEDGEGNIVNKMLATKQLFENMVTHPSLANKRFLLVLTKFDLLEEKIEEVPLRTCEWFEDFNPLISQNQTSRHNPPMAQRAFHYIGYKFKRLYDSILEPVNMRGRSFKPKLFVCQVSLESDTVDNALRYAREILKWHVEETSMFQEMSTTSIEASSSS |
| 2275 | sp|Q7JW27|WASH1\_DROME | MEESPYLHSPYQVAIIATDLHHEDTIIQAAQSLDCLHKTINSIFERIDARLARNGSKVEDINNRVKRAQAKIDALVGSKRAIQIFAPARFPASDVLAPLPATFPQVAANPLMEQQVDQLPQGTYSSHSAADQKPDDADIFFHVRGDREQESPLVAERKITNRTAGLGILPAGGVRSVPSLMRFNTNEFAYGEDLNAWKRSLPPQNARRVASQSTQLTGEKQLAPAPHSLAHGTTKLATPAGDLRYNPAALAAPAIDVPLDLPDLPGIANDLQYEPVEEQTPIAPSQQFGDLPELPDLGLEEQDIIVQAIAAQTHIPGPVRRKSVGQCPSPVTAAPPPPPPPPPPPPPPPPAQTSAIPSPPPFPTKGAVKPLSPSLATPLNMPQPPPATEDPRSELMAAIRNAGGVHGGRLRSPAAAPLDVVDNSRSKAGGAVTGDLMADLHNKLMLRRKGISGSQNPVEATAGNPLMQQLSRVIPPPVQPRKGSKSSDEHSEDDEDGWN |
| 2276 | sp|Q8BH43|WASF2\_MOUSE | MPLVTRNIEPRHLCRQTLPSDTSELECRTNITLANVIRQLGSLSKYAEDIFGEICTQASAFASRVNSLAERVDRVQVKVTQLDPKEEEVSLQGINTRKAFRSSTTQDQKLFDRNSLPVPVLETYNSCDAPPPLNNLSPYRDDGKEALKFYTNPSYFFDLWKEKMLQDTKDIMKEKRKHRKEKKDNPNRGNVNPRKIKTRKEEWEKMKMGQEFVESKERLGPSGYSSTLVYQNGSIGSVENVDAASYPPPPQSDSASSPSPSFSEDNLPPPPAEFSYPADNQRGSVLAGPKRTSMVSPSHPPPAPPLSSPPGPKPGFAPPPAPPPPPPMSVPPPLPSMGFGSPGTPPPPSPPSFPPHPDFAAPPPPPPPPAADYPMPPPPLSQPSGGAPPPPPPPPPPGPPPLPFSGADGQPAAPPPPPPSEATKPKSSLPAVSDARSDLLSAIRQGFQLRRVEEQREQEKRDVVGNDVATILSRRIAVEYSDSEDDSSEFDEDDWSD |
| 2277 | sp|Q8BH57|WDR48\_MOUSE | MAAHHRQNTAGRRKVQVSYVIRDEVEKYNRNGVNALQLDPALNRLFTAGRDSIIRIWSVNQHKQDPYIASMEHHTDWVNDVVLCCNGKTLISASSDTTVKVWNAHKGFCMSTLRTHKDYVKALAYAKDKELVASAGLDRQIFLWDVNTLTALTASNNTVTTSSLSGNKDSIYSLAMNQLGTIIVSGSTEKVLRVWDPRTCAKLMKLKGHTDNVKALLLHRDGTQCLSGSSDGTIRLWSLGQQRCIATYRVHDEGVWALQVNDAFTHVYSGGRDRKIYCTDLRNPDIRVLICEEKAPVLKMELDRSADPPPAIWVATTKSTVNKWTLKGIHNFRASGDYDNDCTNPITPLCTQPDQVIKGGASIIQCHILNDKRHILTKDTNNNVAYWDVLKACKVEDLGKVDFEDEIKKRFKMVYVPNWFSVDLKTGMLTITLDESDCFAAWVSAKDAGFSSPDGSDPKLNLGGLLLQALLEYWPRTHVTPMDEEENEVNHVSGGQESRVQKGNGYFQVPPHTPVIFGEAGGRTLFRLLCRDSGGETEAMLLNETVPQWVIDITVDKNMPKFNKIPFYLQPHASSGAKTLKKDRLSASDMLQVRKVMEHVYEKIINLDNESQTTSSSNNEKPEQEKEEDIAVLAEEKIELLCQDQVLDPNMDLRTVKHFIWKSGGDLTLHYRQKST |
| 2278 | sp|Q27Q52|WNT5A\_RABIT | MKKSIGILSPGVALGTAGSAMSSKFFVMALAVFFSFAQVVIEANSWWSLGMNNPVQMSEVYIIGAQPLCSQLAGLSQGQKKLCHLYQDHMQYIGEGAKTGIKECQYQFRHRRWNCSTVDNTSVFGRVMQIGSRETAFTYAVSAAGVVNAMSRACREGELSTCGCSRAARPKDLPRDWLWGGCGDNIDYGYRFAKEFVDARERERIHAKGSYESARILMNLHNNEAGRRTVYNLADVACKCHGVSGSCSLKTCWLQLADFRKVGDALKEKYDSAAAMRLNSRGKLVQVNSRFNSPTTQDLVYIDPSPDYCVRNESTGSLGTQGRLCNKTSEGMDGCELMCCGRGYDQFKTVQTERCHCKFHWCCYVKCKKCTEIVDQFVCK |
| 2279 | sp|Q8VXZ5|XG113\_ARATH | MVEGWRNGFRDATNSKPLFVTIYATVIIGVLVSSFYVFSAIYSPTNGSSSFLSFPPLSTSGRIHSLPQENATLELPVAPPPPPQALPPPVLEEAQGNSLGKIWVSPPRDKKMPPLETFKLTKELFGERVKDNVIIVTFGNYAFMDFILTWVKHLTDLDLSNILVGAMDTKLLEALYWKGVPVFDMGSHMSTVDVGWGSPTFHKMGREKVILIDSVLPFGYELLMCDTDMVWLKNPMPYLARFPDADVLTSSDQVVPTVIDDSLDIWQQVGAAYNIGIFHWRPTESAKKLAKEWKEILLADDKVWDQNGFNEIVRRQLGPSVEGDSGLFYAYDGNLKVGILPASIFCSGHTYFVQAMYQQLRLEPYAVHTTFQYAGTEGKRHRLREGMVFYDPPEYYDSPGGFIAFKPSIPKSLLLDGKHTIESHFILVNHQMKQIRSALAIASLLNRTLVMPPIWCRLDRLWFGHPGTLQGSMTRQPFICPLDHVFEVNIMLKELPEEEFGPGIGIREYSFLDNPLLPKQVKESWLDVQLCQEGKEGCEASNNTSPSRVLKFPKRSNEDTFKAIFSSFDDVKVIKFSSIEDAFIGFSDKEREERFRRRVKRYVGIWCCEENKTPGHIYYDMYWDEKPGWKPVPPQTPEEDHPPL |
| 2280 | sp|Q9S7Y7|XYL1\_ARATH | MASSSSSLAFSLSLLLALILCFSPTQSYKTIGKGYRLVSIEESPDGGFIGYLQVKQKNKIYGSDITTLRLFVKHETDSRLRVHITDAKQQRWEVPYNLLPREQPPQVGKVIGKSRKSPITVQEISGSELIFSYTTDPFTFAVKRRSNHETLFNTTSSLVFKDQYLEISTSLPKEASLYGLGENSQANGIKLVPNEPYTLYTEDVSAINLNTDLYGSHPMYMDLRNVGGKAYAHAVLLLNSNGMDVFYRGDSLTYKVIGGVFDFYFIAGPSPLNVVDQYTQLIGRPAPMPYWSLGFHQCRWGYHNLSVVEDVVDNYKKAKIPLDVIWNDDDHMDGHKDFTLNPVAYPRAKLLAFLDKIHKIGMKYIVINDPGIGVNASYGTFQRAMAADVFIKYEGKPFLAQVWPGPVYFPDFLNPKTVSWWGDEIKRFHDLVPIDGLWIDMNEVSNFCSGLCTIPEGKQCPSGEGPGWVCCLDCKNITKTRWDDPPYKINATGVVAPVGFKTIATSATHYNGVREYDAHSIYGFSETIATHKGLLNVQGKRPFILSRSTFVGSGQYAAHWTGDNQGTWQSLQVSISTMLNFGIFGVPMVGSDICGFYPQPTEELCNRWIEVGAFYPFSRDHANYYSPRQELYQWDTVADSARNALGMRYKILPFLYTLNYEAHMTGAPIARPLFFSFPEYTECYGNSRQFLLGSSFMISPVLEQGKTEVEALFPPGSWYHMFDMTQAVVSKNGKRVTLPAPLNFVNVHLYQNTILPTQQGGLISKDARTTPFSLVIAFPAGASEGYATGKLYLDEDELPEMKLGNGQSTYVDFYASVGNGTMKMWSQVKEGKFALSKGWVIEKVSVLGLRGAGQVSEIQINGSPMTKKIEVSSKEHTYVIGLEDEEENKSVMVEVRGLEMLVGKDFNMSWKMGIN |
| 2281 | sp|O35468|WNT9B\_MOUSE | MRPAPALALAALCLLVLPAAAAAAAYFGLTGREVLTPFPGLGTAAAPAQAGAHLKQCDLLKLSRRQKQLCRREPGLAETLRDAAHLGLLECQFQFRQERWNCSLEGRTGLLQRGFKETAFLYAVSAAALTHALARACSAGRMERCTCDDSPGLESRQAWQWGVCGDNLKYSTKFLSNFLGPKRGSKDLRARADAHNTHVGIKAVKSGLRTTCKCHGVSGSCAVRTCWKQLSPFRETGQVLKLRYDTAVKVSSATNEALGRLELWAPAKPGGPAKGLAPRPGDLVYMEDSPSFCRPSKYSPGTAGRVCSRDSSCSSLCCGRGYDTQSRMVVFSCHCQVQWCCYVECQQCAQQELVYTCKR |
| 2282 | sp|Q9D806|VSTM5\_MOUSE | MRPLRCGERTQGIPLGLLAFWVTAARCLQSQGVSLYIPQSAINATVQQDILLSVDYICHGVPTIEWKYTPNWGVQRIVEWKPGTPANVSQSHRDRVCTFDNGSIQLFNVSVKDSGYYIVTVTEHPGSSQSGTILLRVSEIRYEDLHFVAVFFALLAAVAVVLISLMWVCNQCAYKFQRKRRYKLKESTTEEIEMKEVEC |
| 2283 | sp|P10090|WHITE\_DROME | MGQEDQELLIRGGSKHPSAEHLNNGDSGAASQSCINQGFGQAKNYGTLLPPSPPEDSGSGSGQLAENLTYAWHNMDIFGAVNQPGSGWRQLVNRTRGLFCNERHIPAPRKHLLKNVCGVAYPGELLAVMGSSGAGKTTLLNALAFRSPQGIQVSPSGMRLLNGQPVDAKEMQARCAYVQQDDLFIGSLTAREHLIFQAMVRMPRHLTYRQRVARVDQVIQELSLSKCQHTIIGVPGRVKGLSGGERKRLAFASEALTDPPLLICDEPTSGLDSFTAHSVVQVLKKLSQKGKTVILTIHQPSSELFELFDKILLMAEGRVAFLGTPSEAVDFFSYVGAQCPTNYNPADFYVQVLAVVPGREIESRDRIAKICDNFAISKVARDMEQLLATKNLEKPLEQPENGYTYKATWFMQFRAVLWRSWLSVLKEPLLVKVRLIQTTMVAILIGLIFLGQQLTQVGVMNINGAIFLFLTNMTFQNVFATINVFTSELPVFMREARSRLYRCDTYFLGKTIAELPLFLTVPLVFTAIAYPMIGLRAGVLHFFNCLALVTLVANVSTSFGYLISCASSSTSMALSVGPPVIIPFLLFGGFFLNSGSVPVYLKWLSYLSWFRYANEGLLINQWADVEPGEISCTSSNTTCPSSGKVILETLNFSAADLPLDYVGLAILIVSFRVLAYLALRLRARRKE |
| 2284 | sp|Q8TF74|WIPF2\_HUMAN | MPIPPPPPPPPGPPPPPTFHQANTEQPKLSRDEQRGRGALLQDICKGTKLKKVTNINDRSAPILEKPKGSSGGYGSGGAALQPKGGLFQGGVLKLRPVGAKDGSENLAGKPALQIPSSRAAAPRPPVSAASGRPQDDTDSSRASLPELPRMQRPSLPDLSRPNTTSSTGMKHSSSAPPPPPPGRRANAPPTPLPMHSSKAPAYNREKPLPPTPGQRLHPGREGPPAPPPVKPPPSPVNIRTGPSGQSLAPPPPPYRQPPGVPNGPSSPTNESAPELPQRHNSLHRKTPGPVRGLAPPPPTSASPSLLSNRPPPPARDPPSRGAAPPPPPPVIRNGARDAPPPPPPYRMHGSEPPSRGKPPPPPSRTPAGPPPPPPPPLRNGHRDSITTVRSFLDDFESKYSFHPVEDFPAPEEYKHFQRIYPSKTNRAARGAPPLPPILR |
| 2285 | sp|O88967|YMEL1\_MOUSE | MFSLSSTVQPQVTIPLSHLINAFHSPKNISVSVNTPVSQKQHRDTVPEHEAPSSEPVLNLRDLGLSELKIGQIDKMVENLLPGFYKDKRVSSCWHTSHISAQSFFENKYGHLDMFSTLRSSSLYRQHPKTLRSICSDLQYFPVFIQSRGFKTLKSRTRRLQSTSERLVEAQNIAPSFVKGFLLRDRGTDLESLDKLMKTKNIPEAHQDAFKTGFAEGFLKAQALTQKTNDSLRRTRLILFVLLLFGIYGLLKNPFLSVRFRTTTGLDSAVDPVQMKNVTFEHVKGVEEAKQELQEVVEFLKNPQKFTVLGGKLPKGILLVGPPGTGKTLLARAVAGEADVPFYYASGSEFDEMFVGVGASRIRNLFREAKANAPCVIFIDELDSVGGKRIESPMHPYSRQTINQLLAEMDGFKPNEGVIIIGATNFPEALDNALIRPGRFDMQVTVPRPDVKGRTEILKWYLNKIKFDKSVDPEIIARGTVGFSGAELENLVNQAALKAAVDGKEMVTMKELEFSKDKILMGPERRSVEIDNKNKTITAYHESGHAIIAYYTKDAMPINKATIMPRGPTLGHVSLLPENDRWNETRAQLLAQMDVSMGGRVAEELIFGTDHITTGASSDFDNATKIAKRMVTKFGMSEKLGVMTYSDTGKLSPETQSAIEQEIRILLRESYERAKHILKTHAKEHKNLAEALLTYETLDAKEIQIVLEGKKLEVR |
| 2286 | sp|Q12113|YO21B\_YEAST | MESQQLSQNSPTFHGSAYASVTSKEVPSNQDPLAVSASNLPEFDRDSTKVNSQQETTPGTSAVPENHHHVSPQPASVPPPQNGQYQQHGMMTPNKAMASNWAHYQQPSMMTCSHYQTSPAYYQPDPHYPLPQYIPPLSTSSPDPIGSQDQHSEVPQAKTKVRNNVLPPHTLTSEENFSTWVKFYIRFLKNSNLGDIIPNDQGEIKRQMTYEEHAYIYNTFQAFAPFHLLPTWVKQILEINYSDILTVLCKSVSKMQTNNQELKDWIALANLEYNGSTSADTFEITVSTIIQRLKENNINVSDRLACQLILKGLSGDFKYLRNQYRTKTNMKLSQLFAEIQLIYDENKIMNLNKPSQYKQHSEYKNVSRTSPNTTNTKVTTRNYHRTNSSKPRAAKAHNIATSSKFSRVNNDHINESTVSSQYLSDDNELSLGQQQKESKPTRTIDSNDELPDHLLIDSGASQTLVRSAHYLHHATPNSEINIVDAQKQDIPINAIGNLHFNFQNGTKTSIKALHTPNIAYDLLSLSELANQNITACFTRNTLERSDGTVLAPIVKHGDFYWLSKKYLIPSHISKLTINNVNKSKSVNKYPYPLIHRMLGHANFRSIQKSLKKNAVTYLKESDIEWSNASTYQCPDCLIGKSTKHRHVKGSRLKYQESYEPFQYLHTDIFGPVHHLPKSAPSYFISFTDEKTRFQWVYPLHDRREESILNVFTSILAFIKNQFNARVLVIQMDRGSEYTNKTLHKFFTNRGITACYTTTADSRAHGVAERLNRTLLNDCRTLLHCSGLPNHLWFSAVEFSTIIRNSLVSPKNDKSARQHAGLAGLDITTILPFGQPVIVNNHNPDSKIHPRGIPGYALHPSRNSYGYIIYLPSLKKTVDTTNYVILQNKQTKLDQFDYDTLTFDDDLNRLTAHNQSFIEQNETEQSYDQNTESDHDYQSEIEINSDPLVNDFSSQSLNPLQLDKEPVQKVRAPKEVDADISEYNILPSTIRSRTPHIINKESTEMGGTIESDTTSPRHSSTFTARNQKRPGSPNDMIDLTSQDRVNYGLENIKTTRLGGTEEPYIQRNSDTNIKYRTTNSTPSIDDRSSNSESTTPIISIETKAACDNTPSIDTDPPEYRSSDHATPNIMPDKSSKNVTADSILDDLPLPDLTHQSPTDTSDVSKDIPHIHSRQTNSSLGGMDDSNVLTTTKSKKRSLEDNETEIEVSRDTWNNKNMRSLEPPRSKKRINLIAAIKGVKSIKPVRTTLRYDEAITYNKDNKEKDRYVEAYHKEISQLLKMNTWDTNKYYDRNDIDPKKVINSMFIFNKKRDGTHKARFVARGDIQHPDTYDSDMQSNTVHHYALMTSLSIALDNDYYITQLDISSAYLYADIKEELYIRPPPHLGLNDKLLRLRKSLYGLKQSGANWYETIKSYLINCCDMQEVRGWSCVFKNSQVTICLFVDDMILFSKDLNANKKIITTLKKQYDTKIINLGEGDNEIQYDILGLEIKYQRSKYMKLGMEKSLTEKLPKLNVPLNPKGKKLRAPGQPGHYIDQDELEIDEDEYKEKVHEMQKLIGLASYVGYKFRFDLLYYINTLAQHILFPSRQVLDMTYELIQFMWDTRDKQLIWHKNKPTKPDNKLVAISDASYGNQPYYKSQIGNIFLLNGKVIGGKSTKASLTCTSTTEAEIHAVSEAIPLLNNLSHLVQELNKKPIIKGLLTDSRSTISIIKSTNEEKFRNRFFGTKAMRLRDEVSGNNLYVYYIETNKNIADVMTKPLPIKTFKLLTNKWIH |
| 2287 | sp|A0A0B7P3V8|YP41B\_YEAST | MATPVRDETRNVIDDNISARIQSKVKTNDTVRQTPSSLRKVSIKDEQVKQYQRNLNRFKTILNGLKAEEEKLSETDDIQMLAEKLLKLGETIDKVENRIVDLVEKIQLLETNENNNILHEHIDATGTYYLFDTLTSTNKRFYPKDCVFDYRTNNVENIPILLNNFKKFIKKYQFDDVFENDIIEIDPRENEILCKIIKEGLGESLDIMNTNTTDIFRIIDGLKNKYRSLHGRDVRIRAWEKVLVDTTCRNSALLMNKLQKLVLMEKWIFSKCCQDCPNLKDYLQEAIMGTLHESLRNSVKQRLYNIPHNVGINHEEFLINTVIETVIDLSPIADDQIENSCMYCKSVFHCSINCKKKPNRELRPDSTNFSKTYYLQGAQRQQQLKSSAKEQKSWNKTQKKSNKVYNSKKLVIIDTGSGVNITNDKTLLHNYEDSNRSTRFFGIGKNSSVSVKGYGYIKIKNGHNNTDNKCLLTYYVPEEESTIISCYDLAKKTKMVLSRKYTRLGNKIIKIKTKIVNGVIHVKMNELIERPSDDSKINAIKPTSSPGFKLNKRSITLEDAHKRMGHTGIQQIENSIKHNHYEESLDLIKEPNEFWCQTCKISKATKRNHYTGSMNNHSTDHEPGSSWCMDIFGPVSSSNADTKRYMLIMVDNNTRYCMTSTHFNKNAETILAQIRKNIQYVETQFDRKVREINSDRGTEFTNDQIEEYFISKGIHHILTSTQDHAANGRAERYIRTIVTDATTLLRQSNLRVKFWEYAVTSATNIRNCLEHKSTGKLPLKAISRQPVTVRLMSFLPFGEKGIIWNHNHKKLKPSGLPSIILCKDPNSYGYKFFIPSKNKIVTSDNYTIPNYTMDGRVRNTQNIYKSHQFSSHNDNEEDQIETVTNLCEALENYEDDNKPITRLEDLFTEEELSQIDSNAKYPSPSNNLEGDLDYVFSDVEESGDYDVESELSTTNTSISTDKNKILSNKDFNSELASTEISISEIDKKGLINTSHIDEDKYDEKVHRIPSIIQEKLVGSKNTIKINDENRISDRIRSKNIGSILNTGLSRCVDITDESITNKDESMHNAKPELIQEQFNKTNHETSFPKEGSIGTKCKIPKYRQ |
| 2288 | sp|O95229|ZWINT\_HUMAN | MEAAETEAEAAALEVLAEVAGILEPVGLQEEAELPAKILVEFVVDSQKKDKLLCSQLQVADFLQNILAQEDTAKGLDPLASEDTSRQKAIAAKEQWKELKATYREHVEAIKIGLTKALTQMEEAQRKRTQLREAFEQLQAKKQMAMEKRRAVQNQWQLQQEKHLQHLAEVSAEVRERKTGTQQELDRVFQKLGNLKQQAEQERDKLQRYQTFLQLLYTLQGKLLFPEAEAEAENLPDDKPQQPTRPQEQSTGDTMGRDPGVSFKAVGLQPAGDVNLP |
| 2289 | sp|P21541|ZYG11\_CAEEL | MDHNAALTTCSTSAIPRLARLATERIAELIENDALPEFDHKVIASCSNDIFEVLRQKKKLNHQTLQTMCSTSRFQINKIDLMGNKVELQDLELCSNQNLVSFRLGDIDYFPNTNKIQVADVLDTALNRTSRQQLRHLDLSGRHRITSNWPTYVARKLPRLESLAFANRSTANETLSQIGASLLNLRFLDISSTCVTDISCISSLRNLEVLIMYNLNILKGDVTETLSNLTKLRVLDISRKVNTDYLQETSQDAHLDLALGIYNRSVEAIESGTATPWAELRAIDMSGLSIVQFGTDRALAFVEKIIEAHPKLEQISLLATPLDSSLIEIPNRNLQVINTVSRRSIIFALSHYANLDRPAFITHALHSVYYQLQSGYDKFSQEELKECLRLVCISMQQGLNTLPVQIAGSACLYHLCKMKRIKRLSVKEVNNCIERSLDAAEQYRSMTQLQKNVWLTICNDYLLHLDEIDFYRTCKVALDTMLLNRDASVERMTIAIVSIVTPKMRPSEAKILTTETKYVYHLVKIMNDYLEAYTREHRVGHERDNENALYTLKFTLSALWNLTDECPATCKAFLDAGGVQIAFRILKAFDYHGNVQTKVLGILNNLAEVEELHLGQLCKNEYISVLISCLDGSFNEVDSKGRYREVERSYFAAGILANLLTNTDGWESENQRDEACEKLLELIEQYPTLPSAMVSYKSFIPFSRIVRESNSNGAIMWCLWGVHHVLQHREKNKAPTYEKGYIEMFMDSGLSPIVEDMSHGHSKHIHNLDIRVVHLAREIIDIVSCHSLSSSPVRLVRRV |
| 2290 | sp|Q8IVQ6|ZDH21\_HUMAN | MGLRIHFVVDPHGWCCMGLIVFVWLYNIVLIPKIVLFPHYEEGHIPGILIIIFYGISIFCLVALVRASITDPGRLPENPKIPHGEREFWELCNKCNLMRPKRSHHCSRCGHCVRRMDHHCPWINNCVGEDNHWLFLQLCFYTELLTCYALMFSFCHYYYFLPLKKRNLDLFVFRHELAIMRLAAFMGITMLVGITGLFYTQLIGIITDTTSIEKMSNCCEDISRPRKPWQQTFSEVFGTRWKILWFIPFRQRQPLRVPYHFANHV |
| 2291 | sp|P17027|ZNF23\_HUMAN | MLENYGNVASLGFPLLKPAVISQLEGGSELGGSSPLAAGTGLQGLQTDIQTDNDLTKEMYEGKENVSFELQRDFSQETDFSEASLLEKQQEVHSAGNIKKEKSNTIDGTVKDETSPVEECFFSQSSNSYQCHTITGEQPSGCTGLGKSISFDTKLVKHEIINSEERPFKCEELVEPFRCDSQLIQHQENNTEEKPYQCSECGKAFSINEKLIWHQRLHSGEKPFKCVECGKSFSYSSHYITHQTIHSGEKPYQCKMCGKAFSVNGSLSRHQRIHTGEKPYQCKECGNGFSCSSAYITHQRVHTGEKPYECNDCGKAFNVNAKLIQHQRIHTGEKPYECNECGKGFRCSSQLRQHQSIHTGEKPYQCKECGKGFNNNTKLIQHQRIHTGEKPYECTECGKAFSVKGKLIQHQRIHTGEKPYECNECGKAFRCNSQFRQHLRIHTGEKPYECNECGKAFSVNGKLMRHQRIHTGEKPFECNECGRCFTSKRNLLDHHRIHTGEKPYQCKECGKAFSINAKLTRHQRIHTGEKPFKCMECEKAFSCSSNYIVHQRIHTGEKPFQCKECGKAFHVNAHLIRHQRSHTGEKPFRCVECGKGFSFSSDYIIHQTVHTWKKPYMCSVCGKAFRFSFQLSQHQSVHSEGKS |
| 2292 | sp|P36508|ZNF76\_HUMAN | MESLGLHTVTLSDGTTAYVQQAVKGEKLLEGQVIQLEDGTTAYIHQVTVQKEALSFEDGQPVQLEDGSMAYIHRTPREGYDPSTLEAVQLEDGSTAYIHHPVAVPSESTILAVQTEVGLEDLAAEDDEGFSADAVVALEQYASKVLHDSQIPRNGKGQQVGDRAFRCGYKGCGRLYTTAHHLKVHERAHTGDRPYRCDFPSCGKAFATGYGLKSHVRTHTGEKPYKCPEELCSKAFKTSGDLQKHVRTHTGERPFQCPFEGCGRSFTTSNIRKVHVRTHTGERPYTCPEPHCGRGFTSATNYKNHVRIHTGEKPYVCTVPGCGKRFTEYSSLYKHHVVHTHCKPYTCSTCGKTYRQTSTLAMHKRSAHGELEATEESEQALYEQQQLEAASAAEESPPPKRPRIAYLSEVKEERDDIPAQVAMVTEEDGAPQVALITQDGAQQVSLSPEDLQALGSAISMVTQHGSTTLTIPSPDADLATSGTHTVTMVSADGTQTQPVTIITSGAVVAEDSSVASLRHQQVALLATANGTHIAVQLEEQQTLEEAINVATAAMQQGAVTLETTVSESGC |
| 2293 | sp|Q15911|ZFHX3\_HUMAN | MEGCDSPVVSGKDNGCGIPQHQQWTELNSTHLPDKPSSMEQSTGESHGPLDSLRAPFNERLAESTASAGPPSEPASKEVTCNECSASFASLQTYMEHHCPSARPPPPLREESASDTGEEGDEESDVENLAGEIVYQPDGSAYIVESLSQLTQGGGACGSGSGSGPLPSLFLNSLPGAGGKQGDPSCAAPVYPQIINTFHIASSFGKWFEGPDQAFPNTSALAGLSPVLHSFRVFDVRHKSNKDYLNSDGSAKSSCVSKDVPNNVDLSKFDGFVLYGKRKPILMCFLCKLSFGYVRSFVTHAVHDHRMTLSEDERKILSNKNISAIIQGIGKDKEPLVSFLEPKNKNFQHPLVSTANLIGPGHSFYGKFSGIRMEGEEALPAGSAAGPEQPQAGLLTPSTLLNLGGLTSSVLKTPITSVPLGPLASSPTKSSEGKDSGAAEGEKQEVGDGDCFSEKVEPAEEEAEEEEEEEEAEEEEEEEEEEEEEEEDEGCKGLFPSELDEELEDRPHEEPGAAAGSSSKKDLALSNQSISNSPLMPNVLQTLSRGTASTSSNSASSFVVFDGANRRNRLSFNSEGVRANVAEGGRRLDFADESANKDNATAPEPNESTEGDDGGFVPHHQHAGSLCELGVGECPSGSGVECPKCDTVLGSSRSLGGHMTMMHSRNSCKTLKCPKCNWHYKYQQTLEAHMKEKHPEPGGSCVYCKSGQPHPRLARGESYTCGYKPFRCEVCNYSTTTKGNLSIHMQSDKHLNNMQNLQNGGGEQVFSHTAGAAAAAVAAAAAAANISSSCGAPSPTKPKTKPTWRCEVCDYETNVARNLRIHMTSEKHMHNMMLLQQNMTQIQHNRHLGLGSLPSPAEAELYQYYLAQNMNLPNLKMDSAASDAQFMMSGFQLDPAGPMAAMTPALVGGEIPLDMRLGGGQLVSEELMNLGESFIQTNDPSLKLFQCAVCNKFTTDNLDMLGLHMNVERSLSEDEWKAVMGDSYQCKLCRYNTQLKANFQLHCKTDKHVQKYQLVAHIKEGGKANEWRLKCVAIGNPVHLKCNACDYYTNSLEKLRLHTVNSRHEASLKLYKHLQQHESGVEGESCYYHCVLCNYSTKAKLNLIQHVRSMKHQRSESLRKLQRLQKGLPEEDEDLGQIFTIRRCPSTDPEEAIEDVEGPSETAADPEELAKDQEGGASSSQAEKELTDSPATSKRISFPGSSESPLSSKRPKTAEEIKPEQMYQCPYCKYSNADVNRLRVHAMTQHSVQPMLRCPLCQDMLNNKIHLQLHLTHLHSVAPDCVEKLIMTVTTPEMVMPSSMFLPAAVPDRDGNSNLEEAGKQPETSEDLGKNILPSASTEQSGDLKPSPADPGSVREDSGFICWKKGCNQVFKTSAALQTHFNEVHAKRPQLPVSDRHVYKYRCNQCSLAFKTIEKLQLHSQYHVIRAATMCCLCQRSFRTFQALKKHLETSHLELSEADIQQLYGGLLANGDLLAMGDPTLAEDHTIIVEEDKEEESDLEDKQSPTGSDSGSVQEDSGSEPKRALPFRKGPNFTMEKFLDPSRPYKCTVCKESFTQKNILLVHYNSVSHLHKLKRALQESATGQPEPTSSPDNKPFKCNTCNVAYSQSSTLEIHMRSVLHQTKARAAKLEAASGSSNGTGNSSSISLSSSTPSPVSTSGSNTFTTSNPSSAGIAPSSNLLSQVPTESVGMPPLGNPIGANIASPSEPKEANRKKLADMIASRQQQQQQQQQQQQQQQQQQQAQTLAQAQAQVQAHLQQELQQQAALIQSQLFNPTLLPHFPMTTETLLQLQQQQHLLFPFYIPSAEFQLNPEVSLPVTSGALTLTGTGPGLLEDLKAQVQVPQQSHQQILPQQQQNQLSIAQSHSALLQPSQHPEKKNKLVIKEKEKESQRERDSAEGGEGNTGPKETLPDALKAKEKKELAPGGGSEPSMLPPRIASDARGNATKALLENFGFELVIQYNENKQKVQKKNGKTDQGENLEKLECDSCGKLFSNILILKSHQEHVHQNYFPFKQLERFAKQYRDHYDKLYPLRPQTPEPPPPPPPPPPPPLPAAPPQPASTPAIPASAPPITSPTIAPAQPSVPLTQLSMPMELPIFSPLMMQTMPLQTLPAQLPPQLGPVEPLPADLAQLYQHQLNPTLLQQQNKRPRTRITDDQLRVLRQYFDINNSPSEEQIKEMADKSGLPQKVIKHWFRNTLFKERQRNKDSPYNFSNPPITSLEELKIDSRPPSPEPPKQEYWGSKRSSRTRFTDYQLRVLQDFFDANAYPKDDEFEQLSNLLNLPTRVIVVWFQNARQKARKNYENQGEGKDGERRELTNDRYIRTSNLNYQCKKCSLVFQRIFDLIKHQKKLCYKDEDEEGQDDSQNEDSMDAMEILTPTSSSCSTPMPSQAYSAPAPSANNTASSAFLQLTAEAEELATFNSKTEAGDEKPKLAEAPSAQPNQTQEKQGQPKPELQQQEQPEQKTNTPQQKLPQLVSLPSLPQPPPQAPPPQCPLPQSSPSPSQLSHLPLKPLHTSTPQQLANLPPQLIPYQCDQCKLAFPSFEHWQEHQQLHFLSAQNQFIHPQFLDRSLDMPFMLFDPSNPLLASQLLSGAIPQIPASSATSPSTPTSTMNTLKRKLEEKASASPGENDSGTGGEEPQRDKRLRTTITPEQLEILYQKYLLDSNPTRKMLDHIAHEVGLKKRVVQVWFQNTRARERKGQFRAVGPAQAHRRCPFCRALFKAKTALEAHIRSRHWHEAKRAGYNLTLSAMLLDCDGGLQMKGDIFDGTSFSHLPPSSSDGQGVPLSPVSKTMELSPRTLLSPSSIKVEGIEDFESPSMSSVNLNFDQTKLDNDDCSSVNTAITDTTTGDEGNADNDSATGIATETKSSSAPNEGLTKAAMMAMSEYEDRLSSGLVSPAPSFYSKEYDNEGTVDYSETSSLADPCSPSPGASGSAGKSGDSGDRPGQKRFRTQMTNLQLKVLKSCFNDYRTPTMLECEVLGNDIGLPKRVVQVWFQNARAKEKKSKLSMAKHFGINQTSYEGPKTECTLCGIKYSARLSVRDHIFSQQHISKVKDTIGSQLDKEKEYFDPATVRQLMAQQELDRIKKANEVLGLAAQQQGMFDNTPLQALNLPTAYPALQGIPPVLLPGLNSPSLPGFTPSNTALTSPKPNLMGLPSTTVPSPGLPTSGLPNKPSSASLSSPTPAQATMAMGPQQPPQQQQQQQQPQVQQPPPPPAAQPPPTPQLPLQQQQQRKDKDSEKVKEKEKAHKGKGEPLPVPKKEKGEAPTATAATISAPLPTMEYAVDPAQLQALQAALTSDPTALLTSQFLPYFVPGFSPYYAPQIPGALQSGYLQPMYGMEGLFPYSPALSQALMGLSPGSLLQQYQQYQQSLQEAIQQQQQRQLQQQQQQKVQQQQPKASQTPVPPGAPSPDKDPAKESPKPEEQKNTPREVSPLLPKLPEEPEAESKSADSLYDPFIVPKVQYKLVCRKCQAGFSDEEAARSHLKSLCFFGQSVVNLQEMVLHVPTGGGGGGSGGGGGGGGGGGGGGSYHCLACESALCGEEALSQHLESALHKHRTITRAARNAKEHPSLLPHSACFPDPSTASTSQSAAHSNDSPPPPSAAAPSSASPHASRKSWPQVVSRASAAKPPSFPPLSSSSTVTSSSCSTSGVQPSMPTDDYSEESDTDLSQKSDGPASPVEGPKDPSCPKDSGLTSVGTDTFRL |
| 2294 | sp|Q8N5P1|ZC3H8\_HUMAN | MDFENLFSKPPNPALGKTATDSDERIDDEIDTEVEETQEEKIKLECEQIPKKFRHSAISPKSSLHRKSRSKDYDVYSDNDICSQESEDNFAKELQQYIQAREMANAAQPEESTKKEGVKDTPQAAKQKNKNLKAGHKNGKQKKMKRKWPGPGNKGSNALLRNSGSQEEDGKPKEKQQHLSQAFINQHTVERKGKQICKYFLERKCIKGDQCKFDHDAEIEKKKEMCKFYVQGYCTRGENCLYLHNEYPCKFYHTGTKCYQGEYCKFSHAPLTPETQELLAKVLDTEKKSCK |
| 2295 | sp|Q9NQZ8|ZNF71\_HUMAN | MKELDPKNDISEDKLSVVGEATGGPTRNGARGPGSEGVWEPGSWPERPRGDAGAEWEPLGIPQGNKLLGGSVPACHELKAFANQGCVLVPPRLDDPTEKGACPPVRRGKNFSSTSDLSKPPMPCEEKKTYDCSECGKAFSRSSSLIKHQRIHTGEKPFECDTCGKHFIERSSLTIHQRVHTGEKPYACGDCGKAFSQRMNLTVHQRTHTGEKPYVCDVCGKAFRKTSSLTQHERIHTGEKPYACGDCGKAFSQNMHLIVHQRTHTGEKPYVCPECGRAFSQNMHLTEHQRTHTGEKPYACKECGKAFNKSSSLTLHQRNHTGEKPYVCGECGKAFSQSSYLIQHQRFHIGVKPFECSECGKAFSKNSSLTQHQRIHTGEKPYECYICKKHFTGRSSLIVHQIVHTGEKPYVCGECGKAFSQSAYLIEHQRIHTGEKPYRCGQCGKSFIKNSSLTVHQRIHTGEKPYRCGECGKTFSRNTNLTRHLRIHT |
| 2296 | sp|Q9P0T4|ZN581\_HUMAN | MLVLPSPCPQPLAFSSVETMEGPPRRTCRSPEPGPSSSIGSPQASSPPRPNHYLLIDTQGVPYTVLVDEESQREPGASGAPGQKKCYSCPVCSRVFEYMSYLQRHSITHSEVKPFECDICGKAFKRASHLARHHSIHLAGGGRPHGCPLCPRRFRDAGELAQHSRVHSGERPFQCPHCPRRFMEQNTLQKHTRWKHP |
| 2297 | sp|Q91689|ZIC2A\_XENLA | MLLDAGPQFPALGVGTFARHHHHHHHHHAAVAAAAAAAAEMQERELSLAQNTFVEPTHMAAFKLNPGGGSGGGSGGGGGGGGAGPNGGAGASGPHDLSPPGQTSAFTSQAGYPTSALAPHSAYSGAAAFNSPRDFLFRGRGFAEGSAAAGGGQHGLFGPPAGSLHHHPHHHHQLSHAEHPQGHLLFPGIHDQHAAASQNTLGGQMRLGLPGEVFGRTEQYRQVSSPRGDPYTAAQLHNQYSPMNMGMNMAAHHHHHHHHHPGAFFRYMRQPCIKQELICKWIDPEQLNNPKKSCTKTFSTMHELVTHVSVEHVGGPEQSNHICFWEECPREGKPFKAKYKLVNHIRVHTGEKPFPCPFPGCGKVFARSENLKIHKRTHTGEKPFQCEFEGCDRRFANSSDRKKHMHVHTSDKPYLCKMCDKSYTHPSSLRKHMKVHESSPQGSESSPAASSGYESSTPPGLVSPNSETQNPNLSPAAAAVSAVHNVSSGASGALASNFNEWYV |
| 2298 | sp|Q91YT7|YTHD2\_MOUSE | MSASSLLEQRPKGQGNKVQNGSVHQKDGLNDDDFEPYLSPQARPNNAYTAMSDSYLPSYYSPSIGFSYSLGEAAWSTGGDTAMPYLTSYGQLSNGEPHFLPDAMFGQPGALGSTPFLGQHGFNFFPSGIDFSAWGNNSSQGQSTQSSGYSSNYAYAPSSLGGAMIDGQSAFANETLNKAPGMNTIDQGMAALKLGSTEVASSVPKVVGSAVGSGSITSNIVASSSLPPATIAPPKPASWADIASKPAKQQPKLKTKNGIAGSSLPPPPIKHNMDIGTWDNKGPVAKAPSQALVQNIGQPTQGSPQPVGQQANNSPPVAQASVGQQTQPLPPPPPQPAQLSVQQQAAQPTRWVAPRNRGSGFGHNGVDGNGVGQSQAGSGSTPSEPHPVLEKLRSINNYNPKDFDWNLKHGRVFIIKSYSEDDIHRSIKYNIWCSTEHGNKRLDAAYRSMNGKGPVYLLFSVNGSGHFCGVAEMKSAVDYNTCAGVWSQDKWKGRFDVRWIFVKDVPNSQLRHIRLENNENKPVTNSRDTQEVPLEKAKQVLKIIASYKHTTSIFDDFSHYEKRQEEEESVKKERQGRGK |
| 2299 | sp|Q5W0Z9|ZDH20\_HUMAN | MAPWTLWRCCQRVVGWVPVLFITFVVVWSYYAYVVELCVFTIFGNEENGKTVVYLVAFHLFFVMFVWSYWMTIFTSPASPSKEFYLSNSEKERYEKEFSQERQQEILRRAARALPIYTTSASKTIRYCEKCQLIKPDRAHHCSACDSCILKMDHHCPWVNNCVGFSNYKFFLLFLLYSLLYCLFVAATVLEYFIKFWTNELTDTRAKFHVLFLFFVSAMFFISVLSLFSYHCWLVGKNRTTIESFRAPTFSYGPDGNGFSLGCSKNWRQVFGDEKKYWLLPIFSSLGDGCSFPTRLVGMDPEQASVTNQNEYARSSGSNQPFPIKPLSESKNRLLDSESQWLENGAEEGIVKSGTNNHVTVAIEN |
| 2300 | sp|P46684|ZIC1\_MOUSE | MLLDAGPQYPAIGVTTFGASRHHSAGDVAERDVGLGINPFADGMGAFKLNPSSHELASAGQTAFTSQAPGYAAAAALGHHHHPGHVGSYSSAAFNSTRDFLFRNRGFGDAAAAASAQHSLFAASAGGFGGPHGHTDAAGHLLFSGLHEQAAGHASPNVVNGQMRLGFSGDMYPRPEQYGQVTSPRSEHYAAPQLHGYGPMNVNMAAHHGAGAFFRYMRQPIKQELICKWIEPEQLANPKKSCNKTFSTMHELVTHVTVEHVGGPEQSNHICFWEECPREGKPFKAKYKLVNHIRVHTGEKPFPCPFPGCGKVFARSENLKIHKRTHTGEKPFKCEFEGCDRRFANSSDRKKHMHVHTSDKPYLCKMCDKSYTHPSSLRKHMKVHESSSQGSQPSPAASSGYESSTPPTIVSPTTDNPTTSSMSPSSSAVHHTAGHSALSSNFNEWYV |
| 2301 | sp|P81718|PTN6\_RAT | MLSRGWFHRDLSGPDAETLLKGRGVPGSFLARPSRKNQGDFSLSVRVDDQVTHIRIQNSGDFYDLYGGEKFATSTELVEYYTQQQGILQDRDGTIIHLKYPLNCSDPTSERWYHGHMSGGQAESLLQAKGEPWTFLVRESLSQPGDFVLSVLNDQPKAAPGSPLRVTHIKVMCEGGRYTVGGSETFDSLTDLVEHFKKTGIEEASGAFVYLRQPYYATRVNAADIENRVLELNKKQESEDTAKAGFWEEFESLQKQEAKNLHQRLEGQRPENKSKNRYKNILPFDHSRVILQGRDSNIPGSDYINANYVKNQLLGPDENSKTYIASQGCLDATVNDFWQMAWQENTRVIVMTTREVEKGRNKCVPYWPEVGTQRVYGLYSVTNCKEHDTAEYKLRTLQISPLDNGDLVREIWHYQYLSWPDHGVPSEPGGVLSFLDQINQRQESLPHAGPIIVHCSAGIGRTGTIIVIDMLMESVSTKGLDCDIDIQKTIQMVRAQRSGMVQTEAQYKFIYVAIAQFIETTKKKLEIIQSQRGQESEYGNITYPPALRSAHAKASRTSSKHKEEVYENVHSKNKKEEKVKKQRSADKEKNKGSLKRNISLTPCRGLRWADRDL |
| 2302 | sp|Q16849|PTPRN\_HUMAN | MRRPRRPGGLGGSGGLRLLLCLLLLSSRPGGCSAVSAHGCLFDRRLCSHLEVCIQDGLFGQCQVGVGQARPLLQVTSPVLQRLQGVLRQLMSQGLSWHDDLTQYVISQEMERIPRLRPPEPRPRDRSGLAPKRPGPAGELLLQDIPTGSAPAAQHRLPQPPVGKGGAGASSSLSPLQAELLPPLLEHLLLPPQPPHPSLSYEPALLQPYLFHQFGSRDGSRVSEGSPGMVSVGPLPKAEAPALFSRTASKGIFGDHPGHSYGDLPGPSPAQLFQDSGLLYLAQELPAPSRARVPRLPEQGSSSRAEDSPEGYEKEGLGDRGEKPASPAVQPDAALQRLAAVLAGYGVELRQLTPEQLSTLLTLLQLLPKGAGRNPGGVVNVGADIKKTMEGPVEGRDTAELPARTSPMPGHPTASPTSSEVQQVPSPVSSEPPKAARPPVTPVLLEKKSPLGQSQPTVAGQPSARPAAEEYGYIVTDQKPLSLAAGVKLLEILAEHVHMSSGSFINISVVGPALTFRIRHNEQNLSLADVTQQAGLVKSELEAQTGLQILQTGVGQREEAAAVLPQTAHSTSPMRSVLLTLVALAGVAGLLVALAVALCVRQHARQQDKERLAALGPEGAHGDTTFEYQDLCRQHMATKSLFNRAEGPPEPSRVSSVSSQFSDAAQASPSSHSSTPSWCEEPAQANMDISTGHMILAYMEDHLRNRDRLAKEWQALCAYQAEPNTCATAQGEGNIKKNRHPDFLPYDHARIKLKVESSPSRSDYINASPIIEHDPRMPAYIATQGPLSHTIADFWQMVWESGCTVIVMLTPLVEDGVKQCDRYWPDEGASLYHVYEVNLVSEHIWCEDFLVRSFYLKNVQTQETRTLTQFHFLSWPAEGTPASTRPLLDFRRKVNKCYRGRSCPIIVHCSDGAGRTGTYILIDMVLNRMAKGVKEIDIAATLEHVRDQRPGLVRSKDQFEFALTAVAEEVNAILKALPQ |
| 2303 | sp|P63001|RAC1\_MOUSE | MQAIKCVVVGDGAVGKTCLLISYTTNAFPGEYIPTVFDNYSANVMVDGKPVNLGLWDTAGQEDYDRLRPLSYPQTDVFLICFSLVSPASFENVRAKWYPEVRHHCPNTPIILVGTKLDLRDDKDTIEKLKEKKLTPITYPQGLAMAKEIGAVKYLECSALTQRGLKTVFDEAIRAVLCPPPVKKRKRKCLLL |
| 2304 | sp|P42656|RAD24\_SCHPO | MSTTSREDAVYLAKLAEQAERYEGMVENMKSVASTDQELTVEERNLLSVAYKNVIGARRASWRIVSSIEQKEESKGNTAQVELIKEYRQKIEQELDTICQDILTVLEKHLIPNAASAESKVFYYKMKGDYYRYLAEFAVGEKRQHSADQSLEGYKAASEIATAELAPTHPIRLGLALNFSVFYYEILNSPDRACYLAKQAFDEAISELDSLSEESYKDSTLIMQLLRDNLTLWTSDAEYSAAAAGGNTEGAQENAPSNAPEGEAEPKADA |
| 2305 | sp|P0C6U7|R1A\_CVHOC | MSKINKYGLELHWAPEFPWMFEDAEEKLDNPSSSEVDMICSTTAQKLETDGICPENHVMVDCRRLLKQECCVQSSLIREIVMNASPYHLEVLLQDALQSREAVLVTTPLGMSLEACYVRGCNPKGWTMGLFRRRSVCNTGRCTVNKHVAYQLYMIDPAGVCLGAGQFVGWVIPLAFMPVQSRKFIVPWVMYLRKRGEKGAYNKDHGCGGFGHVYDFKVEDAYDQVHDEPKGKFSKKAYALIRGYRGVKPLLYVDQYGCDYTGSLADGLEAYADKTLQEMKALFPTWSQELPFDVIVAWHVVRDPRYVMRLQSAATICSVAYVANPTEDLCDGSVVIKEPVHVYADDSIILRQYNLFDIMSHFYMEADTVVNAFYGVALKDCGFVMQFGYIDCEQDSCDFKGWIPGNMIDGFACTTCGHVYEVGDLIAQSSGVLPVNPVLHTKSAAGYGGFGCKDSFTLYGQTVVYFGGCVYWSPARNIWIPILKSSVKSYDSLVYTGVLGCKAIVKETNLICKALYLDYVQHKCGNLHQRELLGVSDVWHKQLLINRGVYKPLLENIDYFNMRRAKFSLETFTVCADGFMPFLLDDLVPRAYYLAVSGQAFCDYADKLCHAVVSKSKELLDVSLDSLGAAIHYLNSKIVDLAQHFSDFGTSFVSKIVHFFKTFTTSTALAFAWVLFHVLHGAYIVVESDIYFVKNIPRYASAVAQAFQSVAKVVLDSLRVTFIDGLSCFKIGRRRICLSGRKIYEVERGLLHSSQLPLDVYDLTMPSQVQKAKQKPIYLKGSGSDFSLADSVVEVVTTSLTPCGYSEPPKVADKICIVDNVYMAKAGDKYYPVVVDDHVGLLDQAWRVPCAGRRVTFKEQPTVKEIISMPKIIKVFYELDNDFNTILNTACGVFEVDDTVDMEEFYAVVIDAIEEKLSPCKELEGVGAKVSAFLQKLEDNPLFLFDEAGEEVFAPKLYCAFTAPEDDDFLEESDVEEDDVEGEETDLTITSAGQPCVASEQEESSEVLEDTLDDGPSVETSDSQVEEDVEMSDFVDLESVIQDYENVCFEFYTTEPEFVKVLGLYVPKATRNNCWLRSVLAVMQKLPCQFKDKNLQDLWVLYKQQYSQLFVDTLVNKIPANIVLPQGGYVADFAYWFLTLCDWQCVAYWKCIKCDLALKLKGLDAMFFYGDVVSHICKCGESMVLIDVDVPFTAHFALKDKLFCAFITKRIVYKAACVVDVNDSHSMAVVDGKQIDDHRITSITSDKFDFIIGHGMSFSMTTFEIAQLYGSCITPNVCFVKGDIIKVSKLVKAEVVVNPANGHMVHGGGVAKAIAVAAGQQFVKETTNMVKSKGVCATGDCYVSTGGKLCKTVLNVVGPDARTQGKQSYVLLERVYKHFNNYDCVVTTLISAGIFSVPSDVSLTYLLGTAKKQVVLVSNNQEDFDLISKCQITAVEGTKKLAARLSFNVGRSIVYETDANKLILINDVAFVSTFNVLQDVLSLRHDIALDDDARTFVQSNVDVLPEGWRVVNKFYQINGVRTVKYFECTGGIDICSQDKVFGYVQQGIFNKATVAQIKALFLDKVDILLTVDGVNFTNRFVPVGESFGKSLGNVFCDGVNVTKHKCDINYKGKVFFQFDNLSSEDLKAVRSSFNFDQKELLAYYNMLVNCFKWQVVVNGKYFTFKQANNNCFVNVSCLMLQSLHLTFKIVQWQEAWLEFRSGRPARFVALVLAKGGFKFGDPADSRDFLRVVFSQVDLTGAICDFEIACKCGVKQEQRTGLDAVMHFGTLSREDLEIGYTVDCSCGKKLIHCVRFDVPFLICSNTPASVKLPKGVGSANIFIGDNVGHYVHVKCEQSYQLYDASNVKKVTDVTGKLSDCLYLKNLKQTFKSVLTTYYLDDVKKIEYKPDLSQYYCDGGKYYTQRIIKAQFKTFEKVDGVYTNFKLIGHTVCDSLNSKLGFDSSKEFVEYKITEWPTATGDVVLANDDLYVKRYERGCITFGKPVIWLSHEKASLNSLTYFNRPLLVDDNKFDVLKVDDVDDSGDSSESGAKETKEINIIKLSGVKKPFKVEDSVIVNDDTSETKYVKSLSIVDVYDMWLTGCKYVVRTANALSRAVNVPTIRKFIKFGMTLVSIPIDLLNLREIKPAVNVVKAVRNKTSACFNFIKWLFVLLFGWIKISADNKVIYTTEIASKLTCKLVALAFKNAFLTFKWSMVARGACIIATIFLLWFNFIYANVIFSDFYLPKIGFLPTFVGKIAQWIKNTFSLVTICDLYSIQDVGFKNQYCNGSIACQFCLAGFDMLDNYKAIDVVQYEADRRAFVDYTGVLKIVIELIVSYALYTAWFYPLFALISIQILTTWLPELFMLSTLHWSFRLLVALANMLPAHVFMRFYIIIASFIKLFSLFKHVAYGCSKSGCLFCYKRNRSLRVKCSTIVGGMIRYYDVMANGGTGFCSKHQWNCIDCDSYKPGNTFITVEAALDLSKELKRPIQPTDVAYHTVTDVKQVGCSMRLFYDRDGQRIYDDVNASLFVDYSNLLHSKVKSVPNMHVVVVENDADKANFLNAAVFYAQSLFRPILMVDKNLITTANTGTSVTETMFDVYVDTFLSMFDVDKKSLNALIATAHSSIKQGTQIYKVLDTFLSCARKSCSIDSDVDTKCLADSVMSAVSAGLELTDESCNNLVPTYLKSDNIVAADLGVLIQNSAKHVQGNVAKIAGVSCIWSVDAFNQFSSDFQHKLKKACCKTGLKLKLTYNKQMANVSVLTTPFSLKGGAVFSYFVYVCFVLSLVCFIGLWCLMPTYTVHKSDFQLPVYASYKVLDNGVIRDVSVEDVCFANKFEQFDQWYESTFGLSYYSNSMACPIVVAVIDQDFGSTVFNVPTKVLRYGYHVLHFITHALSADGVQCYTPHSQISYSNFYASGCVLSSACTMFTMADGSPQPYCYTDGLMQNASLYSSLVPHVRYNLANAKGFIRFPEVLREGLVRVVRTRSMSYCRVGLCEEADEGICFNFNGSWVLNNDYYRSLPGTFCGRDVFDLIYQLFKGLAQPVDFLALTASSIAGAILAVIVVLVFYYLIKLKRAFGDYTSVVFVNVIVWCVNFMMLFVFQVYPTLSCVYAICYFYATLYFPSEISVIMHLQWLVMYGTIMPLWFCLLYIAVVVSNHAFWVFSYCRKLGTSVRSDGTFEEMALTTFMITKDSYCKLKNSLSDVAFNRYLSLYNKYRYYSGKMDTAAYREAACSQLAKAMDTFTNNNGSDVLYQPPTASVSTSFLQSGIVKMVNPTSKVEPCVVSVTYGNMTLNGLWLDDKVYCPRHVICSASDMTNPDYTNLLCRVTSSDFTVLFDRLSLTVMSYQMRGCMLVLTVTLQNSRTPKYTFGVVKPGETFTVLAAYNGKPQGAFHVTMRSSYTIKGSFLCGSCGSVGYVIMGDCVKFVYMHQLELSTGCHTGTDFNGDFYGPYKDAQVVQLPIQDYIQSVNFLAWLYAAILNNCNWFIQSDKCSVEDFNVWALSNGFSQVKSDLVIDALASMTGVSLETLLAAIKRLKNGFQGRQIMGSCSFEDELTPSDVYQQLAGIKLQSKRTRLFKGTVCWIMASTFLFSCIITAFVKWTMFMYVTTNMFSITFCALCVISLAMLLVKHKHLYLTMYITPVLFTLLYNNYLVVYKHTFRGYVYAWLSYYVPSVEYTYTDEVIYGMLLLVGMVFVTLRSINHDLFSFIMFVGRLISVFSLWYKGSNLEEEILLMLASLFGTYTWTTVLSMAVAKVIAKWVAVNVLYFTDIPQIKIVLLCYLFIGYIISCYWGLFSLMNSLFRMPLGVYNYKISVQELRYMNANGLRPPKNSFEALMLNFKLLGIGGVPIIEVSQFQSKLTDVKCANVVLLNCLQHLHVASNSKLWHYCSTLHNEILATSDLSVAFEKLAQLLIVLFANPAAVDSKCLTSIEEVCDDYAKDNTVLQALQSEFVNMASFVEYEVAKKNLDEARFSGSANQQQLKQLEKACNIAKSAYERDRAVAKKLERMADLALTNMYKEARINDKKSKVVSALQTMLFSMVRKLDNQALNSILDNAVKGCVPLNAIPSLAANTLNIIVPDKSVYDQIVDNIYVTYAGNVWQIQTIQDSDGTNKQLNEISDDCNWPLVIIANRYNEVSATVLQNNELMPAKLKIQVVNSGPDQTCNTPTQCYYNNSNNGKIVYAILSDVDGLKYTKILKDDGNFVVLELDPPCKFTVQDAKGLKIKYLYFVKGCNTLARGWVVGTISSTVRLQAGTATEYASNSSILSLCAFSVDPKKTYLDFIQQGGTPIANCVKMLCDHAGTGMAITVKPDATTSQDSYGGASVCIYCRARVEHPDVDGLCKLRGKFVQVPVGIKDPVSYVLTHDVCRVCGFWRDGSCSCVSTDTTVQSKDTNFLNGFGVRV |
| 2306 | sp|P0C6Y0|R1AB\_CVMJH | MAKMGKYGLGFKWAPEFPWMLPNASEKLGNPERSEEDGFCPSAAQEPKVKGKTLVNHVRVDCSRLPALECCVQSAIIRDIFVDEDPQKVEASTMMALQFGSAVLVKPSKRLSVQAWAKLGVLPKTPAMGLFKRFCLCNTRECVCDAHVAFQLFTVQPDGVCLGNGRFIGWFVPVTAIPEYAKQWLQPWSILLRKGGNKGSVTSGHFRRAVTMPVYDFNVEDACEEVHLNPRGKYSCKAYALLRGYRGVKPILFVDQYGCDYTGCLAKGLEDYGDLTLSEMKELSPVWRDSLDNEVVVAWHVDRDPRAVMRLQTLATVRSIEYVGQPIEDMVDGDVVMREPAHLLAPNAIVKRLPRLVETMLYTDSSVTEFCYKTKLCDCGFITQFGYVDCCGDTCGFRGWVPGNMMDGFPCPGCCKSYMPWELEAQSSGVIPEGGVLFTQSTDTVNRESFKLYGHAVVPFGGAAYWSPYPGMWLPVIWSSVKSYSYLTYTGVVGCKAIVQETDAICRFLYMDYVQHKCGNLEQRAILGLDDVYHRQLLVNRGDYSLLLENVDLFVKRRAEFACKFATCGDGLVPLLLDGLVPRSYYLIKSGQAFTSLMVNFSREVVDMCMDMALLFMHDVKVATKYVKKVTGKVAVRFKALGIAVVRKITEWFDLAVDTAASAAGWLCYQLVNGLFAVANGVITFIQEVPELVKNFVDKFKTFFKVLIDSMSVSILSGLTVVKTASNRVCLAGSKVYEVVQKSLPAYIMPVGCSEATCLVGEIEPAVFEDDVVDVVKAPLTYQGCCKPPSSFEKICIVDKLYMAKCGDQFYPVVVDNDTVGVLDQCWRFPCAGKKVVFNDKPKVKEVPSTRKIKIIFALDATFDSVLSKACSEFEVDKDVTLDELLDVVLDAVESTLSPCKEHGVIGTKVCALLERLVDDYVYLFDEGGEEVIASRMYCSFSAPDEDCVATDVVYADENQDDDADDPVVLVADTQEEDGVAREQVDSADSEICVAHTGGQEMTEPDVVGSQTPIASAEETEVGEACDREGIAEVKATVCADALDACPDQVEAFDIEKVEDSILSELQTELNAPADKTYEDVLAFDAIYSETLSAFYAVPSDETHFKVCGFYSPAIERTNCWLRSTLIVMQSLPLEFKDLGMQKLWLSYKAGYDQCFVDKLVKSAPKSIILPQGGYVADFAYFFLSQCSFKVHANWRCLKCGMELKLQGLDAVFFYGDVVSHMCKCGNSMTLLSADIPYTFDFGVRDDKFCAFYTPRKVFRAACAVDVNDCHSMAVVDGKQIDGKVVTKFNGDKFDFMVGHGMTFSMSPFEIAQLYGSCITPNVCFVKGDVIKVLRRVGAEVIVNPANGRMAHGAGVAGAIAKAAGKAFINETADMVKAQGVCQVGGCYESTGGKLCKKVLNIVGPDARGHGNECYSLLERAYQHINKCDNVVTTLISAGIFSVPTDVSLTYLLGVVTKNVILVSNNQDDFDVIEKCQVTSVAGTKALSFQLAKNLCRDVKFVTNACSSLFSESSFVSSYDVLQEVEALRHDIQLDDDARVFVQANMDCLPTDWRLVNKFDSVDGVRTIKYFECPGEVFVSSQGKKFGYVQNGSFKEASVSQIRALLANKVDVLCTVDGVNFRSCCVAEGEVFGKTLGSVFCDGINVTKVRCSAIHKGKVFFQYSGLSAADLAAVKDAFGFDEPQLLQYYSMLGMCKWPVVVCGNYFAFKQSNNNCYINVACLMLQHLSLKFPKWQWRRPGNEFRSGKPLRFVSLVLAKGSFKFNEPSDSTDFIRVELREADLSGATCDLEFICKCGVKQEQRKGVDAVMHFGTLDKSGLVKGYNIACTCGDKLVHCTQFNVPFLICSNTPEGKKLPDDVVAANIFTGGSVGHYTHVKCKPKYQLYDACNVSKVSEAKGNFTDCLYLKNLKQTFSSVLTTYYLDDVKCVAYKPDLSQYYCESGKYYTKPIIKAQFRTFEKVEGVYTNFKLVGHDIAEKLNAKLGFDCNSPFMEYKITEWPTATGDVVLASDDLYVSRYSGGCVTFGKPVIWRGHEEASLKSLTYFNRPSVVCENKFNVLPVDVSEPTDRRPVPSAVLVTGAASGADASAISTEPGTAKEQKACASDSVEDQIVMEAQKKSSVTTVAVKEVKLNGVKKPVKWNCSVVVNDPTSETKVVKSLSIVDVYDMFLTGCRYVVWTANELSRLINSPTVREYVKWGMSKLIIPANLLLLRDEKQEFVAPKVVKAKAIACYGAVKWFLLYCFSWIKFNTDNKVIYTTEVASKLTFKLCCLAFKNALQTFNWSVVSRGFFLVATVFLLWFNFLYANVILSDFYLPNIGPLPMFVGQIVAWVKTTFGVLTICDFYQVTDLGYRSSFCNGSMVCELCFSGFDMLDNYESINVVQHVVDRRVSFDYISLFKLVVELVIGYSLYTVCFYPLFVLVGMQLLTTWLPEFFMLGTMHWSARLFVFVANMLPAFTLLRFYIVVTAMYKVYCLCRHVMYGCSKPGCLFCYKRNRSVRVKCSTVVGGSLRYYDVMANGGTGFCTKHQWNCLNCNSWKPGNTFITHEAAADLSKELKRPVNPTDSAYYSVIEVKQVGCSMRLFYERDGQRVYDDVSASLFVDMNGLLHSKVKGVPETHVVVVENEADKAGFLNAAVFYAQSLYRPMLMVEKKLITTANTGLSVSRTMFDLYVYSLLRHLDVDRKSLTSFVNAAHNSLKEGVQLEQVMDTFVGCARRKCAIDSDVETKSITKSVMAAVNAGVEVTDESCNNLVPTYVKSDTIVAADLGVLIQNNAKHVQSNVAKAANVACIWSVDAFNQLSADLQHRLRKACVKTGLKIKLTYNKQEANVPILTTPFSLKGGAVFSRVLQWLFVANLICFIVLWALMPTYAVHKSDMQLPLYASFKVIDNGVLRDVSVTDACFANKFNQFDQWYESTFGLVYYRNSKACPVVVAVIDQDIGHTLFNVPTKVLRYGFHVLHFITHAFATDRVQCYTPHMQIPYDNFYASGCVLSSLCTMLAHADGTPHPYCYTEGVMHNASLYSSLVPHVRYNLASSNGYIRFPEVVSEGIVRVVRTRSMTYCRVGLCEEAEEGICFNFNSSWVLNNPYYRAMPGTFCGRNAFDLIHQVLGGLVQPIDFFALTASSVAGAILAIIVVLAFYYLIKLKRAFGDYTSVVVINVIVWCINFLMLFVFQVYPTLSCLYACFYFYTTLYFPSEISVVMHLQWLVMYGAIMPLWFCITYVAVVVSNHALWLFSYCRKIGTDVRSDGTFEEMALTTFMITKESYCKLKNSVSDVAFNRYLSLYNKYRYFSGKMDTATYREAACSQLAKAMETFNHNNGNDVLYQPPTASVTTSFLQSGIVKMVSPTSKVEPCVVSVTYGNMTLNGLWLDDKVYCPRHVICSSADMTDPDYPNLLCRVTSSDFCVMSDRMSLTVMSYQMQGSLLVLTVTLQNPNTPKYSFGVVKPGETFTVLAAYNGRPQGAFHVVMRSSHTIKGSFLCGSCGSVGYVLTGDSVRFVYMHQLELSTGCHTGTDFSGNFYGPYRDAQVVQLPVQDYTQTVNVVAWLYAAILNRCNWFVQSDSCSLEEFNVWAMTNGFSSIKADLVLDALASMTGVTVEQVLAAIKRLHSGFQGKQILGSCVLEDELTPSDVYQQLAGVKLQSKRTRVIKGTCCWILASTFLFCSIISAFVKWTMFMYVTTHMLGVTLCALCFVIFAMLLIKHKHLYLTMYIMPVLCTLFYTNYLVVGYKQSFRGLAYAWLSYFVPAVDYTYMDEVLYGVVLLVAMVFVTMRSINHDVFSTMFLVGRLVSLVSMWYFGANLEEEVLLFLTSLFGTYTWTTMLSLATAKVIAKWLAVNVLYFTDIPQIKLVLLSYLCIGYVCCCYWGVLSLLNSIFRMPLGVYNYKISVQELRYMNANGLRPPRNSFEALMLNFKLLGIGGVPVIEVSQIQSRLTDVKCANVVLLNCLQHLHIASNSKLWQYCSTLHNEILATSDLSVAFDKLAQLLVVLFANPAAVDSKCLASIEEVSDDYVRDNTVLQALQSEFVNMASFVEYELAKKNLDEAKASGSANQQQIKQLEKACNIAKSAYERDRAVARKLERMADLALTNMYKEARINDKKSKVVSALQTMLFSMVRKLDNQALNSILDNAVKGCVPLNAIPPLTSNTLTIIVPDKQVFDQVVDNVYVTYAPNVWHIQSIQDADGAVKQLNEIDVNSTWPLVISANRHNEVSTVVLQNNELMPQKLRTQVVNSGSDMNCNIPTQCYYNTTGTGKIVYAILSDCDGLKYTKIVKEDGNCVVLELDPPCKFSVQDVKGLKIKYLYFVKGCNTLARGWVVGTLSSTVRLQAGTATEYASNSAILSLCAFSVDPKKTYLDYIQQGGVPVTNCVKMLCDHAGTGMAITIKPEATTNQDSYGGASVCIYCRSRVEHPDVDGLCKLRGKFVQVPLGIKDPVSYVLTHDVCQVCGFWRDGSCSCVGTGSQFQSKDTNFLNRVRGTSVNARLVPCASGLDTDVQLRAFDICNANRAGIGLYYKVNCFRFQRVDEEGNKLDKFFVVKRTNLEVYNKEKECYELTKDCGVVAEHEFFTFDVEGSRVPHIVRKDLSKFTMLDLCYALRHFDRNDCSTLKEILLTYAECDESYFQKKDWYDFVENPDIINVYKKLGPIFNRALLNTANFADTLVEAGLVGVLTLDNQDLYGQWYDFGDFVKTVPCCGVAVADSYYSYMMPMLTMCHALDSELFVNGTYREFDLVQYDFTDFKLELFNKYFKHWSMTYHPNTSECEDDRCIIHCANFNILFSMVLPKTCFGPLVRQIFVDGVPFVVSIGYHYKELGVVMNMDVDTHRYRLSLKDLLLYAADPALHVASASALLDLRTCCFSVAAITSGVKFQTVKPGNFNQDFYEFILSKGLLKEGSSVDLKHFFFTQDGNAAITDYNYYKYNLPTMVDIKQLLFVVEVVNKYFEIYEGGCIPATQVIVNNYDKSAGYPFNKFGKARLYYEALSFEEQDEIYAYTKRNVLPTLTQMNLKYAISAKNRARTVAGVSILSTMTGRMFHQKCLKSIAATRGVPVVIGTTKFYGGWDDMLRRLIKDVDSPVLMGWDYPKCDRAMPNILRIVSSLVLARKHDSCCSHTDRFYRLANECAQVLGEIVMCGGCYYVKPGGTSSGDATTAFANSVFNICQAVSANVCSLMACNGHKIEDLSIRELQKRLYSNVYRADHVDPAFVSEYYEFLNKHFSMIILSDDGVVCYNSEFASKGYIANISDFQQVLYYQNNVFMSEAKCWVETDIEKGPHEFCSQHTMLVKMDGDEVYLPYPDPSRILGAGCFVDDLLKTDSVLLIERFVSLAIDAYPLVYHENPEYQNVFRVYLEYIKKLYNDLGNQILDSISVILSTCDGQKFTDETFYKNMYLRSAVMQSVGACVVCSSQTSLRCGSCIRKPLLCCKCAYDHVMSTDHKYVLSVSPYVCNSPGCDVNDVTKLYLGGMSYYCEAHKPQYSFKLVMNGMVFGLYKQSCTGSPYIEDFNKIASCKWTEVDDYVLANECTERLKLFAAETQKATEEAFKQCYASATIREIVSDRELILSWEIGKVRPPLNKNYVFTGYHFTNNGKTVLGEYVFDKSELTNGVYYRATTTYKLSVGDVFILTSHAVSSLSAPTLVPQENYTSVRFASAYSVPETFQNNVPNYQHIGIKRYCTVQGPPGTGKSHLAIGHAVYYCTARVVYTAASHAAVDALCEKAHKFLNINDCARIVPAKLRVDCYDKFNVNDTTRKYVFTTINALPELVTDIIVVDEVSMLTNYELSVINSRVRAKHYVYIGDPAQLPAPRVLLNKGTLEPRYFNSVTKLMCCLGPDIFLGTCYRCPKEIVDTVSALVYNNKLKAKNDNSAMCFKVYYKGQTTHESSSAVNMQQIHLISKLLKANPSWSNAVFISPYNSQNYVAKRVLGLQTQTADSAQGSAYDFVIYSQTAQTAHSVNVNRFNVAITRAKKGILCVMSSMQLIGVFNFTTLTLDKINNPRLQCTTNLFKDCSKSYVGIPPCAFLLAVDDKYKVSGNLAVCLNVADSAVTYSRLISLMGFKLDLTLDGYCKLFITRDEAIKRVRAWVGFDAEGAHATRDSIGTNFPLQLGFSTGIDFVVEATGMFAERDGYVFKKAAARAPPGEQFKHLVPLMSRGQKWDVVRIRIVQMLSDHLVDLADSVVLVTWAASFELTCLRYFAKVGKEVVCSVCNKRATCFNSRTGYYGCWRHSYSCDYLYNPLIVDIQQWGYTGSLTSNHDPICSVHKGAHVASSDAIMTRCLAVHDCFCKSVNWNLEYPIISNEVSVNTSCRLLQRVMFRAAMLCNRYDVCYDIGNPKGLACVKGYDFKFYDASPVVKSVKQFVYKYEAHKDQFLDGLCMFWNCNVDKYPANAVVCRFDTRVLSKLNLPGCNGGSLYVNKHAFHTNPFTRAAFENLKPMPFFYYSDTPCVYMEGMESKQVDYVPLRSATCITRCNLGGAVCLKHAEEYREYLESYNTATTAGFTFWVYKTFDFYNLWNTFTRLQSLENVVYNLVNAGHFDGRAGELPCAVIGEKVIAKIQNEDVVVFKNNTPFPTNVAVELFAERSIRPHPELKLFRSSNIHVCWNHVLWDYAKDSVFCSSTYKVCKYTDLQCIESLNVLFDGRDNGALEAFKKCRNGVYINTTKIKSLSMIKGPQRADLNGVVVEKVGDSDVEFWFAMRRDGDDVIFSRTGSLEPSHYRSPQGNPGGNRVGDLSGNEALARGTIFTQSRFLSSFSPRSEMEKDFMDLDEDVFIAKYSLQDYAFEHVVYGSFNQKIIGGLHLLIGLARRPKKSNLVIQEFVPYDSSIHSYFITDENSGSSESVCTVIDLLLDDFVDIVKSLNLKCVSKVVNVNVDFKDFQFMLWCNEEKVMTFYPRLQAAADWKPGYVMPVLYKYLESPMERVNLWNYGKPITLPTGCMMNVAKYTQLCQYLSTTTLAVPANMRVLHLGAGSDKGVAPGSAVLRQWLPSGSILVDNDMNPFVSDSVASYYGNCITLPFDCQWDLIISDMYDPLTKNIGEYNVSKDGFFTYLCHLIRDKLALGGSVAIKITEFSWNAELYSLMGKFAFWTIFCTNVNASSSEGFLIGINWLNRTRNEIDGKTMHANYLFWRNSTMWNGGAYSLFDMTKFPLKAAGTAVVSLKPDQINDLVLSLIEKGKLLVRDTRKEVFVGDSLVNVK |
| 2307 | sp|Q6IQ22|RAB12\_HUMAN | MDPGAALQRRAGGGGGLGAGSPALSGGQGRRRKQPPRPADFKLQVIIIGSRGVGKTSLMERFTDDTFCEACKSTVGVDFKIKTVELRGKKIRLQIWDTAGQERFNSITSAYYRSAKGIILVYDITKKETFDDLPKWMKMIDKYASEDAELLLVGNKLDCETDREITRQQGEKFAQQITGMRFCEASAKDNFNVDEIFLKLVDDILKKMPLDILRNELSNSILSLQPEPEIPPELPPPRPHVRCC |
| 2308 | sp|P0C6Y3|R1AB\_IBVM | MASSLKQGVSPKLRDVILVSKDIPEQLCDALFFYTSHNPKDYADAFAVRQKFDRNLQTGKQFKFETVCGLFLLKGVDKITPGVPAKVLKATSKLADLEDIFGVSPFARKYRELLKTACQWSLTVETLDARAQTLDEIFDPTEILWLQVAAKIQVSAMAMRRLVGEVTAKVMDALGSNMSALFQIFKQQIVRIFQKALAIFENVSELPQRIAALKMAFAKCAKSITVVVMERTLVVREFAGTCLASINGAVAKFFEELPNGFMGAKIFTTLAFFREAAVKIVDNIPNAPRGTKGFEVVGNAKGTQVVVRGMRNDLTLLDQKAEIPVESEGWSAILGGHLCYVFKSGDRFYAAPLSGNFALHDVHCCERVVCLSDGVTPEINDGLILAAIYSSFSVAELVAAIKRGEPFKFLGHKFVYAKDAAVSFTLAKAATIADVLKLFQSARVKVEDVWSSLTEKSFEFWRLAYGKVRNLEEFVKTCFCKAQMAIVILATVLGEGIWHLVSQVIYKVGGLFTKVVDFCEKYWKGFCAQLKRAKLIVTETLCVLKGVAQHCFQLLLDAIQFMYKSFKKCALGRIHGDLLFWKGGVHKIIQEGDEIWFDAIDSIDVEDLGVVQEKLIDFDVCDNVTLPENQPGHMVQIEDDGKNYMFFRFKKDENIYYTPMSQLGAINVVCKAGGKTVTFGETTVQEIPPPDVVFIKVSIECCGEPWNTIFKKAYKEPIEVETDLTVEQLLSVVYEKMCDDLKLFPEAPEPPPFENVTLVDKNGKDLDCIKSCHLIYRDYESDDDIEEEDAEECDTDSGDAEECDTNLECEEEDEDTKVLALIQDPASNKYPLPLDDDYSVYNGCIVHKDALDVVNLPSGEETFVVNNCFEGAVKALPQKVIDVLGDWGEAVDAQEQLCQQESTRVISEKSVEGFTGSCDAMAEQAIVEEQEIVPVVEQSQDVVVFTPADLEVVKETAEEVDEFILISAVPKEEVVSQEKEEPQVEQEPTLVVKAQREKKAKKFKVKPATCEKPKFLEYKTCVGDLAVVIAKALDEFKEFCIVNAANEHMSHGGGVAKAIADFCGPDFVEYCADYVKKHGPQQKLVTPSFVKGIQCVNNVVGPRHGDSNLREKLVAAYKSVLVGGVVNYVVPVLSSGIFGVDFKISIDAMREAFKGCAIRVLLFSLSQEHIDYFDATCKQKTIYLTEDGVKYRSVVLKPGDSLGQFGQVFARNKVVFSADDVEDKEILFIPTTDKTILEYYGLDAQKYVTYLQTLAQKWDVQYRDNFVILEWRDGNCWISSAIVLLQAAKIRFKGFLAEAWAKLLGGDPTDFVAWCYASCNAKVGDFSDANWLLANLAEHFDADYTNALLKKCVSCNCGVKSYELRGLEACIQPVRAPNLLHFKTQYSNCPTCGASSTDEVIEASLPYLLLFATDGPATVDCDENAVGTVVFIGSTNSGHCYTQADGKAFDNLAKDRKFGRKSPYITAMYTRFSLRSENPLLVVEHSKGKAKVVKEDVSNLATSSKASFDDLTDFEQWYDSNIYESLKVQETPDNLDEYVSFTTKEDSKLPLTLKVRGIKSVVDFRSKDGFTYKLTPDTDENSKTPVYYPVLDSISLRAIWVEGSANFVVGHPNYYSKSLRIPTFWENAESFVKMGYKIDGVTMGLWRAEHLNKPNLERIFNIAKKAIVGSSVVTTQCGKILVKAATYVADKVGDGVVRNITDRIKGLCGFTRGHFEKKMSLQFLKTLVFFFFYFLKASSKSLVSSYKIVLCKVVFATLLIVWFIYTSNPVVFTGIRVLDFLFEGSLCGPYNDYGKDSFDVLRYCAGDFTCRVCLHDRDSLHLYKHAYSVEQIYKDAASGINFNWNWLYLVFLILFVKPVAGFVIICYCVKYLVLSSTVLQTGVGFLDWFVKTVFTHFNFMGAGFYFWLFYKIYVQVHHILYCKDVTCEVCKRVARSNRQEVSVVVGGRKQIVHVYTNSGYNFCKRHNWYCRNCDDYGHQNTFMSPEVAGELSEKLKRHVKPTAYAYHVVYEACVVDDFVNLKYKAAIPGKDNASSAVKCFSVTDFLKKAVFLKEALKCEQISNDGFIVCNTQSAHALEEAKNAAVYYAQYLCKPILILDQALYEQLIVEPVSKSVIDKVCSILSNIISVDTAALNYKAGTLRDALLSITKDEEAVDMAIFCHNHEVEYTGDGFTNVIPSYGMDTDKLTPRDRGFLINADASIANLRVKNAPPVVWKFSDLIKLSDSCLKYLISATVKSGGRFFITKSGAKQVISCHTQKLLVEKKAGGVINNTFKWFMSCFKWLFVFYILFTACCLGYYYMEMNKSFVHPMYDVNSTLHVEGFKVIDKGVIREIVSEDNCFSNKFVNFDAFWGKSYENNKNCPIVTVVIDGDGTVAVGVPGFVSWVMDGVMFVHMTQTDRRPWYIPTWFNREIVGYTQDSIITEGSFYTSIALFSARCLYLTASNTPQLYCFNGDNDAPGALPFGSIIPHRVYFQPNGVRLIVPQQILHTPYIVKFVSDSYCRGSVCEYTKPGYCVSLDSQWVLFNDEYISKPGVFCGSTVRELMFNMVSTFFTGVNPNIYIQLATMFLILVVIVLIFAMVIKFQGVFKAYATIVFTIMLVWVINAFVLCVHSYNSVLAVILLVLYCYASMVTSRNTAIIMHCWLVFTFGLIVPTWLACCYLGFILYMYTPLVFWCYGTTKNTRKLYDGNEFVGNYDLAAKSTFVIRGTEFVKLTNEIGDKFEAYLSAYARLKYYSGTGSEQDYLQACRAWLAYALDQYRNSGVEVVYTPPRYSIGVSRLQAGFKKLVSPSSAVEKCIVSVSYRGNNLNGLWLGDSIYCPRHVLGKFSGDQWGDVLNLANNHEFEVVTQNGVTLNVVSRRLKGAVLILQTAVANAETPKYKFVKANCGDSFTIACSYGGTVIGLYPVTMRSNGTIRASFLAGACGSVGFNIEKGVVNFFYMHHLELPNALHTGTDLMGEFYGGYVDEEVAQRVPPDNLVTNNIVAWLYAAIISVKESSFSQPKWLESTTVSIEDYNRWASDNGFTPFSTSTAITKLSAITGVDVCKLLRTIMVKSAQWGSDPILGQYNFEDELTPESVFNQVGGVRLQSSFVRKATSWFWSRCVLACFLFVLCAIVLFTAVPLKFYVHAAVILLMAVLFISFTVKHVMAYMDTFLLPTLITVIIGVCAEVPFIYNTLISQVVIFLSQWYDPVVFDTMVPWMLLPLVLYTAFKCVQGCYMNSFNTSLLMLYQFMKLGFVIYTSSNTLTAYTEGNWELFFELVHTIVLANVSSNSLIGLIVFKCAKWMLYYCNATYFNNYVLMAVMVNGIGWLCTCYFGLYWWVNKVFGLTLGKYNFKVSVDQYRYMCLHKVNPPKTVWEVFTTNILIQGIGGDRVLPIATVQSKLSDVKCTTVVLMQLLTKLNVEANSKMHAYLVELHNKILASDDVGECMDNLLGMLITLFCIDSTIDLGEYCDDILKRSTVLQSVTQEFSHIPSYAEYERAKSIYEKVLADSKNGGVTQQELAAYRKAANIAKSVFDRDLAVQKKLDSMAERAMTTMYKEARVTDRRAKLVSSLHALLFSMLKKIDSEKLNVLFDQANSGVVPLATVPIVCSNKLTLVIPDPETWVKCVEGVHVTYSTVVWNIDCVTDADGTELHPTSTGSGLTYCISGDNIAWPLKVNLTRNGHNKVDVALQNNELMPHGVKTKACVAGVDQAHCSVESKCYYTSISGSSVVAAITSSNPNLKVASFLNEAGNQIYVDLDPPCKFGMKVGDKVEVVYLYFIKNTRSIVRGMVLGAISNVVVLQSKGHETEEVDAVGILSLCSFAVDPADTYCKYVAAGNQPLGNCVKMLTVHNGSGFAITSKPSPTPDQDSYGGASVCLYCRAHIAHPGGAGNLDGRCQFKGSFVQIPTTEKDPVGFCLRNKVCTVCQCWIGYGCQCDSLRQPKPSVQSVAVASGFDKNYLNRVRGSSEARLIPLANGCDPDVVKRAFDVCNKESAGMFQNLKRNCARFQEVRDTEDGNLEYCDSYFVVKQTTPSNYEHEKACYEDLKSEVTADHDFFVFNKNIYNISRQRLTKYTMMDFCYALRHFDPKDCEVLKEILVTYGCIEDYHPKWFEENKDWYDPIENPKYYAMLAKMGPIVRRALLNAIEFGNLMVEKGYVGVITLDNQDLNGKFYDFGDFQKTAPGAGVPVFDTYYSYMMPIIAMTDALAPERYFEYDVHKGYKSYDLLKYDYTEEKQDLFQKYFKYWDQEYHPNCRDCSDDRCLIHCANFNILFSTLVPQTSFGNLCRKVFVDGVPFIATCGYHSKELGVIMNQDNTMSFSKMGLSQLMQFVGDPALLVGTSNKLVDLRTSCFSVCALASGITHQTVKPGHFNKDFYDFAEKAGMFKEGSSIPLKHFFYPQTGNAAINDYDYYRYNRPTMFDIRQLLFCLEVTSKYFECYEGGCIPASQVVVNNLDKSAGYPFNKFGKARLYYEMSLEEQDQLFESTKKNVLPTITQMNLKYAISAKNRARTVAGVSILSTMTNRQFHQKILKSIVNTRNAPVVIGTTKFYGGWDNMLRNLIQGVEDPILMGWDYPKCDRAMPNLLRIAASLVLARKHTNCCTWSERVYRLYNECAQVLSETVLATGGIYVKPGGTSSGDATTAYANSVFNIIQATSANVARLLSVITRDIVYDDIKSLQYELYQQVYRRVNFDPAFVEKFYSYLCKNFSLMILSDDGVVCYNNTLAKQGLVADISGFREVLYYQNNVFMADSKCWVEPDLEKGPHEFCSQHTMLVEVDGEPRYLPYPDPSRILCACVFVDDLDKTESVAVMERYIALAIDAYPLVHHENEEYKKVFFVLLSYIRKLYQELSQNMLMDYSFVMDIDKGSKFWEQEFYENMYRAPTTLQSCGVCVVCNSQTILRCGNCIRKPFLCCKCCYDHVMHTDHKNVLSINPYICSQPGCGEADVTKLYLGGMSYFCGNHKPKLSIPLVSNGTVFGIYRANCAGSENVDDFNQLATTNWSTVEPYILANRCVDSLRRFAAETVKATEELHKQQFASAEVREVLSDRELILSWEPGKTRPPLNRNYVFTGFHFTRTSKVQLGDFTFEKGEGKDVVYYRATSTAKLSVGDIFVLTSHNVVSLIAPTLCPQQTFSRFVNLRPNVMVPACFVNNIPLYHLVGKQKRTTVQGPPGSGKSHFAIGLAAYFSNARVVFTACSHAAVDALCEKAFKFLKVDDCTRIVPQRTTIDCFSKFKANDTGKKYIFSTINALPEVSCDILLVDEVSMLTNYELSFINGKINYQYVVYVGDPAQLPAPRTLLNGSLSPKDYNVVTNLMVCVKPDIFLAKCYRCPKEIVDTVSTLVYDGKFIANNPESRQCFKVIVNNGNSDVGHESGSAYNITQLEFVKDFVCRNKEWREATFISPYNAMNQRAYRMLGLNVQTVDSSQGSEYDYVIFCVTADSQHALNINRFNVALTRAKRGILVVMRQRDELYSALKFIELDSVASLQGTGLFKICNKEFSGVHPAYAVTTKALAATYKVNDELAALVNVEAGSEITYKHLISLLGFKMSVNVEGCHNMFITRDEAIRNVRGWVGFDVEATHACGTNIGTNLPFQVGFSTGADFVVTPEGLVDTSIGNNFEPVNSKAPPGEQFNHLRALFKSAKPWHVVRPRIVQMLADNLCNVSDCVVFVTWCHGLELTTLRYFVKIGKDQVCSCGSRATTFNSHTQAYACWKHCLGFDFVYNPLLVDIQQWGYSGNLQFNHDLHCNVHGHAHVASADAIMTRCLAINNAFCQDVNWDLTYPHIANEDEVNSSCRYLQRMYLNACVDALKVNVVYDIGNPKGIKCVRRGDLNFRFYDKNPIVPNVKQFEYDYNQHKDKFADGLCMFWNCNVDCYPDNSLVCRYDTRNLSVFNLPGCNGGSLYVNKHAFHTPKFDRTSFRNLKAMPFFFYDSSPCETIQLDGVAQDLVSLATKDCITKCNIGGAVCKKHAQMYADFVTSYNAAVTAGFTFWVTNNFNPYNLWKSFSALQSIDNIAYNMYKGGHYDAIAGEMPTIVTGDKVFVIDQGVEKAVFFNQTILPTSVAFELYAKRNIRTLPNNRILKGLGVDVTNGFVIWDYTNQTPLYRNTVKVCAYTDIEPNGLIVLYDDRYGDYQSFLAADNAVLVSTQCYKRYSYVEIPSNLLVQNGIPLKDGANLYVYKRVNGAFVTLPNTLNTQGRSYETFEPRSDVERDFLDMSEESFVEKYGKELGLQHILYGEVDKPQLGGLHTVIGMCRLLRANKLNAKSVTNSDSDVMQNYFVLADNGSYKQVCTVVDLLLDDFLELLRNILKEYGTNKSKVVTVSIDYHSINFMAWFEDGIIKTCYPQLQSAWTCGYNMPELYKVQNCVMEPCNIPNYGVGIALPSGIMMNVAKYTQLCQYLSKTTMCVPHNMRVMHFGAGSDKGVAPGSTVLKQWLPEGTLLVDNDIVDYVSDAHVSVLSDCNKYKTEHKFDLVISDMYTDNDSKRKHEGVIANNGNDDVFIYLSSFLRNNLALGGSFAVKVTETSWHEVLYDIAQDCAWWTMFCTAVNASSSEAFLVGVNYLGASEKVKVSGKTLHANYIFWRNCNYLQTSAYSIFDVAKFDLRLKATPVVNLKTEQKTDLVFNLIKCGKLLVRDVGNTSFTSDSFVCTM |
| 2309 | sp|Q09683|RAD32\_SCHPO | MPNDPSDMNNELHNENTIRILISSDPHVGYGEKDPVRGNDSFVSFNEILEIARERDVDMILLGGDIFHDNKPSRKALYQALRSLRLNCLGDKPCELELLSDTSLTTGDTAVCNINYLDPNINVAIPVFSIHGNHDDPSGDGRYSALDILQVTGLVNYFGRVPENDNIVVSPILLQKGFTKLALYGISNVRDERLYHSFRENKVKFLRPDLYRDEWFNLLTVHQNHSAHTPTSYLPESFIQDFYDFVLWGHEHECLIDGSYNPTQKFTVVQPGSTIATSLSPGETAPKHCGILNITGKDFHLEKIRLRTVRPFIMKDIILSEVSSIPPMVENKKEVLTYLISKVEEAITEANAQWYEAQGTVPVVENEKPPLPLIRLRVDYTGGYQTENPQRFSNRFVGRVANATDVVQFYLKKKYTRSKRNDGLYTSAVEDIKINSLRVESLVNEYLKTNRLECLPEDSLGEAVVNFVEKDDRDAIKECVETQLNKQINLLVKKRVTEENLEQEISSIINDLPKISTTKRKDYEELPEEVSETSINIAEHTPVLKHTSSLLDHHSPLATSSSEHEMEATPSPALLKKTNKRRELPSSLTKKNTRTPQRSKEVKKVPARKLSQSTKKSDKNTQSTLLFYDPSSTTEAQYLDNEDDEILDD |
| 2310 | sp|Q9SMQ6|RAA4B\_ARATH | MAGGGGYGGASGKVDYVFKVVLIGDSAVGKSQLLARFARDEFSMDSKATIGVEFQTRTLSIEQKSIKAQIWDTAGQERYRAVTSAYYRGAVGAMLVYDMTKRETFEHIPRWLEELRAHADKNIVIILIGNKSDLEDQRAVPTEDAKEFAEKEGLFFLETSALNATNVENSFNTLMTQIYNTVNKKNLASEGDSNNPGSLAGKKILIPGSGQEIPAKTSTCCTSS |
| 2311 | sp|Q9Y2K5|R3HD2\_HUMAN | MSNSNTTQETLEIMKESEKKLVEESVNKNKFISKTPSKEEIEKECEDTSLRQETQRRTSNHGHARKRAKSNSKLKLVRSLAVCEESSTPFADGPLETQDIIQLHISCPSDKEEEKSTKDVSEKEDKDKNKEKIPRKMLSRDSSQEYTDSTGIDLHEFLVNTLKKNPRDRMMLLKLEQEILEFINDNNNQFKKFPQMTSYHRMLLHRVAAYFGMDHNVDQTGKAVIINKTSNTRIPEQRFSEHIKDEKNTEFQQRFILKRDDASMDRDDNQTGQNGYLNDIRLSKEAFSSSSHKRRQIFRGNREGLSRTSSSRQSSTDSELKSLEPRPWSSTDSDGSVRSMRPPVTKASSFSGISILTRGDSIGSSKGGSAGRISRPGMALGAPEVCNQVTSSQSVRGLLPCTAQQQQQQQQQQLPALPPTPQQQPPLNNHMISQADDLSNPFGQMSLSRQGSTEAADPSAALFQTPLISQHPQQTSFIMASTGQPLPTSNYSTSSHAPPTQQVLPPQGYMQPPQQIQVSYYPPGQYPNSNQQYRPLSHPVAYSPQRGQQLPQPSQQPGLQPMMPNQQQAAYQGMIGVQQPQNQGLLSSQRSSMGGQMQGLVVQYTPLPSYQVPVGSDSQNVVQPPFQQPMLVPVSQSVQGGLPAAGVPVYYSMIPPAQQNGTSPSVGFLQPPGSEQYQMPQSPSPCSPPQMPQQYSGVSPSGPGVVVMQLNVPNGPQPPQNPSMVQWSHCKYYSMDQRGQKPGDLYSPDSSPQANTQMSSSPVTSPTQSPAPSPVTSLSSVCTGLSPLPVLTQFPRPGGPAQGDGRYSLLGQPLQYNLSICPPLLHGQSTYTVHQGQSGLKHGNRGKRQALKSASTDLGTADVVLGRVLEVTDLPEGITRTEADKLFTQLAMSGAKIQWLKDAQGLPGGGGGDNSGTAENGRHSDLAALYTIVAVFPSPLAAQNASLRLNNSVSRFKLRMAKKNYDLRILERASSQ |
| 2312 | sp|P21457|RECO\_BOVIN | MGNSKSGALSKEILEELQLNTKFTEEELSSWYQSFLKECPSGRITRQEFQTIYSKFFPEADPKAYAQHVFRSFDANSDGTLDFKEYVIALHMTSAGKTNQKLEWAFSLYDVDGNGTISKNEVLEIVTAIFKMISPEDTKHLPEDENTPEKRAEKIWGFFGKKDDDKLTEKEFIEGTLANKEILRLIQFEPQKVKEKLKEKKL |
| 2313 | sp|P27708|PYR1\_HUMAN | MAALVLEDGSVLRGQPFGAAVSTAGEVVFQTGMVGYPEALTDPSYKAQILVLTYPLIGNYGIPPDEMDEFGLCKWFESSGIHVAALVVGECCPTPSHWSATRTLHEWLQQHGIPGLQGVDTRELTKKLREQGSLLGKLVQNGTEPSSLPFLDPNARPLVPEVSIKTPRVFNTGGAPRILALDCGLKYNQIRCLCQRGAEVTVVPWDHALDSQEYEGLFLSNGPGDPASYPSVVSTLSRVLSEPNPRPVFGICLGHQLLALAIGAKTYKMRYGNRGHNQPCLLVGSGRCFLTSQNHGFAVETDSLPADWAPLFTNANDGSNEGIVHNSLPFFSVQFHPEHQAGPSDMELLFDIFLETVKEATAGNPGGQTVRERLTERLCPPGIPTPGSGLPPPRKVLILGSGGLSIGQAGEFDYSGSQAIKALKEENIQTLLINPNIATVQTSQGLADKVYFLPITPHYVTQVIRNERPDGVLLTFGGQTALNCGVELTKAGVLARYGVRVLGTPVETIELTEDRRAFAARMAEIGEHVAPSEAANSLEQAQAAAERLGYPVLVRAAFALGGLGSGFASNREELSALVAPAFAHTSQVLVDKSLKGWKEIEYEVVRDAYGNCVTVCNMENLDPLGIHTGESIVVAPSQTLNDREYQLLRQTAIKVTQHLGIVGECNVQYALNPESEQYYIIEVNARLSRSSALASKATGYPLAYVAAKLALGIPLPELRNSVTGGTAAFEPSVDYCVVKIPRWDLSKFLRVSTKIGSCMKSVGEVMGIGRSFEEAFQKALRMVDENCVGFDHTVKPVSDMELETPTDKRIFVVAAALWAGYSVDRLYELTRIDRWFLHRMKRIIAHAQLLEQHRGQPLPPDLLQQAKCLGFSDKQIALAVLSTELAVRKLRQELGICPAVKQIDTVAAEWPAQTNYLYLTYWGTTHDLTFRTPHVLVLGSGVYRIGSSVEFDWCAVGCIQQLRKMGYKTIMVNYNPETVSTDYDMCDRLYFDEISFEVVMDIYELENPEGVILSMGGQLPNNMAMALHRQQCRVLGTSPEAIDSAENRFKFSRLLDTIGISQPQWRELSDLESARQFCQTVGYPCVVRPSYVLSGAAMNVAYTDGDLERFLSSAAAVSKEHPVVISKFIQEAKEIDVDAVASDGVVAAIAISEHVENAGVHSGDATLVTPPQDITAKTLERIKAIVHAVGQELQVTGPFNLQLIAKDDQLKVIECNVRVSRSFPFVSKTLGVDLVALATRVIMGEEVEPVGLMTGSGVVGVKVPQFSFSRLAGADVVLGVEMTSTGEVAGFGESRCEAYLKAMLSTGFKIPKKNILLTIGSYKNKSELLPTVRLLESLGYSLYASLGTADFYTEHGVKVTAVDWHFEEAVDGECPPQRSILEQLAEKNFELVINLSMRGAGGRRLSSFVTKGYRTRRLAADFSVPLIIDIKCTKLFVEALGQIGPAPPLKVHVDCMTSQKLVRLPGLIDVHVHLREPGGTHKEDFASGTAAALAGGITMVCAMPNTRPPIIDAPALALAQKLAEAGARCDFALFLGASSENAGTLGTVAGSAAGLKLYLNETFSELRLDSVVQWMEHFETWPSHLPIVAHAEQQTVAAVLMVAQLTQRSVHICHVARKEEILLIKAAKARGLPVTCEVAPHHLFLSHDDLERLGPGKGEVRPELGSRQDVEALWENMAVIDCFASDHAPHTLEEKCGSRPPPGFPGLETMLPLLLTAVSEGRLSLDDLLQRLHHNPRRIFHLPPQEDTYVEVDLEHEWTIPSHMPFSKAHWTPFEGQKVKGTVRRVVLRGEVAYIDGQVLVPPGYGQDVRKWPQGAVPQLPPSAPATSEMTTTPERPRRGIPGLPDGRFHLPPRIHRASDPGLPAEEPKEKSSRKVAEPELMGTPDGTCYPPPPVPRQASPQNLGTPGLLHPQTSPLLHSLVGQHILSVQQFTKDQMSHLFNVAHTLRMMVQKERSLDILKGKVMASMFYEVSTRTSSSFAAAMARLGGAVLSFSEATSSVQKGESLADSVQTMSCYADVVVLRHPQPGAVELAAKHCRRPVINAGDGVGEHPTQALLDIFTIREELGTVNGMTITMVGDLKHGRTVHSLACLLTQYRVSLRYVAPPSLRMPPTVRAFVASRGTKQEEFESIEEALPDTDVLYMTRIQKERFGSTQEYEACFGQFILTPHIMTRAKKKMVVMHPMPRVNEISVEVDSDPRAAYFRQAENGMYIRMALLATVLGRF |
| 2314 | sp|Q9Y3P9|RBGP1\_HUMAN | MDDKASVGKISVSSDSVSTLNSEDFVLVSRQGDETPSTNNGSDDEKTGLKIVGNGSEQQLQKELADVLMDPPMDDQPGEKELVKRSQLDGEGDGPLSNQLSASSTINPVPLVGLQKPEMSLPVKPGQGDSEASSPFTPVADEDSVVFSKLTYLGCASVNAPRSEVEALRMMSILRSQCQISLDVTLSVPNVSEGIVRLLDPQTNTEIANYPIYKILFCVRGHDGTPESDCFAFTESHYNAELFRIHVFRCEIQEAVSRILYSFATAFRRSAKQTPLSATAAPQTPDSDIFTFSVSLEIKEDDGKGYFSAVPKDKDRQCFKLRQGIDKKIVIYVQQTTNKELAIERCFGLLLSPGKDVRNSDMHLLDLESMGKSSDGKSYVITGSWNPKSPHFQVVNEETPKDKVLFMTTAVDLVITEVQEPVRFLLETKVRVCSPNERLFWPFSKRSTTENFFLKLKQIKQRERKNNTDTLYEVVCLESESERERRKTTASPSVRLPQSGSQSSVIPSPPEDDEEEDNDEPLLSGSGDVSKECAEKILETWGELLSKWHLNLNVRPKQLSSLVRNGVPEALRGEVWQLLAGCHNNDHLVEKYRILITKESPQDSAITRDINRTFPAHDYFKDTGGDGQDSLYKICKAYSVYDEEIGYCQGQSFLAAVLLLHMPEEQAFSVLVKIMFDYGLRELFKQNFEDLHCKFYQLERLMQEYIPDLYNHFLDISLEAHMYASQWFLTLFTAKFPLYMVFHIIDLLLCEGISVIFNVALGLLKTSKDDLLLTDFEGALKFFRVQLPKRYRSEENAKKLMELACNMKISQKKLKKYEKEYHTMREQQAQQEDPIERFERENRRLQEANMRLEQENDDLAHELVTSKIALRKDLDNAEEKADALNKELLMTKQKLIDAEEEKRRLEEESAQLKEMCRRELDKAESEIKKNSSIIGDYKQICSQLSERLEKQQTANKVEIEKIRQKVDDCERCREFFNKEGRVKGISSTKEVLDEDTDEEKETLKNQLREMELELAQTKLQLVEAECKIQDLEHHLGLALNEVQAAKKTWFNRTLSSIKTATGVQGKETC |
| 2315 | sp|Q8VCH7|RDH10\_MOUSE | MNIVVEFFVVTFKVLWAFVLAAARWLVRPKEKSVAGQVCLITGAGSGLGRLFALEFARRRALLVLWDINTQSNEETAGMVRHIYRDLEAADAAALQAGKGEEEILPPCNLQVFTYTCDVGKRENVYLTAERVRKEVGEVSVLVNNAGVVSGHHLLECPDELIERTMMVNCHAHFWTTKAFLPTMLEINHGHIVTVASSLGLFSTAGVEDYCASKFGVVGFHESLSHELKAAEKDGIKTTLVCPYLVDTGMFRGCRIRKEIEPFLPPLKPDYCVKQAMRAILTDQPMVCTPRLMYIVTFMKSILPFEAVVCMYRFLGADKCMYPFIAQRKQATNNNEAKNGI |
| 2316 | sp|Q9Y580|RBM7\_HUMAN | MGAAAAEADRTLFVGNLETKVTEELLFELFHQAGPVIKVKIPKDKDGKPKQFAFVNFKHEVSVPYAMNLLNGIKLYGRPIKIQFRSGSSHAPQDVSLSYPQHHVGNSSPTSTSPSRYERTMDNMTSSAQIIQRSFSSPENFQRQAVMNSALRQMSYGGKFGSSPLDQSGFSPSVQSHSHSFNQSSSSQWRQGTPSSQRKVRMNSYPYLADRHYSREQRYTDHGSDHHYRGKRDDFFYEDRNHDDWSHDYDNRRDSSRDGKWRSSRH |
| 2317 | sp|Q05920|PYC\_MOUSE | MLKFQTVRGGLRLLGVRRSSSAPVASPNVRRLEYKPIKKVMVANRGEIAIRVFRACTELGIRTVAVYSEQDTGQMHRQKADEAYLIGRGLAPVQAYLHIPDIIKVAKENGVDAVHPGYGFLSERADFAQACQDAGVRFIGPSPEVVRKMGDKVEARAIAIAAGVPVVPGTDSPISSLHEAHEFSNTFGFPIIFKAAYGGGGRGMRVVHSYEELEENYTRAYSEALAAFGNGALFVEKFIEKPRHIEVQILGDQYGNILHLYERDCSIQRRHQKVVEIAPATHLDPQLRSRLTSDSVKLAKQVGYENAGTVEFLVDKHGKHYFIEVNSRLQVEHTVTEEITDVDLVHAQIHVSEGRSLPDLGLRQENIRINGCAIQCRVTTEDPARSFQPDTGRIEVFRSGEGMGIRLDNASAFQGAVISPHYDSLLVKVIAHGKDHPTAATKMSRALAEFRVRGVKTNIPFLQNVLNNQQFLAGTVDTQFIDENPELFQLRPAQNRAQKLLHYLGHVMVNGPTTPIPVNVSPSPVDPAVPVVPIGPPPAGFRDILLREGPEGFARAVRNHQGLLLMDTTFRDAHQSLLATRVRTHDLKKIAPYVAHNFNKLFSMENWGGATFDVAMRFLYECPWRRLQELRELIPNIPFQMLLRGANAVGYTNYPDNVVFKFCEVAKENGMDVFRVFDSLNYLPNMLLGMEAAGSAGGVVEAAISYTGDVADPSRTKYSLEYYMGLAEELVRAGTHILCIKDMAGLLKPAACTMLVSSLRDRFPDLPLHIHTHDTSGAGVAAMLACAQAGADVVDVAVDSMSGMTSQPSMGALVACTKGTPLDTEVPLERVFDYSEYWEGARGLYAAFDCTATMKSGNSDVYENEIPGGQYTNLHFQAHSMGLGSKFKEVKKAYVEANQMLGDLIKVTPSSKIVGDLAQFMVQNGLSRAEAEAQAEELSFPRSVVEFLQGYIGIPHGGFPEPFRSKVLKDLPRIEGRPGASLPPLNLKELEKDLIDRHGEEVTPEDVLSAAMYPDVFAQFKDFTATFGPLDSLNTRLFLQGPKIAEEFEVELERGKTLHIKALAVSDLNRAGQRQVFFELNGQLRSILVKDTQAMKEMHFHPKALKDVKGQIGAPMPGKVIDIKVAAGDKVAKGQPLCVLSAMKMETVVTSPMEGTIRKVHVTKDMTLEGDDLILEIE |
| 2318 | sp|Q75NR7|RECQ4\_MOUSE | MERLATVRARLQEWERAFARLHGRRPAKGDVEAAPEETRALYREYRNLKQAVRQADDRHRVLEQSLAEAAEEAQEPSCWGPHLSRAATQNTQSMPKQSLLSSVQDYGKRLKANLKNTTQTGPTQSRKLQLQKRSLSTVPAPRPPGSKTESPCPDEADDALPRVPEPRPRLGQLQQLRSSLSRRLTSLDPGWLERCHNRVSDLLEVPGACGLDLSAEESQPQMSGKVNIADPDIQSEVSVQSPEAIAQQPAQVLSQSPKSINSKGRKRKWNEKGEDFAQDQPSSGAGPLSEGARATVHGQDPPGEPTQVNVPQPCNSSNQARTEKAKGTTHLHASPRPASLDRGNYIRLNMKNKRFVRVGANRGRLLRKQVWKQKWKKKQAAFGGSGPRATDKDTCFRCGQFGHWASQCSQPGPTLTVQEEGDRDDKQPISTLEEVAQRTGTASCHHSGEETQPAAPELQVPHCPTPMSPLYPPGPLGQVAETPAEVFQALERLGYRAFRPGQERAIMRILSGISTLLVLPTGAGKSLCYQLPALLYAQRSPCLTLVVSPLLSLMDDQVSDLPSCLKAACLHSGMTKKQRESVLKKVRAAQVHVLIVSPEALVGCGARGPGSLPQAAQLPPIAFACIDEVHCLSQWSHNFRPCYLRVCKVLREHMGVRCFLGLTATATRSTARDVAQHLGIAGEFELSGSANIPANLHLSVSMDRDSDQALVTLLQGDRFRTLDSVIIYCTRERIQNGWLALLRTCLSMVGDSRPRGCGPEAIAEAYHAGMSSQERRRVQQAFMRGHLRMVVATVAFGMGLDRPDVRAVLHLGLPPSFESYVQAIGRAGRDGKPAHCHLFMHPQGEDLWELRRHAHADSTDFLAVKRLVQRVFPPCTCSQRPVSKSSPEEVKEHSGQQTYPVLGQACLGHERALPVQSTVQALDMTEEAIETLLCYLELHPRHWLELLPWTYAQCHLHCLGGSAQLQALAHRCPPLAACQAKWPPKDTSQGRSSLEFGVVELADSMGWKLASVRQALHQLKWDPEPKKGAAQGTGVLVKFSELAFHLHSRGDLTDEEKDQICDFLYNRVQAREHKALAHLHQMSKAFRSVAFPSCGPCLEQSNEEHSNQVKTLVSYYFEEEEEEEETMTDTQGPKPGQTQLQDWEDQIRRDVRQLLSLRPEERFSGRAVARIFHGIASPCYPAQVYGLDRRFWRKYLHLDFHALMHLATEELLLRGR |
| 2319 | sp|P62493|RB11A\_RABIT | MGTRDDEYDYLFKVVLIGDSGVGKSNLLSRFTRNEFNLESKSTIGVEFATRSIQVDGKTIKAQIWDTAGQERYRAITSAYYRGAVGALLVYDIAKHLTYENVERWLKELRDHADSNIVIMLVGNKSDLRHLRAVPTDEARAFAEKNGLSFIETSALDSTNVEAAFQTILTEIYRIVSQKQMSDRRENDMSPSNNVVPIHVPPTTENKPKVQCCQNI |
| 2320 | sp|Q8VE37|RCC1\_MOUSE | MPPKRIAKRRSPPEDAIPKSKKVKVSHRSHNTEPGLVLTLGQGDVGQLGLGESVLERKKPALVPLLQDVVQAEAGGMHTVCLSQSGQVYSFGCNDEGALGRDTSVEGSEMVPGKVELQEKVVQVSAGDSHTAALTEDGRVFLWGSFRDNNGVIGLLEPMKKSMVPVQVQLDAPVVKVASGNDHLVMLTNDGDLYTLGCGEQGQLGRVPELFANRGGRQGLGRLLVPRCVLLKSRGTRGRVRFQDAFCGAYFTFAISREGHVYGFGLSNYHQLGTPGTGSCFIPQNLTSFKNSTKSWVGFSGGQHHTVCMDSEGKAYSLGRAEYGRLGLGEGAEEKSIPTLISRLPVVSSVACGASVGYAVSKDGRVFAWGMGTNYQLGTGQDEDAWSPVEMTGKQLENRVVLTVSSGGQHTVLLVKDQAQS |
| 2321 | sp|Q96D71|REPS1\_HUMAN | MEGLTLSDAEQKYYSDLFSYCDIESTKKVVVNGRVLELFRAAQLPNDVVLQIMELCGATRLGYFGRSQFYIALKLVAVAQSGFPLRVESINTVKDLPLPRFVASKNEQESRHAASYSSDSENQGSYSGVIPPPPGRGQVKKGSVSHDTVQPRTSADAQEPASPVVSPQQSPPTSPHTWRKHSRHPSGGNSERPLAGPGPFWSPFGEAQSGSSAGDAVWSGHSPPPPQENWVSFADTPPTSTLLTMHPASVQDQTTVRTVASATTAIEIRRQSSSYDDPWKITDEQRQYYVNQFKTIQPDLNGFIPGSAAKEFFTKSKLPILELSHIWELSDFDKDGALTLDEFCAAFHLVVARKNGYDLPEKLPESLMPKLIDLEDSADVGDQPGEVGYSGSPAEAPPSKSPSMPSLNQTWPELNQSSEQWETFSERSSSSQTLTQFDSNIAPADPDTAIVHPVPIRMTPSKIHMQEMELKRTGSDHTNPTSPLLVKPSDLLEENKINSSVKFASGNTVADGYSSSDSFTSDPEQIGSNVTRQRSHSGTSPDNTAPPPPPPRPQPSHSRSSSLDMNRTFTVTTGQQQAGVVAHPPAVPPRPQPSQAPGPAVHRPVDADGLITHTSTSPQQIPEQPNFADFSQFEVFAASNVNDEQDDEAEKHPEVLPAEKASDPASSLRVAKTDSKTEEKTAASAPANVSKGTTPLAPPPKPVRRRLKSEDELRPEVDEHTQKTGVLAAVLASQPSIPRSVGKDKKAIQASIRRNKETNTVLARLNSELQQQLKDVLEERISLEVQLEQLRPFSHL |
| 2322 | sp|P32252|RASB\_DICDI | MSVSNEYKLVVMGGGGVGKSALTIQFIQNHFIEEYDPTIEDSYRRQCQVDEDTCLLDILDTAGQDDYSAMRDQYMRTGQGFLCVYDVTSRTSFEEINVVREQIIRVKDNDKVPIVLVGNKCDLENLREVTEGEGSELAKSFSVPFLETSAKKRLNVDECFFEVVREIKKSLKEPGRSKKDKKGGILKKFKGGDCLIL |
| 2323 | sp|P49792|RBP2\_HUMAN | MRRSKADVERYIASVQGSTPSPRQKSMKGFYFAKLYYEAKEYDLAKKYICTYINVQERDPKAHRFLGLLYELEENTDKAVECYRRSVELNPTQKDLVLKIAELLCKNDVTDGRAKYWLERAAKLFPGSPAIYKLKEQLLDCEGEDGWNKLFDLIQSELYVRPDDVHVNIRLVEVYRSTKRLKDAVAHCHEAERNIALRSSLEWNSCVVQTLKEYLESLQCLESDKSDWRATNTDLLLAYANLMLLTLSTRDVQESRELLQSFDSALQSVKSLGGNDELSATFLEMKGHFYMHAGSLLLKMGQHSSNVQWRALSELAALCYLIAFQVPRPKIKLIKGEAGQNLLEMMACDRLSQSGHMLLNLSRGKQDFLKEIVETFANKSGQSALYDALFSSQSPKDTSFLGSDDIGNIDVREPELEDLTRYDVGAIRAHNGSLQHLTWLGLQWNSLPALPGIRKWLKQLFHHLPHETSRLETNAPESICILDLEVFLLGVVYTSHLQLKEKCNSHHSSYQPLCLPLPVCKQLCTERQKSWWDAVCTLIHRKAVPGNVAKLRLLVQHEINTLRAQEKHGLQPALLVHWAECLQKTGSGLNSFYDQREYIGRSVHYWKKVLPLLKIIKKKNSIPEPIDPLFKHFHSVDIQASEIVEYEEDAHITFAILDAVNGNIEDAVTAFESIKSVVSYWNLALIFHRKAEDIENDALSPEEQEECKNYLRKTRDYLIKIIDDSDSNLSVVKKLPVPLESVKEMLNSVMQELEDYSEGGPLYKNGSLRNADSEIKHSTPSPTRYSLSPSKSYKYSPKTPPRWAEDQNSLLKMICQQVEAIKKEMQELKLNSSNSASPHRWPTENYGPDSVPDGYQGSQTFHGAPLTVATTGPSVYYSQSPAYNSQYLLRPAANVTPTKGPVYGMNRLPPQQHIYAYPQQMHTPPVQSSSACMFSQEMYGPPALRFESPATGILSPRGDDYFNYNVQQTSTNPPLPEPGYFTKPPIAAHASRSAESKTIEFGKTNFVQPMPGEGLRPSLPTQAHTTQPTPFKFNSNFKSNDGDFTFSSPQVVTQPPPAAYSNSESLLGLLTSDKPLQGDGYSGAKPIPGGQTIGPRNTFNFGSKNVSGISFTENMGSSQQKNSGFRRSDDMFTFHGPGKSVFGTPTLETANKNHETDGGSAHGDDDDDGPHFEPVVPLPDKIEVKTGEEDEEEFFCNRAKLFRFDVESKEWKERGIGNVKILRHKTSGKIRLLMRREQVLKICANHYISPDMKLTPNAGSDRSFVWHALDYADELPKPEQLAIRFKTPEEAALFKCKFEEAQSILKAPGTNVAMASNQAVRIVKEPTSHDNKDICKSDAGNLNFEFQVAKKEGSWWHCNSCSLKNASTAKKCVSCQNLNPSNKELVGPPLAETVFTPKTSPENVQDRFALVTPKKEGHWDCSICLVRNEPTVSRCIACQNTKSANKSGSSFVHQASFKFGQGDLPKPINSDFRSVFSTKEGQWDCSACLVQNEGSSTKCAACQNPRKQSLPATSIPTPASFKFGTSETSKTLKSGFEDMFAKKEGQWDCSSCLVRNEANATRCVACQNPDKPSPSTSVPAPASFKFGTSETSKAPKSGFEGMFTKKEGQWDCSVCLVRNEASATKCIACQNPGKQNQTTSAVSTPASSETSKAPKSGFEGMFTKKEGQWDCSVCLVRNEASATKCIACQNPGKQNQTTSAVSTPASSETSKAPKSGFEGMFTKKEGQWDCSVCLVRNEASATKCIACQCPSKQNQTTAISTPASSEISKAPKSGFEGMFIRKGQWDCSVCCVQNESSSLKCVACDASKPTHKPIAEAPSAFTLGSEMKLHDSSGSQVGTGFKSNFSEKASKFGNTEQGFKFGHVDQENSPSFMFQGSSNTEFKSTKEGFSIPVSADGFKFGISEPGNQEKKSEKPLENGTGFQAQDISGQKNGRGVIFGQTSSTFTFADLAKSTSGEGFQFGKKDPNFKGFSGAGEKLFSSQYGKMANKANTSGDFEKDDDAYKTEDSDDIHFEPVVQMPEKVELVTGEEDEKVLYSQRVKLFRFDAEVSQWKERGLGNLKILKNEVNGKLRMLMRREQVLKVCANHWITTTMNLKPLSGSDRAWMWLASDFSDGDAKLEQLAAKFKTPELAEEFKQKFEECQRLLLDIPLQTPHKLVDTGRAAKLIQRAEEMKSGLKDFKTFLTNDQTKVTEEENKGSGTGAAGASDTTIKPNPENTGPTLEWDNYDLREDALDDSVSSSSVHASPLASSPVRKNLFRFGESTTGFNFSFKSALSPSKSPAKLNQSGTSVGTDEESDVTQEEERDGQYFEPVVPLPDLVEVSSGEENEQVVFSHRAKLYRYDKDVGQWKERGIGDIKILQNYDNKQVRIVMRRDQVLKLCANHRITPDMTLQNMKGTERVWLWTACDFADGERKVEHLAVRFKLQDVADSFKKIFDEAKTAQEKDSLITPHVSRSSTPRESPCGKIAVAVLEETTRERTDVIQGDDVADATSEVEVSSTSETTPKAVVSPPKFVFGSESVKSIFSSEKSKPFAFGNSSATGSLFGFSFNAPLKSNNSETSSVAQSGSESKVEPKKCELSKNSDIEQSSDSKVKNLFASFPTEESSINYTFKTPEKAKEKKKPEDSPSDDDVLIVYELTPTAEQKALATKLKLPPTFFCYKNRPDYVSEEEEDDEDFETAVKKLNGKLYLDGSEKCRPLEENTADNEKECIIVWEKKPTVEEKAKADTLKLPPTFFCGVCSDTDEDNGNGEDFQSELQKVQEAQKSQTEEITSTTDSVYTGGTEVMVPSFCKSEEPDSITKSISSPSVSSETMDKPVDLSTRKEIDTDSTSQGESKIVSFGFGSSTGLSFADLASSNSGDFAFGSKDKNFQWANTGAAVFGTQSVGTQSAGKVGEDEDGSDEEVVHNEDIHFEPIVSLPEVEVKSGEEDEEILFKERAKLYRWDRDVSQWKERGVGDIKILWHTMKNYYRILMRRDQVFKVCANHVITKTMELKPLNVSNNALVWTASDYADGEAKVEQLAVRFKTKEVADCFKKTFEECQQNLMKLQKGHVSLAAELSKETNPVVFFDVCADGEPLGRITMELFSNIVPRTAENFRALCTGEKGFGFKNSIFHRVIPDFVCQGGDITKHDGTGGQSIYGDKFEDENFDVKHTGPGLLSMANQGQNTNNSQFVITLKKAEHLDFKHVVFGFVKDGMDTVKKIESFGSPKGSVCRRITITECGQI |
| 2324 | sp|Q12188|REC8\_YEAST | MAPLSLNFKDDKKYKGLTTVWLLSALGNSIVKESNNYYSNKSNSTGNISSSTVKKKDIVNISIPKTCDEIQNFENDFSLRYISNLLYGVTICYNKKTEYVLNDLNHLLVQLQKNDVYAFKAKNKSTRINGLNSNNSIIGNKNNNYTWEECVFFDDDPLYDITKVPALEFLNTTLQDNVSFIEEAKSIRRQDYINELSNSNRFELHGDMTNSDAQSNLGSNVRNSFPLDEIPVDVDFNLDLDDIVSHQGTPLGSHSSSQKDGNDFKFNYQGDELVLNFENDNENNSNGGEDTSVENEGPVANLKDYELGLEAQASEEENDLQQKLNTRMQRGHRADVGGQFSKVQFDAKTSYPNEVLKFNHGNYSHLMEKNRIRKLTGQNFLTSNISSLVRSCGEEEFFSTNWLSIFNDFSNIKTSEWDLYPQGFSSVERGRKRAHSLVSTQSSSSTRSHEYGRKSFRNNKNDNYSSDMENDNLLLNLEQINEDLEDGHYIEENSQGNILDFNLNLPPSSFGRSHTRNSTRSSGFNEDIVGALRRRVGPSEQNFAEEDDSSNSCFSDGSQQNLQQDKTNFQDVILDYQTKKFYDYIKERSIVVGRTTRSNPPFKRKMLLVDIIPSRMGEAQTGANFDDVERGVSRQIAASAFLSLLNLATKGMVKLNEYPVADAVTKDLKLRREDEIIVYA |
| 2325 | sp|Q96PK6|RBM14\_HUMAN | MKIFVGNVDGADTTPEELAALFAPYGTVMSCAVMKQFAFVHMRENAGALRAIEALHGHELRPGRALVVEMSRPRPLNTWKIFVGNVSAACTSQELRSLFERRGRVIECDVVKDYAFVHMEKEADAKAAIAQLNGKEVKGKRINVELSTKGQKKGPGLAVQSGDKTKKPGAGDTAFPGTGGFSATFDYQQAFGNSTGGFDGQARQPTPPFFGRDRSPLRRSPPRASYVAPLTAQPATYRAQPSVSLGAAYRAQPSASLGVGYRTQPMTAQAASYRAQPSVSLGAPYRGQLASPSSQSAAASSLGPYGGAQPSASALSSYGGQAAAASSLNSYGAQGSSLASYGNQPSSYGAQAASSYGVRAAASSYNTQGAASSLGSYGAQAASYGAQSAASSLAYGAQAASYNAQPSASYNAQSAPYAAQQAASYSSQPAAYVAQPATAAAYASQPAAYAAQATTPMAGSYGAQPVVQTQLNSYGAQASMGLSGSYGAQSAAAATGSYGAAAAYGAQPSATLAAPYRTQSSASLAASYAAQQHPQAAASYRGQPGNAYDGAGQPSAAYLSMSQGAVANANSTPPPYERTRLSPPRASYDDPYKKAVAMSKRYGSDRRLAELSDYRRLSESQLSFRRSPTKSSLDYRRLPDAHSDYARYSGSYNDYLRAAQMHSGYQRRM |
| 2326 | sp|P10896|RCA\_ARATH | MAAAVSTVGAINRAPLSLNGSGSGAVSAPASTFLGKKVVTVSRFAQSNKKSNGSFKVLAVKEDKQTDGDRWRGLAYDTSDDQQDITRGKGMVDSVFQAPMGTGTHHAVLSSYEYVSQGLRQYNLDNMMDGFYIAPAFMDKLVVHITKNFLTLPNIKVPLILGIWGGKGQGKSFQCELVMAKMGINPIMMSAGELESGNAGEPAKLIRQRYREAADLIKKGKMCCLFINDLDAGAGRMGGTTQYTVNNQMVNATLMNIADNPTNVQLPGMYNKEENARVPIICTGNDFSTLYAPLIRDGRMEKFYWAPTREDRIGVCKGIFRTDKIKDEDIVTLVDQFPGQSIDFFGALRARVYDDEVRKFVESLGVEKIGKRLVNSREGPPVFEQPEMTYEKLMEYGNMLVMEQENVKRVQLAETYLSQAALGDANADAIGRGTFYGKGAQQVNLPVPEGCTDPVAENFDPTARSDDGTCVYNF |
| 2327 | sp|Q02161|RHD\_HUMAN | MSSKYPRSVRRCLPLWALTLEAALILLFYFFTHYDASLEDQKGLVASYQVGQDLTVMAAIGLGFLTSSFRRHSWSSVAFNLFMLALGVQWAILLDGFLSQFPSGKVVITLFSIRLATMSALSVLISVDAVLGKVNLAQLVVMVLVEVTALGNLRMVISNIFNTDYHMNMMHIYVFAAYFGLSVAWCLPKPLPEGTEDKDQTATIPSLSAMLGALFLWMFWPSFNSALLRSPIERKNAVFNTYYAVAVSVVTAISGSSLAHPQGKISKTYVHSAVLAGGVAVGTSCHLIPSPWLAMVLGLVAGLISVGGAKYLPGCCNRVLGIPHSSIMGYNFSLLGLLGEIIYIVLLVLDTVGAGNGMIGFQVLLSIGELSLAIVIALMSGLLTGLLLNLKIWKAPHEAKYFDDQVFWKFPHLAVGF |
| 2328 | sp|O75154|RFIP3\_HUMAN | MASAPPASPPGSEPPGPDPEPGGPDGPGAAQLAPGPAELRLGAPVGGPDPQSPGLDEPAPGAAADGGARWSAGPAPGLEGGPRDPGPSAPPPRSGPRGQLASPDAPGPGPRSEAPLPELDPLFSWTEEPEECGPASCPESAPFRLQGSSSSHRARGEVDVFSPFPAPTAGELALEQGPGSPPQPSDLSQTHPLPSEPVGSQEDGPRLRAVFDALDGDGDGFVRIEDFIQFATVYGAEQVKDLTKYLDPSGLGVISFEDFYQGITAIRNGDPDGQCYGGVASAQDEEPLACPDEFDDFVTYEANEVTDSAYMGSESTYSECETFTDEDTSTLVHPELQPEGDADSAGGSAVPSECLDAMEEPDHGALLLLPGRPHPHGQSVITVIGGEEHFEDYGEGSEAELSPETLCNGQLGCSDPAFLTPSPTKRLSSKKVARYLHQSGALTMEALEDPSPELMEGPEEDIADKVVFLERRVLELEKDTAATGEQHSRLRQENLQLVHRANALEEQLKEQELRACEMVLEETRRQKELLCKMEREKSIEIENLQTRLQQLDEENSELRSCTPCLKANIERLEEEKQKLLDEIESLTLRLSEEQENKRRMGDRLSHERHQFQRDKEATQELIEDLRKQLEHLQLLKLEAEQRRGRSSSMGLQEYHSRARESELEQEVRRLKQDNRNLKEQNEELNGQIITLSIQGAKSLFSTAFSESLAAEISSVSRDELMEAIQKQEEINFRLQDYIDRIIVAIMETNPSILEVK |
| 2329 | sp|P61585|RHOA\_BOVIN | MAAIRKKLVIVGDGACGKTCLLIVFSKDQFPEVYVPTVFENYVADIEVDGKQVELALWDTAGQEDYDRLRPLSYPDTDVILMCFSIDSPDSLENIPEKWTPEVKHFCPNVPIILVGNKKDLRNDEHTRRELAKMKQEPVKPEEGRDMANRIGAFGYMECSAKTKDGVREVFEMATRAALQARRGKKKSGCLVL |
| 2330 | sp|P50651|RIR2A\_ARATH | MGSLKEGQGRDMEEGESEEPLLMAQNQRFTMFPIRYKSIWEMYKKAEASFWTAEEVDLSTDVQQWEALTDSEKHFISHILAFFAASDGIVLENLAARFLNDVQVPEARAFYGFQIAMENIHSEMYSLLLETFIKDSKEKDRLFNAIETIPCISKKAKWCLDWIQSPMSFAVRLVAFACVEGIFFSGSFCAIFWLKKRGLMPGLTFSNELISRDEGLHCDFACLLYSLLQKQLPLEKVYQIVHEAVEIETEFVCKALPCDLIGMNSNLMSQYIQFVADRLLVTLGCERTYKAENPFDWMEFISLQGKTNFFEKRVGEYQKASVMSNLQNGNQNYEFTTEEDF |
| 2331 | sp|P0A948|RIMJ\_ECOLI | MFGYRSNVPKVRLTTDRLVVRLVHDRDAWRLADYYAENRHFLKPWEPVRDESHCYPSGWQARLGMINEFHKQGSAFYFGLFDPDEKEIIGVANFSNVVRGSFHACYLGYSIGQKWQGKGLMFEALTAAIRYMQRTQHIHRIMANYMPHNKRSGDLLARLGFEKEGYAKDYLLIDGQWRDHVLTALTTPDWTPGR |
| 2332 | sp|P49804|RGS8\_RAT | MAALLMPRRNKGMRTRLGCLSHKSDSCSDFTAILPDKPNRALKRLSTEEATRWADSFDVLLSHKYGVAAFRAFLKTEFSEENLEFWLACEEFKKTRSTAKLVTKAHRIFEEFVDVQAPREVNIDFQTREATRKNMQEPSLTCFDQAQGKVHSLMEKDSYPRFLRSKMYLDLLSQSQRRLS |
| 2333 | sp|H2KZ60|RIG6\_CAEEL | MMMLIRCISIFLLFGFVNALIDEASCPIGWQIASDQCVRIVIAPANLKHSKKYCHHEGGELMDTSVTLLLEDVMDLLKNLHENGLSEPTFHVGGMGQALNRTEDGNYKIITINPSSHFPFICSLNKMARRSLLFQQKLLPVGAPQISLTGQSEIYFHPRHDADYIALPCTVQGNPKPTVAWYKNDVEVLSPSMSNVSYLLSGGNLLVPASSTLAYSSFHCTARNSLGEVRSPPILLKPSFIDPFRPHRLDVYSLATGGAKLDCDAPAHQPKSLTYSWLYGSSTDRILSQNERKFISLDGTLFFSYVTAEDEDSYACSLSVYSTQSGHYGPFFRLISSTPKLVNSTFPPKLDSTQPQIFPEDPKVGDSIYLECFAYASPLPQYKWSRVDGKPIPARSHISNYGRVLKIEKVNYGDAGKYKCVAMNAFGSAAGEVHVKLRAPPSILQGLHDRLVPTESNVSFECLLSNADSYSSVEWFKDAKPIVPLLLPAEKRKRLKIDHNVLHLKFADETDSGVYQCVASNDVGSSSSSALLTVKDSAPVFPPNAMSRKVFAAFGSTVSIPCIFEASPRFHGKWADAGGSKLPQKGRIRDEEGVISIEKVLHEDAGLFFCTAHNKLGKAHAQVQLIVVNKPSIKTNFLDEETVNMSCEVELTCENSAECPEALFEWKINDRPAKEYPSLKSKVHEKKSGHKGRHLKQKVDLEVPKSLAGSRQIGRFACSSLYGGSSEFVTKPQLPSPIALTVEQMDEDGKKKKMFRLRWRLPPQHRDTRDHSPKVEGYLVELRTRKNRKWRAAERQLVGNMEKDSITVENLLPNTEYQFRVRSVESAAIGEPSIPSDWVKTAPGAPSETIDNLKWRSLDSQTLLVEWQPIEIGQESSGDNLRYRVSWSEATVGKNATDDMKLSNQDDDFENHLDSDQPQAILKLNTTEGCRMVVLAVRPVNDQGNGSVGTDTIAFLNSHGELKKVSLHNVKPINASHVNISWTWDNTSDCDTKHAVQITCINLSGSEISATVASDRIFWMLGGLEAETAYDCDLKAIDNHGSFGPASKKFRIHTKQHPPSETPLIGKLMMKQMKDTYTTILEWSSIELQKPNRTENGCGYKIFIYISETATEAIELDMPLQRLSDRRNPSARLDGLKLMYMYTIKVAGYNPGGIGPISEPRSIRLGSPGTMDYTTGSSDVPIPSLLLLLLLLLWRL |
| 2334 | sp|P46779|RL28\_HUMAN | MSAHLQWMVVRNCSSFLIKRNKQTYSTEPNNLKARNSFRYNGLIHRKTVGVEPAADGKGVVVVIKRRSGQRKPATSYVRTTINKNARATLSSIRHMIRKNKYRPDLRMAAIRRASAILRSQKPVMVKRKRTRPTKSS |
| 2335 | sp|P62986|RL40\_RAT | MQIFVKTLTGKTITLEVEPSDTIENVKAKIQDKEGIPPDQQRLIFAGKQLEDGRTLSDYNIQKESTLHLVLRLRGGIIEPSLRQLAQKYNCDKMICRKCYARLHPRAVNCRKKKCGHTNNLRPKKKVK |
| 2336 | sp|Q02878|RL6\_HUMAN | MAGEKVEKPDTKEKKPEAKKVDAGGKVKKGNLKAKKPKKGKPHCSRNPVLVRGIGRYSRSAMYSRKAMYKRKYSAAKSKVEKKKKEKVLATVTKPVGGDKNGGTRVVKLRKMPRYYPTEDVPRKLLSHGKKPFSQHVRKLRASITPGTILIILTGRHRGKRVVFLKQLASGLLLVTGPLVLNRVPLRRTHQKFVIATSTKIDISNVKIPKHLTDAYFKKKKLRKPRHQEGEIFDTEKEKYEITEQRKIDQKAVDSQILPKIKAIPQLQGYLRSVFALTNGIYPHKLVF |
| 2337 | sp|Q9WTV7|RNF12\_MOUSE | MENSDSNDKGSDQSAAQRRSQMDRLDREEAFYQFVNNLSEEDYRLMRDNNLLGTPGESTEEELLRRLQQIKEGPPPQSPDENRAGESSDDVTNSDSIIDWLNSVRQTGNTTRSGQRGNQSWRAVSRTNPNSGDFRFSLEINVNRNNGSQTSENESEPSTRRLSVENMESSSQRQMENSASESASARPSRAERNSAEAVTEVPTTRAQRRARSRSPEHRRTRARAERSRSPLQPTSEIPRRAPTLEQSSENEPEGSSRTRHHVTLRQQISGPELLGRGLFAASGSRNPSQGTSSSDTGSNSESSGSGQRPPTIVLDLQVRRVRPGEYRQRDSIASRTRSRSQAPNNTVTYESERGGFRRTFSRSERAGVRTYVSTIRIPIRRILNTGLSETTSVAIQTMLRQIMTGFGELSYFMYSDSDSEPSASVSSRNVERVESRNGRGSSGGGNSSGSSSSSSPSPSSSGESSESSSEMFEGSSEGGSSGPSRRDGRHRAPVTFDESGSLPFLSLAQFFLLNEDDEDQPRGLTKEQIDNLAMRSFGENDALKTCSVCITEYTEGNKLRKLPCSHEYHVHCIDRWLSENSTCPICRRAVLSSGNRESVV |
| 2338 | sp|Q9NWF9|RN216\_HUMAN | MEEGNNNEEVIHLNNFHCHRGQEWINLRDGPITISDSSDEERIPMLVTPAPQQHEEEDLDDDVILTEDDSEDDYGEFLDLGPPGISEFTKPSGQTEREPKPGPSHNQAANDIVNPRSEQKVIILEEGSLLYTESDPLETQNQSSEDSETELLSNLGESAALADDQAIEEDCWLDHPYFQSLNQQPREITNQVVPQERQPEAELGRLLFQHEFPGPAFPRPEPQQGGISGPSSPQPAHPLGEFEDQQLASDDEEPGPAFPMQESQEPNLENIWGQEAAEVDQELVELLVKETEARFPDVANGFIEEIIHFKNYYDLNVLCNFLLENPDYPKREDRIIINPSSSLLASQDETKLPKIDFFDYSKLTPLDQRCFIQAADLLMADFKVLSSQDIKWALHELKGHYAITRKALSDAIKKWQELSPETSGKRKKRKQMNQYSYIDFKFEQGDIKIEKRMFFLENKRRHCRSYDRRALLPAVQQEQEFYEQKIKEMAEHEDFLLALQMNEEQYQKDGQLIECRCCYGEFPFEELTQCADAHLFCKECLIRYAQEAVFGSGKLELSCMEGSCTCSFPTSELEKVLPQTILYKYYERKAEEEVAAAYADELVRCPSCSFPALLDSDVKRFSCPNPHCRKETCRKCQGLWKEHNGLTCEELAEKDDIKYRTSIEEKMTAARIRKCHKCGTGLIKSEGCNRMSCRCGAQMCYLCRVSINGYDHFCQHPRSPGAPCQECSRCSLWTDPTEDDEKLIEEIQKEAEEEQKRKNGENTFKRIGPPLEKPVEKVQRVEALPRPVPQNLPQPQMPPYAFAHPPFPLPPVRPVFNNFPLNMGPIPAPYVPPLPNVRVNYDFGPIHMPLEHNLPMHFGPQPRHRF |
| 2339 | sp|Q5XPI4|RN123\_HUMAN | MASKGAGMSFSRKSYRLTSDAEKSRVTGIVQEKLLNDYLNRIFSSSEHAPPAATSRKPLNFQNLPEHLDQLLQVDNEEEESQGQVEGRLGPSTVVLDHTGGFEGLLLVDDDLLGVIGHSNFGTIRSTTCVYKGKWLYEVLISSQGLMQIGWCTISCRFNQEEGVGDTHNSYAYDGNRVRKWNVTTTNYGKAWAAGDIVSCLIDLDDGTLSFCLNGVSLGTAFENLSRGLGMAYFPAISLSFKESVAFNFGSRPLRYPVAGYRPLQDPPSADLVRAQRLLGCFRAVLSVELDPVEGRLLDKESSKWRLRGQPTVLLTLAHIFHHFAPLLRKVYLVEAVLMSFLLGIVEKGTPTQAQSVVHQVLDLLWLFMEDYEVQDCLKQLMMSLLRLYRFSPIVPDLGLQIHYLRLTIAILRHEKSRKFLLSNVLFDVLRSVVFFYIKSPLRVEEAGLQELIPTTWWPHCSSREGKESTEMKEETAEERLRRRAYERGCQRLRKRIEVVEELQVQILKLLLDNKDDNGGEASRYIFLTKFRKFLQENASGRGNMPMLCPPEYMVCFLHRLISALRYYWDEYKASNPHASFSEEAYIPPQVFYNGKVDYFDLQRLGGLLSHLRKTLKDDLASKANIVIDPLELQSTAMDDLDEDEEPAPAMAQRPMQALAVGGPLPLPRPGWLSSPTLGRANRFLSTAAVSLMTPRRPLSTSEKVKVRTLSVEQRTREDIEGSHWNEGLLLGRPPEEPEQPLTENSLLEVLDGAVMMYNLSVHQQLGKMVGVSDDVNEYAMALRDTEDKLRRCPKRRKDILAELTKSQKVFSEKLDHLSRRLAWVHATVYSQEKMLDIYWLLRVCLRTIEHGDRTGSLFAFMPEFYLSVAINSYSALKNYFGPVHSMEELPGYEETLTRLAAILAKHFADARIVGTDIRDSLMQALASYVCYPHSLRAVERIPEEQRIAMVRNLLAPYEQRPWAQTNWILVRLWRGCGFGYRYTRLPHLLKTKLEDANLPSLQKPCPSTLLQQHMADLLQQGPDVAPSFLNSVLNQLNWAFSEFIGMIQEIQQAAERLERNFVDSRQLKVCATCFDLSVSLLRVLEMTITLVPEIFLDWTRPTSEMLLRRLAQLLNQVLNRVTAERNLFDRVVTLRLPGLESVDHYPILVAVTGILVQLLVRGPASEREQATSVLLADPCFQLRSICYLLGQPEPPAPGTALPAPDRKRFSLQSYADYISADELAQVEQMLAHLTSASAQAAAASLPTSEEDLCPICYAHPISAVFQPCGHKSCKACINQHLMNNKDCFFCKTTIVSVEDWEKGANTSTTSSAA |
| 2340 | sp|Q8QZS5|RN183\_MOUSE | MSEPQGQELRAECPVCWNPFNNTFHTPKVLDCCHSFCVECLAHLSLVTPARRRLLCPLCRQPTVLASGQPVTDLPTDTAMLTLLRLEPHHVILEGHQLCLKDQPKSRYFLRQPRVYTLDLGAEPGSQTGLPQDTAPDTRPVPIPSHYSLRECVRNPHFRIFAYLMAVILSVTLLLIFSIFWTKQFFWGMG |
| 2341 | sp|Q9Y3B7|RM11\_HUMAN | MSKLGRAARGLRKPEVGGVIRAIVRAGLAMPGPPLGPVLGQRGVSINQFCKEFNERTKDIKEGIPLPTKILVKPDRTFEIKIGQPTVSYFLKAAAGIEKGARQTGKEVAGLVTLKHVYEIARIKAQDEAFALQDVPLSSVVRSIIGSARSLGIRVVKDLSSEELAAFQKERAIFLAAQKEADLAAQEEAAKK |
| 2342 | sp|P40693|RLP7\_YEAST | MSSTQDSKAQTLNSNPEILLRKRRNADRTRIERQELAKKKREEQIKKKRSNKNKFVRAESIVAKTLATSREKERIKRVSILEDKKAKNETQHIASGKDFILKITEKANGAEENSVDLEETEEEEDDGLIREKTTYDGKPALLFIVRVRGPLAVNIPNKAFKILSLLRLVETNTGVFVKLTKNVYPLLKVIAPYVVIGKPSLSSIRSLIQKRGRIIYKGENEAEPHEIVLNDNNIVEEQLGDHGIICVEDIIHEIATMGESFSVCNFFLQPFKLNREVSGFGSLNRLRKIKQREAESRTRQFSNAATAPVIEVDIDSLLAKLN |
| 2343 | sp|Q0WX00|RNG1B\_ARATH | MPSLKSFSAAEEEDDQLGRNSEAERFNPEAVEKEEDPDKMDEKDESGDEEDDVKRDQVEAEDEEALGEEEDSKERSQSSSAGELSESEYMVVDLADICKDVQCSICLGIIRKTRTVMECLHRFCRECIDKSMRLGNNECPTCRKHCASRRSLRDDPNFDALIAALFKNIDKFEEEELNFRQDDEARNKQIQASIAQVSQRQSKALVKRKSVGKGTAILSRSRRSGGGSRRRRNCRNIEQDTSEANDDDDQNKRGKDSSSDEPCERQRKKRSATQPSSSNANNNDNCAGNGTEQTHQRDSRVISPVLVWNSELIAWGRGGTRSNTRQGNNNQGAISKRNARLKRLVEYLGSLEGNSVELDIHLKLVSLDTEGLLNLHEPYLCFRPTLLVKQLREYVARHLKLKAEEVELLVSKDGDTVIGNKTSTEKMQSLQDDETVAKLKVDCISSNGYMIVVYRRKQIA |
| 2344 | sp|P0A8T7|RPOC\_ECOLI | MKDLLKFLKAQTKTEEFDAIKIALASPDMIRSWSFGEVKKPETINYRTFKPERDGLFCARIFGPVKDYECLCGKYKRLKHRGVICEKCGVEVTQTKVRRERMGHIELASPTAHIWFLKSLPSRIGLLLDMPLRDIERVLYFESYVVIEGGMTNLERQQILTEEQYLDALEEFGDEFDAKMGAEAIQALLKSMDLEQECEQLREELNETNSETKRKKLTKRIKLLEAFVQSGNKPEWMILTVLPVLPPDLRPLVPLDGGRFATSDLNDLYRRVINRNNRLKRLLDLAAPDIIVRNEKRMLQEAVDALLDNGRRGRAITGSNKRPLKSLADMIKGKQGRFRQNLLGKRVDYSGRSVITVGPYLRLHQCGLPKKMALELFKPFIYGKLELRGLATTIKAAKKMVEREEAVVWDILDEVIREHPVLLNRAPTLHRLGIQAFEPVLIEGKAIQLHPLVCAAYNADFDGDQMAVHVPLTLEAQLEARALMMSTNNILSPANGEPIIVPSQDVVLGLYYMTRDCVNAKGEGMVLTGPKEAERLYRSGLASLHARVKVRITEYEKDANGELVAKTSLKDTTVGRAILWMIVPKGLPYSIVNQALGKKAISKMLNTCYRILGLKPTVIFADQIMYTGFAYAARSGASVGIDDMVIPEKKHEIISEAEAEVAEIQEQFQSGLVTAGERYNKVIDIWAAANDRVSKAMMDNLQTETVINRDGQEEKQVSFNSIYMMADSGARGSAAQIRQLAGMRGLMAKPDGSIIETPITANFREGLNVLQYFISTHGARKGLADTALKTANSGYLTRRLVDVAQDLVVTEDDCGTHEGIMMTPVIEGGDVKEPLRDRVLGRVTAEDVLKPGTADILVPRNTLLHEQWCDLLEENSVDAVKVRSVVSCDTDFGVCAHCYGRDLARGHIINKGEAIGVIAAQSIGEPGTQLTMRTFHIGGAASRAAAESSIQVKNKGSIKLSNVKSVVNSSGKLVITSRNTELKLIDEFGRTKESYKVPYGAVLAKGDGEQVAGGETVANWDPHTMPVITEVSGFVRFTDMIDGQTITRQTDELTGLSSLVVLDSAERTAGGKDLRPALKIVDAQGNDVLIPGTDMPAQYFLPGKAIVQLEDGVQISSGDTLARIPQESGGTKDITGGLPRVADLFEARRPKEPAILAEISGIVSFGKETKGKRRLVITPVDGSDPYEEMIPKWRQLNVFEGERVERGDVISDGPEAPHDILRLRGVHAVTRYIVNEVQDVYRLQGVKINDKHIEVIVRQMLRKATIVNAGSSDFLEGEQVEYSRVKIANRELEANGKVGATYSRDLLGITKASLATESFISAASFQETTRVLTEAAVAGKRDELRGLKENVIVGRLIPAGTGYAYHQDRMRRRAAGEAPAAPQVTAEDASASLAELLNAGLGGSDNE |
| 2345 | sp|P19387|RPB3\_HUMAN | MPYANQPTVRITELTDENVKFIIENTDLAVANSIRRVFIAEVPIIAIDWVQIDANSSVLHDEFIAHRLGLIPLISDDIVDKLQYSRDCTCEEFCPECSVEFTLDVRCNEDQTRHVTSRDLISNSPRVIPVTSRNRDNDPNDYVEQDDILIVKLRKGQELRLRAYAKKGFGKEHAKWNPTAGVAFEYDPDNALRHTVYPKPEEWPKSEYSELDEDESQAPYDPNGKPERFYYNVESCGSLRPETIVLSALSGLKKKLSDLQTQLSHEIQSDVLTIN |
| 2346 | sp|P34087|RPB7\_YEAST | MFFIKDLSLNITLHPSFFGPRMKQYLKTKLLEEVEGSCTGKFGYILCVLDYDNIDIQRGRILPTDGSAEFNVKYRAVVFKPFKGEVVDGTVVSCSQHGFEVQVGPMKVFVTKHLMPQDLTFNAGSNPPSYQSSEDVITIKSRIRVKIEGCISQVSSIHAIGSIKEDYLGAI |
| 2347 | sp|Q9Y2J0|RP3A\_HUMAN | MTDTVFSNSSNRWMYPSDRPLQSNDKEQLQAGWSVHPGGQPDRQRKQEELTDEEKEIINRVIARAEKMEEMEQERIGRLVDRLENMRKNVAGDGVNRCILCGEQLGMLGSACVVCEDCKKNVCTKCGVETNNRLHSVWLCKICIEQREVWKRSGAWFFKGFPKQVLPQPMPIKKTKPQQPVSEPAAPEQPAPEPKHPARAPARGDSEDRRGPGQKTGPDPASAPGRGNYGPPVRRASEARMSSSSRDSESWDHSGGAGDSSRSPAGLRRANSVQASRPAPGSVQSPAPPQPGQPGTPGGSRPGPGPAGRFPDQKPEVAPSDPGTTAPPREERTGGVGGYPAVGAREDRMSHPSGPYSQASAAAPQPAAARQPPPPEEEEEEANSYDSDEATTLGALEFSLLYDQDNSSLQCTIIKAKGLKPMDSNGLADPYVKLHLLPGASKSNKLRTKTLRNTRNPIWNETLVYHGITDEDMQRKTLRISVCDEDKFGHNEFIGETRFSLKKLKPNQRKNFNICLERVIPMKRAGTTGSARGMALYEEEQVERVGDIEERGKILVSLMYSTQQGGLIVGIIRCVHLAAMDANGYSDPFVKLWLKPDMGKKAKHKTQIKKKTLNPEFNEEFFYDIKHSDLAKKSLDISVWDYDIGKSNDYIGGCQLGISAKGERLKHWYECLKNKDKKIERWHQLQNENHVSSD |
| 2348 | sp|Q9Y535|RPC8\_HUMAN | MFVLVEMVDTVRIPPWQFERKLNDSIAEELNKKLANKVVYNVGLCICLFDITKLEDAYVFPGDGASHTKVHFRCVVFHPFLDEILIGKIKGCSPEGVHVSLGFFDDILIPPESLQQPAKFDEAEQVWVWEYETEEGAHDLYMDTGEEIRFRVVDESFVDTSPTGPSSADATTSSEELPKKEAPYTLVGSISEPGLGLLSWWTSN |
| 2349 | sp|Q9Z138|ROR2\_MOUSE | MARGWVRPSRVPLCARAVWTAAALLLWTPWTAGEVEDSEAIDTLGQPDGPDSPLPTLKGYFLNFLEPVNNITIVQGQTAILHCKVAGNPPPNVRWLKNDAPVVQEPRRVIIRKTEYGSRLRIQDLDTTDTGYYQCVATNGLKTITATGVLYVRLGPTHSPNHNFQDDDQEDGFCQPYRGIACARFIGNRTIYVDSLQMQGEIENRITAAFTMIGTSTQLSDQCSQFAIPSFCHFVFPLCDARSRAPKPRELCRDECEVLENDLCRQEYTIARSNPLILMRLQLPKCEALPMPESPDAANCMRIGIPAERLGRYHQCYNGSGADYRGMASTTKSGHQCQPWALQHPHSHRLSSTEFPELGGGHAYCRNPGGQVEGPWCFTQNKNVRVELCDVPPCSPRDGSKMGILYILVPSIAIPLVIACLFFLVCMCRNKQKASASTPQRRQLMASPSQDMEMPLISQHKQAKLKEISLSTVRFMEELGEDRFGKVYKGHLFGPAPGEPTQAVAIKTLKDKAEGPLREEFRQEAMLRARLQHPNIVCLLGVVTKDQPLSMIFSYCSHGDLHEFLVMRSPHSDVGSTDDDRTVKSALEPPDFVHVVAQIAAGMEFLSSHHVVHKDLATRNVLVYDKLNVRISDLGLFREVYSADYYKLMGNSLLPIRWMSPEAVMYGKFSIDSDIWSYGVVLWEVFSYGLQPYCGYSNQDVVEMIRSRQVLPCPDDCPAWVYALMIECWNEFPSRRPRFKDIHSRLRSWGNLSNYNSSAQTSGASNTTQTSSLSTSPVSNVSNARYMAPKQKAQPFPQPQFIPMKGQIRPLVPPAQLYIPVNGYQPVPAYGAYLPNFYPVQIPMQMAPQQVPPQMVPKPSSHHSGSGSTSTGYVTTAPSNTSVADRAALLSEGTEDAQNIAEDVAQSPVQEAEEEEEGSVPETELLGDNDTLQVTEAAHVQLEA |
| 2350 | sp|P22139|RPAB5\_YEAST | MIVPVRCFSCGKVVGDKWESYLNLLQEDELDEGTALSRLGLKRYCCRRMILTHVDLIEKFLRYNPLEKRD |
| 2351 | sp|Q06506|RRP9\_YEAST | MSDVTQQKKRKRSKGEVNPSKPTVDEEITDPSSNEDEQLEVSDEEDALESEEEFEGENPADKRRRLAKQYLENLKSEANDILTDNRNAEEKDLNNLKERTIDEYNNFDAGDLDKDIIASRLKEDVAEQQGRVFRYFGDKLLISEAKQSFTRVGENNLTCISCFQPVLNKYTFEESSNGDKNKGRLFAYTVSKDLQLTKYDITDFSKRPKKLKYAKGGAKYIPTSKHEYENTTEGHYDEILTVAASPDGKYVVTGGRDRKLIVWSTESLSPVKVIPTKDRRGEVLSLAFRKNSDQLYASCADFKIRTYSINQFSQLEILYGHHDIVEDISALAMERCVTVGARDRTAMLWKIPDETRLTFRGGDEPQKLLRRWMKENAKEGEDGEVKYPDESEAPLFFCEGSIDVVSMVDDFHFITGSDNGNICLWSLAKKKPIFTERIAHGILPEPSFNDISGETDEELRKRQLQGKKLLQPFWITSLYAIPYSNVFISGSWSGSLKVWKISDNLRSFELLGELSGAKGVVTKIQVVESGKHGKEKFRILASIAKEHRLGRWIANVSGARNGIYSAVIDQTGF |
| 2352 | sp|P62908|RS3\_MOUSE | MAVQISKKRKFVADGIFKAELNEFLTRELAEDGYSGVEVRVTPTRTEIIILATRTQNVLGEKGRRIRELTAVVQKRFGFPEGSVELYAEKVATRGLCAIAQAESLRYKLLGGLAVRRACYGVLRFIMESGAKGCEVVVSGKLRGQRAKSMKFVDGLMIHSGDPVNYYVDTAVRHVLLRQGVLGIKVKIMLPWDPSGKIGPKKPLPDHVSIVEPKDEILPTTPISEQKGGKPEPPAMPQPVPTA |
| 2353 | sp|P02359|RS7\_ECOLI | MPRRRVIGQRKILPDPKFGSELLAKFVNILMVDGKKSTAESIVYSALETLAQRSGKSELEAFEVALENVRPTVEVKSRRVGGSTYQVPVEVRPVRRNALAMRWIVEAARKRGDKSMALRLANELSDAAENKGTAVKKREDVHRMAEANKAFAHYRWLSLRSFSHQAGASSKQPALGYLN |
| 2354 | sp|P40879|S26A3\_HUMAN | MIEPFGNQYIVARPVYSTNAFEENHKKTGRHHKTFLDHLKVCCSCSPQKAKRIVLSLFPIASWLPAYRLKEWLLSDIVSGISTGIVAVLQGLAFALLVDIPPVYGLYASFFPAIIYLFFGTSRHISVGPFPILSMMVGLAVSGAVSKAVPDRNATTLGLPNNSNNSSLLDDERVRVAAAASVTVLSGIIQLAFGILRIGFVVIYLSESLISGFTTAAAVHVLVSQLKFIFQLTVPSHTDPVSIFKVLYSVFSQIEKTNIADLVTALIVLLVVSIVKEINQRFKDKLPVPIPIEFIMTVIAAGVSYGCDFKNRFKVAVVGDMNPGFQPPITPDVETFQNTVGDCFGIAMVAFAVAFSVASVYSLKYDYPLDGNQELIALGLGNIVCGVFRGFAGSTALSRSAVQESTGGKTQIAGLIGAIIVLIVVLAIGFLLAPLQKSVLAALALGNLKGMLMQFAEIGRLWRKDKYDCLIWIMTFIFTIVLGLGLGLAASVAFQLLTIVFRTQFPKCSTLANIGRTNIYKNKKDYYDMYEPEGVKIFRCPSPIYFANIGFFRRKLIDAVGFSPLRILRKRNKALRKIRKLQKQGLLQVTPKGFICTVDTIKDSDEELDNNQIEVLDQPINTTDLPFHIDWNDDLPLNIEVPKISLHSLILDFSAVSFLDVSSVRGLKSILQEFIRIKVDVYIVGTDDDFIEKLNRYEFFDGEVKSSIFFLTIHDAVLHILMKKDYSTSKFNPSQEKDGKIDFTINTNGGLRNRVYEVPVETKF |
| 2355 | sp|O07623|SBOA\_BACSU | MKKAVIVENKGCATCSIGAACLVDGPIPDFEIAGATGLFGLWG |
| 2356 | sp|Q92911|SC5A5\_HUMAN | MEAVETGERPTFGAWDYGVFALMLLVSTGIGLWVGLARGGQRSAEDFFTGGRRLAALPVGLSLSASFMSAVQVLGVPSEAYRYGLKFLWMCLGQLLNSVLTALLFMPVFYRLGLTSTYEYLEMRFSRAVRLCGTLQYIVATMLYTGIVIYAPALILNQVTGLDIWASLLSTGIICTFYTAVGGMKAVVWTDVFQVVVMLSGFWVVLARGVMLVGGPRQVLTLAQNHSRINLMDFNPDPRSRYTFWTFVVGGTLVWLSMYGVNQAQVQRYVACRTEKQAKLALLINQVGLFLIVSSAACCGIVMFVFYTDCDPLLLGRISAPDQYMPLLVLDIFEDLPGVPGLFLACAYSGTLSTASTSINAMAAVTVEDLIKPRLRSLAPRKLVIISKGLSLIYGSACLTVAALSSLLGGGVLQGSFTVMGVISGPLLGAFILGMFLPACNTPGVLAGLGAGLALSLWVALGATLYPPSEQTMRVLPSSAARCVALSVNASGLLDPALLPANDSSRAPSSGMDASRPALADSFYAISYLYYGALGTLTTVLCGALISCLTGPTKRSTLAPGLLWWDLARQTASVAPKEEVAILDDNLVKGPEELPTGNKKPPGFLPTNEDRLFFLGQKELEGAGSWTPCVGHDGGRDQQETNL |
| 2357 | sp|P97849|S27A1\_RAT | MRTPGAGTASVASLGLLWLLGLPWTWSAAAAFGVYVGSGGWRFLRIVCKTARRDLFGLSVLIRVRLELRRHRRAGDTIPRIFQAVAQRQPERLALVDASSGICWTFAQLDTYSNAVANLFLQLGFAPGDVVAVFLEGRPEFVGLWLGLAKAGVVAALLNVNLRREPLAFCLGTSAAKALIYGGEMAAAVAEVSEQLGKSLLKFCSGDLGPESVLPDTQLLDPMLAEAPTTPLAQAPGKGMDDRLFYIYTSGTTGLPKAAIVVHSRYYRIAAFGHHSYSMRANDVLYDCLPLYHSAGNIMGVGQCIIYGLTVVLRKKFSASRFWDDCVKYNCTVVQYIGEICRYLLRQPVRDVERRHRVRLAVGNGLRPAIWEEFTQGFGVRQIGEFYGATECNCSIANMDGKVGSCGFNSRILTHVYPIRLVKVNEDTMEPLRDSQGLCIPCQPGEPGLLVGQINQQDPLRRFDGYVSDSATNKKIAHSVFRKGDSAYLSGDVLVMDELGYMYFRDRSGDTFRWRGENVSTTEVEAVLSRLLGQTDVAVYGVAVPGVEGKSGMAAIADPHNQLDPNSMYQELQKVLASYAQPIFLRLLPQVDTTGTFKIQKTRLQREGFDPRQTSDRLFFLDLKQGRYLPLDERVHARICAGDFSL |
| 2358 | sp|P28705|RXRG\_MOUSE | MYGNYSHFMKFPTGFGGSPGHTGSTSMSPSVALPTGKPMDSHPSYTDTPVSAPRTLSAVGTPLNALGSPYRVITSAMGPPSGALAAPPGINLVAPPSSQLNVVNSVSSSEDIKPLPGLPGIGNMNYPSTSPGSLVKHICAICGDRSSGKHYGVYSCEGCKGFFKRTIRKDLIYTCRDNKDCLIDKRQRNRCQYCRYQKCLVMGMKREAVQEERQRSRERAESEAECASSSHEDMPVERILEAELAVEPKTESYGDMNVENSTNDPVTNICHAADKQLFTLVEWAKRIPHFSDLTLEDQVILLRAGWNELLIASFSHRSVSVQDGILLATGLHVHRSSAHSAGVGSIFDRVLTELVSKMKDMQMDKSELGCLRAIVLFNPDAKGLSNPSEVETLREKVYATLEAYTKQKYPEQPGRFAKLLLRLPALRSIGLKCLEHLFFFKLIGDTPIDSFLMEMLETPLQIT |
| 2359 | sp|P34925|RYK\_HUMAN | MRGAARLGRPGRSCLPGARGLRAPPPPPLLLLLALLPLLPAPGAAAAPAPRPPELQSASAGPSVSLYLSEDEVRRLIGLDAELYYVRNDLISHYALSFSLLVPSETNFLHFTWHAKSKVEYKLGFQVDNVLAMDMPQVNISVQGEVPRTLSVFRVELSCTGKVDSEVMILMQLNLTVNSSKNFTVLNFKRRKMCYKKLEEVKTSALDKNTSRTIYDPVHAAPTTSTRVFYISVGVCCAVIFLVAIILAVLHLHSMKRIELDDSISASSSSQGLSQPSTQTTQYLRADTPNNATPITSYPTLRIEKNDLRSVTLLEAKGKVKDIAISRERITLKDVLQEGTFGRIFHGILIDEKDPNKEKQAFVKTVKDQASEIQVTMMLTESCKLRGLHHRNLLPITHVCIEEGEKPMVILPYMNWGNLKLFLRQCKLVEANNPQAISQQDLVHMAIQIACGMSYLARREVIHKDLAARNCVIDDTLQVKITDNALSRDLFPMDYHCLGDNENRPVRWMALESLVNNEFSSASDVWAFGVTLWELMTLGQTPYVDIDPFEMAAYLKDGYRIAQPINCPDELFAVMACCWALDPEERPKFQQLVQCLTEFHAALGAYV |
| 2360 | sp|Q6YBV0|S36A4\_HUMAN | MEAAATPAAAGAARREELDMDVMRPLINEQNFDGTSDEEHEQELLPVQKHYQLDDQEGISFVQTLMHLLKGNIGTGLLGLPLAIKNAGIVLGPISLVFIGIISVHCMHILVRCSHFLCLRFKKSTLGYSDTVSFAMEVSPWSCLQKQAAWGRSVVDFFLVITQLGFCSVYIVFLAENVKQVHEGFLESKVFISNSTNSSNPCERRSVDLRIYMLCFLPFIILLVFIRELKNLFVLSFLANVSMAVSLVIIYQYVVRNMPDPHNLPIVAGWKKYPLFFGTAVFAFEGIGVVLPLENQMKESKRFPQALNIGMGIVTTLYVTLATLGYMCFHDEIKGSITLNLPQDVWLYQSVKILYSFGIFVTYSIQFYVPAEIIIPGITSKFHTKWKQICEFGIRSFLVSITCAGAILIPRLDIVISFVGAVSSSTLALILPPLVEILTFSKEHYNIWMVLKNISIAFTGVVGFLLGTYITVEEIIYPTPKVVAGTPQSPFLNLNSTCLTSGLK |
| 2361 | sp|Q5E9P3|S1PR1\_BOVIN | MGSTRIPLVKALHSPVSDYVNYDIIVRHYNYTGKLKISADKDNGIKLISVVFILICCFIILENIFVLLTIWKTKKFHRPMYYFIGNLALSDLLAGVAYTANLLLSGATTYKLTPAQWFLREGSMFVALSASVFSLLAIAIERYITMLKMKLHNGSNRFRSFLLISACWVISLILGGLPIMGWNCISTLPSCSTVLPLYHKHYILFCTTVFTLLLLSIVILYCRIYSLVRTRSRRLTFRKNISKASRSSEKSLALLKTVIIVLGVFIACWAPLFILLLLDVGCKVKTCDILFRTEYFLVLAVLNSGTNPIIYTLSNKEMRRAFVRIMSCCKCPSRDSASKFTRPIIAGMEFSRSKSDNSSHPQKDDGDNPETIMSSGNVNSSS |
| 2362 | sp|Q3UPL0|SC31A\_MOUSE | MKLKEIDRTAMQAWSPAQNHPIYLATGTSAQQLDATFSTNASLEIFELDLSDPSLDMKSCATFSSSHRYHKLIWGPHKMDSKGDVSGVLIAGGENGNIILYDPSKIIAGDKEVVIAQKDKHTGPVRALDVNIFQTNLVASGANESEIYIWDLNNFATPMTPGAKTQPPEDISCIAWNRQVQHILASASPSGRATVWDLRKNEPIIKVSDHSNRMHCSGLAWHPDVATQMVLASEDDRLPVIQMWDLRFASSPLRVLENHARGILAVAWSMADPELLLSCGKDAKILCSNPNTGEVLYELPTNTQWCFDIQWCPRNPAVLSAASFDGRISVYSIMGGSIDGLRQKQVDKLSSSFGNLDPFGTGQPLPPLQIPQQSAQHSIVLPLKKPPKWIRRPVGASFSFGGKLVTFESVAVPLQQGAEQQRRQPVFISQVVTEKDFLNRSAQLQHAVQSQGFIGYCQKKIEASQTEFEKNVWSFLKVNFEEDSRGKYLELLGYRKEDLGQKIALALNKVDGPDVALKDSDQVAQSDGEESPAAEEQLLGERIKEEKQECDFLPSAGGTFNISVSGDIDGLITRALLTGNFESAVDLCLHDNRMADAIILAIAGGQELLAQTQKKYFAKSQSKITRLITAVVMKNWREIVESCDLKNWREALAAVLTYAKPDEFSALCDLLGTRLEREGDSLLRTQACLCYICAGNVERLVACWTKAQDGSSPLSLQDLIEKVVILRKAVQLTQALDTNTVGALLAEKMSQYASLLAAQGSIAAALAFLPDNTNQPNIVQLRDRLCKAQGKPVSGQESSQSPYERQPLSKGRPGPVAGHSQMPRVQTQQYYPHGENPPPPGFIMQGNVIPNPAAPLPTAPGHMPSQLPPYPQPQPYQPAQQYSFGTGGAAAYRPQQPVAPPASNAYPNTPYISPVASYSGQPQMYTAQQASSPTSSSAASFPPPSSGASFQHGGPGAPPSSSAYALPPGTTGTPPAASELPASQRTENQSFQDQASILEGPQNGWNDPPALNRVPKKKKMPENFMPPVPITSPIMNPSGDPQSQGLQQQPSTPGPLSSHASFPQQHLAGGQPFHGVQQPLAQTGMPPSFSKPNTEGAPGAPIGNTIQHVQALPTEKITKKPIPEEHLILKTTFEDLIQRCLSSATDPQTKRKLDDASKRLEFLYDKLREQTLSPTIINGLHSIARSIETRNYSEGLSVHTHIVSTSNFSETSAFMPVLKVVLSQASKLGV |
| 2363 | sp|Q9JHI9|S40A1\_MOUSE | MTKARDQTHQEGCCGSLANYLTSAKFLLYLGHSLSTWGDRMWHFAVSVFLVELYGNSLLLTAVYGLVVAGSVLVLGAIIGDWVDKNARLKVAQTSLVVQNVSVILCGIILMMVFLHKNELLTMYHGWVLTVCYILIITIANIANLASTATAITIQRDWIVVVAGENRSRLADMNATIRRIDQLTNILAPMAVGQIMTFGSPVIGCGFISGWNLVSMCVEYFLLWKVYQKTPALAVKAALKVEESELKQLTSPKDTEPKPLEGTHLMGEKDSNIRELECEQEPTCASQMAEPFRTFRDGWVSYYNQPVFLAGMGLAFLYMTVLGFDCITTGYAYTQGLSGSILSILMGASAITGIMGTVAFTWLRRKCGLVRTGLFSGLAQLSCLILCVISVFMPGSPLDLSVSPFEDIRSRFVNVEPVSPTTKIPETVFTTEMHMSNMSNVHEMSTKPIPIVSVSLLFAGVIAARIGLWSFDLTVTQLLQENVIESERGIINGVQNSMNYLLDLLHFIMVILAPNPEAFGLLVLISVSFVAMGHLMYFRFAQKTLGNQIFVCGPDEKEVTDENQPNTSVV |
| 2364 | sp|Q9Y289|SC5A6\_HUMAN | MSVGVSTSAPLSPTSGTSVGMSTFSIMDYVVFVLLLVLSLAIGLYHACRGWGRHTVGELLMADRKMGCLPVALSLLATFQSAVAILGVPSEIYRFGTQYWFLGCCYFLGLLIPAHIFIPVFYRLHLTSAYEYLELRFNKTVRVCGTVTFIFQMVIYMGVVLYAPSLALNAVTGFDLWLSVLALGIVCTVYTALGGLKAVIWTDVFQTLVMFLGQLAVIIVGSAKVGGLGRVWAVASQHGRISGFELDPDPFVRHTFWTLAFGGVFMMLSLYGVNQAQVQRYLSSRTEKAAVLSCYAVFPFQQVSLCVGCLIGLVMFAYYQEYPMSIQQAQAAPDQFVLYFVMDLLKGLPGLPGLFIACLFSGSLSTISSAFNSLATVTMEDLIRPWFPEFSEARAIMLSRGLAFGYGLLCLGMAYISSQMGPVLQAAISIFGMVGGPLLGLFCLGMFFPCANPPGAVVGLLAGLVMAFWIGIGSIVTSMGSSMPPSPSNGSSFSLPTNLTVATVTTLMPLTTFSKPTGLQRFYSLSYLWYSAHNSTTVIVVGLIVSLLTGRMRGRSLNPATIYPVLPKLLSLLPLSCQKRLHCRSYGQDHLDTGLFPEKPRNGVLGDSRDKEAMALDGTAYQGSSSTCILQETSL |
| 2365 | sp|Q9NZ71|RTEL1\_HUMAN | MPKIVLNGVTVDFPFQPYKCQQEYMTKVLECLQQKVNGILESPTGTGKTLCLLCTTLAWREHLRDGISARKIAERAQGELFPDRALSSWGNAAAAAGDPIACYTDIPKIIYASRTHSQLTQVINELRNTSYRPKVCVLGSREQLCIHPEVKKQESNHLQIHLCRKKVASRSCHFYNNVEEKSLEQELASPILDIEDLVKSGSKHRVCPYYLSRNLKQQADIIFMPYNYLLDAKSRRAHNIDLKGTVVIFDEAHNVEKMCEESASFDLTPHDLASGLDVIDQVLEEQTKAAQQGEPHPEFSADSPSPGLNMELEDIAKLKMILLRLEGAIDAVELPGDDSGVTKPGSYIFELFAEAQITFQTKGCILDSLDQIIQHLAGRAGVFTNTAGLQKLADIIQIVFSVDPSEGSPGSPAGLGALQSYKVHIHPDAGHRRTAQRSDAWSTTAARKRGKVLSYWCFSPGHSMHELVRQGVRSLILTSGTLAPVSSFALEMQIPFPVCLENPHIIDKHQIWVGVVPRGPDGAQLSSAFDRRFSEECLSSLGKALGNIARVVPYGLLIFFPSYPVMEKSLEFWRARDLARKMEALKPLFVEPRSKGSFSETISAYYARVAAPGSTGATFLAVCRGKASEGLDFSDTNGRGVIVTGLPYPPRMDPRVVLKMQFLDEMKGQGGAGGQFLSGQEWYRQQASRAVNQAIGRVIRHRQDYGAVFLCDHRFAFADARAQLPSWVRPHVRVYDNFGHVIRDVAQFFRVAERTMPAPAPRATAPSVRGEDAVSEAKSPGPFFSTRKAKSLDLHVPSLKQRSSGSPAAGDPESSLCVEYEQEPVPARQRPRGLLAALEHSEQRAGSPGEEQAHSCSTLSLLSEKRPAEEPRGGRKKIRLVSHPEEPVAGAQTDRAKLFMVAVKQELSQANFATFTQALQDYKGSDDFAALAACLGPLFAEDPKKHNLLQGFYQFVRPHHKQQFEEVCIQLTGRGCGYRPEHSIPRRQRAQPVLDPTGRTAPDPKLTVSTAAAQQLDPQEHLNQGRPHLSPRPPPTGDPGSQPQWGSGVPRAGKQGQHAVSAYLADARRALGSAGCSQLLAALTAYKQDDDLDKVLAVLAALTTAKPEDFPLLHRFSMFVRPHHKQRFSQTCTDLTGRPYPGMEPPGPQEERLAVPPVLTHRAPQPGPSRSEKTGKTQSKISSFLRQRPAGTVGAGGEDAGPSQSSGPPHGPAASEWGL |
| 2366 | sp|P09661|RU2A\_HUMAN | MVKLTAELIEQAAQYTNAVRDRELDLRGYKIPVIENLGATLDQFDAIDFSDNEIRKLDGFPLLRRLKTLLVNNNRICRIGEGLDQALPCLTELILTNNSLVELGDLDPLASLKSLTYLSILRNPVTNKKHYRLYVIYKVPQVRVLDFQKVKLKERQEAEKMFKGKRGAQLAKDIARRSKTFNPGAGLPTDKKKGGPSPGDVEAIKNAIANASTLAEVERLKGLLQSGQIPGRERRSGPTDDGEEEMEEDTVTNGS |
| 2367 | sp|Q42551|SCE1\_ARATH | MASGIARGRLAEERKSWRKNHPHGFVAKPETGQDGTVNLMVWHCTIPGKAGTDWEGGFFPLTMHFSEDYPSKPPKCKFPQGFFHPNVYPSGTVCLSILNEDYGWRPAITVKQILVGIQDLLDTPNPADPAQTDGYHLFCQDPVEYKKRVKLQSKQYPALV |
| 2368 | sp|Q08775|RUNX2\_MOUSE | MLHSPHKQPQNHKCGANFLQEDCKKALAFKWLISAGHYQPPRPTESVSALTTVHAGIFKAASSIYNRGHKFYLEKKGGTMASNSLFSAVTPCQQSFFWDPSTSRRFSPPSSSLQPGKMSDVSPVVAAQQQQQQQQQQQQQQQQQQQQQQQQQQQQQEAAAAAAAAAAAAAAAAAAVPRLRPPHDNRTMVEIIADHPAELVRTDSPNFLCSVLPSHWRCNKTLPVAFKVVALGEVPDGTVVTVMAGNDENYSAELRNASAVMKNQVARFNDLRFVGRSGRGKSFTLTITVFTNPPQVATYHRAIKVTVDGPREPRRHRQKLDDSKPSLFSDRLSDLGRIPHPSMRVGVPPQNPRPSLNSAPSPFNPQGQSQITDPRQAQSSPPWSYDQSYPSYLSQMTSPSIHSTTPLSSTRGTGLPAITDVPRRISDDDTATSDFCLWPSSLSKKSQAGASELGPFSDPRQFPSISSLTESRFSNPRMHYPATFTYTPPVTSGMSLGMSATTHYHTYLPPPYPGSSQSQSGPFQTSSTPYLYYGTSSASYQFPMVPGGDRSPSRMVPPCTTTSNGSTLLNPNLPNQNDGVDADGSHSSSPTVLNSSGRMDESVWRPY |
| 2369 | sp|Q78IQ7|S39A4\_MOUSE | MLPKSVTQGLVLALLVGTVAVARPRNLLSLLALGQGALDRLELDGLLNTLVARVHCTDGPCEKCLSVENVLALGKPDKPQPAPESVLESRHIIYLSAAAALYLNNPEKTCKDIQAGLLASHVDDYLATLESPEAMTLGLSQLLQKIEAHAASQPTGEKTCVDLPQLLEEAEAAGVSKSAGLVLTALLDHVINGSCFQGLPSPQYFVDFVFRLHSSDPPNITLHELENLMHHLGVGGEDHSDHDDHGDHADHSHPDRKASHQDSELHTPHNSNSSVWDTLCLSAKDIMAVYGLSEEAGVSPQAWAQLTPALVQQQLSGACSPYPTIRIQDQLSQTERYLYGSLATLLICLCAVFGLLLLTCAKCSTATHYIMQTFLSLAVGALTGDALLHLIPKVLGLHTHGGEGHTHEEEVGVGGQATWRLLAVLGGFYIFFLFESFFNLLLPRDQDSEKDGPCSHGGHSHGISLQLAPSNLRQSKQTHESSRSDLVAEETPELLNPETRRLRAELRLLPYLITLGDAVHNFADGLAVGAAFSSSWKTGLATSLAVFCHELPHELGDFAALLHAGLSVKRALLLNLASALTAFAGLYVALAVGVGEEGEAWILAVATGLFLYVALCDMLPAMMNVRDQRPWLLFLLHNVGLLGGWTVLLLLSLYEDNITF |
| 2370 | sp|P58006|SESN1\_MOUSE | MRLAAASNEAYAASLAVSELLSCHQCGGDRGQDEELGIRIPRPLGHGPSRFIPEKEMLQVGSEDAQMHALFADSFAALGRLDNITLVMVFHPQYLESFLKTQHYLLQMDGPLPLHYRHYIGIMAAARHQCSYLVNLHVSDFLHVGGDPKWLNGLENAPQKLQNLGELNKVLAHRPWLITKEHIEGLLKAEEHSWSLAELVHAVVLLTHYHSLASFTFGCGISPEIHCDGGHTFRPPSVSNYCICDITNGNHSVDEMQVNSAGNASVSDSFFEVEALMEKMRQLQECREEEEASQEEMASRFEMEKRESMFVFSSDDDEVTPARDVSRHFEDTSYGYKDFSRHGMHVPTFRVQDYCWEDHGYSLVNRLYPDVGQLIDEKFHIAYNLTYNTMAMHKDVDTSMLRRAIWNYIHCMFGIRYDDYDYGEINQLLDRSFKVYIKTVVCTPEKVTKRMYDSFWRQFKHSEKVHVNLLLIEARMQAELLYALRAITRYMT |
| 2371 | sp|Q96PQ1|SIG12\_HUMAN | MLLLLLLLPPLLCGRVGAKEQKDYLLTMQKSVTVQEGLCVSVLCSFSYPQNGWTASDPVHGYWFRAGDHVSRNIPVATNNPARAVQEETRDRFHLLGDPQNKDCTLSIRDTRESDAGTYVFCVERGNMKWNYKYDQLSVNVTASQDLLSRYRLEVPESVTVQEGLCVSVPCSVLYPHYNWTASSPVYGSWFKEGADIPWDIPVATNTPSGKVQEDTHGRFLLLGDPQTNNCSLSIRDARKGDSGKYYFQVERGSRKWNYIYDKLSVHVTALTHMPTFSIPGTLESGHPRNLTCSVPWACEQGTPPTITWMGASVSSLDPTITRSSMLSLIPQPQDHGTSLTCQVTLPGAGVTMTRAVRLNISYPPQNLTMTVFQGDGTASTTLRNGSALSVLEGQSLHLVCAVDSNPPARLSWTWGSLTLSPSQSSNLGVLELPRVHVKDEGEFTCRAQNPLGSQHISLSLSLQNEYTGKMRPISGVTLGAFGGAGATALVFLYFCIIFVVVRSCRKKSARPAVGVGDTGMEDANAVRGSASQGPLIESPADDSPPHHAPPALATPSPEEGEIQYASLSFHKARPQYPQEQEAIGYEYSEINIPK |
| 2372 | sp|Q9P1W8|SIRPG\_HUMAN | MPVPASWPHPPGPFLLLTLLLGLTEVAGEEELQMIQPEKLLLVTVGKTATLHCTVTSLLPVGPVLWFRGVGPGRELIYNQKEGHFPRVTTVSDLTKRNNMDFSIRISSITPADVGTYYCVKFRKGSPENVEFKSGPGTEMALGAKPSAPVVLGPAARTTPEHTVSFTCESHGFSPRDITLKWFKNGNELSDFQTNVDPTGQSVAYSIRSTARVVLDPWDVRSQVICEVAHVTLQGDPLRGTANLSEAIRVPPTLEVTQQPMRVGNQVNVTCQVRKFYPQSLQLTWSENGNVCQRETASTLTENKDGTYNWTSWFLVNISDQRDDVVLTCQVKHDGQLAVSKRLALEVTVHQKDQSSDATPGPASSLTALLLIAVLLGPIYVPWKQKT |
| 2373 | sp|Q4WR82|SIDC\_ASPFU | MAGTANPADEGLTGPTETTNHINSARSDVALGSSLSGIVPMTKIPALNTIDQFVAEGSPDDLIGQSPWRRIGQGDVSGELATGLIEGYARFVSALTGVEDVAFAVLCQASTRPSQALICASVTLTDQGREVPSAWQCAVRELDFSYYNRSEVQFALDLGLTGGPENRKAGLSTLAENDCLSLYVRGSTDGLCISFTYPRRLIPEAAVSQLLKTITFHITQTTGCLQSTGAWPDDPTPDLSILNFPPLMIPPSRDHDSATMPRHSKSFLLHSAFEGWAQKSPTSIALDFVHSLPSASTVAEHSTLTYAALNAAATYLAIHIRSLLSDNTRNAGSRIIPVYMSTSPELYISYLGILKAGYAFCPIPTDAPPQRVREIFQDIDSSVILGDGEEPSSVSWFLSAAGEATSKPTWVNVAEVSRWKHLSREDTEIATEDRLFEPPDIDHNEIAYLLFTSGSTGKPKGVQVSHLAVTCSIESHATAIPLPGTSAGDFRWFQFASPTFDPSLMEIFVTLSSGGTLCSASRSLTLTDLEGTINEARATVMMATPSLAALLRPAQLTTLQYLWTMGEKLNRTVIENFTQKAHSNDLNGDSVPALRLLVNAYGPTEAAINCTFFAPVEYHTRGSIIGEPLPTCSIFVLDPASHTPKPIPAGLAGELAIGGPQVSQGYLNRPEETANSFVHSPEYGYLYRTGDLARIVWDEKGAQVIEFLGRITSDQVKISGRRVELGEIESVLATLTGVREVVAVVPKRDASVQGSEQIVACIVADSLSEDAAPEFVRLADECAHRHLAAYMCPSSYVFFDSIPRTSSGKVDRNSISSMLQQGKDSGMKFYMPSNDVPEARGMARAEWDPLEDEKALELRTLVLDLVAQTTGQDISVIKPNTSLYTLGLDSLGSMQFLQKLRDKSLHNLSVGDVLQSNTVNGLLTLILNGKTNLRGLTNGQLADDSRMSLAEHLQAFNDTNLSRCAKRLSISPERIQTVLPTTETQSGMLTSFLRTSTDSSFATRSYIYHSVISLEPHVDIERLKKAWESVIASYDSFRTRFCWIDDDMAPFAQCILKEDAASAPMWAINHTFGDSMHEDSLTRALREAENTISLDSPWKLSLLESSGDKVIILSMFHGIFDGGSLQLLLENVSSVYDGQLPAPRTSLEHVVVNHFQANQTATSNFWKEYLNKYSPIAFPSLTAYRPPAVNATGCVEITPRTTHDILKQQSRTIGSTPLSVLQAAWASLLLAYTGTQDHDVVMGSVISGRFDPDSEICIGPTFTTIPTRLALGQIPKAGGFWTNKSVVNHLASLNAKALSHLQPRLGSLVTADSKLPYDTVLAYQDFSAGSSTSSIWKSIDHPPMANDYAVMIEVWPARDSSLTLRASFALSQMDRDGAKVMLHQLDDIIAFILQNPDGDFENALLYTRPDLKASYNPMPKEADEVSDGDLIHTKFENHANSHPDDMALLFKYDLEDDGNLQNISWTYGELNARADNLAAYLCETYDKLTNKVVPICIEKSPAMYIAILGILKAGGAWCPIDTFSPAQRRHDLIKRTGAGVLLVSSEDGEQPKDAIPIGIDVVDVKKYADPLVSWPSVGRWSSKKLSSPAGLAYLIWTSGTTGAPKGVPITHSAAVSCFRSLKKDIPSDVSGGVVRCLQFSQYTFDVSIQDLFYTWSLGGVLISATREIMLGSFAKLANTTRATHAHLTPAFAAGVPRNSCETLEVITMIGEKLTQHVADDWGTDMRAYNTYGPAEVTIVSTVREFGNDCLNIKSANVGWPMESVSVFVTRNKQIVMKNAVGELALGGPQLSPGYLDQEDVTKAKYVWSEEAGQILYYTGDLVRMLADGSLEFMNRVDDLVKIGGIRIELSEISFALGGCHPLVENIETLYIDRPDRPSKVLVAFLSASNATGADAGDDLLLLNDSALQIALSTREKAHTALPAYMVPSVYLVMKRIPRTQSAKTDRRALQAAYASVDIEDWENRMNPENNATGHPTDDLVASDAMEKIVHMIASLINISPSIVAKASRLRSLGIDSIHAIRLASRLKEAGYRLSFIEVINCVTVQDLARLCTSSSEVDALPAAEFDINLFNDQWHDIVASKVDGEFFTVRATPIQESLLSETMGTYNLYWSNHLFSLDKSVDVKRLKQAWLALCQKNEALRTGFIPVAEVNNSSRKDDLDFSILQVLHDHPTLDWEYVMCEDHEWDRLLHSRIEDVMKAHQKTYFKQPPWAVTVLDNGVERFMVLTMHHSIHDGPSLDLIERDLRSAYIDKPPSRYQLRSALSKILPTDEMAAETRRFWSSELQKYSELDAPAWPDLTGKRKPETAVQEHNLISEQMRMTEPLEKLQSISAELGVSSIASLIRAAWGFVSLSYLGVPAAVFAETVSDRILHADLDNGIGPLISVVPVPFDPKGTAREVLAEQQRISTQSRKYRHIHAREVRRMLNRPRGEPLYPAVFAFHPAGAEADGTTNPGLWHELEDRIGLHVEHPMAFNVLQNADSSLVLEVFSDASLMSHEHLSIFVRQVDSLVSAMLANPDKELRELINHLPPSLRSKSSQHVSEAVRNSVTLSPTHWLELNAREHPEWTAVEVASSISASGIEKQSMSYGTLNAAANCVAAFIASVGYKNRMIAVCAGRNLPSYPVIVGVFKSGNTYLPIDNNLPNDRKTFLIEDGNCPLVFTETAFAATFSDVPETCRVLCIDHPSFVDSLAGMPTDNRAYASDPQDNAYLLYTSGSTGKPKGVMVSRANLSAFIESFSEFVCRVAPSTLELGGRGRYLAQASRAFDVHLLEMFFAWRHGMASVTAERTMLLDDLQLTITKWGITHASMVPSLVDQTNLRPELCPELKYLSVGGEKISKRVLDTWAGLPHVALANAYGPTEVTIGCTFALVGKETTIRNIGPPLSACTCHVLIPGTMDYALRGQTGELCFTGDIVGNGYLNRPDATGFVQGPDGEKMYRTGDIGRLMSDDSVEYVGRGDDQTKIRGQRLELGEVSEVIRSSSPVQIGVVTTVTKHPGLARPQLISFIARSGDKSRQRSGDATIIHSDLATLGKELRDACQRKLPAYMVPEIILPITFIPLAPMSGKANIKELHSMFSSLPLASILQGNNPGTSDTAAFTDRPLSSDEEAVVSEICAVIKVERENINPLTNIFEIGLDSLSAISLSVKLRRIGYDATVALVMGNPVVEQLAQLPRKSTEAVADPHSSDLTKRLAELETEYHKGYTRPANSGQVAVRPCLPLQEGLVARSINSEEDQLYVNHIALSFGPGLDSGRLRFAWQDTADNSEILRTCFAPLEKEIVQVVLTPGGAISWTEDEYDSLEDCIKEQRARQQEISRGIIKNMTDVPPVRFHLATLSSKRPLVLFIAIHHALYDGESFSMLLEDVAARYVGEPVTRRGSPAAFIDHVYGQNLEKAQQHWVNALSDCQPTIFRVDTGVVEETTFINRKLHAGLAKLERHSADLHTTVPSLMQALFALLLADRVNSSDVTYGLVLSGRAVAVPDAESVLLPCITTIPARLNTSGLKTVSDVVRSVHQSTARSLEYQHTSLRHIQRWLKSEKPLFDCLFSYIRSTPAPKNTLWGQLESTMPSEYPLAVEIEANSEKDEMYVHCGFSPSFGSADRGQEFLEKLDALLSAFLFEDDIALDSFSLANSGNPGSRATEVKWDATTWSATETKIRDLTATFCGLDVVNVSKGTSFISLGIDSVTAIQFARKLRELQFEIVPSDIMRFPCVGALAEHVDERSSEGRQSARVGDKKPRVSLAAHRDNVPLLDDGDSVAAIFESTPLQAGMITRTLGSDTQVYVHPHIVRLTEGVDIDRLSKAISEVVAKNDILRTSFHPIAENGVTWVGAVHTNPPLQWKEITLPSNADVIAELTSLYSFREVADFETPPVRFVLVHRKNEKLFVVIMHHALYDGVSLPLLFEELAATYHGQTTVGRPQFSEIAHYIVEGQNDSCDFWTKKLAGYEPVEIPALSSSEATERMLLSERKIGLDVEKVVESCKSMEVTVQSVALLAYAKVLACLGGKRDVVFGQVLAGRSLPVPGADQTIGPLFNTVAQRVLFEPKFLSNREMAQRVQQLTSESQAFQHAPLKDVQRALRQEHGMNAASLFDTLFVFQKSADLTTDTPHEQQIWTPFETEGYAAQAEHKLNVEIDHGREAIIVSGSGDGRYICQQALDEFMADFCTAFQDIIEHPSRCATAAPERLGGLPLRLSNAEEPERGHSESDAPAHESIIRDVLAEVSGVSVDSITPSTSIYNIGLDSLSAIRIASICRSRGLKAGVADVLQGNTLRGISARIISPVEAPIQAREPLIKDHEAIEKAVLQRLGLNKDEVETILPCLSGQLYHLVSWLKSGRTLFEPAWSYYSIERIDSGKLEEAWNQLRQRHHILRTCFVATSPSMAVQAVLKDAPQNAEIFKVIESPACIEEAAKAQAREEGLNPSSLFVPPVRLRLLKASDKDGIQIFINHAAYDAWTMPMFVSELAHLYREQPVESTPDFPSFVEYATRSLREVDEQTYWSSQVGSSLPTLIKPTNQGLPKQFFVGVWEKVQNLSQLERACRSACLSLQSVVLLAVSRSLARTTGVQSPTIGLYQTGRSASFSNIENLSGPCLNVTPFTFPSPGAKAESNALDEVQAIQNSLAERVLYEQSCLRDILTNWASTKGKGPLFNTWVNLLWMHQPSTRGDSKSHTDLDLFQPLRIGVPTDFIPATPLPDPSGETTSISALDTSYLPDENLYIDIGPDYSTDTIGFGVRVEGGLLTEKEVRGMVDDVSGEIEGIMAAIQQGKSR |
| 2374 | sp|Q9VZ09|SISA\_DROME | MERSHLYLPTLSYAAMGHVYAPYRGSSSPALSTASSTSSKPEQIEELVSQQLHHLKMHYADEEQRYVDQMLLENPIVVERRAPPPLKTELAMDCRGSGSGSGSGSGSDVKDAQRQRAESCRKSRYNNKIKKAKLRFRHKFVSGQLKKSAVMLDTMRDVIAQAERQLLERGYPAATLERMRATFGLEMEQ |
| 2375 | sp|Q9R0C9|SGMR1\_RAT | MPWAVGRRWAWITLFLTIVAVLIQAVWLWLGTQSFVFQREEIAQLARQYAGLDHELAFSRLIVELRRLHPGHVLPDEELQWVFVNAGGWMGAMCLLHASLSEYVLLFGTALGSHGHSGRYWAEISDTIISGTFHQWREGTTKSEVYYPGETVVHGPGEATAVEWGPNTWMVEYGRGVIPSTLAFALSDTIFSTQDFLTLFYTLRAYARGLRLELTTYLFGQDP |
| 2376 | sp|Q9BX95|SGPP1\_HUMAN | MSLRQRLAQLVGRLQDPQKVARFQRLCGVEAPPRRSADRREDEKAEAPLAGDPRLRGRQPGAPGGPQPPGSDRNQCPAKPDGGGAPNGVRNGLAAELGPASPRRAGALRRNSLTGEEGQLARVSNWPLYCLFCFGTELGNELFYILFFPFWIWNLDPLVGRRLVVIWVLVMYLGQCTKDIIRWPRPASPPVVKLEVFYNSEYSMPSTHAMSGTAIPISMVLLTYGRWQYPLIYGLILIPCWCSLVCLSRIYMGMHSILDIIAGFLYTILILAVFYPFVDLIDNFNQTHKYAPFIIIGLHLALGIFSFTLDTWSTSRGDTAEILGSGAGIACGSHVTYNMGLVLDPSLDTLPLAGPPITVTLFGKAILRILIGMVFVLIIRDVMKKITIPLACKIFNIPCDDIRKARQHMEVELPYRYITYGMVGFSITFFVPYIFFFIGIS |
| 2377 | sp|Q96RL6|SIG11\_HUMAN | MVPGQAQPQSPEMLLLPLLLPVLGAGSLNKDPSYSLQVQRQVPVPEGLCVIVSCNLSYPRDGWDESTAAYGYWFKGRTSPKTGAPVATNNQSREVEMSTRDRFQLTGDPGKGSCSLVIRDAQREDEAWYFFRVERGSRVRHSFLSNAFFLKVTALTKKPDVYIPETLEPGQPVTVICVFNWAFKKCPAPSFSWTGAALSPRRTRPSTSHFSVLSFTPSPQDHDTDLTCHVDFSRKGVSAQRTVRLRVAYAPKDLIISISHDNTSALELQGNVIYLEVQKGQFLRLLCAADSQPPATLSWVLQDRVLSSSHPWGPRTLGLELRGVRAGDSGRYTCRAENRLGSQQQALDLSVQYPPENLRVMVSQANRTVLENLGNGTSLPVLEGQSLRLVCVTHSSPPARLSWTRWGQTVGPSQPSDPGVLELPPIQMEHEGEFTCHAQHPLGSQHVSLSLSVHYPPQLLGPSCSWEAEGLHCSCSSQASPAPSLRWWLGEELLEGNSSQGSFEVTPSSAGPWANSSLSLHGGLSSGLRLRCKAWNVHGAQSGSVFQLLPGKLEHGGGLGLGAALGAGVAALLAFCSCLVVFRVKICRKEARKRAAAEQDVPSTLGPISQGHQHECSAGSSQDHPPPGAATYTPGKGEEQELHYASLSFQGLRLWEPADQEAPSTTEYSEIKIHTGQPLRGPGFGLQLEREMSGMVPK |
| 2378 | sp|Q9Y274|SIA10\_HUMAN | MRGYLVAIFLSAVFLYYVLHCILWGTNVYWVAPVEMKRRNKIQPCLSKPAFASLLRFHQFHPFLCAADFRKIASLYGSDKFDLPYGMRTSAEYFRLALSKLQSCDLFDEFDNIPCKKCVVVGNGGVLKNKTLGEKIDSYDVIIRMNNGPVLGHEEEVGRRTTFRLFYPESVFSDPIHNDPNTTVILTAFKPHDLRWLLELLMGDKINTNGFWKKPALNLIYKPYQIRILDPFIIRTAAYELLHFPKVFPKNQKPKHPTTGIIAITLAFYICHEVHLAGFKYNFSDLKSPLHYYGNATMSLMNKNAYHNVTAEQLFLKDIIEKNLVINLTQD |
| 2379 | sp|Q9VSL3|SEPIA\_DROME | MSNGRHLAKGSPMPDVPEDGILRLYSMRFCPFAQRVHLVLDAKQIPYHSIYINLTDKPEWLLEKNPQGKVPALEIVREPGPPVLTESLLICEYLDEQYPLRPLYPRDPLKKVQDKLLIERFRAVLGAFFKASDGGDLEPFWSGLDIYERELARRGTEFFGGEQTGILDYMIWPWCERLELLKLQRGEDYNYDQSRFPQLTLWLERMKRDPAVMAFYMEAEVQAEFLRTRSLGRPNYNLLVKDA |
| 2380 | sp|Q8C1B7|SEP11\_MOUSE | MAVAVGRPSNEELRNLSLSGHVGFDSLPDQLVNKSTSQGFCFNILCVGETGIGKSTLMDTLFNTKFESDPATHNEPGVRLKARSYELQESNVRLKLTIVDTVGFGDQINKDDSYKPIVEYIDAQFEAYLQEELKIKRSLFNYHDTRIHACLYFIAPTGHSLKSLDLVTMKKLDSKVNIIPIIAKADTIAKNELHKFKSKIMSELVSNGVQIYQFPTDEETVAEINATMSVHLPFAVVGSTEEVKIGNKMAKARQYPWGVVQVENENHCDFVKLREMLIRVNMEDLREQTHTRHYELYRRCKLEEMGFKDTDPDSKPFSLQETYEAKRNEFLGELQKKEEEMRQMFVMRVKEKEAELKEAEKELHEKFDLLKRTHQEEKKKVEDKKKELEEEVSNFQKKKAAAQLLQSQAQQSGAQQTKKDKDKKNPWLCTE |
| 2381 | sp|P27615|SCRB2\_RAT | MARCCFYTAGTLSLLLLVTSVTLLVARVFQKAVDQTIEKNMVLQNGTKVFDSWEKPPLPVYIQFYFFNVTNPEEILQGEIPLLEEVGPYTYRELRNKANVQFGENGTTISAVTNKAYIFERNQSVGDPTVDLIRTINIPLLTVVEMAQQPFLREIIEAMLKAYQQTLFVTHTVHELLWGYKDEVLSLVHIFRPDVSPNFGLFYERNGTNDGEYVFLTGEDNYLNFTKIVEWNGKTSLDWWTTDTCNMINGTDGDSFHPLISKDETLYIFPSDFCRSVYITFSSFENVEGLPAFRYKVPAEILANSSENAGFCIPEGNCMDAGVLNVSICKNGAPIIMSFPHFYQADEKFVSAIKGMRPNKEEHESFVDINPLTGIILRGAKRFQINTYVKKLDDFVETGNIRTMVFPVMYLNESVLIDKETASQLKSVINTTLIVTNIPYIIMALGVFFGLIFTWLACRGQGSTDEGTADERAPLIRT |
| 2382 | sp|Q13435|SF3B2\_HUMAN | MATEHPEPPKAELQLPPPPPPGHYGAWAAQELQAKLAEIGAPIQGNREELVERLQSYTRQTGIVLNRPVLRGEDGDKAAPPPMSAQLPGIPMPPPPLGLPPLQPPPPPPPPPPGLGLGFPMAHPPNLGPPPPLRVGEPVALSEEERLKLAQQQAALLMQQEERAKQQGDHSLKEHELLEQQKRAAVLLEQERQQEIAKMGTPVPRPPQDMGQIGVRTPLGPRVAAPVGPVGPTPTVLPMGAPVPRPRGPPPPPGDENREMDDPSVGPKIPQALEKILQLKESRQEEMNSQQEEEEMETDARSSLGQSASETEEDTVSVSKKEKNRKRRNRKKKKKPQRVRGVSSESSGDREKDSTRSRGSDSPAADVEIEYVTEEPEIYEPNFIFFKRIFEAFKLTDDVKKEKEKEPEKLDKLENSAAPKKKGFEEEHKDSDDDSSDDEQEKKPEAPKLSKKKLRRMNRFTVAELKQLVARPDVVEMHDVTAQDPKLLVHLKATRNSVPVPRHWCFKRKYLQGKRGIEKPPFELPDFIKRTGIQEMREALQEKEEQKTMKSKMREKVRPKMGKIDIDYQKLHDAFFKWQTKPKLTIHGDLYYEGKEFETRLKEKKPGDLSDELRISLGMPVGPNAHKVPPPWLIAMQRYGPPPSYPNLKIPGLNSPIPESCSFGYHAGGWGKPPVDETGKPLYGDVFGTNAAEFQTKTEEEEIDRTPWGELEPSDEESSEEEEEEESDEDKPDETGFITPADSGLITPGGFSSVPAGMETPELIELRKKKIEEAMDGSETPQLFTVLPEKRTATVGGAMMGSTHIYDMSTVMSRKGPAPELQGVEVALAPEELELDPMAMTQKYEEHVREQQAQVEKEDFSDMVAEHAAKQKQKKRKAQPQDSRGGSKKYKEFKF |
| 2383 | sp|Q9M8Y0|SEC\_ARATH | MISSKNGAAMISRPVFLSDRVDEVFSRKLDLSVSSSSSSSLLQQFNKTHEGDDDARLALAHQLYKGGDFKQALEHSNMVYQRNPLRTDNLLLIGAIYYQLQEYDMCIARNEEALRIQPQFAECYGNMANAWKEKGDTDRAIRYYLIAIELRPNFADAWSNLASAYMRKGRLSEATQCCQQALSLNPLLVDAHSNLGNLMKAQGLIHEAYSCYLEAVRIQPTFAIAWSNLAGLFMESGDLNRALQYYKEAVKLKPAFPDAYLNLGNVYKALGRPTEAIMCYQHALQMRPNSAMAFGNIASIYYEQGQLDLAIRHYKQALSRDPRFLEAYNNLGNALKDIGRVDEAVRCYNQCLALQPNHPQAMANLGNIYMEWNMMGPASSLFKATLAVTTGLSAPFNNLAIIYKQQGNYSDAISCYNEVLRIDPLAADALVNRGNTYKEIGRVTEAIQDYMHAINFRPTMAEAHANLASAYKDSGHVEAAITSYKQALLLRPDFPEATCNLLHTLQCVCCWEDRSKMFAEVESIIRRQINMSVLPSVQPFHAIAYPIDPILALEISRKYAAHCSIIASRFGLPPFTHPAGLPVKREGGFKRLRIGYVSSDFGNHPLSHLMGSVFGMHNRENVEVFCYALSANDNTEWRQRIQSEAEHFLDVSAMSSDAIAKIINQDKIQILINLNGYTKGARNEIFAMQPAPIQVSYMGFPGTTGATYIDYLVTDEFVSPLQYAHIYSEKLVHLPHCYFVNDYKQKNQDVLDPNSKPKRSDYGLPEDKFIFACFNQLYKMDPEIVNTWCNILKRVPNSALWLLRFPAAGEMRFRTYAAAQGVQPDQIIFTDVAMKSEHIRRSVLADVILDTPLCNGHTTGTDVLWAGVPMITLPLEKMATRVAGSLCLATGLGHGMIVNSLEEYEEKAVSLALNKPKLQALTKELRASRLTCPLFDTMRWVKNLERSYFKMWNLHCSGQQPQHFKVLENDLEFPHDR |
| 2384 | sp|Q4F883|SG101\_ARATH | MESSSSLKGSALGKLVVTSGLLHSSWSKILEIHNPPYSNHDPGLQVSKKKKDSGLEFQIHREEKFTLVVFSAPPICRSSSSDSTLLHVKDKENPFPFLCSENNPSFSLHTPAFNLFTSASTSLTYLKSELLQTLKSEKPVIITGAALGGSVASLYTLWLLETIEPTLKRPLCITFGSPLIGDASLQQILENSVRNSCFLHVVSAQTRIKMDFFKPFGTFLICFDSGCVCIEDHVAVTELLNGVHDSGLVDYSQVLNRLDQSMLSLADSRLIPEDVIKGIEKRAEMKNLRFDMMFKKLNDMKISMAYIEWYKKKCKEVKIGYYDRFKTQLAFPSKEFDINIKNHHKSELNRFWKSVVEEVERRPQSDASILKRRFLFSGNNYRRMIEPLDIAEYYLEGRKEYRTTGRSHHYVMLEKWFGMESILIEKERCKKRDLSDLLTFDSCFWAEVEDSLIVINQLNTTVGMRDDVREVLTRKLVEFEGYVWEIITKREVSPEIFLEESSFMKWWKEYKKIKGFNSSYLTEFMNTRKYESYGKSQ |
| 2385 | sp|P53011|SEH1\_YEAST | MQPFDSGHDDLVHDVVYDFYGRHVATCSSDQHIKVFKLDKDTSNWELSDSWRAHDSSIVAIDWASPEYGRIIASASYDKTVKLWEEDPDQEECSGRRWNKLCTLNDSKGSLYSVKFAPAHLGLKLACLGNDGILRLYDALEPSDLRSWTLTSEMKVLSIPPANHLQSDFCLSWCPSRFSPEKLAVSALEQAIIYQRGKDGKLHVAAKLPGHKSLIRSISWAPSIGRWYQLIATGCKDGRIRIFKITEKLSPLASEESLTNSNMFDNSADVDMDAQGRSDSNTEEKAELQSNLQVELLSEHDDHNGEVWSVSWNLTGTILSSAGDDGKVRLWKATYSNEFKCMSVITAQQ |
| 2386 | sp|Q03529|SCS7\_YEAST | MSTNTSKTLELFSKKTVQEHNTANDCWVTYQNRKIYDVTRFLSEHPGGDESILDYAGKDITEIMKDSDVHEHSDSAYEILEDEYLIGYLATDEEAARLLTNKNHKVEVQLSADGTEFDSTTFVKELPAEEKLSIATDYSNDYKKHKFLDLNRPLLMQILRSDFKKDFYVDQIHRPRHYGKGSAPLFGNFLEPLTKTAWWVVPVAWLPVVVYHMGVALKNMNQLFACFLFCVGVFVWTLIEYGLHRFLFHFDDWLPESNIAFATHFLLHGCHHYLPMDKYRLVMPPTLFVILCAPFYKLVFALLPLYWAYAGFAGGLFGYVCYDECHFFLHHSKLPPFMRKLKKYHLEHHYKNYQLGFGVTSWFWDEVFGTYLGPDAPLSKMKYE |
| 2387 | sp|Q9HC62|SENP2\_HUMAN | MYRWLVRILGTIFRFCDRSVPPARALLKRRRSDSTLFSTVDTDEIPAKRPRLDCFIHQVKNSLYNAASLFGFPFQLTTKPMVTSACNGTRNVAPSGEVFSNSSSCELTGSGSWNNMLKLGNKSPNGISDYPKIRVTVTRDQPRRVLPSFGFTLNSEGCNRRPGGRRHSKGNPESSLMWKPQEQAVTEMISEESGKGLRRPHCTVEEGVQKEEREKYRKLLERLKESGHGNSVCPVTSNYHSSQRSQMDTLKTKGWGEEQNHGVKTTQFVPKQYRLVETRGPLCSLRSEKRCSKGKITDTETMVGIRFENESRRGYQLEPDLSEEVSARLRLGSGSNGLLRRKVSIIETKEKNCSGKERDRRTDDLLELTEDMEKEISNALGHGPQDEILSSAFKLRITRGDIQTLKNYHWLNDEVINFYMNLLVERNKKQGYPALHVFSTFFYPKLKSGGYQAVKRWTKGVNLFEQEIILVPIHRKVHWSLVVIDLRKKCLKYLDSMGQKGHRICEILLQYLQDESKTKRNSDLNLLEWTHHSMKPHEIPQQLNGSDCGMFTCKYADYISRDKPITFTQHQMPLFRKKMVWEILHQQLL |
| 2388 | sp|A8K8P3|SFI1\_HUMAN | MKNLLTEKCISSHNFHQKVIKQRMEKKVDSRYFKDGAVKKPYSAKTLSNKKSSASFGIRRELPSTSHLVQYRGTHTCTRQGRLRELRIRCVARKFLYLWIRMTFGRVFPSKARFYYEQRLLRKVFEEWKEEWWVFQHEWKLCVRADCHYRYYLYNLMFQTWKTYVRQQQEMRNKYIRAEVHDAKQKMRQAWKSWLIYVVVRRTKLQMQTTALEFRQRIILRVWWSTWRQRLGQVRVSRALHASALKHRALSLQVQAWSQWREQLLYVQKEKQKVVSAVKHHQHWQKRRFLKAWLEYLQVRRVKRQQNEMAERFHHVTVLQIYFCDWQQAWERRESLYAHHAQVEKLARKMALRRAFTHWKHYMLLCAEEAAQFEMAEEHHRHSQLYFCFRALKDNVTHAHLQQIRRNLAHQQHGVTLLHRFWNLWRSQIEQKKERELLPLLHAAWDHYRIALLCKCIELWLQYTQKRRYKQLLQARADGHFQQRALPAAFHTWNRLWRWRHQENVLSARATRFHRETLEKQVFSLWRQKMFQHRENRLAERMAILHAERQLLYRSWFMWHQQAAARHQEQEWQTVACAHHRHGRLKKAFCLWRESAQGLRTERTGRVRAAEFHMAQLLRWAWSQWRECLALRGAERQKLMRADLHHQHSVLHRALQAWVTYQGRVRSILREVAARESQHNRQLLRGALRRWKENTMARVDEAKKTFQASTHYRRTICSKVLVQWREAVSVQMYYRQQEDCAIWEAQKVLDRGCLRTWFQRWWDCSRRSAQQRLQLERAVQHHHRQLLLEGLARWKTHHLQCVRKRLLHRQSTQLLAQRLSRTCFRQWRQQLAARRQEQRATVRALWFWAFSLQAKVWATWLAFVLERRRKKARLQWALQAYQGQLLQEGATRLLRFAASMKASRQQLQAQQQVQAAHSLHRAVRRCATLWKQKVLGRGGKPQPLAAIAPSRKVTFEGPLLNRIAAGAGDGTLETKRPQASRPLGALGRLAAEEPHALELNTAHSARKQPRRPHFLLEPAQSQRPQKPQEHGLGMAQPAAPSLTRPFLAEAPTALVPHSPLPGALSSAPGPKQPPTASTGPELLLLPLSSFMPCGAAAPARVSAQRATPRDKPPVPSSLASVPDPHLLLPGDFSATRAGPGLSTAGSLDLEAELEEIQQQLLHYQTTKQNLWSCRRQASSLRRWLELNREEPGPEDQEVEQQVQKELEQVEMQIQLLAEELQAQRQPIGACVARIQALRQALC |
| 2389 | sp|Q5ZTK4|SDEA\_LEGPH | MPKYVEGVELTQEGMHAIFARMGYGDITSGSIYNGVPTIDTGALNRQGFMPVLTGVGPHRDSGHWIMLIKGPGNQYYLFDPLGKTSGEGYQNILAAQLPMGSTLSVIPNGSGLNMGLCGYWVASAGLRAHQALNQHNPPTLLNVGQTITNEMRNELDHDGYRKITGWLRAVADEFPEGDPQLDGKALRENTEKDLKIEIPTLVLPGKDTSPKEMSVKPTAPQDKSVPVWNGFSLYTDDTVKAAAQYAYDNYLGKPYTGSVESAPANFGGRMVYRQHHGLSHTLRTMAYAELIVEEARKAKLRGETLGKFKDGRTIADVTPQELKKIMIAQAFFVAGRDDEASDAKNYQKYHEQSRDAFLKYVKDNESTLIPDVFKDQEDVNFYARVIEDKSHDWESTPAHVLINQGHMVDLVRVKQPPESFLQRYFSSMQRWIGSQATEAVFGIQRQFFHATYEVVAGFDSDNKEPHLVVSGLGRYVIGEDGQPIREAPKKGQKEGDLKVFPQTYKLKENERLMRVDEFLKLPEIQNTFPGSGKHLQGGMPGMNEMDYWNRLNSLNRARCENDVDFCLKQLQTAHDKAKIEPIKQAFQSSKGKERRQPNVDEIAAARIIQQILANPDCIHDDHVLINGQKLEQQFFRDLLAKCEMAVVGSLLNDTDIGNIDTLMRHEKDTEFHSTNPEAVPVKIGEYWINDQRINNSSGNITQKKHDLIFLMQNDAWYFSRVNAIAQNRDKGSTFKEVLITTLMTPLTSKALVDTSQAKPPTRLFRGLNLSEEFTKGLIDQANAMIANTTERLFTDHSPEAFKQIKLNDLSKMSGRTNASTTTEIKLVKETWDSNVIFEMLDPDGLLHSKQVGRHGEGTESEFSVYLPEDVALVPVKVTLDGKTQKGENRYVFTFVAVKSPDFTPRHESGYAVEPFLRMQAAKLAEVKSSIEKAQRAPDLETIFNLQNEVEAVQYSHLSTGYKNFLKNTVGPVLENSLSGLMESDTDTLSKALAAFPSDTQWSAFNFEEARQAKRQMDAIKQMVGNKVVLDALTQCQDALEKQNIAGALDALKKIPSEKEMGTIRRELREQIQSARQELESLQRAVVTPVVTDEKKVRERYDALIENTSKKITELETGKLPNLDAVKKGISNLSNLKQEVTVLRNEKIRMHVGTDKVDFSDVEKLEQQIQVIDTKLADAYLLEVTKQISALDNTKPKNQTELKTKIAAFLDRTTDIEMLRNERIKKHGSSKDPLDLSDLDKLSGSLQRINQSLVSDLITTIRVSINQMEAKTFHEQEKEIQQNFELLAKLEKTLDKSKTSEKLREDIPKLNDLLVAKQKAYPQMVQMQLKSEVFVTQLREVCQANHDDLDKTRNARLRELDRLDREAGITRMVGNLIWGLTNKVGLTTDERLDIRTKQQSLARFKNELFNDKIDTDQLISNLARKRPSELQEGLGISTDNAMELHLLLTELAGKTTSPDELEERMKAIDDISTKIGREPEHLKFVMVEEDESNKKTIGF |
| 2390 | sp|Q8WV41|SNX33\_HUMAN | MALKGRALYDFHSENKEEISIQQDEDLVIFSETSLDGWLQGQNSRGETGLFPASYVEIVRSGISTNHADYSSSPAGSPGAQVSLYNSPSVASPARSGGGSGFLSNQGSFEEDDDDDWDDWDDGCTVVEEPRAGGLGTNGHPPLNLSYPGAYPSQHMAFRPKPPLERQDSLASAKRGSVVGRNLNRFSCFVRSGVEAFILGDVPMMAKIAETYSIEMGPRGPQWKANPHPFACSVEDPTKQTKFKGIKSYISYKLTPTHAASPVYRRYKHFDWLYNRLLHKFTVISVPHLPEKQATGRFEEDFIEKRKRRLILWMDHMTSHPVLSQYEGFQHFLSCLDDKQWKMGKRRAEKDEMVGASFLLTFQIPTEHQDLQDVEDRVDTFKAFSKKMDDSVLQLSTVASELVRKHVGGFRKEFQKLGSAFQAISHSFQMDPPFCSEALNSAISHTGRTYEAIGEMFAEQPKNDLFQMLDTLSLYQGLLSNFPDIIHLQKGAFAKVKESQRMSDEGRMVQDEADGIRRRCRVVGFALQAEMNHFHQRRELDFKHMMQNYLRQQILFYQRVGQQLEKTLRMYDNL |
| 2391 | sp|Q7M730|SCN4B\_RAT | MSRAGNRGNTQARWLGIGLLGLFLLPMYLSLEVSVGKATTIYAINGSAILLPCTFSSCYGFENLYFRWSYNNSETSRILIDGIVKNDKSDPKVRVKDDDRITLEGSTKEKMNNISILLSDLEFSDTGRYTCFVRNPKEKDLNNSATIFLQVVDKLEEVDNTVTLIILAVVGGVIGLLVCILLLKKLITFILKKTREKKKECLVSSSGNDNTENGLPGSKAEEKPPTKV |
| 2392 | sp|Q1JQA2|SMAD1\_BOVIN | MNVTSLFSFTSPAVKRLLGWKQGDEEEKWAEKAVDALVKKLKKKKGAMEELEKALSCPGQPSNCVTIPRSLDGRLQVSHRKGLPHVIYCRVWRWPDLQSHHELKPLECCEFPFGSKQKEVCINPYHYKRVESPVLPPVLVPRHSEYNPQHSLLAQFRNLGQNEPHMPLNATFPDSFQQPNSHPFPHSPNSSYPNSPGSSSSTYPHSPTSSDPGSPFQMPADTPPPAYLPPEDPMTQDGSQPMDTNMMAPSLPSEINRGDVQAVAYEEPKHWCSIVYYELNNRVGEAFHASSTSVLVDGFTDPSNNKNRFCLGLLSNVNRNSTIENTRRHIGKGVHLYYVGGEVYAECLSDSSIFVQSRNCNYHHGFHPTTVCKIPSGCSLKIFNNQEFAQLLAQSVNHGFETVYELTKMCTIRMSFVKGWGAEYHRQDVTSTPCWIEIHLHGPLQWLDKVLTQMGSPHNPISSVS |
| 2393 | sp|Q8CG48|SMC2\_MOUSE | MYVKSIILEGFKSYAQRTEVNGFDPLFNAITGLNGSGKSNILDSICFLLGISNLSQVRASNLQDLVYKNGQAGITKASVSITFDNSDKKQSPLGFEAHDEITVTRQVVIGGRNKYLINGVNANNTRVQDLFCSVGLNVNNPHFLIMQGRITKVLNMKPPEILSMIEEAAGTRMYEYKKIAAQKTIEKKEAKLKEIKTILEEEITPTIQKLKEERSSYLEYQKVMREIEHLSRLYIAYQFLRAEDTKERSAGELKEMQDKIVNLQEVLSENEKKIKALNCEIEELERRKDKETGGKLKSLEDACAEAQRVNTKSQSAFDLKKKNLASEETKRKELQNSMAEDSKALAAKEKEVKKITDGLHGLQEASNKDAEALAAAQQHFNAVSAGLSSNEDGAEATLAGQMIACKNDISKAQTEAKQAQMKLKHAQQELKSKQAEVKKMDSGYKKDQDAFEAVKKAKEKLETEMKKLNYEENKEEKLLEKHRQLSRDINNLKGKHEALLAKFPNLQFAYKDPEKNWNRNSVKGLVASLINVKDNSTATALEVVAGERLYNVVVDTEVTAKKLLEKGELKRRYTIIPLNKISARCIAPETLRVAQNLVGPDNVHVALSLVDYKPELQKGMEFVFGTTFVCNNMDNAKKVAFDKRIMTRTVTLGGDVFDPHGTLSGGARSQAASILTKFQEVKDVQDELRTKENELRALEEELAGLKNVAEKYRQLKQQWEMKTEEGDLLQTKLQQSSYHKQQEELDALKKTIEESEETLKSTKEIQKKAEEKYEALENKMKNAEAEREKELKDAQKKLDCAKTKADASSKKMKEKQQEVEAITLELEELKREHASNEQQLDAVNEAIKAYEGQIEKMAAEVAKNKESVNKAQDELMKQKQIITAQDNIIKDKCAEVAKHNLQNNESQLKIKELDHSISKHKREADDAAAKVSKMLSDYDWINAEKHLFGQPNSAYDFKTNNPKEAGQRLQKLQEVKEKLGRNVNLRAMNVLTEAEERYNDLMKKKRIVENDKSKILATIEDLDQKKNQALNIAWQKVNKDFGSIFSTLLPGANAMLAPPEGQTVLDGLEFKVALGNTWKENLTELSGGQRSLVALSLILSMLLFKPAPIYILDEVDAALDLSHTQNIGQMLRTHFTHSQFIVVSLKEGMFNNANVLFKTKFVDGVSTVARFTQSQAGKIPKEAKSRGKEPN |
| 2394 | sp|P48595|SPB10\_HUMAN | MDSLATSINQFALELSKKLAESAQGKNIFFSSWSISTSLTIVYLGAKGTTAAQMAQVLQFNRDQGVKCDPESEKKRKMEFNLSNSEEIHSDFQTLISEILKPNDDYLLKTANAIYGEKTYAFHNKYLEDMKTYFGAEPQPVNFVEASDQIRKDINSWVERQTEGKIQNLLPDDSVDSTTRMILVNALYFKGIWEHQFLVQNTTEKPFRINETTSKPVQMMFMKKKLHIFHIEKPKAVGLQLYYKSRDLSLLILLPEDINGLEQLEKAITYEKLNEWTSADMMELYEVQLHLPKFKLEDSYDLKSTLSSMGMSDAFSQSKADFSGMSSARNLFLSNVFHKAFVEINEQGTEAAAGSGSEIDIRIRVPSIEFNANHPFLFFIRHNKTNTILFYGRLCSP |
| 2395 | sp|Q12749|SMC6\_YEAST | MISTTISGKRPIEQVDDELLSLTAQQENEEQQQQRKRRRHQFAPMTQFNSNTLDEDSGFRSSSDVATADQDNFLEESPSGYIKKVILRNFMCHEHFELELGSRLNFIVGNNGSGKSAILTAITIGLGAKASETNRGSSLKDLIREGCYSAKIILHLDNSKYGAYQQGIFGNEIIVERIIKRDGPASFSLRSENGKEISNKKKDIQTVVDYFSVPVSNPMCFLSQDAARSFLTASTSQDKYSHFMKGTLLQEITENLLYASAIHDSAQENMALHLENLKSLKAEYEDAKKLLRELNQTSDLNERKMLLQAKSLWIDVAHNTDACKNLENEISGIQQKVDEVTEKIRNRQEKIERYTSDGTTIEAQIDAKVIYVNEKDSEHQNARELLRDVKSRFEKEKSNQAEAQSNIDQGRKKVDALNKTIAHLEEELTKEMGGDKDQMRQELEQLEKANEKLREVNNSLVVSLQDVKNEERDIQHERESELRTISRSIQNKKVELQNIAKGNDTFLMNFDRNMDRLLRTIEQRKNEFETPAIGPLGSLVTIRKGFEKWTRSIQRAISSSLNAFVVSNPKDNRLFRDIMRSCGIRSNIPIVTYCLSQFDYSKGRAHGNYPTIVDALEFSKPEIECLFVDLSRIERIVLIEDKNEARNFLQRNPVNVNMALSLRDRRSGFQLSGGYRLDTVTYQDKIRLKVNSSSDNGTQYLKDLIEQETKELQNIRDRYEEKLSEVRSRLKEIDGRLKSTKNEMRKTNFRMTELKMNVGKVVDTGILNSKINERKNQEQAIASYEAAKEELGLKIEQIAQEAQPIKEQYDSTKLALVEAQDELQQLKEDINSRQSKIQKYKDDTIYYEDKKKVYLENIKKIEVNVAALKEGIQRQIQNACAFCSKERIENVDLPDTQEEIKRELDKVSRMIQKAEKSLGLSQEEVIALFEKCRNKYKEGQKKYMEIDEALNRLHNSLKARDQNYKNAEKGTCFDADMDFRASLKVRKFSGNLSFIKDTKSLEIYILTTNDEKARNVDTLSGGEKSFSQMALLLATWKPMRSRIIALDEFDVFMDQVNRKIGTTLIVKKLKDIARTQTIIITPQDIGKIADIDSSGVSIHRMRDPERQNNSNFYN |
| 2396 | sp|P47037|SMC3\_YEAST | MYIKRVIIKGFKTYRNETIIDNFSPHQNVIIGSNGSGKSNFFAAIRFVLSDDYSNLKREERQGLIHQGSGGSVMSASVEIVFHDPDHSMILPSGVLSRGDDEVTIRRTVGLKKDDYQLNDRNVTKGDIVRMLETAGFSMNNPYNIVPQGKIVALTNAKDKERLQLLEDVVGAKSFEVKLKASLKKMEETEQKKIQINKEMGELNSKLSEMEQERKELEKYNELERNRKIYQFTLYDRELNEVINQMERLDGDYNNTVYSSEQYIQELDKREDMIDQVSKKLSSIEASLKIKNATDLQQAKLRESEISQKLTNVNVKIKDVQQQIESNEEQRNLDSATLKEIKSIIEQRKQKLSKILPRYQELTKEEAMYKLQLASLQQKQRDLILKKGEYARFKSKDERDTWIHSEIEELKSSIQNLNELESQLQMDRTSLRKQYSAIDEEIEELIDSINGPDTKGQLEDFDSELIHLKQKLSESLDTRKELWRKEQKLQTVLETLLSDVNQNQRNVNETMSRSLANGIINVKEITEKLKISPESVFGTLGELIKVNDKYKTCAEVIGGNSLFHIVVDTEETATLIMNELYRMKGGRVTFIPLNRLSLDSDVKFPSNTTTQIQFTPLIKKIKYEPRFEKAVKHVFGKTIVVKDLGQGLKLAKKHKLNAITLDGDRADKRGVLTGGYLDQHKRTRLESLKNLNESRSQHKKILEELDFVRNELNDIDTKIDQVNGNIRKVSNDRESVLTNIEVYRTSLNTKKNEKLILEESLNAIILKLEKLNTNRTFAQEKLNTFENDLLQEFDSELSKEEKERLESLTKEISAAHNKLNITSDALEGITTTIDSLNAELESKLIPQENDLESKMSEVGDAFIFGLQDELKELQLEKESVEKQHENAVLELGTVQREIESLIAEETNNKKLLEKANNQQRLLLKKLDNFQKSVEKTMIKKTTLVTRREELQQRIREIGLLPEDALVNDFSDITSDQLLQRLNDMNTEISGLKNVNKRAFENFKKFNERRKDLAERASELDESKDSIQDLIVKLKQQKVNAVDSTFQKVSENFEAVFERLVPRGTAKLIIHRKNDNANDHDESIDVDMDAESNESQNGKDSEIMYTGVSISVSFNSKQNEQLHVEQLSGGQKTVCAIALILAIQMVDPASFYLFDEIDAALDKQYRTAVATLLKELSKNAQFICTTFRTDMLQVADKFFRVKYENKISTVIEVNREEAIGFIRGSNKFAEV |
| 2397 | sp|Q96N96|SPT13\_HUMAN | MTSASPEDQNAPVGCPKGARRRRPISVIGGVSLYGTNQTEELDNLLTQPASRPPMPAHQVPPYKAVSARFRPFTFSQSTPIGLDRVGRRRQMRASNVSSDGGTEPSALVDDNGSEEDFSYEDLCQASPRYLQPGGEQLAINELISDGNVVCAEALWDHVTMDDQELGFKAGDVIQVLEASNKDWWWGRSEDKEAWFPASFVRLRVNQEELSENSSSTPSEEQDEEASQSRHRHCENKQQMRTNVIREIMDTERVYIKHLRDICEGYIRQCRKHTGMFTVAQLATIFGNIEDIYKFQRKFLKDLEKQYNKEEPHLSEIGSCFLQNQEGFAIYSEYCNNHPGACLELANLMKQGKYRHFFEACRLLQQMIDIAIDGFLLTPVQKICKYPLQLAELLKYTTQEHGDYSNIKAAYEAMKNVACLINERKRKLESIDKIARWQVSIVGWEGLDILDRSSELIHSGELTKITKQGKSQQRTFFLFDHQLVSCKKDLLRRDMLYYKGRLDMDEMELVDLGDGRDKDCNLSVKNAFKLVSRTTDEVYLFCAKKQEDKARWLQACADERRRVQEDKEMGMEISENQKKLAMLNAQKAGHGKSKGYNRCPVAPPHQGLHPIHQRHITMPTSVPQQQVFGLAEPKRKSSLFWHTFNRLTPFRK |
| 2398 | sp|Q17QQ3|SNP25\_BOVIN | MAEDADMRNELEEMQRRADQLADESLESTRRMLQLVEESKDAGIRTLVMLDEQGEQLERIEEGMDQINKDMKEAEKNLTDLGKFCGLCVCPCNKLKSSDAYKKAWGNNQDGVVASQPARVVDEREQMAISGGFIRRVTNDARENEMDENLEQVSGIIGNLRHMALDMGNEIDTQNRQIDRIMEKADSNKTRIDEANQRATKMLGSG |
| 2399 | sp|P36394|SRY\_RAT | MEGQVKRPMNAFMVWSRGERHKLAQQNPSMQNSEISKQLGYQWKSLTEAEKRPFFQEAQRLKTLHREKYPNYKYQPHRRVKVPQRSYTLQREVASTKLYNLLQWDNNLHTIIYGQDWSRAA |
| 2400 | sp|Q3URD3|SLMAP\_MOUSE | MPSALAIFTCRPNSHPFQERHVYLDEPIKIGRSVARCRPAQNNATFDCKVLSRNHALVWFDHKTSKFYLQDTKSSNGTFINSQRLSRGSEESPPCEILSGDIIQFGVDVTENTRKVTHGCIVSTIKLFLPDGMEARLRSDVIHAPLPSPVDKVAANTPSMYSQELFQLSQYLQEALHREQMLEQKLATLQRLLAITQEASDTSWQALIDEDRLLSRLEVMGNQLQACSKNQTEDSLRKELIALQEDKHSYETTAKESLRRVLQEKIEVVRKLSEVERSLSNTEDECTHLKEMNERTQEELRELANKYNGAVNEIKDLSDKLKVAEGKQEEIQQKGQAEKKELQTKIDEMEEKEQELQAKIEALQADNDFTNERLTALQVRLEHLQEKTLKECSSLGIQVDDFLPKINGSTEKEHLLSKSGGDCTFIHQFLECQKKLMVQGHLTKVVEESKLSKENQAKAKESDLSDTLSPSKEKSSDDTTDAQMDEQDLNEPLAKVSLLKDDLQGTQSETEAKQDIQHLRKELVEAQELARTSKQKCFELQALLEEERKAYRNQVEESAKQIQVLQVQLQKLHMDMENLQEEKDTEISSTRDKLLSAQDEILLLRQAAAEAVSERDTDFVSLQEELKKVRAELEGWRKAASEYENEIRSLQSSFQLRCQQCEDQQREEATRLQGELEKLKKEWDVLETECHSLKKENVLLSSELQRQEKELHNSQKQSFELTSDLSILQMTRKELEKQVGSLKEQHLRDAADLKTLLSKAENQAKDVQKEYEKTQTVLSELKLKFEMTEQEKQSITDELKQCKDNLKLLREKGNNKPWPWMPMLAALVAVTAMVLYVPGLARASP |
| 2401 | sp|P32558|SPT16\_YEAST | MEELNIDFDVFKKRIELLYSKYNEFEGSPNSLLFVLGSSNAENPYQKTTILHNWLLSYEFPATLIALVPGKVIIITSSAKAKHLQKAIDLFKDPESKITLELWQRNNKEPELNKKLFDDVIALINSAGKTVGIPEKDSYQGKFMTEWNPVWEAAVKENEFNVIDISLGLSKVWEVKDVNEQAFLSVSSKGSDKFMDLLSNEMVRAVDEELKITNAKLSDKIENKIDDVKFLKQLSPDLSALCPPNYKFNFDLLDWTYSPIIQSGKKFDLRVSARSTNDQLYGNGCILASCGIRYNNYCSNITRTFLIDPSEEMANNYDFLLTLQKEIVTNILKPGRTPKEVYESVIEYIEKTKPELVPNFTKNIGSLIGLEFRDSNFILNVKNDYRKIQRGDCFNISFGFNNLKDSQSANNYALQLADTVQIPLDETEPPRFLTNYTKAKSQISFYFNNEEEDNNKKKSSPATKVPSKPDRNSKILRTKLRGEARGGAEDAQKEQIRKENQKKLHEKLEKNGLLRFSAADANGPDSEPRQYFKKYESYVRDSQLPTNIRDLRIHVDWKSQTIILPIYGRPVPFHINSYKNGSKNEEGEYTYLRLNFNSPGSSGGISKKVEELPYEESADNQFVRSITLRSKDGDRMSETFKQIADLKKEATKREQERKALADVVQQDKLIENKTGRTKRLDQIFVRPNPDTKRVPSTVFIHENGIRFQSPLRTDSRIDILFSNIKNLIFQSCKGELIVVIHIHLKNPILMGKKKIQDVQFYREASDMSVDETGGGRRGQSRFRRYGDEDELEQEQEERRKRAALDKEFKYFADAIAEASNGLLTVENTFRDLGFQGVPNRSAVFCMPTTDCLVQLIEPPFLVINLEEVEICILERVQFGLKNFDMVFVYKDFNKPVTHINTVPIESLDFLKQWLTDMDIPYTVSTINLNWATIMKSLQDDPYQFFLDGGWNFLATGSDDEASDESEEEVSEYEASEDDVSDESAFSEDEEGSEVDDDISGDESEDYTGDESEEGEDWDELEKKAARADRGANFRD |
| 2402 | sp|Q8BG39|SV2B\_MOUSE | MDDYRYRDNYEGYAPSDGYYRSNEQNQEEDAQSDVTEGHDEEDEIYEGEYQGIPHPDDVKSKQTKMAPSRADGLGGQADLMAERMEDEEELAHQYETIIDECGHGRFQWTLFFVLGLALMADGVEIFVVSFALPSAEKDMCLSSSKKGMLGLIVYLGMMAGAFILGGLADKLGRKKVLSMSLAINASFASLSSFVQGYGAFLFCRLISGIGIGGSLPIVFAYFSEFLSREKRGEHLSWLGIFWMTGGIYASAMAWSIIPHYGWGFSMGTNYHFHSWRVFVIVCALPATVSMVALKFMPESPRFLLEMGKHDEAWMILKQVHDTNMRAKGTPEKVFTVSHIKTPKQMDEFIEIQSSTGTWYQRWLVRFMTIFKQVWDNALYCVMGPYRMNTLILAVVWFTMALSYYGLTVWFPDMIRYFQDEEYKSKMKVFFGEHVHGATINFTMENQIHQHGKLVNDKFIKMYFKHVLFEDTFFDKCYFEDVTSTDTYFKNCTIESTTFYNTDLYKHKFINCRFINSTFLEQKEGCHMDFEEDNDFLIYLVSFLGSLSVLPGNIISALLMDRIGRLKMIGGSMLISAVCCFFLFFGNSESAMIGWQCLFCGTSIAAWNALDVITVELYPTNQRATAFGILNGLCKFGAILGNTIFASFVGITKVVPILLAAASLVGGGLIALRLPETREQVLM |
| 2403 | sp|Q9H040|SPRTN\_HUMAN | MDDDLMLALRLQEEWNLQEAERDHAQESLSLVDASWELVDPTPDLQALFVQFNDQFFWGQLEAVEVKWSVRMTLCAGICSYEGKGGMCSIRLSEPLLKLRPRKDLVETLLHEMIHAYLFVTNNDKDREGHGPEFCKHMHRINSLTGANITVYHTFHDEVDEYRRHWWRCNGPCQHRPPYYGYVKRATNREPSAHDYWWAEHQKTCGGTYIKIKEPENYSKKGKGKAKLGKEPVLAAENKDKPNRGEAQLVIPFSGKGYVLGETSNLPSPGKLITSHAINKTQDLLNQNHSANAVRPNSKIKVKFEQNGSSKNSHLVSPAVSNSHQNVLSNYFPRVSFANQKAFRGVNGSPRISVTVGNIPKNSVSSSSQRRVSSSKISLRNSSKVTESASVMPSQDVSGSEDTFPNKRPRLEDKTVFDNFFIKKEQIKSSGNDPKYSTTTAQNSSSSSSQSKMVNCPVCQNEVLESQINEHLDWCLEGDSIKVKSEESL |
| 2404 | sp|F4JAA5|SKI2\_ARATH | MNKVEAGNELGFRVGFSGHGGHLRVEPFYTAERDDALNSLPDFVSPPAFAKETKESIKKHIEEKYLIPRLEPDQFSAEKAENQWDFDWFSRVKMPLQPSLPRSVVVPTWELPFRRQKEDTENGAWEPKSVEVDLSEQMYGDQDSGFFPRMVGPPKDFLRGSVNNRPFRPGGLEDSQSSERVLPEGVSSGQWVQELLNGGPAQTVPPSFKQSLDLGDLMPYPQTWSVYEDHSSHGNASDENSSKLSIQFDDLFKKAWEEDTFSELEGDDHTAGSESPKAEAEPDAKASISNEVSKGLETDVTVLDEILSSAKTAIMSEEAVTGSSDKQLRKEGWATKGDSQDIADRFYELVPDMAIEFPFELDNFQKEAICCLEKGESVFVAAHTSAGKTVVAEYAFALATKHCTRAVYTAPIKTISNQKYRDFCGKFDVGLLTGDVSIRPEASCLIMTTEILRSMLYRGADIIRDIEWVIFDEVHYVNDVERGVVWEEVIIMLPRHINFVLLSATVPNTFEFADWIGRTKQKEIRVTGTTKRPVPLEHCLFYSGELYKVCENEVFLSKGIKDAKDSQKKKNSNAVSVAPKQQMGSSAHQDGSKSQKHEAHSRGKQNKHSSVKDVGKSSYSGNSQNNGAFRRSAASNWLLLINKLSKMSLLPVVVFCFSKNYCDRCADALTGTDLTSSSEKSEIRVFCDKAFSRLKGSDRNLPQVLRLQSLLHRGIGVHHAGLLPIVKEVVEMLFCRGVIKVLFSTETFAMGVNAPARTVVFDALRKFDGKEFRQLLPGEYTQMAGRAGRRGLDKTGTVVVMCRDEVPDESDLRRVIVGSATRLESQFRLTYIMILHLLRVEELKVEDMLKRSFAEFHAQKKLPEKQQLLMIKRSLPTKHIECIKGEPAIEDYYDMYMEANEYNNKMSEAVMQSPYAQSFLVQGRVVVMKSGMGIDNLLGIVLKGPSNTNRQYVVLVIKSEIPPPEKNMVSIGKKSSDPSQGYFIAPKSKRGFEEEFYTKPSSRKGPVVIKIELPYHGVAAGVGYEVKGFDNKEFLCICDSKIKIDQVRLLEDGNKAAFSQTVQQLLDLKSDGNKFPPALDPVKDLKLKDAELVETYYKWTNLLQKMSMNKCHGCVKLEEHMKLAREIKKHKTDLKDLEFQMSDEALLQMPAFQGRIDVLKNIGCIDDDLVVQIKGRVACEMNSGEELICTVCLFENQFEELEPEEAVAIMSAFVFQQKNTSAPTLTPKLAKAKQRLYDTAIRLGELQAQYNLQIDPEEYAQENLKFGLVEVVYEWAKGTPFAEICELTDVPEGLIVRTIVRLDETCREFKNAAAIMGNSALHKKMDAASNAIKRDIVFAASLYVTGV |
| 2405 | sp|Q8BLY1|SMOC1\_MOUSE | MLPARVRLLTPHLLLVLVQLSPAGGHRTTGPRFLISDRDPPCNPHCPRTQPKPICASDGRSYESMCEYQRAKCRDPALAVVHRGRCKDAGQSKCRLERAQALEQAKKPQEAVFVPECGEDGSFTQVQCHTYTGYCWCVTPDGKPISGSSVQNKTPVCSGPVTDKPLSQGNSGRKVSFRFFLTLNSDDGSKPTPTMETQPVFDGDEITAPTLWIKHLVIKDSKLNNTNVRNSEKVHSCDQERQSALEEARQNPREGIVIPECAPGGLYKPVQCHQSTGYCWCVLVDTGRPLPGTSTRYVMPSCESDARAKSVEADDPFKDRELPGCPEGKKMEFITSLLDALTTDMVQAINSAAPTGGGRFSEPDPSHTLEERVAHWYFSQLDSNSSDDINKREMKPFKRYVKKKAKPKKCARRFTDYCDLNKDKVISLPELKGCLGVSKEGGSLGSFPQGKRAGTNPFIGRLV |
| 2406 | sp|Q969W0|SPTSA\_HUMAN | MAGMALARAWKQMSWFYYQYLLVTALYMLEPWERTVFNSMLVSIVGMALYTGYVFMPQHIMAILHYFEIVQ |
| 2407 | sp|P48491|TPIS\_ARATH | MARKFFVGGNWKCNGTAEEVKKIVNTLNEAQVPSQDVVEVVVSPPYVFLPLVKSTLRSDFFVAAQNCWVKKGGAFTGEVSAEMLVNLDIPWVILGHSERRAILNESSEFVGDKVAYALAQGLKVIACVGETLEEREAGSTMDVVAAQTKAIADRVTNWSNVVIAYEPVWAIGTGKVASPAQAQEVHDELRKWLAKNVSADVAATTRIIYGGSVNGGNCKELGGQADVDGFLVGGASLKPEFIDIIKAAEVKKSA |
| 2408 | sp|Q9NZC2|TREM2\_HUMAN | MEPLRLLILLFVTELSGAHNTTVFQGVAGQSLQVSCPYDSMKHWGRRKAWCRQLGEKGPCQRVVSTHNLWLLSFLRRWNGSTAITDDTLGGTLTITLRNLQPHDAGLYQCQSLHGSEADTLRKVLVEVLADPLDHRDAGDLWFPGESESFEDAHVEHSISRSLLEGEIPFPPTSILLLLACIFLIKILAASALWAAAWHGQKPGTHPPSELDCGHDPGYQLQTLPGLRDT |
| 2409 | sp|P39429|TRAF2\_MOUSE | MAAASVTSPGSLELLQPGFSKTLLGTRLEAKYLCSACKNILRRPFQAQCGHRYCSFCLTSILSSGPQNCAACVYEGLYEEGISILESSSAFPDNAARREVESLPAVCPNDGCTWKGTLKEYESCHEGLCPFLLTECPACKGLVRLSEKEHHTEQECPKRSLSCQHCRAPCSHVDLEVHYEVCPKFPLTCDGCGKKKIPRETFQDHVRACSKCRVLCRFHTVGCSEMVETENLQDHELQRLREHLALLLSSFLEAQASPGTLNQVGPELLQRCQILEQKIATFENIVCVLNREVERVAVTAEACSRQHRLDQDKIEALSNKVQQLERSIGLKDLAMADLEQKVSELEVSTYDGVFIWKISDFTRKRQEAVAGRTPAIFSPAFYTSRYGYKMCLRVYLNGDGTGRGTHLSLFFVVMKGPNDALLQWPFNQKVTLMLLDHNNREHVIDAFRPDVTSSSFQRPVSDMNIASGCPLFCPVSKMEAKNSYVRDDAIFIKAIVDLTGL |
| 2410 | sp|O94811|TPPP\_HUMAN | MADKAKPAKAANRTPPKSPGDPSKDRAAKRLSLESEGAGEGAAASPELSALEEAFRRFAVHGDARATGREMHGKNWSKLCKDCQVIDGRNVTVTDVDIVFSKIKGKSCRTITFEQFQEALEELAKKRFKDKSSEEAVREVHRLIEGKAPIISGVTKAISSPTVSRLTDTTKFTGSHKERFDPSGKGKGKAGRVDLVDESGYVSGYKHAGTYDQKVQGGK |
| 2411 | sp|O14798|TR10C\_HUMAN | MARIPKTLKFVVVIVAVLLPVLAYSATTARQEEVPQQTVAPQQQRHSFKGEECPAGSHRSEHTGACNPCTEGVDYTNASNNEPSCFPCTVCKSDQKHKSSCTMTRDTVCQCKEGTFRNENSPEMCRKCSRCPSGEVQVSNCTSWDDIQCVEEFGANATVETPAAEETMNTSPGTPAPAAEETMNTSPGTPAPAAEETMTTSPGTPAPAAEETMTTSPGTPAPAAEETMITSPGTPASSHYLSCTIVGIIVLIVLLIVFV |
| 2412 | sp|Q9V8P9|TOPRS\_DROME | MAEENPGALAANVPYLGVDELGASVIVEPGLEGSNAGGRTLPAAAIKFADLTESGSESGDNEAEEPVSAGPDNANAIGEPGTSASAAEENGTVERNSPPPNCAICLSRCRRKCFTDSCMHQFCFKCLCEWSKIKPECPLCKQPFRTIIHNVRTLDDYDRYPVQTTSPVPTENPSLRYHIVRRPRYTPLVQNQAVIVNDIEAAIAAGAAGEDVLSAAEVAAGRRSYSRFEPYRSELMNYYQHDQDASTSGSLSQLWRRYVYDRKLYALPVSDSVTGHFREWSARFYRNNPAQIHRLMPWIHRDIMCLLRNAAHSVNTVMTLMSDLLPMTSLLGPTFRRRLSPYLGERTSHFIHELFNFARSPYDINGYDHVVQYSARVAEEVEVDLLDMVETQSSNGDDLNLEVGDSDADAINAGFSPDWSPPRVRPSTSVIVTNPGATHSFSVTMASDGSELPGISIRRTTNVGSQTVAINLSMRRPAAVASEEPEVIEIDDGDAAANAEVAAINDGSNTSRRHAGATLPVTAHIELESSSSSGDEDECVFVLELKPPHMRTPEQVSLDSNSDSDVVFVNEQHEAAPDAIAENRSTQSPLDLASRDQGLFMGPSTSGAAANRGKNWKLVMAQTRRLDQLRTLRSIRSKKSRRSSMPARSDSGSSPSSCSSSSFHFSSSSDEDSSDSSTTNSEPPKKKSRKRVANNKRSKKESIGKRTSRKRKAKDQNMEMLEQQQISQKKPQRQPESSSDSPSSSDDESGGDSSESSGQPNTNNNKSSSDSDDDSAVNMQLSALRATLKAEATLEDRKPVKLELQLPDDDQAGPLHSRMTPSPREDNEPGCSAPKRRRSCSHSNQSSQSASLASSSTATSSSAPLSSFAWGAAGFSGDPLMRGHPAMEEHDIANSLIELSTLTQPVNIGLFNEHYNSAENSMGMLSNTLCDSPQTLAADDANLENYFDTDADPEASRERDAYSLEAAIDVVGESELQIAEDTATATEEQDEEDEEDEDQEEDDQEEEKAAEEEEEEEEDDDDSDNHDENDENQGLLPY |
| 2413 | sp|A1ZA47|ZASP\_DROME | MAQPQLLQIKLSRFDAQPWGFRLQGGTDFAQPLLVQKVNAGSLSEQAGLQPGDAVVKINDVDVFNLRHKDAQDIVVRSGNNFVITVQRGGSTWRPHVTPTGNVPQPNSPYLQTVTKTSLAHKQQDSQHIGCGYNNAARPFSNGGDGGVKSIVNKQYNTPVGIYSDESIAETLSAQAEVLAGGVLGVNFKKNEKEYQGDRSEVLKFLREEETGQSTPAFGNSHYEHDAPQQLQQPQQQYNQHQQHYHQQQQQQQSSTTRHVSAPVNSPKPPSTGGLPTGQNICTECERLITGVFVRIKDKNLHVECFKCATCGTSLKNQGYYNFNNKLYCDIHAKQAAINNPPTGTEGYVPVPIKPNTKLSASTISSALNSHGYGGHSNGYSNGNSTPAPAPVASSQATATVATVAPSAATAATAAATPQAATATDSPAATASSSDNMSAYVADEPSSIYGQISAESVALAPPPPQPPTAGGGDQPFEYVTLTGNVIRSVQAPGKGACPSYKVNQGYARPFGAAAPKSPVSYPPQQQQQSPRPAPGGQNPYATLPRSNVGQQGGEAVEELQPEFEEEDCYEMDIEVALAASRQSQRGSSFTWPPPQDDSHLAPTAAPLYIPPPETQHVVVSNPVQQVPPLPPGGATARLDPQPVVGTSANGAPQWQSYSAPQLTTASARQLAEQESSSDSYTSTSTTTTTTSEEYQRMYAAQVQAYQMQEQSGSEFDYQVDYASTQDSVQDYPSGRRSAQECVDSLAVPLSTYKLVDMVREVTPSPVTTPTQTPAPAAPTTRRVVFNDEPEIKELPQLPAELETIPEASEAVEDREGLVIEQRCQILESERKFQPTPEIKIEIAPVRQIPPTKIPNPMPKEWINPMIRVLTTAPEVPFHLVECPFPRPCGDDFEAEAAAAEAAKTQEVPEPLPPQVSAAPPATVSVEPSPAPLRESPPRGSRLSQAMVTAPEFELKFAPPADQGIPLPEETEPYMPPPIDTKPYLREDYRPKSPFVSALTTAPDRPFEGHFDKDVPIHMIDLPTPKEHLSMCDALCTAPERGYTPLNPENAMHRVDEEQKQQELKKREFQVLDHEEELGIRPEPPQSVEYYETRRDQPRKSSAFAAMQAFQPSREPLSSNTVSNAGSVADTPRASIVSALKEETDLEYQKYLKAQQRNQKRLDYFHQKEEELSGLQGQQLTQLQRELSNQQQNLLSQQQLQQSKLLQLQQCVQSQELQQQVQHLTQKSQQQPPQANQQQQQQQQQRGTQQQQHSQVTQRTQQQQQQVPQQVTQQQQQEHSLLSQTTLAETQTLQANAQSQSSASYSSKATACSNSSSTVPPANTSTAFAPAPAPAPTSIPVRPSAIAVQSSYCSSQFDVHELIEETAEELEHSEVLFPPPSPLSHLTKQGKAVQSGLHKADSIPKYQRNWTVLPTQSPIRTPEPQELRENVPLAFVDAPKAPVTSDSSTVHRPIAQVAAPTTVVAPSREREKERRPQLSVPIIVEDRSGPVTMAFQPLDELVRPDQALTPTRPYTPSLTNKPAPIVPFYQTEEKLVFEECSATHARNYNELNASPFPDRTRSPAPGPPPNPLNAIRAPRMKEPETKSNILSVSGGPRLQTGSITTGQSYQGQLLAHSEQSSQSASQSYNQQPERITEQRVGNLNIQQREQSSQLQQQAQSQTQSQTRSQVGNTQIERRRKVTEEFERTQSAKTIEIRTGSQSVSQSKAQSQSISQAQTQAQSQSQNQSDTERRSSYGKTGFVASQAKRLSCMEEEISSLTSQSQAISARASALGEGCFPNLRSPTFDSKFPLKPAPAESIVPGYATVPAATKMLTAPPPGFLQQQQQQQQRSAFSGYQATTSSVQQSSFASSSKATTSSLSSSSASASASASVARSSQSLTQASAITTTTNNQATTAYRSSNGSITKPNLASRPSIASITAPGSASAPAPVPSAAPTKATAPFKAPIVPKSVIANAVNAAAPPAPAVFPPDLSDLNLNSNVDNSPGAGGKSAGAFGATSAPKRGRGILNKAAGPGVRIPLCNSCNVQIRGPFITALGRIWCPDHFICVNGNCRRPLQDIGFVEEKGDLYCEYCFEKYLAPTCSKCAGKIKGDCLNAIGKHFHPECFTCGQCGKIFGNRPFFLEDGNAYCEADWNELFTTKCFACGFPVEAGDRWVEALNHNYHSQCFNCTFCKQNLEGQSFYNKGGRPFCKNHAR |
| 2414 | sp|Q8TBZ8|ZN564\_HUMAN | MDSVASEDVAVNFTLEEWALLDPSQKKLYRDVMRETFRNLACVGKKWEDQSIEDWYKNQGRILRNHMEEGLSESKEYDQCGEAFSQILNLNLNKKIPTIVRPCECSLCGKVFMHHSSLSRHIRSHLGHKPYDYQEYGEKPYKCKQCGKAFSSCQSFRRHERTHTGEKPYACPECGKAFISLPSVRRHMIKHTGDGPYKCQECGKAFDRPSLFQIHERTHTGEKPYECQECAKAFISLPSFQRHMIRHTGDGPYKCQECGKAFDRPSLFRIHERTHTGEKPHECKQCGKAFISFTNFQSHMIRHTGDGPYKCKVCGRAFIFPSYVRKHERTHTGEKPYECNKCGKTFSSSSNVRTHERTHTGEKPYECKECGKAFISLPSVRRHMIKHTGDGPYKCQVCGRAFDCPSSFQIHERTHTGEKPYECQVCGKAFISLKRIRKHMILHTGDGPYKCQVCGKAFDCPSSVRTHERTHTGEKPYECKECGKAFNYASSIRIHERTHTGEKPYECKQCGKTFSYSSSFQRHERAHNGDKPYVKNVGKLSFITQPSNTCENE |
| 2415 | sp|Q96C00|ZBTB9\_HUMAN | METPTPLPPVPASPTCNPAPRTIQIEFPQHSSSLLESLNRHRLEGKFCDVSLLVQGRELRAHKAVLAAASPYFHDKLLLGDAPRLTLPSVIEADAFEGLLQLIYSGRLRLPLDALPAHLLVASGLQMWQVVDQCSEILRELETSGGGISARGGNSYHALLSTTSSTGGWCIRSSPFQTPVQSSASTESPASTESPVGGEGSELGEVLQIQVEEEEEEEEDDDDEDQGSATLSQTPQPQRVSGVFPRPHGPHPLPMTATPRKLPEGESAPLELPAPPALPPKIFYIKQEPFEPKEEISGSGTQPGGAKEETKVFSGGDTEGNGELGFLLPSGPGPTSGGGGPSWKPVDLHGNEILSGGGGPGGAGQAVHGPVKLGGTPPADGKRFGCLCGKRFAVKPKRDRHIMLTFSLRPFGCGICNKRFKLKHHLTEHMKTHAGALHACPHCGRRFRVHACFLRHRDLCKGQGWATAHWTYK |
| 2416 | sp|O43167|ZBT24\_HUMAN | MAETSPEPSGQLVVHSDAHSDTVLASFEDQRKKGFLCDITLIVENVHFRAHKALLAASSEYFSMMFAEEGEIGQSIYMLEGMVADTFGILLEFIYTGYLHASEKSTEQILATAQFLKVYDLVKAYTDFQNNHSSPKPTTLNTAGAPVVVISNKKNDPPKRKRGRPKKVNTLQEEKSELAAEEEIQLRVNNSVQNRQNFVVKGDSGVLNEQIAAKEKEESEPTCEPSREEEMPVEKDENYDPKTEDGQASQSRYSKRRIWRSVKLKDYKLVGDQEDHGSAKRICGRRKRPGGPEARCKDCGKVFKYNHFLAIHQRSHTGERPFKCNECGKGFAQKHSLQVHTRMHTGERPYTCTVCSKALTTKHSLLEHMSLHSGQKSFTCDQCGKYFSQNRQLKSHYRVHTGHSLPECKDCHRKFMDVSQLKKHLRTHTGEKPFTCEICGKSFTAKSSLQTHIRIHRGEKPYSCGICGKSFSDSSAKRRHCILHTGKKPFSCPECNLQFARLDNLKAHLKIHSKEKHASDASSISGSSNTEEVRNILQLQPYQLSTSGEQEIQLLVTDSVHNINFMPGPSQGISIVTAESSQNMTADQAANLTLLTQQPEQLQNLILSAQQEQTEHIQSLNMIESQMGPSQTEPVHVITLSKETLEHLHAHQEQTEELHLATSTSDPAQHLQLTQEPGPPPPTHHVPQPTPLGQEQS |
| 2417 | sp|Q5VZL5|ZMYM4\_HUMAN | MAEREVESGPRKRFEQKSGAVFDEIVENCGGIMDTEMSEDIDHNLTPTLDSMSYGMPNQTGSENSLLDEDDYFLNSGDLAGIPVVGSDNEDEQDFSSKDNLVSSIHTDDSLEVERRVTQHESDNENEIQIQNKLKKDFPKQFDQVSVFKSIRKDFSLVRENSKETFSGKEKNRDLTYEREKRLDKPHKDLDSRLKSSFFDKAANQVEETLHTHLPQTPETNFRDSSYPFANKESIGSELGNSFASNIRIKEEPLDDEYDKAMAPQQGLLDKIKDEPDNAQEYSHGQQQKTQEGELKISAVFSVSGSPLAPQLTTGFQPSLASSGMNKMLPSVPATAVRVSCSGCKKILQKGQTAYQRKGSTQLFCSTLCLTGYTVPPARPPPPLTKKTCSSCSKDILNPKDVISAQFENTTTSKDFCSQSCLSTYELKKKPIVTINTNSISTKCSMCQKNAVIRHEVNYQNVVHKLCSDACFSKFRSANNLTMNCCENCGGYCYSGSGQCHMLQIEGQSKKFCSSSCITAYKQKSAKITPCALCKSLRSSAEMIENTNSLGKTELFCSVNCLSAYRVKMVTSAGVQVQCNSCKTSAIPQYHLAMSDGSIRNFCSYSCVVAFQNLFNKPTGMNSSVVPLSQGQVIVSIPTGSTVSAGGGSTSAVSPTSISSSAAAGLQRLAAQSQHVGFARSVVKLKCQHCNRLFATKPELLDYKGKMFQFCGKNCSDEYKKINNVMAMCEYCKIEKIVKETVRFSGADKSFCSEGCKLLYKHDLAKRWGNHCKMCSYCLQTSPKLVQNNLGGKVEEFCCEECMSKYTVLFYQMAKCDACKRQGKLSESLKWRGEMKHFCNLLCILMFCNQQSVCDPPSQNNAANISMVQAASAGPPSLRKDSTPVIANVVSLASAPAAQPTVNSNSVLQGAVPTVTAKIIGDASTQTDALKLPPSQPPRLLKNKALLCKPITQTKATSCKPHTQNKECQTEDTPSQPQIIVVPVPVPVFVPIPLHLYTQYAPVPFGIPVPMPVPMLIPSSMDSEDKVTESIEDIKEKLPTHPFEADLLEMAEMIAEDEEKKTLSQGESQTSEHELFLDTKIFEKDQGSTYSGDLESEAVSTPHSWEEELNHYALKSNAVQEADSELKQFSKGETEQDLEADFPSDSFDPLNKGQGIQARSRTRRRHRDGFPQPRRRGRKKSIVAVEPRSLIQGAFQGCSVSGMTLKYMYGVNAWKNWVQWKNAKEEQGDLKCGGVEQASSSPRSDPLGSTQDHALSQESSEPGCRVRSIKLKEDILSCTFAELSLGLCQFIQEVRRPNGEKYDPDSILYLCLGIQQYLFENGRIDNIFTEPYSRFMIELTKLLKIWEPTILPNGYMFSRIEEEHLWECKQLGAYSPIVLLNTLLFFNTKYFQLKNVTEHLKLSFAHVMRRTRTLKYSTKMTYLRFFPPLQKQESEPDKLTVGKRKRNEDDEVPVGVEMAENTDNPLRCPVRLYEFYLSKCSESVKQRNDVFYLQPERSCVPNSPMWYSTFPIDPGTLDTMLTRILMVREVHEELAKAKSEDSDVELSD |
| 2418 | sp|Q38893|ZDS\_ARATH | MASSVVFAATGSLSVPPLKSRRFYVNSSLDSDVSDMSVNAPKGLFPPEPVPYKGPKLKVAIIGAGLAGMSTAVELLDQGHEVDIYDSRTFIGGKVGSFVDRRGNHIEMGLHVFFGCYNNLFRLMKKVGAEKNLLVKDHTHTFINKDGTIGELDFRFPVGAPIHGIRAFLVTNQLKPYDKLRNSLALALSPVVKALVDPDGAMRDIRNLDSISFSDWFLSKGGTRASIQRMWDPVAYALGFIDCDNMSARCMLTIFSLFATKTEASLLRMLKGSPDVYLSGPIKQYITDRGGRIHLRWGCREILYDKSADGETYVTGLAISKATNKKIVKADVYVAACDVPGIKRLLPKEWRESRFFNDIYELEGVPVVTVQLRYNGWVTELQDIELARQLKRAVGLDNLLYTPDADFSCFADLALASPADYYIEGQGTLLQCVLTPGDPYMRMPNDKIIEKVAMQVTELFPSSRGLEVTWSSVVKIAQSLYREAPGKDPFRPDQKTPIKNFFLAGSYTKQDYIDSMEGATLSGRQASSYICDAGEELAELNKKLSSSATAVPDELSLV |
| 2419 | sp|Q15569|TESK1\_HUMAN | MAGERPPLRGPGPGPGEVPGEGPPGPGGTGGGPGRGRPSSYRALRSAVSSLARVDDFHCAEKIGAGFFSEVYKVRHRQSGQVMVLKMNKLPSNRGNTLREVQLMNRLRHPNILRFMGVCVHQGQLHALTEYMNGGTLEQLLSSPEPLSWPVRLHLALDIARGLRYLHSKGVFHRDLTSKNCLVRREDRGFTAVVGDFGLAEKIPVYREGARKEPLAVVGSPYWMAPEVLRGELYDEKADVFAFGIVLCELIARVPADPDYLPRTEDFGLDVPAFRTLVGDDCPLPFLLLAIHCCNLEPSTRAPFTEITQHLEWILEQLPEPAPLTRTALTHNQGSVARGGPSATLPRPDPRLSRSRSDLFLPPSPESPPNWGDNLTRVNPFSLREDLRGGKIKLLDTPSKPVLPLVPPSPFPSTQLPLVTTPETLVQPGTPARRCRSLPSSPELPRRMETALPGPGPPAVGPSAEEKMECEGSSPEPEPPGPAPQLPLAVATDNFISTCSSASQPWSPRSGPVLNNNPPAVVVNSPQGWAGEPWNRAQHSLPRAAALERTEPSPPPSAPREPDEGLPCPGCCLGPFSFGFLSMCPRPTPAVARYRNLNCEAGSLLCHRGHHAKPPTPSLQLPGARS |
| 2420 | sp|P0AGJ9|SYY\_ECOLI | MASSNLIKQLQERGLVAQVTDEEALAERLAQGPIALYCGFDPTADSLHLGHLVPLLCLKRFQQAGHKPVALVGGATGLIGDPSFKAAERKLNTEETVQEWVDKIRKQVAPFLDFDCGENSAIAANNYDWFGNMNVLTFLRDIGKHFSVNQMINKEAVKQRLNREDQGISFTEFSYNLLQGYDFACLNKQYGVVLQIGGSDQWGNITSGIDLTRRLHQNQVFGLTVPLITKADGTKFGKTEGGAVWLDPKKTSPYKFYQFWINTADADVYRFLKFFTFMSIEEINALEEEDKNSGKAPRAQYVLAEQVTRLVHGEEGLQAAKRITECLFSGSLSALSEADFEQLAQDGVPMVEMEKGADLMQALVDSELQPSRGQARKTIASNAITINGEKQSDPEYFFKEEDRLFGRFTLLRRGKKNYCLICWK |
| 2421 | sp|Q9BT88|SYT11\_HUMAN | MAEITNIRPSFDVSPVVAGLIGASVLVVCVSVTVFVWSCCHQQAEKKQKNPPYKFIHMLKGISIYPETLSNKKKIIKVRRDKDGPGREGGRRNLLVDAAEAGLLSRDKDPRGPSSGSCIDQLPIKMDYGEELRSPITSLTPGESKTTSPSSPEEDVMLGSLTFSVDYNFPKKALVVTIQEAHGLPVMDDQTQGSDPYIKMTILPDKRHRVKTRVLRKTLDPVFDETFTFYGIPYSQLQDLVLHFLVLSFDRFSRDDVIGEVMVPLAGVDPSTGKVQLTRDIIKRNIQKCISRGELQVSLSYQPVAQRMTVVVLKARHLPKMDITGLSGNPYVKVNVYYGRKRIAKKKTHVKKCTLNPIFNESFIYDIPTDLLPDISIEFLVIDFDRTTKNEVVGRLILGAHSVTASGAEHWREVCESPRKPVAKWHSLSEY |
| 2422 | sp|P70347|TANK\_MOUSE | MSLKRHSLRRNACHLETRAGIPTILYSDATGQRGMDKNIGEQLNRAYEAFRQACMDRDSAVRELQQKQTENYEQRIREQQEQLSFQQNLIDRLKSQLLLVDSSRDNSYGYVPLLEDSDRRKNNLTLDEPHDKVKLGTLRDKQSKVRRQEVSSGKESAKGLNIPLHHERDNIEKTFWDLKEEFHRICLLAKAQKDHLSKLNIPDIATDTQCSVPIQCTDKTEKQEALFKPQAKDDINRGMSCVTAVTPRGLGRDEEDTSFESLSKFNVKFPPMDNDSIFLHSTPEAPSILAPATPETVCQDRFNMEVRDNPGNFVKTEETLFEIQGIDPITSAIQNLKTTDKTNPSNLRATCLPAGDHNVFYVNTFPLQDPPDAPFPSLDSPGKAVRGPQQPFWKPFLNQDTDLVVPSDSDSELLKPLVCEFCQELFPPSITSRGDFLRHLNTHFNGET |
| 2423 | sp|P42932|TCPQ\_MOUSE | MALHVPKAPGFAQMLKDGAKHFSGLEEAVYRNIQACKELAQTTRTAYGPNGMNKMVINRLEKLFVTNDAATILRELEVQHPAAKMIVMASHMQEQEVGDGTNFVLVFAGALLELAEELLRIGLSVSEVISGYEIACKKAHEILPELVCCSAKNLRDVDEVSSLLRTSIMSKQYGSETFLAKLIAQACVSIFPDSGNFNVDNIRVCKILGSGIYSSSVLHGMVFKKETEGDVTSVKDAKIAVYSCPFDGMITETKGTVLIKTAEELMNFSKGEENLMDAQVKAIAGTGANVIVTGGKVADIALHYANKYNIMLVRLNSKWDLRRLCKTVGATALPKLTPPVQEEMGHCDSVYLSEVGDTQVVVFKHEKEDGAISTIVLRGSTDNLMDDIERAVDDGVNTFKVLTRDKRLVPGGGATEIELAKQITSYGETCPGLEQYAIKKFAEAFEAIPRALAENSGVKANEVISKLYSVHQEGNKNVGLDIEAEVPAVKDMLEASILDTYLGKYWAIKLATNAAVTVLRVDQIIMAKPAGGPKPPSGKKDWDDDQND |
| 2424 | sp|Q9M2U2|TECR\_ARATH | MKVTVVSRSGREVLKAPLDLPDSATVADLQEAFHKRAKKFYPSRQRLTLPVTPGSKDKPVVLNSKKSLKEYCDGNNNSLTVVFKDLGAQVSYRTLFFFEYLGPLLIYPVFYYFPVYKFLGYGEDCVIHPVQTYAMYYWCFHYFKRILETFFVHRFSHATSPIGNVFRNCAYYWSFGAYIAYYVNHPLYTPVSDLQMKIGFGFGLVCQVANFYCHILLKNLRDPSGAGGYQIPRGFLFNIVTCANYTTEIYQWLGFNIATQTIAGYVFLAVAALIMTNWALGKHSRLRKIFDGKDGKPKYPRRWVILPPFL |
| 2425 | sp|O81283|TC159\_ARATH | MDSKSVTPEPTNPFYASSGQSGKTYASVVAAAAAAAADKEDGGAVSSAKELDSSSEAVSGNSDKVGADDLSDSEKEKPNLVGDGKVSDEVDGSLKEDSTTPEATPKPEVVSGETIGVDDVSSLSPKPEAVSDGVGVVEENKKVKEDVEDIKDDGESKIENGSVDVDVKQASTDGESESKVKDVEEEDVGTKKDDEGESELGGKVDVDDKSDNVIEEEGVELTDKGDVIVNSSPVESVHVDVAKPGVVVVGDAEGSEELKINADAETLEVANKFDQIGDDDSGEFEPVSDKAIEEVEEKFTSESDSIADSSKLESVDTSAVEPEVVAAESGSEPKDVEKANGLEKGMTYAEVIKAASAVADNGTKEEESVLGGIVDDAEEGVKLNNKGDFVVDSSAIEAVNVDVAKPGVVVVGDVEVSEVLETDGNIPDVHNKFDPIGQGEGGEVELESDKATEEGGGKLVSEGDSMVDSSVVDSVDADINVAEPGVVVVGAAKEAVIKEDDKDDEVDKTISNIEEPDDLTAAYDGNFELAVKEISEAAKVEPDEPKVGVEVEELPVSESLKVGSVDAEEDSIPAAESQFEVRKVVEGDSAEEDENKLPVEDIVSSREFSFGGKEVDQEPSGEGVTRVDGSESEEETEEMIFGSSEAAKQFLAELEKASSGIEAHSDEANISNNMSDRIDGQIVTDSDEDVDTEDEGEEKMFDTAALAALLKAATGGGSSEGGNFTITSQDGTKLFSMDRPAGLSSSLRPLKPAAAPRANRSNIFSNSNVTMADETEINLSEEEKQKLEKLQSLRVKFLRLLQRLGHSAEDSIAAQVLYRLALLAGRQAGQLFSLDAAKKKAVESEAEGNEELIFSLNILVLGKAGVGKSATINSILGNQIASIDAFGLSTTSVREISGTVNGVKITFIDTPGLKSAAMDQSTNAKMLSSVKKVMKKCPPDIVLYVDRLDTQTRDLNNLPLLRTITASLGTSIWKNAIVTLTHAASAPPDGPSGTPLSYDVFVAQCSHIVQQSIGQAVGDLRLMNPSLMNPVSLVENHPLCRKNREGVKVLPNGQTWRSQLLLLCYSLKVLSETNSLLRPQEPLDHRKVFGFRVRSPPLPYLLSWLLQSRAHPKLPGDQGGDSVDSDIEIDDVSDSEQEDGEDDEYDQLPPFKPLRKTQLAKLSNEQRKAYFEEYDYRVKLLQKKQWREELKRMKEMKKNGKKLGESEFGYPGEEDDPENGAPAAVPVPLPDMVLPPSFDSDNSAYRYRYLEPTSQLLTRPVLDTHGWDHDCGYDGVNAEHSLALASRFPATATVQVTKDKKEFNIHLDSSVSAKHGENGSTMAGFDIQNVGKQLAYVVRGETKFKNLRKNKTTVGGSVTFLGENIATGVKLEDQIALGKRLVLVGSTGTMRSQGDSAYGANLEVRLREADFPIGQDQSSFGLSLVKWRGDLALGANLQSQVSVGRNSKIALRAGLNNKMSGQITVRTSSSDQLQIALTAILPIAMSIYKSIRPEATNDKYSMY |
| 2426 | sp|Q99MV1|TDRD1\_MOUSE | MMPRNNLEASTCKMAEPFNFEKKESKPPPQDPLRSPVAQHNHPTFRLKSPENGNTKNNFLLCEQNKQYLASQEDSSVVSSNPAVVNGEVGGSKGDRKPPPTGNPVSPLSLGNSSPPNQVKTKPSSNVTPEKSKKSHKLFENALSVNNPALFNSLGPPLRSTTCHRCGLFGSLRCSQCKQTYYCSTACQRRDWSSHSTICRPVQQSLNKLEDNKSPFETKAIEVKSEVDCPPGVTKEITAGAERVMFSDLRSLQLKKTMEIKGTVTEFKHPSNFYIQLYSSEVLENMNQLSTSLKETYANVVPEDGYLPVKGEVCVAKYTVDQTWNRAIVQAVDVLQRKAHVLYIDYGNEEMIPIDSVHPLSRGLDLFPPSAIKCCVSGVIPTAGEWSEGCVAAVKALLFEQFCSVKVMDILEEEVLTCAVDLVLQSSGKQLDHVLVEMGYGVKPGEQSSTEQSVDHSALEDVGRVTVESKIVTDRNALIPKVLTLNVGDEFCGVVAHIQTPEDFFCQQLQSGHKLAELQESLSEYCGHVIPRSDFYPTIGDVCCAQFSEDDQWYRASVLAYASEESVLVGYVDYGNFEILSLKRLCPIIPKLLDLPMQALNCVLAGVKPSLGIWTPEAVCVMKEMVQNRMVTVRVVGMLGTRALVELIDKSVAPHVSASKALIDSGFAIKEKDVADKGSSMHTASVPLAIEGPAEALEWTWVEFTVDETVDVVVCMMYSPGEFYCHFLKDDALEKLDDLNQSLADYCAQKPPNGFKAEIGRPCCAFFSGDGNWYRALVKEILPSGNVKVHFVDYGNVEEVTTDQLQAILPQFLLLPFQGMQCWLVDIQPPNKHWTKEATARFQACVVGLKLQARVVEITANGVGVELTDLSTPYPKIISDVLIREQLVLRCGSPQDSLMSRPANQHKQIDSHRVQASPSAEQWKTMELPVNKTIAANVLEIISPALFYAIPSEMSENQEKLCVLAAELLEHCNAQKGQPAYRPRTGDACCAKYTNDDFWYRAIVLETSESDVKVLYADYGNIETLPLSRVQPIPASHLELPFQIIRCSLEGPMELNGSCSQLVMELLRNAMLNQSVVLSVKAISKNVHAVSVEKCSENGMINIAENLVMCGLAENLTSKRKSASTKEIPHSRDCCCTELQKQIEKHEQILLFLLNNPTNQSKFTEMKKLLRS |
| 2427 | sp|Q8NBD8|T229B\_HUMAN | MASAEPLTALSRWYLYAIHGYFCEVMFTAAWEFVVNLNWKFPGVTSVWALFIYGTSILIVERMYLRLRGRCPLLLRCLIYTLWTYLWEFTTGFILRQFNACPWDYSQFDFDFMGLITLEYAVPWFCGALIMEQFIIRNTLRLRFDKDAEPGEPSGALALANGHVKTD |
| 2428 | sp|P49368|TCPG\_HUMAN | MMGHRPVLVLSQNTKRESGRKVQSGNINAAKTIADIIRTCLGPKSMMKMLLDPMGGIVMTNDGNAILREIQVQHPAAKSMIEISRTQDEEVGDGTTSVIILAGEMLSVAEHFLEQQMHPTVVISAYRKALDDMISTLKKISIPVDISDSDMMLNIINSSITTKAISRWSSLACNIALDAVKMVQFEENGRKEIDIKKYARVEKIPGGIIEDSCVLRGVMINKDVTHPRMRRYIKNPRIVLLDSSLEYKKGESQTDIEITREEDFTRILQMEEEYIQQLCEDIIQLKPDVVITEKGISDLAQHYLMRANITAIRRVRKTDNNRIARACGARIVSRPEELREDDVGTGAGLLEIKKIGDEYFTFITDCKDPKACTILLRGASKEILSEVERNLQDAMQVCRNVLLDPQLVPGGGASEMAVAHALTEKSKAMTGVEQWPYRAVAQALEVIPRTLIQNCGASTIRLLTSLRAKHTQENCETWGVNGETGTLVDMKELGIWEPLAVKLQTYKTAVETAVLLLRIDDIVSGHKKKGDDQSRQGGAPDAGQE |
| 2429 | sp|Q8TDW5|SYTL5\_HUMAN | MSKNSEFINLSFLLDHEKEMILGVLKRDEYLKKVEDKRIRKLKNELLEAKRRSGKTQQEASRVCVHCHRNLGLIFDRGDPCQACSLRVCRECRVAGPNGSWKCTVCDKIAQLRIITGEWFFEEKAKRFKQVNVLGTDVVRQSILRRSPGAEEVQSQEQTRQDAEKSDTSPVAGKKASHDGPKRKGFLLSKFRSATRGEIITPKTDTGRSYSLDLDGQHFRSLKSPPGSDRGSTGSSDLNDQEPGPRTPKSSRSNGVTPGTQSSPAPSTRTVTSVISREYGFENSMDLAAIEGTSQELTKSHRRNTSGTPSIAVSGTSLSSDQSRSELDLSESFTEDSEDTVSIRSKSVPGALDKDSLEETEESIDALVSSQLSTNTHRLASGLSTTSLNSMMSVYSETGDYGNVKVSGEILLHISYCYKTGGLYIFVKNCRNLAIGDEKKQRTDAYVKSYLLPDKSRNNKRKTKIRTGTNPEFNETLKYTISHTQLETRTLQLSVWHYDRFGRNSFLGEVEIPFDSWNFENPTDEWFVLQPKVEFAPDIGLQYKGELTVVLRYIPPEENLMLPPEQLQGNKTFKKGKKKESPVISGGILEVFIKEAKNLTAVKSGGTSDSFVKGYLLPDDSKATKHKTLVIKKSVNPQWNHTFMFSGIHPQDIKNVCLELTIWDKEAFSSNIFLGGVRLNSGSGVSHGKNVDWMDSQGEEQRLWQKMANNPGTPFEGVLMLRSSMGKCRL |
| 2430 | sp|P38129|TAF5\_YEAST | MSQKQSTNQNQNGTHQPQPVKNQRTNNAAGANSGQQPQQQSQGQSQQQGRSNGPFSASDLNRIVLEYLNKKGYHRTEAMLRAESGRTLTPQNKQSPANTKTGKFPEQSSIPPNPGKTAKPISNPTNLSSKRDAEGGIVSSGRLEGLNAPENYIRAYSMLKNWVDSSLEIYKPELSYIMYPIFIYLFLNLVAKNPVYARRFFDRFSPDFKDFHGSEINRLFSVNSIDHIKENEVASAFQSHKYRITMSKTTLNLLLYFLNENESIGGSLIISVINQHLDPNIVESVTAREKLADGIKVLSDSENGNGKQNLEMNSVPVKLGPFPKDEEFVKEIETELKIKDDQEKQLNQQTAGDNYSGANNRTLLQEYKAMNNEKFKDNTGDDDKDKIKDKIAKDEEKKESELKVDGEKKDSNLSSPARDILPLPPKTALDLKLEIQKVKESRDAIKLDNLQLALPSVCMYTFQNTNKDMSCLDFSDDCRIAAAGFQDSYIKIWSLDGSSLNNPNIALNNNDKDEDPTCKTLVGHSGTVYSTSFSPDNKYLLSGSEDKTVRLWSMDTHTALVSYKGHNHPVWDVSFSPLGHYFATASHDQTARLWSCDHIYPLRIFAGHLNDVDCVSFHPNGCYVFTGSSDKTCRMWDVSTGDSVRLFLGHTAPVISIAVCPDGRWLSTGSEDGIINVWDIGTGKRLKQMRGHGKNAIYSLSYSKEGNVLISGGADHTVRVWDLKKATTEPSAEPDEPFIGYLGDVTASINQDIKEYGRRRTVIPTSDLVASFYTKKTPVFKVKFSRSNLALAGGAFRP |
| 2431 | sp|O95359|TACC2\_HUMAN | MGNENSTSDNQRTLSAQTPRSAQPPGNSQNIKRKQQDTPGSPDHRDASSIGSVGLGGFCTASESSASLDPCLVSPEVTEPRKDPQGARGPEGSLLPSPPPSQEREHPSSSMPFAECPPEGCLASPAAAPEDGPQTQSPRREPAPNAPGDIAAAFPAERDSSTPYQEIAAVPSAGRERQPKEEGQKSSFSFSSGIDQSPGMSPVPLREPMKAPLCGEGDQPGGFESQEKEAAGGFPPAESRQGVASVQVTPEAPAAAQQGTESSAVLEKSPLKPMAPIPQDPAPRASDRERGQGEAPPQYLTDDLEFLRACHLPRSNSGAAPEAEVNAASQESCQQPVGAYLPHAELPWGLPSPALVPEAGGSGKEALDTIDVQGHPQTGMRGTKPNQVVCVAAGGQPEGGLPVSPEPSLLTPTEEAHPASSLASFPAAQIPIAVEEPGSSSRESVSKAGMPVSADAAKEVVDAGLVGLERQVSDLGSKGEHPEGDPGEVPAPSPQERGEHLNTEQSHEVQPGVPPPPLPKEQSHEVQPGAPPPPLPKAPSESARGPPGPTDGAKVHEDSTSPAVAKEGSRSPGDSPGGKEEAPEPPDGGDPGNLQGEDSQAFSSKRDPEVGKDELSKPSSDAESRDHPSSHSAQPPRKGGAGHTDGPHSQTAEADASGLPHKLGEEDPVLPPVPDGAGEPTVPEGAIWEGSGLQPKCPDTLQSREGLGRMESFLTLESEKSDFPPTPVAEVAPKAQEGESTLEIRKMGSCDGEGLLTSPDQPRGPACDASRQEFHAGVPHPPQGENLAADLGLTALILDQDQQGIPSCPGEGWIRGAASEWPLLSSEKHLQPSQAQPETSIFDVLKEQAQPPENGKETSPSHPGFKDQGADSSQIHVPVEPQEDNNLPTHGGQEQALGSELQSQLPKGTLSDTPTSSPTDMVWESSLTEESELSAPTRQKLPALGEKRPEGACGDGQSSRVSPPAADVLKDFSLAGNFSRKETCCTGQGPNKSQQALADALEEGSQHEEACQRHPGASEAADGCSPLWGLSKREMASGNTGEAPPCQPDSVALLDAVPCLPALAPASPGVTPTQDAPETEACDETQEGRQQPVPAPQQKMECWATSDAESPKLLASFPSAGEQGGEAGAAETGGSAGAGDPGKQQAPEKPGEATLSCGLLQTEHCLTSGEEASTSALRESCQAEHPMASCQDALLPARELGGIPRSTMDFSTHQAVPDPKELLLSGPPEVAAPDTPYLHVDSAAQRGAEDSGVKAVSSADPRAPGESPCPVGEPPLALENAASLKLFAGSLAPLLQPGAAGGEIPAVQASSGSPKARTTEGPVDSMPCLDRMPLLAKGKQATGEEKAATAPGAGAKASGEGMAGDAAGETEGSMERMGEPSQDPKQGTSGGVDTSSEQIATLTGFPDFREHIAKIFEKPVLGALATPGEKAGAGRSAVGKDLTRPLGPEKLLDGPPGVDVTLLPAPPARLQVEKKQQLAGEAEISHLALQDPASDKLLGPAGLTWERNLPGAGVGKEMAGVPPTLREDERPEGPGAAWPGLEGQAYSQLERSRQELASGLPSPAATQELPVERAAAFQVAPHSHGEEAVAQDRIPSGKQHQETSACDSPHGEDGPGDFAHTGVPGHVPRSTCAPSPQREVLTVPEANSEPWTLDTLGGERRPGVTAGILEMRNALGNQSTPAPPTGEVADTPLEPGKVAGAAGEAEGDITLSTAETQACASGDLPEAGTTRTFSVVAGDLVLPGSCQDPACSDKAPGMEGTAALHGDSPARPQQAKEQPGPERPIPAGDGKVCVSSPPEPDETHDPKLQHLAPEELHTDRESPRPGPSMLPSVPKKDAPRVMDKVTSDETRGAEGTESSPVADDIIQPAAPADLESPTLAASSYHGDVVGQVSTDLIAQSISPAAAHAGLPPSAAEHIVSPSAPAGDRVEASTPSCPDPAKDLSRSSDSEEAFETPESTTPVKAPPAPPPPPPEVIPEPEVSTQPPPEEPGCGSETVPVPDGPRSDSVEGSPFRPPSHSFSAVFDEDKPIASSGTYNLDFDNIELVDTFQTLEPRASDAKNQEGKVNTRRKSTDSVPISKSTLSRSLSLQASDFDGASSSGNPEAVALAPDAYSTGSSSASSTLKRTKKPRPPSLKKKQTTKKPTETPPVKETQQEPDEESLVPSGENLASETKTESAKTEGPSPALLEETPLEPAVGPKAACPLDSESAEGVVPPASGGGRVQNSPPVGRKTLPLTTAPEAGEVTPSDSGGQEDSPAKGLSVRLEFDYSEDKSSWDNQQENPPPTKKIGKKPVAKMPLRRPKMKKTPEKLDNTPASPPRSPAEPNDIPIAKGTYTFDIDKWDDPNFNPFSSTSKMQESPKLPQQSYNFDPDTCDESVDPFKTSSKTPSSPSKSPASFEIPASAMEANGVDGDGLNKPAKKKKTPLKTDTFRVKKSPKRSPLSDPPSQDPTPAATPETPPVISAVVHATDEEKLAVTNQKWTCMTVDLEADKQDYPQPSDLSTFVNETKFSSPTEELDYRNSYEIEYMEKIGSSLPQDDDAPKKQALYLMFDTSQESPVKSSPVRMSESPTPCSGSSFEETEALVNTAAKNQHPVPRGLAPNQESHLQVPEKSSQKELEAMGLGTPSEAIEITAPEGSFASADALLSRLAHPVSLCGALDYLEPDLAEKNPPLFAQKLQEELEFAIMRIEALKLARQIALASRSHQDAKREAAHPTDVSISKTALYSRIGTAEVEKPAGLLFQQPDLDSALQIARAEIITKEREVSEWKDKYEESRREVMEMRKIVAEYEKTIAQMIEDEQREKSVSHQTVQQLVLEKEQALADLNSVEKSLADLFRRYEKMKEVLEGFRKNEEVLKRCAQEYLSRVKKEEQRYQALKVHAEEKLDRANAEIAQVRGKAQQEQAAHQASLRKEQLRVDALERTLEQKNKEIEELTKICDELIAKMGKS |
| 2432 | sp|P38558|TBG2\_ARATH | MPREIITLQVGQCGNQIGMEFWKQLCLEHGISKDGILEDFATQGGDRKDVFFYQADDQHYIPRALLIDLEPRVINGIQNGEYRNLYNHENIFLSDHGGGAGNNWASGYHQGKGVEEEIMDMIDREADGSDSLEGFVLCHSIAGGTGSGMGSYLLETLNDRYSKKLVQTYSVFPNQMETSDVVVQPYNSLLTLKRLTLNADCVVVLDNTALNRIAVERLHLTNPTFAQTNSLVSTVMSASTTTLRYPGYMNNDLVGLLASLIPTPRCHFLMTGYTPLTVERQANVIRKTTVLDVMRRLLQTKNIMVSSYARNKEASQAKYISILNIIQGEVDPTQVHESLQRIRERKLVNFIDWGPASIQVALSKKSPYVQTSHRVSGLMLASHTSIRHLFSRCLSQYDKLRKKQAFLDNYRKFPMFADNDLSEFDESRDIIESLVDEYKACESPDYIKWGMEDPGQLMTGEGNASGVADPKLAF |
| 2433 | sp|O95935|TBX18\_HUMAN | MAEKRRGSPCSMLSLKAHAFSVEALIGAEKQQQLQKKRRKLGAEEAAGAVDDGGCSRGGGAGEKGSSEGDEGAALPPPAGATSGPARSGADLERGAAGGCEDGFQQGASPLASPGGSPKGSPARSLARPGTPLPSPQAPRVDLQGAELWKRFHEIGTEMIITKAGRRMFPAMRVKISGLDPHQQYYIAMDIVPVDNKRYRYVYHSSKWMVAGNADSPVPPRVYIHPDSPASGETWMRQVISFDKLKLTNNELDDQGHIILHSMHKYQPRVHVIRKDCGDDLSPIKPVPSGEGVKAFSFPETVFTTVTAYQNQQITRLKIDRNPFAKGFRDSGRNRMGLEALVESYAFWRPSLRTLTFEDIPGIPKQGNASSSTLLQGTGNGVPATHPHLLSGSSCSSPAFHLGPNTSQLCSLAPADYSACARSGLTLNRYSTSLAETYNRLTNQAGETFAPPRTPSYVGVSSSTSVNMSMGGTDGDTFSCPQTSLSMQISGMSPQLQYIMPSPSSNAFATNQTHQGSYNTFRLHSPCALYGYNFSTSPKLAASPEKIVSSQGSFLGSSPSGTMTDRQMLPPVEGVHLLSSGGQQSFFDSRTLGSLTLSSSQVSAHMV |
| 2434 | sp|Q41963|TIP12\_ARATH | MPTRNIAIGGVQEEVYHPNALRAALAEFISTLIFVFAGSGSGIAFNKITDNGATTPSGLVAAALAHAFGLFVAVSVGANISGGHVNPAVTFGVLLGGNITLLRGILYWIAQLLGSVAACFLLSFATGGEPIPAFGLSAGVGSLNALVFEIVMTFGLVYTVYATAVDPKNGSLGTIAPIAIGFIVGANILAGGAFSGASMNPAVAFGPAVVSWTWTNHWVYWAGPLIGGGLAGIIYDFVFIDENAHEQLPTTDY |
| 2435 | sp|P21775|THIKA\_RAT | MHRLQVVLGHLAGRPESSSALQAAPCSATFPQASASDVVVVHGRRTPIGRAGRGGFKDTTPDELLSAVLTAVLQDVKLKPECLGDISVGNVLEPGAGAVMARIAQFLSGIPETVPLSAVNRQCSSGLQAVANIAGGIRNGSYDIGMACGVESMSLSNRGNPGNISSRLLESDKARDCLIPMGITSENVAERFGISRQKQDAFALASQQKAASAQSKGCFRAEIVPVTTTVLDDKGDRKTITVSQDEGVRPSTTMEGLAKLKPAFKDGGSTTAGNSSQVSDGAAAVLLARRSKAEELGLPILGVLRSYAVVGVPPDIMGIGPAYAIPAALQKAGLTVNDIDIFEINEAFASQALYCVEKLGIPAEKVNPLGGAIALGHPLGCTGARQVVTLLNELKRRGRRAYGVVSMCIGTGMGAAAVFEYPGN |
| 2436 | sp|Q80UF7|TCAM1\_MOUSE | MDNPGPSLRGAFGILGALERDRLTHLKHKLGSLCSGSQESKLLHAMVLLALGQDTEARVSLESLKMNTVAQLVAHQWADMETTEGPEEPPDLSWTVARLYHLLAEENLCPASTRDMAYQVALRDFASQGDHQLGQLQNEAWDRCSSDIKGDPSGFQPLHSHQGSLQPPSASPAVTRSQPRPIDTPDWSWGHTLHSTNSTASLASHLEISQSPTLAFLSSHHGTHGPSKLCNTPLDTQEPQLVPEGCQEPEEISWPPSVETSVSLGLPHEISVPEVSPEEASPILPDALAAPDTSVHCPIECTELSTNSRSPLTSTTESVGKQWPITSQRSPQVPVGDDSLQNTTSSSPPAQPPSLQASPKLPPSPLSSASSPSSYPAPPTSTSPVLDHSETSDQKFYNFVVIHARADEQVALRIREKLETLGVPDGATFCEEFQVPGRGELHCLQDAIDHSGFTILLLTASFDCSLSLHQINHALMNSLTQSGRQDCVIPLLPLECSQAQLSPDTTRLLHSIVWLDEHSPIFARKVANTFKTQKLQAQRVRWKKAQEARTLKEQSIQLEAERQNVAAISAAYTAYVHSYRAWQAEMNKLGVAFGKNLSLGTPTPSWPGCPQPIPSHPQGGTPVFPYSPQPPSFPQPPCFPQPPSFPQPPSFPLPPVSSPQSQSFPSASSPAPQTPGPQPLIIHHAQMVQLGVNNHMWGHTGAQSSDDKTECSENPCMGPLTDQGEPLLETPE |
| 2437 | sp|P28289|TMOD1\_HUMAN | MSYRRELEKYRDLDEDEILGALTEEELRTLENELDELDPDNALLPAGLRQKDQTTKAPTGPFKREELLDHLEKQAKEFKDREDLVPYTGEKRGKVWVPKQKPLDPVLESVTLEPELEEALANASDAELCDIAAILGMHTLMSNQQYYQALSSSSIMNKEGLNSVIKPTQYKPVPDEEPNSTDVEETLERIKNNDPKLEEVNLNNIRNIPIPTLKAYAEALKENSYVKKFSIVGTRSNDPVAYALAEMLKENKVLKTLNVESNFISGAGILRLVEALPYNTSLVEMKIDNQSQPLGNKVEMEIVSMLEKNATLLKFGYHFTQQGPRLRASNAMMNNNDLVRKRRLADLTGPIIPKCRSGV |
| 2438 | sp|Q64127|TIF1A\_MOUSE | MEVAVEKAAAAAAPAGGPAAAAPSGENEAESRQGPDSESGGEASRLNLLDTCAVCHQNIQSRVPKLLPCLHSFCQRCLPAPQRYLMLTAPALGSAETPPPAPAPAPAPGSPAGGPSPFATQVGVIRCPVCSQECAERHIIDNFFVKDTTEVPSSTVEKSNQVCTSCEDNAEANGFCVECVEWLCKTCIRAHQRVKFTKDHTVRQKEEVSPEAVGVTSQRPVFCPFHKKEQLKLYCETCDKLTCRDCQLLEHKEHRYQFIEEAFQNQKVIIDTLITKLMEKTKYIKYTGNQIQNRIIEINQNQKQVEQDIKVAIFTLMVEINKKGKALLHQLESLAKDHRMKLMQQQQEVAGLSKQLEHVMHFSKWAVSSGSSTALLYSKRLITYRLRHLLRARCDASPVTNTTIQFHCDPSFWAQNIINLGSLVIEDKESQPQMPKQNPVVEQSSQPPGGLPSNQLSKFPTQISLAQLRLQHIQQQVMAQRQQVQRRPAPVGLPNPRMQGPIQQPSISHQHPPPRLINFQNHSPKPNGPVLPPYPQQLRYSPSQNVPRQTTIKPNPLQMAFLAQQAIKQWQISSVQAPPTTASSSSSTPSSPTITSAAGYDGKAFSSPMIDLSAPVGGSYNLPSLPDIDCSSTIMLDNIARKDTGVDHAQPRPPSNRTVQSPNSSVPSPGLAGPVTMTSVHPPIRSPSASSVGSRGSSGSSSKPAGADSTHKVPVVMLEPIRIKQENSGPPENYDFPVVIVKQESDEESRPQNTNYPRSILTSLLLNSSQSSASEETVLRSDAPDSTGDQPGLHQENSSNGKSEWSDASQKSPVHVGETRKEDDPNEDWCAVCQNGGELLCCEKCPKVFHLTCHVPTLTNFPSGEWICTFCRDLSKPEVDYDCDVPSHHSEKRKSEGLTKLTPIDKRKCERLLLFLYCHEMSLAFQDPVPLTVPDYYKIIKNPMDLSTIKKRLQEDYCMYTKPEDFVADFRLIFQNCAEFNEPDSEVANAGIKLESYFEELLKNLYPEKRFPKVEFRHEAEDCKFSDDSDDDFVQPRKKRLKSTEDRQLLK |
| 2439 | sp|Q9BYE2|TMPSD\_HUMAN | MERDSHGNASPARTPSAGASPAQASPAGTPPGRASPAQASPAQASPAGTPPGRASPAQASPAGTPPGRASPGRASPAQASPAQASPARASPALASLSRSSSGRSSSARSASVTTSPTRVYLVRATPVGAVPIRSSPARSAPATRATRESPGTSLPKFTWREGQKQLPLIGCVLLLIALVVSLIILFQFWQGHTGIRYKEQRESCPKHAVRCDGVVDCKLKSDELGCVRFDWDKSLLKIYSGSSHQWLPICSSNWNDSYSEKTCQQLGFESAHRTTEVAHRDFANSFSILRYNSTIQESLHRSECPSQRYISLQCSHCGLRAMTGRIVGGALASDSKWPWQVSLHFGTTHICGGTLIDAQWVLTAAHCFFVTREKVLEGWKVYAGTSNLHQLPEAASIAEIIINSNYTDEEDDYDIALMRLSKPLTLSAHIHPACLPMHGQTFSLNETCWITGFGKTRETDDKTSPFLREVQVNLIDFKKCNDYLVYDSYLTPRMMCAGDLRGGRDSCQGDSGGPLVCEQNNRWYLAGVTSWGTGCGQRNKPGVYTKVTEVLPWIYSKMEVRSLQQDTAPSRLGTSSGGDPGGAPRL |
| 2440 | sp|Q8L4R0|TGD1\_ARATH | MMQTCCIHQSFCFPHRVFPRFDASIGIKPPKLCQVGFIGKTQSYGISSPIRQRRLYVNLNANDGHPSMSMLEEETSTENNAPSQEAELPFSKWSPSKYIWRGLSVPIIAGQVVLRILKGKIHWRNTLQQLERTGPKSLGVCLLTSTFVGMAFTIQFVREFTRLGLNRSIGGVLALAFSRELSPVITSIVVAGRMGSAFAAELGTMQVSEQTDTLRVLGADPIDYLITPRVIASCLALPFLTLMCFTVGMASSALLSDAVYGISINIIMDSAHRALRPWDIVSAMIKSQVFGAIISVISCSWGVTTTGGAKGVGESTTSAVVMSLVGIFIADFVLSSFFFQGAGDSLKNCV |
| 2441 | sp|Q9D1D4|TMEDA\_MOUSE | MSGLFGPLSRPGPLPSAWLFLLLLGPSSVLGISFHLPVNSRKCLREEIHKDLLVTGAYEITDQSGGAGGLRTHLKITDSAGHILYAKEDATKGKFAFTTEDYDMFEVCFESKGTGRIPDQLVILDMKHGVEAKNYEEIAKVEKLKPLEVELRRLEDLSESIVNDFAYMKKREEEMRDTNESTNTRVLYFSIFSMFCLIGLATWQVFYLRRFFKAKKLIE |
| 2442 | sp|P30138|THIF\_ECOLI | MNDRDFMRYSRQILLDDIALDGQQKLLDSQVLIIGLGGLGTPAALYLAGAGVGTLVLADDDDVHLSNLQRQILFTTEDIDRPKSQVSQQRLTQLNPDIQLTALQQRLTGEALKDAVARADVVLDCTDNMATRQEINAACVALNTPLITASAVGFGGQLMVLTPPWEQGCYRCLWPDNQEPERNCRTAGVVGPVVGVMGTLQALEAIKLLSGIETPAGELRLFDGKSSQWRSLALRRASGCPVCGGSNADPV |
| 2443 | sp|Q38814|THI4\_ARATH | MAAIASTLSLSSTKPQRLFDSSFHGSAISAAPISIGLKPRSFSVRATTAGYDLNAFTFDPIKESIVSREMTRRYMTDMITYAETDVVVVGAGSAGLSAAYEISKNPNVQVAIIEQSVSPGGGAWLGGQLFSAMIVRKPAHLFLDEIGVAYDEQDTYVVVKHAALFTSTIMSKLLARPNVKLFNAVAAEDLIVKGNRVGGVVTNWALVAQNHHTQSCMDPNVMEAKIVVSSCGHDGPFGATGVKRLKSIGMIDHVPGMKALDMNTAEDAIVRLTREVVPGMIVTGMEVAEIDGAPRMGPTFGAMMISGQKAGQLALKALGLPNAIDGTLVGNLSPELVLAAADSAETVDA |
| 2444 | sp|P80204|TGFR1\_RAT | MEAASAALRRCLLLIVLVAAATLLPGAKALQCFCHLCTKDNFTCETDGLCFVSVTETTDKVIHNSMCIAEIDLIPRDRPFVCAPSSKTGAVTYCCNQDHCNKIELPTTGPFSEKQSAGLGPVELAAVIAGPVCFVCIALMLMVYICHNRTVIHHRVPNEEDPSLDRPFISEGTTLKDLIYDMTTSGSGSGLPLLVQRTIARTIVLQESIGKGRFGEVWRGKWRGEEVAVKIFSSREERSWFREAEIYQTVMLRHENILGFIAADNKDNGTWTQLWLVSDYHEHGSLFDYLNRYTVTVEGMIKLALSTASGLAHLHMEIVGTQGKPAIAHRDLKSKNILVKKNGTCCIADLGLAVRHDSATDTIDIAPNHRVGTKRYMAPEVLDDSINMKHFESFKRADIYAMGLVFWEIARRCSIGGIHEDYQLPYYDLVPSDPSVEEMRKVVCEQKLRPNIPNRWQSCEALRVMAKIMRECWYANGAARLTALRIKKTLSQLSQQEGIKM |
| 2445 | sp|P21981|TGM2\_MOUSE | MAEELLLERCDLEIQANGRDHHTADLCQEKLVLRRGQRFRLTLYFEGRGYEASVDSLTFGAVTGPDPSEEAGTKARFSLSDNVEEGSWSASVLDQQDNVLSLQLCTPANAPIGLYRLSLEASTGYQGSSFVLGHFILLYNAWCPADDVYLDSEEERREYVLTQQGFIYQGSVKFIKSVPWNFGQFEDGILDTCLMLLDMNPKFLKNRSRDCSRRSSPIYVGRVVSAMVNCNDDQGVLLGRWDNNYGDGISPMAWIGSVDILRRWKEHGCQQVKYGQCWVFAAVACTVLRCLGIPTRVVTNYNSAHDQNSNLLIEYFRNEFGELESNKSEMIWNFHCWVESWMTRPDLQPGYEGWQAIDPTPQEKSEGTYCCGPVSVRAIKEGDLSTKYDAPFVFAEVNADVVDWIRQEDGSVLKSINRSLVVGQKISTKSVGRDDREDITHTYKYPEGSPEEREVFTKANHLNKLAEKEETGVAMRIRVGDSMSMGNDFDVFAHIGNDTSETRECRLLLCARTVSYNGVLGPECGTEDINLTLDPYSENSIPLRILYEKYSGCLTESNLIKVRGLLIEPAANSYLLAERDLYLENPEIKIRVLGEPKQNRKLVAEVSLKNPLSDPLYDCIFTVEGAGLTKEQKSVEVSDPVPAGDLVKARVDLFPTDIGLHKLVVNFQCDKLKSVKGYRNVIIGPA |
| 2446 | sp|P38793|TRM5\_YEAST | MKIALPVFQKFNRLISSCKMSGVFPYNPPVNRQMRELDRSFFITKIPMCAVKFPEPKNISVFSKNFKNCILRVPRIPHVVKLNSSKPKDELTSVQNKKLKTADGNNTPVTKGVLLHESIHSVEDAYGKLPEDALAFLKENSAEIVPHEYVLDYDFWKAEEILRAVLPEQFLEEVPTGFTITGHIAHLNLRTEFKPFDSLIGQVILDKNNKIECVVDKVSSIATQFRTFPMKVIAGKSDSLVVEQKESNCTFKFDFSKVYWNSRLHTEHERLVKQYFQPGQVVCDVFAGVGPFAVPAGKKDVIVLANDLNPESYKYLKENIALNKVAKTVKSFNMDGADFIRQSPQLLQQWIQDEEGGKITIPLPLKKRHRSQQHNDQQPPQPRTKELIIPSHISHYVMNLPDSAISFLGNFRGIFAAHTKGATDTIQMPWVHVHCFEKYPPGDQVTEDELHARVHARIIAALKVTADDLPLNAVSLHLVRKVAPTKPMYCASFQLPANV |
| 2447 | sp|Q921I1|TRFE\_MOUSE | MRLTVGALLACAALGLCLAVPDKTVKWCAVSEHENTKCISFRDHMKTVLPPDGPRLACVKKTSYPDCIKAISASEADAMTLDGGWVYDAGLTPNNLKPVAAEFYGSVEHPQTYYYAVAVVKKGTDFQLNQLEGKKSCHTGLGRSAGWVIPIGLLFCKLSEPRSPLEKAVSSFFSGSCVPCADPVAFPKLCQLCPGCGCSSTQPFFGYVGAFKCLKDGGGDVAFVKHTTIFEVLPEKADRDQYELLCLDNTRKPVDQYEDCYLARIPSHAVVARKNNGKEDLIWEILKVAQEHFGKGKSKDFQLFSSPLGKDLLFKDSAFGLLRVPPRMDYRLYLGHNYVTAIRNQQEGVCPEGSIDNSPVKWCALSHLERTKCDEWSIISEGKIECESAETTEDCIEKIVNGEADAMTLDGGHAYIAGQCGLVPVMAEYYESSNCAIPSQQGIFPKGYYAVAVVKASDTSITWNNLKGKKSCHTGVDRTAGWNIPMGMLYNRINHCKFDEFFSQGCAPGYEKNSTLCDLCIGPLKCAPNNKEEYNGYTGAFRCLVEKGDVAFVKHQTVLDNTEGKNPAEWAKNLKQEDFELLCPDGTRKPVKDFASCHLAQAPNHVVVSRKEKAARVKAVLTSQETLFGGSDCTGNFCLFKSTTKDLLFRDDTKCFVKLPEGTTPEKYLGAEYMQSVGNMRKCSTSRLLEACTFHKH |
| 2448 | sp|Q9JKE1|TREM3\_MOUSE | MSPLLLWLGLMLCVSGLQAGDEEEHKCFLEGENLTLTCPYNIMLYSLSLKAWQRVRSHGSPETLVLTNTRKADFNVARAGKYLLEDYPTESVVKVTVTGLQRQDVGLYQCVVYLSPDNVIILRQRIRLAWCQGKPVMVIVLTCGFILNKGLVFSVLFVFLCKAGPKVLQPSKTSKVQGVSEKQ |
| 2449 | sp|P04692|TPM1\_RAT | MDAIKKKMQMLKLDKENALDRAEQAEADKKAAEDRSKQLEDELVSLQKKLKGTEDELDKYSEALKDAQEKLELAEKKATDAEADVASLNRRIQLVEEELDRAQERLATALQKLEEAEKAADESERGMKVIESRAQKDEEKMEIQEIQLKEAKHIAEDADRKYEEVARKLVIIESDLERAEERAELSEGKCAELEEELKTVTNNLKSLEAQAEKYSQKEDKYEEEIKVLSDKLKEAETRAEFAERSVTKLEKSIDDLEDELYAQKLKYKAISEELDHALNDMTSI |
| 2450 | sp|Q9Y296|TPPC4\_HUMAN | MAIFSVYVVNKAGGLIYQLDSYAPRAEAEKTFSYPLDLLLKLHDERVLVAFGQRDGIRVGHAVLAINGMDVNGRYTADGKEVLEYLGNPANYPVSIRFGRPRLTSNEKLMLASMFHSLFAIGSQLSPEQGSSGIEMLETDTFKLHCYQTLTGIKFVVLADPRQAGIDSLLRKIYEIYSDFALKNPFYSLEMPIRCELFDQNLKLALEVAEKAGTFGPGS |
| 2451 | sp|P19637|TPA\_RAT | MKGELLCVLLLCGVAFTLPDQGIHRRFRRGARSYRATCRDEQTQTTYQQHQSWLRPMLRGNRVEYCRCNSGLAQCHSVPVRSCSEPRCFNGGTCQQALYFSDFVCQCPDGFVGKRCDIDTRATCFEGQGITYRGTWSTAENGAECINWNSSALSQKPYSARRPNAIKLGLGNHNYCRNPDRDVKPWCYVFKAGKYTTEFCSTPACPKGPTEDCYVGKGVTYRGTHSFTTSKASCLPWNSMILIGKTYTAWRANSQALGLGRHNYCRNPDGDAKPWCHVMKDRKLTWEYCDMSPCSTCGLRQYKQPQFRIKGGLFTDITSHPWQAAIFVKNKRSPGERFLCGGVLISSCWVLSAAHCFVERFPPHHLKVVLGRTYRVVPGEEEQTFEIEKYIVHKEFDDDTYDNDIALLQLRSDSSQCAQESSSVGTACLPDPDVQLPDWTECELSGYGKHEASSPFFSDRLKEAHVRLYPSSRCTSQHLFNKTITSNMLCAGDTRTGGNQDVHDACQGDSGGPLVCMIDKRMTLLGIISWGLGCGQKDVPGIYTKVTNYLNWIQDNMKQ |
| 2452 | sp|P9WQ19|TRES\_MYCTU | MNEAEHSVEHPPVQGSHVEGGVVEHPDAKDFGSAAALPADPTWFKHAVFYEVLVRAFFDASADGSGDLRGLIDRLDYLQWLGIDCIWLPPFYDSPLRDGGYDIRDFYKVLPEFGTVDDFVALVDAAHRRGIRIITDLVMNHTSESHPWFQESRRDPDGPYGDYYVWSDTSERYTDARIIFVDTEESNWSFDPVRRQFYWHRFFSHQPDLNYDNPAVQEAMIDVIRFWLGLGIDGFRLDAVPYLFEREGTNCENLPETHAFLKRVRKVVDDEFPGRVLLAEANQWPGDVVEYFGDPNTGGDECHMAFHFPLMPRIFMAVRRESRFPISEIIAQTPPIPDMAQWGIFLRNHDELTLEMVTDEERDYMYAEYAKDPRMKANVGIRRRLAPLLDNDRNQIELFTALLLSLPGSPVLYYGDEIGMGDVIWLGDRDGVRIPMQWTPDRNAGFSTANPGRLYLPPSQDPVYGYQAVNVEAQRDTSTSLLNFTRTMLAVRRRHPAFAVGAFQELGGSNPSVLAYVRQVAGDDGDTVLCVNNLSRFPQPIELDLQQWTNYTPVELTGHVEFPRIGQVPYLLTLPGHGFYWFQLTTHEVGAPPTCGGERRL |
| 2453 | sp|A1Z8P9|TPR\_DROME | MDLSGPQTLNNILQPDELKLVPEDVQKKLSEYINNFSDEYCKNRAAANRLAEAEQKKEELENKMEDYLVKFTSFELNVNELRTHLDQMSSERVNLMDTIAKGEQTISQLRKEKASVVEERDSMMKVIERQQAELERLKQDLHTYQQQLSSAIAAKCEAIARVDEIQSKEVALELKENRMESERDMLHKEILLISGDLNKSNAELQNIRREHTINTMQLQSCLKEKTESLKLMQEQYEQAVKTIGELTSKIEMQNDTAFKQNQATEEYVGKLKKELDAKEKLFEIFKSTESDHLIQREELLQGISEIKRLLEEAEEQCAQLTEQMETMKQKHSAELDEQNKKIQAMEQELASANDLLKQARESNLESAICQLAPSAAVASRLIRSDLSLTELYSMYAKSSEELEMRNCEIEQLKLQLKSIIAEISESAPILEKQNSDYQKMKETNSELLREHDELLQNKLCLERELERALSTLNHNQNENKKLKQTHTDLSRQVCMLLDELNCIRAGVKHVRIQPTRQLPTSESLISDNLVTFSSIEELVDRNTYLLNMSRELTELLEASEKNQDKMLLEQSKNHIRKLDARFAELEDLLTQKNNTVTTLLSKCDRYKKLYFAAQKKLGQNTVDLDDSNLEPNDSALDTSEQPAANFEESRKLEKRVRQLEQQLEGEVKKYASLKENYDYYTSEKRKNDALAQEQFDSMRKEVRELTSSNCKLMNTTEFQKEQIELLHKNIGTYKQQVTTLEERTKNYEKTIIKHEQTVHLLKDEMMAAHRKHAAADAEAQSLRQENRILRDTSSRLQIEKETYHREQQSQSLLLNSLEFIKTNLERSEMEGRQRLEQRLDDTVRELAAQRRHFQEEEEKFRESINEFKRQAETAIKLKDEEKQLADKWQAELTSVREELAEKVNKVNELSKKLQEVLTPTLNDNPITAANKRAREFELKLDQATVEIESLTKELAKTREHGEQFYKMSQSAESEIKRLHELHGELVAKQEEEIKKLRSSEAELKTRISDLEAEAMLSNVTEQSKTVNQSGQLKSAQDDLKSLLEKLTEANCTIRTLRSENTSLVESLNAAEVKYANGMIQHSADIQELTRYKAEFFKANDELNQLKSGRESLQAAYDELLRSNAEAQKLLDKEREESEKRVADLHALNSNLHDQIEALASKLAVLASQSQNPNSSLNESAMDGDQSLNASGLTAAEEGRNNEQLLKIIKFLRKEKDLFAAKLDILKAENARLISEHAIQQKKVDELNGYLNQERAKSQTDVVSANKHEEVLRKIETLNAITDSNRILREERNALTLRVAELTDRISSVEKELFPLQCSNKELTSKIEEINVENTSLRTEAIKWRQRANALVEKSNRNPEEFKRLQAEREHLAKLLTAEKELNKKQSDELTVLKQRMNTEIPMLNKQMQILDEARKKQVDEFTNLKQNNTRQTQDIMELKNRLLQKEEELLKANEELETKDKTIADKETKELQLRKLAKRYKDFYIGLQSQGGGTESAAELEKVRSELEEVNNQLRALKDEHEKITKECDEVKKRTEPETDTSAIRQEYKAKLDKLVVDLTVARTDLVNQETTFAGTKSSYDETIARLEKELQENIAANKDINQRLTRENESLHMRINQLTRQLGSQQSTKPSTSSVAEKGNISESSPRTANVKPMSGSATVQQSATVTPWRGGETPLASIRPISVQNSRTAAILPTSQQPPAGSSTSTSSSSSSSSTSTTSAAGGGSSAVAQTALVPPQQQVHTTGSAALESMASSSPTSSHTDYMPSTSSASVAVAAIPPMGASSAAESSQEAESIQHPQQNDSQLFVGGAQQQVVALVSPRVEGSSSSSSSTSVPTATAPSIQDGGSQSQQPSTSGSSSSSSTVVSSHSRHTPSSSNVTTTQAGCSSQGIKRPRDIEGDSSTGTEEGVAEKMSKITKRLRGPMHSGELSAGHIGDSGMDVDQMPTSSQRDQEDDIQVVDSDDEEDVLADADDGPIDGGEAEQEGYEDSYEQDNEMDDNEGGDDDNDIAVDAQDNNEVDIEVPEQHMQAQEESQSLDNQAIATASASTQENNQSQAITSGSGESSNPVTLPQAEASNWKQAAASTSTAAARRNESSVEIVSSPQVSNFCEQPARLESAEVDGTAEVAGGAPHESAGPSDTGAASASSPQKQSEAGESSGSDALKAADDGGDHADGTDNAREADEAFAEETMATGQGEDSQPLGNDNPNVGTSQSEVSHNQANLGEGNPTEDSEGADGVSSEGEKQAVGVEEEGREAEATSPSENTRFRTLRSAVPTRRGHRAMRGGSPNSQNRPQRIVWQRDTSPGNIQQNQMSANNNRFAQRTRNRRPIRRPPPNNFNNGGRFP |
| 2454 | sp|Q8C7M3|TRIM9\_MOUSE | MEEMEEELKCPVCGSFYREPIILPCSHNLCQACARNILVQTPESESPQSRRASGSGVSDYDYLDLDKMSLYSEADSGYGSYGGFASAPTTPCQKSPNGVRVFPPAMPPPPTHLSPALAPVPRNSCITCPQCHRSLILDDRGLRGFPKNRVLEGVIDRYQQSKAAALKCQLCEKAPKEATVMCEQCDVFYCDPCRLRCHPPRGPLAKHRLVPPAQGRVSRRLSPRKVSTCTDHELENHSMYCVQCKMPVCYQCLEEGKHSSHEVKALGAMWKLHKSQLSQALNGLSDRAKEAKEFLVQLRTMVQQIQENSVEFEACLVAQCDALIDALNRRKAQLLARVNKEHEHKLKVVRDQISHCTVKLRQTTGLMEYCLEVIKENDPSGFLQISDALIRRVHLTEDQWGKGTLTPRMTTDFDLSLDNSPLLQSIHQLDFVQVKASSPVPATPILQLEECCTHNNSATLSWKQPPLSTVAADGYILELDDGSGGQFREVYVGKETMCTVDGLHFNSTYNARVKAFNKTGVSPYSKTLVLQTSEAAGAHETKPMKDTDSEEQTLPFPVPSERLPLRRMSPFSSTLNLQPSFPGRSYFDFRSSPHQLSLHSSLQSLNAPGCNFETQSASYSQLVDIKKLLAVAWFAFDPGSAHSDIIFSNDNLTVTCSSYDDRVVLGKTGFSKGVHYWELTIDRYDNHPDPAFGVARIDVMKDMMLGKDDKAWAMYVDNNRSWFMHNNSHTNRTEGGITKGATIGVLLDLNRKTLTFFVNNEQQGPIAFENVEGLFFPAVSLNRNVQVSLWAPGLRACSGCYFKVCPGAVKSPQAPAP |
| 2455 | sp|Q8WZ04|TOMT\_HUMAN | MGTPWRKRKGIAGPGLPDLSCALVLQPRAQVGTMSPAIALAFLPLVVTLLVRYRHYFRLLVRTVLLRSLRDCLSGLRIEERAFSYVLTHALPGDPGHILTTLDHWSSRCEYLSHMGPVKGQILMRLVEEKAPACVLELGTYCGYSTLLIARALPPGGRLLTVERDPRTAAVAEKLIRLAGFDEHMVELIVGSSEDVIPCLRTQYQLSRADLVLLAHRPRCYLRDLQLLEAHALLPAGATVLADHVLFPGAPRFLQYAKSCGRYRCRLHHTGLPDFPAIKDGIAQLTYAGPG |
| 2456 | sp|O60858|TRI13\_HUMAN | MELLEEDLTCPICCSLFDDPRVLPCSHNFCKKCLEGILEGSVRNSLWRPAPFKCPTCRKETSATGINSLQVNYSLKGIVEKYNKIKISPKMPVCKGHLGQPLNIFCLTDMQLICGICATRGEHTKHVFCSIEDAYAQERDAFESLFQSFETWRRGDALSRLDTLETSKRKSLQLLTKDSDKVKEFFEKLQHTLDQKKNEILSDFETMKLAVMQAYDPEINKLNTILQEQRMAFNIAEAFKDVSEPIVFLQQMQEFREKIKVIKETPLPPSNLPASPLMKNFDTSQWEDIKLVDVDKLSLPQDTGTFISKIPWSFYKLFLLILLLGLVIVFGPTMFLEWSLFDDLATWKGCLSNFSSYLTKTADFIEQSVFYWEQVTDGFFIFNERFKNFTLVVLNNVAEFVCKYKLL |
| 2457 | sp|Q12899|TRI26\_HUMAN | MATSAPLRSLEEEVTCSICLDYLRDPVTIDCGHVFCRSCTTDVRPISGSRPVCPLCKKPFKKENIRPVWQLASLVENIERLKVDKGRQPGEVTREQQDAKLCERHREKLHYYCEDDGKLLCVMCRESREHRPHTAVLMEKAAQPHREKILNHLSTLRRDRDKIQGFQAKGEADILAALKKLQDQRQYIVAEFEQGHQFLREREEHLLEQLAKLEQELTEGREKFKSRGVGELARLALVISELEGKAQQPAAELMQDTRDFLNRYPRKKFWVGKPIARVVKKKTGEFSDKLLSLQRGLREFQGKLLRDLEYKTVSVTLDPQSASGYLQLSEDWKCVTYTSLYKSAYLHPQQFDCEPGVLGSKGFTWGKVYWEVEVEREGWSEDEEEGDEEEEGEEEEEEEEAGYGDGYDDWETDEDEESLGDEEEEEEEEEEEVLESCMVGVARDSVKRKGDLSLRPEDGVWALRLSSSGIWANTSPEAELFPALRPRRVGIALDYEGGTVTFTNAESQELIYTFTATFTRRLVPFLWLKWPGTRLLLRP |
| 2458 | sp|P35169|TOR1\_YEAST | MEPHEEQIWKSKLLKAANNDMDMDRNVPLAPNLNVNMNMKMNASRNGDEFGLTSSRFDGVVIGSNGDVNFKPILEKIFRELTSDYKEERKLASISLFDLLVSLEHELSIEEFQAVSNDINNKILELVHTKKTSTRVGAVLSIDTLISFYAYTERLPNETSRLAGYLRGLIPSNDVEVMRLAAKTLGKLAVPGGTYTSDFVEFEIKSCLEWLTASTEKNSFSSSKPDHAKHAALLIITALAENCPYLLYQYLNSILDNIWRALRDPHLVIRIDASITLAKCLSTLRNRDPQLTSQWVQRLATSCEYGFQVNTLECIHASLLVYKEILFLKDPFLNQVFDQMCLNCIAYENHKAKMIREKIYQIVPLLASFNPQLFAGKYLHQIMDNYLEILTNAPANKIPHLKDDKPQILISIGDIAYEVGPDIAPYVKQILDYIEHDLQTKFKFRKKFENEIFYCIGRLAVPLGPVLGKLLNRNILDLMFKCPLSDYMQETFQILTERIPSLGPKINDELLNLVCSTLSGTPFIQPGSPMEIPSFSRERAREWRNKNILQKTGESNDDNNDIKIIIQAFRMLKNIKSRFSLVEFVRIVALSYIEHTDPRVRKLAALTSCEIYVKDNICKQTSLHSLNTVSEVLSKLLAITIADPLQDIRLEVLKNLNPCFDPQLAQPDNLRLLFTALHDESFNIQSVAMELVGRLSSVNPAYVIPSIRKILLELLTKLKFSTSSREKEETASLLCTLIRSSKDVAKPYIEPLLNVLLPKFQDTSSTVASTALRTIGELSVVGGEDMKIYLKDLFPLIIKTFQDQSNSFKREAALKALGQLAASSGYVIDPLLDYPELLGILVNILKTENSQNIRRQTVTLIGILGAIDPYRQKEREVTSTTDISTEQNAPPIDIALLMQGMSPSNDEYYTTVVIHCLLKILKDPSLSSYHTAVIQAIMHIFQTLGLKCVSFLDQIIPTILDVMRTCSQSLLEFYFQQLCSLIIIVRQHIRPHVDSIFQAIKDFSSVAKLQITLVSVIEAISKALEGEFKRLVPLTLTLFLVILENDKSSDKVLSRRVLRLLESFGPNLEGYSHLITPKIVQMAEFTSGNLQRSAIITIGKLAKDVDLFEMSSRIVHSLLRVLSSTTSDELSKVIMNTLSLLLIQMGTSFAIFIPVINEVLMKKHIQHTIYDDLTNRILNNDVLPTKILEANTTDYKPAEQMEAADAGVAKLPINQSVLKSAWNSSQQRTKEDWQEWSKRLSIQLLKESPSHALRACSNLASMYYPLAKELFNTAFACVWTELYSQYQEDLIGSLCIALSSPLNPPEIHQTLLNLVEFMEHDDKALPIPTQSLGEYAERCHAYAKALHYKEIKFIKEPENSTIESLISINNQLNQTDAAIGILKHAQQHHSLQLKETWFEKLERWEDALHAYNEREKAGDTSVSVTLGKMRSLHALGEWEQLSQLAARKWKVSKLQTKKLIAPLAAGAAWGLGEWDMLEQYISVMKPKSPDKEFFDAILYLHKNDYDNASKHILNARDLLVTEISALINESYNRAYSVIVRTQIITEFEEIIKYKQLPPNSEKKLHYQNLWTKRLLGCQKNVDLWQRVLRVRSLVIKPKQDLQIWIKFANLCRKSGRMRLANKALNMLLEGGNDPSLPNTFKAPPPVVYAQLKYIWATGAYKEALNHLIGFTSRLAHDLGLDPNNMIAQSVKLSSASTAPYVEEYTKLLARCFLKQGEWRIATQPNWRNTNPDAILGSYLLATHFDKNWYKAWHNWALANFEVISMVQEETKLNGGKNDDDDDTAVNNDNVRIDGSILGSGSLTINGNRYPLELIQRHVVPAIKGFFHSISLLETSCLQDTLRLLTLLFNFGGIKEVSQAMYEGFNLMKIENWLEVLPQLISRIHQPDPTVSNSLLSLLSDLGKAHPQALVYPLTVAIKSESVSRQKAALSIIEKIRIHSPVLVNQAELVSHELIRVAVLWHELWYEGLEDASRQFFVEHNIEKMFSTLEPLHKHLGNEPQTLSEVSFQKSFGRDLNDAYEWLNNYKKSKDINNLNQAWDIYYNVFRKITRQIPQLQTLDLQHVSPQLLATHDLELAVPGTYFPGKPTIRIAKFEPLFSVISSKQRPRKFSIKGSDGKDYKYVLKGHEDIRQDSLVMQLFGLVNTLLKNDSECFKRHLDIQQYPAIPLSPKSGLLGWVPNSDTFHVLIREHRDAKKIPLNIEHWVMLQMAPDYENLTLLQKIEVFTYALDNTKGQDLYKILWLKSRSSETWLERRTTYTRSLAVMSMTGYILGLGDRHPSNLMLDRITGKVIHIDFGDCFEAAILREKYPEKVPFRLTRMLTYAMEVSGIEGSFRITCENVMRVLRDNKESLMAILEAFALDPLIHWGFDLPPQKLTEQTGIPLPLINPSELLRKGAITVEEAANMEAEQQNETKNARAMLVLRRITDKLTGNDIKRFNELDVPEQVDKLIQQATSIERLCQHYIGWCPFW |
| 2459 | sp|P07204|TRBM\_HUMAN | MLGVLVLGALALAGLGFPAPAEPQPGGSQCVEHDCFALYPGPATFLNASQICDGLRGHLMTVRSSVAADVISLLLNGDGGVGRRRLWIGLQLPPGCGDPKRLGPLRGFQWVTGDNNTSYSRWARLDLNGAPLCGPLCVAVSAAEATVPSEPIWEEQQCEVKADGFLCEFHFPATCRPLAVEPGAAAAAVSITYGTPFAARGADFQALPVGSSAAVAPLGLQLMCTAPPGAVQGHWAREAPGAWDCSVENGGCEHACNAIPGAPRCQCPAGAALQADGRSCTASATQSCNDLCEHFCVPNPDQPGSYSCMCETGYRLAADQHRCEDVDDCILEPSPCPQRCVNTQGGFECHCYPNYDLVDGECVEPVDPCFRANCEYQCQPLNQTSYLCVCAEGFAPIPHEPHRCQMFCNQTACPADCDPNTQASCECPEGYILDDGFICTDIDECENGGFCSGVCHNLPGTFECICGPDSALARHIGTDCDSGKVDGGDSGSGEPPPSPTPGSTLTPPAVGLVHSGLLIGISIASLCLVVALLALLCHLRKKQGAARAKMEYKCAAPSKEVVLQHVRTERTPQRL |
| 2460 | sp|Q8KNP3|TUBZ\_BACTI | MLLNSNELEHIHSTNHSVNDISIRWGVIGAGQKGNKEADLFAGYKFSNGTTCYPTLAVNFAESDMMHLQNIIKEDRIHFDGLKGAARTPSVVTDLFDPETNPNANGYLDKLAQELGRKFTNEEGEVIVDQFLICLGAGGGVGTGWGSLVLQLIREQFFPCPVSMLISLPSGDPDEINNALVLLSEIDEFMREQDRLFGNSDIKPLANVIVNDNTQMQRIIESQKGTKDLKNRYVNWKEVANDNVVSTLHEINIIPENYGSDNVTYDPSDLIKLLSIPGRFLTIGKARIAKFDLHSLENSIKRSLDEGFFSAEHQFETATMYGGFVLRPSNADFFKDVNTENRIRNTLGEYKRLDEIAGKFGDPIWDNEYAVCYTIFAGMTMPKRYISLAREGKELAEKQEQLRAEAQRKQDEEKVDISFATNRVQKNTFNPYNKNQGFGGASRFSGGKNSAFKRQTSEATSTQNQQEEENIISTLKTSNPFKKR |
| 2461 | sp|Q9D030|TWST2\_MOUSE | MEEGSSSPVSPVDSLGTSEEELERQPKRFGRKRRYSKKSSEDGSPTPGKRGKKGSPSAQSFEELQSQRILANVRERQRTQSLNEAFAALRKIIPTLPSDKLSKIQTLKLAARYIDFLYQVLQSDEMDNKMTSCSYVAHERLSYAYSVWRMEGAWSMSASH |
| 2462 | sp|Q9LVM5|TTHL\_ARATH | MAMEIGEDEWKVCCGSSEFAKQMSTSGPLTSQEAIYTARDIWFNQVNVTDWLEAFSAHPQIGNTPSPSINSDFARRSVSEQSTAFATTSASALQELAEWNVLYKKKFGFIFIICASGRTHAEMLHALKERYENRPIVELEIAAMEQMKITELRMAKLFSDKAKVISETDSSSSPVSTKPQDRLRIIGGHLNVAAEAKAPKRSRPPITTHVLDVSRGAPAAGVEVHLEVWSGTTGPSFVHGGGGVWSSVGTSATDRDGRSGPLMDLVDALNPGTYRISFDTAKYSPGCFFPYVSIVFQVTESQKWEHFHVPLLLAPFSFSTYRGS |
| 2463 | sp|A2RUC4|TYW5\_HUMAN | MAGQHLPVPRLEGVSREQFMQHLYPQRKPLVLEGIDLGPCTSKWTVDYLSQVGGKKEVKIHVAAVAQMDFISKNFVYRTLPFDQLVQRAAEEKHKEFFVSEDEKYYLRSLGEDPRKDVADIRKQFPLLKGDIKFPEFFKEEQFFSSVFRISSPGLQLWTHYDVMDNLLIQVTGKKRVVLFSPRDAQYLYLKGTKSEVLNIDNPDLAKYPLFSKARRYECSLEAGDVLFIPALWFHNVISEEFGVGVNIFWKHLPSECYDKTDTYGNKDPTAASRAAQILDRALKTLAELPEEYRDFYARRMVLHIQDKAYSKNSE |
| 2464 | sp|O43156|TTI1\_HUMAN | MAVFDTPEEAFGVLRPVCVQLTKTQTVENVEHLQTRLQAVSDSALQELQQYILFPLRFTLKTPGPKRERLIQSVVECLTFVLSSTCVKEQELLQELFSELSACLYSPSSQKPAAVSEELKLAVIQGLSTLMHSAYGDIILTFYEPSILPRLGFAVSLLLGLAEQEKSKQIKIAALKCLQVLLLQCDCQDHPRSLDELEQKQLGDLFASFLPGISTALTRLITGDFKQGHSIVVSSLKIFYKTVSFIMADEQLKRISKVQAKPAVEHRVAELMVYREADWVKKTGDKLTILIKKIIECVSVHPHWKVRLELVELVEDLLLKCSQSLVECAGPLLKALVGLVNDESPEIQAQCNKVLRHFADQKVVVGNKALADILSESLHSLATSLPRLMNSQDDQGKFSTLSLLLGYLKLLGPKINFVLNSVAHLQRLSKALIQVLELDVADIKIVEERRWNSDDLNASPKTSATQPWNRIQRRYFRFFTDERIFMLLRQVCQLLGYYGNLYLLVDHFMELYHQSVVYRKQAAMILNELVTGAAGLEVEDLHEKHIKTNPEELREIVTSILEEYTSQENWYLVTCLETEEMGEELMMEHPGLQAITSGEHTCQVTSFLAFSKPSPTICSMNSNIWQICIQLEGIGQFAYALGKDFCLLLMSALYPVLEKAGDQTLLISQVATSTMMDVCRACGYDSLQHLINQNSDYLVNGISLNLRHLALHPHTPKVLEVMLRNSDANLLPLVADVVQDVLATLDQFYDKRAASFVSVLHALMAALAQWFPDTGNLGHLQEQSLGEEGSHLNQRPAALEKSTTTAEDIEQFLLNYLKEKDVADGNVSDFDNEEEEQSVPPKVDENDTRPDVEPPLPLQIQIAMDVMERCIHLLSDKNLQIRLKVLDVLDLCVVVLQSHKNQLLPLAHQAWPSLVHRLTRDAPLAVLRAFKVLRTLGSKCGDFLRSRFCKDVLPKLAGSLVTQAPISARAGPVYSHTLAFKLQLAVLQGLGPLCERLDLGEGDLNKVADACLIYLSVKQPVKLQEAARSVFLHLMKVDPDSTWFLLNELYCPVQFTPPHPSLHPVQLHGASGQQNPYTTNVLQLLKELQ |
| 2465 | sp|Q9BXA7|TSSK1\_HUMAN | MDDAAVLKRRGYLLGINLGEGSYAKVKSAYSERLKFNVAIKIIDRKKAPADFLEKFLPREIEILAMLNHCSIIKTYEIFETSHGKVYIVMELAVQGDLLELIKTRGALHEDEARKKFHQLSLAIKYCHDLDVVHRDLKCDNLLLDKDFNIKLSDFSFSKRCLRDDSGRMALSKTFCGSPAYAAPEVLQGIPYQPKVYDIWSLGVILYIMVCGSMPYDDSNIKKMLRIQKEHRVNFPRSKHLTGECKDLIYHMLQPDVNRRLHIDEILSHCWMQPKARGSPSVAINKEGESSRGTEPLWTPEPGSDKKSATKLEPEGEAQPQAQPETKPEGTAMQMSRQSEILGFPSKPSTMETEEGPPQQPPETRAQ |
| 2466 | sp|P29509|TRXB1\_YEAST | MVHNKVTIIGSGPAAHTAAIYLARAEIKPILYEGMMANGIAAGGQLTTTTEIENFPGFPDGLTGSELMDRMREQSTKFGTEIITETVSKVDLSSKPFKLWTEFNEDAEPVTTDAIILATGASAKRMHLPGEETYWQKGISACAVCDGAVPIFRNKPLAVIGGGDSACEEAQFLTKYGSKVFMLVRKDHLRASTIMQKRAEKNEKIEILYNTVALEAKGDGKLLNALRIKNTKKNEETDLPVSGLFYAIGHTPATKIVAGQVDTDEAGYIKTVPGSSLTSVPGFFAAGDVQDSKYRQAITSAGSGCMAALDAEKYLTSLE |
| 2467 | sp|P60340|TRUB\_ECOLI | MSRPRRRGRDINGVLLLDKPQGMSSNDALQKVKRIYNANRAGHTGALDPLATGMLPICLGEATKFSQYLLDSDKRYRVIARLGQRTDTSDADGQIVEERPVTFSAEQLAAALDTFRGDIEQIPSMYSALKYQGKKLYEYARQGIEVPREARPITVYELLFIRHEGNELELEIHCSKGTYIRTIIDDLGEKLGCGAHVIYLRRLAVSKYPVERMVTLEHLRELVEQAEQQDIPAAELLDPLLMPMDSPASDYPVVNLPLTSSVYFKNGNPVRTSGAPLEGLVRVTEGENGKFIGMGEIDDEGRVAPRRLVVEYPA |
| 2468 | sp|P0CG49|UBB\_MOUSE | MQIFVKTLTGKTITLEVEPSDTIENVKAKIQDKEGIPPDQQRLIFAGKQLEDGRTLSDYNIQKESTLHLVLRLRGGMQIFVKTLTGKTITLEVEPSDTIENVKAKIQDKEGIPPDQQRLIFAGKQLEDGRTLSDYNIQKESTLHLVLRLRGGMQIFVKTLTGKTITLEVEPSDTIENVKAKIQDKEGIPPDQQRLIFAGKQLEDGRTLSDYNIQKESTLHLVLRLRGGMQIFVKTLTGKTITLEVEPSDTIENVKAKIQDKEGIPPDQQRLIFAGKQLEDGRTLSDYNIQKESTLHLVLRLRGGY |
| 2469 | sp|Q8AYG3|TTK\_DANRE | MDEEESTERQMQIAMLCQKLAMMKQLFNEDDTDYINQAISSNSPDTCRTFLSNLEKKGNPQADPSLLSKLMDSYTRVFSSMPLGKYSQNESYAKMLVRFAELKAIQDVNDAQTSFDIARSHCKDFAFVHVAYAQFELLQGNMKKCTMILQKAFEMNAKPRHVLEAAVRNLKTGKRQLLSHEDKENLSVSALDHTQGSRRSDGTCELKPSNTFLHSDQKFSPQEENGPVWRTGSQHRRTAMAERVPMVPLSIPENETSDSDCAQKAEAPFTHSSGFSRQTSGSSVRSAFSLCSSKKGTPDGDSYSLNIKPPVISPDYLREDIEEGHTITALLNRAEKRETARTEETTDINQIISTNSTEGCQAFLKNLEKRADPHSDAAFLSKLLDCYSKVFARFPLAEHCKTESYARMLVRYAELKGIEDPEDAADDFSIARSHCKAFAFVHIAHAQFELSRGNSRKSVSILQKALSSNARPIELLQTAIRNLKSGKTLLLPAEHQESSEAENVEAQNGMKREENPVKAPEDHQKPFSKETSSEWKIPALITKHTSPEDRKAPVEPVSSSSSHHAVRTPAPLRLNPSLSCQTPNYRQPNPNSFVTPVVKQRPVIVSVPATAQKMCPTALPCTPQSGVSYIQPPTQTPSSAFSNESITIKGKQFFIFKMIGRGGSSKVYQVFDHKKHVYAVKYVNLEEADAQAVESYKNEIEHLNHLQQYSDQIIKLYDYEITSSYIYMLMECGHLDLNTWLRNRKTVKPLDRKAYWRNMLEAVHTIHKHGIVHSDLKPANFLIVDGSLKLIDFGIANQIQPDVTSIMKDSQVGTLNYMPPEAIKDTSSNGKPGSKISAKGDVWSLGCILYCMTYGKTPFQNITNQISKIHAIIDPSHEIDFPDIPEKDLLDVLKKCLVRNPRERISIAELLDHPYLQLQPQPAPEPAETSSSDFKRILNELVALQSPNSIARAASNLAMMCNSGRKLDVSECVKSSSQTLWK |
| 2470 | sp|Q61037|TSC2\_MOUSE | MAKPTSKDSGLKEKFKILLGLGTSRPNPRCAEGKQTEFIITSEILRELSGECGLNNRIRMIGQICDVAKTKKLEEHAVEALWKAVSDLLQPERPPEARHAVLTLLKAIVQGQGDRLGVLRALFFKVIKDYPSNEDLHERLEVFKALTDNGRHITYLEEELAEFVLQWMDVGLSSEFLLVLVNLVKFNSCYLDEYIASMVHMICLLCIRTVSSVDIEVSLQVLDAVVCYNCLPAESLPLFIITLCRTINVKELCEPCWKLMRNLLGTHLGHSAIYNMCRIMEDRSYMEDAPLLRGAVFFVGMALWGAHRLYSLKNSPTSVLPSFYEAMTCPNEVVSYEIVLSITRLIKKYRKELQAVTWDILLDIIERLLQQLQNLDSPELKTIVHDLLTTVEELCDQNEFHGSQERYYELVESYADQRPESSLLNLISYRAQSIHPAKDGWIQNLQLLMERFFRNECRSAVAIKVLDVLSFVLLIIRQFYEEELINSVVISQLSHIPEDKDHQVRKLATQLLVDLAEGCHTHHFNSLLDIIEKVMARSLSPPPELEERDLAVHSASLEDVKTAVLGLLVILQTKLYTLPASHATRVYESLISHIQLHYKHGYSLPIASSIRLQAFDFLLLLRADSLHRLGLPNKDGVVRFSPYCLCDCMELDRASEKKASGPLSPPTGPPSPVPMGPAVRLGYLPYSLLFRVLLQCLKQESDWKVLKLVLSRLPESLRYKVLIFTSPCSVDQLSSALCSMLSAPKTLERLRGTPEGFSRTDLHLAVVPVLTALISYHNYLDKTRQREMVYCLEQGLIYRCASQCVVALAICSVEMPDIIIKALPVLVVKLTHISATASMAIPLLEFLSTLARLPHLYRNFVPEQYASVFAISLPYTNPSKFNQYIVCLAHHVIAMWFIRCRLPFRKDFVPYITKGLRSNVLLSFDDTPEKDSFRARSTSLNERPKSLRIARAPKQGLNNSPPVKEFKESCAAEAFRCRSISVSEHVVRSRIQTSLTSASLGSADENSMAQADDNLKNLHLELTETCLDMMARYVFSNFTAVPKRSPVGEFLLAGGRTKTWLVGNKLVTVTTSVGTGTRSLLGLDSGDLQGGSDSSSDPSTHVRQTKEAPAKLESQAGQQVSRGARDRVRSMSGGHGLRVGVLDTSAPYSPGGSASLGPQTAVAAKPEKPPAGAQLPTAEKTNLAAYVPLLTQGWAEILVRRPTGNTSWLMSLENPLSPFSSDINNMPLQELSNALMAAERFKEHGHAPVQVIVSATGCTAKPPTLPRSNTVASFSSLYQPSCQGQLHRSVSWADSAMVLEEGSPGETQVPVEPPELEDFEAALGTDRHCQRPDTYSRSSSASSQEEKSHLEELAAGGIPIERAISSEGARPAVDLSFQPSQPLSKSSSSPELQTLQDILGDLGDKIDIGRLSPEAKVRSQSGILDGEAATWSATGEESRITVPPEGPLPSSSPRSPSGLRPRGYTISDSAPSRRGKRVERDNFKSRAAASSAEKVPGINPSFVFLQLYHSPFFGDESNKPILLPNESFERSVQLLDQIPSYDTHKIAVLYVGEGQSSSELAILSNEHGSYRYTEFLTGLGRLIELKDCQPDKVYLGGLDVCGEDGQFTYCWHDDIMQAVFHIATLMPTKDVDKHRCDKKRHLGNDFVSIIYNDSGEDFKLGTIKQGQFNFVHVIITPLDYKCNLLTLQCRKDGPACKCEWWRQPGEIVVWALPVVMELTVTILLCHLQMASQVHHSRSNPTDIYPSKWIARLRHIKRLRQRIREEVHYSNPSLPLMHPPAHTKAPAQAPEATPTYETGQRKRLISSVDDFTEFV |
| 2471 | sp|P00762|TRY1\_RAT | MSALLILALVGAAVAFPLEDDDKIVGGYTCPEHSVPYQVSLNSGYHFCGGSLINDQWVVSAAHCYKSRIQVRLGEHNINVLEGDEQFINAAKIIKHPNYSSWTLNNDIMLIKLSSPVKLNARVAPVALPSACAPAGTQCLISGWGNTLSNGVNNPDLLQCVDAPVLSQADCEAAYPGEITSSMICVGFLEGGKDSCQGDSGGPVVCNGQLQGIVSWGYGCALPDNPGVYTKVCNFVGWIQDTIAAN |
| 2472 | sp|Q9BZF9|UACA\_HUMAN | MKSLKSRLRRQDVPGPASSGAAAASAHAADWNKYDDRLMKAAERGDVEKVTSILAKKGVNPGKLDVEGRSVFHVVTSKGNLECLNAILIHGVDITTSDTAGRNALHLAAKYGHALCLQKLLQYNCPTEHADLQGRTALHDAAMADCPSSIQLLCDHGASVNAKDVDGRTPLVLATQMSRPTICQLLIDRGADVNSRDKQNRTALMLGCEYGCRDAVEVLIKNGADISLLDALGHDSSYYARIGDNLDILTLLKTASENTNKGRELWKKGPSLQQRNLTHMQDEVNVKSHQREHQNIQDLEIENEDLKERLRKIQQEQRILLDKVNGLQLQLNEEVMVADDLESEREKLKSLLAAKEKQHEESLRTIEALKNRFKYFESDHLGSGSHFSNRKEDMLLKQGQMYMADSQCTSPGIPAHMQSRSMLRPLELSLPSQTSYSENEILKKELEAMRTFCESAKQDRLKLQNELAHKVAECKALALECERVKEDSDEQIKQLEDALKDVQKRMYESEGKVKQMQTHFLALKEHLTSEAASGNHRLTEELKDQLKDLKVKYEGASAEVGKLRNQIKQNEMIVEEFKRDEGKLIEENKRLQKELSMCEMEREKKGRKVTEMEGQAKELSAKLALSIPAEKFENMKSSLSNEVNEKAKKLVEMEREHEKSLSEIRQLKRELENVKAKLAQHVKPEEHEQVKSRLEQKSGELGKKITELTLKNQTLQKEIEKVYLDNKLLKEQAHNLTIEMKNHYVPLKVSEDMKKSHDAIIDDLNRKLLDVTQKYTEKKLEMEKLLLENDSLSKDVSRLETVFVPPEKHEKEIIALKSNIVELKKQLSELKKKCGEDQEKIHALTSENTNLKKMMSNQYVPVKTHEEVKMTLNDTLAKTNRELLDVKKKFEDINQEFVKIKDKNEILKRNLENTQNQIKAEYISLAEHEAKMSSLSQSMRKVQDSNAEILANYRKGQEEIVTLHAEIKAQKKELDTIQECIKVKYAPIVSFEECERKFKATEKELKDQLSEQTQKYSVSEEEVKKNKQENDKLKKEIFTLQKDLRDKTVLIEKSHEMERALSRKTDELNKQLKDLSQKYTEVKNVKEKLVEENAKQTSEILAVQNLLQKQHVPLEQVEALKKSLNGTIENLKEELKSMQRCYEKEQQTVTKLHQLLENQKNSSVPLAEHLQIKEAFEKEVGIIKASLREKEEESQNKMEEVSKLQSEVQNTKQALKKLETREVVDLSKYKATKSDLETQISSLNEKLANLNRKYEEVCEEVLHAKKKEISAKDEKELLHFSIEQEIKDQKERCDKSLTTITELQRRIQESAKQIEAKDNKITELLNDVERLKQALNGLSQLTYTSGNPTKRQSQLIDTLQHQVKSLEQQLADADRQHQEVIAIYRTHLLSAAQGHMDEDVQEALLQIIQMRQGLVC |
| 2473 | sp|P83476|TXPR2\_THRPR | YCQKWMWTCDSERKCCEGMVCRLWCKKKLW |
| 2474 | sp|Q9UHF7|TRPS1\_HUMAN | MVRKKNPPLRNVASEGEGQILEPIGTESKVSGKNKEFSADQMSENTDQSDAAELNHKEEHSLHVQDPSSSSKKDLKSAVLSEKAGFNYESPSKGGNFPSFPHDEVTDRNMLAFSSPAAGGVCEPLKSPQRAEADDPQDMACTPSGDSLETKEDQKMSPKATEETGQAQSGQANCQGLSPVSVASKNPQVPSDGGVRLNKSKTDLLVNDNPDPAPLSPELQDFKCNICGYGYYGNDPTDLIKHFRKYHLGLHNRTRQDAELDSKILALHNMVQFSHSKDFQKVNRSVFSGVLQDINSSRPVLLNGTYDVQVTSGGTFIGIGRKTPDCQGNTKYFRCKFCNFTYMGNSSTELEQHFLQTHPNKIKASLPSSEVAKPSEKNSNKSIPALQSSDSGDLGKWQDKITVKAGDDTPVGYSVPIKPLDSSRQNGTEATSYYWCKFCSFSCESSSSLKLLEHYGKQHGAVQSGGLNPELNDKLSRGSVINQNDLAKSSEGETMTKTDKSSSGAKKKDFSSKGAEDNMVTSYNCQFCDFRYSKSHGPDVIVVGPLLRHYQQLHNIHKCTIKHCPFCPRGLCSPEKHLGEITYPFACRKSNCSHCALLLLHLSPGAAGSSRVKHQCHQCSFTTPDVDVLLFHYESVHESQASDVKQEANHLQGSDGQQSVKESKEHSCTKCDFITQVEEEISRHYRRAHSCYKCRQCSFTAADTQSLLEHFNTVHCQEQDITTANGEEDGHAISTIKEEPKIDFRVYNLLTPDSKMGEPVSESVVKREKLEEKDGLKEKVWTESSSDDLRNVTWRGADILRGSPSYTQASLGLLTPVSGTQEQTKTLRDSPNVEAAHLARPIYGLAVETKGFLQGAPAGGEKSGALPQQYPASGENKSKDESQSLLRRRRGSGVFCANCLTTKTSLWRKNANGGYVCNACGLYQKLHSTPRPLNIIKQNNGEQIIRRRTRKRLNPEALQAEQLNKQQRGSNEEQVNGSPLERRSEDHLTESHQREIPLPSLSKYEAQGSLTKSHSAQQPVLVSQTLDIHKRMQPLHIQIKSPQESTGDPGNSSSVSEGKGSSERGSPIEKYMRPAKHPNYSPPGSPIEKYQYPLFGLPFVHNDFQSEADWLRFWSKYKLSVPGNPHYLSHVPGLPNPCQNYVPYPTFNLPPHFSAVGSDNDIPLDLAIKHSRPGPTANGASKEKTKAPPNVKNEGPLNVVKTEKVDRSTQDELSTKCVHCGIVFLDEVMYALHMSCHGDSGPFQCSICQHLCTDKYDFTTHIQRGLHRNNAQVEKNGKPKE |
| 2475 | sp|Q9ESQ5|TRPM4\_RAT | MVGQEKEQSWIPKIFRKKVCTTFIVDLHDDAGGTLCQCGQPRDAHPSVAVEDAFGAAVVTEWNSDEHTTEKPTDAYGDLDFTYSGRKSSNFLRLSDRTDPATVYSLVTRSWGFRAPNLVVSVLGGSEGPVLQTWLQDLLRRGLVRAAQSTGAWIVTGGLHTGIGRHVGVAVRDHQTASTGGSKVVAMGVAPWGVVRNRDMLINPKGSFPARYRWRGDPEDGVEFPLDYNYSAFFLVDDGTYGRMGGENRFRLRFESYVAQQKTGVGGTGIDIPVLLLLIEGDEKMLKRIEDATQAQLPCLLVAGSGGAADCLVETLEDTLAPGSGGLRRGEARDRIRRYFPKGDPEVLQAQVERIMTRKELLTVYSSEDGSEEFETIVLRALVKACGSSEASAYLDELRLAVAWNRVDIAQSELFRGDIQWRSFHLEASLMDALLNDRPEFVRLLISHGLSLGHFLTPVRLAQLYSAVSPNSLIRNLLDQASHASSSKSPPANGAAELRPPNVGQVLRTLLGETCAPRYPARNTRHSLLGQDHRENDSLLMDWANMQQDASFEQAPWSDLLIWALLLNRAQMAIYFWEKGSNSVASALGACLLLRVMARLEWEAEEAARRKDLAAKFESMSVDLFGECYHNSEYRAARLLLRRCPLWGEATCLQLAMQADARAFFAQDGVQSLLTQKWWGEMDSTNPIWALLLTFFCPPLIYTNLILFRKSEEEPTQKDLDFDMDSSMNGAGPLGPAEPSAKVALERRRRRRPGHTLCCGGCSKRWSYFWGAPVTAFLGNVVSYLLFLLLFAHVLLVDFQPTKPGVFELLLYFWAFTLLCEELRQGLGGGWGTLANGGPGPGKAPLRHRLHLYLLDTWNQCDLLALTCFLLGVGCRLTPGLFDLGRTVLCLDFMIFTLRLLHIFTVNKQLGPKIVIVSKMMKDVFFFLFFLCVWLVAYGVATEGILRPQDRSLPSILRRVFYRPYLQIFGQIPQEEMDVALMNPSNCSAERGSWAHPEGPVAGSCVSQYANWLVVLLLIVFLLVANILLLNLLIAMFSYTFNKVHGNSDLYWKAQRYSLIREFHSRPALAPPLIIISHLRLLFKWLRRCHRTNLPASPVFEHFRVCLSKEAERTLLTWESVHKENFLLAQARDKRDSDSERLKRTSQKVDTALKQLGQIREYDRRLRGLEREVQHCSRVLTWMAEALSHSALLPPGGPPPPSPTGSKD |
| 2476 | sp|P53007|TXTP\_HUMAN | MPAPRAPRALAAAAPASGKAKLTHPGKAILAGGLAGGIEICITFPTEYVKTQLQLDERSHPPRYRGIGDCVRQTVRSHGVLGLYRGLSSLLYGSIPKAAVRFGMFEFLSNHMRDAQGRLDSTRGLLCGLGAGVAEAVVVVCPMETIKVKFIHDQTSPNPKYRGFFHGVREIVREQGLKGTYQGLTATVLKQGSNQAIRFFVMTSLRNWYRGDNPNKPMNPLITGVFGAIAGAASVFGNTPLDVIKTRMQGLEAHKYRNTWDCGLQILKKEGLKAFYKGTVPRLGRVCLDVAIVFVIYDEVVKLLNKVWKTD |
| 2477 | sp|Q925B3|TRPM7\_RAT | MSQKSWIESTLTKRECVYIIPSSKDPHRCLPGCQICQQLVRCFCGRLVKQHACFTASLATKYSDVKLGEHFNQAIEEWSVEKHTEQSPTDAYGVINFQGGSHSYRAKYVRLSYDTKPEIILQLLLKEWQMELPKLVISVHGGMQKFELHPRIKQLLGKGLIKAAVTTGAWILTGGVNTGVAKHVGDALKEHASRSSRKICTIGIAPWGVIENRNDLVGRDVVAPYQTLLNPLSKLNVLNNLHSHFILVDDGTVGKYGAEVRLRRELEKTINQQRIHARIGQGVPVVALIFEGGPNVILTVLEYLQESPPVPVVVCEGTGRAADLLAYIHKQTEEGGNLPDAAEPDIISTIKKTFNFGQSEAVHLFQTMMECMKKKELITVFHIGSEDHQDIDVAILTALXXGTNASAFDQLILTLAWDRVDIAKNHVFVYGQQWLVGSLEQAMLDALVMDRVSFVKLLIENGVSMHKFLTIPRLEELYNTKQGPTNPMLFHLIRDVKQGNLPPGYKITLIDIGLVIEYLMGGTYRCTYTRKRFRLIYNSLGGNNRRSGRNASSSTPQLRKSHETFGNRADKKEKMRHNHFIKTAQPYRPKMDASMEEGKKKRTKDEIVDIDDPETKRFPYPLNELLIWACLMKRQVMARFLWQHGEESMAKALVACKIYRSMAYEAKQSDLVDDTSEELKQYSNDFGQLAVELLEQSFRQDETMAMKLLTYELKNWSNSTCLKLAVSSRLRPFVAHTCTQMLLSDMWMGRLNMRKNSWYKVILSILVPPAILMLEYKTKAEMSHIPQSQDAHQMTMEDSENNFHNITEEIPMEVFKEVKILDSSEGKNEMEIHIKSKKLPITRKFYAFYHAPIVKFWFNTLAYLGFLMLYTFVVLVQMEQLPSVQEWIVIAYIFTYAIEKIREVFMSEAGKISQKIKVWFSDYFNVSDTIAIISFFVGFGLRFGAKWNYINAYDNHVFVAGRLIYCLNIIFWYVRLLDFLAVNQQAGPYVMMIGKMVANMFYIVVIMALVLLSFGVPRKAILYPHEEPSWSLAKDIVFHPYWMIFGEVYAYEIDVCANDSALPTICGPGTWLTPFLQAVYLFVQYIIMVNLLIAFFNNVYLQVKAISNIVWKYQRYHFIMAYHEKPVLPPPLIILSHIVSLFCCICKRRKKDKTSDGPKLFLTEEDQKKLHDFEEQCVEMYFDEKDDKFNSGSEERIRVTFERVEQMSIQIKEVGDRVNYIKRSLQSLDSQIGHLQDLSALTVDTLKTLTAQKASEASKVHNEITRELSISKHLAQNLIDDVPVRPMWKKPSVVNTLSSSLPQGDRESNNPFLCNIFMKDEKDPQYNLFGQDLPVIPQRKEFNIPEAGSSCGALFPSAVSPPELRQRRHGVEMLKIFNKNQKLGSSPNSSPHMSSPPTKFSVSTPSQPSCKSHLESTTKDPEPIFYKAAEGDNIEFGAFVGHRDSMDLQRFKETSNKIRELLSNDTPENTLKHVGAAGYNECHKTPTSLHSETESCSRRASTEDSPDVDSRAALLPDWLRDRPTNREMPSEGGTLNGLASPFKPVLDTNYYYSAVERNNLMRLSQSIPFVPVPPRGEPVTVYRLEESSPSILNNSMSSWSQLGLCAKIEFLSKEEMGGGLRRAVKVLCTWSEHDVLRSGHLYIIKSFLPEVINTWSSIYKEDTVLHLCLREIQQQRAAQKLTFAFNQMKPKSIPYSPRFLEVFLLYCHSAGQWFAVEECMTGEFRKYNNNNGDEIIPTNTLEEIMLAFSHWTYEYTRGELLVLDLQGVGENLTDPSVIKAEEKRSCDMVFGPANLGEDAIKNFRAKHHCNSCCRKLKLPDLKRNDYTPDKIIFPQDESSDLNLQAGNSTKESEATNSVRLML |
| 2478 | sp|Q8NET8|TRPV3\_HUMAN | MKAHPKEMVPLMGKRVAAPSGNPAILPEKRPAEITPTKKSAHFFLEIEGFEPNPTVAKTSPPVFSKPMDSNIRQCISGNCDDMDSPQSPQDDVTETPSNPNSPSAQLAKEEQRRKKRRLKKRIFAAVSEGCVEELVELLVELQELCRRRHDEDVPDFLMHKLTASDTGKTCLMKALLNINPNTKEIVRILLAFAEENDILGRFINAEYTEEAYEGQTALNIAIERRQGDIAALLIAAGADVNAHAKGAFFNPKYQHEGFYFGETPLALAACTNQPEIVQLLMEHEQTDITSRDSRGNNILHALVTVAEDFKTQNDFVKRMYDMILLRSGNWELETTRNNDGLTPLQLAAKMGKAEILKYILSREIKEKRLRSLSRKFTDWAYGPVSSSLYDLTNVDTTTDNSVLEITVYNTNIDNRHEMLTLEPLHTLLHMKWKKFAKHMFFLSFCFYFFYNITLTLVSYYRPREEEAIPHPLALTHKMGWLQLLGRMFVLIWAMCISVKEGIAIFLLRPSDLQSILSDAWFHFVFFIQAVLVILSVFLYLFAYKEYLACLVLAMALGWANMLYYTRGFQSMGMYSVMIQKVILHDVLKFLFVYIVFLLGFGVALASLIEKCPKDNKDCSSYGSFSDAVLELFKLTIGLGDLNIQQNSKYPILFLFLLITYVILTFVLLLNMLIALMGETVENVSKESERIWRLQRARTILEFEKMLPEWLRSRFRMGELCKVAEDDFRLCLRINEVKWTEWKTHVSFLNEDPGPVRRTDFNKIQDSSRNNSKTTLNAFEEVEEFPETSV |
| 2479 | sp|A0A1D5PXA5|TRPV4\_CHICK | MADPEDPRDAGDVLGDDSFPLSSLANLFEVEDTPSPAEPSRGPPGAVDGKQNLRMKFHGAFRKGPPKPMELLESTIYESSVVPAPKKAPMDSLFDYGTYRQHPSENKRWRRRVVEKPVAGTKGPAPNPPPILKVFNRPILFDIVSRGSPDGLEGLLSFLLTHKKRLTDEEFREPSTGKTCLPKALLNLSAGRNDTIPILLDIAEKTGNMREFINSPFRDVYYRGQTALHIAIERRCKHYVELLVEKGADVHAQARGRFFQPKDEGGYFYFGELPLSLAACTNQPHIVHYLTENGHKQADLRRQDSRGNTVLHALVAIADNTRENTKFVTKMYDLLLIKCAKLFPDTNLEALLNNDGLSPLMMAAKTGKIGIFQHIIRREIADEDVRHLSRKFKDWAYGPVYSSLYDLSSLDTCGEEVSVLEILVYNSKIENRHEMLAVEPINELLRDKWRKFGAVSFYISVVSYLCAMIIFTLIAYYRPMEGPPPYPYTTTIDYLRLAGEIITLLTGILFFFSNIKDLFMKKCPGVNSFFIDGSFQLLYFIYSVLVIVTAGLYLGGVEAYLAVMVFALVLGWMNALYFTRGLKLTGTYSIMIQKILFKDLFRFLLVYLLFMIGYASALVSLLNPCPSSESCSEDHSNCTLPTYPSCRDSQTFSTFLLDLFKLTIGMGDLEMLESAKYPGVFIILLVTYIILTFVLLLNMLIALMGETVGQVSKESKHIWKLQWATTILDIERSFPLFLRRVFRSGEMVTVGKGTDGTPDRRWCFRVDEVNWSHWNQNLGIISEDPGKSDTYQYYGFSHTVGRLRRDRWSTVVPRVVELNKSCPTEDVVVPLGTMGTAEARERRHGQTPSSPL |
| 2480 | sp|P11441|UBL4A\_HUMAN | MQLTVKALQGRECSLQVPEDELVSTLKQLVSEKLNVPVRQQRLLFKGKALADGKRLSDYSIGPNSKLNLVVKPLEKVLLEEGEAQRLADSPPPQVWQLISKVLARHFSAADASRVLEQLQRDYERSLSRLTLDDIERLASRFLHPEVTETMEKGFSK |
| 2481 | sp|Q6J1Y9|UBP19\_RAT | MSAGTSATGPRRGPPGLEEATSKKKQKDRANQESKDGDPRRVSMPRKEPTKDELLLDWRQSSDKVVVKLRVGTGPICLEEVDAAFTDTDCVVRLPDGRQWGGVFFAKIQSSCTKVQTRKGGLLQLALPKKVPLLTWPSLLKKPLGTQELVPGLRCQENGQELSPIALEPGSEPRRAKQEARNQKRAQGRGEVGSGASPGAQAGPSAKRAVHLCRGPEGEGSMDGPGPQGDAPSFLSDSATQVEAEEQLHVPPVNPQTSLLGSEKNLALLTVEKTVSPRSDSVSPVMIRNRDPEKDDHFKEEMAVGADPAALADEPESMVNLAFVKNDSYEKGPDSVVVHVYVKESRRDTSRVLFREQDFTLIFQTRDGNFLRLHPGCGPHTIFRWQVKLRNLIEPEQCTFCFTASRIDICLRKRQSQRWGGLEAPATRVGGAKVAVPTGPTPLDSTPPGGGPLPLTGQEEARAVEKEKPKARSEDSGLDGVVARTPLEHVTPKPEPHLASPKPTCMVPPMPHSPVSGDSVEEDEEEEKKVCLPGFTGLVNLGNTCFMNSVIQSLSNTRELRDFFHDRSFEAEINYNNPLGTGGRLAIGFAVLLRALWKGTHQAFQPSKLKAIVASKASQFTGYAQHDAQEFMAFLLDGLHEDLNRIQNKPYTETVDSDGRPDEVVAEEAWQRHKMRNDSFIVDLFQGQYKSKLVCPVCAKVSITFDPFLYLPVPLPQKQKVLPIYYFAREPHSKPIKFLVSVSKENSSASEVLESLSQSVHVKPESLRLAEVIKNRFHRVFLPSHSLDAVSPTDVLLCFELLSPELAKERVVVLEVQQRPQVPSIPISKCAACQRKQQSEDEKLKRCTRCYRVGYCNQFCQKTHWPDHKGLCRPENIGYPFLVSVPASRLTYARLAQLLEGYARYSVSVFQPPFQPGRMALESQSPGCTTLLSTSSLEAGDSEREPIQPSELQLVTPVAEGDTGAHRMWPPADRGPVPSTSGISSEMLASGPMEGCSLLAGERVSRPEAAVPGYQHSRESVSAHTPQFFIYKIDASSREQRLEDKGDTPLELGDDCSLALVWRNNERLQEFVLVASKELECAEDPGSAGEAARAGHFTLDQCLNLFTRPEVLAPEEAWYCPQCKQHREASKQLLLWRLPNVLIVQLKRFSFRSFIWRDKINDLVEFPVRNLDLSKFCIGQKEEQLPSYDLYAVINHYGGMIGGHYTACARLPSDRSSQRSDVGWRLFDDSTVTTVDESQVVTRYAYVLFYRRRNSPVERPPRAAHAEHHPDLGPAAEAAASQASRIWQELEAEEEMVPEGPGPLGPWGPQDWVGPPPRGPTTSDEGCLRYFVLGTVAALVALVLNVFYPLVSQSRWR |
| 2482 | sp|Q05776|UPS1\_YEAST | MVLLHKSTHIFPTDFASVSRAFFNRYPNPYSPHVLSIDTISRNVDQEGNLRTTRLLKKSGKLPTWVKPFLRGITETWIIEVSVVNPANSTMKTYTRNLDHTGIMKVEEYTTYQFDSATSSTIADSRVKFSSGFNMGIKSKVEDWSRTKFDENVKKSRMGMAFVIQKLEEARNPQF |
| 2483 | sp|P25386|USO1\_YEAST | MDIIQGLIQQPKIQSVDETIPTLCDRVENSTLISDRRSAVLGLKAFSRQYRESVIASGLKPLLNTLKRDYMDEDSVKAILETILILFIRGDGHDDLTRGWISQQSRLQNGKYPSPLVMKQEKEQVDQFSLWIADALTQSEDLIHLLVEFWEIDNFHIRLYTIQLLEAVMATRPLKARSALISLPTSISTMVSLLDDMHEPIRDEAILLLMAVVNDSPHVQKLVAFENIFERLFSIIEEEGGLRGSLVVNDCLSLINNILKYNTSNQTLFLETGNLPKLAHLLSEPISQDEVFFWNDQRIVNINTALDIVSLTVEPGNTVTTKHQNALLDSSVLMVVLRLAFFHNIPKKVRPVALLTAANMVRSNEHAQLEFSKIDVPYFDPSLPVNSTANGGPIKLIPVVSILINWMLYANSVHTFDTRVACSRLLKAYFMDNFDLQRDFLLKQVQLCNNSTNNVGDNAKENGGSNKSDKESDSDKDTDGKDGTEYEGSFKANLFEVLLNYDAELNLNPFKLFFTTDIFMFFFQQDHKYSEELREITRNVTTGNDLEDEEPLKAIQTISELLTTSLTAADIRIPISYLTFLIYWLFGDFKATNDFLSDKSVIKSLLSFSYQIQDEDVTIKCLVTMLLGVAYEFSSKESPFPRKEYFEFITKTLGKDNYASRIKQFKKDSYFSKVDMNEDSILTPELDETGLPKVYFSTYFIQLFNENIYRIRTALSHDPDEEPINKISFEEVEKLQRQCTKLKGEITSLQTETESTHENLTEKLIALTNEHKELDEKYQILNSSHSSLKENFSILETELKNVRDSLDEMTQLRDVLETKDKENQTALLEYKSTIHKQEDSIKTLEKGLETILSQKKKAEDGINKMGKDLFALSREMQAVEENCKNLQKEKDKSNVNHQKETKSLKEDIAAKITEIKAINENLEEMKIQCNNLSKEKEHISKELVEYKSRFQSHDNLVAKLTEKLKSLANNYKDMQAENESLIKAVEESKNESSIQLSNLQNKIDSMSQEKENFQIERGSIEKNIEQLKKTISDLEQTKEEIISKSDSSKDEYESQISLLKEKLETATTANDENVNKISELTKTREELEAELAAYKNLKNELETKLETSEKALKEVKENEEHLKEEKIQLEKEATETKQQLNSLRANLESLEKEHEDLAAQLKKYEEQIANKERQYNEEISQLNDEITSTQQENESIKKKNDELEGEVKAMKSTSEEQSNLKKSEIDALNLQIKELKKKNETNEASLLESIKSVESETVKIKELQDECNFKEKEVSELEDKLKASEDKNSKYLELQKESEKIKEELDAKTTELKIQLEKITNLSKAKEKSESELSRLKKTSSEERKNAEEQLEKLKNEIQIKNQAFEKERKLLNEGSSTITQEYSEKINTLEDELIRLQNENELKAKEIDNTRSELEKVSLSNDELLEEKQNTIKSLQDEILSYKDKITRNDEKLLSIERDNKRDLESLKEQLRAAQESKAKVEEGLKKLEEESSKEKAELEKSKEMMKKLESTIESNETELKSSMETIRKSDEKLEQSKKSAEEDIKNLQHEKSDLISRINESEKDIEELKSKLRIEAKSGSELETVKQELNNAQEKIRINAEENTVLKSKLEDIERELKDKQAEIKSNQEEKELLTSRLKELEQELDSTQQKAQKSEEERRAEVRKFQVEKSQLDEKAMLLETKYNDLVNKEQAWKRDEDTVKKTTDSQRQEIEKLAKELDNLKAENSKLKEANEDRSEIDDLMLLVTDLDEKNAKYRSKLKDLGVEISSDEEDDEEDDEEDEEEGQVA |
| 2484 | sp|Q9Y2B5|VP9D1\_HUMAN | MAAAAGDGTVKPLQSAMKLANGAIELDTGNRPREAYTEYLRSIHYISQVLLEEVETTKEAGETVPPDTSKMLKLAQQCLERAQSTAAKLGKTRLKPTMPAAAPIPQPAGRHRRVYSDEGGKLSPFLPPEIFQKLQGAESQSCKKELTPLEEASLQNQKLKAAYEARMARLDPSQAMQKTSLTLSLQRQMMENLVIAKAREETLQRKMEERRLRLQEAANRRFCSQVALTPEEREQRALYAAILEYEQDHDWPKHWKAKLKRNPGDLSLVTSLVSHLLSLPDHPIAQLLRRLQCSVYSALYPAVSRAAAPAPGCCPPTPNPGSRRLRPSQSLHCMLSPPEPSAAPRPQDSPPTPPLQPGPVGSPSPLGDTASGLPDKDSSFEDLEQFLGTSERQGRGRGVQPEPQLQQLKTAVEEIHNAVDRLLSLTLLAFEGLNTAASKDRCLACIEEPFFSPLWPLLLALYRSVHRAREAALSRSMELYRNAPPTAIGIPTKLLPQNPEAKGATGYPYCAAAQELGLLVLESCPQKKLECIVRTLRIICVCAEDYCPTPEATPQAGPPPIAAAAIGADDLLPILSFVVLRSGLPQLVSECAALEEFIHEGYLIGEEGYCLTSLQSALSYVELLPRGGLAK |
| 2485 | sp|P38932|VPS45\_YEAST | MNLFDVADFYINKIVTSQSKLSVANVNEHQRIKVLLLDKNTTPTISLCATQSELLKHEIYLVERIENEQREVSRHLRCLVYVKPTEETLQHLLRELRNPRYGEYQIFFSNIVSKSQLERLAESDDLEAVTKVEEIFQDFFILNQDLFSFDLQPREFLSNKLVWSEGGLTKCTNSLVSVLLSLKIKPDIRYEGASKICERLAKEVSYEIGKNERTFFDFPVMDSTPVLLILDRNTDPITPLLQPWTYQSMINEYIGIKRNIVDLSKVPRIDKDLEKVTLSSKQDAFFRDTMYLNFGELGDKVKQYVTTYKDKTQTNSQINSIEDIKNFIEKYPEFRKLSGNVAKHMAIVGELDRQLKIKNIWEISEIEQNLSAHDANEEDFSDLIKLLQNEAVDKYYKLKLACIYSLNNQTSSDKIRQLVEILSQQLPPEDVNFFHKFKSLFSRQDKMTQSNHDKDDILTELARRFNSRMNSKSNTAENVYMQHIPEISSLLTDLSKNALFRDRFKEIDTQGHRVIGNQQSKDIPQDVILFVIGGVTYEEARLVHDFNGTMNNRMRVVLGGTSILSTKEYMDSIRSAK |
| 2486 | sp|Q9UID3|VPS51\_HUMAN | MAAAAAAGPSPGSGPGDSPEGPEGEAPERRRKAHGMLKLYYGLSEGEAAGRPAGPDPLDPTDLNGAHFDPEVYLDKLRRECPLAQLMDSETDMVRQIRALDSDMQTLVYENYNKFISATDTIRKMKNDFRKMEDEMDRLATNMAVITDFSARISATLQDRHERITKLAGVHALLRKLQFLFELPSRLTKCVELGAYGQAVRYQGRAQAVLQQYQHLPSFRAIQDDCQVITARLAQQLRQRFREGGSGAPEQAECVELLLALGEPAEELCEEFLAHARGRLEKELRNLEAELGPSPPAPDVLEFTDHGGSGFVGGLCQVAAAYQELFAAQGPAGAEKLAAFARQLGSRYFALVERRLAQEQGGGDNSLLVRALDRFHRRLRAPGALLAAAGLADAATEIVERVARERLGHHLQGLRAAFLGCLTDVRQALAAPRVAGKEGPGLAELLANVASSILSHIKASLAAVHLFTAKEVSFSNKPYFRGEFCSQGVREGLIVGFVHSMCQTAQSFCDSPGEKGGATPPALLLLLSRLCLDYETATISYILTLTDEQFLVQDQFPVTPVSTLCAEARETARRLLTHYVKVQGLVISQMLRKSVETRDWLSTLEPRNVRAVMKRVVEDTTAIDVQVGLLYEEGVRKAQSSDSSKRTFSVYSSSRQQGRYAPSYTPSAPMDTNLLSNIQKLFSERIDVFSPVEFNKVSVLTGIIKISLKTLLECVRLRTFGRFGLQQVQVDCHFLQLYLWRFVADEELVHLLLDEVVASAALRCPDPVPMEPSVVEVICERG |
| 2487 | sp|Q9H270|VPS11\_HUMAN | MAAYLQWRRFVFFDKELVKEPLSNDGAAPGATPASGSAASKFLCLPPGITVCDSGRGSLVFGDMEGQIWFLPRSLQLTGFQAYKLRVTHLYQLKQHNILASVGEDEEGINPLVKIWNLEKRDGGNPLCTRIFPAIPGTEPTVVSCLTVHENLNFMAIGFTDGSVTLNKGDITRDRHSKTQILHKGNYPVTGLAFRQAGKTTHLFVVTTENVQSYIVSGKDYPRVELDTHGCGLRCSALSDPSQDLQFIVAGDECVYLYQPDERGPCFAFEGHKLIAHWFRGYLIIVSRDRKVSPKSEFTSRDSQSSDKQILNIYDLCNKFIAYSTVFEDVVDVLAEWGSLYVLTRDGRVHALQEKDTQTKLEMLFKKNLFEMAINLAKSQHLDSDGLAQIFMQYGDHLYSKGNHDGAVQQYIRTIGKLEPSYVIRKFLDAQRIHNLTAYLQTLHRQSLANADHTTLLLNCYTKLKDSSKLEEFIKKKSESEVHFDVETAIKVLRQAGYYSHALYLAENHAHHEWYLKIQLEDIKNYQEALRYIGKLPFEQAESNMKRYGKILMHHIPEQTTQLLKGLCTDYRPSLEGRSDREAPGCRANSEEFIPIFANNPRELKAFLEHMSEVQPDSPQGIYDTLLELRLQNWAHEKDPQVKEKLHAEAISLLKSGRFCDVFDKALVLCQMHDFQDGVLYLYEQGKLFQQIMHYHMQHEQYRQVISVCERHGEQDPSLWEQALSYFARKEEDCKEYVAAVLKHIENKNLMPPLLVVQTLAHNSTATLSVIRDYLVQKLQKQSQQIAQDELRVRRYREETTRIRQEIQELKASPKIFQKTKCSICNSALELPSVHFLCGHSFHQHCFESYSESDADCPTCLPENRKVMDMIRAQEQKRDLHDQFQHQLRCSNDSFSVIADYFGRGVFNKLTLLTDPPTARLTSSLEAGLQRDLLMHSRRGT |
| 2488 | sp|Q0VD48|VPS4B\_BOVIN | MASTPTNLQKAIDLASKAAQEDKAGNYEEALQLYQHAVQYFLHVVKYEAQGDKAKQSIRAKCTEYLDRAEKLKEYLKKREKKPQKPVKEGQPAPADEKGNDSDGEGESDDPEKKKLQNQLQGAIVIERPNVKWSDVAGLEGAKEALKEAVILPIKFPHLFTGKRTPWRGILLFGPPGTGKSYLAKAVATEANNSTFFSISSSDLVSKWLGESEKLVKNLFQLARENKPSIIFIDEIDSLCGSRSENESEAARRIKTEFLVQMQGVGVDNDGILVLGATNIPWVLDSAIRRRFEKRIYIPLPEAHARAAMFKLHLGTTQNSLTEADFRDLGKKTEGYSGADISIIVRDALMQPVRKVQSATHFKKVRGPSRADPNNIVDDLLTPCSPGDPGAIEMTWMDVPGDKLLEPVVCMSDMLRSLSSTKPTVNEHDLLKLKKFTEDFGQEG |
| 2489 | sp|Q9BRG1|VPS25\_HUMAN | MAMSFEWPWQYRFPPFFTLQPNVDTRQKQLAAWCSLVLSFCRLHKQSSMTVMEAQESPLFNNVKLQRKLPVESIQIVLEELRKKGNLEWLDKSKSSFLIMWRRPEEWGKLIYQWVSRSGQNNSVFTLYELTNGEDTEDEEFHGLDEATLLRALQALQQEHKAEIITVSDGRGVKFF |
| 2490 | sp|Q9QZ88|VPS29\_MOUSE | MLVLVLGDLHIPHRCNSLPAKFKKLLVPGKIQHILCTGNLCTKESYDYLKTLAGDVHIVRGDFDENLNYPEQKVVTVGQFKIGLIHGHQVIPWGDMASLALLQRQFDVDILISGHTHKFEAFEHENKFYINPGSATGAYNALETNIIPSFVLMDIQASTVVTYVYQLIGDDVKVERIEYKKS |
| 2491 | sp|P14530|VM2HA\_PROFL | MIEVLLVTICLAVFPYPGSSIILESGNVDDYEVVYPQKLTALPKGAVQPKYEDAMQYEFKVNGEPVVLHLEKNKGLFSEDYSETHYSPDGREITTYPSVEDHCYYHGRIQNDADSTASISACDGLKGYFKLQGETYLIEPLELSDSEAHAVFKYENVEKEDEAPKMCGVTQNWESDESIKKASQLYLTPEQQRFPQRYIELAIVVDHGMYTKYSSNFKKIRKRVHQMVNNINEMYRPLNIAITLSLLDVWSEKDLITMQAVAPTTARLFGDWRETVLLKQKDHDHAQLLTDINFTGNTIGWAYMGGMCNAKNSVGIVKDHSSNVFMVAVTMTHEIGHNLGMEHDDKDKCKCEACIMSAVISDKPSKLFSDCSKDYYQTFLTNSKPQCIINAPLRTDTVSTPVSGNEFLEAGEECDCGSPSNPCCDAATCKLRPGAQCADGLCCDQCRFKKKRTICRRARGDNPDDRCTGQSADCPRNS |
| 2492 | sp|Q8RWZ7|VHAA1\_ARATH | MEEFLDKLPQMDLMRSEKMTLVQLIIPVESAHRSITYLGELGLLQFRDLNADKSPFQRTFANQVKRCGEMSRKLRFFKDQIDKAGLRCSPRLEIEPDIALGDLERQLADHEHEVLEMNSNSEKLRQTYNELLEFKIVLEKASGFLVSSNTHAIGEEIELHESTYSNNGFIETASLLEQEMNPGHSNQSGLRFISGIINKDKLLKFERMLFRATRGNMLFNQTTSDEEIMDPSTSEMVEKVVFVVFFSGEQARTKILKICEAFGANCYPVPEDTTKQRQLTREVLSRLSDLEATLDAGTRHRNNALNSVGYSLTNWITTVRREKAVYDTLNMLNFDVTKKCLVGEGWCPTFAKTQIHEVLQRATFDSSSQVGVIFHVMQAVESPPTYFRTNKLTNAFQEIIDAYGVARYQEANPAVYSVVTYPFLFAVMFGDWGHGLCLLLGALYLLARERKLSTQKLGSFMEMLFGGRYVILLMALFSIYCGLIYNEFFSVPFHIFGGSAYKCRDTTCSDAYTVGLIKYRDPYPFGVDPSWRGSRTELPYLNSLKMKMSILLGIAQMNLGLILSFFNARFFGSSLDIRYQFIPQMIFLNSLFGYLSLLIIIKWCTGSQADLYHVMIYMFLSPTEELGENELFWGQRPLQIVLLLLAFIAVPWMLFPKPFALRKIHMERFQGRTYGVLVSSEVDLDVEPDSARGGGHHEEEFNFSEIFVHQLIHSIEFVLGSVSNTASYLRLWALSLAHSELSTVFYEKVLLLAWGYENILIRLIGVAVFAFATAFILLMMETLSAFLHALRLHWVEFMGKFFNGDGYKFKPFSFALI |
| 2493 | sp|Q70PR7|VINSY\_RAUSE | MAPQMEKVSEELILPSSPTPQSLKCYKISHLDQLLLTCHIPFILFYPNPLDSNLDPAQTSQHLKQSLSKVLTHFYPLAGRINVNSSVDCNDSGVPFVEARVQAQLSQAIQNVVELEKLDQYLPSAAYPGGKIEVNEDVPLAVKISFFECGGTAIGVNLSHKIADVLSLATFLNAWTATCRGETEIVLPNFDLAARHFPPVDNTPSPELVPDENVVMKRFVFDKEKIGALRAQASSASEEKNFSRVQLVVAYIWKHVIDVTRAKYGAKNKFVVVQAVNLRSRMNPPLPHYAMGNIATLLFAAVDAEWDKDFPDLIGPLRTSLEKTEDDHNHELLKGMTCLYELEPQELLSFTSWCRLGFYDLDFGWGKPLSACTTTFPKRNAALLMDTRSGDGVEAWLPMAEDEMAMLPVELLSLVDSDFSK |
| 2494 | sp|P39115|VMLR\_BACSU | MKEIVTLTNVSYEVKDQTVFKHVNASVQQGDIIGIIGKNGAGKSTLLHLIHNDLAPAQGQILRKDIKLALVEQETAAYSFADQTPAEKKLLEKWHVPLRDFHQLSGGEKLKARLAKGLSEDADLLLLDEPTNHLDEKSLQFLIQQLKHYNGTVILVSHDRYFLDEAATKIWSLEDQTLIEFKGNYSGYMKFREKKRLTQQREYEKQQKMVERIEAQMNGLASWSEKAHAQSTKKEGFKEYHRVKAKRTDAQIKSKQKRLEKELEKAKAEPVTPEYTVRFSIDTTHKTGKRFLEVQNVTKAFGERTLFKNANFTIQHGEKVAIIGPNGSGKTTLLNIILGQETAEGSVWVSPSANIGYLTQEVFDLPLEQTPEELFENETFKARGHVQNLMRHLGFTAAQWTEPIKHMSMGERVKIKLMAYILEEKDVLILDEPTNHLDLPSREQLEETLSQYSGTLLAVSHDRYFLEKTTNSKLVISNNGIEKQLNDVPSERNEREELRLKLETERQEVLGKLSFMTPNDKGYKELDQAFNELTKRIKELDHQDKKD |
| 2495 | sp|Q9H267|VP33B\_HUMAN | MAFPHRPDAPELPDFSMLKRLARDQLIYLLEQLPGKKDLFIEADLMSPLDRIANVSILKQHEVDKLYKVENKPALSSNEQLCFLVRPRIKNMRYIASLVNADKLAGRTRKYKVIFSPQKFYACEMVLEEEGIYGDVSCDEWAFSLLPLDVDLLSMELPEFFRDYFLEGDQRWINTVAQALHLLSTLYGPFPNCYGIGRCAKMAYELWRNLEEEEDGETKGRRPEIGHIFLLDRDVDFVTALCSQVVYEGLVDDTFRIKCGSVDFGPEVTSSDKSLKVLLNAEDKVFNEIRNEHFSNVFGFLSQKARNLQAQYDRRRGMDIKQMKNFVSQELKGLKQEHRLLSLHIGACESIMKKKTKQDFQELIKTEHALLEGFNIRESTSYIEEHIDRQVSPIESLRLMCLLSITENGLIPKDYRSLKTQYLQSYGPEHLLTFSNLRRAGLLTEQAPGDTLTAVESKVSKLVTDKAAGKITDAFSSLAKRSNFRAISKKLNLIPRVDGEYDLKVPRDMAYVFGGAYVPLSCRIIEQVLERRSWQGLDEVVRLLNCSDFAFTDMTKEDKASSESLRLILVVFLGGCTFSEISALRFLGREKGYRFIFLTTAVTNSARLMEAMSEVKA |
| 2496 | sp|O35458|VIAAT\_RAT | MATLLRSKLTNVATSVSNKSQAKVSGMFARMGFQAATDEEAVGFAHCDDLDFEHRQGLQMDILKSEGEPCGDEGAEPPVEGDIHYQRGGAPLPPSGSKDQAVGAGGEFGGHDKPKITAWEAGWNVTNAIQGMFVLGLPYAILHGGYLGLFLIIFAAVVCCYTGKILIACLYEENEDGEVVRVRDSYVAIANACCAPRFPTLGGRVVNVAQIIELVMTCILYVVVSGNLMYNSFPGLPVSQKSWSIIATAVLLPCAFLKNLKAVSKFSLLCTLAHFVINILVIAYCLSRARDWAWEKVKFYIDVKKFPISIGIIVFSYTSQIFLPSLEGNMQQPSEFHCMMNWTHIAACVLKGLFALVAYLTWADETKEVITDNLPGSIRAVVNIFLVAKALLSYPLPFFAAVEVLEKSLFQEGSRAFFPACYGGDGRLKSWGLTLRCALVVFTLLMAIYVPHFALLMGLTGSLTGAGLCFLLPSLFHLRLLWRKLLWHQVFFDVAIFVIGGICSVSGFVHSLEGLIEAYRTNAED |
| 2497 | sp|Q87P32|VOPS\_VIBPA | MISFGNVSALQAAMPQARNEILNEGKLSIGGKEYTINAATQEFTRANPTSGAVARFFEATGKLFREGSTQSVAKAITKAVFDNEQGQAQRLQTSSSVEHGQMLFKDANLKTPSDVLNAFAKLDSKMVKSHAAELSQLAERAMTEVMLETDSGKNLKALIGDDAVKSLAVRVVKDYGGGVAAAQKNPEVRINQMQAVFDMEVMHLKAAQRHIEGLASTDLNQGVYAEGLPEDAFNKAGVTNNVERAAAWIINASNSKGNDAENITSLLKEYATNGKDLLNMDNLKELHARLVPNVERDYRGPNISGGTLPSSIGGEGMLKQHIEGFLKENPVADKDLGKHLFAGVIGYHGFTDGNGRMGRMLYAIAELRNDSFNPLAMNAENSLHGIK |
| 2498 | sp|Q64259|VHL\_RAT | MPRKAASPEEAERMPGSEEIEAGRPRPVLRSVNSREPSQVIFCNRSPRVVLPLWLNFDGEPQPYPTLPPGTGRRIHSYRGHLWLFRDAGTHDGLLVNQTELFVPSLNVDGQPIFANITLPVYTLKERCLQVVRSLVKPENYRRLDIVRSLYEDLEDHPNVRKDIQRLTQEHLENQALGEEPEGVH |
| 2499 | sp|P0C6E8|VM3G1\_TRIGA | KMCGVTQNWESYESTKKASQLNLTPEQQRFPQRYIKLGIFVDHGMYTKYSGNSERITKRVHQMINNINMMCRALNIVTTLSLLEIWSEKDLITVQASAPTTLTLFGAWRETVLLNRTSHDHAQLLTATIFNGNVIGRAPVGGMCDPKRSVAIVRDHNAIVFVVAVTMTHEMGHNLGNHHDEDKCNCNTCIMSKVLSRQPSKYFSECSKDYYQTFLTNHNFQCILNAPLRTDTVSTPVSGNELLEAGEDCDCGSPANPCCDAATCKLRPGAQCGEGLCCDQCRFTSAGTECRAARSECDIAESCAGQSADCPTDDFHRNGQPCLNNHGYCYNGNCPIMFYQCIALFGSNATVGQDGCFDANDIGHKYFHCRKDNEKYIPCAPQDVKCGRLFCTYIYDIDLCRYDDSANGMVAQGTKCADGKVCNSNRQCADVNTAY |
| 2500 | sp|P49766|VEGFB\_MOUSE | MSPLLRRLLLVALLQLARTQAPVSQFDGPSHQKKVVPWIDVYARATCQPREVVVPLSMELMGNVVKQLVPSCVTVQRCGGCCPDDGLECVPTGQHQVRMQILMIQYPSSQLGEMSLEEHSQCECRPKKKESAVKPDRVAIPHHRPQPRSVPGWDSTPGASSPADIIHPTPAPGSSARLAPSAVNALTPGPAAAAADAAASSIAKGGA |
| 2501 | sp|Q4QNL7|VAPC1\_HAEI8 | MIYMLDTNIIIYLMKNRPKIIAERVSQLLPNDRLVMSFITYAELIKGAFGSQNYEQSIRAIELLTERVNVLYPNEQICLHYGKWANTLKKQGRPIGNNDLWIACHALSLNAVLITHNVKEFQRITDLQWQDWTK |
| 2502 | sp|Q99536|VAT1\_HUMAN | MSDEREVAEAATGEDASSPPPKTEAASDPQHPAASEGAAAAAASPPLLRCLVLTGFGGYDKVKLQSRPAAPPAPGPGQLTLRLRACGLNFADLMARQGLYDRLPPLPVTPGMEGAGVVIAVGEGVSDRKAGDRVMVLNRSGMWQEEVTVPSVQTFLIPEAMTFEEAAALLVNYITAYMVLFDFGNLQPGHSVLVHMAAGGVGMAAVQLCRTVENVTVFGTASASKHEALKENGVTHPIDYHTTDYVDEIKKISPKGVDIVMDPLGGSDTAKGYNLLKPMGKVVTYGMANLLTGPKRNLMALARTWWNQFSVTALQLLQANRAVCGFHLGYLDGEVELVSGVVARLLALYNQGHIKPHIDSVWPFEKVADAMKQMQEKKNVGKVLLVPGPEKEN |
| 2503 | sp|Q86V25|VASH2\_HUMAN | MTGSAADTHRCPHPKGAKGTRSRSSHARPVSLATSGGSEEEDKDGGVLFHVNKSGFPIDSHTWERMWMHVAKVHPKGGEMVGAIRNAAFLAKPSIPQVPNYRLSMTIPDWLQAIQNYMKTLQYNHTGTQFFEIRKMRPLSGLMETAKEMTRESLPIKCLEAVILGIYLTNGQPSIERFPISFKTYFSGNYFHHVVLGIYCNGRYGSLGMSRRAELMDKPLTFRTLSDLIFDFEDSYKKYLHTVKKVKIGLYVPHEPHSFQPIEWKQLVLNVSKMLRADIRKELEKYARDMRMKILKPASAHSPTQVRSRGKSLSPRRRQASPPRRLGRREKSPALPEKKVADLSTLNEVGYQIRI |
| 2504 | sp|Q9TVM2|XPO1\_DROME | MATMLTSDEAGKLLDFSQKLDINLLDKIVEVVYTAQGEQLRLAQSILTTLKEHPEAWTRVDSILEYSQNQRTKFYALQILEEVIKTRWKVLPRNQCEGIKKYVVSLIIKTSSDPIVMEQNKVYLNKLNMILVHILKREWPRNWETFISDIVGASKTNESLCMNNMVILKNLSEEVFDFSQGQITQTKAKHLKDTMCSEFSQIFTLCSFVLENSMNAALIHVTLETLLRFLNWIPLGYIFETQQIETLIFKFLSVPMFRNVTLKCLSEIAGLTAANYDENFATLFKDTMVQLEQIVGQNMNMNHVFKHGSDTEQELVLNLAMFLCTFLKEHGKLVEDAKYVDYLNQALMYLVMISEVEDVEVFKICLEYWNSLVEDLYNSEFFHPTLESTKRQQVYPRRRFYAPILSKVRFIMISRMAKPEEVLVVENENGEVVREFMKDTNSINLYKNMRETLVFLTHLDSVDTDRIMTLKLLNQVNGSEFSWKNLNTLCWAIGSISGAFCEEDEKRFLVTVIKDLLGLCEQKKGKDNKAIIASNIMYVVGQYPRFLRAHWKFLKTVVNKLFEFMHETHDGVQDMACDTFIKIAIKCRRYFVTIQPNEACTFIDEILTTMSSIICDLQPQQVHTFYEAVGYMISAQVDQVQQDVLIERYMQLPNQVWDDIISRASKNVDFLKNMTAVKQLGSILKTNVAACKALGHAYVIQLGRIYLDMLNVYKITSENIIQAIEVNGVNVNNQPLIKTMHVVKKETLNLISEWVSRSNDNQLVMDNFIPPLLDAILLDYQRCKVPSAREPKVLSAMAIIVHKLRQHITNEVPKIFDAVFECTLDMINKNFEDFPQHRLSFYELLQAVNAHCFKAFLNIPPAQFKLVFDSVVWAFKHTMRNVADMGLNILFKMLQNLDQHPGAAQSFYQTYFTDILMQIFSVVTDTSHTAGLPNHAIILAYMFSLVENRKITVNLGPIPDNMIFIQEYVASLLKSAFTHLSDNQVKVFVTGLFNLDENVQAFKEHLRDFLIQIREATGEDDSDLYLEEREAALAEEQSNKHQMQRNIPGMLNPHELPEDMQDE |
| 2505 | sp|Q9GZV5|WWTR1\_HUMAN | MNPASAPPPLPPPGQQVIHVTQDLDTDLEALFNSVMNPKPSSWRKKILPESFFKEPDSGSHSRQSSTDSSGGHPGPRLAGGAQHVRSHSSPASLQLGTGAGAAGSPAQQHAHLRQQSYDVTDELPLPPGWEMTFTATGQRYFLNHIEKITTWQDPRKAMNQPLNHMNLHPAVSSTPVPQRSMAVSQPNLVMNHQHQQQMAPSTLSQQNHPTQNPPAGLMSMPNALTTQQQQQQKLRLQRIQMERERIRMRQEELMRQEAALCRQLPMEAETLAPVQAAVNPPTMTPDMRSITNNSSDPFLNGGPYHSREQSTDSGLGLGCYSVPTTPEDFLSNVDEMDTGENAGQTPMNINPQQTRFPDFLDCLPGTNVDLGTLESEDLIPLFNDVESALNKSEPFLTWL |
| 2506 | sp|Q6GPH4|XAF1\_HUMAN | MEGDFSVCRNCKRHVVSANFTLHEAYCLRFLVLCPECEEPVPKETMEEHCKLEHQQVGCTMCQQSMQKSSLEFHKANECQERPVECKFCKLDMQLSKLELHESYCGSRTELCQGCGQFIMHRMLAQHRDVCRSEQAQLGKGERISAPEREIYCHYCNQMIPENKYFHHMGKCCPDSEFKKHFPVGNPEILPSSLPSQAAENQTSTMEKDVRPKTRSINRFPLHSESSSKKAPRSKNKTLDPLLMSEPKPRTSSPRGDKAAYDILRRCSQCGILLPLPILNQHQEKCRWLASSKGKQVRNFS |
| 2507 | sp|Q8QGV2|WEE1B\_XENLA | MNVQPRNMNVQPRNMNVQPVRHKLFFSDTDEEEEDGHSTGEDSAFQESDSPVSRQREKQEGKPPGGTWEELEEEEGFGSSPIKSPGDFFMSDSPSYRQLAPASPTRSPQGPTSPIPECPGTPPHKTFRKLRLFDTPHTPKSLLSKARGIGSSALRFRGGTLFREAEKAPKPEFVYSTPQVNINPFTPDSLEIQSSAGLCRGRKRALLNDSCGEDMEGSDCELEDEDIRPAKRIPITESNMKSRYATEFHELEKIGSGEFGSVFKCVKRLDGCIYAIKRSKKPLAGSVDEQNALREVYAHAVLGQHPHVVRYYSAWAEDDHMLIQNEYCNGGSLSDVISENYRTMQYFTEPELKDLLLQVARGLKYIHSMSLVHMDIKPSNIFISRTTLPNTAVEEADDEECGSGKVIYKIGDLGHVTRVSSPQVEEGDSRFLANEVLQENYTHLAKADIFALALTVWSAAGAEPFPTNGDQWHEIRQGKLPRVPQLLSQEFVDLIKLMISPDPEKRPSSVALVKHSVLLSASRKSAEQLRIELDAEKFKNALLQKELKKAQIAKAAAEERAHFPDRIATRSTTQNNRTTRLIGKKMNRSVSLTIY |
| 2508 | sp|Q9LMP1|WAK2\_ARATH | MKVQEGLFVVAVFYLAYTQLVKGQPRKECQTRCGNVAVEYPFGTSPGCYYPGDESFNLTCNEQEKLFFGNMPVINMSLSGQLRVRLVRSRVCYDSQGKQTDYIAQRTTLGNFTLSELNRFTVVGCNSYAFLRTSGVEKYSTGCISICDSATTKNGSCSGEGCCQIPVPRGYSFVRVKPHSFHNHPTVHLFNPCTYAFLVEDGMFDFHALEDLNNLRNVTTFPVVLDWSIGDKTCKQVEYRGVCGGNSTCFDSTGGTGYNCKCLEGFEGNPYLPNGCQDINECISSRHNCSEHSTCENTKGSFNCNCPSGYRKDSLNSCTRKVRPEYFRWTQIFLGTTIGFSVIMLGISCLQQKIKHRKNTELRQKFFEQNGGGMLIQRVSGAGPSNVDVKIFTEKGMKEATNGYHESRILGQGGQGTVYKGILPDNSIVAIKKARLGNRSQVEQFINEVLVLSQINHRNVVKVLGCCLETEVPLLVYEFINSGTLFDHLHGSLYDSSLTWEHRLRIATEVAGSLAYLHSSASIPIIHRDIKTANILLDKNLTAKVADFGASRLIPMDKEQLTTIVQGTLGYLDPEYYNTGLLNEKSDVYSFGVVLMELLSGQKALCFERPHCPKNLVSCFASATKNNRFHEIIDGQVMNEDNQREIQEAARIAAECTRLMGEERPRMKEVAAELEALRVKTTKYKWSDQYRETGEIEHLLGVQILSAQGETSSSIGYDSIRNVTTLDIEAGR |
| 2509 | sp|P54350|WEE1\_DROME | MAFRQSEHEMSVTSLDSSVELRSRSPSPQVFNPRKLRFADDDFDKDTPEGASPQHPLQQRPKLSSGEEQQLDSKIGKEGGDGDVSMSPPCQKVRALRLFSTPATPKTILQKSTTQCSNHLSAAAAAVNASRRSDDLFRLSERPRSLPLHNRKLPTQDTANVNPFTPDSLMAHNKKRCRTQFGRENLNLNVNAMQKYLLSDACDDDVTEEAGDSMREIHQQAPKRLALHDTNISRFKREFMQVNVIGVGEFGVVFQCVNRLDGCIYAIKKSKKPVAGSSFEKRALNEVWAHAVLGKHDNVVRYYSAWAEDDHMLIQNEFCDGGSLHARIQDHCLGEAELKIVLMHVIEGLRYIHSNDLVHMDLKPENIFSTMNPNAHKLVEVQPQQTKDDDGMDSVYEELRHSENLVTYKIGDLGHVTSVKEPYVEEGDCRYLPKEILHEDYSNLFKADIFSLGITLFEAAGGGPLPKNGPEWHNLRDGKVPILPSLSRDFNELIAQMMHPYPDKRPTSQSIFSHPILSAVDSKSKLQLGLELTVEKRKNEILMNKLREAKKQIKLLEQRVNLLAVTNNPDSLDGQRCLRSFTRRMRTPFSSHGKFDSISDRNKNVITNI |
| 2510 | sp|P70701|WN10A\_MOUSE | MGSAHPRPWLRLPQGPQPRPEFWALLFFLLLLAAAVPRSAPNDILGLRLPPEPVLNANTVCLTLPGLSRRQMEVCVRHPDVAASAIQGIQIAIHECQHQFRDQRWNCSSLETRNKVPYESPIFSRGFRESAFAYAIAAAGVVHAVSNACALGKLKACGCDASRRGDEEAFRRKLHRLQLDALQRGKGLSHGVPEHPAILPASPGLQDSWEWGGCSPDVGFGERFSKDFLDSREPHRDIHARMRLHNNRVGRQAVMENMRRKCKCHGTSGSCQLKTCWQVTPEFRTVGALLRNRFHRATLIRPHNRNGGQLEPGPAGAPSPAPGTPGLRRRASHSDLVYFEKSPDFCEREPRLDSAGTVGRLCNKSSTGPDGCGSMCCGRGHNILRQTRSERCHCRFHWCCFVVCEECRITEWVSVCK |
| 2511 | sp|Q3UH66|WNK2\_MOUSE | MDGDGGRRDAPGALMEAGRGTGSAGMAEPRARAARLGPQRFLRRSVVESDQEEPPGLEAAETPSAQPPQPLQRRVLLLCKTRRLIAERARGRPAAPAPAAPAAPPGSPSVPSDPGPERAGTQEPSPDPTTASAAATQVPDGGPRQEEAPAPTQEDAGTTEAKPEPGRARKDEPEEEEDDEDDLKAVATSLDGRFLKFDIELGRGSFKTVYKGLDTETWVEVAWCELQDRKLTKLERQRFKEEAEMLKGLQHPNIVRFYDFWESSAKGKRCIVLVTELMTSGTLKTYLKRFKVMKPKVLRSWCRQILKGLLFLHTRTPPIIHRDLKCDNIFITGPTGSVKIGDLGLATLKRASFAKSVIGTPEFMAPEMYEEHYDESVDVYAFGMCMLEMATSEYPYSECQNAAQIYRKVTCGIKPASFEKVHDPEIKEIIGECICKNKEERYEIKDLLSHAFFAEDTGVRVELAEEDHGRKSTIALRLWVEDPKKLKGKPKDNGAIEFTFDLEKETPDEVAQEMIDSGFFHESDVKIVAKSIRDRVALIQWRRERIWPALQSQEPKDSGSPDKARGLPAPLQVQVTYHAQSGQPGQPEPEEPEADQHLLPPTLPASVTSLASDSTFDSGQGSTVYSDSQSSQQSMVLSSLVDTAPTPASCVCSPPVSEGPGLTHSLPTLGAFQQPATVPGLSVGPVPPPARPPLLQQHFPESSMSFTPVLPPPSTPVPTGPSQPAPPVQQPLPMAQPPTLPQVLAPQPMGTVQPVPSHLPPYLAPTSQVVAPAQLKPLQMPQPPLQPLAQVPPQMPQMPVVPPITPLTGLDGLPQTLTDLPAANVAPVPPPQYFSPAVILPSLTTPLPTSPALPMQAVKLPHPPGTPLAVPCQTIVPNAPAAIPLLAVAPQGVAALSIHPAVAQIPAQPVYPAAFPQMVPGDIPPSPHHTVQSLRATPPQLASPVPPQPVQPSVIHLPEQAAPTAASGTQVLLGHPPSYTADVAAPVSAVSLPPAVLSPPLPDTLLPTVPDLLPKVPSSLAPTVVAASQSAPAQTSSLLLPTNPPLPTGPAVAGPCPAVQLMVEVAQEEQVSQDKPPGPPQSSESFGGSDVTSGRDLSDSCEGTFGGGRLEGRTARKHHRRSTRARSRQERASRPRLTILNVCNTGDKMVECQLETHNHKMVTFKFDLDGDAPDEIATYMVEHDFILPAERETFIEQMKDVMDKAEDMLSEDTDADHGSDTGTSPPHLGTCGLATGEENRQSQANAPVYQQNVLHTGKRWFIICPVAEHPATDTSESSPPLPLSSLQPEASQDPAPYPDQLSLTDKPSFPAAQQLLSQAGSSNPPGGASAPLAPSSPPVTTVIPAAPATSTVPESAAGTAMQAGGPGTHQGPASVHETLQPLAETRSAQCTAQPLSTGQGPCTPALEASRCSTGLGEPISTREVSTQGEPLPASVPEPSPPTGATQSVPGQPPPPLPITVGAISLAAPQLPSPPLGPTAPPPPPSALESDGEGPPPRVGFVDNTIKSLDEKLRTLLYQEHVPTSSASAGTPMEASDRDFTLEPLRGDLPSALSDKTPSLTQQTQPSLEKSETAPAGWALAQREQGASSPMTAESSSSNTLGCDSDAGQVASDSSTAPSVPQDASGSSVPTHMDPKDQNSSVPREALAAPMQSGPGSFTVGSPAQLRGARDSGSPHKRPGQQDNSSPAKTVGRFSVVSTQDEWTLASPHSLRYSAPPDVYLDEIPSSPEVKLAVRRVQTASSIEVGVEEPASSDSGDERPRRRSQVQKQSSLPGTGGVASDFVKKATAFLHRSSRAGSLGPETPSRAGVKVPTISITSFHSQSSYISSDNDSEFEDADIKKELRSLREKHLKEISELQSQQKQEIEALYRRLGKPLPPNVGFFHTAPPMGRRRKTSKSKLKAGKLLNPLVQQLKVVASSTGHLSDSSRGPPTKDPRGTKAVQTQQPCSVRASLSTDICSGLASDGGGARGQGWTVYHPTSERGAYKSSSKPRARFLSGPVSVSIWSALKRLCLGKEHSSSLYDSPGSSTSSLAPGPEPGPQPTLHVQAQVNNSNNKKGTFTDDLHKLVDEWTTKTVGAAQVKPTLNQLKQTQKLHDMEASGDARATSVPRAAVGASCLAPAPGPLSTTATPGATPALPVPIPDPESEKPD |
| 2512 | sp|C0LGN2|Y3148\_ARATH | MSLNRQLLFTYYFIVSLILFSDFVSSATLPKEEVDALQSVATALKKSNWNFSVDPCDETLSEGGWRNPNAAKGFEDAVTCNCSSVICHVTNIVLKAQDLQGSLPTDLSGLPFLQELDLTRNYLNGSIPPEWGASSLLNISLLGNRISGSIPKELGNLTTLSGLVLEYNQLSGKIPPELGNLPNLKRLLLSSNNLSGEIPSTFAKLTTLTDLRISDNQFTGAIPDFIQNWKGLEKLVIQASGLVGPIPSAIGLLGTLTDLRITDLSGPESPFPPLRNMTSMKYLILRNCNLTGDLPAYLGQNRKLKNLDLSFNKLSGPIPATYSGLSDVDFIYFTSNMLNGQVPSWMVDQGDTIDITYNNFSKDKTEECQQKSVNTFSSTSPLVANNSSNVSCLSKYTCPKTFYGLHINCGGNEITSNETKYDADTWDTPGYYDSKNGWVSSNTGNFLDDDRTNNGKSKWSNSSELKITNSSIDFRLYTQARLSAISLTYQALCLGKGNYTVNLHFAEIMFNEKNMYSNLGRRYFDIYVQGKREVKDFNIVDEAKGVGKAVVKKFPVMVTNGKLEIRLQWAGKGTQAIPVRGVYGPLISAVSVDPDFIPPKEPGTGTGGGSSVGTVVGSVIASTVFLVLLIGGILWWRGCLRPKSQMEKDFKNLDFQISSFSLRQIKVATDNFDPANKIGEGGFGPVHKGIMTDGTVIAVKQLSAKSKQGNREFLNEIAMISALQHPHLVKLYGCCVEGDQLLLVYEYLENNSLARALFGPQETQIPLNWPMRQKICVGIARGLAYLHEESRLKIVHRDIKATNVLLDKELNPKISDFGLAKLDEEENTHISTRVAGTYGYMAPEYAMRGHLTDKADVYSFGVVALEIVHGKSNTSSRSKADTFYLLDWVHVLREQNTLLEVVDPRLGTDYNKQEALMMIQIGMLCTSPAPGDRPSMSTVVSMLEGHSTVNVEKLLEASVNNEKDEESVRAMKRHYATIGEEEITNTTTTDGPFTSSSTSTANANDLYPVKLDSAYWNTRT |
| 2513 | sp|Q9Z2C8|YBOX2\_MOUSE | MSEAEASVVATAAPAATVPATAAGVVAVVVPVPAGEPQKAGGGAGGGGGAASGPAAGTPLHAPGPRTPGNQATAASGTPAPPARSQADKPVLAIQVLGTVKWFNVRNGYGFINRNDTKEDVFVHQTAIKRNNPRKFLRSVGDGETVEFDVVEGEKGARAANVTGPGGVPVKGSRYAPNRRRFRRFIPRPRPAAPPPMVAEAPSGGTEPGSEGERAEDSGQRPRRRRPPPFFYRRRFVRGPRPPNQQQPIEGSDGVEPKETAPLEGDQQQGDERVPPPRFRPRYRRPFRPRPPQQPTTEGGDGETKPSQGPTDGSRPEPQRPRNRPYFQRRRQQPPGPRQPIAAETSAPINSGDPPTTILE |
| 2514 | sp|P43587|YPI1\_YEAST | MSGNQMAMGSEQQQTVGSRTVSVEEVPAVLQLRATQDPPRSQEAMPTRHNVRWEENVIDNENMNKKKTKICCIFHPQNEDEEECNHHSDDDGSSSSGSSSSESENEKDLDFNERRQRRLERRHRKLEKKRSYSPNAYEIQPDYSEYRRKQQEKKD |
| 2515 | sp|Q05016|YM71\_YEAST | MSQGRKAAERLAKKTVLITGASAGIGKATALEYLEASNGDMKLILAARRLEKLEELKKTIDQEFPNAKVHVAQLDITQAEKIKPFIENLPQEFKDIDILVNNAGKALGSDRVGQIATEDIQDVFDTNVTALINITQAVLPIFQAKNSGDIVNLGSIAGRDAYPTGSIYCASKFAVGAFTDSLRKELINTKIRVILIAPGLVETEFSLVRYRGNEEQAKNVYKDTTPLMADDVADLIVYATSRKQNTVIADTLIFPTNQASPHHIFRG |
| 2516 | sp|P0A8Y3|YIHX\_ECOLI | MLYIFDLGNVIVDIDFNRVLGAWSDLTRIPLASLKKSFHMGEAFHQHERGEISDEAFAEALCHEMALPLSYEQFSHGWQAVFVALRPEVIAIMHKLREQGHRVVVLSNTNRLHTTFWPEEYPEIRDAADHIYLSQDLGMRKPEARIYQHVLQAEGFSPSDTVFFDDNADNIEGANQLGITSILVKDKTTIPDYFAKVLC |
| 2517 | sp|P27848|YIGL\_ECOLI | MYQVVASDLDGTLLSPDHTLSPYAKETLKLLTARGINFVFATGRHHVDVGQIRDNLEIKSYMITSNGARVHDLDGNLIFAHNLDRDIASDLFGVVNDNPDIITNVYRDDEWFMNRHRPEEMRFFKEAVFQYALYEPGLLEPEGVSKVFFTCDSHEQLLPLEQAINARWGDRVNVSFSTLTCLEVMAGGVSKGHALEAVAKKLGYSLKDCIAFGDGMNDAEMLSMAGKGCIMGSAHQRLKDLHPELEVIGTNADDAVPHYLRKLYLS |
| 2518 | sp|O13535|YH11B\_YEAST | MESQQLSNYPHISHGSACASVTSKEVHTNQDPLDVSASKIQEYDKASTKANSQQTTTPASSAVPENLHHASPQPASVPPPQNGPYPQQCMMTQNQANPSGWSFYGHPSMIPYTPYQMSPMYFPPGPQSQFPQYPSSVGTPLSTPSPESGNTFTDSSSADSDMTSTKKYVRPPPMLTSPNDFPNWVKTYIKFLQNSNLGGIIPTVNGKPVPPMLTSPNDFPNWVKTYIKFLQNSNLGGIIPTVNGKPVRQITDDELTFLYNTFQIFAPSQFLPTWVKDILSVDYTDIMKILSKSIEKMQSDTQEANDIVTLANLQYNGSTPADAFETKVTNIIDRLNNNGIHINNKVACQLIMRGLSGEYKFLRYTRHRHLNMTVAELFLDIHAIYEEQQGSRNSKPNYRRNPSDEKNDSRSYTNTTKPKVIARNPQKTNNSKSKTARAHNVSTSNNSPSTDNDSISKSTTEPIQLNNKHDLHLGQKLTESTVNHTNHSDDELPGHLLLDSGASRTLIRSAHHIHSASSNPDINVVDAQKRNIPINAIGDLQFHFQDNTKTSIKVLHTPNIAYDLLSLNELAAVDITACFTKNVLERSDGTVLAPIVKYGDFYWVSKKYLLPSNISVPTINNVHTSESTRKYPYPFIHRMLAHANAQTIRYSLKNNTITYFNESDVDWSSAIDYQCPDCLIGKSTKHRHIKGSRLKYQNSYEPFQYLHTDIFGPVHNLPKSAPSYFISFTDETTKFRWVYPLHDRREDSILDVFTTILAFIKNQFQASVLVIQMDRGSEYTNRTLHKFLEKNGITPCYTTTADSRAHGVAERLNRTLLDDCRTQLQCSGLPNHLWFSAIEFSTIVRNSLASPKSKKSARQHAGLAGLDISTLLPFGQPVIVNDHNPNSKIHPRGIPGYALHPSRNSYGYIIYLPSLKKTVDTTNYVILQGKESRLDQFNYDALTFDEDLNRLTASYHSFIASNEIQQSNDLNIESDHDFQSDIELHPEQLRNVLSKAVSPTDSTPPSTHTEDSKRVSKTNIRAPREVDPNISESNILPSKKRSSTPQISDIESTGSGGMHRLDVPLLAPMSQSNTHESSHASKSKDFRHSDSYSDNETNHTNVPISSTGGTNNKTVPQTSEQETEKRIIHRSPSIDTSSSESNSLHHVVPIKTSDTCPKENTEESIIADLPLPDLPPEPPTELSDSFKELPPINSHQTNSSLGGIGDSNAYTTINSKKRSLEDNETEIKVSRDTWNTKNMRSLEPPRSKKRIHLIAAVKAVKSIKPIRTTLRYDEAITYNKDIKEKEKYIQAYHKEVNQLLMMKTWDTDRYYDRKEIDPKRVINSMFIFNRKRDGTHKARFVARGDIQHPDTYDPGMQSNTVHHYALMTSLSLALDNNYYITQLDISSAYLYADIKEELYIRPPPHLGMNDKLIRLKKSLYGLKQSGANWYETIKSYLIKQCGMEEVRGWSCVFKNSQVTICLFVDDMILFSKDLNANKKIITTLKKQYDTKIINLGESDNEIQYDILGLEIKYQRGKYMKLGMENSLTEKIPKLNVPLNPKGRKLSAPGQPGLYIDQDELEIDEDEYKEKVHEMQKLIGLASYVGYKFRFDLLYYINTLAQHILFPSRQVLDMTYELIQFMWDTRDKQLIWHKNKPTEPDNKLVAISDASYGNQPYYKSQIGNIYLLNGKVIGGKSTKASLTCTSTTEAEIHAISESVPLLNNLSHLVQELNKKPITKGLLTDSKSTISIIISNNEEKFRNRFFGTKAMRLRDEVSGNHLHVCYIETKKNIADVMTKPLPIKTFKLLTNKWIH |
| 2519 | sp|Q969M3|YIPF5\_HUMAN | MSGFENLNTDFYQTSYSIDDQSQQSYDYGGSGGPYSKQYAGYDYSQQGRFVPPDMMQPQQPYTGQIYQPTQAYTPASPQPFYGNNFEDEPPLLEELGINFDHIWQKTLTVLHPLKVADGSIMNETDLAGPMVFCLAFGATLLLAGKIQFGYVYGISAIGCLGMFCLLNLMSMTGVSFGCVASVLGYCLLPMILLSSFAVIFSLQGMVGIILTAGIIGWCSFSASKIFISALAMEGQQLLVAYPCALLYGVFALISVF |
| 2520 | sp|Q9SVY1|ZWIP2\_ARATH | MTDPYSNFFTDWFKSNPFHHYPNSSTNPSPHPLPPVTPPSSFFFFPQSGDLRRPPPPPTPPPSPPLREALPLLSLSPANKQQDHHHNHDHLIQEPPSTSMDVDYDHHHQDDHHNLDDDDHDVTVALHIGLPSPSAQEMASLLMMSSSSSSSRTTHHHEDMNHKKDLDHEYSHGAVGGGEDDDEDSVGGDGGCRISRLNKGQYWIPTPSQILIGPTQFSCPVCFKTFNRYNNMQMHMWGHGSQYRKGPESLRGTQPTGMLRLPCYCCAPGCRNNIDHPRAKPLKDFRTLQTHYKRKHGIKPFMCRKCGKAFAVRGDWRTHEKNCGKLWYCICGSDFKHKRSLKDHIKAFGNGHGAYGIDGFDEEDEPASEVEQLDNDHESMQSK |
| 2521 | sp|O54766|ZP1\_RAT | MAWGCFVVLLLLVAAPLRLGQHLHLKPGFQYSYDCGVQGMQLLVFPRPNQTIQFKVLDEFGNRFEVNNCSICYHWVISEAQKPAVFSADYKGCHVLEKQDGRFHLRVFIQAVLPNGRVDTAQDVTLICPKPDHILTPESYLAPPTTPQPFIPHTFALHPISGHTLAGSGHTGLTTLYPETHPTPAPPSSEPGPVGPTVPQSQWGTLGSWELTELDSIGTHLLQERCQVASGHIPCMVKGSSEEACQQAGCCYDNTKEMPCYYGNTVTLQCFRSGYFTLVMSQETALTHGVMLDNVHLAYAPNGCPPTQKTSAFVVFHVPLTLCGTAIQVVGKQLVYENQLVSNIEVQTGPQGSITRDGVFRLHVRCIFNASDFLPIRASIFSPQPPAPVTRSGPLRLELRIATDKTFSSYYQGSDYPLVRLLQEPVYIEVRLLQRTDPGLALMLHQCWATPSASPFEQPQWPILSDGCPFKGDNYRTQMVAADRATLPFWSHYQRFTIATFTLLDSSSQNALRGQVYFFCSASACHPVGSETCSTTCDSEIARHRRSSGHHNSTIRALDIVSSPGAVGFEDAPKLEPSGSTRNSGSRPLLWVLQLLALTLVLGDGVLVGLSWAWAWA |
| 2522 | sp|O97758|ZO1\_CANLF | MSARAAAAKNTAMEETAIWEQHTVTLHRAPGFGFGIAISGGRDNPHFQSGETSIVISDVLKGGPAEGQLQENDRVAMVNGVSMDNVEHAFAVQQLRKSGKNAKITIRRKKKVQIPVSRPDPEPVSENEDSYDEEVHDPRSSRGGLVSRRSEKSWARDRSASRERSLSPRSDRRSVASSQPPKPTKVTLVKSRKNEEYGLRLASHIFVKEISQDSLAARDGNIQEGDVVLKINGTVTENMSLTDAKTLIERSKGKLKMVVQRDERATLLNVPDLSDSIHSANASERDDISEIQSLASDHSGRSHDRPPRHSRSRSPDQRSEPSDHSRHSPQQPSSGSLRSREEERISKPGAVSTPVKHADDHTHKTVEEVVVERNEKQAPSLPEPKPVYAQVGQPDVDLPVSPSDGVLPNSTHEDGILRPSMKLVKFRKGDSVGLRLAGGNDVGIFVAGVLEDSPAAKEGLEEGDQILRVNNVDFTNIIREEAVLFLLDLPKGEEVTILAQKKKDVYRRIVESDVGDSFYIRTHFEYEKESPYGLSFNKGEVFRVVDTLYNGKLGSWLAIRIGKNHKEVERGIIPNKNRAEQLASVQYTLPKTAGGDRADFWRFRGLRSSKRNLRKSREDLSAQPVQTKFPAYERVVLREAGFLRPVTIFGPIADVAREKLAREEPDIYQIAKSEPRDAGTDQRSSGIIRLHTIKQIIDQDKHALLDVTPNAVDRLNYAQWYPIVVFLNPDSKQGVKTMRMRLCPESRKSARKLYERSHKLRKNNHHLFTTTINLNSMNDGWYGALKEAIQQQQNQLVWVSEGKADGATSDDLDLHDDRLSYLSAPGSEYSMYSTDSRHTSDYEDTDTEGGAYTDQELDETLNDEVGTPPESAITRSSEPVREDSSGMHHENQTYPPYSPQAQPQPIHRIDSPGFKTASQQKAEASSPVPYLSPETNPASSTSAVNHNVTLTNVRLEGPTPAPSTSYSPQADSLRTPSTEAAHIMLRDQEPSLPSHVEPAKVYRKDPYPEEMMRQNHVLKQPAVGHPGQRPDKEPNLSYESQPPYVEKQANRDLEQPTYRYDSSSYTDQFSRNYDHRLRYEERIPTYEEQWSYYDDKQPYQPRPSLDNQHPRDLDSRQHPEESSERGSYPRFEEPAPLSYDSRPRYDQPPRTSTLRHEEQPTPGYDMHNRYRPEAQSYSSAGPKASEPKQYFDQYPRSYEQVPSQGFSSKAGHYEPLHGAAVVPPLIPASQHKPEVLPSNTKPLPPPPTLTEEEEDPAMKPQSVLTRVKMFENKRSASLENKKDENHTAGFKPPEVASKPPGAPIIGPKPTPQNQFSEHDKTLYRIPEPQKPQMKPPEDIVRSNHYDPEEDEEYYRKQLSYFDRRSFENKPSTHIPAGHLSEPAKPVHSQNQTNFSSYSSKGKSPEADAPDRSFGEKRYEPVQATPPPPPLPSQYAQPSQPGTSSSLALHTHAKGAHGEGNSISLDFQNSLVSKPDPPPSQNKPATFRPPNREDTVQSTFYPQKSFPDKAPVNGAEQTQKTVTPAYNRFTPKPYTSSARPFERKFESPKFNHNLLPSETAHKPDLSSKAPASPKTLAKAHSRAQPPEFDSGVETFSIHADKPKYQMNNLSTVPKAIPVSPSAVEEDEDEDGHTVVATARGVFNNNGGVLSSIETGVSIIIPQGAIPEGVEQEIYFKVCRDNSILPPLDKEKGETLLSPLVMCGPHGLKFLKPVELRLPHCASMTPDGWSFALKSSDSSSGDPKTWQNKCLPGDPNYLVGANCVSVLIDHF |
| 2523 | sp|Q96PQ6|ZN317\_HUMAN | MAALSPTFATSTQDSTCLQDSEFPVSSKDHSCPQNLDLFVCSGLEPHTPSVGSQESVTFQDVAVDFTEKEWPLLDSSQRKLYKDVMLENYSNLTSLGYQVGKPSLISHLEQEEEPRTEERGAHQGACADWETPSKTKWSLLMEDIFGKETPSGVTMERAGLGEKSTEYAHLFEVFGMDPHLTQPMGRHAGKRPYHRRDYGVAFKGRPHLTQHMSMYDGRKMHECHQCQKAFTTSASLTRHRRIHTGEKPYECSDCGKAFNDPSALRSHARTHLKEKPFDCSQCGNAFRTLSALKIHMRVHTGERPYKCDQCGKAYGRSCHLIAHKRTHTGERPYECHDCGKAFQHPSHLKEHVRNHTGEKPYACTQCGKAFRWKSNFNLHKKNHMVEKTYECKECGKSFGDLVSRRKHMRIHIVKKPVECRQCGKTFRNQSILKTHMNSHTGEKPYGCDLCGKAFSASSNLTAHRKIHTQERRYECAACGKVFGDYLSRRRHMSVHLVKKRVECRQCGKAFRNQSTLKTHMRSHTGEKPYECDHCGKAFSIGSNLNVHRRIHTGEKPYECLVCGKAFSDHSSLRSHVKTHRGEKLFVSSVWKRLQ |
| 2524 | sp|Q9UK55|ZPI\_HUMAN | MKVVPSLLLSVLLAQVWLVPGLAPSPQSPETPAPQNQTSRVVQAPKEEEEDEQEASEEKASEEEKAWLMASRQQLAKETSNFGFSLLRKISMRHDGNMVFSPFGMSLAMTGLMLGATGPTETQIKRGLHLQALKPTKPGLLPSLFKGLRETLSRNLELGLTQGSFAFIHKDFDVKETFFNLSKRYFDTECVPMNFRNASQAKRLMNHYINKETRGKIPKLFDEINPETKLILVDYILFKGKWLTPFDPVFTEVDTFHLDKYKTIKVPMMYGAGKFASTFDKNFRCHVLKLPYQGNATMLVVLMEKMGDHLALEDYLTTDLVETWLRNMKTRNMEVFFPKFKLDQKYEMHELLRQMGIRRIFSPFADLSELSATGRNLQVSRVLQRTVIEVDERGTEAVAGILSEITAYSMPPVIKVDRPFHFMIYEETSGMLLFLGRVVNPTLL |
| 2525 | sp|Q96EG3|ZN837\_HUMAN | MEAPAQKAGQGGLPKADAQGASGAREKRPEEPRPLEEDRAGSRPTQKGDLRGAAGGRTTPPGGGSRGCSLGVSPGPGTRHSAGTRPLVREPCGPTSSQNPELVIPEGLQAREGPCRSPARGGDCSRNSCLAWHRGAPAGETPPVCDPCPERIQNHPRTQLCEVHTDCWPCQPGTGAPTCPRTPKPTSRGRNPLVEQPRACACGEAFAWRALRIPQERLQATEEPRPCARCGKRFRPNQQQQAGKSPPVCPECGQTSRPRPIVPDPPAQRLYACDECGKAFTRTSSLLQHQRIHTGERPYECAECGKAFVRCSGLYRHQKTHSAERHRRGPVLARRAFRLGCPPCGDYSERSPRRGSGAGEKPYECADCAKAFGLFSHLVEHRRVHTGEKPYACPECGKAFNQRSNLSRHQRTHSSAKPYACPLCEKAFKGRSGLVQHQRAHTGERPYGCSECGKTFRGCSELRQHERLHSGEKPYICRDCGKAFVRNCSLVRHLRTHTGERPYACGDCGRAFSQRSNLNEHRKRHGGRAAP |
| 2526 | sp|Q9UK33|ZN580\_HUMAN | MLLLPPRPPHPRSSSPEAMDPPPPKAPPFPKAEGPSSTPSSAAGPRPPRLGRHLLIDANGVPYTYTVQLEEEPRGPPQREAPPGEPGPRKGYSCPECARVFASPLRLQSHRVSHSDLKPFTCGACGKAFKRSSHLSRHRATHRARAGPPHTCPLCPRRFQDAAELAQHVRLH |
| 2527 | sp|O95159|ZFPL1\_HUMAN | MGLCKCPKRKVTNLFCFEHRVNVCEHCLVANHAKCIVQSYLQWLQDSDYNPNCRLCNIPLASRETTRLVCYDLFHWACLNERAAQLPRNTAPAGYQCPSCNGPIFPPTNLAGPVASALREKLATVNWARAGLGLPLIDEVVSPEPEPLNTSDFSDWSSFNASSTPGPEEVDSASAAPAFYSQAPRPPASPGRPEQHTVIHMGNPEPLTHAPRKVYDTRDDDRTPGLHGDCDDDKYRRRPALGWLARLLRSRAGSRKRPLTLLQRAGLLLLLGLLGFLALLALMSRLGRAAADSDPNLDPLMNPHIRVGPS |
| 2528 | sp|E9PYI1|ZN568\_MOUSE | MERLSQMAGRRAWCAEDSVPRQEEEDRTRPSKTVTFKDVAVDLTQEEWQQMKPAQRALYRDVMLETYSNLVTVGCQVTKPDVIFKLEQAEEPWVLEEEMFWRRSPEAARGRMKSFAFKDMAKDLRFEDVVIYFSLEEWECLRHSHRNLYRAVMLDNYSNLLSLSLADTKPRVVSLLEQGKEPWMVMRNETKIWHPDWVSRTEAKDSSKIKTLQEKMAKKHTCPTLEDSKTRGDREVTRELEGQQVHQEGHLRQAAVTSVERPDSVQCTAHREAHPGGKPCSSEKSQKTSLCQPPPIEREQLHSKAKASEHAQHGKVFNSCTSDTAVHPRPQESRKDSERKKSALAGGPDTSKPQSAQGSERPHKCKECGKAFHTPSQLSHHQKLHVGEKPYKCQECGKAFPSNAQLSLHHRVHTDEKCFECKECGKAFMRPSHLLRHQRIHTGEKPHKCKECGKAFRYDTQLSLHLLTHAGARRFECKDCDKVYSCASQLALHQMSHTGEKPHKCKECGKGFISDSHLLRHQSVHTGETPYKCKECGKGFRRGSELARHQRAHSGDKPYKCKECGKSFTCTTELFRHQKVHTGDRPHKCKECGKAFIRRSELTHHERSHSGEKPYECKECGKTFGRGSELSRHQKIHTGEKPYKCQQCGKAFIRGSHLTQHQRIHTGRRSE |
| 2529 | sp|Q8WTX9|ZDHC1\_HUMAN | MYKMNICNKPSNKTAPEKSVWTAPAQPSGPSPELQGQRSRRNGWSWPPHPLQIVAWLLYLFFAVIGFGILVPLLPHHWVPAGYACMGAIFAGHLVVHLTAVSIDPADANVRDKSYAGPLPIFNRSQHAHVIEDLHCNLCNVDVSARSKHCSACNKCVCGFDHHCKWLNNCVGERNYRLFLHSVASALLGVLLLVLVATYVFVEFFVNPMRLRTNRHFEVLKNHTDVWFVFLPAAPVETQAPAILALAALLILLGLLSTALLGHLLCFHIYLMWHKLTTYEYIVQHRPPQEAKGVHRELESCPPKMRPIQEMEFYMRTFRHMRPEPPGQAGPAAVNAKHSRPASPDPTPGRRDCAGPPVQVEWDRKKPLPWRSPLLLLAMWGPQAPPCLCRKRGRGACIKCERLRPRIRRRGLGPPAAAPARRRIPRTPALCTPLALPAPTTRRRQSPWTRFQWRRRAWAAPLWPPRGAGADSPRWRGRRVRPPFS |
| 2530 | sp|Q552C6|ZAK2\_DICDI | MNSHKKEEWEEISSIGSCNSKSRVLKCRKKNGLIENEKVDIVAVKIINKKFFKRNETDILEKIRLFNIPRYYSHAEDDNYIYIYMEYIEDKKQLRFKESEIISMIADLTETLSFLHKHQILHRDIKPSNIILDKNGVLKLIDFGSSIIDQQQDDGDNICKESSFAITGTHTYMAPEVKKLHRSTKKSDVWSLGCTVLEIVGGNPKKIFDGIPIIPNHVSEIMVDFIKRCLIIDPNKRSHMEELLTHRLISSMVGQNKNRENNIEPKFNNDYLSSKFPERFAPRFEKPKWEIEFNELKFNKDDTVGGDGFFSVVKKGYYNETEVAIKLIKKAHGENVTVCDTFYHEVLIISNLRHPNIVQFIAACIKFDNKEVNHCIVSEWMSGGNLSQFISNERKILEINPHLRVKILLDIAKGMLYSHRQGIIHRDLTSNNVLLNFRKKKLLNNNSSNNDEQFYDSDEIIAKVCDFGLSSNQSESKKLRGGSIHYMAPENLNGSPINEKSDIYSFGLLVWQMFSYASPNTIYSPKEMASMVSDEKLNYRPQIPFNVPLKFKELITQCWDRNPLNRPKDFSEIIDKLKDINQIYFQDNSNASTISSTAITTTISTISISNSGNSSYSTSDDSSTYGSGFYNSGFL |
| 2531 | sp|Q9Y6X8|ZHX2\_HUMAN | MASKRKSTTPCMVRTSQVVEQDVPEEVDRAKEKGIGTPQPDVAKDSWAAELENSSKENEVIEVKSMGESQSKKLQGGYECKYCPYSTQNLNEFTEHVDMQHPNVILNPLYVCAECNFTTKKYDSLSDHNSKFHPGEANFKLKLIKRNNQTVLEQSIETTNHVVSITTSGPGTGDSDSGISVSKTPIMKPGKPKADAKKVPKKPEEITPENHVEGTARLVTDTAEILSRLGGVELLQDTLGHVMPSVQLPPNINLVPKVPVPLNTTKYNSALDTNATMINSFNKFPYPTQAELSWLTAASKHPEEHIRIWFATQRLKHGISWSPEEVEEARKKMFNGTIQSVPPTITVLPAQLAPTKVTQPILQTALPCQILGQTSLVLTQVTSGSTTVSCSPITLAVAGVTNHGQKRPLVTPQAAPEPKRPHIAQVPEPPPKVANPPLTPASDRKKTKEQIAHLKASFLQSQFPDDAEVYRLIEVTGLARSEIKKWFSDHRYRCQRGIVHITSESLAKDQLAIAASRHGRTYHAYPDFAPQKFKEKTQGQVKILEDSFLKSSFPTQAELDRLRVETKLSRREIDSWFSERRKLRDSMEQAVLDSMGSGKKGQDVGAPNGALSRLDQLSGAQLTSSLPSPSPAIAKSQEQVHLLRSTFARTQWPTPQEYDQLAAKTGLVRTEIVRWFKENRCLLKTGTVKWMEQYQHQPMADDHGYDAVARKATKPMAESPKNGGDVVPQYYKDPKKLCEEDLEKLVTRVKVGSEPAKDCLPAKPSEATSDRSEGSSRDGQGSDENEESSVVDYVEVTVGEEDAISDRSDSWSQAAAEGVSELAESDSDCVPAEAGQA |
| 2532 | sp|P92964|SRS31\_ARATH | MRPVFVGNFEYETRQSDLERLFDKYGRVDRVDMKSGYAFVYFEDERDAEDAIRKLDNFPFGYEKRRLSVEWAKGERGRPRGDAKAPSNLKPTKTLFVINFDPIRTKEHDIEKHFEPYGKVTNVRIRRNFSFVQFETQEDATKALEATQRSKILDRVVSVEYALKDDDERDDRNGGRSPRRSLSPVYRRRPSPDYGRRPSPGQGRRPSPDYGRARSPEYDRYKGPAAYERRRSPDYGRRSSDYGRQRSPGYDRYRSRSPVPRGRP |
| 2533 | sp|Q60698|SKI\_MOUSE | MEAAAAGRGGFQQPGLQKTLEQFHLSSMSSLGGPAVSRRAGQEAYKKESAKEAGAATVPAPVPTAAEPPPVLHLPAIQPPPPVLPGPFFMPSDRSTERCETVLEGETISCFVVGGEKRLCLPQILNSVLRDFSLQQINSVCDELHIYCSRCTADQLEILKVMGILPFSAPSCGLITKTDAERLCNALLYGGAYPPPCKKELAASLALGLELSERSVRVYHECFGKCKGLLVPELYSSPSAACIQCLDCRLMYPPHKFVVHSHKALENRTCHWGFDSANWRAYILLSQDYTGKEEQARLGRCLDDVKEKFDYANKYKRRVPRVSEPPASIRPKTDDTSSQSPASSEKDKQSTWLRTLAGSSNKSLGCTHPRQRLSAFRPWSPAVSASEKETSPHLPALIRDSFYSYKSFETAVAPNVALAPPTQQKVVNSPPCTTVVSRAPEPLTTCIQPRKRKLTLDTAGAPDMLTPVAAAEEDKDSEAEVEVESREEFTSSLSSLSSPSFTSSSSAKDLSSPGMHAPPVVAPDAAAHVDAPSGLEAELEHLRQALEGGLDTKEAKEKFLHEVVKMRVKQEEKLTAALQAKRTLHQELEFLRVAKKEKLREATEAKRNLRKEIERLRAENEKKMKEANESRVRLKRELEQARQVRVCDKGCEAGRLRAKYSAQVEDLQAKLQHAEADREQLRADLLREREAREHLEKVVRELQEQLRPRPRPEHPGGESNAELGP |
| 2534 | sp|P33338|SLA2\_YEAST | MSRIDSDLQKALKKACSVEETAPKRKHVRACIVYTWDHQSSKAVFTTLKTLPLANDEVQLFKMLIVLHKIIQEGHPSALAEAIRDRDWIRSLGRVHSGGSSYSKLIREYVRYLVLKLDFHAHHRGFNNGTFEYEEYVSLVSVSDPDEGYETILDLMSLQDSLDEFSQIIFASIQSERRNTECKISALIPLIAESYGIYKFITSMLRAMHRQLNDAEGDAALQPLKERYELQHARLFEFYADCSSVKYLTTLVTIPKLPVDAPDVFLINDVDESKEIKFKKREPSVTPARTPARTPTPTPPVVAEPAISPRPVSQRTTSTPTGYLQTMPTGATTGMMIPTATGAANAIFPQATAQMQPDFWANQQAQFANEQNRLEQERVQQLQQQQAQQELFQQQLQKAQQDMMNMQLQQQNQHQNDLIALTNQYEKDQALLQQYDQRVQQLESEITTMDSTASKQLANKDEQLTALQDQLDVWERKYESLAKLYSQLRQEHLNLLPRFKKLQLKVNSAQESIQKKEQLEHKLKQKDLQMAELVKDRDRARLELERSINNAEADSAAATAAAETMTQDKMNPILDAILESGINTIQESVYNLDSPLSWSGPLTPPTFLLSLLESTSENATEFATSFNNLIVDGLAHGDQTEVIHCVSDFSTSMATLVTNSKAYAVTTLPQEQSDQILTLVKRCAREAQYFFEDLMSENLNQVGDEEKTDIVINANVDMQEKLQELSLAIEPLLNIQSVKSNKETNPHSELVATADKIVKSSEHLRVDVPKPLLSLALMIIDAVVALVKAAIQCQNEIATTTSIPLNQFYLKNSRWTEGLISAAKAVAGATNVLITTASKLITSEDNENTSPEQFIVASKEVAASTIQLVAASRVKTSIHSKAQDKLEHCSKDVTDACRSLGNHVMGMIEDDHSTSQQQQPLDFTSEHTLKTAEMEQQVEILKLEQSLSNARKRLGEIRRHAYYNQDDD |
| 2535 | sp|P18888|SNF6\_YEAST | MGVIKKKRSHHGKASRQQYYSGVQVGGVGSMGAINNNIPSLTSFAEENNYQYGYSGSSAGMNGRSLTYAQQQLNKQRQDFERVRLRPEQLSNIIHDESDTISFRSNLLKNFISSNDAFNMLSLTTVPCDRIEKSRLFSEKTIRYLMQKQHEMKTQAAELQEKPLTPLKYTKLIAAAEDGSRSTKDMIDAVFEQDSHLRYQPDGVVVHRDDPALVGKLRGDLREAPADYWTHAYRDVLAQYHEAKERIRQKEVTAGEAQDEASLQQQQQQDLQQQQQVVTTVASQSPHATATEKEPVPAVVDDPLENMFGDYSNEPFNTNFDDEFGDLDAVFF |
| 2536 | sp|P11831|SRF\_HUMAN | MLPTQAGAAAALGRGSALGGSLNRTPTGRPGGGGGTRGANGGRVPGNGAGLGPGRLEREAAAAAATTPAPTAGALYSGSEGDSESGEEEELGAERRGLKRSLSEMEIGMVVGGPEASAAATGGYGPVSGAVSGAKPGKKTRGRVKIKMEFIDNKLRRYTTFSKRKTGIMKKAYELSTLTGTQVLLLVASETGHVYTFATRKLQPMITSETGKALIQTCLNSPDSPPRSDPTTDQRMSATGFEETDLTYQVSESDSSGETKDTLKPAFTVTNLPGTTSTIQTAPSTSTTMQVSSGPSFPITNYLAPVSASVSPSAVSSANGTVLKSTGSGPVSSGGLMQLPTSFTLMPGGAVAQQVPVQAIQVHQAPQQASPSRDSSTDLTQTSSSGTVTLPATIMTSSVPTTVGGHMMYPSPHAVMYAPTSGLGDGSLTVLNAFSQAPSTMQVSHSQVQEPGGVPQVFLTASSGTVQIPVSAVQLHQMAVIGQQAGSSSNLTELQVVNLDTAHSTKSE |
| 2537 | sp|Q95115|STA5A\_BOVIN | MAGWIQAQQLQGDALRQMQVLYGQHFPIEVRHYLAQWIESQPWDAIDLDNPQDRAQATQLLEGLVQELQKKAEHQVGEDGFLLKIKLGHYATQLQNTYDRCPMELVRCIRHILYNEQRLVREANNGSSSAGILVDAMSQKHLQINQTFEELRLVTQDTENELKKLQQTQEYFIIQYQESLRIQAQFAQLAQLNPQERLSRETALQQKQVSLEAWLQREAQTLQQYRVELAEKHQKTLQLLRKQQTIILDDELIQWKRRQQLAGNGGPPEGSLDVLQSWCEKLAEIIWQNRQQIRRAEHLCQQLPIPGPVEEMLAEVNATITDIISALVTSTFIIEKQPPQVLKTQTKFAATVRLLVGGKLNVHMNPPQVKATIISEQQAKSLLKNENTRNECSGEILNNCCVMEYHQATGTLSAHFRNMSLKRIKRADRRGAESVTEEKFTVLFESQFSVGSNELVFQVKTLSLPVVVIVHGSQDHNATATVLWDNAFAEPGRVPFAVPDKVLWPQLCEALNMKFKAEVQSNRGLTKENLVFLAQKLFNSSSSHLEDYNGMSVSWSQFNRENLPGWNYTFWQWFDGVMEVLKKHHKPHWNDGAILGFVNKQQAHDLLINKPDGTFLLRFSDSEIGGITIAWKFDSPDRNLWNLKPFTTRDFSIRSLADRLGDLNYLIYVFPDRPKDEVFSKYYTPVLAKAVDGYVKPQIKQVVPEFVSASADSAGSNATYMDQAPSPAVCPQPHYNMYPQNPDPVLDQDGEFDLDETMDVARHVEELLRRPMDSLEPSLPPPTGLFTPGRGSLS |
| 2538 | sp|Q06520|ST2A1\_HUMAN | MSDDFLWFEGIAFPTMGFRSETLRKVRDEFVIRDEDVIILTYPKSGTNWLAEILCLMHSKGDAKWIQSVPIWERSPWVESEIGYTALSETESPRLFSSHLPIQLFPKSFFSSKAKVIYLMRNPRDVLVSGYFFWKNMKFIKKPKSWEEYFEWFCQGTVLYGSWFDHIHGWMPMREEKNFLLLSYEELKQDTGRTIEKICQFLGKTLEPEELNLILKNSSFQSMKENKMSNYSLLSVDYVVDKAQLLRKGVSGDWKNHFTVAQAEDFDKLFQEKMADLPRELFPWE |
| 2539 | sp|Q9VTE2|SUUR\_DROME | MYHFVSEQTPEVRLTDEALVTSHVTQYLKSFQLDAVRFVYDRLAKREFCILNDESGLGKVATVAALLSALPPAKKTLVVLQNDEQLLTGWRFHLDTLTDLQVYIIQGVQDTTDSPHSVYLAKWSQLRSIGDLSRLKFDYIMVDNRGHSLNNSFCTSMLLKQFEGRVNVLISSVDVTSDVRLLYNVLRLGGRLEHQYKSFASFDRKFHLPDPKEVFSKRIDLEEYYKQRGFLSEYIKDFRLRRFRHQFDKSLPLVAPEQYKHNLNLWLASKNSQSTISGSDVCSTIASIDNNPAQQNKTGLFEETDRLSEHSVDDVAMSPLIFEYSESDDEPLTVEPDADQNPVLVVSSDDCEIVTPPSTPQNRTPSLNESPRTKSKKKFSKKTSPRKKADLTDSEEDDEATDNMPPRKRTRAATVHLTPKTRRLNVRILRVSLDTLSTPPPSRTTTAIVTPKTEPTARRKNLKKRTVSPVDVGRPATRGMQRLTRSAETKINSKYLKHRSLDDVKRSFPRRVKLEGNQTPRSSKQIVKQEPKSKVGQEKKQKTVDVPAQGTAKRKPGRPRKCQTKTEDLGKTKTKPNSKHLPPTPQVLSGSSLSSEYMQCAQRIPDNLDAIESPAFRVPFTPQQTPMLLTLPSTHNLLNDSEVVSIPLYKDPVETVVINSSHDECSPQDPSQSRRTKALKRKRKPVTSVNSSFGGGLGLPPAKRSANKSPDLFSISSEHSQIPLAQPRPSSPFEGFKIFGSEVKQFQQQLAKVNISVPKKKRDRSCLDILEQMFEPRQQQSAKTSPKVLPTLPLTQKDDAESTITQRRRTLLEDDFFEITNNGQFGSRMRLNSSGEVSPVQPDQQSVRPSQANKITNYLIGSGITQERTQPSNGNRNSILASLRKSPKSPKQGAKSTQATKLTRWFGSVFGGGASQTSSVESVSAPSTPVNSSTSAAACQTRSARSGGASGPTKRKRLELFK |
| 2540 | sp|P23561|STE11\_YEAST | MEQTQTAEGTDLLIGDEKTNDLPFVQLFLEEIGCTQYLDSFIQCNLVTEEEIKYLDKDILIALGVNKIGDRLKILRKSKSFQRDKRIEQVNRLKNLMEKVSSLSTATLSMNSELIPEKHCVIFILNDGSAKKVNVNGCFNADSIKKRLIRRLPHELLATNSNGEVTKMVQDYDVFVLDYTKNVLHLLYDVELVTICHANDRVEKNRLIFVSKDQTPSDKAISTSKKLYLRTLSALSQVGPSSSNLLAQNKGISHNNAEGKLRIDNTEKDRIRQIFNQRPPSEFISTNLAGYFPHTDMKRLQKTMRESFRHSARLSIAQRRPLSAESNNIGDILLKHSNAVDMALLQGLDQTRLSSKLDTTKIPKLAHKRPEDNDAISNQLELLSVESGEEEDHDFFGEDSDIVSLPTKIATPKNWLKGACIGSGSFGSVYLGMNAHTGELMAVKQVEIKNNNIGVPTDNNKQANSDENNEQEEQQEKIEDVGAVSHPKTNQNIHRKMVDALQHEMNLLKELHHENIVTYYGASQEGGNLNIFLEYVPGGSVSSMLNNYGPFEESLITNFTRQILIGVAYLHKKNIIHRDIKGANILIDIKGCVKITDFGISKKLSPLNKKQNKRASLQGSVFWMSPEVVKQTATTAKADIWSTGCVVIEMFTGKHPFPDFSQMQAIFKIGTNTTPEIPSWATSEGKNFLRKAFELDYQYRPSALELLQHPWLDAHII |
| 2541 | sp|Q8KY50|STKP\_STREE | MIQIGKIFAGRYRIVKQIGRGGMADVYLAKDLILDGEEVAVKVLRTNYQTDPIAVARFQREARAMADLDHPHIVRITDIGEEDGQQYLAMEYVAGLDLKRYIKEHYPLSNEEAVRIMRQILLAMRLAHTRGIVHRDLKPQNILLTPDGTAKVTDFGIAVAFAETSLTQTNSMLGSVHYLSPEQARGSKATVQSDIYAMGIIFYEMLTGHIPYDGDSAVTIALQHFQNPLPSVIAENSSVPQALENVIIKATAKKLTNRYRSVSEMYVDLSSSLSYNRRNESKLIFDETSKADTKTLPKVSQSTLTSIPKVQAQTEHKSIKNPSQAVTEETYQPQAPKKHRFKMRYLILLASLVLVAASLIWILSRSPATIAIPDVAGQTVAEAKATLKKANFEIGEEKTEASEKVEEGRIIRTDPGAGTGRKEGTKINLVVSSGKQSFQISNYVGRKSSDVIAELKEKKVPDNLIKIEEEESNESEAGTVLKQSLPEGTTYDLSKATQIVLTVAKKATTIQLGNYIGRNSTEVISELKQKKVPENLIKIEEEESSESEPGTIMKQSPGAGTTYDVSKPTQIVLTVAKKVTSVAMPSYIGSSLEFTKNNLIQIVGIKEANIEVVEVTTAPAGSVEGMVVEQSPRAGEKVDLNKTRVKISIYKPKTTSATP |
| 2542 | sp|Q03410|SYCP1\_RAT | MEKQKPFTLFVPPRLSSSQVSAVKPQTAGGDSNYFKTVNKCTEGDFGVPLTMSSLSKNRENIDTDPAFQKLSILPMLEQVANSGSCHYQEGVNDSDFENSEPMSRLYSKLYKEAEKIKKWKVSIESELKQKENKLQENRKIIEAQRKAIQELQFENEKVSLKLEEEIQENKDLIKENNATRHWCNLLKETCARSAEKTSKYEYEREETRQVYVDLNNNIEKMILAFEELRVQAENARLEMHFKLKEDHEKIQHLEEEYQKEVNNKENQVSLLLIQSTEKENKMKDLTFLLEESRDKANQLEEKTKLQDENLKELNEKKDHLTSELEDIKMSMQRSMSTQKTLEEDLQIATKTIYQLTEEKEAQMEELNKAKTTHSLVVTELKATTCTLEELLRTEQQRLENNEDQLKLITMELQKKSSELEEMTKFKNNKEVELEELKTILAEDQKLLDEKKQVEKLAEELQGKEQELTFLLQTREKEIHDLEVQVTVTKTSEEHYLKQVEEMKTELEKEKLKNIELTANSDMLLLENKKLVQEASDMVLELKKHQEDIINCKKQEERMLKQIETLEEKEMNLRDELESVRKEFIQQGDEVKCKLDKSEENARSIEYEVLKKEKQMKILENKCNNLKKQIENKSKNIEELHQENKALKKKSSAENKQLNAYEIKVNKLELELASTKQKFEEMINNYQKEIEIKKISEEKLLGEVEKAKATVDEAVKLQKEIDLRCQHKIAEMVALMEKHKHQYDKIVEERDSELGLYKNREQEQSSAKVALETELSNIRNELVSLKKQLEVEKEEKEKLKMEQENTAILTDKKDKKIQASLLESPEATSWKFDSKTTPSQNISRLSSSMDSGKSKDNRDSLRASAKSILSTTVTKEYTVKTPTKKSIYQRENKYLPTGGSNKKRKTVFEFDVNSDSSETTDLLSLVSEEDISNRIYNNNTPDSHLLVKTPKQTPLSLSTPASFTKFGSLKKMREDRWATIAKIDRKRRLKEAEKLFT |
| 2543 | sp|P52632|STA5B\_RAT | MAMWIQAQQLQGDALHQMQALYGQHFPIEVRHYLSQWIESQAWDSIDLDNPQENIKATQLLEGLVQELQKKAEHQVGEDGFLLKIKLGHYATQLQNTYDRCPMELVRCIRHILYNEQRLVREANNGSSPAGSLADAMSQKHLQINQTFEELRLITQDTESELKKLQQTQEYFIIQYQESLRIQAQFAQLAQLNPQERMSRETALQQKQVSLETWLQREAQTLQQYRVELAEKHQKTLQLLRKQQTIILDDELIQWKRRQQLAGNGGPPEGSLDVLQSWCEKLAEIIWQNRQQIRRLEHLCQQLPIPGPVEEMLAEVNATITDIISALSTSTFIIEKQPPQVLKTQTKFAATVRLLVGGKLNVHMNPPQVKATIISEQQAKSLLKNENTRNDYSGEILNNCCVMEYHQATGTLSAHFRNMSLKRIKRSDRRGAESVTEEKFTILFDSQFSVGGNELVFQVKTLSLPVVVIVHGSQDNNATATVLWDNAFREPGRVPFAVPDKVLWPQLCEALNMKFKAEVQSNRGLTKENLVFLAQKLFNSSSNHLEDYNSMSVSWSQFNRENLPGRNYTFWQWFDGVMEVLKKHLKPHWNDGAILGFVNKQQAHDLLINKPDGTFLLRFSDSEIGGITIAWKFDSQERMFWNLMPFTTRDFSIRSLADRLGDLNYLIYVFPDRPKDEVYSKYYTPVPCERATAKAADGYVKPQIKQVVPEFVNASTDAGSGATYMDQAPSPVVCPQAHYNMYPQNPDSVLDTDGDFDLEDTMDVARRVEELLGRPMDSQWIPHAQS |
| 2544 | sp|Q14765|STAT4\_HUMAN | MSQWNQVQQLEIKFLEQVDQFYDDNFPMEIRHLLAQWIENQDWEAASNNETMATILLQNLLIQLDEQLGRVSKEKNLLLIHNLKRIRKVLQGKFHGNPMHVAVVISNCLREERRILAAANMPVQGPLEKSLQSSSVSERQRNVEHKVAAIKNSVQMTEQDTKYLEDLQDEFDYRYKTIQTMDQSDKNSAMVNQEVLTLQEMLNSLDFKRKEALSKMTQIIHETDLLMNTMLIEELQDWKRRQQIACIGGPLHNGLDQLQNCFTLLAESLFQLRRQLEKLEEQSTKMTYEGDPIPMQRTHMLERVTFLIYNLFKNSFVVERQPCMPTHPQRPLVLKTLIQFTVKLRLLIKLPELNYQVKVKASIDKNVSTLSNRRFVLCGTNVKAMSIEESSNGSLSVEFRHLQPKEMKSSAGGKGNEGCHMVTEELHSITFETQICLYGLTIDLETSSLPVVMISNVSQLPNAWASIIWYNVSTNDSQNLVFFNNPPPATLSQLLEVMSWQFSSYVGRGLNSDQLHMLAEKLTVQSSYSDGHLTWAKFCKEHLPGKSFTFWTWLEAILDLIKKHILPLWIDGYVMGFVSKEKERLLLKDKMPGTFLLRFSESHLGGITFTWVDHSESGEVRFHSVEPYNKGRLSALPFADILRDYKVIMAENIPENPLKYLYPDIPKDKAFGKHYSSQPCEVSRPTERGDKGYVPSVFIPISTIRSDSTEPHSPSDLLPMSPSVYAVLRENLSPTTIETAMKSPYSAE |
| 2545 | sp|O01798|SPE8\_CAEEL | MRSKSSEGDLQPEDTQSREDKETTATYSEDTKPETQKERNAALDNLAKTPIQLVVQPTPLTPAITPCEAPPPPPPPKPSSDNNNSKRLKVKDQLIEVPSDEVGRVENNIDNFPFYHGFMGRNECEAMLSNHGDFLIRMTEIGKRVAYVISIKWKYQNIHVLVKRTKTKKLYWTKKYAFKSICELIAYHKRNHKPIYEGMTLICGLARHGWQLNNEQVTLNKKLGEGQFGEVHKGSLKTSVFAAPVTVAVKTLHQNHLSANEKILFLREANVMLTLSHPNVIKFYGVCTMKEPIMIVMEFCDGKSLEDALLSKEEKVSAEDKILYLFHAACGIDYLHGKQVIHRDIAARNCLLNSKKILKISDFGLSVKGVAIKERKGGCLPVKYMAPETLKKGLYSTASDIYSYGALMYEVYTDGKTPFETCGLRGNELRKAIIGKRISLAVEVELPVFIANIFEQSRQYETEDRISSKQIIQIFKEEVGFHEIETSGILHKLVNSLPRIHNKERKPAAVAV |
| 2546 | sp|P39277|YJEH\_ECOLI | MSGLKQELGLAQGIGLLSTSLLGTGVFAVPALAALVAGNNSLWAWPVLIILVFPIAIVFAILGRHYPSAGGVAHFVGMAFGSRLERVTGWLFLSVIPVGLPAALQIAAGFGQAMFGWHSWQLLLAELGTLALVWYIGTRGASSSANLQTVIAGLIVALIVAIWWAGDIKPANIPFPAPGNIELTGLFAALSVMFWCFVGLEAFAHLASEFKNPERDFPRALMIGLLLAGLVYWGCTVVVLHFDAYGEKMAAAASLPKIVVQLFGVGALWIACVIGYLACFASLNIYIQSFARLVWSQAQHNPDHYLARLSSRHIPNNALNAVLGCCVVSTLVIHALEINLDALIIYANGIFIMIYLLCMLAGCKLLQGRYRLLAVVGGLLCVLLLAMVGWKSLYALIMLAGLWLLLPKRKTPENGITT |
| 2547 | sp|P0C2I6|YL13B\_YEAST | MESQQLSQHSHISHGSACASVTSKEVHTNQDPLDVSASKTEECEKASTKANSQQTTTPASSAVPENPHHASPQPASVPPPQNGPYPQQCMMTQNQANPSGWSFYGHPSMIPYTPYQMSPMYFPPGPQSQFPQYPSSVGTPLSTPSPESGNTFTDSSSADSDMTSTKKYVRPPPMLTSPNDFPNWVKTYIKFLQNSNLGGIIPTVNGKPVRQITDDELTFLYNTFQIFAPSQFLPTWVKDILSVDYTDIMKILSKSIEKMQSDTQEANDIVTLANLQYNGSTPADAFETKVTNIIDRLNNNGIHINNKVACQLIMRGLSGEYKFLRYTRHRHLNMTVAELFLDIHAIYEEQQGSRNSKPNYRRNLSDEKNDSRSYTNTTKPKVIARNPQKTNNSKSKTARAHNVSTSNNSPSTDNDSISKSTTEPIQLNNKHDLHLGQELTESTVNHTNHSDDELPGHLLLDSGASRTLIRSAHHIHSASSNPDINVVDAQKRNIPINAIGDLQFHFQDNTKTSIKVLHTPNIAYDLLSLNELAAVDITACFTKNVLERSDGTVLAPIVQYGDFYWVSKRYLLPSNISVPTINNVHTSESTRKYPYPFIHRMLAHANAQTIRYSLKNNTITYFNESDVDWSSAIDYQCPDCLIGKSTKHRHIKGSRLKYQNSYEPFQYLHTDIFGPVHNLPKSAPSYFISFTDETTKFRWVYPLHDRREDSILDVFTTILAFIKNQFQASVLVIQMDRGSEYTNRTLHKFLEKNGITPCYTTTADSRAHGVAERLNRTLLDDCRTQLQCSGLPNHLWFSAIEFSTIVRNSLASPKSKKSASQHAGLAGLDISTLLPFGQPVIVNDHNPNSKIHPRGIPGYALHPSRNSYGYIIYLPSLKKTVDTTNYVILQGKESRLDQFNYDALTFDEDLNRLTASYHSFIASNEIQESNDLNIESDHDFQSDIELHPEQPRNVLSKAVSPTDSTPPSTHTEDSKPISEINLRAPREVDPNISESNILPSKKRSSTPQISNIESTGSGGMHKLNVPLLAPMSQSNTHESSHASKSKDFRHSDSYSNNETNHTNVPISSTGGTNNKTVPQISDQETEKRIIHRSPSIDASPPENNSSHNIVPIKTPTTVSEQNTEESIIADLPLPDPPPEPPTELSDSFKELPPINSRQTNSSLGGIGDSNAYTTINSKKRSLEDNETEIKVSRDTWNTKNMRSLEPPRSKKRIHLIAAAKAVKSIKPIRTTLRYDEAITYNKDIKEKEKYIEAYHKEVNQLLKMNTWDTDKYYDRKEIDPKRVINSMFIFNKKRDGTHKARFVARGDIQHPDTYDTGMQSNTVHHYALMTSLSLALDNNYYITQLDISSAYLYADIKEELYIRPPPHLGMNDKLIRLKKSHYGLKQSGANWYETIKSYLIKQCGMEEVRGWSCVFKNSQVTICLFVDDMILFSKDLNANKKIITTLKKQYDTKIINLGESDNEIQYDILGLEIKYQRGKYMKLGMENSLTEKIPKLNVPLNPKGRKLSAPGQPGLYIDQDELEIDEDEYKEKVHEMQKLIGLASYVGYKFRFDLLYYINTLAQHILFPSRQVLDMTYELIQFMWDTRDKQLIWHKNKPTEPDNKLVAISDASYGNQPYYKSQIGNIFLLNGKVIGGKSTKASLTCTSTTEAEIHAVSEAIPLLNNLSHLVQELNKKPIIKGLLTDSRSTISIIKSTNEEKFRNRFFGTKAMRLRDEVSGNNLYVYYIETKKNIADVMTKPLPIKTFKLLTNKWIH |
| 2548 | sp|Q03434|YM12B\_YEAST | MESQQLSQHSHISHGSACASVTSKEVHTNQDPLDVSASKTEECEKASTKANSQQTTTPASSAVPENPHHASPQPASVPPPQNGPYPQQCMMTQNQANPSGWSFYGHPSMIPYTPYQMSPMYFPPGPQSQFPQYPSSVGTPLSTPSPESGNTFTDSSSADSDMTSTKKYVRPPPMLTSPNDFPNWVKTYIKFLQNSNLGGIIPTVNGKPVRQITDDELTFLYNTFQIFAPSQFLPTWVKDILSVDYTDIMKILSKSIEKMQSDTQEANDIVTLANLQYNGSTPADAFETKVTNIIDRLNNNGIHINNKVACQLIMRGLSGEYKFLRYTRHRHLNMTVAELFLDIHAIYEEQQGSRNSKPNYRRNLSDEKNDSRSYTNTTKPKVIARNPQKTNNSKSKTARAHNVSTSNNSPSTDNDSISKSTTEPIQLNNKHDLHLGQELTESTVNHTNHSDDELPGHLLLDSGASRTLIRSAHHIHSASSNPDINVVDAQKRNIPINAIGDLQFHFQDNTKTSIKVLHTPNIAYDLLSLNELAAVDITACFTKNVLERSDGTVLAPIVKYGDFYWVSKKYLLPSNISVPTINNVHTSESTRKYPYPFIHRMLAHANAQTIRYSLKNNTITYFNESDVDRSSAIDYQCPDCLIGKSTKHRHIKGSRLKYQNSYEPFQYLHTDIFGPVHNLPKSAPSYFISFTDETTKFRWVYPLHDRREDSILDVFTTILAFIKNQFQASVLVIQMDRGSEYTNRTLHKFLEKNGITPCYTTTADSRAHGVAERLNRTLLDDCRTQLQCSGLPNHLWFSAIEFSTIVRNSLASPKSKKSARQHAGLAGLDISTLLPFGQPVIVNDHNPNSKIHPRGIPGYALHPSRNSYGYIIYLPSLKKTVDTTNYVILQGKESRLDQFNYDALTFDEDLNRLTASYQSFIASNEIQQSDDLNIESDHDFQSDIELHPEQPRNVLSKAVSPTDSTPPSTHTEDSKRVSKTNIRAPREVDPNISESNILPSKKRSSTPQISNIESTGSGGMHKLNVPLLAPMSQSNTHESSHASKSKDFRHSDSYSENETNHTNVPISSTGGTNNKTVPQISDQETEKRIIHRSPSIDASPPENNSSHNIVPIKTPTTVSEQNTEESIIADLPLPDLPPESPTEFPDPFKELPPINSHQTNSSLGGIGDSNAYTTINSKKRSLEDNETEIKVSRDTWNTKNMRSLEPPRSKKRIHLIAAVKAVKSIKPIRTTLRYDEAITYNKDIKEKEKYIEAYHKEVNQLLKMKTWDTDEYYDRKEIDPKRVINSMFIFNKKRDGTHKARFVARGDIQHPDTYDSGMQSNTVHHYALMTSLSLALDNNYYITQLDISSAYLYADIKEELYIRPPPHLGMNDKLIRLKKSLYGLKQSGANWYETIKSYLIKQCGMEEVRGWSCVFKNSQVTICLFVDDMILFSKDLNANKKIITTLKKQYDTKIINLGESDNEIQYDILGLEIKYQRGKYMKLGMENSLTEKIPKLNVPLNPKGRKLSAPGQPGLYIDQDELEIDEDEYKEKVHEMQKLIGLASYVGYKFRFDLLYYINTLAQHILFPSRQVLDMTYELIQFMWDTRDKQLIWHKNKPTEPDNKLVAISDASYGNQPYYKSQIGNIYLLNGKVIGGKSTKASLTCTSTTEAEIHAISESVPLLNNLSYLIQELNKKPIIKGLLTDSRSTISIIKSTNEEKFRNRFFGTKAMRLRDEVSGNNLYVYYIETKKNIADVMTKPLPIKTFKLLTNKWIH |
| 2549 | sp|Q95XP9|ZWILC\_CAEEL | MPLTIEQLKQYNEKMAAKGEEDDAPAPVLLLDKYRVRVLPLTSIPFVMNHSSVSQLSLSSEDVLVVDFPSKGTGSGAGKAEKKMIFKKKIEPMEDSFEDKENVNEGGPLMTSFLTLEKLRKGMVGDVEIIGYECETSFFDANPIPLSDGVSLQRYIRLNCSEHFSPSISTLPVWISTTSSKFPSICWLAAGRTNRNVQFAAATRVLGHFNNENSERVVKQLNQACGTSQLNKYRAVYEEIRKIATENRPAPGEVTIDVRWSTKSTLVLLEHPDNAADCTIKIDLGWGDKRFFVDDEIFEQLFFVLNLADVLANPDNEVIFPMAPPANFDDLVQEMDALVEASSREDNVFVSNENFRGGDITDKVWNIVRKCNDVKQVTLLFRNFLQALAYGKIKSHAQERNKSHLASLIRISKSSEFKIPVLERLSTIDMMMEIGVESLRRRVIDIFSSQLLYPSDELEFILQTCENDLPAGNGAMNSAAISLLPITMALATANRIYELLNEKDHVILPDLTRRILQKYTASMIEKSRRGETETEYTFETTLPLLRMYKEGFMSKRPCIWTCENSNTVGANVQARVLTSLELQPSLEHINRLVNDSRPVWTATEEKPAMIKDLNADYTVVHTIFSYLPKM |
| 2550 | sp|Q62720|ZNT1\_RAT | MGCWGRNRGRLLCMLLLTFMFMVLEVVVSRVTASLAMLSDSFHMLSDVLALVVALVAERFARRTHATQKNTFGWIRAEVMGALVNAIFLTGLCFAILLEAVERFIEPHEMQQPLVVLSVGVAGLLVNVLGLCLFHHHSGEGQGAGHGHSHGHGHGHLAKGARKAGRAGGEAGAPPGRAPDQEPDQEETNTLVANTSNSNGLKADQAEPEKLRSDDPVDVQVNGNLIQESDSLESEDNRAGQLNMRGVFLHVLGDALGSVIVVVNALVFYFSWKGCTEDDFCVNPCFPDPCKSSVELMNSTQAPMHEAGPCWVLYLDPTLCIIMVCILLYTTYPLLKESALILLQTVPKQIDIKHLVKELRDVEGVEEVHELHVWQLAGSRIIATAHIKCEDPASYMQVAKTIKDVFHNHGIHATTIQPEFASVGSKSSVVPCELACRTQCALKQCCGTRPQVHSGKEAEKAPTVSISCLELSENLEKKPRRTKAEGSVPAVVIEIKNVPNKQPESSL |
| 2551 | sp|Q8NHG8|ZNRF2\_HUMAN | MGAKQSGPAAANGRTRAYSGSDLPSSSSGGANGTAGGGGGARAAAAGRFPAQVPSAHQPSASGGAAAAAAAPAAPAAPRSRSLGGAVGSVASGARAAQSPFSIPNSSSGPYGSQDSVHSSPEDGGGGRDRPVGGSPGGPRLVIGSLPAHLSPHMFGGFKCPVCSKFVSSDEMDLHLVMCLTKPRITYNEDVLSKDAGECAICLEELQQGDTIARLPCLCIYHKGCIDEWFEVNRSCPEHPSD |
| 2552 | sp|Q9BH10|ZP2\_BOVIN | MACRQRGDSGRPSSWFRADWRSFFLSFTLLTSVNSIDVNQLDPAFPGTVTCYENRMVVEFKRTLGNKIQHASVVDSLGLKMLNCTYVLDPEKLTLKAPYESCTKRVLGQHQMTITFMNDNTAHRQKTVLYHVSCPVMQAGRHDQHSGSTICSKDFMSFTFHFFPGLADDTAGPKPQMGWTVTVGDGERAQNLTLQEALTQGYNLLIENQKMSIQVLFHATGVTHYSQGNSHLYMVPLKLTHVSPGQTIILSSRLICASDPVTCNATHMTLTIPEFPGKLKSVSFENKNIAVNQLHNSGIVMEIANGLRLHFSKTLLKTKFSEKCLPYQFYLSSLKLTFYTQLETVSMVIYPECVCESTVSIVSGELCTQDGFMDVEVYRHQTKPALNLDTLRVGDSSCQPTIKAPFQGLVKFHIPLNGCGTRHKFENGKVIYENEIHALWADLPPSTISRDSEFRMTVRCYYSSSNMLINTNVESLPPPVASVKPGPLALTLQTYPDNSYLQPYGDKDYPVVRYLRQPIYLEVRVLNRTDPNIKLVLDDCWATSTMDPASLPQWNIIVDGCEYNLDNHRTTFHPVGSSVAYPNHYQRFAVKTFAFVSEDPAFSHLVYFHCSALICDQLSSNFPLCSASCLVSSRSRRATGATEEEKMIVSLPGPILLLSDGSSFRDAVDSKGHGTSGYAAFKTMVAVVALAGVVATLSLISYLRKKRITVLNH |
| 2553 | sp|B2RXF5|ZBT42\_HUMAN | MEFPEHGGRLLGRLRQQRELGFLCDCTVLVGDARFPAHRAVLAACSVYFHLFYRDRPAGSRDTVRLNGDIVTAPAFGRLLDFMYEGRLDLRSLPVEDVLAAASYLHMYDIVKVCKGRLQEKDRSLDPGNPAPGAEPAQPPCPWPVWTADLCPAARKAKLPPFGVKAALPPRASGPPPCQVPEESDQALDLSLKSGPRQERVHPPCVLQTPLCSQRQPGAQPLVKDERDSLSEQEESSSSRSPHSPPKPPPVPAAKGLVVGLQPLPLSGEGSRELELGAGRLASEDELGPGGPLCICPLCSKLFPSSHVLQLHLSAHFRERDSTRARLSPDGVAPTCPLCGKTFSCTYTLKRHERTHSGEKPYTCVQCGKSFQYSHNLSRHTVVHTREKPHACRWCERRFTQSGDLYRHVRKFHCGLVKSLLV |
| 2554 | sp|Q16670|ZSC26\_HUMAN | MATALVSAHSLAPLNLKKEGLRVVREDHYSTWEQGFKLQGNSKGLGQEPLCKQFRQLRYEETTGPREALSRLRELCQQWLQPETHTKEQILELLVLEQFLIILPKELQARVQEHHPESREDVVVVLEDLQLDLGETGQQDPDQPKKQKILVEEMAPLKGVQEQQVRHECEVTKPEKEKGEETRIENGKLIVVTDSCGRVESSGKISEPMEAHNEGSNLERHQAKPKEKIEYKCSEREQRFIQHLDLIEHASTHTGKKLCESDVCQSSSLTGHKKVLSREKGHQCHECGKAFQRSSHLVRHQKIHLGEKPYQCNECGKVFSQNAGLLEHLRIHTGEKPYLCIHCGKNFRRSSHLNRHQRIHSQEEPCECKECGKTFSQALLLTHHQRIHSHSKSHQCNECGKAFSLTSDLIRHHRIHTGEKPFKCNICQKAFRLNSHLAQHVRIHNEEKPYQCSECGEAFRQRSGLFQHQRYHHKDKLA |
| 2555 | sp|Q9NZV7|ZIM2\_HUMAN | MYQPEDDNNSDVTSDDDMTRNRRESSPPHSVHSFSGDRDWDRRGRSRDMEPRDRWSHTRNPRSRMPPRDLSLPVVAKTSFEMDREDDRDSRAYESRSQDAESYQNVVDLAEDRKPHNTIQDNMENYRKLLSLGFLAQDSVPAEKRNTEMLDNLPSAGSQFPDFKHLGTFLVFEELVTFEDVLVDFSPEELSSLSAAQRNLYREVMLENYRNLVSLGHQFSKPDIISRLEEEESYAMETDSRHTVICQGESHDDPLEPHQGNQEKLLTPITMNDPKTLTPERSYGSDEFERSSNLSKQSKDPLGKDPQEGTAPGICTSPQSASQENKHNRCEFCKRTFSTQVALRRHERIHTGKKPYECKQCAEAFYLMPHLNRHQKTHSGRKTSGCNEGRKPSVQCANLCERVRIHSQEDYFECFQCGKAFLQNVHLLQHLKAHEAARVLPPGLSHSKTYLIRYQRKHDYVGERACQCCDCGRVFSRNSYLIQHYRTHTQERPYQCQLCGKCFGRPSYLTQHYQLHSQEKTVECDHC |
| 2556 | sp|Q00262|STX2\_MOUSE | MRDRLPDLTACRTNDDGDTAVVIVEKDHFMDGFFHQVEEIRSSIARIAQHVEDVKKNHSIILSAPNPEGKIKEELEDLDKEIKKTANRIRGKLKSIEQSCDQDENGNRTSVDLRIRRTQHSVLSRKFVDVMTEYNEAQILFRERSKGRIQRQLEITGRTTTDDELEEMLESGKPSIFISDIISDSQITRQALNEIESRHKDIMKLETSIRELHEMFMDMAMFVETQGEMVNNIERNVVNSVDYVEHAKEETKKAIKYQSKARRKKWIIAAVAVAVIAVLALIIGLSVGK |
| 2557 | sp|P49842|STK19\_HUMAN | MQKWFSAFDDAIIQRQWRANPSRGGGGVSFTKEVDTNVATGAPPRRQRVPGRACPWREPIRGRRGARPGGGDAGGTPGETVRHCSAPEDPIFRFSSLHSYPFPGTIKSRDMSWKRHHLIPETFGVKRRRKRGPVESDPLRGEPGSARAAVSELMQLFPRGLFEDALPPIVLRSQVYSLVPDRTVADRQLKELQEQGEIRIVQLGFDLDAHGIIFTEDYRTRVCDCVLKACDGRPYAGAVQKFLASVLPACGDLSFQQDQMTQTFGFRDSEITHLVNAGVLTVRDAGSWWLAVPGAGRFIKYFVKGRQAVLSMVRKAKYRELLLSELLGRRAPVVVRLGLTYHVHDLIGAQLVDCISTTSGTLLRLPET |
| 2558 | sp|F4JTP5|STY46\_ARATH | MVMEDNESCASRVIFDALPTSQATMDRRERIKMEVFDEVLRRLRQSDIEDAHLPGFEDDLWNHFNRLPARYALDVNVERAEDVLMHKRLLHSAYDPQNRPAIEVHLVQVQPAGISADLDSTSNDAGHSSPTRKSIHPPPAFGSSPNLEALALAASLSQDEDADNSVHNNSLYSRPLHEITFSTEDKPKLLFQLTALLAELGLNIQEAHAFSTTDGYSLDVFVVDGWPYEETERLRISLEKEAAKIELQSQSWPMQQSFSPEKENGQTGARTHVPIPNDGTDVWEINLKHLKFGHKIASGSYGDLYKGTYCSQEVAIKVLKPERLDSDLEKEFAQEVFIMRKVRHKNVVQFIGACTKPPHLCIVTEFMPGGSVYDYLHKQKGVFKLPTLFKVAIDICKGMSYLHQNNIIHRDLKAANLLMDENEVVKVADFGVARVKAQTGVMTAETGTYRWMAPEVIEHKPYDHKADVFSYGIVLWELLTGKLPYEYMTPLQAAVGVVQKGLRPTIPKNTHPKLAELLERLWEHDSTQRPDFSEIIEQLQEIAKEVGEEGEEKKKSSTGLGGGIFAALRRSTTHH |
| 2559 | sp|Q8A1G2|SUSD\_BACTN | MKTKYIKQLFSAALIAVLSSGVTSCINDLDISPIDPQTGGSFDQQGVFVKGYAMLGVTGQKGIDGSPDLDGQDEGESGFYRTTFNCNELPTDECLWAWQENQDIPQLTSISWSPSSQRTEWVYVRLGYDITQYNFFLDQTEGMTDAETLRQRAEIRFLRALHYWYFLDLFGKAPFKEHFSNDLPVEKKGTELYTYIQNELNEIEADMYEPRQAPFGRADKAANWLLRARLYLNAGVYTGQTDYAKAEEYASKVIGSAYKLCTNYSELFMADNDENENAMQEIILPIRQDGVKTRNYGGSTYLVCGTRVAGMPRMGTTNGWSCIFARAAMVQKFFSNLEDVPMLPADVEIPTKGLDTDEQIDAFDAEHGIRTEDMIKAAGDDRALLYSGVGGGRRKIQTDAISGFTDGLSIVKWQNYRSDGKPVSHATYPDTDIPLFRLAEAYLTRAEAIFRQGGDATGDINELRKRANCTRKVQTVTEQELIDEWAREFYLEGRRRSDLVRFGMFTTNKYLWDWKGGAMNGTSVASYYNKYPIPVSDINNNRNMSQNEGYK |
| 2560 | sp|Q764M5|STAT1\_PIG | MSQWYELQQLDSKFLEQVHQLYDDSFPMEIRQYLAQWLENQDWEHAANDVSFATIRFHDLLSQLDDQYSRFSLENNFLLQHNIRKSKRNLQDNFQEDPIQMSMIICNCLKEERKILENAQRFNQTQSGNIQSTVMLDKHKELDSKVRNVKDKVMCIEHEIKTLEDLQDEYDFKCKTLQNREHDTNGVAKNDQKQEQMLLQKMYLMLDNKRKEVVHKIIELLNVTELTQKALINDELVEWKRRQQSACIGGPPNACLDQLQNWFTIVAESLQQVRQQLKKLEELEQKYTYEHDPITKNKQALWDRTFSLFQQLIQSSFVVERQPCMPTHPQRPLVLKTGVQFTVKLRLLVKLQKLNYNLKVKVLFDKDVSERNTVKGFRKFNILGTHTKVMNMEESTNGSLAAEFRHLQLKEQKNAGARTNEGPLIVTEELHSLSFETQLCQPGLVIDLETTSLPVVVISNVSQLPSGWASILWYNMLVAEPRNLSFFLNPPCARWSQLSEVLSWQFSSVTKRGLNVDQLNMLGEKLLGPTAGPDGLIPWTRFCKENINDKNFPFWLWIESILELIKKHLLSLWNDGCIVGFISKERERALLKDQQPGTFLLRFSESCREGAITFTWVERSQNGGEPYFHAVEPYTKKELSAVTFPDIIRNYKVMAAENIPENPLKYLYPNIDKDHAFGKYYSRPKEAPEPMELDGPKGTGYIKTELISVSEVHPSRLQTTDNLLPMSPEEFDEVSRMVGPVEFDVTWNKFSGTMNLD |
| 2561 | sp|Q63520|SYCP3\_RAT | MLRGCGEVGAVDCSPEQLNKHLKMVPGGRKHSGKSGKPPLIDQPKKAFDFEKEDKDLSGSEEDAVDEKTQVFDKHGKKRSAGIIEDVGGEVQNMLEKFGADINKALLAKKKRIEMYTKASFKASNQKIEQIWKTQQEEIQKLNNEYSQQFLSVLQQWELDMQKFEEQGEKLTNLFRQQQKIFQQTRIVQSQRMKAIKQLHEQFIKSLEDVEKNNDNLFTGTQSELKKEMAMLQKKVMMETQQQEMANVRKSLQSMLF |
| 2562 | sp|Q6EZC2|SUBA\_ECOLX | MLKILWTYILFLLFISASARAEKPWYFDAIGLTETTMSLTDKNTPVVVSVVDSGVAFIGGLSDSEFAKFSFTQDGSPFPVKKSEALYIHGTAMASLIASRYGIYGVYPHALISSRRVIPDGVQDSWIRAIESIMSNVFLAPGEEKIINISGGQKGVASASVWTELLSRMGRNNDRLIVAAVGNDGADIRKLSAQQRIWPAAYHPVSSVNKKQDPVIRVAALAQYRKGETPVLHGGGITGSRFGNNWVDIAAPGQNITFLRPDAKTGTGSGTSEATAIVSGVLAAMTSCNPRATATELKRTLLESADKYPSLVDKVTEGRVLNAEKAISMFCKKNYIPVRQGRMSEEL |
| 2563 | sp|Q68SB1|STAU2\_RAT | MANPKEKTPMCLVNELARFHSIQPQYKLLNESGPAHSKMFSVQLSLGEQTWESEGSSIKKAQQAVANKALTESTLPKPVQKPPKSNVNNNPGSITPTVELNGLAMKRGEPAIYRPLDPKPFPNYRANYNFRGMYNQRYHCPMPKIFYVQLTVGNNEFFGEGKTRQAARHNAAMKALQALQNEPIPEKSPQNGESGKEMDDDKDANKSEISLVFEIALKRNMPVSFEVIKESGPPHMKSFVTRVSVGEFSAEGEGNSKKLSKKRAATTVLQELKKLPPLPVIEKPKLFFKKRPKTIIKAGPEYGQGMNPISRLAQIQQARKEKEPDYVLLSERGMPRRREFVMQVKVGNEVATGTGPNKKIAKKNAAEAMLLQLGYKASTSLQDQLDKTGENKGWSGPKPGFPEPANNTPKGILHLSPDVYQEMEASRHRVTSGTTLGYLSPKDMNQPSSSFFSVESPSPTSSAPAARELLMNGTSPAAEAIGLKGSSPTPPCSSVQPSKQLEYLARIQGFQAALSALKQFSEQGLESIDGVVNVENGSLEKQAKHLREKADNNQANPGSITQDCKKSKSVI |
| 2564 | sp|P25604|STP22\_YEAST | MSANGKISVPEAVVNWLFKVIQPIYNDGRTTFHDSLALLDNFHSLRPRTRVFTHSDGTPQLLLSIYGTISTGEDGSSPHSIPVIMWVPSMYPVKPPFISINLENFDMNTISSSLPIQEYIDSNGWIALPILHCWDPAAMNLIMVVQELMSLLHEPPQDQAPSLPPKPNTQLQQEQNTPPLPPKPKSPHLKPPLPPPPPPQPASNALDLMDMDNTDISPTNHHEMLQNLQTVVNELYREDVDYVADKILTRQTVMQESIARFHEIIAIDKNHLRAVEQAIEQTMHSLNAQIDVLTANRAKVQQFSSTSHVDDEDVNSIAVAKTDGLNQLYNLVAQDYALTDTIECLSRMLHRGTIPLDTFVKQGRELARQQFLVRWHIQRITSPLS |
| 2565 | sp|Q3MHT4|STPAP\_RAT | MAAVDSDVVSLPRGRFRCCLCDVTTANRPSLDAHLKGRKHRDLVQLRATRKAQGLRSVFVSGFPRDVGSAQLSEYFQTFGPVANIVMDKDKGVFAIVEMGDISAREAVLSQPKHSLGGHTLRVRPREQKEFQSPASKSPKGVDSNSHQLAQALAEAADVGAQMVKLVELRELSEAERQLRTLVVALMQEVFTEFFPGCVVHPFGSSVNSFDVHGCDLDLFLDLGDMEEPQPDPQTPKLPEASSLDSTLASSLDPQVLACTPASLDSLSPTSLQDSEALDFETPSSLAPQTPDSALGSDTVTSPQSLPPVSPLEEDRGEGKHRKELELAEASKDEKEEATAVLELVGSILRGCVPGVYRVQTVPSARRPVVKFCHRPSGLHGDISLSNRLALYNSRFLNLCSEMDSRVRPLVYTLRCWAQHNGLSGGGPLLNNYALTLLVIYFLQTRDPPVLPTVAQLTQRSGEGEQVEVDGWDCSFPKDASRLEPSTNVEPLSSLLAQFFSCVSCWDLSGSLLSLREGQALMVAGGLPSDLWEGLRLGPMNLQDPFDLSHNVAANVTSRVAKRLQSSCGAAASYCRSLQYQQRSSRGRDWGLLPLLQPSSPSSLLSAKLIPLPSAPFPQIITALVSVLREALGCHIEQGTKRRRSEGARSKDSPLGGANKRPRLSGQEKSCEEGKEEPQGCAGDHSENEVEEMVIELRETPQDWALLHCGPPGELPLMTAKCLDKTAEQNPMEPEGAGEGSPGETEKEASHPSSVSWRCALWHQIWQGRRRARRRFQQQTKEEGRGGPSTGAEWLAVEARVTQELKGPKSEQQRLQGEPLLTFVASASQAEQTLTVAPLQDPQGLFPGLHHFLQVFIPQALKNLLK |
| 2566 | sp|P36018|YPT52\_YEAST | MLQFKLVLLGDSSVGKSSIVHRFVKDTFDELRESTIGAAFLSQSITIHPNDGNETKDVVIKFEIWDTAGQERYKSLAPMYYRNANAALVVYDITQEDSLQKARNWVDELKNKVGDDDLVIYLLGNKVDLCQETPSTETSPDSNEGGDEEQKVRAISTEEAKQYAQEQGLLFREVSAKTGEGVKEIFQDIGEKLYDLKKDEILSKQNRQIGGGNNGQVDINLQRPSTNDPTSCCS |
| 2567 | sp|P0C2J3|YL21B\_YEAST | MESQQLHQNPHSLHGSAYASVTSKEVPSNQDPLAVSASNLPEFDRDSTKVNSQQETTPGTSAVPENHHHVSPQPASVPPPQNGQYQQHGMMTPNKAMASNWAHYQQPSMMTCSHYQTSPAYYQPDPHYPLPQYIPPLSTSSPDPIDLKNQHSEIPQAKTKVGNNVLPPHTLTSEENFSTWVKFYIRFLKNSNLGDIIPNDQGEIKRQMTYEEHAYIYNTFQAFAPFHLLPTWVKQILEINYADILTVLCKSVSKMQTNNQELKDWIALANLEYDGSTSADTFEITVSTIIQRLKENNINVSDRLACQLILKGLSGDFKYLRNQYRTKTNMKLSQLFAEIQLIYDENKIMNLNKPSQYKQHSEYKNVSRTSPNTTNTKVTTRNYHRTNSSKPRAAKAHNIATSSKFSRVNNDHINESTVSSQYLSDDNELSLGQQQKESKPTHTIDSNDELPDHLLIDSGASQTLVRSAHYLHHATPNSEINIVDAQKQDIPINAIGNLHFNFQNGTKTSIKALHTPNIAYDLLSLSELANQNITACFTRNTLERSDGTVLAPIVKHGDFYWLSKKYLIPSHISKLTINNVNKSKSVNKYPYPLIHRMLGHANFRSIQKSLKKNAVTYLKESDIEWSNASTYQCPDCLIGKSTKHRHVKGSRLKYQESYEPFQYLHTDIFGPVHHLPKSAPSYFISFTDEKTRFQWVYPLHDRREESILNVFTSILAFIKNQFNARVLVIQMDRGSEYTNKTLHKFFTNRGITACYTTTADSRAHGVAERLNRTLLNDCRTLLHCSGLPNHLWFSAVEFSTIIRNSLVSPKNDKSARQHAGLAGLDITTILPFGQPVIVNNHNPDSKIHPRGIPGYALHPSRNSYGYIIYLPSLKKTVDTTNYVILQDNQSKLDQFNYDTLTFDDDLNRLTAHNQSFIEQNETEQSYDQNTESDHDYQSEIEINSDPLVNDFSSQSMNPLQLDHEPVQKVRAPKEVDADISEYNILPSPVRSRTPHIINKESTEMGGTIESDTTSPRHSSTFTARNQKRPGSPNDMIDLTSQDRVNYGLENIKTTRLGGTEEPYIQRNSDTNIKYRTTNSTPSIDDRSSNSESTTPIISIETKAVCDNTPSIDTDPPEYRSSDHATPNIMPDKSSKNVTADSILDDLPLPDLTHKSPTDTSDVSKDIPHIHSRQTNSSLGGMDDSNVLTTTKSKKRSLEDNETEIEVSRDTWNNKNMRSLEPPRSKKRINLIAAIKGVKSIKPVRTTLRYDEAITYNKDNKEKDRYVEAYHKEISQLLKMNTWDTNKYYDRNDIDPKKVINSMFIFNKKRDGTHKARFVARGDIQHPDTYDSDMQSNTVHHYALMTSLSIALDNDYYITQLDISSAYLYADIKEELYIRPPPHLGLNDKLLRLRKSLYGLKQSGANWYETIKSYLINCCDMQEVRGWSCVFKNSQVTICLFVDDMILFSKDLNANKKIITTLKKQYDTKIINLGERDNEIQYDILGLEIKYQRSKYMKLGMEKSLTEKLPKLNVPLNPKGKKLRAPGQPGHYIDQDELEIDEDEYKEKVHEMQKLIGLASYVGYKFRFDLLYYINTLAQHILFPSRQVLDMTYELIQFMWDTRDKQLIWHKNKPTKPDNKLVAISDASYGNQPYYKSQIGNIFLLNGKVIGGKSTKASLTCTSTTEAEIHAVSEAIPLLNNLSHLVQELNKKPIIKGLLTDSRSTISIIKSTNEEKFRNRFFGTKAMRLRDEVSGNNLYVYYIETKKNIADVMTKPLPIKTFKLLTNKWIH |
| 2568 | sp|Q99260|YPT6\_YEAST | MSRSGKSLTKYKIVFLGEQGVGKTSLITRFMYDTFDDHYQATIGIDFLSKTMYLDDKTIRLQLWDTAGQERFRSLIPSYIRDSRVAIIVYDITKRKSFEYIDKWIEDVKNERGDENVILCIVGNKSDLSDERQISTEEGEKKAKLLGAKIFMETSTKAGYNVKALFKKIAKSLPEFQNSESTPLDSENANSANQNKPGVIDISTAEEQEQSACQC |
| 2569 | sp|Q5SSZ7|ZNRF3\_MOUSE | MRPRSGGRPGAPGRRRRRLRRGPRGRRLPPPPPLPLLLGLLLAAAGPGAARAKETAFVEVVLFESSPSGDYTTHTTGLTGRFSRAGAMLSAEGEIVQMHPLGLCNNNDEEDLYEYGWVGVVKLEQPELDPKPCLTVLGKAKRAVQRGATAVIFDVSENPEAIDQLNQGSEDPLKRPVVYVKGADAIKLMNIVNKQKVARARIQHLPPRQPTEYFDMGIFLAFFVVVSLVCLILLVKIKLKQRRSQNSMNRLAVQALEKMETRKFNSKSKGRREGSCGALDTLSSGSTSDCAICLEKYIDGEELRVIPCTHRFHRKCVDPWLLQHHTCPHCRHNIIEQKGNPGAVCVETSNLTRGRQPRVTLPVHYPGRVHRTNAIPAYPTRTSMDSHGNPVTLLTMDRHGEQNLYSPQTPTYVRGYPPLHLDHTLAPHRCSLEHRAYSPAHPFRRPKFSSRSFSKAACFSQYETMYQHYYFQGLSYPEQEGQTIPSVTPRGQSRAFPPSGASSLLFPTMVHVAPPTHVESGSTSSFSCYHGHRSVCSGYLADCPGSDSSSNSSGQCRCSSSDSVVDCTEVSNQGVYGSCSTFRSSLSSDYDPFIYRSRGPAVHLEGSPPPEELPAGHSQSAGRGEPWLGPASPSGDQLSTCSLEMNYSSNSSLEPRGPNSSTSEVGLEVSPGAALDLRRTWKGGPEGPSCACCFEPQPFPPGSGIETSAGGSSLFLGPRLLEDCNPPSGEPQLGSSQGLYGLHSDHYPRTDGVKYEGLPCCFYEEKQVAHSAGRGNGCYTEDYSVSVQYTLTEEPPPSCYAGPRDLSQRIPIIPEDVDCDLGLPQDCHGMHNHSPWGGALSLDVPRLHWSLGTTREEEQAPCYQAEVQPGCSPEEAGASRASLSSAPQDTQESHALAAEASGPGSGPGIGTGA |
| 2570 | sp|Q9Y3S2|ZN330\_HUMAN | MPKKKTGARKKAENRREREKQLRASRSTIDLAKHPCNASMECDKCQRRQKNRAFCYFCNSVQKLPICAQCGKTKCMMKSSDCVIKHAGVYSTGLAMVGAICDFCEAWVCHGRKCLSTHACACPLTDAECVECERGVWDHGGRIFSCSFCHNFLCEDDQFEHQASCQVLEAETFKCVSCNRLGQHSCLRCKACFCDDHTRSKVFKQEKGKQPPCPKCGHETQETKDLSMSTRSLKFGRQTGGEEGDGASGYDAYWKNLSSDKYGDTSYHDEEEDEYEAEDDEEEEDEGRKDSDTESSDLFTNLNLGRTYASGYAHYEEQEN |
| 2571 | sp|Q9UDY2|ZO2\_HUMAN | MPVRGDRGFPPRRELSGWLRAPGMEELIWEQYTVTLQKDSKRGFGIAVSGGRDNPHFENGETSIVISDVLPGGPADGLLQENDRVVMVNGTPMEDVLHSFAVQQLRKSGKVAAIVVKRPRKVQVAALQASPPLDQDDRAFEVMDEFDGRSFRSGYSERSRLNSHGGRSRSWEDSPERGRPHERARSRERDLSRDRSRGRSLERGLDQDHARTRDRSRGRSLERGLDHDFGPSRDRDRDRSRGRSIDQDYERAYHRAYDPDYERAYSPEYRRGARHDARSRGPRSRSREHPHSRSPSPEPRGRPGPIGVLLMKSRANEEYGLRLGSQIFVKEMTRTGLATKDGNLHEGDIILKINGTVTENMSLTDARKLIEKSRGKLQLVVLRDSQQTLINIPSLNDSDSEIEDISEIESNRSFSPEERRHQYSDYDYHSSSEKLKERPSSREDTPSRLSRMGATPTPFKSTGDIAGTVVPETNKEPRYQEDPPAPQPKAAPRTFLRPSPEDEAIYGPNTKMVRFKKGDSVGLRLAGGNDVGIFVAGIQEGTSAEQEGLQEGDQILKVNTQDFRGLVREDAVLYLLEIPKGEMVTILAQSRADVYRDILACGRGDSFFIRSHFECEKETPQSLAFTRGEVFRVVDTLYDGKLGNWLAVRIGNELEKGLIPNKSRAEQMASVQNAQRDNAGDRADFWRMRGQRSGVKKNLRKSREDLTAVVSVSTKFPAYERVLLREAGFKRPVVLFGPIADIAMEKLANELPDWFQTAKTEPKDAGSEKSTGVVRLNTVRQIIEQDKHALLDVTPKAVDLLNYTQWFPIVIFFNPDSRQGVKTMRQRLNPTSNKSSRKLFDQANKLKKTCAHLFTATINLNSANDSWFGSLKDTIQHQQGEAVWVSEGKMEGMDDDPEDRMSYLTAMGADYLSCDSRLISDFEDTDGEGGAYTDNELDEPAEEPLVSSITRSSEPVQHEESIRKPSPEPRAQMRRAASSDQLRDNSPPPAFKPEPPKAKTQNKEESYDFSKSYEYKSNPSAVAGNETPGASTKGYPPPVAAKPTFGRSILKPSTPIPPQEGEEVGESSEEQDNAPKSVLGKVKIFEKMDHKARLQRMQELQEAQNARIEIAQKHPDIYAVPIKTHKPDPGTPQHTSSRPPEPQKAPSRPYQDTRGSYGSDAEEEEYRQQLSEHSKRGYYGQSARYRDTEL |
| 2572 | sp|Q99PP2|ZN318\_MOUSE | MYRSGSRSSVSSHRSKDGSASGPPPGRPVGASSGPTRRPSSPPPPSCSSLRLPARRHRSPSGHRGRWASPSPPRGRRGSPSPPRGRRASPSPTRGRRASPSPPRGRRGSPSPPRARRGSPSPPRSRRHYPPGLGGFRGSIRGESRADFARDGRGDHPGGGGGSRRRSPGLCSDSSLEESLRITVGNDHFCVSTPERRRLSDRLGSPVDGLQDMDRDDLTDDSVFTRSSQCSRGLERYISREEGPLSPFLGQLDEDYRTRETFLHRPEFSPQSSCHDELLRGTERNRDKLKSSSYSIRSEERSREAKRPRYDDTEKVHSSGGDHSSFTSGTRNYRQRRSSPSPRFLDPEFRELDLARRKREEEEEQSRSLSQELVGVGDDQIGCSIPGLAGVLTTSEPGYSLQRPEEVPMMPKKSILKKRIEADMKPSLQLESFSSGASSGEDHPLYSEHSPLPLSGAIAAFTSEIENKGTTVEADLKEPQSNLYQWGPLREIPKDNSEKFDSFLGFKEKLDLKAEGLEQQTDFLLPHERASQDGSGFSRILSMLADPTITQEKRRRSFPDIEDEEKFLYGDEEEDIKSESPLKSLEDPESAGTRQKANSLPSTPAVKLESLEESNPEYAKIHNLLKTIGLDIGVAEIGKLAARTQERLHGKKPSSRPSADRRLSADRHLSGDRHFSADRCSSVEHSFTADWRSSDPHRPESRETHHSNTQSPEVSHPHPASPVDPYLRTKNSPPFLKSDHPVCHVSGPEVVGSGFQSSVAVRCMLPSAPSTPIRLPHSAALSQFHIPGASQFAAARIPPNYQGSVIPSASFDAYRHYMAYAASRWPMYPASQPPSHPLSDPHRLLPVTKQAARSRPNLRVIPTVTPAKPKQEIPVLGSISVKRIPVRVSIPSLIKYNPKKISDEKNRASQKQKVIEEREKLKTEQEARQKKMFYLTTELERLHKQQGEMLRKKRREKDGHKDPLLMEVSRLQDSIMKDIAELHKETEEAEKKQSELDKVAQILGIDIFDKSLKSSNDSKESTEKPEKEKSKSPEKELSPSNSSSSNKESKMNEKSCIKSPSSTESLQPTVKQSDQPVAAYEYYDAGSHWCKDCNTTCGTMFDFFTHMHNKKHTQTLDPYNRPWASKTQSEAKQDTVKRTDKITVPAKGSEFLIPVTGFYCQLCEEFLGDPISGEQHVKGHQHNENYKKYVEENPLYEERRNLDRQAGLAVVLETERRRQNELKRKLNEKPKEEKIEKKARIVREVKEDDKAPGELEEQLSEDGSAPEKGEVKGNASLRPQVKEEVKKEPSVASIAASFGKFSWKKPEKEEEKGSVVTPGAPKEDTVETSKDRDDGKAEVGKAKPIKIKLSGKTVIAHTSPWTPVVTTSTQTKIRPNLPIPSTVLRKSGSATVSKPAPLNTFLSIKSSGTSTKPLPVVKESSSDLLLPPDIISKAFGGEEVVLKGSPEEKVELAEKNEPSQVPEQMLALLPPPPPPPPPPPPPPPPPPPQAVPQLSAPSPAQANVVLTPVKSNSVISQTFSLGFQGPNILNPGLPVAFMASEQPTVIPSDETAPGVSESDWDQTLISMLVRPPPPLSSVFSEQAKKLEKRNSCLATANAKDLYDIFYSSGGKGAHETKLSSSTLANGESSSLPRTESSDFSSTCTLNSSMSSEDLPQCSALVTATEISNLENPISKGMESTGKWSVVDQIDPKSRDSTYSFLQPLTRLYQNKPYEIVSPKTDTLVMWTSGSSQNDTHKDRPPEGKIRFDLGEPGPPGTDSTSHLSDTHCQTNGPQKLIEINLIDNQNKNQEVYQSEGCRESEMKRKTELKGKVATEEEEEEEEEGANSIEDSNSNHGNRNTWEGEIGQPKLSTVDKKGEQSSKLMTGHENTSKVVIELSPSLPSKRTKIDLFPSLLQNPKSMPELLLLSPAGSGLCLKRQEIWERPEKPGLEDVELQGTRPELTVTIESKVLENFDTTHLEVEGFASLRNLGDMHANFHNSQTEQTRRSPTALSEKMSEEISVSSVMCNPSSSSDIEPVPSFSGFPLESPKTLVLNFETEGAHSSSNSRNGRITSNSLETGHPVENVGHDLGGERTHQALDLLAGGMLSEDVKETSPLQKDLLRMESTTVSPSGLGPSPCLPDLVDFVTRTPGVPKQKPCSPLSEPDAFLKCSSLEMGSPPPEILSVSVSEVAVPQVSEDNDSALNLVKTPPSGSPSRDQVVGGNVSPREMPEQEAAVDVIPDHTRSNVYNSQDYLNG |
| 2573 | sp|Q9SZY8|YUC1\_ARATH | MESHPHNKTDQTQHIILVHGPIIIGAGPSGLATSACLSSRGVPSLILERSDSIASLWKSKTYDRLRLHLPKHFCRLPLLDFPEYYPKYPSKNEFLAYLESYASHFRIAPRFNKNVQNAAYDSSSGFWRVKTHDNTEYLSKWLIVATGENADPYFPEIPGRKKFSGGKIVHASEYKSGEEFRRQKVLVVGCGNSGMEISLDLVRHNASPHLVVRNTVHVLPREILGVSTFGVGMTLLKCLPLRLVDKFLLLMANLSFGNTDRLGLRRPKTGPLELKNVTGKSPVLDVGAMSLIRSGMIQIMEGVKEITKKGAKFMDGQEKDFDSIIFATGYKSNVPTWLQGGDFFTDDGMPKTPFPNGWRGGKGLYTVGFTRRGLLGTASDAVKIAGEIGDQWRDEIKGSTRNMCSSRFVFTSKS |
| 2574 | sp|O15209|ZBT22\_HUMAN | MEPSPLSPSGAALPLPLSLAPPPLPLPAAAVVHVSFPEVTSALLESLNQQRLQGQLCDVSIRVQGREFRAHRAVLAASSPYFHDQVLLKGMTSISLPSVMDPGAFETVLASAYTGRLSMAAADIVNFLTVGSVLQMWHIVDKCTELLREGRASATTTITTAAATSVTVPGAGVPSGSGGTVAPATMGSARSHASSRASENQSPSSSNYFSPRESTDFSSSSQEAFAASAVGSGERRGGGPVFPAPVVGSGGATSGKLLLEADELCDDGGDGRGAVVPGAGLRRPTYTPPSIMPQKHWVYVKRGGNCPAPTPLVPQDPDLEEEEEEEDLVLTCEDDEDEELGGSSRVPVGGGPEATLSISDVRTLSEPPDKGEEQVNFCESSNDFGPYEGGGPVAGLDDSGGPTPSSYAPSHPPRPLLPLDMQGNQILVFPSSSSSSSSQAPGQPPGNQAEHGAVTVGGTSVGSLGVPGSVGGVPGGTGSGDGNKIFLCHCGKAFSHKSMRDRHVNMHLNLRPFDCPVCNKKFKMKHHLTEHMKTHTGLKPYECGVCAKKFMWRDSFMRHRGHCERRHRLGGVGAVPGPGTPTGPSLPSKRESPGVGGGSGDEASAATPPSSRRVWSPPRVHKVEMGFGGGGGAN |
| 2575 | sp|Q96F45|ZN503\_HUMAN | MSTAPSLSALRSSKHSGGGGGGGGGGGADPAWTSALSGNSSGPGPGSSPAGSTKPFVHAVPPSDPLRQANRLPIKVLKMLTARTGHILHPEYLQPLPSTPVSPIELDAKKSPLALLAQTCSQIGKPDPSPSSKLSSVASNGGGAGGAGGGAAGDKDTKSGPLKLSDIGVEDKSSFKPYSKPGSDKKEPGGGGGGGGGGGGGGGGVSSEKSGFRVPSATCQPFTPRTGSPSSSASACSPGGMLSSAGGAPEGKDDKKDTDVGGGGKGTGGASAEGGPTGLAHGRISCGGGINVDVNQHPDGGPGGKALGSDCGGSSGSSSGSGPSAPTSSSVLGSGLVAPVSPYKPGQTVFPLPPAGMTYPGSLAGAYAGYPPQFLPHGVALDPTKPGSLVGAQLAAAAAGSLGCSKPAGSSPLAGASPPSVMTASLCRDPYCLSYHCASHLAGAAAASASCAHDPAAAAAALKSGYPLVYPTHPLHGVHSSLTAAAAAGATPPSLAGHPLYPYGFMLPNDPLPHICNWVSANGPCDKRFATSEELLSHLRTHTAFPGTDKLLSGYPSSSSLASAAAAAMACHMHIPTSGAPGSPGTLALRSPHHALGLSSRYHPYSKSPLPTPGAPVPVPAATGPYYSPYALYGQRLTTASALGYQ |
| 2576 | sp|Q53FD0|ZC21C\_HUMAN | MAGLQRLASHLPVGVMLPHNTTEAPGPHSAKQDSYEQGDSSQQSLKGHLRNNFQKQLLSNKELILDKVYTHPKWNTQTKARSYSYPHCTGISQQDPESDSQGQGNGLFYSSGPQSWYPKANNQDFIPFTKKRVGVDRAFPLKPMVHRKSCSTGEAGTDGDHNVYPRPPEPREFSSRNFGVRNQGNFSVVGTVLAATQAEKAVANFDRTEWVQIRRLEAAGESLEEEIRRKQILLRGKLKKTEEELRRIQTQKEQAKENENGELQKIILPRSRVKGNKSNTMYKPIFSPEFEFEEEFSRDRREDETWGRSQQNSGPFQFSDYRIQRLKRERLVASNNKIRDPVSEPSVEKFSPPSETPVGALQGSARNSSLSMAPDSSGSSGSIEEPQLGECSHCGRKFLSFRLERHSNICSRMRGSKRKVFDSSRARAKGTELEQYLNWKGPASAKAEPPQKSNWR |
| 2577 | sp|Q8K3Y6|ZCCHV\_RAT | MADPGVCCFITKILCAHGGRMTLEELLGEIRLPEAQLYELLETAGPDRFVLLETGGQAGITRSVVATTRARVCRRKYCQRPCDSLHLCKLNLLGRCHYAQSQRNLCKYSHDVLSEQNFQILKNHELSGLNQEELACLLVQSDPFFLPEICKSYKGEGRKQTCGQPQPCERLHICEHFTRGNCSYLNCLRSHNLMDRKVLTIMREHGLSPDVVQNIQDICNNKHARRNPPGTRAAHPHRRGGAHRDRSKSRDRFLHNSLEFLSPVVSPLGSGPPSPDVTSCKDSLEDVSVDVTQKFKYLGTHDRAQLSPVSSKAAGVQGPSQMRASQEFSEDGNLDDIFSRNRSDSSSSRASAAKVAQRNEAVAMKMGMEVKGKKEAPDIDRVPFLNSYIDGVTMEKASVSGIPGKKFTANDLENLLLLNDTWKNVAKPQDLQTTGRITDSGQDKAFLQNKYGGNPVWASASTHNAPNGSSQIMDETPNVSKSSTSGFAIKPAIAGGKEAVYSGVQSPRSQVLAVPGEATTPVQSNRLPQSPLSSSSHRAAASGSPGKNSTHTSVSPAIESSRMTSDPDEYLLRYILNPLFRMDNHGPKEICQDHLYKGCQQSHCDRSHFHLPYRWQMFVYTTWRDFQDMESIEQAYCDPHVELILIENHQINFQKMTCDSYPIRRLSTPSYEEKPLSAVFATKWIWYWKNEFNEYIQYGNESPGHTSSDINSAYLESFFQSCPRGVLPFQAGSQKYELSFQGMIQTNIASKTQRHVVRRPVFVSSNDVEQKRRGPE |
| 2578 | sp|P22469|Z600\_DROME | MSSTNETNQVLQRLNSLKIVETPKEQHEFGKRECYSLDSKKYSLVPATPSSSGHGKFQTELKKRRKNKLNRMYTYEADKNFIKARKSLNF |
| 2579 | sp|Q0WW55|ZEUS1\_ARATH | MKRICSVSSVQLFSRSFRALASPRSLNYPLQCIKRSSVRMESSNFSSGVRTESSVKPRGALIVLEGLDRSGKSTQCAKLLSFLNGLGHPTELWRFPDRETSVGQMISAYLSNKSQLDDHTIHLLFSANRWEKRSLMEEKLKTGTTLIVDRYSYSGVAFSSAKGLDIEWCKAPEIGLLAPDSVLYLDISPERAAERGGYGDERYERVEFQKKVADFYQTLGDSSWKIINASDAMEEVEKKIQQVVLDQVKECTEGKPLSLLWSS |
| 2580 | sp|P09916|SLIB\_RAT | MPLWVFFVLLTLTSGSHCSLPPSPPFRVRRHADAIFTSSYRRILGQLYARKLLHEIMNRQQGERNQEQRSRFNRHLDRVWAEDKQMALESILQGFPRMKLSAEA |
| 2581 | sp|Q05066|SRY\_HUMAN | MQSYASAMLSVFNSDDYSPAVQENIPALRRSSSFLCTESCNSKYQCETGENSKGNVQDRVKRPMNAFIVWSRDQRRKMALENPRMRNSEISKQLGYQWKMLTEAEKWPFFQEAQKLQAMHREKYPNYKYRPRRKAKMLPKNCSLLPADPASVLCSEVQLDNRLYRDDCTKATHSRMEHQLGHLPPINAASSPQQRDRYSHWTKL |
| 2582 | sp|P08395|SPPA\_ECOLI | MRTLWRFIAGFFKWTWRLLNFVREMVLNLFFIFLVLVGVGIWMQVSGGDSKETASRGALLLDISGVIVDKPDSSQRFSKLSRQLLGASSDRLQENSLFDIVNTIRQAKDDRNITGIVMDLKNFAGGDQPSMQYIGKALKEFRDSGKPVYAVGENYSQGQYYLASFANKIWLSPQGVVDLHGFATNGLYYKSLLDKLKVSTHVFRVGTYKSAVEPFIRDDMSPAAREADSRWIGELWQNYLNTVAANRQIPAEQVFPGAQGLLEGLTKTGGDTAKYALENKLVDALASSAEIEKALTKEFGWSKTDKNYRAISYYDYALKTPADTGDSIGVVFANGAIMDGEETQGNVGGDTTAAQIRDARLDPKVKAIVLRVNSPGGSVTASEVIRAELAAARAAGKPVVVSMGGMAASGGYWISTPANYIVANPSTLTGSIGIFGVITTVENSLDSIGVHTDGVSTSPLADVSITRALPPEAQLMMQLSIENGYKRFITLVADARHSTPEQIDKIAQGHVWTGQDAKANGLVDSLGDFDDAVAKAAELAKVKQWHLEYYVDEPTFFDKVMDNMSGSVRAMLPDAFQAMLPAPLASVASTVKSESDKLAAFNDPQNRYAFCLTCANMR |
| 2583 | sp|P0DH86|SRK\_ARATH | MRGELPNKHHSYTFFVFLFFFLILFPDLSISVNTLSATESLTISSNKTIVSPGGVFELGFFRILGDSWYLGIWYKKISQRTYVWVANRDTPLSNPIGILKISNANLVILDNSDTHVWSTNLTGAVRSSVVAELLDNGNFVLRGSKINESDEFLWQSFDFPTDTLLPQMKLGRDHKRGLNRFVTSWKSSFDPSSGSFMFKLETLGLPEFFGFTSFLEVYRSGPWDGLRFSGILEMQQWDDIIYNFTENREEVAYTFRVTDHNSYSRLTINTVGRLEGFMWEPTQQEWNMFWFMPKDTCDLYGICGPYAYCDMSTSPTCNCIKGFQPLSPQDWASGDVTGRCRRKTQLTCGEDRFFRLMNMKIPATTAAIVDKRIGLKECEEKCKTHCNCTAYANSDIRNGGSGCIIWIGEFRDIRNYAADGQDLFVRLAAAEFGERRTIRGKIIGLIIGISLMLVLSFIIYCFWKKKQKRARATAAPIGYRDRIQELIITNGVVMSSGRRLLGEEEDLELPLTEFETVVMATENFSDSNILGRGGFGIVYKGRLLDGQEIAVKRLSEMSSQGTNEFKNEVRLIARLQHINLVRLLSCCIYADEKILIYEYLENGSLDSHLFETTQSSNKLNWQTRFSIINGIARGLLYLHQDSRFKIIHRDLKASNVLLDKNMTPKISDFGMARIFERDETEANTRKVVGTYGYMSPEYAMEGIFSVKSDVFSFGVLVLEIVSGKRNRGFHNSGQDNNLLGYTWENWKEGKGLEIVDSIIVDSSSSMSLFQPHEVLRCIQIGLLCVQERAEDRPKMSSVVLMLGSEKGEIPQPKRPGYCVGRSSLDTADSSSSTKRDSESLTVNQITVSVINAR |
| 2584 | sp|Q9Y6N5|SQOR\_HUMAN | MVPLVAVVSGPRAQLFACLLRLGTQQVGPLQLHTGASHAARNHYEVLVLGGGSGGITMAARMKRKVGAENVAIVEPSERHFYQPIWTLVGAGAKQLSSSGRPTASVIPSGVEWIKARVTELNPDKNCIHTDDDEKISYRYLIIALGIQLDYEKIKGLPEGFAHPKIGSNYSVKTVEKTWKALQDFKEGNAIFTFPNTPVKCAGAPQKIMYLSEAYFRKTGKRSKANIIFNTSLGAIFGVKKYADALQEIIQERNLTVNYKKNLIEVRADKQEAVFENLDKPGETQVISYEMLHVTPPMSPPDVLKTSPVADAAGWVDVDKETLQHRRYPNVFGIGDCTNLPTSKTAAAVAAQSGILDRTISVIMKNQTPTKKYDGYTSCPLVTGYNRVILAEFDYKAEPLETFPFDQSKERLSMYLMKADLMPFLYWNMMLRGYWGGPAFLRKLFHLGMS |
| 2585 | sp|O70491|STRA6\_MOUSE | MESQASENGSQTSSGVTDDYSSWYIEEPLGAEEVQPEGVIPLCQLTAPPALLHACLASLSFLVLLLLALLVRRRRLWPRCGHRGLGLPSPVDFLAGDLSWTVPAAVFVVLFSNLCLLLPDENPLPFLNLTAASSPDGEMETSRGPWKLLALLYYPALYYPLAACASAGHQAAFLLGTVLSWAHFGVQVWQKAECPQDPKIYKHYSLLASLPLLLGLGFLSLWYPVQLVQSLRHRTGAGSQGLQTSYSEKYLRTLLCPKKLDSCSHPASKRSLLSRAWAFSHHSIYTPQPGFRLPLKLVISATLTGTATYQVALLLLVSVVPTVQKVRAGINTDVSYLLAGFGIVLSEDRQEVVELVKHHLWTVEACYISALVLSCASTFLLLIRSLRTHRANLQALHRGAALDLDPPLQSIHPSRQAIVSWMSFCAYQTAFSCLGLLVQQVIFFLGTTSLAFLVFVPLLHGRNLLLLRSLESTWPFWLTVALAVILQNIAANWIFLRTHHGYPELTNRRMLCVATFLLFPINMLVGAIMAVWRVLISSLYNTVHLGQMDLSLLPQRAASLDPGYHTYQNFLRIEASQSHPGVIAFCALLLHAPSPQPRPPLAPQDSLRPAEEEEGMQLLQTKDLMAKGAGHKGSQSRARWGLAYTLLHNPSLQAFRKAALTSAKANGTQP |
| 2586 | sp|P07664|SRYD\_DROME | MDTCFFCGAVDLSDTGSSSSMRYETLSAKVPSSQKTVSLVLTHLANCIQTQLDLKPGARLCPRCFQELSDYDTIMVNLMTTQKRLTTQLKGALKSEFEVPESGEDILVEEVEIPQSDVETDADAEADALFVELVKDQEESDTEIKREFVDEEEEEDDDDDDEFICEDVDVGDSEALYGKSSDGEDRPTKKRVKQECTTCGKVYNSWYQLQKHISEEHSKQPNHICPICGVIRRDEEYLELHMNLHEGKTEKQCRYCPKSFSRPVNTLRHMRMHWDKKKYQCEKCGLRFSQDNLLYNHRLRHEAEENPIICSICNVSFKSRKTFNHHTLIHKENRPRHYCSVCPKSFTERYTLKMHMKTHEGDVVYGVREEAPADEQQVVEELHVDVDESEAAVTVIMSDNDENSGFCLICNTNFENKKELEHHLQFDHDVVLK |
| 2587 | sp|P0AGE4|SSTT\_ECOLI | MTTQRSPGLFRRLAHGSLVKQILVGLVLGILLAWISKPAAEAVGLLGTLFVGALKAVAPILVLMLVMASIANHQHGQKTNIRPILFLYLLGTFSAALAAVVFSFAFPSTLHLSSSAGDISPPSGIVEVMRGLVMSMVSNPIDALLKGNYIGILVWAIGLGFALRHGNETTKNLVNDMSNAVTFMVKLVIRFAPIGIFGLVSSTLATTGFSTLWGYAQLLVVLVGCMLLVALVVNPLLVWWKIRRNPFPLVLLCLRESGVYAFFTRSSAANIPVNMALCEKLNLDRDTYSVSIPLGATINMAGAAITITVLTLAAVNTLGIPVDLPTALLLSVVASLCACGASGVAGGSLLLIPLACNMFGISNDIAMQVVAVGFIIGVLQDSCETALNSSTDVLFTAAACQAEDDRLANSALRN |
| 2588 | sp|P20065|TYB4\_MOUSE | MLLPATMSDKPDMAEIEKFDKSKLKKTETQEKNPLPSKETIEQEKQAGES |
| 2589 | sp|Q7TMI3|UHRF2\_MOUSE | MWIQVRTIDGSQTRTIEDVSRKATIEELRERVWALFDVRPECQRLFYRGKQLENGYTLFDYDVGLNDIIQLLVRPDSSLPSTSKQNDAQVKPSSHNPPKVKKTARGGSSSQPSTSARTCLIDPGFGLYKVNELVDARDVGLGAWFEAHIHSVTRASDGHSRGKTPLKNGSSYKRTNGNVNHNSKENTNKLDNVPSTSNSDSVAADEDVIYHIEYDEYPESGILEMNVKDLRPRARTILKWNELNVGDVVMVNYNVENPGKRGFWYDAEITTLKTISRTKKEVRVKVFLGGSEGTLNDCRVMSVDEIFKIEKPGAHPISFADGKFLRKNDPECDLCGGDPDKTCHMCSCHKCGEKRDPNMQLLCDECNMAYHIYCLSPPLDKVPEEEYWYCPSCKTDSSEVVKAGERLKLSKKKAKMPSASTESRRDWGRGMACVGRTKECTIVPSNHYGPIPGIPVGSTWRFRVQVSEAGVHRPHVGGIHGRSNDGAYSLVLAGGFEDEVDRGDEFTYTGSGGKNLAGNKRIGAPSADQTLTNMNRALALNCDAPLDDKIGAESRNWRAGKPVRVIRSFKGRKISKYAPEEGNRYDGIYKVVKYWPEISSSHGFLVWRYLLRRDDVEPAPWTSEGIERSRRLCLRLQYPAGYPSEKEGKKTKGQSKKQGSEATKRPASDDECPGDSKVLKASDSTDAVEAFQLTPQQQRLIREDCQNQKLWDEVLASLVEGPNFLKKLEQSFMCVCCQELVYQPVTTECFHNVCKDCLQRSFKAQVFSCPACRHDLGQNYVMVLNETLQTLLDLFFPGYSKGR |
| 2590 | sp|Q9FPS9|UBP15\_ARATH | MLEPRGADIPILFLVLVVLPVVAYILLGKWSNISEKRVRANLLAQMAAEEALRAETVVNADRGVRFESVATENRAQRTRTKTVSAGGGAVRAEFDAGARETVAEQRSDSVTATCGVTVVAPVNNNELHVCARCFGPAKTRCSRCKSVRYCSGKCQIIHWRVAHKDECVPVESCSSSSERVSFEKDSVLYDHGMDSTMYSNNTTQAAKGKTSKSSVDFASLGISQNDITPQINTQGRKSVGKQHSSKANRESCRRDSATVFDSSDEAASAGGDNKTSHIKHKSRGNSYAAETNPRRHSVDSSAVQMNGQSFVSGMQESHKHENNLGVRSSFGCPNTQYPSNGTRTATLPRTGINKSGEQSCTETSKKGQVAAVSKTVRSKDTGISEESNGISSTMGIMKMMGLRNSTKHDDRYKNLKMLFPYEEFLKFFQCEVFDLSPRGLVNCGNSCYANAVLQSLTCTKPLVAYLLRRSHSRSCSGKDWCLMCELEQHVMMLRESGGPLSASRILSHMRSINCQIGDGSQEDAHEFLRLLVASMQSICLERLGGETKVDPRLQETTLVQHMFGGRLRSKVKCLRCDHESERYENIMDLTLEIYGWVESLQDALTQFTRPEDLDGENMYRCSRCAGYVRARKELSIHEAPNILTIVLKRFQEGRYGKINKCISFPEMLDMIPFMTRTGDVPPLYMLYAVIVHLDTLNASFSGHYISYVKDLRGNWYRIDDSEIHPVPMTQVMSEGAYMLFYMRSYPRPQRGEHNGKAPVHHSQPRNEMKEQRKPVNRFKPRADHKNTESSSSEWSLFTSSDEASFTTESTRDSFSTIDYTDVCHVVDSSSPFAIFNNVYHNVEPSPHNTVACRMFSGTKPETRYFVEQETNHNNTVVLDATPSLYPIPAPYPPHDYYDQSMYVNYETNPEFNNGQDQDRTYSYW |
| 2591 | sp|Q8GZA8|ULT1\_ARATH | MANNEGEMQCGSMLFKQEELQEMSGVNVGGDYVEVMCGCTSHRYGDAVARLRVFPTGDLEITCECTPGCDEDKLTPAAFEKHSGRETARKWKNNVWVIIGGEKVPLSKTVLLKYYNESSKKCSRSNRSQGAKVCHRDEFVGCNDCGKERRFRLRSRDECRLHHNAMGDPNWKCSDFPYDKITCEEEEERGSRKVYRGCTRSPSCKGCTSCVCFGCELCRFSECTCQTCVDFTSNVKA |
| 2592 | sp|P23678|UN104\_CAEEL | MSSVKVAVRVRPFNQREISNTSKCVLQVNGNTTTINGHSINKENFSFNFDHSYWSFARNDPHFITQKQVYEELGVEMLEHAFEGYNVCIFAYGQTGSGKSYTMMGKANDPDEMGIIPRLCNDLFARIDNNNDKDVQYSVEVSYMEIYCERVKDLLNPNSGGNLRVREHPLLGPYVDDLTKMAVCSYHDICNLMDEGNKARTVAATNMNSTSSRSHAVFTIVLTQKRHCADSNLDTEKHSKISLVDLAGSERANSTGAEGQRLKEGANINKSLTTLGLVISKLAEESTKKKKSNKGVIPYRDSVLTWLLRENLGGNSKTAMLAALSPADINFDETLSTLRYADRAKQIVCQAVVNEDPNAKLIRELNEEVIKLRHILKDKGIDVTDVQETPGKHKKGPKLPAHVHEQLEKLQESEKLMAEIGKTWEQKLIHTEEIRKQREEELRDMGLACAEDGTTLGVFSPKKLPHLVNLNEDPLMSECLIYYLKEGVTSVGRPEAEHRPDILLSGEAILELHCEFINEDGNVTLTMKPNASCYINGKQVTTPTVLHTGSRVILGEHHVFRYNDPQEARQSRHNLAAIAEQPIDWKYAQQELLDKQGIDLKADMEKKMLEMESQYRREKVELEQKMYHQTREYESMIENLQKQVDLAQSYISGGGSIWEGERMLTSSLLEFPEELKWTSDQKRVVLKAAIKWRYHQFTSVRDDLWGNAIFVKEANAISVELKKKVQFQFALLTDTMYSPLPPDLLPPGEDLTLRPYPKTVVAIQVQDLKNGATHYWSIEKLKQRLEAMRDMYETDAEMSPADGDPMMDALMGTDPFYDRFPWFRMVGRAFVYLNNLLHNVPLIHKVAVVNEKGEVKGYLKVAIEPVQKDEVINQKKGVRQTAKLHFRKEDFLKSHKNGETSDSDALAFPEHMQEEVEFCFRVVVLQAIDVADTYSDVFCQFNFLHRHDEAFSTEPMKNSKSPLTFEHTQNLHIKMSKTFLHYLHHFPIIFEVFGHFQPKSEQFNFERQNSALGRRLSTKLTFQQPSLVISTPVKSKKANAPIQNNNASVKSKHDLLVWFEICELANNGEYVPTIVDHAQGLPTHGIFLLHQGIQRRIKITICHEKGELKWKDCQELVVGRIRAGPEWAGGDDVDVLSLGLFPGTFMEFSMDDRTFFQFEAAWDSSLHNSPLLNRVSNYGDQIYMTLSAYMELDGCAQPAVVTKDLCLLIYARDSKISAASRFCRSLVGGISKSPEMNRVPGVYQLCLKDGSDSGSPGAIRRQRRVLDTSSAYVRGEENLGQWRPRGDSLIFEHQWELEKLTRLQQVERVRLFLRLRDRLKGKKNKGEARTPVSPCDPVCAIPESIKLDEKDKGIVGKVLGLIRRKIPMNKDPPTGNKAQELSDESGSNSITSPVSDKSLIKSSRSSDLLCRQKSKSDQNLASNDDIVDNLGGMKRSLSGSRILQLNILVPEVLEERVGVVVSKKGYMNFLEEKTQGWTRRWVIVRRPYILLFRDDRDLVIRGIINLANARIEHSEDQQAMVKVPNTFSVCTNQRGFLMQMMPGDEMYDWLYAINPLMAGQMKLHGNQNGTTLKSPTSSSSIAAS |
| 2593 | sp|Q5QF96|UT1\_BOVIN | MDDNPTAVKLDQGGNQAPQGRGRRCLPKALGYITGDMKEFANWLKDKPQALQFVDWVLRGISQVVFVSNPISGILILVGLLVQNPWCALNGCVGTVVSTLTALLLSQDRSAITAGLQGYNATLVGILMAIYSDKGNYFWWLLFPVSAMSMTCPVFSSALNSVLSKWDLPVFTLPFNMALSMYLSATGHYNPFFPSTLITPVTSVPNVTWPDLSALQLLKSLPVGVGQIYGCDNPWTGGIFLGAILLSSPLMCLHAAIGSLLGIIAGLSLSAPFEDIYAGLWGFNSSLACIAIGGTFMALTWQTHLLALACALFTAYLGASMSHVMAVVGLPSGTWPFCLATLLFLLLTTKNPNIYKMPISKVTYPEENRIFYLQSRKRTVQGPL |
| 2594 | sp|Q9N2W5|UBXN2\_CAEEL | MSRNIRTFRDIGNNDDGGPDSDDSGADAAERGAPQEFYAGSGQAVQGPRGAAARGPDSEAHIRRILQAAEVVQPEGGEAPRGRPSGRETISLTLHLWSDGLSIEDGPLMSRQDPRTIEFLESVGKGEIPPSLVQQYPGKEIDFKVNRHHEEYVAPKMKPFGGSGVRLGNVVPTVLGQSSSSATTAGTSSATTDHNPDHTAENEAKQLEDAKKELSTNMNEPTTNIQIRLPNNQRLVGIFNHSHTLEAVRTFICTARPDMIYAPFQMMAAYPPKPFEDESQTLKDANVLNSVVAVKILPTTN |
| 2595 | sp|Q8NB66|UN13C\_HUMAN | MVANFFKSLILPYIHKLCKGMFTKKLGNTNKNKEYRQQKKDQDFPTAGQTKSPKFSYTFKSTVKKIAKCSSTHNLSTEEDEASKEFSLSPTFSYRVAIANGLQKNAKVTNSDNEDLLQELSSIESSYSESLNELRSSTENQAQSTHTMPVRRNRKSSSSLAPSEGSSDGERTLHGLKLGALRKLRKWKKSQECVSSDSELSTMKKSWGIRSKSLDRTVRNPKTNALEPGFSSSGCISQTHDVMEMIFKELQGISQIETELSELRGHVNALKHSIDEISSSVEVVQSEIEQLRTGFVQSRRETRDIHDYIKHLGHMGSKASLRFLNVTEERFEYVESVVYQILIDKMGFSDAPNAIKIEFAQRIGHQRDCPNAKPRPILVYFETPQQRDSVLKKSYKLKGTGIGISTDILTHDIRERKEKGIPSSQTYESMAIKLSTPEPKIKKNNWQSPDDSDEDLESDLNRNSYAVLSKSELLTKGSTSKPSSKSHSARSKNKTANSSRISNKSDYDKISSQLPESDILEKQTTTHYADATPLWHSQSDFFTAKLSRSESDFSKLCQSYSEDFSENQFFTRTNGSSLLSSSDRELWQRKQEGTATLYDSPKDQHLNGGVQGIQGQTETENTETVDSGMSNGMVCASGDRSHYSDSQLSLHEDLSPWKEWNQGADLGLDSSTQEGFDYETNSLFDQQLDVYNKDLEYLGKCHSDLQDDSESYDLTQDDNSSPCPGLDNEPQGQWVGQYDSYQGANSNELYQNQNQLSMMYRSQSELQSDDSEDAPPKSWHSRLSIDLSDKTFSFPKFGSTLQRAKSALEVVWNKSTQSLSGYEDSGSSLMGRFRTLSQSTANESSTTLDSDVYTEPYYYKAEDEEDYTEPVADNETDYVEVMEQVLAKLENRTSITETDEQMQAYDHLSYETPYETPQDEGYDGPADDMVSEEGLEPLNETSAEMEIREDENQNIPEQPVEITKPKRIRPSFKEAALRAYKKQMAELEEKILAGDSSSVDEKARIVSGNDLDASKFSALQVCGGAGGGLYGIDSMPDLRRKKTLPIVRDVAMTLAARKSGLSLAMVIRTSLNNEELKMHVFKKTLQALIYPMSSTIPHNFEVWTATTPTYCYECEGLLWGIARQGMKCLECGVKCHEKCQDLLNADCLQRAAEKSSKHGAEDKTQTIITAMKERMKIREKNRPEVFEVIQEMFQISKEDFVQFTKAAKQSVLDGTSKWSAKITITVVSAQGLQAKDKTGSSDPYVTVQVGKNKRRTKTIFGNLNPVWDEKFYFECHNSTDRIKVRVWDEDDDIKSRVKQHFKKESDDFLGQTIVEVRTLSGEMDVWYNLEKRTDKSAVSGAIRLKINVEIKGEEKVAPYHIQYTCLHENLFHYLTEVKSNGGVKIPEVKGDEAWKVFFDDASQEIVDEFAMRYGIESIYQAMTHFSCLSSKYMCPGVPAVMSTLLANINAFYAHTTVSTNIQVSASDRFAATNFGREKFIKLLDQLHNSLRIDLSKYRENFPASNTERLQDLKSTVDLLTSITFFRMKVLELQSPPKASMVVKDCVRACLDSTYKYIFDNCHELYSQLTDPSKKQDIPREDQGPTTKNLDFWPQLITLMVTIIDEDKTAYTPVLNQFPQELNMGKISAEIMWTLFALDMKYALEEHENQRLCKSTDYMNLHFKVKWFYNEYVRELPAFKDAVPEYSLWFEPFVMQWLDENEDVSMEFLHGALGRDKKDGFQQTSEHALFSCSVVDVFAQLNQSFEIIKKLECPNPEALSHLMRRFAKTINKVLLQYAAIVSSDFSSHCDKENVPCILMNNIQQLRVQLEKMFESMGGKELDSEASTILKELQVKLSGVLDELSVTYGESFQVIIEECIKQMSFELNQMRANGNTTSNKNSAAMDAEIVLRSLMDFLDKTLSLSAKICEKTVLKRVLKELWKLVLNKIEKQIVLPPLTDQTGPQMIFIAAKDLGQLSKLKEHMIREDARGLTPRQCAIMEVVLATIKQYFHAGGNGLKKNFLEKSPDLQSLRYALSLYTQTTDALIKKFIDTQTSQSRSSKDAVGQISVHVDITATPGTGDHKVTVKVIAINDLNWQTTAMFRPFVEVCILGPNLGDKKRKQGTKTKSNTWSPKYNETFQFILGKENRPGAYELHLSVKDYCFAREDRIIGMTVIQLQNIAEKGSYGAWYPLLKNISMDETGLTILRILSQRTSDDVAKEFVRLKSETRSTEESA |
| 2596 | sp|Q6SEG5|UCHL1\_PIG | MQLKPMEINPEMLNKVLTRLGVAGHWRFADVLGLEEESLGSVPAPACALLLLFPLTAQHENFRKKQIEELKGQEVSPKVYFMKQTIGNSCGTIGLIHAVANNQDKLEFEDGSVLKQFLSETEKLSPEDRAKCFEKNEAIQAAHDAVAQEGQCRVDDKVNFHFILFNNVDGHLYELDGRMPFPVNHGASSEDSLLQDAAKVCREFTEREQGEVRFSAVALCKAA |
| 2597 | sp|O00526|UPK2\_HUMAN | MAPLLPIRTLPLILILLALLSPGAADFNISSLSGLLSPALTESLLVALPPCHLTGGNATLMVRRANDSKVVTSSFVVPPCRGRRELVSVVDSGAGFTVTRLSAYQVTNLVPGTKFYISYLVKKGTATESSREIPMSTLPRRNMESIGLGMARTGGMVVITVLLSVAMFLLVLGFIIALALGSRK |
| 2598 | sp|P07024|USHA\_ECOLI | MKLLQRGVALALLTTFTLASETALAYEQDKTYKITVLHTNDHHGHFWRNEYGEYGLAAQKTLVDGIRKEVAAEGGSVLLLSGGDINTGVPESDLQDAEPDFRGMNLVGYDAMAIGNHEFDNPLTVLRQQEKWAKFPLLSANIYQKSTGERLFKPWALFKRQDLKIAVIGLTTDDTAKIGNPEYFTDIEFRKPADEAKLVIQELQQTEKPDIIIAATHMGHYDNGEHGSNAPGDVEMARALPAGSLAMIVGGHSQDPVCMAAENKKQVDYVPGTPCKPDQQNGIWIVQAHEWGKYVGRADFEFRNGEMKMVNYQLIPVNLKKKVTWEDGKSERVLYTPEIAENQQMISLLSPFQNKGKAQLEVKIGETNGRLEGDRDKVRFVQTNMGRLILAAQMDRTGADFAVMSGGGIRDSIEAGDISYKNVLKVQPFGNVVVYADMTGKEVIDYLTAVAQMKPDSGAYPQFANVSFVAKDGKLNDLKIKGEPVDPAKTYRMATLNFNATGGDGYPRLDNKPGYVNTGFIDAEVLKAYIQKSSPLDVSVYEPKGEVSWQ |
| 2599 | sp|P12242|UCP1\_MOUSE | MVNPTTSEVQPTMGVKIFSAGVSACLADIITFPLDTAKVRLQIQGEGQASSTIRYKGVLGTITTLAKTEGLPKLYSGLPAGIQRQISFASLRIGLYDSVQEYFSSGRETPASLGNKISAGLMTGGVAVFIGQPTEVVKVRMQAQSHLHGIKPRYTGTYNAYRVIATTESLSTLWKGTTPNLMRNVIINCTELVTYDLMKGALVNNKILADDVPCHLLSALVAGFCTTLLASPVDVVKTRFINSLPGQYPSVPSCAMSMYTKEGPTAFFKGFVASFLRLGSWNVIMFVCFEQLKKELMKSRQTVDCTT |
| 2600 | sp|Q9UMX0|UBQL1\_HUMAN | MAESGESGGPPGSQDSAAGAEGAGAPAAAASAEPKIMKVTVKTPKEKEEFAVPENSSVQQFKEEISKRFKSHTDQLVLIFAGKILKDQDTLSQHGIHDGLTVHLVIKTQNRPQDHSAQQTNTAGSNVTTSSTPNSNSTSGSATSNPFGLGGLGGLAGLSSLGLNTTNFSELQSQMQRQLLSNPEMMVQIMENPFVQSMLSNPDLMRQLIMANPQMQQLIQRNPEISHMLNNPDIMRQTLELARNPAMMQEMMRNQDRALSNLESIPGGYNALRRMYTDIQEPMLSAAQEQFGGNPFASLVSNTSSGEGSQPSRTENRDPLPNPWAPQTSQSSSASSGTASTVGGTTGSTASGTSGQSTTAPNLVPGVGASMFNTPGMQSLLQQITENPQLMQNMLSAPYMRSMMQSLSQNPDLAAQMMLNNPLFAGNPQLQEQMRQQLPTFLQQMQNPDTLSAMSNPRAMQALLQIQQGLQTLATEAPGLIPGFTPGLGALGSTGGSSGTNGSNATPSENTSPTAGTTEPGHQQFIQQMLQALAGVNPQLQNPEVRFQQQLEQLSAMGFLNREANLQALIATGGDINAAIERLLGSQPS |
| 2601 | sp|P32571|UBP4\_YEAST | MEQNIISTIRDECIRHRSKYLTIAQLTAIAEAKINEFIITGKAKDQDLSSLLDKCIDILSIYKKNSKDIKNIISCKNKGAMISSNSVMIIQLNYVYYKVIHIIVTTNIPHLSEFAKIKLHKSTSDEGNGNNNNNEFQLMNIYNTLLETLLKDENIAKIKSFIKSSIKQTKLNHEQEECNLMRTGSYITSNQLNSLISSSANSASSQMEILLIDIRSRLEFNKSHIDTKNIICLEPISFKMSYSDHDLEKKSLITSPNSEIKMFQSRNLFKFIILYTDANEYNVKQQSVLLDILVNHSFEKPISDDFTKIFILESGFPGWLKSNYGRQVSSSFPSNNNIKDDSVYINGNTSGLSLQHLPKMSPSIRHSMDDSMKEMLVAPTPLNHLQQQQQQQSDNDHVLKRSSSFKKLFSNYTSPNPKNSNSNLYSISSLSISSSPSPLPLHSPDPVKGNSLPINYPETPHLWKNSETDFMTNQREQLNHNSFAHIAPINTKAITSPSRTATPKLQRFPQTISMNLNMNSNGHSSATSTIQPSCLSLSNNDSLDHTDVTPTSSHNYDLDFAVGLENLGNSCYMNCIIQCILGTHELTQIFLDDSYAKHININSKLGSKGILAKYFARLVHMMYKEQVDGSKKISISPIKFKLACGSVNSLFKTASQQDCQEFCQFLLDGLHEDLNQCGSNPPLKELSQEAEARREKLSLRIASSIEWERFLTTDFSVIVDLFQGQYASRLKCKVCSHTSTTYQPFTVLSIPIPKKNSRNNITIEDCFREFTKCENLEVDEQWLCPHCEKRQPSTKQLTITRLPRNLIVHLKRFDNLLNKNNDFVIYPFLLDLTPFWANDFDGVFPPGVNDDELPIRGQIPPFKYELYGVACHFGTLYGGHYTAYVKKGLKKGWLYFDDTKYKPVKNKADAINSNAYVLFYHRVYGV |
| 2602 | sp|Q53HI1|UNC50\_HUMAN | MLPSTSVNSLVQGNGVLNSRDAARHTAGAKRYKYLRRLFRFRQMDFEFAAWQMLYLFTSPQRVYRNFHYRKQTKDQWARDDPAFLVLLSIWLCVSTIGFGFVLDMGFFETIKLLLWVVLIDCVGVGLLIATLMWFISNKYLVKRQSRDYDVEWGYAFDVHLNAFYPLLVILHFIQLFFINHVILTDTFIGYLVGNTLWLVAVGYYIYVTFLGYSALPFLKNTVILLYPFAPLILLYGLSLALGWNFTHTLCSFYKYRVK |
| 2603 | sp|Q9NPD8|UBE2T\_HUMAN | MQRASRLKRELHMLATEPPPGITCWQDKDQMDDLRAQILGGANTPYEKGVFKLEVIIPERYPFEPPQIRFLTPIYHPNIDSAGRICLDVLKLPPKGAWRPSLNIATVLTSIQLLMSEPNPDDPLMADISSEFKYNKPAFLKNARQWTEKHARQKQKADEEEMLDNLPEAGDSRVHNSTQKRKASQLVGIEKKFHPDV |
| 2604 | sp|Q6TEK4|VKOR1\_RAT | MGTTWRSPGRLRLALCLAGLALSLYALHVKAARARNEDYRALCDVGTAISCSRVFSSRWGRGFGLVEHVLGADSILNQSNSIFGCMFYTIQLLLGCLRGRWASILLILSSLVSVAGSLYLAWILFFVLYDFCIVCITTYAINAGLMLLSFQKVPEHKVKKP |
| 2605 | sp|Q8VEJ9|VPS4A\_MOUSE | MTTSTLQKAIDLVTKATEEDKAKNYEEALRLYQHAVEYFLHAIKYEAHSDKAKESIRAKCMQYLDRAEKLKDYLRNKEKHGKKPVKENQSEGKGSDSDSEGDNPEKKKLQEQLMGAVVMEKPNIRWNDVAGLEGAKEALKEAVILPIKFPHLFTGKRTPWRGILLFGPPGTGKSYLAKAVATEANNSTFFSVSSSDLMSKWLGESEKLVKNLFELARQHKPSIIFIDEVDSLCGSRNENESEAARRIKTEFLVQMQGVGNNNDGTLVLGATNIPWVLDSAIRRRFEKRIYIPLPEEAARAQMFRLHLGSTPHNLTDANIHELARKTEGYSGADISIIVRDSLMQPVRKVQSATHFKKVCGPSRTNPSVMIDDLLTPCSPGDPGAIEMTWMDVPGDKLLEPVVCMSDMLRSLATTRPTVNADDLLKVKKFSEDFGQES |
| 2606 | sp|Q8TAA9|VANG1\_HUMAN | MDTESTYSGYSYYSSHSKKSHRQGERTRERHKSPRNKDGRGSEKSVTIQPPTGEPLLGNDSTRTEEVQDDNWGETTTAITGTSEHSISQEDIARISKDMEDSVGLDCKRYLGLTVASFLGLLVFLTPIAFILLPPILWRDELEPCGTICEGLFISMAFKLLILLIGTWALFFRKRRADMPRVFVFRALLLVLIFLFVVSYWLFYGVRILDSRDRNYQGIVQYAVSLVDALLFIHYLAIVLLELRQLQPMFTLQVVRSTDGESRFYSLGHLSIQRAALVVLENYYKDFTIYNPNLLTASKFRAAKHMAGLKVYNVDGPSNNATGQSRAMIAAAARRRDSSHNELYYEEAEHERRVKKRKARLVVAVEEAFIHIQRLQAEEQQKAPGEVMDPREAAQAIFPSMARALQKYLRITRQQNYHSMESILQHLAFCITNGMTPKAFLERYLSAGPTLQYDKDRWLSTQWRLVSDEAVTNGLRDGIVFVLKCLDFSLVVNVKKIPFIILSEEFIDPKSHKFVLRLQSETSV |
| 2607 | sp|Q2TAL6|VWC2\_HUMAN | MPSSTAMAVGALSSSLLVTCCLMVALCSPSIPLEKLAQAPEQPGQEKREHASRDGPGRVNELGRPARDEGGSGRDWKSKSGRGLAGREPWSKLKQAWVSQGGGAKAGDLQVRPRGDTPQAEALAAAAQDAIGPELAPTPEPPEEYVYPDYRGKGCVDESGFVYAIGEKFAPGPSACPCLCTEEGPLCAQPECPRLHPRCIHVDTSQCCPQCKERKNYCEFRGKTYQTLEEFVVSPCERCRCEANGEVLCTVSACPQTECVDPVYEPDQCCPICKNGPNCFAETAVIPAGREVKTDECTICHCTYEEGTWRIERQAMCTRHECRQM |
| 2608 | sp|P47810|WEE1\_MOUSE | MSFLSRQQPPPTRRVGAAYSLRQKLIFSPGSDCEEEEEEEEEGSGHSTGEDSAFQEPDSPLPSARSPAEAEAERRRRSPGAEPSSPGELEDDLLLQGGGGGAQAAGGGAEGDSWEEEGFGSSSPVKSPSTAYFLSSPFSPVRCGGPGDASPQGCGAPRAMDDPCSPQPDYPSTPPHKTFRKLRLFDTPHTPKSLLSKARVIDSGSVKLRGSSLFMDTEKSGKREFDTRQTPQVNINPFTPDPVLLHSSGRCRGRKRAYFNDSSEDMEASDYEFEDETRPAKRITITESNMKSRYTTEFHELEKIGSGEFGSVFKCVKRLDGCIYAIKRSKKPLAGSVDEQNALREVYAHAVLGQHPHVVRYFSAWAEDDHMLIQNEYCNGGSLADAISENYRVMSYLTEVELKDLLLQVGRGLRYIHSMSLVHMDIKPSNIFISRTSIPNAVSEEGDEDDWISNKVMFKIGDLGHVTRISSPQVEEGDSRFLANEVLQENYSHLPKADIFALALTVVCAAGAEPLPRNGEQWHEIRQGRLPRIPQVLSQEVTELLRVMIHPDPERRPSAMELVKHSVLLSASRKSAEQLRIELNAEKFKNSLLQKELKKAQMAAKVAAEERALFTDRMATRSTTQSNRTSRLIGKKMNRSVSLTIY |
| 2609 | sp|Q6B9X6|VWKA\_DICDI | MESKYVLSTEKESKTKPSGRVNVSDMDSISNSLSKTSLGTRKVPTSLKTDASRSGLSSGGSKTHISDESALRMVYGSTPRDEKTTTTKDSITLAKEKEKKIEKRNEEIKLTFKAIRASECVDLLFIVDCTGSMDPYIEQIKSDIVKLQEALKLKHSFLDIEFGFIRYTDFDVASNRCSTFQFSRSTVEFVRFVSEIRAGGGADGPEDVFGGMDLIKSMKWRPNSTRVVIHIADAPCHGTEYHSMADSYPGGDPNGIKLDDLLTDIISLNINYYFGHINLKETGQMIDFFDKKTKEISRNKKSINSFDSKETSKMNERIFISIEESISVSRSVLTEQYLGHNIDGSTGKQRSEREFEINTNMDIDFGELPYIQMLQTKFKMPSDIVTCLSSSYEMKLNEITISIKIAPNPFSHGACRLAYLGIDEHGKKVVLKQSKYIGGRENSKKRYFESMECQTVAAKFALEFNKQLSLTSSEHQITFTVAKVLQMKHSEKPMYFGIETFINGEYQKYNSNCGWLKDDAMSEILQTFSHWTYQESKNKAIVVDIQGVKTSKGYLLTDPAIHSTDTLRFGSCNLGKPGIIKFFQSHKCNQHCKKLGLTIPSFTSSSSTSSSSRSTSSSSSISYSY |
| 2610 | sp|Q9Y3C0|WASC3\_HUMAN | MDEDGLPLMGSGIDLTKVPAIQQKRTVAFLNQFVVHTVQFLNRFSTVCEEKLADLSLRIQQIETTLNILDAKLSSIPGLDDVTVEVSPLNVTSVTNGAHPEATSEQPQQNSTQDSGLQESEVSAENILTVAKDPRYARYLKMVQVGVPVMAIRNKMISEGLDPDLLERPDAPVPDGESEKTVEESSDSESSFSD |
| 2611 | sp|Q702N8|XIRP1\_HUMAN | MADTQTQVAPTPTMRMATAEDLPLPPPPALEDLPLPPPKESFSKFHQQRQASELRRLYRHIHPELRKNLAEAVAEDLAEVLGSEEPTEGDVQCMRWIFENWRLDAIGEHERPAAKEPVLCGDVQATSRKFEEGSFANSTDQEPTRPQPGGGDVRAARWLFETKPLDELTGQAKELEATVREPAASGDVQGTRMLFETRPLDRLGSRPSLQEQSPLELRSEIQELKGDVKKTVKLFQTEPLCAIQDAEGAIHEVKAACREEIQSNAVRSARWLFETRPLDAINQDPSQVRVIRGISLEEGARPDVSATRWIFETQPLDAIREILVDEKDFQPSPDLIPPGPDVQQQQHLFETRALDTLKGDEEAGAEAPPKEEVVPGDVRSTLWLFETKPLDAFRDKVQVGHLQRVDPQDGEGHLSSDSSSALPFSQSAPQRDELKGDVKTFKNLFETLPLDSIGQGEVLAHGSPSREEGTDSAGQAQGIGSPVYAMQDSKGRLHALTSVSREQIVGGDVQGYRWMFETQPLDQLGRSPSTIDVVRGITRQEVVAGDVGTARWLFETQPLEMIHQREQQERQKEEGKSQGDPQPEAPPKGDVQTIRWLFETCPMSELAEKQGSEVTDPTAKAEAQSCTWMFKPQPVDRPVGSREQHLQVSQVPAGERQTDRHVFETEPLQASGRPCGRRPVRYCSRVEIPSGQVSRQKEVFQALEAGKKEEQEPRVIAGSIPAGSVHKFTWLFENCPMGSLAAESIQGGNLLEEQPMSPSGNRMQESQETAAEGTLRTLHATPGILHHGGILMEARGPGELCLAKYVLSGTGQGHPYIRKEELVSGELPRIICQVLRRPDVDQQGLLVQEDPTGQLQLKPLRLPTPGSSGNIEDMDPELQQLLACGLGTSVARTGLVMQETEQGLVALTAYSLQPRLTSKASERSSVQLLASCIDKGDLSGLHSLRWEPPADPSPVPASEGAQSLHPTESIIHVPPLDPSMGMGHLRASGATPCPPQAIGKAVPLAGEAAAPAQLQNTEKQEDSHSGQKGMAVLGKSEGATTTPPGPGAPDLLAAMQSLRMATAEAQSLHQQVLNKHKQGPTPTATSNPIQDGLRKAGATQSNIRPGGGSDPRIPAAPRKVSREEQALPRGLPGGWVTIQDGIYTAHPVRTFDPPGGVQLSQREPQSRHRETALSVQAPRPLQGGPGQSTGPGREEPGGCTQMAWGPPGKAMAEVCPGGLQAAETTLKTAPLGRHILASGPQAAGASPHPHNAFVPPPPTLPAAVTGPDFPAGAHRAEDSIQQASEPLKDPLLHSHSSPAGQRTPGGSQTKTPKLDPTMPPKKKPQLPPKPAHLTQSHPPQRLPKPLPLSPSFSSEVGQREHQRGERDTAIPQPAKVPTTVDQGHIPLARCPSGHSQPSLQHGLSTTAPRPTKNQATGSNAQSSEPPKLNALNHDPTSPQWGPGPSGEQPMEGSHQGAPESPDSLQRNQKELQGLLNQVQALEKEAASSVDVQALRRLFEAVPQLGGAAPQAPAAHQKPEASVEQAFGELTRVSTEVAQLKEQTLARLLDIEEAVHKALSSMSSLQPEASARGHFQGPPKDHSAHKISVTVSSSARPSGSGQEVGGQTAVKNQAKVECHTEAQSQVKIRNHTEARGHTASTAPSTRRQETSREYLCPPRVLPSSRDSPSSPTFISIQSATRKPLETPSFKGNPDVSVKSTQLAQDIGQALLHQKGVQDKTGKKDITQCSVQPEPAPPSASPLPRGWQKSVLELQTGPGSSQHYGAMRTVTEQYEEVDQFGNTVLMSSTTVTEQAEPPRNPGSHLGLHASPLLRQFLHSPAGFSSDLTEAETVQVSCSYSQPAAQ |
| 2612 | sp|P57081|WDR4\_HUMAN | MAGSVGLALCGQTLVVRGGSRFLATSIASSDDDSLFIYDCSAAEKKSQENKGEDAPLDQGSGAILASTFSKSGSYFALTDDSKRLILFRTKPWQCLSVRTVARRCTALTFIASEEKVLVADKSGDVYSFSVLEPHGCGRLELGHLSMLLDVAVSPDDRFILTADRDEKIRVSWAAAPHSIESFCLGHTEFVSRISVVPTQPGLLLSSSGDGTLRLWEYRSGRQLHCCHLASLQELVDPQAPQKFAASRIAFWCQENCVALLCDGTPVVYIFQLDARRQQLVYRQQLAFQHQVWDVAFEETQGLWVLQDCQEAPLVLYRPVGDQWQSVPESTVLKKVSGVLRGNWAMLEGSAGADASFSSLYKATFDNVTSYLKKKEERLQQQLEKKQRRRSPPPGPDGHAKKMRPGEATLSC |
| 2613 | sp|P22726|WNT5B\_MOUSE | MPSLLLVVVAALLSSWAQLLTDANSWWSLALNPVQRPEMFIIGAQPVCSQLPGLSPGQRKLCQLYQEHMSYIGEGAKTGIRECQHQFRQRRWNCSTVDNTSVFGRVMQIGSRETAFTYAVSAAGVVNAISRACREGELSTCGCSRAARPKDLPRDWLWGGCGDNVEYGYRFAKEFVDAREREKNFAKGSEEQGRALMNLQNNEAGRRAVYKMADVACKCHGVSGSCSLKTCWLQLAEFRKVGDRLKEKYDSAAAMRITRQGKLELANSRFNQPTPEDLVYVDPSPDYCLRNETTGSLGTQGRLCNKTSEGMDGCELMCCGRGYDRFKSVQVERCHCRFHWCCFVRCKKCTEVVDQYVCK |
| 2614 | sp|Q7TQN3|WFKN2\_MOUSE | MCAPGYHRFWFHWGLLLLLLLEAPLRGLALPPIRYSHAGICPNDMNPNLWVDAQSTCKRECETDQECETYEKCCPNVCGTKSCVAARYMDVKGKKGPVGMPKEATCDHFMCLQQGSECDIWDGQPVCKCKDRCEKEPSFTCASDGLTYYNRCFMDAEACSKGITLSVVTCRYHFTWPNTSPPPPETTVHPTTASPETLGLDMAAPALLNHPVHQSVTVGETVSFLCDVVGRPRPELTWEKQLEDRENVVMRPNHVRGNVVVTNIAQLVIYNVQPQDAGIYTCTARNVAGVLRADFPLSVVRGGQARATSESSLNGTAFPATECLKPPDSEDCGEEQTRWHFDAQANNCLTFTFGHCHHNLNHFETYEACMLACMSGPLAICSLPALQGPCKAYVPRWAYNSQTGLCQSFVYGGCEGNGNNFESREACEESCPFPRGNQHCRACKPRQKLVTSFCRSDFVILGRVSELTEEQDSGRALVTVDEVLKDEKMGLKFLGREPLEVTLLHVDWTCPCPNVTVGETPLIIMGEVDGGMAMLRPDSFVGASSTRRVRKLREVMYKKTCDVLKDFLGLQ |
| 2615 | sp|P22561|WT1\_MOUSE | MGSDVRDLNALLPAVSSLGGGGGGCGLPVSGARQWAPVLDFAPPGASAYGSLGGPAPPPAPPPPPPPPHSFIKQEPSWGGAEPHEEQCLSAFTLHFSGQFTGTAGACRYGPFGPPPPSQASSGQARMFPNAPYLPSCLESQPTIRNQGYSTVTFDGAPSYGHTPSHHAAQFPNHSFKHEDPMGQQGSLGEQQYSVPPPVYGCHTPTDSCTGSQALLLRTPYSSDNLYQMTSQLECMTWNQMNLGATLKGMAAGSSSSVKWTEGQSNHGIGYESENHTAPILCGAQYRIHTHGVFRGIQDVRRVSGVAPTLVRSASETSEKRPFMCAYPGCNKRYFKLSHLQMHSRKHTGEKPYQCDFKDCERRFSRSDQLKRHQRRHTGVKPFQCKTCQRKFSRSDHLKTHTRTHTGKTSEKPFSCRWHSCQKKFARSDELVRHHNMHQRNMTKLHVAL |
| 2616 | sp|Q9M9S3|WHY1\_ARATH | MSQLLSTPLMAVNSNPRFLSSSSVLVTGGFAVKRHGFALKPTTKTVKLFSVKSRQTDYFEKQRFGDSSSSPSPAEGLPARFYVGHSIYKGKAALTVDPRAPEFVALDSGAFKLSKDGFLLLQFAPSAGVRQYDWSKKQVFSLSVTEIGTLVSLGPRESCEFFHDPFKGKSDEGKVRKVLKVEPLPDGSGHFFNLSVQNKLVNVDESIYIPITRAEFAVLISAFNFVLPYLIGWHAFANSIKPEETSRVNNASPNYGGDYEWNR |
| 2617 | sp|P04276|VTDB\_RAT | MKRVLVLLLALAFGHALERGRDYEKDKVCQELSTLGKDDFRSLSLILYSRKFPSSTFEQVSQLVKEVVSLTEECCAEGADPNCYDTRTSELSIKSCESDAPFPVHPGTSECCTKEGLERKLCMAALSHQPQEFPAYVEPTNDEICEAFRKDPKGFADQFLFEYSSNYGQAPLPLLVGYTKSYLSMVGSCCTSAKPTVCFLKERLQMKQLLLLTTMSNRVCSQYAAYGKEKSRMSHLIKLAQKVPTANLEDVLPLAEDLTEILSRCCKSTSEDCMARELPEHTLKICGNLSKKNSKFEECCYETTPMGIFMCSYFMPTAEPLQLPAIKLPTSKDLCGQSATQAMDQYTFELSRRTQVPEVFLSKVLDTTLKTLRECCDTQDSVSCFSTQSPLMKRQLTSFIEKGQEMCADYSENTFTEYKKKLAERLRTKMPNASPEELADMVAKHSDFASKCCSINSPPRYCSSQIDAEMRDILQS |
| 2618 | sp|O00755|WNT7A\_HUMAN | MNRKARRCLGHLFLSLGMVYLRIGGFSSVVALGASIICNKIPGLAPRQRAICQSRPDAIIVIGEGSQMGLDECQFQFRNGRWNCSALGERTVFGKELKVGSREAAFTYAIIAAGVAHAITAACTQGNLSDCGCDKEKQGQYHRDEGWKWGGCSADIRYGIGFAKVFVDAREIKQNARTLMNLHNNEAGRKILEENMKLECKCHGVSGSCTTKTCWTTLPQFRELGYVLKDKYNEAVHVEPVRASRNKRPTFLKIKKPLSYRKPMDTDLVYIEKSPNYCEEDPVTGSVGTQGRACNKTAPQASGCDLMCCGRGYNTHQYARVWQCNCKFHWCCYVKCNTCSERTEMYTCK |
| 2619 | sp|Q86Y07|VRK2\_HUMAN | MPPKRNEKYKLPIPFPEGKVLDDMEGNQWVLGKKIGSGGFGLIYLAFPTNKPEKDARHVVKVEYQENGPLFSELKFYQRVAKKDCIKKWIERKQLDYLGIPLFYGSGLTEFKGRSYRFMVMERLGIDLQKISGQNGTFKKSTVLQLGIRMLDVLEYIHENEYVHGDIKAANLLLGYKNPDQVYLADYGLSYRYCPNGNHKQYQENPRKGHNGTIEFTSLDAHKGVALSRRSDVEILGYCMLRWLCGKLPWEQNLKDPVAVQTAKTNLLDELPQSVLKWAPSGSSCCEIAQFLVCAHSLAYDEKPNYQALKKILNPHGIPLGPLDFSTKGQSINVHTPNSQKVDSQKAATKQVNKAHNRLIEKKVHSERSAESCATWKVQKEEKLIGLMNNEAAQESTRRRQKYQESQEPLNEVNSFPQKISYTQFPNSFYEPHQDFTSPDIFKKSRSPSWYKYTSTVSTGITDLESSTGLWPTISQFTLSEETNADVYYYRIIIPVLLMLVFLALFFL |
| 2620 | sp|Q9SKD9|WRK46\_ARATH | MMMEEKLVINELELGKELANRLMNNLKHTSSVDSNKTLISDILRIYQNAIFMLSFNQDKNILKRSLEIDGKDSKNVFKKRKVSEKNTEKVKVFVATEQENGSIDDGHCWRKYGQKEIHGSKNPRAYYRCTHRFTQDCLAVKQVQKSDTDPSLFEVKYLGNHTCNNITSPKTTTNFSVSLTNTNIFEGNRVHVTEQSEDMKPTKSEEVMISLEDLENKKNIFRTFSFSNHEIENGVWKSNLFLGNFVEDLSPATSGSAITSEVLSAPAAVENSETADSYFSSLDNIIDFGQDWLWS |
| 2621 | sp|P33886|WIS1\_SCHPO | MSSPNNQPLSCSLRQLSISPTAPPGDVGTPGSLLSLSSSSSSNTDSSGSSLGSLSLNSNSSGSDNDSKVSSPSREIPSDPPLPRAVPTVRLGRSTSSRSRNSLNLDMKDPSEKPRRSLPTAAGQNNIGSPPTPPGPFPGGLSTDIQEKLKAFHASRSKSMPEVVNKISSPTTPIVGMGQRGSYPLPNSQLAGRLSNSPVKSPNMPESGLAKSLAAARNPLLNRPTSFNRQTRIRRAPPGKLDLSNSNPTSPVSPSSMASRRGLNIPPTLKQAVSETPFSTFSDILDAKSGTLNFKNKAVLNSEGVNFSSGSSFRINMSEIIKLEELGKGNYGVVYKALHQPTGVTMALKEIRLSLEEATFNQIIMELDILHKAVSPYIVDFYGAFFVEGSVFICMEYMDAGSMDKLYAGGIKDEGVLARTAYAVVQGLKTLKEEHNIIHRDVKPTNVLVNSNGQVKLCDFGVSGNLVASISKTNIGCQSYMAPERIRVGGPTNGVLTYTVQADVWSLGLTILEMALGAYPYPPESYTSIFAQLSAICDGDPPSLPDSFSPEARDFVNKCLNKNPSLRPDYHELANHPWLLKYQNADVDMASWAKGALKEKGEKRS |
| 2622 | sp|P37370|VRP1\_YEAST | MAGAPAPPPPPPPPALGGSAPKPAKSVMQGRDALLGDIRKGMKLKKAETNDRSAPIVGGGVVSSASGSSGTVSSKGPSMSAPPIPGMGAPQLGDILAGGIPKLKHINNNASTKPSPSASAPPIPGAVPSVAAPPIPNAPLSPAPAVPSIPSSSAPPIPDIPSSAAPPIPIVPSSPAPPLPLSGASAPKVPQNRPHMPSVRPAHRSHQRKSSNISLPSVSAPPLPSASLPTHVSNPPQAPPPPPTPTIGLDSKNIKPTDNAVSPPSSEVPAGGLPFLAEINARRSERGAVEGVSSTKIQTENHKSPSQPPLPSSAPPIPTSHAPPLPPTAPPPPSLPNVTSAPKKATSAPAPPPPPLPAAMSSASTNSVKATPVPPTLAPPLPNTTSVPPNKASSMPAPPPPPPPPPGAFSTSSALSASSIPLAPLPPPPPPSVATSVPSAPPPPPTLTTNKPSASSKQSKISSSSSSSAVTPGGPLPFLAEIQKKRDDRFVVGGDTGYTTQDKQEDVIGSSKDDNVRPSPISPSINPPKQSSQNGMSFLDEIESKLHKQTSSNAFNAPPPHTDAMAPPLPPSAPPPPITSLPTPTASGDDHTNDKSETVLGMKKAKAPALPGHVPPPPVPPVLSDDSKNNVPAASLLHDVLPSSNLEKPPSPPVAAAPPLPTFSAPSLPQQSVSTSIPSPPPVAPTLSVRTETESISKNPTKSPPPPPSPSTMDTGTSNSPSKNLKQRLFSTGGSTLQHKHNTHTNQPDVDVGRYTIGGSNSIVGAKSGNERIVIDDSRFKWTNVSQMPKPRPFQNKTKLYPSGKGSSVPLDLTLFT |
| 2623 | sp|Q8BN21|VRK2\_MOUSE | MAPRRKEKYKLPVPLPEGKILDDMEGNRWALGKMIGSGGFGLIYLAFPTNKPNKDARHVIKLEYQENGPLFSELKFYQRAAKRECIQKWIQQRKLDYLGIPVFYGFGLTDFKGRSYRFMVMERLGIDLQKLLDQNGGFKKLTVLQLGIRMLDVLEYIHENEYVHGDIKAANLLLDFTNPDRVYLADYGLSYRYCPNGNHKQYQEDPRKGHNGTIEFTSLDAHKGVAPSRRSDVEILGYCMLHWLFGKLPWEAKLDDPVAVQTAKTNLLDELPESVLKWAPSGSSCSELVKYLMYVHNLAYDDKPDYQKLKKILNPDGVPLGPLEFSTKVQSVHVRTPAQQKVDSPKATRKPANEFPAKFPKKVHRETRARQREEQEDSQPTMLQSRPAAPENSRTRKIHEYSDIFSEMQSLQQTPSYMSFQGSYCKPYLDCTRRDPIRKPRSLPRYRHTPTGNLGVTDLESSPRFWPAIFQLTLSEETKADVYYYGITIFCLLIFVFLALYFL |
| 2624 | sp|Q54CK6|VTI1A\_DICDI | MDVFERTEQNFQHVCNSITRRIKQLPNYGGEKKKIAVREVENDIDEALKFISEMEKLAQNHPQRIKLQTKTKQYHSDIQKYKREVQLAQLQSSNQTNSNPWSNAPDDYQSQYDNQRQHLLQGSNMLDSTSDRLLRTHQISAQSEQIGQNILMDLGKQGEQIRGMRDKLHETDDQIKSARKIMTGIARRLATNKVILSIIILLLMGIIALIICLKWLR |
| 2625 | sp|B2GUT4|WNT11\_XENTR | MKIYFLLGIFLTFLLHTRICQGIKWLALAKTPLSLALNQSQHCKQLEGLVSSQMQLCRSNLELMQTIIHAAKEVKKTCIKAFTDMRWNCSSIELAPTFHQDLERGTRESAFVYALSAAAISHTIARACTTGDIPGCSCAPIPGESPGPGYRWGGCADNLNYGILMGSKFSDAPMKMKKSGSQANKLMHLHNSEVGRQVLKASLEMKCKCHGVSGSCSIKTCWRGLQELREIALDLKTKYLSATKVVHRPMGTRKQLVPKDIDIRPVQETEMIYLQSSPDYCLKNEKMGSHGTHERQCNKTSNGSDSCDLMCCGRGYNPYMDKVVERCHCKYHWCCYVTCKKCERTVERYVCK |
| 2626 | sp|Q0WVM4|Y2239\_ARATH | MVVMKLITMKIFSVLLLLCFFVTCSLSSEPRNPEVEALINIKNELHDPHGVFKNWDEFSVDPCSWTMISCSSDNLVIGLGAPSQSLSGTLSGSIGNLTNLRQVSLQNNNISGKIPPEICSLPKLQTLDLSNNRFSGEIPGSVNQLSNLQYLRLNNNSLSGPFPASLSQIPHLSFLDLSYNNLRGPVPKFPARTFNVAGNPLICKNSLPEICSGSISASPLSVSLRSSSGRRTNILAVALGVSLGFAVSVILSLGFIWYRKKQRRLTMLRISDKQEEGLLGLGNLRSFTFRELHVATDGFSSKSILGAGGFGNVYRGKFGDGTVVAVKRLKDVNGTSGNSQFRTELEMISLAVHRNLLRLIGYCASSSERLLVYPYMSNGSVASRLKAKPALDWNTRKKIAIGAARGLFYLHEQCDPKIIHRDVKAANILLDEYFEAVVGDFGLAKLLNHEDSHVTTAVRGTVGHIAPEYLSTGQSSEKTDVFGFGILLLELITGMRALEFGKSVSQKGAMLEWVRKLHKEMKVEELVDRELGTTYDRIEVGEMLQVALLCTQFLPAHRPKMSEVVQMLEGDGLAERWAASHDHSHFYHANMSYRTITSTDGNNQTKHLFGSSGFEDEDDNQALDSFAMELSGPR |
| 2627 | sp|Q28618|YBOX1\_RABIT | MSSEAETQQPPAAPPAAPALSAAETKPGTTGSGAGSGGPGGLTSAAPAGGDKKVIATKVLGTVKWFNVRNGYGFINRNDTKEDVFVHQTAIKKNNPRKYLRSVGDGETVEFDVVEGEKGAEAANVTGPGGVPVQGSKYAADRNHYRRYPRRRGPPRNYQQNYQNSESGEKNEGSESAPEGQAQQRRPYRRRRFPPYYMRRPYGRRPQYSNPPVQGEVMEGADNQGAGEQGRPVRQNMYRGYRPRFRRGPPRQRQPREDGNEEDKENQGDETQGQQPPPSRYRRNFNYRRRRPDNPKPQDGKETKAADPPAENSSAPEAEQGGAE |
| 2628 | sp|O22152|YAB1\_ARATH | MSMSSMSSPSSAVCSPDHFSPSDHLCYVQCNFCQTILAVNVPYTSLFKTVTVRCGCCTNLLSVNMRSYVLPASNQLQLQLGPHSYFNPQDILEELRDAPSNMNMMMMNQHPTMNDIPSFMDLHQQHEIPKAPPVNRPPEKRQRVPSAYNRFIKEEIQRIKAGNPDISHREAFSAAAKNWAHFPHIHFGLVPDNQPVKKTNMPQQEGEDNMVMKEGFYAPAAANVGVTPY |
| 2629 | sp|Q45VV3|YAP1\_DROME | MLTTMSASSNTNSLIEKEIDDEDMLSPIKSNNLVVRVNQDTDDNLQALFDSVLNPGDAKRPLQLPLRMRKLPNSFFTPPAPSHSRANSADSTYDAGSQSSINIGNKASIVQQPDGQSPIAAIPQLQIQPSPQHSRLAIHHSRARSSPASLQQNYNVRARSDAAAANNPNANPSSQQQPAGPTFPENSAQEFPSGAPASSAIDLDAMNTCMSQDIPMSMQTVHKKQRSYDVISPIQLNRQLGALPPGWEQAKTNDGQIYYLNHTTKSTQWEDPRIQYRQQQQILMAERIKQNDVLQTTKQTTTSTIANNLGPLPDGWEQAVTESGDLYFINHIDRTTSWNDPRMQSGLSVLDCPDNLVSSLQIEDNLCSNLFNDAQAIVNPPSSHKPDDLEWYKIN |
| 2630 | sp|Q6XR72|ZNT10\_HUMAN | MGRYSGKTCRLLFMLVLTVAFFVAELVSGYLGNSIALLSDSFNMLSDLISLCVGLSAGYIARRPTRGFSATYGYARAEVVGALSNAVFLTALCFTIFVEAVLRLARPERIDDPELVLIVGVLGLLVNVVGLLIFQDCAAWFACCLRGRSRRLQQRQQLAEGCVPGAFGGPQGAEDPRRAADPTAPGSDSAVTLRGTSVERKREKGATVFANVAGDSFNTQNEPEDMMKKEKKSEALNIRGVLLHVMGDALGSVVVVITAIIFYVLPLKSEDPCNWQCYIDPSLTVLMVIIILSSAFPLIKETAAILLQMVPKGVNMEELMSKLSAVPGISSVHEVHIWELVSGKIIATLHIKYPKDRGYQDASTKIREIFHHAGIHNVTIQFENVDLKEPLEQKDLLLLCNSPCISKGCAKQLCCPPGALPLAHVNGCAEHNGGPSLDTYGSDGLSRRDAREVAIEVSLDSCLSDHGQSLNKTQEDQCYVNRTHF |
| 2631 | sp|Q9BRI3|ZNT2\_HUMAN | MEAKEKQHLLDARPAIRSYTGSLWQEGAGWIPLPRPGLDLQAIELAAQSNHHCHAQKGPDSHCDPKKGKAQRQLYVASAICLLFMIGEVVEILGALVSVLSIWVVTGVLVYLAVERLISGDYEIDGGTMLITSGCAVAVNIIMGLTLHQSGHGHSHGTTNQQEENPSVRAAFIHVIGDFMQSMGVLVAAYILYFKPEYKYVDPICTFVFSILVLGTTLTILRDVILVLMEGTPKGVDFTAVRDLLLSVEGVEALHSLHIWALTVAQPVLSVHIAIAQNTDAQAVLKTASSRLQGKFHFHTVTIQIEDYSEDMKDCQACQGPSD |
| 2632 | sp|Q9JKN1|ZNT7\_MOUSE | MLPLSIKDDEYKPPKFNLFGKISGWFRSILSDKTSRNLFFFLCLNLSFAFVELLYGIWSNCLGLISDSFHMFFDSTAILAGLAASVISKWRDNDAFSYGYVRAEVLAGFVNGLFLIFTAFFIFSEGVERALAPPDVHHERLLLVSILGFVVNLVGIFVFNHGGHGHSHGSGHGHSHSLFNGALDHSHGHEDHCHSHEAKHGAAHSHDHDHAHGHGHLHSHDGPSFKATAGPSRQILQGVFLHILADTLGSIGVIASAIMMQNFGLMIADPICSILIAILIVVSVIPLLRESVGILMQRTPPSLENTLPQCYQRVQQLQGVYNLQEQHFWTLCSDVYVGTLKLVVAPDADARWILSQTHNIFTQAGVRQLYVQIDFAAM |
| 2633 | sp|P54479|ZUR\_BACSU | MNVQEALNLLKENGYKYTNKREDMLQLFADSDRYLTAKNVLSALNDDYPGLSFDTIYRNLSLYEELGILETTELSGEKLFRFKCSFTHHHHHFICLACGKTKEIESCPMDKLCDDLDGYQVSGHKFEIYGTCPDCTAENQENTTA |
| 2634 | sp|Q9P2Y4|ZN219\_HUMAN | MEGSRPRAPSGHLAPSPPAFDGELDLQRYSNGPAVSAGSLGMGAVSWSESRAGERRFPCPVCGKRFRFNSILALHLRAHPGAQAFQCPHCGHRAAQRALLRSHLRTHQPERPRSPAARLLLELEERALLREARLGRARSSGGMQATPATEGLARPQAPSSSAFRCPYCKGKFRTSAERERHLHILHRPWKCGLCSFGSSQEEELLHHSLTAHGAPERPLAATSAAPPPQPQPQPPPQPEPRSVPQPEPEPEPEREATPTPAPAAPEEPPAPPEFRCQVCGQSFTQSWFLKGHMRKHKASFDHACPVCGRCFKEPWFLKNHMKVHASKLGPLRAPGPASGPARAPQPPDLGLLAYEPLGPALLLAPAPTPAERREPPSLLGYLSLRAGEGRPNGEGAEPGPGRSFGGFRPLSSALPARARRHRAEEPEEEEEVVEAEEETWARGRSLGSLASLHPRPGEGPGHSASAAGAQARSTATQEENGLLVGGTRPEGGRGATGKDCPFCGKSFRSAHHLKVHLRVHTGERPYKCPHCDYAGTQSGSLKYHLQRHHREQRSGAGPGPPPEPPPPSQRGSAPQSGAKPSPQPATWVEGASSPRPPSSGAGPGSRRKPASPGRTLRNGRGGEAEPLDLSLRAGPGGEAGPGGALHRCLFCPFATGAPELMALHLQVHHSRRARGRRPPQADASPPYARVPSGETPPSPSQEGEEGSGLSRPGEAGLGGQER |
| 2635 | sp|Q04736|YES\_MOUSE | MGCIKSKENKSPAIKYTPENLTEPVSPSASHYGVEHATVAPTSSTKGASVNFNSLSMTPFGGSSGVTPFGGASSSFSVVSSSYPTGLTGGVTIFVALYDYEARTTEDLSFKKGERFQIINNTEGDWWEARSIATGKSGYIPSNYVVPADSIQAEEWYFGKMGRKDAERLLLNPGNQRGIFLVRESETTKGAYSLSIRDWDEVRGDNVKHYKIRKLDNGGYYITTRAQFDTLQKLVKHYTEHADGLCHKLTTVCPTVKPQTQGLAKDAWEIPRESLRLEVKLGQGCFGEVWMGTWNGTTKVAIKTLKPGTMMPEAFLQEAQIMKKLRHDKLVPLYAVVSEEPIYIVTEFMSKGSLLDFLKEGDGKYLKLPQLVDMAAQIADGMAYIERMNYIHRDLRAANILVGENLICKIADFGLARLIEDNEYTARQGAKFPIKWTAPEAALYGRFTIKSDVWSFGILQTELVTKGRVPYPGMVNREVLEQVERGYRMPCPQGCPESLHELMNLCWKKDPDERPTFEYIQSFLEDYFTATEPQYQPGENL |
| 2636 | sp|O88291|ZN326\_MOUSE | MDFEDDYVHSTCRGAYQDFNGMDRDYGPGSYGGLDRDYGHGSYGGQRSMDSYLNQSYGMDNHSGGGGGSRFGPYESYDSRSSLGGRDLYRSGYGFNEPEQTRFGGSYGGRFESSYRNSLDSFGGRNQGGSSWEAPYSRSKLRPGFMEDRGRENYSSYSSFSSPHMKPAPVGSRGRGTPAYPESTFGSRSYDAFGGPSTGRGRGRGHMGDFGSFHRPGIIVDYQNKPANVTIATARGIKRKMMQIFIKPGGAFIKKPKLAKPMDKMNLSKSPTKTDPKNEEEEKRRIEARREKQRRRREKNSEKYGDGYRMAFTCSFCKFRTFEEKDIELHLESSSHQETLDHIQKQTKFDKVVMEFLHECMVNKFKKASIRKQQTLNHPEAYKIIEKDIMEGVTADDHMMKVETVHCSACSVYIPALHSSVQLHLKSPDHSKGKQAYKEQIKRESVLTATSILNNPIVKARYERFVKGENPFEIQDHPQDQQIEGDEEDEEKIDEPIEEEEEEEEEEEEEGEEAGSVEEEGDVEGEEGTAEAAAAGEADAVGEAEGAGEAEEAEEEEEEEGTQEFAAQACATEQCEHRQM |
| 2637 | sp|P48832|ZP3\_FELCA | MGLSYGLFICFLLWAGTGLCYPPTTTEDKTHPSLPSSPSVVVECRHAWLVVNVSKNLFGTGRLVRPADLTLGPENCEPLISGDSDDTVRFEVELHKCGNSVQVTEDALVYSTFLLHNPRPMGNLSILRTNRAEVPIECRYPRHSNVSSEAILPTWVPFRTTMLSEEKLAFSLRLMEEDWGSEKQSPTFQLGDLAHLQAEVHTGRHIPLRLFVDYCVATLTPDQNASPHHTIVDFHGCLVDGLSDASSAFKAPRPRPETLQFTVDTFHFANDPRNMIYITCHLKVTPASRVPDQLNKACSFIKSSNRWFPVEGPADICNCCNKGSCGLQGRSWRLSHLDRPWHKMASRNRRHVTEEADITVGPLIFLGKAADRGVEGSTSPHTSVMVGIGLATVLSLTLATIVLGLARRHHTASRPMICPVSASQ |
| 2638 | sp|Q5FWF4|ZRAB3\_HUMAN | MPRVHNIKKSLTPHISCVTNESDNLLDFLPDRLRAKLLPFQKDGIIFALKRNGRCMVADEMGLGKTIQAIGITYFYKEEWPLLIVVPSSLRYPWTEEIEKWIPELSPEEINVIQNKTDVRRMSTSKVTVLGYGLLTADAKTLIDALNNQNFKVVIVDESHYMKSRNATRSRILLPIVQKARRAILLTGTPALGRPEELFMQIEALFPQKFGRWTDYAKRYCNAHIRYFGKRPQWDCRGASNLNELHQLLSDIMIRRLKTEVLTQLPPKVRQRIPFDLPSAAAKELNTSFEEWEKIMRTPNSGAMETVMGLITRMFKQTAIAKAGAVKDYIKMMLQNDSLKFLVFAHHLSMLQACTEAVIENKTRYIRIDGSVSSSERIHLVNQFQKDPDTRVAILSIQAAGQGLTFTAASHVVFAELYWDPGHIKQAEDRAHRIGQCSSVNIHYLIANGTLDTLMWGMLNRKAQVTGSTLNGRKEKIQAEEGDKEKWDFLQFAEAWTPNDSSEELRKEALFTHFEKEKQHDIRSFFVPQPKKRQLMTSCDESKRFREENTVVSSDPTKTAARDIIDYESDVEPETKRLKLAASEDHCSPSEETPSQSKQIRTPLVESVQEAKAQLTTPAFPVEGWQCSLCTYINNSELPYCEMCETPQGSAVMQIDSLNHIQDKNEKDDSQKDTSKKVQTISDCEKQALAQSEPGQLADSKEETPKIEKEDGLTSQPGNEQWKSSDTLPVYDTLMFCASRNTDRIHIYTKDGKQMSCNFIPLDIKLDLWEDLPASFQLKQYRSLILRFVREWSSLTAMKQRIIRKSGQLFCSPILALEEITKQQTKQNCTKRYITKEDVAVASMDKVKNVGGHVRLITKESRPRDPFTKKLLEDGACVPFLNPYTVQADLTVKPSTSKGYLQAVDNEGNPLCLRCQQPTCQTKQACKANSWDSRFCSLKCQEEFWIRSNNSYLRAKVFETEHGVCQLCNVNAQELFLRLRDAPKSQRKNLLYATWTSKLPLEQLNEMIRNPGEGHFWQVDHIKPVYGGGGQCSLDNLQTLCTVCHKERTARQAKERSQVRRQSLASKHGSDITRFLVKK |
| 2639 | sp|E9Q5K9|YTDC1\_MOUSE | MAADSREEKDGELNVLDDILTEVPEQDDELYNPESEQDKNEKKGSKRKSERMESTDTKRQKPSIHSRQLISKPLSSSVSNNKRIVSTKGKSVTEYKNEEYQRSERNKRLDADRKIRLSSSSSREPYKSQPEKTCLRKRDSERRAKSPTPDGSERIGLEVDRRASRSSQSSKEEVNSEDYGSDHETGSSGSSEQGNNTENEEEGGEEDVEEDEEVDEDAEDDEEVDEDAEEEEEEDEEEEEDEDEDEEEEEYEQDERDQKEEGNDYDTRSEASDSGSESVSFTDGSVRSGSGTDGSDEKKKERKRARGISPIVFDRSGSSASESYAGSEKKHEKLSSSVRAVRKDQTSKLKYVLQDARFFLIKSNNHENVSLAKAKGVWSTLPVNEKKLNLAFRSARSVILIFSVRESGKFQGFARLSSESHHGGSPIHWVLPAGMSAKMLGGVFKIDWICRRELPFTKSAHLTNPWNEHKPVKIGRDGQEIELECGTQLCLLFPPDESIDLYQLIHKMRHKRRMHSQPRSRGRPSRREPVRDVGRRRPEDYDIHNSRKKPRIDYPPEFHQRPGYVKDPRYQEVDSFTNLIPNRRFSGVRRDVFLNGSYNDYVREFHNMGPPPPWQGMPPYPGIEQPPHHPYYQHHAPPPQAHPPYSGHHPVPHEARYRDKRVHDYDMRVDDFLRRTQAVVSGRRSRPRERDRERERDRPRDNRRDRERDRGRDRERERERICDRDRDRGERGRYRR |
| 2640 | sp|Q96JM2|ZN462\_HUMAN | MEVLQCDGCDFRAPSYEDLKAHIQDVHTAFLQPTDVAEDNVNELRCGSVNASNQTEVEFSSIKDEFAIAEDLSGQNATSLGTGGYYGHSPGYYGQHIAANPKPTNKFFQCKFCVRYFRSKNLLIEHTRKVHGAQAEGSSSGPPVPGSLNYNIMMHEGFGKVFSCQFCTYKSPRRARIIKHQKMYHKNNLKETTAPPPAPAPMPDPVVPPVSLQDPCKELPAEVVERSILESMVKPLTKSRGNFCCEWCSYQTPRRERWCDHMMKKHRSMVKILSSLRQQQEGTNLPDVPNKSAPSPTSNSTYLTMNAASREIPNTTVSNFRGSMGNSIMRPNSSASKFSPMSYPQMKPKSPHNSGLVNLTERSRYGMTDMTNSSADLETNSMLNDSSSDEELNEIDSENGLSAMDHQTSGLSAEQLMGSDGNKLLETKGIPFRRFMNRFQCPFCPFLTMHRRSISRHIENIHLSGKTAVYKCDECPFTCKSSLKLGAHKQCHTGTTSDWDAVNSQSESISSSLNEGVVSYESSSINGRKSGVMLDPLQQQQPPQPPPPPPPPPPSQPQPLQQPQPPQLQPPHQVPPQPQTQPPPTQQPQPPTQAAPLHPYKCTMCNYSTTTLKGLRVHQQHKHSFCDNLPKFEGQPSSLPLENETDSHPSSSNTVKKSQTSILGLSSKNNFVAKASRKLANDFPLDLSPVKKRTRIDEIASNLQSKINQTKQQEDAVINVEDDEEEEEDNEVEIEVELDREEEPTEPIIEVPTSFSAQQIWVRDTSEPQKEPNFRNITHDYNATNGAEIELTLSEDEEDYYGSSTNLKDHQVSNTALLNTQTPIYGTEHNSENTDFGDSGRLYYCKHCDFNNKSARSVSTHYQRMHPYIKFSFRYILDPNDHSAVYRCLECYIDYTNFEDLQQHYGEHHPEAMNVLNFDHSDLIYRCRFCSYTSPNVRSLMPHYQRMHPTVKINNAMIFSSYVVEQQEGLNTESQTLREILNSAPKNMATSTPVARGGGLPATFNKNTPKTFTPECENQKDPLVNTVVVYDCDVCSFASPNMHSVLVHYQKKHPEEKASYFRIQKTMRMVSVDRGSALSQLSFEVGAPMSPKMSNMGSPPPPQPPPPDLSTELYYCKHCSYSNRSVVGVLVHYQKRHPEIKVTAKYIRQAPPTAAMMRGVEGPQGSPRPPAPIQQLNRSSSERDGPPVENEMFFCQHCDYGNRTVKGVLIHYQKKHRDFKANADVIRQHTATIRSLCDRNQKKPASCVLVSPSNLERDKTKLRALKCRQCSYTSPYFYALRKHIKKDHPALKATVTSIMRWAFLDGLIEAGYHCEWCIYSHTEPNGLLLHYQRRHPEHYVDYTYMATKLWAGPDPSPPSLTMPAEAKTYRCRDCVFEAVSIWDITNHYQAFHPWAMNGDESVLLDIIKEKDAVEKPILSSEELAGPVNCENSIPTPFPEQEAECPEDARLSPEKSLQLASANPAISSTPYQCTVCQSEYNNLHGLLTHYGKKHPGMKVKAADFAQDIDINPGAVYKCRHCPYINTRIHGVLTHYQKRHPSIKVTAEDFVHDVEQSADISQNDVEETSRIFKQGYGAYRCKLCPYTHGTLEKLKIHYEKYHNQPEFDVFSQSPPKLPVPLEPEMTTEVSPSQVSITEEEVGEEPVSTSHFSTSHLVSHTVFRCQLCKYFCSTRKGIARHYRIKHNNVRAQPEGKNNLFKCALCAYTNPIRKGLAAHYQKRHDIDAYYTHCLAASRTISDKPNKVIIPSPPKDDSPQLSEELRRAVEKKKCSLCSFQSFSKKGIVSHYMKRHPGVFPKKQHASKLGGYFTAVYADEHEKPTLMEEEERGNFEKAEVEGEAQEIEWLPFRCIKCFKLSFSTAELLCMHYTDHHSRDLKRDFIILGNGPRLQNSTYQCKHCDSKLQSTAELTSHLNIHNEEFQKRAKRQERRKQLLSKQKYADGAFADFKQERPFGHLEEVPKIKERKVVGYKCKFCVEVHPTLRAICNHLRKHVQYGNVPAVSAAVKGLRSHERSHLALAMFTREDKYSCQYCSFVSAFRHNLDRHMQTHHGHHKPFRCKLCSFKSSYNSRLKTHILKAHAGEHAYKCSWCSFSTMTISQLKEHSLKVHGKALTLPRPRIVSLLSSHSHHSSQKATPAEEVEDSNDSSYSEPPDVQQQLNHYQSAALARNNSRVSPVPLSGAAAGTEQKTEAVLHCEFCEFSSGYIQSIRRHYRDKHGGKKLFKCKDCSFYTGFKSAFTMHVEAGHSAVPEEGPKDLRCPLCLYHTKYKRNMIDHIVLHREERVVPIEVCRSKLSKYLQGVVFRCDKCTFTCSSDESLQQHIEKHNELKPYKCQLCYYETKHTEELDSHLRDEHKVSRNFELVGRVNLDQLEQMKEKMESSSSDDEDKEEEMNSKAEDRELMRFSDHGAALNTEKRFPCEFCGRAFSQGSEWERHVLRHGMALNDTKQVSREEIHPKEIMENSVKMPSIEEKEDDEAIGIDFSLKNETVAICVVTADKSLLENAEAKKE |
| 2641 | sp|P17023|ZNF19\_HUMAN | MAAMPLKAQYQEMVTFEDVAVHFTKTEWTGLSPAQRALYRSVMLENFGNLTALGYPVPKPALISLLERGDMAWGLEAQDDPPAERTKNVCKDVETNIDSESTLIQGISEERDGMMSHGQLKSVPQRTDFPETRNVEKHQDIPTVKNIQGKVPRIPCARKPFICEECGKSFSYFSYYARHQRIHTGEKPFECSECGKAFNGNSSLIRHQRIHTGERPYQCEECGRAFNDNANLIRHQRIHSGDRPYYCTECGNSFTSSSEFVIHQRIHTGEKPYECNECGKAFVGNSPLLRHQKIHTGEKPYECNECGKSFGRTSHLSQHQRIHTGEKPYSCKVCGQAFNFHTKLTRHQRIHSEEKPFDCVDCGKAFSAQEQLKRHLRIHTQESSYVCDECGKALTSKRNLHQHQRIHTGEKPYECSKYEKAFGTSSQLGHLEHVYSGEKPVLDICRFGLPEFFTPFYW |
| 2642 | sp|P17014|ZNF12\_HUMAN | MNKSLGPVSFKDVAVDFTQEEWQQLDPEQKITYRDVMLENYSNLVSVGYHIIKPDVISKLEQGEEPWIVEGEFLLQSYPDEVWQTDDLIERIQEEENKPSRQTVFIETLIEERGNVPGKTFDVETNPVPSRKIAYKNSLCDSCEKCLTSVSEYISSDGSYARMKADECSGCGKSLLHIKLEKTHPGDQAYEFNQNGEPYTLNEESLYQKIRILEKPFEYIECQKAFQKDTVFVNHMEEKPYKWNGSEIAFLQMSDLTVHQTSHMEMKPYECSECGKSFCKKSKFIIHQRTHTGEKPYECNQCGKSFCQKGTLTVHQRTHTGEKPYECNECGKNFYQKLHLIQHQRTHSGEKPYECSYCGKSFCQKTHLTQHQRTHSGERPYVCHDCGKTFSQKSALNDHQKIHTGVKLYKCSECGKCFCRKSTLTTHLRTHTGEKPYECNECGKFFSRLSYLTVHYRTHSGEKPYECNECGKTFYLNSALMRHQRVHTGEKPYECNECGKLFSQLSYLTIHHRTHSGVKPYECSECGKTFYQNSALCRHRRIHKGEKPYECYICGKFFSQMSYLTIHHRIHSGEKPYECSECGKTFCQNSALNRHQRTHTGEKAYECYECGKCFSQMSYLTIHHRIHSGEKPFECNECGKAFSRMSYLTVHYRTHSGEKPYECTECGKKFYHKSAFNSHQRIHRRGNMNVIDVGRLL |
| 2643 | sp|Q9VKD7|ZUC\_DROME | MLITQIIMKQIRDYPIVSTISIAVSTVLASEVIWKLVQCSRSKREKASRVHEVIIFNELGEICAAVHMRNSSMGSQKPQVSPCCNTHCSLRNVAKIVEQIDRAVYSIDLAIYTFTSLFLADSIKRALQRGVIIRIISDGEMVYSKGSQISMLAQLGVPVRVPITTNLMHNKFCIIDGFERVEEIRLLRKLKFMRPCYSIVISGSVNWTALGLGGNWENCIITADDKLTATFQAEFQRMWRAFAKTEGSQIQLK |
| 2644 | sp|P64636|YRFG\_ECOLI | MHINIAWQDVDTVLLDMDGTLLDLAFDNYFWQKLVPETWGAKNGVTPQEAMEYMRQQYHDVQHTLNWYCLDYWSEQLGLDICAMTTEMGPRAVLREDTIPFLEALKASGKQRILLTNAHPHNLAVKLEHTGLDAHLDLLLSTHTFGYPKEDQRLWHAVAEATGLKAERTLFIDDSEAILDAAAQFGIRYCLGVTNPDSGIAEKQYQRHPSLNDYRRLIPSLM |
| 2645 | sp|Q9JKD9|ZBT32\_MOUSE | MPQTPTRLVSPYGSDRLVQLAARLRPALCDTLITVGGLEFPAHSLVLAGASPRLGCRGRWALVEDISPSTFAQILTFVYGESIELQPGELGDLEEAAKALGVQALEEACQRAQKGKDEDELDPGLKRHQQSEDFMRGSERGLGSPGEKQKPEKDFRSNGREQEMSHKHKAPGERPEMAGATRMMSSEEVMRGIESHKGSEESLRGCPDPLSPPGSLLTSLIPRPWWAEVPRLGEGQSALWSILLWPSRYGAPFSHSTPITAAWQVRPQDQRIPLTLNHSKALWSQNQLASSSPTPGSFPQGTESLSPWQIETSGQGFTGTLATCVSQERTLNCPSHQHPPLPSPARSRPYSCSVCGKRFSLKHQMETHYRVHTGEKPFSCSLCPQRSRDFSAMTKHLRTHGAAPYRCPLCRAGCPSLASMQAHMRGHSPSRLPPGWTIRSTFLYSSSRPTRASSSPGSPTSSAAT |
| 2646 | sp|P25311|ZA2G\_HUMAN | MVRMVPVLLSLLLLLGPAVPQENQDGRYSLTYIYTGLSKHVEDVPAFQALGSLNDLQFFRYNSKDRKSQPMGLWRQVEGMEDWKQDSQLQKAREDIFMETLKDIVEYYNDSNGSHVLQGRFGCEIENNRSSGAFWKYYYDGKDYIEFNKEIPAWVPFDPAAQITKQKWEAEPVYVQRAKAYLEEECPATLRKYLKYSKNILDRQDPPSVVVTSHQAPGEKKKLKCLAYDFYPGKIDVHWTRAGEVQEPELRGDVLHNGNGTYQSWVVVAVPPQDTAPYSCHVQHSSLAQPLVVPWEAS |
| 2647 | sp|Q13105|ZBT17\_HUMAN | MDFPQHSQHVLEQLNQQRQLGLLCDCTFVVDGVHFKAHKAVLAACSEYFKMLFVDQKDVVHLDISNAAGLGQVLEFMYTAKLSLSPENVDDVLAVATFLQMQDIITACHALKSLAEPATSPGGNAEALATEGGDKRAKEEKVATSTLSRLEQAGRSTPIGPSRDLKEERGGQAQSAASGAEQTEKADAPREPPPVELKPDPTSGMAAAEAEAALSESSEQEMEVEPARKGEEEQKEQEEQEEEGAGPAEVKEEGSQLENGEAPEENENEESAGTDSGQELGSEARGLRSGTYGDRTESKAYGSVIHKCEDCGKEFTHTGNFKRHIRIHTGEKPFSCRECSKAFSDPAACKAHEKTHSPLKPYGCEECGKSYRLISLLNLHKKRHSGEARYRCEDCGKLFTTSGNLKRHQLVHSGEKPYQCDYCGRSFSDPTSKMRHLETHDTDKEHKCPHCDKKFNQVGNLKAHLKIHIADGPLKCRECGKQFTTSGNLKRHLRIHSGEKPYVCIHCQRQFADPGALQRHVRIHTGEKPCQCVMCGKAFTQASSLIAHVRQHTGEKPYVCERCGKRFVQSSQLANHIRHHDNIRPHKCSVCSKAFVNVGDLSKHIIIHTGEKPYLCDKCGRGFNRVDNLRSHVKTVHQGKAGIKILEPEEGSEVSVVTVDDMVTLATEALAATAVTQLTVVPVGAAVTADETEVLKAEISKAVKQVQEEDPNTHILYACDSCGDKFLDANSLAQHVRIHTAQALVMFQTDADFYQQYGPGGTWPAGQVLQAGELVFRPRDGAEGQPALAETSPTAPECPPPAE |
| 2648 | sp|Q8IUH5|ZDH17\_HUMAN | MQREEGFNTKMADGPDEYDTEAGCVPLLHPEEIKPQSHYNHGYGEPLGRKTHIDDYSTWDIVKATQYGIYERCRELVEAGYDVRQPDKENVTLLHWAAINNRIDLVKYYISKGAIVDQLGGDLNSTPLHWATRQGHLSMVVQLMKYGADPSLIDGEGCSCIHLAAQFGHTSIVAYLIAKGQDVDMMDQNGMTPLMWAAYRTHSVDPTRLLLTFNVSVNLGDKYHKNTALHWAVLAGNTTVISLLLEAGANVDAQNIKGESALDLAKQRKNVWMINHLQEARQAKGYDNPSFLRKLKADKEFRQKVMLGTPFLVIWLVGFIADLNIDSWLIKGLMYGGVWATVQFLSKSFFDHSMHSALPLGIYLATKFWMYVTWFFWFWNDLNFLFIHLPFLANSVALFYNFGKSWKSDPGIIKATEEQKKKTIVELAETGSLDLSIFCSTCLIRKPVRSKHCGVCNRCIAKFDHHCPWVGNCVGAGNHRYFMGYLFFLLFMICWMIYGCISYWGLHCETTYTKDGFWTYITQIATCSPWMFWMFLNSVFHFMWVAVLLMCQMYQISCLGITTNERMNARRYKHFKVTTTSIESPFNHGCVRNIIDFFEFRCCGLFRPVIVDWTRQYTIEYDQISGSGYQLV |
| 2649 | sp|O75934|SPF27\_HUMAN | MAGTGLVAGEVVVDALPYFDQGYEAPGVREAAAALVEEETRRYRPTKNYLSYLTAPDYSAFETDIMRNEFERLAARQPIELLSMKRYELPAPSSGQKNDITAWQECVNNSMAQLEHQAVRIENLELMSQHGCNAWKVYNENLVHMIEHAQKELQKLRKHIQDLNWQRKNMQLTAGSKLREMESNWVSLVSKNYEIERTIVQLENEIYQIKQQHGEANKENIRQDF |
| 2650 | sp|Q8K4V4|SNX27\_RAT | MADEDGEGIHPSTPHRNGGGGGGSGLHCAGNGGGGGGGPRVVRIVKSESGYGFNVRGQVSEGGQLRSINGELYAPLQHVSAVLPGGAADRAGVRKGDRILEVNGVNVEGATHKQVVDLIRAGEKELILTVLSVPPHEADNLDPSDDSLGQSFYDYTEKQAVPISVPTYKHVEQNGEKFVVYNVYMAGRQLCSKRYREFAILHQNLKREFANFTFPRLPGKWPFSLSEQQLDARRRGLEEYLEKVCSIRVIGESDIMQEFLSESDENYNGVSDVELRVALPDGATVTVRVKKNSTTDQVYQAIAAKVGMDSTTVNYFALFEVINHSFVRKLAPNEFPHKLYVQNYTSAVPGTCLTIRKWLFTTEEEVLLNDNDLAVTYFFHQAVDDVKKGYIKAEEKSYQLQKLYEQRKMVMYLNMLRTCEGYNEIIFPHCACDSRRKGHVITAISITHFKLHACTEEGQLENQVIAFEWDEMQRWDTDEEGMAFCFEYARGEKKPRWVKIFTPYFNYMHECFERVFCELKWRKENIFQMARSQQRDVAT |
| 2651 | sp|Q8HXQ1|SODC\_MACFA | MAMKAVCVLKGDSPVQGTINFEQKESNGPVKVWGSITGLTEGLHGFHVHQFGDNTQGCTSAGPHFNPLSRQHGGPKDEERHVGDLGNVTAGKDGVAKVSFEDSVISLSGDHSIIGRTLVVHEKADDLGKGGNEESKKTGNAGGRLACGVIGIAQ |
| 2652 | sp|Q8CI15|SPHK1\_MOUSE | MEPVECPRGLLPRPCRVLVLLNPQGGKGKALQLFQSRVQPFLEEAEITFKLILTERKNHARELVCAEELGHWDALAVMSGDGLMHEVVNGLMERPDWETAIQKPLCSLPGGSGNALAASVNHYAGYEQVTNEDLLINCTLLLCRRRLSPMNLLSLHTASGLRLYSVLSLSWGFVADVDLESEKYRRLGEIRFTVGTFFRLASLRIYQGQLAYLPVGTVASKRPASTLVQKGPVDTHLVPLEEPVPSHWTVVPEQDFVLVLVLLHTHLSSELFAAPMGRCEAGVMHLFYVRAGVSRAALLRLFLAMQKGKHMELDCPYLVHVPVVAFRLEPRSQRGVFSVDGELMVCEAVQGQVHPNYLWMVCGSRDAPSGRDSRRGPPPEEP |
| 2653 | sp|P46721|SO1A2\_HUMAN | MGETEKRIETHRIRCLSKLKMFLLAITCAFVSKTLSGSYMNSMLTQIERQFNIPTSLVGFINGSFEIGNLLLIIFVSYFGTKLHRPIMIGIGCVVMGLGCFLKSLPHFLMNQYEYESTVSVSGNLSSNSFLCMENGTQILRPTQDPSECTKEVKSLMWVYVLVGNIVRGMGETPILPLGISYIEDFAKFENSPLYIGLVETGAIIGPLIGLLLASFCANVYVDTGFVNTDDLIITPTDTRWVGAWWFGFLICAGVNVLTAIPFFFLPNTLPKEGLETNADIIKNENEDKQKEEVKKEKYGITKDFLPFMKSLSCNPIYMLFILVSVIQFNAFVNMISFMPKYLEQQYGISSSDAIFLMGIYNLPPICIGYIIGGLIMKKFKITVKQAAHIGCWLSLLEYLLYFLSFLMTCENSSVVGINTSYEGIPQDLYVENDIFADCNVDCNCPSKIWDPVCGNNGLSYLSACLAGCETSIGTGINMVFQNCSCIQTSGNSSAVLGLCDKGPDCSLMLQYFLILSAMSSFIYSLAAIPGYMVLLRCMKSEEKSLGVGLHTFCTRVFAGIPAPIYFGALMDSTCLHWGTLKCGESGACRIYDSTTFRYIYLGLPAALRGSSFVPALIILILLRKCHLPGENASSGTELIETKVKGKENECKDIYQKSTVLKDDELKTKL |
| 2654 | sp|Q6NW58|SPAST\_DANRE | MNSGHKARLRGGRACGPVSDGSARGNRLLFYTRSLSRVPEWLLRVLLLLLRWLFQPIRRAMAARAKECGPDGSEETGERIRNYHKQAFEFISVALQIDEDEKGDKQKAVQWYRKGIAELEKGIQIQVTGAGEKADRARKLQDKMITNLSMAEDRLKLLGNLLSQSPAESSSDDSFYSFSNGNLRPAPASGAVSKKKDTLTITNQTSLRPKNPPKSTPNASGLNCTPSAAQSSRTGPQNNQKGPTVKGKNNVKASTTATASPQRKRDMKNFKNVDSKLASLILNEIVDSGSVVRFDDIAGQDLAKQALQEIVILPALRPELFTGLRAPARGLLLFGPPGNGKTMLAKAVAMESNATFFNISAATLTSKYVGEGEKLVRALFAVARELQPSIIFIDEIDSLLCERREGEHDASRRLKTEFLIEFDGVQSGGDERVLVMGATNRPQELDEAVLRRFAKRIYVALPTEETRLKLLKNLLSKHRNPLSQKELSQLARLTDGYSGSDLTSLAKDAALGPIRELKPEQVRNMSAHEMRDIRISDFLESLKRIKRSVSPQTLDQYVRWNREYGDTTGV |
| 2655 | sp|P17947|SPI1\_HUMAN | MLQACKMEGFPLVPPPSEDLVPYDTDLYQRQTHEYYPYLSSDGESHSDHYWDFHPHHVHSEFESFAENNFTELQSVQPPQLQQLYRHMELEQMHVLDTPMVPPHPSLGHQVSYLPRMCLQYPSLSPAQPSSDEEEGERQSPPLEVSDGEADGLEPGPGLLPGETGSKKKIRLYQFLLDLLRSGDMKDSIWWVDKDKGTFQFSSKHKEALAHRWGIQKGNRKKMTYQKMARALRNYGKTGEVKKVKKKLTYQFSGEVLGRGGLAERRHPPH |
| 2656 | sp|Q3KNW5|SOAT\_HUMAN | MRANCSSSSACPANSSEEELPVGLEVHGNLELVFTVVSTVMMGLLMFSLGCSVEIRKLWSHIRRPWGIAVGLLCQFGLMPFTAYLLAISFSLKPVQAIAVLIMGCCPGGTISNIFTFWVDGDMDLSISMTTCSTVAALGMMPLCIYLYTWSWSLQQNLTIPYQNIGITLVCLTIPVAFGVYVNYRWPKQSKIILKIGAVVGGVLLLVVAVAGVVLAKGSWNSDITLLTISFIFPLIGHVTGFLLALFTHQSWQRCRTISLETGAQNIQMCITMLQLSFTAEHLVQMLSFPLAYGLFQLIDGFLIVAAYQTYKRRLKNKHGKKNSGCTEVCHTRKSTSSRETNAFLEVNEEGAITPGPPGPMDCHRALEPVGHITSCE |
| 2657 | sp|Q00372|SNF1\_CANGA | MENKEHHHHHHHHHHHHSNGSYVSNKVSSLADGSRVGNYQIVKTLGEGSFGKVKLAYHVTTGQKVALKIINKKVLAKSDMQGRIEREISYLRLLRHPHIIKLYDVIKSKDEIIMVIEYAGNELFDYIVQRNKMSEQEARRFFQQIISAVEYCHRHKIVHRDLKPENLLLDEHLNVKIADFGLSNIMTDGNFLKTSCGSPNYAAPEVISGKLYAGPEVDVWSCGVILYVMLCRRLPFDDESIPVLFKNISNGVYTLPKFLSPGASDLIKRMLIVNPLNRISIHEIMQDEWFKVDLAEYLVPQDLKQQEQFNKKSGNEENVEEIDDEMVVTLSKTMGYDKDEIYEALESSEDTPAYNEIRNAYILIKDNKSLIKDMKQDNNVTQELDTFLSQSPPTFQQNGDGMKASEDQKKKHSGRRLASSVTQQRTFHQPPFMDQSKEEDSTISILPTSLPQIHRANMLAQGLPAASKISPLVTKKSKTRWHFGIRSRSYPLDVMGEIYIALKNLGAEWAKPSEEDLWTIRVRWKYDSDESRLIEDGVKKIPNLMKIVIQLFQIETNNYLVDFKFDGWESTYGDSTISTNMSEDEMSTFSAYPFLHLTTKLIMELAVNSQGN |
| 2658 | sp|P33328|SNC2\_YEAST | MSSSVPYDPYVPPEESNSGANPNSQNKTAALRQEIDDTVGIMRDNINKVAERGERLTSIEDKADNLAISAQGFKRGANRVRKQMWWKDLKMRMCLFLVVIILLVVIIVPIVVHFS |
| 2659 | sp|O45539|SRC2\_CAEEL | MGSCIGKEDPPPGATSPVHTSSTLGRESLPSHPRIPSIGPIAASSSGNTIDKNQNISQSANFVALFQYDARTDDDLSFKKDDILEILNDTQGDWWFARHKATGRTGYIPSNYVAREKSIESQPWYFGKMRRIDAEKCLLHTLNEHGAFLVRDSESRQHDLSLSVRENDSVKHYRIRQLDHGGYFIARRRPFATLHDLIAHYQREADGLCVNLGAPCAKSEAPQTTTFTYDDQWEVDRRSVRLIRQIGAGQFGEVWEGRWNVNVPVAVKKLKAGTADPTDFLAEAQIMKKLRHPKLLSLYAVCTRDEPILIVTELMQENLLTFLQRRGRQCQMPQLVEISAQVAAGMAYLEEMNFIHRDLAARNILINNSLSVKIADFGLARILMKENEYEARTGARFPIKWTAPEAANYNRFTTKSDVWSFGILLTEIVTFGRLPYPGMTNAEVLQQVDAGYRMPCPAGCPVTLYDIMQQCWRSDPDKRPTFETLQWKLEDLFNLDSSEYKEASINF |
| 2660 | sp|P13432|SMR1\_RAT | MKSLYLIFGLWILLACFQSGEGVRGPRRQHNPRRQQDPSTLPHYLGLQPDPNGGQIGVTITIPLNLQPPRVLVNLPGFITGPPLVVQGTTEYQYQWQLTAPDPTPLSNPPTQLHSTEQANTKTDAKISNTTATTQNSTDIFEGGGK |
| 2661 | sp|Q9W0S7|SND1\_DROME | MATAANTATAAGAAKDAPPAPTKSLSGIVKQVLSGDTVVIRATKGAPPPEKQITFSHVLAPKLARRPGAGGDETKDEPWAWESREFLRKKLIGVEVTFTFDKPANSNREYGFVWIGKDKETGENVVESIVREGLVSVRREGRPTAEQQTLIELEDQARAAGRGKWSPTASAADKVRNIKWSHENPAHLVDIYGGNPVKAIIEHVRDGSTVRAFLLPDFHYITLMISGIRCPGVKLDADGKPDLSVKVPFADEARYYVETRLLQRDVEIRLESVNNSNFIGTILYPKGNIAESLLREGLAKCVDWSMAVMKTGTDKLRAAERFAKEKRLRQWQDYQAKTPAFNSKEKDFSGTVVEVFNGDAINVRLSNGQVKKVFFSSIRPPRDQRAVVGTDGEEIVKAPPRGKNYRPLYEIPHMFDAREFLRKKLINKKVQCNLDYISPPRENFPEKYCYTVSIGGQNVAEAMVAKGLATCVRYRQDDDQRSSAYDQLIAAEQQAIKGLKGLHAKKDNATLRVNDLTVDHSRIKVQYLPSWQRALRTEAIVEFVASGSRLRIFVPKDSCLVTFLLAGISCPRSSRPALNGVPAQEGEPFGDEALTFTRERVLQRDVSVHIDTTDKAGSSVIGWLWTDSGANLSVALVEEGLAEVHFSAEKSEYYRQLKIAEDRAKAAKKNIWTNYVEEVPKEKTVTEEEKEDKVVAERKVNYENVIVTEITETLTFFAQSVESGSKLESLMSKLHADFQSNPPIAGSYTPKRGDLVAAQFTLDNQWYRAKVERVQGSNATVLYIDYGNKETLPTNRLAALPPAFSSEKPYATEYALALVALPTDNEDKEEALRAFSEDVLNHKVQLNVELKVTGSPNLATLRDPTTKVDFGKQLVAEGLVLAEQRGERKLKELVDQYKAAQEAARVAHLAIWKYGDITQDDAPEFR |
| 2662 | sp|Q9W6S8|SMN1\_DANRE | MANGAEDVVFCRGTGQSDDSDIWDDTALIKAYDKAVASFKNALKGEDGATPQENDNPGKKRKNNKKNKSRKRCNAAPDKEWQVGDSCYAFWSEDGNLYTATITSVDQEKGTCVVFYTDYGNEEEQNLSDLLTEPPDMDEDALKTANVKETESSTEESDRSFTPQKSGHAKHKSKSNFPMGPPSWFPSFPPGPPPPPPHFKKMDGRRGEGPGPSFPGWPPMIPLGPPMIPPPPPMSPDFGEDDEALGSMLISWYMSGYHTGYYMGLRQGRKEAAASKKSHRK |
| 2663 | sp|Q6F2E7|SOX9\_XENTR | MNLLDPFMKMTEEQDKCMSGAPSPTMSEDSAGSPCPSGSGSDTENTRPQENTFPKGDPELKKETEDEKFPVCIREAVSQVLKGYDWTLVPMPVRVNGSSKSKPHVKRPMNAFMVWAQAARRKLADQYPHLHNAELSKTLGKLWRLLNEGEKRPFVEEAERLRIQHKKDHPDYKYQPRRRKSVKNGQSEQEDGAEQTHISPNAIFKALQADSPHSASSMSEVHSPGEHSGQSQGPPTPPTTPKTDVQPGKPDLKREGRPLQESGRQPPHIDFRDVDIGELSSEVISTIETFDVNEFDQYLPPNGHPGVGSTQAPYTGSYGINSTPSATPGAGPAWMSKQQQQQQQQPQPPQHSLSTINSEQSQSQQRTHIKTEQLSPSHYSDQQQQHSPQQLNYSSFNLQHYSSSYPTITRAQYDYTEHQGSNSYYSHASGQNSGLYSNFSYMNPSQRPMYTPIADTTGVPSIPQTHSPQHWEQPVYTQLTRP |
| 2664 | sp|P61753|SOX9\_MACMU | MNLLDPFMKMTDEQEKGLSGAPSPTMSEDSAGSPCPSGSGSDTENTRPQENTFPKGEPDLKKESEEDKFPVCIREAVSQVLKGYDWTLVPMPVRVNGSSKNKPHVKRPMNAFMVWAQAARRKLADQYPHLHNAELSKTLGKLWRLLNESEKRPFVEEAERLRVQHKKDHPDYKYQPRRRKSVKNGQAEAEEATEQTHISPNAIFKALQADSPHSSSGMSEVHSPGEHSGQSQGPPTPPTTPKTDVQPGKADLKREGRPLPEGGRQPPIDFRDVDIGELSSDVISNIETFDVNEFDQYLPPNGHPGVPATHGQVTYTGSYGISSTAATPASAGHVWMSKQQAPPPPPQQPPQAPPAPQAPPQPQAAPPQQPAAPPQQPQAHTLTTLSSEPGQSQRTHIKTEQLSPSHYSEQQQHSPQQIAYSPFNLPHYSPSYPPITRSQYDYTDHQNSSSYYSHAAGQGTGLYSTFTYMNPAQRPMYTPIADTSGVPSIPQTHSPQHWEQPVYTQLTRP |
| 2665 | sp|P00445|SODC\_YEAST | MVQAVAVLKGDAGVSGVVKFEQASESEPTTVSYEIAGNSPNAERGFHIHEFGDATNGCVSAGPHFNPFKKTHGAPTDEVRHVGDMGNVKTDENGVAKGSFKDSLIKLIGPTSVVGRSVVIHAGQDDLGKGDTEESLKTGNAGPRPACGVIGLTN |
| 2666 | sp|Q8IW75|SPA12\_HUMAN | MNPTLGLAIFLAVLLTVKGLLKPSFSPRNYKALSEVQGWKQRMAAKELARQNMDLGFKLLKKLAFYNPGRNIFLSPLSISTAFSMLCLGAQDSTLDEIKQGFNFRKMPEKDLHEGFHYIIHELTQKTQDLKLSIGNTLFIDQRLQPQRKFLEDAKNFYSAETILTNFQNLEMAQKQINDFISQKTHGKINNLIENIDPGTVMLLANYIFFRARWKHEFDPNVTKEEDFFLEKNSSVKVPMMFRSGIYQVGYDDKLSCTILEIPYQKNITAIFILPDEGKLKHLEKGLQVDTFSRWKTLLSRRVVDVSVPRLHMTGTFDLKKTLSYIGVSKIFEEHGDLTKIAPHRSLKVGEAVHKAELKMDERGTEGAAGTGAQTLPMETPLVVKIDKPYLLLIYSEKIPSVLFLGKIVNPIGK |
| 2667 | sp|Q04837|SSBP\_HUMAN | MFRRPVLQVLRQFVRHESETTTSLVLERSLNRVHLLGRVGQDPVLRQVEGKNPVTIFSLATNEMWRSGDSEVYQLGDVSQKTTWHRISVFRPGLRDVAYQYVKKGSRIYLEGKIDYGEYMDKNNVRRQATTIIADNIIFLSDQTKEKE |
| 2668 | sp|Q62407|SPEG\_MOUSE | MQKARGTRGEDAGTRAPPSPGVPPKRAKVGAGRGVLVTGDGAGAPVFLRPLKNAAVCAGSDVRLRVVVSGTPQPSLSWFRDGQLLPPPAPEPSCLWLRSCGAQDAGVYSCSAQNERGQASCEAVLTVLEVRDSETAEDDISDVPGTQRLELRDDRAFSTPTGGSDTLVGTSLDTPPTSVTGTSEEQVSWWGSGQTVLEQEAGSGGGTRPLPGSPRQAQTTGAGPRHLGVEPLVRASRANLVGASWGSEDSLSVASDLYGSAFSLYRGRALSIHVSIPPSGLHREEPDLQPQPASDALRPRPALPPPSKSALLPPPSPRVGKRALPGPSTQPPATPTSPHRRAQEPSLPEDITTTEEKRGKKPKSSGPSLAGTVESRPQTPLSEASGRLSALGRSPRLVRAGSRILDKLQFFEERRRSLERSDSPPAPLRPWVPLRKARSLEQPKSEGGAAWGTPEASQEELRSPRGSVAERRRLFQQKAASLDERTRQRSATSDLELRFAQELGRIRRSTSREELVRSHESLRATLQRAPSPREPGEPPLFSRPSTPKTSRAVSPAATQPPPPSGAGKSGDEPGRPRSRGPVGRTEPGEGPQQEIKRRDQFPLTRSRAIQECRSPVPPYTADPPESRTKAPSGRKREPPAQAVRFLPWATPGVEDSVLPQTLEKNRAGPEAEKRLRRGPEEDGPWGPWDRRGTRSQGKGRRARPTSPELESSDDSYVSAGEEPLEAPVFEIPLQNMVVAPGADVLLKCIITANPPPQVSWKKDGSMLHSEGRLLIRAEGERHTLLLREAQAADAGSYTATATNELGQATCASSLAVRPGGSTSPFSSPITSDEEYLSPPEEFPEPGETWPRTPTMKLSPSQDHDSSDSSSKAPPTFKVSLMDQSVREGQDVIMSIRVQGEPKPVVSWLRNRQPVRPDQRRFAEEAEGGLCRLRILAAERGDAGFYTCKAVNEYGARQCEARLEVRAHPESRSLAVLAPLQDVDVGAGEMALFECLVAGPADVEVDWLCRGRLLQPALLKCKMHFDGRKCKLLLTSVHEDDSGVYTCKLSTAKDELTCSARLTVRPSLAPLFTRLLEDVEVLEGRAARLDCKISGTPPPSVTWTHFGHPVNEGDNLRLRQDGGLHSLHIARVGSEDEGLYEVSATNTHGQAHCSAQLYVEEPRTAASGPSSKLEKMPSIPEEPEHGDLERLSIPDFLRPLQDLEVGLAKEAMLECQVTGLPYPTISWFHNGHRIQSSDDRRMTQYRDIHRLVFPAVGPQHAGVYKSVIANKLGKAACYAHLYVTDVVPGPPDGAPEVVAVTGRMVTLSWNPPRSLDMAIDPDSLTYTVQHQVLGSDQWTALVTGLREPAWAATGLKKGIQHIFRVLSSSGKSSSKPSAPSEPVQLLEHGPPLEEAPAVLDKQDIVYVVEGQPACVTVTFNHVEAQVVWRSCRGALLEARTGVYELSQPDDDQYCLRICRVSRRDLGPLTCSARNRHGTKACSVTLELAEAPRFESIMEDVEVGPGETARFAVVVEGKPLPDIMWYKDEVLLAESNHVSFVYEENECSLVLLSAGSQDGGVYTCTARNLAGEVSCKAELSVLSAQTAMEVEGVGEDEEHRGRRLSDYYDIHQEIGRGAFSYLRRVVERSSGLEFAAKFIPSQAKPKASARREARLLARLQHGCVLYFHEAFERRRGLVIVTELCTEELLERMARKPTVCESETRTYMRQVLEGICYLHQSHVLHLDVKPENLLVWDGAGGEEQVRICDFGNAQELTPGEPQYCQYGTPEFVAPEIVNQSPVSGVTDIWPVGVVAFLCLTGISPFVGENDRTTLMNIRNYNVAFEETTFLSLSREARGFLIKVLVQDRLRPTAEETLEHPWFKTEAKGAEVSTDHLKLFLSRRRWQRSQISYKCHLVLRPIPELLRAPPERVWVAMPRRQPPSGGLSSSSDSEEEELEELPSVPRPLQPEFSGSRVSLTDIPTEDEALGTPEAGAATPMDWQEQERTPSKDQEAPSPEALPSPGQESPDGPSPRRPELRRGSSAESALPRVGSREPGRSLHKAASVELPQRRSPSPGATRLTRGGLGEGEYAQRLQALRQRLLRGGPEDGKVSGLRGPLLESLGGRARDPRMARAASSEAAPHHQPPPESRGLQKSSSFSQGEAEPRGRHRRAGAPLEIPVARLGARRLQESPSLSALSETQPPSPARPSVPKLSITKSPEPSAVTSRDSPQPPEPQPVPEKVPEPKPEPVRAAKPAQPPLALQMPTQPLTPYAQIMQSLQLSSPTLSPQDPAVPPSEPKPHAAVFARVASPPPGVSEKRVPSARTPPVLAEKARVPTVPPRPGSSLSGSIENLESEAVFEAKFKRSRESPLSRGLRLLSRSRSEERGPFRGAEDDGIYRPSPAGTPLELVRRPERSRSVQDLRVAGEPGLVRRLSLSLSQKLRRTPPGQRHPAWESRSGDGESSEGGSSARASPVLAVRRRLSSTLERLSSRLQRSGSSEDSGGASGRSTPLFGRLRRATSEGESLRRLGVPHNQLGSQTGATTPSAESLGSEASGTSGSSAPGESRSRHRWGLSRLRKDKGLSQPNLSSSVQEDLGHQYVPSESDFPPVFHIKLKDQVLLEGEAATLLCLPAACPAPRISWMKDKQSLRSEPSVVIVSCKDGRQLLSIPRAGKRHAGLYECSATNVLGSITSSCTVAVARIPGKLAPPEVPQTYHDTALVVWKPGDGRAPCTYTLERRVDGESVWHPVSSGIPDCYYNVTQLPVGVTVRFRVACSNRAGQGPFSNPSEKVFIRGTPDSPAQPAAAPRDAPVTSGPTRAPPPDSPTSLAPTPALAPPASQASTLSPSTSSMSANQALSSLKAVGPPPATPPRKHRGLLATQQAEPSPPSIVVTPSEPRSFVPDTGTLTPTSSPQGVKPAPSSTSLYMVTSFVSAPPAPQAPAPEPPPEPTKVTVRSLSPAKEVVSSPTPESTTLRQGPPQKPYTFLEEKARGRFGVVRSCRENATGRTFVAKIVPYAAEGKRRVLQEYEVLRTLHHERLMSLHEAYITPRYLVLIAESCGNRELLCGLSDRFRYSEDDVATYVVQLLQGLDYLHGHHVLHLDIKPDNLLLAADNALKIVDFGSAQPYNPQALKPLGHRTGTLEFMAPEMVKGDPIGSATDIWGAGVLTYIMLSGYSPFYEPDPQETEARIVGGRFDAFQLYPNTSQSATLFLRKVLSVHPWSRPSLQDCLAHPWLQDAYLMKLRRQTLTFTTNRLKEFLGEQRRRRAEAATRHKVLLRSYPGSP |
| 2669 | sp|P63208|SKP1\_HUMAN | MPSIKLQSSDGEIFEVDVEIAKQSVTIKTMLEDLGMDDEGDDDPVPLPNVNAAILKKVIQWCTHHKDDPPPPEDDENKEKRTDDIPVWDQEFLKVDQGTLFELILAANYLDIKGLLDVTCKTVANMIKGKTPEEIRKTFNIKNDFTEEEEAQVRKENQWCEEK |
| 2670 | sp|Q9UHV2|SRTD1\_HUMAN | MLSKGLKRKREEEEEKEPLAVDSWWLDPGHTAVAQAPPAVASSSLFDLSVLKLHHSLQQSEPDLRHLVLVVNTLRRIQASMAPAAALPPVPSPPAAPSVADNLLASSDAALSASMASLLEDLSHIEGLSQAPQPLADEGPPGRSIGGAAPSLGALDLLGPATGCLLDDGLEGLFEDIDTSMYDNELWAPASEGLKPGPEDGPGKEEAPELDEAELDYLMDVLVGTQALERPPGPGR |
| 2671 | sp|P26686|SRR55\_DROME | MVGSRVYVGGLPYGVRERDLERFFKGYGRTRDILIKNGYGFVEFEDYRDADDAVYELNGKELLGERVVVEPARGTARGSNRDRYDDRYGGRRGGGGGRYNEKNKNSRSSSRYGPPLRTEYRLIVENLSSRVSWQDLKDYMRQAGEVTYADAHKQRRNEGVVEFASLSDMKTAIEKLDDTELNGRRIHLVEDRRGGRSGGGGGSGRGRSRSSSSRSRSRSRRRSRSRRSSHSRSKSRSRSKSRGGRSKSKSPVKSRSRSRSRSNKSRDVSKSKSKSHSRTRSRSPKRERDSRSRSRSVSKRESRSRSRSKSIHRDSRSRPPTVSFKSSFYKFTTMPFFCSDRSASAENKSRSRSRSRSASPKNGNASPDRNNESMDD |
| 2672 | sp|P97430|SLPI\_MOUSE | MKSCGLLPFTVLLALGILAPWTVEGGKNDAIKIGACPAKKPAQCLKLEKPQCRTDWECPGKQRCCQDACGSKCVNPVPIRKPVWRKPGRCVKTQARCMMLNPPNVCQRDGQCDGKYKCCEGICGKVCLPPM |
| 2673 | sp|Q9MYX0|SC6A4\_MACMU | METTPLNSQKQLSACKDGEDCQENGVLQKVVPTPGDKVESGQISNGYSAVPSPGAGDDTRHSIPAATTTLVAELHQGERETWGKKVDFLLSVIGYAVDLGNVWRFPYICYQNGGGAFLIPYTIMAIFGGIPLFYMELALGQYHRNGCISIWRKICPIFKGIGYAICIIAFYIASYYNTIMAWALYYLISSFTDQLPWTSCKNSWNTGNCTNYFSEDNITWTLHSTSPAEEFYTRHVLQIHRSKGLQDLGGISWQLALCIMLIFTVIYFSIWKGVKTSGKVVWVTATFPYIILSVLLVRGATLPGAWRGVLFYLKPNWQKLLETGVWIDAAAQIFFSLGPGFGVLLAFASYNKFNNNCYQDALVTSVVNCMTSFVSGFVIFTVLGYMAEMRNEDVSEVAKDAGPSLLFITYAEAIANMPASTFFAIIFFLMLITLGLDSTFAGLEGVITAVLDEFPHIWAKRREWFVLAVVITCFFGSLVTLTFGGAYVVKLLEEYATGPAVLTVALIEAVAVSWFYGITQFCRDVKEMLGFSPGWFWRICWVAISPLFLLFIICSFLMSPPQLRLFQYNYPHWSIILGYCIGTSSFVCIPTYIAYRLISTPGTFKERIIKSITPETPTEIPCGDVRLNAV |
| 2674 | sp|Q9FUA4|SPT\_ARATH | MISQREEREEKKQRVMGDKKLISSSSSSSVYDTRINHHLHHPPSSSDEISQFLRHIFDRSSPLPSYYSPATTTTTASLIGVHGSGDPHADNSRSLVSHHPPSDSVLMSKRVGDFSEVLIGGGSGSAAACFGFSGGGNNNNVQGNSSGTRVSSSSVGASGNETDEYDCESEEGGEAVVDEAPSSKSGPSSRSSSKRCRAAEVHNLSEKRRRSRINEKMKALQSLIPNSNKTDKASMLDEAIEYLKQLQLQVQMLTMRNGINLHPLCLPGTTLHPLQLSQIRPPEATNDPLLNHTNQFASTSNAPEMINTVASSYALEPSIRSHFGPFPLLTSPVEMSREGGLTHPRLNIGHSNANITGEQALFDGQPDLKDRIT |
| 2675 | sp|B7TB45|SPZ2\_DROME | MKAGRAFGCLFWALLYCVLYLDLVSGNSADDELMDFDFADSNDAAMEDWQLDDLEEAKKAEQAEKKLESNMLDFSVDLDEPEPEKQLPPFDWRERVLRNALAKALADEGLRQKFAEVLPILRMLSSQQRLALSALISAQMNAKKGHELKFEQVRMMFGNEKKLLLPIVFDIANLIKSSTRKYINLGSDLASSALYHTPINRREDDLTPEESQQDDQLGTIAVEVEPKKVSTEEVQLESLEDFFDEMGSEVLDPQMINEALTGDLHDNKTKTFKPENHGQRVRRSANEFVHKLTRSVPASVTEQQLLGGIAGRTIKLNTTAFQQPSSQEEEKMASSNGGQSYSEVEDLAFAGLNGTEIPLSADERLDLQRNSAEETEEPLPSPEELIAGPRYRLGKRPLPGQKSGSPIKRKRVTSSLRGRPKTAASSHKPVVTPPNKKCERFTSNMCIRTDDYPLEQIMGSIRRHKNAMSALLAEFYDKPNNNLEFSDDFDDFSLSKKRREDEGSAGGMCQSVVRYARPQKAKSASGEWKYIVNTGQHTQTLRLEKCSNPVESCSYLAQTYRSHCSQVYNYHRLLSWDKVRGLHVDIFKVPTCCSCQVDGYRQQFPPLSSIQAKDYSPQSPVINHSHNGYSTINEEDLDYAEESEEDELGLRYPSFNNRETNELYSSSNKVRVKLPGISSSVGPYLSPPDDDEDRYGGYKSSSSSSKKYYSQVSRRRPQHSEARLDLDLAPSETHSDQEPPPPQHHQHHHLQYHRPQEELPSAYDFHRPQVYQPEREQLPLVRDPALSPVSAPVLASPAPPLPMPPMPIKQVPSHHQAHHQQPHHHLHQSTGKVAANRDPASMHHQPPRRPTQQWLPGQRRPFRPSAPLSGSGISRRHYHNRRQSIQ |
| 2676 | sp|P38283|SLI15\_YEAST | MDWAIKAARKKTQRKPGSTRSIIETLDDLNNLTTDAHSEINQRLYESSEWLRNNVYMNTLKYEDKKMEESLISPENTHNKMDVEFPKMKGEYELSNSQNDAAKDVTKTPRNGLHNDKSITPKSLRRKEVTEGMNRFSIHDTNKSPVEPLNSVKVDANESEKSSPWSPYKVEKVLRESSKTSESPINTKRFDNQTWAAKEEMENEPILQALKKAESVKVKPPPNSGIARSQRRSNMFVPLPNKDPLIIQHIPPTKSSGSIPKVRTVKESPIAFKKKSTINSPAIRAVENSDTAGSTKASSVFDRLSSIPTKSFENKISRGNVGHKYSSSSIDLTGSPMKKVSQKFKSINSTDTDMQEALRDIFSVKNKITKNNSPKGKNSRKSSIPRFDKTSLKLTTHKKLAIIAEQKKKSKHSSDVHKTGSRPHSISPTKISVDSSSPSKEVKNYYQSPVRGYLRPTKASISPNKNKNLTTSQTPHRLKIKEKTLRKLSPNIADISKPESRKSKNYRLTNLQLLPPAEAERDDLKKKFDKRLSGIMRSQQEHHRRKQEKQKRMSHLEQDLKKQTSFSNDYKDIRLKESLAPFDNHVRDTINKNTAFSTDNILATINTVDHREIIGNVTPKIASVNDSLPEINTDSEDEASVTLAAWAKSPYLQEQLIRQQDINPQTIFGPIPPLHTDEIFPNPRLNRLKPRQIVPKRS |
| 2677 | sp|Q940H6|SRK2E\_ARATH | MDRPAVSGPMDLPIMHDSDRYELVKDIGSGNFGVARLMRDKQSNELVAVKYIERGEKIDENVKREIINHRSLRHPNIVRFKEVILTPTHLAIVMEYASGGELFERICNAGRFSEDEARFFFQQLISGVSYCHAMQVCHRDLKLENTLLDGSPAPRLKICDFGYSKSSVLHSQPKSTVGTPAYIAPEVLLKKEYDGKVADVWSCGVTLYVMLVGAYPFEDPEEPKNFRKTIHRILNVQYAIPDYVHISPECRHLISRIFVADPAKRISIPEIRNHEWFLKNLPADLMNDNTMTTQFDESDQPGQSIEEIMQIIAEATVPPAGTQNLNHYLTGSLDIDDDMEEDLESDLDDLDIDSSGEIVYAM |
| 2678 | sp|O46385|SVIL\_BOVIN | MKRKERIARRLEGIETDTQPILLQSCTGLVTHRLLEEDTPRYMRATDPASPHIGRSNEEEETSDSSLEKQTRSKQCTETSGIHADSPYSSGIMDTQSLESKAERIARYKAERRRQLAEKYGLTLDPEADSETPSRYSRSRKDPEAAEKRGVRSERSAESSRDAGSSYSRTELSGLRTCVAESKDYGLHRSDGVSDTEVLLNAENQRRGQEPSATGLARDLPLAGEVSSSFSFSGRDSALGEVPRSPKAVHSLPSPSPGQPASPSHSTSDLPLPAEARASIGKPKHEWFLQKDSEGDTPSLINWPSRVKVREKLVREESARSSPELTSESLTQRRHQTAPGHYLAFQSENSAFDRVSGKVASSARQPIRGYVQPAEPVHTITLVTSDTPESISEGSWVGPAPQTVTKPPPSKVLEGERRDTPVLHICESKAEDVLFSDALEKTRKTLAVLEDRGSGRSQEAPSGTEDLSQPAVGIVTAEPQKESESLAHPPMAQQQPTERMGRSEMVMYVQSEAVSQGHRKEVPTRKHRVLTRSLSDYTGPPQLQALKAKAPAPKRDAESQTSKAELELGLLDTKVSVAQLRNAFLESARASRKPELHSRVEGSSEGPGVERERGSRKPRRYFSPGENRKTSERFRTQPITSAERKESDRSTSNSEMPAAEDEEKVDERARLSVAAKRLLFREMEKSFDEKSVPKRRSRNAAVEQRLRRLQDRSHTQPVTTEEVVIAAEPTPASCSVATHPVMTRHPSPTVAKSPVQPARTLQASAHQKALARDQTNESKDSAEQGEPDSSTLSLAEKLALFNKLSQPVSKAISTRNRLDMRQRRMNARYQTQPVTLGEVEQVQSGKLMAFSPTINTSVSTVASTVPPMYAGNLRTKPLPDDSFGATEQKFASSLENSDSPVRSILKSQGWQPSVEGAGSKAMLREFEETERKGGLTGGDGGVTKYGSFEEAELSYPVLSRVREGDNHKEAIYALPRKGSLELAHPPIAQLGDDLKEFSTPKSTMQASPDWKERQLFEEKVDLENVTKRKFSLKAAEFGEPTSEQTGAAAGKPAAPTATPVSWKPQDPSEQPQEKRYQSPCAMFAAGEIKAPAVEGSLDSPSKTMSIKERLALLKKSGEEDWRNRLNRKQEYGKASITSSLHIQETEQSLKKKRVTESRESQMTIEERKHLITVREDAWKTRGKGAANDSTQFTVAGRMVKRGLASPTAITPVASPVSSKARGTTPVSRPLEDIEARPDMQLESDLKLDRLETFLRRLNNKVGGMQETVLTVTGKSVKEVMKPDDDETFAKFYRSVDSSLPRSPVELDEDFDVIFDPYAPRLTSSVAEHKRAVRPKRRVQASKNPLKMLAAREDLLQEYTEQRLNVAFVESKRMKVEKLSANSSFSEVTLAGLASKENFSNVSLRSVNLTEQNSNNSAVPYKKLMLLQVKGRRHVQTRLVEPRAPSLNSGDCFLLLSPHHCFLWVGEFANVIEKAKASELASLIQTKRELGCRATYIQTVEEGINTHTHAAKDFWKLLGGQASYQSAGDPKEDELYETAIIETNCIYRLMDDKLVPDDDYWGKIPKCSLLQSKEVLVFDFGSEVYVWHGKEVTLAQRKIAFQLAKHLWNGTFDYENCDINPLDPGECNPLIPRKGQGRPDWAIFGRLTEHNETILFKEKFLDWTELKRPNEKNASELAQHKDDARAEVKPYDVTRMVPVPQTTAGTVLDGVNVGRGYGLVEGDDRRQFEIASISVDVWHILEFDYSRLPKQSIGQFHEGDAYVVKWKFIVSTAVGSRQKGEHSVRVAGKEKCVYFFWQGRQSTVSEKGTSALMTVELDEERGAQVQVLQGKEPPCFLQCFQGGMVVHSGRREEEEENTQSEWRLYCVRGEVPVEGNLLEVACHCSSLRSRTSMVVLNVHKALIYLWHGCKAQAHTKEVGRTAANKIKDQCPLEAGLHSSSKVTIHECDEGSEPLGFWDALGRRDRKAYDCMLQDPGNFNFTPRLFILSSSSGDFSATEFMYPARDPSVVNSMPFLQEDLYSAPQPALFLVDNHHEVYLWQGWWPIENKITGSARIRWASDRKSAMETVLQYCRGKNLKKPPPKSYLIHAGLEPLTFTNMFPSWEHREDIAEITEMDTEVSNQITLVEDVLAKLCKTIYPLADLLARPLPEGVDPLKLEIYLTDEDFEFALDMTRDEYNALPAWKQVNLKKAKGLF |
| 2679 | sp|P42228|STAT4\_MOUSE | MSQWNQVQQLEIKFLEQVDQFYDDNFPMEIRHLLAQWIETQDWEVASNNETMATILLQNLLIQLDEQLGRVSKEKNLLLIHNLKRIRKVLQGKFHGNPMHVAVVISNCLREERRILAAANMPIQGPLEKSLQSSSVSERQRNVEHKVSAIKNSVQMTEQDTKYLEDLQDEFDYRYKTIQTMDQGDKNSILVNQEVLTLLQEMLNSLDFKRKEALSKMTQIVNETDLLMNSMLLEELQDWKKRQQIACIGGPLHNGLDQLQNCFTLLAESLFQLRQQLEKLQEQSTKMTYEGDPIPAQRAHLLERATFLIYNLFKNSFVVERQPCMPTHPQRPMVLKTLIQFTVKLRLLIKLPELNYQVKVKASIDKNVSTLSNRRFVLCGTHVKAMSSEESSNGSLSVEFRHLQPKEMKCSTGSKGNEGCHMVTEELHSITFETQICLYGLTINLETSSLPVVMISNVSQLPNAWASIIWYNVSTNDSQNLVFFNNPPSVTLGQLLEVMSWQFSSYVGRGLNSEQLNMLAEKLTVQSNYNDGHLTWAKFCKEHLPGKTFTFWTWLEAILDLIKKHILPLWIDGYIMGFVSKEKERLLLKDKMPGTFLLRFSESHLGGITFTWVDQSENGEVRFHSVEPYNKGRLSALAFADILRDYKVIMAENIPENPLKYLYPDIPKDKAFGKHYSSQPCEVSRPTERGDKGYVPSVFIPISTIRSDSTEPQSPSDLLPMSPSAYAVLRENLSPTTIETAMNSPYSAE |
| 2680 | sp|Q8L9J7|SWET1\_ARATH | MNIAHTIFGVFGNATALFLFLAPSITFKRIIKNKSTEQFSGIPYPMTLLNCLLSAWYGLPFVSKDNTLVSTINGTGAVIETVYVLIFLFYAPKKEKIKIFGIFSCVLAVFATVALVSLFALQGNGRKLFCGLAATVFSIIMYASPLSIMRLVVKTKSVEFMPFFLSLFVFLCGTSWFVYGLIGRDPFVAIPNGFGCALGTLQLILYFIYCGNKGEKSADAQKDEKSVEMKDDEKKQNVVNGKQDLQV |
| 2681 | sp|Q9UMZ2|SYNRG\_HUMAN | MALRPGAGSGGGGAAGAGAGSAGGGGFMFPVAGGIRPPQAGLMPMQQQGFPMVSVMQPNMQGIMGMNYSSQMSQGPIAMQAGIPMGPMPAAGMPYLGQAPFLGMRPPGPQYTPDMQKQFAEEQQKRFEQQQKLLEEERKRRQFEEQKQKLRLLSSVKPKTGEKSRDDALEAIKGNLDGFSRDAKMHPTPASHPKKPGPSLEEKFLVSCDISTSGQEQIKLNTSEVGHKALGPGSSKKYPSLMASNGVAVDGCVSGTTTAEAENTSDQNLSIEESGVGVFPSQDPAQPRMPPWIYNESLVPDAYKKILETTMTPTGIDTAKLYPILMSSGLPRETLGQIWALANRTTPGKLTKEELYTVLAMIAVTQRGVPAMSPDALNQFPAAPIPTLSGFSMTLPTPVSQPTVIPSGPAGSMPLSLGQPVMGINLVGPVGGAAAQASSGFIPTYPANQVVKPEEDDFQDFQDASKSGSLDDSFSDFQELPASSKTSNSQHGNSAPSLLMPLPGTKALPSMDKYAVFKGIAADKSSENTVPPGDPGDKYSAFRELEQTAENKPLGESFAEFRSAGTDDGFTDFKTADSVSPLEPPTKDKTFPPSFPSGTIQQKQQTQVKNPLNLADLDMFSSVNCSSEKPLSFSAVFSTSKSVSTPQSTGSAATMTALAATKTSSLADDFGEFSLFGEYSGLAPVGEQDDFADFMAFSNSSISSEQKPDDKYDALKEEASPVPLTSNVGSTVKGGQNSTAASTKYDVFRQLSLEGSGLGVEDLKDNTPSGKSDDDFADFHSSKFSSINSDKSLGEKAVAFRHTKEDSASVKSLDLPSIGGSSVGKEDSEDALSVQFDMKLADVGGDLKHVMSDSSLDLPTVSGQHPPAADIEDLKYAAFGSYSSNFAVSTLTSYDWSDRDDATQGRKLSPFVLSAGSGSPSATSILQKKETSFGSSENITMTSLSKVTTFVSEDALPETTFPALASFKDTIPQTSEQKEYENRDYKDFTKQDLPTAERSQEATCPSPASSGASQETPNECSDDFGEFQSEKPKISKFDFLVATSQSKMKSSEEMIKSELATFDLSVQGSHKRSLSLGDKEISRSSPSPALEQPFRDRSNTLNEKPALPVIRDKYKDLTGEVEENERYAYEWQRCLGSALNVIKKANDTLNGISSSSVCTEVIQSAQGMEYLLGVVEVYRVTKRVELGIKATAVCSEKLQQLLKDIDKVWNNLIGFMSLATLTPDENSLDFSSCMLRPGIKNAQELACGVCLLNVDSRSRKEEKPAEEHPKKAFNSETDSFKLAYGGHQYHASCANFWINCVEPKPPGLVLPDLL |
| 2682 | sp|P08970|SUHW\_DROME | MSASKEGKEKKGKLLGVENISPPKDKRPATRMKLLNDVGAGEDSEASTTTTTSRTPSNKQEKRGSVAGSRIKILNEEILGTPKTEKRGATKSTAPAASTVKILNEKKTPSATVTAVETTKIKTSPSKRKKMEHYVLQAVKSENTKADTTVTVVTEEDDTIDFILADDEEVVPGRIENNNGQEIVVTEDDEDLGEDGDEDGEDSSGKGNSSQTKIKEIVEHVCGKCYKTFRRVQSLKKHLEFCRYDSGYHLRKADMLKNLEKIEKDAVVMEKKDICFCCSESYDTFHLGHINCPDCPKSFKTQTSYERHIFITHSEFSDFPCSICNANLRSEALLALHEEQHKSRGKPYACKICGKDFTRSYHLKRHQKYSSCSSNETDTMSCKVCDRVFYRLDNLRSHLKQHLGTQVVKKPEYMCHTCKNCFYSLSTLNIHIRTHTGEKPFDCDLCDKKFSALVALKKHRRYHTGEKPYSCTVCNQAFAVKEVLNRHMKRHTGERPHKCDECGKSFIQATQLRTHSKTHIRPFPCEQCDEKFKTEKQLERHVKTHSRTKRPVFSCAECKRNFRTPALLKEHMDEGKHSPKQQRSSMRSAVKIMERTDCAICDKNFDSSDTLRRHIRTVHECDPDDIFGVEPHPSKRAKKDIESEEVVPVALNTSAGSLISSQTDGNGVVVREFLVDEGDGAAQTITLENETYTILPLDGAIEGEQLTDEAGVKPEAKKEEAQVSPVVKKEQRKSLAASLAAAIADNLEESCSEDDFSGEILTEEDIKLKENVGKLIDMLVDPPILKKYGWPNAPEETVLCKVIENCGHDLTKGGENYAELDYGSRMREYCKLLFTVVIHNDSIKSLLNNFPIDDVIEYVLGDEDQDEGGLDKDNESHSGDEEAVSVTGETKTNEIREKPEKKEVSAKSEKKEIVGKAVDKDNSEEVVRENKKKPVGEQEKA |
| 2683 | sp|Q8K330|SSH3\_MOUSE | MALVTVSRSPPASGHSTPVGPTQDRVVRRRGRLQRRQSFAVLRGAVLGLQDGGDSNVASEADSEPMEEPSGEEQPTEDQTDKGQGLQSPWKQVQKRHLHLMVELLRPQDDIRLAAQLEAARPPRLRYLLVVSTGEELSEEAILLGVDFPDSSSHSCTLGLVLPLWSDTQVYLDGDGGFSVTSGGQSRIFKPVSIQTMWATLQVLHQACEVALGSGLVPGGSALAWATYYQEKLNSDQGCLNEWMAMSDLESFRPPNAEPGQASEQEKMEQAILAELWQVLDTSDLDSVTSKEIRQALELRLGCPLQQYRDFIDNQMLLLMAQQDRASRIFPHLYLGSEWNAANLEELQKNRVSHILNMAREIDNFFPERFTYYNVRVWDEESAQLLPHWKETHRFIEDARAQGTRVLVHCKMGVSRSAATVLAYAMKQYGWDLEQALIHVQELRPIVRPNHGFLRQLRTYQGILTASRQSHVWEQKVGVVSPEEPLAPEVSTPLPPLPPEPGGSGEVMVMGLEGSQETPKEELGLRPRINLRGVMRSISLLEPSESESTPEAGGLPEVFSSDEEPLHPFSQLSRAKGGQRVRKGPWPALKSRQSVVALHSAALVASRTRAFQEQGQGQEQSEPGMSSTPRLRKVMRQASVDDSREEDKA |
| 2684 | sp|E7F4N7|STING\_DANRE | MSVMGEDALVPRARSRLPVMCAAGLGFLTLAVAWLLDSDKFSERAGIIAFGLMLERFIYCICLLAEELLFHSRQRYHGRMSEIFRACFRGSGILGMCAIFLMLMLGGVSFSVKQWSHFNLMCAGYMLLNSLGVLGPAPVEISEICEAKKMNVAHGLAWSFYIGYLKFLLPALEVNVREYSRRERLSSPRLHILLPLNARVPSKPEEEDTNVVFHENLPDLKLDRAGVRKRSYTNSVYKITHNNETFSCILEYATPLLTLYQMSQESSAGFGERERKQQVLLFYRTLSQILDNSLECRNRYRLILLNDEHTGDPHYLSRELFQNLKQQDGEIFMDPTNEVHPVPEEGPVGNCNGALQATFHEEPMSDEPTLMFSRPQSLRSEPVETTDYFNPSSAMKQN |
| 2685 | sp|Q99MN1|SYK\_MOUSE | MATLQESEVKVDGEQKLSKNELKRRLKAEKKLAEKEAKQKELSEKQLNQTASAPNHTADNGVGAEEETLDPNQYYKIRSQAVQQLKVTGEDPYPHKFHVDISLTQFIQEYSHLQPGDHLTDVTLKVAGRIHAKRASGGKLIFYDLRGEGVKLQVMANSRNYKSEEEFVHINNKLRRGDIIGVEGNPGKTKKGELSIIPQEITLLSPCLHMLPHLHFGLKDKETRYRQRYLDLILNDFVRQKFIVRSKIITYIRSFLDELGFLEIETPMMNIIPGGAVAKPFITYHNELDMNLYMRIAPELYHKMLVVGGIDRVYEIGRQFRNEGIDLTHNPEFTTCEFYMAYADYHDLMEITEKMLSGMVKSITGSYKITYHPDGPEGQAYEVDFTPPFRRISMVEELEKALGVKLPETSLFETEETRKILDDICVAKAVECPPPRTTARLLDKLVGEFLEVTCISPTFICDHPQIMSPLAKWHRSKEGLTERFELFVMKKEICNAYTELNDPVRQRQLFEEQAKAKAAGDDEAMFIDENFCTALEYGLPPTAGWGMGIDRLTMFLTDSNNIKEVLLFPAMKPEDKKETAATTETPESTEASPSV |
| 2686 | sp|P25623|SYP1\_YEAST | MTEQRTKYADSILTTKSPYEATETIRIRLSQVKLLNKDFYLLFKELANLKRNYAQQLRKIIAENEDITKILNAQMIESNVLTPQEMSAFRFNSLGELRNVWDTVIEELKSDLKSSTEYYNTLDQQVVRELKESVENNTSWRESKDLHSKLSKNAASIEHYSKNNENSSHLEEARRQWDQQSPYLFELFETIDYNRLDTLKNCMLRFQTSFSDYLLNTTKECETVMTKFLAFEPQSEIDRFAKDASQYNFQLSSSSKEVVPNNASPASATGARPVSVSNGAANTEREKKSPQKDKRKSAFGNIGHRLASASSSLTHNDLMNNEFSDSTNNSSLKSKKSSHTLRSKVGSIFGRNKTKNKRQQQSSSNSHIQASITETPNNSSTRVSSTATSSIYQKQRRPTYSSSKSNNWTPGEASDTPPLPPHATPKNVDAPVTADTPPAQTFTPSEVPPSTPQQSSPPTAKEPDSSNLPKTVPISISQPPLQPQSKTKPLPVEPASPSISLPTATVDNQPSGQVDSRPLHIRAPALPPSRKQNFIHNRDSQLYDSLPNHGSGATPTSSSLSSIPQERPVSTLSSQITGELRELNPQATGSSTSLVGQSLFQHSSLDTSQFGLNASIAEVLNASFKDGMLQNSQLIGEIALNYLPNSVMNSPLPIGINLRINNGAKFEKVILNQAFIERVAPEEFKVNPSFIDSRTLGAIKYSIKEPIAPIVIHPVWRFESHQASVVLTVKMSPSLPDEISQIVIEDLVVFVNIDGANATSALSKPQGSFSKEKKRITWRFKEPVVLTRNGEGQRLIARFITDGLAHESAKGVITKFTISETDNVALPHSGAGSGITLTCQELDENNPFGGEWLDVNTKRTLTTGNYHGLA |
| 2687 | sp|Q6ZMZ3|SYNE3\_HUMAN | MTQQPQDDFDRSVEDAQAWMKAVQDQLQVNDNTQGPRAALEARLWETEKICQLEPEGRVRVDLVLRMAEALLACCPGDQKPGILARLKDIKAQWEETVTYMTHCHSRIEWVWLHWSEYLLARDEFYRWFQKMMVTLEPHIELQLGLKEKQWQLSHAQVLLHNVDNQAVLLDRLLEEAASLFNRIGDPSVDEDAQKRMKAEYDAVKAKAQKRVDLLEQVAREHEEYQAGVDEFQLWLKAVVEKVNGCLGRNCKLPITQRLSTLQDIAKDFPRGEESLETLEEQSAGVIRNTSPLGAEKITGELEEMRKVLEKLRALWEEEEERLRGLLRSRGAWEQQIKQLEAELSEFRMVLQRLAQEGLQPAAKAGTEDELVAHWRRYSATRAALASEEPRVDRLQAQLKELIVFPHNLKPLSDSVIATIQEYQSLKVKSARLRNAAAVELWQHFQRPLQDLQLWKALAQRLLEVTASLPDLPSLHTFLPQIEAALMESSRLKELLTMLQLKKDLLIGIFGQERATALLEQVAGSMRDRDLLHNSLLQRKSKLQSLLAQHKDFGAAFEPLQRKLLDLQVRVQAEKGLQRDLPGKQAQLSRLQGLQEEGLDLGAQMEAARPLVQENPNHQHKMDQLSSDFQALQRSLEDLVDRCRQSVQEHCTFSHQLLELRQWIVVTTQKLEAHRGEAGPGDAESQEAEFERLVAEFPEKEAQLSLVEAQGWLVMEKSSPEGAAVVQEELRELAESWRALRLLEESLLSLIRNWHLQRMEVDSGKKMVFTNNIPKSGFLINPMDPIPRHRRRANLLQEEEGSHEDFSQLLRNFGQWLQVENSKLVRIIAMRTSTAEDLRTRKSKLQELEARVPEGQHLFENLLRLGPARGTSDELEDLRYQWMLYKSKLKDSGHLLTQSSPGEPTGFQKTRRWRGLGSLFRRACCVALPLQLLLLLFLLLLFLLPIREEDRSCTLANNFARSFTLMLRYNGPPPT |
| 2688 | sp|P30822|XPO1\_YEAST | MEGILDFSNDLDIALLDQVVSTFYQGSGVQQKQAQEILTKFQDNPDAWQKADQILQFSTNPQSKFIALSILDKLITRKWKLLPNDHRIGIRNFVVGMIISMCQDDEVFKTQKNLINKSDLTLVQILKQEWPQNWPEFIPELIGSSSSSVNVCENNMIVLKLLSEEVFDFSAEQMTQAKALHLKNSMSKEFEQIFKLCFQVLEQGSSSSLIVATLESLLRYLHWIPYRYIYETNILELLSTKFMTSPDTRAITLKCLTEVSNLKIPQDNDLIKRQTVLFFQNTLQQIATSVMPVTADLKATYANANGNDQSFLQDLAMFLTTYLARNRALLESDESLRELLLNAHQYLIQLSKIEERELFKTTLDYWHNLVADLFYEVQRLPATEMSPLIQLSVGSQAISTGSGALNPEYMKRFPLKKHIYEEICSQLRLVIIENMVRPEEVLVVENDEGEIVREFVKESDTIQLYKSEREVLVYLTHLNVIDTEEIMISKLARQIDGSEWSWHNINTLSWAIGSISGTMSEDTEKRFVVTVIKDLLDLTVKKRGKDNKAVVASDIMYVVGQYPRFLKAHWNFLRTVILKLFEFMHETHEGVQDMACDTFIKIVQKCKYHFVIQQPRESEPFIQTIIRDIQKTTADLQPQQVHTFYKACGIIISEERSVAERNRLLSDLMQLPNMAWDTIVEQSTANPTLLLDSETVKIIANIIKTNVAVCTSMGADFYPQLGHIYYNMLQLYRAVSSMISAQVAAEGLIATKTPKVRGLRTIKKEILKLVETYISKARNLDDVVKVLVEPLLNAVLEDYMNNVPDARDAEVLNCMTTVVEKVGHMIPQGVILILQSVFECTLDMINKDFTEYPEHRVEFYKLLKVINEKSFAAFLELPPAAFKLFVDAICWAFKHNNRDVEVNGLQIALDLVKNIERMGNVPFANEFHKNYFFIFVSETFFVLTDSDHKSGFSKQALLLMKLISLVYDNKISVPLYQEAEVPQGTSNQVYLSQYLANMLSNAFPHLTSEQIASFLSALTKQYKDLVVFKGTLRDFLVQIKEVGGDPTDYLFAEDKENALMEQNRLEREKAAKIGGLLKPSELDD |
| 2689 | sp|Q8L794|XK1\_ARATH | MLILRQFQISSFELFQSPKQTGFYSSSRSVPLPRTRFYSDFRVMSGNKGTNYEKLYLGMDFGTSGGRFTVIDEQGEIKAQGKREYPPFMKEESMGWASSWKATLFSLLEDIPVTVRSLVSSISLDGTSATTLILNSESGEVLCQPYLYNQSCPDALPEVKSIAPANHTVCSGTSTLCKLVSWWNTEVPNRESAVLLHQADWLLWLLHGRLGVSDYNNALKVGYDPESESYPSWLLGQPYSQLLPKVQAPGTSIGNLKESFTRQFGFPDDCIVCTGTTDSIAAFLAARATEPGKAVTSLGSTLAIKLLSTKRVDDARYGVYSHRLDDKWLVGGASNTGGAILRQLFSDEQLERLSQEINPMVGSPLDYYPLQSSGERFPIADPNLAPRLLPRPESDVEFLHGILESIARIEGKGYKLLKELGATEAEEVLTAGGGAKNDKWIKIRQRVLGLPVKKAVHTEASYGASLLALKGAKQNSGL |
| 2690 | sp|P12956|XRCC6\_HUMAN | MSGWESYYKTEGDEEAEEEQEENLEASGDYKYSGRDSLIFLVDASKAMFESQSEDELTPFDMSIQCIQSVYISKIISSDRDLLAVVFYGTEKDKNSVNFKNIYVLQELDNPGAKRILELDQFKGQQGQKRFQDMMGHGSDYSLSEVLWVCANLFSDVQFKMSHKRIMLFTNEDNPHGNDSAKASRARTKAGDLRDTGIFLDLMHLKKPGGFDISLFYRDIISIAEDEDLRVHFEESSKLEDLLRKVRAKETRKRALSRLKLKLNKDIVISVGIYNLVQKALKPPPIKLYRETNEPVKTKTRTFNTSTGGLLLPSDTKRSQIYGSRQIILEKEETEELKRFDDPGLMLMGFKPLVLLKKHHYLRPSLFVYPEESLVIGSSTLFSALLIKCLEKEVAALCRYTPRRNIPPYFVALVPQEEELDDQKIQVTPPGFQLVFLPFADDKRKMPFTEKIMATPEQVGKMKAIVEKLRFTYRSDSFENPVLQQHFRNLEALALDLMEPEQAVDLTLPKVEAMNKRLGSLVDEFKELVYPPDYNPEGKVTKRKHDNEGSGSKRPKVEYSEEELKTHISKGTLGKFTVPMLKEACRAYGLKSGLKKQELLEALTKHFQD |
| 2691 | sp|Q12768|WASC5\_HUMAN | MLDFLAENNLCGQAILRIVSCGNAIIAELLRLSEFIPAVFRLKDRADQQKYGDIIFDFSYFKGPELWESKLDAKPELQDLDEEFRENNIEIVTRFYLAFQSVHKYIVDLNRYLDDLNEGVYIQQTLETVLLNEDGKQLLCEALYLYGVMLLVIDQKIEGEVRERMLVSYYRYSAARSSADSNMDDICKLLRSTGYSSQPGAKRPSNYPESYFQRVPINESFISMVIGRLRSDDIYNQVSAYPLPEHRSTALANQAAMLYVILYFEPSILHTHQAKMREIVDKYFPDNWVISIYMGITVNLVDAWEPYKAAKTALNNTLDLSNVREQASRYATVSERVHAQVQQFLKEGYLREEMVLDNIPKLLNCLRDCNVAIRWLMLHTADSACDPNNKRLRQIKDQILTDSRYNPRILFQLLLDTAQFEFILKEMFKQMLSEKQTKWEHYKKEGSERMTELADVFSGVKPLTRVEKNENLQAWFREISKQILSLNYDDSTAAGRKTVQLIQALEEVQEFHQLESNLQVCQFLADTRKFLHQMIRTINIKEEVLITMQIVGDLSFAWQLIDSFTSIMQESIRVNPSMVTKLRATFLKLASALDLPLLRINQANSPDLLSVSQYYSGELVSYVRKVLQIIPESMFTSLLKIIKLQTHDIIEVPTRLDKDKLRDYAQLGPRYEVAKLTHAISIFTEGILMMKTTLVGIIKVDPKQLLEDGIRKELVKRVAFALHRGLIFNPRAKPSELMPKLKELGATMDGFHRSFEYIQDYVNIYGLKIWQEEVSRIINYNVEQECNNFLRTKIQDWQSMYQSTHIPIPKFTPVDESVTFIGRLCREILRITDPKMTCHIDQLNTWYDMKTHQEVTSSRLFSEIQTTLGTFGLNGLDRLLCFMIVKELQNFLSMFQKIILRDRTVQDTLKTLMNAVSPLKSIVANSNKIYFSAIAKTQKIWTAYLEAIMKVGQMQILRQQIANELNYSCRFDSKHLAAALENLNKALLADIEAHYQDPSLPYPKEDNTLLYEITAYLEAAGIHNPLNKIYITTKRLPYFPIVNFLFLIAQLPKLQYNKNLGMVCRKPTDPVDWPPLVLGLLTLLKQFHSRYTEQFLALIGQFICSTVEQCTSQKIPEIPADVVGALLFLEDYVRYTKLPRRVAEAHVPNFIFDEFRTVL |
| 2692 | sp|Q9VE86|WRNXO\_DROME | MEKYLTKMPIKSKANEVPKEEAGVKKETPKVARKATKKDTPKELKDKENAGDDNTPKQTKGRPGRPAAKRKNLDTPDVTEKLAMEEENPPKRRSSRLTRSTRSMAEDGSPSPEKEKPEKLPFIKYKGAIKYFTESQDIAASADDVLQWVEKQKDEVVPMAFDMEWPFSFQTGPGKSAVIQICVDEKCCYIYQLTNVKKLPAALVALINHPKVRLHGVNIKNDFRKLARDFPEVTAEPLIEKCVDLGLWCNEVCETGGRWSLERLTNFIAKKAMDKSKKVRMSKWHVIPLDENQLMYAAIDVYIGQVIYRELERREKVKIKNEEEFKEKNGDAAFKAMKALGETFLTKINEVTL |
| 2693 | sp|Q6QHD1|WRK71\_ORYSJ | MDPWISTQPSLSLDLRVGLPATAAVAMVKPKVLVEEDFFHQQPLKKDPEVAALEAELKRMGAENRQLSEMLAAVAAKYEALQSQFSDMVTASANNGGGGGNNPSSTSEGGSVSPSRKRKSESLDDSPPPPPPPHPHAAPHHMHVMPGAAAAGYADQTECTSGEPCKRIREECKPKISKLYVHADPSDLSLVVKDGYQWRKYGQKVTKDNPCPRAYFRCSFAPACPVKKKVQRSAEDNTILVATYEGEHNHGQPPPPLQSAAQNSDGSGKSAGKPPHAPAAAPPAPVVPHRQHEPVVVNGEQQAAAASEMIRRNLAEQMAMTLTRDPSFKAALVTALSGRILELSPTKD |
| 2694 | sp|O08816|WASL\_RAT | MSSGQQPPRRVTNVGSLLLTPQENESLFSFLGKKCVTMSSAVVQLYAADRNCMWSKKCSGVACLVKDNPQRSYFLRIFDIKDGKLLWEQELYNNFVYNSPRGYFHTFAGDTCQVALNFANEEEAKKFRKAVTDLLGRRQRKSEKRRDAPNGPNLPMATVDIKNPEITTNRFYSSQVNNISHTKEKKKGKAKKKRLTKADIGTPSNFQHIGHVGWDPNTGFDLNNLDPELKNLFDMCGISEAQLKDRETSKVIYDFIEKTGGVEAVKNELRRQAPPPPPPSRGGPPPPPPPPHSSGPPPPPARGRGAPPPPPSRAPTAAPPPPPPSRPGVVVPPPPPNRMYPPPPPALPSSAPSGPPPPPPLSMAGSTAPPPPPPPPPPPGPPPPPGLPSDGDHQVPASSGNKAALLDQIREGAQLKKVEQNSRPVSCSGRDALLDQIRQGIQLKSVSDGQESTPPTPAPTSGIVGALMEVMQKRSKAIHSSDEDEDDDDEEDFQDDDEWED |
| 2695 | sp|P47793|WNT4A\_DANRE | MSSEYLIRSLLMLFLALFSANASNWLYLAKLSSVGSISDEETCEKLRGLIQRQVQICKRNVEVMDAVRRGAQLAIDECQYQFRNRRWNCSTLESVPVFGKVVTQGTREAAFVYAISAASVAFAVTRACSSGELDKCGCDRNVHGVSPEGFQWSGCSDNIAYGVAFSQSFVDIRERSKGQSSNRALMNLHNNEAGRKAILNHMRVECKCHGVSGSCEVKTCWKAMPPFRKVGNVIKEKFDGATEVELRKVGTTKVLVPRNSQFKPHTDEDLVYLDPSPDFCEHDPRTPGIMGTAGRFCNKTSKAIDGCELMCCGRGFHTEEVEVVDRCSCKFHWCCYVKCKQCRKMVEMHTCR |
| 2696 | sp|Q06263|VTA1\_YEAST | MASNAARVVATAKDFDKVGLGIIGYYLQLYAVELILSEEDRSQEMTALATELLDTIEAFKKEIGGESEAEDSDKSLHVMNTLIHDQEKAKIYMLNFTMSLYNEKLKQLKDGPWDVMLKRSLWCCIDLFSCILHLWKENISETSTNSLQKRIKYCKIYLSKLAKGEIGSSDEKTLDYADFADDSEEIKDEDVDHQTSDLENNNNDKVEGLAPKDQTTSYEPVDEVPEFIDDADSVNEEEQTVDKNEDAITKDEQQVVKKEVDLTRPSAPSEPAAAEHKSYTKDELTKIMDRASKIEQIQKLAKYAISALNYEDLPTAKDELTKALDLLNSI |
| 2697 | sp|Q9Y3S1|WNK2\_HUMAN | MDGDGGRRDVPGTLMEPGRGAGPAGMAEPRAKAARPGPQRFLRRSVVESDQEEPPGLEAAEAPGPQPPQPLQRRVLLLCKTRRLIAERARGRPAAPAPAALVAQPGAPGAPADAGPEPVGTQEPGPDPIAAAVETAPAPDGGPREEAAATVRKEDEGAAEAKPEPGRTRRDEPEEEEDDEDDLKAVATSLDGRFLKFDIELGRGSFKTVYKGLDTETWVEVAWCELQDRKLTKLERQRFKEEAEMLKGLQHPNIVRFYDFWESSAKGKRCIVLVTELMTSGTLKTYLKRFKVMKPKVLRSWCRQILKGLLFLHTRTPPIIHRDLKCDNIFITGPTGSVKIGDLGLATLKRASFAKSVIGTPEFMAPEMYEEHYDESVDVYAFGMCMLEMATSEYPYSECQNAAQIYRKVTCGIKPASFEKVHDPEIKEIIGECICKNKEERYEIKDLLSHAFFAEDTGVRVELAEEDHGRKSTIALRLWVEDPKKLKGKPKDNGAIEFTFDLEKETPDEVAQEMIESGFFHESDVKIVAKSIRDRVALIQWRRERIWPALQPKEQQDVGSPDKARGPPVPLQVQVTYHAQAGQPGPPEPEEPEADQHLLPPTLPTSATSLASDSTFDSGQGSTVYSDSQSSQQSVMLGSLADAAPSPAQCVCSPPVSEGPVLPQSLPSLGAYQQPTAAPGLPVGSVPAPACPPSLQQHFPDPAMSFAPVLPPPSTPMPTGPGQPAPPGQQPPPLAQPTPLPQVLAPQPVVPLQPVPPHLPPYLAPASQVGAPAQLKPLQMPQAPLQPLAQVPPQMPPIPVVPPITPLAGIDGLPPALPDLPTATVPPVPPPQYFSPAVILPSLAAPLPPASPALPLQAVKLPHPPGAPLAMPCRTIVPNAPATIPLLAVAPPGVAALSIHSAVAQLPGQPVYPAAFPQMAPTDVPPSPHHTVQNMRATPPQPALPPQPTLPPQPVLPPQPTLPPQPVLPPQPTRPPQPVLPPQPMLPPQPVLPPQPALPVRPEPLQPHLPEQAAPAATPGSQILLGHPAPYAVDVAAQVPTVPVPPAAVLSPPLPEVLLPAAPELLPQFPSSLATVSASVQSVPTQTATLLPPANPPLPGGPGIASPCPTVQLTVEPVQEEQASQDKPPGLPQSCESYGGSDVTSGKELSDSCEGAFGGGRLEGRAARKHHRRSTRARSRQERASRPRLTILNVCNTGDKMVECQLETHNHKMVTFKFDLDGDAPDEIATYMVEHDFILQAERETFIEQMKDVMDKAEDMLSEDTDADRGSDPGTSPPHLSTCGLGTGEESRQSQANAPVYQQNVLHTGKRWFIICPVAEHPAPEAPESSPPLPLSSLPPEASQGPCRGLTLPCLPWRRAACGAVFLSLFSAESAQSKQPPDSAPYKDQLSSKEQPSFLASQQLLSQAGPSNPPGAPPAPLAPSSPPVTALPQDGAAPATSTMPEPASGTASQAGGPGTPQGLTSELETSQPLAETHEAPLAVQPLVVGLAPCTPAPEAASTRDASAPREPLPPPAPEPSPHSGTPQPALGQPAPLLPAAVGAVSLATSQLPSPPLGPTVPPQPPSALESDGEGPPPRVGFVDSTIKSLDEKLRTLLYQEHVPTSSASAGTPVEVGDRDFTLEPLRGDQPRSEVCGGDLALPPVPKEAVSGRVQLPQPLVEKSELAPTRGAVMEQGTSSSMTAESSPRSMLGYDRDGRQVASDSHVVPSVPQDVPAFVRPARVEPTDRDGGEAGESSAEPPPSDMGTVGGQASHPQTLGARALGSPRKRPEQQDVSSPAKTVGRFSVVSTQDEWTLASPHSLRYSAPPDVYLDEAPSSPDVKLAVRRAQTASSIEVGVGEPVSSDSGDEGPRARPPVQKQASLPVSGSVAGDFVKKATAFLQRPSRAGSLGPETPSRVGMKVPTISVTSFHSQSSYISSDNDSELEDADIKKELQSLREKHLKEISELQSQQKQEIEALYRRLGKPLPPNVGFFHTAPPTGRRRKTSKSKLKAGKLLNPLVRQLKVVASSTGHLADSSRGPPAKDPAQASVGLTADSTGLSGKAVQTQQPCSVRASLSSDICSGLASDGGGARGQGWTVYHPTSERVTYKSSSKPRARFLSGPVSVSIWSALKRLCLGKEHSSRSSTSSLAPGPEPGPQPALHVQAQVNNSNNKKGTFTDDLHKLVDEWTSKTVGAAQLKPTLNQLKQTQKLQDMEAQAGWAAPGEARAMTAPRAGVGMPRLPPAPGPLSTTVIPGAAPTLSVPTPDGALGTARRNQVWFGLRVPPTACCGHSTQPRGGQRVGSKTASFAASDPVRS |
| 2698 | sp|Q6AWC2|WWC2\_HUMAN | MPRRAGSGQLPLPRGWEEARDYDGKVFYIDHNTRRTSWIDPRDRLTKPLSFADCVGDELPWGWEAGFDPQIGVYYIDHINKTTQIEDPRKQWRGEQEKMLKDYLSVAQDALRTQKELYHVKEQRLALALDEYVRLNDAYKEKSSSHTSLFSGSSSSTKYDPDILKAEISTTRLRVKKLKRELSQMKQELLYKEQGFETLQQIDKKMSGGQSGYELSEAKAILTELKSIRKAISSGEKEKQDLMQSLAKLQERFHLDQNIGRSEPDLRCSPVNSHLCLSRQTLDAGSQTSISGDIGVRSRSNLAEKVRLSLQYEEAKRSMANLKIELSKLDSEAWPGALDIEKEKLMLINEKEELLKELQFVTPQKRTQDELERLEAERQRLEEELLSVRGTPSRALAERLRLEERRKELLQKLEETTKLTTYLHSQLKSLSASTLSMSSGSSLGSLASSRGSLNTSSRGSLNSLSSTELYYSSQSDQIDVDYQYKLDFLLQEKSGYIPSGPITTIHENEVVKSPSQPGQSGLCGVAAAATGHTPPLAEAPKSVASLSSRSSLSSLSPPGSPLVLEGTFPMSSSHDASLHQFTADFEDCELSSHFADISLIENQILLDSDSGGASQSLSEDKDLNECAREPLYEGTADVEKSLPKRRVIHLLGEKTTCVSAAVSDESVAGDSGVYEAFVKQPSEMEDVTYSEEDVAIVETAQVQIGLRYNAKSSSFMVIIAQLRNLHAFLIPHTSKVYFRVAVLPSSTDVSCLFRTKVHPPTESILFNDVFRVAISQTALQQKTLRVDLCSVSKHRREECLAGTQISLADLPFSSEVFTLWYNLLPSKQMPCKKNEENEDSVFQPNQPLVDSIDLDAVSALLARTSAELLAVEQELAQEEEEESGQEEPRGPDGDWLTMLREASDEIVAEKEAEVKLPEDSSCTEDLSSCTSVPEMNEDGNRKESNCAKDLRSQPPTRIPTLVDKETNTDEAANDNMAVRPKERSSLSSRQHPFVRSSVIVRSQTFSPGERNQYICRLNRSDSDSSTLAKKSLFVRNSTERRSLRVKRTVCQSVLRRTTQECPVRTSLDLELDLQASLTRQSRLNDELQALRDLRQKLEELKAQGETDLPPGVLEDERFQRLLKQAEKQAEQSKEEQKQGLNAEKLMRQVSKDVCRLREQSQKVPRQVQSFREKIAYFTRAKISIPSLPADDV |
| 2699 | sp|Q9A9Z2|XYLD\_CAUVC | MRSALSNRTPRRFRSRDWFDNPDHIDMTALYLERFMNYGITPEELRSGKPIIGIAQTGSDISPCNRIHLDLVQRVRDGIRDAGGIPMEFPVHPIFENCRRPTAALDRNLSYLGLVETLHGYPIDAVVLTTGCDKTTPAGIMAATTVNIPAIVLSGGPMLDGWHENELVGSGTVIWRSRRKLAAGEITEEEFIDRAASSAPSAGHCNTMGTASTMNAVAEALGLSLTGCAAIPAPYRERGQMAYKTGQRIVDLAYDDVKPLDILTKQAFENAIALVAAAGGSTNAQPHIVAMARHAGVEITADDWRAAYDIPLIVNMQPAGKYLGERFHRAGGAPAVLWELLQQGRLHGDVLTVTGKTMSENLQGRETSDREVIFPYHEPLAEKAGFLVLKGNLFDFAIMKSSVIGEEFRKRYLSQPGQEGVFEARAIVFDGSDDYHKRINDPALEIDERCILVIRGAGPIGWPGSAEVVNMQPPDHLLKKGIMSLPTLGDGRQSGTADSPSILNASPESAIGGGLSWLRTGDTIRIDLNTGRCDALVDEATIAARKQDGIPAVPATMTPWQEIYRAHASQLDTGGVLEFAVKYQDLAAKLPRHNH |
| 2700 | sp|P31489|YADA1\_YEREN | MTKDFKISVSAALISALFSSPYAFADDYDGIPNLTAVQISPNADPALGLEYPVRPPVPGAGGLNASAKGIHSIAIGATAEAAKGAAVAVGAGSIATGVNSVAIGPLSKALGDSAVTYGAASTAQKDGVAIGARASTSDTGVAVGFNSKADAKNSVAIGHSSHVAANHGYSIAIGDRSKTDRENSVSIGHESLNRQLTHLAAGTKDTDAVNVAQLKKEIEKTQENTNKRSAELLANANAYADNKSSSVLGIANNYTDSKSAETLENARKEAFAQSKDVLNMAKAHSNSVARTTLETAEEHANSVARTTLETAEEHANKKSAEALASANVYADSKSSHTLKTANSYTDVTVSNSTKKAIRESNQYTDHKFRQLDNRLDKLDTRVDKGLASSAALNSLFQPYGVGKVNFTAGVGGYRSSQALAIGSGYRVNENVALKAGVAYAGSSDVMYNASFNIEW |
| 2701 | sp|Q9JKB3|YBOX3\_MOUSE | MSEAGEATTGGTTLPQAAADAPAAAPPDPAPKSPAASGAPQAPAPAALLAGSPGGDAAPGPAPASSAPAGGEDAEKKVLATKVLGTVKWFNVRNGYGFINRNDTKEDVFVHQTAIKKNNPRKYLRSVGDGETVEFDVVEGEKGAEAANVTGPDGVPVEGSRYAADRRRYRRGYYGRRRGPPRNYAGEEEEEGSGSSEGFEPPAADGQFSGARNQLRRPQYRPPYRQRRFPPYHVGQTFDRRSRVFPHPNRMQAGEIGEMKDGVPEGTQLQAHRNPTYRPRFRRGPARPRPAPAIGEAEDKENQQAANGPNQPSARRGFRRPYNYRRRSRPLNAVSQDGKETKAGEAPTENPAPATEQSSAE |
| 2702 | sp|P76318|YEDK\_ECOLI | MCGRFAQSQTREDYLALLAEDIERDIPYDPEPIGRYNVAPGTKVLLLSERDEHLHLDPVFWGYAPGWWDKPPLINARVETAATSRMFKPLWQHGRAICFADGWFEWKKEGDKKQPFFIYRADGQPIFMAAIGSTPFERGDEAEGFLIVTAAADQGLVDIHDRRPLVLSPEAAREWMRQEISGKEASEIAASGCVPANQFSWHPVSRAVGNVKNQGAELIQPV |
| 2703 | sp|P25714|YIDC\_ECOLI | MDSQRNLLVIALLFVSFMIWQAWEQDKNPQPQAQQTTQTTTTAAGSAADQGVPASGQGKLISVKTDVLDLTINTRGGDVEQALLPAYPKELNSTQPFQLLETSPQFIYQAQSGLTGRDGPDNPANGPRPLYNVEKDAYVLAEGQNELQVPMTYTDAAGNTFTKTFVLKRGDYAVNVNYNVQNAGEKPLEISSFGQLKQSITLPPHLDTGSSNFALHTFRGAAYSTPDEKYEKYKFDTIADNENLNISSKGGWVAMLQQYFATAWIPHNDGTNNFYTANLGNGIAAIGYKSQPVLVQPGQTGAMNSTLWVGPEIQDKMAAVAPHLDLTVDYGWLWFISQPLFKLLKWIHSFVGNWGFSIIIITFIVRGIMYPLTKAQYTSMAKMRMLQPKIQAMRERLGDDKQRISQEMMALYKAEKVNPLGGCFPLLIQMPIFLALYYMLMGSVELRQAPFALWIHDLSAQDPYYILPILMGVTMFFIQKMSPTTVTDPMQQKIMTFMPVIFTVFFLWFPSGLVLYYIVSNLVTIIQQQLIYRGLEKRGLHSREKKKS |
| 2704 | sp|Q9BW85|YJU2\_HUMAN | MSERKVLNKYYPPDFDPSKIPKLKLPKDRQYVVRLMAPFNMRCKTCGEYIYKGKKFNARKETVQNEVYLGLPIFRFYIKCTRCLAEITFKTDPENTDYTMEHGATRNFQAEKLLEEEEKRVQKEREDEELNNPMKVLENRTKDSKLEMEVLENLQELKDLNQRQAHVDFEAMLRQHRLSEEERRRQQQEEDEQETAALLEEARKRRLLEDSDSEDEAAPSPLQPALRPNPTAILDEAPKPKRKVEVWEQSVGSLGSRPPLSRLVVVKKAKADPDCSNGQPQAAPTPGAPQNRKEANPTPLTPGASSLSQLGAYLDSDDSNGSN |
| 2705 | sp|Q92393|YO12B\_YEAST | MESQQLSNYPHISHGSACASVTSKEVHTNQDPLDVSASKIQEYDKASTKANSQQTTTPASSAVPENPHHASPQPASVPPPQNGPYPQQCMMTQNQANPSGWSFYGHPSMIPYTPYQMSPMYFPPGPQSQFPQYPSSVGTPLSTPSPESGNTFTDSSSADSDMTSTKKYVRPPPMLTSPNDFPNWVKTYIKFLQNSNLGGIIPTVNGKPVRPITDDELTFLYNTFQIFAPSQFLPTWVKDILSVDYTDIMKILSKSIEKMQSDTQEANDIVTLANLQYNGSTPADAFETKVTNIIDRLNNNGIHINNKVACQLIMRGLSGEYKFLRYTRHRHLNMTVAELFLDIHAIYEEQQGSRNSKPNYRRNPSDEKNDSRSYTNTTKPKVIARNPQKTNNSKSKTARAHNVSTSNNSPSTDNDSISKSTTEPIQLNNKHDLHLGQKLTESTVNHTNHSDDELPGHLLLDSGASRTLIRSAHHIHSASSNPDINVVDAQKRNIPINAIGDLQFHFQDNTKTSIKVLHTPNIAYDLLSLNELAAVDITACFTKNVLERSDGTVLAPIVKYGDFYWVSKKYLLPSNISVPTINNVHTSESTRKYPYPFIHRMLAHANAQTIRYSLKNNTITYFNESDVDWSSAIDYQCPDCLIGKSTKHRHIKGSRLKYQNSYEPFQYLHTDIFGPVHNLPKSAPSYFISFTDETTKFRWVYPLHDRREDSILDVFTTILAFIKNQFQASVLVIQMDRGSEYTNRTLHKFLEKNGITPCYTTTADSRAHGVAERLNRTLLDDCRTQLQCSGLPNHLWFSAIEFSTIVRNSLASPKSKKSARQHAGLAGLDISTLLPFGQPVIVNDHNPNSKIHPRGIPGYALHPSRNSYGYIIYLPSLKKTVDTTNYVILQGKESRLDQFNYDALTFDEDLNRLTASYHSFIASNEIQESNDLNIESDHDFQSDIELHPEQPRNVLSKAVSPTDSTPPSTHTEDSKRVSKTNIRAPREVDPNISESNILPSKKRSSTPQISNIESTGSGGMHKLNVPLLAPMSQSNTHESSHASKSKDFRHSDSYSENETNHTNVPISSTGGTNNKTVPQISDQETEKRIIHRSPSIDASPPENNSSHNIVPIKTPTTVSEQNTEESIIADLPLPDLPPESPTEFPDPFKELPPINSRQTNSSLGGIGDSNAYTTINSKKRSLEDNETEIKVSRDTWNTKNMRSLEPPRSKKRIHLIAAVKAVKSIKPIRTTLRYDEAITYNKDIKEKEKYIEAYHKEVNQLLKMKTWDTDKYYDRKEIDPKRVINSMFIFNRKRDGTHKARFVARGDIQHPDTYDSGMQSNTVHHYALMTSLSLALDNNYYITQLDISSAYLYADIKEELYIRPPPHLGMNDKLIRLKKSLYGLKQSGANWYETIKSYLIKQCGMEEVRGWSCVFKNSQVTICLFVDDMILFSKDLNSNKRIIAKLKMQYDTKIINLGESDDEIQYDILGLEIKYQRGKYMKLGMENSLTEKIPKLNVPLNPNGRKLGAPGQPGLYINQQELELEEDDYKMKVHEMQKLIGLASYVGYKFRFDLLYYINTLAQHILFPSKQVLDMTYELIQFIWNTRDKQLIWHKSKPVKPTNKLVVISDASYGNQPYYKSQIGNIYLLNGKVIGGKSTKASLTCTSTTEAEIHAISESVPLLNNLSYLIQELDKKPITKGLLTDSKSTISIIISNNEEKFRNRFFGTKAMRLRDEVSGNHLHVCYIETKKNIADVMTKPLPIKTFKLLTNKWIH |
| 2706 | sp|P9WN85|ZUR\_MYCTU | MSAAGVRSTRQRAAISTLLETLDDFRSAQELHDELRRRGENIGLTTVYRTLQSMASSGLVDTLHTDTGESVYRRCSEHHHHHLVCRSCGSTIEVGDHEVEAWAAEVATKHGFSDVSHTIEIFGTCSDCRS |
| 2707 | sp|Q8IYH5|ZZZ3\_HUMAN | MAASRSTRVTRSTVGLNGLDESFCGRTLRNRSIAHPEEISSNSQVRSRSPKKRPEPVPIQKGNNNGRTTDLKQQSTRESWVSPRKRGLSSSEKDNIERQAIENCERRQTEPVSPVLKRIKRCLRSEAPNSSEEDSPIKSDKESVEQRSTVVDNDADFQGTKRACRCLILDDCEKREIKKVNVSEEGPLNSAVVEEITGYLAVNGVDDSDSAVINCDDCQPDGNTKQNSIGSYVLQEKSVAENGDTDTQTSMFLDSRKEDSYIDHKVPCTDSQVQVKLEDHKIVTACLPVEHVNQLTTEPATGPFSETQSSLRDSEEEVDVVGDSSASKEQCKENTNNELDTSLESMPASGEPEPSPVLDCVSAQMMSLSEPQEHRYTLRTSPRRAAPTRGSPTKNSSPYRENGQFEENNLSPNETNATVSDNVSQSPTNPGEISQNEKGICCDSQNNGSEGVSKPPSEARLNIGHLPSAKESASQHITEEEDDDPDVYYFESDHVALKHNKDYQRLLQTIAVLEAQRSQAVQDLESLGRHQREALKNPIGFVEKLQKKADIGLPYPQRVVQLPEIVWDQYTHSLGNFEREFKNRKRHTRRVKLVFDKVGLPARPKSPLDPKKDGESLSYSMLPLSDGPEGSSSRPQMIRGRLCDDTKPETFNQLWTVEEQKKLEQLLIKYPPEEVESRRWQKIADELGNRTAKQVASRVQKYFIKLTKAGIPVPGRTPNLYIYSKKSSTSRRQHPLNKHLFKPSTFMTSHEPPVYMDEDDDRSCFHSHMNTAVEDASDDESIPIMYRNLPEYKELLQFKKLKKQKLQQMQAESGFVQHVGFKCDNCGIEPIQGVRWHCQDCPPEMSLDFCDSCSDCLHETDIHKEDHQLEPIYRSETFLDRDYCVSQGTSYNYLDPNYFPANR |
| 2708 | sp|Q9NWS9|ZN446\_HUMAN | MPSPLGPPCLPVMDPETTLEEPETARLRFRGFCYQEVAGPREALARLRELCCQWLQPEAHSKEQMLEMLVLEQFLGTLPPEIQAWVRGQRPGSPEEAAALVEGLQHDPGQLLGWITAHVLKQEVLPAAQKTEEPLGSPHPSGTVESPGEGPQDTRIEGSVQLSCSVKEEPNVDGQEVAPSSPPLAAQSPEGNHGHQEPASTSFHPPRIQEEWGLLDRSQKELYWDAMLEKYGTVVSLGLPPHQPEAQAQSELGMLLTGTGVCRSLRSGNESEGPPGCPEAQPPQGPGPAAWEGLSGAATPAPTVRPGTPPVPTQPTPAETRLEPAATPRKPYTCEQCGRGFDWKSVFVIHHRTHTSGPGVQSPGLATGESTEKPPQGEVAFPHHPRRSLTGPRSYPCEECGCSFSWKSQLVIHRKSHTGQRRHFCSDCGRAFDWKSQLVIHRKGHRPEVP |
| 2709 | sp|Q6S9Z5|ZN474\_HUMAN | MERGKKKRISNKLQQTFHHSKEPTFLINQAGLLSSDSYSSLSPETESVNPGENIKTDTQKKRPGTVILSKLSSRRIISESQLSPPVIPARRPGFRVCYICGREFGSQSIAIHEPQCLQKWHIENSKLPKHLRRPEPSKPQSLSSSGSYSLQATNEAAFQSAQAQLLPCESCGRTFLPDHLLVHHRSCKPKGEGPRAPHSNSSDHLTGLKKACSGTPARPRTVICYICGKEFGTLSLPIHEPKCLEKWKMENDRLPVELHQPLPQKPQPLPNAQSSQAGPNQAQLVFCPHCSRIFTSDRLLVHQRSCKTHPYGPKYQNLNLGSKGGLKEYTNSKQQRNRAAPSVTDKVIHATQDALGEPGGALCL |
| 2710 | sp|Q9HA38|ZMAT3\_HUMAN | MILLQHAVLPPPKQPSPSPPMSVATRSTGTLQLPPQKPFGQEASLPLAGEEELSKGGEQDCALEELCKPLYCKLCNVTLNSAQQAQAHYQGKNHGKKLRNYYAANSCPPPARMSNVVEPAATPVVPVPPQMGSFKPGGRVILATENDYCKLCDASFSSPAVAQAHYQGKNHAKRLRLAEAQSNSFSESSELGQRRARKEGNEFKMMPNRRNMYTVQNNSAGPYFNPRSRQRIPRDLAMCVTPSGQFYCSMCNVGAGEEMEFRQHLESKQHKSKVSEQRYRNEMENLGYV |
| 2711 | sp|O64722|ZHD3\_ARATH | MEIASQEDPIPINTSYGNSGGGHGNMNHHHHANSAPSSLNITTSNPLLVSSNSNGLGKNHDHSHHHHVGYNIMVTNIKKEKPVVIKYKECLKNHAATMGGNAIDGCGEFMPSGEEGSIEALTCSVCNCHRNFHRRETEGEEKTFFSPYLNHHQPPPQQRKLMFHHKMIKSPLPQQMIMPIGVTTAGSNSESEDLMEEEGGGSLTFRQPPPPPSPYSYGHNQKKRFRTKFTQEQKEKMISFAERVGWKIQRQEESVVQQLCQEIGIRRRVLKVWMHNNKQNLSKKSNNVSNNVDLSAGNNDITENLASTNP |
| 2712 | sp|Q8WV99|ZFN2B\_HUMAN | MEFPDLGAHCSEPSCQRLDFLPLKCDACSGIFCADHVAYAQHHCGSAYQKDIQVPVCPLCNVPVPVARGEPPDRAVGEHIDRDCRSDPAQQKRKIFTNKCERAGCRQREMMKLTCERCSRNFCIKHRHPLDHDCSGEGHPTSRAGLAAISRAQAVASTSTVPSPSQTMPSCTSPSRATTRSPSWTAPPVIALQNGLSEDEALQRALEMSLAETKPQVPSCQEEEDLALAQALSASEAEYQRQQAQSRSSKPSNCSLC |
| 2713 | sp|Q9UQR1|ZN148\_HUMAN | MNIDDKLEGLFLKCGGIDEMQSSRTMVVMGGVSGQSTVSGELQDSVLQDRSMPHQEILAADEVLQESEMRQQDMISHDELMVHEETVKNDEEQMETHERLPQGLQYALNVPISVKQEITFTDVSEQLMRDKKQIREPVDLQKKKKRKQRSPAKILTINEDGSLGLKTPKSHVCEHCNAAFRTNYHLQRHVFIHTGEKPFQCSQCDMRFIQKYLLQRHEKIHTGEKPFRCDECGMRFIQKYHMERHKRTHSGEKPYQCEYCLQYFSRTDRVLKHKRMCHENHDKKLNRCAIKGGLLTSEEDSGFSTSPKDNSLPKKKRQKTEKKSSGMDKESALDKSDLKKDKNDYLPLYSSSTKVKDEYMVAEYAVEMPHSSVGGSHLEDASGEIHPPKLVLKKINSKRSLKQPLEQNQTISPLSTYEESKVSKYAFELVDKQALLDSEGNADIDQVDNLQEGPSKPVHSSTNYDDAMQFLKKKRYLQAASNNSREYALNVGTIASQPSVTQAAVASVIDESTTASILESQALNVEIKSNHDKNVIPDEVLQTLLDHYSHKANGQHEISFSVADTEVTSSISINSSEVPEVTPSENVGSSSQASSSDKANMLQEYSKFLQQALDRTSQNDAYLNSPSLNFVTDNQTLPNQPAFSSIDKQVYATMPINSFRSGMNSPLRTTPDKSHFGLIVGDSQHSFPFSGDETNHASATSTQDFLDQVTSQKKAEAQPVHQAYQMSSFEQPFRAPYHGSRAGIATQFSTANGQVNLRGPGTSAEFSEFPLVNVNDNRAGMTSSPDATTGQTFG |
| 2714 | sp|Q5SXM2|SNPC4\_HUMAN | MDVDAEREKITQEIKELERILDPGSSGSHVEISESSLESDSEADSLPSEDLDPADPPISEEERWGEASNDEDDPKDKTLPEDPETCLQLNMVYQEVIQEKLAEANLLLAQNREQQEELMRDLAGSKGTKVKDGKSLPPSTYMGHFMKPYFKDKVTGVGPPANEDTREKAAQGIKAFEELLVTKWKNWEKALLRKSVVSDRLQRLLQPKLLKLEYLHQKQSKVSSELERQALEKQGREAEKEIQDINQLPEEALLGNRLDSHDWEKISNINFEGSRSAEEIRKFWQNSEHPSINKQEWSREEEERLQAIAAAHGHLEWQKIAEELGTSRSAFQCLQKFQQHNKALKRKEWTEEEDRMLTQLVQEMRVGSHIPYRRIVYYMEGRDSMQLIYRWTKSLDPGLKKGYWAPEEDAKLLQAVAKYGEQDWFKIREEVPGRSDAQCRDRYLRRLHFSLKKGRWNLKEEEQLIELIEKYGVGHWAKIASELPHRSGSQCLSKWKIMMGKKQGLRRRRRRARHSVRWSSTSSSGSSSGSSGGSSSSSSSSSEEDEPEQAQAGEGDRALLSPQYMVPDMDLWVPARQSTSQPWRGGAGAWLGGPAASLSPPKGSSASQGGSKEASTTAAAPGEETSPVQVPARAHGPVPRSAQASHSADTRPAGAEKQALEGGRRLLTVPVETVLRVLRANTAARSCTQKEQLRQPPLPTSSPGVSSGDSVARSHVQWLRHRATQSGQRRWRHALHRRLLNRRLLLAVTPWVGDVVVPCTQASQRPAVVQTQADGLREQLQQARLASTPVFTLFTQLFHIDTAGCLEVVRERKALPPRLPQAGARDPPVHLLQASSSAQSTPGHLFPNVPAQEASKSASHKGSRRLASSRVERTLPQASLLASTGPRPKPKTVSELLQEKRLQEARAREATRGPVVLPSQLLVSSSVILQPPLPHTPHGRPAPGPTVLNVPLSGPGAPAAAKPGTSGSWQEAGTSAKDKRLSTMQALPLAPVFSEAEGTAPAASQAPALGPGQISVSCPESGLGQSQAPAASRKQGLPEAPPFLPAAPSPTPLPVQPLSLTHIGGPHVATSVPLPVTWVLTAQGLLPVPVPAVVSLPRPAGTPGPAGLLATLLPPLTETRAAQGPRAPALSSSWQPPANMNREPEPSCRTDTPAPPTHALSQSPAEADGSVAFVPGEAQVAREIPEPRTSSHADPPEAEPPWSGRLPAFGGVIPATEPRGTPGSPSGTQEPRGPLGLEKLPLRQPGPEKGALDLEKPPLPQPGPEKGALDLGLLSQEGEAATQQWLGGQRGVRVPLLGSRLPYQPPALCSLRALSGLLLHKKALEHKATSLVVGGEAERPAGALQASLGLVRGQLQDNPAYLLLRARFLAAFTLPALLATLAPQGVRTTLSVPSRVGSESEDEDLLSELELADRDGQPGCTTATCPIQGAPDSGKCSASSCLDTSNDPDDLDVLRTRHARHTRKRRRLV |
| 2715 | sp|Q01083|SPITZ\_DROME | MHSTMSVQHGLVALVLIGCLAHPWHVEACSSRTVPKPRSSISSSMSGTALPPTQAPVTSSTTMRTTTTTTPRPNITFPTYKCPETFDAWYCLNDAHCFAVKIADLPVYSCECAIGFMGQRCEYKEIDNTYLPKRPRPMLEKASIASGAMCALVFMLFVCLAFYLRFEQRAAKKAYELEQELQQEYDDDDGQCECCRNRCCPDGQEPVILERKLPYHMRLEHALMSFAIRRSNKL |
| 2716 | sp|Q8HXP9|SODC\_SAPAP | MAMKAVCVLKGDGPVQGTINFEQKESNGPVKVWGSITGLAEGLHGFHVHQFGDNTQGCTSAGPHFNPLSRKHGGPEDEERHVGDLGNVTAGKDGVAKVSIEDSVISLSGDHSIIGRTLVVHEKADDLGKGGNEESTKTGNAGSRLACGVIGIAQ |
| 2717 | sp|O88816|SNAT\_MOUSE | MLNINSLKPEALHLPLGTSEFLGCQRRHTLPASEFRCLTPEDATSAFEIEREAFISVSGTCPLYLDEIRHFLTLCPELSLGWFEEGCLVAFIIGSLWDKERLTQESLTLHRPGGRTAHLHVLAVHRTFRQQGKGSVLLWRYLHHLGSQPAVRRAVLMCEDALVPFYEKFGFQAVGPCAITVGSLTFTELQCSLRCHAFLRRNSGC |
| 2718 | sp|Q5JFG9|SPEE\_THEKO | MGYNEQERAFIEWYPRGYGVGFKVKRRLFETQTEYQRLEIYETEGFGKLLVLDGTVQLVEVGEESYHEVLVHPVMLAHPNPRKVLVIGGGDGGTLREVLRHDTVEKAIMVEIDEGVVEASYLYLDVAKDLLDRLIKKEEPRAELIIGDGVKYLRETDERFDVIIVDSTDPVGPAKLLFSEEFYRDAYEKLNEKGLYVTQAGSVYLFTNELLDAYKAMKKVFDRVYYFSFPVIGYASPWSFLVGVKGDVDFTRIDLERAKKLDLYYYDPERHETLFQMPRYVRKLLEGQ |
| 2719 | sp|Q9TTE1|SPA31\_BOVIN | MRAERTSFLLALGLLVAGIRSVHCLPENVVVKDQHRRVDGHTLASSNTDFAFSLYKQLALKNPNKNVILSPLSVSIALAFLSLGARGSTLTEILEGLKFNLTEIQEKEIHHSFQHLLQALNQPSNQLQLSVGNAMFVQEELKLLDKFIEDAQVLYSSEAFPTNFRDSEAARSLINDYVKNKTQGKIEELFKYLSPRTELVLVNYIYFKAQWKTPFDPKHTEQAEFHVSDNKTVEVPMMTLDLETPYFRDEELGCTLVELTYTSNDSALFILPDEGKMRDLEAKLTPETLTRWRNSLQPRRIHELYLPKFSIKSNYELNDILSQLGIRKIFANADLSGITGTADLVVSQVVHGAALDVDEEGTEGAAATGISMERTILRIIVRVNRPFLIAIVLKDTQSIIFLGKVTNPSEA |
| 2720 | sp|O15270|SPTC2\_HUMAN | MRPEPGGCCCRRTVRANGCVANGEVRNGYVRSSAAAAAAAAAGQIHHVTQNGGLYKRPFNEAFEETPMLVAVLTYVGYGVLTLFGYLRDFLRYWRIEKCHHATEREEQKDFVSLYQDFENFYTRNLYMRIRDNWNRPICSVPGARVDIMERQSHDYNWSFKYTGNIIKGVINMGSYNYLGFARNTGSCQEAAAKVLEEYGAGVCSTRQEIGNLDKHEELEELVARFLGVEAAMAYGMGFATNSMNIPALVGKGCLILSDELNHASLVLGARLSGATIRIFKHNNMQSLEKLLKDAIVYGQPRTRRPWKKILILVEGIYSMEGSIVRLPEVIALKKKYKAYLYLDEAHSIGALGPTGRGVVEYFGLDPEDVDVMMGTFTKSFGASGGYIGGKKELIDYLRTHSHSAVYATSLSPPVVEQIITSMKCIMGQDGTSLGKECVQQLAENTRYFRRRLKEMGFIIYGNEDSPVVPLMLYMPAKIGAFGREMLKRNIGVVVVGFPATPIIESRARFCLSAAHTKEILDTALKEIDEVGDLLQLKYSRHRLVPLLDRPFDETTYEETED |
| 2721 | sp|Q8VCQ6|SMS1\_MOUSE | MLSARTMKEVVYWSPKKVADWLLENAMPEYCEPLEHFTGQDLINLTQEDFKKPPLYRVSSDNGQRLLDMIETLKMEHHMEAHKNGHANGHLSIGVDIPNPDGSFSIKTKPNGMPNGFRKEMIKIPMPEPERSQYPMEWGKTFLAFLYALSCFVLTTVMISVVHERVPPKEVQPPLPDTFFDHFNRVQWAFSICEINGMILVGLWLFQWLLLKYKSIISRRFFCIVGTLYLYRCITMYVTTLPVPGMHFNCSPKLFGDWEAQVRRIMKLIAGGGLSITGSHNMCGDYLYSGHTVMLTLTYLFIKEYSPRRLWWYHWICWLLSVVGIFCILLAHDHYTVDVVVAYYITTRLFWWYHTMANQQVLKEASQMNLLARVWWYRPFQYFEKNVQGIVPRSYHWPFPWPVVHLSRQVKYSRLVNDT |
| 2722 | sp|Q9NRG4|SMYD2\_HUMAN | MRAEGLGGLERFCSPGKGRGLRALQPFQVGDLLFSCPAYAYVLTVNERGNHCEYCFTRKEGLSKCGRCKQAFYCNVECQKEDWPMHKLECSPMVVFGENWNPSETVRLTARILAKQKIHPERTPSEKLLAVKEFESHLDKLDNEKKDLIQSDIAALHHFYSKHLGFPDNDSLVVLFAQVNCNGFTIEDEELSHLGSAIFPDVALMNHSCCPNVIVTYKGTLAEVRAVQEIKPGEEVFTSYIDLLYPTEDRNDRLRDSYFFTCECQECTTKDKDKAKVEIRKLSDPPKAEAIRDMVRYARNVIEEFRRAKHYKSPSELLEICELSQEKMSSVFEDSNVYMLHMMYQAMGVCLYMQDWEGALQYGQKIIKPYSKHYPLYSLNVASMWLKLGRLYMGLEHKAAGEKALKKAIAIMEVAHGKDHPYISEIKQEIESH |
| 2723 | sp|Q9C0K7|STRAB\_HUMAN | MSLLDCFCTSRTQVESLRPEKQSETSIHQYLVDEPTLSWSRPSTRASEVLCSTNVSHYELQVEIGRGFDNLTSVHLARHTPTGTLVTIKITNLENCNEERLKALQKAVILSHFFRHPNITTYWTVFTVGSWLWVISPFMAYGSASQLLRTYFPEGMSETLIRNILFGAVRGLNYLHQNGCIHRSIKASHILISGDGLVTLSGLSHLHSLVKHGQRHRAVYDFPQFSTSVQPWLSPELLRQDLHGYNVKSDIYSVGITACELASGQVPFQDMHRTQMLLQKLKGPPYSPLDISIFPQSESRMKNSQSGVDSGIGESVLVSSGTHTVNSDRLHTPSSKTFSPAFFSLVQLCLQQDPEKRPSASSLLSHVFFKQMKEESQDSILSLLPPAYNKPSISLPPVLPWTEPECDFPDEKDSYWEF |
| 2724 | sp|Q9LUR4|SWT16\_ARATH | MADLSFYVGVIGNVISVLVFLSPVETFWRIVQRRSTEEYECFPYICTLMSSSLWTYYGIVTPGEYLVSTVNGFGALAESIYVLIFLFFVPKSRFLKTVVVVLALNVCFPVIAIAGTRTLFGDANSRSSSMGFICATLNIIMYGSPLSAIKTVVTTRSVQFMPFWLSFFLFLNGAIWGVYALLLHDMFLLVPNGMGFFLGIMQLLIYAYYRNAEPIVEDEEGLIPNQPLLA |
| 2725 | sp|Q9XU75|SURO1\_CAEEL | MRYLCKSILLAVHTILLVGSVCCSTDVHNTDDKYALIHVSAHDEQSLHLIKQLQLNDFKYDLDFWKSPSSISDKADIMVKRGKSERMLRQILSFANVTVSMSVPDVEKLIMRNEGTTSKSHLGFGSLSKWLHDDPILDSEPDLDLTKVGALKKAKYPFGDYASYADMVKYMRTIEFYYPRIAKIVRIGATHEGKPIEGLKIGARSSHKKRAVWVDGNIHAREWASSHTALYFINQLVSEYGKDAQITNYVDTLDFYIVPCLNPDGYEYTRTSPIPTVRLWRKNRSPELCRPSLWGGEKCCRGVDLNRNFRFHWAERGSSYEPCSNIYHGEEVFSEPETRAVRNFLATPEMKDRVDAFVTLHSYAQLWIYPYSHEEQNYPEDIGELRKTARKAINRLSRVYGTNYRMGTGADTLSPAAGGSDDWAKSALNVKYVYLIELRPQMELSNGFILHKKELIPTAVETFEGFREVVDAVLTLNNSTSSIGLSSGSNTSRKTISDLQMRKQQYRMRLLASQAAGSTTRSTTTLKTSTTSVSTTSEATSPSKTSRHFDRFTADLNSSTRARPTPPMAPPIMSPSTEFSTTTTEEEDVTGVIRSSSIASRATTYGFFTATKPSAFLDPECRDMRYSCGFWLKNNKQVCEEQQSFMRAQCAYTCKFCTSFIKRH |
| 2726 | sp|P15589|STS\_RAT | MLWPCLLALLLSQLNFLCAARPGPGPNFLLIMADDLGIGDLGCYGNRTLRTPHIDRLALEGVKLTQHLAAAPLCTPSRAAFLTGRYPVRSGMASHGRLGVFLFSASSGGLPPNEVTFAKLLKGQGYTTGLVGKWHLGLSCQAASDFCHHPGRHGFDRFLGTPTTNLRDCKPGGGTVFGSAQQVFVVLPMNILGAVLLAMALARWAGLARPPGWVFGVTVAAMAAVGGAYVAFLYHFRPANCFLMADFTITQQPTDYKGLTQRLASEAGDFLRRNRDTPFLLFLSFMHVHTAHFANPEFAGQSLHGAYGDAVEEMDWAVGQVLATLDKLGLANNTLVYLTSDHGAHVEELGPNGERHGGSNGIYRGGKANTWEGGIRVPGLVRWPGVIVPGQEVEEPTSNMDVFPTVARLAGAELPTDRVIDGRDLMPLLLGHVQHSEHEFLFHYCNAYLSAVAWRPHNSSSVWKAFYFTPNFDPPGSNGCFSTHVCMCHGHHVTHHDPPLLFDIARDPRERHPLTPETEPRHGEILRNMDAAARAHVATLEEAPNQLSMSNVAWKPWLQLCLPSKPHPLACRCAGDG |
| 2727 | sp|G5ECU1|SKR1\_CAEEL | MADQKKVSEAAKEREIKISSSDNEIFLVPRNVIRLSNTINTLLMDLGLDDEEGTNAEPIPVQNVTASILKKVISWCNHHHSDPISTEDSDNREKRTDDIGSWDVEFLKVDQGTLFELILAANYLDIKGLLDVTCKTVANMIKGKSPEEIRRTFNIKNDFTPEEEEQIRKENAWCED |
| 2728 | sp|Q15431|SYCP1\_HUMAN | MEKQKPFALFVPPRSSSSQVSAVKPQTLGGDSTFFKSFNKCTEDDFEFPFAKTNLSKNGENIDSDPALQKVNFLPVLEQVGNSDCHYQEGLKDSDLENSEGLSRVYSKLYKEAEKIKKWKVSTEAELRQKESKLQENRKIIEAQRKAIQELQFGNEKVSLKLEEGIQENKDLIKENNATRHLCNLLKETCARSAEKTKKYEYEREETRQVYMDLNNNIEKMITAFEELRVQAENSRLEMHFKLKEDYEKIQHLEQEYKKEINDKEKQVSLLLIQITEKENKMKDLTFLLEESRDKVNQLEEKTKLQSENLKQSIEKQHHLTKELEDIKVSLQRSVSTQKALEEDLQIATKTICQLTEEKETQMEESNKARAAHSFVVTEFETTVCSLEELLRTEQQRLEKNEDQLKILTMELQKKSSELEEMTKLTNNKEVELEELKKVLGEKETLLYENKQFEKIAEELKGTEQELIGLLQAREKEVHDLEIQLTAITTSEQYYSKEVKDLKTELENEKLKNTELTSHCNKLSLENKELTQETSDMTLELKNQQEDINNNKKQEERMLKQIENLQETETQLRNELEYVREELKQKRDEVKCKLDKSEENCNNLRKQVENKNKYIEELQQENKALKKKGTAESKQLNVYEIKVNKLELELESAKQKFGEITDTYQKEIEDKKISEENLLEEVEKAKVIADEAVKLQKEIDKRCQHKIAEMVALMEKHKHQYDKIIEERDSELGLYKSKEQEQSSLRASLEIELSNLKAELLSVKKQLEIEREEKEKLKREAKENTATLKEKKDKKTQTFLLETPEIYWKLDSKAVPSQTVSRNFTSVDHGISKDKRDYLWTSAKNTLSTPLPKAYTVKTPTKPKLQQRENLNIPIEESKKKRKMAFEFDINSDSSETTDLLSMVSEEETLKTLYRNNNPPASHLCVKTPKKAPSSLTTPGSTLKFGAIRKMREDRWAVIAKMDRKKKLKEAEKLFV |
| 2729 | sp|Q5I0H3|SUMO1\_RAT | MSDQEAKPSTEDLGDKKEGEYIKLKVIGQDSSEIHFKVKMTTHLKKLKESYCQRQGVPMNSLRFLFEGQRIADNHTPKELGMEEEDVIEVYQEQTGGHSTV |
| 2730 | sp|Q9S713|STT7\_ARATH | MATISPGGAYIGTPSPFLGKKLKPFSLTSPILSFKPTVKLNSSCRAQLIDTVHNLFIGVGVGLPCTVMECGDMIYRSTLPKSNGLTITAPGVALALTALSYLWATPGVAPGFFDMFVLAFVERLFRPTFRKDDFVVGKKLGEGSFGVVYKVSLSKKRSNEEGEYVLKKATEYGAVEIWMNERVRRACGNSCADFVYGFLDKSSKKGPEYWLLWKYEGESTLAGLMQSKEFPYNVETIILGKVQDLPKGLERENKIIQTIMRQLLFALDGLHSTGIIHRDVKPQNIIFSEGSRSFKIIDLGAAADLRVGINYIPKEFLLDPRYAAPEQYIMSTQTPSAPSAPVAAALSPVLWQMNLPDRFDIYSIGLIFLQMAFPSLRSDSNLIQFNRQLKRCDYDLTAWRKLVEPRASADLRRGFELVDLDGGIGWELLTSMVRYKARQRISAKAALAHPYFDRQGLLALSVMQNLRMQYFRATQQDYSEAANWVIQLMAKNGTEKDGGFTETQLQELREKEPRKKANAQRNALASALRLQRKLVKTVTETIDEISDGRKTVWWNRWIPREE |
| 2731 | sp|Q8C341|SUCO\_MOUSE | MKKYRRALALVSCLSLCSLVWLPSWHVCCKESSSASTSYYSQDDNCAIGSEDTQFQKKNEREEPSNAELSGKSNSYLTISPEGNKIKDDYTVDVQDLETTKLSLPVVEALPTVDLHEESSSVVVGSETIENSSSSSTSERTPVSELDEVEKSGTLSIAKPGEVEQPEADCDAGEAPDADAPVEQPAFVSPPESLVGQHIENVSSSHGKEKVTKSEFESKVSVSEQDGGDPKSALNTSDTLKNESSDYTKPGETDPTSVTSPKDPEDIPTFDEWKKKVMEVEKEKSQSLHPSSNGGPHATKKVQKNRNNYASVECGAKILAANPEAKSTSAILIENMDLYMLNPCSTKIWFVIELCEPIQVKQFDIANYELFSSTPKDFLVSISDRYPTNKWIKLGTFHGRDERNVQSFPLDEQMYAKYVKMFIKYIKVELLSHFGSEHFCPLSLIRVFGTSMVEEYEEIADSQYQSERQELFDEDYDYPLDYNTVEDKSSKNLLGSATNAILNMVNIAANILGAKTEDLTEGNKSISENATATTEPKMTESTRVSTPVPSPEYVIKEVHTHDREPSTSDPPKESPIVQLVQEEEEEASPSTVTLLGSGEQEDESSSWFESETHILCSELTSICCISSFSEYIYKWCSVRIALYRQRSRTVSKGKDFVPPQPSLLLPVESVEVSVPQPPSGDVDSENMEREAETVDLDDLSSVHQGHLINHTVDTIELEPSYPQTLSQSLLLDVTPEMNSLSKVEGSESVKSEGGYIPSQLMTQESSVEFDDKTEKKTESFSSAEKLSVIYETSKVNEVMDNTVKEDILSTEVVTKFPETVVPPPMNTATVPEGESVETKPSIADTLKHTVTPVMDPSLPEVKEDEQSPEDALLRGLQRTATDFYAELQNSTDLGYGNGNLVHGSNQKESVFMRLNNRIKALEVNMSLSGRYLEELSQRYRKQMEEMQKAFNKTIVKLQNTSRIAEEQDQRQTEAIHLLQAQLTNMTQLVSNLSATVAELKREVSDRQSYLVMSLVLCVVLGLMLCMQRCRTTSQFDGDYISKLPKSNQYPSPKRCFSSYDDMNLKRRTSFPLIRSKSLQFTGKEVDPNDLYIVEPLKFSPEKKKKRCKYKTEKIETIKPADPLHPIANGDIKGRKPFTNQRDFSNMGEVYHSSYKGPPSEGSSETSSQSEESYFCGISACTSLCNGQTQKTKTEKRALKRRRSKVQDQGKLIKALIQTKSGSLPSLHDIIKGNKEITVGAFGVTAVSGHI |
| 2732 | sp|Q8GZB6|SUVH4\_ARATH | MAGKRKRANAPDQTERRSSVRVQKVRQKALDEKARLVQERVKLLSDRKSEICVDDTELHEKEEENVDGSPKRRSPPKLTAMQKGKQKLSVSLNGKDVNLEPHLKVTKCLRLFNKQYLLCVQAKLSRPDLKGVTEMIKAKAILYPRKIIGDLPGIDVGHRFFSRAEMCAVGFHNHWLNGIDYMSMEYEKEYSNYKLPLAVSIVMSGQYEDDLDNADTVTYTGQGGHNLTGNKRQIKDQLLERGNLALKHCCEYNVPVRVTRGHNCKSSYTKRVYTYDGLYKVEKFWAQKGVSGFTVYKYRLKRLEGQPELTTDQVNFVAGRIPTSTSEIEGLVCEDISGGLEFKGIPATNRVDDSPVSPTSGFTYIKSLIIEPNVIIPKSSTGCNCRGSCTDSKKCACAKLNGGNFPYVDLNDGRLIESRDVVFECGPHCGCGPKCVNRTSQKRLRFNLEVFRSAKKGWAVRSWEYIPAGSPVCEYIGVVRRTADVDTISDNEYIFEIDCQQTMQGLGGRQRRLRDVAVPMNNGVSQSSEDENAPEFCIDAGSTGNFARFINHSCEPNLFVQCVLSSHQDIRLARVVLFAADNISPMQELTYDYGYALDSVHGPDGKVKQLACYCGALNCRKRLY |
| 2733 | sp|O89116|VTI1A\_MOUSE | MSSDFEGYEQDFAVLTAEITSKIARVPRLPPDEKKQMVANVEKQLEEARELLEQMDLEVREIPPQSRGMYSNRMRSYKQEMGKLETDFKRSRIAYSDEVRNELLGDAGNSSENQRAHLLDNTERLERSSRRLEAGYQIAVETEQIGQEMLENLSHDREKIQRARDRLRDADANLGKSSRILTGMLRRIIQNRILLVILGIIVVIAILTAIAFFVKGH |
| 2734 | sp|P04426|WNT1\_MOUSE | MGLWALLPSWVSTTLLLALTALPAALAANSSGRWWGIVNIASSTNLLTDSKSLQLVLEPSLQLLSRKQRRLIRQNPGILHSVSGGLQSAVRECKWQFRNRRWNCPTAPGPHLFGKIVNRGCRETAFIFAITSAGVTHSVARSCSEGSIESCTCDYRRRGPGGPDWHWGGCSDNIDFGRLFGREFVDSGEKGRDLRFLMNLHNNEAGRTTVFSEMRQECKCHGMSGSCTVRTCWMRLPTLRAVGDVLRDRFDGASRVLYGNRGSNRASRAELLRLEPEDPAHKPPSPHDLVYFEKSPNFCTYSGRLGTAGTAGRACNSSSPALDGCELLCCGRGHRTRTQRVTERCNCTFHWCCHVSCRNCTHTRVLHECL |
| 2735 | sp|C0LGJ9|Y2278\_ARATH | MQISLQIHLSSFTFLLLIFLLPVLSESQVASSESQTLLEIQKQLQYPQVLQSWTDTTNFCHIRPSPSLRIICLHGHVTELTVTGNRTSKLSGSFHKLFTLLTQLSSLKTLSLTSLGISGSLSPKIITKLSPSLESLNLSSNFISGKIPEEIVSLKNLKSLVLRDNMFWGFVSDDLRGLSNLQELDLGGNKLGPEVPSLPSKLTTVSLKNNSFRSKIPEQIKKLNNLQSLDLSSNEFTGSIPEFLFSIPSLQILSLDQNLLSGSLPNSSCTSSKIITLDVSHNLLTGKLPSCYSSKSFSNQTVLFSFNCLSLIGTPNAKYQRPLSFCQNQASKAIAVEPIPKAKDKDSARIKLGLVILIIIGVIILAAILVLLVLIALKRRRSRSEDDPFEVNNSNNERHASDKVSVCSTTTASSKSLPDSRRVPQTMRSAVIGLPPYRVFSLEELEEATNDFDAASLFCEQLYRGCLREGIPVTVRVIKLKQKSLPQSLAQQMEVLSKLRHMHLVSVLGHSIASNQDHNQHAGHTIFIVQEYISSGSLRDFLTNCRKKEVLKWPQRMAIAIGVARGIQFLHMGVAPGIFGNNLKIENIMLDETLTVKISGYTIPLPSKVGEERPQAKKPRSNEDREKEDVYQFGVILLQIITGKVVAAGSSEMGSLKLQLENGLRDEPSVLSSLADPSVKGSYAYESLRTTVEFAINCLCEDQSKRPSIEDVVWNLQYTIQVQQGWRPSSGNHESSMKAIYE |
| 2736 | sp|P0A6D5|YDIB\_ECOLI | MDVTAKYELIGLMAYPIRHSLSPEMQNKALEKAGLPFTYMAFEVDNDSFPGAIEGLKALKMRGTGVSMPNKQLACEYVDELTPAAKLVGAINTIVNDDGYLRGYNTDGTGHIRAIKESGFDIKGKTMVLLGAGGASTAIGAQGAIEGLKEIKLFNRRDEFFDKALAFAQRVNENTDCVVTVTDLADQQAFAEALASADILTNGTKVGMKPLENESLVNDISLLHPGLLVTECVYNPHMTKLLQQAQQAGCKTIDGYGMLLWQGAEQFTLWTGKDFPLEYVKQVMGFGA |
| 2737 | sp|P62961|YBOX1\_RAT | MSSEAETQQPPAAPAAALSAADTKPGSTGSGAGSGGPGGLTSAAPAGGDKKVIATKVLGTVKWFNVRNGYGFINRNDTKEDVFVHQTAIKKNNPRKYLRSVGDGETVEFDVVEGEKGAEAANVTGPGGVPVQGSKYAADRNHYRRYPRRRGPPRNYQQNYQNSESGEKNEGSESAPEGQAQQRRPYRRRRFPPYYMRRPYARRPQYSNPPVQGEVMEGADNQGAGEQGRPVRQNMYRGYRPRFRRGPPRQRQPREDGNEEDKENQGDETQGQQPPQRRYRRNFNYRRRRPENPKPQDGKETKAADPPAENSSAPEAEQGGAE |
| 2738 | sp|Q99231|YD12B\_YEAST | MESQQLSNYPHISHGSACASVTSKEVHTNQDPLDVSASKIQEYDKASTKANSQQTTTPASSAVPENPHHASPQPASVPPPQNGPYPQQCMMTQNQANPSGWSFYGHPSMIPYTPYQMSPMYFPPGPQSQFPQYPSSVGTPLSTPSPESGNTFTDSSSADSDMTSTKKYVRPPPMLTSPNDFPNWVKTYIKFLQNSNLGGIIPTVNGKPVRQITDDELTFLYNTFQIFAPSQFLPTWVKDILSVDYTDIMKILSKSIEKMQSDTQEANDIVTLANLQYNGSTPADAFETKVTNIIDRLNNNGIHINNKVACQLIMRGLSGEYKFLRYTRHRHLNMTVAELFLDIHAIYEEQQGSRNSKPNYRRNRSDEKNDSRSYTNTTKPKVIARNPQKTNNSKSKTARAHNVSTSINSPSTDNDSISKSTTEPIQLNNKHDLHLGQKLTESTVNHTNHSDDELPGHLLLDSGASRTLIRSAHHIHSASSNPDINVVDAQKRNIPINAIGDLQFHFQDNTKTSIKVLHTPNIAYDLLSLNELAAVDITACFTKNVLERSDGTVLAPIVKYGDFYWVSKKYLLPSNISVPTINNVHTSESTRKYPYPFIHRMLAHANAQTIRYSLKNNTITYFNESDVDWSSAIDYQCPDCLIGKSTKHRHIKGSRLKYQNSYEPFQYLHTDIFGPVHNLPNSAPSYFISFTDETTKFRWVYPLHDRREDSILDVFTTILAFIKNQFQASVLVIQMDRGSEYTNRTLHKFLEKNGITPCYTTTADSRAHGVAERLNRTLLDDCRTQLQCSGLPNHLWFSAIEFSTIVRNSLASPKSKKSARQHAGLAGLDISTLLPFGQPVIVNDHNPNSKIHPRGIPGYALHPSRNSYGYIIYLPSLKKTVDTTNYVILQGKDSRLDQFNYDALTFDEDLNRLTASYQSFIASNEIQQSNDLNIESDHDFQSDIELYPEQPRNVLSKAVSPTDSTPPSTHTEDSKRVSKTNIRAPREVDPNISESNILPSKKRSSTPQISDIESTDSGGMHRLDVPLLAPMSQSNTHESSYASKSKDFRHSDSYSENETNHTNVPISSTGGTNNKTVPQISDQETEKRIIHRSPSIDASPPENNSSHNIVPIKTPTTVSEQNTEESIIADLPLPDLPPESPTEFPDPFKELPPINSHQTNSSLGGIGDSNAYTTINSKKRSLEDNETEIKVSRDTWNTKNMRSLEPPRSKKRIHLIAAVKAVKSIKPIRTTLRYDEAITYNKDIKEKEKYIEAYHKEVNQLLKMNTWDTDKYYDRKEIDPKRVINSMFIFNKKRDGTHKARFVARGDIQHPDTYDTGMQSNTVHHYALMTSLSLALDNNYYITQLDISSAYLYADIKEELYIRPPPHLGMNDKLIRLKKSLYGLKQSGANWYETIKSYLIKQCGMEEVRGWSCVFKNSQVTICLFVDDMILFSKDLNANKKIITTLKKQYDTKIINLGESDNEIQYDILGLEIKYQRGKYMKLGMEKSLTEKLPKLNVPLNPKGKKLRAPGQPGHYIDQDELEIDEDEYKEKVHEMQKLIGLASYVGYKFRFDLLYYINTLAQHILFPSRQVLDMTYELIQFMWDTRDKQLIWHKNKPTKPDNKLVAISDASYGNQPYYKSQIGNIFLLNGKVIGGKSTKASLTCTSTTEAEIHAVSEAIPLLNNLSHLVQELNKKPIIKGLLTDSRSTISIIKSTNEEKFRNRFFGTKAMRLRDEVSGNNLYVYYIETKKNIADVMTKPLPIKTFKLLTNKWIH |
| 2739 | sp|Q96GC6|ZN274\_HUMAN | MASRLPTAWSCEPVTFEDVTLGFTPEEWGLLDLKQKSLYREVMLENYRNLVSVEHQLSKPDVVSQLEEAEDFWPVERGIPQDTIPEYPELQLDPKLDPLPAESPLMNIEVVEVLTLNQEVAGPRNAQIQALYAEDGSLSADAPSEQVQQQGKHPGDPEAARQRFRQFRYKDMTGPREALDQLRELCHQWLQPKARSKEQILELLVLEQFLGALPVKLRTWVESQHPENCQEVVALVEGVTWMSEEEVLPAGQPAEGTTCCLEVTAQQEEKQEDAAICPVTVLPEEPVTFQDVAVDFSREEWGLLGPTQRTEYRDVMLETFGHLVSVGWETTLENKELAPNSDIPEEEPAPSLKVQESSRDCALSSTLEDTLQGGVQEVQDTVLKQMESAQEKDLPQKKHFDNRESQANSGALDTNQVSLQKIDNPESQANSGALDTNQVLLHKIPPRKRLRKRDSQVKSMKHNSRVKIHQKSCERQKAKEGNGCRKTFSRSTKQITFIRIHKGSQVCRCSECGKIFRNPRYFSVHKKIHTGERPYVCQDCGKGFVQSSSLTQHQRVHSGERPFECQECGRTFNDRSAISQHLRTHTGAKPYKCQDCGKAFRQSSHLIRHQRTHTGERPYACNKCGKAFTQSSHLIGHQRTHNRTKRKKKQPTS |
| 2740 | sp|Q9UL40|ZN346\_HUMAN | MEYPAPATVQAADGGAAGPYSSSELLEGQEPDGVRFDRERARRLWEAVSGAQPVGREEVEHMIQKNQCLFTNTQCKVCCALLISESQKLAHYQSKKHANKVKRYLAIHGMETLKGETKKLDSDQKSSRSKDKNQCCPICNMTFSSPVVAQSHYLGKTHAKNLKLKQQSTKVEALHQNREMIDPDKFCSLCHATFNDPVMAQQHYVGKKHRKQETKLKLMARYGRLADPAVTDFPAGKGYPCKTCKIVLNSIEQYQAHVSGFKHKNQSPKTVASSLGQIPMQRQPIQKDSTTLED |
| 2741 | sp|P39447|ZO1\_MOUSE | MSARAAAAKSTAMEETAIWEQHTVTLHRAPGFGFGIAISGGRDNPHFQSGETSIVISDVLKGGPAEGQLQENDRVAMVNGVSMDNVEHAFAVQQLRKSGKNAKITIRRKKKVQIPVSHPDPEPVSDNEDDSYDEEVHDPRAGRGALANRRSEKSWARDRSASRERSLSPRSDRRSVASSQPAKPTKVTLVKSRKNEEYGLRLASHIFVKEISQDSLAARDGNIQEGDVVLKINGTVTENMSLTDAKTLIERSKGKLKMVVQRDERATLLNVPDLSDSIHSANASERDDISEIQSLASDHSGRSHDRPPRRSQSRSPDQRSEPSDHSTQSPQQPSNGSLRSREEERMSKPGAISTPVKHVDDHPPKAVEEVTVEKNEKQTPTLPEPKPVYAQVGQPDVDLPVSPSDGALPNSAHEDGILRPSMKLVKFRKGDSVGLRLAGGNDVGIFVAGVLEDSPAAKEGLEEGDQILRVNNVDFTNIIREEAVLFLLDLPKGEEVTILAQKKKDVYRRIVESDVGDSFYIRTHFEYEKESPYGLSFNKGEVFRVVDTLYNGKLGSWLAIRIGKNHKEVERGIIPNKNRAEQLASVQYTLPKTAGGDRADFWRFRGLRSSKRNLRKSREDLSAQPVQTKFPAYERVVLREAGFLRPVTIFGPIADVAREKLAREEPDIYQIAKSEPRDAGTDHRSSGIIRLHTIKQIIDQDKHALLDVTPNAVDRLNYAQWYPIVVFLNPDSKQGVKTMRMRLCPESRKSARKLYERSHKLRKNNHHLFTTTINLNSMNDGWYGALKEAIQQQQNQLVWVSEGKADGATSDDLDLHDDRLSYLSAPGSEYSMYSTDSRHTSDYEDTDTEGGAYTDQELDETLNDEVGTPPESAITRSSEPVREDSSGMHHENQTYPPYSPQAQPQAIHRIDSPGLKPASQQKAEASSPVPYLSPETTPASSASAVNHNVSVTNVSLEEPAPAPPTSHASQPGCLGAPSAEAAHVVLRGEGPPLPPHADPAKVYRKEPYSEEMMRQNHILKQPALGHPGQRPDKEPNLAYEPQLPYIEKQASRDLEQPSYRYEVSSYTDQFSRNYDHRLRFEDRIPTYEDQWSYYDDKQPYQPRPFENQHPRDLDSRQHPEEASERGYFQRFEEPAPLSYDSRTRYEQLPRTSTLRHEEQPAPAYEVHNRYRPEAQPYSSTGPKSSEPKQYFDQYPRSYEQVPPPGFTSKTGHYEPLHGAAVVPPLIPSSQQKPEVLPSATKPQPPPPTLTEEEEDPAMKPQSVLTRVKMFENKRSASLENKKDVNDTASFKPPEVASKPPGASLAGPKPVPQSQFSEHDKTLYRLPEPQKPQVKPPEDIVRSNHYDPEEDEEYYRKQLSYFDRRSFESKPSAHLPAGHHSEPAKPVHSQSQPNFSSYSSKGKPETDAVDRSFSEKRYDPAQATPPPPPLPSQYSQPAPPLSSSSLHIHSKGAQGEGNSVSLDFQNSYMSKPDPPPSQSKPATFRPPTREDPPQTFYPQKSFPDKAPVNGAEQTQKTITPVYNRFTPKPYTSSARPFERKFESPKFNHNLLPSETVHKPELSSKTPTSPKTLMKAHSSTQPPEFDSGVETFSVHTDKPKYQMNNISTMPKAVPVSPSAVEEDEDEDGHTVVATARGIFNSNGGVLSSIETGVSIIIPQGAIPEGIEQEIYFKVCRDNSILPPLDKEKGETLLSPLVMCGPHGLKFLKPVELRLPHCDPKTWQNKCLPGDPNYLVGANCVSVLIDHF |
| 2742 | sp|P42620|YQJG\_ECOLI | MGQLIDGVWHDTWYDTKSTGGKFQRSASAFRNWLTADGAPGPTGTGGFIAEKDRYHLYVSLACPWAHRTLIMRKLKGLEPFISVSVVNPLMLENGWTFDDSFPGATGDTLYQNEFLYQLYLHADPHYSGRVTVPVLWDKKNHTIVSNESAEIIRMFNTAFDALGAKAGDYYPPALQTKIDELNGWIYDTVNNGVYKAGFATSQEAYDEAVAKVFESLARLEQILGQHRYLTGNQLTEADIRLWTTLVRFDPVYVTHFKCDKHRISDYLNLYGFLRDIYQMPGIAETVNFDHIRNHYFRSHKTINPTGIISIGPWQDLDEPHGRDVRFG |
| 2743 | sp|Q9H8N7|ZN395\_HUMAN | MASVLSRRLGKRSLLGARVLGPSASEGPSAAPPSEPLLEGAAPQPFTTSDDTPCQEQPKEVLKAPSTSGLQQVAFQPGQKVYVWYGGQECTGLVEQHSWMEGQVTVWLLEQKLQVCCRVEEVWLAELQGPCPQAPPLEPGAQALAYRPVSRNIDVPKRKSDAVEMDEMMAAMVLTSLSCSPVVQSPPGTEANFSASRAACDPWKESGDISDSGSSTTSGHWSGSSGVSTPSPPHPQASPKYLGDAFGSPQTDHGFETDPDPFLLDEPAPRKRKNSVKVMYKCLWPNCGKVLRSIVGIKRHVKALHLGDTVDSDQFKREEDFYYTEVQLKEESAAAAAAAAAGTPVPGTPTSEPAPTPSMTGLPLSALPPPLHKAQSSGPEHPGPESSLPSGALSKSAPGSFWHIQADHAYQALPSFQIPVSPHIYTSVSWAAAPSAACSLSPVRSRSLSFSEPQQPAPAMKSHLIVTSPPRAQSGARKARGEAKKCRKVYGIEHRDQWCTACRWKKACQRFLD |
| 2744 | sp|Q06681|YSP2\_YEAST | MRDEATRKKRSFSDGHFFKKLKLMSRKKQPVMERSKTTRTRKESTNSAAKSSLSLRRANNGRKTIAKRRVLTDIGSTNEGVAGNSGSNSPAQYSHTPHFSDSIPPLPLELPDIVSIRSSRSHISNKSNKNKHGIDLTFIPRRSLQNSKAGLKKPNTSPQGYFNIPVTIDRASEKVKHTDTKNTFNSSSSENERPVLSILQKDDSQSSSHPAIDSMSAPNNINNNNDIENSSNSLFDTILSIAHSAISHVPKISALNTEIQREFSHSGESHTGSTRHPYFHIHHAQQQHPLSQQQGPLPVSENANQNPNDTVLIHSPSANTAHRSSSFLRHLDYLLSPTSGPASDKHTQVEEGDDEEELSPLSKAFLSPSTQLVPTNTSTTPLSGSLTPNNRNVNANSNSETENDNDRDDRSNVGKVKFQPLKVHEPAISTFGKGNLTLEAVAGSSDIDNTTIDLDENNTNNNPNASSTNLSHISKSNVNNNLGPKELNTSYRNSTYIDMARFENSQSNLSSHRARSKTLPANKALENAVGDEGNSKRNSRYSSYSNDMAFDDADERKFRSMSKKFLNRRSFSPSNLGNKVIPGINLRNSFNKNRNSSSDFFSTNQGQQMPRTSTAGSGNIHAIMGLDSGNDDFKLEGIEYASEKKNSEFHTLFKDCDINPNEKLIVDHSCALSRDILLQGRMYISDAHIGFFSNILGWVSTVFIPFKEIVQIEKKTTAGIFPNGIVIDTLHTKYIFASFMSRDATFDLITDVWNQIILGKKYRNGFGNNDDGTISDSSSAFFDDSDDNDDDGDLDDDDPDINSTDMTSSDDIDADVFNESNDLGKNQKSTNYLLGPNKHSPTTADFKPSNNDHLVIEANINAPLGKVVNLLYGEDVSYYERILKAQKNFEISPIPNNFLTKKIRDYAYTKPLSGSIGPSKTKCLITDTLEHYDLEDYVKVLSITKNPDVPSGNIFSVKTVFLFSWDKNNSTKLTVYNSVDWTGKSWIKSMIEKGTFDGVADTTKIMISEIKKILSDEDSNINSKHQASNNESEEEIINLPTIGPPVHDPTEPDFQKGKDDTVIDEKINIPVPLGTVFSLLYGDDTSYIKKIIENQNNFNVCDIPKFVNNAREITYTKKLNNSFGPKQTKCIVTETIEHMDLNSFFMVKQIVRSPDVPYGSSFSVHTRFFYSWGDHNTTNMKVVTNVVWTGKSMLKGTIEKGSIDGQRSSTKQLVDDLKKIISNASSTKKKSRRRGKTVNKRKSSPSTIKNEKNEENFEDTSTKNSFFSAFSMLQQVNITSVQGIMTIISFFICLIFFFRLLFHSKNTSNIQIITPGTILINGNEYNYVPNFKTLYHVYEDNIIKDARRKDSNKNNIVTDTEGLIWDWLIDRGNGTVQNSVLSNHIKESNNKKVKLVNGVSDHKIQQLVESIKITELQLQEMKELLAQTDNTSATNQLL |
| 2745 | sp|Q6P1E1|ZMIZ1\_MOUSE | MNSMDRHIQQTNDRLQCIKQHLQNPANFHNAATELLDWCGDPRAFQRPFEQSLMGCLTVVSRVAAQQGFDLDLGYRLLAVCAANRDKFTPKSAALLSSWCEELGRLLLLRHQKSRQNDPPGKLPMQPPLSSMSSMKPTLSHSDGSFPYDSVPWQQNTNQPPGSLSVVTTVWGVTNTSQSQVLGNPMANANNPMNPGGNPMASGMSTSNPGINSPQFAGQQQQFSTKAGPAQPYIQPNMYGRPGYPGSGGFGASYPGGPSAPAGMGIPPHTRPPADFTQPAAAAAAAAVAAAAATATATATATVAALQETQNKDINQYGPVCSSFQMGPTQAYNSQFMNQPGPRGPASMGGSLNPAGMAAGMTPSGMSGPPMGMNQPRPPGISPFGTHGQRMPQQTYPGPRPQSLPIQSIKRPYPGEPNYGNQQYGPNSQFPTQPGQYPTPNPPRPLTSPNYPGQRMPSQPSTGQYPPPTVNMGQYYKPEQFNGQNNTFSSGSSYSSYSQGSVNRPPRPVPVANYPHSPVPGNPTPPMTPGSSIPPYLSPSQDVKPPFPPDIKPNMSALPPPPANHNDELRLTFPVRDGVVLEPFRLEHNLAVSNHVFHLRPTVHQTLMWRSDLELQFKCYHHEDRQMNTNWPASVQVSVNATPLTIERGDNKTSHKPLHLKHVCQPGRNTIQITVTACCCSHLFVLQLVHRPSVRSVLQGLLKKRLLPAEHCITKIKRNFSSVAASSGNTTLNGEDGVEQTAIKVSLKCPITFRRIQLPARGHDCKHVQCFDLESYLQLNCERGTWRCPVCNKTALLEGLEVDQYMWGILNAIQHSEFEEVTIDPTCSWRPVPIKSDLHIKDDPDGIPSKRFKTMSPSQMIMPNVMEMIAALGPGPSPYPLPPPPGGTSSNDYSSQGNNYQGHGNFDFPHGNPGGTSMNDFMHGPPQLSHPPDMPNNMAALEKPLSHPMQETMPHAGSSDQPHPSIQQGLHVPHPSSQAGPPLHHSGAPPPSQPPRQPPQAAPGNHPHSDLTFNPSSALEGQAGAQGASDMPEPSLDLLPELTNPDELLSYLDPPDLPSNSNDDLLSLFENN |
| 2746 | sp|O02274|ZTF11\_CAEEL | MSSISNNPDFSSIDPAVLMSLLMKSSGSLPTPPDTHSDGSESPDSTASDSSDKKRRRKPESKDIVRVAEEAEAAAATCSSIPSSSDTKENETEEDQNMTCDTTTNNAQKPTEQTATSADVVTSSVPSGLEGVPSFLFSQFMAPSFQKQLEIFTSGNMMSATHSDTSPSDVDSVLDGGVVTAEETSSSKSPMMTSSDTPKTPLTASSPPHSSGSESRVMSPITHTNISDELSISTTPTVAFTPNGSIPSPGTGYSWSIRREGKLACPTPGCDGSGHQTGLYTHHRSLSGCPRRPDKTVIQMLALRQDTVLRCTTAGCSGKGHVNGNRTSHRSLSGCPIAHQEKLARKGIKTTPQRTKTPIKGISISDECPLDLTLSGLPAGLSAQQLLAAAQAGLIPSSQMMDALFQQFSQTQPLATLEEESKKENEMEVDVETTSDDIPTLIKEEEEVKCESPVPSVIPEIQSTPSRPVAAPVAPGSAEKSSPTSQMLLQMPGFSEALLKMTAPQVPFPQYSPQAALFGNQSALLAQIMLTQLQMQQGF |
| 2747 | sp|Q9NXF8|ZDHC7\_HUMAN | MQPSGHRLRDVEHHPLLAENDNYDSSSSSSSEADVADRVWFIRDGCGMICAVMTWLLVAYADFVVTFVMLLPSKDFWYSVVNGVIFNCLAVLALSSHLRTMLTDPGAVPKGNATKEYMESLQLKPGEVIYKCPKCCCIKPERAHHCSICKRCIRKMDHHCPWVNNCVGEKNQRFFVLFTMYIALSSVHALILCGFQFISCVRGQWTECSDFSPPITVILLIFLCLEGLLFFTFTAVMFGTQIHSICNDETEIERLKSEKPTWERRLRWEGMKSVFGGPPSLLWMNPFVGFRFRRLPTRPRKGGPEFSV |
| 2748 | sp|Q8NAP3|ZBT38\_HUMAN | MTVMSLSRDLKDDFHSDTVLSILNEQRIRGILCDVTIIVEDTKFKAHSNVLAASSLYFKNIFWSHTICISSHVLELDDLKAEVFTEILNYIYSSTVVVKRQETVTDLAAAGKKLGISFLEDLTDRNFSNSPGPYVFCITEKGVVKEEKNEKRHEEPAITNGPRITNAFSIIETENSNNMFSPLDLRASFKKVSDSMRTASLCLERTDVCHEAEPVRTLAEHSYAVSSVAEAYRSQPVREHDGSSPGNTGKENCEALAAKPKTCRKPKTFSIPQDSDSATENIPPPPVSNLEVNQERSPQPAAVLTRSKSPNNEGDVHFSREDENQSSDVPGPPAAEVPPLVYNCSCCSKAFDSSTLLSAHMQLHKPTQEPLVCKYCNKQFTTLNRLDRHEQICMRSSHMPIPGGNQRFLENYPTIGQNGGSFTGPEPLLSENRIGEFSSTGSTLPDTDHMVKFVNGQMLYSCVVCKRSYVTLSSLRRHANVHSWRRTYPCHYCNKVFALAEYRTRHEIWHTGERRYQCIFCLETFMTYYILKNHQKSFHAIDHRLSISKKTANGGLKPSVYPYKLYRLLPMKCKRAPYKSYRNSSYENARENSQMNESAPGTYVVQNPHSSELPTLNFQDTVNTLTNSPAIPLETSACQDIPTSANVQNAEGTKWGEEALKMDLDNNFYSTEVSVSSTENAVSSDLRAGDVPVLSLSNSSENAASVISYSGSAPSVIVHSSQFSSVIMHSNAIAAMTSSNHRAFSDPAVSQSLKDDSKPEPDKVGRFASRPKSIKEKKKTTSHTRGEIPEESNYVADPGGSLSKTTNIAEETSKIETYIAKPALPGTSTNSNVAPLCQITVKIGNEAIVKRHILGSKLFYKRGRRPKYQMQEEPLPQGNDPEPSGDSPLGLCQSECMEMSEVFDDASDQDSTDKPWRPYYNYKPKKKSRQLKKMRKVNWRKEHGNRSPSHKCKYPAELDCAVGKAPQDKPFEEEETKEMPKLQCELCDGDKAVGAGNQGRPHRHLTSRPYACELCAKQFQSPSTLKMHMRCHTGEKPYQCKTCGRCFSVQGNLQKHERIHLGLKEFVCQYCNKAFTLNETLKIHERIHTGEKRYHCQFCFQRFLYLSTKRNHEQRHIREHNGKGYACFQCPKICKTAAALGMHQKKHLFKSPSQQEKIGDVCHENSNPLENQHFIGSEDNDQKDNIQTGVENVVL |
| 2749 | sp|Q15526|SURF1\_HUMAN | MAAVAALQLGLRAAGLGRAPASAAWRSVLRVSPRPGVAWRPSRCGSSAAEASATKAEDDSFLQWVLLLIPVTAFGLGTWQVQRRKWKLNLIAELESRVLAEPVPLPADPMELKNLEYRPVKVRGCFDHSKELYMMPRTMVDPVREAREGGLISSSTQSGAYVVTPFHCTDLGVTILVNRGFVPRKKVNPETRQKGQIEGEVDLIGMVRLTETRQPFVPENNPERNHWHYRDLEAMARITGAEPIFIDANFQSTVPGGPIGGQTRVTLRNEHLQYIVTWYGLSAATSYLWFKKFLRGTPGV |
| 2750 | sp|Q13285|STF1\_HUMAN | MDYSYDEDLDELCPVCGDKVSGYHYGLLTCESCKGFFKRTVQNNKHYTCTESQSCKIDKTQRKRCPFCRFQKCLTVGMRLEAVRADRMRGGRNKFGPMYKRDRALKQQKKAQIRANGFKLETGPPMGVPPPPPPAPDYVLPPSLHGPEPKGLAAGPPAGPLGDFGAPALPMAVPGAHGPLAGYLYPAFPGRAIKSEYPEPYASPPQPGLPYGYPEPFSGGPNVPELILQLLQLEPDEDQVRARILGCLQEPTKSRPDQPAAFGLLCRMADQTFISIVDWARRCMVFKELEVADQMTLLQNCWSELLVFDHIYRQVQHGKEGSILLVTGQEVELTTVATQAGSLLHSLVLRAQELVLQLLALQLDRQEFVCLKFIILFSLDLKFLNNHILVKDAQEKANAALLDYTLCHYPHCGDKFQQLLLCLVEVRALSMQAKEYLYHKHLGNEMPRNNLLIEMLQAKQT |
| 2751 | sp|P39015|STM1\_YEAST | MSNPFDLLGNDVEDADVVVLPPKEIVKSNTSSKKADVPPPSADPSKARKNRPRPSGNEGAIRDKTAGRRNNRSKDVTDSATTKKSNTRRATDRHSRTGKTDTKKKVNQGWGDDKKELSAEKEAQADAAAEIAEDAAEAEDAGKPKTAQLSLQDYLNQQANNQFNKVPEAKKVELDAERIETAEKEAYVPATKVKNVKSKQLKTKEYLEFDATFVESNTRKNFGDRNNNSRNNFNNRRGGRGARKGNNTANATNSANTVQKNRNIDVSNLPSLA |
| 2752 | sp|P37296|STV1\_YEAST | MNQEEAIFRSADMTYVQLYIPLEVIREVTFLLGKMSVFMVMDLNKDLTAFQRGYVNQLRRFDEVERMVGFLNEVVEKHAAETWKYILHIDDEGNDIAQPDMADLINTMEPLSLENVNDMVKEITDCESRARQLDESLDSLRSKLNDLLEQRQVIFECSKFIEVNPGIAGRATNPEIEQEERDVDEFRMTPDDISETLSDAFSFDDETPQDRGALGNDLTRNQSVEDLSFLEQGYQHRYMITGSIRRTKVDILNRILWRLLRGNLIFQNFPIEEPLLEGKEKVEKDCFIIFTHGETLLKKVKRVIDSLNGKIVSLNTRSSELVDTLNRQIDDLQRILDTTEQTLHTELLVIHDQLPVWSAMTKREKYVYTTLNKFQQESQGLIAEGWVPSTELIHLQDSLKDYIETLGSEYSTVFNVILTNKLPPTYHRTNKFTQAFQSIVDAYGIATYKEINAGLATVVTFPFMFAIMFGDMGHGFILFLMALFLVLNERKFGAMHRDEIFDMAFTGRYVLLLMGAFSVYTGLLYNDIFSKSMTIFKSGWQWPSTFRKGESIEAKKTGVYPFGLDFAWHGTDNGLLFSNSYKMKLSILMGYAHMTYSFMFSYINYRAKNSKVDIIGNFIPGLVFMQSIFGYLSWAIVYKWSKDWIKDDKPAPGLLNMLINMFLAPGTIDDQLYSGQAKLQVVLLLAALVCVPWLLLYKPLTLRRLNKNGGGGRPHGYQSVGNIEHEEQIAQQRHSAEGFQGMIISDVASVADSINESVGGGEQGPFNFGDVMIHQVIHTIEFCLNCISHTASYLRLWALSLAHAQLSSVLWDMTISNAFSSKNSGSPLAVMKVVFLFAMWFVLTVCILVFMEGTSAMLHALRLHWVEAMSKFFEGEGYAYEPFSFRAIIE |
| 2753 | sp|Q9V877|SUB\_DROME | MDSKEVSEVPRREVRSFLMARDPSIDRRFRPRPNKKMRLFDNIQESEEESFSEYSDTESEYKYQSSEATEGASCATSAADSSNVETGPQVFLRLRPVKDASKAYIVSEEANVLITSCKVDSTSNNVNRMEKHFGFTSIFDSTVGQRDIYDTCVGPKIMEEECVTIMTYGTSGSGKTYTLLGDDVRAGIIPRALENIFTIYQDTVFRSPKLKLINGSIVFLQDDASLKELQIRKKLLDLCPDISAHHQRLKQVIDGDHMFETKASTDVSVLVWVSFVEIYNELVYDLLAIPPKQDKLGEVPRKNLKIVGNKGHVFIKGLTSVFVTSSEEALRLLRLGQQRSTYASTSVNANSSRSHCVFTVDILKYNRSGITTQSSYKFCDLAGSERVNNTGTSGLRLKEAKNINTSLMVLGRCLDAASTVQKKKNADIIPYRDSKLTMLLQAALLGKEKLAMIVTVTPLDKYYEENLNVLNFASIAKNIIFKEPVIKQHRVSYCGFMEFSKMSTCEGGDYTKELEDENVRLQLEIEQLKYDHVLQMQLLEEKLRRELTATYQEIIQNNKKQYEDECEKKLLIAQRESEFMLSSQRRRYEEQIEDLKDEIEELKNPASDTDISDDPNESKSPIEILDDD |
| 2754 | sp|P11101|STP2\_RAT | MDTKMQSLPTTHPHPHSSSRPQSHTNNQCACSHHCRSCSQAGHPSSSSSPSPGPPTKHPKTPMHSRYSPSRPSHRGSCPKNRKTLEGKVSKRKAVRRRKRTHRAKRRSSGRRYK |
| 2755 | sp|Q92835|SHIP1\_HUMAN | MVPCWNHGNITRSKAEELLSRTGKDGSFLVRASESISRAYALCVLYRNCVYTYRILPNEDDKFTVQASEGVSMRFFTKLDQLIEFYKKENMGLVTHLQYPVPLEEEDTGDDPEEDTVESVVSPPELPPRNIPLTASSCEAKEVPFSNENPRATETSRPSLSETLFQRLQSMDTSGLPEEHLKAIQDYLSTQLAQDSEFVKTGSSSLPHLKKLTTLLCKELYGEVIRTLPSLESLQRLFDQQLSPGLRPRPQVPGEANPINMVSKLSQLTSLLSSIEDKVKALLHEGPESPHRPSLIPPVTFEVKAESLGIPQKMQLKVDVESGKLIIKKSKDGSEDKFYSHKKILQLIKSQKFLNKLVILVETEKEKILRKEYVFADSKKREGFCQLLQQMKNKHSEQPEPDMITIFIGTWNMGNAPPPKKITSWFLSKGQGKTRDDSADYIPHDIYVIGTQEDPLSEKEWLEILKHSLQEITSVTFKTVAIHTLWNIRIVVLAKPEHENRISHICTDNVKTGIANTLGNKGAVGVSFMFNGTSLGFVNSHLTSGSEKKLRRNQNYMNILRFLALGDKKLSPFNITHRFTHLFWFGDLNYRVDLPTWEAETIIQKIKQQQYADLLSHDQLLTERREQKVFLHFEEEEITFAPTYRFERLTRDKYAYTKQKATGMKYNLPSWCDRVLWKSYPLVHVVCQSYGSTSDIMTSDHSPVFATFEAGVTSQFVSKNGPGTVDSQGQIEFLRCYATLKTKSQTKFYLEFHSSCLESFVKSQEGENEEGSEGELVVKFGETLPKLKPIISDPEYLLDQHILISIKSSDSDESYGEGCIALRLEATETQLPIYTPLTHHGELTGHFQGEIKLQTSQGKTREKLYDFVKTERDESSGPKTLKSLTSHDPMKQWEVTSRAPPCSGSSITEIINPNYMGVGPFGPPMPLHVKQTLSPDQQPTAWSYDQPPKDSPLGPCRGESPPTPPGQPPISPKKFLPSTANRGLPPRTQESRPSDLGKNAGDTLPQEDLPLTKPEMFENPLYGSLSSFPKPAPRKDQESPKMPRKEPPPCPEPGILSPSIVLTKAQEADRGEGPGKQVPAPRLRSFTCSSSAEGRAAGGDKSQGKPKTPVSSQAPVPAKRPIKPSRSEINQQTPPTPTPRPPLPVKSPAVLHLQHSKGRDYRDNTELPHHGKHRPEEGPPGPLGRTAMQ |
| 2756 | sp|O94901|SUN1\_HUMAN | MDFSRLHMYSPPQCVPENTGYTYALSSSYSSDALDFETEHKLDPVFDSPRMSRRSLRLATTACTLGDGEAVGADSGTSSAVSLKNRAARTTKQRRSTNKSAFSINHVSRQVTSSGVSHGGTVSLQDAVTRRPPVLDESWIREQTTVDHFWGLDDDGDLKGGNKAAIQGNGDVGAAAATAHNGFSCSNCSMLSERKDVLTAHPAAPGPVSRVYSRDRNQKCDDCKGKRHLDAHPGRAGTLWHIWACAGYFLLQILRRIGAVGQAVSRTAWSALWLAVVAPGKAASGVFWWLGIGWYQFVTLISWLNVFLLTRCLRNICKFLVLLIPLFLLLAGLSLRGQGNFFSFLPVLNWASMHRTQRVDDPQDVFKPTTSRLKQPLQGDSEAFPWHWMSGVEQQVASLSGQCHHHGENLRELTTLLQKLQARVDQMEGGAAGPSASVRDAVGQPPRETDFMAFHQEHEVRMSHLEDILGKLREKSEAIQKELEQTKQKTISAVGEQLLPTVEHLQLELDQLKSELSSWRHVKTGCETVDAVQERVDVQVREMVKLLFSEDQQGGSLEQLLQRFSSQFVSKGDLQTMLRDLQLQILRNVTHHVSVTKQLPTSEAVVSAVSEAGASGITEAQARAIVNSALKLYSQDKTGMVDFALESGGGSILSTRCSETYETKTALMSLFGIPLWYFSQSPRVVIQPDIYPGNCWAFKGSQGYLVVRLSMMIHPAAFTLEHIPKTLSPTGNISSAPKDFAVYGLENEYQEEGQLLGQFTYDQDGESLQMFQALKRPDDTAFQIVELRIFSNWGHPEYTCLYRFRVHGEPVK |
| 2757 | sp|P53599|SSK2\_YEAST | MSHSDYFNYKPYGDSTEKPSSSKMRQSSSSSSSRLRSESLGRNSNTTQARVASSPISPGLHSTQYFRSPNAVYSPGESPLNTVQLFNRLPGIPQGQFFHQNAISGSSSSSARSSRRPSNIGLPLPKNPQQSLPKLSTQPVPVHKKVEASKTESEIIKKPAPVNSNQDPLLTTPTLVISPELASLNTTNTSIMSTPQNITNQTSNKHIPTRSQPNGSTSSSTLQDIVTTNSSQRSVGHHGGSTTSLRTYKKQYVLNEQLYLRKMRNRANDDYYTRGIVASSNFEDDEENFSNKGEDDLELEMDDLLKVEGEDKDNDFNFGYNFITSSTKNNENVVSMSLNYLKGKLDWLRDVNNDQPCEIEDEEWHSILGSEDLLSKLLQNPMVNNRFEWQTMLSKVLKGDIVRNEKTKIANQGKGPGFNTQFSDDIWIELKAWMNGRTVEDQNKSLRIFRDSTDSVFQEIMAFKLEDNMSADEAAETIKSLVDKYYRVLNLWPNIKRMHAEKPITKTEAFRNRIDTLNSWLNFKFNFDTNIAYLKKWIVGNKELESTTEVDNTTVNLDDPAVFATNCKRFAEQIMKEKDIELIFQKKIFFPLAPWILKAKFFFLKYQKTWNELNLSYLDQDLEFLLMFPMRLVKDIILIRLSYAKKIQNPTLMMIDQMMDDFSTYIKLAVQMKFTVASYCNDWFFKVKIDPEFDHTVVEGLEYFFSILELRILYSGKNSFKTSKEPDLLLKYWEMFRNVGYYIDDAGELIAAEFTKLTLRLVHRLHAYLLRQQNTPPKLENEAAAEKWLVQIFEILGSMKRKLNRFTNILTKAFQNFVRYKIEDHNYLLKQLKETGHFLIYTGGYLEQNGTYLIGSPELLGCKDDDILRIIKNSDIGCDLVPKLEINNSLTIYNALDDNWNSNSSLGSDISNDGTPFYYIKNDLTTQPRSYNGNRVNREPDFENSRSTEEEFYELETRLNSLGYVLVLTPQEPLLWEGEMYNLSDNKTIKPEGLNLKVIPNSIDLMCQGSSYALEYQCDRFQQISGSSVSFLEKKSSSETVKNNLQRINKAYFRCTYSVLKNYTKIVTTFKKVSPVNDLLNNIFLFGRDFGLNFLRINVANNEKRSIIILLMMRLSIGWLKFLAEDCDPTDQRVFRWCVTSMEFAMHMVSGWNILALDECQFSSLKQKISECMSLLISHFDIIGARSIEVEKINQQARSNLDLEDVFDDDMMLQVNSEFRVQSIMELEERIKRNPHQTGKVIDDSDKGNKYLVSLASSISNVSMRWQKRNFIGGGTFGRVYSAVDLDNGEILAVKEINIQDSKSMQKIFPLIKEEMSVLEILNHPNIVSYYGVEVHRDKVNIFMEYCEGGSLAALLEHGRIEDEMVTQVYTLQLLEGLAYLHESGIVHRDVKPENILLDFNGVIKYVDFGAAKKIANNGTRLASMNKIENADGEHEDVTHVSDSKAVKNNENALLDMMGTPMYMAPESITGSTTKGKLGADDVWSLGCVVLEMITGRRPWANLDNEWAIMYHVAAGHTPQFPTKDEVSSAGMKFLERCLIQNPSKRASAVELLMDPWIVQIREIAFGDDSSSTDTEERE |
| 2758 | sp|Q62771|STA5A\_RAT | MAGWIQAQQLQGDALRQMQVLYGQHFPIEVRHYLAQWIESQPWDAIDLDNPQDRGQATQLLEGLVQELQKKAEHQVGEDGFVLKIKLGHYATQLQNTYDRCPMELVRCIRHILYNEQRLVREANNCSSPAGVLVDAMSQKHLQINQTFEELRLITQDTESELKKLQQTQEYFIIQYQESLRIQAQFGQLAQLNPQERMSRETALQQKQVSLETWLQREAQTLQQYRVELVEKHQKTLQLLRKQQTIILDDELIQWKRGQQLAGNGGPPEGSLDVLQSWCEKLAEIIWQNRQQIRRAEHLCQQLPIPGPVEEMLAEVNATITDIISALVTSTFIIEKQPPQVLKTQTKFAATVRLLVGGKLNVHMNPPQVKATIISEQQAKSLLKNENTRNDYSGEILNNCCVMEYHQATGTLSAHFRNMSLKRIKRADRRGAESVTEEKFTVLFESQFSVGSNELVFQVKTLSLPVVVIVHGSQDHNATATVLWDNAFAEPGRVPFAVPDKVLWPQLCEALNMKFKAEVQSNRGLTKENLVFLAQKLFNRRSNHLEDYNSMSVSWSQFNRENLPGWNYTFWQWFDGVMEVLKKHHKPHWNDGAILGFVNKQQAHDLLINKPDGTFLLRFSDSEIGGITIAWKFDSPDRNLWNLKPFTTRDFSIRSLADRLGDLNYLIYVFPDRPKDEVFAKYYTPVLAKAVDGYVKPQIKQVVPEFVNASADAGANATYMDQAPSPVVCPQAHYNMYPPNPDPVLDQDGEFDLDETMDVARHVEELLRRPMDSLDPRLSPPAGLFTSARSSLS |
| 2759 | sp|B8XX90|STING\_PIG | MPYSSLHPSIPQPRGLRAQVAALVLLGACLVALWGLGELPEYTLRWLVLHLASQQIGLLVKGLCSLAEELCHVHSRYQSSYWRAARACLGCPIRCGALLLLSCYFYFSIRDKAGLPLPWMLALLGLSQALNILLGLQHLAPAEVSAICEKRNFNVAHGLAWSYYIGYLRLILPGLRARIQAYNQRHKNVLGGIGNHRLHILFPLDCGVPDDLSVADPNIRFLHELPQQSADRAGIKGRVYTNSIYELLENGQPAGVCVLGYATPLQTLFAMSQDGRAGFSREDRLEQAKLFCRTLEDILADAPEAQNNCRLIVYQEPTEGGSFSLSQEILRHLRQEEREVTMGSAETSVVPTSSTLSQEPELLISGMEQPLPLRSDIF |
| 2760 | sp|Q9EPM5|SYNCI\_MOUSE | MASPEPLRGGDGARASREPHTEASFPLQESESPKEAKTFNPEATLSLEGTVNLEDILYLGASGDFEESFYEEEYEKPALTLFIDESRQPDEALGLEEPVRPEEMLSVEESVTPDEVQISEQPVEPAKSPTACEGEMVATEGSLPAQPIPNTEEDPLSVEDLERLEARFQQCVQAVSQLEEERDQLIHELVLLREPALQEVQQVHQDILAAYKLHAQAELERDGLREEIRTVKQKLFKVTKECVAYQYQLECRQQDVAQFADCREALTTRAAQLSEELTQLRDACQKQKEQLQQQLEAPPTQSDGHFLQESRRLSTQFENLMAESRQGLEEEYEPQLLRLLERKEAGTKALQDTQAEIQEMREALRPLEAEARQLQLQNRNLEDQITLVRQKRDEEVQQYREQLEEMEERQRQLRSGVQVQQQKNKEMERLRMSLAEELSTYKAMLPKSLEQADAPTSQAGGVEAQSPGTV |
| 2761 | sp|P07768|SUIS\_RABIT | MAKRKFSGLEITLIVLFVIVFIIAIALIAVLATKTPAVEEVNPSSSTPTTTSTTTSTSGSVSCPSELNEVVNERINCIPEQSPTQAICAQRNCCWRPWNNSDIPWCFFVDNHGYNVEGMTTTSTGLEARLNRKSTPTLFGNDINNVLLTTESQTANRLRFKLTDPNNKRYEVPHQFVTEFAGPAATETLYDVQVTENPFSIKVIRKSNNRILFDSSIGPLVYSDQYLQISTRLPSEYMYGFGEHVHKRFRHDLYWKTWPIFTRDQHTDDNNNNLYGHQTFFMCIEDTTGKSFGVFLMNSNAMEIFIQPTPIVTYRVIGGILDFYIFLGDTPEQVVQQYQELIGRPAMPAYWSLGFQLSRWNYNSLDVVKEVVRRNREALIPFDTQVSDIDYMEDKKDFTYDRVAYNGLPDFVQDLHDHGQKYVIILDPAISINRRASGEAYESYDRGNAQNVWVNESDGTTPIVGEVWPGDTVYPDFTSPNCIEWWANECNIFHQEVNYDGLWIDMNEVSSFVQGSNKGCNDNTLNYPPYIPDIVDKLMYSKTLCMDSVQYWGKQYDVHSLYGYSMAIATERAVERVFPNKRSFILTRSTFAGSGRHAAHWLGDNTATWEQMEWSITGMLEFGLFGMPLVGADICGFLAETTEELCRRWMQLGAFYPFSRNHNADGFEHQDPAFFGQDSLLVKSSRHYLNIRYTLLPFLYTLFYKAHAFGETVARPVLHEFYEDTNSWVEDREFLWGPALLITPVLTQGAETVSAYIPDAVWYDYETGAKRPWRKQRVEMSLPADKIGLHLRGGYIIPIQQPAVTTTASRMNPLGLIIALNDDNTAVGDFFWDDGETKDTVQNDNYILYTFAVSNNNLNITCTHELYSEGTTLAFQTIKILGVTETVTQVTVAENNQSMSTHSNFTYDPSNQVLLIENLNFNLGRNFRVQWDQTFLESEKITCYPDADIATQEKCTQRGCIWDTNTVNPRAPECYFPKTDNPYSVSSTQYSPTGITADLQLNPTRTRITLPSEPITNLRVEVKYHKNDMVQFKIFDPQNKRYEVPVPLDIPATPTSTQENRLYDVEIKENPFGIQIRRRSTGKVIWDSCLPGFAFNDQFIQISTRLPSEYIYGFGEAEHTAFKRDLNWHTWGMFTRDQPPGYKLNSYGFHPYYMALEDEGNAHGVLLLNSNAMDVTFMPTPALTYRVIGGILDFYMFLGPTPEVATQQYHEVIGHPVMPPYWSLGFQLCRYGYRNTSEIIELYEGMVAADIPYDVQYTDIDYMERQLDFTIDENFRELPQFVDRIRGEGMRYIIILDPAISGNETRPYPAFDRGEAKDVFVKWPNTSDICWAKVWPDLPNITIDESLTEDEAVNASRAHAAFPDFFRNSTAEWWTREILDFYNNYMKFDGLWIDMNEPSSFVNGTTTNVCRNTELNYPPYFPELTKRTDGLHFRTMCMETEHILSDGSSVLHYDVHNLYGWSQAKPTYDALQKTTGKRGIVISRSTYPTAGRWAGHWLGDNYARWDNMDKSIIGMMEFSLFGISYTGADICGFFNDSEYHLCTRWTQLGAFYPFARNHNIQFTRRQDPVSWNQTFVEMTRNVLNIRYTLLPYFYTQLHEIHAHGGTVIRPLMHEFFDDRTTWDIFLQFLWGPAFMVTPVLEPYTTVVRGYVPNARWFDYHTGEDIGIRGQVQDLTLLMNAINLHVRGGHILPCQEPARTTFLSRQKYMKLIVAADDNHMAQGSLFWDDGDTIDTYERDLYLSVQFNLNKTTLTSTLLKTGYINKTEIRLGYVHVWGIGNTLINEVNLMYNEINYPLIFNQTQAQEILNIDLTAHEVTLDDPIEISWS |
| 2762 | sp|Q9WVJ4|SYJ2B\_RAT | MNGRVDYLVSEEEINLTRGPSGLGFNIVGGTDQQYVSNDSGIYVSRIKEDGAAARDGRLQEGDKILSVNGQDLKNLLHQDAVDLFRNAGYAVSLRVQHRLPVQNGPIVHRGDGEPSGVPVAVVLLPVFALTLVAVWAFVRYRKQL |
| 2763 | sp|P0ABV6|TOLR\_ECOLI | MARARGRGRRDLKSEINIVPLLDVLLVLLLIFMATAPIITQSVEVDLPDATESQAVSSNDNPPVIVEVSGIGQYTVVVEKDRLERLPPEQVVAEVSSRFKANPKTVFLIGGAKDVPYDEIIKALNLLHSAGVKSVGLMTQPI |
| 2764 | sp|Q75Q41|TOM22\_RAT | MAAAVAAAGAGEPLSPEELVPKAEAEKAEEDLEEDDDDELDETLSERLWGLTEMFPERVRSAAGATFDLSLFVAQKMYRFSRAALWIGTTSFMILVLPVVFETEKLQMEQQQQLQQRQILLGPNTGLSGGMPGALPPLPGKI |
| 2765 | sp|Q9BYJ4|TRI34\_HUMAN | MASKILLNVQEEVTCPICLELLTEPLSLDCGHSLCRACITVSNKEAVTSMGGKSSCPVCGISYSFEHLQANQHLANIVERLKEVKLSPDNGKKRDLCDHHGEKLLLFCKEDRKVICWLCERSQEHRGHHTVLTEEVFKECQEKLQAVLKRLKKEEEEAEKLEADIREEKTSWKYQVQTERQRIQTEFDQLRSILNNEEQRELQRLEEEEKKTLDKFAEAEDELVQQKQLVRELISDVECRSQWSTMELLQDMSGIMKWSEIWRLKKPKMVSKKLKTVFHAPDLSRMLQMFRELTAVRCYWVDVTLNSVNLNLNLVLSEDQRQVISVPIWPFQCYNYGVLGSQYFSSGKHYWEVDVSKKTAWILGVYCRTYSRHMKYVVRRCANRQNLYTKYRPLFGYWVIGLQNKCKYGVFEESLSSDPEVLTLSMAVPPCRVGVFLDYEAGIVSFFNVTSHGSLIYKFSKCCFSQPVYPYFNPWNCPAPMTLCPPSS |
| 2766 | sp|P49334|TOM22\_YEAST | MVELTEIKDDVVQLDEPQFSRNQAIVEEKASATNNDVVDDEDDSDSDFEDEFDENETLLDRIVALKDIVPPGKRQTISNFFGFTSSFVRNAFTKSGNLAWTLTTTALLLGVPLSLSILAEQQLIEMEKTFDLQSDANNILAQGEKDAAATAN |
| 2767 | sp|Q95Q95|TOR\_CAEEL | MLQQHGISFQMNADRQNKAATTSNRIVSAPATNEFDERHRKQGIDAARALASQYRSRITENRDANQRQAARELSRYVRSELKDEPNTFSDAFLNAIDGRTDIASQSAIYNCMKSNSNIDQKRAGIYLIVCLAETHSGNVIRYANYLLKMLNNGNGLDEDTVKMASKALAFLIATCKSYAAELVDRCLDHCHEWLGQNVPHSQQPKNQQEIDQIRRLAASHLSRELALATPTAFFLRVNLFFKYIFNAVRDKNPAVRIAGIDALHVVLTIVSQREAKNKTEWFKKCFDEALEGQPNPSQKDDLDRWHAVALILNELLRISDQRFELIRCESSQFIKQKFLKEDEEEGVEWLVLTKQQTIVESVTARKLVLERFPKILDCVRQIIPLANKTSSTKQQSSIYLNTVLMQLLPRICAFPQCDRTFQTISFDTSFTILQRNAVAAPAIGMMMLSNPDVHATHIEKTISFISAAIKKTTNSDVLDNYFTFLFLFVDAYHEQVTTQIKAIIPQLMDITLSRSLANVLKMIMMRIPKLRLNVQDGVMASVYQTLTGSLIPPKSEPIGRPASPKAILQKAETDPKELQRIVLAVDVLGEFYFSRGALQRIMQYVADYYLTADNVEIRLAAVSSCCEMVVPFVGVYKKVTSDKRNSLLQTIYGVLRAVCSVIVNDQDVRVRMQVISCFGQMPRPFLAHLAQPEMLEVQFMALHDEKLEMQQACVTLLGRLAELNPALVLPRLRLMLLETLSQMQQSGQARLEQHSAKMIAQLAKQSPKFMRPYVGSLMIAMIPKLRNDQKYAEVTAQVLNAVSEIAVIGGAEIVKNLKPLFEKLTHMINDSSSLHKREAALRAIGGICRSTAYVVDPYRDYPSLLDDLLRILKTVMSNTMRREAIKTLGILGAIDPYTHKVFTGSVQSSTAISTALSLPISETDSKDPRQDIIHWFNYEKCTLEEFYPAITIANLMLMMQDEDSQSYAEIAQAIVTIFRSLGDMAPLYTEQVIPRLIEVCRRATESSNRANLREFFLQQLANFVAIIRKHAAPYMPAIFTIIADAWKEDISVKMVVIEVLTDMGTAIGNDFSKYTGELIPYLLTVLQTDKTKERVLTVKVMESIQKLTHCIVQHLHLVLPPLLIILDDFSLKLSIRNTALSTVLHMTQQVDVSAYAPRMMQSWHHNISTAEMRDKLLLLLIEIIKQLGKFFDIFKRGVDQKLRDYNLDKSVHYEQYRKLAQRAQMSRDVLTSSVFAGSNGNIQYSSTQAGMRGQANNVYANNDLHERLMNGSIDSGASRQDNRDDYYRYGVEEKKEVPKVAPTTARPTSELVTVQITKQRLNKDALMPQWKNENLTSKDEWLQWLMKIRIGFLTYGSSPSLRAASSLGDQHPHLARDLFPAAFMSVWTELDSDVQNDLTSCLLRAISTGIPELIQTILNLAEFMDHSEKGPLPISHDVLGRWAEQTKAFAKACRYKEMSVLKKSGSMQTTFTRKVKLEPNDCQSLITYANKLNVQEEAAGVVRYAERNEMNFQMRGRWYEKLNEWEKALGAYELEEKKKSSCPNLQVYDEKDHLMTPEEAATAEEARMHEMRCLEALGRWDELNSKSVVWADQRGNRNDSVRDEINKKQLDHKMAVIAARGAWAVDNWERMADYVSVISENTQDGAMLRAVVAVHNDENTKAMGLIEKVREMIDSELTAMANESYERAYIPMVSVQQMAELEEAIEYKTRPERRPRIALLWSRRLQGCRRNVEQWQRLIMLRGLVLSPQEMHPLRVKFSSMCRKQGKNSMSRAVLRELLSLPANSDLVRAKAPFDKPLLVLALAKQLYQDDHKDEAIRALEDLANHWNKRINPIPKATGRELIPPSTKEPARICAKVLLKLGEWTELKSKTSNNMQVGELSFVRQQVSPQYRTKESRTPETIAFENTINYYQQATQYDPGWHKVWHKLASTHFYAVCRERPHPTTVISPPQQPQQPKKMHIPPVTRATSPPPPAQKSPQPAPFHSITEPLSVIIDYPVPPPLGSLVGLPPMPAYLSSNSSLPPQHHHVSPLSNDSPSNSAENKLYLKHAAHAVRCFAKALMCSPGSRLEDTLRLMQLWFDHGDDKDQDVYFALTETIFDLPVTTWLEAIPQLMARLDCPDDQKSVQLVLRVLCEIARHRPQAVIYALTVASRSKDVHRSKNAGTVLEKMMEYHSKLVREASLVTEELVRCAILWHEQWHDALDDASRVYFHRRLQDNNVQAMFDALRNMNDLMQKGAPTTMKEHSFQQTYSSDLKEAGRYVQAFESSGNVKDLNQAWEIYCSVFKKLRDQLATLNSLDLVYVSPNLVSAKDLELVVPGTYDPSAPIVSIQSFSSKMNVITSKQRPRKMVIRGSNGLDYQFLLKGHEDPRQDERVMQLFGLVNTLLANNSETCRRNLTIQRYSIVALSKDSGLIGWVPNCDTLHTLVKEYREKKAKIPLSIEHKTLQKLSLETEHLTLMQKLQLFESALSVTQGEDLRHVLWLKSPSSEVWFDRRTNYTRSVACMSMVGYILGLGDRHPSNLMLDRLTGKVVHIDFGDCFEVAMLREKFPERVPFRLTRMLINAMEVTGLDGVYNYTAERVLKMLRTNQESLLAVLEAFVYDPVINWRLVEGMKKDPKTRKDTGGRQNMAGAVLPSSSTTDSIMETIKRKLDGTEFVHTDGSTPPEPLQVTEQLAMLTEQATSPLNLCQSYIGWCPFW |
| 2768 | sp|O94842|TOX4\_HUMAN | MEFPGGNDNYLTITGPSHPFLSGAETFHTPSLGDEEFEIPPISLDSDPSLAVSDVVGHFDDLADPSSSQDGSFSAQYGVQTLDMPVGMTHGLMEQGGGLLSGGLTMDLDHSIGTQYSANPPVTIDVPMTDMTSGLMGHSQLTTIDQSELSSQLGLSLGGGTILPPAQSPEDRLSTTPSPTSSLHEDGVEDFRRQLPSQKTVVVEAGKKQKAPKKRKKKDPNEPQKPVSAYALFFRDTQAAIKGQNPNATFGEVSKIVASMWDSLGEEQKQVYKRKTEAAKKEYLKALAAYKDNQECQATVETVELDPAPPSQTPSPPPMATVDPASPAPASIEPPALSPSIVVNSTLSSYVANQASSGAGGQPNITKLIITKQMLPSSITMSQGGMVTVIPATVVTSRGLQLGQTSTATIQPSQQAQIVTRSVLQAAAAAAAAASMQLPPPRLQPPPLQQMPQPPTQQQVTILQQPPPLQAMQQPPPQKVRINLQQQPPPLQIKSVPLPTLKMQTTLVPPTVESSPERPMNNSPEAHTVEAPSPETICEMITDVVPEVESPSQMDVELVSGSPVALSPQPRCVRSGCENPPIVSKDWDNEYCSNECVVKHCRDVFLAWVASRNSNTVVFVK |
| 2769 | sp|Q14142|TRI14\_HUMAN | MAGAATGSRTPGRSELVEGCGWRCPEHGDRVAELFCRRCRRCVCALCPVLGAHRGHPVGLALEAAVHVQKLSQECLKQLAIKKQQHIDNITQIEDATEKLKANAESSKTWLKGKFTELRLLLDEEEALAKKFIDKNTQLTLQVYREQADSCREQLDIMNDLSNRVWSISQEPDPVQRLQAYTATEQEMQQQMSLGELCHPVPLSFEPVKSFFKGLVEAVESTLQTPLDIRLKESINCQLSDPSSTKPGTLLKTSPSPERSLLLKYARTPTLDPDTMHARLRLSADRLTVRCGLLGSLGPVPVLRFDALWQVLARDCFATGRHYWEVDVQEAGAGWWVGAAYASLRRRGASAAARLGCNRQSWCLKRYDLEYWAFHDGQRSRLRPRDDLDRLGVFLDYEAGVLAFYDVTGGMSHLHTFRATFQEPLYPALRLWEGAISIPRLP |
| 2770 | sp|Q86UV6|TRI74\_HUMAN | MAWQVSLLELEDWLQCPICLEVFKESLMLQCGHSYCKGCLVSLSYHLDTKVRCPMCWQVVDGSSSLPNVSLAWVIEALRLPGDPEPKVCVHHRNPLSLFCEKDQELICGLCGLLGSHQHHPVTPVSTVCSRMKEELAALFSELKQEQKKVDELIAKLVKNRTRIVNESDVFSWVIRREFQELRHPVDEEKARCLEGIGGHTRGLVASLDMQLEQAQGTRERLAQAECVLEQFGNEDHHEFIWKFHSMASR |
| 2771 | sp|O43715|TRIA1\_HUMAN | MNSVGEACTDMKREYDQCFNRWFAEKFLKGDSSGDPCTDLFKRYQQCVQKAIKEKEIPIEGLEFMGHGKEKPENSS |
| 2772 | sp|Q8BGE7|TRIM6\_MOUSE | MTSTVLVDIRDEVTCPICLELLTEPLSIDCGHSFCQVCIIGNSNNSVFGQGGRSSCPVCRTSYQPGNLRPNRHLAAIVKRLREVALCPGKQLEVIFCALHGEKLQLFCKEDGKLICWLCERSQEHRGHHTFLMEEVAQEYQDMFQESLKKLRREQQEAEKLKALIQEKRESWKSQVEPEKRRIQTEFKQLRSILDREEQRELKKLEVEERKGLSIIEKAEGDLIHQSQSLKDLISDLEHRCQGSTVELLQDVGDVTKRSEFWTLRKPQALPTKLKSLFRAPDLRKMLKVFRELTDVQSYWVDVTLNPQTANLNLVLSKNRRQVRFVGAQLSEPSSLEEHYDCSVLGSQHFSSGKYYWEVDVSKKTAWILGVCSTPVDPMFSFSQYSSKQGAYSRYQPQCGYWVIGLQCKHEYRAYEDSSPSLLLSMTVPPRRIGIFLDCEAGTVSFYNVTNHGLPIYTFSKYYFPSALCPYFNPCSCIVPMTLRRPTS |
| 2773 | sp|Q12974|TP4A2\_HUMAN | MNRPAPVEISYENMRFLITHNPTNATLNKFTEELKKYGVTTLVRVCDATYDKAPVEKEGIHVLDWPFDDGAPPPNQIVDDWLNLLKTKFREEPGCCVAVHCVAGLGRAPVLVALALIECGMKYEDAVQFIRQKRRGAFNSKQLLYLEKYRPKMRLRFRDTNGHCCVQ |
| 2774 | sp|Q06418|TYRO3\_HUMAN | MALRRSMGRPGLPPLPLPPPPRLGLLLAALASLLLPESAAAGLKLMGAPVKLTVSQGQPVKLNCSVEGMEEPDIQWVKDGAVVQNLDQLYIPVSEQHWIGFLSLKSVERSDAGRYWCQVEDGGETEISQPVWLTVEGVPFFTVEPKDLAVPPNAPFQLSCEAVGPPEPVTIVWWRGTTKIGGPAPSPSVLNVTGVTQSTMFSCEAHNLKGLASSRTATVHLQALPAAPFNITVTKLSSSNASVAWMPGADGRALLQSCTVQVTQAPGGWEVLAVVVPVPPFTCLLRDLVPATNYSLRVRCANALGPSPYADWVPFQTKGLAPASAPQNLHAIRTDSGLILEWEEVIPEAPLEGPLGPYKLSWVQDNGTQDELTVEGTRANLTGWDPQKDLIVRVCVSNAVGCGPWSQPLVVSSHDRAGQQGPPHSRTSWVPVVLGVLTALVTAAALALILLRKRRKETRFGQAFDSVMARGEPAVHFRAARSFNRERPERIEATLDSLGISDELKEKLEDVLIPEQQFTLGRMLGKGEFGSVREAQLKQEDGSFVKVAVKMLKADIIASSDIEEFLREAACMKEFDHPHVAKLVGVSLRSRAKGRLPIPMVILPFMKHGDLHAFLLASRIGENPFNLPLQTLIRFMVDIACGMEYLSSRNFIHRDLAARNCMLAEDMTVCVADFGLSRKIYSGDYYRQGCASKLPVKWLALESLADNLYTVQSDVWAFGVTMWEIMTRGQTPYAGIENAEIYNYLIGGNRLKQPPECMEDVYDLMYQCWSADPKQRPSFTCLRMELENILGQLSVLSASQDPLYINIERAEEPTAGGSLELPGRDQPYSGAGDGSGMGAVGGTPSDCRYILTPGGLAEQPGQAEHQPESPLNETQRLLLLQQGLLPHSSC |
| 2775 | sp|Q15672|TWST1\_HUMAN | MMQDVSSSPVSPADDSLSNSEEEPDRQQPPSGKRGGRKRRSSRRSAGGGAGPGGAAGGGVGGGDEPGSPAQGKRGKKSAGCGGGGGAGGGGGSSSGGGSPQSYEELQTQRVMANVRERQRTQSLNEAFAALRKIIPTLPSDKLSKIQTLKLAARYIDFLYQVLQSDELDSKMASCSYVAHERLSYAFSVWRMEGAWSMSASH |
| 2776 | sp|Q924B5|TX101\_RAT | MGACRIQYILLVFLLIASHWTLVQNIYCEVSRTLSLEDNPSGTFNWTSKAEKCNPGEFCQETVLLIKAEGTKTAILASKSCVPQGAETMTFVQYTAPPGLVAISYSNYCNDSLCNNRNNLASILQAPEPTATSNMSGARHCPTCLALEPCSSAPSMPCANGTTQCYHGKIELSGGGMDSVVHVKGCTTAIGCRLMAKMESVGPMTVKETCSYQSFLHPRMAEIGASWMPTSLWVLELLLPALSLPLIYFP |
| 2777 | sp|P14679|TYRO\_HUMAN | MLLAVLYCLLWSFQTSAGHFPRACVSSKNLMEKECCPPWSGDRSPCGQLSGRGSCQNILLSNAPLGPQFPFTGVDDRESWPSVFYNRTCQCSGNFMGFNCGNCKFGFWGPNCTERRLLVRRNIFDLSAPEKDKFFAYLTLAKHTISSDYVIPIGTYGQMKNGSTPMFNDINIYDLFVWMHYYVSMDALLGGSEIWRDIDFAHEAPAFLPWHRLFLLRWEQEIQKLTGDENFTIPYWDWRDAEKCDICTDEYMGGQHPTNPNLLSPASFFSSWQIVCSRLEEYNSHQSLCNGTPEGPLRRNPGNHDKSRTPRLPSSADVEFCLSLTQYESGSMDKAANFSFRNTLEGFASPLTGIADASQSSMHNALHIYMNGTMSQVQGSANDPIFLLHHAFVDSIFEQWLRRHRPLQEVYPEANAPIGHNRESYMVPFIPLYRNGDFFISSKDLGYDYSYLQDSDPDSFQDYIKSYLEQASRIWSWLLGAAMVGAVLTALLAGLVSLLCRHKRKQLPEEKQPLLMEKEDYHSLYQSHL |
| 2778 | sp|P50607|TUB\_HUMAN | MTSKPHSDWIPYSVLDDEGRNLRQQKLDRQRALLEQKQKKKRQEPLMVQANADGRPRSRRARQSEEQAPLVESYLSSSGSTSYQVQEADSLASVQLGATRPTAPASAKRTKAAATAGGQGGAARKEKKGKHKGTSGPAALAEDKSEAQGPVQILTVGQSDHAQDAGETAAGGGERPSGQDLRATMQRKGISSSMSFDEDEEDEEENSSSSSQLNSNTRPSSATSRKSVREAASAPSPTAPEQPVDVEVQDLEEFALRPAPQGITIKCRITRDKKGMDRGMYPTYFLHLDREDGKKVFLLAGRKRKKSKTSNYLISVDPTDLSRGGDSYIGKLRSNLMGTKFTVYDNGVNPQKASSSTLESGTLRQELAAVCYETNVLGFKGPRKMSVIVPGMNMVHERVSIRPRNEHETLLARWQNKNTESIIELQNKTPVWNDDTQSYVLNFHGRVTQASVKNFQIIHGNDPDYIVMQFGRVAEDVFTMDYNYPLCALQAFAIALSSFDSKLACE |
| 2779 | sp|O48676|U74B1\_ARATH | MAETTPKVKGHVVILPYPVQGHLNPMVQFAKRLVSKNVKVTIATTTYTASSITTPSLSVEPISDGFDFIPIGIPGFSVDTYSESFKLNGSETLTLLIEKFKSTDSPIDCLIYDSFLPWGLEVARSMELSAASFFTNNLTVCSVLRKFSNGDFPLPADPNSAPFRIRGLPSLSYDELPSFVGRHWLTHPEHGRVLLNQFPNHENADWLFVNGFEGLEETQDCENGESDAMKATLIGPMIPSAYLDDRMEDDKDYGASLLKPISKECMEWLETKQAQSVAFVSFGSFGILFEKQLAEVAIALQESDLNFLWVIKEAHIAKLPEGFVESTKDRALLVSWCNQLEVLAHESIGCFLTHCGWNSTLEGLSLGVPMVGVPQWSDQMNDAKFVEEVWKVGYRAKEEAGEVIVKSEELVRCLKGVMEGESSVKIRESSKKWKDLAVKAMSEGGSSDRSINEFIESLGK |
| 2780 | sp|Q0MVP0|TYRO\_PELES | MESTTVLLAASTLLLVLHASYGQFPRACSTAQVLLSKECCPVWPGDNSSCGEVSGRGVCQDVVPSNSPVGAQFPFSGIDDRENWPIVFYNRTCQCQGNFMGYNCGECRFGYTGPNCTVRRNMIRKEIFRMTTAEKDKFIAYLNLAKRTISQDYVISTGTYEQMNNGSNPMFADINVYDLFVWLHYYASRDAFLEDGSVWANIDFAHEAPGFPPWHRFFLLLWEREIQKVAADDNFTIPFWDWRDAQQCDLCTDEFFGGTHPTSNNLLSPASFFSSWQVICSQPEEYNRLRIICNGTNEGPLLRSPGRHDRNRTPRLPTSADVEACLSLTDYETGAMDRFANFSFRNTLEGYAVPASGIANRSQSNMHNSLHVFMNGSMSNVQGSANDPIFVLHHAFVDSLFEQWLRRHQPSLDVYPEANAPVGHNREYNMVPFIPLFTNGEFFVQSRDLGYDYDYLAESGSIEDFLLPYLEQARQIWQWLLGAAVVGGLVTAVIATIISLTCRRKRRTKTSEETRPLLMEAEDYHATYQSNL |
| 2781 | sp|Q9FJA2|TT2\_ARATH | MGKRATTSVRREELNRGAWTDHEDKILRDYITTHGEGKWSTLPNQAGLKRCGKSCRLRWKNYLRPGIKRGNISSDEEELIIRLHNLLGNRWSLIAGRLPGRTDNEIKNHWNSNLRKRLPKTQTKQPKRIKHSTNNENNVCVIRTKAIRCSKTLLFSDLSLQKKSSTSPLPLKEQEMDQGGSSLMGDLEFDFDRIHSEFHFPDLMDFDGLDCGNVTSLVSSNEILGELVPAQGNLDLNRPFTSCHHRGDDEDWLRDFTC |
| 2782 | sp|P33981|TTK\_HUMAN | MESEDLSGRELTIDSIMNKVRDIKNKFKNEDLTDELSLNKISADTTDNSGTVNQIMMMANNPEDWLSLLLKLEKNSVPLSDALLNKLIGRYSQAIEALPPDKYGQNESFARIQVRFAELKAIQEPDDARDYFQMARANCKKFAFVHISFAQFELSQGNVKKSKQLLQKAVERGAVPLEMLEIALRNLNLQKKQLLSEEEKKNLSASTVLTAQESFSGSLGHLQNRNNSCDSRGQTTKARFLYGENMPPQDAEIGYRNSLRQTNKTKQSCPFGRVPVNLLNSPDCDVKTDDSVVPCFMKRQTSRSECRDLVVPGSKPSGNDSCELRNLKSVQNSHFKEPLVSDEKSSELIITDSITLKNKTESSLLAKLEETKEYQEPEVPESNQKQWQSKRKSECINQNPAASSNHWQIPELARKVNTEQKHTTFEQPVFSVSKQSPPISTSKWFDPKSICKTPSSNTLDDYMSCFRTPVVKNDFPPACQLSTPYGQPACFQQQQHQILATPLQNLQVLASSSANECISVKGRIYSILKQIGSGGSSKVFQVLNEKKQIYAIKYVNLEEADNQTLDSYRNEIAYLNKLQQHSDKIIRLYDYEITDQYIYMVMECGNIDLNSWLKKKKSIDPWERKSYWKNMLEAVHTIHQHGIVHSDLKPANFLIVDGMLKLIDFGIANQMQPDTTSVVKDSQVGTVNYMPPEAIKDMSSSRENGKSKSKISPKSDVWSLGCILYYMTYGKTPFQQIINQISKLHAIIDPNHEIEFPDIPEKDLQDVLKCCLKRDPKQRISIPELLAHPYVQIQTHPVNQMAKGTTEEMKYVLGQLVGLNSPNSILKAAKTLYEHYSGGESHNSSSSKTFEKKRGKK |
| 2783 | sp|P25490|TYY1\_HUMAN | MASGDTLYIATDGSEMPAEIVELHEIEVETIPVETIETTVVGEEEEEDDDDEDGGGGDHGGGGGHGHAGHHHHHHHHHHHPPMIALQPLVTDDPTQVHHHQEVILVQTREEVVGGDDSDGLRAEDGFEDQILIPVPAPAGGDDDYIEQTLVTVAAAGKSGGGGSSSSGGGRVKKGGGKKSGKKSYLSGGAGAAGGGGADPGNKKWEQKQVQIKTLEGEFSVTMWSSDEKKDIDHETVVEEQIIGENSPPDYSEYMTGKKLPPGGIPGIDLSDPKQLAEFARMKPRKIKEDDAPRTIACPHKGCTKMFRDNSAMRKHLHTHGPRVHVCAECGKAFVESSKLKRHQLVHTGEKPFQCTFEGCGKRFSLDFNLRTHVRIHTGDRPYVCPFDGCNKKFAQSTNLKSHILTHAKAKNNQ |
| 2784 | sp|P35443|TSP4\_HUMAN | MLAPRGAAVLLLHLVLQRWLAAGAQATPQVFDLLPSSSQRLNPGALLPVLTDPALNDLYVISTFKLQTKSSATIFGLYSSTDNSKYFEFTVMGRLNKAILRYLKNDGKVHLVVFNNLQLADGRRHRILLRLSNLQRGAGSLELYLDCIQVDSVHNLPRAFAGPSQKPETIELRTFQRKPQDFLEELKLVVRGSLFQVASLQDCFLQQSEPLAATGTGDFNRQFLGQMTQLNQLLGEVKDLLRQQVKETSFLRNTIAECQACGPLKFQSPTPSTVVPPAPPAPPTRPPRRCDSNPCFRGVQCTDSRDGFQCGPCPEGYTGNGITCIDVDECKYHPCYPGVHCINLSPGFRCDACPVGFTGPMVQGVGISFAKSNKQVCTDIDECRNGACVPNSICVNTLGSYRCGPCKPGYTGDQIRGCKAERNCRNPELNPCSVNAQCIEERQGDVTCVCGVGWAGDGYICGKDVDIDSYPDEELPCSARNCKKDNCKYVPNSGQEDADRDGIGDACDEDADGDGILNEQDNCVLIHNVDQRNSDKDIFGDACDNCLSVLNNDQKDTDGDGRGDACDDDMDGDGIKNILDNCPKFPNRDQRDKDGDGVGDACDSCPDVSNPNQSDVDNDLVGDSCDTNQDSDGDGHQDSTDNCPTVINSAQLDTDKDGIGDECDDDDDNDGIPDLVPPGPDNCRLVPNPAQEDSNSDGVGDICESDFDQDQVIDRIDVCPENAEVTLTDFRAYQTVVLDPEGDAQIDPNWVVLNQGMEIVQTMNSDPGLAVGYTAFNGVDFEGTFHVNTQTDDDYAGFIFGYQDSSSFYVVMWKQTEQTYWQATPFRAVAEPGIQLKAVKSKTGPGEHLRNSLWHTGDTSDQVRLLWKDSRNVGWKDKVSYRWFLQHRPQVGYIRVRFYEGSELVADSGVTIDTTMRGGRLGVFCFSQENIIWSNLKYRCNDTIPEDFQEFQTQNFDRFDN |
| 2785 | sp|P0CG53|UBB\_BOVIN | MQIFVKTLTGKTITLEVEPSDTIENVKAKIQDKEGIPPDQQRLIFAGKQLEDGRTLSDYNIQKESTLHLVLRLRGGMQIFVKTLTGKTITLEVEPSDTIENVKAKIQDKEGIPPDQQRLIFAGKQLEDGRTLSDYNIQKESTLHLVLRLRGGMQIFVKTLTGKTITLEVEPSDTIENVKAKIQDKEGIPPDQQRLIFAGKQLEDGRTLSDYNIQKESTLHLVLRLRGGMQIFVKTLTGKTITLEVEPSDTIENVKAKIQDKEGIPPDQQRLIFAGKQLEDGRTLSDYNIQKESTLHLVLRLRGGC |
| 2786 | sp|P02766|TTHY\_HUMAN | MASHRLLLLCLAGLVFVSEAGPTGTGESKCPLMVKVLDAVRGSPAINVAVHVFRKAADDTWEPFASGKTSESGELHGLTTEEEFVEGIYKVEIDTKSYWKALGISPFHEHAEVVFTANDSGPRRYTIAALLSPYSYSTTAVVTNPKE |
| 2787 | sp|P0DN76|U2AF5\_HUMAN | MAEYLASIFGTEKDKVNCSFYFKIGACRHGDRCSRLHNKPTFSQTIALLNIYRNPQNSSQSADGLRCAVSDVEMQEHYDEFFEEVFTEMEEKYGEVEEMNVCDNLGDHLVGNVYVKFRREEDAEKAVIDLNNRWFNGQPIHAELSPVTDFREACCRQYEMGECTRGGFCNFMHLKPISRELRRELYGRRRKKHRSRSRSRERRSRSRDRGRGGGGGGGGGGGGRERDRRRSRDRERSGRF |
| 2788 | sp|G4SLH0|TTN1\_CAEEL | MEGNEKKGGGLPPTQQRHLNIDTTVGGSISQPVSPSMSYSTDRETVMRSASGHATVAETHLIRSIGSQSQSYTEEHWSSEITSFVALAPPKFIQVIKAYRVHSTDTISLVVEVASDPPAIFEWFYNEKSVLQDRDRFQVGHGINISRLKVSRPEQGVYKCVTRNPAGVSTSYGYITVNADREHLSSSKEDMRLQRQHSVTYHQAPRFLTQVPNLFVTAGSNVIIDVEVDANPPARFSWFVNGKEYRDSIHGVEMFSPDVNRSVVRFSIPVAGEYKVVASNVHGSAMSCGHVDIQKVIELEESTLTTSTTAFDPMTTSMRALGNNGRNSRQAVNMFELNYTQRSSSVPRGVRHLESHIEVSNMTGEEKKTQQQTRTDAASIVESRFHPQPPKPPRAGTSRRFLPEPPKFVTTLPSVITVNAEEKLVLSVDVQAIPAAEFAWHVNGFEVKKSQSVVLLDEHNKSTLVLHPPVKQGKYKVTARNDVGSDSVTTQVTRIGEVKDGAGSEPPDIVESAVTVTCSHEEDVGSHSSLQTVRRIQEMQEEDEVDPIKPFIEATSPKVKESVEHPFANILNPKKREERLSPSGKGKHLLFAPRITAHPSESVFKILDGSPLKLRVMASSLPPATFLWMLNNFELRSNQNVTIRNDEENSSEIEFQKAPNGNVTVSAKNHLGEDRWTGKVILQYESPPPGQKITTIEKVTESWTLEEAVITQVVPTAADPGDRIVIIVRFDENKTSNCQFNWTINGVNIEKLEENLVAVESTEFESSLIVEKLEEQLCGEVVCVVKNQHGEVFSSSAHLRIRDDDSSFEIVPPNLPEECAPKIVEPLHSASFLDGQAMSLRCKITANPSAAVVWSKDDVNVEDWVLNKDVTTTVLDGGVCELLNPECFAEDAGLYKCTATNPHGTAETAAFINVEGAEYIKDHEEAEISESVLTDDVHIILPPKFIETLTAETDNFQQLGYVRMVATVRSVAPITVSWQKDGMDIYENEKYEVMQFADGAQILTIRAPTNLDSGVYTCTAESEHGVSNSSCQVELTISAESSPESFEKVEITPPEEVKETGIDDDIEVILKEEVSGTAQIEKREEEFKLLVKVADQVASTLVANVFLEAVHEAVKKIVETEDEEEDNQIEATQEPRFETSTDEYHVKENGTIKMAATISGHPTPFLEWYFGEEKLQVSQNVSMYYEAGTSAIILKNVQKRQGGNYFLRAHNCHGESILPMKLTVDPIEAVTHVLETSIPKVVVEQDAKEEEVRRAAEIISEQFAQLWVQDAQTEAVSAQAHQTPVVAEQASEEPTLPEVVAALQEQKPSVEKAPQPQFEVLETEDQDVVEQMQKQLPPVQKSMSVQEEKASSQRTPSPMNYEDKVKTIQSNLLRVNSHEAMEPIEATNLLLNTALQLKNEHVCDETTTVIVTQQPQKYDQLVTVVESNIEYHALRLSTSSSSPLKFIDLETIIQKPSTSCESIDRMFVEKSKRTANAQHRIVVLQGMSNTFHNAITWSLKKVKKLVGDAEAKAYADVEVVKQDETNEQVMTIIDNDTIVPQLLQVAAAANKLKLENVSVALIKEGDRAHQELVIEYESSIDEPMFEPVHNTSHLTFHQQQPTGPDQHVWSRRSKFEEDEAHVVAVFVEVDANCPDQSVEIVATVNAAYEGDNRQGIEDEPFTEVSQSLATESSAAPQAPKFLRKLVNCFGRIGEPVQLKCLIAGMPQPEIEWTVDGDPIVPNDEYSIVYEDGVCILRIESTLIEDEGEYCCTASNVAGTTFSKCYLKLSEADDDAVDLLRQLSEIKIIDPTLSTGYPMSMISDEENTSHQLLSNVLLTDKEVPITATYNEDLSRAESFRRFFESAETTVKVTELYQGESVEAQFQQPEKREQVSTSNTDVMFVNQKVDVMESTVSTVGNAVRQSVSSSTNSWDYMFNDPFPESQEINVIENELYEPRVPLLPQKLSYKGQEIFANTNTVERNSKAGAKAKGEVENLKKCVETLLLFDAEMDMKDIKESSPKKEIISKKDQQSLDDQIKVTQQILKDVERDLNKMERTSPGKSLSPNKRTFAPKDVEDIEAAIFSISDQLADRQSSEEALREALQEMILSNSSPMKELSRNNETSKPEVLKSEIQKIPEVETKISEVYPIVKLKQAISAIENSLLEDTEVTEIMKRKGSDKDKRKATRIKRVPSAHSARITPITSNLRDRLNQLHQLTVSEDSGSLKQNEEAKEIQELFVKIEKEINTIAELCKEKMTKKGADTVTHVLNSVLQHVASIINVILVAQDHQPIEVHAETTKTAEVSVWYSFDVHPESEDIIGIVDEEPTNRRPSSTPRGSTRSSNLTTSQDSQATTKMTVSSEDTIEAPIAPPRKGRSLSRDAERLLEIQPRAPPRRSRQSGDTLSPEPTPVLTLVKSDETPAPVRPPRSRSRHSGDELAETSPEAQPIRPPRSHSRHSGDELEEVQPVRPPRSKSKTADANCLQIESMDESQYSLSCIHIQKTNFAFTNSTHETSNASVVVDLRNMAQLECTVQSLDDLASIQMLCEESDYPSDTDRSLLLAGTVRYFNRASPSLHEVSPSLNMESVSMDLKPETEPEEIVQDVYVNVELHSVPSLSSLVEVNPNTLMQTLASEKSSLKAAEEDEKEGEEEGEEEVTADVSFIGRSVLSTETLDVVLEEKDMSQMNSTLPLDYERAFSSNTIRETDILSDESITVDSSYHKSPEPTVDFARSQVKSEEVTENFSLIHKPARRRVTGIVVNSLIYTIAANIAEDNTFDVDVVQEPQRYNISIKVIEDIVDFTSLTIMSDCEDDPPADVLVLKQDTSKLQALSYDDISVATTRTGITVSIVARSLNDGIYASLEEIAWGEVEMTVPDIMQMSTEEKSSLQFNVTVSESNLEEAKSLKSQVSFRSSQNSVSEMDNTISSTATISIPSYVVKLESTATITCELNNYLPKNCTIDWYCGKTKIIIDHEQFDRISHDLLEVLIIRSVEAINGNLYSLKINEDLFPVAYLIVENTNLTTSANILTRPETQFVMEGQPTVITVELDDPNVIVNWLKDRRPLHENERIRLETDGQGNHRVIIPNTCVGDQGTYLALTSSESVAITLVVEERIEEKEVMVIASGTESEEDDVQEYLVPPGSTATIACELEECELKRSIRWLRDGKDIRFEQGKTEHVQNGLKHYLVVHDATSLDSGLYKTERSEEQCEETIIPRGVVATIQCQTSEPQESIQWSKDGNIIPSDISRFEFRSLDNNQSHEMVISNISWSDAGVYSVLINGKSSFVSKIVVVESELITQSVEEEPEAEPEIDVSLHIVESEQIIELNVPQSPKLGASHETLVPIGQDDIEVIDKQEAAPVVESIEETSSIGSEEFEIIEKFTEEEVPKVAEPSEPTQADVPKIAAPLEQSQIQQEVPTVAAPSEPTQADVPKEAAPSEPSQADVPKVAAPLEQTQIQQEVPMVAAPLEPTQADVPKVAAPLEQSQIQQEVPTVAAPSEPTQADVPKEAAPSEPSQADVPKVAAPLEQTQIQQEVPMVAAPLEPIQEEVPKEAAPSEPTQEDVPKGAAPLEPTQEDVPKEAAPSGPTQEDVPKEEAPSEPTQEDVPKEAAPSEPTQENVPKEAAPSEPTKDVPKEAAPSEPIQEEVPKEATLSEPTQEQSEVSKRSEPVEPTQIQQAASEEETPLEETNETVVQTNEDVKEAEVPENAEAQKVVDSSDLQVAASEIAHLAIDEAVLETSNQPSQFDSLQEQKPSVVHENEHVRSVCVDLTFSRDSEQIVSDVIVAEVGYDEDECSTIADTITSLSSSPLYTAPVFTERLPSSACFANSKLTLEVMFSGVPQPTISWLIDDHELVSDGERISIKCENGVSAIRFFNVDRNAGGFLKCRATNCAGQVETSCEIVAADEISVISDSSITSSTRPHFVVPLPERVTHTVNDHITIKCKFSGQPLPAAMWEKDGVLLDLQKYQVTTEDGTSILKIESASLDDKAVYTCTIANEAGCESTSCTIDVVDDHLGLQQTGLHVMCERDQNDVELDILVQSPNHLGVTFNFPPVNRTLARQPPYFLLPLSDKVVIDEKCTLKCVVMGIPLVIVKWIVDGVVVTEDDNHEIHFEDGIALLRMKNIKKDKSVVQCEAINCKGKVTTSCVLTKCGVEESEAGDLQKPSFVLSLKDTCTTTDHATLKCIVVGTPLPDVSCSFNGVTDNSKIRSEDGIVLIQVNDVTEEGIVVECTISNETGSSTSNCVVKIIKQEEKNYQRPIIVFNQAGSVNNERELSVKVGVIASPEPTLFWKHNGKSIEEGGDYYLIFEDGIGILKVFNIQDGSHEFTCIAKNEYGQTTVEIPVEIGLKTENKLTLVKTLNDIAVVDDIVQLKIVAEGDLPIEFKWFEDGQILEDDSSHKITVDKCISTLQLKLEETGTRIITCEVSNSSSKVNASCNVERVHNTVSDFVMTNDNSTRFLAVGRKCTRERNNTILKAVVVARENIGDICEIDGEKIPDAYIEGNSLSIKVDTLSKKLSNVSFKVSASEGKVFETRKIEIAQEDTDEENFEINYSLRIDEQSGNTTYTFENSELYQGNQSRELDNTERNFTVNKEKDESKKPSEVQPAEIVEQKDVPVQETSAPTVEKLAPVESKETPEVQAAEIVEQKDVPVPETRAPTVEPTVEKHTPVDSKETSEVEPAEIVEQKDVPVPETSAPTVEPTVEKHTPVESKEKSEVQPAEIVEQKDVTCEEEIKELLTEVEVELFFSQAEVFSGLELDLLMECSEYVTTSIQKGSTAAPAQEPTVEKLAPVESKETSEVEPAEIVEQKDVPVPETSAPSVEPTVEKLAPVESKETSEVQQAEIVEQKDVPVPETSAPSVEPTVEKLAPAESKETSEVQPAEIVEQKDVTCEEEIKELLTEVEVELFFSQAEVFSGLELDLLMECSEYVTTSIQKGSTAAPAQEPTVEKLAPVESKETSEVQQAEIIEQKDVPVPETSAPTVEPTVEKLKPVESKETSEVQQVEIIEQKDVPVPETSAPTVEPTVEKLAPVESKETSEVQQAEIIEQKDVPVPETSAPTVEPTVEKLKPVESKETSEVQQVEIIEQKDVPVPETSAPTVEPTVEKLAPVESKETSEVQQAEIIEQKDVPVPETSAPTVEPTVEKLKPVESKETSEVQQVEIIEQKDVPVPETSAPTVEPTVEKHAPVESKETSEVQPAEIVEQKVVPVPETSAPTVEPTVEKLAPVESKETPEVQPAEILEQKDVTCEEEIKELLTEVEVELFFSKAEVFSGLELDLLMECSEYVTTSIQKGSTAAPAQEPTVEKLAPVESKETSEVEPAEIVEQKDVPVPETSAPTVEPTVEKLKSVESKETSEVQQAEIIEQKDVPVPETSAPTVEPTVEKLAPVDSKETSEVEPAEIVEQKDVTCEEEIKELLTEVEVELLFSQAEVFSGLELDLLMECSEYVTTSIQKGSTAAPAQEPTVEKLAPVESKETSEVEPAEIVEQKDVPVPETSAPTVEPTVEKLKSVESKETSEVQQAEIIEQKDVPVPETSAPTVEPTVEKHAPVESKETSEVQPAEIVEQKVVPVPETSAPTVEPTVEKLAPVESKETSEVEPAEIVEQKDVPVPETSAPTVEPTVEKLAPVESKETSEVEPAEIVEQKDVPVPETSAPTVEPTIEKLAPVESKETSEVEPAEIVEQKDVSVPETSAPTVEPTIEKLAPVESKETSEVEPAEIVEQKDVSVPETSAPTVEPTVEKLAPVESKETSEVEPAEIVEQKDVPVPETSAPTVEPTVEKLAPVESKETSEVQPAEIVEHKDVQVPETSSPTVEPTVEKLAPVESKETSEVEPAEIVEQKDVPVPETSAPTVEPTVEKLAPVESKETSEVEPAEIVEQKDVPVPETSAPTVEPTVEKLAPVESKETSEVQPAEIVEQKDVSVPETSAPTVEPTVEKLAPVESKETSEVQPAEIVEQKDVPVPETSAPTVEPTVEKLAPVESKETSEVQPAEIVEHKDVQVPETSSPTVEPTVEKLAPVESKETSEVEPAEIVEQKDVPVPETSAPTVEPTVEKLAPVESKETSEVQPAEIVEHKDVQVPETSAPTVEPTIEKLAPVESKETSEVEPAEIVEQKDVSVPETSAPTVEPTIEKLAPVESKETSEVQPAEIVEHKDVQVPETSSPTVEPTVEKLAPVESKETSEVQPAEIVEQKDVTCEEEIKELLTEVEVELFFSQAEVFSGLELDLLMECSEYVTTSIQKGSTAAPAHEPTVEKLAPVESKETSEVEPAEIVEQKDVPVPETSAPTVEPTVEKLAPVESKETSEVEPAEIVEQKDLPVPETSAPTVEPTVEKLAPVESKKTSEVEPAEIVEQKDVPVPETSAPTVEPTVEKLAPVESKETSEVEPAEIVEQKDVPVPETSAPTVEPTVEKLAPVESKETSEVEPAEIVEQKDVPVPETSAPTVEPTIEKLAPVESKETSEVEPAEIVEQKDVSVPETSAPTVEPTIEKLAPVESKETSEVEPAEIVEQKDVSVPETSAPTVEPTVEKLAPVESKETSEVEPAEIVEQKDVPVPETSAPTVEPTVEKLAPVESKETSEVQPAEIVEHKDVQVPETSSPTVEPTVEKLAPVESKETSEVEPAEIVEQKDVPVPETSAPTVEPTVEKLAPVESKETSEVEPAEIVEQKDVPVPETSAPTVEPTVEKLAPVESKETSEVQPAEIVEHKDVQVPETTATTFEPTKEKLAPVDSKETSEVQTAEIVEQKDVPVPETSATTVEPTKEKLAPGESKETSEVQQAAIVEQKDVAVPETSATTVEPTKEKLAPVESKETSEIQTAEIVEQKDVPVPETSTSYVEPTKEKLAPGESKETSEVQQAAIVEQKDVPVPETSATTVEPTKEKLAPVESKETSEIQQAAVVEQKDVPVPETSATTVEPTKEKLAPVESKETSEVQQAAIVEQKDVPVPEANAPTFEPTVEKLAPVESKETSEVQQAAIVEQKDVPVPEANAPTVEPTVEKLAPVESKETSVESKETQADAKLKKEKDDKHKQEADAKLQKENDDKLKQEADAKLKKENDDKLKQEADAKLKKENDDKLKQEADAKLKKENDDKLKQEAAAKLKKENDDKLKQEADAKLKKENDDKLKQEADAKLQKENDDKLKQEADAKLQKENDDKLKQEADAKLQKENDDKLKQEADAKLQKENDDKLKQEADAKLQKENDDKLKQEADAKLKKENDDKLKQEADAKLKKEKHDKLKQEADAKLQKENDDKLKQEADAKLQKENDDKLKQEADAKLQKEKDDKLKQEADAKLKKEKDDKLKQDADAKLQKEKDDKLKQEADAKLKKEKDDKLKHEADAKLQKEKDDKLKQEADAKLKKEKDDRLKKDADAKLQKEKDDKLKQEADAKLKKEKDDKLKHEADAKLQKEKDDKLKQEADAKLKKEKDDKLKQEADAKLQKEKDDKLKQEADAKLKKEKDDKLKQEADAKLQKEKDDKLKQEADAKLKKEKDDKLKQEADAKLQKEKDDKLKQEADAKLKKEKDDKLKQEADAKLKKEKDDKLKQDADAKLQKEKDDKLKQEADAKLKKEKDDKLKHEADAKLKKEKDDKLKQEADAKLKKEKDDKLKQDADAKLKKEKDDKLKHEADAKLQKEKDDNFKQEANAKLQKEKDDKLKQEKDDNFKQEANAKLQKEKDDKLKQEKDDKLKQEADAKLKKEKDDKLKQEADAKLKKEKDDKLKQEADAKLKKDKDDKLKQEADAKLKKEKDDKLKQEADAKLKKDKDDKLKQEADAKLKKDKDDKLKQEADAKLKKEKDDKLKQEKNDKLKQEADAKLKKEKDDKLKQEADAKLKKEKDDKLKQETDAKLKKDKDDKLKQEADAKLKKDKDDKLKQEADAKLKKDKDDKLKQEADGKLKKEKDNKLKQEADGKLKKEKDNKLKQEADAKLKKEKDDKLKQEADAKLKKEKDDKLKQEADAKLKKDKDDKLKQEADAKLKKEKDDKLKQEADAKLKKDKDDKLKQEANAKLQKEKDDKLKQEADAKLQKEKDDKLKQEADAKLKKEKDDKLKQEADAKLQKEKDDKLKQEADAKLKKEKDDKLKQEADAKLQKEKDDNFKQEANAKLQKEKDDKLKQEKDDKLKQEADAKLKKEKDDKLKQEADAKLKKDKDDKLKQEADAKLKKEKDDKLKQEADAKLKKEKDDKLKQEADAKLKKDKDDKLKQEADAKLKKDKDDKLKQEADAKLKKEKDDKLKQETDAKLKKDKDDKLKQEADAKLKKEKDDKLKQEADAKLKKEKDDKLKQEADAKLKKEKDDKLKQEADAKLKKDKDDKLKQEADAKLKKDKDDKLKQEADGKLKKEKDNKLKQEADGKLKKEKDNKLKQEADAKLKKEKDDKLKQEADAKLKKDKDDKLKQEADAKLKKEKDDKLKQEADAKLKKEKDDKLKQEADAKLKKDKDDKLKQEADAKLKKDKDDKLKQEADAKLKKEKDDKLKQEADAKLKKDKDDKLKQEADAKLKKDKDDKLKQEADAKLKKEKGDKLKLEDQTNQSRIFEETSIEVTSLLKCKQQAIIVSKSFALCERVVLNAEEPFTLEVFCNAVFVKQRTDKIGIGIIFERSGASKKDESRPDRLDDNCVLTDVTDGLSILSPPPKAKKHLKKKKKHHKKEKIAVKETEQDEKTVSHLKPEISGMERKRSNSGSSDIFVDVDIEAGEESIHTDALVDLNFYDYDQMELSIFEDYDSDDDSASIDCDVSLSNVAADDGIDVFPSDGDTQEVEQKVTLPKKHQSDEDVISKEEENLETSVSYGSIEETVSFTIGTGQSIIEHPKSHAVGQMNSEVIIKCKTSQPISDAKWFCNGMVLLPDEQVNMTVTGCEAVLRLVKFLPQNKGNYHVLIDGSIGSQPAILSGPVPPVILNKLTKPITHQAGKSFTYKFNFMGAPAPRLRVLSNGEPVSFDVKYEIYDNIASLYIPKMSKRDGGEYTVVLENKYGKDESDLHITMVDTPLKPRKAQLVALTDTSATFKWLPPHTGESDILHYIVMRRSTESRRWRNIGHVQEKTFTAIELVPNEFYAFRIVAVNGFGEGAPSEIIEVNTLDYDQEESFDFAGEEELKLDDVQVNNEVVTEITIEESEVTIEEHRKLKKKSKKSKKTTDEPELDSEIALEVSSDITSSLEITTESTIPDTAPESQETLNVEIAVTETTVQKITNPSDESAKKDVNEDTAVSSIVKKDDKDVNKKSLPESGLTTKKEIQGKPEKKIMKKKTEKADSSISETSETLTKDLTQTKQSEPEPAKRTTETSVQDEVKRKTETTSKSKQTTEEHPQPGGKSDSSISSTSDASEVKQVQQSESEAQKVTEKPETAKLESKSKMTEDTTKESDNKETVDEKPKKKVLKKKTEKSDSTISETSETSAVESAGPSESETQNVAAVDKEKKQKETDEKQKLEAEIAGKKSTEQKSKLEAEAKLKRAAEEDAAKKQKEKTEAASKKAAAEKLELEKQAQINKAAEADAVKKQNELDEQNKLEATKKLAAEKLKLEEQSAAKSKQAAEEQAKLDAQTKAKAAEKQTGLEKDEKSNKDSGSNETVEEKPKKKVLKKKTEKSDSSISQKSDTSKTVAESAGSSESETQKVADATSKQKETDKKQKLEAEITAKKSADEKSKLETESKLIKAAEDAAKKQKEKEDKLKLEADVASKKAAAEKLELEKQAQIKKAAEADAVKKQKELAEKQKLESEAATKKAAAEKLKLEEQAQINKAAEADAVKKQKELDEKNKLEANKKSAAEKLKLEEESAAKSKQTVEEQAKLDAQTKEKTAEKQTGLEKDDKSTKDSESKETVDEKPKKKVLKKKTEKSDSSISQKSVTSKTVVESGGPSESETQKVADAARKQKETDEKQKLEAEITAKKSADEKSKLEAESKLKKAAEVEAAKKQKEKDEQLKLDTEAASKKAAAEKLELEKQAQIKKAAEADAVKKEKELAEKQKLESEAATKKAAAEKLKLEEQKKKDAETASIEKQKEQEKLAQEQSKLEVDAKKSAEKQKLESETKSKKTEEAPKESVDEKPKKKVLKKKTEKSDSSISQKSDTAKTVAESAGQSDSETQKVSEADKAHKQKESDEKQKLESEIAAKKSAEQKSKLETEAKTKKVIEDESAKKQKEQEDKKKGDDSAKKQKDQKEKQKLESEATSKKPTSEKQKDEKTPQEKAKSENETVMTTEPQQLEVKSEPKKSDKTETVEKEVASSTEKSDDSKTKEPKEKKKIIKKKKDTTKPQEASKELSSDESRIDLESDISLSLDTVTESDDLSTASTIKLQKESDESGIDSRMGQTSEAEDSPFISQPVSATVTEMAGEAKFTVKFSRKPIYVKWMRDDREIRVAYGKASVETTDDSSVLVIKNIDGKDVGNIYAVFDSEYRSAMARLDLRVPCKITLESSSNAPEIVAGKNLDLSFKISGYPLPTNIELLHNNENLRTRSDVTDFDDSISIRMKRLKLEDSGEIKIIGKNDSSEDQLRIPINVIEVTSKPTSLQVTSTERETVTLTWSLPTELNGSNVNEYLVERKTVDGGRWRHACTVTDSRAVVDGLFSGTEYVFRVVAVNGAGQSAPSDTIEATTQAEEEIDETVPTSPVEKVKEPVSKKPENTKESEGHKKRDRKESEDHDENNLGKSGKDEFATSGESGTSNQNEESAQLNTSFTSTEQHGQTEKQVRKGTRKSLTRSLNIRESDIDADVVEVEYDEQGDDIPSDPTTSGTYAFDKIEEEPARTSGEMAMAEKDSDAMEVRGLNKKLSKKGGKEGTSTEKSSSKTKKQEKSALSVQEMNKSLKKKGEKGEAETAASDFIENADQTGMSIQDLNKSMKKKVESGEATGQINDASNNKDADELSIQDSQQSLKKKSENESVTGEQLDKSQEVEDDKMTIQSLKKSIKKKPESREVSGGKSEKSKEKESDEMSIQQLNKSVKKKPENEAVTQGKSGKSQEQESDKMSIQALNKSMKKKDGVDGVEGNINIGRSDGDQLSVNDIDAELSTSEQVENASQNLGATADSDGDSLSLQTLKKRISKKGIHGEAESKLGEKQSGSDSFTLQDLYEELKAKEDAVEAGAETSNADQSAEKTSLEVRDMKKKMKKKQVSGTAENLIGESNRDETSMEIRDLNTQHSNQTGEDESSTFNFGQKDQEQYSMVMKDVSKKLARQNAEEIQSGKLIPTTNEEKTGLALTGKNKNLKKGEENEKTKFEAKHLGSSSASDSLAESTLRSKKTKKGEVEKSELSIDMKNQDKTTLATTLLEDDLAKTTSAEESEAEHLVALQNKEKTSLAMRRKRVSFDSSTKSESIEDVIPDKNRDSDKMSITGIKKKMSQKSESAEAQKNESPEVKEISSFEEKTLKSKKKSKADRNQGTEANLGDKTIDKDYLSVTDKNQSLEKSEASGQAEKSIKAPNKSKVTTSFADESLTSELDRLMADEEMAEMMFAEEEKAADLLNVMNKNKGLNKSEQEESQEISLKSQSKVKDSDSLSSTDKKIGLKKSDKDQKLGTSKIFGSKDQESVGYEEKTSNFSKQRRGVSDLGSDAMTDQKNVQESQYAEISADDHMSKTGADGEISATRTIVDGSDAAQGSEYAEISKKRKFKRAEQIGEAETSLCDSRENTHDSLSISDVNPELRRSNVEISAFGQIDLTAEEVTSLTDINKDAQLTKKQDENDAKKSVSKNLKAGAKKDSDTLSITSKKDKFGKRQDSREASATVEQQGEEKVTKNLKGSRGKKEKLGDAGIDVNFENQEEFASTTGDIESIVSEKGHDTYSEKTVKSSKKKSPQTAGAEYGGSESLNASSALSTTDVDAQLKNQEKDGVAESSIGKSNQKDSYSEQELNVNKKKKQAVGAAMNQGSGSTKESDNLAVASVESNLAKDSANQEASLHGLVDNDATSLSQLDSEHRLKKRDDELSAHTKLGKHTQSENIALTETDDSLVKGDSEESAELNIKQQGETAEDKYVESRKKTTLKKKPEQKQVTDTLSAVDGRHDTTSLSVADSGISFDKSMENELAGSGDGTASASVSAKVRGADGNAKTNLISSFEKPGQESKTSKTLSGKQKKQEKSSFAEKNAGFDLSMGEGKNDESVESSLQKNRDADSLALQGTDLAFSKPSDSSANAHLDMPQRELTLRICQAETVDWSDDSEVEEGTRTSAPGEVKKKKKFIISAISQDGEFSDAESITFDENGVRVEKRRRKKRDPKEYMGAGELAMRIPAFAKKMQYIGCIEGDVVVFTIKVVSDDVPLIRMYRNDFPVANFDKMAFEGFTKGSEHSFNVTINDIRKLDGGKLVFEAKNDYGVDKCTILLDVRDSGSFIEDYSEIHRSAEIQNSVGDVQVKEGETAKLTGRVDGFPLPELIWIKNGKEIDMMVPSTKYQLDYHSDGEFEARIANCTFEDDDDYSLLVENLAGVDSCNFQVFVDCNEYPDDEHFNRRRRLQRGRRVMEASSDSELDDAKKRKKRRIKRVVERRNPNAPRLTQLIPPRFDKILSDHDAIEGENVVMMVETLGEPEPQVRFYRDGKLIDDGSGDRMEVRHEDEMRKHWLILKDICKDEEAEYACQAINVAGEAWCFSDVVVHMSEESRDDDKSVDEVDDSTVLEEKKDDGDDKSKPKTKKKIIKKKETPESEQVTAAEPEQQKISEVDVQSVAETEVGAKKKPDAEKPTDLSKAKKDSKSKKSDEPEASTEEKSTTEKPTNDKTSKKSAEKKTVKPKKEVTGKPLEAKKPVEDKKDASQPSSSKESSPPTDGKKKKQIPKALFIPDEISSRFGDPSTMHSETNITTTIRGREGSADAKTPLVEPLSASVSMKVESAKEKAEFSFKRRSETPDDKSRKKEGLPPAKKSEKKDEVTAEKQSTEALIESKKKEVDESKISEQQPSDKNKSEVVGVPEKAAGPETKKDVSEIEEVPKKKTIKKKTEKSDSSISQKSNVLKPADDDKSKSDDVTDKSKKTTEDQTKVATDSKLEKAADTTKQIETETVVDDKSKKKVLKKKTEKSDSFISQKSETPPVVEPTKPAESEAQKIAEVNKAKKQKEVDDNLKREAEVAAKKIADEKLKIEAEANIKKTAEVEAAKKQKEKDEQLKLETEVVSKKSAAEKLELEKQAQIKKAAEADAVKKQKELNEKNKLEAAKKSAADKLKLEEESAAKSKKVSEESVKFGEEKKTKAGEKTVQVESEPTSKKTIDTKDVGATEPADETPKKKIIKKKTEKSDSSISQKSATDSEKVSKQKEQDEPTKPAVSETQMVTEADKSKKQKETDEKLKLDAEIAAKTKQEADEKSKLDAQEKIKKVSEDDAARKEKELNDKLKLESEIATKKASADKLKLEEQAQAKKAAEVEAAKKQKEKDEQLKLDTEAASKKAAAEKLELEKQAQIKKAAGADAVKKQKELDEKNKLEANKKSAAGKLKIEEESAAKSKQTVEEQAKLDAQTKAKTAEKQTKLEKDEKSTKESESKETVDEKPKKKVLKKKTEKSDSSISQKSETSKTVVESAGPSESETQKVADAARKQKETDEKQKLEAEITAKKSADEKSKLEAESKLKKAAEVEAAKKQKEKDEQLKLDTEAASKKAAAEKLELEKQSHIKKAAEVDAVKKQKELEEKQRLESEAATKKADAEKLKLEEQKKKAAEIALIEIQKEQEKLAQEQSRLEDEAKKSAEKQKLESETKSKQTEEAPKESVDEKPKKKVLKKKTEKSDSSISQKSKSAKSTVDAAETLESDFNLVEKKTVQKVEQSPDESTSATIKRDPAQKTEEISKQDDGDEKKTTTDGKPPKPEDSEATPKKRVVKKKTQKSDSVASDASLADVSKLSDDVEEKPKKKVLKKKTEKSDSVISETSSVDTIKPESVEIPTEKAEQMILHNRFSTDSAVESEPKNAHKDDTEKTTDDMMTRRKSSAIFSDDEQSISSKTSSEGRRRRRRTGFASKFASDTLALRGDNVEIEAELLAEDDTVTWKVNGKDADLNSRCHEMSHTFFRTLIIDEVEPTDSGMEITATCGTESHTTILKVEELPVDFVKYLPRKTSGKEGQEVTISVTLNHPIDISKVVWLKDGKPLEINKDYSIDTVGCSVSLTLRRAKYEDSGKYKVVCDGVDCSTHLSIQGKPVLKNVSETKPVITVDKDDQFSLLVAYDSNPEASFSMTVDGKDLEFDGRSRIDVVDDGLKLTKRGVSKTDAGEYEVKLKNEFGEVAQKFDVKVNDTPSAPGDVSVVKAESDCLHIEWTAPTEDNGAEVTSYVIEKKESGRRKFHKVATVNGKKTSYVVDDLEIETPYIVRIAAVNKFGTGEFIETKPVQTGSPFQVPTVEFPPTIDNVTSTSCSLSWPKPIEDGGSPVYGYDVYKRENEGEWQKMNGEELVFTESFNVRALSSGKEYEFKIEACNEAGLRSNSNVVSKKLTVEGLVPEIILDMPMVKVLDNDKVEVTWKSDGEKEFVVQYKSDGSSIWASVDIGGPRSESAATSKCIIDGLREGIPYVFRVAARNQHGTGEFSEPTIPVVVLADDAPRVLKAIKPVKIPKKGELRLECHAAGHPAPEYIWYKDGKEIIPTDENTEIVNEGSMSALIIHELAGEDVGLYKVLVENIHGTAESEAEVGISDVRAHFNSSFSELTEIEEGHDIELTCEVSDEEAVVNWYKDGKKLVASDRVQFYAMARKRTLRIKGSTDADSGVYKCETTDGRSRTEGEVIVNEQEPHILVGPQDAIVKDFGETMVLFCETSKPVRKVKWFKNGVEIWPQMNKAIMENDGKRATLEIKNFDKHDIGAYTASVSEKETSAPAKLVFEVAPNLIIPTEIRDGVTVHAGNEFDFAVEFSGFPIPTIHLTNNGTPLKAIAVVTEYDDSVSVRMKDVTLDNSGTVRVIAESPLGQCIKEIPLKIIDKPSAPCDLQFKEVTEDSVFLSWQPPLETNGAPLTGYVIERKAVDNNRWRPCGQVKPTKLTFVAEDLFCNQVYGFRILAVNEVGESEPCDTVDVLTLESSEPVSESSELFVPKIAILRTPQVTVAVDETKVTLRWEECPETSLYKVERKKVGDSDWLEIANTDRNKFKDRSLTESGEYVYQVTATGIHAVSSPSEETNPVKILVPGSEMPASKTEKKTDAAKSESEQKSAEEIVAEKQVDQSQASESTTEAVEEKKTKKVVKKKVAENKGEETLQEVKEKLKKGKAVEKVQDESRRGSLQASSDNESVTTTSEKRSEAELEKNSEKSAEKKSTSADLEAADKAETEKSETGKETTEKKKKVVKKVAKKGLVKADKSKIELTAGKEGEISAQVAETGVSVEWKKDGKALDASYTVTSTGGVSTVKIPIVDVNTSGVFTCKVKSSEGDEEEVSIAVTVKLPEVPKVEAEQSIVEVKVGDVAKLSAKISEPASSVNWTKDDKPIKEDGNVKAQLSPDGTAQLTISKTDSAHSGIYKLNVENDAGKGKVEIALRIKGAAKGAPGIPTGPIVFDDVTESSAEFSWKAPENNGGCEITGYNVERKESKNKGWKQCGKTKELKFKADGLEEGTDYDVKVSAVNTMGTGSALEGKITTLKKKEETGKQKSEKSESDEKKSESDKVSELKQIGKPEYVSSTATSIALKWTSDNDEVTYTVQMKEANSKRPWAVVAKEISECSATIAQLKEGTSYLFRVIAQNKTGQTVTSEQSESIECKDTTESKKPAFTNAPTDLTAVKNGKTKITAEFTGHPAPEIHWFKNKKEIFSGKRQWIENIAGATSLTIGEMREDDEGEYKIVVKNTAGSVEHSCKLTMDQLPEINRVDRYASTLVFDKGETVKLRLSFSGRPQPEVIWIDNNGKVIEESRKMKIEKTVLNTVLTINSIDSQDQGEFALKIKNRCGEDKYAIGIQVTDRPAAPGKPAVEDQNVDSVRLRWAAPTNDGGSPVRNYTVEMCTEKGKTWTKAEVTKQAFITLFNLVPGESYRFRVRADNTFGQSEPSDESELVVVKNVSRVVEEPKKKEVKVKEQESVDYERVAKDSEPSEYKTIDIHRLPNDLQAKYIIHEELGKGAYGTVYRATEKATGKTWAAKMVQVRPGVKKENVIHEISMMNQLHHEKLLNLHEAFDMGNEMWLIEEFVSGGELFEKILEDDSLMSEEEVRDYMHQILLGVSHMHKNQIVHLDLKPENILLKAKNSNELKIIDFGLARKLDPKKSVKLLFGTPEFCAPEVVNYQPVGLSTDMWTVGVISYVLLSGLSPFLGDSDEDTLANVSASDWDFDDPSWDDVSDLAKDFICRLMIKDKRKRMSVQDALRHPWITGPLLSAFNDLSEYVKKMQPKLDKSGVPARQKRNFLSLKRWSDDLLPIGRLAKRGAIFRRLTMDGVFERNIAFDTDAAPSVKKQLEDIVANVGDLIATLSCDVDGVPSPKVQWYKDDKELTVPSMKYDSFYNEGLAELTVKNIVESDAGKYTCRATNDLGSIMTHAKLSVKADEKKKKKSKTSPAVIEKKKDRKTSKVVVIEEMIDMPPNFHHLLQDDEAKIGEPKILVVTNTTLPEPTVDWYHNGEHISINDSNYLRKHDKGRYELHILSVDSTDEGKWKAVGKNAFGECESEAKLTVVIPDGQYAPSFGKQLSDVKCSESDILKLEVNIQANPAPEINWFRNESEIEHSQHHRLQFDDGSGNYSLTIIDAYAEDSGEYKCVAKNKIGKAHTVCCVRIEELLSKRSKKIDGSKAPRFRMQLPTPREVPQGADLTLVCSVSGTPHPNIKWTKDDKPIDMSNKQVRHENGVCTLHIIGARDDDQGRYVCEAENIHGVAQSFSVVEIKEAVDKDHVRPKFLEPLVNCSTCEGNEMVLECCVTGKPIPTITWYKDGLKLIIENRMLQYTDRKGVSRLNIMNVVMNDDGEYTCEAVNSLGKDFTHCTVKVVDMGLSKTRLTPVRSRSRSRSRSPSVVGGEIQRPPVVTRPLADATVTEGNRELLEVEVDGFPTPTIEWYHDGKLVAESRTLRTYFDGRVAFLKIYEAHEEHNGQYVCKVSNKLGAVETRAIVVVEAPDAAEHVTQMPTFVKKLQDVVLKTAGETATFTCQSYANPAAQVVWLHNGKALQQTKSNYKTRLFDDNTATLVIENVTDELCGTYTAVANNQFGDVHTSAQLTISGSEAKKIAASLPYFIIELKPKINVVEGATLSIQADLNGSPIPEVVWLKDNSELVESDRIQMKCDGVNYQLLVRDVGLEDEGTYTITAENEKGKIRQNTEVSVTKSKEVKEKKEKKKVEKKDEGKKKPGRPGLPRPSGASKTEQVTMAFDAPSEGPADSYEVERRCPDQREWVSCGSTKSLELEIKGLTPNTEYIFRVAGKNKQGLGEWSEMTSTLKTASVGQAPQFTISPQSKIIANRDDEFEIAVEFSGTPTPSVKWYKENLQIVPDEKIDVATTSTSSILNLKSQEENGTFNCLIENELGQASASCQVTIFNKPASLQSTPDHSLERNLVPTLQKALNNESAQAGQQIMLTCRISSRSESTVAWFKDDERIESAGRYELSSDKKSNHKLVCHAVQSQDTGKYRCVVTNKYGYAESECNVAVEDVTKFIAPSFSATLSDSTAILGHNITLECKVEGSPAPEVSWTKDGERISTTRRIRQTQDENGNCKLSISKAESDDMGVYVCSATSVAGVDSTSSMVMIAKTTGTDSHLVIAQTADEKHEKPRFTRAPPSLIEVNESGQFTLIAKAVGEPKPTVTWLKDGREILRTNRIYHHFVTGDGESHLIAECVVSKTSGIFSCKAENPNGTVIAETQVIVQRMKPANQLANVAPKFTIPLTDMGIVNGHPTTLSCNVTGSPEPTLEWIYIDDSGHKINLTSSTTDWTECRFGKVAELKSERVLREQRGTYQCIATNSSGQATTQCYLLVGELSDEPAGPPRFVKCLQDTWTPLKESIEFSVELAGFPTPDLTWYHNEKKINEGKDVKITFPSDTTSVLSIKNVSLASLGMYFVEASNIHGVLRTAGRLNVSDERRKAEPPQFKHVLEPVLAVQPKVAFSEEHPRASSSAATARVKKGAAPMFLQGLEDMDLKAGASAAVAGKLGRKLRPHRSTTNDADKLAKALAQSLRLDEPRASIDSRPESAANAALDEVRAAINSRNKRVCRPKFMVKPKPRKVLEEYKSLRLKTAISGNPMPQVHWDKEGIILETGNKYSIYNDGDFYYLEVHHVSTFDKGFYNCTAANNEGIITCTSEIDVLPNKEDSAAQVAKRKSRKEAKAPNFIEVLPGRSQANLNESLCVECSVSAYPCASIIWTRNSVRLLPQADRYTMSYDGECASLKFISVTPGDEGTYACEAVNELGSAVTNMNLQVSGVDPNAAEGIPPLFRFEKIKSVRKVVDGSRVELAAELVQASEPLQIRWLRNKVTIVDSPSFSYSRSENMVFLTIADVFPEDGGEYTVEAKNQSGIARCTMQLDVRNNERSVADEAPRVFDFEPTTRSDPGVSVELRAKVIGHPDPVISWTKAGQKLNNEEKYMMRNEGDKFILRIANVTRADAGKYELTAINPSGQANAELELTVVQSTKTVGAKPKFNESPISVQTCEKNRAELRASFSGTPAPACRWFYNGNELIDGLDGYTITSSDTNSSLLINSVDKKHFGEYLCTIRNQNGEELANAMILSEVLSMFYSSLFLVVFVDIVAQCHVARLLHFLNEERFVGRNIFA |
| 2789 | sp|P49638|TTPA\_HUMAN | MAEARSQPSAGPQLNALPDHSPLLQPGLAALRRRAREAGVPLAPLPLTDSFLLRFLRARDFDLDLAWRLLKNYYKWRAECPEISADLHPRSIIGLLKAGYHGVLRSRDPTGSKVLIYRIAHWDPKVFTAYDVFRVSLITSELIVQEVETQRNGIKAIFDLEGWQFSHAFQITPSVAKKIAAVLTDSFPLKVRGIHLINEPVIFHAVFSMIKPFLTEKIKERIHMHGNNYKQSLLQHFPDILPLEYGGEEFSMEDICQEWTNFIMKSEDYLSSISESIQ |
| 2790 | sp|Q9ULT0|TTC7A\_HUMAN | MAAKGAHGSYLKVESELERCRAEGHWDRMPELVRQLQTLSMPGGGGNRRGSPSAAFTFPDTDDFGKLLLAEALLEQCLKENHAKIKDSMPLLEKNEPKMSEAKNYLSSILNHGRLSPQYMCEAMLILGKLHYVEGSYRDAISMYARAGIDDMSMENKPLYQMRLLSEAFVIKGLSLERLPNSIASRFRLTEREEEVITCFERASWIAQVFLQELEKTTNNSTSRHLKGCHPLDYELTYFLEAALQSAYVKNLKKGNIVKGMRELREVLRTVETKATQNFKVMAAKHLAGVLLHSLSEECYWSPLSHPLPEFMGKEESSFATQALRKPHLYEGDNLYCPKDNIEEALLLLLISESMATRDVVLSRVPEQEEDRTVSLQNAAAIYDLLSITLGRRGQYVMLSECLERAMKFAFGEFHLWYQVALSMVACGKSAYAVSLLRECVKLRPSDPTVPLMAAKVCIGSLRWLEEAEHFAMMVISLGEEAGEFLPKGYLALGLTYSLQATDATLKSKQDELHRKALQTLERAQQLAPSDPQVILYVSLQLALVRQISSAMEQLQEALKVRKDDAHALHLLALLFSAQKHHQHALDVVNMAITEHPENFNLMFTKVKLEQVLKGPEEALVTCRQVLRLWQTLYSFSQLGGLEKDGSFGEGLTMKKQSGMHLTLPDAHDADSGSRRASSIAASRLEEAMSELTMPSSVLKQGPMQLWTTLEQIWLQAAELFMEQQHLKEAGFCIQEAAGLFPTSHSVLYMRGRLAEVKGNLEEAKQLYKEALTVNPDGVRIMHSLGLMLSRLGHKSLAQKVLRDAVERQSTCHEAWQGLGEVLQAQGQNEAAVDCFLTALELEASSPVLPFSIIPREL |
| 2791 | sp|Q61187|TS101\_MOUSE | MAVSESQLKKMMSKYKYRDLTVRQTVNVIAMYKDLKPVLDSYVFNDGSSRELVNLTGTIPVRYRGNIYNIPICLWLLDTYPYNPPICFVKPTSSMTIKTGKHVDANGKIYLPYLHDWKHPRSELLELIQIMIVIFGEEPPVFSRPTVSASYPPYTATGPPNTSYMPGMPSGISAYPSGYPPNPSGYPGCPYPPAGPYPATTSSQYPSQPPVTTVGPSRDGTISEDTIRASLISAVSDKLRWRMKEEMDGAQAELNALKRTEEDLKKGHQKLEEMVTRLDQEVAEVDKNIELLKKKDEELSSALEKMENQSENNDIDEVIIPTAPLYKQILNLYAEENAIEDTIFYLGEALRRGVIDLDVFLKHVRLLSRKQFQLRALMQKARKTAGLSDLY |
| 2792 | sp|Q39243|TRXB1\_ARATH | MNCVSRLKCLISKARSFARLGGESTLSQPPSLASAAFSSSAVMNGLETHNTRLCIVGSGPAAHTAAIYAARAELKPLLFEGWMANDIAPGGQLTTTTDVENFPGFPEGILGVELTDKFRKQSERFGTTIFTETVTKVDFSSKPFKLFTDSKAILADAVILATGAVAKRLSFVGSGEASGGFWNRGISACAVCDGAAPIFRNKPLAVIGGGDSAMEEANFLTKYGSKVYIIHRRDAFRASKIMQQRALSNPKIDVIWNSSVVEAYGDGERDVLGGLKVKNVVTGDVSDLKVSGLFFAIGHEPATKFLDGGVELDSDGYVVTKPGTTQTSVPGVFAAGDVQDKKYRQAITAAGTGCMAALDAEHYLQEIGSQQGKSD |
| 2793 | sp|P63146|UBE2B\_HUMAN | MSTPARRRLMRDFKRLQEDPPVGVSGAPSENNIMQWNAVIFGPEGTPFEDGTFKLVIEFSEEYPNKPPTVRFLSKMFHPNVYADGSICLDILQNRWSPTYDVSSILTSIQSLLDEPNPNSPANSQAAQLYQENKREYEKRVSAIVEQSWNDS |
| 2794 | sp|Q94A97|UBC35\_ARATH | MANSNLPRRIIKETQRLLSEPAPGISASPSEDNMRYFNVMILGPTQSPYEGGVFKLELFLPEEYPMAAPKVRFLTKIYHPNIDKLGRICLDILKDKWSPALQIRTVLLSIQALLSAPNPDDPLSENIAKHWKSNEAEAVDTAKEWTRLYASGA |
| 2795 | sp|Q7Z2W7|TRPM8\_HUMAN | MSFRAARLSMRNRRNDTLDSTRTLYSSASRSTDLSYSESDLVNFIQANFKKRECVFFTKDSKATENVCKCGYAQSQHMEGTQINQSEKWNYKKHTKEFPTDAFGDIQFETLGKKGKYIRLSCDTDAEILYELLTQHWHLKTPNLVISVTGGAKNFALKPRMRKIFSRLIYIAQSKGAWILTGGTHYGLMKYIGEVVRDNTISRSSEENIVAIGIAAWGMVSNRDTLIRNCDAEGYFLAQYLMDDFTRDPLYILDNNHTHLLLVDNGCHGHPTVEAKLRNQLEKYISERTIQDSNYGGKIPIVCFAQGGGKETLKAINTSIKNKIPCVVVEGSGQIADVIASLVEVEDALTSSAVKEKLVRFLPRTVSRLPEEETESWIKWLKEILECSHLLTVIKMEEAGDEIVSNAISYALYKAFSTSEQDKDNWNGQLKLLLEWNQLDLANDEIFTNDRRWESADLQEVMFTALIKDRPKFVRLFLENGLNLRKFLTHDVLTELFSNHFSTLVYRNLQIAKNSYNDALLTFVWKLVANFRRGFRKEDRNGRDEMDIELHDVSPITRHPLQALFIWAILQNKKELSKVIWEQTRGCTLAALGASKLLKTLAKVKNDINAAGESEELANEYETRAVELFTECYSSDEDLAEQLLVYSCEAWGGSNCLELAVEATDQHFIAQPGVQNFLSKQWYGEISRDTKNWKIILCLFIIPLVGCGFVSFRKKPVDKHKKLLWYYVAFFTSPFVVFSWNVVFYIAFLLLFAYVLLMDFHSVPHPPELVLYSLVFVLFCDEVRQWYVNGVNYFTDLWNVMDTLGLFYFIAGIVFRLHSSNKSSLYSGRVIFCLDYIIFTLRLIHIFTVSRNLGPKIIMLQRMLIDVFFFLFLFAVWMVAFGVARQGILRQNEQRWRWIFRSVIYEPYLAMFGQVPSDVDGTTYDFAHCTFTGNESKPLCVELDEHNLPRFPEWITIPLVCIYMLSTNILLVNLLVAMFGYTVGTVQENNDQVWKFQRYFLVQEYCSRLNIPFPFIVFAYFYMVVKKCFKCCCKEKNMESSVCCFKNEDNETLAWEGVMKENYLVKINTKANDTSEEMRHRFRQLDTKLNDLKGLLKEIANKIK |
| 2796 | sp|P52488|UBA2\_YEAST | MPRETSLVTIIGEDSYKKLRSSRCLLVGAGGIGSELLKDIILMEFGEIHIVDLDTIDLSNLNRQFLFRQKDIKQPKSTTAVKAVQHFNNSKLVPYQGNVMDISTFPLHWFEQFDIIFNALDNLAARRYVNKISQFLSLPLIESGTAGFDGYMQPIIPGKTECFECTKKETPKTFPVCTIRSTPSQPIHCIVWAKNFLFNQLFASETSGNEDDNNQDWGTDDAEEIKRIKQETNELYELQKIIISRDASRIPEILNKLFIQDINKLLAIENLWKTRTKPVPLSDSQINTPTKTAQSASNSVGTIQEQISNFINITQKLMDRYPKEQNHIEFDKDDADTLEFVATAANIRSHIFNIPMKSVFDIKQIAGNIIPAIATTNAIVAGASSLISLRVLNLLKYAPTTKYTDLNMAFTAKASNLSQNRYLSNPKLAPPNKNCPVCSKVCRGVIKLSSDCLNKMKLSDFVVLIREKYSYPQDISLLDASNQRLLFDYDFEDLNDRTLSEINLGNGSIILFSDEEGDTMIRKAIELFLDVDDELPCNTCSLPDVEVPLIKANNSPSKNEEEEKNEKGADVVATTNSHGKDGIVILDDDEGEITIDAEPINGSKKRPVDTEISEAPSNKRTKLVNEPTNSDIVELD |
| 2797 | sp|Q923J1|TRPM7\_MOUSE | MSQKSWIESTLTKRECVYIIPSSKDPHRCLPGCQICQQLVRCFCGRLVKQHACFTASLAMKYSDVKLGEHFNQAIEEWSVEKHTEQSPTDAYGVINFQGGSHSYRAKYVRLSYDTKPEIILQLLLKEWQMELPKLVISVHGGMQKFELHPRIKQLLGKGLIKAAVTTGAWILTGGVNTGVAKHVGDALKEHASRSSRKICTIGIAPWGVIENRNDLVGRDVVAPYQTLLNPLSKLNVLNNLHSHFILVDDGTVGKYGAEVRLRRELEKTINQQRIHARIGQGVPVVALIFEGGPNVILTVLEYLQESPPVPVVVCEGTGRAADLLAYIHKQTEEGGNLPDAAEPDIISTIKKTFNFGQSEAVHLFQTMMECMKKKELITVFHIGSEDHQDIDVAILTALLKGTNASAFDQLILTLAWDRVDIAKNHVFVYGQQWLVGSLEQAMLDALVMDRVSFVKLLIENGVSMHKFLTIPRLEELYNTKQGPTNPMLFHLIRDVKQGNLPPGYKITLIDIGLVIEYLMGGTYRCTYTRKRFRLIYNSLGGNNRRSGRNTSSSTPQLRKSHETFGNRADKKEKMRHNHFIKTAQPYRPKMDASMEEGKKKRTKDEIVDIDDPETKRFPYPLNELLIWACLMKRQVMARFLWQHGEESMAKALVACKIYRSMAYEAKQSDLVDDTSEELKQYSNDFGQLAVELLEQSFRQDETMAMKLLTYELKNWSNSTCLKLAVSSRLRPFVAHTCTQMLLSDMWMGRLNMRKNSWYKVILSILVPPAILMLEYKTKAEMSHIPQSQDAHQMTMEDSENNFHNITEEIPMEVFKEVKILDSSDGKNEMEIHIKSKKLPITRKFYAFYHAPIVKFWFNTLAYLGFLMLYTFVVLVKMEQLPSVQEWIVIAYIFTYAIEKVREVFMSEAGKISQKIKVWFSDYFNVSDTIAIISFFVGFGLRFGAKWNYINAYDNHVFVAGRLIYCLNIIFWYVRLLDFLAVNQQAGPYVMMIGKMVANMFYIVVIMALVLLSFGVPRKAILYPHEEPSWSLAKDIVFHPYWMIFGEVYAYEIDVCANDSTLPTICGPGTWLTPFLQAVYLFVQYIIMVNLLIAFFNNVYLQVKAISNIVWKYQRYHFIMAYHEKPVLPPPLIILSHIVSLFCCVCKRRKKDKTSDGPKLFLTEEDQKKLHDFEEQCVEMYFDEKDDKFNSGSEERIRVTFERVEQMSIQIKEVGDRVNYIKRSLQSLDSQIGHLQDLSALTVDTLKTLTAQKASEASKVHNEITRELSISKHLAQNLIDDVPVRPLWKKPSAVNTLSSSLPQGDRESNNPFLCNIFMKDEKDPQYNLFGQDLPVIPQRKEFNIPEAGSSCGALFPSAVSPPELRQRRHGVEMLKIFNKNQKLGSSPNSSPHMSSPPTKFSVSTPSQPSCKSHLESTTKDQEPIFYKAAEGDNIEFGAFVGHRDSMDLQRFKETSNKIRELLSNDTPENTLKHVGAAGYSECCKTSTSLHSVQAESCSRRASTEDSPEVDSKAALLPDWLRDRPSNREMPSEGGTLNGLASPFKPVLDTNYYYSAVERNNLMRLSQSIPFVPVPPRGEPVTVYRLEESSPSILNNSMSSWSQLGLCAKIEFLSKEEMGGGLRRAVKVLCTWSEHDILKSGHLYIIKSFLPEVINTWSSIYKEDTVLHLCLREIQQQRAAQKLTFAFNQMKPKSIPYSPRFLEVFLLYCHSAGQWFAVEECMTGEFRKYNNNNGDEIIPTNTLEEIMLAFSHWTYEYTRGELLVLDLQGVGENLTDPSVIKAEEKRSCDMVFGPANLGEDAIKNFRAKHHCNSCCRKLKLPDLKRNDYTPDKIIFPQDESSDLNLQSGNSTKESEATNSVRLML |
| 2798 | sp|Q9EPK8|TRPV4\_MOUSE | MADPGDGPRAAPGEVAEPPGDESGTSGGEAFPLSSLANLFEGEEGSSSLSPVDASRPAGPGDGRPNLRMKFQGAFRKGVPNPIDLLESTLYESSVVPGPKKAPMDSLFDYGTYRHHPSDNKRWRRKVVEKQPQSPKAPAPQPPPILKVFNRPILFDIVSRGSTADLDGLLSFLLTHKKRLTDEEFREPSTGKTCLPKALLNLSNGRNDTIPVLLDIAERTGNMREFINSPFRDIYYRGQTSLHIAIERRCKHYVELLVAQGADVHAQARGRFFQPKDEGGYFYFGELPLSLAACTNQPHIVNYLTENPHKKADMRRQDSRGNTVLHALVAIADNTRENTKFVTKMYDLLLLKCSRLFPDSNLETVLNNDGLSPLMMAAKTGKIGVFQHIIRREVTDEDTRHLSRKFKDWAYGPVYSSLYDLSSLDTCGEEVSVLEILVYNSKIENRHEMLAVEPINELLRDKWRKFGAVSFYINVVSYLCAMVIFTLTAYYQPLEGTPPYPYRTTVDYLRLAGEVITLFTGVLFFFTSIKDLFTKKCPGVNSLFVDGSFQLLYFIYSVLVVVSAALYLAGIEAYLAVMVFALVLGWMNALYFTRGLKLTGTYSIMIQKILFKDLFRFLLVYLLFMIGYASALVTLLNPCTNMKVCDEDQSNCTVPTYPACRDSETFSAFLLDLFKLTIGMGDLEMLSSAKYPVVFILLLVTYIILTFVLLLNMLIALMGETVGQVSKESKHIWKLQWATTILDIERSFPVFLRKAFRSGEMVTVGKSSDGTPDRRWCFRVDEVNWSHWNQNLGIINEDPGKSEIYQYYGFSHTVGRLRRDRWSSVVPRVVELNKNSSADEVVVPLDNLGNPNCDGHQQGYAPKWRTDDAPL |
| 2799 | sp|P24529|TY3H\_MOUSE | MPTPSASSPQPKGFRRAVSEQDTKQAEAVTSPRFIGRRQSLIEDARKEREAAAAAAAAAVASAEPGNPLEAVVFEERDGNAVLNLLFSLRGTKPSSLSRALKVFETFEAKIHHLETRPAQRPLAGSPHLEYFVRFEVPSGDLAALLSSVRRVSDDVRSAREDKVPWFPRKVSELDKCHHLVTKFDPDLDLDHPGFSDQAYRQRRKLIAEIAFQYKQGEPIPHVEYTKEEIATWKEVYATLKGLYATHACREHLEAFQLLERYCGYREDSIPQLEDVSHFLKERTGFQLRPVAGLLSARDFLASLAFRVFQCTQYIRHASSPMHSPEPDCCHELLGHVPMLADRTFAQFSQDIGLASLGASDEEIEKLSTVYWFTVEFGLCKQNGELKAYGAGLLSSYGELLHSLSEEPEVRAFDPDTAAVQPYQDQTYQPVYFVSESFSDAKDKLRNYASRIQRPFSVKFDPYTLAIDVLDSPHTIRRSLEGVQDELHTLTQALSAIS |
| 2800 | sp|Q9XGN1|TTG1\_ARATH | MDNSAPDSLSRSETAVTYDSPYPLYAMAFSSLRSSSGHRIAVGSFLEDYNNRIDILSFDSDSMTVKPLPNLSFEHPYPPTKLMFSPPSLRRPSSGDLLASSGDFLRLWEINEDSSTVEPISVLNNSKTSEFCAPLTSFDWNDVEPKRLGTCSIDTTCTIWDIEKSVVETQLIAHDKEVHDIAWGEARVFASVSADGSVRIFDLRDKEHSTIIYESPQPDTPLLRLAWNKQDLRYMATILMDSNKVVILDIRSPTMPVAELERHQASVNAIAWAPQSCKHICSGGDDTQALIWELPTVAGPNGIDPMSVYSAGSEINQLQWSSSQPDWIGIAFANKMQLLRV |
| 2801 | sp|Q9WUD2|TRPV2\_RAT | MTSASSPPAFRLETSDGDEEGNAEVNKGKQEPPPMESPFQREDRNSSPQIKVNLNFIKRPPKNTSAPSQQEPDRFDRDRLFSVVSRGVPEELTGLLEYLRWNSKYLTDSAYTEGSTGKTCLMKAVLNLQDGVNACIMPLLQIDKDSGNPKLLVNAQCTDEFYQGHSALHIAIEKRSLQCVKLLVENGADVHLRACGRFFQKHQGTCFYFGELPLSLAACTKQWDVVTYLLENPHQPASLEATDSLGNTVLHALVMIADNSPENSALVIHMYDGLLQMGARLCPTVQLEEISNHQGLTPLKLAAKEGKIEIFRHILQREFSGPYQPLSRKFTEWCYGPVRVSLYDLSSVDSWEKNSVLEIIAFHCKSPNRHRMVVLEPLNKLLQEKWDRLVSRFFFNFACYLVYMFIFTVVAYHQPSLDQPAIPSSKATFGESMLLLGHILILLGGIYLLLGQLWYFWRRRLFIWISFMDSYFEILFLLQALLTVLSQVLRFMETEWYLPLLVLSLVLGWLNLLYYTRGFQHTGIYSVMIQKVILRDLLRFLLVYLVFLFGFAVALVSLSREARSPKAPEDNNSTVTEQPTVGQEEEPAPYRSILDASLELFKFTIGMGELAFQEQLRFRGVVLLLLLAYVLLTYVLLLNMLIALMSETVNHVADNSWSIWKLQKAISVLEMENGYWWCRRKKHREGRLLKVGTRGDGTPDERWCFRVEEVNWAAWEKTLPTLSEDPSGPGITGNKKNPTSKPGKNSASEEDHLPLQVLQSP |
| 2802 | sp|P60604|UB2G2\_HUMAN | MAGTALKRLMAEYKQLTLNPPEGIVAGPMNEENFFEWEALIMGPEDTCFEFGVFPAILSFPLDYPLSPPKMRFTCEMFHPNIYPDGRVCISILHAPGDDPMGYESSAERWSPVQSVEKILLSVVSMLAEPNDESGANVDASKMWRDDREQFYKIAKQIVQKSLGL |
| 2803 | sp|Q9Y4E8|UBP15\_HUMAN | MAEGGAADLDTQRSDIATLLKTSLRKGDTWYLVDSRWFKQWKKYVGFDSWDKYQMGDQNVYPGPIDNSGLLKDGDAQSLKEHLIDELDYILLPTEGWNKLVSWYTLMEGQEPIARKVVEQGMFVKHCKVEVYLTELKLCENGNMNNVVTRRFSKADTIDTIEKEIRKIFSIPDEKETRLWNKYMSNTFEPLNKPDSTIQDAGLYQGQVLVIEQKNEDGTWPRGPSTPKSPGASNFSTLPKISPSSLSNNYNNMNNRNVKNSNYCLPSYTAYKNYDYSEPGRNNEQPGLCGLSNLGNTCFMNSAIQCLSNTPPLTEYFLNDKYQEELNFDNPLGMRGEIAKSYAELIKQMWSGKFSYVTPRAFKTQVGRFAPQFSGYQQQDCQELLAFLLDGLHEDLNRIRKKPYIQLKDADGRPDKVVAEEAWENHLKRNDSIIVDIFHGLFKSTLVCPECAKISVTFDPFCYLTLPLPMKKERTLEVYLVRMDPLTKPMQYKVVVPKIGNILDLCTALSALSGIPADKMIVTDIYNHRFHRIFAMDENLSSIMERDDIYVFEININRTEDTEHVIIPVCLREKFRHSSYTHHTGSSLFGQPFLMAVPRNNTEDKLYNLLLLRMCRYVKISTETEETEGSLHCCKDQNINGNGPNGIHEEGSPSEMETDEPDDESSQDQELPSENENSQSEDSVGGDNDSENGLCTEDTCKGQLTGHKKRLFTFQFNNLGNTDINYIKDDTRHIRFDDRQLRLDERSFLALDWDPDLKKRYFDENAAEDFEKHESVEYKPPKKPFVKLKDCIELFTTKEKLGAEDPWYCPNCKEHQQATKKLDLWSLPPVLVVHLKRFSYSRYMRDKLDTLVDFPINDLDMSEFLINPNAGPCRYNLIAVSNHYGGMGGGHYTAFAKNKDDGKWYYFDDSSVSTASEDQIVSKAAYVLFYQRQDTFSGTGFFPLDRETKGASAATGIPLESDEDSNDNDNDIENENCMHTN |
| 2804 | sp|Q6NVU6|UFSP1\_HUMAN | MGDKPPGFRGSRDWIGCVEASLCLAHFGGPQGRLCHVPRGVGLHGELERLYSHFAGGGGPVMVGGDADARSKALLGVCVGSGTEAYVLVLDPHYWGTPKSPSELQAAGWVGWQEVSAAFDPNSFYNLCLTSLSSQQQQRTLD |
| 2805 | sp|P35200|UPS2\_YEAST | MKLFQNSYDFNYPWDQVTAANWKKYPNEISTHVIAVDVLRRELKDQGKVLVTERLITVKQGVPKWIMMMLGGTNMSHVREVSVVDLNKKSLTMRSCNLTMCNLLKVYETVTYSPHPDDSANKTLFQQEAQITAYGSIRKLCNKMEDWSVQRFCENAKKGKMGFDAVLQVFSENWEKHVDDLSNQLVSKVNETMEDVKISAGTLLKGTERSGRTILQQNIDLFRDAYNHEN |
| 2806 | sp|O02373|UGDH\_DROME | MKVCCIGAGYVGGPTCAVMALKCPDIVITLVDKSSERIAQWNSDKLPIYEPGLDEVVKKCRNVNLFFSTDIETAIKEADLIFISVNTPTKTCGNGKGRAADLKYVESAARMIAEIAQSNKIVVEKSTVPVRAAESIMHILRANQKPGIHYDILSNPEFLAEGTAINDLLNADRVLIGGEETPEGHQAVEKLSWIYEHWIPKQNILTTNTWSSELSKLAANAFLAQRISSINSLSAVCEATGADVSEVARAVGLDSRIGSKFLQASVGFGGSCFQKDILNLIYICENLNLPEVAAYWQQVIDMNEYQKRRFSQKIIESLFNTVSDKRIAILGFAFKKNTGDTRETAAITVCQTLLEEGAALDIYDPKVEPEQIIDDLTHPSVTESPEKVKKAVQIHSDPYSAVRATHALVICTEWDEFVDLDFKRIYQSMMKPAYIFDGRKILDHERLQQIGFHVQTIGKKYQRTGLLRSWGIVPQL |
| 2807 | sp|P0A8F0|UPP\_ECOLI | MKIVEVKHPLVKHKLGLMREQDISTKRFRELASEVGSLLTYEATADLETEKVTIEGWNGPVEIDQIKGKKITVVPILRAGLGMMDGVLENVPSARISVVGMYRNEETLEPVPYFQKLVSNIDERMALIVDPMLATGGSVIATIDLLKKAGCSSIKVLVLVAAPEGIAALEKAHPDVELYTASIDQGLNEHGYIIPGLGDAGDKIFGTK |
| 2808 | sp|Q3V129|ULK4\_MOUSE | MENFVLYEEIGRGSRTVVYKGRRKGTINFVAILCTEKCKRPEITNWVRLTHEIKHKNIVTFHEWYETSNHLWLVVELCTGGSLETVIAQDENLPEDVVREFGVDLVTGLHHLHRLGILFCDLSPGKILLEGPGTLKFSNFCLAKVAGESLEEFFALVAAEEGGGDSGENALKKSMKTRVRGSLIYAAPEIVKGTEFSVTSDLWSLGCLLYEMFSGKPPFFSETVSELVEKILYEDPLPPIPKDSSFPKASSDFLNLLDGLLQKDPQKRFSWEGVLQHPFWKDALRGEDSGWASEDSPFSRNVMECSGPHDSRELLQSPKNGQAKGQKAAHRLSQSFRLENPTELRPKSIMGGQLNESIFLLSSRPTPRTSAMVELNPGEGEDPSSPQKTSPLSKMTSGHLSQGALESQMRELIYTDSDLVITPIIDNPKIMKQPAIKFDPKILHLPAYSVEKLLVLKDQDWNDFLQQVCSQIDSSEKSTGALRAKLNLLCYLCVVATHKEVATRLLHSPLFQLLIQHLRIAPNWDIRSKVARVVGMLALHTTELQENVPVIEAITLLTELIRENFRSGKLKQCLLPTLGQLLYLVATQEEKNQHSRDCWAVPLAAYTVLMRCLREGEERVVNHMAAKIIENVCTTFSAQAQGFTTGEIGPVLWHLFRHSTVDALRITAISALCRITRQSPTAFQNVIEKVGLNAVISSLASAICKVQQYMLTLFTAMLSCGIHLQRLIQEKDFVSTVIRLLDSPSTPIRAKAFLVLLYILIHNRDMLLLSCQARLVMYIERDSRKTSPGKEQQSGNEYLARCLDLLIQHMVQEPPRILGDILNALANVSGRKHPSTVQGKQLKMCLPMMPVVLHLVMSQVFRPQVVTEEFLFSYGTILSHIKSIDLGETNIDGAIGIVASEEFIKVTLSAFEAVIQYPVLLADYRSTVMDYILPPLVSLVQSQNVEWRLFSLRLLSETTTLLVSQEPEDGDEEASCDSDSSLLALIRDELLPQYEHILMEPDPVPAYALKLLVAMTEHNPAFTRLVEESKLVPLIFEVILEHQESILGNTMQSVIALLNNLVAYKDSNMQLLYEQGLVGHVCNMFTETATLCLDRDNKTNTEPASTLLASLLDILLGMLTYTSRIVRQALQVQKSGSRGDTQAAEDLLLLSKPLTDLISLLIPLLPSEDPEISEVSSKCLSILVQLYGGENPESLSPENMVTFANLLMTKEDPKDQKLLLRILKRMVTSNERLLESLKNTGSLLQALERLAPAHRLRGPWAGISCALFQQRAAAQGIPELPPYGIPCCGPSHKRVTGVKLYPC |
| 2809 | sp|Q92575|UBXN4\_HUMAN | MLWFQGAIPAAIATAKRSGAVFVVFVAGDDEQSTQMAASWEDDKVTEASSNSFVAIKIDTKSEACLQFSQIYPVVCVPSSFFIGDSGIPLEVIAGSVSADELVTRIHKVRQMHLLKSETSVANGSQSESSVSTPSASFEPNNTCENSQSRNAELCEIPPTSDTKSDTATGGESAGHATSSQEPSGCSDQRPAEDLNIRVERLTKKLEERREEKRKEEEQREIKKEIERRKTGKEMLDYKRKQEEELTKRMLEERNREKAEDRAARERIKQQIALDRAERAARFAKTKEEVEAAKAAALLAKQAEMEVKRESYARERSTVARIQFRLPDGSSFTNQFPSDAPLEEARQFAAQTVGNTYGNFSLATMFPRREFTKEDYKKKLLDLELAPSASVVLLPAGRPTASIVHSSSGDIWTLLGTVLYPFLAIWRLISNFLFSNPPPTQTSVRVTSSEPPNPASSSKSEKREPVRKRVLEKRGDDFKKEGKIYRLRTQDDGEDENNTWNGNSTQQM |
| 2810 | sp|Q9VPQ6|USH\_DROME | MLSSNTRGDCSDTAEEMTVDSRDSKDLSAQDIGEQKQQQMEDQLEDQLNDSRDPQNNNNNIDDDADEDAEFEEPEKANPQQDQDLGETEMEQEHDLQQEDLQQELPANSPSTPPRSPSSPQLIPKLEQPATPPSEPEASPCPSPSPCPTPKYPKVRLNALLASDPALKPDAKELTLPDSRLLAPPPLVKPDTQAQPEVAEPLLKPARFMCLPCGIAFSSPSTLEAHQAYYCSHRIKDTDEAGSDKSGAGGSGATAGDAAGLTGGSTEPPAKMARTGKQYGCTQCSYSADKKVSLNRHMRMHQTSPAAPTLAGLPSLLQNGIAPPGVTPNPMEDSSSQQTDRYCSHCDIRFNNIKTYRAHKQHYCSSRRPEGQLTPKPDASPGAGSGPGSAGGSIGVSAQAATPGKLSPQARNKTPTPAMVAVAAAAAAAAASLQATPHSHPPFLALPTHPIIIVPCSLIRAASFIPGPLPTPNSGIVNPETTCFTVDNGTIKPLATALVGATLEPERPSAPSSAAEATEAKSSPPEPKRKEAGLTRESAPLDLSLRRSPITLNSLSLRQRQLRNALLDVEEVLLAGVGTGKENVETPRGGGSVTPEQIVCAPSLPSSPSMSPSPKRRAISPRSSGAGSASSMSPPGLNVAVPHLLDMRSMLPADFGLSESLLAKTNPELALKLAAAAAAAAVAGSSGAAAFPPASLPAQTSSGNPGSGGSAGGAQQPQIYVKKGVSKCMECNIVFCKYENYLAHKQHYCSARSQEGASEVDVKSAVSPSIAGAGGLGAGAAEAASSVETTPVAYQQLICAACGIKYTSLDNLRAHQNYYCPKGGAVAAPAATPTDPGQLGMPKEKCGKCKTLHEIGLPCPPPVANPLAAPTVNPQPATNSLNKCPVCGVVSPTAALAKKHMEMHGTVKAYRCSICQYKGNTLRGMRTHIRTHFDKKTSDVNEELYMTCIFEEDASALSQELVTPTGASTTTGHDSMDHPSQMFNCDYCNYVSTYKGNVLRHMKLMHPHVAINSPSISPDTRDQDVTSNPTTNQHSNSDVSNGEAPSFHIKSEPLDPPPTVNLVHENNNSPIATPHIKAEPIEVGADAAPGGLVPPMTSPLGNSSSVAAAAAAAAEVMKKYCSTCDISFNYVKTYLAHKQFYCKNKPIRPEASDSPSPNHLGGGVAVGLGIGGLVGGHGQQKNKENLQEAAI |
| 2811 | sp|Q9BZX2|UCK2\_HUMAN | MAGDSEQTLQNHQQPNGGEPFLIGVSGGTASGKSSVCAKIVQLLGQNEVDYRQKQVVILSQDSFYRVLTSEQKAKALKGQFNFDHPDAFDNELILKTLKEITEGKTVQIPVYDFVSHSRKEETVTVYPADVVLFEGILAFYSQEVRDLFQMKLFVDTDADTRLSRRVLRDISERGRDLEQILSQYITFVKPAFEEFCLPTKKYADVIIPRGADNLVAINLIVQHIQDILNGGPSKRQTNGCLNGYTPSRKRQASESSSRPH |
| 2812 | sp|Q9H1C4|UN93B\_HUMAN | MEAEPPLYPMAGAAGPQGDEDLLGVPDGPEAPLDELVGAYPNYNEEEEERRYYRRKRLGVLKNVLAASAGGMLTYGVYLGLLQMQLILHYDETYREVKYGNMGLPDIDSKMLMGINVTPIAALLYTPVLIRFFGTKWMMFLAVGIYALFVSTNYWERYYTLVPSAVALGMAIVPLWASMGNYITRMAQKYHEYSHYKEQDGQGMKQRPPRGSHAPYLLVFQAIFYSFFHLSFACAQLPMIYFLNHYLYDLNHTLYNVQSCGTNSHGILSGFNKTVLRTLPRSGNLIVVESVLMAVAFLAMLLVLGLCGAAYRPTEEIDLRSVGWGNIFQLPFKHVRDYRLRHLVPFFIYSGFEVLFACTGIALGYGVCSVGLERLAYLLVAYSLGASAASLLGLLGLWLPRPVPLVAGAGVHLLLTFILFFWAPVPRVLQHSWILYVAAALWGVGSALNKTGLSTLLGILYEDKERQDFIFTIYHWWQAVAIFTVYLGSSLHMKAKLAVLLVTLVAAAVSYLRMEQKLRRGVAPRQPRIPRPQHKVRGYRYLEEDNSDESDAEGEHGDGAEEEAPPAGPRPGPEPAGLGRRPCPYEQAQGGDGPEEQ |
| 2813 | sp|Q9Z1Z0|USO1\_MOUSE | MNFLRGVMGGQSAGPQHTEAETIQKLCDRVASSTLLDDRRNAVRALKSLSKKYRLEVGIQAMEHLIHVLQTDRSDSEIIAYALDTLYNIISNDEEEELEENSTRQSEDLGSQFTEIFIKQPENVTLLLSLLEEFDFHVRWPGVRLLTSLLKQLGPPVQQIILVSPMGVSRLMDLLADSREIIRNDGVLLLQALTRSNGAIQKIVAFENAFERLLDIITEEGNSDGGIVVEDCLILLQNLLKTNNSNQNFFKEGSYIQRMKPWFEVGEENSGWSAQKVTNLHLMLQLVRVLVSPTNPPGATSSCQKAMFQCGLLQQLCTILMATGIPADILTETINTVSEVIRGCQVNQDYFASVNAPSNPPRPAIVVLLMSMVNERQPFVLRCAVLYCFQCFLYKNEKGQGEIVATLLPSTIDATGNSVSAGQLLCGGLFSTDSLSNWCAAVALAHALQGNATQKEQLLRVQLATSIGNPPVSLLQQCTNILSQGSKIQTRVGLLMLLCTWLSNCPIAVTHFLHNSANVPFLTGQIAENLGEEEQLVQGLCALLLGISIYFNDNSLENYTKEKLKQLIEKRIGKENFIEKLGFISKHELYSRASQKPQPNFPSPEYMIFDHEFTKLVKELEGVITKAIYKSSEEDKKEEEVKKTLEQHDNIVTHYKNMIREQDLQLEELKQQVSTLKCQNEQLQTAVTQQASQIQQHKDQYNLLKVQLGKDNHHQGSHGDGAQVNGIQPEEISRLREEIEELKSQQALLQGQLAEKDSLIENLKSSQASGMSEQASATCPPRDPEQVAELKQELTALKSQLCSQSLEITRLQTENCELLQRAETLAKSVPVEGESEHVSAAKTTDVEGRLSALLQETKELKNEIKALSEERTAIQKQLDSSNSTIAILQTEKDKLDLEVTDSKKEQDDLLVLLADQDQKILSLKSKLKDLGHPVEEEDESGDQEDDDDEIDDGDKDQDI |
| 2814 | sp|Q62769|UN13B\_RAT | MSLLCVRVKRAKFQGSPDKFNTYVTLKVQNVKSTTVAVRGDQPSWEQDFMFEISRLDLGLSVEVWNKGLIWDTMVGTVWIALKTIRQSDEEGPGEWSTLEAETLMKNDEICGTKNPTPHKILLGTRFELPFDIPEEEARYWTYKLEQINALADDNEYSSQEESQRKLLPTAAAQCRHWTYLGWGEHQTFEDPDSAVDDRDSDYRSETSNSAPPPYHTTTQPNASAHQFPMPVPLPQQLFLQGSSRDSCNDSMQSYDLDYPERRALSPTSSSRYGSSCNVSRGSSLLSELDQYHEQDDDGRERDSIHSSHSYGSLSRDGQAGLGEQEKALEVACESQKEKTGESKERDDATVCPPSDLMLHKDLTLGPQESFPEEKASSPFTQARAHWFRAVTKVRLQLQEISDDGDPSLPQWLPEGPAGGLYGIDSMPDLRRKKPLPLVSDLAMSLVQSRKAGITSAMATRTSLKDEDLKSHVYKKTLQALIYPISCTTPHNFEVWSATTPTYCYECEGLLWGLARQGMRCSECGVKCHEKCQDLLNADCLQRAAEKSSKHGAEDRTQNIIMAMKDRMKIRERNKPEIFEVIRDVFTVSKVAHVQQMKTVKQSVLDGTSKWSAKITITVVCAQGLQAKDKTGSSDPYVTVQVGKTKKRTKTIFGNLNPVWEEKFHFECHNSSDRIKVRVWDEDDDIKSRVKQRLKRESDDFLGQTIIEVRTLSGEMDVWYNLEKRTDKSAVSGAIRLQINVEIKGEEKVAPYHVQYTCLHENLFHYLTDIQGSGGVWIPDARGDDAWKVYFDETAQEIVDEFAMRYGIESIYQAMTHFACLSSKYMCPGVPAVMSTLLANINAYYAHTTASTNVSASDRFAASNFGKERFVKLLDQLHNSLRIDLSTYRNNFPAGSPERLQDLKSTVDLLTSITFFRMKVQELQSPPRASQVVKDCVKACLNSTYEYIFNNCHDLYSHQYQLQEQPLEEPGPSIRNLDFWPKLITLIVSIIEEDKNSYTPVLNQFPQELNVGKVSAEVMWHLFAQDMKYALEEHEKDRLCKSADYMNLHFKVKWLHNEYVRELPALQGQVPEYPAWFEQFVLQWLDENEDVSLEFLRGGLERDKRDGFQQTSEHALFSCSVVDVFTQLNQSFEIIRKLECPDPSILAHYMRRFAKTIGKVLIQYADILSKNFPAYCTKERLPCILMNNMQQLRVQLEKMFEAMGGKELDSEAADSLKELQVKLNTVLDELSMVFGNSFQVRIDECVRQMADILGQVRGTGNASPNARASVAQDADSVLRPLMDFLDGNLTLFATVCEKTVLKRVLKELWRVVMNTMERVIVLPPLIDQTGTQLILTAAKELSQLSKLKDHMVREETRNLTPKQCAVLDLALDTVKQYFHAGGNGLKKTFLEKSPDLQSLRYALSLYTQTTDTLIKTFVRSQTAQVHDGKGIRFTANEDIRPEKGAGVDDPVGEVSIQVDLFTHPGTGEHKVTVKVVAANDLKWQTAGMFRPFVEVTMVGPHQSDKKRKFTTKSKSNSWTPKYNETFHFLLGNEEGPEAYELQICVKDYCFAREDRVIGLAVMPLRDVAAKGSCACWCPLGRKIHMDETGMTILRILSQRSNDEVAREFVKLKSESRSIEEGS |
| 2815 | sp|P34710|UNC6\_CAEEL | MITSVLRYVLALYFCMGIAHGAYFSQFSMRAPDHDPCHDHTGRPVRCVPEFINAAFGKPVIASDTCGTNRPDKYCTVKEGPDGIIREQCDTCDARNHFQSHPASLLTDLNSIGNMTCWVSTPSLSPQNVSLTLSLGKKFELTYVSMHFCSRLPDSMALYKSADFGKTWTPFQFYSSECRRIFGRDPDVSITKSNEQEAVCTASHIMGPGGNRVAFPFLENRPSAQNFENSPVLQDWVTATDIKVVFSRLSPDQAELYGLSNDVNSYGNETDDEVKQRYFYSMGELAVGGRCKCNGHASRCIFDKMGRYTCDCKHNTAGTECEMCKPFHYDRPWGRATANSANSCVACNCNQHAKRCRFDAELFRLSGNRSGGVCLNCRHNTAGRNCHLCKPGFVRDTSLPMTHRKACKSCGCHPVGSLGKSCNQSSGQCVCKPGVTGTTCNRCAKGYQQSRSTVTPCIKIPTKADFIGSSHSEEQDQCSKCRIVPKRLNQKKFCKRDHAVQMVVVSREMVDGWAKYKIVVESVFKRGTENMQRGETSLWISPQGVICKCPKLRVGRRYLLLGKNDSDHERDGLMVNPQTVLVEWEDDIMDKVLRFSKKDKLGQCPEITSHRY |
| 2816 | sp|Q8IV45|UN5CL\_HUMAN | MCPQESSFQPSQFLLLVGVPVASVLLLAQCLRWHCPRRLLGACWTLNGQEEPVSQPTPQLENEVSRQHLPATLPEMVAFYQELHTPTQGQTMVRQLMHKLLVFSAREVDHRGGCLMLQDTGISLLIPPGAVAVGRQERVSLILVWDLSDAPSLSQAQGLVSPVVACGPHGASFLKPCTLTFKHCAEQPSHARTYSSNTTLLDAKVWRPLGRPGAHASRDECRIHLSHFSLYTCVLEAPVGREARKWLQLAVFCSPLVPGQSHLQLRIYFLNNTPCALQWALTNEQPHGGRLRGPCQLFDFNGARGDQCLKLTYISEGWENVDDSSCQLVPHLHIWHGKCPFRSFCFRRKAADENEDCSALTNEIIVTMHTFQDGLETKYMEILRFQASEEESWAAPPPVSQPPPCNRLPPELFEQLRMLLEPNSITGNDWRRLASHLGLCGMKIRFLSCQRSPAAAILELFEEQNGSLQELHYLMTVMERLDCASAIQNYLSGTHGGSPGPERGGARDNQGLELDEKL |
| 2817 | sp|O75604|UBP2\_HUMAN | MSQLSSTLKRYTESARYTDAHYAKSGYGAYTPSSYGANLAASLLEKEKLGFKPVPTSSFLTRPRTYGPSSLLDYDRGRPLLRPDITGGGKRAESQTRGTERPLGSGLSGGSGFPYGVTNNCLSYLPINAYDQGVTLTQKLDSQSDLARDFSSLRTSDSYRIDPRNLGRSPMLARTRKELCTLQGLYQTASCPEYLVDYLENYGRKGSASQVPSQAPPSRVPEIISPTYRPIGRYTLWETGKGQAPGPSRSSSPGRDGMNSKSAQGLAGLRNLGNTCFMNSILQCLSNTRELRDYCLQRLYMRDLHHGSNAHTALVEEFAKLIQTIWTSSPNDVVSPSEFKTQIQRYAPRFVGYNQQDAQEFLRFLLDGLHNEVNRVTLRPKSNPENLDHLPDDEKGRQMWRKYLEREDSRIGDLFVGQLKSSLTCTDCGYCSTVFDPFWDLSLPIAKRGYPEVTLMDCMRLFTKEDVLDGDEKPTCCRCRGRKRCIKKFSIQRFPKILVLHLKRFSESRIRTSKLTTFVNFPLRDLDLREFASENTNHAVYNLYAVSNHSGTTMGGHYTAYCRSPGTGEWHTFNDSSVTPMSSSQVRTSDAYLLFYELASPPSRM |
| 2818 | sp|P0CB47|UBFL1\_HUMAN | MALPRSQGHWSNKDILRLLECMENNRPSDDNSTFSSTQSHMDWGKVAFKNFSGEMCRLKWLEISCNLRKFGTLKELVLEAKKCVKKMNKSQKYRNGPDFPKRPLTAYNRFFKESWPQYSQMYPGMRSQELTKILSKKYRELPEQMKQKYIQDFRKEKQEFEEKLARFREEHPDLVQKAKKSSVSKRTQNKVQKKFQKNIEEVRSLPKTDRFFKKVKFHGEPQKPPMNGYHKFHQDSWSSKEMQHLSVRERMVEIGRRWQRIPQSQKDHFKSQAEELQKQYKVKLDLWLKTLSPENYAAYKESTYAKGKNMAMTGGPDPRLKQADPQSSSAKGLQEGFGEGQGLQAAGTDSSQTIWVNCHVSMEPEENRKKDREKEESSNSSDCSSGEEIEVDV |
| 2819 | sp|P50102|UBP8\_YEAST | MSICPHIQQVFQNEKSKDGVLKTCNAARYILNHSVPKEKFLNTMKCGTCHEINSGATFMCLQCGFCGCWNHSHFLSHSKQIGHIFGINSNNGLLFCFKCEDYIGNIDLINDAILAKYWDDVCTKTMVPSMERRDGLSGLINMGSTCFMSSILQCLIHNPYFIRHSMSQIHSNNCKVRSPDKCFSCALDKIVHELYGALNTKQASSSSTSTNRQTGFIYLLTCAWKINQNLAGYSQQDAHEFWQFIINQIHQSYVLDLPNAKEVSRANNKQCECIVHTVFEGSLESSIVCPGCQNNSKTTIDPFLDLSLDIKDKKKLYECLDSFHKKEQLKDFNYHCGECNSTQDAIKQLGIHKLPSVLVLQLKRFEHLLNGSNRKLDDFIEFPTYLNMKNYCSTKEKDKHSENGKVPDIIYELIGIVSHKGTVNEGHYIAFCKISGGQWFKFNDSMVSSISQEEVLKEQAYLLFYTIRQVN |
| 2820 | sp|Q24574|UBPE\_DROME | MTDKESEQCTVSVFDQTPGSEQKKINVVVRSHFTVKRVIDLIGTQFSYEKFELLLQPHDNKDLVNLNALESQLMYEVAGFEPQLKNHLILLPSGSWDGDVTKRFELPIKRVVVKKVMKSDGEKAKSPATGEKKKRVVGEKTKKKPASGSSSPSKAKTTSEDSLAKTSISSESSPEKTSKIKTTAAKISKPGSEKAPRASPEECPELSTEINSKNTSSESPVAKKTAKVTSKPTLELLSPIKPSSPIKELDCEPVDTLSKQQLSEQLQLYPQGRNLISPVDDAPSDLFISDAEQLSDDDLALGASASPTMLGPGYDYGAPTGDSDVEGVTGVTDPSTIGTDDGTYPALSNFYRRKYGGDELRAWQRVNTTGADFVSSATTETEAEARQASLGPRGYVGLVNQAMTCYLNSLLQALFMTPEFRNALYRWEFDNDNEAKNIPYQLQKLFLNLQTSPKAAVETTDLTRSFGWDSTEAWQQHDIQELCRVMFDALEHKFKNTKQANLISNLYEGKMNDYVKCLECNTEKTREDTFLDIPLPVRPFGSSSAYGSIEEALRAFVQPETLDGNNQYLCEKCKKKCDAHKGLHFKSFPYILTLHLKRFDFDYQTMHRIKLNDRVTFPQTLNLNTFINRSGNSGEQNSQLNGTVDDCSTADSGSAMEDDNLSSGVVTTASSSQHENDLNDEDEGIDMSSSTSKSAKQGSGPYLYELFAIMIHSGSASGGHYYAYIKDFDNNEWFCFNDQNVTSITQEDIQRSFGGPNGSYYSSAYTSSTNAYMLMYRQVDAKRNELVAKVADFPEHIKTLLPKLHSEEETRVSRLGRHITVTDLALPDLYKPRVYFYNPSLKKMKITRVYVSQSFNINLVLMSAYEMLNVEQFAPLSRCRLVAYNSSMDTIIQSLESCTDPALTELRAAQNYSLDFLLEYRAEDQEFEVYPPNGITWYVFKVDLSTMAMDGPFLVYSAAREREASDVLRRSIALRLHISEQQFLLATVRATVPKAFVSYDPHPTPEALQHLQNMANTQFKSITYFYLNVPNTDAATLEMLGVPTVESVECASGGDVVDAAMMNGVAPGHMSSSNDYDWRRYKRDLVEPMSQPSPSHGHESNSEDSSLSDGDRTLVETDNMAHRGGGDSQVSSTSHSPQLSSPEDEAASHDAMMRVHAYCNGNGSYAAADVVDPLLLPTSTNHFFYATKVECVDVVGTGSSSGHQSDEEAQLRKPTRAYKLLVGTHMRMGAFKKHIEQLIQVPAAHFKLQRKHDNNLSNNQNNSLVHLIEGETLTVELGKTLEPDEFKAKIHFLRLADIDNETSKLPCVCEWVYNANTTAEQAKKELVAKLHRIDAKYATLSVQNCRIWLKGGRIPIKILSDDETLYCDMRSSIAAEFIVQECEEEVDPQPKDDSLTLFVRRWCPAKLEFGKFQEITLDQDSEIRLSLSQISDIPIDKLSYMKLNSNFPCTSISALSVNESSSWYSVPTTLDKYPLNSTQTGNIYLYKDRTVPARELTLEERRLMNAREKARLDRVGCVSTTRYAQRRERALKIYLDSPEKSSNVTASAPMDVHVNN |
| 2821 | sp|Q70CQ1|UBP49\_HUMAN | MDRCKHVGRLRLAQDHSILNPQKWCCLECATTESVWACLKCSHVACGRYIEDHALKHFEETGHPLAMEVRDLYVFCYLCKDYVLNDNPEGDLKLLRSSLLAVRGQKQDTPVRRGRTLRSMASGEDVVLPQRAPQGQPQMLTALWYRRQRLLARTLRLWFEKSSRGQAKLEQRRQEEALERKKEEARRRRREVKRRLLEELASTPPRKSARLLLHTPRDAGPAASRPAALPTSRRVPAATLKLRRQPAMAPGVTGLRNLGNTCYMNSILQVLSHLQKFRECFLNLDPSKTEHLFPKATNGKTQLSGKPTNSSATELSLRNDRAEACEREGFCWNGRASISRSLELIQNKEPSSKHISLCRELHTLFRVMWSGKWALVSPFAMLHSVWSLIPAFRGYDQQDAQEFLCELLHKVQQELESEGTTRRILIPFSQRKLTKQVLKVVNTIFHGQLLSQVTCISCNYKSNTIEPFWDLSLEFPERYHCIEKGFVPLNQTECLLTEMLAKFTETEALEGRIYACDQCNSKRRKSNPKPLVLSEARKQLMIYRLPQVLRLHLKRFRWSGRNHREKIGVHVVFDQVLTMEPYCCRDMLSSLDKETFAYDLSAVVMHHGKGFGSGHYTAYCYNTEGGFWVHCNDSKLNVCSVEEVCKTQAYILFYTQRTVQGNARISETHLQAQVQSSNNDEGRPQTFS |
| 2822 | sp|P13372|VPREB\_MOUSE | MAWTSVLLMLLAYLTGCGPQPMVHQPPLASSSLGATIRLSCTLSNDHNIGIYSIYWYQQRPGHPPRFLLRYFSHSDKHQGPDIPPRFSGSKDTTRNLGYLSISELQPEDEAVYYCAVGLRSQEKKRMEREWEGEKSYTDLGS |
| 2823 | sp|Q39258|VATE1\_ARATH | MNDGDVSRQIQQMVRFIRQEAEEKANEISVSAEEEFNIEKLQLVEAEKKKIRQDYEKKEKQADVRKKIDYSMQLNASRIKVLQAQDDIVNAMKDQAAKDLLNVSRDEYAYKQLLKDLIVQCLLRLKEPSVLLRCREEDLGLVEAVLDDAKEEYAGKAKVHAPEVAVDTKIFLPPPPKSNDPHGLHCSGGVVLASRDGKIVCENTLDARLDVAFRMKLPVIRKSLFGQVTA |
| 2824 | sp|Q9UN37|VPS4A\_HUMAN | MTTSTLQKAIDLVTKATEEDKAKNYEEALRLYQHAVEYFLHAIKYEAHSDKAKESIRAKCVQYLDRAEKLKDYLRSKEKHGKKPVKENQSEGKGSDSDSEGDNPEKKKLQEQLMGAVVMEKPNIRWNDVAGLEGAKEALKEAVILPIKFPHLFTGKRTPWRGILLFGPPGTGKSYLAKAVATEANNSTFFSVSSSDLMSKWLGESEKLVKNLFELARQHKPSIIFIDEVDSLCGSRNENESEAARRIKTEFLVQMQGVGNNNDGTLVLGATNIPWVLDSAIRRRFEKRIYIPLPEEAARAQMFRLHLGSTPHNLTDANIHELARKTEGYSGADISIIVRDSLMQPVRKVQSATHFKKVCGPSRTNPSMMIDDLLTPCSPGDPGAMEMTWMDVPGDKLLEPVVCMSDMLRSLATTRPTVNADDLLKVKKFSEDFGQES |
| 2825 | sp|O75436|VP26A\_HUMAN | MSFLGGFFGPICEIDIVLNDGETRKMAEMKTEDGKVEKHYLFYDGESVSGKVNLAFKQPGKRLEHQGIRIEFVGQIELFNDKSNTHEFVNLVKELALPGELTQSRSYDFEFMQVEKPYESYIGANVRLRYFLKVTIVRRLTDLVKEYDLIVHQLATYPDVNNSIKMEVGIEDCLHIEFEYNKSKYHLKDVIVGKIYFLLVRIKIQHMELQLIKKEITGIGPSTTTETETIAKYEIMDGAPVKGESIPIRLFLAGYDPTPTMRDVNKKFSVRYFLNLVLVDEEDRRYFKQQEIILWRKAPEKLRKQRTNFHQRFESPESQASAEQPEM |
| 2826 | sp|Q86UK7|ZN598\_HUMAN | MAAAGGAEGRRAALEAAAAAAPERGGGSCVLCCGDLEATALGRCDHPVCYRCSTKMRVLCEQRYCAVCREELRQVVFGKKLPAFATIPIHQLQHEKKYDIYFADGKVYALYRQLLQHECPRCPELPPFSLFGDLEQHMRRQHELFCCRLCLQHLQIFTYERKWYSRKDLARHRMQGDPDDTSHRGHPLCKFCDERYLDNDELLKHLRRDHYFCHFCDSDGAQDYYSDYAYLREHFREKHFLCEEGRCSTEQFTHAFRTEIDLKAHRTACHSRSRAEARQNRHIDLQFSYAPRHSRRNEGVVGGEDYEEVDRYSRQGRVARAGTRGAQQSRRGSWRYKREEEDREVAAAVRASVAAQQQEEARRSEDQEEGGRPKKEEAAARGPEDPRGPRRSPRTQGEGPGPKETSTNGPVSQEAFSVTGPAAPGCVGVPGALPPPSPKLKDEDFPSLSASTSSSCSTAATPGPVGLALPYAIPARGRSAFQEEDFPALVSSVPKPGTAPTSLVSAWNSSSSSKKVAQPPLSAQATGSGQPTRKAGKGSRGGRKGGPPFTQEEEEDGGPALQELLSTRPTGSVSSTLGLASIQPSKVGKKKKVGSEKPGTTLPQPPPATCPPGALQAPEAPASRAEGPVAVVVNGHTEGPAPARSAPKEPPGLPRPLGSFPCPTPQEDFPALGGPCPPRMPPPPGFSAVVLLKGTPPPPPPGLVPPISKPPPGFSGLLPSPHPACVPSPATTTTTKAPRLLPAPRAYLVPENFRERNLQLIQSIRDFLQSDEARFSEFKSHSGEFRQGLISAAQYYKSCRDLLGENFQKVFNELLVLLPDTAKQQELLSAHTDFCNREKPLSTKSKKNKKSAWQATTQQAGLDCRVCPTCQQVLAHGDASSHQALHAARDDDFPSLQAIARIIT |
| 2827 | sp|Q9ZU46|ZAR1\_ARATH | MLASLIIFVALLCNVTVISGLNDEGFALLTFKQSVHDDPTGSLNNWNSSDENACSWNGVTCKELRVVSLSIPRKNLYGSLPSSLGFLSSLRHLNLRSNRFYGSLPIQLFHLQGLQSLVLYGNSFDGSLSEEIGKLKLLQTLDLSQNLFNGSLPLSILQCNRLKTLDVSRNNLSGPLPDGFGSAFVSLEKLDLAFNQFNGSIPSDIGNLSNLQGTADFSHNHFTGSIPPALGDLPEKVYIDLTFNNLSGPIPQTGALMNRGPTAFIGNTGLCGPPLKDLCQGYQLGLNASYPFIPSNNPPEDSDSTNSETKQKSSGLSKSAVIAIVLCDVFGICLVGLLFTYCYSKFCACNRENQFGVEKESKKRASECLCFRKDESETPSENVEHCDIVPLDAQVAFNLEELLKASAFVLGKSGIGIVYKVVLENGLTLAVRRLGEGGSQRFKEFQTEVEAIGKLKHPNIASLRAYYWSVDEKLLIYDYVSNGNLATALHGKPGMMTIAPLTWSERLRIMKGIATGLVYLHEFSPKKYVHGDLKPSNILIGQDMEPKISDFGLARLANIAGGSSPTIQSNRIIQTDQQPQERQQHHHKSVSSEFTAHSSSGSYYQAPETLKMVKPSQKWDVYSYGIILLELIAGRSPAVEVGTSEMDLVRWVQVCIEEKKPLCDVLDPCLAPEAETEDEIVAVLKIAISCVNSSPEKRPTMRHVSDTLDRLPVAGD |
| 2828 | sp|Q5ISE2|Z36L3\_MOUSE | MANNNLNRPLNTNVADSSNSSSTPGTAPPPSSSDPQVLGHQAPSSSASSLTEDCSSSFARDLNSYNNGQSGATGAVSWEAPHEPSEANAVSQIHPRNGEHSLQQKPKPQKVSGSSSLATSERYKTELCRPFEESGICKYGHKCQFAHGYRELRTLSRHPKYKTEPCRTFHSVGFCPYGTRCHFIHNQPEQQPVLSESTLEEPSSFNGSNVLHLGVNGEQQPGLQSDSPSGFLSVNSQALQAPLQLNQQALSSGGVMPSSHPAAANLRMMCCRTSSSTTAHDADKDPDKDADKDPSNNSANDALAFPQEPGDFSPVAFQNPNTATTTPTAFYNNQQQMGLAASAQFQMPLARPLPSATIFGQASVGPALTPGAAMAPGAALAPAAALTPAAALAPGAAMALGAAMATGAAMATGAALTPGAALALGAAMAAGAALAPGAAMAPGAAMATGAALAFGAAMATGTTLTPGAAMALGAAMATGAALAPGAAVAPRAALAPRAAFAPGAAALAPRAALPPGAALTPGAALAPGAALAPRAALPPGATLRPGAALIPRAALAPGAALAPGAALTPGAALAPGATLAPRAALAPGAALAPRITITSRAAITPGVAIAPGVATASTGILAPGAATATVGNTSSTTITAATAAEGAAPHFTFQLPDVESESESESLEFDVVTSTLDSLLVSDDEDEDDFLRRSSSSSSLNESEFDNTNSSRRLPIFSRFSDSEK |
| 2829 | sp|Q8N680|ZBTB2\_HUMAN | MDLANHGLILLQQLNAQREFGFLCDCTVAIGDVYFKAHKSVLASFSNYFKMLFVHQTSECVRLKPTDIQPDIFSYLLHLMYTGKMAPQLIDPVRLEQGIKFLHAYPLIQEASLASQGAFSHPDQVFPLASSLYGIQIADHQLRQATKIASAPEKLGRDPRPQTSRISQEQVPEASQLSQLTSNLAQVNRTNMTPSDPLQTSLSPELVSTPVPPPPPGEETNLEASSSDEQPASLTIAHVKPSIMKRNGSFPKYYACHLCGRRFTLRSSLREHLQIHTGVPFTSSQQGESRVPLTLCSNAADLGKDAMEVPEAGMISDSELQHISDSPIIDGQQQSETPPPSDIADIDNLEQADQEREVKRRKYECTICGRKFIQKSHWREHMYIHTGKPFKCSTCDKSFCRANQAARHVCLNQSIDTYTMVDKQTLELCTFEEGSQMDNMLVQTNKPYKCNLCDKTFSTPNEVVKHSCQNQNSDVFALDEGRSILLGSGDSEVTEPDHPVLASIKKEQETVLLD |
| 2830 | sp|Q5JTZ9|SYAM\_HUMAN | MAASVAAAARRLRRAIRRSPAWRGLSHRPLSSEPPAAKASAVRAAFLNFFRDRHGHRLVPSASVRPRGDPSLLFVNAGMNQFKPIFLGTVDPRSEMAGFRRVANSQKCVRAGGHHNDLEDVGRDLSHHTFFEMLGNWAFGGEYFKEEACNMAWELLTQVYGIPEERLWISYFDGDPKAGLDPDLETRDIWLSLGVPASRVLSFGPQENFWEMGDTGPCGPCTEIHYDLAGGVGAPQLVELWNLVFMQHNREADGSLQPLPQRHVDTGMGLERLVAVLQGKHSTYDTDLFSPLLNAIQQGCRAPPYLGRVGVADEGRTDTAYRVVADHIRTLSVCISDGIFPGMSGPPLVLRRILRRAVRFSMEILKAPPGFLGSLVPVVVETLGDAYPELQRNSAQIANLVSEDEAAFLASLERGRRIIDRTLRTLGPSDMFPAEVAWSLSLCGDLGLPLDMVELMLEEKGVQLDSAGLERLAQEEAQHRARQAEPVQKQGLWLDVHALGELQRQGVPPTDDSPKYNYSLRPSGSYEFGTCEAQVLQLYTEDGTAVASVGKGQRCGLLLDRTNFYAEQGGQASDRGYLVRAGQEDVLFPVARAQVCGGFILHEAVAPECLRLGDQVQLHVDEAWRLGCMAKHTATHLLNWALRQTLGPGTEQQGSHLNPEQLRLDVTTQTPLTPEQLRAVENTVQEAVGQDEAVYMEEVPLALTAQVPGLRSLDEVYPDPVRVVSVGVPVAHALDPASQAALQTSVELCCGTHLLRTGAVGDLVIIGDRQLSKGTTRLLAVTGEQAQQARELGQSLAQEVKAATERLSLGSRDVAEALRLSKDIGRLIEAVETAVMPQWQRRELLATVKMLQRRANTAIRKLQMGQAAKKTQELLERHSKGPLIVDTVSAESLSVLVKVVRQLCEQAPSTSVLLLSPQPMGKVLCACQVAQGAMPTFTAEAWALAVCSHMGGKAWGSRVVAQGTGSTTDLEAALSIAQTYALSQL |
| 2831 | sp|O00910|STATA\_DICDI | MSSAEFSMDDFEDTFDSNATISTKDLFEGSDRLPLNQSINTTIQNLYLPNGGFAIGDQSQQQYYQAMPPLNQSDQFNLGRSNNLTPRTNQLQQLQQQQQQQQQPQQQQQQQTYGTQSPIHMSQTPSSPLSSPLPSPTPFSRQQSYNNNNSNNTSSSQNYNNNNININNNNNNNNTNNNNNNNNGNNSNGNNGNNNNNNNNNNNNNTNNNNNNNQQQQQQQQQQQQQQQQQQQQQQQGNPNLSSPQPILDTIYKLLSEQEQTLVQMIHEQSLLLNRLPPTLDENSLAPLKSLSQKQITLSGQMNTEMSALDATKKGMILEPTDLAKLFALKQDLQIQFKQLSLLHNEIQSILNPQHSAPKPNVALVLKSQPFPVVISKGKQLGENQLVVLVLTGARSNFHINGPVKATMICDSHPTNKNNPTTPLEMDSQPIYPATLTAHFPLKFLAGTRKCSVNLKFGVNIRDLDNVTTTVESDASNPFVVITNECQWEGSAGVLLKKDAFDGQLEITWAQFINTLQRHFLIATKQDPVRPKRPLSSYDLKYIQTHFFGNRSIIHQQDFDKFWVWFGKSMQTLRYQRHISTLWQEGIIYGYMGRQEVNDALQNQDPGTFIIRFSERNPGQFGIAYIGVEMPARIKHYLVQPNDTAAAKKTFPDFLSEHSQFVNLLQWTKDTNGAPRFLKLHKDTALGSFAPKRTAPVPVGGYEPLNS |
| 2832 | sp|P42232|STA5B\_MOUSE | MAMWIQAQQLQGDALHQMQALYGQHFPIEVRHYLSQWIESQAWDSIDLDNPQENIKATQLLEGLVQELQKKAEHQVGEDGFLLKIKLGHYATQLQSTYDRCPMELVRCIRHILYNEQRLVREANNGSSPAGSLADAMSQKHLQINQTFEELRLITQDTENELKKLQQTQEYFIIQYQESLRIQAQFAQLGQLNPQERMSRETALQQKQVSLETWLQREAQTLQQYRVELAEKHQKTLQLLRKQQTIILDDELIQWKRRQQLAGNGGPPEGSLDVLQSWCEKLAEIIWQNRQQIRRAEHLCQQLPIPGPVEEMLAEVNATITDIISALVTSTFIIEKQPPQVLKTQTKFAATVRLLVGGKLNVHMNPPQVKATIISEQQAKSLLKNENTRNDYSGEILNNCCVMEYHQATGTLSAHFRNMSLKRIKRSDRRGAESVTEEKFTILFDSQFSVGGNELVFQVKTLSLPVVVIVHGSQDNNATATVLWDNAFAEPGRVPFAVPDKVLWPQLCEALNMKFKAEVQSNRGLTKENLVFLAQKLFNISSNHLEDYNSMSVSWSQFNRENLPGRNYTFWQWFDGVMEVLKKHLKPHWNDGAILGFVNKQQAHDLLINKPDGTFLLRFSDSEIGGITIAWKFDSQERMFWNLMPFTTRDFSIRSLADRLGDLNYLIYVFPDRPKDEVYSKYYTPVPCEPATAKAADGYVKPQIKQVVPEFANASTDAGSGATYMDQAPSPVVCPQAHYNMYPPNPDSVLDTDGDFDLEDTMDVARRVEELLGRPMDSQWIPHAQS |
| 2833 | sp|P12866|STE6\_YEAST | MNFLSFKTTKHYHIFRYVNIRNDYRLLMIMIIGTVATGLVPAITSILTGRVFDLLSVFVANGSHQGLYSQLVQRSMAVMALGAASVPVMWLSLTSWMHIGERQGFRIRSQILEAYLEEKPMEWYDNNEKLLGDFTQINRCVEELRSSSAEASAITFQNLVAICALLGTSFYYSWSLTLIILCSSPIITFFAVVFSRMIHVYSEKENSETSKAAQLLTWSMNAAQLVRLYCTQRLERKKFKEIILNCNTFFIKSCFFVAANAGILRFLTLTMFVQGFWFGSAMIKKGKLNINDVITCFHSCIMLGSTLNNTLHQIVVLQKGGVAMEKIMTLLKDGSKRNPLNKTVAHQFPLDYATSDLTFANVSFSYPSRPSEAVLKNVSLNFSAGQFTFIVGKSGSGKSTLSNLLLRFYDGYNGSISINGHNIQTIDQKLLIENITVVEQRCTLFNDTLRKNILLGSTDSVRNADCSTNENRHLIKDACQMALLDRFILDLPDGLETLIGTGGVTLSGGQQQRVAIARAFIRDTPILFLDEAVSALDIVHRNLLMKAIRHWRKGKTTIILTHELSQIESDDYLYLMKEGEVVESGTQSELLADPTTTFSTWYHLQNDYSDAKTIVDTETEEKSIHTVESFNSQLETPKLGSCLSNLGYDETDQLSFYEAIYQKRSNVRTRRVKVEEENIGYALKQQKNTESSTGPQLLSIIQIIKRMIKSIRYKKILILGLLCSLIAGATNPVFSYTFSFLLEGIVPSTDGKTGSSHYLAKWSLLVLGVAAADGIFNFAKGFLLDCCSEYWVMDLRNEVMEKLTRKNMDWFSGENNKASEISALVLNDLRDLRSLVSEFLSAMTSFVTVSTIGLIWALVSGWKLSLVCISMFPLIIIFSAIYGGILQKCETDYKTSVAQLENCLYQIVTNIKTIKCLQAEFHFQLTYHDLKIKMQQIASKRAIATGFGISMTNMIVMCIQAIIYYYGLKLVMIHEYTSKEMFTTFTLLLFTIMSCTSLVSQIPDISRGQRAASWIYRILDEKHNTLEVENNNARTVGIAGHTYHGKEKKPIVSIQNLTFAYPSAPTAFVYKNMNFDMFCGQTLGIIGESGTGKSTLVLLLTKLYNCEVGKIKIDGTDVNDWNLTSLRKEISVVEQKPLLFNGTIRDNLTYGLQDEILEIEMYDALKYVGIHDFVISSPQGLDTRIDTTLLSGGQAQRLCIARALLRKSKILILDECTSALDSVSSSIINEIVKKGPPALLTMVITHSEQMMRSCNSIAVLKDGKVVERGNFDTLYNNRGELFQIVSNQSS |
| 2834 | sp|Q8N3U4|STAG2\_HUMAN | MIAAPEIPTDFNLLQESETHFSSDTDFEDIEGKNQKQGKGKTCKKGKKGPAEKGKGGNGGGKPPSGPNRMNGHHQQNGVENMMLFEVVKMGKSAMQSVVDDWIESYKHDRDIALLDLINFFIQCSGCKGVVTAEMFRHMQNSEIIRKMTEEFDEDSGDYPLTMAGPQWKKFKSSFCEFIGVLVRQCQYSIIYDEYMMDTVISLLTGLSDSQVRAFRHTSTLAAMKLMTALVNVALNLSINMDNTQRQYEAERNKMIGKRANERLELLLQKRKELQENQDEIENMMNAIFKGVFVHRYRDAIAEIRAICIEEIGIWMKMYSDAFLNDSYLKYVGWTMHDKQGEVRLKCLTALQGLYYNKELNSKLELFTSRFKDRIVSMTLDKEYDVAVQAIKLLTLVLQSSEEVLTAEDCENVYHLVYSAHRPVAVAAGEFLYKKLFSRRDPEEDGMMKRRGRQGPNANLVKTLVFFFLESELHEHAAYLVDSMWDCATELLKDWECMNSLLLEEPLSGEEALTDRQESALIEIMLCTIRQAAECHPPVGRGTGKRVLTAKEKKTQLDDRTKITELFAVALPQLLAKYSVDAEKVTNLLQLPQYFDLEIYTTGRLEKHLDALLRQIRNIVEKHTDTDVLEACSKTYHALCNEEFTIFNRVDISRSQLIDELADKFNRLLEDFLQEGEEPDEDDAYQVLSTLKRITAFHNAHDLSKWDLFACNYKLLKTGIENGDMPEQIVIHALQCTHYVILWQLAKITESSSTKEDLLRLKKQMRVFCQICQHYLTNVNTTVKEQAFTILCDILMIFSHQIMSGGRDMLEPLVYTPDSSLQSELLSFILDHVFIEQDDDNNSADGQQEDEASKIEALHKRRNLLAAFCKLIVYTVVEMNTAADIFKQYMKYYNDYGDIIKETMSKTRQIDKIQCAKTLILSLQQLFNEMIQENGYNFDRSSSTFSGIKELARRFALTFGLDQLKTREAIAMLHKDGIEFAFKEPNPQGESHPPLNLAFLDILSEFSSKLLRQDKRTVYVYLEKFMTFQMSLRREDVWLPLMSYRNSLLAGGDDDTMSVISGISSRGSTVRSKKSKPSTGKRKVVEGMQLSLTEESSSSDSMWLSREQTLHTPVMMQTPQLTSTIMREPKRLRPEDSFMSVYPMQTEHHQTPLDYNRRGTSLMEDDEEPIVEDVMMSSEGRIEDLNEGMDFDTMDIDLPPSKNRRERTELKPDFFDPASIMDESVLGVSMF |
| 2835 | sp|P51650|SSDH\_RAT | MATCFLLRNFCAARPALRPPGRLLREPAGAQRRSYVGGPADLHADLLRGDSFVGGRWLPTPATFPVYDPASGAKLGTVADCGVPEARAAVRAAYDAFSSWKEISVKERSSLLRKWYDLMIQNKDELAKIITAESGKPLKEAQGEILYSAFFLEWFSEEARRVYGDIIYTSAKDKRGLVLKQPVGVASIITPWNFPSAMITRKVGAALAAGCTVVVKPAEDTPYSALALAQLANQAGIPPGVYNVIPCSRTKAKEVGEVLCTDPLVSKISFTGSTATGKILLHHAANSVKRVSMELGGLAPFIVFDSANVDQAVAGAMASKFRNAGQTCVCSNRFLVQRGIHDSFVTKFAEAMKKSLRVGNGFEEGTTQGPLINEKAVEKVEKHVNDAVAKGATVVTGGKRHQSGGNFFEPTLLSNVTRDMLCITEETFGPVAPVIKFDKEEEAVAIANAADVGLAGYFYSQDPAQIWRVAEQLEVGMVGVNEGLISSVECPFGGVKQSGLGREGSKYGIDEYLEVKYVCYGGL |
| 2836 | sp|Q9W6M5|VM3AH\_DEIAC | MIQVLLVTICLAAFPYQGSSIILESGDVNDYEVVYPRKVTALPKGAVQQKYEDAMQYEFKVNGEPVVLHLEKNKHLFSKDYSETHYSPDGREITINPPVEDHCYYHGRIENDGDSTASISACNGLKGNFKLQGETYLIEPMKLSDSEAHAVFKYENVEKEDEAPKMCGVTQKWKSYEPIKKISQLNLIPEQQIYDPFKYVETVVVVDKAMVTKYNGDLDKIKTKMYEAANNMNEMYRYMFFRVVMVGLIIWTEEDKITVKPDVDYTLNAFAEWRKTYLLAEKKHDNAQLITGIDFRGSIIGYAYIGSMCHPKRSVGIIQDYSPINLVLAVIMAHEMGHNLGIHHDDGYCYCGGYPCIMGPSISPEPSKFFSNCSYIQCWDFIMNHNPECIDNEPLGTDIISPPLCGNELLEVGEECDCGTPENCQNECCDAATCKLKSGSQCGHGDCCEQCKFRTSGTECRASMSECDPAEHCTGQSSECPADVFHKNGEPCLDNYGYCYNGNCPIMYHQCYALFGADIYEAEDSCFESNKKGNYYGYCRKENGKKIPCASEDVKCGRLYCKDDSPGQNNPCKMFYSNDDEHKGMVLPGTKCADGKVCSNGHCVDVTTAY |
| 2837 | sp|Q90ZI3|VM3H1\_PROFL | MIQVLLVTICLAVFPYQGSSIILESGNVNDYEVVYPRKVTALPKGAVQQKYEDAMQYEFTVNGEPVVLHLEKNKGLFSEDYSETHYSPDGREITTNPPVEDHCYYHGRIQNDADLTASISACDGLKGHFKLQGETYIIEPLKLPDSEAHAVFKYENVEKEDEAPKMCGVTQSNWESDESIKEDSQSNLTPAQQKYLNAKKYVKFFLVADHIMYLKYGRNLTTLRTRMFDTVNIVNQILQRINIHVALIGIEIWSKEDKIIVQSVPDVTLKLFATWRESVLLKRKNHDNAHLLTGINFNGPTAGLAYLGGICKPMYSAGIVQDHNKIHHLVAIAMAHEMGHNLGMDHDKDTCTCRAKACVMAGTLSCDASYLFSDCSRQEHRAFLIKNMPQCILKKPLKTDVVSPPVCGNYFVEVGEDCDCGSPATCRDPCCDAATCKLRQGAQCAEGLCCDQCRFKAAGTECRAATDECDMADLCTGRSAECTDRFQRNGQPCQNNNGYCYNRTCPTMNNQCIALFGPNAAVSQDACFQFNRQGNYYGYCRKEQNTKIACEPQNVKCGRLYCIDSSPAKKNPCNIIYSPNDEDKGMVLPGTKCADGMACNSNGQCVDVNRTY |
| 2838 | sp|Q91132|VCO3\_NAJKA | MERMALYLVAALLIGFPGSSHGALYTLITPAVLRTDTEEQILVEAHGDSTPKQLDIFVHDFPRKQKTLFQTRVDMNPAGGMLVTPTIEIPAKEVSTDSRQNQYVVVQVTGPQVRLEKVVLLSYQSSFLFIQTDKGIYTPGSPVLYRVFSMDHNTSKMNKTVIVEFQTPEGILVSSNSVDLNFFWPYNLPDLVSLGTWRIVAKYEHSPENYTAYFDVRKYVLPSFEVRLQPSEKFFYIDGNENFHVSITARYLYGEEVEGVAFVLFGVKIDDAKKSIPDSLTRIPIIDGDGKATLKRDTFRSRFPNLNELVGHTLYASVTVMTESGSDMVVTEQSGIHIVASPYQIHFTKTPKYFKPGMPYELTVYVTNPDGSPAAHVPVVSEAFHSMGTTLSDGTAKLILNIPLNAQSLPITVRTNHGDLPRERQATKSMTAIAYQTQGGSGNYLHVAITSTEIKPGDNLPVNFNVKGNANSLKQIKYFTYLILNKGKIFKVGRQPRRDGQNLVTMNLHITPDLIPSFRFVAYYQVGNNEIVADSVWVDVKDTCMGTLVVKGDNLIQMPGAAMKIKLEGDPGARVGLVAVDKAVYVLNDKYKISQAKIWDTIEKSDFGCTAGSGQNNLGVFEDAGLALTTSTNLNTKQRSAAKCPQPANRRRRSSVLLLDSNASKAAEFQDQDLRKCCEDVMHENPMGYTCEKRAKYIQEGDACKAAFLECCRYIKGVRDENQRESELFLARDDNEDGFIADSDIISRSDFPKSWLWLTKDLTEEPNSQGISSKTMSFYLRDSITTWVVLAVSFTPTKGICVAEPYEIRVMKVFFIDLQMPYSVVKNEQVEIRAILHNYVNEDIYVRVELLYNPAFCSASTKGQRYRQQFPIKALSSRAVPFVIVPLEQGLHDVEIKASVQEALWSDGVRKKLKVVPEGVQKSIVTIVKLDPRAKGVGGTQLEVIKARKLDDRVPDTEIETKIIIQGDPVAQIIENSIDGSKLNHLIITPSGCGEQNMIRMAAPVIATYYLDTTEQWETLGINRRTEAVNQIVTGYAQQMVYKKADHSYAAFTNRASSSWLTAYVVKVFAMAAKMVAGISHEIICGGVRWLILNRQQPDGAFKENAPVLSGTMQGGIQGAEEEVYLTAFILVALLESKTICNDYVNSLDSSIKKATNYLLKKYEKLQRPYTTALTAYALAAADQLNDDRVLMAASTGRDHWEEYNAHTHNIEGTSYALLALLKMKKFDQTGPIVRWLTDQNFYGETYGQTQATVMAFQALAEYEIQMPTHKDLNLDITIELPDREVPIRYRINYENALLARTVETKLNQDITVTASGDGKATMTILTFYNAQLQEKANVCNKFHLNVSVENIHLNAMGAKGALMLKICTRYLGEVDSTMTIIDISMLTGFLPDAEDLTRLSKGVDRYISRYEVDNNMAQKVAVIIYLNKVSHSEDECLHFKILKHFEVGFIQPGSVKVYSYYNLDEKCTKFYHPDKGTGLLNKICIGNVCRCAGETCSSLNHQERIDVPLQIEKACETNVDYVYKTKLLRIEEQDGNDIYVMDVLEVIKQGTDENPRAKTHQYISQRKCQEALNLKVNDDYLIWGSRSDLLPTKDKISYIITKNTWIERWPHEDECQEEEFQKLCDDFAQFSYTLTEFGCPT |
| 2839 | sp|Q86BW2|VBP2\_ASCSS | MSKVIFALVLVVVLVACINATYVEFEEAYAPVDCKGQCTTPCEPLTACKEKCAESCETSADKKTCRRNCKKADCEPQDKVCDACRMKCHKACRAANCASECPKHEHKSDTCRACMKTNCK |
| 2840 | sp|Q00731|VEGFA\_MOUSE | MNFLLSWVHWTLALLLYLHHAKWSQAAPTTEGEQKSHEVIKFMDVYQRSYCRPIETLVDIFQEYPDEIEYIFKPSCVPLMRCAGCCNDEALECVPTSESNITMQIMRIKPHQSQHIGEMSFLQHSRCECRPKKDRTKPEKKSVRGKGKGQKRKRKKSRFKSWSVHCEPCSERRKHLFVQDPQTCKCSCKNTDSRCKARQLELNERTCRCDKPRR |
| 2841 | sp|Q9P2Y5|UVRAG\_HUMAN | MSASASVGGPVPQPPPGPAAALPPGSAARALHVELPSQQRRLRHLRNIAARNIVNRNGHQLLDTYFTLHLCSTEKIYKEFYRSEVIKNSLNPTWRSLDFGIMPDRLDTSVSCFVVKIWGGKENIYQLLIEWKVCLDGLKYLGQQIHARNQNEIIFGLNDGYYGAPFEHKGYSNAQKTILLQVDQNCVRNSYDVFSLLRLHRAQCAIKQTQVTVQKIGKEIEEKLRLTSTSNELKKKSECLQLKILVLQNELERQKKALGREVALLHKQQIALQDKGSAFSAEHLKLQLQKESLNELRKECTAKRELFLKTNAQLTIRCRQLLSELSYIYPIDLNEHKDYFVCGVKLPNSEDFQAKDDGSIAVALGYTAHLVSMISFFLQVPLRYPIIHKGSRSTIKDNINDKLTEKEREFPLYPKGGEKLQFDYGVYLLNKNIAQLRYQHGLGTPDLRQTLPNLKNFMEHGLMVRCDRHHTSSAIPVPKRQSSIFGGADVGFSGGIPSPDKGHRKRASSENERLQYKTPPPSYNSALAQPVTTVPSMGETERKITSLSSSLDTSLDFSKENKKKGEDLVGSLNGGHANVHPSQEQGEALSGHRATVNGTLLPSEQAGSASVQLPGEFHPVSEAELCCTVEQAEEIIGLEATGFASGDQLEAFNCIPVDSAVAVECDEQVLGEFEEFSRRIYALNENVSSFRRPRRSSDK |
| 2842 | sp|A3RGC1|VDR\_PIG | MEATAASTSLPDPGDFDRNVPRICGVCGDRATGFHFNAMTCEGCKGFFRRSMKRKALFTCPFNGDCRITKDNRRHCQACRLKRCVDIGMMKEFILTDEEVQRKREMILKRKEEEALKDSLRPKLSEEQQRIIAILLDAHHKTYDPTYADFGQFRPPVRGDEEEGTLPSRSSSAHAPSFSGSSSSSCSDQYTSSPDTMEPASFSHLDLSEEDSDDPSVTLDLSQLSMLPHLADLVSYSIQKVIGFAKMIPGFRDLTAEDQIVLLKSSAIEVIMLRSNQSFTMDDMSWTCGSRDYKYQVSDVAKAGHSLELIEPLIKFQVGLKKLNLHEEEHVLLMAICIVSPDRPGVQDPTLIEAIQDRLSNTLQTYIRCRHPPPGSHLLYAKMIQKLADLRSLNEEHSKQYRCLSFQPECSMKLTPLVLEVFGNEIS |
| 2843 | sp|P46939|UTRO\_HUMAN | MAKYGEHEASPDNGQNEFSDIIKSRSDEHNDVQKKTFTKWINARFSKSGKPPINDMFTDLKDGRKLLDLLEGLTGTSLPKERGSTRVHALNNVNRVLQVLHQNNVELVNIGGTDIVDGNHKLTLGLLWSIILHWQVKDVMKDVMSDLQQTNSEKILLSWVRQTTRPYSQVNVLNFTTSWTDGLAFNAVLHRHKPDLFSWDKVVKMSPIERLEHAFSKAQTYLGIEKLLDPEDVAVQLPDKKSIIMYLTSLFEVLPQQVTIDAIREVETLPRKYKKECEEEAINIQSTAPEEEHESPRAETPSTVTEVDMDLDSYQIALEEVLTWLLSAEDTFQEQDDISDDVEEVKDQFATHEAFMMELTAHQSSVGSVLQAGNQLITQGTLSDEEEFEIQEQMTLLNARWEALRVESMDRQSRLHDVLMELQKKQLQQLSAWLTLTEERIQKMETCPLDDDVKSLQKLLEEHKSLQSDLEAEQVKVNSLTHMVVIVDENSGESATAILEDQLQKLGERWTAVCRWTEERWNRLQEINILWQELLEEQCLLKAWLTEKEEALNKVQTSNFKDQKELSVSVRRLAILKEDMEMKRQTLDQLSEIGQDVGQLLDNSKASKKINSDSEELTQRWDSLVQRLEDSSNQVTQAVAKLGMSQIPQKDLLETVRVREQAITKKSKQELPPPPPPKKRQIHVDIEAKKKFDAISAELLNWILKWKTAIQTTEIKEYMKMQDTSEMKKKLKALEKEQRERIPRADELNQTGQILVEQMGKEGLPTEEIKNVLEKVSSEWKNVSQHLEDLERKIQLQEDINAYFKQLDELEKVIKTKEEWVKHTSISESSRQSLPSLKDSCQRELTNLLGLHPKIEMARASCSALMSQPSAPDFVQRGFDSFLGRYQAVQEAVEDRQQHLENELKGQPGHAYLETLKTLKDVLNDSENKAQVSLNVLNDLAKVEKALQEKKTLDEILENQKPALHKLAEETKALEKNVHPDVEKLYKQEFDDVQGKWNKLKVLVSKDLHLLEEIALTLRAFEADSTVIEKWMDGVKDFLMKQQAAQGDDAGLQRQLDQCSAFVNEIETIESSLKNMKEIETNLRSGPVAGIKTWVQTRLGDYQTQLEKLSKEIATQKSRLSESQEKAANLKKDLAEMQEWMTQAEEEYLERDFEYKSPEELESAVEEMKRAKEDVLQKEVRVKILKDNIKLLAAKVPSGGQELTSELNVVLENYQLLCNRIRGKCHTLEEVWSCWIELLHYLDLETTWLNTLEERMKSTEVLPEKTDAVNEALESLESVLRHPADNRTQIRELGQTLIDGGILDDIISEKLEAFNSRYEDLSHLAESKQISLEKQLQVLRETDQMLQVLQESLGELDKQLTTYLTDRIDAFQVPQEAQKIQAEISAHELTLEELRRNMRSQPLTSPESRTARGGSQMDVLQRKLREVSTKFQLFQKPANFEQRMLDCKRVLDGVKAELHVLDVKDVDPDVIQTHLDKCMKLYKTLSEVKLEVETVIKTGRHIVQKQQTDNPKGMDEQLTSLKVLYNDLGAQVTEGKQDLERASQLARKMKKEAASLSEWLSATETELVQKSTSEGLLGDLDTEISWAKNVLKDLEKRKADLNTITESSAALQNLIEGSEPILEERLCVLNAGWSRVRTWTEDWCNTLMNHQNQLEIFDGNVAHISTWLYQAEALLDEIEKKPTSKQEEIVKRLVSELDDANLQVENVRDQALILMNARGSSSRELVEPKLAELNRNFEKVSQHIKSAKLLIAQEPLYQCLVTTETFETGVPFSDLEKLENDIENMLKFVEKHLESSDEDEKMDEESAQIEEVLQRGEEMLHQPMEDNKKEKIRLQLLLLHTRYNKIKAIPIQQRKMGQLASGIRSSLLPTDYLVEINKILLCMDDVELSLNVPELNTAIYEDFSFQEDSLKNIKDQLDKLGEQIAVIHEKQPDVILEASGPEAIQIRDTLTQLNAKWDRINRMYSDRKGCFDRAMEEWRQFHCDLNDLTQWITEAEELLVDTCAPGGSLDLEKARIHQQELEVGISSHQPSFAALNRTGDGIVQKLSQADGSFLKEKLAGLNQRWDAIVAEVKDRQPRLKGESKQVMKYRHQLDEIICWLTKAEHAMQKRSTTELGENLQELRDLTQEMEVHAEKLKWLNRTELEMLSDKSLSLPERDKISESLRTVNMTWNKICREVPTTLKECIQEPSSVSQTRIAAHPNVQKVVLVSSASDIPVQSHRTSEISIPADLDKTITELADWLVLIDQMLKSNIVTVGDVEEINKTVSRMKITKADLEQRHPQLDYVFTLAQNLKNKASSSDMRTAITEKLERVKNQWDGTQHGVELRQQQLEDMIIDSLQWDDHREETEELMRKYEARLYILQQARRDPLTKQISDNQILLQELGPGDGIVMAFDNVLQKLLEEYGSDDTRNVKETTEYLKTSWINLKQSIADRQNALEAEWRTVQASRRDLENFLKWIQEAETTVNVLVDASHRENALQDSILARELKQQMQDIQAEIDAHNDIFKSIDGNRQKMVKALGNSEEATMLQHRLDDMNQRWNDLKAKSASIRAHLEASAEKWNRLLMSLEELIKWLNMKDEELKKQMPIGGDVPALQLQYDHCKALRRELKEKEYSVLNAVDQARVFLADQPIEAPEEPRRNLQSKTELTPEERAQKIAKAMRKQSSEVKEKWESLNAVTSNWQKQVDKALEKLRDLQGAMDDLDADMKEAESVRNGWKPVGDLLIDSLQDHIEKIMAFREEIAPINFKVKTVNDLSSQLSPLDLHPSLKMSRQLDDLNMRWKLLQVSVDDRLKQLQEAHRDFGPSSQHFLSTSVQLPWQRSISHNKVPYYINHQTQTTCWDHPKMTELFQSLADLNNVRFSAYRTAIKIRRLQKALCLDLLELSTTNEIFKQHKLNQNDQLLSVPDVINCLTTTYDGLEQMHKDLVNVPLCVDMCLNWLLNVYDTGRTGKIRVQSLKIGLMSLSKGLLEEKYRYLFKEVAGPTEMCDQRQLGLLLHDAIQIPRQLGEVAAFGGSNIEPSVRSCFQQNNNKPEISVKEFIDWMHLEPQSMVWLPVLHRVAAAETAKHQAKCNICKECPIVGFRYRSLKHFNYDVCQSCFFSGRTAKGHKLHYPMVEYCIPTTSGEDVRDFTKVLKNKFRSKKYFAKHPRLGYLPVQTVLEGDNLETPITLISMWPEHYDPSQSPQLFHDDTHSRIEQYATRLAQMERTNGSFLTDSSSTTGSVEDEHALIQQYCQTLGGESPVSQPQSPAQILKSVEREERGELERIIADLEEEQRNLQVEYEQLKDQHLRRGLPVGSPPESIISPHHTSEDSELIAEAKLLRQHKGRLEARMQILEDHNKQLESQLHRLRQLLEQPESDSRINGVSPWASPQHSALSYSLDPDASGPQFHQAAGEDLLAPPHDTSTDLTEVMEQIHSTFPSCCPNVPSRPQAM |
| 2844 | sp|Q9SMV6|XPO1A\_ARATH | MAAEKLRDLSQPIDVGVLDATVAAFFVTGSKEERAAADQILRDLQANPDMWLQVVHILQNTNSLDTKFFALQVLEGVIKYRWNALPVEQRDGMKNYISEVIVQLSSNEASFRSERLYVNKLNVILVQIVKHDWPAKWTSFIPDLVAAAKTSETICENCMAILKLLSEEVFDFSRGEMTQQKIKELKQSLNSEFKLIHELCLYVLSASQRQDLIRATLSALHAYLSWIPLGYIFESTLLETLLKFFPVPAYRNLTIQCLTEVAALNFGDFYNVQYVKMYTIFIGQLRIILPPSTKIPEAYSSGSGEEQAFIQNLALFFTSFFKFHIRVLESTPEVVSLLLAGLEYLINISYVDDTEVFKVCLDYWNSLVLELFDAHHNSDNPAVSASLMGLQPFLPGMVDGLGSQVMQRRQLYSHPMSKLRGLMINRMAKPEEVLIVEDENGNIVRETMKDNDVLVQYKIMRETLIYLSHLDHDDTEKQMLRKLNKQLSGEEWAWNNLNTLCWAIGSISGSMAEDQENRFLVMVIRDLLNLCEITKGKDNKAVIASNIMYVVGQYPRFLRAHWKFLKTVVNKLFEFMHETHPGVQDMACDTFLKIVQKCKRKFVIVQVGENEPFVSELLTGLATTVQDLEPHQIHSFYESVGNMIQAESDPQKRDEYLQRLMALPNQKWAEIIGQARHSVEFLKDQVVIRTVLNILQTNTSAATSLGTYFLSQISLIFLDMLNVYRMYSELVSTNITEGGPYASKTSFVKLLRSVKRETLKLIETFLDKAEDQPHIGKQFVPPMMESVLGDYARNVPDARESEVLSLFATIINKYKATMLDDVPHIFEAVFQCTLEMITKNFEDYPEHRLKFFSLLRAIATFCFPALIKLSSPQLKLVMDSIIWAFRHTERNIAETGLNLLLEMLKNFQQSEFCNQFYRSYFMQIEQEIFAVLTDTFHKPGFKLHVLVLQQLFCLPESGALTEPLWDATTVPYPYPDNVAFVREYTIKLLSSSFPNMTAAEVTQFVNGLYESRNDPSGFKNNIRDFLVQSKEFSAQDNKDLYAEEAAAQRERERQRMLSIPGLIAPNEIQDEMVDS |
| 2845 | sp|P15167|VM1AD\_CROAT | MIEVLLVTICLAVFPYQGSSIILESGNVNDYEVVYPRKVTALPKGAVQPKYEDAMQYELKVNGEPVVLHLEKNKELFSKDYSETHYSPDGRKITTNPSVEDHCYYRGRIENDADSTASISACNGLKGHFKLQGEMYLIEPLELSDSEAHAVFKLENVEKEDEAPKMCGVTQNWESYEPIKKASDLNLNPDQQNLPQRYIELVVVADHRVFMKYNSDLNTIRTRVHEIVNFINGFYRSLNIHVSLTDLEIWSNEDQINIQSASSDTLNAFAEWRETDLLNRKSHDNAQLLTAIELDEETLGLAPLGTMCDPKLSIGIVQDHSPINLLMGVTMAHELGHNLGMEHDGKDCLRGASLCIMRPGLTKGRSYEFSDDSMHYYERFLKQYKPQCILNKPLRIDPVSTPVSGNELLEAGEE |
| 2846 | sp|A6N6J5|WDR35\_RAT | MFFYLSKKIAVPNNVKLKCISWNKDQGFIACGGEDGLLKVLRLETQTDDSKLRGLAAPSNLSMNQNLEGHSGAVQVVTWNEQYQKLTTSDQNGLIIVWMLYKGSWYEEMINNRNKSVVRSMSWNADGQKICIVYEDGAVIVGSVDGNRIWGKDLKGIQLCHVTWSADSKILLFGMANGEIHIYDNQGNFIMKMKLNCLVNVTGAISIAGIHWYHGTEGYVEPDCPCLAICFDNGRCQIMRHENDQNPVLIDTGMYVVGIQWNHIGSVLAVAGSQKVVTQDKDVNIVQFYTPFGEHLGTLKVPGKQMCSLSWEGGGLKIALAVDSFIYFANIRPDYKWGYCSNTVVYAYTRPDRPEYCVVFWDTKNNEKYVKYVKSLISITTCGDFCILATKADENHPQFVLVLCNSIGTPLDPKYIDLVPLFVAMTKTHVIAASKEALYTWQYRVAKKLTALEINQITRSRKEGRERIYHVDDVPSGSVDGVFDYSKAIQGTRDPICAITASDKTLIVGRESGVIQRYSFPNVALIQKYSLDCRACQLSLNCNSSRLAIIDIAGVLTFFDLDTRVTDSTGQQVVGELLKLERKDVWDMKWAKDNPDLFAMMEKTRMYVFRNLDPEEPIQTSGYICNFEDLEIKSVLLDEILKNPEHPSKDYIMNFEIRSLRDSRALIEKVGIEDASQFIEDNPHPRLWRLLAEAALQKLDLYTAQQAFVRCKDYQGIKFVKRLGNLQSESMKQAEVIAYFGRFEEAERMYLDMDRRDLAIGLRLKLGDWFRVLQLLKTGSGDADDSLLEQAHNAIGDYFADRQKWMNAVQYYVKGRNQERLAECYYMLEDYEGLENLANSLPENHKLLPEIAQMFVRVGMCEQAVSAFLKCNQPKAAVDTCVHLNQWNKAVELAKSHSMKEIGSLLARYASHLLEKNKTLDAIELYRKASYFFDAAKLMYKIADEEAKKRTKPLRVKKLYVLSALLIEQYHEQMKNAQRGKVKGKNSEATSALAGLLEEEVLSTTSRFTDNAWRGAEAYHFFILAQRQLYEGYVDTALKTALHLRDYEDIIPSVEIYSLLALCACASRAFGTCSKAFIKLESLETLSAEQKQQYEDLALEIFTKHTPKDNRKSELNSLLEGGEGKLPTCIATGSPIIEYQFWVCKVCKHYVLAQEISNYNFCPLCHSSVE |
| 2847 | sp|P10351|XDH\_DROME | MSNSVLVFFVNGKKVTEVSPDPECTLLTFLREKLRLCGTKLGCAEGGCGACTVMVSRLDRRANKIRHLAVNACLTPVCSMHGCAVTTVEGIGSTKTRLHPVQERLAKAHGSQCGFCTPGIVMSMYALLRNAEQPSMRDLEVAFQGNLCRCTGYRPILEGYKTFTKEFACGMGEKCCKVSGKGCGTDAETDDKLFERSEFQPLDPSQEPIFPPELQLSDAFDSQSLIFSSDRVTWYRPTNLEELLQLKAKHPAAKLVVGNTEVGVEVKFKHFLYPHLINPTQVKELLEIKENQDGIYFGAAVSLMEIDALLRQRIEQLPESETRLFQCTVDMLHYFAGKQIRNVACLGGNIMTGSPISDMNPVLSAAGAQLEVASFVDGKLQKRSVHMGTGFFTGYRRNVIEAHEVLLGIHFRKTTPDQYIVAFKQARRRDDDIAIVNAAINVRFEEKSNIVAEISMAFGGMAPTTVLAPRTSQLMVGQEWSHQLVERVAESLCTELPLAASAPGGMIAYRRALVVSLFFKAYLAISLKLSKSGITSSDALPSEERSGAETFHTPVLKSAQLFERVCSDQPICDPIGRPKVHAAALKQATGEAIYTDDIPRMDGEVYLAFVLSTKPRAKITKLDASEALALDGVHQFFCYKDLTEHENEVGPVFHDEHVFAAGEVHCYGQIVGAIAADNKALAQRAARLVKVEYEELSPVIVTIEQAIEHKSYFPDYPRFVTKGNVEEALAQADHTFEGTCRMGGQEHFYLETHAALAVPRDSDELELFCSTQHPSEVQKLVAHVTALPAHRVVCRAKRLGGGFGGKESRGISVALPVALAAYRMGRPVRCMLDRDEDMLITGTRHPFLFKYKVGFTKEGLITACDIECYNNAGWSMDLSFSVLERAMFHFENCYRIPNVRVGGWVCKTNLPSNTAFRGFGGPQGMYAGEHIIRDVARIVGRDVVDVMRLNFYKTGDYTHYHQQLEHFPIERCLEDCLKQSRYDEKRQEIARFNRENRWRKRGMAVVPTKYGIAFGVMHLNQAGSLINIYGDGSVLLSHGGVEIGQGLNTKMIQCAARALGIPSELIHISETATDKVPNTSPTAASVGSDLNGMAVLDACEKLNKRLAPIKEALPGGTWKEWINKAYFDRVSLSATGFYAMPGIGYHPETNPNARTYSYYTNGVGVTVVEIDCLTGDHQVLSTDIVMDIGSSLNPAIDIGQIEGAFMQGYGLFTLEELMYSPQGMLYSRGPGMYKLPGFADIPGEFNVSLLTGAPNPRAVYSSKAVGEPPLFIGSSAFFAIKEAIAAAREDQGLSGDFPLEAPSTSARIRIACQDKFTELLEIPEPGSFTPWNIVP |
| 2848 | sp|P38506|XNI\_ECOLI | MAVHLLIVDALNLIRRIHAVQGSPCVETCQHALDQLIMHSQPTHAVAVFDDENRSSGWRHQRLPDYKAGRPPMPEELHDEMPALRAAFEQRGVPCWSTSGNEADDLAATLAVKVTQAGHQATIVSTDKGYCQLLSPTLRIRDYFQKRWLDAPFIDKEFGVQPQQLPDYWGLAGISSSKVPGVAGIGPKSATQLLVEFQSLEGIYENLDAVAEKWRKKLETHKEMAFLCRDIARLQTDLHIDGNLQQLRLVR |
| 2849 | sp|Q10953|WRM1\_CAEEL | MDVDCAETFSQPCTPLNFNPMTPSTSRVSTPVRPSSTMSARQYSGSPFKAQPQNMEPSNSRVQELREAAVGKRSYTNAWMQGTYAPPQMAGQQQRFSRPPSVIGSTMSHMTNMSEMTAYSYGGLSMLSVNTEMGEFNNFVNQAPYQRALTRVSQVSENQDPTNRQYPMTAPEIIENLESTELINQAAAIRALEPIVKAGGMLQTWGPKGAEPIIRALFQVLIPRPVENENVIRKAFEILHHSILLSNKEIRRIDRMFFRLNAALMDPNGPPVFNVPKPYSIYEIVMTRAIQLDTKFESSAMVLLVHLCCKPHFMKIFFGEDETQQSPAHRRLHKIVIEFAIGNLRRPETKSKNKGLCVSIIKNLSNKNATIKDMSERLGVVSLFHQIMQNEVIHEDLLWSTMQALTVFCGDVKNGTHFVQMGGAQVLCGLLSHGSTRLLHELLKCLRRVSDLPAIQEQDMKESIHCIVQLIGCSDVTIVELATGTLRNIGLHNKMNKAFMVQDGVTSHAIAVLRTSEQFTYQPHANIDLYRKQILSIYENCLSVLNNVTSMAPQDIKESAVSACRMISENADSAYVLLHYFNVGNRKCRKLAVTVMKRVIETVPAFADPFVDLLGTTNEPLPILLLQRAFQSLDEWRKTSVEMMNCDGRSAEQRRELDDRRKDHEDIVKRSVGLLTNLCSQANPRFFHSLKLVLTNGTLNPFQWLTHEMSDGILQEWLAFILSICSRDESLQTFMMYRFLEQAKMTEAFFAELKARRQNSNIQTMLSKIIDLGRHQQRIVSQQHQQHQMQHHRQLM |
| 2850 | sp|Q0IIJ3|WASF1\_BOVIN | MPLVKRNIDPRHLCHTALPRGIKNELECVTNISLANIIRQLSSLSKYAEDIFGELFNEAHSFSFRVNSLQERVDRLSVSVTQLDPKEEELSLQDITMRKAFRSSTIQDQQLFDRKTLPIPLQETYDVCEQPPPLNILTPYRDDGKEGLKFYTNPSYFFDLWKEKMLQDTEDKRKEKRKQKQKNLDRPHEPEKVPRAPHDRRREWQKLAQGPELAEDDANLLHKHIEVANGPASHFETRPQTYVDHMDGSYSLSALPFSQMSELLTRAEERVLVRPHEPPPPPPMHGAGDAKPIPTCISSATGLIENRPQSPATGRTPVFVSPTPPPPPPPLPSALSTSSLRASMTSTPPPPVPPPPPPPTTALQAPAVPPPPAPLQIAPGVLHPAPPPIAPPLVQPSPPVARAAPVCETVPVHPLPQGEVQGLPPPPPPPPLPPPGIRPSSPVTVAALAHPPSGLHPTPSTAPGPHVPLMPPSPPSQVTPASEPKRHPSTLPVISDARSVLLEAIRKGIQLRKVEEQREQEAKHERIENDVATILSRRIAVEYSDSEDDSEFDEVDWLE |
| 2851 | sp|F1QC45|XRP2\_DANRE | MGCFFSKKSRRKSPKKDAALPTGDESATGNDLAETNNTALGSNSNQEAPKQYSWDKREKVDPKDFMLTGLKNETVGRLPGKLNGQQFVIQDCENCNIFVLDHSATITIDDCVNCRIVLGPVKGSVFFRDCKDIKCVVACQQFRTRDCKKMDVFLCCATQPIIESSTGMKFGCFQYYYPELAFHFKDAGLSIFNNNWSNIHDFTPVSGETNWSLLPEDAVVLDHVPLPDPESEFKSVRIATEAGRSIVPLTKGSRRTESEESCLFVFFAGDYTTANARKLIDEATAKGFVLIQTKEVSMRPEDVSRVFQNNAESLTEWITKGPVVALELNGDGVVEACRSFANEVFNGTQLFVSESKNTSSRDVDNFFNFADMQMGL |
| 2852 | sp|Q93097|WNT2B\_HUMAN | MLRPGGAEEAAQLPLRRASAPVPVPSPAAPDGSRASARLGLACLLLLLLLTLPARVDTSWWYIGALGARVICDNIPGLVSRQRQLCQRYPDIMRSVGEGAREWIRECQHQFRHHRWNCTTLDRDHTVFGRVMLRSSREAAFVYAISSAGVVHAITRACSQGELSVCSCDPYTRGRHHDQRGDFDWGGCSDNIHYGVRFAKAFVDAKEKRLKDARALMNLHNNRCGRTAVRRFLKLECKCHGVSGSCTLRTCWRALSDFRRTGDYLRRRYDGAVQVMATQDGANFTAARQGYRRATRTDLVYFDNSPDYCVLDKAAGSLGTAGRVCSKTSKGTDGCEIMCCGRGYDTTRVTRVTQCECKFHWCCAVRCKECRNTVDVHTCKAPKKAEWLDQT |
| 2853 | sp|P61965|WDR5\_MOUSE | MATEEKKPETEAARAQPTPSSSATQSKPTPVKPNYALKFTLAGHTKAVSSVKFSPNGEWLASSSADKLIKIWGAYDGKFEKTISGHKLGISDVAWSSDSNLLVSASDDKTLKIWDVSSGKCLKTLKGHSNYVFCCNFNPQSNLIVSGSFDESVRIWDVKTGKCLKTLPAHSDPVSAVHFNRDGSLIVSSSYDGLCRIWDTASGQCLKTLIDDDNPPVSFVKFSPNGKYILAATLDNTLKLWDYSKGKCLKTYTGHKNEKYCIFANFSVTGGKWIVSGSEDNLVYIWNLQTKEIVQKLQGHTDVVISTACHPTENIIASAALENDKTIKLWKSDC |
| 2854 | sp|P28466|WNT5\_DROME | MSCYRKRHFLLWLLRAVCMLHLTARGAYATVGLQGVPTWIYLGLKSPFIEFGNQVEQLANSSIPLNMTKDEQANMHQEGLRKLGTFIKPVDLRDSETGFVKADLTKRLVFDRPNNITSRPIHPIQEEMDQKQIILLDEDTDENGLPASLTDEDRKFIVPMALKNISPDPRWAATTPSPSALQPNAKAISTIVPSPLAQVEGDPTSNIDDLKKHILFLHNMTKTNSNFESKFVKFPSLQKDKAKTSGAGGSPPNPKRPQRPIHQYSAPIAPPTPKVPAPDGGGVGGAAYNPGEQPIGGYYQNEELANNQSLLKPTDTDSHPAAGGSSHGQKNPSEPQVILLNETLSTETSIEADRSPSINQPKAGSPARTTKRPPCLRNPESPKCIRQRRREEQQRQRERDEWFRGQSQYMQPRFEPIIQTINNTKRFAVSIEIPDSFKVSSEGSDGELLSRVERSQPSISSSSSSSSSSSRKIMPDYIKVSMENNTSVTDYFKHDVVMTSADVASDREFLIKNMEEHGGAGSANSHHNDTTPTADAYSETIDLNPNNCYSAIGLSNSQKKQCVKHTSVMPAISRGARAAIQECQFQFKNRRWNCSTTNDETVFGPMTSLAAPEMAFIHALAAATVTSFIARACRDGQLASCSCSRGSRPKQLHDDWKWGGCGDNLEFAYKFATDFIDSREKETNRETRGVKRKREEINKNRMHSDDTNAFNIGIKRNKNVDAKNDTSLVVRNVRKSTEAENSHILNENFDQHLLELEQRITKEILTSKIDEEEMIKLQEKIKQEIVNTKFFKGEQQPRKKKRKNQRAAADAPAYPRNGIKESYKDGGILPRSTATVKARSLMNLHNNEAGRRAVIKKARITCKCHGVSGSCSLITCWQQLSSIREIGDYLREKYEGATKVKINKRGRLQIKDLQFKVPTAHDLIYLDESPDWCRNSYALHWPGTHGRVCHKNSSGLESCAILCCGRGYNTKNIIVNERCNCKFHWCCQVKCEVCTKVLEEHTCK |
| 2855 | sp|P28047|WNT7B\_MOUSE | MHRNFRKWIFYVFLCFGVLYVKLGALSSVVALGANIICNKIPGLAPRQRAICQSRPDAIIVIGEGAQMGIDECQHQFRFGRWNCSALGEKTVFGQELRVGSREAAFTYAITAAGVAHAVTAACSQGNLSNCGCDREKQGYYNQAEGWKWGGCSADVRYGIDFSRRFVDAREIKKNARRLMNLHNNEAGRKVLEDRMKLECKCHGVSGSCTTKTCWTTLPKFREVGHLLKEKYNAAVQVEVVRASRLRQPTFLRIKQLRSYQKPMETDLVYIEKSPNYCEEDAATGSVGTQGRLCNRTSPGADGCDTMCCGRGYNTHQYTKVWQCNCKFHWCCFVKCNTCSERTEVFTCK |
| 2856 | sp|P40589|WNT4\_DROME | MPSPTGVFVLMILTHLSFGLGQVRNEDQLLMVGQNGDLDSSNPAIHHQQHQQHQQHQQHQQHQSNHNLNNGNMNSTILNTLMGNNAGQVVNSSPGGGGSMINQLGSSTSSVPSVIGGGVGSVGNPWHSAVGLGVPGNGMGLPSSHGLGGNMGSHPHGHALAGLAKLGIIVPGGQGLPGNLGYGGTMLNGGGVGGAAGMGLGIGSNTNNMDMQQGLYNEHFISEHTVMAVFTSQGQVGGPCRYMPATRRQNHQCRKETGLPGTLSEARRLATTHCEEQFRYDRWNCSIETRGKRNIFKKLYKETAFVHALTAAAMTHSIARACAEGRMTKCSCGPKKHNREAQDFQWGGCNDNLKHGKRVTRSFLDLRGGDGDEVSEILRHDSEVGIEAVSSQMMDKCKCHGVSGSCSMKTCWKKMADFNATATLLRQKYNEAIRKAPNQRSMRQVSSSRMKKPKQRRKKPQQSQYTTLYYLETSPSYCAVTKDRQCLHPDNCGTLCCGRGYTTQVVKQVEKCRCRFNNGRCCQLICDYCQRLENKYFCK |
| 2857 | sp|Q7YWX7|WLS\_CAEEL | MAGGAVIENLSNRKLFVIFAGLLVIQIMFFLIGAWYAPSPSSYMEFEMITCRDETKGLSGEWIHRDNCQQISELSEYTPSSFDLREIVFIAKMPHTRDGIELEYSPWFQFLLGVLHVDVEYSEHFKYVAHAPLELEVRMGYRDKESKKNEWKELVTSNVTRILECTIAEDEKKAGGTYDCDMLDLFELGSSSYPFYLINIRIPINQQACQFDNKSANCQIGKLTGLRLIEIHQNGGFTLVWLWTKTFMTPVVAICLWWYYNRINQLARNPLLLERAILLLGLSLVILDFPIEWISLTYRIPFLLLISDLRQGLFYTVLFSFWLIFAGEHLIDDNTRNNLKSYRFNLSFIITASLGLLIYDLIERGIQLYDPFYSVWSSPTGSQIAYFAIFISAISTVAYFIFLFFKIARVWSTIKSKRSAQIYQTSENRRLKVEGVIYRFKFLMLFTLLCSAFTIAAYFMKQYGEAQLHGDEARDGFLTGSTSAFFTGAFGMCNIYVLLLLAMYAPSHKHYRGASQLIDENDDDEIMEDPSNQHTESNAMTTFLKPSTD |
| 2858 | sp|P40046|VTC1\_YEAST | MSSAPLLQRTPGKKIALPTRVEPKVFFANERTFLSWLNFTVMLGGLGVGLLNFGDKIGRVSAGLFTFVAMGTMIYALVTYHWRAAAIRRRGSGPYDDRLGPTLLCFFLLVAVIINFILRLKYNDANTKL |
| 2859 | sp|Q19848|VRK1\_CAEEL | MPPKKAPAKKLHELAAEVRVGHKINDISKKTFIVGKQFATGGFGRIHTCTEEGKSQQMVMKIEPSTNGPLLTEVVVFNRILKKELIESYKKKKKISWIGLPYLIANGYFTYESEKMRYMIIPKYATSLEAVRETNGGTLAMKDSLTVASCILDALEYLHESDYAHADVKAANILLEKQGVYSTAVLVDFGLAHRTTNNVDKPDKKRAHNGTCIFTSTDAHRGNNPSFRGDIEILAYNLMMWATGTLPWMALESSPEKVFDAKQKFIAGLPGTLQNVLKNESSAVVGCIASMFDISMKTNYTDKVDMGKLKKLVTDAIQKTSSDGKKTPTRQKKLAEEDKNAVTPKRSTRRLAVKEESDNKDNDEVEVKPEKKATPRKRTTRKAVEVNNDSDDNEEQYENPKSKSSRTQTKSKRAKEEDVDDEEEIIIPKSSRSRSKVQLSGEGSDVTTPSSAASTSRSRSIRLGLTSSTASSNKVAKKIEQKYKRLSMNKSSLVPVTISVASDKSPTTSTPSSSSGLRSKRKSSEDVGEGITLKTQVLITPAIKKAKTKSGISSATKASPTELRRVPGVRNFPKGRRSMIIKETSAKYKERLASRQTKPTFDDSSCSSEV |
| 2860 | sp|Q8W5B1|VRN2\_ARATH | MCRQNCRAKSSPEEVISTDENLLIYCKPVRLYNIFHLRSLGNPSFLPRCLNYKIGAKRKRKSRSTGMVVFNYKDCNNTLQRTEVREDCSCPFCSMLCGSFKGLQFHLNSSHDLFEFEFKLLEEYQTVNVSVKLNSFIFEEEGSDDDKFEPFSLCSKPRKRRQRGGRNNTRRLKVCFLPLDSPSLANGTENGIALLNDGNRGLGYPEATELAGQFEMTSNIPPAIAHSSLDAGAKVILTTEAVVPATKTRKLSAERSEARSHLLLQKRQFYHSHRVQPMALEQVMSDRDSEDEVDDDVADFEDRQMLDDFVDVNKDEKQFMHLWNSFVRKQRVIADGHISWACEVFSRFYEKELHCYSSLFWCWRLFLIKLWNHGLVDSATINNCNTILENCRNTSVTNNNNNSVDHPSDSNTNNNNIVDHPNDIKNKNNVDNKDNNSRDK |
| 2861 | sp|Q9UM01|YLAT1\_HUMAN | MVDSTEYEVASQPEVETSPLGDGASPGPEQVKLKKEISLLNGVCLIVGNMIGSGIFVSPKGVLIYSASFGLSLVIWAVGGLFSVFGALCYAELGTTIKKSGASYAYILEAFGGFLAFIRLWTSLLIIEPTSQAIIAITFANYMVQPLFPSCFAPYAASRLLAAACICLLTFINCAYVKWGTLVQDIFTYAKVLALIAVIVAGIVRLGQGASTHFENSFEGSSFAVGDIALALYSALFSYSGWDTLNYVTEEIKNPERNLPLSIGISMPIVTIIYILTNVAYYTVLDMRDILASDAVAVTFADQIFGIFNWIIPLSVALSCFGGLNASIVAASRLFFVGSREGHLPDAICMIHVERFTPVPSLLFNGIMALIYLCVEDIFQLINYYSFSYWFFVGLSIVGQLYLRWKEPDRPRPLKLSVFFPIVFCLCTIFLVAVPLYSDTINSLIGIAIALSGLPFYFLIIRVPEHKRPLYLRRIVGSATRYLQVLCMSVAAEMDLEDGGEMPKQRDPKSN |
| 2862 | sp|Q04214|YM13B\_YEAST | MESQQLSQHSPISHGSACASVTSKEVQTTQDPLDISASKTEECEKVSTQANSQQPTTPLSSAVPENHHHASPQAAQVPLPQNGPYPQQRMMNTQQANISGWPVYGHPSLMPYPPYQMSPMYAPPGAQSQFTQYPQYVGTHLNTPSPESGNSFPDSSSAKSNMTSTNQHVRPPPILTSPNDFLNWVKIYIKFLQNSNLGDIIPTATRKAVRQMTDDELTFLCHTFQLFAPSQFLPPWVKDILSVDYTDIMKILSKSINKMQSDTQEVNDITTLATLHYNGSTPADAFEAEVTNILDRLNNNGIPINNKVACQFIMRGLSGEYKFLRYARHRCIHMTVADLFSDIHSMYEEQQESKRNKSTHRRSPSDEKKDSRTYTNTTKPKSITRNSQKPNNSQSRTARAHNVSTFNNSPGPDNDLIRGSTTEPIQLKNTHDLHLGQELTESTVNHTNHSDDKLPGHLLLDSGASRTLIRSAHHIHSASSNPDINVVDAQKRNIPINAIGDLQFHFQDNTKTSIKVLHTPNIAYDLLSLNELAAVDITACFTKNVLERSDGTVLAPIVKYGDFYWVSKKYLLPSNISVPTINNVHTSESTRKYPYPFIHRMLAHANAQTIRYSLKNNTITYFNESDVDWSSAIDYQCPDCLIGKSTKHRHIKGSRLKYQNSYEPFQYLHTDIFGPVHNLPKSAPSYFISFTDETTKFRWVYPLHDRREDSILDVFTTILAFIKNQFQASVLVIQMDRGSEYTNRTLHKFLEKNGITPCYTTTADSRAHGVAERLNRTLLDDCRTQLQCSGLPNHLWFSAIEFSTIVRNSLASPKSKKSARQHAGLAGLDISTLLPFGQPVIVNDHNPNSKIHPRGIPGYALHPSRNSYGYIIYLPSLKKTVDTTNYVILQGKESRLDQFNYDALTFDEDLNRLTASYHSFIASNEIQQSNDLNIESDHDFQSDIELHPEQLRNVLSKAVSPTDSTPPSTHTEDSKRVSKTNIRAPREVDPNISESNILPSKKRSSTPQISDIESTGSGGMHRLDVPLLAPMSQSNTHESSHASKSKDFRHSDSYSDNETNHTNVPISSTGGTNNKTVPQTSEQETEKRIIHRSPSIDTSSSESNSLHHVVPIKTSDTCPKENTEESIIADLPLPDLPPEPPTELSDSFKELPPINSRQTNSSLGGIGDSNAYTTINSKKRSLEDNETEIKVSRDTWNTKNMRSLEPPRSKKRIHLIAAVKAVKSIKPIRTTLRYDEAITYNKDIKEKEKYIEAYHKEVNQLLKMKTWDTDKYYDRKEIDPKRVINSMFIFNRKRDGTHKARFVARGDIQHPDTYDSGMQSNTVHHYALMTSLSLALDNNYYITQLDISSAYLYADIKEELYIRPPPHLGMNDKLIRLKKSLYGLKQSGANWYETIKSYLIKQCGMEEVRGWSCVFENSQVTICLFVDDMVLFSKNLNSNKRIIDKLKMQYDTKIINLGESDEEIQYDILGLEIKYQRGKYMKLGMENSLTEKIPKLNVPLNPKGRKLSAPGQPGLYIDQQELELEEDDYKMKVHEMQKLIGLASYVGYKFRFDLLYYINTLAQHILFPSKQVLDMTYELIQFIWNTRDKQLIWHKSKPVKPTNKLVVISDASYGNQPYYKSQIGNIYLLNGKVIGGKSTKASLTCTSTTEAEIHAISESVPLLNNLSYLIQELDKKPITKGLLTDSKSTISIIISNNEEKFRNRFFGTKAMRLRDEVSGNHLHVCYIETKKNIADVMTKPLPIKTFKLLTNKWIH |
| 2863 | sp|O95125|ZN202\_HUMAN | MATAVEPEDQDLWEEEGILMVKLEDDFTCRPESVLQRDDPVLETSHQNFRRFRYQEAASPREALIRLRELCHQWLRPERRTKEQILELLVLEQFLTVLPGELQSWVRGQRPESGEEAVTLVEGLQKQPRRPRRWVTVHVHGQEVLSEETVHLGVEPESPNELQDPVQSSTPEQSPEETTQSPDLGAPAEQRPHQEEELQTLQESEVPVPEDPDLPAERSSGDSEMVALLTALSQGLVTFKDVAVCFSQDQWSDLDPTQKEFYGEYVLEEDCGIVVSLSFPIPRPDEISQVREEEPWVPDIQEPQETQEPEILSFTYTGDRSKDEEECLEQEDLSLEDIHRPVLGEPEIHQTPDWEIVFEDNPGRLNERRFGTNISQVNSFVNLRETTPVHPLLGRHHDCSVCGKSFTCNSHLVRHLRTHTGEKPYKCMECGKSYTRSSHLARHQKVHKMNAPYKYPLNRKNLEETSPVTQAERTPSVEKPYRCDDCGKHFRWTSDLVRHQRTHTGEKPFFCTICGKSFSQKSVLTTHQRIHLGGKPYLCGECGEDFSEHRRYLAHRKTHAAEELYLCSECGRCFTHSAAFAKHLRGHASVRPCRCNECGKSFSRRDHLVRHQRTHTGEKPFTCPTCGKSFSRGYHLIRHQRTHSEKTS |
| 2864 | sp|O55174|ZNT4\_RAT | MAGPGAWKRLKSLLRKDDAPLFLNDTSAFDFLDEVSDEGLSRFNKLRVVVADDDSEAPERPVNGAHPALQADDDSLLDQELPLTNSQLSLKMDPCDNCSKRRELLKQRKVKTRLTIAAVLYLLFMIGELVGGYMANSLAIMTDALHMLTDLSAIILTLLALWLSSKSPTRRFTFGFHRLEVLSAMISVMLVYVLMGFLLYEAMQRTIHMNYEINGDVMLITAAVGVAVNVIMGFLLNQSGHHHSHAHSHSLPSNSPSMVSSGHSHGQDSLAVRAAFVHALGDLVQSVGVLIAAYIIRFKPEYKIADPICTYIFSLLVAFTTLRIIWDTVVIILEGVPSHLNVDYIKESLMKIEDVYSVEDLNIWSLTSGKATAIVHMQLIPGSSSKWEEVQSKAKHLLLNTFGMYKCTVQLQSYRQEATRTCANCQSSST |
| 2865 | sp|O75362|ZN217\_HUMAN | MQSKVTGNMPTQSLLMYMDGPEVIGSSLGSPMEMEDALSMKGTAVVPFRATQEKNVIQIEGYMPLDCMFCSQTFTHSEDLNKHVLMQHRPTLCEPAVLRVEAEYLSPLDKSQVRTEPPKEKNCKENEFSCEVCGQTFRVAFDVEIHMRTHKDSFTYGCNMCGRRFKEPWFLKNHMRTHNGKSGARSKLQQGLESSPATINEVVQVHAAESISSPYKICMVCGFLFPNKESLIEHRKVHTKKTAFGTSSAQTDSPQGGMPSSREDFLQLFNLRPKSHPETGKKPVRCIPQLDPFTTFQAWQLATKGKVAICQEVKESGQEGSTDNDDSSSEKELGETNKGSCAGLSQEKEKCKHSHGEAPSVDADPKLPSSKEKPTHCSECGKAFRTYHQLVLHSRVHKKDRRAGAESPTMSVDGRQPGTCSPDLAAPLDENGAVDRGEGGSEDGSEDGLPEGIHLDKNDDGGKIKHLTSSRECSYCGKFFRSNYYLNIHLRTHTGEKPYKCEFCEYAAAQKTSLRYHLERHHKEKQTDVAAEVKNDGKNQDTEDALLTADSAQTKNLKRFFDGAKDVTGSPPAKQLKEMPSVFQNVLGSAVLSPAHKDTQDFHKNAADDSADKVNKNPTPAYLDLLKKRSAVETQANNLICRTKADVTPPPDGSTTHNLEVSPKEKQTETAADCRYRPSVDCHEKPLNLSVGALHNCPAISLSKSLIPSITCPFCTFKTFYPEVLMMHQRLEHKYNPDVHKNCRNKSLLRSRRTGCPPALLGKDVPPLSSFCKPKPKSAFPAQSKSLPSAKGKQSPPGPGKAPLTSGIDSSTLAPSNLKSHRPQQNVGVQGAATRQQQSEMFPKTSVSPAPDKTKRPETKLKPLPVAPSQPTLGSSNINGSIDYPAKNDSPWAPPGRDYFCNRSASNTAAEFGEPLPKRLKSSVVALDVDQPGANYRRGYDLPKYHMVRGITSLLPQDCVYPSQALPPKPRFLSSSEVDSPNVLTVQKPYGGSGPLYTCVPAGSPASSSTLEGKRPVSYQHLSNSMAQKRNYENFIGNAHYRPNDKKT |
| 2866 | sp|Q96RE9|ZN300\_HUMAN | MMKSQGLVSFKDVAVDFTQEEWQQLDPSQRTLYRDVMLENYSHLVSMGYPVSKPDVISKLEQGEEPWIIKGDISNWIYPDEYQADGRQDRKSNLHNSQSCILGTVSFHHKILKGVTRDGSLCSILKVCQGDGQLQRFLENQDKLFRQVTFVNSKTVTEASGHKYNPLGKIFQECIETDISIQRFHKYDAFKKNLKPNIDLPSCYKSNSRKKPDQSFGGGKSSSQSEPNSNLEKIHNGVIPFDDNQCGNVFRNTQSLIQYQNVETKEKSCVCVTCGKAFAKKSQLIVHQRIHTGKKPYDCGACGKAFSEKFHLVVHQRTHTGEKPYDCSECGKAFSQKSSLIIHQRVHTGEKPYECSECGKAFSQKSPLIIHQRIHTGEKPYECRECGKAFSQKSQLIIHHRAHTGEKPYECTECGKAFCEKSHLIIHKRIHTGEKPYKCAQCEEAFSRKTELITHQLVHTGEKPYECTECGKTFSRKSQLIIHQRTHTGEKPYKCSECGKAFCQKSHLIGHQRIHTGEKPYICTECGKAFSQKSHLPGHQRIHTGEKPYICAECGKAFSQKSDLVLHQRIHTGERPYQCAICGKAFIQKSQLTVHQRIHTVVKS |
| 2867 | sp|P48830|ZP3\_BOVIN | MGPCSRLFVCFLLWGSTELCSPQPFWDDETERFRPSKPPAVMVECQEAQLVVTVDKDLFGTGKLIRPADLTLGPDNCEPLASADTDGVVRFAVGLHECGNILQVTDNALVYSTFLLHNPRPAGNLSILRTNRAEVPIECHYPRQGNVSSWAIQPTWVPFRTTVFSEEKLVFSLRLMEENWSAEKMTPTFQLGDRAHLQAQVHTGSHVPLRLFVDHCVASLTPDWSTSPYHTIVDFHGCLVDGLTDASSAFKAPRPRPEILQFTVDVFRFANDSRNMIYITCHLKVTPVDRVPDQLNKACSFSKSSNRWSPVEGPTDICRCCSKGRCGISGRSMRLSHREGRPVPRSRRHVTEEADVTVGPLIFLRKMNDRGVEGPTSSPPLVMLGLGLATVMTLTLAAIVLGLTGRLRAASHPVCPVSASQ |
| 2868 | sp|Q00193|ZP4\_RABIT | MAPGSTMWLLGYIFLCFPVSFALIKQPKPETPTDPGVLHCRPWNFKFTINFQNQETGSSPVLVTWDNQGRLHRLQNDTDCGTRVGEGPGPSVVLEANYSSCYVTESEPYYVMLVGVEEVDAAGQNLVTKQQLLKCPMHLPAPDAGLCDSVPVQDRLPCATAPISQEDCEELGCCHSSEEVNACYYGNTVTSHCTQEGHFSIAVSRNVSSPPLHLDSVHLVFGNDSECQPVVATRAFVLFLFPFTACGTTRQITGDRAIYENELLATREVRTWSRGSITRDSIFRLRVSCSYSISSSALPVDMHVLTLPPPLPETQPGPLTVVLQIAKDKDYHSYYTMDDYPVVKLLRDPIYVDVSILYRTDPYLGLRLHQCWATPRTNPLYQPQWPILVKGCPYTGDNYQTQLIPVQEAFDLPFPSHHQRFSISTFSFLDSSVAKEALKGPIYLHCSVSVCQPTGTQSCTVTCPIDSRRRNSDINFQNSTANISSKGPMILLQATEDPSEKLHKHSGVPVHPGALWVAGLSGIFIIGALLVSYVAIRTRR |
| 2869 | sp|Q9H6S0|YTDC2\_HUMAN | MSRPSSVSPRQPAPGGGGGGGPSPCGPGGGGRAKGLKDIRIDEEVKIAVNIALERFRYGDQREMEFPSSLTSTERAFIHRLSQSLGLVSKSKGKGANRYLTVKKKDGSETAHAMMTCNLTHNTKHAVRSLIQRFPVTNKERTELLPKTERGNVFAVEAENREMSKTSGRLNNGIPQIPVKRGESEFDSFRQSLPVFEKQEEIVKIIKENKVVLIVGETGSGKTTQIPQFLLDDCFKNGIPCRIFCTQPRRLAAIAVAERVAAERRERIGQTIGYQIRLESRVSPKTLLTFCTNGVLLRTLMAGDSTLSTVTHVIVDEVHERDRFSDFLLTKLRDLLQKHPTLKLILSSAALDVNLFIRYFGSCPVIYIQGRPFEVKEMFLEDILRTTGYTNKEMLKYKKEKQQEEKQQTTLTEWYSAQENSFKPESQRQRTVLNVTDEYDLLDDGGDAVFSQLTEKDVNCLEPWLIKEMDACLSDIWLHKDIDAFAQVFHLILTENVSVDYRHSETSATALMVAAGRGFASQVEQLISMGANVHSKASNGWMALDWAKHFGQTEIVDLLESYSATLEFGNLDESSLVQTNGSDLSAEDRELLKAYHHSFDDEKVDLDLIMHLLYNICHSCDAGAVLIFLPGYDEIVGLRDRILFDDKRFADSTHRYQVFMLHSNMQTSDQKKVLKNPPAGVRKIILSTNIAETSITVNDVVFVIDSGKVKEKSFDALNFVTMLKMVWISKASAIQRKGRAGRCRPGICFRLFSRLRFQNMLEFQTPELLRMPLQELCLHTKLLAPVNCPIADFLMKAPEPPPALIVRNAVQMLKTIDAMDTWEDLTELGYHLADLPVEPHLGKMVLCAVVLKCLDPILTIACTLAYRDPFVLPTQASQKRAAMLCRKRFTAGAFSDHMALLRAFQAWQKARSDGWERAFCEKNFLSQATMEIIIGMRTQLLGQLRASGFVRARGGGDIRDVNTNSENWAVVKAALVAGMYPNLVHVDRENLVLTGPKEKKVRFHPASVLSQPQYKKIPPANGQAAAIKALPTDWLIYDEMTRAHRIANIRCCSAVTPVTILVFCGPARLASNALQEPSSFRVDGIPNDSSDSEMEDKTTANLAALKLDEWLHFTLEPEAASLLLQLRQKWHSLFLRRMRAPSKPWSQVDEATIRAIIAVLSTEEQSAGLQQPSGIGQRPRPMSSEELPLASSWRSNNSRKSSADTEFSDECTTAERVLMKSPSPALHPPQKYKDRGILHPKRGTEDRSDQSSLKSTDSSSYPSPCASPSPPSSGKGSKSPSPRPNMPVRYFIMKSSNLRNLEISQQKGIWSTTPSNERKLNRAFWESSIVYLVFSVQGSGHFQGFSRMSSEIGREKSQDWGSAGLGGVFKVEWIRKESLPFQFAHHLLNPWNDNKKVQISRDGQELEPLVGEQLLQLWERLPLGEKNTTD |
| 2870 | sp|Q9Y5A6|ZSC21\_HUMAN | MMTKVLGMAPVLGPRPPQEQVGPLMVKVEEKEEKGKYLPSLEMFRQRFRQFGYHDTPGPREALSQLRVLCCEWLRPEIHTKEQILELLVLEQFLTILPQELQAWVQEHCPESAEEAVTLLEDLERELDEPGHQVSTPPNEQKPVWEKISSSGTAKESPSSMQPQPLETSHKYESWGPLYIQESGEEQEFAQDPRKVRDCRLSTQHEESADEQKGSEAEGLKGDIISVIIANKPEASLERQCVNLENEKGTKPPLQEAGSKKGRESVPTKPTPGERRYICAECGKAFSNSSNLTKHRRTHTGEKPYVCTKCGKAFSHSSNLTLHYRTHLVDRPYDCKCGKAFGQSSDLLKHQRMHTEEAPYQCKDCGKAFSGKGSLIRHYRIHTGEKPYQCNECGKSFSQHAGLSSHQRLHTGEKPYKCKECGKAFNHSSNFNKHHRIHTGEKPYWCHHCGKTFCSKSNLSKHQRVHTGEGEAP |
| 2871 | sp|Q9VU41|ZMY10\_DROME | MVNFVHPEEMYLFVESIRPFEVREVGSPKWLEVHEMILGLSQQAALELSQNREEEVKEFLISRDKLRVLIHEAYCVTLWKTRVLPHLLEIDPNPQATFLIYTVLYHEAALVALLDVCLYHPSGCETLQESVLDLIDYCAQAISQVIGLVSMGYHENETKLDVDEAVLTELERQKRDFIYKIGLRCISVLNYIADNVTLFHLSAARRLLVTHDIPWLMADVLSFRPWQRKTSKGIQKFIDEKWTNVDDVTKIVKPEAQAWFCVRQLLLNPQIMENYAFNEARCKQLHKLLGLMHEPLLDQLPPLIELKVFLSRLTLSGNTAKTQPLLLEDIPQIQEELLKDVEENGGFYQIAQDQDSVFLSKNKENICALATRLSKAYGTDLLCELEQNMDDLKMGEAKDAGAGGDGDTDHTCATCQAKAKKKCACCKKVHYCSRDCQLKDWPQHKLVCLKT |
| 2872 | sp|O95405|ZFYV9\_HUMAN | MENYFQAEAYNLDKVLDEFEQNEDETVSSTLLDTKWNKILDPPSHRLSFNPTLASVNESAVSNESQPQLKVFSLAHSAPLTTEEEDHCANGQDCNLNPEIATMWIDENAVAEDQLIKRNYSWDDQCSAVEVGEKKCGNLACLPDEKNVLVVAVMHNCDKRTLQNDLQDCNNYNSQSLMDAFSCSLDNENRQTDQFSFSINESTEKDMNSEKQMDPLNRPKTEGRSVNHLCPTSSDSLASVCSPSQLKDDGSIGRDPSMSAITSLTVDSVISSQGTDGCPAVKKQENYIPDEDLTGKISSPRTDLGSPNSFSHMSEGILMKKEPAEESTTEESLRSGLPLLLKPDMPNGSGRNNDCERCSDCLVPNEVRADENEGYEHEETLGTTEFLNMTEHFSESQDMTNWKLTKLNEMNDSQVNEEKEKFLQISQPEDTNGDSGGQCVGLADAGLDLKGTCISESEECDFSTVIDTPAANYLSNGCDSYGMQDPGVSFVPKTLPSKEDSVTEEKEIEESKSECYSNIYEQRGNEATEGSGLLLNSTGDLMKKNYLHNFCSQVPSVLGQSSPKVVASLPSISVPFGGARPKQPSNLKLQIPKPLSDHLQNDFPANSGNNTKNKNDILGKAKLGENSATNVCSPSLGNISNVDTNGEHLESYEAEISTRPCLALAPDSPDNDLRAGQFGISARKPFTTLGEVAPVWVPDSQAPNCMKCEARFTFTKRRHHCRACGKVFCASCCSLKCKLLYMDRKEARVCVICHSVLMNAQAWENMMSASSQSPNPNNPAEYCSTIPPLQQAQASGALSSPPPTVMVPVGVLKHPGAEVAQPREQRRVWFADGILPNGEVADAAKLTMNGTSSAGTLAVSHDPVKPVTTSPLPAETDICLFSGSITQVGSPVGSAMNLIPEDGLPPILISTGVKGDYAVEEKPSQISVMQQLEDGGPDPLVFVLNANLLSMVKIVNYVNRKCWCFTTKGMHAVGQSEIVILLQCLPDEKCLPKDIFNHFVQLYRDALAGNVVSNLGHSFFSQSFLGSKEHGGFLYVTSTYQSLQDLVLPTPPYLFGILIQKWETPWAKVFPIRLMLRLGAEYRLYPCPLFSVRFRKPLFGETGHTIMNLLADFRNYQYTLPVVQGLVVDMEVRKTSIKIPSNRYNEMMKAMNKSNEHVLAGGACFNEKADSHLVCVQNDDGNYQTQAISIHNQPRKVTGASFFVFSGALKSSSGYLAKSSIVEDGVMVQITAENMDSLRQALREMKDFTITCGKADAEEPQEHIHIQWVDDDKNVSKGVVSPIDGKSMETITNVKIFHGSEYKANGKVIRWTEVFFLENDDQHNCLSDPADHSRLTEHVAKAFCLALCPHLKLLKEDGMTKLGLRVTLDSDQVGYQAGSNGQPLPSQYMNDLDSALVPVIHGGACQLSEGPVVMELIFYILENIV |
| 2873 | sp|Q96BR9|ZBT8A\_HUMAN | MEISSHQSHLLQQLNEQRRQDVFCDCSILVEGKVFKAHRNVLFASSGYFKMLLSQNSKETSQPTTATFQAFSPDTFTVILDFVYSGKLSLTGQNVIEVMSAASFLQMTDVISVCKTFIKSSLDISEKEKDRYFSLSDKDANSNGVERSSFYSGGWQEGSSSPRSHLSPEQGTGIISGKSWNKYNYHPASQKNTQQPLAKHEPRKESIKKTKHLRLSQPSEVTHYKSSKREVRTSDSSSHVSQSEEQAQIDAEMDSTPVGYQYGQGSDVTSKSFPDDLPRMRFKCPYCTHVVKRKADLKRHLRCHTGERPYPCQACGKRFSRLDHLSSHFRTIHQACKLICRKCKRHVTDLTGQVVQEGTRRYRLCNECLAEFGIDSLPIDLEAEQHLMSPSDGDKDSRWHLSEDENRSYVEIVEDGSGDLVIQQVDDSEEEEEKEIKPNIR |
| 2874 | sp|Q810J8|ZFYV1\_MOUSE | MSAQTSLAEKGLNPGLMCQESYACSGTDEAIFECDECCSLQCLRCEEELHRQERLRNHERIRLKAGHVPYCDPCKGPNGHSPGVRQRAAVRCQTCKINLCLECQKRTHSGGNKRRHPITVYLVSKVQESLEGEEMDEETKRKKMTERVVSFLLVDENEEIQVTNEEDFIRKLDCKPDQHLKVVSIFGNTGDGKSHTLNHTFFYGREVFKTSPAQESCTVGVWAAYDPVHKVAVIDTEGLLGATVNLSQRTRLLLKVLAISDLVIYRTHADRLHNDLFKFLGDASEAYLKHFTKELKATTARCGLDVPLSTLGPAVIIFHETVHTQLLGSDHPSEAPEKLIQDRFRKLGRFPEAFSSIHYKGTRTYNPPTDFSGLRRALEQLLENNTTRSPRHPGVIFKALKALSDRFSGEIPDDQMAHSSFFPDEYFTCSSLCLSCGAGCKNSMNHGKEGVPHEAKSRCRYSHQYDNRVYTCKACYERGKEVSVVPKTSASTDSPWMGLAKYAWSGYVIECPNCGVVYRSRQYWFGNQDPVDTVVRTEIVHVWPGTDAFLKDNNNAAQRLLDGMNFMAQSVSELSLGPTKAVTSWLTDQIAPAYWRPNSQILSCNQCATSFKDNDTKHHCRACGEGFCDSCSSKTRPVPERGWGPAPVRVCDSCYDARNVQLDVTEAQADDEGGTLIARKVGEAVQNTLGAVVTAIDIPLGLVKDAARPAYWVPDHEILHCHNCRKEFSVKLSKHHCRACGQGFCDECSHDCRAVPSRGWDHPVRVCFNCNKKPGDL |
| 2875 | sp|Q8IZ20|ZN683\_HUMAN | MKEESAAQLGCCHRPMALGGTGGSLSPSLDFQLFRGDQVFSACRPLPDMVDAHGPSCASWLCPLPLAPGRSALLACLQDLDLNLCTPQPAPLGTDLQGLQEDALSMKHEPPGLQASSTDDKKFTVKYPQNKDKLGKQPERAGEGAPCPAFSSHNSSSPPPLQNRKSPSPLAFCPCPPVNSISKELPFLLHAFYPGYPLLLPPPHLFTYGALPSDQCPHLLMLPQDPSYPTMAMPSLLMMVNELGHPSARWETLLPYPGAFQASGQALPSQARNPGAGAAPTDSPGLERGGMASPAKRVPLSSQTGTAALPYPLKKKNGKILYECNICGKSFGQLSNLKVHLRVHSGERPFQCALCQKSFTQLAHLQKHHLVHTGERPHKCSIPWVPGRNHWKSFQAWREREVCHKRFSSSSNLKTHLRLHSGARPFQCSVCRSRFTQHIHLKLHHRLHAPQPCGLVHTQLPLASLACLAQWHQGALDLMAVASEKHMGYDIDEVKVSSTSQGKARAVSLSSAGTPLVMGQDQNN |
| 2876 | sp|Q9ESG8|ZDH16\_MOUSE | MRGQRSLLLGPARLCLRLLLLLGYRRRCPPLLRGLVQRWRYGKVCLRSLLYNSFGGSDTAVDAAFEPVYWLVDNVIRWFGVVFVVLVIVLTGSIVAIAYLCVLPLILRTYSVPRLCWHFFYSHWNLILIVFHYYQAITTPPGYPPQGRNDIATVSICKKCIYPKPARTHHCSICNRCVLKMDHHCPWLNNCVGHYNHRYFFSFCFFMTLGCVYCSYGSWDLFREAYAAIETYHQTPPPTFSFRERITHKSLVYLWFLCSSVALALGALTMWHAVLISRGETSIERHINKKERRRLQAKGRVFRNPYNYGCLDNWKVFLGVDTGRHWLTRVLLPSSHLPHGNGMSWDPPPWVTAHSASVMAV |
| 2877 | sp|Q9UBP6|TRMB\_HUMAN | MAAETRNVAGAEAPPPQKRYYRQRAHSNPMADHTLRYPVKPEEMDWSELYPEFFAPLTQNQSHDDPKDKKEKRAQAQVEFADIGCGYGGLLVELSPLFPDTLILGLEIRVKVSDYVQDRIRALRAAPAGGFQNIACLRSNAMKHLPNFFYKGQLTKMFFLFPDPHFKRTKHKWRIISPTLLAEYAYVLRVGGLVYTITDVLELHDWMCTHFEEHPLFERVPLEDLSEDPVVGHLGTSTEEGKKVLRNGGKNFPAIFRRIQDPVLQAVTSQTSLPGH |
| 2878 | sp|Q3ZCC3|TRAF6\_BOVIN | MSLLHCENSCGSSQSESDCCAAMAASSCGTAAKDDSVSGTASTVTLSSSFMEEIQGYDVEFDPPLESKYECPICLMALREAVQTPCGHRFCKACIIKSIRDAGHKCPVDNEILLENQLFPDNFAKREILSLMVKCPNEGCLHKMELRHLEEHQAHCEFALMSCPQCQRPFQKCHLNIHILKECPRRQVPCENCAVSMAFEDKEIHEQNCPLANVICEYCNTMLIREQMPNHYDLDCPTAPVPCTFSAFGCHEKMQRNHLARHLQENTQSHMRMMAQAVQTLSLAVAPVPQCTMPLYDSVPPTRPSSGRHSEVHNFQETIQQLEGRLVRQDHQIRELTAKMETQSMYVNELKRTIRTLEDKVAEIEAQQCNGIYIWKIGNFGMHLKSQEEEKPVVIHSPGFYTGKPGYKLCMRLHLQLPSAQRCANYISLFVHTMQGEYDSHLPWPFQGTIRLTILDQSEAAVRQNHEEIMDAKPELLAFQRPTIPRNPKGFGYVTFMHLEALRQRTFIKDDTLLVRCEVSTRFDMGSLRREGFQPRSTDSGI |
| 2879 | sp|Q6RI86|TRPA1\_RAT | MKRSLRRVLRPEERKEVQGVVYRGVGKDMDCSKESFKVDIEGDMCRLEAFIKNRRKLSKYEDENLCLLHHAAAEGQVELMQLIINGSSCEALNVMDDYGNTPLHWAAEKNQVESVKFLLSQGANPNLRNRNMMAPLHIAVQGMYNEVIKVLTEHKATNINLEGENGNTALMSTCAKDNSEALQILLEKGAKLCKSNKWGDYPVHQAAFSGAKRCMELILAYGEKTGYSREAHINFVNHKKASPLHLAVQSGDLDMIKMCLDSGAHIDMMENAKCMALHFAATQGATDIVKLMISSYTGSSDIVNAVDGNQETLLHRASLFDHHDLADYLISVGADINSTDSEGRSPLILATASASWNIVNLLLSKGAKVDIKDHLGRNFLHLTVQQPYGLRNLRPEFLQMQHIKELVMDEDNDGCTPLHYACRQGAPVSVNNLLRFNVSVHSKSKDKKSPLHFAASYGRINTCQRLLQDISDTRLLNEGDLHGMTPLHLAAKNGHDKVVQLLLKKGALFLSDHNGWTALHHASMGGYTQTMKVILDTNLKCTDRLDEEGNTALHFAAREGHAKAVAMLLSYNADILLNKKQASFLHIALHNKRKEVVLTTIRSKRWDECLQVFTHDSPSNRCPIMEMVEYLPECMKVLLDFCMIPSTEDKSCQDYHIEYNFKYLQCPLSMTKKVTPTQDVIYEPLTILNVMVQHNRIELLNHPVCREYLLMKWCAYGFRAHMMNLGSYCLGLIPMTLLVVKIQPGMAFNSTGIINETISTHEERINTLNSFPLKICMILVFLSSIFGYCKEVVQIFQQKRNYFLDYNNALEWVIYTTSMIFVLPLFLDIPAYMQWQCGAIAIFFYWMNFLLYLQRFENCGIFIVMLEVIFKTLLRSTGVFIFLLLAFGLSFYVLLNFQDAFSTPLLSLIQTFSMMLGDINYRDAFLEPLFRNELAYPVLTFGQLIAFTMFVPIVLMNLLIGLAVGDIAEVQKHASLKRIAMQVELHTNLEKKLPFWYLRKVDQRSTIVYPNRPRHGRMLRFFHYFLSMQETRQEAPNIDTCLEMEILKQKYRLKDLTSLLEKQHELIKLIIQKMEIISETEDEDNHCSFQDRFKKERLEQMHSKWNFVLNAVKTKTHCSISHPDI |
| 2880 | sp|Q07283|TRHY\_HUMAN | MSPLLRSICDITEIFNQYVSHDCDGAALTKKDLKNLLEREFGAVLRRPHDPKTVDLILELLDLDSNGRVDFNEFLLFIFKVAQACYYALGQATGLDEEKRARCDGKESLLQDRRQEEDQRRFEPRDRQLEEEPGQRRRQKRQEQERELAEGEEQSEKQERLEQRDRQRRDEELWRQRQEWQEREERRAEEEQLQSCKGHETEEFPDEEQLRRRELLELRRKGREEKQQQRRERQDRVFQEEEEKEWRKRETVLRKEEEKLQEEEPQRQRELQEEEEQLRKLERQELRRERQEEEQQQQRLRREQQLRRKQEEERREQQEERREQQERREQQEERREQQLRREQEERREQQLRREQEEERREQQLRREQEEERREQQLRREQQLRREQQLRREQQLRREQQLRREQQLRREQQLRREQQLRREQQLRREQEEERHEQKHEQERREQRLKREQEERRDWLKREEETERHEQERRKQQLKRDQEEERRERWLKLEEEERREQQERREQQLRREQEERREQRLKRQEEEERLQQRLRSEQQLRREQEERREQLLKREEEKRLEQERREQRLKREQEERRDQLLKREEERRQQRLKREQEERLEQRLKREEVERLEQEERREQRLKREEPEEERRQQLLKSEEQEERRQQQLRREQQERREQRLKREEEEERLEQRLKREHEEERREQELAEEEQEQARERIKSRIPKWQWQLESEADARQSKVYSRPRKQEGQRRRQEQEEKRRRRESELQWQEEERAHRQQQEEEQRRDFTWQWQAEEKSERGRQRLSARPPLREQRERQLRAEERQQREQRFLPEEEEKEQRRRQRREREKELQFLEEEEQLQRRERAQQLQEEEDGLQEDQERRRSQEQRRDQKWRWQLEEERKRRRHTLYAKPALQEQLRKEQQLLQEEEEELQREEREKRRRQEQERQYREEEQLQQEEEQLLREEREKRRRQERERQYRKDKKLQQKEEQLLGEEPEKRRRQEREKKYREEEELQQEEEQLLREEREKRRRQEWERQYRKKDELQQEEEQLLREEREKRRLQERERQYREEEELQQEEEQLLGEERETRRRQELERQYRKEEELQQEEEQLLREEPEKRRRQERERQCREEEELQQEEEQLLREEREKRRRQELERQYREEEEVQQEEEQLLREEPEKRRRQELERQYREEEELQQEEEQLLREEQEKRRQERERQYREEEELQRQKRKQRYRDEDQRSDLKWQWEPEKENAVRDNKVYCKGRENEQFRQLEDSQLRDRQSQQDLQHLLGEQQERDREQERRRWQQRDRHFPEEEQLEREEQKEAKRRDRKSQEEKQLLREEREEKRRRQETDRKFREEEQLLQEREEQPLRRQERDRKFREEELRHQEQGRKFLEEEQRLRRQERERKFLKEEQQLRCQEREQQLRQDRDRKFREEEQQLSRQERDRKFREEEQQVRRQERERKFLEEEQQLRQERHRKFREEEQLLQEREEQQLHRQERDRKFLEEEQQLRRQERDRKFREQELRSQEPERKFLEEEQQLHRQQRQRKFLQEEQQLRRQERGQQRRQDRDRKFREEEQLRQEREEQQLSRQERDRKFRLEEQKVRRQEQERKFMEDEQQLRRQEGQQQLRQERDRKFREDEQLLQEREEQQLHRQERDRKFLEEEPQLRRQEREQQLRHDRDRKFREEEQLLQEGEEQQLRRQERDRKFREEEQQLRRQERERKFLQEEQQLRRQELERKFREEEQLRQETEQEQLRRQERYRKILEEEQLRPEREEQQLRRQERDRKFREEEQLRQEREEQQLRSQESDRKFREEEQLRQEREEQQLRPQQRDGKYRWEEEQLQLEEQEQRLRQERDRQYRAEEQFATQEKSRREEQELWQEEEQKRRQERERKLREEHIRRQQKEEQRHRQVGEIKSQEGKGHGRLLEPGTHQFASVPVRSSPLYEYIQEQRSQYRP |
| 2881 | sp|P19134|TRFE\_RABIT | MRLAAGALLACAALGLCLAVTEKTVRWCAVNDHEASKCANFRDSMKKVLPEDGPRIICVKKASYLDCIKAIAAHEADAVTLDAGLVHEAGLTPNNLKPVVAEFYGSKENPKTFYYAVALVKKGSNFQLNELQGKKSCHTGLGRSAGWNIPIGLLYCDLPEPRKPLEKAVASFFSGSCVPCADGADFPQLCQLCPGCGCSSVQPYFGYSGAFKCLKDGLGDVAFVKQETIFENLPSKDERDQYELLCLDNTRKPVDEYEQCHLARVPSHAVVARSVDGKEDLIWELLNQAQEHFGKDKSGDFQLFSSPHGKNLLFKDSAYGFFKVPPRMDANLYLGYEYVTAVRNLREGICPDPLQDECKAVKWCALSHHERLKCDEWSVTSGGLIECESAETPEDCIAKIMNGEADAMSLDGGYVYIAGQCGLVPVLAENYESTDCKKAPEEGYLSVAVVKKSNPDINWNNLEGKKSCHTAVDRTAGWNIPMGLLYNRINHCRFDEFFRQGCAPGSQKNSSLCELCVGPSVCAPNNREGYYGYTGAFRCLVEKGDVAFVKSQTVLQNTGGRNSEPWAKDLKEEDFELLCLDGTRKPVSEAHNCHLAKAPNHAVVSRKDKAACVKQKLLDLQVEYGNTVADCSSKFCMFHSKTKDLLFRDDTKCLVDLRGKNTYEKYLGADYIKAVSNLRKCSTSRLLEACTFHKH |
| 2882 | sp|Q96KB5|TOPK\_HUMAN | MEGISNFKTPSKLSEKKKSVLCSTPTINIPASPFMQKLGFGTGVNVYLMKRSPRGLSHSPWAVKKINPICNDHYRSVYQKRLMDEAKILKSLHHPNIVGYRAFTEANDGSLCLAMEYGGEKSLNDLIEERYKASQDPFPAAIILKVALNMARGLKYLHQEKKLLHGDIKSSNVVIKGDFETIKICDVGVSLPLDENMTVTDPEACYIGTEPWKPKEAVEENGVITDKADIFAFGLTLWEMMTLSIPHINLSNDDDDEDKTFDESDFDDEAYYAALGTRPPINMEELDESYQKVIELFSVCTNEDPKDRPSAAHIVEALETDV |
| 2883 | sp|Q2LZZ7|TRC\_DROPS | MMSSRTDTDGSSIRFSDHTLDKATKAKVTLENYYSNLVTQYGERKQRLAKLEAQLKDESLTESQRQEKRLQHAQKETEYLRLKRLRLGVEDFEALKVIGRGAFGEVRLVQKKDTGHVYAMKVLRKADMLEKEQVAHVRAERDVLVEADHQWVVKMYYSFQDQVNLYLIMEFLPGGDMMTLLMKKDTLSEEGTQFYISETALAIDSIHKLGFIHRDIKPDNLLLDARGHLKLSDFGLCTGLKKSHRTDFYRDLSQAKPSDFIGTCASPMDSKRRAESWKRNRRALAYSTVGTPDYIAPEVFLQTGYGPACDWWSLGVIMYEMLMGYPPFCSDNPQDTYRKVMNWRETLIFPPEIPISEEAKETIIKFCCEADRRLGSQRGLEDLKSVPFFRGVDWEHIRERPAAIPVEVRSIDDTSNFDEFPDVSLEIPSAPIPQGGEIAKDWVFINYTYKRFEVRNLE |
| 2884 | sp|Q13061|TRDN\_HUMAN | MTEITAEGNASTTTTVIDSKNGSVPKSPGKVLKRTVTEDIVTTFSSPAAWLLVIALIITWSAVAIVMFDLVDYKNFSASSIAKIGSDPLKLVRDAMEETTDWIYGFFSLLSDIISSEDEEDDDGDEDTDKGEIDEPPLRKKEIHKDKTEKQEKPERKIQTKVTHKEKEKGKEKVREKEKPEKKATHKEKIEKKEKPETKTLAKEQKKAKTAEKSEEKTKKEVKGGKQEKVKQTAAKVKEVQKTPSKPKEKEDKEKAAVSKHEQKDQYAFCRYMIDIFVHGDLKPGQSPAIPPPLPTEQASRPTPASPALEEKEGEKKKAEKKVTSETKKKEKEDIKKKSEKETAIDVEKKEPGKASETKQGTVKIAAQAAAKKDEKKEDSKKTKKPAEVEQPKGKKQEKKEKHVEPAKSPKKEHSVPSDKQVKAKTERAKEEIGAVSIKKAVPGKKEEKTTKTVEQEIRKEKSGKTSSILKDKEPIKGKEEKVPASLKEKEPETKKDEKMSKAGKEVKPKPPQLQGKKEEKPEPQIKKEAKPAISEKVQIHKQDIVKPEKTVSHGKPEEKVLKQVKAVTIEKTAKPKPTKKAEHREREPPSIKTDKPKPTPKGTSEVTESGKKKTEISEKESKEKADMKHLREEKVSTRKESLQLHNVTKAEKPARVSKDVEDVPASKKAKEGTEDVSPTKQKSPISFFQCVYLDGYNGYGFQFPFTPADRPGESSGQANSPGQKQQGQ |
| 2885 | sp|Q9BYV2|TRI54\_HUMAN | MNFTVGFKPLLGDAHSMDNLEKQLICPICLEMFSKPVVILPCQHNLCRKCANDVFQASNPLWQSRGSTTVSSGGRFRCPSCRHEVVLDRHGVYGLQRNLLVENIIDIYKQESSRPLHSKAEQHLMCEEHEEEKINIYCLSCEVPTCSLCKVFGAHKDCEVAPLPTIYKRQKSELSDGIAMLVAGNDRVQAVITQMEEVCQTIEDNSRRQKQLLNQRFESLCAVLEERKGELLQALAREQEEKLQRVRGLIRQYGDHLEASSKLVESAIQSMEEPQMALYLQQAKELINKVGAMSKVELAGRPEPGYESMEQFTVRVEHVAEMLRTIDFQPGASGEEEEVAPDGEEGSAGPEEERPDGP |
| 2886 | sp|P9WJ61|TUBAT\_MYCTU | MNLVSEKEFLDLPLVSVAEIVRCRGPKVSVFPFDGTRRWFHLECNPQYDDYQQAALRQSIRILKMLFEHGIETVISPIFSDDLLDRGDRYIVQALEGMALLANDEEILSFYKEHEVHVLFYGDYKKRLPSTAQGAAVVKSFDDLTISTSSNTEHRLCFGVFGNDAAESVAQFSISWNETHGKPPTRREIIEGYYGEYVDKADMFIGFGRFSTFDFPLLSSGKTSLYFTVAPSYYMTETTLRRILYDHIYLRHFRPKPDYSAMSADQLNVLRNRYRAQPDRVFGVGCVHDGIWFAEG |
| 2887 | sp|Q03019|TWINE\_DROME | MASKRLMLDVEEEDDESGACGQENFDPHDADMEYQAKRRKSAVQETPLQWMLKRHIPASTTVLSPITELSQNMNGARLDGTPKSTQRIPANRTLNNFNSLSSRTLGSFSSSCSSYESGNSLDDEYMDMFEMESAENHNLELPDDLEVLLSGQLKSESNLEEMSNKKGSLRRCLSMYPSEQPEEAVQEPDQETNMPMKKMQRKTLSMNDAEIMRALGDEPELIGDLSKPCTLPCLATGIRHRDLKTISSDTLARLIQGEFDEQLGSQGGYEIIDCRYPYEFLGGHIRGAKNLYTRGQIQEAFPTLTSNQENRRIYVFHCEFSSERGPKLLRYLRSNDRSQHTHNYPALDYPELYILHNGYKEFFGLYSQLCQPSQYVPMLAPAHNDEFRYFRAKTKSWQCGEGGDSGIGGGGSRGLRKSRSRLLYAE |
| 2888 | sp|Q1XH17|TRI72\_MOUSE | MSAAPGLLRQELSCPLCLQLFDAPVTAECGHSFCRACLIRVAGEPAADGTVACPCCQAPTRPQALSTNLQLSRLVEGLAQVPQGHCEEHLDPLSIYCEQDRTLVCGVCASLGSHRGHRLLPAAEAQARLKTQLPQQKMQLQEACMRKEKTVAVLEHQLVEVEETVRQFRGAVGEQLGKMRMFLAALESSLDREAERVRGDAGVALRRELSSLNSYLEQLRQMEKVLEEVADKPQTEFLMKFCLVTSRLQKILSESPPPARLDIQLPVISDDFKFQVWKKMFRALMPALEELTFDPSSAHPSLVVSSSGRRVECSDQKAPPAGEDTRQFDKAVAVVAQQLLSQGEHYWEVEVGDKPRWALGVMAADASRRGRLHAVPSQGLWLLGLRDGKILEAHVEAKEPRALRTPERPPARIGLYLSFADGVLAFYDASNPDVLTPIFSFHERLPGPVYPIFDVCWHDKGKNAQPLLLVGPEQEQA |
| 2889 | sp|Q9BQ50|TREX2\_HUMAN | MSEAPRAETFVFLDLEATGLPSVEPEIAELSLFAVHRSSLENPEHDESGALVLPRVLDKLTLCMCPERPFTAKASEITGLSSEGLARCRKAGFDGAVVRTLQAFLSRQAGPICLVAHNGFDYDFPLLCAELRRLGARLPRDTVCLDTLPALRGLDRAHSHGTRARGRQGYSLGSLFHRYFRAEPSAAHSAEGDVHTLLLIFLHRAAELLAWADEQARGWAHIEPMYLPPDDPSLEA |
| 2890 | sp|Q9FLT0|TSN2\_ARATH | MATGAATENQWLKGRVKAVTSGDCLVITALTHNRAGPPPEKTITLSSLMAPKMARRGGIDEPFAWESREFLRKLCIGKEVAFKVDYKVEAIAGREFGSVYLGNENLAKLVVQNGWAKVRRPGQQNQDKVSPYIAELEQLEEQAQQEGFGRWSKVPGAAEASIRNLPPSAVGDSGNFDAMGLLAASKGKPMEGIVEQVRDGSTIRVYLLPEFQFVQVFVAGLQAPSMGRRQSTQEAVVDPDVTATSNGDASAETRGPLTTAQRLAASAASSVEVSSDPFAMEAKYFTELRVLNRDVRIVLEGVDKFNNLIGSVYYSDGDTVKDLGLELVENGLAKYVEWSANMLDEEAKKKLKATELQCKKNRVKMWANYVPPASNSKAIHDQNFTGKVVEVVSGDCLVVADDSIPFGSPMAERRVCLSSIRSPKMGNPRREEKPAPYAREAKEFLRQKLIGMEVIVQMEYSRKISPGDGVTTSGAGDRVMDFGSVFLPSPTKGDTAVAAAATPGANIAELIISRGLGTVVRHRDFEERSNHYDALLAAEARAIAGKKNIHSAKDSPALHIADLTVASAKKAKDFLPSLQRINQISAVVEYVLSGHRFKLYIPKESCSIAFAFSGVRCPGRGEPYSEEAIALMRRKIMQRDVEIVVENVDRTGTFLGSMWEKNSKTNAGTYLLEAGLAKMQTGFGADRIPEAHILEMAERSAKNQKLKIWENYVEGEEVVNGSSKVETRQKETLKVVVTEVLGGGRFYVQTVGDQKVASIQNQLAALSLKDAPIIGSFNPKKGDIVLAQFSLDNSWNRAMIVNGPRGAVQSPEEEFEVFYIDYGNQEIVPYSAIRPVDPSVSSAPGLAQLCRLAYIKVPGKEEDFGRDAGEYLHTVTLESGKEFRAVVEERDTSGGKVKGQGTGTELVVTLIAVDDEISVNAAMLQEGIARMEKRRRWEPKDKQAALDALEKFQDEARKSRTGIWEYGDIQSDDEDNVPVRKPGRG |
| 2891 | sp|Q86UF1|TSN33\_HUMAN | MARRPRAPAASGEEFSFVSPLVKYLLFFFNMLFWVISMVMVAVGVYARLMKHAEAALACLAVDPAILLIVVGVLMFLLTFCGCIGSLRENICLLQTFSLCLTAVFLLQLAAGILGFVFSDKARGKVSEIINNAIVHYRDDLDLQNLIDFGQKKFSCCGGISYKDWSQNMYFNCSEDNPSRERCSVPYSCCLPTPDQAVINTMCGQGMQAFDYLEASKVIYTNGCIDKLVNWIHSNLFLLGGVALGLAIPQLVGILLSQILVNQIKDQIKLQLYNQQHRADPWY |
| 2892 | sp|G5E8I7|U17LC\_MOUSE | MVVSLSFPEADPALSSPGAQQLHQDEAQVVVELTANDKPSLSWECPQGPGCGLQNTGNSCYLNAALQCLTHTPPLADYMLSQEYSQTCCSPEGCKMCAMEAHVTQSLLHSHSGDVMKPSQILTSAFHKHQQEDAHEFLMFTLETMHESCLQVHRQSEPTSEDSSPIHDIFGGLWRSQIKCLHCQGTSDTYDRFLDVPLDISSAQSVNQALWDTEKSEELRGENAYYCGRCRQKMPASKTLHIHSAPKVLLLVLKRFSAFMGNKLDRKVSYPEFLDLKPYLSQPTGGPLPYALYAVLVHEGATCHSGHYFSYVKARHGAWYKMDDTKVTSCDVTSVLNENAYVLFYVQQTDLKQVSIDMPEGRVHEVLDPEYQLKKSRRKKHKKKSPCTEDAGEPCKNREKRATKETSLGEGKVLQEKNHKKAGQKHENTKLVPQEQNHQKLGQKHRINEILPQEQNHQKAGQSLRNTEGELDLPADAIVIHLLRSTENWGRDAPDKENQPWHNADRLLTSQDPVNTGQLCRQEGRRRSKKGKNKNKQGQRLLLVC |
| 2893 | sp|P0CG47|UBB\_HUMAN | MQIFVKTLTGKTITLEVEPSDTIENVKAKIQDKEGIPPDQQRLIFAGKQLEDGRTLSDYNIQKESTLHLVLRLRGGMQIFVKTLTGKTITLEVEPSDTIENVKAKIQDKEGIPPDQQRLIFAGKQLEDGRTLSDYNIQKESTLHLVLRLRGGMQIFVKTLTGKTITLEVEPSDTIENVKAKIQDKEGIPPDQQRLIFAGKQLEDGRTLSDYNIQKESTLHLVLRLRGGC |
| 2894 | sp|Q9SYB9|UNC\_ARATH | METRPSSSSSLSPATNLNLDRLKVLKLLGKGATGTVFLVHDSVSDSSVSSPFALKLVDKSSASSLRRARWEIQILRRLSDDTNPNPFLPKLLASSESSEFIAWALPYCSGGDLNVLRQRQNDGVFSSSVIKFYLAEIVCALDHLHTMGIAYRDLKPENILLQESGHVTLTDFDLSCSLNKPTRPEFYHLSDPEPDPNPESNLSHNKKSLRIFRQKKKKTKSARVNPITRRRLSFSGGERSNSFVGTDEYISPEVIRGDGHDFAVDWWALGVLTYEMMYGETPFKGRNKKETFRNVLVKEPEFAGKPSDLTDLIRRLLVKDPTKRFGFWRGAAEIKEHAFFKGVRWELLTEVLRPPFIPLRDDGDLTGKVTEESGFGIKEYFEKLKTPPLPLPHECSENNPFVDF |
| 2895 | sp|O42930|VPS10\_SCHPO | MFFLTKILPLRGRIFPMFGCLLLIVSLITGCIASPAAEVAETVFDSKPVDFMTFKDSTNTLFLNAEFGDVYLSQDNGQSWRNGVISGQVCPIKKLIKHSFENSRVFALTECDTVYYSYDNGENWDYFTIDHPISITQLPFHFHAKNPDYVIFNNQYCSSSGTWVGKICKPDLYYTKDGFQSDPEPMPVGSSYCIFADSSEKMVVSSEEQIICISLNPNSAARPPFSHHIVYSDDWFQSIVPVQLHNFLGSDGAYGILSTGSFLVAALIDAATRKLFVYVSQDGYYWEEALKFHKGFEFDAFTILPSTEYSFFIDSLDSHPNNPTGILYSLDSESNTFVIRQMNTNRYVDGYTDFMLIDYLDGLQFVNVVENVDEIEVDPQVDKVLSSRITFDGGKTWSTVASPESSCNSMKQCSLHLFLDPHVSHASIASSKFAPGILLASGSVGDRLLSENQMDLFVSEDGGRNWTLSRDGMHLFAMSGFGSIFFASEYLDVINEVYYSLDHGQSWVTVTLDKTIVPIKLFASEDPYAEIFYLLAMTDDGEQSNYSLFSFNFGKFLPKECQFSNSESNKNDFEKWYTRYANGSPICSEMGKKEFFWRKKATSVCSVPKSITDLHGSFDACECTDEDYECNTQFISNDQGECKLLDFIGSLLCASEDLDTFQKIPYRLVPGNKCTPNKRDSHREPQTFNCDSFNEPGTEITSFLYDFDEKIVDVVYLEGTVPEENTFLIGISVNSHVYFSEDEGKTWDKFSKEEFSSVLPHAYNKNSVYMVTSKNIVYFTTNRGKNFYKFKAPSPPNQNGKSLFSFHPSRPAWLLYAGSENCEKNPFADDCRDVVFVSLDFGDTWSRLPSNLEYCSWAKAEKLVVDDTLIFCIRQNTNDPFKKELISSIDFFEYEQDEILNDVVGFMIEDEYVIVAVQDEEGTSLSLDVSINGLNFASCSFPAYLNVHPKQAYTILDSQTHSLFIHVTTNTHLGSEWGDILKSNSNGTYFMTSLANVNRDSVGYVDFERLEGIQGIALANIVSNTKELTDGGTKKLQTLITFNDGLDWSYLNLVGGEKIVPKCGKNCYLHLHGYTERNQFSDPTSTNAAVGLIIGVGSFSPFLIPYEESQTFISRDAGVTWYRIFDSPHLWAFLDSGSIIIAVESISPTNVIKYSADEGRTWQEYQFSEKSKVVVDVSTKPSGVGHQVLLLTTDDENAPISSVLIDFDALYRRTCVFDEENSEESDFVRWVPTDISGKPLCLRGRISSFYRKSIHKKCRVGSSLLVKEEVLSKCECTRADFECDYNYRRLKDGTCVLVSGLQPPDTREEQCSVDDAFEWRQPTGYKRTPLTECEGGVPLDAGTLHPCPGKEDDYYKAHPKPGGWSIFLTIIFSILLAAVAGCILYYYSRRFLKGAIRLGSDSATENPLESGISYTRGAFSSIPIFFSALYQSVRSLFIRSTPTNGEFENAAFLQNYEIDDDDEESV |
| 2896 | sp|Q06696|VPS36\_YEAST | MEYWHYVETTSSGQPLLREGEKDIFIDQSVGLYHGKSKILQRQRGRIFLTSQRIIYIDDAKPTQNSLGLELDDLAYVNYSSGFLTRSPRLILFFKDPSSKDELGKSAETASADVVSTWVCPICMVSNETQGEFTKDTLPTPICINCGVPADYELTKSSINCSNAIDPNANPQNQFGVNSENICPACTFANHPQIGNCEICGHRLPNASKVRSKLNRLNFHDSRVHIELEKNSLARNKSSHSALSSSSSTGSSTEFVQLSFRKSDGVLFSQATERALENILTEKNKHIFNQNVVSVNGVDMRKGASSHEYNNEVPFIETKLSRIGISSLEKSRENQLLNNDILFNNALTDLNKLMSLATSIERLYKNSNITMKTKTLNLQDESTVNEPKTRRPLLILDREKFLNKELFLDEIAREIYEFTLSEFKDLNSDTNYMIITLVDLYAMYNKSMRIGTGLISPMEMREACERFEHLGLNELKLVKVNKRILCVTSEKFDVVKEKLVDLIGDNPGSDLLRLTQILSSNNSKSNWTLGILMEVLQNCVDEGDLLIDKQLSGIYYYKNSYWPSHI |
| 2897 | sp|P06492|VP16\_HHV11 | MDLLVDELFADMNADGASPPPPRPAGGPKNTPAAPPLYATGRLSQAQLMPSPPMPVPPAALFNRLLDDLGFSAGPALCTMLDTWNEDLFSALPTNADLYRECKFLSTLPSDVVEWGDAYVPERTQIDIRAHGDVAFPTLPATRDGLGLYYEALSRFFHAELRAREESYRTVLANFCSALYRYLRASVRQLHRQAHMRGRDRDLGEMLRATIADRYYRETARLARVLFLHLYLFLTREILWAAYAEQMMRPDLFDCLCCDLESWRQLAGLFQPFMFVNGALTVRGVPIEARRLRELNHIREHLNLPLVRSAATEEPGAPLTTPPTLHGNQARASGYFMVLIRAKLDSYSSFTTSPSEAVMREHAYSRARTKNNYGSTIEGLLDLPDDDAPEEAGLAAPRLSFLPAGHTRRLSTAPPTDVSLGDELHLDGEDVAMAHADALDDFDLDMLGDGDSPGPGFTPHDSAPYGALDMADFEFEQMFTDALGIDEYGG |
| 2898 | sp|Q04272|VPS20\_YEAST | MGQKSSKVHITKTDRAILEVKRSKDEIHKFTRRTDNLILVEKSQLKDLIRKNPENYKSNMKVRFLLKRIHYQEHLLQQASDQLINLENMVSTLEFKMVEKQFINGLKNGNEILKKLNKEFSNVDELMDDVQDQIAYQNEINETLSRSLVGTSNYEDDLDKELDALESELNPEKMNNAKVANMPSTEGLPSLPQGEQTEQKEREEFATEERSDTKEPLALLS |
| 2899 | sp|Q24314|VPS18\_DROME | MDTSMPNQPKFLPRIEHNSSGATANSYVATASGNPFETDEEDEIFSRHKMVLRVPSNCTGDLMHLAVSRNWLVCLLGTPERTTLLRFFLPRAIPPGEAVLEKYLSGSGYKITRMFLDPTGHHIIIALVPKSATAGVSPDFLYIHCLESPQAQQLKVRRIEKFKDHEITAVAFNPYHGNESSTGPILLGTSRGLIFETELNPAADGHVQRKQLYDLGLGRPKYPITGLKLLRVPNSSRYIIVVTSPECIYTFQETLKAEERSLQAIFAGYVSGVQEPHCEERKTDLTFSQLRFFAPPNSKYPKQWAWLCGEGIRVGELSIEANSAATLIGNTLINLDFEKTMHLSYGERRLNTPKAFVLTEYHAVLLYADHVRAICLLNQEQVYQEAFDEARVGKPLSIERDELTGSIYVYTVKTVFNLRVTREERNVWRIYLDKGQYELATAHAAEDPEHLQLVLCQRADAAFADGSYQVAADYYAETDKSFEEVCLKFMVLPDKRPIINYVKKRLSRVTTKPMETDELDEDKMNIIKALVIWLIDLYLIQINMPDKDEEWRSSWQTEYDEFMMEAHVLSCTRQNRETVRQLIAEHADPRNMAQFAIAIGDYDEVVAQQLKAECYAEALQTLINQRNPELFYKYAPELITRLPKPTVDALMAQGSRLEVEKLVPTLIIMENREQREQTQRYLEFAIYKLNTTNDAIHNFLLHLYAEHEPKLLMKYLEIQGRDESLVHYDIYYAHKVCTDLDVKEARVFLECMLRKWISAVDLALTFDMKLAKETASRPSDSKIRRKLWLRIAYHDIKGTNDVKKALNLLKECDLLRIEDLLPFFADFEKIDNFKEAICDALRDYNQRIQELQREMAETTEQTDRVTAELQQLRQHSLTVESQDTCEICEMMLLVKPFFIFICGHKFHSDCLEKHVVPLLTKEQCRRLGTLKQQLEAEVQTQAQPQSGALSKQQAMELQRKRAALKTEIEDILAADCLFCGLLISTIDQPFVDDWEQVNVEWE |
| 2900 | sp|Q5VIR6|VPS53\_HUMAN | MMEEEELEFVEELEAVLQLTPEVQLAIEQVFPSQDPLDRADFNAVEYINTLFPTEQSLANIDEVVNKIRLKIRRLDDNIRTVVRGQTNVGQDGRQALEEAQKAIQQLFGKIKDIKDKAEKSEQMVKEITRDIKQLDHAKRHLTTSITTLNHLHMLAGGVDSLEAMTRRRQYGEVANLLQGVMNVLEHFHKYMGIPQIRQLSERVKAAQTELGQQILADFEEAFPSQGTKRPGGPSNVLRDACLVANILDPRIKQEIIKKFIKQHLSEYLVLFQENQDVAWLDKIDRRYAWIKRQLVDYEEKYGRMFPREWCMAERIAVEFCHVTRAELAKIMRTRAKEIEVKLLLFAIQRTTNFEGFLAKRFSGCTLTDGTLKKLESPPPSTNPFLEDEPTPEMEELATEKGDLDQPKKPKAPDNPFHGIVSKCFEPHLYVYIESQDKNLGELIDRFVADFKAQGPPKPNTDEGGAVLPSCADLFVYYKKCMVQCSQLSTGEPMIALTTIFQKYLREYAWKILSGNLPKTTTSSGGLTISSLLKEKEGSEVAKFTLEELCLICNILSTAEYCLATTQQLEEKLKEKVDVSLIERINLTGEMDTFSTVISSSIQLLVQDLDAACDPALTAMSKMQWQNVEHVGDQSPYVTSVILHIKQNVPIIRDNLASTRKYFTQFCVKFANSFIPKFITHLFKCKPISMVGAEQLLLDTHSLKMVLLDLPSISSQVVRKAPASYTKIVVKGMTRAEMILKVVMAPHEPLVVFVDNYIKLLTDCNTETFQKILDMKGLKRSEQSSMLELLRQRLPAPPSGAESSGSLSLTAPTPEQESSRIRKLEKLIKKRL |
| 2901 | sp|Q15906|VPS72\_HUMAN | MSLAGGRAPRKTAGNRLSGLLEAEEEDEFYQTTYGGFTEESGDDEYQGDQSDTEDEVDSDFDIDEGDEPSSDGEAEEPRRKRRVVTKAYKEPLKSLRPRKVNTPAGSSQKAREEKALLPLELQDDGSDSRKSMRQSTAEHTRQTFLRVQERQGQSRRRKGPHCERPLTQEELLREAKITEELNLRSLETYERLEADKKKQVHKKRKCPGPIITYHSVTVPLVGEPGPKEENVDIEGLDPAPSVSALTPHAGTGPVNPPARCSRTFITFSDDATFEEWFPQGRPPKVPVREVCPVTHRPALYRDPVTDIPYATARAFKIIREAYKKYITAHGLPPTASALGPGPPPPEPLPGSGPRALRQKIVIK |
| 2902 | sp|Q0WQ75|VPS51\_ARATH | MATEAAPMDEKAKRMRDLLSSFYAPDPSISTSGSSINASFDNINSTSFDADQYMDLMIKKSNLEVLLQRHVQMAAEIKNLDTDLQMLVYENYNKFISATDTIKRMKSNIFGMEGNMDQLLQKIMSVQSKSDGVNTSLFEKREHIEKLHRTRNLLRKVQFIYDLPARLQKCIKSEAYGDAVRFYTGAMPILKVYGDTSFQDCRRASEEAIEIIIKNLQTKLFSDSESIQARAEAAVLLKQLDVPVDSLKAKLLEKLEQSLDGLQIKPEEASTLVEDDDSSNDTESNDQHPAKIHEDAVRGFSEAIRAYREIFPDSEERLFKLARALTAMHFEYMELYIKKRVSAADFLGIFRIVWEDVVLMDEVLPEAALSDLSAEAAQVTLKQFVARMFSHLQQDISDTLLKFDINQKEAVEGELLKVVLEASQKAVLQGTTNIFQDFRQLLDEKTGIFIKMKDLISGWIQKGSQDFFRSLEAQFLVLSGKTSSSNDIEGKSSDKIHAGLILVLAQLSVFIEQKVIPRVTEEIAASFSGGNSQAFENGPAFIPGELCRVFHAASEKLLQHYIDTRTQKVSVLLRKRFKTPNWVKHKEPREVHMYVDMFLHELEEVGKEVKQVLPQGTFRKHKRTDSNGSNTTTSSRSNTLHNDKMARSNSQRARSQLFETHLAKLFKQKVEIFTKVEFTQESVVTTTVKLCLKSLQEYVRLQTFNRSGFQQIQLDIQFLKAPLKEAVEDEAAIDFLLDEVIVAASERCLDVIPLEPPILDKLIQAKLAKSKEHNNNTVSS |
| 2903 | sp|P32842|VATL2\_YEAST | MSTQLASNIYAPLYAPFFGFAGCAAAMVLSCLGAAIGTAKSGIGIAGIGTFKPELIMKSLIPVVMSGILAIYGLVVAVLIAGNLSPTEDYTLFNGFMHLSCGLCVGFACLSSGYAIGMVGDVGVRKYMHQPRLFVGIVLILIFSEVLGLYGMIVALILNTRGSE |
| 2904 | sp|Q96JG6|VPS50\_HUMAN | MQKIKSLMTRQGLKSPQESLSDLGAIESLRVPGKEEFRELREQPSDPQAEQELINSIEQVYFSVDSFDIVKYELEKLPPVLNLQELEAYRDKLKQQQAAVSKKVADLILEKQPAYVKELERVTSLQTGLQLAAVICTNGRRHLNIAKEGFTQASLGLLANQRKRQLLIGLLKSLRTIKTLQRTDVRLSEMLEEEDYPGAIQLCLECQKAASTFKHYSCISELNSKLQDTLEQIEEQLDVALSKICKNFDINHYTKVQQAYRLLGKTQTAMDQLHMHFTQAIHNTVFQVVLGYVELCAGNTDTKFQKLQYKDLCTHVTPDSYIPCLADLCKALWEVMLSYYRTMEWHEKHDNEDTASASEGSNMIGTEETNFDRGYIKKKLEHGLTRIWQDVQLKVKTYLLGTDLSIFKYDDFIFVLDIISRLMQVGEEFCGSKSEVLQESIRKQSVNYFKNYHRTRLDELRMFLENETWELCPVKSNFSILQLHEFKFMEQSRSPSVSPSKQPVSTSSKTVTLFEQYCSGGNPFEIQANHKDEETEDVLASNGYESDEQEKSAYQEYDSDSDVPEELKRDYVDEQTGDGPVKSVSRETLKSRKKSDYSLNKVNAPILTNTTLNVIRLVGKYMQMMNILKPIAFDVIHFMSQLFDYYLYAIYTFFGRNDSLESTGLGLSSSRLRTTLNRIQESLIDLEVSADPTATLTAAEERKEKVPSPHLSHLVVLTSGDTLYGLAERVVATESLVFLAEQFEFLQPHLDAVMPAVKKPFLQQFYSQTVSTASELRKPIYWIVAGKALDYEQMLLLMANVKWDVKEIMSQHNIYVDALLKEFEQFNRRLNEVSKRVRIPLPVSNILWEHCIRLANRTIVEGYANVKKCSNEGRALMQLDFQQFLMKLEKLTDIRPIPDKEFVETYIKAYYLTENDMERWIKEHREYSTKQLTNLVNVCLGSHINKKARQKLLAAIDDIDRPKR |
| 2905 | sp|Q54E04|VATM\_DICDI | MSFLRPSIWRSSPMQMVQLFVQIEAAHDTVDELGKLGLIQFLDDNEHVNLFQRNFVNEVKRCDDMEKKLKFFEDQVKKEPKLQKLLPDNMLSVVDDDSQMDELEGRFDELESELKQVNANQETLQRNYNELIQLRHVLTKDSVFFQENPNLIEGEGHEHSARSPLLAEDQHVSEVAKQGVKLGFITGVMNTDKMPQFQRSLWRTTRGNNYVKDARIEEEIIDPQTGEETAKTVFIVFFQGERLQQKIKKICESFGANIYDCPDNSFERSNLLQKVTVRITDLYEVLQRSKDHKRQTLAGIVPRLYSWKKKVLLEKSIYHTMNLFDYDVGRKCLIAKGWTPKDKIEEIQLALRTATTRSGALVPSVLSIIKTEGSPPTHFETNKYTSSFQEIVNAYGIAHYREVNPAVLTIVTFPFLFGVMFGDVGHGALLLLSALGLISLEKKLAGKKLNELIQMPFDGRYVLFLMSLFSIYVGFIYNECFSIPMNIFGSQYNLNSTTGLYTYQHTDRVYPVGVDPLWKGAPNELVYYNSFKMKLSIIFGVVQMSVGICFSLLNYLNQKGPIKIVNILTQFVPQMIFLWSIFGYMSVLIILKWVVPYRSFEVDKVDPPFILPTIIAMFLSPGGTPDVVFFSGQGAVQTALLFLALISIPVMLVIKPLFMKRFHFQEVERKKLGHHEEEHDDEALYTGHHGEEFEMGEVFVHQVIHTIEFVLGAVSNTASYLRLWALSLAHSELSSVFWERILIGQVERGNPFLAFVGFGAWLGASVAVLLLMESLSAFLHALRLHWVEFQNKFYIGDGVRFIPYSATRILSEDDE |
| 2906 | sp|Q91ZQ0|VMP1\_RAT | MAENGTNCDQRRGAMSKEQHNGSFTDPSSVNEKKRRDREERQNIVLWRQPLITLQYFSLETLVVLKEWTSKLWHRQSMVVSFFLLLAALVATYYVEGAHQQYVQRIEKQFLLYAYWIGLGILSSVGLGTGLHTFLLYLGPHIASVTLAAYECNSVNFPEPPYPDQIICPDEEGTEGAISLWSIISKVRIEACMWGIGTAIGELPPYFMARAARLSGAEPDDEEYQEFEEMLEHAETAQDFASRAKLAVQKLVQKVGFFGILACASIPNPLFDLAGITCGHFLVPFWTFFGATLIGKAIIKMHIQKIFVIVTFSKHIVEQMVAFIGAVPGIGPSLQKPFQEYLEAQRQKLHHRSEAGTAQGENWLSWTFEKLVVAMVCYFILSIINSMAQSYAKRIQQRLNSEEKTK |
| 2907 | sp|Q60992|VAV2\_MOUSE | MEQWRQCGRWLIDCKVLPPNHRVVWPSAVVFDLAQALRDGVLLCQLLHNLSPGSIDLKDINFRPQMSQFLCLKNIRTFLKVCHDKFGLRNSELFDPFDLFDVRDFGKVISAVSRLSLHSIAQSKGIRPFPSEETAENDDDVYRSLEELADEHDLGEDIYDCVPCEDEGDDIYEDIIKVEVQQPMKMGMTEDDKRSCCLLEIQETEAKYYRTLEDIEKNYMGPLRLVLSPADMAAVFINLEDLIKVHHSFLRAIDVSMMAGGSTLAKVFLEFKERLLIYGEYCSHMEHAQSTLNQLLASREDFRQKVEECTLRVQDGKFKLQDLLVVPMQRVLKYHLLLKELLSHSADRPERQQLKEALEAMQDLAMYINEVKRDKETLKKISEFQCSIENLQVKLEEFGRPKIDGELKVRSIVNHTKQDRYLFLFDKVVIVCKRKGYSYELKEVIELLFHKMTDDPMHNKDIKKWSYGFYLIHLQGKQGFQFFCKTEDMKRKWMEQFEMAMSNIKPDKANANHHSFQMYTFDKTTNCKACKMFLRGTFYQGYLCTRCGVGAHKECLEVIPPCKMSSPADVDAPGAGPGPKMVAVQNYHGNPAPPGKPVLTFQTGDVIELLRGDPDSPWWEGRLVQTRKSGYFPSSSVKPCPVDGRPPTGRPPSREIDYTAYPWFAGNMERQQTDNLLKSHASGTYLIRERPAEAERFAISIKFNDEVKHIKVVEKDSWIHITEAKKFESLLELVEYYQCHSLKESFKQLDTTLKFPYKSRERTTSRASSRSPASCASYNFSFLSPQGLSFAPQAPSAPFWSVFTPRVIGTAVARYNFAARDMRELSLREGDVVKIYSRIGGDQGWWKGETNGRIGWFPSTYVEEEGVQ |
| 2908 | sp|Q64727|VINC\_MOUSE | MPVFHTRTIESILEPVAQQISHLVIMHEEGEVDGKAIPDLTAPVAAVQAAVSNLVRVGKETVQTTEDQILKRDMPPAFIKVENACTKLVQAAQMLQSDPYSVPARDYLIDGSRGILSGTSDLLLTFDEAEVRKIIRVCKGILEYLTVAEVVETMEDLVTYTKNLGPGMTKMAKMIDERQQELTHQEHRVMLVNSMNTVKELLPVLISAMKIFVTTKNSKNQGIEEALKNRNFTVEKMSAEINEIIRVLQLTSWDEDAWASKDTEAMKRALASIDSKLNQAKGWLRDPNASPGDAGEQAIRQILDEAGKVGELCAGKERREILGTCKMLGQMTDQVADLRARGQGASPVAMQKAQQVSQGLDVLTAKVENAARKLEAMTNSKQSIAKKIDAAQNWLADPNGGPEGEEQIRGALAEARKIAELCDDPKERDDILRSLGEIAALTSKLGDLRRQGKGDSPEARALAKQVATALQNLQTKTNRAVANSRPAKAAVHLEGKIEQAQRWIDNPTVDDRGVGQAAIRGLVAEGHRLANVMMGPYRQDLLAKCDRVDQLTAQLADLAARGEGESPQARALASQLQDSLKDLKAQMQEAMTQEVSDVFSDTTTPIKLLAVAATAPPDAPNREEVFDERAANFENHSGRLGATAEKAAAVGTANKSTVEGIQASVKTARELTPQVISAARILLRNPGNQAAYEHFETMKNQWIDNVEKMTGLVDEAIDTKSLLDASEEAIKKDLDKCKVAMANIQPQMLVAGATSIARRANRILLVAKREVENSEDPKFREAVKAASDELSKTISPMVMDAKAVAGNISDPGLQKSFLDSGYRILGAVAKVREAFQPQEPDFPPPPPDLEQLRLTDELAPPKPPLPEGEVPPPRPPPPEEKDEEFPEQKAGEVINQPMMMAARQLHDEARKWSSKGNDIIAAAKRMALLMAEMSRLVRGGSGTKRALIQCAKDIAKASDEVTRLAKEVAKQCTDKRIRTNLLQVCERIPTISTQLKILSTVKATMLGRTNISDEESEQATEMLVHNAQNLMQSVKETVREAEAASIKIRTDAGFTLRWVRKTPWYQ |
| 2909 | sp|Q9Z0K8|VNN1\_MOUSE | MGMSWWLACAAAFSALCVLKASSLDTFLAAVYEHAVILPKDTLLPVSHSEALALMNQNLDLLEGAIVSAAKQGAHIIVTPEDGIYGVRFTRDTIYPYLEEIPDPQVNWIPCDNPKRFGSTPVQERLSCLAKNNSIYVVANMGDKKPCNTSDSHCPPDGRFQYNTDVVFDSQGKLVARYHKQNIFMGEDQFNVPMEPEFVTFDTPFGKFGVFTCFDILFHDPAVTLVTEFQVDTILFPTAWMDVLPHLAAIEFHSAWAMGMGVNFLAANLHNPSRRMTGSGIYAPDSPRVFHYDRKTQEGKLLFAQLKSHPIHSPVNWTSYASSVESTPTKTQEFQSIVFFDEFTFVELKGIKGNYTVCQNDLCCHLSYQMSEKRADEVYAFGAFDGLHTVEGQYYLQICILLKCKTTNLRTCGSSVDTAFTRFEMFSLSGTFGTRYVFPEVLLSEVKLAPGEFQVSSDGRLVSLKPTSGPVLTIGLFGRLYGKDWASNASSDFIAHSLIIMLIVTPIIHYLC |
| 2910 | sp|Q9VR59|VIP1\_DROME | MSYTELESGYQDISQQHQQQNPHQSQPQQRVGFYLGLQDGNGDTDFGDSNDGMDSDTSTSSSNSKQVVVGICAMAKKTQSKPMKEILTRLGEFEFIKLVTFEENVILREPVQNWPTCDCLVSFHSKGFPLEKAIEYAQLRNPFVLNNLHMQYDIQDRRRVYAILEKEGIEIPRYAVLDRDSPDPKHHELIESEDHVEVNGITFNKPFVEKPVSAEDHNIYIYYPTSAGGGSQRLFRKIGSRSSVYSPESRVRKTGSFIYEDFMPTDGTDVKVYTVGPDYAHAEARKSPALDGKVERDSEGKEIRYPVILNHSEKLISRKVCLAFKQTVCGFDLLRANGKSYVCDVNGFSFVKNSNKYYDDCAKILGNMILRELTPTLHIPWSVPFQLDDPPIVPTTFGKMMELRCVVAVIRHGDRTPKQKMKVEVRHPKFFEIFEKYDGYKLGHVKLKRPKQLQEILDIARFLLSEIHTKAHAEIEEKESKLEQLKNVLEMYGHFSGINRKVQMKYQPKGRPRGSSSDDTNLAADQPVEPSLVLILKWGGELTPAGRIQAEELGRIFRCMYPGGQGRSDYSGTQGLGLLRLHSTFRHDLKIYASDEGRVQMTAAAFAKGLLALEGELTPILVQMVKSANTNGLLDNDCDSSKYQNLAKGRLHELMQNDREFSKEDRELINPCNSKSITQALDFVKNPVDCCHHVHLLIRELLHIISIKKDDPKTKDAILYHGETWDLMRCRWEKIEKDFSTKSKLFDISKIPDIYDCIKYDLQHNQHTLQYDQAEELYIYAKNLADIVIPQEYGLTPQEKLAIGQGICSPLLRKIKGDLQRNIDEVEDEFMNRLNPHYSHGVASPQRHVRTRLYFTSESHVHSLLTVLRYGGLLNVVTDEQWRRAMDYISMVSELNYMSQIVIMLYEDPTKDPTSEERFHVELHFSPGVNCCVQKNLPPGPGFRPHSHGDNACNVSLQSSDESNPARIEEENDSNSGEEREGKKRGTSGQRSTDRSAERISPAFGFNRLELRSKQFKSKPIPIGAHHTVSGHEAMDLAKRLNEELASHQQQQNQQLRPISPDIRAVTPDCEPRSRSFEQRPTSGVCAKEPDSQVSVSVSASVSSANASTSSRRQRHSIAGQMSYMKMLGFGGFSKKMATSANSLFSTAVISGSSSAPNLRDMITVSSSGFGDVPPIRPLETLHNALSLRKLDSFLQDMILAQIFKTPTGSPPRGFSKNTLPAVSSMTLTASNQTEVVEHEPISTTVTPTFDRRGSESGSTADAHLRLLSESQCPNLDDSNTELRESLAGKMELWPQDIVKAAEDEELNLSELETKPSLDLTMEIMERGVAGIASIQPMNRDSDETMGGGVFLSVCEEQGSGSTCLTPVSFGMDLDLSMVANKGSITLSMEGFDDDEDATLSAATTPSLLADCEPRLESCYCCPSHAEAPPEVPSDDPRFGFALPVRVTQASPEHARPVRRAHDPVSPRIQKQISLFEGNAAMATGQEKTESSGSVGGGAILHASINLPAAGPHHLRQDARLRKFENLTQSTSNSNFPFESNTLKRVPMQTTKDYDNVSHTQSCINLKSGSSGVLGGSPQRQRGSDGGGVGASGVPAESREPTRVHYGRMNSTCCSASASPSPSPGALIVKERFIEPPKRGVVRGYHGKTQSMDADFLFNEFLLLPAMAPAKISFDSSDIDQASDDDSPSSSKQRHA |
| 2911 | sp|P30431|VM3JA\_BOTJA | ATRPKGAVQPKYEDAMQYEFKVNGEPVVLHLEKNKGLFSKDYSEIHYSPDGREITTYPPVEDHCYYHGRIENDADSTASISACNGLKGYFKLQRETYFIEPLKLPDSEAHAVFKYENVEKEDEAPKMCGVTQNWKSYEPIKKASQLAFTAEQQRYDPYKYIEFFVVVDQGTVTKNNGDLDKIKARMYELANIVNEIFRYLYMHVALVGLEIWSNGDKITVKPDVDYTLNSFAEWRKTDLLTRKKHDNAQLLTAIDFNGPTIGYAYIGSMCHPKRSVGIVQDYSPINLVVAVIMAHEMGHNLGIHHDTGSCSCGDYPCIMGPTISNEPSKFFSNCSYIQCWDFIMNHNPECIINEPLGTDIISPPVCGNELLEVGEECDCGTPENCQNECCDAATCKLKSGSQCGHGDCCEQCKFSKSGTECRASMSECDPAEHCTGQSSECPADVFHKNGQPCLDNYGYCYNGNCPIMYHQCYALFGADVYEAEDSCFKDNQKGNYYGYCRKENGKKIPCAPEDVKCGRLYCKDNSPGQNNPCKMFYSNDDEHKGMVLPGTKCADGKVCSNGHCVDVATAY |
| 2912 | sp|P0C7B0|VM3H6\_GLOBR | MIQVLLVTICLAAFPYQGSSIILESGNVNDYEVVYPRKVTALPKGAVQPKYEDAMQYEFKVNGEPVVLHLGKNKQLFSKDYSETHYSPDGREITTNPPVEDHCYYHGRIENDADSTRSISACNGLKGHFKLQGETYLIEPLKLSDSEAHAVYKYENILKEDEAPKMCGVTQNWESYEPIKKASQLNLTPEQQRYNPFRFVELVLVADKGMVTKNNGDLNKIKTRMYELANNLNDIYRYMYIHVALVGVEIWSDGDKITVTPNVDDTLSSFAEWRKTHLLTRKKHDNAQLLTAIDFNGPTIGYAYIASMCHPKRSVGIVQDYSPINLVLSVVMAHEMGHNLGIHHDHSYCSCGDYACIMGATISHEPSTFFSNCSYIQCWDFIMDHNPECIVNEPLGTDIVSPPVCGNELLEVGEECDCGTPENCQNECCDAATCKLKSGSQCGHGDCCEQCKFSKSGTECRESMSECDPAEHCTGQSSECPADVFHKNGQPCLHNYGYCYNGNCPIMYHQCYALWGADVYEAEDSCFESNKKGNYYGYCRKENGKKIPCAPEDVKCGRLYCKDNSPGQNNPCKMFYSNEDEHKGMVLPGTKCGDGKVCSNGHCVDVATAY |
| 2913 | sp|Q9Z2L0|VDAC1\_RAT | MAVPPTYADLGKSARDVFTKGYGFGLIKLDLKTKSENGLEFTSSGSANTETTKVNGSLETKYRWTEYGLTFTEKWNTDNTLGTEITVEDQLARGLKLTFDSSFSPNTGKKNAKIKTGYKREHINLGCDVDFDIAGPSIRGALVLGYEGWLAGYQMNFETSKSRVTQSNFAVGYKTDEFQLHTNVNDGTEFGGSIYQKVNKKLETAVNLAWTAGNSNTRFGIAAKYQVDPDACFSAKVNNSSLIGLGYTQTLKPGIKLTLSALLDGKNVNAGGHKLGLGLEFQA |
| 2914 | sp|Q64267|XPA\_MOUSE | MATAEEKQTSPEPVAADEPAQLPAAVRASVERKRQRALMLRQARLAARPYPAAAATGGVASVKAAPKMIDTKGGFILEEEEEKHEIGNIVHEPGPVMEFDYTICEECGKEFMDSYLMNHFDLPTCDSCRDADDKHKLITKTEAKQEYLLKDCDLEKREPALRFLVKKNPRHSQWGDMKLYLKLQVVKRALEVWGSQEALEDAKEVRQENREKMKQKKFDKKVKELRRAIRSSVWKRETTTHQHKYGPEENLEDDMYRKTCTLCGHELTYEKM |
| 2915 | sp|Q65Z40|WAPL\_MOUSE | MTSRFGKTYSRKGGNGSSKFDEVFSNKRTTLSTKWGETTFMAKLGQKRPNFKPDIQEIPKKPKVEEEDTGDPFGFDSDDESLPVSSKNLAQGKGSSYSESSEAAQLEEVTSVFEANSKCSHVVGEDSFASDRCLLVEDTLIGKEKSISRIPEDNANKSSCTKLLTSDKVENFSEEHEKNSHHFHKNAEDSTKKPNAETAVASEYKADETKETNDTWNSQSGKRTESPSESCPVKGSVRTGLYEWDNDFEDIRSEDCILSLDNESLLEMKDEDLKNRIGGLENLNETFEEDIIQSVLRPSNCRTYCRANKARSSQGASNFDKLMDGTSQSLAKANSESSKDGLNQAKKGSASCGTSFRGTVGRTRDYTVLHPSCLSVCNVTIQDTMERSMDEFTASTPADLGEAGRLRKKADIATSKTTTRFRPSNTKSKKDVKLEFFGFEDHDETGGDEGGSGSSNYKIKYFGFDDLSESEDDDDDDCQVERKKDKKRTKTAPSPSQQPPPESSDNSQDSQSSTNNAENLDFTEDLPGVPESVKKPISKQGDKSKENTRKIFSGPKRSPTKAVYNARHWNHPDSEELPGPPIAKPQRVTVRLSSKEPNQKDDGVFKAPAPPLKVIKTVTIPTQPYQEIVTALKCRKEDKELYTVVQHVKHFNDVVEFGENQEFTDDIEYLLSGLKSTQPLNTRCLSVISLATKCAMPSFRMHLRAHGMVAMVFKTLDDSQHHQNLSLCTAALMYILSRDRLNMDLDRASLDLMIRLLELEQDASSAKLLNEKDMNKIKEKIRRLCETVHNKHLDLENITTGHLAMETLLSLTSKRAGDWFKEELRLLGGLDHIVDKVKECVDHLSRDDEDEEKLVASLWGAERCLRVLESVTVHNPENQSYLIAYKDSQLIISSAKALQHCEDLIQQYNRAENSICVADSNPLPYQNVTNHVGKAVEDCMRAIIGVLLNLTNDNEWGSTKTGEQEGLIGTAMNCVLQVPKYLPQEQRFDIRVLGLGLLINLVEYSARNRHCLVNMQTSCSFDSSFSSGEGDHSLRLAGQVHAVQALVQLFLERERAAQLAESKTDELIKDAPTTQHDKSGEWQETSGEIQWVSTEKTDGAEEKQKKEEEDEELDLNKALQHAGKHMEDCIVASYTALLLGCLCQESPINVTTVREYLPEGDFSIMTEMLKKFLSFMNLTCAVGTTGQKSISRVIEYLEHC |
| 2916 | sp|Q9NQW7|XPP1\_HUMAN | MPPKVTSELLRQLRQAMRNSEYVTEPIQAYIIPSGDAHQSEYIAPCDCRRAFVSGFDGSAGTAIITEEHAAMWTDGRYFLQAAKQMDSNWTLMKMGLKDTPTQEDWLVSVLPEGSRVGVDPLIIPTDYWKKMAKVLRSAGHHLIPVKENLVDKIWTDRPERPCKPLLTLGLDYTGISWKDKVADLRLKMAERNVMWFVVTALDEIAWLFNLRGSDVEHNPVFFSYAIIGLETIMLFIDGDRIDAPSVKEHLLLDLGLEAEYRIQVHPYKSILSELKALCADLSPREKVWVSDKASYAVSETIPKDHRCCMPYTPICIAKAVKNSAESEGMRRAHIKDAVALCELFNWLEKEVPKGGVTEISAADKAEEFRRQQADFVDLSFPTISSTGPNGAIIHYAPVPETNRTLSLDEVYLIDSGAQYKDGTTDVTRTMHFGTPTAYEKECFTYVLKGHIAVSAAVFPTGTKGHLLDSFARSALWDSGLDYLHGTGHGVGSFLNVHEGPCGISYKTFSDEPLEAGMIVTDEPGYYEDGAFGIRIENVVLVVPVKTKYNFNNRGSLTFEPLTLVPIQTKMIDVDSLTDKECDWLNNYHLTCRDVIGKELQKQGRQEALEWLIRETQPISKQH |
| 2917 | sp|Q9EPL0|XYLT2\_MOUSE | MVASARVQKLVRRYKLAIATALAILLLQGLVVWSFSGLEEDEPGEKGRQRKPRPLDPGEGSKDTDSSAGRRGSAGRRHGRWRGRAESPGVPVAKVVRAVTSRQRASRRVPPAPPPEAPGRQNLSGAAAGEALIGAPGFPQHGDTGSVEGAPQPTDNTFTPKCEIVGKDALSALARASTKQCQQEIANVVCLHQAGNLMPKSVPRHCQLAGKMSPGVQWEEIRAQQPVGGPPVRIAYMLVVHGRAIRQLKRLLKAVYHEQHFFYIHVDKRSNYLYREVVELAQHYENVRVTPWRMVTIWGGASLLRMYLRSMKDLLEIPGWTWDFFINLSATDYPTRTNEELVAFLSKNRDKNFLKSHGRDNSRFIKKQGLDRLFHECDSHMWRLGERQIPAGIVVDGGSDWFVLTRSFVEYVVYTDDPLVAQLRQFYTYTLLPAESFFHTVLENSPACASLVDNNLRVTNWNRKLGCKCQYKHIVDWCGCSPNDFKPQDFLRLQQVSRPTFFARKFESTVNQEVLEILDFHLYGSYPPSTPALKAYWENIYDVADGPGGLSDVLLTAYTAFARLSLRHAATAVSPLATAVCRFEPRGLPSSVHLYFYDDHFQGYLVTQAVQPSAQGPAETLEMWLMPQRSLKLLGHSDQASRLQSLEVGTEWDPKERLFRNFGGLLGPLDEPVAMQRWARGPNLTATVVWIDPTYVVATSYDITVDADTEVTQYKPPLSLPLRPGAWTVRLLQFWEPLGETRFLVLPLTFNRKLPLRKDDASWLHAGPPHNEYMEQSFQGLSGILNLPQAEALEEAARRHTELTGSALEAWTDGELSNFWSVAGLCAIGPSACPSLELCRLTSWSSLSPDPKSELGPVKADGRLR |
| 2918 | sp|P23475|XRCC6\_MOUSE | MSEWESYYKTEGEEEEEEEESPDTGGEYKYSGRDSLIFLVDASRAMFESQGEDELTPFDMSIQCIQSVYTSKIISSDRDLLAVVFYGTEKDKNSVNFKNIYVLQDLDNPGAKRVLELDQFKGQQGKKHFRDTVGHGSDYSLSEVLWVCANLFSDVQLKMSHKRIMLFTNEDDPHGRDSAKASRARTKASDLRDTGIFLDLMHLKKPGGFDVSVFYRDIITTAEDEDLGVHFEESSKLEDLLRKVRAKETKKRVLSRLKFKLGEDVVLMVGIYNLVQKANKPFPVRLYRETNEPVKTKTRTFNVNTGSLLLPSDTKRSLTYGTRQIVLEKEETEELKRFDEPGLILMGFKPTVMLKKQHYLRPSLFVYPEESLVSGSSTLFSALLTKCVEKKVIAVCRYTPRKNVSPYFVALVPQEEELDDQNIQVTPGGFQLVFLPYADDKRKVPFTEKVTANQEQIDKMKAIVQKLRFTYRSDSFENPVLQQHFRNLEALALDMMESEQVVDLTLPKVEAIKKRLGSLADEFKELVYPPGYNPEGKVAKRKQDDEGSTSKKPKVELSEEELKAHFRKGTLGKLTVPTLKDICKAHGLKSGPKKQELLDALIRHLEKN |
| 2919 | sp|Q60989|XIAP\_MOUSE | MTFNSFEGTRTFVLADTNKDEEFVEEFNRLKTFANFPSSSPVSASTLARAGFLYTGEGDTVQCFSCHAAIDRWQYGDSAVGRHRRISPNCRFINGFYFENGAAQSTNPGIQNGQYKSENCVGNRNPFAPDRPPETHADYLLRTGQVVDISDTIYPRNPAMCSEEARLKSFQNWPDYAHLTPRELASAGLYYTGADDQVQCFCCGGKLKNWEPCDRAWSEHRRHFPNCFFVLGRNVNVRSESGVSSDRNFPNSTNSPRNPAMAEYEARIVTFGTWTSSVNKEQLARAGFYALGEGDKVKCFHCGGGLTDWKPSEDPWEQHAKWYPGCKYLLDEKGQEYINNIHLTHSLEESLGRTAEKTPSLTKKIDDTIFQNPMVQEAIRMGFSFKDIKKTMEEKIQTSGSSYLSLEVLIADLVSAQKDNTEDESSQTSLQKDISTEEQLRRLQEEKLCKICMDRNIAIVFVPCGHLVTCKQCAEAVDKCPMCYTVITFKQKIFMS |
| 2920 | sp|Q96S15|WDR24\_HUMAN | MEKMSRVTTALGGSVLTGRTMHCHLDAPANAISVCRDAAQVVVAGRSIFKIYAIEEEQFVEKLNLRVGRKPSLNLSCADVVWHQMDENLLATAATNGVVVTWNLGRPSRNKQDQLFTEHKRTVNKVCFHPTEAHVLLSGSQDGFMKCFDLRRKDSVSTFSGQSESVRDVQFSIRDYFTFASTFENGNVQLWDIRRPDRCERMFTAHNGPVFCCDWHPEDRGWLATGGRDKMVKVWDMTTHRAKEMHCVQTIASVARVKWRPECRHHLATCSMMVDHNIYVWDVRRPFVPAAMFEEHRDVTTGIAWRHPHDPSFLLSGSKDSSLCQHLFRDASQPVERANPEGLCYGLFGDLAFAAKESLVAAESGRKPYTGDRRHPIFFKRKLDPAEPFAGLASSALSVFETEPGGGGMRWFVDTAERYALAGRPLAELCDHNAKVARELGRNQVAQTWTMLRIIYCSPGLVPTANLNHSVGKGGSCGLPLMNSFNLKDMAPGLGSETRLDRSKGDARSDTVLLDSSATLITNEDNEETEGSDVPADYLLGDVEGEEDELYLLDPEHAHPEDPECVLPQEAFPLRHEIVDTPPGPEHLQDKADSPHVSGSEADVASLAPVDSSFSLLSVSHALYDSRLPPDFFGVLVRDMLHFYAEQGDVQMAVSVLIVLGERVRKDIDEQTQEHWYTSYIDLLQRFRLWNVSNEVVKLSTSRAVSCLNQASTTLHVNCSHCKRPMSSRGWVCDRCHRCASMCAVCHHVVKGLFVWCQGCSHGGHLQHIMKWLEGSSHCPAGCGHLCEYS |
| 2921 | sp|Q8R5M2|WNT9A\_MOUSE | MLDGSLLARWLAAAFGLTLLLAALRPSAAYFGLTGSEPLTILPLTLETEAAAQAHYKACDRLKLERKQRRMCRRDPGVAETLVEAVSMSALECQYQFRFERWNCTLEGRYRASLLKRGFKETAFLYAISSAGLTHALAKACSAGRMERCTCDEAPDLENREAWQWGGCGDNLKYSSKFVKEFLGRRSSKDLRARVDFHNNLVGVKVIKAGVETTCKCHGVSGSCTVRTCWRQLAPFHEVGKHLKHKYETSLKVGSTTNEATGEAGAISPPRGRASGSGGGDPLPRTPELVHLDDSPSFCLAGRFSPGTAGRRCHREKNCESICCGRGHNTQSRVVTRPCQCQVRWCCYVECRQCTQREEVYTCKG |
| 2922 | sp|P47075|VTC4\_YEAST | MKFGEHLSKSLIRQYSYYYISYDDLKTELEDNLSKNNGQWTQELETDFLESLEIELDKVYTFCKVKHSEVFRRVKEVQEQVQHTVRLLDSNNPPTQLDFEILEEELSDIIADVHDLAKFSRLNYTGFQKIIKKHDKKTGFILKPVFQVRLDSKPFFKENYDELVVKISQLYDIARTSGRPIKGDSSAGGKQQNFVRQTTKYWVHPDNITELKLIILKHLPVLVFNTNKEFEREDSAITSIYFDNENLDLYYGRLRKDEGAEAHRLRWYGGMSTDTIFVERKTHREDWTGEKSVKARFALKERHVNDFLKGKYTVDQVFAKMRKEGKKPMNEIENLEALASEIQYVMLKKKLRPVVRSFYNRTAFQLPGDARVRISLDTELTMVREDNFDGVDRTHKNWRRTDIGVDWPFKQLDDKDICRFPYAVLEVKLQTQLGQEPPEWVRELVGSHLVEPVPKFSKFIHGVATLLNDKVDSIPFWLPQMDVDIRKPPLPTNIEITRPGRSDNEDNDFDEDDEDDAALVAAMTNAPGNSLDIEESVGYGATSAPTSNTNHVVESANAAYYQRKIRNAENPISKKYYEIVAFFDHYFNGDQISKIPKGTTFDTQIRAPPGKTICVPVRVEPKVYFATERTYLSWLSISILLGGVSTTLLTYGSPTAMIGSIGFFITSLAVLIRTVMVYAKRVVNIRLKRAVDYEDKIGPGMVSVFLILSILFSFFCNLVAK |
| 2923 | sp|P43585|VTC2\_YEAST | MLFGVKLANEVYPPWKGSYINYEGLKKFLKEDSVKDGSNDKKARWDDSDESKFVEELDKELEKVYGFQLKKYNNLMERLSHLEKQTDTEAAIKALDADAFQRVLEELLSESTELDNFKRLNFTGFAKIVKKHDKLYPKYPSVKSLLEVRLKELPSHSEEYSPLLYRISFLYNILRSNFNTASEPLASASKFSSIVSNDIDMNFRSFKFWVHNDNLMEVKTRILRHLPVLVYANVPSENDDLVNRFESDISNNDEIVGSSSSTSSVEHGLGARSFDPLINTLYFDNEHFELYNDKLLKLNSAPTLRLRWTGQLSDKPDIFLEKKTLIEDEATGKSEFDLTKLQLKQKFINGFIFEGDKKFKEQTLKKLKESGTAGRDLERLEEDFSEIQNFIIKNELQPVFRTVYTRTAFQIPGDDKIRVTIDSNIVFIKEDSFDRERPIRDPNTWHRTDIDANVANPLKFLRGGEYAKFPYSVMEIKVKSSLDSSMSASSMISNVKLPKKHGQWLNDLTNSHLVKEIPKFSIFVQGVASLYGDDEKLDILPFWLPDLETDIRQDPKQAYEEEKKKLLKQKEIQKKIDGMRRLSNLKEPQHQAAVPVSQEENERITSQGDLEADGSSDEETEQEPHSKRSKKVRRRKPKATFLRILAGRDPKLMGVDSEEEEIELPPGVKKPLNLLKNAGPVNVEAKVWLANERTFNRWLSVTSLLSVLTFSIYNSVKKAEYPTLANYMAYVYFGLTIFCALWSYSIYMKRVDIIQQRSGQHLDAPLGPVLVSIVLFVTLVVNFVMAFRNAAKSRQELQIQNLEVPERIPEVLRPLQNYLFKLMGPSSD |
| 2924 | sp|Q8R3E3|WIPI1\_MOUSE | MEAEAADAPPGRVEAALSCFSFNQDCTSLAIGTKAGYKLFSLSSVEQLDQVHGSNEIPDVYIVERLFSSSLVVVVSHTKPRQMNVYHFKKGTEICNYSYSSNILSIRLNRQRLLVCLEESIYIHNIKDMKLLKTVLDIPSNPTGLCALSINHSNSYLAYPGSQSTGEIVLYDGNSLKTVCTIAAHEGTLAAITFNSSGSKLASASEKGTVIRVFSVPEGQKLYEFRRGMKRYVTISSLVFSMDSQFLCASSNTETVHIFKMEHLTDSRPEEPSTWSGYMGKMFMAATNYLPAQVSDMMNQDRAFATGRLNFSGQKNICTLSTIQKLPRLLVASSDGHLYIYNLDPQDGGECVLIKTHSLLSSGTTEENKENDLRPSLPPSYAATVARPSTSAASTVPGYSEDGGALRGEVIPEHEFATGPVCLDDENEFPPIILCRGSQKGKTKQS |
| 2925 | sp|Q14508|WFDC2\_HUMAN | MPACRLGPLAAALLLSLLLFGFTLVSGTGAEKTGVCPELQADQNCTQECVSDSECADNLKCCSAGCATFCSLPNDKEGSCPQVNINFPQLGLCRDQCQVDSQCPGQMKCCRNGCGKVSCVTPNF |
| 2926 | sp|P34888|WNT1\_CAEEL | MLKSTQVILIFILLISIVESLSWLALGLAANRFDRDKPGTSCKSLKGLTRRQMRFCKKNIDLMESVRSGSLAAHAECQFQFHKRRWNCTLIDPVTHEVIPDVFLYENTRESAFVHAISSAAVAYKVTRDCARGISERCGCDYSKNDHSGKSQFQYQGCSDNVKFGIGVSKEFVDSAQRRVLMMKDDNGTSLLGPSQLSADGMHMINLHNNQAGRQVLEKSLRRECKCHGMSGSCEMRTCWDSLPNFRHIGMAIKDKFDGAAEVKVVKEDGIEKPRIVMKNSQFKRHTNADLVYMTPSPDFCESDPLRGILGTKGRQCTLAPNAIDDCSLLCCGRGYEKKVQIVEEKCNCKFIYCCEVRCEPCQKRIEKYLCL |
| 2927 | sp|Q8NI36|WDR36\_HUMAN | MCCTEGSLRKRDSQRAPEAVLCLQLWQRTVPLDTLKGLGTCFPSGPELRGAGIAAAMERASERRTASALFAGFRALGLFSNDIPHVVRFSALKRRFYVTTCVGKSFHTYDVQKLSLVAVSNSVPQDICCMAADGRLVFAAYGNVFSAFARNKEIVHTFKGHKAEIHFLQPFGDHIISVDTDGILIIWHIYSEEEYLQLTFDKSVFKISAILHPSTYLNKILLGSEQGSLQLWNVKSNKLLYTFPGWKVGVTALQQAPAVDVVAIGLMSGQVIIHNIKFNETLMKFRQDWGPITSISFRTDGHPVMAAGSPCGHIGLWDLEDKKLINQMRNAHSTAIAGLTFLHREPLLVTNGADNALRIWIFDGPTGEGRLLRFRMGHSAPLTNIRYYGQNGQQILSASQDGTLQSFSTVHEKFNKSLGHGLINKKRVKRKGLQNTMSVRLPPITKFAAEEARESDWDGIIACHQGKLSCSTWNYQKSTIGAYFLKPKELKKDDITATAVDITSCGNFAVIGLSSGTVDVYNMQSGIHRGSFGKDQAHKGSVRGVAVDGLNQLTVTTGSEGLLKFWNFKNKILIHSVSLSSSPNIMLLHRDSGILGLALDDFSISVLDIETRKIVREFSGHQGQINDMAFSPDGRWLISAAMDCSIRTWDLPSGCLIDCFLLDSAPLNVSMSPTGDFLATSHVDHLGIYLWSNISLYSVVSLRPLPADYVPSIVMLPGTCQTQDVEVSEETVEPSDELIEYDSPEQLNEQLVTLSLLPESRWKNLLNLDVIKKKNKPKEPPKVPKSAPFFIPTIPGLVPRYAAPEQNNDPQQSKVVNLGVLAQKSDFCLKLEEGLVNNKYDTALNLLKESGPSGIETELRSLSPDCGGSIEVMQSFLKMIGMMLDRKRDFELAQAYLALFLKLHLKMLPSEPVLLEEITNLSSQVEENWTHLQSLFNQSMCILNYLKSALL |
| 2928 | sp|Q9U299|XRN2\_CAEEL | MGVPAFFRWLTKKYPATVVNANEDRQRDQDGNRVPVDCTQPNPNFQEFDNLYLDMNGIIHPCTHPEDRPAPKNEDEMFALIFEYIDRIYSIVRPRRLLYMAIDGVAPRAKMNQQRSRRFRASKEMAEKEASIEEQRNRLMAEGIAVPPKKKEEAHFDSNCITPGTPFMARLADALRYYIHDRVTNDASWANIEIILSDANVPGEGEHKIMDYVRKQRGNPAHDPNTVHCLCGADADLIMLGIATHEANFNIIREEFVPNQPRACDLCGQYGHELKECRGAENETDLGDDYCKPEQREKNFIFLRIPVLREYLEKELSMPNLPFKFDVERALDDWVFLCFFVGNDFLPHLPSLEIREGAIDRLIKLYKEMVYQMKGYLTKDGIPELDRVEMIMKGLGRVEDEIFKRRQQDEERFQENQRNKKARMQMYGGGGRGGRGRGRGRGQQPAFVPTHGILAPMAAPMHHSGESTRQMASEARQTAMKFTNDANETAAANLKALLNVKGEESPADIASRKRKAEQPLIKPEEEEDEGPKDDIRLYESGWKDRYYRAKFDVGSDDIEFRHRVAWAYVEGLCWVLRYYYQGCASWDWYFPYHYAPFASDFETVGEFQPDFTRPTKPFNPLEQLMSVFPAASKQHLPVEWQKLMIQDDSPIIDLYPADFRIDLNGKKYAWQGVALLPFVDETRLLATLQSVYPTLTAEEKQRNTRGPNRIFIGRNHKSFEFFQQVAESKSDDLVPLDPTLLNGVSGKIAYDSTATAPGLPFVSPVNHDECQDLPTNCGICVLYEDPEYPQDYIFPALRLDGAKEPEKTLKPDDWNDRRDGRYQPQVGFNRNAPRGSLDQSGHRQVHHYVRGGGGGGGGYRGNSYDDRRGGGGGGGGYNDRQDFGRNYGGRDGGGPQRYHDQQQQRQGGYQGGGYGGGYGGGGGGGGGGGGGSYHQPYNQDQRRGGRGGGGGPPGYQRPPYRGGGGGGYHGNSSWR |
| 2929 | sp|Q5BJU7|WASF1\_RAT | MPLVKRNIDPRHLCHTALPRGIKNELECVTNISLANIIRQLSSLSKYAEDIFGELFNEAHSFSFRVNSLQERVDRLSVSVTQLDPKEEELSLQDITMRKAFRSSTIQDQQLFDRKTLPIPLQETYDVCEQPPPLNVLTPYRDDGKEGLKFYTNPSYFFDLWKEKMLQDTEDKRKEKRKQKQKNLDRPHEPEKVPRAPHDRRREWQKLAQGPELAEDDADLLHKHIEVANGPASHFETRPQTYVDHMDGSYSLSALPFSQMSELLSRAEERVLVRPHEPPPPPPMHAAGDARPTPTCVSSAAGLIENRPQSPAAGRTPVFVSPTPPPPPPPLPSALSTSSLRASMTSTPPPPVPPPPPPPAPALQAPAVPPPPAPLQIAPGVLHPAPPPIAPPLVQPSPPVARAAPVCETVPVHPLPQGEVQGLPPPPPPPPLPPPGIRPSSPVTVAALAHPPSGLHPTPSPAPGPHAPLMPPSPPSQVLPASEPKRHPSTLPVISDARSVLLEAIRKGIQLRKVEEQREQEAKHERIENDVATILSRRIAVEYSDSEDDSEFDEVDWLE |
| 2930 | sp|P39831|YDFG\_ECOLI | MIVLVTGATAGFGECITRRFIQQGHKVIATGRRQERLQELKDELGDNLYIAQLDVRNRAAIEEMLASLPAEWCNIDILVNNAGLALGMEPAHKASVEDWETMIDTNNKGLVYMTRAVLPGMVERNHGHIINIGSTAGSWPYAGGNVYGATKAFVRQFSLNLRTDLHGTAVRVTDIEPGLVGGTEFSNVRFKGDDGKAEKTYQNTVALTPEDVSEAVWWVSTLPAHVNINTLEMMPVTQSYAGLNVHRQ |
| 2931 | sp|Q07688|YPD1\_YEAST | MSTIPSEIINWTILNEIISMDDDDSDFSKGLIIQFIDQAQTTFAQMQRQLDGEKNLTELDNLGHFLKGSSAALGLQRIAWVCERIQNLGRKMEHFFPNKTELVNTLSDKSIINGINIDEDDEEIKIQVDDKDENSIYLILIAKALNQSRLEFKLARIELSKYYNTNL |
| 2932 | sp|Q9NS37|ZHANG\_HUMAN | MRHSLTKLLAASGSNSPTRSESPEPAATCSLPSDLTRAAAGEEETAAAGSPGRKQQFGDEGELEAGRGSRGGVAVRAPSPEEMEEEAIASLPGEETEDMDFLSGLELADLLDPRQPDWHLDPGLSSPGPLSSSGGGSDSGGLWRGDDDDEAAAAEMQRFSDLLQRLLNGIGGCSSSSDSGSAEKRRRKSPGGGGGGGSGNDNNQAATKSPRKAAAAAARLNRLKKKEYVMGLESRVRGLAAENQELRAENRELGKRVQALQEESRYLRAVLANETGLARLLSRLSGVGLRLTTSLFRDSPAGDHDYALPVGKQKQDLLEEDDSAGGVCLHVDKDKVSVEFCSACARKASSSLKM |
| 2933 | sp|A6QQJ8|ZC12A\_BOVIN | MSLWELEDRRSCQGTPRPAQEPTAEEATTAELQMKVDFFRKLGYSSAEIHSVLQKLGIQADTNTVLGELVKHGSAAERERQASPDPCPQLPLVPRGGGTPKAPTVETYPPEEDKEGSDLRPIVIDGSNVAMSHGNKDVFSCRGILLAVNWFLERGHTDITVFVPSWRKEQPRPDVPITDQHILRDLEKKKILVFTPSRRVGGKRVVCYDDRFIVKLAFESDGIVVSNDTYRDLQGERQEWKRFIEERLLMYSFVNDKFMPPDDPLGRHGPSLDNFLRKKPLTSEHKKQPCPYGRKCTYGIKCRFLHPERPSRPQRSVADELRANALLPPSRAASKDKNSRRPSPSSQPGSLPTEHEQCSPDRKKLGAQASPGTPREGLMQTFAPTGRSLPPSGSSGGSFGPSEWFPQTLDSLPYASQDCLDSGIGSLESQMSELWGVRGGGPGEPGPPRGPYAGYCTYGAELPATPAFSAFSRALGAGHFSVPADYAPPPAAFPPREYWSEPYQLPPPTQRLQEPQAPGPGADRGPWGGAGRLAKERASVYTKLCGVFPPHLVEAVMSRFPQLLDPQQLAAEILSYKSQHLSE |
| 2934 | sp|Q08376|ZBT14\_MOUSE | MEFFISMSETIKYNDDDHKTLFLKTLNEQRLEGEFCDIAIVVEDVKFRAHRCVLAACSTYFKKLFKKLEVDSSSVIEIDFLRSDIFEEVLNYMYTAKISVKKEDVNLMMSSGQILGIRFLDKLCSQKRDVSSPDESNGQSKSKYCLKLNRPIGDAADAQDDDVEEIGDQDDSPSDDTVEGTPPSQEDGKSPTTTLRVQEAILKELGSEEVRKVNCYGQEVESMETPESKDLGSQTPQALTFNDGMSEVKDEQTPGWTTAASDMKFEYLLYGHHREQIACQACGKTFSDEGRLRKHEKLHTADRPFVCEMCTKGFTTQAHLKEHLKIHTGYKPYSCEVCGKSFIRAPDLKKHERVHSNERPFACHMCDKAFKHKSHLKDHERRHRGEKPFVCGSCTKAFAKASDLKRHENNMHSERKQVTPSAIQSETEQLQAAAMAAEAEQQLETIACS |
| 2935 | sp|Q9H582|ZN644\_HUMAN | MRSFLQQDVNKTKSRLNVLNGLANNMDDLKINTDITGAKEELLDDNNFISDKESGVHKPKDCQTSFQKNNTLTLPEELSKDKSENALSGGQSSLFIHAGAPTVSSENFILPKGAAVNGPVSHSSLTKTSNMNKGSVSLTTGQPVDQPTTESCSTLKVAADLQLSTPQKASQHQVLFLLSDVAHAKNPTHSNKKLPTSASVGCDIQNSVGSNIKSDGTLINQVEVGEDGEDLLVKDDCVNTVTGISSGTDGFRSENDTNWDPQKEFIQFLMTNEETVDKAPPHSKIGLEKKRKRKMDVSKITRYTEDCFSDSNCVPNKSKMQEVDFLEQNEELQAVDSQKYALSKVKPESTDEDLESVDAFQHLIYNPDKCGEESSPVHTSTFLSNTLKKKCEESDSESPATFSTEEPSFYPCTKCNVNFREKKHLHRHMMYHLDGNSHFRHLNVPRPYACRECGRTFRDRNSLLKHMIIHQERRQKLMEEIRELKELQDEGRSARLQCPQCVFGTNCPKTFVQHAKTHEKDKRYYCCEECNFMAVTENELECHRGIAHGAVVKCPMVTSDIAQRKTQKKTFMKDSVVGSSKKSATYICKMCPFTTSAKSVLKKHTEYLHSSSCVDSFGSPLGLDKRKNDILEEPVDSDSTKTLTKQQSTTFPKNSALKQDVKRTFGSTSQSSSFSKIHKRPHRIQKARKSIAQSGVNMCNQNSSPHKNVTIKSSVDQKPKYFHQAAKEKSNAKANSHYLYRHKYENYRMIKKSGESYPVHFKKEEASSLNSLHLFSSSSNSHNNFISDPHKPDAKRPESFKDHRRVAVKRVIKESKKESSVGGEDLDSYPDFLHKMTVVVLQKLNSAEKKDSYETEDESSWDNVELGDYTTQAIEDETYSDINQEHVNLFPLFKSKVEGQEPGENATLSYDQNDGFYFEYYEDTGSNNFLHEIHDPQHLETADASLSKHSSVFHWTDLSLEKKSCPYCPATFETGVGLSNHVRGHLHRAGLSYEARHVVSPEQIATSDKMQHFKRTGTGTPVKRVRKAIEKSETTSEHTCQLCGGWFDTKIGLSNHVRGHLKRLGKTKWDAHKSPICVLNEMMQNEEKYEKILKALNSRRIIPRPFVAQKLASSDDFISQNVIPLEAYRNGLKTEALSVSASEEEGLNFLNEYDETKPELPSGKKNQSLTLIELLKNKRMGEERNSAISPQKIHNQTARKRFVQKCVLPLNEDSPLMYQPQKMDLTMHSALDCKQKKSRSRSGSKKKMLTLPHGADEVYILRCRFCGLVFRGPLSVQEDWIKHLQRHIVNANLPRTGAGMVEVTSLLKKPASITETSFSLLMAEAAS |
| 2936 | sp|Q9Y5Y6|ST14\_HUMAN | MGSDRARKGGGGPKDFGAGLKYNSRHEKVNGLEEGVEFLPVNNVKKVEKHGPGRWVVLAAVLIGLLLVLLGIGFLVWHLQYRDVRVQKVFNGYMRITNENFVDAYENSNSTEFVSLASKVKDALKLLYSGVPFLGPYHKESAVTAFSEGSVIAYYWSEFSIPQHLVEEAERVMAEERVVMLPPRARSLKSFVVTSVVAFPTDSKTVQRTQDNSCSFGLHARGVELMRFTTPGFPDSPYPAHARCQWALRGDADSVLSLTFRSFDLASCDERGSDLVTVYNTLSPMEPHALVQLCGTYPPSYNLTFHSSQNVLLITLITNTERRHPGFEATFFQLPRMSSCGGRLRKAQGTFNSPYYPGHYPPNIDCTWNIEVPNNQHVKVRFKFFYLLEPGVPAGTCPKDYVEINGEKYCGERSQFVVTSNSNKITVRFHSDQSYTDTGFLAEYLSYDSSDPCPGQFTCRTGRCIRKELRCDGWADCTDHSDELNCSCDAGHQFTCKNKFCKPLFWVCDSVNDCGDNSDEQGCSCPAQTFRCSNGKCLSKSQQCNGKDDCGDGSDEASCPKVNVVTCTKHTYRCLNGLCLSKGNPECDGKEDCSDGSDEKDCDCGLRSFTRQARVVGGTDADEGEWPWQVSLHALGQGHICGASLISPNWLVSAAHCYIDDRGFRYSDPTQWTAFLGLHDQSQRSAPGVQERRLKRIISHPFFNDFTFDYDIALLELEKPAEYSSMVRPICLPDASHVFPAGKAIWVTGWGHTQYGGTGALILQKGEIRVINQTTCENLLPQQITPRMMCVGFLSGGVDSCQGDSGGPLSSVEADGRIFQAGVVSWGDGCAQRNKPGVYTRLPLFRDWIKENTGV |
| 2937 | sp|P09547|SWI1\_YEAST | MDFFNLNNNNNNNNTTTTTTTTNNNNTNNNNTNNNNNPANNTNNNNSTGHSSNTNNNTNNNNTNTGASGVDDFQNFFDPKPFDQNLDSNNNNSNSNNNDNNNSNTVASSTNFTSPTAVVNNAAPANVTGGKAANFIQNQSPQFNSPYDSNNSNTNLNSLSPQAILAKNSIIDSSNLPLQAQQQLYGGNNNNNSTGIANDNVITPHFITNVQSISQNSSSSTPNTNSNSTPNANQQFLPFNNSASNNGNLTSNQLISNYAASNSMDRSSSASNEFVPNTSDNNNNSNNHNMRNNSNNKTSNNNNVTAVPAATPANTNNSTSNANTVFSERAAMFAALQQKQQQRFQALQQQQQQQQNQQQQNQQPQQQQQQQQNPKFLQSQRQQQQRSILQSLNPALQEKISTELNNKQYELFMKSLIENCKKRNMPLQSIPEIGNRKINLFYLYMLVQKFGGADQVTRTQQWSMVAQRLQISDYQQLESIYFRILLPYERHMISQEGIKETQAKRIFLQQFLQELLKKVQQQQQAAALANANNNINSASSAPTPAAPGASVPATAAPGTEAGIVPVSANTPKSLNSNININVNNNNIGQQQVKKPRKQRVKKKTKKELELERKEREDFQKRQQKLLEDQQRQQKLLLETKLRQQYEIELKKLPKVYKRSIVRNYKPLINRLKHYNGYDINYISKIGEKIDSNKPIFLFAPELGAINLHALSMSLQSKNLGEINTALNTLLVTSADSNLKISLVKYPELLDSLAILGMNLLSNLSQNVVPYHRNTSDYYYEDAGSNQYYVTQHDKMVDKIFEKVNNNATLTPNDSNDEKVTILVDSLTGNQLPTPTPTEMEPDLDTECFISMQSTSPAVKQWDLLPEPIRFLPNQFPLKIHRTPYLTSLKKIKDEIDDPFTKINTRGAEDPKVLINDQLSTISMILRNISFSDNNSRIMSRNFYLKRFISDLLWLVLIHPENFTCNRKILNFKKDLVIVLSNISHLLEIASSIDCLLILILVISFGQPKLNPMASSSSFGSESLTFNEFQLQWGKYQTFGVDILAKLFSLEKPNLNYFKSILLNKNTGNNLYDRNSNNNHKDKKLLRRLLNLYNDNNKNNNNRHNLLNDVVSFLFSAIPLQQVLSQSADPSLLIDQFSPVISQSLTSILVIVQKILPLSNEVFEISENNSDSNSNNNGNKDSSFNFNKNLPFVWLSSEENIGSGLLKLSEIILNINNSTSKNTLLQQQNYSKVLLPSINISCVQLIKCLVEKSICFENCLNNDPEILKKIASIPNLFPTDLEIFQLFTNPSVDIQIINQYQLLYNLKNDILTNLE |
| 2938 | sp|Q13043|STK4\_HUMAN | METVQLRNPPRRQLKKLDEDSLTKQPEEVFDVLEKLGEGSYGSVYKAIHKETGQIVAIKQVPVESDLQEIIKEISIMQQCDSPHVVKYYGSYFKNTDLWIVMEYCGAGSVSDIIRLRNKTLTEDEIATILQSTLKGLEYLHFMRKIHRDIKAGNILLNTEGHAKLADFGVAGQLTDTMAKRNTVIGTPFWMAPEVIQEIGYNCVADIWSLGITAIEMAEGKPPYADIHPMRAIFMIPTNPPPTFRKPELWSDNFTDFVKQCLVKSPEQRATATQLLQHPFVRSAKGVSILRDLINEAMDVKLKRQESQQREVDQDDEENSEEDEMDSGTMVRAVGDEMGTVRVASTMTDGANTMIEHDDTLPSQLGTMVINAEDEEEEGTMKRRDETMQPAKPSFLEYFEQKEKENQINSFGKSVPGPLKNSSDWKIPQDGDYEFLKSWTVEDLQKRLLALDPMMEQEIEEIRQKYQSKRQPILDAIEAKKRRQQNF |
| 2939 | sp|Q9FE59|SUC4\_ARATH | MATSDQDRRHRVTRNRPPIARPSTSSSRPVVSPPRSKVSKRVLLRVASVACGIQFGWALQLSLLTPYVQELGIPHAWASVIWLCGPLSGLFVQPLVGHSSDRCTSKYGRRRPFIVAGAVAISISVMVIGHAADIGWAFGDREGKIKPRAIVAFVLGFWILDVANNMTQGPCRALLADLTENDNRRTRVANGYFSLFMAVGNVLGYATGSYNGWYKIFTFTKTVACNVECANLKSAFYIDVVFIAITTILSVSAAHEVPLASLASEAHGQTSGTDEAFLSEIFGTFRYFPGNVWIILLVTALTWIGWFPFILFDTDWMGREIYGGEPNIGTSYSAGVSMGALGLMLNSVFLGITSVLMEKLCRKWGAGFVWGISNILMAICFLGMIITSFVASHLGYIGHEQPPASIVFAAVLIFTILGIPLAITYSVPYALISIRIESLGLGQGLSLGVLNLAIVIPQVIVSVGSGPWDQLFGGGNSPALAVGAATGFIGGIVAILALPRTRIQKPIPLP |
| 2940 | sp|Q9ES56|TPPC4\_MOUSE | MAIFSVYVVNKAGGLIYQWDSYSPRAEAEKTFSYPLDLLLKLHDERVLVAFGQRDGIRVGHAVLAINGMDVNGKYTADGKEVLEYLGNPANYPVSIRFGRPRLTSNEKLMLASMFHSLFAIGSQLSPEQGSSGIEMLETDTFKLHCFQTLTGIKFVVLADPRQAGIDSLLRKIYEIYSDFALKNPFYSLEMPIRCELFDQNLKLALEVAEKAGTFGPGS |
| 2941 | sp|Q9SYM4|TPS1\_ARATH | MPGNKYNCSSSHIPLSRTERLLRDRELREKRKSNRARNPNDVAGSSENSENDLRLEGDSSRQYVEQYLEGAAAAMAHDDACERQEVRPYNRQRLLVVANRLPVSAVRRGEDSWSLEISAGGLVSALLGVKEFEARWIGWAGVNVPDEVGQKALSKALAEKRCIPVFLDEEIVHQYYNGYCNNILWPLFHYLGLPQEDRLATTRSFQSQFAAYKKANQMFADVVNEHYEEGDVVWCHDYHLMFLPKCLKEYNSKMKVGWFLHTPFPSSEIHRTLPSRSELLRSVLAADLVGFHTYDYARHFVSACTRILGLEGTPEGVEDQGRLTRVAAFPIGIDSDRFIRALEVPEVIQHMKELKERFAGRKVMLGVDRLDMIKGIPQKILAFEKFLEENANWRDKVVLLQIAVPTRTDVPEYQKLTSQVHEIVGRINGRFGTLTAVPIHHLDRSLDFHALCALYAVTDVALVTSLRDGMNLVSYEFVACQEAKKGVLILSEFAGAAQSLGAGAILVNPWNITEVAASIGQALNMTAEEREKRHRHNFHHVKTHTAQEWAETFVSELNDTVIEAQLRISKVPPELPQHDAIQRYSKSNNRLLILGFNATLTEPVDNQGRRGDQIKEMDLNLHPELKGPLKALCSDPSTTIVVLSGSSRSVLDKNFGEYDMWLAAENGMFLRLTNGEWMTTMPEHLNMEWVDSVKHVFKYFTERTPRSHFETRDTSLIWNYKYADIEFGRLQARDLLQHLWTGPISNASVDVVQGSRSVEVRAVGVTKGAAIDRILGEIVHSKSMTTPIDYVLCIGHFLGKDEDVYTFFEPELPSDMPAIARSRPSSDSGAKSSSGDRRPPSKSTHNNNKSGSKSSSSSNSNNNNKSSQRSLQSERKSGSNHSLGNSRRPSPEKISWNVLDLKGENYFSCAVGRTRTNARYLLGSPDDVVCFLEKLADTTSSP |
| 2942 | sp|Q60HG2|TOR1A\_MACFA | MKLGRAALGLLLLAPSVVQAVEPISLGLALAGVLTGYIYPRLYCLFAECCGQKRSLSREALQKDLDNKLFGQHLAKKIILNAVFGFINNPKPKKPLTLSLHGWTGTGKNFVSKIIAENIYEGGLNSDYVHLFVATLHFPHASNITLYKDQLQLWIRGNVSACARSIFIFDEMDKMHAGLIDAIKPFLDYYDLVDGVSYQKAIFIFLSNAGAERITDVALDFWRSGKQREDIKLKDIEHALSVSVFNNKNSGFWHSSLIDRNLIDYFVPFLPLEYKHLKMCIRVEMQSRGYETNEDIVSRVAEEMTFFPKEERVFSDKGCKTVFTKLDYYYDD |
| 2943 | sp|Q6PCX9|TRI37\_MOUSE | MDEQSVESIAEVFRCFICMEKLRDARLCPHCSKLCCFSCIRRWLTEQRAQCPHCRAPLQLRELVNCRWAEEVTQQLDTLQLCSLTKHEENEKDKCENHHEKLSVFCWTCKKCICHQCALWGGMHGGHTFKPLAEIYEQHVTKVNEEVAKLRRRLMELISLVQEVERNVEAVRNAKDERVREIRNAVEMMIARLDTQLKNKLITLMGQKTSLTQETELLESLLQEVEHQLRSCSKSELISKSSEILMMFQQVHRKPMASFVTTPVPPDFTSELVPSYDSATFVLENFSTLRQRADPVYSPPLQVSGLCWRLKVYPDGNGVVRGYYLSVFLELSAGLPETSKYEYRVEMVHQSCNDPTKNIIREFASDFEVGECWGYNRFFRLDLLANEGYLNRQNDTVILRFQVRSPTFFQKCRDQHWYITQLEAAQTGYIQQINNLKERLTIELSRTQKSRDLSPPDNHLSPQNDDSPETRTKKAGSCSDMLLEGGPTCASVRETKEDEDEEEKIQNEDYHHELSDGDLDLDLVGEDEVNHLDGSSSSASSTATSNTEENDIDEETMSGENDVEYNSMELEEGELMEDAAAAGPPGSSHSYVGASSRMSRRTHLCSAATSSLLDIDPLILIHLLDLKDRSSMENLWGLQPRPSASLLQPTASYSRKDKDQRKQQAMWRVPSDLKMLKRLKTQMAEVRCMKTDVKTTLSDIKGSSVASTDMQTNLFCADQAALTTCGPENSGRLQDLGMELLAKSSVAGCYIRNPTNKKNSPKSARAIAGSLSLRRAVDSGENSRSKGDCQVLAEGSSGSSQSGSRHSSPRALTHGIIGDLLPKSEDRQCKALDSDAVVVAVFNGLPTVEKRRKMVTLGTNAKGGRLEGMQMADLESHSEAGEVQPTLPEGASAAPEEGMSSDSDIECDTENEEQEEHTSMGAFNDPFLAQPPDEDSHSSFPDGEQIDPENLHFNPDEGGGR |
| 2944 | sp|Q8IWZ5|TRI42\_HUMAN | METAMCVCCPCCTWQRCCPQLCSCLCCKFIFTSERNCTCFPCPYKDERNCQFCHCTCSESPNCHWCCCSWANDPNCKCCCTASSNLNCYYYESRCCRNTIITFHKGRLRSIHTSSKTALRTGSSDTQVDEVKSIPANSHLVNHLNCPMCSRLRLHSFMLPCNHSLCEKCLRQLQKHAEVTENFFILICPVCDRSHCMPYSNKMQLPENYLHGRLTKRYMQEHGYLKWRFDRSSGPILCQVCRNKRIAYKRCITCRLNLCNDCLKAFHSDVAMQDHVFVDTSAEEQDEKICIHHPSSRIIEYCRNDNKLLCTFCKFSFHNGHDTISLIDACSERAASLFSAIAKFKAVRYEIDNDLMEFNILKNSFKADKEAKRKEIRNGFLKLRSILQEKEKIIMEQIENLEVSRQKEIEKYVYVTTMKVNEMDGLIAYSKEALKETGQVAFLQSAKILVDQIEDGIQTTYRPDPQLRLHSINYVPLDFVELSSAIHELFPTGPKKVRSSGDSLPSPYPVHSETMIARKVTFSTHSLGNQHIYQRSSSMLSFSNTDKKAKVGLEACGRAQSATPAKPTDGLYTYWSAGADSQSVQNSSSFHNWYSFNDGSVKTPGPIVIYQTLVYPRAAKVYWTCPAEDVDSFEMEFYEVITSPPNNVQMELCGQIRDIMQQNLELHNLTPNTEYVFKVRAINDNGPGQWSDICKVVTPDGHGKNRAKWGLLKNIQSALQKHF |
| 2945 | sp|Q9ERP3|TRI54\_MOUSE | MNFTVGFKPLLGDAHNMDNLEKQLICPICLEMFSKPVVILPCQHNLCRKCANDVFQASNPLWQSRGSTTVSSGGRFRCPSCRHEVVLDRHGVYGLQRNLLVENIIDIYKQESSRPLHAKAEQHLMCEEHEDEKINIYCLSCEVPTCSLCKVFGAHKDCEVAPLPTIYKRQKSELSDGIAMLVAGNDRVQAVITQMEEVCQTIEDNSRRQKQLLNQRFETLCAVLEERKGELLQALAREQEEKLQRVRGLIRQYGDHLEGSSKLVESAIQSMEEPQMALYLQQAKELINKVGAMSKVELAGRPEPGYESMEQFSVSVEHVAEMLRTIDFQPGAAGDEEDDDMALDGEEGNAGLEEERLDVPEGSGLH |
| 2946 | sp|Q80WG7|TRI36\_MOUSE | MSESEEISEFGYIMELLAKGKVTIKNIEKELICPACKELFTHPLILPCQHSVCHKCVKELLLSLDDSFNDVASDSSNQSSPRLRLTSPSMDKIDKINRPGWKRNSLTPRPTTFPCPGCEHDVDLGERGVSGLFRNFTLETIVERYRQAARAATAIMCDLCKPPPQESTKSCMDCSASYCNECFKIYHPWGTVKAQHEYVGPTTNFRPKVLMCPEHETERINMYCELCRRPVCHLCKLGGNHSNHRVTTMSSAYKTLKEKLSKDIDFLIGKESQVKSQISELNLLMKETECNGERAKEEALAHFEKLFEILEDRKSSVLKAIDASKKLRLDKFHTQMEEYQGLLENNGLVGYAQEVLKETDQSCFVQTAKQLHLRIQKATESLKSFRPAAQASFEDYVVNISKQTEVLGELSFFSSGIDIPEINEEQSKVYNNALIDWHHPEKDKADSYVLEYRKINRDEEMISWNEIEVHGTSKVVSNLESNSPYAFRVRAYRGSICSPCSRELILHTPPAPVFSFLFDEKCGYNTEHLLLNLKRDRVESRAGFNVLLAAERIQVGHYTSLDYIIGDVGVTKGKHFWACRVEPYSYLVKVGVASSDKLQEWLRSPRDAASPRYEQDSGHDSGSEDACFDSSQPFTLVTIGMKKFFIPKSPTSSNEPENRVLPMPTSIGIFLDCDKGKVSFYDMDHMKCLYERQVDCSHTMYPAFALMGSGGIQLEEAITAKYLEYEEDV |
| 2947 | sp|Q9LZ03|TOP6A\_ARATH | MADKKKRKRSKDDEAEELPFKSILESDDVITELLKSYISSSIKAAAGAGGASSSSSKPLTLADLSLSSSCREVADLSLSSVQTEIETVIVQIARSILAGDGFSFSVPSRAASNQLYVPELDRIVLKDKSTLRPFASVSSVRKTTITTRILALIHQLCLRNIHVTKRDLFYTDVKLFQDQTQSDAVLDDVSCMLGCTRSSLNVIAAEKGVVVGRLIFSDNGDMIDCTKMGMGGKAIPPNIDRVGDMQSDAMFILLVEKDAAYMRLAEDRFYNRFPCIIVTAKGQPDVATRLFLRKMKMELKLPVLALVDSDPYGLKILSVYGCGSKNMSYDSANLTTPDIKWLGIRPSDLDKYKIPEQCRLPMTEQDIKTGKDMLEEDFVKKNPGWVEELNLMVKTKQKAEIQALSSFGFQYLSEVYLPLKLQQQDWL |
| 2948 | sp|Q381M1|TUT4\_TRYB2 | MPPSPAVVGRSLVNSFKQFVSKDLHTRHVDATYRLVLDCVAAVDPLMRLYTFGSTVVYGVHEKGSDVDFVVLNKTDVEDGKGGDAATQVAKGLQADILAKLARVIRQKHLSWNVEEVRRTRVPVVRVKGGGAVDFDITAYRRNGVRNSALLRAYFEQNPPCRWLSMSIKRWSKQTGLNASVIGGSITSYGFNLMVVYYLLQRNHLQFVPPSTIDVSRVEPLPPHLPLEEPADEGLELGTQVLDFLHFFLHEFDSDKQVISLNRPGITTKEELDWTKSAEDFARMNGEKVHYQWCIEDPYELNLNVGRNVTPLKRDFLRRHLEKARDTALLTIV |
| 2949 | sp|Q63739|TP4A1\_MOUSE | MARMNRPAPVEVTYKNMRFLITHNPTNATLNKFIEELKKYGVTTIVRVCEATYDTTLVEKEGIHVLDWPFDDGAPPSNQIVDDWLSLVKIKFREEPGCCIAVHCVAGLGRAPVLVALALIEGGMKYEDAVQFIRQKRRGAFNSKQLLYLEKYRPKMRLRFKDSNGHRNNCCIQ |
| 2950 | sp|Q9M156|U72B1\_ARATH | MEESKTPHVAIIPSPGMGHLIPLVEFAKRLVHLHGLTVTFVIAGEGPPSKAQRTVLDSLPSSISSVFLPPVDLTDLSSSTRIESRISLTVTRSNPELRKVFDSFVEGGRLPTALVVDLFGTDAFDVAVEFHVPPYIFYPTTANVLSFFLHLPKLDETVSCEFRELTEPLMLPGCVPVAGKDFLDPAQDRKDDAYKWLLHNTKRYKEAEGILVNTFFELEPNAIKALQEPGLDKPPVYPVGPLVNIGKQEAKQTEESECLKWLDNQPLGSVLYVSFGSGGTLTCEQLNELALGLADSEQRFLWVIRSPSGIANSSYFDSHSQTDPLTFLPPGFLERTKKRGFVIPFWAPQAQVLAHPSTGGFLTHCGWNSTLESVVSGIPLIAWPLYAEQKMNAVLLSEDIRAALRPRAGDDGLVRREEVARVVKGLMEGEEGKGVRNKMKELKEAACRVLKDDGTSTKALSLVALKWKAHKKELEQNGNH |
| 2951 | sp|Q8WVJ9|TWST2\_HUMAN | MEEGSSSPVSPVDSLGTSEEELERQPKRFGRKRRYSKKSSEDGSPTPGKRGKKGSPSAQSFEELQSQRILANVRERQRTQSLNEAFAALRKIIPTLPSDKLSKIQTLKLAARYIDFLYQVLQSDEMDNKMTSCSYVAHERLSYAFSVWRMEGAWSMSASH |
| 2952 | sp|Q91YR1|TWF1\_MOUSE | MSHQTGIQASEDVKEIFARARNGKYRLLKISIENEQLVVGSCSPPSDSWEQDYDSFVLPLLEDKQPCYVLFRLDSQNAQGYEWIFIAWSPDHSHVRQKMLYAATRATLKKEFGGGHIKDEVFGTVKEDVSLHGYKKYLLSQSSPAPLTAAEEELRQIKINEVQTDVSVDTKHQTLQGVAFPISRDAFQALEKLSKKQLNYVQLEIDIKNETIILANTENTELRDLPKRIPKDSARYHFFLYKHSHEGDYLESVVFIYSMPGYTCSIRERMLYSSCKSPLLEIVERQLQMDVIRKIEIDNGDELTADFLYDEVHPKQHAHKQSFAKPKGPAGKRGIRRLIRGPAEAEATTD |
| 2953 | sp|Q16560|U1SBP\_HUMAN | MNDWMPIAKEYDPLKAGSIDGTDEDPHDRAVWRAMLARYVPNKGVIGDPLLTLFVARLNLQTKEDKLKEVFSRYGDIRRLRLVRDLVTGFSKGYAFIEYKEERAVIKAYRDADGLVIDQHEIFVDYELERTLKGWIPRRLGGGLGGKKESGQLRFGGRDRPFRKPINLPVVKNDLYREGKRERRERSRSRERHWDSRTRDRDHDRGREKRWQEREPTRVWPDNDWERERDFRDDRIKGREKKERGK |
| 2954 | sp|Q9BZW7|TSG10\_HUMAN | MMRSRSKSPRRPSPTARGANCDVELLKTTTRDREELKCMLEKYERHLAEIQGNVKVLKSERDKIFLLYEQAQEEITRLRREMMKSCKSPKSTTAHAILRRVETERDVAFTDLRRMTTERDSLRERLKIAQETAFNEKAHLEQRIEELECTVHNLDDERMEQMSNMTLMKETISTVEKEMKSLARKAMDTESELGRQKAENNSLRLLYENTEKDLSDTQRHLAKKKYELQLTQEKIMCLDEKIDNFTRQNIAQREEISILGGTLNDLAKEKECLQACLDKKSENIASLGESLAMKEKTISGMKNIIAEMEQASRQCTEALIVCEQDVSRMRRQLDETNDELAQIARERDILAHDNDNLQEQFAKAKQENQALSKKLNDTHNELNDIKQKVQDTNLEVNKLKNILKSEESENRQMMEQLRKANEDAENWENKARQSEADNNTLKLELITAEAEGNRLKEKVDSLNREVEQHLNAERSYKSQISTLHKSVVKMEEELQKVQFEKVSALADLSSTRELCIKLDSSKELLNRQLVAKDQEIEMRENELDSAHSEIELLRSQMANERISMQNLEALLVANRDKEYQSQIALQEKESEIQLLKEHLCLAENKMAIQSRDVAQFRNVVTQLEADLDITKRQLGTERFERERAVQELRRQNYSSNAYHMSSTMKPNTKCHSPERAHHRSPDRGLDRSLEENLCYRDF |
| 2955 | sp|P35030|TRY3\_HUMAN | MCGPDDRCPARWPGPGRAVKCGKGLAAARPGRVERGGAQRGGAGLELHPLLGGRTWRAARDADGCEALGTVAVPFDDDDKIVGGYTCEENSLPYQVSLNSGSHFCGGSLISEQWVVSAAHCYKTRIQVRLGEHNIKVLEGNEQFINAAKIIRHPKYNRDTLDNDIMLIKLSSPAVINARVSTISLPTTPPAAGTECLISGWGNTLSFGADYPDELKCLDAPVLTQAECKASYPGKITNSMFCVGFLEGGKDSCQRDSGGPVVCNGQLQGVVSWGHGCAWKNRPGVYTKVYNYVDWIKDTIAANS |
| 2956 | sp|Q69YN4|VIR\_HUMAN | MAVDSAMELLFLDTFKHPSAEQSSHIDVVRFPCVVYINEVRVIPPGVRAHSSLPDNRAYGETSPHTFQLDLFFNNVSKPSAPVFDRLGSLEYDENTSIIFRPNSKVNTDGLVLRGWYNCLTLAIYGSVDRVISHDRDSPPPPPPPPPPPQPQPSLKRNPKHADGEKEDQFNGSPPRPQPRGPRTPPGPPPPDDDEDDPVPLPVSGDKEEDAPHREDYFEPISPDRNSVPQEGQYSDEGEVEEEQQEEGEEDEDDVDVEEEEDEDEDDRRTVDSIPEEEEEDEEEEGEEDEEGEGDDGYEQISSDEDGIADLERETFKYPNFDVEYTAEDLASVPPMTYDPYDRELVPLLYFSCPYKTTFEIEISRMKDQGPDKENSGAIEASVKLTELLDLYREDRGAKWVTALEEIPSLIIKGLSYLQLKNTKQDSLGQLVDWTMQALNLQVALRQPIALNVRQLKAGTKLVSSLAECGAQGVTGLLQAGVISGLFELLFADHVSSSLKLNAFKALDSVISMTEGMEAFLRGRQNEKSGYQKLLELILLDQTVRVVTAGSAILQKCHFYEVLSEIKRLGDHLAEKTSSLPNHSEPDHDTDAGLERTNPEYENEVEASMDMDLLESSNISEGEIERLINLLEEVFHLMETAPHTMIQQPVKSFPTMARITGPPERDDPYPVLFRYLHSHHFLELVTLLLSIPVTSAHPGVLQATKDVLKFLAQSQKGLLFFMSEYEATNLLIRALCHFYDQDEEEGLQSDGVIDDAFALWLQDSTQTLQCITELFSHFQRCTASEETDHSDLLGTLHNLYLITFNPVGRSAVGHVFSLEKNLQSLITLMEYYSKEALGDSKSKKSVAYNYACILILVVVQSSSDVQMLEQHAASLLKLCKADENNAKLQELGKWLEPLKNLRFEINCIPNLIEYVKQNIDNLMTPEGVGLTTALRVLCNVACPPPPVEGQQKDLKWNLAVIQLFSAEGMDTFIRVLQKLNSILTQPWRLHVNMGTTLHRVTTISMARCTLTLLKTMLTELLRGGSFEFKDMRVPSALVTLHMLLCSIPLSGRLDSDEQKIQNDIIDILLTFTQGVNEKLTISEETLANNTWSLMLKEVLSSILKVPEGFFSGLILLSELLPLPLPMQTTQVIEPHDISVALNTRKLWSMHLHVQAKLLQEIVRSFSGTTCQPIQHMLRRICVQLCDLASPTALLIMRTVLDLIVEDLQSTSEDKEKQYTSQTTRLLALLDALASHKACKLAILHLINGTIKGDERYAEIFQDLLALVRSPGDSVIRQQCVEYVTSILQSLCDQDIALILPSSSEGSISELEQLSNSLPNKELMTSICDCLLATLANSESSYNCLLTCVRTMMFLAEHDYGLFHLKSSLRKNSSALHSLLKRVVSTFSKDTGELASSFLEFMRQILNSDTIGCCGDDNGLMEVEGAHTSRTMSINAAELKQLLQSKEESPENLFLELEKLVLEHSKDDDNLDSLLDSVVGLKQMLESSGDPLPLSDQDVEPVLSAPESLQNLFNNRTAYVLADVMDDQLKSMWFTPFQAEEIDTDLDLVKVDLIELSEKCCSDFDLHSELERSFLSEPSSPGRTKTTKGFKLGKHKHETFITSSGKSEYIEPAKRAHVVPPPRGRGRGGFGQGIRPHDIFRQRKQNTSRPPSMHVDDFVAAESKEVVPQDGIPPPKRPLKVSQKISSRGGFSGNRGGRGAFHSQNRFFTPPASKGNYSRREGTRGSSWSAQNTPRGNYNESRGGQSNFNRGPLPPLRPLSSTGYRPSPRDRASRGRGGLGPSWASANSGSGGSRGKFVSGGSGRGRHVRSFTR |
| 2957 | sp|Q8L5Y0|VPS39\_ARATH | MVHNAYDSFQLLKDCPARIDAVESYGSKLFAGCYDGSLRIYSPPESSASDPSELHQETYVLEKTVAGFSKKPIVAMEVLASRELLLSLSESIAFHGLPNLETVAVITKAKGANAYSWDDRRGFLCFSRQKRVCVFKHDGGGGFVEVRDYGVPDTVKSISWCGENICLGIKKEYVILNTANGTLSEVFPSGRVAPPLVISLPSGELILGKENIGVFVDQNGKLLQTERICWSEAPTSIVIQNPYAIALLPRRVEVRLLRSPYPLIQTIVLQNIRRLVKSNNAVIVGLDNSVYVLFPVSIGAQIVQLTASGNFEEALALCKVLPPDESSLRAAKESSIHTRFAHYLFENGSYEEAMEHFLASQVDITHVLSMYPSIILPKTTIIPQPDKMVDISGDEASLSRGSSGISDDMESSSPRYFLESEDNADLESKKMSHNTLMALIKYLLKRRPAVIEKATSEGTEEVISDAVGKTYGANDSSKSKKSSKGRGMIPLNSGAREMAAILDTALLQALLHTGQSGAAIELLKGVNYSDVKICEEILMKSKNYSALLELFKSNSMHHEALKLLNQLADESKTNQSQTDVTQIFSPELIIEYLKPLCRTDPMLVLEYSMLVLESCPTQTIDLFLSGNISADLVNSYLKQHAPNMQGRYLELMMAMNDTAVSGNLQNEMVQIYLSEVLDLYAAKSAQQKWDEKDHPPERKKLLSALESISGYSPQPLLKRLPRDALYEERAVILGKMNQHELALSIYVHKLHAPDLALAYCDRIYESVTYLPSGKPSSNIYLTVLQIYLNPKKSAKDFAKRIVALGSFESSDTTKMMDSVLSSKAKGGRSKKIVAIEGAEDMRVGLSSSTDSGRSDVDTEEPLEEGDSTVMISEVLDLLSQRWERINGAQALKLLPRETKLHNLLPFLAPLLRNSSEAHRNFSVIKSLRQSENLQVKEELYKHRKGVAQVTSESMCSLCNKKIGTSVFAVYPNGKTLVHFVCFRDSQGMKAVSKTTHGRRR |
| 2958 | sp|Q562E7|WDR81\_HUMAN | MAQGSGGREGALRTPAGGWHSPPSPDMQELLRSVERDLSIDPRQLAPAPGGTHVVALVPARWLASLRDRRLPLGPCPRAEGLGEAEVRTLLQRSVQRLPAGWTRVEVHGLRKRRLSYPLGGGLPFEDGSCGPETLTRFMQEVAAQNYRNLWRHAYHTYGQPYSHSPAPSAVPALDSVRQALQRVYGCSFLPVGETTQCPSYAREGPCPPRGSPACPSLLRAEALLESPEMLYVVHPYVQFSLHDVVTFSPAKLTNSQAKVLFILFRVLRAMDACHRQGLACGALSLYHIAVDEKLCSELRLDLSAYERPEEDENEEAPVARDEAGIVSQEEQGGQPGQPTGQEELRSLVLDWVHGRISNFHYLMQLNRLAGRRQGDPNYHPVLPWVVDFTTPHGRFRDLRKSKFRLNKGDKQLDFTYEMTRQAFVAGGAGGGEPPHVPHHISDVLSDITYYVYKARRTPRSVLCGHVRAQWEPHEYPASMERMQNWTPDECIPEFYTDPSIFRSIHPDMPDLDVPAWCSSSQEFVAAHRALLESREVSRDLHHWIDLTFGYKLQGKEAVKEKNVCLHLVDAHTHLASYGVVQLFDQPHPQRLAGAPALAPEPPLIPKLLVQTIQETTGREDFTENPGQLPNGVGRPVLEATPCEASWTRDRPVAGEDDLEQATEALDSISLAGKAGDQLGSSSQASPGLLSFSVASASRPGRRNKAAGADPGEGEEGRILLPEGFNPMQALEELEKTGNFLAKGLGGLLEVPEQPRVQPAVPLQCLLHRDMQALGVLLAEMVFATRVRTLQPDAPLWVRFQAVRGLCTRHPKEVPVSLQPVLDTLLQMSGPEVPMGAERGKLDQLFEYRPVSQGLPPPCPSQLLSPFSSVVPFPPYFPALHRFILLYQARRVEDEAQGRELVFALWQQLGAVLKDITPEGLEILLPFVLSLMSEEHTAVYTAWYLFEPVAKALGPKNANKYLLKPLIGAYESPCQLHGRFYLYTDCFVAQLMVRLGLQAFLTHLLPHVLQVLAGAEASQEESKDLAGAAEEEESGLPGAGPGSCAFGEEIPMDGEPPASSGLGLPDYTSGVSFHDQADLPETEDFQAGLYVTESPQPQEAEAVSLGRLSDKSSTSETSLGEERAPDEGGAPVDKSSLRSGDSSQDLKQSEGSEEEEEEEDSCVVLEEEEGEQEEVTGASELTLSDTVLSMETVVAGGSGGDGEEEEEALPEQSEGKEQKILLDTACKMVRWLSAKLGPTVASRHVARNLLRLLTSCYVGPTRQQFTVSSGESPPLSAGNIYQKRPVLGDIVSGPVLSCLLHIARLYGEPVLTYQYLPYISYLVAPGSASGPSRLNSRKEAGLLAAVTLTQKIIVYLSDTTLMDILPRISHEVLLPVLSFLTSLVTGFPSGAQARTILCVKTISLIALICLRIGQEMVQQHLSEPVATFFQVFSQLHELRQQDLKLDPAGRGEGQLPQVVFSDGQQRPVDPALLDELQKVFTLEMAYTIYVPFSCLLGDIIRKIIPNHELVGELAALYLESISPSSRNPASVEPTMPGTGPEWDPHGGGCPQDDGHSGTFGSVLVGNRIQIPNDSRPENPGPLGPISGVGGGGLGSGSDDNALKQELPRSVHGLSGNWLAYWQYEIGVSQQDAHFHFHQIRLQSFPGHSGAVKCVAPLSSEDFFLSGSKDRTVRLWPLYNYGDGTSETAPRLVYTQHRKSVFFVGQLEAPQHVVSCDGAVHVWDPFTGKTLRTVEPLDSRVPLTAVAVMPAPHTSITMASSDSTLRFVDCRKPGLQHEFRLGGGLNPGLVRALAISPSGRSVVAGFSSGFMVLLDTRTGLVLRGWPAHEGDILQIKAVEGSVLVSSSSDHSLTVWKELEQKPTHHYKSASDPIHTFDLYGSEVVTGTVSNKIGVCSLLEPPSQATTKLSSENFRGTLTSLALLPTKRHLLLGSDNGVIRLLA |
| 2959 | sp|Q9V3J8|WDS\_DROME | MVPIGAVHGGHPGVVHPPQQPLPTAPSGPNSLQPNSVGQPGATTSSNSSASNKSSLSVKPNYTLKFTLAGHTKAVSAVKFSPNGEWLASSSADKLIKIWGAYDGKFEKTISGHKLGISDVAWSSDSRLLVSGSDDKTLKVWELSTGKSLKTLKGHSNYVFCCNFNPQSNLIVSGSFDESVRIWDVRTGKCLKTLPAHSDPVSAVHFNRDGSLIVSSSYDGLCRIWDTASGQCLKTLIDDDNPPVSFVKFSPNGKYILAATLDNTLKLWDYSKGKCLKTYTGHKNEKYCIFANFSVTGGKWIVSGSEDNMVYIWNLQSKEVVQKLQGHTDTVLCTACHPTENIIASAALENDKTIKLWKSDT |
| 2960 | sp|F4IDS7|VPS18\_ARATH | MDQGRQVFSVDLLERYATKNRGMITCMAAGNDVIVLGTSKGWIIRYDFGVGSSNDIDLAVGRTGEQSIHKVFVDPGGSHCIATVTGVGGAETFYTHAKWLKPRVLSRLKGLLVNAVAWNRQQITEVSTKEIILGTQDGQLFEMAVDEKDKREKYIKFLFELEELPEAFKALQMETANISSGMRYYVMAVTPTRLYSFTGIGTLESVFASYKERAVHFMELPGEIPNSELHFFIKQRRAVHFAWLSGTGIYHGGLNFGAQHSYPNGDENFVENKALLDYSKLSDGTEAVKPGSMALSEYHFLLLIGNKVKVVNRISEQIIEELQFDITSDSVSRGIIGLCSDASANVFYAYDQNSIFQVSVIDEGRDMWKVYLDLKVYAAALANCRDPLQRDQVYLVQAESAFTDKEYLRAASFYAKINYVISFEEVTLKFISINEPEALRTFLLHKLDNLSKDDKCQITMISTWATELYLDKINRLLLEDDTAIENRDSEYHSVIQEFRAFMSDCKDELDEATTVKILESYGRVEELVYFANLKEQYEIVVLHYIQQGEAKKALEVLQKSSVSVELQYQFAPELIMLDAYETVESWMANKNLNPRRLITAMMRYSSGPHAKNETHEVIKYLEFCVHRLHNEDPGIHSLLLSLYAKQEDDGALLRFLQCKFGKGRENGPEFFYDPKYALRLCLKERRTRACVHIYSMMSMHEEAVALALQIDPELAMAEADKVEDDEDLRKKLWLMVAKHVVKQEKGAKRENIRKAIAFLKETDGLLKIEDILPFFPDFALIDDFKEAICSSLEDYNKQIEQLKEEMNDATRGADNIRNDISALTQRYAVIDRDEECGVCKRKILMMSGDFRMAQGYSSAGPLAPFYVFPCGHSFHAQCLITHVTSCAHEEQAEHILDLQKQLTLLGSETRRDINGNRSDEPITSTTTADKLRSELDDAIASECPFCGELMINEITLPFIKPEDSQYSTSWDLRSETNLANQRTISLPV |
| 2961 | sp|Q4QZZ9|XANA\_EMEND | MPAITVKPLTPPAGSAIDFGAVITDVDLEHLTDGDFSTIRSALYTHLVVVLKNQHQLTPKAQYELTRRFDPSATQYGHGKTLDAKRSILHPDLKTIPHQPQVQVIGHGFIDSYEGLENITLKHPHHRTFHRDPIPQEDDYDSTRFYRWHIDAALYGLNPPIVTTLLAVKVPGGRRQTVRYDDGSGETMDVPLGTTAFASGERMFELLSEEDKEFALSSRVEYAPHPYIWMSPARSLPTGLGLHSDDLELPLSELPPIDESAIQILPMVWKNPATGKPALQIHPSAVRKIHCGDGTVIDDLKKVREIAYKLQRPAISPQYVYAHDWEEGDLVLFHNRGVLHSVVGAFGEGEVRLFRQCNLAAGEGVVPYRE |
| 2962 | sp|Q00519|XDH\_MOUSE | MTRTTVDELVFFVNGKKVVEKNADPETTLLVYLRRKLGLCGTKLGCGEGGCGACTVMISKYDRLQNKIVHFSVNACLTPICSLHHVAVTTVEGIGNTKKLHPVQERIAKSHGSQCGFCTPGIVMSMYTLLRNKPEPTVEEIENAFQGNLCRCTGYRPILQGFRTFAKDGGCCGGSGNNPNCCMSQTKDQTIAPSSSLFNPEDFKPLDPTQEPIFPPELLRLKDTPRKTLRFEGERVTWIQVSTMEELLDLKAQHPDAKLVVGNTEIGIEMKFKNMLFPLIICPAWILELTSVAHGPEGISFGAACPLSLVESVLADAIATLPEQRTEVFRGVMEQLRWFAGKQVKSVASIGGNIITASPISDLNPVLMASRAKLTLASRGTKRTVWMDHTFFPGYRRTLLSPEEILVSIVIPYSRKGEFFSAFKQASRREDDIAKVTSGMRVLFKPGTTEVQELSLCFGGMADRTVSALKTTPKQLSKSWNEELLQDVCAGLAEELHLAPDAPGGMVEFRRTLTLSFFFKFYLTVLQKLGRADLEGMCGKLDPTFASATLLFQKDPPANVQLFQEVPKGQSEEDMVGRPMPHLAADMQASGEAVYCDDIPRYENELSLRLVTSTRAHAKIMSIDTSEAKKVPGFVCFLTSEDVPGSNITGIFNDETVFAKDEVTCVGHIIGAVVADTPEHAHRAARGVKITYEDLPAIITIQDAIKNNSFYGPEVKIEKGDLKKGFSEADNVVSGELYIGGQEHFYLETHCTIAVPKGEAGEMELFVSTQNTMKTQSFIAKMLGVPDNRIVVRVKRMGGGFGGKETRSTLISTAVALAAYKTGRPVRCMLDRDEDMLITGGRHPFLAKYKVGFMKTGTIVALEVAHFSNGGNSEDLSRSIMERAVFHMDNAYKIPNIRGTGRICKTNLPSNTAFRGFGGPQGMLIAEYWMSEVAVTCGLPAEEVRRKNMYKEGDLTHFNQKLEGFTLPRCWDECIASSQYQARKMEVEKFNRENCWKKRGLCIIPTKFGISFTLSFLNQGGALVHVYTDGSVLLTHGGTEMGQGLHTKMVQVASRALKIPTSKIHITETSTNTVPNTSPTAASASADLNGQAIYEACQTILKRLEPFKKKNPSGSWESWVMDAYTSAVSLSATGFYKTPNLGYSFETNSGNPFHYFSYGVACSEVEIDCLTGDHKNLRTDIVMDVGSSLNPAIDIGQVEGAFVQGLGLFTMEELHYSPEGSLHTRGPSTYKIPAFGSIPIEFRVSLLRDCPNKRAIYASKAVGEPPLFLASSIFFAIKDAIRAARAQHGDSNAKQLFQLDSPATPEKIRNACVDQFTTLCATGTPENCKSWSVRI |
| 2963 | sp|Q60596|XRCC1\_MOUSE | MPEISLRHVVSCSSQDSTHCAENLLKADTYRKWRAAKAGEKTISVVLQLEKEEQIHSVDIGNDGSAFVEVLVGSSAGGATAGEQDYEVLLVTSSFMSPSESRSGSNPNRVRIFGPDKLVRAAAEKRWDRVKIVCSQPYSKDSPYGLSFVKFHSPPDKDEAEATSQKVTVTKLGQFRVKEEDDSANSLKPGALFFSRINKTSSASTSDPAGPSYAAATLQASSAASSASPVPKVVGSSSKPQEPPKGKRKLDLSLEDRKPPSKPSAGPSTLKRPKLSVPSRTPAAAPASTPAQRAVPGKPRGEGTEPRGARTGPQELGKILQGVVVVLSGFQNPFRSELRDKALELGAKYRPDWTPDSTHLICAFANTPKYSQVLGLGGRIVRKEWVLDCHHMRRRLPSRRYLMAGLGSSSEDEGDSHSESGEDEAPKLPQKRPQPKAKTQAAGPSSPPRPPTPKETKAPSPGPQDNSDTEGEESEGRDNGAEDSGDTEDELRRVAKQREQRQPPAPEENGEDPYAGSTDENTDSETPSEADLPIPELPDFFEGKHFFLYGEFPGDERRRLIRYVTAFNGELEDYMNERVQFVITAQEWDPNFEEALMENPSLAFVRPRWIYSCNEKQKLLPHQLYGVVPQA |
| 2964 | sp|O70373|XIRP1\_MOUSE | MADAQMQVAPTPTIQMRTEEDLSLPHPSAPEGLPPPPPKETFSKFQQQRQASELRRLYKHIHPELRKNLEEAVAEDLAEVLGSEEPTEGDVQCMRWIFENWRLDAIGDHERPAAREPVSGGNVQATSRKFEEGSFTNSSDQEPEGLRPSGGDVQAARQMFETKPLDALRGQEEATQTTMREPAATGDVQGTRKLFETRPLDRLGSRPSIQEQSPLELRSEIQELKGDVKKTVKLFQTEPLCAIQDAEGTIHEVKAACREEIQSNAVRSARWLFETRPLDAFNQDPSQVRVIRGISLEEGALPDVSATRWIFETQPLDAIREIEVDEKDFQPSPDLIPPGPDVQHQRHLFETCSLDTLKGERETEAEVPPKEEVIPGDVRSTLWLFETKPLDAFRDQVQVGHLQRVGHQEGEGLVTECLPSNGTSVLPLSQGVPQNDGLKGDVKTFKNLFETLPLDSIGQGEPSAYGNINRGQNTDSAEQSQGSDAPVYAMQDSRGQLHALTSVSREQVVGGDVQGYKWMFETQPLDTLGRSPSTIDVVRGITRQEVVAGDVGTTRWLFETQPLEMIHQQEQQKPEEEEGKGPGGPPPELPKKGDVQTIRWLFETYPMSELAEKRESEVTDPVSKAETQSCTWMFGPQSLNPAEGSGEQHLQTSQVPAGDRQTDRHVFETESLPASNQSSGRKPVRYCSRVEIPSGQVSRQKEVFQALEAGKKEVPETTINLGSIPTGSVHKFTWLFENCPMGSLAAESIRGDNLQEEQPKGSAGHGTPERQETAAERTLRTLHATPGILHHGGILMEARGPGELCLAKYVLPSPGQGRPYIRKEELVCGELPRIVRQVLRRTDVDQQGLLVQEDTAGQLQLHPLMLPGPGDPGNIEDMDPELQQLLACGLGVSVSKTGLVMQETGQGLVALTAYSLQPQLTSRAPERSSVQLLASCIDKGDLHSLHSLRWEPPTDPSSGPATEESQRVPPTESIIHVTPLDSTMEMGQLRISGSTPCPPPSRAAGKVVLPNGKPVAQAPLQEARKKRDISHAGQKGKAASGRPEASPLGSGAPDLQEAMQNLRLATAEAQSLHQQVLSRHPQGSDPVATSMPVQDVLQASTPATGVTQGSIRPVAGSEARIPAVPRKLL |
| 2965 | sp|Q4U4S6|XIRP2\_MOUSE | MARYQAAVSRGDTRSFSANVMEESDVCTVPGGLAKMKRQFEKDKMTSTCNAFSEYQYRHESRAEQEAIHSSQEIIRRNEQEVSKGHGTDVFKAEMMSHLEKHTEETKQASQFHQYVQETVIDSPEEEELPKVSTKILKEQFEKSAQENFLRSDKETSPPAKCMKIENDIEETLKPSSAVGTSSSYTSTRQRKETSTSSYSNHSLTSTTLAQDNGTPSGKMEEFPPPPPDVCQTPMDVTAFSQSPEFPSPPRRLPMPKDLYSKQRNLYELNRLYRHIHPELRKNLEKDYISEVSEIVSSQINSGNALSADVQKARYVFENTNDSSQKDLNSERENLEWDEILKGEVQSIRWIFENQPLDSINHGSTDEGYTSKGIADQELIAGSDVKYTTWMFETQPIDALGIPSAGTEGNTEKIPELARGDVYTARWMFETRPLDSMNKMHECQEETASTLTKDITGGDVKTVRYMFETQQLDQLGQLHSVDELNLLQLRSELKEIKGNVKRSIKCFETQPLYVIRDGSGQMLEIKTVQREDIEKGDVRTARWMFETQPLDTINKDITEIKVVRGISMEENVKGGVSRAKWLFETQPLEKIKEESGEAVLKTEAVIGTDVSKKCWMFETQPLDILKDSPDTDSVSPEERIGGDVKTTKHLFETLPIEALKDSPDIGKLQKITASEEEKGDVKHQKWVFETQRLEDIREDKKEYTRTVRLEAVDRGHVKNYTHIFESNNLIKVDASHQIEVEGVTRGTVELNKSLFETTPLYAIQDHLGKYHQVKTVQQEEIVRGDVRSCRWLFETRPIDQFDESLHKFQIIRGISAQEIQAGNVKSARWLFETQPLDSIKYFSNVEETDSKTEQSTDIVKGDVKTCKWLFETQPMESLYEKASLMTNSEDIHKGDVRTCMWLFETQPLDAIKDDSEATVKLQTVKQEEIQGGDVQTACFLFETENLDNIQGDEGKENKPLEMDIQSGDVSGMKFKFENQSLDSINCSSENVLSKIKTLKAEDIQKGNVLKCRWLFENQPIDMIKESQECDGLVKTVTDVQGGDVRKGCFIFETFSLDEIKDESDGISMRETNLGEIIKGDVKSYKMLFETQPLYAIQDHEGFYHEVTTVKKEETIHGDVRGTRWLFETKPLDSIHESEDVYVIKSVTQEDIQKGDVSSVRYRFETQPLDMISDKSHNIVPTVDYIQGGNVQMNKQLFESEGGNKKNYVRTVSVNEIQKGNVKTSTWLFETHRIDELGEESRYENIKTVTQEDVQKGDVKQAVWLFENQTLDSINELDENDTKMTKEEIPPSDVKTTTWLFETTPIHEFNKTRVEKEEIIGKSIKETLEDLYSQRVVEAPGIIIEADEVGDVRMAKYKLMNQTTPEIQKEEVIRADLGNIMMNLLSQRDCTKKEIFVSEEEKGNVNFTKTQLLNRSMEFHAEKEEIVRGDVKQAIQKLFSEERRAKKGILIQEDEKGDINMTIYCLLHENAGDKTEREDILGGDVRRTIHNLLSSASNGKISERTKIDASERGNVQFFTTCIETGALDYLKQLQTGSNESTLTASKQEGEEEIIGGDVEGTKFLLKKRQSSFERTVSETDIIPGDVRHTVKVFMTEPQSSSYKTVKDEIIKGDLKSTLNSLNQAMNQKTVAKAEEIVKDDRLAILKSLKESGDRQKEPKQSGGMSRDIGQAIECLERATNTRTEILKKELILDDLKTSLRSLKEEQCGFKEVDKQGIVKDVLPGMLGFSERPKIGIHPAAVQRDKKSLLQPVPGPFEPAIKQQAGPGTLDETTQKPCLRSLIEERTEANLPKAPKGTVKIVIDREQNNDALEKSLRKMSNSEHRAMKNVLDMSDRMGIWTESKEYLCSDDHMSKHLSATMSIKESLKSKESENMREAKDDVISSTQSVDKTFRKQQTQTCELGNDQKSRFQDSYGKNQKNIQNIEITRDFQKQALLSQEKQYSNKEMKKNEASLQPLPVGKEVHSVPGVTVSGKNHKRIQATDKRQKTDVCLESQDFLMKTNTSKELKMAMERSFNPINLHPECGIKENEDSLPPPSPPPLPPSNASSEIEFPLPPPPPLMLLPGKNESPPSSPTEKTRTEFESLSTLPLPPPPVDEKAEQECLSTTLPPPPPPTPCQPGHLLPSSVLGHHREAFLQQFSQKEALGVHLPHSQAKILTGKSPPPTLPKPKLPKRIKDKMNQYSSSGELERSLSDVEIKATLSKDQKRSMVTMSSEHRETKQDVFGKGLVGRKQLPVDSANSLSQTVPEIPAPKEKQTAPLVKSHSFPSGSEQQSPKPYMRKFKTPLMIAEEKYRQQREELEKQRQESSSHNVIKTETQHQSLSEKEEEIELQKATEAISTPRKESDFPRARPNLDSESRAVIAGECSESQLATASTLTVATERLQHVLAASEDELTLRQEGIQNSSDASQSKLACETSQSHKECKAQQTFEQHVKRLPFPQTKPSSPSFKVKTIKLSTLDHTGTETDLSSKHHTKQSEVDIQTSTEQTDKEIKKTQASIQCDDKPSVPEKYFQLPKTEKRVTIQMPKEYAEKSHKSKLQTVPKKQGIFGEFDRGNVLGREGKNQDSSVSCSKEDRLIDERKQEHLQNQRVPRSVQQKVINERLDSQMQNFQQTEIQTSRSTIECEEFSQSYNATQEKTCLKDKGKQQGQVTSNTEESKQELRQNQSAFSSVKDSQHDDGKCTINILEFLRKREELQQILSRVKQFEAESSKSGLKTFQILLNIVPVWLISEEKREYGVRVAMENNFEKVKEEITHIKTQAEEMLLQCEHVIQTAMMASQTGKQRDKPTNLNEMPLNVSNVNLSSSKCTEQKESKTVEEKLTHRQVTTHPEAATRNPVKPYQEAKGEDGKMAPPSLKTRPPSPTFITIESTARRAETSTKSELSQSPKNNRCIEPPPRRPVEHASGLPRSRTPPSPPRSRSEQLVRLKDTTARLAKGTIPCSPGTPVPIVEKRSEVVMSPATLRRQIKIESRGGDSPPTITIPVSVNHVVSGSFRESVDAQEAVKKTEKTETYVHKDKMNSVNRAMPETESYDAVEIIRKVEGPHLSEHTERFEATNQTVQRAERFLNGHENEINRWFREFENDPVFRAKTERGAYANGEINHNMKQESHTFCKEEFGLASSETANFTGFSYRHPKVPAMQPRVHSEARSLNEHFSSVDAFDSQIVGSKVATSSSRSTEAGRSGFDFKHAPPTYEDVISGHILDVADSPTNLRRNFQKTWQESERVFQRVGYETSDAHATEMSRAFQEESAFLSDKEICIICQKTVYPMECLIADKQNFHKSCFRCHHCSSKLSLGNYASLHGRIYCKPHFKQLFKSKGNYDEGFGHKQHKDRWNCKNQSSLVDFIPSGEPDAHENPTADTLLLGDLTTHPDACNSKRQDNDLRKWGDRGKLKIVWPPCQEMPKKNSPPEEEFKVNKAKWPPEVTIPVPSDFKRESLTEHVKTLESQGQEQDSVPDLQPCKHVCQKEDITGIKEIKGYEERKDEKEAKDTLKDAEGLRSKRKSGMEFNDHNAHAQSDGKEKNALVNEADSADVLQVANTDDEGGPENHRENFNNNNNNSVAVSSLNNGRQKISISERPRLLQAVSEANYYTSEYQIKNFNNASKISELLGIFESQKLSSKKVLALALERTADRGTAGSPLQLVLEPGLQQGFSVKGENLAASPDVSPLHIKGNHENNKNVHLFFSNTVKITSFSKKHNILGCDLMDSVDQLKNMSCLYLRELGKNVKCWHGETAGAARHGGKMCFDAQSQGSAAKPVFPSMQCQAQHLTVEEQIKRDRCYSDSEAD |
| 2966 | sp|Q98SN7|WNT2B\_CHICK | MLSPNRLAASPGIAVAPGRAECGAFPRTAGAAPRICLPFVLILLALTPRADSSWWYIGALGARVICDNIPGLVNKQRQLCQRYPDIMQSVGEGAKEWIRECQYQFRHHRWNCSTLDRDHTVFGRVMLRSSREAAFVYAISSAGVVYAITRACSQGELKACGCDPLKRGRAKDERGEFDWGGCSDNINYGIRFAKAFVDAKEKKVKDARALMNLHNNRCGRMAVKRFLKLECKCHGVSGSCTLRTCWLAMSDFRKTGDYLQKKYNGAIQVIMNQDGTGFTVANKNFRKPTKTDLVYFENSPDYCVMDKSAGSLGTAGRVCNKVSRGTDGCEVMCCGRGYDTTRVTRVTKCECKFHWCCAVRCKECEDTVDVHTCKAPKRAEWLDQT |
| 2967 | sp|O22775|XXT2\_ARATH | MIERCLGAYRCRRIQRALRQLKVTILCLLLTVVVLRSTIGAGKFGTPEQDLDEIRQHFHARKRGEPHRVLEEIQTGGDSSSGDGGGNSGGSNNYETFDINKIFVDEGEEEKPDPNKPYTLGPKISDWDEQRSDWLAKNPSFPNFIGPNKPRVLLVTGSAPKPCENPVGDHYLLKSIKNKIDYCRLHGIEIFYNMALLDAEMAGFWAKLPLIRKLLLSHPEIEFLWWMDSDAMFTDMAFELPWERYKDYNLVMHGWNEMVYDQKNWIGLNTGSFLLRNNQWALDLLDTWAPMGPKGKIREEAGKVLTRELKDRPVFEADDQSAMVYLLATQRDAWGNKVYLESGYYLHGYWGILVDRYEEMIENYHPGLGDHRWPLVTHFVGCKPCGKFGDYPVERCLKQMDRAFNFGDNQILQIYGFTHKSLASRKVKRVRNETSNPLEMKDELGLLHPAFKAVKVQTNQV |
| 2968 | sp|P70315|WASP\_MOUSE | MNSGPGPVGGRPGGRGGPAVQQNIPSNLLQDHENQRLFELLGRKCWTLATTVVQLYLALPPGAEHWTMEHCGAVCFVKDNPQKSYFIRLYGLQAGRLLWEQELYSQLVYLTPTPFFHTFAGDDCQVGLNFADESEAQAFRALVQEKIQKRNQRQSGERRQLPPPPAPINEERRGGLPPVPPHPGGDHGGPSGGPLSLGLVTVDIQNPDITSSRYRGLPAPGPGPTDKKRSGKKKISKADIGAPSGFKHVSHVGWDPQNGFDVNNLDPDLRSLFSRAGISEAQLTDAETSKLIYDFIEDQGGLEAVRQEMRRQEPLPPPPPPCRGGGGGGGGGGGGGGGGGGQPLRPPVVGSNKGRSGPLPPVPMGGAPPPPTPRGPPPPGRGGPPPPPPPATGRSGPPPPPLPGAGGPPAPPPPPPPPPPPPCPGSGPAPPPLPPTPVSGGSPAPGGGRGALLDQIRQGIQLNKTPGALENSVQQPPAQQSEGLVGALMHVMQKRSRVIHSSDEGEDQTGEDEEDDEWDD |
| 2969 | sp|P97765|WBP2\_MOUSE | MALNKNHSEGGGVIVNNTESILMSYDHVELTFNDMKNVPEAFKGTKKGTVYLTPYRVIFLSKGKDAMQSFMMPFYLMKDCEIKQPVFGANFIKGIVKAEAGGGWEGSASYKLTFTAGGAIEFGQRMLQVASQASRGEVPNGAYGYPYMPSGAYVFPPPVANGMYPCPPGYPYPPPPPEFYPGPPMMDGAMGYVQPPPPPYPGPMEPPVSGPSAPATPAAEAKAAEAAASAYYNPGNPHNVYMPTSQPPPPPYYPPEDKKTQ |
| 2970 | sp|Q9Y2W2|WBP11\_HUMAN | MGRRSTSSTKSGKFMNPTDQARKEARKRELKKNKKQRMMVRAAVLKMKDPKQIIRDMEKLDEMEFNPVQQPQLNEKVLKDKRKKLRETFERILRLYEKENPDIYKELRKLEVEYEQKRAQLSQYFDAVKNAQHVEVESIPLPDMPHAPSNILIQDIPLPGAQPPSILKKTSAYGPPTRAVSILPLLGHGVPRLPPGRKPPGPPPGPPPPQVVQMYGRKVGFALDLPPRRRDEDMLYSPELAQRGHDDDVSSTSEDDGYPEDMDQDKHDDSTDDSDTDKSDGESDGDEFVHRDNGERDNNEEKKSGLSVRFADMPGKSRKKKKNMKELTPLQAMMLRMAGQEIPEEGREVEEFSEDDDEDDSDDSEAEKQSQKQHKEESHSDGTSTASSQQQAPPQSVPPSQIQAPPMPGPPPLGPPPAPPLRPPGPPTGLPPGPPPGAPPFLRPPGMPGLRGPLPRLLPPGPPPGRPPGPPPGPPPGLPPGPPPRGPPPRLPPPAPPGIPPPRPGMMRPPLVPPLGPAPPGLFPPAPLPNPGVLSAPPNLIQRPKADDTSAATIEKKATATISAKPQITNPKAEITRFVPTALRVRRENKGATAAPQRKSEDDSAVPLAKAAPKSGPSVPVSVQTKDDVYEAFMKEMEGLL |
| 2971 | sp|Q9I8X1|VSPP\_DEIAC | MVLIRVLANLLILQLSYAQKSSELVIGGNECDINEHRFLVAFFNTTGFFCGGTLINPEWVVTAAHCDSTDFQMQLGVHSKKVLNEDEQTRNPKEKFICPNKNNNEVLDKDIMLIKLDKPISNSKHIAPLSLPSSPPSVGSVCRIMGWGSITPVKETFPDVPYCANINLLDHAVCQAGYPELLAEYRTLCAGIVQGGKDTCGGDSGGPLICNGQFQGIVSYGAHPCGQGPKPGIYTNVFDYTDWIQRNIAGNTDATCPP |
| 2972 | sp|Q5MNZ6|WIPI3\_HUMAN | MNLLPCNPHGNGLLYAGFNQDHGCFACGMENGFRVYNTDPLKEKEKQEFLEGGVGHVEMLFRCNYLALVGGGKKPKYPPNKVMIWDDLKKKTVIEIEFSTEVKAVKLRRDRIVVVLDSMIKVFTFTHNPHQLHVFETCYNPKGLCVLCPNSNNSLLAFPGTHTGHVQLVDLASTEKPPVDIPAHEGVLSCIALNLQGTRIATASEKGTLIRIFDTSSGHLIQELRRGSQAANIYCINFNQDASLICVSSDHGTVHIFAAEDPKRNKQSSLASASFLPKYFSSKWSFSKFQVPSGSPCICAFGTEPNAVIAICADGSYYKFLFNPKGECIRDVYAQFLEMTDDKL |
| 2973 | sp|Q95ST2|WLS\_DROME | MSGTILENLSGRKLSILVATLLLCQVLCFLLGGLYAPLPAGHVTVLGSLCREDHARQNDTSFLLYSRGAGACIPVTREEVEQDSTKMANELVHVFQMPLPRDLRDLDYSRWQQNLIGVLQVEFGYDSSSELREPPRELQLTIDMRLAYRNKGDPDNGWKLYAHGVEHRYLDCVTSHVGPTETLYSCDMIPLFELGALHHSFYLLNLRFPLDTPSQMNLQFGHMHDLTLTAIHQNGGFTQIWLLLKTMLFPFVVGIMIWFWRRVHLLQRSPALLEYMLIYLGAALTFLNLPLEYLSLVYEMPYMLLLSDIRQGIFYAMLLTFWLVFAGEHMLIQDAPNKSTIRSRYWKHLSAVVVGCISLFVFDICERGVQLRNPFYSIWTTPLGAKVAMTFIVLAGVSAAIYFLFLCYMIWKVFRNIGDKRTSLPSMSQARRLHYEVPLDQKVEDWAGIVYFYTKAFFFQLHKANESKGLIYRFKFLMLATLVCAALTVAGFIMGQMAEGQWDWNDNVAIQPTSAFLTGVYGMWNIYIFALLILYAPSHKQWPTMHHSDETTQSNENIVASAASEEIEFSHLPSDSNPSEISSLTSFTRKVAFD |
| 2974 | sp|Q7LHG5|YI31B\_YEAST | MSFMDQIPGGGNYPKLPVECLPNFPIQPSLTFRGRNDSHKLKNFISEIMLNMSMISWPNDASRIVYCRRHLLNPAAQWANDFVQEQGILEITFDTFIQGLYQHFYKPPDINKIFNAITQLSEAKLGIERLNQRFRKIWDRMPPDFMTEKAAIMTYTRLLTKETYNIVRMHKPETLKDAMEEAYQTTALTERFFPGFELDADGDTIIGATTHLQEEYDSDYDSEDNLTQNRYVHTVRTRRSYNKPMSNHRNRRNNNASREECIKNRLCFYCKKEGHRLNECRARKAVLTDLELESKDQQTLFIKTLPIVHYIAIPEMDNTAEKTIKIQNTKVKTLFDSGSPTSFIRRDIVELLKYEIYETPPLRFRGFVATKSAVTSEAVTIDLKINDLQITLAAYILDNMDYQLLIGNPILRRYPKILHTVLNTRESPDSLKPKTYRSETVNNVRTYSAGNRGNPRNIKLSFAPTILEATDPKSAGNRGNPRNTKLSLAPTILEATDPKSAGNRGDSRTKTLSLATTTPAAIDPLTTLDNPGSTQSTFAQFPIPEEASILEEDGKYSNVVSTIQSVEPNATDHSNKDTFCTLPVWLQQKYREIIRNDLPPRPADINNIPVKHDIEIKPGARLPRLQPYHVTEKNEQEINKIVQKLLDNKFIVPSKSPCSSPVVLVPKKDGTFRLCVDYRTLNKATISDPFPLPRIDNLLSRIGNAQIFTTLDLHSGYHQIPMEPKDRYKTAFVTPSGKYEYTVMPFGLVNAPSTFARYMADTFRDLRFVNVYLDDILIFSESPEEHWKHLDTVLERLKNENLIVKKKKCKFASEETEFLGYSIGIQKIAPLQHKCAAIRDFPTPKTVKQAQRFLGMINYYRRFIPNCSKIAQPIQLFICDKSQWTEKQDKAIEKLKAALCNSPVLVPFNNKANYRLTTDASKDGIGAVLEEVDNKNKLVGVVGYFSKSLESAQKNYPAGELELLGIIKALHHFRYMLHGKHFTLRTDHISLLSLQNKNEPARRVQRWLDDLATYDFTLEYLAGPKNVVADAISRAIYTITPETSRPIDTESWKSYYKSDPLCSAVLIHMKELTQHNVTPEDMSAFRSYQKKLELSETFRKNYSLEDEMIYYQDRLVVPIKQQNAVMRLYHDHTLFGGHFGVTVTLAKISPIYYWPKLQHSIIQYIRTCVQCQLIKSHRPRLHGLLQPLPIAEGRWLDISMDFVTGLPPTSNNLNMILVVVDRFSKRAHFIATRKTLDATQLIDLLFRYIFSYHGFPRTITSDRDVRMTADKYQELTKRLGIKSTMSSANHPQTDGQSERTIQTLNRLLRAYVSTNIQNWHVYLPQIEFVYNSTPTRTLGKSPFEIDLGYLPNTPAIKSDDEVNARSFTAVELAKHLKALTIQTKEQLEHAQIEMETNNNQRRKPLLLNIGDHVLVHRDAYFKKGAYMKVQQIYVGPFRVVKKINDNAYELDLNSHKKKHRVINVQFLKSLYTVQTRTQRINQSAPLRELREHTKLLHS |
| 2975 | sp|Q9BWQ6|YIPF2\_HUMAN | MASADELTFHEFEEATNLLADTPDAATTSRSDQLTPQGHVAVAVGSGGSYGAEDEVEEESDKAALLQEQQQQQQPGFWTFSYYQSFFDVDTSQVLDRIKGSLLPRPGHNFVRHHLRNRPDLYGPFWICATLAFVLAVTGNLTLVLAQRRDPSIHYSPQFHKVTVAGISIYCYAWLVPLALWGFLRWRKGVQERMGPYTFLETVCIYGYSLFVFIPMVVLWLIPVPWLQWLFGALALGLSAAGLVFTLWPVVREDTRLVATVLLSVVVLLHALLAMGCKLYFFQSLPPENVAPPPQITSLPSNIALSPTLPQSLAPS |
| 2976 | sp|Q8IWU4|ZNT8\_HUMAN | MEFLERTYLVNDKAAKMYAFTLESVELQQKPVNKDQCPRERPEELESGGMYHCHSGSKPTEKGANEYAYAKWKLCSASAICFIFMIAEVVGGHIAGSLAVVTDAAHLLIDLTSFLLSLFSLWLSSKPPSKRLTFGWHRAEILGALLSILCIWVVTGVLVYLACERLLYPDYQIQATVMIIVSSCAVAANIVLTVVLHQRCLGHNHKEVQANASVRAAFVHALGDLFQSISVLISALIIYFKPEYKIADPICTFIFSILVLASTITILKDFSILLMEGVPKSLNYSGVKELILAVDGVLSVHSLHIWSLTMNQVILSAHVATAASRDSQVVRREIAKALSKSFTMHSLTIQMESPVDQDPDCLFCEDPCD |
| 2977 | sp|Q07157|ZO1\_HUMAN | MSARAAAAKSTAMEETAIWEQHTVTLHRAPGFGFGIAISGGRDNPHFQSGETSIVISDVLKGGPAEGQLQENDRVAMVNGVSMDNVEHAFAVQQLRKSGKNAKITIRRKKKVQIPVSRPDPEPVSDNEEDSYDEEIHDPRSGRSGVVNRRSEKIWPRDRSASRERSLSPRSDRRSVASSQPAKPTKVTLVKSRKNEEYGLRLASHIFVKEISQDSLAARDGNIQEGDVVLKINGTVTENMSLTDAKTLIERSKGKLKMVVQRDERATLLNVPDLSDSIHSANASERDDISEIQSLASDHSGRSHDRPPRRSRSRSPDQRSEPSDHSRHSPQQPSNGSLRSRDEERISKPGAVSTPVKHADDHTPKTVEEVTVERNEKQTPSLPEPKPVYAQVGQPDVDLPVSPSDGVLPNSTHEDGILRPSMKLVKFRKGDSVGLRLAGGNDVGIFVAGVLEDSPAAKEGLEEGDQILRVNNVDFTNIIREEAVLFLLDLPKGEEVTILAQKKKDVYRRIVESDVGDSFYIRTHFEYEKESPYGLSFNKGEVFRVVDTLYNGKLGSWLAIRIGKNHKEVERGIIPNKNRAEQLASVQYTLPKTAGGDRADFWRFRGLRSSKRNLRKSREDLSAQPVQTKFPAYERVVLREAGFLRPVTIFGPIADVAREKLAREEPDIYQIAKSEPRDAGTDQRSSGIIRLHTIKQIIDQDKHALLDVTPNAVDRLNYAQWYPIVVFLNPDSKQGVKTMRMRLCPESRKSARKLYERSHKLRKNNHHLFTTTINLNSMNDGWYGALKEAIQQQQNQLVWVSEGKADGATSDDLDLHDDRLSYLSAPGSEYSMYSTDSRHTSDYEDTDTEGGAYTDQELDETLNDEVGTPPESAITRSSEPVREDSSGMHHENQTYPPYSPQAQPQPIHRIDSPGFKPASQQKAEASSPVPYLSPETNPASSTSAVNHNVNLTNVRLEEPTPAPSTSYSPQADSLRTPSTEAAHIMLRDQEPSLSSHVDPTKVYRKDPYPEEMMRQNHVLKQPAVSHPGHRPDKEPNLTYEPQLPYVEKQASRDLEQPTYRYESSSYTDQFSRNYEHRLRYEDRVPMYEEQWSYYDDKQPYPSRPPFDNQHSQDLDSRQHPEESSERGYFPRFEEPAPLSYDSRPRYEQAPRASALRHEEQPAPGYDTHGRLRPEAQPHPSAGPKPAESKQYFEQYSRSYEQVPPQGFTSRAGHFEPLHGAAAVPPLIPSSQHKPEALPSNTKPLPPPPTQTEEEEDPAMKPQSVLTRVKMFENKRSASLETKKDVNDTGSFKPPEVASKPSGAPIIGPKPTSQNQFSEHDKTLYRIPEPQKPQLKPPEDIVRSNHYDPEEDEEYYRKQLSYFDRRSFENKPPAHIAASHLSEPAKPAHSQNQSNFSSYSSKGKPPEADGVDRSFGEKRYEPIQATPPPPPLPSQYAQPSQPVTSASLHIHSKGAHGEGNSVSLDFQNSLVSKPDPPPSQNKPATFRPPNREDTAQAAFYPQKSFPDKAPVNGTEQTQKTVTPAYNRFTPKPYTSSARPFERKFESPKFNHNLLPSETAHKPDLSSKTPTSPKTLVKSHSLAQPPEFDSGVETFSIHAEKPKYQINNISTVPKAIPVSPSAVEEDEDEDGHTVVATARGIFNSNGGVLSSIETGVSIIIPQGAIPEGVEQEIYFKVCRDNSILPPLDKEKGETLLSPLVMCGPHGLKFLKPVELRLPHCDPKTWQNKCLPGDPNYLVGANCVSVLIDHF |
| 2978 | sp|P53786|ZP3\_CALSQ | MELSYRLFICLLLWGSTELCYPQPLRLLQGGTSHPETALQPVVVECQEATLVVTVSKDLFGTRKLIRAVDLTLGPEGCEPLVSTDTEDVVRFEVGLHECGNSMQVTDDALVYSTFLLHDPRPVGNLSIVRTNRAEIPIECRYPRRGNVSSQAILPTWLPFRTTVFSEEKLTFSLRLMEENWSTEKRTPTFHLGDVAHLQAEIHTGSHVPLRLFVDHCVATPTPDQNASPYHTIVDFHGCLVDGLTDASSAFQAPRPRPDTLQFTVDVFHFANDSRNMIYITCHLKVTLAEQDPDELNKACSFSKASNSWFPVEGPADICQCCSKGDCGTPSHARRQPHVVSLGSGSPARDRRHVTEEADVTVGPLIFLDRTGDHEMEQWALPADTSLLLLGTGLAVVALLTLTAVILVLTRRCRTASLPVSASE |
| 2979 | sp|Q6NUN9|ZN746\_HUMAN | MAEAVAAPISPWTMAATIQAMERKIESQAARLLSLEGRTGMAEKKLADCEKTAVEFGNQLEGKWAVLGTLLQEYGLLQRRLENVENLLRNRNFWILRLPPGSKGESPKEWGKLEDWQKELYKHVMRGNYETLVSLDYAISKPEVLSQIEQGKEPCNWRRPGPKIPDVPVDPSPGSGPPVPAPDLLMQIKQEGELQLQEQQALGVEAWAAGQPDIGEEPWGLSQLDSGAGDISTDATSGVHSNFSTTIPPTSWQTDLPPHHPSSACSDGTLKLNTAASTEDVKIVIKTEVQEEEVVATPVHPTDLEAHGTLFGPGQATRFFPSPAQEGAWESQGSSFPSQDPVLGLREPARPERDMGELSPAVAQEETPPGDWLFGGVRWGWNFRCKPPVGLNPRTGPEGLPYSSPDNGEAILDPSQAPRPFNEPCKYPGRTKGFGHKPGLKKHPAAPPGGRPFTCATCGKSFQLQVSLSAHQRSCGAPDGSGPGTGGGGSGSGGGGGGSGGGSARDGSALRCGECGRCFTRPAHLIRHRMLHTGERPFPCTECEKRFTERSKLIDHYRTHTGVRPFTCTVCGKSFIRKDHLRKHQRNHAAGAKTPARGQPLPTPPAPPDPFKSPASKGPLASTDLVTDWTCGLSVLGPTDGGDM |
| 2980 | sp|A8K8V0|ZN785\_HUMAN | MGPPLAPRPAHVPGEAGPRRTRESRPGAVSFADVAVYFSPEEWECLRPAQRALYRDVMRETFGHLGALGFSVPKPAFISWVEGEVEAWSPEAQDPDGESSAAFSRGQGQEAGSRDGNEEKERLKKCPKQKEVAHEVAVKEWWPSVACPEFCNPRQSPMNPWLKDTLTRRLPHSCPDCGRNFSYPSLLASHQRVHSGERPFSCGQCQARFSQRRYLLQHQFIHTGEKPYPCPDCGRRFRQRGSLAIHRRAHTGEKPYACSDCKSRFTYPYLLAIHQRKHTGEKPYSCPDCSLRFAYTSLLAIHRRIHTGEKPYPCPDCGRRFTYSSLLLSHRRIHSDSRPFPCVECGKGFKRKTALEAHRWIHRSCSERRAWQQAVVGRSEPIPVLGGKDPPVHFRHFPDIFQECG |
| 2981 | sp|P17024|ZNF20\_HUMAN | MMFQDSVAFEDVAVSFTQEEWALLDPSQKNLYRDVMQETFKNLTSVGKTWKVQNIEDEYKNPRRNLSLMREKLCESKESHHCGESFNQIADDMLNRKTLPGITPCESSVCGEVGTGHSSLNTHIRADTGHKSSEYQEYGENPYRNKECKKAFSYLDSFQSHDKACTKEKPYDGKECTETFISHSCIQRHRVMHSGDGPYKCKFCGKAFYFLNLCLIHERIHTGVKPYKCKQCGKAFTRSTTLPVHERTHTGVNADECKECGNAFSFPSEIRRHKRSHTGEKPYECKQCGKVFISFSSIQYHKMTHTGEKPYECKQCGKAFRCGSHLQKHGRTHTGEKPYECRQCGKAFRCTSDLQRHEKTHTEDKPYGCKQCGKGFRCASQLQIHERTHSGEKPHECKECGKVFKYFSSLRIHERTHTGEKPHECKQCGKAFRYFSSLHIHERTHTGDKPYECKVCGKAFTCSSSIRYHERTHTGEKPYECKHCGKAFISNYIRYHERTHTGEKPYQCKQCGKAFIRASSCREHERTHTINR |
| 2982 | sp|P17036|ZNF3\_HUMAN | METQADLVSQEPQALLDSALPSKVPAFSDKDSLGDEMLAAALLKAKSQELVTFEDVAVYFIRKEWKRLEPAQRDLYRDVMLENYGNVFSLDRETRTENDQEISEDTRSHGVLLGRFQKDISQGLKFKEAYEREVSLKRPLGNSPGERLNRKMPDFGQVTVEEKLTPRGERSEKYNDFGNSFTVNSNLISHQRLPVGDRPHKCDECSKSFNRTSDLIQHQRIHTGEKPYECNECGKAFSQSSHLIQHQRIHTGEKPYECSDCGKTFSCSSALILHRRIHTGEKPYECNECGKTFSWSSTLTHHQRIHTGEKPYACNECGKAFSRSSTLIHHQRIHTGEKPYECNECGKAFSQSSHLYQHQRIHTGEKPYECMECGGKFTYSSGLIQHQRIHTGENPYECSECGKAFRYSSALVRHQRIHTGEKPLNGIGMSKSSLRVTTELNIREST |
| 2983 | sp|Q68DK2|ZFY26\_HUMAN | MNHPFGKEEAASQKQLFGFFCECLRRGEWELAQACVPQLQEGQGDIPKRVEDILQALVVCPNLLRCGQDINPQRVAWVWLLVLEKWLAREKKLLPVVFRRKLEFLLLSEDLQGDIPENILEELYETLTQGAVGHVPDGNPRRESWTPRLSSEAVSVLWDLLRQSPQPAQALLELLLEEDDGTGLCHWPLQNALVDLIRKALRALQGPDSVPPGVVDAIYGALRTLRCPAEPLGVELHLLCEELLEACRTEGSPLREERLLSCLLHKASRGLLSLYGHTYAEKVTEKPPRATASGKVSPDHLDPERAMLALFSNPNPAEAWKVAYFYCLSNNKHFLEQILVTALTLLKEEDFPNLGCLLDREFRPLSCLLVLLGWTHCQSLESAKRLLQTLHRTQGPGCDELLRDACDGLWAHLEVLEWCIQQSSNPIPKRDLLYHLHGGDSHSVLYTLHHLTNLPALREEDVLKLLQKVPAKDPQQEPDAVDAPVPEHLSQCQNLTLYQGFCAMKYAIYALCVNSHQHSQCQDCKDSLSEDLASATEPANDSLSSPGAANLFSTYLARCQQYLCSIPDSLCLELLENIFSLLLITSADLHPEPHLPEDYAEDDDIEGKSPSGLRSPSESPQHIAHPERKSERGSLGVPKTLAYTMPSHVKAEPKDSYPGPHRHSFLDLKHFTSGISGFLADEFAIGAFLRLLQEQLDEISSRSPPEKPKQESQSCSGSRDGLQSRLHRLSKVVSEAQWRHKVVTSNHRSEEQPSRRYQPATRHPSLRRGRRTRRSQADGRDRGSNPSLESTSSELSTSTSEGSLSAMSGRNELHSRLHPHPQSSLIPMMFSPPESLLASCILRGNFAEAHQVLFTFNLKSSPSSGELMFMERYQEVIQELAQVEHKIENQNSDAGSSTIRRTGSGRSTLQAIGSAAAAGMVFYSISDVTDKLLNTSGDPIPMLQEDFWISTALVEPTAPLREVLEDLSPPAMAAFDLACSQCQLWKTCKQLLETAERRLNSSLERRGRRIDHVLLNADGIRGFPVVLQQISKSLNYLLMSASQTKSESVEEKGGGPPRCSITELLQMCWPSLSEDCVASHTTLSQQLDQVLQSLREALELPEPRTPPLSSLVEQAAQKAPEAEAHPVQIQTQLLQKNLGKQTPSGSRQMDYLGTFFSYCSTLAAVLLQSLSSEPDHVEVKVGNPFVLLQQSSSQLVSHLLFERQVPPERLAALLAQENLSLSVPQVIVSCCCEPLALCSSRQSQQTSSLLTRLGTLAQLHASHCLDDLPLSTPSSPRTTENPTLERKPYSSPRDSSLPALTSSALAFLKSRSKLLATVACLGASPRLKVSKPSLSWKELRGRREVPLAAEQVARECERLLEQFPLFEAFLLAAWEPLRGSLQQGQSLAVNLCGWASLSTVLLGLHSPIALDVLSEAFEESLVARDWSRALQLTEVYGRDVDDLSSIKDAVLSCAVACDKEGWQYLFPVKDASLRSRLALQFVDRWPLESCLEILAYCISDTAVQEGLKCELQRKLAELQVYQKILGLQSPPVWCDWQTLRSCCVEDPSTVMNMILEAQEYELCEEWGCLYPIPREHLISLHQKHLLHLLERRDHDKALQLLRRIPDPTMCLEVTEQSLDQHTSLATSHFLANYLTTHFYGQLTAVRHREIQALYVGSKILLTLPEQHRASYSHLSSNPLFMLEQLLMNMKVDWATVAVQTLQQLLVGQEIGFTMDEVDSLLSRYAEKALDFPYPQREKRSDSVIHLQEIVHQAADPETLPRSPSAEFSPAAPPGISSIHSPSLRERSFPPTQPSQEFVPPATPPARHQWVPDETESICMVCCREHFTMFNRRHHCRRCGRLVCSSCSTKKMVVEGCRENPARVCDQCYSYCNKDVPEEPSEKPEALDSSKSESPPYSFVVRVPKADEVEWILDLKEEENELVRSEFYYEQAPSASLCIAILNLHRDSIACGHQLIEHCCRLSKGLTNPEVDAGLLTDIMKQLLFSAKMMFVKAGQSQDLALCDSYISKVDVLNILVAAAYRHVPSLDQILQPAAVTRLRNQLLEAEYYQLGVEVSTKTGLDTTGAWHAWGMACLKAGNLTAAREKFSRCLKPPFDLNQLNHGSRLVQDVVEYLESTVRPFVSLQDDDYFATLRELEATLRTQSLSLAVIPEGKIMNNTYYQECLFYLHNYSTNLAIISFYVRHSCLREALLHLLNKESPPEVFIEGIFQPSYKSGKLHTLENLLESIDPTLESWGKYLIAACQHLQKKNYYHILYELQQFMKDQVRAAMTCIRFFSHKAKSYTELGEKLSWLLKAKDHLKIYLQETSRSSGRKKTTFFRKKMTAADVSRHMNTLQLQMEVTRFLHRCESAGTSQITTLPLPTLFGNNHMKMDVACKVMLGGKNVEDGFGIAFRVLQDFQLDAAMTYCRAARQLVEKEKYSEIQQLLKCVSESGMAAKSDGDTILLNCLEAFKRIPPQELEGLIQAIHNDDNKVRAYLICCKLRSAYLIAVKQEHSRATALVQQVQQAAKSSGDAVVQDICAQWLLTSHPRGAHGPGSRK |
| 2984 | sp|P17020|ZNF16\_HUMAN | MPSLRTRREEAEMELSVPGPSPWTPAAQARVRDAPAVTHPGSAACGTPCCSDTELEAICPHYQQPDCDTRTEDKEFLHKEDIHEDLESQAEISENYAGDVSQVPELGDLCDDVSERDWGVPEGRRLPQSLSQEGDFTPAAMGLLRGPLGEKDLDCNGFDSRFSLSPNLMACQEIPTEERPHPYDMGGQSFQHSVDLTGHEGVPTAESPLICNECGKTFQGNPDLIQRQIVHTGEASFMCDDCGKTFSQNSVLKNRHRSHMSEKAYQCSECGKAFRGHSDFSRHQSHHSSERPYMCNECGKAFSQNSSLKKHQKSHMSEKPYECNECGKAFRRSSNLIQHQRIHSGEKPYVCSECGKAFRRSSNLIKHHRTHTGEKPFECGECGKAFSQSAHLRKHQRVHTGEKPYECNDCGKPFSRVSNLIKHHRVHTGEKPYKCSDCGKAFSQSSSLIQHRRIHTGEKPHVCNVCGKAFSYSSVLRKHQIIHTGEKPYRCSVCGKAFSHSSALIQHQGVHTGDKPYACHECGKTFGRSSNLILHQRVHTGEKPYECTECGKTFSQSSTLIQHQRIHNGLKPHECNQCGKAFNRSSNLIHHQKVHTGEKPYTCVECGKGFSQSSHLIQHQIIHTGERPYKCSECGKAFSQRSVLIQHQRIHTGVKPYDCAACGKAFSQRSKLIKHQLIHTRE |
| 2985 | sp|Q9HBF4|ZFYV1\_HUMAN | MSAQTSPAEKGLNPGLMCQESYACSGTDEAIFECDECCSLQCLRCEEELHRQERLRNHERIRLKPGHVPYCDLCKGLSGHLPGVRQRAIVRCQTCKINLCLECQKRTHSGGNKRRHPVTVYNVSNLQESLEAEEMDEETKRKKMTEKVVSFLLVDENEEIQVTNEEDFIRKLDCKPDQHLKVVSIFGNTGDGKSHTLNHTFFYGREVFKTSPTQESCTVGVWAAYDPVHKVAVIDTEGLLGATVNLSQRTRLLLKVLAISDLVIYRTHADRLHNDLFKFLGDASEAYLKHFTKELKATTARCGLDVPLSTLGPAVIIFHETVHTQLLGSDHPSEVPEKLIQDRFRKLGRFPEAFSSIHYKGTRTYNPPTDFSGLRRALEQLLENNTTRSPRHPGVIFKALKALSDRFSGEIPDDQMAHSSFFPDEYFTCSSLCLSCGVGCKKSMNHGKEGVPHEAKSRCRYSHQYDNRVYTCKACYERGEEVSVVPKTSASTDSPWMGLAKYAWSGYVIECPNCGVVYRSRQYWFGNQDPVDTVVRTEIVHVWPGTDGFLKDNNNAAQRLLDGMNFMAQSVSELSLGPTKAVTSWLTDQIAPAYWRPNSQILSCNKCATSFKDNDTKHHCRACGEGFCDSCSSKTRPVPERGWGPAPVRVCDNCYEARNVQLAVTEAQVDDEGGTLIARKVGEAVQNTLGAVVTAIDIPLGLVKDAARPAYWVPDHEILHCHNCRKEFSIKLSKHHCRACGQGFCDECSHDRRAVPSRGWDHPVRVCFNCNKKPGDL |
| 2986 | sp|Q96SQ5|ZN587\_HUMAN | MAAAVPRRPTQQGTVTFEDVAVNFSQEEWCLLSEAQRCLYRDVMLENLALISSLGCWCGSKDEEAPCKQRISVQRESQSRTPRAGVSPKKAHPCEMCGLILEDVFHFADHQETHHKQKLNRSGACGKNLDDTAYLHQHQKQHIGEKFYRKSVREASFVKKRKLRVSQEPFVFREFGKDVLPSSGLCQEEAAVEKTDSETMHGPPFQEGKTNYSCGKRTKAFSTKHSVIPHQKLFTRDGCYVCSDCGKSFSRYVSFSNHQRDHTAKGPYDCGECGKSYSRKSSLIQHQRVHTGQTAYPCEECGKSFSQKGSLISHQLVHTGEGPYECRECGKSFGQKGNLIQHQQGHTGERAYHCGECGKSFRQKFCFINHQRVHTGERPYKCGECGKSFGQKGNLVHHQRGHTGERPYECKECGKSFRYRSHLTEHQRLHTGERPYNCRECGKLFNRKYHLLVHERVHTGERPYACEVCGKLFGNKHSVTIHQRIHTGERPYECSECGKSFLSSSALHVHKRVHSGQKPYKCSECGKSFSECSSLIKHRRIHTGERPYECTKCGKTFQRSSTLLHHQSSHRRKAL |
| 2987 | sp|Q64321|ZBT7B\_MOUSE | MGSPEDDLIGIPFPDHSSELLSCLNEQRQLGHLCDLTIRTQGLEYRTHRAVLAACSHYFKKLFTEGGGGTVMGTGGGGTASGGAGAGVCELDFVGPEALGALLEFAYTATLTTSSANMPAVLQAARLLEIPCVIAACMEILQGSGLEAPSPDEDDCERARQYLEAFATATTTASTSGMPNGEDSPPQVPLLPPPPPPPRPVARRSRKPRKAFLQTKGARANHLVPEAPTVLTHPLTYEEEEMVGRLGNSGGSGLGDSYSPPTGAASPAEGPLNYEVFEGEEEEEEMAYPPGYGLAQSNEPSLSPEELGSDEDPIDPDLMAYLSSLHQDALTPGLDGQDKLVRKRRSQMPQECPVCHKIIHGAGKLPRHMRTHTGEKPFACEVCGVRFTRNDKLKIHMRKHTGERPYSCPHCPARFLHSYDLKNHMHLHTGDRPYECHLCHKAFAKEDHLQRHLKGQNCLEVRTRRRRKDDVAAPHYPPPSTTTSSPAGLDLSNGHLDTFHLSLARFWEQSATTGPPVTTQGPPEEEEEEGTPTTPQAEGAMESS |
| 2988 | sp|A2A884|ZEP3\_MOUSE | MDPDQSIKGTKKADGSPRKRLTKGEAIQTSVSSSAPYPGSGTTAPSESATQELLATQPFSGPSQEKTGQQQKPARRPSIEASVHISQLPQHPLTPAFMSPGKPEHLLEGSTWQLVDPMRPGPSGSFVAPGLHPQSQLLPSHASILPPEELPGIPKVFVPRPSQVSLKPAEEAHKKERKPQKPGKYICQYCSRPCAKPSVLQKHIRSHTGERPYPCGPCGFSFKTKSNLYKHRKSHAHRIKAGLASGSSSEMYPPGLEMERIPGEEFEEPTEGESTDSEEETGAASGPSTDVLPKPKHPLLSSSLYSSGSHGSSQERCSLSQSSTGPSLEDPAPFAEASSEHPLSHKPEDTHTIKQKLALRLSERKKLIEEQTFLSPGSKGSTESGYFSRSESAEQQVSPPNTNAKSYAEIIFGKCGRIGQRTSMLASTSTQPLLPLSSEDKPSLVPLSVPRTQVIEHITKLITINEAVVDTSEIDSVKPRRSSLTRRSSVESPKSSLYRDSLSSHGEKTKQEQSLLSLQHPPSSTHPVPLLRSHSMPSAACTISTHHHTFRGSYSFDDHVADPEVPSRNTPVFTSHPRMLKRQPAIELPLGGEYSSEEPGPSSKDPTSKPSDEPEPKESDLTKKTKKGFKTKGANYECTICGARYKKRDNYEAHKKYYCSELQITKAHSVGAHEVEKTQAEPEPWSQMMHYKLGATLELTPLRKRRKEKSLGDEEEPPAFGSPGPSETAHNRPLGSTKSPAEASKSAPSLEGPTSFQPRTPKPGAGSEPGKERRTMSKEISVIQHTSSFEKSDPPEQPSGLEEDKPPAQFSSPPPAPHGRSAHSLQPRLVRQPNIQVPEILVTEEPDRPDTEPEPPPKEPEKTEEFQWPQRSQTLAQLPAEKLPPKKKRLRLAEMAQSSGESSFESSVPLSRSPSQESSISLSGSSRSASFDREDHGKAEAPGPFSDTRSKTLGSHMLTVPSHHPHAREMRRSASEQSPNVPHSSHMTETRSKSFDYGSLSPTGPSLAVPAAPPPPAAPPERRKCFLVRQASLNRPPEAELEAVPKGKQESSEEPAASKPSTKSSVPQISVGTTQGGPSGGKSQMQDRPPLGSSPPYTEALQVFQPLGTQLPPPASLFSLQQLLPQEQEQSSEFFPTQAMAGLLSSPYSMPPLPPSLFQAPPLPLQPTVLHPSQLHLPQLLPHAADIPFQQPPSFLPMPCPAPSTLSGYFLPLQSQFALQLPGEIESHLPPVKTSLPPLATGPPGPSSSTEYSSDIQLPPVTPQATSPAPTSAPPLALPACPDAMVSLVVPVRIQTHMPSYGSAMYTTLSQILVTQSPGSPASTALTKYEEPSSKSMTVCEADVYEAEPGPSSISKEQNRGYQTPYLRVPERKGTSLSSEGILSLEGCSSTASGSKRVLSPAGSLELTMETQQQKRVKEEEASKADEKLELVSTCSVVLTSTEDRKKTEKPHVGGQGRSRREAETLSSLSSDVSDPKELSPLSHSTLSHGTAPGSEALKEYAQPSSKAHRRGLPPMSVKKEDPKEQTDLPPLAPPSSLPLSDTSPKPAKLQEGTDSKKVLQFPSLHTTTNVSWCYLNYIKPNHIQHADRRSSVYAGWCISLYNPNLPGVSTKAALSLLRSKQKVSKETYTMATAPHPEAGRLVPSNSRKPRMTEVHLPSLVSPESQKDPARVEKEEKQGKAEEGTPTSKRGEPARVKIFEGGYKSNEEYIYVRGRGRGRYVCEECGIRCKKPSMLKKHIRTHTDVRPYVCKHCHFAFKTKGNLTKHMKSKAHSKKCQETGVLEELEAEEGTSDDLHQDSEGQEGAEAVEEHQFSDLEDSDSDSDLDEDEEEEEEEEESQDELSGPCSEAAPPCLPPTLQENSSPVEGPQAPDSTSDEVPQGSSISEATHLTASSCSTPSRGTQGLPRLGLAPLEKDMSSAPSPKATSPRRPWSPSKEAGSRPSLTRKHSLTKNDSSPQQCSPAREAQASVTSTPGPQMGPGRDLGPHLCGSPRLELSCLTPYPIGREAPAGLERATDTGTPRYSPTRRWSLGQAESPPQTVLPGKWALAGPCSPSADKSGLGLGPVPRALLQPVPLPHTLLSRSPETCTSAWRKTESRSPSAGPAPLFPRPFSAPHDFHGHLPSRSEENLFSHLPLHSQLLSRAPCPLIPIGGIQMVQARPGAQPTVLPGPCAAWVSGFSGGGSDLTGAREAQERSRWSPTESPSASVSPVAKVSKFTLSSELEEERTGRGPGRPPDWEPHRAEAPPGPMGTHSPCSPQLPQGHQVAPSWRGLLGSPHTLANLKASSFPPLDRSSSMDCLAETSTYSPPRSRNLSGEPRTRQGSPELLGRGELRTPLFLPKGSGPPSI |
| 2989 | sp|Q8C0C0|ZHX2\_MOUSE | MASKRKSTTPCMVRTSQVLEQDMLEEADRAKDKGAGMPQSDVTKDSWAAEPEHSSKETEVVEVKSMGENLSKKLQGGYECKYCPYSTQNLNEFTEHVDMQHPNVILNPLYVCAECNFTTKKYDSLSDHNSKFHPGETNFKLKLIKRNNQTVLEQSIEATNHVVPITASGPGSSDNDPGVSVGKTPMTKTGKLKADAKKVPKKPDEAAPENHMEGTARLVTDTAEILARLGSVELLQDSLGHVMPSVQLPPNINLVPKVPVPLNTTKYNSALDTNATMINSFNKFPYPTQAELSWLTAASKHPEEHIRIWFATQRLKHGISWSPEEVEEARKKMFNGTIQSVPPTITVLPAQLTPTKVSQPILQTALPCQILGQPSLVLTQVTSGSTTVSCSPITLAVAGVTNHGQKRPLVTPQAAPEPKRPHIAQVPEPPPKVANTPLTPASDRKKTKLQIAHLKASFLQSQFPDDAEVYRLIEVTGLARSEIKKWFSDHRYRCQRGIVHITSESLAKDQMAITGTRHGRTYHVYPDFAPQKFKEKSQGQLKTLEDSFLKSSFPTQAEVERLRVETKLSRREIDSWFSERRKLRDSMEQAVLDSMGSGKKGSDAVAPNGALSRLDQLSGAQLAGSLPSPSSAIVQNQEQVHLLRSTFARTQWPTPQEYDQLAAKTGLVRTEIVRWFKENRCLLKTGTLSWLEQYQRHHMSDDRGRDAVSRKVAKQVAESPKNGSEAAHQYAKDPKALSEEDSEKLVPRMKVGGDPTKDCLAGKPSEATSDRSEGSRDGQGSEENEESGIVDFVEVTVGEEDAISEKWGSWSRRVAEGTVERADSDSDSTPAEAGQA |
| 2990 | sp|Q9R210|TFEB\_MOUSE | MASRIGLRMQLMREQAQQEEQRERMQQQAVMHYMQQQQQQQQQLGGPPTPAINTPVHFQSPPPVPGEVLKVQSYLENPTSYHLQQSQHQKVREYLSETYGNKFAAHVSPAQGSPKPAPAASPGVRAGHVLSTSAGNSAPNSPMAMLHISSNPEKEFDDVIDNIMRLDSVLGYINPEMQMPNTLPLSSSHLNVYSGDPQVTASMVGVTSSSCPADLTQKRELTDAESRALAKERQKKDNHNLIERRRRFNINDRIKELGMLIPKANDLDVRWNKGTILKASVDYIRRMQKDLQKSRELENHSRRLEMTNKQLWLRIQELEMQARVHGLPTTSPSGVNMAELAQQVVKQELPSEDGPGEALMLGPEVPEPEQMPALPPQAPLPSAAQPQSPFHHLDFSHGLSFGGGGDEGPTGYPDTLGTEHGSPFPNLSKKDLDLMLLDDSLLPLASDPLFSTMSPEASKASSRRSSFSMEEGDVL |
| 2991 | sp|Q9I7U4|TITIN\_DROME | MQRQNPNPYQQQNQQHQQVQQFSSQEYSHSSQEQHQEQRISRTEQHVQRSQVTTQRQVQQHHGGSIGGAYVPPSLTHVYAQGDISPPVFEQIFKNARFAQGGNALFEGRLRGNPKPFVTWTRKGAPLLESQKFRMSYNEATGDVSLLINQIGPGDEGEYTCTARNQYGEAICSVYIQPEGAPMPALQPIQNLEKNIYSNGYSYTSIEEEFRVDTFEYRLLREVSFREAITRRSGYEQDSQLSQELDRNQGPAQAPQISQKPRSSKLIEGSDAVFTARVGSNPKPRLTWFHNGQRLVASQKYEISYSSGVATLRVKNATARDGGHYTLLAENLQGCVVSSAVLAVEPAAETAYEPKPVDVMAEQLEAGKALPPAFVKAFGDREITEGRMTRFDCRVTGNPYPEVFWLINGRQVRDDASHKILVNESGSHSLMITNVTRLDAGAVQCLARNKAGEVAIEAQLNVLEKEQVVAPQFVQRFSTMTVREGEPITMSANAIGTPQPRITWQKDGVQISSTAERFVGIDGGATCLEIPRVTANDAGWYQCTAQNIAGSTANRARLYVEVPREQPNYEQRRLNLPRPTKVIEPEPIPGPEIIYLRHVERAKPHLRPGEEDRVYPPPQFIIPLQNVQQTEGGRVHMEARIEPVGDPTMVVEWYLNGRPLAASARATSVFKFGFIALDLLSIMGHDSGEYMCRVTNASGVAESRAILSVVQRPSIEQSSQNPNSLQYINQLEDYSRYQRTESIDEQLNQAPQFIRPLRDLGEFEEGKNVHFEAQVTPVNDPSMRVEWYKDGLPITASSRITAIFNFGYVSLNILHLRAEDAGTYTVRAVNRIGEAISQSSIRVHSRSQVTADLGIPEQQRYIEKVEELEDYRKSQQRRHVQEAAEAIAPPQFKTPIQNQLDLREHAHAHFEARLEPVGDSTMRVEWLKDGQPLEASSRITTYHNFGYVALTIKQLTIYDAGTYTCRAYNAMGQDTTVAQLTVISKNEIVSESQHPGGLQKIQHLEDSSRYGRREEEETYITQAPRFLGPLKGTTKILEGQRAHFEARVEPQSDLGLVIEWYHNGRSITAANRIQTYYDFGYVALDISQVRAEDAGVYLVVARNKLGEAQQQATMIVETRSSIDTSSMHRGLYEKTQNLENKPFVEPQYDIEEISKSKPVFVTPLSDPKPIHDGKNIHLECRLEPMGDPTMRVEWFHNGRPVTVGSRFRTYYDFGFVALDIIKATAADSGEYTVRATNHLGTAHTSACVRVIDHTDVVTETQNEQSLEQIQLLEDSRRRHHQEEDITIMQAPQFTRGLHNIETIEGTNVHLECRLQPVGDPSMRIEWFVNGKPVKTGHRFRPAYEFDYVALDLLGCYAIDSGVYTCQARNQLGEAVTSCSVRIIAKNDLILETQNESGLQKIQYLEDSTRHRRSEFVDEVVNIRPRFLTHPKSLTNTREGGHAHFECKIEPVTDPNLKVEWFKNGRPITVGHRFRPIHDFGYVALDIVHLIAEDSGVYTCRAVNLIGSDETQVELQCRSGEQIVTVTQNEAGLEQIHYLEDRSRYTRREEIDESTKQAPVFTTSLKNVEIKENQRAHFECRLIPVSDPSMRVEWYHNNLPLKSGSRFTETNNFGFVALDIMSTLPEDAGTYTCRAYNAVGEAITSAVAVVHTKKSIYLESQHETALPRLQHLEDGSKRQRISVQDEFVSQAPVFTMPVRDVRVAENQAVHFEARLIPVGDPKLTVEWLRNGQPIEASNRTTTMHDFGYVALNMKYVNPEDSGTYTCRAVNELGQAVTSASLIVQSKTSIQLETQHEAAMHKIHQLEDHSRYQRREEEEYTVTTAPVFVTKLIGPSNLVEGQSAHYECRIEPYPDPNLKVEWFHNGKPLSTGHRFRTTYDFGFAALDILTVYAEDSGEYTCRVTNNLGEAINSIVLNVTSRSSIIHETQHEEALTKIQHLEDTSRFQRKTDEEQFHAERPQFGRPLRNAKVNEGAPVHLEATLIPVNDPTMKVEWYCNGRPIQTGHRFKTTYDFGFVALDILYAHAEDTGTYMCKAKNAIGEAVTTCAVNVTANKTLDLDTLDAQRLEKIRQLETYAPPPKPVVEEKGQKPIFLTPLSNLEHLKEGEHAHLECRVEPINDPNLKIEWFCNGKQLPTGHRYRTTHDFGYVALDILYVYGEDTGTYICKATNQLGEAVNTCNVRVLNRRSMILDTQHPDALEKIQKLESKVPNARTEVGDAPISPPHFTAELRGSTEIYEGQTAHFEAQVAPVHDPNLRIEFYHNGKPLPSASRFHITFDFGYVSLDITHAVAEDAGEYSVRAVNALGQAVSSTNLRVIPRGTIISDTQHPEGLEKIRKLESTAPHQRQEPETPGTRQRPVFTQPLQNIDRINEHQTAHFEARLIPVGDPNLKVEWYRNEKIIEDSSRITKQHDFGFVSLDISHIRKEDEGVYMCRAVNPLGEAVTTASMRVVSEASIQMDTQHPDSISRIHQLEKPLAPRPTEPERLFEKPIFTQLLTGPSELWEGTHAHFEARVVPVGDPSLKFEWFINGVELQMGSRLRTTHDFGFVTLDITAVVPEDAGVYMCRAYNAAGEAVSSTAMKVKTKSNIDGQPLIPESWEAIRLKEAAMNRVPEMFVDSTPQQAPVFTTHLQSYDKLHEGQHVLLEAQVEPRADPNLRIEWFKNGISLTTGSRIRSTFDFGLVTLSINGLRADDSAIYTCKATNQVGEAVSTSSLKIEDRHWLQAESLHPDSLPRIGELEAPKEGRPEAPEPTYETPVFITHLNNIECKESDNVRFECNVEPARDPTMSIEWFYNGQPLQAAAKFKSIYDFGYCALDLTNSYAENSGVYTCKATNSKGSATTSGTLKCTGGKTMFLDTQHPQGEAGLEAVQETEEELANRYTSKTTKPETQYPPPVWTKPLQAEFHLSEAQPIHLEANVEPKEDPNLFIEWYFNGKMLNHGSRFKMTSEFGFVTMDMIEVYARDQGIYTCKAYNKAGEAFTSTTIFCSSKENIIESTQHPKGAEGLEQIQDLEDSLRKDGSKPEQPDLGIPPRFTTEFVNIADIGEGELAHFEANLIPVGDQSMVIEWFYNGKVLEASHRVRTIYAFGTVALEVLGTKIEDTGTYTCRATNKHGTAEISCNLECVDKPRGQKPRFTSHIQPLEGLKDGQSAHFECTLIPVNDPDLKVEWYHNGKLMRHSNRIKTVSDFGYVVLDISYLQDHDSGEYVCRAWNKYGEDFTRTTLNCGGRGGVFYDSLQPDSLQRIRELECPQGQQADTSAPLVAEPPKFITQIVDVTKLVEGQSAHFEARLTPITDPDLVVEWYFNGKKLPHGHRFRTFHDFGIVILDILYCYEENSGVYEARARNKYGEDVTRASLKCASKSSLILDSQLPRGMEGGLEKIANLEYSMVRTREETTEETKGKAPVFTVPLENIENLREGENAHFEARITPADDPKLKVEWYWNGRPLKAGSRFRTFCDFGFVILEISPVYPEDSGEYSCRAINEYGEAVTTATMKIQGKRSIIMESQLPKGMEGTIDRIAELEGLGSRSTEFVPDDDTGKPPEFITSPFDMVIGENALAHFECRLQPINDPSMRVDWFHNGKALWAGSRIKTINDFGFVILEIAGCYQRDSGLYTCKATNKHGEATVSCKLQVKGRQGIVMEPQLPSNFRTGTESLQKLEETMHKREELVTEDEQPNPPKFTEEIKDNLDVPEGGPIHFDCRVEPVGDPTMRIEWFYNGHVMATGSRVHQLNDFGFIALDVDYIYARDSGEYTCRATNKWGTATTSAKVTCKGKHNIVYESQLPEGMTSEKLKELERGRIPEAPKVVEEVFGPPKFTTQITSVTVDEAEAVRFECQVEPKTDPSLRVEWYRNGKPLPSGHRYRNIFDMGFVSLDILYVYGEDSGEYVCRAINNYGEDRTRATVSCKKLPTILLQNQVPRGMKRSDALTQMEATIKKYTSEVHLTEDDLFDPDRKQPPRFVTQIKEQLTLTEMAVTKFECQLAPVGDPNMKVEWFFNGKPLLHKNRFQPIYDFGYVAMNFGWVYPEDSGEYVCRATNLYGKDETRAIIKVSGKPGIVYDSQLPAHMQSIDRIREMEASWQVVPDEVDPDAKPRTKPVFVSKLEPQTVEEGDPARFCVRVTGHPRPRVMWLINGHTVVHGSRYKLTNDGMFHLDVPKTRQYDTGKVEVIARNSVGESIATTELKVVARSDDYRNVLKNSPRPWYDYELAAYQKERQENELEKVFDERKQVLSEQSSHTLKGVEHLKPKQYKPPTPDWQQNVKAKKSEDYYNKLQTLETEQLLKETNLRRDTHQYAIPGEKVVSSSQAKGMAQSYEENLQEKTSTTEVQAAPPKGIAQPSESSVHGREVHMNKQQQVQKEIQGDLEITRKITATETTEVEHKGTIQERVVQGPVKPAKAPVFTKKIQPCRVFENEQAKFEVEFEGEPNPTVKWYRESFPIQNSPDLQIHTFSGKSILIIRQVFVEDSAVFSCVAENRGGTAKCSANLVVEERRRAGKGGIQPPSFVTTIQSTTVATGQLARFDAKVTGTRPLDVYWLKNGMKIQPSIKFKMLEEDSVHTLLIIEPFAEDSGRYECVAVNAAGEARCDGDCIVQSPSKPEKPTTPGSEKAPHIVEQLKSQTVEEGSKVIFRCRVDGKPTPTARWMRGENFVKPSRYFQMSRQGEYYQLVISEAFPEDEGTYKCVAENKLGSIQTSAQLKVRPIENLDAPPTITALKDVSVTEGMPAQFKTTVTGKVKATSVQWFREGQLIPETPDFQMIFDGNSAVLLIGTTYEEDSGIFTVRVTSSTGQVESSAKLTVKKRRISAFQLRTIDSAEDESSSSGREDSAPESPHAFQPGQQPGQQFGQFLGVNGQGQHQGRSRQKKPKVRSKSLQPATKVIPWRKSSRPTRGRSLDKGVFLPGFKPEPVKSWTEETINLKATPIEKKKPAPKLEAAKVVLKSIKTERDQGIMSLGATLEQIIAGKTEKEAIPWITMREKLKAVESVQQQLNKFDLDEVYLQPLEGQIETEGQLPQQAQVEQVQRTKEIQRLKSMESVEIMEMTDQIDKLITQQQNAKDLIPWKEMRQQLKSVQRVTKQIDKFKIEEVELRHLQAQQAITEEYQTGTAEETVVMIDESSKGSISKVLRRDEQLQYEDQSNIYKQKFITTEDVNIMHVSEREKLEAQRLIREQQAVNWRQQQQRPQLQPLTSVEDTVISQTSERQKLVQQQSFIEEAQRQQFVQVEDSQMMSLEEYEHQKIINQRTQQEAFSWRQPREPQKFIQVEDSTLLHLQERHDTQEQQLLQQQPVMWDRGRKKPDQPQYVQPQEQRVKEEFVEKPKTYEEMHDELVEPTPIEQPQPVPVMWERGKKKPQPQEKTFEEAHDELVEPTPVQQPEPVPVMWERGKKKVAQQETVLSQEVVQTSQVVEQQIVEETKKTAVRRVIPPREPEQKVEQVTLKPTPRPRPKEAVKAEEIQLKPLRSTRPVPQPVEAEQKAYEEATDELTEEPIPQPQPVMWERGKKKPQKPQEEVTEIPKTLEIAVDTLEEEVPKPTEPQPQPVLWARGQKKPQKPDEQKQELPKSLEIAVDTIEEDLIKPVQPEPQPVLWERKKKKPQPQDVIEEKLDVAPTKTYEKAVDVLPDEPKVEEKPEPVLWQRGKKKIPKSEPTEEVHPDEVDAQIETVVKEDEMIVEEKRRIKKTKRPKSTKEVTEELFEEQPEEEISPEEEVPQKEVIEEIEEIVEEKRRLKKTKKPKLTQQVTEEETPHEEIIKESEEVVQEQEEIVEEKKKVKKVKKPKTVAEKQLKEEEIPTEETVEEEETAEDQQLVVEESKKVKKVKKPTGTVEKTDVEELPGEEVPVEEVPVEEVPEDVAPEEELIEEQEEIVDQDEIQEQKRKVKKAKKPKKTIEKTEIEIEEDQPEEEVLQEEIIGEQEEITERQRKVKSIKKPKKVVTEKTVDQTEQPEKPEESQAEEVKETVTEEPKKPKPAPEEAKVEQVEKISLKPAPRKQRLLPEKEQVEEVLLKPVKKIVAVSEAEQPETPETEFEVKEFAITTTEDILDVTKKRVKKKKPKTKVAAEESTEEPAEETEEFEEEATQPEEVQPVEEIPEEPQVKEVADERKTAPKPKPRKEEIIEKVEEVALKRVTRPKKELPQEATIEEVRLKPTQRTSIKPEEVKLEEVDLQHVEKKEDEIVQEEKRKTRKVKKPKHEDLPEIPDAEPTQLEEAEHIELEKQPKPEEDQPQVPWKRGEKKQPVEEVLEEKKWPSGKRRPLPEQQPEEVQLKPIPSKPIEEQQKPEKAIPGPQLVPEEKPESEEEELELEPLKLPEDKKPKEPKAKKEKKKKPKLKKATPSVDEVSEEVAEPFDEPIAEEDEVEEMPVDDVKVVAVSEDVLPEEEVVPTEETPEAKQKAHKKRTKRLKEASVEGQPQLLEAAIAEIEKVDEISQEISQKTITLLKKTEDTRPQFITTEQLIELDVEDVRRDLEMKVTSNIIKKEKRRVVLDDSQPLPELELITQKRIQEGIDKVADEELIEDQQLIQNQQETTTSEVIGQERKLVKKKKKEIKPPRITEKLRPRQCVPEEPTVLECKVEGVPFPEIKWYFNDILLFASEKYEITVMEQVAKLKIAKVTPSDVGVYTCEAKNEAGVATSRTNIILEKEQGVPPQFTKPLKIEFIEEKQPERLKVTVTCQVTGKPNPEVKWYRGIEEVIPSETVQMFYDEKTGDVALEVINPTPNEAVVYSVQAQNQFGRAIGNANILSRVDEVPREILKAPTVTPLSAVVVPTGGTLFFEAKYDGLPRPEVKWMRNGREIIENEETIIETTETTTTIKVVNMTRKRTGKYEVWAKNKVGEAKSSGSVVVSDQKPDEQIKPPRFIQPLEPKYFGEHEVAIIEAIVESEPLSSFQWFVHNEPIKSSNEVRIVSQANKSTLLIENFQSKFVGPFTCRAENVGGSVTSTATVNLIPQEEAEEFESPRFVEELVQPVEVMDGEALLLTCQVTGKPTPKVEWYHNAEKITENKETTISQDLQGVCQLQITEVFPENEGQYECVATNKIGKSVSKTNVKIQAFEYIPDSEITGLTGSEEDLLDRTLSIDEQAPKIIKKLPEKIEPKEGEQAKLEVKVVGKPKPKVKWLRDDEQIFASEEYQIENFEDGTSVLVINHVYPDDLGTISFEAYNPLGVAVTTALFAVEGIVGSKDYRKPEWVSQMEEMQVALKAAKCSPSLLNEMRDCRAALGETAKFSIQFAGNPIPDIQWYFNNVQLRASEKYRMVVQEQEATLEIMKITSEDCGYYNCKLINEIGMTMTRAKFDISSTSTIVEETKAKTTVKKKSGKKTMVKRSGASESQNVQKTEIRIIPTSAVETSMNVIKVKQPVSVLVEKSEISEVLVVKDREVADAEERSSQLIEEIEEEEEIEEKVQHDEEDEVEVQVEQKETYTSSKKIEITKTVELIRTKISEKIITIEDVQVLSHHEEVQWLLESIEAESFGQIGESALRDLATIGLLLRYGCEHYEITYMYEQNIFISLKKPESQSALVQLVEREGHEELISQILSESSNEDETILAATVGFKAFIRMIQTYEITIEIVIRKFVREDFISQDWKICGKERIVETSQIIESHEAITHVKIETATTKVEKLFKKQEQEHVQNLEQQEQVKIQVQTKQIAQMNTKIKKHKKHKQQEQEVSETTIQCEQKETLAHETSAELPQSETLEQIEESLSTYETLPIQNLSKDTLQTVAVSVTTELSTPSPTASRVQEEILPQKVLAINEEVLPLDEFGLRKESPRPKENKLTENIEVRLKHALNVSHAKTAESSKELPSKIPKSVKAQRKMKESRSLVVEAPNAEEAIEDLKPLKAVSQEVQSDILFSHEITEEQHQALETIEKLKPTSAIEDTVQQKLLSQEELIIAEVLPSETVGRDVTDVRPPGETISPRLTPNMSLCITECQPEDSIGEMQQAAKERMETPSMSVTESKAVGGQELEVLENVDHMPLITQPTKGLADYTIKAEEVPVQVQEIITFDSLERETVAKTQTAKSNALELFELSEGLVSSTADSHSPIAEDLPIFEKDVKEATIDMQMQHHVTTSETVSNENAVKDLKAVDTPKMAEGTLGQSSALTIGETQQMNLVETTVELIEPNVESTKPAKGALTEAYGTAESNEETLLESLGLVPDDNRKIEQGKVNISEGEYVAKVQTTTVTDTEGEFVSVAPKLVNPKFDFVEQSALQIKQDTTVEKEEILSSNIELAPQLATSNMFPAELKVTSIYEVQPGLTSSDIITEQTKSVSANQVFETMSIGVTSKPDMLESTSHIDAFQHPEFKTGDTILDENQQPLEVTNVQITESSTDIIDVLPNQKLTKAETVTDGFKYAEGLVVLPMESTIDKTEDTKPTAVNADISMHQQFGTDVREQEPLESTLTRTEDLKPQTQTTESQFGLLQSLETSSCVTLEGESVLSVKERHPEQSAAIGTSSALQVANITRPQHMESLDRLDEQKVPYYQANVNIGEITLPNVEKIDSFDVLSDLNTPDYNKSSKGRVQLIESTTSLKTTTAVVSESTEELKDLNITQPVHIKPKPYESDQKISISEQTNVLEHVSSLNPVLPALETIQSSIKSLHEINVRETDILEKEESLKDVDHISGRLAKIILDCTTGIAQVRQEETLEHEEDLKAPLIPLEKAIPASSELHRLPLTEYVQEQQGTSDMTDFKVSNKCASPNIDHLYETKSSEMIVYDSSINSVDSEFPAGIVPQKSLVPFRHTMVTENVAFNASENFEILSADQQIATNVQDSLSQSIIAEDQIAFETEQNLGLETTPTHKPKLLKDDQNLHAKLVDEATVYEAMGQEQKVDKYNIQQAEITHDLPQVYATDLQQTFEAEKEITTREQSYVAATTDIIPSRLGLAMTTKTHPVEGIDVLLSSPPKPSLAQTNYEETQHEVRVRETQAIEESEELTDGRLLPVSAVESIDSTFKVTSDSQQPPVFDKELSIPTVSPLEARAKPSLNLLQGTTTFDVIPLESSVLLKDTHVAVQKAQQEYVAQVESNKVHVQMDNLVMHKEDIFENAEIENFCKPITEGTQLETVVIEVVPIDNVGGIHLAPQPSTLLATLTSTDIVNQSHVIDTQVPLEMESEAQAPLDNIAQARIKSAEDHVHTNVSEVNVYEQTKAIQDQNKHGLFVKVSKNSDTSKAYLTTIQSTFLKEDILPKPNILQDTAQAAADELQSLVTEEVVSVSSIQETYELKIPLQKTANLTQQTPQNSVNVCQQLAYEETPDIAFEPHALTRATTSSVPTFLKPAENATVNIYENIEGHGDFKPGTVNLTSNSNLNSELVVSVVQEVTSVPSLGSLATVEPQELKAMPVTKSSTNLAYSEEVKGNKQEFTKIETVEEDDKQPETTVTVEELPYEEEKPEEIQELPEEVCVVETVTEDGKPKKKKIRTRVIKKVKGDKQEVTKIETVEEDDKQPETTVTVEEVPYEEEKPEEIQELPEEVRVVETVTEDGKPKKKKIRTRVIKKVKGDKQEVTKIETVEEDDKQPETTVTVEEVPYEEEKPEEIQELPEEVRVVETVTEDGKPKKKKIRTRFIKKVKGDKQEVTKIETVEEDDKQPETTVTVEEVPYEEEKPEEIQELPEEVRVVETVTEDGKPKKKKIRTRVIKKVKGDKQEVTKIETVEEDDKQPETTVTVEEVPYEEEKPEEIQELPEEVRVVETVTEDGKPKKKKIRTRVIKKVKGDKQEVTKIETVEEDDKQPETTVTVEEVPYEEEKPEEIQELPEEVRVVETVTEDGKPKKKKIRTRVIKKVKGDKQEVTKIETVEEDDKQPETTVTVEEVPYEEEKPEEIQELPEEVRVVETVTEDGKPKKKKIRTRVIKKVKGDKQEVTKIETAEEDDKQPETTVTVEEVPYEEEKPEEIQELPEEVRVVETVTEDGKPKKKKIRTRVIKKVKGDKQEVTKIETVEEDDKQPETTVTVEEVPYEEEKPEEIQELPEEVRVVETVTEDGKPKKKKIRTRVIKKVKGDKQEVTKIETVEEDDKQPETTVTVEEVPYEEEKPEEIQELPEEVRVVETVTEDGKPKKKKIRTRVIKKVKGDKQEVTKIETVEEDDKQPETTVTVEEVPYEEEKPEEIQELPEEVRVVETVTEDGKPKKKKIRTRVIKKVKGDKQEVTKIETVEENDKQPETTVTVEEVPYEEEKPEEIQELPEEVRVVETVTEDGKPKKKKIRTRVIKKVKGDKQEVTKIETVEEDDKQPKTTVTVEEVPYEEEKPEEIQELPEEVRVVETVTEDGKPKKKKIRTRVIKKVKGDNQEVTKIETVEEDDKQPETTVTVEEVPYEEEKPEEIQELPEEVRVVETVTEDGKPKKKKIRTRVIKKVKGDKQEVTKIETVEEDDKQPETTVTVEEVPYEEEKPEEIQELPEEVRVVETVTEDGKPKKKKIRTRVIKKVKGDMQEVTKIETVEEDDKQPETTVTVEEVPYEEEKPEEIQELPEEVRVVETVTEDGKPKKKKIRTRVIKKVKGDKQEVTKIETVEEDDKQPETTVTVEEVPYEEEKPEEIQELPEEVRVVETVTEDGKPKKKKIRTRVIKKVKGDKQEVTKIETVEEDDKQPETTVTVEEVPYEEEKPEEIQELPEEVRVVETVTEDGKPKKKKIRTRVIKKVKGDKQEVTKIETVEEDDKQPETTVTVEEVPYEEEKPEEIQELPEEVRVVETVTEDGKPKKKKIRTRVIKKVKGDKQEVTKIETVEEDDKQPETTVTVEEVPYEEEKPEEIQELPEEVRVVETVTEDGKPKKKKIRTRVIKKVKGDKQEVTKIETVEEDDKQPETTVTVEEVPYEEEKPEEIQELPEEVRVVETVTEDGKPKKKKIRTRVIKKVKGDKQEVTKIETVEEDDKQPETTVTVEEVPYEEEKPEEIQELPEEVRVVETVTEDGKPKKKKIRTRVIKKVKGDKQEVTKIETVEEDDKQPETTVTVEEVPYEEEKPEEIQELPEEVRVVETVTEDGKPKKKKIRTRVIKKVKGDKQEVTKIETVEEDDKQPETTVTVEEVPYEVEKPDEIQELPEEVRVVETVTEDGKPKKKKIRTRVIKKVKGDKQEVTKIETVEEDDKQPETTVTVEEVPYEEEKPEEIQELPEEVRVVETVTEDGKPKKKKIRTRVIKKVKGDKQEVTKIETVEEDDKQPETTVTVEEVPYEEEKPEEIQELPEEVRVVETVTEDGKPKKKKIRTRVIKKVKGDKQEVTKIETVEEDDKQPETTVTVEEVPYEEEKPEEIQELPEEVRVVETVTEDGKPKKKKIRTRVIKKVKGDKQEVTKIETVEEDDKQPETTVTVEEVPYEEEKPEEIQELPEEVRVVETVTEDGKPKKKKIRTRVIKKVKGDKQEVTKIETVEEDDKQPETTVTVEEVPYEEEKLEEIQELPEEVRVVETVTEDGKPKKKKIRTRVIKKVKGDKQEVTTIETVEEDDKKAETTVTVEETELSAPSVGKVQLKKRVIVQKPEDAVTVFELPERKSVILSEKEDGTPTKTVIKTRIIKKIQGPNMEVTKVQTVEEYEKAPQTIVSVEKFNTPFPELPEERLSEVVMLPDEVFESEAVDEEGRLKMIKTKKRIIRKPALDNTEEVTEIGIIEQDNVEPIYSVKIQERPLTESKPEDSKLIELPEHVTELNVILPDGKKKRRTVKSRAFKKSLDDDLDEVTTIHIIEEEDKEPLTKVNIEVVPSDEISITPIPIEELPEETVFTEELDENKKPKKKTTKTRTFKKRGPDDDEYFQIQTIDEEGKEPISLIRVVSDENIADIIDISKLDDEKVLKHKQKPHKHKDQYYKEYTITEPEEASADALQKPTKDKTPKQKKTLETPIEEVDETVIIDEGTGEQTDQIAIKRKPRKVQGNVQVEAVDEKPIEKKEKAKKKKVVKTKRDEMDDYIQFLIHQEIPKTVLQPYQRTEMELPQRARRDSSFKQPVKLTPMKIEKVEFKKPKMVEISSVVEFPQMLKLKAPKQRPQEEKKKKNEASFKNKKLKSWIRFVPYAPYCFPYVVTELETNREVGELSRNVDEAEEVLKLRPKKFKHSKPEKAELEEADLGAYESDHSDKSNKELLHPKYKRGKKEKIETPDESRKLKFGKGKVPQNEEASEEVNLKPVKLDIAEIEDAEMPVRTQEEEVVKKKKPKKSSKPEEGLQFEPIEFEEMERTSDIREESDTSVSVDTSTQEKPIYKKKKKVTPSPQKNQYKILPGQPREFEETPEDDLNLRKRQGERPDDDKADTKLKPFYKFEVLDLEPEGVQAETVPLSETIAKEPKKKRKIKVKTEQEDNTIEIVPLSPEDNDEQIFEITVTSSEIPQGDAKAKTIGKKKVKRMNKQELDDFVTELQEEPNQEVYETRMSDFYEVKLTELPSEMDSDKPTKRILRHEKGDEVQVLEIVESVVAPGEEPFYEINVISSANTEGDSEEITTDKIKKKSRKIKKDDLDAYIQQLINAEIPVTELEKYEKIDVDGKAKKPKKLKAKTKKPIIDEGETLQVGVTEHEPTKKLKTKKPEEKKNVIEKELAEHEAVPEYDEFLINKTESERPQEKRVEETEKDIVPIVDKVLADLNDCLPFVVVEEDLKDMPLATDVIALEDEKIIRKRKVRAKKDSKQYEIEIIETEKPGDIPDEARVIVITTEVSGDTIDGPAPSTTEAPKKSVRKVKKEKLKEFIVNIVEEAPLDHVSEIYEDVLRTPFRESSEKEDIPSFTTTVVEDEIVNPVLPEKIKTVDDVRVPKDKKKKIDNQKKIKISEFEPTPTSEDSTIEEYTPKLSEHDEDLQTDEYSVDVKDSLPKSKKKSTKKQKKESLPGPISLYTIRIEETTPEPITEKIYEDGKEVVRVINKRRIKKKAGPKEYLIEVIETYEDNNPEADVVIRTIETTPSIDSKPQEDHKIQVVQEKKPKTESLDNYIQKLIDQEIPQVDHKEFKATVLETSPESKKAKKIKKHHKKTTEVIDGIPITVIEVTIQETETDDEDFKPDEVTLKEIDHENAEEAPKVLKSKVSEEKPKSKKEKSLEFKIAEEDKPKPVLEDISEDVQVVQIIEEDGTPKQVEIKKKKVSRKHGPKEQVFEITETKAIDEPLSEVTVVEITDEQPQEEVLPAQEKKPIKKQKKLKPEDVNTYVVKVLEELTEPTQFETIPEDADDKPQPVIEDISENVQVVQIIEEDGTPKQVEIKKKKVSPKHGPKEQVFEITETRPSDEPLAEVTIVELTEEGLNKDIVIPQEKKTVKKPKKLKPEDIQSYVIRVLEEFNEPQWPASTEKPIIEDIAESIEIVPVTEEDGITKEVEVKKKKVSRKQGTKNQVFEIIETKTSDEPLAEVTILELSGDKSQEVTILPKEKKPIKKTIKLKPEDVESYVVNVLEEFCEPQSFESPEPTEGEAHETKTKTKKPKKPIVKAPENVILIEEMAPETVIENIVNEIGEEVKQVKTTKKLKKKEGPKEYLIEIKETYEENKPEGDIEITTTELVPEGSPDASDDQPVIVVQKIKKKKPVKDDLDKYIQQLIEQEITKTPLEEYEPTEMDSKKKPKKKVKSHNKKTIEVIDGLPVTIHEFNVEDIVSEPEDMETPKTLLDEIKEIPQLPDDSSKYLVNISDEFGEADKPIKQPTQDQPIKKEKPLKKKKDVEYPVSLEAFDHTVKVVSEPTLEGTVKEVTVKKRKVSRRKGSKDHIFEITETTSEDRPTAEVTVVELSSDEVLDSEEKPKHERKIVKKPKQLKKDDVEEYIINIIEEFIQPIPVGLVEDEVEKVQKEETKKPKKSPITYIATEQEDNDNNYDALVKEDLDQPIERALEKPSSPLEYTISVEEDSVGEEQKQPKPKKISKPKSIKQPSVDKSPDYLVNVISEESIIDEPIPEDYVVTEAAEEKPSEEPTFKVEELETEAVEKEVTDDDKGETTKQSVTKRKIKKLVGPKEEIIEIVETKTGDTPEYEVIVTTEEVQEKSKEAPEEKKAKTVRKAKKIPKDDLQDYIQKLIEQDIPKTELEKYEKIDLDEPVKMKRKPIKKVKQSEEQPKEETEEPIEDKPVEKISEYSEVDSDEPKLTVAVKEFIPEKPEEKPFEIVVLEETVESKREPDEEGKVREKVVKTKKIKQNRGSVEVVHDIVEEIDTDTNESVITVTTTVPTETPDQDQPSVKQKRTKKIKKDEVEDFVKRVIEEEAPQPEGSVDLVVIEDFVPKPSSEKRKKKPIKDKHTSVEEETPHEDEVLLIESVPEDSPLSDDLITVVDSVPIEEEPENKVNQIEDTKKPEKKKKPKPSAKILEENVPEDTVEKPLEALHTDSDLEKPDVQEFSISIKEEEQKHTHPEKKKSSKISSEQPKQPSTEQYEISVTEHDLKPEEEKPFTVQVIQSETNVEETKDDTGKVHKQVTTKRMLRRPAGEGEIEIIEVVRDDQPEAEITIVEYEPEPVNQDEKPKEPKKKTRKVKKDDIHDYIQKLIELETPKTELEKYEKIEFEPIVKDKPLDSPIDVLDESPKEVQKKDKKSRSTKVPNEETPVQEQYAKVNVVEEEAPEQPEIPVQILEVKPVEVDVKEVITEDGKPVQEKTTKRVLKKIGPEEQTTFKITMIESEDNDSVTVIVDEEPEIASPQSIEEHPEQSKEKLAPKPKKTVRKVKKDDLSDYVKKLIEEEIPKVDLEKYEKVEMPEKPVKLTVSDSIPEEPKPDKSQPISVLPDTTKPKKTKTPKTPKTEDTDQQVPDEPTETTVDTTDIPELTPTQTAQPEDTATAQITPSAQEEKSTQDDTKDTIQKTVKHKKTKPDTQKSVETSELPEVHKDYQISIIHEELVEEEQPEKILEVRVIDEVAEVEESQPIVEEVEDEEPQPATEETVEDVTKPKSKKKKVVKKKTDDHDELIKKMLEQEIEKTELEKYEKIEFDVPKKLKPEFAALEPIKIERKEQKPTKVTILDATDVPKTVKLKPSKRKEKPAEELTVQLPKFRLKARMVLVEYPPAPLIPKTTDIGAIKDNGELSRNIEEAEEILKFKPHKTKKIKKIKDDLEKVELEKYEKYISSEEEPEEKTPYKKPEKAPKPEEKQEDVKLKLGKGKKKPKEEEAPENVTLKNIPQKPQEVEEEVELKQKPKEVEIVEEQTKKPKDGEFVVEPFEPSEFDRPEYVPDELEQIEHPEIPEKVKKPSKTKYKPKDKSKSEPETIVSEIVAGVPKEEEAIPEQDVKFRKPERDAPEETDSEIKLRPVPQASKDENPDEQALVTPKAEEPIPQEIEDKAIDDEKKPKKSKPKKVQPKEQEIAKEEPEEFEVSVKEEEALVDKPIEIEKPKDVKVKEKKPKEAPVSEVVVIEEEPKPEEVPEEIPVEYKITTTVLEPEDAPKEHQVKVIDFDERQETTEEVIEEKVVTRKKKPKPQQPEEFEVTLKEPKEEQIQPDVVSAEISLPIEEPEQKPEQYEVELKITQTTPEEPNDVQIAVKEKVKTKPVKKVKEDKIVVVEAEEEKQPVEETIVEVEKQEEKKKSEKPKSYEFKISETQSIEEKPIEVAEEAPEETPKVVEKKVAEKFDSYEFTLKETDEEKVITVDDQPEEEAPVEVVFKKKPKEPEAVEAEFVMTEPKIVEETSVETAIKQKKTKKPKKDEEEAQLAIKVVESEAPVAEEVFSEAPESKIVEEEVIAEEKPKEFTIRVSESEPKPEEPSVEQFTVKKRKPSVTFADEPATEIVIKESKPAEVVTEDAHIKTKKPKKKVTDVEAEELKIKITEEVPQEIPILEEVSEEEVITETKKTAPVVEEKTYKIGIKETEPEKPAEAIVEEEEPVVTEPIEEAPKPEVFEEHKVRVIEETPRELVEEVIEEEVKVIRRKKPKPEIKEEPEAEVTVSTPKPVEEVEATSSIAVIPEQPTEEEAADLKITIIEEETPPQELVQEIEEIEIVEEPKAPEEQPTDFTFATKDSEKKPTVEELPEEQVTIQKKKKKAPVPEVVEEPEAEFLVKPKTPVQEVTEEAKITKSKKPVKEEEAAAELKVTITEEIPTEPEVQEIIEEIEEIEEEKPAEYVIEVKESQPEAVEDKEVSLPKKKPKAPIVEEPEAEITLKPKVKSEEVQEEAKIVKKKPKKIDEVAVADELTVKVEEEVVPEPIVEEEVIEEFEIKKKPKEPEPEDIVDAAIVKLKKPEPVDADEVVAEVTLKPKAKTEVTEEEFSVDVKLPKEKKERPVEIEEEEIIEEAVVIRKKPKKPFEPTVEDLEETEFSLSFKKPHTINEGVEEAATVLKKRPVKPTTLDEAAAELSIKRQEEEYEEGEDIEEFVVSQQRKPKPLQITEEDEEAYTVKKLKRRKQVDIPEYADVENVTFRARSTKTKEDVDQEFNIALDSYAEEEISMSGKVKLKKPIKKTFSEAADEAKIKIIQDFDDGEEPIIEEIRDDEDTIDEVEEPEEYFVEELPPDEVDFKLKPKKHPKPAYSVQDEEEEQFLIGIRHPKRDSVTYDEDSLTFKKKRKVVQQLFNEDGASLNITREMNVEESENLNIMYSICNYIADNNEAINLVEGEKVTVVGRHSSEWWYVKKSTTEEEGWVPAQYLMEPEEYAQYVQNKLHEKIDKLPVFERPGPEDKPIAPRFIEKLQPIHTPDGYTVQFECKVEGNPRPQIAWFRETAIIKPSQDFQMFYDDDNVATLIIREVFPEDAGQFTVVAKNAAGFTSSTTELIVESPLSDHGSDATALSRRSMSRESSLADILEGIPPTFSKKPKAQYVDENTNVILECRLVAVPEPDIVWTFNGEDIDEEEIKNVRIVTESDMHMYCSVVHISKVKKSQEGTYEVIATNREGEARLPITLKVRTTDKEAPQILEPLRNMVIREGESVVLSTQIVGNPPPKVTWYKDGKPVKNAKSDKDLHTLTLITPQKSEKGEYTVKAVNPLGSVETTANLTIEEPAGGNAEPPLFVERFEEQNVPQKGEIRLPAKVSGNPVPEVQWLFNNTPLFPSERIQQVYDGENIELIIKDANPETDSGDYKCIASNPIGKTSHGARVIVEVDEVTFTKKLKKTITIEEVQSLTLECETSHVVTTKWFFNGKELSGMDHRVVVEDGKTHKLVIRNTNLRDSGTYTCKVKKQETQSTVEVLQRKPDFIKVLEDYEVTEKDTAILDVELTTEATEVTWYKDGEKITPENKNVEFIKDGKARRLVIRDVTIHDEGQYTCKIEGQECSCELVVIELPPEIVEPLNDVAVTKGENAVFEVELSKGDALVKWFKNGKEIVFNERIQLAIDGKKQSLRIVKAKPEDVGEYSVQVGEQTSKAKLTVEEPLVDFVIRLPDITLATKTTDAEFTVQLSQPDVEVTWCKKGKPIKPNQKHEVFVEGTVRRLVIHDASDEDAGEISCVAENVTSSTKLCVEELKLPPVITSDKDQTIKVKENDDVTFTVKYTGVPTPEACWTTRKVVIPKSKRTIPTIDEQSAKLTIKKVVDDDEGEYTVKLVNPVGEAEASLHLVIMRKPTAPGTPQPLEIMHDSITLYWKAPEDDGKSEIIEYILEYQDVKEEKWTEIRKIKDTTYTISKLKIDTEYVFRSIAVNEVGPSPPSPLSPPIRLVPKVETKAPSVQEPLQDVVSELDKEVTLSCVFGGIPEPKVTWKKNGQVFESRSIRYENRVAKYTIEKTTIETEATYTCVATNEKGSAETSCRLKLQQKPVLEVEDKYLTQKLRTGSILTIPATVRGYPQPTVTWHKETIEQKTTKSVTIETTETTSTYTVKKVTREQSGKYKVTATNESGTTYVECTVQVIDKPSRPQSLEIKDIKKDSIVLEWTPPVDDGGLDIEKYTLEKCDVQNNVWMKVSDFNKDIKSYAVQKLSMNAQYMFRVVAANPIGESEPTESDPVTITKKFEKPSPPRGPTTVSGMNDTSFNLAWEPSETDGGSKIIEYIVEIREETETTYRSVGVTLGTVTNIHVEKVVRNKGYFFRIYARNEVGTSEAFETTEKIVLGRKITPPSPPQNLRAPDVTSRSVTLDWEVPARNGGSEITGYCVEKRSSTSTNWTKVITLDAHQLHYTIDNLKEKCEYWFRVSAENEVGLGAPAVTESISLKTHASEFILVVRNCGSYTEFGFLKAVPSPPTGPLEARVLAANAHIFEWGLPESDGGAPLLGYHIAIRDMKKTMWIEVGRVPAGVLKFQIRDLQENHEYMIRIFAKNEIGLSEPLESEEPYKAMTAGHESLPDEPRTEMSSCNTSSWLRDHHMDADIHSYARGRLLQRDEYFFRLWAELPKSKKKKSSK |
| 2992 | sp|Q5T1C6|THEM4\_HUMAN | MLRSCAARLRTLGALCLPPVGRRLPGSEPRPELRSFSSEEVILKDCSVPNPSWNKDLRLLFDQFMKKCEDGSWKRLPSYKRTPTEWIQDFKTHFLDPKLMKEEQMSQAQLFTRSFDDGLGFEYVMFYNDIEKRMVCLFQGGPYLEGPPGFIHGGAIATMIDATVGMCAMMAGGIVMTANLNINYKRPIPLCSVVMINSQLDKVEGRKFFVSCNVQSVDEKTLYSEATSLFIKLNPAKSLT |
| 2993 | sp|Q96CG3|TIFA\_HUMAN | MTSFEDADTEETVTCLQMTVYHPGQLQCGIFQSISFNREKLPSSEVVKFGRNSNICHYTFQDKQVSRVQFSLQLFKKFNSSVLSFEIKNMSKKTNLIVDSRELGYLNKMDLPYRCMVRFGEYQFLMEKEDGESLEFFETQFILSPRSLLQENNWPPHRPIPEYGTYSLCSSQSSSPTEMDENES |
| 2994 | sp|P82094|TMF1\_HUMAN | MSWFNASQLSSFAKQALSQAQKSIDRVLDIQEEEPSIWAETIPYGEPGISSPVSGGWDTSTWGLKSNTEPQSPPIASPKAITKPVRRTVVDESENFFSAFLSPTDVQTIQKSPVVSKPPAKSQRPEEEVKSSLHESLHIGQSRTPETTESQVKDSSLCVSGETLAAGTSSPKTEGKHEETVNKESDMKVPTVSLKVSESVIDVKTTMESISNTSTQSLTAETKDIALEPKEQKHEDRQSNTPSPPVSTFSSGTSTTSDIEVLDHESVISESSASSRQETTDSKSSLHLMQTSFQLLSASACPEYNRLDDFQKLTESCCSSDAFERIDSFSVQSLDSRSVSEINSDDELSGKGYALVPIIVNSSTPKSKTVESAEGKSEEVNETLVIPTEEAEMEESGRSATPVNCEQPDILVSSTPINEGQTVLDKVAEQCEPAESQPEALSEKEDVCKTVEFLNEKLEKREAQLLSLSKEKALLEEAFDNLKDEMFRVKEESSSISSLKDEFTQRIAEAEKKVQLACKERDAAKKEIKNIKEELATRLNSSETADLLKEKDEQIRGLMEEGEKLSKQQLHNSNIIKKLRAKDKENENMVAKLNKKVKELEEELQHLKQVLDGKEEVEKQHRENIKKLNSMVERQEKDLGRLQVDMDELEEKNRSIQAALDSAYKELTDLHKANAAKDSEAQEAALSREMKAKEELSAALEKAQEEARQQQETLAIQVGDLRLALQRTEQAAARKEDYLRHEIGELQQRLQEAENRNQELSQSVSSTTRPLLRQIENLQATLGSQTSSWEKLEKNLSDRLGESQTLLAAAVERERAATEELLANKIQMSSMESQNSLLRQENSRFQAQLESEKNRLCKLEDENNRYQVELENLKDEYVRTLEETRKEKTLLNSQLEMERMKVEQERKKAIFTQETIKEKERKPFSVSSTPTMSRSSSISGVDMAGLQTSFLSQDESHDHSFGPMPISANGSNLYDAVRMGAGSSIIENLQSQLKLREGEITHLQLEIGNLEKTRSIMAEELVKLTNQNDELEEKVKEIPKLRTQLRDLDQRYNTILQMYGEKAEEAEELRLDLEDVKNMYKTQIDELLRQSLS |
| 2995 | sp|Q6R5N8|TLR13\_MOUSE | MSGLYRILVQLEQSPYVKTVPLNMRRDFFFLVVTWMPKTVKMNGSSFVPSLQLLLMLVGFSLPPVAETYGFNKCTQYEFDIHHVLCIRKKITNLTEAISDIPRYTTHLNLTHNEIQVLPPWSFTNLSALVDLRLEWNSIWKIDEGAFRGLENLTLLNLVENKIQSVNNSFEGLSSLKTLLLSHNQITHIHKDAFTPLIKLKYLSLSRNNISDFSGILEAVQHLPCLERLDLTNNSIMYLDHSPRSLVSLTHLSFEGNKLRELNFSALSLPNLTNLSASRNGNKVIQNVYLKTLPQLKSLNLSGTVIKLENLSAKHLQNLRAMDLSNWELRHGHLDMKTVCHLLGNLPKLETLVFQKNVTNAEGIKQLAKCTRLLFLDLGQNSDLIYLNDSEFNALPSLQKLNLNKCQLSFINNRTWSSLQNLTSLDLSHNKFKSFPDFAFSPLKHLEFLSLSRNPITELNNLAFSGLFALKELNLAACWIVTIDRYSFTQFPNLEVLDLGDNNIRTLNHGTFRPLKKLQSLILSHNCLKILEPNSFSGLTNLRSLDLMYNSLSYFHEHLFSGLEKLLILKLGFNKITYETTRTLQYPPFIKLKSLKQLNLEGQRHGIQVVPSNFFQGLGSLQELLLGKNPSVFLDHHQFDPLINLTKLDISGTKDGDRSLYLNASLFQNLKRLKILRLENNNLESLVPDMFSSLQSLQVFSLRFNNLKVINQSHLKNLKSLMFFDVYGNKLQCTCDNLWFKNWSMNTEEVHIPFLRSYPCQQPGSQSLLIDFDDAMCNFDLGKVYFLCSFSMVLSTMVFSWFSTKMIASLWYGLYICRAWYLTKWHKTEKKFLYDAFVSFSATDEAWVYKELVPALEQGSQTTFKLCLHQRDFEPGIDIFENIQNAINTSRKTLCVVSNHYLHSEWCRLEVQLASMKMFYEHKDVIILIFLEEIPNYKLSSYHRLRKLINKQTFITWPDSVHQQPLFWARIRNALGKETVEKENTHLIVVE |
| 2996 | sp|Q01085|TIAR\_HUMAN | MMEDDGQPRTLYVGNLSRDVTEVLILQLFSQIGPCKSCKMITEHTSNDPYCFVEFYEHRDAAAALAAMNGRKILGKEVKVNWATTPSSQKKDTSNHFHVFVGDLSPEITTEDIKSAFAPFGKISDARVVKDMATGKSKGYGFVSFYNKLDAENAIVHMGGQWLGGRQIRTNWATRKPPAPKSTQENNTKQLRFEDVVNQSSPKNCTVYCGGIASGLTDQLMRQTFSPFGQIMEIRVFPEKGYSFVRFSTHESAAHAIVSVNGTTIEGHVVKCYWGKESPDMTKNFQQVDYSQWGQWSQVYGNPQQYGQYMANGWQVPPYGVYGQPWNQQGFGVDQSPSAAWMGGFGAQPPQGQAPPPVIPPPNQAGYGMASYQTQ |
| 2997 | sp|Q14188|TFDP2\_HUMAN | MTAKNVGLTSTNAEVRGFIDQNLSPTKGNISFVAFPVSNTNSPTKILPKTLGPINVNVGPQMIISTPQRLTSSGSVLIGSPYTPAPAMVTQTHIAEATGWVPGDRKRARKFIDSDFSESKRSKKGDKNGKGLRHFSMKVCEKVQRKGTTSYNEVADELVSEFTNSNNHLAADSAYDQKNIRRRVYDALNVLMAMNIISKEKKEIKWIGLPTNSAQECQNLEIEKQRRIERIKQKRAQLQELLLQQIAFKNLVQRNRQNEQQNQGPPALNSTIQLPFIIINTSRKTVIDCSISSDKFEYLFNFDNTFEIHDDIEVLKRMGMSFGLESGKCSLEDLKLAKSLVPKALEGYITDISTGPSWLNQGLLLNSTQSVSNLDLTTGATLPQSSVNQGLCLDAEVALATGQFLAPNSHQSSSAASHCSESRGETPCSFNDEDEEDDEEDSSSPE |
| 2998 | sp|Q59H18|TNI3K\_HUMAN | MGNYKSRPTQTCTDEWKKKVSESYVITIERLEDDLQIKEKELTELRNIFGSDEAFSKVNLNYRTENGLSLLHLCCICGGKKSHIRTLMLKGLRPSRLTRNGFTALHLAVYKDNAELITSLLHSGADIQQVGYGGLTALHIATIAGHLEAADVLLQHGANVNIQDAVFFTPLHIAAYYGHEQVTRLLLKFGADVNVSGEVGDRPLHLASAKGFLNIAKLLMEEGSKADVNAQDNEDHVPLHFCSRFGHHDIVKYLLQSDLEVQPHVVNIYGDTPLHLACYNGKFEVAKEIIQISGTESLTKENIFSETAFHSACTYGKSIDLVKFLLDQNVININHQGRDGHTGLHSACYHGHIRLVQFLLDNGADMNLVACDPSRSSGEKDEQTCLMWAYEKGHDAIVTLLKHYKRPQDELPCNEYSQPGGDGSYVSVPSPLGKIKSMTKEKADILLLRAGLPSHFHLQLSEIEFHEIIGSGSFGKVYKGRCRNKIVAIKRYRANTYCSKSDVDMFCREVSILCQLNHPCVIQFVGACLNDPSQFAIVTQYISGGSLFSLLHEQKRILDLQSKLIIAVDVAKGMEYLHNLTQPIIHRDLNSHNILLYEDGHAVVADFGESRFLQSLDEDNMTKQPGNLRWMAPEVFTQCTRYTIKADVFSYALCLWEILTGEIPFAHLKPAAAAADMAYHHIRPPIGYSIPKPISSLLIRGWNACPEGRPEFSEVVMKLEECLCNIELMSPASSNSSGSLSPSSSSDCLVNRGGPGRSHVAALRSRFELEYALNARSYAALSQSAGQYSSQGLSLEEMKRSLQYTPIDKYGYVSDPMSSMHFHSCRNSSSFEDSS |
| 2999 | sp|Q8NDV7|TNR6A\_HUMAN | MRELEAKATKDVERNLSRDLVQEEEQLMEEKKKKKDDKKKKEAAQKKATEQKIKVPEQIKPSVSQPQPANSNNGTSTATSTNNNAKRATANNQQPQQQQQQQQPQQQQPQQQPQPQPQQQQPQQQPQALPRYPREVPPRFRHQEHKQLLKRGQHFPVIAANLGSAVKVLNSQSESSALTNQQPQNNGEVQNSKNQSDINHSTSGSHYENSQRGPVSSTSDSSTNCKNAVVSDLSEKEAWPSAPGSDPELASECMDADSASSSESERNITIMASGNTGGEKDGLRNSTGLGSQNKFVVGSSSNNVGHGSSTGPWGFSHGAIISTCQVSVDAPESKSESSNNRMNAWGTVSSSSNGGLNPSTLNSASNHGAWPVLENNGLALKGPVGSGSSGINIQCSTIGQMPNNQSINSKVSGGSTHGTWGSLQETCESEVSGTQKVSFSGQPQNITTEMTGPNNTTNFMTSSLPNSGSVQNNELPSSNTGAWRVSTMNHPQMQAPSGMNGTSLSHLSNGESKSGGSYGTTWGAYGSNYSGDKCSGPNGQANGDTVNATLMQPGVNGPMGTNFQVNTNKGGGVWESGAANSQSTSWGSGNGANSGGSRRGWGTPAQNTGTNLPSVEWNKLPSNQHSNDSANGNGKTFTNGWKSTEEEDQGSATSQTNEQSSVWAKTGGTVESDGSTESTGRLEEKGTGESQSRDRRKIDQHTLLQSIVNRTDLDPRVLSNSGWGQTPIKQNTAWDTETSPRGERKTDNGTEAWGSSATQTFNSGACIDKTSPNGNDTSSVSGWGDPKPALRWGDSKGSNCQGGWEDDSAATGMVKSNQWGNCKEEKAAWNDSQKNKQGWGDGQKSSQGWSVSASDNWGETSRNNHWGEANKKSSSGGSDSDRSVSGWNELGKTSSFTWGNNINPNNSSGWDESSKPTPSQGWGDPPKSNQSLGWGDSSKPVSSPDWNKQQDIVGSWGIPPATGKPPGTGWLGGPIPAPAKEEEPTGWEEPSPESIRRKMEIDDGTSAWGDPSKYNYKNVNMWNKNVPNGNSRSDQQAQVHQLLTPASAISNKEASSGSGWGEPWGEPSTPATTVDNGTSAWGKPIDSGPSWGEPIAAASSTSTWGSSSVGPQALSKSGPKSMQDGWCGDDMPLPGNRPTGWEEEEDVEIGMWNSNSSQELNSSLNWPPYTKKMSSKGLSGKKRRRERGMMKGGNKQEEAWINPFVKQFSNISFSRDSPEENVQSNKMDLSGGMLQDKRMEIDKHSLNIGDYNRTVGKGPGSRPQISKESSMERNPYFDKDGIVADESQNMQFMSSQSMKLPPSNSALPNQALGSIAGLGMQNLNSVRQNGNPSMFGVGNTAAQPRGMQQPPAQPLSSSQPNLRAQVPPPLLSPQVPVSLLKYAPNNGGLNPLFGPQQVAMLNQLSQLNQLSQISQLQRLLAQQQRAQSQRSVPSGNRPQQDQQGRPLSVQQQMMQQSRQLDPNLLVKQQTPPSQQQPLHQPAMKSFLDNVMPHTTPELQKGPSPINAFSNFPIGLNSNLNVNMDMNSIKEPQSRLRKWTTVDSISVNTSLDQNSSKHGAISSGFRLEESPFVPYDFMNSSTSPASPPGSIGDGWPRAKSPNGSSSVNWPPEFRPGEPWKGYPNIDPETDPYVTPGSVINNLSINTVREVDHLRDRNSGSSSSLNTTLPSTSAWSSIRASNYNVPLSSTAQSTSARNSDSKLTWSPGSVTNTSLAHELWKVPLPPKNITAPSRPPPGLTGQKPPLSTWDNSPLRIGGGWGNSDARYTPGSSWGESSSGRITNWLVLKNLTPQIDGSTLRTLCMQHGPLITFHLNLPHGNALVRYSSKEEVVKAQKSLHMCVLGNTTILAEFASEEEISRFFAQSQSLTPSPGWQSLGSSQSRLGSLDCSHSFSSRTDLNHWNGAGLSGTNCGDLHGTSLWGTPHYSTSLWGPPSSSDPRGISSPSPINAFLSVDHLGGGGESM |
| 3000 | sp|P63308|TNFL6\_MACFA | MQQPFNYPYPQIYWVDSSASSPWAPPGTVLPCPTSVPRRPGQRRPPPPPPPPPLPPPPPSPLPPLPLPPLKKRGNHSTGLCLLVMFFMVLVALVGLGLGMFQLFHLQKELAELRESTSQKHTASSLEKQIGHPSPPPEKKEQRKVAHLTGKPNSRSMPLEWEDTYGIVLLSGVKYKKGGLVINETGLYFVYSKVYFRGQSCTNLPLSHKVYMRNSKYPQDLVMMEGKMMSYCTTGQMWAHSSYLGAVFNLTSADHLYVNVSELSLVNFEESQTFFGLYKL |
| 3001 | sp|P53840|TOF1\_YEAST | MSADLQQGTTNAADFSLTVLRARIALLATAIGGPDYTSQIDPPPYKLGDDCLACLKDLKRWFKLVDDQQKRWDVAMAVAEYRILTDDLLPILIDWENKCSLAAKLAKNNPDHEEFRNKAYYDKIALNCLQLLVLMTWPLIVTEQSSSNQITLYGELKKHQLVYKKTILSMESGKVLRAAIRLALDVIKIDRLSRTPRDNMVLKLVLNFFRNVIAIEPGEFTINTKKSMPKKGITSIDTLPPNVSMDDISLNTVISSFHKNKVFGFLLTLTSSLSKEFDQDFINIPLLEIMFYFTKDVNQELLFPRQFETGTHSKVVNKNESSSANNIVTSAGFELSKLLQKEHQMRKNVIKHTSARHSRFGGLLSIQTPDKTRLTVSGSQALVDEKIALQKLDDSKKWNKRIIKKHQSVAAEGLPNSLLNSQTGKAIFFTESNGKHFKEFINNFIDSGFNILLHSVTNYFTTEQDRMVTLEQVEYLLFFAWFVKYQLLRSKIDNSADIKQVSEALKEVTFILVSSLLRSAYDLKNWTVTHAGMIAFNELLNLVSRTKAAQEEDSTDIEFIVSRLFSDERIQLLSNLPKIGSKYSLQFMKSCIELTHSVLKVLEQYSDDKTLVIEGKSRRQKKFNISEGDITKLIEEENVDRDEALDILTSSLRSIEVNFQKVQANYMTEPVIETYINFLERFRELEDDSIKKVFSFFHRVFVQAKEQALLFRFDLIILLREMLSPDGLDRMSRSRKYVSQFSDYFLARLKKRLKKSPAWFVGLLFPPLHNSEVGFYQRYGEYNVLNNESMYAAPASQFKPIPDEEALPPSILLDMKYGVLVSTLLDDGKTELLDQLLKHITHTLDIFKSWLTVNVNAGKETVNPPNEYFTLTGVLNNDPIFKDKDYRALLLLIGYSIPRKINEPCFLPGTVEVSDLTVSCELVKKYLSTPFETPNGLPSSSYLLRVRSEKDSFSHNEQDGWEGDDDYDYNDPYIVPDDQILSKSDAAYFKDLDNNASDKLKGTKFSKGIARSKKKDKRKRRKGEAKTNLPMFGDQDDERPQTVRERHGVFSKEFISDSEDDEDLMNPIFFENETYMRWLLDKNNGQLTEDRYIQFAKFAAERMNNGGVVTGDYTSLFGGSIPSIESIRATESSSFAPDKSLISLASHVASEMSIFDVNNNNNNQLSDDDVNSESRNSLGSSQPSNSQNMFQSEVYSRKESTKRSLEASAADESDEDEEAIRLFGKKSRVVLSQGDSDD |
| 3002 | sp|Q9BWD1|THIC\_HUMAN | MNAGSDPVVIVSAARTIIGSFNGALAAVPVQDLGSTVIKEVLKRATVAPEDVSEVIFGHVLAAGCGQNPVRQASVGAGIPYSVPAWSCQMICGSGLKAVCLAVQSIGIGDSSIVVAGGMENMSKAPHLAYLRTGVKIGEMPLTDSILCDGLTDAFHNCHMGITAENVAKKWQVSREDQDKVAVLSQNRTENAQKAGHFDKEIVPVLVSTRKGLIEVKTDEFPRHGSNIEAMSKLKPYFLTDGTGTVTPANASGINDGAAAVVLMKKSEADKRGLTPLARIVSWSQVGVEPSIMGIGPIPAIKQAVTKAGWSLEDVDIFEINEAFAAVSAAIVKELGLNPEKVNIEGGAIALGHPLGASGCRILVTLLHTLERMGRSRGVAALCIGGGMGIAMCVQRE |
| 3003 | sp|Q5BJH2|TM128\_HUMAN | MDSSRARQQLRRRFLLLPDAEAQLDREGDAGPETSTAVEKKEKPLPRLNIHSGFWILASIVVTYYVDFFKTLKENFHTSSWFLCGSALLLVSLSIAFYCIVYLEWYCGIGEYDVKYPALIPITTASFIAAGICFNIALWHVWSFFTPLLLFTQFMGVVMFITLLG |
| 3004 | sp|Q8HZV3|TFR1\_PIG | MMDQARSAFSSLFGGEPLSYTRFSLARQVDGDNSHVEMKLAADEEENVDSNTRSNHIGVAKPKRLNGYVCYGIIAVITFFLIGFMIGYLAYCKRVESKTDCKTLVPTEPSETEETETFEAENFPQTPRLFWADLKILLSKGLDTTDFTRTIKMLNEDYAPREAGSQKDESLGFFIENQFREFKLSKVWHDEHFVKIQVKGSNAENSVTLVNTDSNSLVYPVESPEGYVAYSKATTVTGKLIFANFGTKKDFEDLKMPVNGSLVIVRAGKITFAEKVANAQSLDAIGVLIYMDRANFPIINADVPVFGHAHLGTGDPYTPGFPSFNHTQFPPSQSSGLPNIPVQTISRAGAEKLFGNMEQDCPLTWRTDFPCKLVSSPSKNVKLTVNNVLKEIKILNIFGVIKGFEEPDRYVIVGAQRDAWGPGAAKSSVGTSLLLNLAQILSDMVIKGQFKPSRSIVFASWSAGDFGAIGATEWLEGYLSSLHLKAFTYINLDKAVLGTSNFKVSASPLLYSLIEKMMQDVKNPVTGQSLYRDSNWINKVEKLSFDDAAFPFLAYSGIPAVSFCFCEDTDYPYLGTTMDTYDVLSKRVPQLNRMARAAAEVAGHLVIKLTIDFELNLNYEMYNDKILSFVREMNQFRVDIREMGLSLQWLYSARGDFFRATSRLTSDYRNVETRDKFVMREINDRIMKVEYHFLSPYVSPRESPFRHIFWGSGSHTLSALVEHLKLRQKNSSAFNQTLLKNQLALATWTIQGAANALSGDIWDIDNEF |
| 3005 | sp|O75509|TNR21\_HUMAN | MGTSPSSSTALASCSRIARRATATMIAGSLLLLGFLSTTTAQPEQKASNLIGTYRHVDRATGQVLTCDKCPAGTYVSEHCTNTSLRVCSSCPVGTFTRHENGIEKCHDCSQPCPWPMIEKLPCAALTDRECTCPPGMFQSNATCAPHTVCPVGWGVRKKGTETEDVRCKQCARGTFSDVPSSVMKCKAYTDCLSQNLVVIKPGTKETDNVCGTLPSFSSSTSPSPGTAIFPRPEHMETHEVPSSTYVPKGMNSTESNSSASVRPKVLSSIQEGTVPDNTSSARGKEDVNKTLPNLQVVNHQQGPHHRHILKLLPSMEATGGEKSSTPIKGPKRGHPRQNLHKHFDINEHLPWMIVLFLLLVLVVIVVCSIRKSSRTLKKGPRQDPSAIVEKAGLKKSMTPTQNREKWIYYCNGHGIDILKLVAAQVGSQWKDIYQFLCNASEREVAAFSNGYTADHERAYAALQHWTIRGPEASLAQLISALRQHRRNDVVEKIRGLMEDTTQLETDKLALPMSPSPLSPSPIPSPNAKLENSALLTVEPSPQDKNKGFFVDESEPLLRCDSTSSGSSALSRNGSFITKEKKDTVLRQVRLDPCDLQPIFDDMLHFLNPEELRVIEEIPQAEDKLDRLFEIIGVKSQEASQTLLDSVYSHLPDLL |
| 3006 | sp|Q9UKE5|TNIK\_HUMAN | MASDSPARSLDEIDLSALRDPAGIFELVELVGNGTYGQVYKGRHVKTGQLAAIKVMDVTGDEEEEIKQEINMLKKYSHHRNIATYYGAFIKKNPPGMDDQLWLVMEFCGAGSVTDLIKNTKGNTLKEEWIAYICREILRGLSHLHQHKVIHRDIKGQNVLLTENAEVKLVDFGVSAQLDRTVGRRNTFIGTPYWMAPEVIACDENPDATYDFKSDLWSLGITAIEMAEGAPPLCDMHPMRALFLIPRNPAPRLKSKKWSKKFQSFIESCLVKNHSQRPATEQLMKHPFIRDQPNERQVRIQLKDHIDRTKKKRGEKDETEYEYSGSEEEEEENDSGEPSSILNLPGESTLRRDFLRLQLANKERSEALRRQQLEQQQRENEEHKRQLLAERQKRIEEQKEQRRRLEEQQRREKELRKQQEREQRRHYEEQMRREEERRRAEHEQEYIRRQLEEEQRQLEILQQQLLHEQALLLEYKRKQLEEQRQAERLQRQLKQERDYLVSLQHQRQEQRPVEKKPLYHYKEGMSPSEKPAWAKEVEERSRLNRQSSPAMPHKVANRISDPNLPPRSESFSISGVQPARTPPMLRPVDPQIPHLVAVKSQGPALTASQSVHEQPTKGLSGFQEALNVTSHRVEMPRQNSDPTSENPPLPTRIEKFDRSSWLRQEEDIPPKVPQRTTSISPALARKNSPGNGSALGPRLGSQPIRASNPDLRRTEPILESPLQRTSSGSSSSSSTPSSQPSSQGGSQPGSQAGSSERTRVRANSKSEGSPVLPHEPAKVKPEESRDITRPSRPASYKKAIDEDLTALAKELRELRIEETNRPMKKVTDYSSSSEESESSEEEEEDGESETHDGTVAVSDIPRLIPTGAPGSNEQYNVGMVGTHGLETSHADSFSGSISREGTLMIRETSGEKKRSGHSDSNGFAGHINLPDLVQQSHSPAGTPTEGLGRVSTHSQEMDSGTEYGMGSSTKASFTPFVDPRVYQTSPTDEDEEDEESSAAALFTSELLRQEQAKLNEARKISVVNVNPTNIRPHSDTPEIRKYKKRFNSEILCAALWGVNLLVGTENGLMLLDRSGQGKVYNLINRRRFQQMDVLEGLNVLVTISGKKNKLRVYYLSWLRNRILHNDPEVEKKQGWITVGDLEGCIHYKVVKYERIKFLVIALKNAVEIYAWAPKPYHKFMAFKSFADLQHKPLLVDLTVEEGQRLKVIFGSHTGFHVIDVDSGNSYDIYIPSHIQGNITPHAIVILPKTDGMEMLVCYEDEGVYVNTYGRITKDVVLQWGEMPTSVAYIHSNQIMGWGEKAIEIRSVETGHLDGVFMHKRAQRLKFLCERNDKVFFASVRSGGSSQVFFMTLNRNSMMNW |
| 3007 | sp|Q9BVC6|TM109\_HUMAN | MAASSISSPWGKHVFKAILMVLVALILLHSALAQSRRDFAPPGQQKREAPVDVLTQIGRSVRGTLDAWIGPETMHLVSESSSQVLWAISSAISVAFFALSGIAAQLLNALGLAGDYLAQGLKLSPGQVQTFLLWGAGALVVYWLLSLLLGLVLALLGRILWGLKLVIFLAGFVALMRSVPDPSTRALLLLALLILYALLSRLTGSRASGAQLEAKVRGLERQVEELRWRQRRAAKGARSVEEE |
| 3008 | sp|P48788|TNNI2\_HUMAN | MGDEEKRNRAITARRQHLKSVMLQIAATELEKEESRREAEKQNYLAEHCPPLHIPGSMSEVQELCKQLHAKIDAAEEEKYDMEVRVQKTSKELEDMNQKLFDLRGKFKRPPLRRVRMSADAMLKALLGSKHKVCMDLRANLKQVKKEDTEKERDLRDVGDWRKNIEEKSGMEGRKKMFESES |
| 3009 | sp|P00940|TPIS\_CHICK | MAPRKFFVGGNWKMNGDKKSLGELIHTLNGAKLSADTEVVCGAPSIYLDFARQKLDAKIGVAAQNCYKVPKGAFTGEISPAMIKDIGAAWVILGHSERRHVFGESDELIGQKVAHALAEGLGVIACIGEKLDEREAGITEKVVFEQTKAIADNVKDWSKVVLAYEPVWAIGTGKTATPQQAQEVHEKLRGWLKSHVSDAVAQSTRIIYGGSVTGGNCKELASQHDVDGFLVGGASLKPEFVDIINAKH |
| 3010 | sp|Q3LRV9|TRML4\_MOUSE | MAWRYSQLLLVPVQLVFLASVCCPGVWGSTVSEELHRMVGQSLSVQCQYKPKEESYVLKTWCRQTAPSKCTRVVTTSEPRKAARELQHTIWDDPEAGFFNITMTQLTEDDSAFYWCGPYYPSLREVTVLRNISLVVSPAPSTLPSQTIAPLPESTATIFMPFPVLTTSPEETTDSSINGTGHRNQSSSSPGWTSPGLLVSVQYGLLLLKALMLSVFCVLLCWRSGQGREYMAETMELSKLPHISKSLDTVSHISGYEKKANWY |
| 3011 | sp|P0AE01|TRMJ\_ECOLI | MLQNIRIVLVETSHTGNMGSVARAMKTMGLTNLWLVNPLVKPDSQAIALAAGASDVIGNAHIVDTLDEALAGCSLVVGTSARSRTLPWPMLDPRECGLKSVAEAANTPVALVFGRERVGLTNEELQKCHYHVAIAANPEYSSLNLAMAVQVIAYEVRMAWLATQENGEQVEHEETPYPLVDDLERFYGHLEQTLLATGFIRENHPGQVMNKLRRLFTRARPESQELNILRGILASIEQQNKGNKAE |
| 3012 | sp|P34709|TRA2\_CAEEL | MKLKYNKLLVSVVIVTFVTFGLLLAECFGKSIDYQEKSIFPSFVSQGFFETRTNNEEYIIEKIAQTQENGVDMRSTLHFTQHGYLLNNISNLKIKFRQKTYTLNDVCFKPHITIFQQSSSSDQNEYPHYIQRLLLEMQRLSPCLIVTPLNCFYDIYRIHGEISNWNKNTDFLNRRLRNSYIEAIGENDERPYVKSNYGPSLIKSWADHMFDLPSKSFTNSTKDALFQKIKLWLLSIEPRQKTCAASIHSCDTPLDSEHYFNICTDMQSVDNFAEKKTKFKLEDVDEEFAMNLDCVDDQEQFIEWMQELEIRKMYSHVTEKPDYPNVVNQTCDKIFHDLNSTGIEFFDGSRSFSSTKSQFDTMQTEIVLLTPEMLLSAMQHSDFVNGFESIWTIEKAEELIHEFRLALKEETEKFKENRMSKMIRVTSRVLDNTVTTKLQSFSEKQTIHFVVNVHSLIVILFTIFVWSGAPLRSAFMFFVRDALTCLLFCFVCSTDGVIVLDTELIKYIIVLTLANLYFTTRSSFCTERLSRCIQREKRFPINSNFASLITVDTMTDSRQIQYFLSTVTKYQAAQDSYSNELFERFPKNWGCTSILIFPIVFVYWYFIDSNFDKICVSVLPSFCLAAGEELFAKNMFWKEREAMQAKQRLENEEQAESITGSSLEKLFAGNKPVSNTDKANIVKKSSIIRNQKPCLQDLSPGTYDVSNFMKYPHQASRIFREKIIGLYLRILKLRTLGVILCIPAILLIVISIGLLFIPVKRETLHTDSKQDDIFIEFEIFNFSTNWKIVNQNLKQFSEDIESIGTLYTISNWQKSFERFEQETNKNASAEWNILFKWINDEPINSAVTLFSEKSSGNQTIANPFKFRLRYGFDAKNETTVIEIVQKIDELLSKCSKNLSPKAVGVLYEHYHRIAVVWNLFAFNQLTTAGIFIILLSIITFIFAITPTIKATFLFSLLVVGTQIEVAALVHLFSLDHHQIYTNLALFAGFLAAWDPFCALLRYRRRILYKSETRRTPELASKRRVLLPIVATADIAQFFVLLITAFSILAIICSIVPELNIFFVPTVILIVIQIVAVFNSIIVSIATKQMFESEVRHYLHRDLRGSTTAVRVYNLVQKQRLASSLDEPQVELDEFSIKRSSPPCRYYAPPPKYSCKKRSRSSDEDEDSDPNQPGPSNRRSPKTGNKRVRGNGDNTELYIPNRYELIVSGKSVGGNTSAAWNGPGSTLEQNMNALEECFELGVDEYDFDEHDGDEGCELVQDMLDRERNLMNKRSTAQRRESRNIEKMKKSQENLDKEKSEEKISESKKNQDDSIESPNLPGTPANLPVDEPLPPVGRLYIVEHVLPEEYRRDPLTEPPSMEDCIRAHSDPNLPPHPRADQYPASFTRPMVEYCEDIYWTHRTGQLPPGLQVPRRPYDYYHITERTPPPEDLNWVPPAESPPIPIPQQAFDLLEERRRNHREQQDEAREGDLSDPEV |
| 3013 | sp|Q14669|TRIPC\_HUMAN | MSNRPNNNPGGSLRRSQRNTAGAQPQDDSIGGRSCSSSSAVIVPQPEDPDRANTSERQKTGQVPKKDNSRGVKRSASPDYNRTNSPSSAKKPKALQHTESPSETNKPHSKSKKRHLDQEQQLKSAQSPSTSKAHTRKSGATGGSRSQKRKRTESSCVKSGSGSESTGAEERSAKPTKLASKSATSAKAGCSTITDSSSAASTSSSSSAVASASSTVPPGARVKQGKDQNKARRSRSASSPSPRRSSREKEQSKTGGSSKFDWAARFSPKVSLPKTKLSLPGSSKSETSKPGPSGLQAKLASLRKSTKKRSESPPAELPSLRRSTRQKTTGSCASTSRRGSGLGKRGAAEARRQEKMADPESNQEAVNSSAARTDEAPQGAAGAVGMTTSGESESDDSEMGRLQALLEARGLPPHLFGPLGPRMSQLFHRTIGSGASSKAQQLLQGLQASDESQQLQAVIEMCQLLVMGNEETLGGFPVKSVVPALITLLQMEHNFDIMNHACRALTYMMEALPRSSAVVVDAIPVFLEKLQVIQCIDVAEQALTALEMLSRRHSKAILQAGGLADCLLYLEFFSINAQRNALAIAANCCQSITPDEFHFVADSLPLLTQRLTHQDKKSVESTCLCFARLVDNFQHEENLLQQVASKDLLTNVQQLLVVTPPILSSGMFIMVVRMFSLMCSNCPTLAVQLMKQNIAETLHFLLCGASNGSCQEQIDLVPRSPQELYELTSLICELMPCLPKEGIFAVDTMLKKGNAQNTDGAIWQWRDDRGLWHPYNRIDSRIIEQINEDTGTARAIQRKPNPLANSNTSGYSESKKDDARAQLMKEDPELAKSFIKTLFGVLYEVYSSSAGPAVRHKCLRAILRIIYFADAELLKDVLKNHAVSSHIASMLSSQDLKIVVGALQMAEILMQKLPDIFSVYFRREGVMHQVKHLAESESLLTSPPKACTNGSGSMGSTTSVSSGTATAATHAAADLGSPSLQHSRDDSLDLSPQGRLSDVLKRKRLPKRGPRRPKYSPPRDDDKVDNQAKSPTTTQSPKSSFLASLNPKTWGRLSTQSNSNNIEPARTAGGSGLARAASKDTISNNREKIKGWIKEQAHKFVERYFSSENMDGSNPALNVLQRLCAATEQLNLQVDGGAECLVEIRSIVSESDVSSFEIQHSGFVKQLLLYLTSKSEKDAVSREIRLKRFLHVFFSSPLPGEEPIGRVEPVGNAPLLALVHKMNNCLSQMEQFPVKVHDFPSGNGTGGSFSLNRGSQALKFFNTHQLKCQLQRHPDCANVKQWKGGPVKIDPLALVQAIERYLVVRGYGRVREDDEDSDDDGSDEEIDESLAAQFLNSGNVRHRLQFYIGEHLLPYNMTVYQAVRQFSIQAEDERESTDDESNPLGRAGIWTKTHTIWYKPVREDEESNKDCVGGKRGRAQTAPTKTSPRNAKKHDELWHDGVCPSVSNPLEVYLIPTPPENITFEDPSLDVILLLRVLHAISRYWYYLYDNAMCKEIIPTSEFINSKLTAKANRQLQDPLVIMTGNIPTWLTELGKTCPFFFPFDTRQMLFYVTAFDRDRAMQRLLDTNPEINQSDSQDSRVAPRLDRKKRTVNREELLKQAESVMQDLGSSRAMLEIQYENEVGTGLGPTLEFYALVSQELQRADLGLWRGEEVTLSNPKGSQEGTKYIQNLQGLFALPFGRTAKPAHIAKVKMKFRFLGKLMAKAIMDFRLVDLPLGLPFYKWMLRQETSLTSHDLFDIDPVVARSVYHLEDIVRQKKRLEQDKSQTKESLQYALETLTMNGCSVEDLGLDFTLPGFPNIELKKGGKDIPVTIHNLEEYLRLVIFWALNEGVSRQFDSFRDGFESVFPLSHLQYFYPEELDQLLCGSKADTWDAKTLMECCRPDHGYTHDSRAVKFLFEILSSFDNEQQRLFLQFVTGSPRLPVGGFRSLNPPLTIVRKTFESTENPDDFLPSVMTCVNYLKLPDYSSIEIMREKLLIAAREGQQSFHLS |
| 3014 | sp|Q9GL65|TLR4\_BOVIN | MMARARLAAALIPATAILSCLRTESWDPCVQVVPNISYQCMELNLYKIPDNIPISTKMLDLSFNYLRHLGSHNFSSFPELQVLDLSRCEIKIIEDDTFQGLNHLSTLILTGNPIQSLAWGAFSGLSSLQKLVAVETNLVSLNDFPIGHLKNLKELNVAHNFIHSFKLPEYFSNLPNLEHLDLSNNKIQNIYYEDVKVLHQMPLLNLSLDLSLNPLDFIEPGTFKEIKLNGLTLRSNFNSSHVMKTCIQGLAGLKTNRLVLGEFKNERKLQRFDRSFLEGLCNLTIEQFRIAYLDKFSGDDTDLFNCLANVSVISLLSISLGSLQALLKDFRWQHLEIINCDFDKFPALKLSSLKKFVFTDNKDISTFTEFQLPSLQYLDLKRNHLSFKGCCSHTDFGTTNLKHLDLSFNDVITLGSNFMGLEQLEHLDFQHSTLKQINAFSAFLSLRNLRYLDISYTNIRIVFHGIFTGLVSLQTLKMAGNSFQNNLLPDIFTELTNLTVLDLSKCQLEQVAQTAFHSLSSLQVLNMSHNKLLSLDTFLYEPLHSLRILDCSFNRIMASKEQELQNLPRSLTWLNLTQNAFACVCEHQSFLQWVKDQRQLLVGAEQMMCAEPLDMEDMPVLSFRNATCQLSKTIISVSVVTVLLVSVVGVLVYKFYFHLMLLAGCKKYGRGESIYDAFVIYSSQDEDWVRNELVKNLEEGVPPFQLCLHYRDFIPGVAIAANIIQEGFHKSRKVIVVVSQHFIQSRWCIFEYEIAQTWQFLSSRAGIIFIVLQKLEKSLLRQQVELYRLLSRNTYLEWEDSVLGRHVFWRRLRKALLAGKPQSPEGTADAETNPQEATTST |
| 3015 | sp|Q6JD70|TPS5A\_MAIZE | MASPPAHRSSKAADEELPKASSTFHPSLWGSFFLTYQPPTAPQRANMKERAEVLRERVRKVLKGSTTDQLPETVNLILTLQRLGLGYYYENEIDKLLHQIYSNSDYNEKDLNLVSQRFYLLRKNGYDVPSDVFLNFKTEEGGFACAAADTRSLLSLYNAAYLRKHGEEVLDEAISSTRLRLQDLLGRLLPESPFAKEVSSSLRTPLFRRVGILEARNYIPIYEKEATRNEAVLELAKLNFNLQQLDFCEELKHCSAWWNEMIAKSKLTFVRDRIVEEYFWMNGACCDPPYSLSRIILTKITGLITIIDDMFDTHGTTEDCMKFAEAFGRWDESAIHLLPEYMKDFYILMLETFQSFEDALGPEKSYRVLYLKQAMERLVELYSKEIKWRDQDYVATMSEHLQVSAESIGANALTCSAYAGMGDMSITKETFEWALSFPQFIRTFGSFVRLSNDVVSTKREQTKDHSPSTVHCYMKEHGTTMDDACEKIKELIEDSWKDMLEQSLALKGLPKVVPQLVFDFSRTTDNMYRDRDALTSSEALKEMIQLLFVEPIPE |
| 3016 | sp|Q7Z020|TRPA1\_DROME | MTSGDKETPKREDFASALRFLMGGCAREPEMTAMAPLNLPKKWARILRMSSTPKIPIVDYLEAAESGNLDDFKRLFMADNSRIALKDAKGRTAAHQAAARNRVNILRYIRDQNGDFNAKDNAGNTPLHIAVESDAYDALDYLLSIPVDTGVLNEKKQAPVHLATELNKVKSLRVMGQYRNVIDIQQGGEHGRTALHLAAIYDHEECARILITEFDACPRKPCNNGYYPIHEAAKNASSKTMEVFFQWGEQRGCTREEMISFYDSEGNVPLHSAVHGGDIKAVELCLKSGAKISTQQHDLSTPVHLACAQGAIDIVKLMFEMQPMEKRLCLSCTDVQKMTPLHCASMFDHPDIVSYLVAEGADINALDKEHRSPLLLAASRSGWKTVHLLIRLGACISVKDAAARNVLHFVIMNGGRLTDFAEQVANCQTQAQLKLLLNEKDSMGCSPLHYASRDGHIRSLENLIRLGACINLKNNNNESPLHFAARYGRYNTVRQLLDSEKGSFIINESDGAGMTPLHISSQQGHTRVVQLLLNRGALLHRDHTGRNPLQLAAMSGYTETIELLHSVHSHLLDQVDKDGNTALHLATMENKPHAISVLMSMGCKLVYNVLDMSAIDYAIYYKYPEAALAMVTHEERANEVMALRSDKHPCVTLALIASMPKVFEAVQDKCITKANCKKDSKSFYIKYSFAFLQCPFMFAKIDEKTGESITTASPIPLPALNTMVTHGRVELLAHPLSQKYLQMKWNSYGKYFHLANLLIYSIFLVFVTIYSSLMMNNIELKAGDNKTMSQYCNMGWEQLTMNLSQNPSVASQIRLDSCEERINRTTAILFCAVVIVVYILLNSMRELIQIYQQKLHYILETVNLISWVLYISALVMVTPAFQPDGGINTIHYSAASIAVFLSWFRLLLFLQRFDQVGIYVVMFLEILQTLIKVLMVFSILIIAFGLAFYILLSKIIDPQPNHLSFSNIPMSLLRTFSMMLGELDFVGTYVNTYYRDQLKVPMTSFLILSVFMILMPILLMNLLIGLAVGDIESVRRNAQLKRLAMQVVLHTELERKLPHVWLQRVDKMELIEYPNETKCKLGFCDFILRKWFSNPFTEDSSMDVISFDNNDDYINAELERQRRKLRDISRMLEQQHHLVRLIVQKMEIKTEADDVDEGISPNELRSVVGLRSAGGNRWNSPRVRNKLRAALSFNKSM |
| 3017 | sp|Q9JJ78|TOPK\_MOUSE | MEGINNFKTPNKSEKRKSVLCSTPCVNIPASPFMQKLGFGTGVSVYLMKRSPRGLSHSPWAVKKISLLCDDHYRTVYQKRLTDEAKILKNLNHPNIIGYRAFTEASDGSLCLAMEYGGEKSLNDLIEERNKDSGSPFPAAVILRVALHMARGLKYLHQEKKLLHGDIKSSNVVIKGDFETIKICDVGVSLPLDENMTVTDPEACYIGTEPWKPKEALEENGIITDKADVFAFGLTLWEMMTLCIPHVNLPDDDVDEDATFDESDFDDEAYYAALGTRPSINMEELDDSYQKAIELFCVCTNEDPKDRPSAAHIVEALELDGQCCGLSSKH |
| 3018 | sp|Q8TBK6|ZCH10\_HUMAN | MATPMHRLIARRQAFDTELQPVKTFWILIQPSIVISEANKQHVRCQKCLEFGHWTYECTGKRKYLHRPSRTAELKKALKEKENRLLLQQSIGETNVERKAKKKRSKSVTSSSSSSSDSSASDSSSESEETSTSSSSEDSDTDESSSSSSSSASSTTSSSSSDSDSDSSSSSSSSTSTDSSSDDEPPKKKKKK |
| 3019 | sp|Q9Y397|ZDHC9\_HUMAN | MSVMVVRKKVTRKWEKLPGRNTFCCDGRVMMARQKGIFYLTLFLILGTCTLFFAFECRYLAVQLSPAIPVFAAMLFLFSMATLLRTSFSDPGVIPRALPDEAAFIEMEIEATNGAVPQGQRPPPRIKNFQINNQIVKLKYCYTCKIFRPPRASHCSICDNCVERFDHHCPWVGNCVGKRNYRYFYLFILSLSLLTIYVFAFNIVYVALKSLKIGFLETLKETPGTVLEVLICFFTLWSVVGLTGFHTFLVALNQTTNEDIKGSWTGKNRVQNPYSHGNIVKNCCEVLCGPLPPSVLDRRGILPLEESGSRPPSTQETSSSLLPQSPAPTEHLNSNEMPEDSSTPEEMPPPEPPEPPQEAAEAEK |
| 3020 | sp|Q9H0W8|SMG9\_HUMAN | MSESGHSQPGLYGIERRRRWKEPGSGGPQNLSGPGGRERDYIAPWERERRDASEETSTSVMQKTPIILSKPPAERSKQPPPPTAPAAPPAPAPLEKPIVLMKPREEGKGPVAVTGASTPEGTAPPPPAAPAPPKGEKEGQRPTQPVYQIQNRGMGTAAPAAMDPVVGQAKLLPPERMKHSIKLVDDQMNWCDSAIEYLLDQTDVLVVGVLGLQGTGKSMVMSLLSANTPEEDQRTYVFRAQSAEMKERGGNQTSGIDFFITQERIVFLDTQPILSPSILDHLINNDRKLPPEYNLPHTYVEMQSLQIAAFLFTVCHVVIVVQDWFTDLSLYRFLQTAEMVKPSTPSPSHESSSSSGSDEGTEYYPHLVFLQNKARREDFCPRKLRQMHLMIDQLMAHSHLRYKGTLSMLQCNVFPGLPPDFLDSEVNLFLVPFMDSEAESENPPRAGPGSSPLFSLLPGYRGHPSFQSLVSKLRSQVMSMARPQLSHTILTEKNWFHYAARIWDGVRKSSALAEYSRLLA |
| 3021 | sp|A8MS85|SPT61\_ARATH | MARNAISDDEEDHELEDDDGEPVHGDPAEHDENDDEEDDDDVGNEYENDGFIVNDEDEEEEEEEDEERKDSDEERQKKKKKRKKKDEGLDEDDYLLLQDNNVKFKKRQYKRLKKAQREQGNGQGESSDDEFDSRGGTRRSAEDKIKDRLFDDVDVDDPPDDVGDEEDLVVEEDVVGSEDEMADFIVDEDDEHGPPKRGNSKKKKYRQGSDITAMRDANEIFGDVDELLTIRKKGLASNQRMERRLEDEFEPTVLSEKYMTGNDDEIRQLDIPERMQISEESTGSPPVDEISIEEESNWIYAQLASQLRESDGTFDGRGFSVNKDDIAKFLELHHVQKLEIPFIAMYRKEQCRSLLDTGDFDGANQGKKPETKWHKVFWMIHDLDKKWLLLRKRKMALHGYYTKRYEEESRRVYDETRLNLNQYLFESVIKSLKVAETEREVDDVDSKFNLHFPPGEIGVDEGQYKRPKRKSQYSICSKAGLWEVANKFGYSAEQLGLALSLEKLVDELEDAKETPEEMAKNFVCAMFENSLAVLKGARHMAAVEISCEPSVKKYVRGIYMENAVVSTSPTADGNTVIDSFHQFSGIKWLREKPLSKFEGAQWLLIQKGEEEKLLQVTFKLPENYMNRLISDCNEHYLSVGVSKYAQLWNEQRKLILEDALHAFLLPSMEKEARSLLTSRAKSRLLSEYGQALWNKVSAGPYQKKEMDINLDEEAAPRVMACCWGPGKPPNTFVMLDSSGEVLDVLYAGSLTSRSQNVNDQQRKKSDQDRVLKFMMDHQPHVVALGAVNLSCTRLKDDIYEVIFQMVEEKPRDVGHGMDDLSIVYVDESLPRLYENSRISGEQLPQQSGNVRRAVALGRYLQNPLAMVATLCGPGREILSWKLHPLENFLQLDEKYGMVEQVMVDITNQVGIDINLAASHDWFFSPLQFISGLGPRKAASLQRSLVRAGSIFVRKDLIMHGLGKKVFVNAAGFLRIRRSGLAASSSQFIDLLDDTRIHPESYSLAQELAKDIYDEDVRGDSNDDEDAIEMAIEHVRDRPASLRKVVLDEYLASKKRENKKETYSNIIRELSCGFQDWRIPFKEPSPDEEFYMISGETEDTIAEGRIVQASVRRLQNGRAICVLDSGLTGMLMKEDFSDDGRDIVDLADQLKEGDILTCKIKSIQKQRYQVFLICKESEMRNNRHQHNQNVDAYYHEDRNSLQLVKEKARKEKELVRKHFKSRMIVHPRFQNITADQATEYLSDKDFGESIVRPSSRGLNFLTLTLKIYDGVYAHKEIAEGGKENKDITSLQCIGKTLTIGEDTFEDLDEVMDRYVDPLVSHLKTMLNYRKFRKGTKSEVDDLLRIEKGENPSRIVYCFGISHEHPGTFILSYIRSTNPHHEYIGLYPKGFKFRKRMFEDIDRLVAYFQRHIDDPLQESAPSIRSIAAKVPMRSPADHGSSGGSGWGSSQSEGGWKGNSDRSGSGRGGEYRNGGGRDGHPSGAPRPYGGRGRGRGRGRRDDMNSDRQDGNGDWGNNDTGTADGGWGNSGGGGWGSESAGKKTGGGSTGGWGSESGGNKSDGAGSWGSGSGGGGSGGWGNDSGGKKSSEDGGFGSGSGGGGSDWGNESGGKKSSADGGWGSESGGKKSDGEGGWGNEPSSRKSDGGGGGW |
| 3022 | sp|Q9FNN6|SRM1\_ARATH | MTVEEVSDGSVWSREDDIAFERALANNTDESEERWEKIAADVPGKSVEQIKEHYELLVEDVTRIESGCVPLPAYGSPEGSNGHAGDEGASSKKGGNSHAGESNQAGKSKSDQERRKGIAWTEDEHRLFLLGLDKYGKGDWRSISRNFVVTRTPTQVASHAQKYFIRLNSMNKDRRRSSIHDITSVGNADVSTPQGPITGQNNSNNNNNNNNNNSSPAVAGGGNKSAKQAVSQAPPGPPMYGTPAIGQPAVGTPVNLPAPPHMAYGVHAAPVPGSVVPGAAMNIGQMPYTMPRTPTAHR |
| 3023 | sp|Q64105|SPRE\_MOUSE | MEADGLGCAVCVLTGASRGFGRALAPQLARLLSPGSVMLVSARSESMLRQLKEELGAQQPDLKVVLAAADLGTEAGVQRLLSAVRELPRPEGLQRLLLINNAATLGDVSKGFLNVNDLAEVNNYWALNLTSMLCLTSGTLNAFQDSPGLSKTVVNISSLCALQPYKGWGLYCAGKAARDMLYQVLAAEEPSVRVLSYAPGPLDNDMQQLARETSKDPELRSKLQKLKSDGALVDCGTSAQKLLGLLQKDTFQSGAHVDFYD |
| 3024 | sp|P32944|SWE1\_YEAST | MSSLDEDEEDFEMLDTENLQFMGKKMFGKQAGEDESDDFAIGGSTPTNKLKFYPYSNNKLTRSTGTLNLSLSNTALSEANSKFLGKIEEEEEEEEEGKDEESVDSRIKRWSPFHENESVTTPITKRSAEKTNSPISLKQWNQRWFPKNDARTENTSSSSSYSVAKPNQSAFTSSGLVSKMSMDTSLYPAKLRIPETPVKKSPLVEGRDHKHVHLSSSKNASSSLSVSPLNFVEDNNLQEDLLFSDSPSSKALPSIHVPTIDSSPLSEAKYHAHDRHNNQTNILSPTNSLVTNSSPQTLHSNKFKKIKRARNSVILKNRELTNSLQQFKDDLYGTDENFPPPIIISSHHSTRKNPQPYQFRGRYDNDTDEEISTPTRRKSIIGATSQTHRESRPLSLSSAIVTNTTSAETHSISSTDSSPLNSKRRLISSNKLSANPDSHLFEKFTNVHSIGKGQFSTVYQVTFAQTNKKYAIKAIKPNKYNSLKRILLEIKILNEVTNQITMDQEGKEYIIDYISSWKFQNSYYIMTELCENGNLDGFLQEQVIAKKKRLEDWRIWKIIVELSLALRFIHDSCHIVHLDLKPANVMITFEGNLKLGDFGMATHLPLEDKSFENEGDREYIAPEIISDCTYDYKADIFSLGLMIVEIAANVVLPDNGNAWHKLRSGDLSDAGRLSSTDIHSESLFSDITKVDTNDLFDFERDNISGNSNNAGTSTVHNNSNINNPNMNNGNDNNNVNTAATKNRLILHKSSKIPAWVPKFLIDGESLERIVRWMIEPNYERRPTANQILQTEECLYVEMTRNAGAIIQEDDFGPKPKFFI |
| 3025 | sp|Q9P2W9|STX18\_HUMAN | MAVDITLLFRASVKTVKTRNKALGVAVGGGVDGSRDELFRRSPRPKGDFSSRAREVISHIGKLRDFLLEHRKDYINAYSHTMSEYGRMTDTERDQIDQDAQIFMRTCSEAIQQLRTEAHKEIHSQQVKEHRTAVLDFIEDYLKRVCKLYSEQRAIRVKRVVDKKRLSKLEPEPNTKTRESTSSEKVSQSPSKDSEENPATEERPEKILAETQPELGTWGDGKGEDELSPEEIQMFEQENQRLIGEMNSLFDEVRQIEGRVVEISRLQEIFTEKVLQQEAEIDSIHQLVVGATENIKEGNEDIREAIKNNAGFRVWILFFLVMCSFSLLFLDWYDS |
| 3026 | sp|P0CY24|STE20\_CANAL | MSILSENNPTQTSITDPNESSHLHNPELNSGTRVASGPGPGPEVESTPLAPPTEVMNTTSANTSSLSLGSPMHEKIKQFDQDEVDTGETNDRTIESGSSDIDDSQQSHNNNNNNNNNESNPESSEADDEKTQGMPPRMPGTFNVKGLHQGDDSDNEKQYTELTKSINKRTSKDSYSPGTLESPGTLNALETNNVSPAVIEEEQHTSSLEDLSLSLQHQNENARLSAPRSAPPQVSTSKTSSFHDMSSVISSSTSVHKIPSNPTSTRGSHLSSYKSTLDPGKPAQAAAPPPPEIDIDNLLTKSELDSETDTLSSATNSPNLLRNDTLQGIPTRDDENIDDSPRQLSQNTSATSRNTSGTSTSTVVKNSRSGTSKLTSTSTAHNQTAAITPIIPSHNKFHQQVINTNSTNSSSSLEPLGVGINSNSSPKNGKKRKSGSKVRGVFSSMFGKNKSTSSSSSSNSGSNSHSQEVNIKISTPFNAKHLAHVGIDDNGSYTGLPIEWERLLSASGITKKEQQQHPQAVMDIVAFYQDTSENPDDAAFKKFHFDNNKSSSSGWSNENTPPATPGGSNSGSGGGGGGAPSSPHRTPPSSIIEKNNVEQKVITPSQSMPTKTESKQSENQHPHEDNATQYTPRTPTSHVQEGQFIPSRPAPKPPSTPLSSMSVSHKTPSSQSLPRSDSQSDIRSSTPKSHQDISPSKIKIRSISSKSLKSMRSRKSGDKFTHIAPAPPPPSLPSIPKSKSHSASLSSQLRPATNGSTTAPIPASAAFGGENNALPRQRINEFKAHRAPPPPPSASPAPPVPPAPPANLLSEQTSEIPQQRTAPSQALADVTAPTNIYEIQQTKYQEAQQKLREKKARELEEIQRLREKNERQNRQQETGQNNADTASGGSNIAPPVPVPNKKPPSGSGGGRDAKQAALIAQKKREEKKRKNLQIIAKLKTICNPGDPNELYVDLVKIGQGASGGVFLAHDVRDKSNIVAIKQMNLEQQPKKELIINEILVMKGSSHPNIVNFIDSYLLKGDLWVIMEYMEGGSLTDIVTHSVMTEGQIGVVCRETLKGLKFLHSKGVIHRDIKSDNILLNMDGNIKITDFGFCAQINEINSKRITMVGTPYWMAPEIVSRKEYGPKVDVWSLGIMIIEMLEGEPPYLNETPLRALYLIATNGTPKLKDPESLSYDIRKFLAWCLQVDFNKRADADELLHDNFITECDDVSSLSPLVKIARLKKMSESD |
| 3027 | sp|Q4LDE5|SVEP1\_HUMAN | MWPRLAFCCWGLALVSGWATFQQMSPSRNFSFRLFPETAPGAPGSIPAPPAPGDEAAGSRVERLGQAFRRRVRLLRELSERLELVFLVDDSSSVGEVNFRSELMFVRKLLSDFPVVPTATRVAIVTFSSKNYVVPRVDYISTRRARQHKCALLLQEIPAISYRGGGTYTKGAFQQAAQILLHARENSTKVVFLITDGYSNGGDPRPIAASLRDSGVEIFTFGIWQGNIRELNDMASTPKEEHCYLLHSFEEFEALARRALHEDLPSGSFIQDDMVHCSYLCDEGKDCCDRMGSCKCGTHTGHFECICEKGYYGKGLQYECTACPSGTYKPEGSPGGISSCIPCPDENHTSPPGSTSPEDCVCREGYRASGQTCELVHCPALKPPENGYFIQNTCNNHFNAACGVRCHPGFDLVGSSIILCLPNGLWSGSESYCRVRTCPHLRQPKHGHISCSTREMLYKTTCLVACDEGYRLEGSDKLTCQGNSQWDGPEPRCVERHCSTFQMPKDVIISPHNCGKQPAKFGTICYVSCRQGFILSGVKEMLRCTTSGKWNVGVQAAVCKDVEAPQINCPKDIEAKTLEQQDSANVTWQIPTAKDNSGEKVSVHVHPAFTPPYLFPIGDVAIVYTATDLSGNQASCIFHIKVIDAEPPVIDWCRSPPPVQVSEKVHAASWDEPQFSDNSGAELVITRSHTQGDLFPQGETIVQYTATDPSGNNRTCDIHIVIKGSPCEIPFTPVNGDFICTPDNTGVNCTLTCLEGYDFTEGSTDKYYCAYEDGVWKPTYTTEWPDCAKKRFANHGFKSFEMFYKAARCDDTDLMKKFSEAFETTLGKMVPSFCSDAEDIDCRLEENLTKKYCLEYNYDYENGFAIGPGGWGAANRLDYSYDDFLDTVQETATSIGNAKSSRIKRSAPLSDYKIKLIFNITASVPLPDERNDTLEWENQQRLLQTLETITNKLKRTLNKDPMYSFQLASEILIADSNSLETKKASPFCRPGSVLRGRMCVNCPLGTYYNLEHFTCESCRIGSYQDEEGQLECKLCPSGMYTEYIHSRNISDCKAQCKQGTYSYSGLETCESCPLGTYQPKFGSRSCLSCPENTSTVKRGAVNISACGVPCPEGKFSRSGLMPCHPCPRDYYQPNAGKAFCLACPFYGTTPFAGSRSITECSSFSSTFSAAEESVVPPASLGHIKKRHEISSQVFHECFFNPCHNSGTCQQLGRGYVCLCPLGYTGLKCETDIDECSPLPCLNNGVCKDLVGEFICECPSGYTGQRCEENINECSSSPCLNKGICVDGVAGYRCTCVKGFVGLHCETEVNECQSNPCLNNAVCEDQVGGFLCKCPPGFLGTRCGKNVDECLSQPCKNGATCKDGANSFRCLCAAGFTGSHCELNINECQSNPCRNQATCVDELNSYSCKCQPGFSGKRCETEQSTGFNLDFEVSGIYGYVMLDGMLPSLHALTCTFWMKSSDDMNYGTPISYAVDNGSDNTLLLTDYNGWVLYVNGREKITNCPSVNDGRWHHIAITWTSANGIWKVYIDGKLSDGGAGLSVGLPIPGGGALVLGQEQDKKGEGFSPAESFVGSISQLNLWDYVLSPQQVKSLATSCPEELSKGNVLAWPDFLSGIVGKVKIDSKSIFCSDCPRLGGSVPHLRTASEDLKPGSKVNLFCDPGFQLVGNPVQYCLNQGQWTQPLPHCERISCGVPPPLENGFHSADDFYAGSTVTYQCNNGYYLLGDSRMFCTDNGSWNGVSPSCLDVDECAVGSDCSEHASCLNVDGSYICSCVPPYTGDGKNCAEPIKCKAPGNPENGHSSGEIYTVGAEVTFSCQEGYQLMGVTKITCLESGEWNHLIPYCKAVSCGKPAIPENGCIEELAFTFGSKVTYRCNKGYTLAGDKESSCLANSSWSHSPPVCEPVKCSSPENINNGKYILSGLTYLSTASYSCDTGYSLQGPSIIECTASGIWDRAPPACHLVFCGEPPAIKDAVITGNNFTFRNTVTYTCKEGYTLAGLDTIECLADGKWSRSDQQCLAVSCDEPPIVDHASPETAHRLFGDIAFYYCSDGYSLADNSQLLCNAQGKWVPPEGQDMPRCIAHFCEKPPSVSYSILESVSKAKFAAGSVVSFKCMEGFVLNTSAKIECMRGGQWNPSPMSIQCIPVRCGEPPSIMNGYASGSNYSFGAMVAYSCNKGFYIKGEKKSTCEATGQWSSPIPTCHPVSCGEPPKVENGFLEHTTGRIFESEVRYQCNPGYKSVGSPVFVCQANRHWHSESPLMCVPLDCGKPPPIQNGFMKGENFEVGSKVQFFCNEGYELVGDSSWTCQKSGKWNKKSNPKCMPAKCPEPPLLENQLVLKELTTEVGVVTFSCKEGHVLQGPSVLKCLPSQQWNDSFPVCKIVLCTPPPLISFGVPIPSSALHFGSTVKYSCVGGFFLRGNSTTLCQPDGTWSSPLPECVPVECPQPEEIPNGIIDVQGLAYLSTALYTCKPGFELVGNTTTLCGENGHWLGGKPTCKAIECLKPKEILNGKFSYTDLHYGQTVTYSCNRGFRLEGPSALTCLETGDWDVDAPSCNAIHCDSPQPIENGFVEGADYSYGAIIIYSCFPGFQVAGHAMQTCEESGWSSSIPTCMPIDCGLPPHIDFGDCTKLKDDQGYFEQEDDMMEVPYVTPHPPYHLGAVAKTWENTKESPATHSSNFLYGTMVSYTCNPGYELLGNPVLICQEDGTWNGSAPSCISIECDLPTAPENGFLRFTETSMGSAVQYSCKPGHILAGSDLRLCLENRKWSGASPRCEAISCKKPNPVMNGSIKGSNYTYLSTLYYECDPGYVLNGTERRTCQDDKNWDEDEPICIPVDCSSPPVSANGQVRGDEYTFQKEIEYTCNEGFLLEGARSRVCLANGSWSGATPDCVPVRCATPPQLANGVTEGLDYGFMKEVTFHCHEGYILHGAPKLTCQSDGNWDAEIPLCKPVNCGPPEDLAHGFPNGFSFIHGGHIQYQCFPGYKLHGNSSRRCLSNGSWSGSSPSCLPCRCSTPVIEYGTVNGTDFDCGKAARIQCFKGFKLLGLSEITCEADGQWSSGFPHCEHTSCGSLPMIPNAFISETSSWKENVITYSCRSGYVIQGSSDLICTEKGVWSQPYPVCEPLSCGSPPSVANAVATGEAHTYESEVKLRCLEGYTMDTDTDTFTCQKDGRWFPERISCSPKKCPLPENITHILVHGDDFSVNRQVSVSCAEGYTFEGVNISVCQLDGTWEPPFSDESCSPVSCGKPESPEHGFVVGSKYTFESTIIYQCEPGYELEGNRERVCQENRQWSGGVAICKETRCETPLEFLNGKADIENRTTGPNVVYSCNRGYSLEGPSEAHCTENGTWSHPVPLCKPNPCPVPFVIPENALLSEKEFYVDQNVSIKCREGFLLQGHGIITCNPDETWTQTSAKCEKISCGPPAHVENAIARGVHYQYGDMITYSCYSGYMLEGFLRSVCLENGTWTSPPICRAVCRFPCQNGGICQRPNACSCPEGWMGRLCEEPICILPCLNGGRCVAPYQCDCPPGWTGSRCHTAVCQSPCLNGGKCVRPNRCHCLSSWTGHNCSRKRRTGF |
| 3028 | sp|O88983|STX8\_MOUSE | MAPDPWFSTYDSTCQIAQEIAEKIQERNQCERRGEKTPKLTLTIRTLLKNLKVKIDLLKDLLLRAVSTRQITQLEGDRRQNLLDDLVTRERLLLASFKNEGAEPDLIRSSLMSEEAKRGTPNPWLCEEPEETRGLGFDEIRQQQQKIIQEQDAGLDALSSIISRQKQMGQEIGNELDEQNEIIDDLANLVENTDEKLRTEARRVTLVDRKSTSCGMIMVILLLLVAIVVVAVWPTN |
| 3029 | sp|O17185|SUP9\_CAEEL | MKRQNIRTLSLIVCTLTYLLVGAAVFDALETENEILQRKLVQRVREKLKTKYNMSNADYEILEATIVKSVPHKAGYQWKFSGAFYFATTVITTIGYGHSTPMTDAGKVFCMLYALAGIPLGLIMFQSIGERMNTFAAKLLRFIRRAAGKQPIVTSSDLIIFCTGWGGLLIFGGAFMFSSYENWTYFDAVYYCFVTLTTIGFGDYVALQKRGSLQTQPEYVFFSLVFILFGLTVISAAMNLLVLRFLTMNTEDERRDEQEAILAAQGLVRVGDPTADDDFGRLPLSDNVSLASCSCYQLPDEKLRHRHRKHTEPHGGPPTFSGMTTRPKY |
| 3030 | sp|O00204|ST2B1\_HUMAN | MDGPAEPQIPGLWDTYEDDISEISQKLPGEYFRYKGVPFPVGLYSLESISLAENTQDVRDDDIFIITYPKSGTTWMIEIICLILKEGDPSWIRSVPIWERAPWCETIVGAFSLPDQYSPRLMSSHLPIQIFTKAFFSSKAKVIYMGRNPRDVVVSLYHYSKIAGQLKDPGTPDQFLRDFLKGEVQFGSWFDHIKGWLRMKGKDNFLFITYEELQQDLQGSVERICGFLGRPLGKEALGSVVAHSTFSAMKANTMSNYTLLPPSLLDHRRGAFLRKGVCGDWKNHFTVAQSEAFDRAYRKQMRGMPTFPWDEDPEEDGSPDPEPSPEPEPKPSLEPNTSLEREPRPNSSPSPSPGQASETPHPRPS |
| 3031 | sp|Q9TUZ1|STA5A\_PIG | MAGWIQAQQLQGDALRQMQVLYGQHFPIEVRHYLAQWIESQPWDAIDVDNPQDRAQATQLLENLVQELQKKAEHQVGEDGFLLKIKLGHYATQLQNTYDRCPMELVRCIRHILYNEQRLVREANNGSSSAGILVDAMSQKHLQINQTFEELRLVTQDTENELKKLQQTQEYFIIQYQESLRIQAQFAQLAQLNPQECLSRETALQQKQVTLEAWLQREAQTLQQYRVELAEKHQKTLQLLRKQQTIILDDELIQWKRRQQLAGNGGPPEGSLDVLQSWCEKLAEIIWQNRQQIRRAEHLCQQLPIPGPVEEMLAEVNATITDIISALVTSTFIIEKQPPQVLKTQTKFAATVRLLVGGKLNVHMNPPQVKATIISEQQAKSLLKNESTRNECSGEILNNCCVMEYHQATGTLSAHFRNMSLKRIKRADRRGAESVTEEKFTVLFESQFSVGSNELVFQVKTLSLPVVVIVHGSQDHNATATVLWDNAFAEPGRVPFAVPDKVLWPQLCEALNMKFKAEVQSNRGLTKENLVFLAQKLFNSSSSHLEDYSGMSVSWSQFNRENLPGWNYTFWQWFDGVMEVLKKHHKPHWNDGAILGFVNKQQAHDLLINKPDGTFLLRFSDSEIGGITIAWKFDSPDRNLWNLKPFTTRDFSIRSLADRLGDLSYLIYVFPDRPKDEVFSKYYTPVLAPASAAKAVDGYVKPQIKQVVPEFVSASSDSAGGNATYMDQAPSPAVCPQAHYSIYPQNPDPVLDQDGEFDLDETMDVARHVEELLRRPMDSLDPRLSPPAGLFASTRGSLS |
| 3032 | sp|A4K2Q5|STK4\_OTOGA | METVQLRNPPRRQLKKLDEDSLTKQPEEVFDVLEKLGEGSYGSVYKAIHKETGQIVAIKQVPVESDLQEIIKEISIMQQCDSPHVVKYYGSYFKNTDLWIVMEYCGAGSVSDIIRLRNKTLTEDEIATILQSTLKGLEYLHFMRKIHRDIKAGNILLNTEGHAKLADFGVAGQLTDTMAKRNTVIGTPFWMAPEVIQEIGYNCVADIWSLGITAIEMAEGKPPYADIHPMRAIFMIPTNPPPTFRKPELWSDNFTDFVRQCLVKSPDQRATATQLLQHPFVKSAKGVSILRDLINEAMDVKLKRQEAQQREVDQDDEENSEEDELDSGTMVRAVGDEMGTVRVASTMSDGANTMIEHDDTLPSQLGTMVINADDEEEEGTMKRRDETMQPAKPSFLEYFEQKEKENQINSFGKSVPGPLKNSSDWKVPQDGDYEFLKSWTVEDLQKRLLALDPMMEQEIEEIRQKYQSKRQPILDAIEAKKRRQQNF |
| 3033 | sp|Q54BD4|STATC\_DICDI | MSNNNPKKRPLDAISNTFEVKQEEPEFSSDGFNTTNDDLMSLMTFLDNGTGQQNQQNQQNQQPQPQPQPQPQLPQPQSQQPIYNSNTTTVTVKTEGIATSPLSNASSPISTNNNINNNTNNNNNNNNNNNNNNNNNNNNNNNINTATPPAIGVQQNSNIPYSYPIYTDVTGQQTQHQQNIGQNSVNIDPYFQTIDGAQIQQQQLLQQQLQPIQQVNNPQIDQAQIQQQQAQQIQQQQAQIQAQQAQIQQQQLEQQHLQQQQFQFQQQQQQQQQQQQQQQQQQQQQQQQQQQQQQQQHHQQQQQQQQHQQQQQHQQQQQHQQHQQQQHQQHQQIHQNHQNQLNHQNQLNNQNQLNNQNQLNNQNQLNHQNQLNQPTQPQMQQIELPILHQLPVEPQHLHPIPTHINNNGNNNNNNNNNGSNSSNSSNGIGSPDDIIEPNILSSIQHCNNNNLPLPDHLLINTPYGNVLQPHQQIINECLKLHLAQKEQLDKMKIVQKQVLAHPQKETFQMLDNEQNTLKKQIDAEITSLQQIDQTFVLSPPEIRNVIFLLHELTIQSIQLELYHEELQLLVRPQNPPPTIAALVVIEQPFPMVITKCKPLEDDPVVVQLLCGTRTELQMIGKVRATMIVENQQGSKTSSSPKTIETEVVSMDETNRLAKYHLKFLNGTRKNPVTLKFGMQVQVVGGTAVNIESPPTSPFIVITNECQYEESDGTLLKKDSFGNNNEIPWASYANKLQRHFLRATRQDFMKPTRYLSRHELMYIHHQFFGSKPMIPQSSFDSFWIWFGKGLQKLRYQRHVCSMWQSGLIYGFISRQSVEEALRNEEQGTFLIRFSERHAGHFAVGYKVDDPDPEKRIRHYLVKADDTAGAKKTLPDFLSECPQFTKILQLTIDVSTGEPRLRNFPKDVVLEPYYSKRETLPATNGYDSLPTIL |
| 3034 | sp|Q13888|TF2H2\_HUMAN | MDEEPERTKRWEGGYERTWEILKEDESGSLKATIEDILFKAKRKRVFEHHGQVRLGMMRHLYVVVDGSRTMEDQDLKPNRLTCTLKLLEYFVEEYFDQNPISQIGIIVTKSKRAEKLTELSGNPRKHITSLKKAVDMTCHGEPSLYNSLSIAMQTLKHMPGHTSREVLIIFSSLTTCDPSNIYDLIKTLKAAKIRVSVIGLSAEVRVCTVLARETGGTYHVILDESHYKELLTHHVSPPPASSSSECSLIRMGFPQHTIASLSDQDAKPSFSMAHLDGNTEPGLTLGGYFCPQCRAKYCELPVECKICGLTLVSAPHLARSYHHLFPLDAFQEIPLEEYNGERFCYGCQGELKDQHVYVCAVCQNVFCVDCDVFVHDSLHCCPGCIHKIPAPSGV |
| 3035 | sp|O14894|T4S5\_HUMAN | MCTGKCARCVGLSLITLCLVCIVANALLLVPNGETSWTNTNHLSLQVWLMGGFIGGGLMVLCPGIAAVRAGGKGCCGAGCCGNRCRMLRSVFSSAFGVLGAIYCLSVSGAGLRNGPRCLMNGEWGYHFEDTAGAYLLNRTLWDRCEAPPRVVPWNVTLFSLLVAASCLEIVLCGIQLVNATIGVFCGDCRKKQDTPH |
| 3036 | sp|O76070|SYUG\_HUMAN | MDVFKKGFSIAKEGVVGAVEKTKQGVTEAAEKTKEGVMYVGAKTKENVVQSVTSVAEKTKEQANAVSEAVVSSVNTVATKTVEEAENIAVTSGVVRKEDLRPSAPQQEGEASKEKEEVAEEAQSGGD |
| 3037 | sp|Q8N8B7|TEANC\_HUMAN | MSDKNQIAARASLIEQLMSKRNFEDLGNHLTELETIYVTKEHLQETDVVRAVYRVLKNCPSVALKKKAKCLLSKWKAVYKQTHSKARNSPKLFPVRGNKEENSGPSHDPSQNETLGICSSNSLSSQDVAKLSEMIVPENRAIQLKPKEEHFGDGDPESTGKRSSELLDPTTPMRTKCIELLYAALTSSSTDQPKADLWQNFAREIEEHVFTLYSKNIKKYKTCIRSKVANLKNPRNSHLQQNLLSGTTSPREFAEMTVMEMANKELKQLRASYTESCIQEHYLPQVIDGTQTNKIKCRRCEKYNCKVTVIDRGTLFLPSWVRNSNPDEQMMTYVICNECGEQWYHSKWVCW |
| 3038 | sp|Q8BZ64|TECT1\_MOUSE | MGSRGLPPLLLVLLNCYTSSSTQVIAIPAAATPAVTKEDLNSTKATPTTLQPSLSPRTPGTPRAPERSGPRPTPVTDVAALCVCDLLPAQCDVNCCCDPDCSPADFSIFSACSVPVVTGDRQFCSQKAAFYSMNLTADPPHRDFKLIDQINPSVFCIHISNYKPALSFANPEVPDENNFDRLMQTSGGFTLSAESAVPSTAASDGPQPTKYEYGAPLQTAGASSGSFLKLPSPLTSSLCADQNPAAFLVSQAFECSRRVDIEQCEGMEALSMAHYSSPAILRVPNSMTQVSIKIQSVMYRSLNHTLTQLEGHGVLRPSLVSTGQDRLCSNVVLQVKYSLLYTATGQIHEAGLSLVLGTLSSAVSLLQQKFEIHFIQHGTKPVPLSGNPGYRVGLPLAAGFQPQKGSGIIQTTNRQGQFTILRSTSQQDCLASEGLRTPVLFGYNVQSGCQLRLTGTIPCGLLAQKVQDLLRGQAFPDYVAAFGNSRAQDVQDWVPVHFVTYSSNMKGSCQLPVALAIEVKWTKYGSLLNPQARIVNVTAQLVSVPEPLPGPERTVVISTAVTFVDVSAPAEAGFRAPPTINARLPFSFFFPFV |
| 3039 | sp|Q9Y2I9|TBC30\_HUMAN | MDVLPTGGGRPGLRTELEFRGGGGEARLESQEEETIPAAPPAPRLRGAAERPRRSRDTWDGDEDTEPGEACGGRTSRTASLVSGLLNELYSCTEEEEAAGGGRGAEGRRRRRDSLDSSTEASGSDVVLGGRSGAGDSRVLQELQERPSQRHQMLYLRQKDANELKTILRELKYRIGIQSAKLLRHLKQKDRLLHKVQRNCDIVTACLQAVSQKRRVDTKLKFTLEPSLGQNGFQQWYDALKAVARLSTGIPKEWRRKVWLTLADHYLHSIAIDWDKTMRFTFNERSNPDDDSMGIQIVKDLHRTGCSSYCGQEAEQDRVVLKRVLLAYARWNKTVGYCQGFNILAALILEVMEGNEGDALKIMIYLIDKVLPESYFVNNLRALSVDMAVFRDLLRMKLPELSQHLDTLQRTANKESGGGYEPPLTNVFTMQWFLTLFATCLPNQTVLKIWDSVFFEGSEIILRVSLAIWAKLGEQIECCETADEFYSTMGRLTQEMLENDLLQSHELMQTVYSMAPFPFPQLAELREKYTYNITPFPATVKPTSVSGRHSKARDSDEENDPDDEDAVVNAVGCLGPFSGFLAPELQKYQKQIKEPNEEQSLRSNNIAELSPGAINSCRSEYHAAFNSMMMERMTTDINALKRQYSRIKKKQQQQVHQVYIRADKGPVTSILPSQVNSSPVINHLLLGKKMKMTNRAAKNAVIHIPGHTGGKISPVPYEDLKTKLNSPWRTHIRVHKKNMPRTKSHPGCGDTVGLIDEQNEASKTNGLGAAEAFPSGCTATAGREGSSPEGSTRRTIEGQSPEPVFGDADVDVSAVQAKLGALELNQRDAAAETELRVHPPCQRHCPEPPSAPEENKATSKAPQGSNSKTPIFSPFPSVKPLRKSATARNLGLYGPTERTPTVHFPQMSRSFSKPGGGNSGTKKR |
| 3040 | sp|Q9UHD2|TBK1\_HUMAN | MQSTSNHLWLLSDILGQGATANVFRGRHKKTGDLFAIKVFNNISFLRPVDVQMREFEVLKKLNHKNIVKLFAIEEETTTRHKVLIMEFCPCGSLYTVLEEPSNAYGLPESEFLIVLRDVVGGMNHLRENGIVHRDIKPGNIMRVIGEDGQSVYKLTDFGAARELEDDEQFVSLYGTEEYLHPDMYERAVLRKDHQKKYGATVDLWSIGVTFYHAATGSLPFRPFEGPRRNKEVMYKIITGKPSGAISGVQKAENGPIDWSGDMPVSCSLSRGLQVLLTPVLANILEADQEKCWGFDQFFAETSDILHRMVIHVFSLQQMTAHKIYIHSYNTATIFHELVYKQTKIISSNQELIYEGRRLVLEPGRLAQHFPKTTEENPIFVVSREPLNTIGLIYEKISLPKVHPRYDLDGDASMAKAITGVVCYACRIASTLLLYQELMRKGIRWLIELIKDDYNETVHKKTEVVITLDFCIRNIEKTVKVYEKLMKINLEAAELGEISDIHTKLLRLSSSQGTIETSLQDIDSRLSPGGSLADAWAHQEGTHPKDRNVEKLQVLLNCMTEIYYQFKKDKAERRLAYNEEQIHKFDKQKLYYHATKAMTHFTDECVKKYEAFLNKSEEWIRKMLHLRKQLLSLTNQCFDIEEEVSKYQEYTNELQETLPQKMFTASSGIKHTMTPIYPSSNTLVEMTLGMKKLKEEMEGVVKELAENNHILERFGSLTMDGGLRNVDCL |
| 3041 | sp|Q6ZT21|TMPPE\_HUMAN | MAIFRQLSLGAKATLAAVTVFVSMIASRSYLAESLELRAWRWLLRLQLALFVNSLLLIGSLYIWRSTVSNLCHSPAAESTCFQLWKVVVLAFLALAHSSFFTMFFLVAEEPYLFSLAAYSCLGAYIIMLFFLFILSGMEQAYQLLAWRSGRVVGSLEKTRKLVLRPALAVGVTAVLSVAGILNAAQPPAVKTVEVPIHQLPASMNNLKIVLLSDIHLGPTVGRTKMEMFVRMVNVLEPDITVIVGDLSDSEASVLRTAVAPLGQLHSHLGAYFVTGNHEYYTSDVSNWFALLESLHVQPLHNENVKISATRAQRGGGGSGSGSEDEDWICLAGVDDIEADILHYSGHGMDLDKALEGCSPDHTIILLAHQPLAAKRALQARPDINLILSGHTHAGQIFPLNVAAYLLNPFFAGLYQVAQATFVYVSPGTAYYGIPMRLGSRAEITELILQRSP |
| 3042 | sp|Q9JJ11|TACC3\_MOUSE | MSLHVLNDENVPNEKSSQCRDFQFLPPELTGRSSVLCLSQKENVPPQSQAKATNVTFQTPPRDPQTHRILSPNMTNKREAPFGLQNDHCVFLQKENQRPLAPVDDAPVVQMAAEILRAEGELQEGILTSSSLSASTSLLDSELVTPPIEPVLEPSHQGLEPVLESELVTPPVEPVLEPSHQELEPVLESELVTPPIEPVLEPSHQGLEPVLDSELVTPPIEPVLEPSHQGLEPVLESELVTPPIEPVLEPSHQGLEPVLDSELVTPPIEPVLEPSHQGLEPVLDSELVTPPIEPLLEPSHQGLEPVVDLKEESFRDPSEVLGTGAEVDYLEQFGTSSFKESAWRKQSLYVKFDPLLKDSPLRPMPVAPITNSTQDTEEESGSGKPTEAELVNLDFLGDLDVPVSAPTPVWSLEPRGLLPAEPIVDVLKYSQKDLDAVVNVMQQENLELKSKYEDLNTKYLEMGKSVDEFEKIAYKSLEEAEKQRELKEIAEDKIQKVLKERDQLNADLNSMEKSFSDLFKRFEKRKEVIEGYQKNEESLKKYVGECIVKIEKEGQRYQALKIHAEEKLRLANEEIAQVHSKAQAEVLALQASLRKAQMQNHSLEMTLEQKTKEIDELTRICDDLISKMEKI |
| 3043 | sp|P41835|THI6\_YEAST | MVFTKEEVDYSLYLVTDSTMLPPGTTLCSQVEAGLKNGVTLVQIREKDIETKNFVAEALEVQKICKKYNVPLIINDRIDVAMAIDADGVHVGQDDMPIPMVRKLLGPSKILGWSVGKPSEVETLAKWGPDMVDYIGVGTLFPTSTKKNPKKSPMGPQGAIAILDALEEFKATWCRTVGIGGLHPDNIQRVLCQCVASNGKRSLDGISLVSDIMAAPDACAATKRLRGLLDATRYQFVECELNNTFPTTTSIQNVISQVSNNRPLVQHITNKVHQNFGANVTLALGSSPIMSEIESEVSELARIPNASLLLNTGSVAPIEMLKAAINAYNEVNRPITFDPVGYSATETRLCLNNTLLTYGQFACIKGNCSEILSLAKLNNHKMKGVDSSSGKTNIDTLVRATQIVAFQYRTVAVCTGEFDCVADGTFGGEYKLSSGTEGITAEDLPCVIIEDGPIPIMGDITASGCSLGSTIASFIGGLDSTGKLFDAVVGAVLLYKSAGKLASTRCQGSGSFHVELIDALYQLFHENKPEKWSASLKKFK |
| 3044 | sp|Q8WY91|THAP4\_HUMAN | MVICCAAVNCSNRQGKGEKRAVSFHRFPLKDSKRLIQWLKAVQRDNWTPTKYSFLCSEHFTKDSFSKRLEDQHRLLKPTAVPSIFHLTEKKRGAGGHGRTRRKDASKATGGVRGHSSAATSRGAAGWSPSSSGNPMAKPESRRLKQAALQGEATPRAAQEAASQEQAQQALERTPGDGLATMVAGSQGKAEASATDAGDESATSSIEGGVTDKSGISMDDFTPPGSGACKFIGSLHSYSFSSKHTRERPSVPREPIDRKRLKKDVEPSCSGSSLGPDKGLAQSPPSSSLTATPQKPSQSPSAPPADVTPKPATEAVQSEHSDASPMSINEVILSASGACKLIDSLHSYCFSSRQNKSQVCCLREQVEKKNGELKSLRQRVSRSDSQVRKLQEKLDELRRVSVPYPSSLLSPSREPPKMNPVVEPLSWMLGTWLSDPPGAGTYPTLQPFQYLEEVHISHVGQPMLNFSFNSFHPDTRKPMHRECGFIRLKPDTNKVAFVSAQNTGVVEVEEGEVNGQELCIASHSIARISFAKEPHVEQITRKFRLNSEGKLEQTVSMATTTQPMTQHLHVTYKKVTP |
| 3045 | sp|O08314|TGT\_HELPY | MDFQLQATDNNARAGLLNLAHSQVATPVFMPVGTQGCIKSLDATDAQEILGAKLILANTYHMYLRPGEKVVEELGGLHRFAQFYGSFLTDSGGFQAFSLSDNVKLQEDGIVFKSHIDGSKHLFTPAKVLDIQYSLNSDIMMVLDDLVGLPAPLKRLEESIKRSAKWANMSLEYHKEKNRPSNNLFAIIQGGTHLKMRSLSVGLTHEGFDGYAIGGLAVGESADEMLETIAHTAPLLPKDKPRYLMGVGTPENILDAISLGVDMFDCVMPTRNARNATLFTHSGKISIKNAPYKLDNTPIEENCACYACKRYSKAYLHHLFRAKELTYARLASLHNLHFYLELVKNARNAILEKRFLSFKKEFLEKYNSRSH |
| 3046 | sp|P39594|THIE\_BACSU | MTRISREMMKELLSVYFIMGSNNTKADPVTVVQKALKGGATLYQFREKGGDALTGEARIKFAEKAQAACREAGVPFIVNDDVELALNLKADGIHIGQEDANAKEVRAAIGDMILGVSAHTMSEVKQAEEDGADYVGLGPIYPTETKKDTRAVQGVSLIEAVRRQGISIPIVGIGGITIDNAAPVIQAGADGVSMISAISQAEDPESAARKFREEIQTYKTGR |
| 3047 | sp|P43698|TITF1\_CANLF | MSMSPKHTTPFSVSDILSPLEESYKKVGMEGGGLGAPLAAYRQGQAAPPAAAMQQHAVGHHGAVTAAYHMTAAGVPQLSHSAVGGYCNGNLGNMSELPPYQDTMRNSASGPGWYGANPDPRFPAISRFMGPASGMNMSGMGGLGSLGDVSKNMAPLPSAPRRKRRVLFSQAQVYELERRFKQQKYLSAPEREHLASMIHLTPTQVKIWFQNHRYKMKRQAKDKAAQQQLQQDSGGGGGGGGAGCPQQQQAQQQSPRRVAVPVLVKDGKPCQAGAPAPGAGSLQGHAQQQAQQQAQAAQAAAAAISVGSGGPGLGAHPGHQPGSAGQSPDLAHHAASPAALQGQVSSLSHLNSSGSDYGTMSCSTLLYGRTW |
| 3048 | sp|Q13009|TIAM1\_HUMAN | MGNAESQHVEHEFYGEKHASLGRKHTSRSLRLSHKTRRTRHASSGKVIHRNSEVSTRSSSTPSIPQSLAENGLEPFSQDGTLEDFGSPIWVDRVDMGLRPVSYTDSSVTPSVDSSIVLTAASVQSMPDTEESRLYGDDATYLAEGGRRQHSYTSNGPTFMETASFKKKRSKSADIWREDSLEFSLSDLSQEHLTSNEEILGSAEEKDCEEARGMETRASPRQLSTCQRANSLGDLYAQKNSGVTANGGPGSKFAGYCRNLVSDIPNLANHKMPPAAAEETPPYSNYNTLPCRKSHCLSEGATNPQISHSNSMQGRRAKTTQDVNAGEGSEFADSGIEGATTDTDLLSRRSNATNSSYSPTTGRAFVGSDSGSSSTGDAARQGVYENFRRELEMSTTNSESLEEAGSAHSDEQSSGTLSSPGQSDILLTAAQGTVRKAGALAVKNFLVHKKNKKVESATRRKWKHYWVSLKGCTLFFYESDGRSGIDHNSIPKHAVWVENSIVQAVPEHPKKDFVFCLSNSLGDAFLFQTTSQTELENWITAIHSACATAVARHHHKEDTLRLLKSEIKKLEQKIDMDEKMKKMGEMQLSSVTDSKKKKTILDQIFVWEQNLEQFQMDLFRFRCYLASLQGGELPNPKRLLAFASRPTKVAMGRLGIFSVSSFHALVAARTGETGVRRRTQAMSRSASKRRSRFSSLWGLDTTSKKKQGRPSINQVFGEGTEAVKKSLEGIFDDIVPDGKREKEVVLPNVHQHNPDCDIWVHEYFTPSWFCLPNNQPALTVVRPGDTARDTLELICKTHQLDHSAHYLRLKFLIENKMQLYVPQPEEDIYELLYKEIEICPKVTQSIHIEKSDTAADTYGFSLSSVEEDGIRRLYVNSVKETGLASKKGLKAGDEILEINNRAADALNSSMLKDFLSQPSLGLLVRTYPELEEGVELLESPPHRVDGPADLGESPLAFLTSNPGHSLCSEQGSSAETAPEETEGPDLESSDETDHSSKSTEQVAAFCRSLHEMNPSDQSPSPQDSTGPQLATMRQLSDADKLRKVICELLETERTYVKDLNCLMERYLKPLQKETFLTQDELDVLFGNLTEMVEFQVEFLKTLEDGVRLVPDLEKLEKVDQFKKVLFSLGGSFLYYADRFKLYSAFCASHTKVPKVLVKAKTDTAFKAFLDAQNPKQQHSSTLESYLIKPIQRILKYPLLLRELFALTDAESEEHYHLDVAIKTMNKVASHINEMQKIHEEFGAVFDQLIAEQTGEKKEVADLSMGDLLLHTTVIWLNPPASLGKWKKEPELAAFVFKTAVVLVYKDGSKQKKKLVGSHRLSIYEDWDPFRFRHMIPTEALQVRALASADAEANAVCEIVHVKSESEGRPERVFHLCCSSPESRKDFLKAVHSILRDKHRRQLLKTESLPSSQQYVPFGGKRLCALKGARPAMSRAVSAPSKSLGRRRRRLARNRFTIDSDAVSASSPEKESQQPPGGGDTDRWVEEQFDLAQYEEQDDIKETDILSDDDEFCESVKGASVDRDLQERLQATSISQRERGRKTLDSHASRMAQLKKQAALSGINGGLESASEEVIWVRREDFAPSRKLNTEI |
| 3049 | sp|Q9BZW4|TM6S2\_HUMAN | MDIPPLAGKIAALSLSALPVSYALNHVSALSHPLWVALMSALILGLLFVAVYSLSHGEVSYDPLYAVFAVFAFTSVVDLIIALQEDSYVVGFMEFYTKEGEPYLRTAHGVFICYWDGTVHYLLYLAMAGAICRRKRYRNFGLYWLGSFAMSILVFLTGNILGKYSSEIRPAFFLTIPYLLVPCWAGMKVFSQPRALTRCTANMVQEEQRKGLLQRPADLALVIYLILAGFFTLFRGLVVLDCPTDACFVYIYQYEPYLRDPVAYPKVQMLMYMFYVLPFCGLAAYALTFPGCSWLPDWALVFAGGIGQAQFSHMGASMHLRTPFTYRVPEDTWGCFFVCNLLYALGPHLLAYRCLQWPAFFHQPPPSDPLALHKKQH |
| 3050 | sp|P34314|TLK1\_CAEEL | MSMLSMDGIVAGGGSSSGGGERSFVLEQKMFNTGPQNKALPTVQSSGSSSNHAPIVGESPLGTVSSTMATGDTGRVGNVTYMSSGMLGATQFMPQNSSHPSTSVMMQQVPPQNGGATRSSPTEMQQCMQAMSEDSIEMRDYNSGVHHMHPHQMQMQQQQQHHQQQYNMSYHNHQQQMQQMHYHQQQQQYQQQQAQHHQMYAPQIQQQQQQPQQQSQQQSAQQPQQSSAALQHVNESSNLSSAGSISDREPEQHGGTPQRPTAPQSSTATDKKTRKRRKAGPTEDQATPKQERKITEFMKVGGEVASGNSVARCLLTEYHQNQGSPKRQPAVQQNGSNSYDSQQQQPQMNQHEMQNSYWGVATPSLGVNNRGTPTPTQQQHYSSDSNSNSNQSPPGQGNQSGRMVRTIDEETQTDSSLSQANPQNADEVAKMNRIIEDHRRQIEELNSKNSLERRKNEASKETIKRLLIDKNQIERKALRDKTAADSPRIGCFKTTRTGDSFRDQWVDGWAFAEMDKKTEQINAERNEIASASALLKKRKPLGIGKEPKRPQAVNSQNDSNGMQPSTSSNTNGDDAIFRRPEEPKEIQYQEYIELDEIYKLRREHLRKEETDLSMEKERLEKEKQHHVRELKRASNESASQFNDHRLLHKRYLMLNLLGKGGFSEVWKAFDIEENRYVACKIHHVNKDWKEEKKANYVKHAMREKDIHKSLDHCRIVKQYDLLTIDNHSFCTVLEYVPGNDLDFYLKQNRSISEKEARSIIMQVVSALVYLNEKSTPIIHYDLKPANILLESGNTSGAIKITDFGLSKIMEGESDDHDLGIELTSQFAGTYWYLPPETFIVPPPKITCKVDVWSIGVIFYQCIYGKKPFGNDLTQQKILEYNTIINAREVSFPSKPQVSSAAQDFIRRCLQYRKEDRADVFELAKHELFRPRGAIRASVAGSLLLVIITLCQHSNRSEDRLCVSNV |
| 3051 | sp|P0AA25|THIO\_ECOLI | MSDKIIHLTDDSFDTDVLKADGAILVDFWAEWCGPCKMIAPILDEIADEYQGKLTVAKLNIDQNPGTAPKYGIRGIPTLLLFKNGEVAATKVGALSKGQLKEFLDANLA |
| 3052 | sp|P76562|TMCA\_ECOLI | MAELTALHTLTAQMKREGIRRLLVLSGEEGWCFEHTLKLRDALPGDWLWISPRPDAENHCSPSALQTLLGREFRHAVFDARHGFDAAAFAALSGTLKAGSWLVLLLPVWEEWENQPDADSLRWSDCPDPIATPHFVQHLKRVLTADNEAILWRQNQPFSLAHFTPRTDWYPATGAPQPEQQQLLKQLMTMPPGVAAVTAARGRGKSALAGQLISRIAGRAIVTAPAKASTDVLAQFAGEKFRFIAPDALLASDEQADWLVVDEAAAIPAPLLHQLVSRFPRTLLTTTVQGYEGTGRGFLLKFCARFPHLHRFELQQPIRWAQGCPLEKMVSEALVFDDENFTHTPQGNIVISAFEQTLWQSDPETPLKVYQLLSGAHYRTSPLDLRRMMDAPGQHFLQAAGENEIAGALWLVDEGGLSQQLSQAVWAGFRRPRGNLVAQSLAAHGNNPLAATLRGRRVSRIAVHPARQREGTGRQLIAGALQYTQDLDYLSVSFGYTGELWRFWQRCGFVLVRMGNHREASSGCYTAMALLPMSDAGKQLAEREHYRLRRDAQALAQWNGETLPVDPLNDAVLSDDDWLELAGFAFAHRPLLTSLGCLLRLLQTSELALPALRGRLQKNASDAQLCTTLKLSGRKMLLVRQREEAAQALFALNDVRTERLRDRITQWQLFH |
| 3053 | sp|P97615|THIOM\_RAT | MAQRLLLRRFLTSVISRKPPQGVWASLTSTSLQTPPYNAGGLTGTPSPARTFHTTRVCSTTFNVQDGPDFQDRVVNSETPVVVDFHAQWCGPCKILGPRLEKMVAKQHGKVVMAKVDIDDHTDLAIEYEVSAVPTVLAIKNGDVVDKFVGIKDEDQLEAFLKKLIG |
| 3054 | sp|Q5S248|TM11E\_MOUSE | MYRSCVVRARKRTCVEPWVIGIISFLSLIVLAVCIGLTVHYVRYNHRRTYNYYSTLSFTSDKLYSEFGREASKNFTEMSQRIETMVKHAFHKSPLRGQLVKAHIIKFSKEDDGVLAHMLLIFRIRSTEDPETVHKIIEYVLHEKLKYATGPPNVDPESVKIKKINKTESDNYFNHCCGTRRNKSTVQTSVRIVGGTPVEEEEWPWQSSLRWDGSHRCGATLINNTWLVTAAHCFRTHKDPSRWSATFGATLQPRKLTTGIRRIIVHEKYKYPSHDYDIALAELSKPVPCTNAVHKVCLPDANHEFQPGQRMFVTGFGALKNDGFTQNNLRQVQVDYIDTQTCNQPQSYNGAITPRMLCAGFLKGEKDACQGDSGGPLVTADVRDIWYLAGVVSWGDECGQPNKPGVYTRVTAFRHWIASNTGI |
| 3055 | sp|O14787|TNPO2\_HUMAN | MDWQPDEQGLQQVLQLLKDSQSPNTATQRIVQDKLKQLNQFPDFNNYLIFVLTRLKSEDEPTRSLSGLILKNNVKAHYQSFPPPVADFIKQECLNNIGDASSLIRATIGILITTIASKGELQMWPELLPQLCNLLNSEDYNTCEGAFGALQKICEDSSELLDSDALNRPLNIMIPKFLQFFKHCSPKIRSHAIACVNQFIMDRAQALMDNIDTFIEHLFALAVDDDPEVRKNVCRALVMLLEVRIDRLIPHMHSIIQYMLQRTQDHDENVALEACEFWLTLAEQPICKEVLASHLVQLIPILVNGMKYSEIDIILLKGDVEEDEAVPDSEQDIKPRFHKSRTVTLPHEAERPDGSEDAEDDDDDDALSDWNLRKCSAAALDVLANVFREELLPHLLPLLKGLLFHPEWVVKESGILVLGAIAEGCMQGMVPYLPELIPHLIQCLSDKKALVRSIACWTLSRYAHWVVSQPPDMHLKPLMTELLKRILDGNKRVQEAACSAFATLEEEACTELVPYLSYILDTLVFAFGKYQHKNLLILYDAIGTLADSVGHHLNQPEYIQKLMPPLIQKWNELKDEDKDLFPLLECLSSVATALQSGFLPYCEPVYQRCVTLVQKTLAQAMMYTQHPEQYEAPDKDFMIVALDLLSGLAEGLGGHVEQLVARSNIMTLLFQCMQDSMPEVRQSSFALLGDLTKACFIHVKPCIAEFMPILGTNLNPEFISVCNNATWAIGEICMQMGAEMQPYVQMVLNNLVEIINRPNTPKTLLENTGRLTSPSAIPAITIGRLGYVCPQEVAPMLQQFIRPWCTSLRNIRDNEEKDSAFRGICMMIGVNPGGVVQDFIFFCDAVASWVSPKDDLRDMFYKILHGFKDQVGEDNWQQFSEQFPPLLKERLAAFYGV |
| 3056 | sp|O88393|TGBR3\_MOUSE | MAVTSHHMVPVFVLMSACLATAGPEPSTRCELSPISASHPVQALMESFTVLSGCASRGTTGLPREVHILNLRSTDQGLGQPQREVTLHLNPIASVHTHHKPVVFLLNSPQPLVWHVKTERLAAGVPRLFLVSEGSVVQFSSGNFSLTAETEERSFPQENEHLLHWAQKEYGAVTSFTELKIARNIYIKVGEDQVFPPTCNIGKNFLSLNYLAEYLQPKAAEGCVLASQPHEKEVHIIELISPNSNPYSTFQVDIIIDIRPAREDPEVVKNLVLILKCKKSVNWVIKSFDVKGNLKVIAPDSIGFGKESERSMTVTKLVRNDYPSTQENLMKWALDNGYSPVTSYTIAPVANRFHLRLENNEEMRDEEVHTIPPELRILLGPDHLPALDSPPFQGEIPNGGFPFPFPDIPRRGWKEGEDRIPRPKEPIIPRVQLLPDHREPEEVQGGVNIALSVKCDNEKMVVAVDKDSFQTNGYSGMELTLLDPSCKAKMNGTHFVLESPLNGCGTRHRRSAPDGVVYYNSIVVQAPSPGDSSGWPDGYEDLESGDNGFPGDTDEGETAPLSRAGVVVFNCSLRQLRSPSGFQDQLDGNATFNMELYNTDLFLVPSPGVFSVAENEHVYVEVSVTKADQDLGFAIQTCFISPYSNPDRMSDYTIIENICPKDDSVKFYSSKRVHFPIPHAEVDKKRFSFVFKSVFNTSLLFLHCELTLCSRNKGSQKLPKCVTPDDACTSLDATMIWTMMQNKKTFTKPLAVVLQVDYKENVPNMKESSPVPPPPQIFHGLDTLTVMGIAFAAFVIGALLTGALWYIYSHTGETARRQQVPTSPPASENSSAAHSIGSTQSTPCSSSSTA |
| 3057 | sp|A2ASS6|TITIN\_MOUSE | MTTQAPMFTQPLQSVVVLEGSTATFEAHVSGSPVPEVSWFRDGQVISTSTLPGVQISFSDGRARLMIPAVTKANSGRYSLRATNGSGQATSTAELLVTAETAPPNFSQRLQSMTVRQGSQVRLQVRVTGIPTPVVKFYRDGAEIQSSLDFQISQEGDLYSLLIAEAYPEDSGTYSVNATNSVGRATSTAELVVQGEEVVPAKKTKTIVSTAQISETRQTRIEKKIEAHFDARSIATVEMVIDGATGQLPHKTPPRIPPKPKSRSPTPPSIAAKAQLARQQSPSPIRHSPSPVRHVRAPTPSPVRSVSPAGRISTSPIRSVKSPLLIRKTQTTTMATGPEVPPPWKQEGYVASSTEAEMRETTMTSSTQIRREERWEGRYGVQEQVTISGAAAAAASASVSSSFTAGAITTGTKEVKQETDKSAAVATVVAAVDMARVREPAISAVEQTAQRTTTTAVHIQPAQEQARKEAEKTAVTKVVVAADKAKEQELKSRTREVMVTTQEQTHISHEQIRKETEKAFVPKVVISATKAKEQETRITGEITTKQEQKRITQETIRQETEEIAASMVVVATAKSTKLEAAVGVQEETAIQQDQMHLTHEQMMKETRKTVVPKVIVATPKIKEQDLVSRSREAITTKRDQVQITQEKKRKEVETTALSTIAVATAKAKEQETVLRSREAMATRQEHIQVTHGQVGVGKKAEAVATVVAAVDQARVREPREPTHVEESHSQQTTLEYGYKEHISTTKVPEQPRRPASEPHVVPQAVKPAVIQAPSETHIKTTDQMGMHISSQVKKTTDISTERLVHVDKRPRTASPHFTVSKISVPKTEHGYEASIAGSAIATLQKELSATSSTQKITKSVKAPTVKPGETRVRAEPTPSPQFPFADMPPPDTYKSQAGIEVKKEVGVSISGSTVREEHFEVLRGREAKVTETARVPAPAEVPVTPPTLVSGLKNVTVIEGESVTLECHISGYPSPKVTWYREDYQIESSIDFQITFQGGIARLMIREAFAEDSGRFTCSAVNEAGTVSTSCYLAVQVSEEFDKETTLTEKFATEEKRFVESRDVVMTDTSITEEQAGPGEPAAPFFISKPVVQKLVEGGSVVFECQIGGNPKPHVYWKKSGVPLTTGYRYKVSYNKQTGECRLVISMTFADDAGEYTIVIRNKHGETSASASLLEEADYEALVKTQQEMLYQTQMSTFIQEPKVGEIAPGFAYSEYEKEYEKEQALIRKKMAKDTVMVRTFVEDQEFHISSFEERLIKEIEYRIIKTTLEELLEEDGEEKMAVDISESEAIESGFDIRIKNYRILEGMGVTFHCKMSGYPLPKIAWYKDGKRIRHGERYQMDFLQDGRASLRIPVVLPEDEGIYTAFASNIKGNAICSGKLYVEPAAPFSAPTYMPTPEAVSRIRSVSPRSLSRSPIRMSPAMSPARMSPARMSPARMSPARMSPGRRLEETDESQLERLYKPVFVLKPASFKCLEGQTARFDLKVVGRPMPETFWFHNGQQIVNDYTHKVVIKEDGTQSLIIVPASPSDSGEWTVVAQNRAGKSTISVTLTVEAVEHQIKPAFVEKLKNVNIKEGSRLEMKVRATGNPNPDIVWLKNSDIIVPHKYPRIRIEGTRGEAALKIDSIISQDSAWYTATAINKAGRDTTRCKVNVEVEFAEPEPERKLIIPRGTYRAKEIAAPELEPLHLRYGQEQWEEGDLYDKEKQQKPFFKKKLTSLRLKRFGPAHFECRLTPIGDPTMVVEWLHDGKPLEAANRLRMINEFGYCSLDYGAAYSRDSGVITCRATNKYGTDHTSATLIVKDEKSLVEESQLPDGKKGLQRIEELERMAHEGALTGVTTDQKEKQKPDIVLFPEPVRVLEGETARFRCRVTGYPQPKVNWYLNGQLIRKSKRFRVRYDGIHYLDIVDCKSYDTGEVKVTAENPEGVTEHKVKLEIQQREDFRSVLRRAPEPKPEFHVHEPGKLQFEVQKVDRPVDTSETKEVVKLKRAERITHEKVSEESEELRSKFKRRTEEGYYEAITAVELKSRKKDESYEELLKKTKDELLHWTKELTEEEKKALAEEGKITIPTFKPERIELSPSMEAPKIFERIQSQTVGQGSDAHFRVRVVGKPDPECEWYKNGVKIERSDRIYWYWPEDNVCELVIRDVTAEDSASIMVKAINIAGETSSHAFLLVQAKQLITFTQELQDVVAKEKDTMATFECETSEPFIKVKWYKDGIEVHAGDKYRMHSDRKVHFLSVLTIDTSDAEDYSCVLVEDENIKTTAKLIVEGAVVEFVKELQDIEVPESYSGELECIISPENIEGKWYHNDVELKSNGKYSITSRRGRQNLTVKDVTKEDQGEYSFVVDGKKTTCKLKMKPRPIAILQGLSDQKVCEGDIVQLEVKVSLENVEGVWMKDGQEVQHSDRVHIVIDKQSHMLLIEDMTKEDAGNYSFTIPALGLSTSGNVSVYSVDVITPLKDVNVIEGTKAVLECKVSVPDVTSVKWYLNDEQIKPDDRVQSIVKGTKQRLVINRTHASDEGPYKLMVGRVETSCNLSVEKIKIIRGLRDLTCTETQNVVFEVELSHSGIDVVWNFKGKEIKPSSKYKIEAHGKIYKLTVLNMMKDDEGEYAFYAGENTTSGKLTVAGGAISTPLTDQTVAESQEAVFECEVANPESEGEWLKDGKHLALSNNFRGESDGHKRRLVIAAAKLDDAGEYTYKVATSKTSAKLKVEAVKIKKTLRNLTVTETQDAVFSVELTHPDVKGVQWIKNGVVLDSNDKYEISVKGTLYSLKIKNCAMADESVYGFKLGRLGASARLHVETVKIIKKPKDVTALENATVTFEVSVSHDTVPVKWFHKNVEIKPSDKHRLVSERKVHKLMLQSISPSDAGEYTAMVGQLECKAKLFVETLHITKTMKSIEVPETKAASFECEVSHFNVPSMWLKNGVEIEMSEKFKIVVQGKLHQLIIMNTSTEDSAEYTFVCGNDQVSATLTVTPIMITSMLKDINAEEKDTITFEVTVNYEGISYKWLKNGVEIKSTDRCQMRTKKLTHSLNIRNVHFGDAADYTFVAGKATSTATLYVEARHIEFRKHIKDIKVLEKKRAMFECEVSEPDITVQWMKDGQELQIADRIKIQKEKYVHRLLIPSTRMSDAGKYTVVAGGNMSTANLFVEGRDVRIRSIKKEVQVIEKQRAVVEFEVNEDDVDAHWYKDGIEINFQVQERHQYVVERRIHRMFISETRHSDAGEYTFVAGRNRSSVTLYVNAPEPPQVLQELQPVTVQSGKPARFCAVISGRPQPKISWYKEEQLLSTGFKCKFLHDGQEYTLLLIEAFPEDAAVYTCEAKNDYGVATTSASLSVEVPEVVSPDQEMPVYPPAIVTPLQDTVTSEGRPARFQCQVSGTDLKVSWYCKDKKIKPSRFFRMTQFEDTYQLEIAEAYPEDEGTYAFVANNAVGQVSSTATLRLEAPESILHERIGQQIEMEMKEIASLLSAEEDFQTYSSDLRLPNANETLELLSEPPARSTQFDSRQEGAAPVFIREISDVEISVEDVAKLSVTVTGCPKPKIQWFFNGMLLTPSADYKFVFDGDTHSLIILFTRFQDEGEYTCLASNEYGKAVCSAHLRISPRGERSTEMESGEKKALEKPKGPCPPYFFKELKPVHCGPGIPAVFEYSVHGEPAPTVLWFKEDMPLYTSVCYTIIHSPDGSGTFIVNDPQRGDSGLYLCKAQNLWGESTCAAELLVLPEDTDVPDASCKEESTLGVPGDFLETSARGPLVQGVDSRQEITAFAEGTISKAALIAEETLQLSYERSVDDSEVGTGVTIGAQKLPPVVLSTPQGTGELPSIDGAVHTQPGRGPPPTLNLQAVQAQTTLPKEATLQFEEPEGVFPGASSAAQVSPVTIKPLITLTAEPKGNYPQSSTAAPDHALLSSVAAETLQLGEKKIPEVDKAQRALLLSQSLAEGCVESLEVPDVAVSNMRSEPQVPFQHTCTEGKILMASADTLKSTGQDVALRTEEGKSLSFPLALEEKQVLLKEEQSEVVAVPTSQTSKSEKEPEAIKGVKEVREQELLSKETLFPSMPEEQRLHLKTQVRRALQAAVAREQANLFSEWLRNIDKVEVTAVNFTQEPKRILCTYLITSVSSLTEELTVTIEDIDPQMANLETGLKDALCSIVCEERNILMAEDPRIHEEDKIDVQGGRDHLSDAQKVETVIEAEADSKYLVSKEEVSWSKVESQLKDGDTNEVPQAETLKLAEESGTQKTSTEMSQEEAEGTLADLCPAVLKHLVDTISEEGDTVHLTSSISNAKEVHWYFKGNLVPSDGKFKCLKEQNAYTLVIEAVKTEDEGEYVCEASNDSGKAKTSAKLTVGERAAPVIKRRIEPLEVALGHLAKFTCEIQGAPNVRFQWFKAGREIYESDKCSIRSSNYVSSLEILRTQVVDCGEYTCKASNEYGSVSCTATLTVTEAYPPTFLSRPKALTTFVGKAAKFLCTVSGTPVIEIIWQKDGAALSPSPDCRVTDADNKHSLELSNLTVQDRGIYSCKASNKFGADICQAELTIIDKPHFIKELEAVQSAINKKIHLECQVDEDRKVTITWSKDGQKLPAGKDYKIYFEDKIASLEIPLAKLKDSGTYTCTASNEAGSSSSSAAVAVREPPSFVKKVDPSYLMLPGESARLHCKLKGSPVIQVTWFKNNKELSESNTVRMSFVNSEAILDITDVKVDDSGTYSCEATNDVGSDSCSTEVVIKEPPSFIKTLEPADIVRGANALLQCEIAGTGPFEVNWFKDKKQIRSSKKYRLFTQKTFVYLEISSFNSADVGDYECVVANEVGKCGCVATHLLKEPPTFVKKVDDFTALAGQTVTLQAAVRGSEPISVMWMKGQEVIKEDGKIKMSFSNGVAVLTIPDVQISLGGKYTCLAENEAGSQTSVGELIVKEPAKIIERAELIQVTAGDPATLEYTVSGTPELKPKWYKDGRPLVASKKYRISFKNNIAQLKFYSAELHDSGQYTFEISNEVGSSSCETTFTVLDRDIAPLFTKPLRNVDSVVGGACRLDCKIAGSLPMRVSWFKDGKELTASDRYQIAFVEGTASLEISRVDMNDAGNFTCRATNSVGSKDSSGALIVQEPPSFVTKPGSRDVLPGSAVCLKSAFQGSAPLTIKWFKGDKELVSGGSCYITKETSESSLELYAVKTSDSGTYTCKVSNVAGSVECSADLFVKEPATFIEKLEPSQLLKKGDGTQLACKVTGTPPIKITWFANDRELRESSKHKMSFAESTAVLRLTDVAIEDSGEYMCEAQNEAGSDHCTGIVIVKESPYFTKEFKSIEVLKEYDVMLLAEVAGTPPFEITWFKDNTTLRSGRKYKTFLQDQLVSLQVLKFVAADAGEYQCRVTNEVGSSTCSARVTLREPPSFIKKIEATSSLRGGTAAFQATLKGSLPITVTWLKDNDEITEDDNIRMTFENNVASLYLSGIEVKHDGKYVCQAKNDAGIQRCSALLSVKEPATIMEEAVSIDVTQGDPATLQVKFSGTKEISAKWFKDGQELTLGPKYKISVTDTVSILKIISTEKKDSGEYTFEVQNDVGRSSCKASINVLDLIIPPSFTKKLRKMDSIKGSFIDLECIVAGSHPISIQWFKDDQEISASDKHKFSFHDNTAFLEISQLEGTDSGTYTCSATNKAGHSQCSGHLTVKEPPYFVEKPQSQDVNPGTRVQLKALVGGTAPMTIKWFKDNKELHPGAARSVWKDDTSTILELFSAKAADSGTYICQLSNDVGTTSSKATIFVKEPPQFIKKPSPVLVLRNGQSTTFECQVTGTPEIRVSWYLDGNEITDLRKYGISFVDGLATFQISNARVENSGTYVCEARNDAGTASCSIELKVKEPPIFIRELEPVEVVKDSDVELECEVMGTTPFEVTWLKNNKEIRSGKKYTMSEKMSVFYLHITKCDPSDVGEYQCIIANEGGSCACSARVALKEPPSFIKKIENVTTVLKSSATFQSTVAGSPPISITWLKDDQILEENDNVHISFEDSVATLQVRSVDNGHSGRYTCQAKNESGIERCYAFLLVQEPAQIIEKAKSVDVTEKDPVTLECVVAGTPELKVKWLKDGKQIVPSRYFSMSFENNVASFRIQSVMKQDSGQYTFKVENDFGSSSCDAYLRVLDQDIPPSFTKKLTKMDKVLGSSIHMECKVSGSLPISAQWFKDGKEISTSAKYRLVCHENTVSLEVSNLELEDTANYTCKVSNVAGDNACSGILTVKEPPSFLVKPERQQAIPDSTVEFKAVLKGTPPFKIKWLKDDVELVSGPKCFIGLEGSTSFLNLYSVDSSKTGQYTCQVTNDVGSDSCTTMLLVTEPPKFVKKLEASKIIKAGDSARLECKITGSPEIQVVWYRNEHELTASDKYQMTFIDSVAVIQMNSLGTEDSGDFICEAQNPAGSTSCSTKVIVKEPPVFSSFPPIVETLKNTEVSLECELSGTPPFEVVWYKDKRQLRSSKKYKVASKNFHASIHILNVESTDIGEYHCKAQNEVGSDACVCAVKLKEPPKFISKLNSLTVVAGEPAELQASIEGAQPISVQWLKEKEEVIRESENIRISFVNNVATLQFAKVEPANAGKYICQVKNDGGVRENMATLTVLEPAVIIEKAGSMTVTVGETCALECKVAGTPELSVEWYKDGKLLTSSQKHKFSFYNKISSLKILSVEKEDAGTYTFQVQNNVGKSSCTAVVDVSDRMVPPSFTRRLKDTGGVLGTSCILECKVAGSSPISIAWFHEKTKIVSGAKYQTTFSDNVCTLQLNSLDSSDMGSYTCVAANVAGSDECRALLTVQEPPSFVKEPEPLEVLPGKNITFTSVIRGTPPFKVGWFRGARELVKGNRCNIYFEDTVAELELFNIDISQSGEYTCVVSNNAGQASCTTRLFVKEPATFVKKLSDHSVEPGKSIILEGTYTGTLPISVTWKKDGVSITPSERCNIVTTEKTCILEILSSTKGDAGHYSCEIENEAGRDACDALVSTLEPPYFVTELEPLEASVGDSVSLQCQVAGTPEITVSWFKGDTKLRSTPEYRTYFTNNVATLVFNKVSINDSGEYTCMAENSIGTAASKTIFRIQERQLPPSFARQLKDIEQTVGLPVTLTCRLNGSAPIQVCWYRDGVLLRDDENLQMSFVDNVATLKILQTDLSHSGQYSCSASNPLGTASSTARLTAREPKKSPFFDIKPVSIDVIAGESADFECHVTGAQPMRVTWSKDNKEIRPGGNYTITCVGNTPHLRILKVGKGDSGQYTCQATNDVGKDMCSAQLSVKEPPKFIKKLDASKVAKQGESIQLECKISGSPEIKVVWFRNDSELHESWKYNMSFVNSVALLTINEASAEDTGDYICEAHNGVGDASCSTALKVKAPPVFTQKPPPVGALKGSDVILQCEISGTPPFEVVWVKDRKQVRSSKKFKITSKNFDTSLHIFNLEAPDIGEYHCKATNEVGSDTCACTVKFKEPPRFVKKLSDASTLIGDPVELQAVVEGFQPISVVWLKDKGEVIRESENVRISFVDNIATLQLGSPEASQSGKYVCQIKNDAGMRECSAVLTVLEPATIVEKPEPMTVTTGNPFTLECVVAGTPELSAKWFKDGRELSSGSRHHITFVRNLASLKIPSAEMNDKGLYTFEVENRVGKSSCTVSVHVSDRVVPPSFVRRLKDTSATLGASVVLECRVSGSAPISVGWFLDGNEIISSPKCQSSFADNVCTLTLSSLEPSDTGAYTCVAANVAGQDESSAVLTVQEPPSFEQTPDSVEVLPGMSLTFTSVIRGTPPFKVKWFKGSRELVSGEACTISLEDFVTELELLEVEPGQSGDYSCLVTNDAGSASCTTHLFVKEPATFVKRLADTSVETGSPIVLEATYSGTPPISVSWMKNEYPLSQSPNCGITTTEKSSILEILESTIEDYAQYACLIENEAGQDICEALVSVLEPPYFIEPLEHVEAAIGEPITLQCKVDGTPEIRISWYKEHTKLRSAPAYKMQFKNNVASLVINKVDHSDVGEYTCKAENSVGAVASSAVLVIKERKLPPSFARKLKDVHETLGFPVAFECRINGSEPLQVSWYKDGELLKDDANLQMSFVHHVATLQILQTDQSHVGQYNCSASNPLGTASSSAKLILSEHEVPPFFDLKPVSVDLALGESGSFKCHVTGTAPIKITWAKDNREIRPGGNYKMTLVENTATLTVLKVAKGDAGQYTCYASNVAGKDSCSAQLGVQEPPRFIKKLDQSRIVKQDEYTRYECKIGGSPEIKVLWYKDEVEIQESSKFRMSFEDSVAILEMHSLSVEDSGDYTCEARNAAGSASSSTSLKVKEPPVFRKKPFPVETLKGADVHLECELQGTPPFQVSWHKDKRELRSGKKYKIMSENLLTSIHILNVDTADIGEYQCKATNDVGSDTCVGSVTMKAPPQFVKKLTDISTIIGKEVQLQTTIEGAEPISVAWFKDKGEIVRESDNIWISYSENIATLQFSRAEPANAGKYTCQIKNDAGMQECYATLSVLEPAAIVEKPESIKVTTGDTCTLECTVSGTPELSTKWFKDGKELTSDNKYKISFFNKVSGLKIINVVPGDSGVYSFEVQNPVGKDSCKVSIQVSDRIIPPSFTRKLKETNGLSGSSVVMECKVYGSPPISVLWFHDGNEISSGRKYQTTLTDNTCALTVNMLEEADAGDYTCIATNVAGSDECSAPLTVREPPSFVQKPDPMDVLTGSNVTFTSIVKGSPPFTVSWFKGSTELVPGARCNVSLQDSVGELELFDVDTSQSGEYTCIVSNEAGRASCTTRLFVKAPAIFVKRLNDYSIEKGKPLILEGTFSGTPPISVTWKKNGINVIASQRCNITTTEKSAILEILSSTVEDSGQYNCYIENASGKDSCSAQILILEPPYFVKQLEPVKVTVGDSASLQCQLAGTPEIGVSWYKGDTKLRPTATCKMHFKNNVATLVFTQVDSSDSGEYICRAENSVGEVSSSTFLTVQEQKLPPSFSRQLRDVQETVGLPVVFECAVSGSEPISVSWYKDGKPLKDSPNIQTSFLDNIATLNIFKTDRSLSGQYSCTATNPIGSASSGAKLILTEGKNPPFFDIPLAPMDAVVGESADLECHVTGTQPIKVTWAKDNREIRSGGNYQISYLENSAHLTIVKVDKGDSGQYTCYAVNEVGKDSCTAQLNIKERLIPPSFTKKLSETVEETEGNSFKLEGRVAGSQPITVAWYKNNVEIHPTSNCEIMFKNNALLLQVKRASMADAGLYTCKATNDAGSALCTSSIVIKEPKKPPVFDQHLAPVTASEGDSVQLSCHVQGSEPIRIQWLKAGREVKPSDRCSFSFASGTAMLELKETAKADSGDYVCKASNVAGSDTSKCKVTIKEKPAAAPAAKKAAVDGKLFFVSEPQSIRVVEKTTATFIAKVGGDPIPNVKWTKGKWRQLNQGGRILIHQKGDEAKLEIRDTTKTDSGLYRCVAFNKHGEIESNVNLQVDERKKQEKIEGDLRAMLKKTPALKKGSGEEEEIDIMELLKNVDPKEYEKYARMYGITDFRGLLQAFELLKQSQEEETHRLEIEELEKSERDEKEFEELVAFIQQRLTQTEPVTLIKDIENQTVLKDNDAIFEIDIKINYPEIKLSWYKGTEKLEPSNKYEISIDGDRHTLRVKNCQPKDQGNYRLVCGPHIASAKLTVIEPAWERHLQDVTLKEGQTCTMTCQFSVPNVKSEWFRNGRVLKPQGRVKTEVEHKVHKLTIADVRAEDQGQYTCKHEDLETSAELRIEAEPIQFTKRIQNIVVSEHQSATFECEVSFDDAIVTWYKGPTELTESQKYNFRNDGRCHYMTIHNVTPDDEGVYSVIARLEPRGEARSTAELYLTTKEIKLEMKPPDIPDSRVPIPTMPIRAVPPEEIPPAVAPSIPLLLPLPEEKKPPAKRIEVTKKGVKKDTKKVVTKPKEEAPPPPVAKKPPPPTPMIPAKASEIIDVSSKAEEVKITTITRKKEVHKEKEAVYEREEAVYEKKVHIEPWEEPYEELETEPYTEPYEEPYYEEPDEDYEEIKVEAKKQVHEEWEEDFEEGQEYYEREEGYDEGEEEWEEIYHEREIIQVQKEVHEELHEKKIPAKVPEKKVPPPKVVKKPVVEKVEKTTRRMEEEKVQVIKVPEVSKKIVPQKPSRTPVQEEIIEVKVPAVHTKKMVISEEKMFFASHTEEEVSVSVPEVQKKTVTEEKIHVAVSKKIEPPPKVPEPPKKPVPEEVVPVPIPKKVEPPAAKVPEAPKKPVPEEKKPVPIPKKKEPAAPPQVPEAPKKPAPEEKIPVPVTKKKEAPPAKVPEVQKKVVTEEKIAIITQREESPPPAVPEIPKKKVPEEKRPVPRKEEVPPPKVPVPPKKAVPEAVVPAPIPKKAPPRAEVSKKTVVEEKRFAAEEKLSVAVPQRVELMRHEEEEWTYSEEEERVSVSVYREEERDEEEAEITEYEVLEEPEEYVVEEKMHFISKKVEVEPAKVPEKKIIPKPKVPAKIEEPPPTKVPEPPKKIVPEKKVPAPAPKKVPPAKAPEESKRPVPEKRAPAEEVGIEEPPPTKVAERHMKITQEEKVLVAVTKKEAPPRARVPEEPKKVAPEERFPKLKPRREEEPPAKVTEVRKRAVKEEKVSIEVPKREPRPTKEVTVTEEKKWSYTREEETVSEHREEEYEDYEDYEEYKEFEEYEPTEEYDQYDEYAEREVEHYEEHEEYVTEPKKPVPVKPAQEPVPAKPKAPPPKVLKKAVPEEKAPLPIQKKLKPLPPKAPEEPKKVVEEKIQISITKREKQQVTEPVAKVPMKPKRVVPEAKIPAPTKEVAVPVRVPGVPKKRELEEVVVFKEEVEAHEEYIVEEEEEYVHEEEYVHKEEYVHEEEYVHKEEYIHEEEEHLHEEEETIAEEEVVPVAPVKVPVVPKKPVPEEKKPVPVPKKKEAPPAKVPEIPKKPEEKVPVPIPKKEKAPPAKVPEVPKKPVPEEKPPVPVPKKVEPPPAKVPEVPKKPVPEKKVPAPTPKKVEAPPAKVPEVPKKPIPEEKKPTALLKKMEAPPPKAPKKREVVPVPVALPREEEEEEVPFEEVPEEEILPEEEVPSEEEAPPEEVPPEEEEVLPEEEEVLPEEEEVLPEEEEVQPEEEALPEIKPKVPKPAPVPKKTVPEKKVPVPVPKKVEPPPPPKVPEIKKKVPEKKVVVPKKEEAPPTKVPEVSKKVEERRIIPPKEEEVPPAEVYEEAEEPTPEEIPEEPPSIEEEEIVEEEEEEEEVLPPRAPEVVKKAVPEAPTPVPKKAEAPPAKVPKKIPEEKVPVPVQKKEAPPAKVPEKKKIPEKKVPVPKKEAVPPAKGKAVFEEKISVAYQQEELVQERIELELVEAKVEEAFEEEEFHEVQEYFEEEEFHEVEEFIRVEERRFQEEHKVEEVHRVIEFLEAEEVEVYEKPKIPPKKGPEVSEKVIPPKKPPTKVIPRKEPPAKVPEVTKKTVVEEKIRAPEEPKVPAPKAPEVPKKITPEEKVREAVPKKPEVPPPKVPEVPKKIIQEEKLPVVLPEDTEIYMYEASEETVIEEEHVTLPQKARLKVAKVPAPPQTVVTEEKTYVTIRKTRETLALKESETTREAFPELKSYKAVPEIPEPPSPEDLEIIEDVLPEKRPPASKRRKTQLPTAPEAPREMPPEMNTFEEISVEPEMLPTQVLDTYQEATVEKKTLRISRKKPELPSDEEVPEAPREVVAKKKVLPPQVPEVVPVKVPGAPKEVVSERKSLEEPPKKPAVRPVTVPEEPKEVIPEKKVSLVPPKKPAAPPVTVPEAPEEVFSEDEETLAPPQEPEAPPAKVPEAPKEVVPEKKVSVVPPKKPEAPPAKVPEAPKEAAPEKKVPVAPKKKPEAPPVKVPEAPKKVVPEKKLPVAAPKKPEAPAAEVPEVPKTAVPQKKIPEAIPPKPESPPLEVPEVPPKEVTPEKKVPAAPPTKPEIPPPKVPEAPQAAVVEEKTPEALPKKAEAAPVPVPQVQETVPEKTRPVGPPKKPEATTVPVPKVQKTIPEKTRPEAPPKRPEARTVPETVPEKTRPMAPPKKPEATTLPVPEVQETVPEKTRPVGPPKKPEATTVPVPEVQETIPEKTRPPKKPEATPVPVPEVQETVPEKTRPVGPPKKPEATTVSVPEVQETIPEKTRPAAPPKKPEATAVPETIPEKTRPEAPPKRPEATTVPVPEADQAVVPEKKVPRVPPKKVEAPPITVPEEPKEVIPEKKVSLVPPKKPAAPPVTVPEAPEEVFSEDEETLAPPQEPEAPPAKVPEAPKEVVPEKKVSVVPPKKPEAPPAKVPEAPKEAAPEKKVPVAPKKKPEAPPVKVPEAPKKVVPEKKLPVAAPKKPEAPAAEVPEVPKAAVPQKKIPEAIPPKPESPPPEVYEEPEEEIVPEEPPEEAVEEPVPAPPPKVTEPPKKPVPEKKAPPAVVKKPEPPPAKVPEVPKEAPPEKKVPPKKPEAPPAKVPEVPKEVVTEKKVAVPKKPEVPPAKVPEVPKKPVIEEKPAIPVVEKVASPPAEVYEEPEEVTAEEEEPAPAVEEEEYEAPPPPAPVPEEPKKVVPEKKFPVIKKPEAPPPKVPEVPKKAVPVKKVPVVKKPEPPEAEVPEVPKKLVPVKKEPVPVTKKTEVLPEKVPEAPKKITPEKKESVPVPEEPEAPPASVEETPEETIYEEKATITIGRKETPPVEEREIEKFIQPEEPELEPEPEEIPVQEPEPEKKVIEKPKLKPRPPARPPSPPKEDVKEKMFQLKAVSKKKVPEKPEVVEKVEPAPLKVPTAEKKVRKLLPEPKPQPKEEVVLKSVLRKKPEEEEPKVEPKKVEKAKKPEEPQPPPKAVEVEAPPEPTPKERKVPEPAKVPEIKPAIPLPGPEPKPKPEPEVKTMKAPPIEPAPTPIAAPVTAPVVGKKAEAKPKDEAAKPKGPIKGVAKKTPSPIEAERKKLRPGSGGEKPPDEAPFTYQLKAVPLKFVKEIKDIVLTEAESVGSSAIFECLVSPSTAITTWMKDGSNIRESPKHRFIADGKDRKLHIIDVQLSDAGEYTCVLRLGNKEKTSTAKLIVEELPVRFVKTLEEEVTVVKGQPLYLSCELNKERDVVWRKDGKIVVEKPGRIVPGVIGLMRALTINDADDTDAGTYTVTVENANNLECSSCVKVVEIIREWLVKPIRDQHVKPKGTAVFTCDIAKDTPNIKWFKGYDEIPLEPNDKTEILKEGNHLFLKVKNAMPEDIDEYAVEIEGKRYPAKLTLGEREVELLKPIEDVTIYEKESASFDAEISEEDIPGEWKLKGELLRPSPTCEIKAEGGKRFLTLHKVKLDQAGEVLYQACNAITTAILTVKEIELDFAVPLKDVTVPEKRQARFECVLTREANVIWSKGPDIIKASDKFDIIADGKKHILVINDSQFDDEGVYTAEVEGKKTSAQLFVTGIRLKFISPLEDQTVKEGQTATFVCELSHEKMHVVWFKNDVKLHTTRTVLMSSEGKTYKLEIRETTLDDISQIKAQVKNLSSTANLKVLEADPYFTVKLHDKTGVEKDEIILKCEVSKDVPVKWFKDGEEIVPSPKHSVKTDGLRRILKIKKAELKDKGEYVCDCGTDTTKANVTVEARLIKVEKPLYGVEVFVGETARFEIELSEPDVHGQWKLKGEPLTASPDCEIIEDGKKHVLVLYNCQLDMTGEISFQAANAKSAANLKVKELPLIFITPLSDVKVFEKDEAKFECEVSREPKTFRWLKGTQEITGDDRFELIKDGTRHSLVIKSAAFEDEAKYMFEAEDKRTSGKLIIEGIRLKFLTPLKDVTAKERENAVFTVELSHDNIPVSWFKNDQRLHTSKRVSMHDEGKTHSITFKDLSIDDTSQIRVEAMGISSEAKLTVLEGDPYFTGKLQDYTGVEKDEVILQCEISKADAPVKWFKDGKEIKPSKNVVIKADGKKRMLILKKALKSDIGQYTCDCGTDQTSGKLDIEDREIKLVRPLYSVEVMETETARFETEISEDDIHANWKLKGEALLQTPECEIKEEGKIHVLILHNCRLDQTGGVDFQAANVKSSAHLRVKPRVIGLLRPLKDVTVTAGETATFDCELSYEDIPVEWYLKGKKLEPNDKVVTRSEGRVHTLTLRDVKLEDAGEVQLTAKDFKTQANLFVKEPPVEFTKPLEDQTVEEEATAVLECEVSRENAKVKWFKNGTEILKSKKYEIVADGRVRKLIIHGCTPEDIKTYTCDAKDFKTSCNLNVVPPHVEFLRPLTDLQVKEKETARFECEISKENEKVQWFKDGAEIKKGKKYDIISKGAVRILVINKCLLNDEAEYSCEVRTARTSGMLTVLEEEAVFTKNLANLEVSEGDTIKLVCEVSKPGAEVIWYKGDEEIIETGRFEILTDGRKRILIIQNAQLEDAGSYNCRLPSSRTDSKVKVHELAAEFISKPQNLEILEGEKAEFVCTISKESFEVQWKRDDQTLESGDKYDIIADGKKRVLVVKDATLQDMGTYVVMVGAARAAAHLTVIEKLRIIVPLKDTKVKEQQEVVFNCEVNTEGAKAKWFRNEEAIFDSSKYIILQKDLVYTLRIRDARLDDQANFNVSLTNHRGENVKSAANLIVEEEDLRIVEPLKDIETMEKKSVTFWCKVNRLNVTLKWTKNGEEVAFDNRISYRIDKYKHSLIIKDCGFPDEGEYVVTAGQDKSVAELLIIEAPTEFVEHLEDQTVTEFDDAVFSCQLSREKANVKWYRNGREIKEGKKYKFEKDGSIHRLIIKDCRLEDECEYACGVEDRKSRARLFVEEIPVEIIRPPQDILEAPGADVIFLAELNKDKVEVQWLRNNMIVVQGDKHQMMSEGKIHRLQICDIKPRDQGEYRFIAKDKEARAKLELAAAPKIKTADQDLVVDAGQPLTMVVPYDAYPKAEAEWFKENEPLSTKTVDTTAEQTSFRISEAKKDDKGRYKIVLQNKHGKAEGFINLQVIDVPGPVRNLEVTETFDGEVSLAWEEPLTDGGSKIIGYVVERRDIKRKTWVLVTDRADSCEFTVTGLQKGGVEYLFRVSARNRVGTGEPVETDSPVEARSKYDVPGPPLNVTITDVNRFGVSLTWEPPEYDGGAEITNYVIELRDKTSIRWDTAMTVRAEDLSATVTDVVEGQEYSFRVRAQNRIGVGKPSAATPFVKVADPIERPSPPVNLNASEQTQSSVQLTWEPPLKDGGSPILGYIIERREEGKDNWIRCNMKPVPELTYKVTGLQKGNKYLYRVSAENAAGVSDPSEILGPLTADDAFVEPTMDLSAFKDGLEVIVPNPIKILVPSTGYPRPKATWTFGDQVLEEGDRVKMKTISAYAELVISPSERTDKGIYTLTLENPVKSISGEINVNVIAPPSAPKELKFSDITKDSVHLTWEPPDDDGGSPLTGYVVEKRDMSRKTWTKVMDFVTDLEFTVPDLVQGKEYLFKVCARNKCGPGEPAYTDEPVNMSAPATVPDPPENVKWRDRTANSIFLTWDPPKNDGGSRIKGYIVEKCPRGSDKWVACGEPVPDTKMEVTGLEEGKWYAYRVKALNRQGASKPSKPTEEIQAVDTQEAPEIFLDVKLLAGITVKAGTKIELPATVTGKPEPKITWTKADTLLKPDQRITIENVPKKSTVTITDSKRSDTGTYIIEAVNVCGRATAVVEVNVLDKPGPPAAFDITDVTNESCLLTWNPPRDDGGSKITNYVVERKATDSDVWHKLSSTVKDTNFKATKLTPNKEYIFRVAAENMYGVGEPVQAAPIIAKYQFDPPGPPTRLEPSDITKDAVTLTWCEPDDDGGSPITGYWVERLDPDTDKWVRCNKMPVKDTTYRVKGLTNKKKYRFRVLAENLAGPGKPSRSTEPILIKDPIDPPWPPGKPTVKDIGKTSLVLNWTKPEHDGGAKIESYVIEMLKTGTDEWVRVAEGVPTTEHLLTGLMEGQEYSFRVRAVNKAGESEPSEPSDPVLCREKLYPPSPPRWLEVINITKNTADLKWTVPEKDGGSPITNYIVEKRDVRRKGWQTVDTTVKDTKCTVTPLTEGSLYVFRVAAENAIGQSDYTEIGDSVLAKDTFTTPGPPYALTVVDVTKRHVDLKWEPPKNDGGRPIQRYIIEKKEKLGTRWVKAGKTSGPDCNFRVTDVIEGTEVQFQVRAENEAGVGHPSEPTEILSIEDPTSPPSPPLDLHVTDAGRKHIAIAWKPPEKNGGSPIIGYHVEMCPVGTEKWMRVNSRPIKDLKFKVEEGIVPDKEYVLRVRAVNAVGVSEPSEISENVVAKDPDCKPTIDLETHDIVVIEGEKLNIPVPFRAVPVPTVSWHKDGKEVKASDRLTMKNDHISAHLEVPKSVHADAGVYTITLENKLGSATASINVKVIGLPGPCKDIKASDITKSSCKLTWEPPEFDGGSPILHYVLERREAGRRTYIPVMSGENKLSWTVKDLIPNGEYFFRVKAVNKIGGGEYIELKNPVIAQDPKQPPDPPVDVEVHNPTAKAMTITWKPPLYDGGSKIMGYIIEKITKGEDRWKRCNEHLVPVLTYTAKGLEEGKEYQFRVRAENAAGIGEPSRATPPTKAVDPIDAPKVILRTSLEVKRGDEIALDATISGSPYPTITWIKDENVIVPEEIKKRAAPPVRRKKGEAEEEEPFSLPLTERLSINNSKQGESQLRIRDSLRPDHGQYMIKVENDHGVAKAPCSVSVLDTPGPPINFVFEDIRKDSVLCKWEPPLDDGGSEIINYTLEKKDKTKPDSDWIVITSTLRNCKYSVTKLIEGKEYLFRVRAENRFGPGPPCVSKPLLAKDPFEPPDAPDKPIVEDVTSNSMLVKWNEPKDNGSPILGYWLEKREVNSTHWSRVNKTLLSSLKTKVDGLLEGLTYVFRVCAENAAGPGKFSPPSDPKTARDPISPPGPPVPRVADTSSTTIELEWEPPAFNGGGEIMGYFVDKQLVGTNEWSRCTEKMIKVRQFTVKEIREGADYKLRVSAVNAAGEGPPGETEPVTVAEPQEPPTVELDVSVKGGIQIMAGKTLRIPAEVTGRPVPTKVWTIEEGELDKERVIIENVGTKSELIIKNALRKDHGRYVITATNSCGSKFAAVRVEVFDVPGPVLDLKPVVTNRKMCLLNWSDPADDGGSDITGFIIERKDAKMHTWRQPIETERSKCDITGLIEGQEYKFRVIAKNKFGCGPPVEIGPILAVDPLGPPTSPERLTYTERTKSTITLDWKEPRSDGGSPIQGYIIEKRRHDKPDFERVNKRLCPTTSFLVENLDEHQMYEFRVKAVNDVGESEPSLPLNVVIQDDEVPPTIKLRLAVRGDTIKVKAGEPVNIPADVTGLPMPKIEWSKNEKVIDKPTDTLNITKEEVSRSEAKTELSIPKAAREDKGTYTITASNRLGSVFRNVHVEVYDRPSPPRNLAVTDIKAESCYLTWDAPLDNGGSEITHYIIDKRDASRKKSEWEEVTNTAVERRYGIWKLIPNGQYEFRVRAVNKYGISDECKSDKVVIQDPYRLPGPPGKPKVLERTKGSMLVSWTPPLDNGGSPITGYWLEKREEGGTYWSRVSRAPITKVGLKGVEFNVPRLIEGVKYQFRAMAINAAGIGPPSEPSDPAVAGDPIYPPGPPSCPEVKDKTKSSISLAWKPPAKDGGSPIKGYIVEMQEEGTTDWKPVNEPDKLLTACECVVPNLKELRKYRFRVKAVNEAGESEPSDTTGEIPATDIQEVPEVFIDIGAQDCLVCKAGSQVKIPAVIKGRPTPKSSWEFDGKAKKAMKDGVHDIPEDAQLETAENSSVIIIPECTRAHSGKYSITAKNKAGQKTANCRVKVMDAPGPPKDLKVSDITRGSCRLSWKMPDDDGGDRIKGYVIEKKTIDGKAWTKVNPNCGSTTFVVPDLISEQQYFFRVRAENRFGIGPPAETIQRTTARDPIYPPDPPIKLKIGLITKNTVHLSWKPPKNDGGSPVTHYIVECLAWDPTGKKKEAWRQCNRRDVEELEFTVEDLIEGGEYEFRVKAVNEAGVSKPSATVGPVIVKDQTCPPAIELKEFMEVEEGTDVNIVAKIKGVPFPTLTWFKAPPKKPDSKEPVVYDTHVNKQVVDDTCTLVIPQSRRSDTGLYSITAVNNLGTASKEMRLNVLGRPGPPVGPIKFESISADQMTLSWLPPKDDGGSKITNYVIEKREANRKTWVRVSSEPKECMYTIPKLLEGHEYVFRIMAQNKYGIGEPLDSEPETARNLFSVPGAPDKPTVSSVTRNSMTVNWEEPEYDGGSPVTGYWLEMKDTTSKRWKRVNRDPIKAMTLGVSYKVTGLIEGSDYQFRVYAINAAGVGPASLPSDPVTARDPVAPPGPPFPKVTDWTKSSVDLEWSPPLKDGGSKITGYIVEYKEEGKEEWEKGKDKEVRGTKLVVTGLKEGAFYKFRVRAVNVAGVGEPGEVTDVIEMKDRIVSPDLQLDASVRDRIVVHAGGVIRIIAYVSGKPPPTVTWSMNERALPQEAAIETTAISSSMVIKNCQRSHQGVYSLLAKNEGGERKKTIIVDVLDVPGPVGIPFLSDNLTNDSCKLTWFSPEDDGGSPITNYVIQKREADRRAWTPVTYTVTRQNATVQGLIQGKSYFFRIAAENSIGMGPFVETPNALVIRDPITVPERPEDLEVKEVTKNTVSLTWNPPKYDGGSEIINYVLESRLIGTEKFHKVTNDNLLSRKYTVKGLKEGDTYEYRVSAVNIVGQGKPSFCTKPITCKDELAPPTLDLDFRDKLTVRVGESFALTGRYSGKPKPKIDWFKDEADVLEDDRTHIKTTPTTLALEKTKAKRSDSGKYCVVVENSTGSRKGFCQVNVVDRPGPPVGPVIFDEVTKEYMVISWKPPLDDGGSEITNYIIEKKELGKDIWMPVTSASAKTTCKVPKLLEGKDYIFRIHAENLYGISDPLVSDSMKAKDRFRVPDAPEQPVVTEVTKDSALVTWNKPNDGGKPITNYILEKRETMSKRWVRVTKEPIHPYTKYRVPDLLEGCQYEFRVSAENEIGIGDPSPPSKPVFARDPIAKPSPPINPEAIDTTCNSVELTWQPPRHDGGSKILGYIVEYQKVGDEEWRRANHTPESCPETKYKVTGLRDGQSYKFRVLAVNEAGESDPAHVPEPVLVKDRLEPPELILDANMAREQHIRVGDTLRLSAIIKGVPFPKVTWKKEDREAPTKAQIDVTPVGSKLEIRNAAHEDGGIYSLTVENPAGTKTVSVKVLVLDKPGPPRDLEVSEIRKDSCYLTWKEPLDDGGSVVTNYVVERKDVATAQWSPLSTTSKKKSHMAKHLTEGNQYLFRVAAENQYGRGPFVETPKPIKALDPLHPPGPPKDLHHVDVDKTEVSLVWNKPDRDGGSPITGYLVEYQEEGDKDWIKFKTVKNLDCVVTGLQQGKTYRFRVKAENIIGLGLPDTTIPIECQEKLVPPSVELDVKLIEGLVVKAGTTVRFPAIIRGVPVPTAKWTTDGTEIKTDDHYTVETDSFSSVLTIKNCLRKDTGEYQLTVSNAAGTKTVAVHLTVLDVPGPPTGPINILDVTPEYMTISWQPPKDDGGSPVINYIVEKQDTRKGTWGVVSAGSSKLKLKVPHLQKGCEYVFRVKAENKMGVGPPLDSIPTVAKHKFSPPSPPGKPVVTDITENAATVSWTLPKSDGGSPITGYYVERREITGKWVRVNKTPIADLKFRVTGLYEGNTYEFRVFAENLAGLSNPSPSSDPIKACRPIKPPGPPINPKLKDKSKESADLVWTKPLSDGGSPILGYVVEYQKPGTAQWDRINKDELIRQCAFRVPGLIEGNEYRFRIRAANIVGEGEPRELAESVIAKDILHPPEVELDVTCRDVITVRVGQTIRILARVKGRPEPDITWSKEGKVLVKDKRVDLIHDLPRVELQIKEAVRADHGKYIISAKNSSGHAQGSAIVNVLDRPGPCQNLKVSNVTKENCTISWENPLDNGGSEITNFIVEYRKPNQKGWSIVASDVTKRLVKANLLANNEYYFRVCAENKVGVGPTIETKTPILAINPIDRPGEPENLHIADKGKTFVYLKWRRPDYDGGSPNLSYHVERRLKGSADWERVHKGSIKETHYMVDKCVENQIYEFRVQTKNEGGESDWVRTEEVVVKEDLQKPVLDLKLSGVLTVKAGDTIRLEAGVRGKPFPEVAWTKDKDATDLTRSPRVKIDTSAESSKFSLTKAKRSDGGKYVITATNPAGSFVAYATVNVLDKPGPVRNLKITDVSSDRCTIRWDPPEDDGGCEIQNYILEKCESKRMVWSTYSANVLTPSATVTRLIEGNEYIFRVRAENKIGTGPPTESKPVIAKTKYDRPGRPDPPEVTKVSKEEMTVVWNAPEYDGGKSITGYYLEKKEKHAVRWVPVNKSAIPERRLKVQNLLPGHEYQFRVKAENEVGIGEPSLPSRPVVAKDPIEPPGPPTNFKVVDTTKSSITLAWGKPVYDGGAPIIGYVVEMRPKIADASPDEGWKRCNAAAQLIRMEFTVTSLDENQEYEFRVCAQNQVGIGRPAELKEAIKPKEILEPPEIDLDASMRKLVVVRAGCPIRLFAIVRGRPAPKVTWRKVGIDNVVRKGQVDLVDTMAFLVIPNSTRDDSGKYSLTLVNPAGEKAVFVNVKVLDTPGPVADLKVSDVTKTSCHVSWAPPENDGGSQVTHYIVEKREAERKTWSTVTPEVKKTSFNVTNLVPGNEYFFRVTAVNEYGPGVPTDIPKPVLASDPLSEPDPPRKLEVTEMTKNSATLAWLPPLRDGGAKIDGYIISYREEDQPADRWTEYSVVKDLSLIVTGLKEGKKYKFRVAARNAVGVSMPREAEGVYEAKEQLLPPKILMPEQITIKAGKKLRVEAHVYGKPNPICKWKKGDDEVVTSSHLAIHKADGSSVLIIKDVTRKDSGYYSLTAENSSGSDTQKIKVTVMDAPGPPQPPFDISEIDADACSLSWHIPLEDGGSNITNYIVEKCDVSRGDWVTALASVTKTSCRVGKLIPGQEYIFRVRAENRFGISEPLTSPKMLAKFPFDVPSEPKNARVTKVNKDCIFVAWDRPDSDGGSPITGYLIERKERNSLLWVKANDTIVRSTEYPCAGLVEGLEYSFRIYALNKAGSSPPSKPTEYVTARMPVDPPGKPEVVDVTKNSASLIWARPKHDGGSRIIGYFVEACKLPGDKWVRCNTTPHQIPQEEYTATGLEENAQYQFRAIAKTAVNISQPSEPSDPVTILAENVPPRIELSVEMKSLLTVKAGTNVCLDATVFGKPMPTVSWKKDTTPIKQAEGIKMAMKRNLCTLELFSVNRKDSGDYTITAENSSGSKSATIKLKVLDKPGPPASVKINKMYADRAMLSWEPPLEDGGSEITNYIIDKRETSRPNWAQVSATVPITSCTVEKLIEGHEYQFRICAENKYGVGDPILTEPAIAKNPYDPPGRCDPPVISNITKDHMTVSWKAPADDGGSPITGYLVEKRETQAVNWTKVNRKPVIERTLKATGLQEGTEYEFRVTAINKAGPGKPSDASKAVYAQDPLYPPGPPAFPKVYDTTRSSVSLSWGKPAYDGGSPIIGYLVEVKRADSDHWVRCNLPEKLQKTRFEVTGLMENTEYQFRVYAVNKIGYSDPSDVPDKHCPKDILIPPEGELDAELRKTLILRAGVTMRLYVPVKGRPPPKITWSKPNVNLRERIGLDIKSTDFDTFLRCENVNKYDAGKYILTLENSCGKKEYTIVVKVLDTPGPPVNVTVKEVSKDSAYVTWDPPIIDGGSPIINYVVEKRDAERKSWSTVTTECSKTSFRVSNLEEGKSYFFRVFAENEYGIGDPGETRDAVKASETPGPVVDLKALAITKSSCTIGWKKPRSDGGSRITGYVVDFLTEENKWQRVMKSLSLQYSTKDLKEGKEYTFRVSAENENGEGTPSEIVVVAKDDVVAPDLDLKDLPDLCYLAKENSNFRLKIPIKGKPAPSVSWKKGEDPLATDTRVSVESTAVNTTLVVYDCQKSDAGKYTITLKNVAGTKEGTLSIKVVGKPGIPTGPIKFDEVTAEAMTLKWGPPKDDGGSEITNYVLEKRDSVNNKWVTCASAVQKTTFRVTRLHEGIEYTFRVSAENKYGVGEGLKSEPIVAKHPFDVPDAPPPPNIVDVRHDSVSLTWTDPKKTGGSPITGYHIEFKERNSLLWKRANKTPIRMKDFKVTGLTEGLEYEFRVMAINLAGVGKPSLPSEPVVALDPIDPPGKPEVISVTRNSVTLIWTEPKYDGGHKLTGYIVEKRDLPSKSWMKANHVNVPDCAFTVTDLVEGGKYEFRIRAKNTAGAISAPSESTGTIICKDEYEAPTIVLDPTIKDGLTVKAGDSIVLSAISILGKPLPKSSWSRAGKDIRPSDIAQITSTPTSSMLTVKYATRKDAGEYTITATNPFGTKEEHVKVSVLDVPGPPGPIEISNVSAEKATLTWTPPLEDGGSPIKAYVLEKRETSRLLWTVVSEDIQACRHVVTKLIQGNEYLFRVSAVNHYGKGEPVQSEPVKMVDRFGPPGPPGKPEISNVTKNTATVSWKRPTDDGGSEITGYHVERREKKGLRWVRATKTPVSDLRCKVTGLQEGNTYEFRVSAENRAGIGPPSDASNPVLMKDVAYPPGPPSNAHVTDTTKKSASLAWGKPHYDGGLEITGYVVEHQKVGDDAWIKDTTGTALRITQFVVPDLQTKEKYNFRISAINDAGVGEPAVIPNVEIVEKEVAPDFELDAELRRTLVVRAGLSIRIFVPIKGRPAPEVTWTKDNINLKHRANIENTESFTLLIIPECNRYDTGKFVMTIENPAGKKSGFVNVRVLDTPGPVLNLRPTDITKDSVTLHWDLPLIDGGSRITNYIVEKREATRKSYSTVTTKCHKCTYKVTGLTEGCEYFFRVMAENEYGVGEPTETTEPVRASEAPLPPDSLNIMDITKNTVSLAWPKPRHDGGSKITGYVIEAQRKGSDQWTHISTVKGLECVVRNLTEGEEYTFQVMAVNSAGRSAPRESRPVIVKEQTMLPELDLRGIYQKLVIARAGDNIKVEIPVLGRPKPTVTWKKGDQILKQTQRVNVENTATSTILNINECVRSDSGPYPLTAKNTVGEVGDVITIQVHDIPGPPTGPIKFDEVSSDFVTFSWEPPENDGGVPISNYVVEMRQTDSTTWVELATTVIRTTYKATRLTTGVEYQFRVRAQNRYGVGPGITSASVVANYPFKVPGPPGTPQVTAVTKDSMTISWHEPLSDGGSPILGYHIERKERNGILWQTVSKALVPGNIFKSTGLTDGIAYEFRVIAENMAGKSKPSKPSEPMFALDPIDPPGKPVPLNITRHTVALKWAKPEYTGGFKITSYVVEKRDLPNGRWLKANFSNILENEFTVSGLTEDAAYEFRVIAKNAAGAISPPSEPSDAITCRDDLEAPRIMVDVRFKDTITLKAGEAFKLEADVSGRPPPTMEWTKDGKELEGTGKLEIKIADFSTHLINKDSSRTDSGAYILTATNPGGFAKHIFNVKVLDRPGPPEGPLAVSDVTSEKCVLSWLPPLDDGGAKIDHYIVQKRETSRLAWTNVATEVQVTKLKVTKLLKGNEYIFRVMAVNKYGVGEPLESEPVLAVDPYGPPDPPKNPEVTTITKDSMVVCWGHPDSDGGSEIINYIVERRDKAGQRWVKCNKKALTDLRFKVSGLTEGHEYEFRIMAENAAGISAPSATSPFYKACDTVFKPGPPGNPRVLDTSRSSISIAWNKPIYDGGSEITGYMVEIALPEEDEWQVVTPPAGLKATSYTITSLIENQEYKIRIYAMNSEGLGEPALVPGTPKAEERMLPPEIELDADLRKVVTIRACCTLRLFVPIKGRPAPEVKWAREHGESLDKASIESTSSYTLLVVGNVNRFDSGKYILTVENSSGSKSAFVNVRVLDTPGPPQNLKIKEVTKTSVTLTWEPPLLDGGSKIKNYIVEKRESTRKAYSTVATNCHKTSWKVDQLQEGCSYYFRVLAENEYGIGLPAETAESVKASERPLPPGKITLTDVTRNSVSLSWEKPEHDGGSRILGYIVEMQSKGSDRWATCATVKVTEATITGLIQGEEYSFRVSAQNEKGISDPRQLSVPVIAKDLVIPPAFKLLFNTFTVLAGEDLKIDVPFIGRPPPAVTWHKDDIPLKQTTRVNAESTENNSLLTIKEACREDVGHYTVKLTNSAGEATETLNVIVLDKPGPPTGPVKMDEVTADSVTLSWEPPKYDGGSSINNYIVEKRDTSTTAWQIVSATVARTTIKACRLKTGCEYQFRIAAENRYGKSTYLNSEPVVAQYPFKVPGPPGTPFVTLASKDSMEVQWHEPVSDGGSKVIGYHLERKERNSILWVKLNKTPIPQTKFKTTGLEEGIEYEFRVSAENIVGIGKPSKPSECYAAHDPCDPPGRPEAIIVTRNSVTLQWKKPTYDGGSKITGYIVEKKELPDGRWMKASFTNIIDTQFEVTGLLEDHRYEFRVIARNAAGVFSEPSESTGAITARDEVEPPRISMDPKYRDTVVVQAGESFKIDADIYGKPIPTTQWVKGDQELSSTARLEIKSTDFATSLSVKDAVRVDSGNYILKAKNVAGEKSVTINVKVLDRPGPPEGPVAISGVTAEKCTLAWKPPLQDGGSDITNYIVERRETSRLVWTLVDANVQTLSCKVLKLLEGNEYIFRIMAVNKYGVGEPLESESLIAKNPFVVPDAPKAPEVTAVTKDSMIVVWERPASDGGSEILGYVLEKRDKEGIRWTRCHKRLIGELRLRVTGLLENHNYEFRVSAENAAGLSEPSPPSAYQKACDPIYKPGPPNNPKVMDVTRSSVFLSWTKPIYDGGCEIQGYIVEKCDVSVGEWTMCTPPTGINKTNLEVEKLLEKHEYNFRICAINKAGVGEHADVPGPVMVEEKLEAPDIDLDLELRKVINIRAGGSLRLFVPIKGRPTPEVKWGKVDGDIRDAAIIDVTSSFTSLVLDNVNRYDSGKYTLTLENSSGTKSAFVTVRVLDTPSPPVNLKVTEITKDSVSITWEPPLLDGGSKIKNYIVEKREATRKSYAAVVTNCHKNSWKIDQLQEGCSYYFRVTAENEYGIGLPARTADPIKVAEVPQPPGKITVDDVTRNSVSLSWTKPEHDGGSKIIQYIVEMQAKNTDKWSECARVKSLDAVITNLTQGEEYLFRVIAVNEKGRSDPRSLAVPIIAKDLVIEPDVRPAFSSYSVQVGQDLKIEVPISGRPKPSISWTKDGMPLKQTTRINVTDSLDLTTLSIKETHKDDGGQYGITVSNVVGQKTAAIEIITLDKPDPPKGPVKFDEISAESITLSWNPPLYTGGCQITNYIVQKRDTTTTVWDVVSATVARTTLKVTKLKTGTEYQFRIFAENRYGQSFALESEPVVAQYPYKEPGPPGTPFVTAISKESMVVQWHEPINNGGSPVIGYHLERKERNSILWTKVNKTIIHDTQFKALNLEEGIEYEFRVYAENIVGVGKASKNSECYVARDPCDPPGTPEAIIVKRNEITLQWTKPVYDGGSMITGYIVEKRDLPEGRWMKASFTNVIETQFTVSGLTEDQRYEFRVIAKNAAGAISKPSDSTGPITAKDEVELPRISMDPKFRDTIVVNAGETFRLEADVHGKPLPTIEWLRGDKEIEESARCEIKNTDFKALLIVKDAIRIDGGQYILRASNVAGSKSFPVNVKVLDRPGPPEGPVQVTGVTAEKCTLAWSPPLQDGGSDISHYVVEKRETSRLAWTVVASEVVTNSLKVTKLLEGNKYIFRIMAVNKYGVGEPLESAPVLMKNPFVLPGPPKSLEVTNIAKDSMTVCWNRPDSDGGSEIIGYIVEKRDRSGIRWIKCNKRRITDLRLRVTGLTEDHEYEFRVSAENAAGVGEPSPATVYYKACDPVFKPGPPTNAHVVDTTKNSITLAWSKPIYDGGSEILGYVVEICKADEEEWQIVTPQTGLRVTRFEIAKLIEHQEYKIRVCALNKVGLGEAASVPGTVKPEDKLEAPELDLDSELRKGIVVRAGGSARIHIPFKGRPTPEITWSKEEGEFTDKVQIEKGINFTQLSIDNCDRNDAGKYILKLENSSGSKSAFVTVKVLDTPGPPQNLAVKEVRKDSVLLVWEPPIIDGGAKVKNYVIDKRESTRKAYANVSSKCNKTSFRVENLTEGAIYYFRVMAENEFGVGVPTETSDAVKASEPPSPPGKVTLTDVSQTSASLMWEKPEHDGGSRILGYVVEMQPKGTEKWSVVAESKVCNAVVSGLSSGQEYQFRVKAYNEKGKSDPRVLGIPVIAKDLTIQPSFKLPFNTYSVQAGEDLKIEIPVIGRPRPKISWVKDGEPLKQTTRVNVEETATSTILHIKESSKDDFGKYSVTATNSAGTATENLSVIVLEKPGPPVGPVKFDEVSADFVVISWEPPAYTGGCQISNYIVEKRDTTTTNWQMVSATVARTTIKISKLKTGTEYQFRIFAENRYGKSTPLDSKPVVVQYPFKEPGPPGTPFVTSISKDQMLVQWHEPVNDGGSKVTGYHLEQKEKNSILWVKLNKIPIQDTKFKTTGLDEGLEYEFRVSAENIVGIGKPSKVSECYVARDPCDPPGRPEAIVITRNSVTLKWKKPVYDGGSKITGYIVEKKDLPDGRWMKASFTNVVETEFTVTGLVEDQRYEFRVIARNAADNFSEPSESSGAITARDEIDAPNASLDPKYRDVIIVHAGETFVLEADIRGKPIPDIIWSKDGNELEETAARMEIKSTLQKTTLIVKDCIRTDGGQYTLKLSNVGGTKTIPITVKVLDRPGPPEGPLKVTGVTAEKCYLAWNPPLQDGGASISHYIIEKRETSRLSWTQVSNEVQALNYKVTKLLPGNEYIFRVMAVNKYGIGEALESEPVIACNPYKRPGPPSTPEASAITKDSMVLTWTRPVDDGGAEIEGYILEKRDKEGIRWTKCNKKTLTDLRFRVTGLTEGHSYEFRVAAENAAGVGEPSEPSVFYRACDALYPPGPPSNPKVTDTSRSSVSLAWNKPIYDGGAPVRGYVIELKKAAADEWTTCTPPSGLQGKQFTVTKLKENTEYNFRICAFNTEGVGEPATIPGSVVAQERMEAPEIELDADLRKVVTLRASATLRLFVTIKGRPEPEVKWEKAEGILTERAQIEVTSSYTMLVIDNVTRFDSGRYNLTLENNSGSKTAFVNVRVLDSPSAPVNLTIREVKKDSVTLSWEPPLIDGGAKITNYIVEKRETTRKAYATITNNCTKNTFKIENLQEGCSYYFRVLASNEYGIGLPAETAEPVKVSEPPLPPGRVTLVDVTRNTATIKWEKPESDGGSKITGYVVEMQTKGSEKWSACTQVKTLETTISGLTAGEEYVFRVAAVNEKGRSDPRQLGVPVIAKDIEIKPSVELPFNTFNVKANDQLKIDIPFKGRPQATVAWKKDGQVLRETTRVNVASSKTVTTLSIKEASREDVGTYELCVSNTAGSITVPITVIVLDRPGPPGPIRIDEVSCDNVSISWNPPEYDGGCQISNYIVEKRETTSTTWQVVSQAVARTSIKIVRLTTGSEYQFRVCAENRYGKSSYSESSAVVAEYPFSPPGPPGTPKVVHATKSTMVVSWQVPVNDGGSQVIGYHLEYKERSSILWSKANKVLIADTQMKVSGLDEGLMYEYRVYAENIAGIGKCSKACEPVPARDPCDPPGQPEVTNITRKSVSLKWSKPRYDGGAKITGYIVERRELPDGRWLKCNFTNVQETYFEVTELTEDQRYEFRVFARNAADSVSEPSESTGPITVKDDVEAPRIMMDVKFRDVIIVKAGEVLKINADIAGRPLPVISWAKDGVEIEERAKTEIVSTDYTTTLTVKDCVRRDTGQYVLTLKNVAGTRTMAVNCKVLDKPGPPAGPLEINGLTAEKCSLSWGRPQEDGGADIDYYIVEKRETSRLAWTICEAELRTTSCKVTKLLKGNEYIFRVTGVNKYGVGEPLESMAVKALDPFTTPSPPTSLEITSVTKDSMTLCWSRPETDGGSDISGYIIERREKNSLRWMRVNKKPVYDLRVKSTGLREGCEYEYRVFAENAAGLSLPSETSPLVRAEDPVFLPSPPSKPKIVDSGKTTITIGWVKPLFDGGAPITGYTVEYKKSEETDWKVAIQSFRGTEYTMSGLTTGDEYVFRVRSLNKMGASDPSDSSDPQVAKEREEEPVFDVDSEMRKTLIVKAGSSFTMTVPFRGRPIPNVSWSKPDTDLRTRAYIDSTDSRTLLTIENANRNDSGKYTLTIQNVLSAASMTFVVKVLDSPGPPANITVREVTKETAMLSWDVPENDGGAPVKNYHIEKREASKKAWVSVTNNCNRLSYKVTNLQEGAIYYFRVSGENEFGVGVPAETKEGVKITEKPSPPEKLGVTSVSKDSVSLSWLKPEHDGGSRIIHYVVEALEKGQKTWVKCAVVKTTHHVVSGLRESHEYFFRVFAENQAGLSDPRELLLPVLIKDQLEPPEIDMKNFPSHTVYVRAGSNLKVDIPISGKPLPKVTLSRDGVPLKATMRFNTEITAENLTINLKESVTTDAGRYEITAANSSGTTKTFINIIVLDRPGPPTGPVAISDITEESVTLKWEPPKYDGGSHVTNYIVLKRETSTAVWSEVSATVARTMIKVMKLTTGEEYQFRIKAENRFGISDHIDSVCVVVKLPYTTPGPPSTPWVSNVTRESITVGWHEPVSNGGSAVTGYHLEMKDRNSILWQKANKMIIRTTHFKVTTISAGLIYEFRVYAENAAGIGKPSHPSEPVLAIDACEPPRNVRITDISKNSVNLSWQQPAFDGGSKITGYIVERRDLPDGRWTKASFTNVIETQFTVSGLTQNSQYEFRVFARNAVGSVSNPSEVVGPITCIDSYGGPVIDLPLEYTEVVKYRAGTSVKLRAGISGKPEPTIEWYKDDKELQTNALVCVENSTDLASILIKDANRLNSGSYELKLRNAMGSASATIRVQILDKPGPPGGPIEFKTVTAEKITLLWRPPADDGGAKITHYIVEKRETSRVVWSMVAENLEECIVTTTKIIKGNEYVFRVRAVNKYGIGEPLESEPVVAKNAFVTPGPPSIPEVTKITKNSMTVVWDRPTVDGGSEINGYFLERRDKKSLAWLKVLKETIRDTRQKVTGLTENSDYQYRVCAVNAAGVGPFSEPSDFYKAADPIDPPGPPAKIRIADSTKSSITLGWSKPVYDGGSDVTGYVVEMKQGDEEEWTIVSTRGEVRTTEYVVSNLKPGVNYYFQVSAVNCAGQGEPITMTEPAQAKDVLEEPEIDLDVALRTSVIAKAGEDVQLLIPFKGRPPPTVTWRKDEKNLGSDTRYSIQNTDSSSLLVIPQVTRNDTGKYILTIENGVGQPKSSTVSVKVLDTPAACQKLQVKHVSLGTVTLLWDPPLIDGGSPIINYVIEKRDATKRTWSVVSHKCSGTSFKVTDLSEKTPFFFRVLAENEIGIGEPCETTEPVKAAEVPAPIRDLSMKDSTKTSVVLSWTKPDFDGGSIITDYLVERKGKGEQAWSHAGISKTCEIEIGQLKEQSVLEFRVSARNEKGQSDPVTIGPLTVKELVITPEVDLSEIPGAQISVRIGHNVHLELPYKGKPKPSISWLKDGLPLKESEYVRFSKTENKITLSIKNSKKEHGGKYTVILDNAVCRNSFPITIITLGPPSKPKGPIRFDEIKADSAIMSWDIPEDDGGGEITCYSIEKREASQTNWKMVCSSVARTTFKVSNLVKDSEYQFRVRAENRYGVSEPLASNIIVAKHQFRIPGPPGKPVIYNVTSDGMSLTWDAPVYDGGSEVTGFHVEKKERNSILWQRVNTSPISGREYRATGLIEGLDYQFRVYAENSAGLSSPSDPSKFTLAVSPVDPPGTPDYIDVTRETITLKWNPPLRDGGSKIVAYSIEKRQGSDRWVRCNFTDVSECQYTVTGLSPGDRYEFRIIARNAVGTISPPSQSSGLIMTRDENVPPTVEFGPEYFDGLVIKSGDSLRIKALVQGRPVPRVTWFKDGVEIERRMNMEITDVLGSTSLFVRDATRDHRGVYTVEAKNVSGSTKAEVTVKVQDTPGKVVGPIRFTNITGEKMTLWWEAPLNDGCAPVTHYIIEKRETSRLAWALIEDNCEALSYTAIKLITGNEYQFRISAVNKFGVGRPLESDPVVAQIQYTIPDAPGVPEPSNVTGNSITLTWTRPESDGGSEIQHYILERREKKSTRWVKVISKRPISETRFKVTGLVEGNEYEFHVMAENAAGIGPASGISRLIKCREPVNPPSAPSVVKVTDTSKTTVSLEWARPVFDGGMEIIGYIIEMCKADLGDWHKVNTEPCVKTRYTVTDLQAGEEYKFRVSAVNGAGKGDSCEVTGTIKAVDRLSAPELDIDANFKQTHIVRAGVSIRLFIAYQGRPTPTAVWSKPDSNLSIRADIHTTDSFSTLTVENCNRNDAGKYTLTVENNSGKKSITFTVKVLDSPGPPGPITFKDVTRGSATLMWDAPLLDGGARIHHYVIEKREASRRSWQVVSEKCTRQILKVSELTEGVPYYFRVSAENEYGVGEPYEMPEPIVATEQPAPPRRLDVVDTSKSSAVLAWLKPDHDGGSRITSYLLEMRQKGSDFWVEAGHTKQLTFTVERLVENTEYEFRVKAKNDAGYSEPREAFSSVIIKEPQIEPTADLTGITNQLITCKAGSTFTIDVPISGRPAPKVTWKLEEMRLKETDRMSIATTKDRTTLTVKDSMRGDSGRYFLTLENTAGVKTFTITVVVIGRPGPVTGPIEVSSVSAESCVLSWTEPKDDGGTEITNYIVEKRESGTTAWQLINSSVKRTQIKVTHLTKYKEYCFRVSSENRFGVSKPLESVPIVAEHPFVPPSAPTRPEVYYVSANAMSIRWEEPYHDGGSKIVGYWVEKKERNTILWVKENKVPCLECNYKVTGLVEGLEYQFRTYALNAAGVSKASEASRPIMAQNPVDPPGRPEVTDVTRSTVSLIWSAPVYDGGSKVVGYIIERKPVSEVGDGRWLKCNYTIVSDNFFTVTALSEGDTYEFRVLAKNAAGVISKGSESTGPVTCRDEYAPPKAELDARLQGDLVTIRAGSDLVLDAAVGGKPEPKIIWTKGDKELDLCEKISLQYTGKRATAVIKYCDRSDSGKYTLTVKNASGTKSVSVMVKVLDSPGPCGKLTVSRVTEEKCTLAWSLPQEDGGAEITHYIVERRETSRLNWVIVEGECLTASYVVTRLIKNNEYTFRVRAVNKYGLGVPVESEPIVARNSFTIPSQPGIPEEVGAGKEHIIIQWTKPESDGGNEISNYLVDKREKKSLRWTRVNKDYVVYDTRLKVTSLMEGCDYQFRVTAVNAAGNSEPSEASNFISCREPSYTPGPPSAPRVVDTTKRSISLAWTKPMYDGGTDIIGYVLEMQEKDTDQWCRVHTNATIRNNEFTVPDLKMGQKYSFRVAAVNAKGMSDYSETTAEIEPVERLEIPDLELADDLKKTVIVRAGASLRLMVSVSGRPSPVITWSKKGIDLANRAIIDNTESYSLLIVDKVNRYDAGKYTIEAENQSGKKSATVLVKVYDTPGPCPSVSVKEVSRDSVTITWEIPTIDGGAPVNNYIIEKREAAMRAFKTVTTKCSKTLYRISGLVEGTMYYFRVLPENIYGIGEPCETSDAVLVSEVPLVPTKLEVVDVTKSTVTLAWEKPLYDGGSRLTGYVLEACKAGTERWMKVVTLKPTVLEHTVISLNEGEQYLFRVRAQNEKGVSEPREIVTPVTVQDLRVLPTIDLSTMPQKTIHVPAGRPIELVIPITGRPPPTASWFFAGSKLRESERVTVETHTKVTKLTIRETTIRDTGEYTLELKNVTGTTSETIKVIILDKPGPPTGPIKIDEIDATSVTISWEPPELDGGAPLSGYVVEQRDAHRPGWLPVSESVTRPTFKFTRLTEGNEYVFRVAATNRFGIGSYLQSEVIECRSSISIPGPPETLQIFDVSRDGMTLTWYPPEDDGGSQVTGYIVERKEVRADRWVRVNKVPVTMTRYRSTGLIEGLEYEHRVTAINARGTGKPSRPSKPTVAMDPIAPPGKPQNPRVTDTTRTSVSLAWSVPEDEGGSKVTGYLIEMQKVDQREWTKCNTTPTKIREYTLTHLPQGAEYRFRVLACNAGGPGEPAEVPGTVKVTEMLEYPDYELDERYQEGVFVRQGGVIRLTIPIKGKPFPVCKWTKEGQDISKRAMIATSETHTELVIKEADRNDSGTYDLVLENKCGKKTVYIKVKVIGSPNTPEGPLEYDDIQARSVRVSWRPPADDGGADILGYILERREVPKAAWYTIDSRVRGTSLVVKGLKENVEYHFRVSAENQFGISKPLKSEEPVIPKTPLNPPEPPSNPPEVLDVTKSSVSLSWSRPKDDGGSRVTGYYIERKETSTDKWVRHNKTQITTTMYTVTGLVPDAEYQFRIIAQNDVGLSETSPASEPVVCKDPFDKPSQPGELEILSISKDSVTLQWEKPECDGGKEILGYWVEYRQSGDSAWKKSNKERIKDRQFTIGGLLEATEYEFRVFAENETGLSRPRRTAMSVKTKLTSGEAPGVRKEMADVTTKLGEAAQLSCQIVGRPLPDIKWYRFGKELIQSRKYKMSSDGRTHTLTVMTDEQEDEGVYTCVATNEVGEVESSSKLLLQAAPQFHPGYPLKEKYYGAVGSTLRLHVMYIGRPVPAMTWFHGQKLLQNSEKITIENTEHYTHLVMKNVQRKTHAGKYKVQLSNAFGTVDATLDVEIQDKPDKPTGPIVIEALLKNSVVISWKPPADDGGSWITNYVVEKCEAKEGAEWQLVSSAISVTTCRIVNLTENAGYYFRVSAQNTFGISEPLEVASIVIIKSPFEKPGVPGKPTITAVTKDSCVVAWKPPASDGGAKIRNYYLERREKKQNKWIAVTTEEIRETVFSVQNLIEGLEYEFRVKCENLGGESEWSEISEPVTPKSDVPIQAPHFKEELRNLNVRYQSNATLVCKVTGHPKPIVKWYRQGKEIIA |
| 3058 | sp|P20333|TNR1B\_HUMAN | MAPVAVWAALAVGLELWAAAHALPAQVAFTPYAPEPGSTCRLREYYDQTAQMCCSKCSPGQHAKVFCTKTSDTVCDSCEDSTYTQLWNWVPECLSCGSRCSSDQVETQACTREQNRICTCRPGWYCALSKQEGCRLCAPLRKCRPGFGVARPGTETSDVVCKPCAPGTFSNTTSSTDICRPHQICNVVAIPGNASMDAVCTSTSPTRSMAPGAVHLPQPVSTRSQHTQPTPEPSTAPSTSFLLPMGPSPPAEGSTGDFALPVGLIVGVTALGLLIIGVVNCVIMTQVKKKPLCLQREAKVPHLPADKARGTQGPEQQHLLITAPSSSSSSLESSASALDRRAPTRNQPQAPGVEASGAGEARASTGSSDSSPGGHGTQVNVTCIVNVCSSSDHSSQCSSQASSTMGDTDSSPSESPKDEQVPFSKEECAFRSQLETPETLLGSTEEKPLPLGVPDAGMKPS |
| 3059 | sp|Q8IWU9|TPH2\_HUMAN | MQPAMMMFSSKYWARRGFSLDSAVPEEHQLLGSSTLNKPNSGKNDDKGNKGSSKREAATESGKTAVVFSLKNEVGGLVKALRLFQEKRVNMVHIESRKSRRRSSEVEIFVDCECGKTEFNELIQLLKFQTTIVTLNPPENIWTEEEELEDVPWFPRKISELDKCSHRVLMYGSELDADHPGFKDNVYRQRRKYFVDVAMGYKYGQPIPRVEYTEEETKTWGVVFRELSKLYPTHACREYLKNFPLLTKYCGYREDNVPQLEDVSMFLKERSGFTVRPVAGYLSPRDFLAGLAYRVFHCTQYIRHGSDPLYTPEPDTCHELLGHVPLLADPKFAQFSQEIGLASLGASDEDVQKLATCYFFTIEFGLCKQEGQLRAYGAGLLSSIGELKHALSDKACVKAFDPKTTCLQECLITTFQEAYFVSESFEEAKEKMRDFAKSITRPFSVYFNPYTQSIEILKDTRSIENVVQDLRSDLNTVCDALNKMNQYLGI |
| 3060 | sp|Q02088|TPM\_SCHPO | MDKLREKINAARAETDEAVARAEAAEAKLKEVELQLSLKEQEYESLSRKSEAAESQLEELEEETKQLRLKADNEDIQKTEAEQLSRKVELLEEELETNDKLLRETTEKMRQTDVKAEHFERRVQSLERERDDMEQKLEEMTDKYTKVKAELDEVHQALEDL |
| 3061 | sp|Q61382|TRAF4\_MOUSE | MPGFDYKFLEKPKRRLLCPLCGKPMREPVQVSTCGHRFCDTCLQEFLSEGVFKCPEDQLPLDYAKIYPDPELEVQVLGLAIRCIHSEEGCRWSGPLRHLQGHLNTCSFNVVPCPNRCPAKLSRRDLPAHLQHDCPKRRLKCEFCGCDFSGEAYESHEGVCPQESVYCENKCGARMMRRLLAQHATSECPKRTQPCAYCTKEFVYDTIQSHQYQCPRLPVPCPNQCGVGTVAREDLPTHLKDSCSTAFVLCPFKESGCKHRCPKLAMGRHVEESVKPHLAMMCALVSRQRQELQELRRELEELSIGSDGVLIWKIGSYGRRLQEAKAKPNLECFSPAFYTHKYGYKLQVSAFLNGNGSGEGTHLSIYIRVLPGAFDNLLEWPFARRVTFSLLDQSDPGLAKPQHVTETFHPDPNWKNFQKPGTWRGSLDESSLGFGYPKFISHQDIRKRNYVRDDAVFIRASVELPRKILS |
| 3062 | sp|P12346|TRFE\_RAT | MRFAVGALLACAALGLCLAVPDKTVKWCAVSEHENTKCISFRDHMKTVLPADGPRLACVKKTSYQDCIKAISGGEADAITLDGGWVYDAGLTPNNLKPVAAEFYGSLEHPQTHYLAVAVVKKGTDFQLNQLQGKKSCHTGLGRSAGWIIPIGLLFCNLPEPRKPLEKAVASFFSGSCVPCADPVAFPQLCQLCPGCGCSPTQPFFGYVGAFKCLRDGGGDVAFVKHTTIFEVLPQKADRDQYELLCLDNTRKPVDQYEDCYLARIPSHAVVARNGDGKEDLIWEILKVAQEHFGKGKSKDFQLFGSPLGKDLLFKDSAFGLLRVPPRMDYRLYLGHSYVTAIRNQREGVCPEGSIDSAPVKWCALSHQERAKCDEWSVSSNGQIECESAESTEDCIDKIVNGEADAMSLDGGHAYIAGQCGLVPVMAENYDISSCTNPQSDVFPKGYYAVAVVKASDSSINWNNLKGKKSCHTGVDRTAGWNIPMGLLFSRINHCKFDEFFSQGCAPGYKKNSTLCDLCIGPAKCAPNNREGYNGYTGAFQCLVEKGDVAFVKHQTVLENTNGKNTAAWAKDLKQEDFQLLCPDGTKKPVTEFATCHLAQAPNHVVVSRKEKAARVSTVLTAQKDLFWKGDKDCTGNFCLFRSSTKDLLFRDDTKCLTKLPEGTTYEEYLGAEYLQAVGNIRKCSTSRLLEACTFHKS |
| 3063 | sp|Q9BZY9|TRI31\_HUMAN | MASGQFVNKLQEEVICPICLDILQKPVTIDCGHNFCLKCITQIGETSCGFFKCPLCKTSVRKNAIRFNSLLRNLVEKIQALQASEVQSKRKEATCPRHQEMFHYFCEDDGKFLCFVCRESKDHKSHNVSLIEEAAQNYQGQIQEQIQVLQQKEKETVQVKAQGVHRVDVFTDQVEHEKQRILTEFELLHQVLEEEKNFLLSRIYWLGHEGTEAGKHYVASTEPQLNDLKKLVDSLKTKQNMPPRQLLEDIKVVLCRSEEFQFLNPTPVPLELEKKLSEAKSRHDSITGSLKKFKDQLQADRKKDENRFFKSMNKNDMKSWGLLQKNNHKMNKTSEPGSSSAGGRTTSGPPNHHSSAPSHSLFRASSAGKVTFPVCLLASYDEISGQGASSQDTKTFDVALSEELHAALSEWLTAIRAWFCEVPSS |
| 3064 | sp|Q9H707|ZN552\_HUMAN | MAAAALRFPVQGTVTFEDVAVKFTQEEWNLLSEAQRCLYRDVTLENLALMSSLGCWCGVEDEAAPSKQSIYIQRETQVRTPMAGVSPKKAHPCEMCGPILGDILHVADHQGTHHKQKLHRCEAWGNKLYDSGNFHQHQNEHIGEKPYRGSVEEALFAKRCKLHVSGESSVFSESGKDFLLRSGLLQQEATHTGKSNSKTECVSLFHGGKSHYSCGGCMKHFSTKDILSQHERLLPTEEPSVWCECGKSSSKYDSFSNHQGVHTREKPYTCGICGKLFNSKSHLLVHQRIHTGEKPYECEVCQKFFRHKYHLIAHQRVHTGERPYECSDCGKSFTHSSTFRVHKRVHTGQKPYECSECGKSFAESSSLTKHRRVHTGEKPYGCSECEKKFRQISSLRHHQRVHKRKGL |
| 3065 | sp|P13682|ZNF35\_HUMAN | MTAELREAMALAPWGPVKVKKEEEEEENFPGQASSQQVHSENIKVWAPVQGLQTGLDGSEEEEKGQNISWDMAVVLKATQEAPAASTLGSYSLPGTLAKSEILETHGTMNFLGAETKNLQLLVPKTEICEEAEKPLIISERIQKADPQGPELGEACEKGNMLKRQRIKREKKDFRQVIVNDCHLPESFKEEENQKCKKSGGKYSLNSGAVKNPKTQLGQKPFTCSVCGKGFSQSANLVVHQRIHTGEKPFECHECGKAFIQSANLVVHQRIHTGQKPYVCSKCGKAFTQSSNLTVHQKIHSLEKTFKCNECEKAFSYSSQLARHQKVHITEKCYECNECGKTFTRSSNLIVHQRIHTGEKPFACNDCGKAFTQSANLIVHQRSHTGEKPYECKECGKAFSCFSHLIVHQRIHTAEKPYDCSECGKAFSQLSCLIVHQRIHSGDLPYVCNECGKAFTCSSYLLIHQRIHNGEKPYTCNECGKAFRQRSSLTVHQRTHTGEKPYECEKCGAAFISNSHLMRHHRTHLVE |
| 3066 | sp|Q3UPF5|ZCCHV\_MOUSE | MTDPEVFCFITKILCAHGGRMTLEELLGEISLPEAQLYELLKAAGPDRFVLLETGDQAGITRSVVATTRARVCRRKYCQRPCDSLHLCKLNLLGRCHYAQSQRNLCKYSHDVLSEQNFQVLKNHELSGLNQEELAVLLVQSDPFFMPEICKSYKGEGRKQICGQPQPCERLHICEHFTRGNCSYLNCLRSHNLMDRKVLAIMREHGLSSDVVQNIQDICNNKHTRRNPPSMRAPHPHRRGGAHRDRSKSRDRFHHNSLEVLSTVSPLGSGPPSPDVTGCKDPLEDVSADVTQKFKYLGTQDRAQLSSVSSKAAGVRGPSQMRASQEFLEDGDPDGLFSRNRSDSSTSRTSAAGFPLVAAQRNEAGAMKMGMPSGHHVEVKGKNEDIDRVPFLNSYIDGVTMEEATVSGILGKRATDNGLEEMILSSNHQKSVAKTQDPQTAGRITDSGQDTAFLHSKYEENPAWPGTSTHNGPNGFSQIMDETPNVSKSSPTGFGIKSAVTGGKEAVYSGVQSLRSHVLAMPGETTTPVQGSNRLPPSPLSSSTSHRVAASGSPGKSSTHASVSPASEPSRMMMMMSDPAEYSLCYIVNPVSPRMDDHGLKEICLDHLYRGCQQVNCNKNHFHLPYRWQLFILPTWMDFQDMEYIERAYCDPQIEIIVIEKHRINFKKMTCDSYPIRRLSTPSFVEKTLNSVFTTKWLWYWRNELNEYTQYGHESPSHTSSEINSAYLESFFHSCPRGVLQFHAGSQNYELSFQGMIQTNIASKTQRHVVRRPVFVSSKDVEQKRRGPDHQPVMPQADALTLFSSPQRNASTVSSNEYEFIELNNQDEEYAKISEQFKASMKQFKIVTIKRIWNQKLWDTFERKKQKMKNKTEMFLFHAVGRIHMDYICKNNFEWILHGNREIRYGKGLCWRRENCDSSHAHGFLEMPLASLGRTASLDSSGLQRK |
| 3067 | sp|Q6P7B7|ZFY27\_RAT | MQSSDRDLSGPEASPSVMPEVLSECSPAPTKSTAFDLFNLVLSYKRLEIYLEPLKDAGDGVRYLLRWQMPLCSLLTCLGLNILFLTLNEGAWYSVGALIISVPALLGYLQEVCRAQLPESELMRRKYHSVRQEDLQRVRLSRPEAVAEVKSFLIRLEAFLARLCYTCESAYRVLHWENPVVSSQFYGALLGMVCMLYLLPLCWVLALLNSTLFLGNGEFFRVVSEYRACLQRRMSPKQEECVCEGSALQDAGGRAVVLDSTPAPTPTEDLTPGSVEEAEEAEPDEEFKDAIEEDDEGTPCPAEDELTMQDNGFLSKNEVLRSKVSKLTERLRKRYPTNNFGNCAGCAATFSVLKKRRSCSNCGNSFCSRCCSFKVPKSSMGATAPEAQRETVFVCASCNQTLSK |
| 3068 | sp|Q60821|ZBT17\_MOUSE | MDFPQHSQRVLEQLNQQRQLGLLCDCTFVVDGVDFKAHKAVLAACSEYFKMLFVDQKDVVHLDISNAAGLGQVLEFMYTAKLSLSPENVDDVLAVASFLQMQDIVTACHTLKSLAEPSSTTGESADASAVEGGDKRAKDEKAAATMLSRLDQARGSSSTGPGRELKEERGGQAESASSGAEQTEKADAPREPPPVELKPDPTSSMAAAEAEALSESSEQEMEVEPASKGEDGQEEEGAGPATVKEEGMHLDNGEPPEENEESAGTDSGQELGMEGQNLRSGTYGDRTESKAYGSIIHKCEDCGKEFTHTGNFKRHIRIHTGEKPFSCRECSKAFSDPAACKAHEKTHSPLKPYGCEECGKSYRLISLLNLHKKRHSGEARYRCGDCGKLFTTSGNLKRHQLVHSGQKPYQCDYCGRSFSDPTSKMRHLETHDTDKEHKCPHCDKKFNQVGNLKAHLKIHIADGPLKCRECGKQFTTSGNLKRHLRIHSGEKPYVCTHCQRQFADPGALQRHVRIHTGEKPCQCVICGKAFTQASSLIAHVRQHTGEKPYVCERCGKRFVQSSQLANHIRHHDNIRPHKCSVCSKAFVNVGDLSKHIIIHTGEKPYLCDKCGRGFNRVDNLRSHVKTVHQGKAGIKILEPEEGGEVSVVTVDDMVTLATEALAATAVTQLTVVPVGAAVTADETEVLKAEISKAVKQVQEEDPNTHILYACDSCGDKFLDANSLAQHVRIHTAQALVMFQTDADFYQQYGPGSTWPAGQMLQAGELVFRPRDGTEGQPTLAESPPTAPDCLPPAE |
| 3069 | sp|O95409|ZIC2\_HUMAN | MLLDAGPQFPAIGVGSFARHHHHSAAAAAAAAAEMQDRELSLAAAQNGFVDSAAAHMGAFKLNPGAHELSPGQSSAFTSQGPGAYPGSAAAAAAAAALGPHAAHVGSYSGPPFNSTRDFLFRSRGFGDSAPGGGQHGLFGPGAGGLHHAHSDAQGHLLFPGLPEQHGPHGSQNVLNGQMRLGLPGEVFGRSEQYRQVASPRTDPYSAAQLHNQYGPMNMNMGMNMAAAAAHHHHHHHHHPGAFFRYMRQQCIKQELICKWIDPEQLSNPKKSCNKTFSTMHELVTHVSVEHVGGPEQSNHVCFWEECPREGKPFKAKYKLVNHIRVHTGEKPFPCPFPGCGKVFARSENLKIHKRTHTGEKPFQCEFEGCDRRFANSSDRKKHMHVHTSDKPYLCKMCDKSYTHPSSLRKHMKVHESSPQGSESSPAASSGYESSTPPGLVSPSAEPQSSSNLSPAAAAAAAAAAAAAAAVSAVHRGGGSGSGGAGGGSGGGSGSGGGGGGAGGGGGGSSGGGSGTAGGHSGLSSNFNEWYV |
| 3070 | sp|P09956|ZEST\_DROME | MSAQGEGGGAGGSGGGGAGSDGGGNAGQSSTGSGTVAVTNGGNSSAKNQLPLTPRFTAEEKEVLYTLFHLHEEVIDIKHRKKQRNKYSVRETWDKIVKDFNSHPHVSAMRNIKQIQKFWLNSRLRKQYPYRDGSSSNLSSGSAKISSVSVSVASAVPQQQQQQHHQQHDSVKVEPEYQISPDASEHNPQADTFDEIEMDANDVSEIDEDPMEQQQQQQQEAQAQAQAQAQAQAQVQSAAAEMQKMQQVNAVAAAAAANATMINTHQINVDQISAEKLTLNDLLHFKTARPREEIILIKHPEATATQIHTIPTQAQQHPMATITAGGYNQQIISEIKPQQITLAQYQAQQQQQAQAQAQAQAQAQAQAQAQAQAQAQAQQLAQQQLAAAQHQQLAAAVQVHHQQQQQQQAAVAVQQQQAAAAAAVKMQLTAATPTFTFSALPTVTAATTVPAAVPVPVATASSGSANSVAVNTSTASSVSINNTSLGGGGGNGATNSSATAADSFEERMNYFKIREAELRCKEQQLATEAKRIELNKAQDELKYMKEVHRLRVEELTMKIRILQKEEEQLRKCSTS |
| 3071 | sp|P49910|ZN165\_HUMAN | MATEPKKAAAQNSPEDEGLLIVKIEEEEFIHGQDTCLQRSELLKQELCRQLFRQFCYQDSPGPREALSRLRELCCQWLKPEIHTKEQILELLVLEQFLTILPGDLQAWVHEHYPESGEEAVTILEDLERGTDEAVLQVQAHEHGQEIFQKKVSPPGPALNVKLQPVETKAHFDSSEPQLLWDCDNESENSRSMPKLEIFEKIESQRIISGRISGYISEASGESQDICKSAGRVKRQWEKESGESQRLSSAQDEGFGKILTHKNTVRGEIISHDGCERRLNLNSNEFTHQKSCKHGTCDQSFKWNSDFINHQIIYAGEKNHQYGKSFKSPKLAKHAAVFSGDKTHQCNECGKAFRHSSKLARHQRIHTGERCYECNECGKSFAESSDLTRHRRIHTGERPFGCKECGRAFNLNSHLIRHQRIHTREKPYECSECGKTFRVSSHLIRHFRIHTGEKPYECSECGRAFSQSSNLSQHQRIHMRENLLM |
| 3072 | sp|Q9BXF9|TEKT3\_HUMAN | MERVGCTLTTTYAHPRPTPTNFLPAISTMASSYRDRFPHSNLTHSLSLPWRPSTYYKVASNSPSVAPYCTRSQRVSENTMLPFVSNRTTFFTRYTPDDWYRSNLTNYQESNTSRHNSEKLRVDTSRLIQDKYQQTRKTQADTTQNLGERVNDIGFWKSEIIHELDEMIGETNALTDVKKRLERALMETEAPLQVARECLFHREKRMGIDLVHDEVEAQLLTEVDTILCCQERMKLHLDKAIAQLAANRASQHELEKDLSDKQTAYRIDDKCHHLRNTSDGVGYFRGVERVDATVSVPESWAKFTDDNILRSQSERAASAKLRDDIENLLVVTANEMWNQFNKVNLSFTNRIAETADAKNKIQTHLAKTLQEIFQTEMTIESIKKAIKDKTAFLKVAQTRLDERTRRPNIELCRDMAQLRLVNEVHEVDDTIQTLQQRLRDAEDTLQSLVHIKATLEYDLAVKANSLYIDQEKCMSMRKSYPNTLRLVGFC |
| 3073 | sp|Q92759|TF2H4\_HUMAN | MESTPSRGLNRVHLQCRNLQEFLGGLSPGVLDRLYGHPATCLAVFRELPSLAKNWVMRMLFLEQPLPQAAVALWVKKEFSKAQEESTGLLSGLRIWHTQLLPGGLQGLILNPIFRQNLRIALLGGGKAWSDDTSQLGPDKHARDVPSLDKYAEERWEVVLHFMVGSPSAAVSQDLAQLLSQAGLMKSTEPGEPPCITSAGFQFLLLDTPAQLWYFMLQYLQTAQSRGMDLVEILSFLFQLSFSTLGKDYSVEGMSDSLLNFLQHLREFGLVFQRKRKSRRYYPTRLAINLSSGVSGAGGTVHQPGFIVVETNYRLYAYTESELQIALIALFSEMLYRFPNMVVAQVTRESVQQAIASGITAQQIIHFLRTRAHPVMLKQTPVLPPTITDQIRLWELERDRLRFTEGVLYNQFLSQVDFELLLAHARELGVLVFENSAKRLMVVTPAGHSDVKRFWKRQKHSS |
| 3074 | sp|Q91448|SYUA\_SERCA | MDVFMKGLSKAKEGVVAAAEKTKQGVAEAAGKTKEGVLYVGSRTKEGVVHGVTTVAEKTKEQVSNVGGAVVTGVTAVAQKTVEGAGNIAAATGLVKKDQLAKQNEEGFLQEGMVNNTGAAVDPDNEAYEMPPEEEYQDYEPEA |
| 3075 | sp|P54812|TERA2\_CAEEL | MASVPTQRDEKEKKNDELATAILKDKKRPNRLIIDQSDNDDNSMVMLSQAKMDELGLFRGDSVILKGKKRRETVSIVLNADNCPNDKIKMNKVVRNNLRSRLGDVVSISSAQLEYGKRVHVLPIDDTIEGLTGNLFDVFLRPYFTDAYRPVHKGDIFTVQAAMRTVEFKVVETDPAPACIVAPDTVIHYEGDPIKREEEEEALNEVGYDDLGGVRKQLAQIKEMVELPLRHPQLFKAIGVKPPRGILLFGPPGTGKTLIARAVANETGAFFFLINGPEIMSKMSGESESNLRKAFAECEKNSPAILFIDEIDAIAPKREKAHGEVEKRIVSQLLTLMDGLKTRAHVVVIAATNRPNSIDGALRRFGRFDREIDIGIPDAVGRLEILRIHTKNMKLGEDVDLEQVANECHGFVGADLASLCSEAAIQQIREKMELIDLEDDTIDAEVLNSLAVTMENFRFAMGKSSPSALREAVVETPNTTWSDIGGLQNVKRELQELVQYPVEHPEKYLKFGMQPSRGVLFYGPPGCGKTLLAKAIANECQANFISIKGPELLTMWFGESEANVRDVFDKARAAAPCVLFFDELDSIAKARGGSVGDAGGAADRVINQVLTEMDGMNAKKNVFIIGATNRPDIIDPAVLRPGRLDQLIYIPLPDEASRLQIFKASLRKTPLSADLDLNFLAKNTVGFSGADLTEICQRACKLAIRESIEREIRQEKERQDRSARGEELMEDELADPVPEITRAHFEEAMKFARRSVTDNDIRKYEMFAQTLQQSRGFGNNFKFPGEAPSAGQPVGGNGGSGGNDDDDLYN |
| 3076 | sp|P48230|T4S4\_HUMAN | MCTGGCARCLGGTLIPLAFFGFLANILLFFPGGKVIDDNDHLSQEIWFFGGILGSGVLMIFPALVFLGLKNNDCCGCCGNEGCGKRFAMFTSTIFAVVGFLGAGYSFIISAISINKGPKCLMANSTWGYPFHDGDYLNDEALWNKCREPLNVVPWNLTLFSILLVVGGIQMVLCAIQVVNGLLGTLCGDCQCCGCCGGDGPV |
| 3077 | sp|Q7Z7N9|T179B\_HUMAN | MALSWLQRVELALFAAAFLCGAVAAAAMTRTQGSFSGRCPLYGVATLNGSSLALSRPSAPSLCYFVAGASGLLALYCLLLLLFWIYSSCIEDSHRGAIGLRIALAISAIAVFLVLVSACILRFGTRSLCNSIISLNTTISCSEAQKIPWTPPGTALQFYSNLHNAETSSWVNLVLWCVVLVLQVVQWKSEATPYRPLERGDPEWSSETDALVGSRLSHS |
| 3078 | sp|Q62747|SYT7\_RAT | MYRDPEAASPGAPTRDVLLVSAIITVSLSVTIVLCGLCHWCQRKLGKRYKNSLETVGTPDSGRGRGEKKAIKLPAGGKAVNTAPVPGQTPHDESDRRTEPRSSVSDLVNSLTSEMLMLSPGSEEDEAHEGCSRENLGRIQFSVGYNFQESTLTVKVMKAQELPAKDFSGTSDPFVKIYLLPDKKHKLETKVKRKNLNPHWNETFLFEGFPYEKVVQRILYLQVLDYDRFSRNDPIGEVSIPLNKVDLTQMQTFWKDLKPCSDGSGSRGELLLSLCYNPSANSIIVNIIKARNLKAMDIGGTSDPYVKVWLMYKDKRVEKKKTVTKKRNLNPIFNESFAFDIPTEKLRETTIIITVMDKDKLSRNDVIGKIYLSWKSGPGEVKHWKDMIARPRQPVAQWHQLKA |
| 3079 | sp|Q00059|TFAM\_HUMAN | MAFLRSMWGVLSALGRSGAELCTGCGSRLRSPFSFVYLPRWFSSVLASCPKKPVSSYLRFSKEQLPIFKAQNPDAKTTELIRRIAQRWRELPDSKKKIYQDAYRAEWQVYKEEISRFKEQLTPSQIMSLEKEIMDKHLKRKAMTKKKELTLLGKPKRPRSAYNVYVAERFQEAKGDSPQEKLKTVKENWKNLSDSEKELYIQHAKEDETRYHNEMKSWEEQMIEVGRKDLLRRTIKKQRKYGAEEC |
| 3080 | sp|Q16635|TAZ\_HUMAN | MPLHVKWPFPAVPPLTWTLASSVVMGLVGTYSCFWTKYMNHLTVHNREVLYELIEKRGPATPLITVSNHQSCMDDPHLWGILKLRHIWNLKLMRWTPAAADICFTKELHSHFFSLGKCVPVCRGAEFFQAENEGKGVLDTGRHMPGAGKRREKGDGVYQKGMDFILEKLNHGDWVHIFPEGKVNMSSEFLRFKWGIGRLIAECHLNPIILPLWHVGMNDVLPNSPPYFPRFGQKITVLIGKPFSALPVLERLRAENKSAVEMRKALTDFIQEEFQHLKTQAEQLHNHLQPGR |
| 3081 | sp|O88664|TAOK1\_RAT | MPSTNRAGSLKDPEIAELFFKEDPEKLFTDLREIGHGSFGAVYFARDVRTNEVVAIKKMSYSGKQSTEKWQDIIKEVKFLQRIKHPNSIEYKGCYLREHTAWLVMEYCLGSASDLLEVHKKPLQEVEIAAITHGALQGLAYLHSHTMIHRDIKAGNILLTEPGQVKLADFGSASMASPANSFVGTPYWMAPEVILAMDEGQYDGKVDVWSLGITCIELAERKPPLFNMNAMSALYHIAQNESPTLQSNEWSDYFRNFVDSCLQKIPQDRPTSEELLKHMFVLRERPETVLIDLIQRTKDAVRELDNLQYRKMKKLLFQEAHNGPAVEAQEEEEEQDHGGGRTGTVNSVGSNQSIPSMSISASSQSSSVNSLPDASDDKSELDMMEGDHTVMSNSSVIHLKPEEENYQEEGDPRTRASAPQSPPQVSRHKSHYRNREHFATIRTASLVTRQMQEHEQDSELREQMSGYKRMRRQHQKQLMTLENKLKAEMDEHRLRLDKDLETQRNNFAAEMEKLIKKHQASMEKEAKVMANEEKKFQQHIQAQQKKELNSFLESQKREYKLRKEQLKEELNENQSTPKKEKQEWLSKQKENIQHFQAEEEANLLRRQRQYLELECRRFKRRMLLGRHNLEQDLVREELNKRQTQKDLEHAMLLRQHESMQELEFRHLNTIQKMRCELIRLQHQTELTNQLEYNKRRERELRRKHVMEVRQQPKSLKSKELQIKKQFQDTCKIQTRQYKALRNHLLETTPKSEHKAVLKRLKEEQTRKLAILAEQYDHSINEMLSTQALRLDEAQEAECQVLKMQLQQELELLNAYQSKIKMQAEAQHDRELRELEQRVSLRRALLEQKIEEEMLALQNERTERIRSLLERQAREIEAFDSESMRLGFSNMVLSNLSPEAFSHSYPGASSWSHNPTGGSGPHWGHPMGGTPQAWGHPMQGGPQPWGHPSGPMQGVPRGSSIGVRNSPQALRRTASGGRTEQGMSRSTSVTSQISNGSHMSYT |
| 3082 | sp|P0A870|TALB\_ECOLI | MTDKLTSLRQYTTVVADTGDIAAMKLYQPQDATTNPSLILNAAQIPEYRKLIDDAVAWAKQQSNDRAQQIVDATDKLAVNIGLEILKLVPGRISTEVDARLSYDTEASIAKAKRLIKLYNDAGISNDRILIKLASTWQGIRAAEQLEKEGINCNLTLLFSFAQARACAEAGVFLISPFVGRILDWYKANTDKKEYAPAEDPGVVSVSEIYQYYKEHGYETVVMGASFRNIGEILELAGCDRLTIAPALLKELAESEGAIERKLSYTGEVKARPARITESEFLWQHNQDPMAVDKLAEGIRKFAIDQEKLEKMIGDLL |
| 3083 | sp|Q9NYB0|TE2IP\_HUMAN | MAEAMDLGKDPNGPTHSSTLFVRDDGSSMSFYVRPSPAKRRLSTLILHGGGTVCRVQEPGAVLLAQPGEALAEASGDFISTQYILDCVERNERLELEAYRLGPASAADTGSEAKPGALAEGAAEPEPQRHAGRIAFTDADDVAILTYVKENARSPSSVTGNALWKAMEKSSLTQHSWQSLKDRYLKHLRGQEHKYLLGDAPVSPSSQKLKRKAEEDPEAADSGEPQNKRTPDLPEEEYVKEEIQENEEAVKKMLVEATREFEEVVVDESPPDFEIHITMCDDDPPTPEEDSETQPDEEEEEEEEKVSQPEVGAAIKIIRQLMEKFNLDLSTVTQAFLKNSGELEATSAFLASGQRADGYPIWSRQDDIDLQKDDEDTREALVKKFGAQNVARRIEFRKK |
| 3084 | sp|P02557|TBB\_YEAST | MREIIHISTGQCGNQIGAAFWETICGEHGLDFNGTYHGHDDIQKERLNVYFNEASSGKWVPRSINVDLEPGTIDAVRNSAIGNLFRPDNYIFGQSSAGNVWAKGHYTEGAELVDSVMDVIRREAEGCDSLQGFQITHSLGGGTGSGMGTLLISKIREEFPDRMMATFSVLPSPKTSDTVVEPYNATLSVHQLVEHSDETFCIDNEALYDICQRTLKLNQPSYGDLNNLVSSVMSGVTTSLRYPGQLNSDLRKLAVNLVPFPRLHFFMVGYAPLTAIGSQSFRSLTVPELTQQMFDAKNMMAAADPRNGRYLTVAAFFRGKVSVKEVEDEMHKVQSKNSDYFVEWIPNNVQTAVCSVAPQGLDMAATFIANSTSIQELFKRVGDQFSAMFKRKAFLHWYTSEGMDELEFSEAESNMNDLVSEYQQYQEATVEDDEEVDENGDFGAPQNQDEPITENFE |
| 3085 | sp|Q9VGE8|TACHY\_DROME | MRPLSGLIALALLLLLLLTAPSSAADTETESSGSPLTPGAEEPRRVVKRAPTSSFIGMRGKKDEEHDTSEGNWLGSGPDPLDYADEEADSSYAENGRRLKKAPLAFVGLRGKKFIPINNRLSDVLQSLEEERLRDSLLQDFFDRVAGRDGSAVGKRAPTGFTGMRGKRPALLAGDDDAEADEATELQQKRAPVNSFVGMRGKKDVSHQHYKRAALSDSYDLRGKQQRFADFNSKFVAVRGKKSDLEGNGVGIGDDHEQALVHPWLYLWGEKRAPNGFLGMRGKRPALFE |
| 3086 | sp|Q9R0N5|SYT5\_MOUSE | MFPEPPTLGSPAPKTPPDSSRIRQGAVPAWVLATIVLGSGLLVFSSCFCLYRKRCRRRMGKKSQAQAQVHLQEVKELGRSYIDKVQPEIEELDRSPSMPGQQVSDKHQLGRLQYSLDYDFQTGQLLVGILQAQGLAALDLGGSSDPYVSVYLLPDKRRRHETKVHRQTLNPHFGETFAFKVPYVELGGRVLVMAVYDFDRFSRNDAIGEVRVPMSSVNLGRPVQAWRELQVAPKEEQEKLGDICFSLRYVPTAGKLTVIVLEAKNLKKMDVGGLSDPYVKVHLLQGGKKVRKKKTTIKKNTLNPYYNEAFSFEVPCDQVQKVQVELTVLDYDKLGKNEAIGRVAVGAAVGGAGLRHWADMLANPRRPIAQWHSLRPPDRARPIPAP |
| 3087 | sp|Q13207|TBX2\_HUMAN | MREPALAASAMAYHPFHAPRPADFPMSAFLAAAQPSFFPALALPPGALAKPLPDPGLAGAAAAAAAAAAAAEAGLHVSALGPHPPAAHLRSLKSLEPEDEVEDDPKVTLEAKELWDQFHKLGTEMVITKSGRRMFPPFKVRVSGLDKKAKYILLMDIVAADDCRYKFHNSRWMVAGKADPEMPKRMYIHPDSPATGEQWMAKPVAFHKLKLTNNISDKHGFTILNSMHKYQPRFHIVRANDILKLPYSTFRTYVFPETDFIAVTAYQNDKITQLKIDNNPFAKGFRDTGNGRREKRKQLTLPSLRLYEEHCKPERDGAESDASSCDPPPAREPPTSPGAAPSPLRLHRARAEEKSCAADSDPEPERLSEERAGAPLGRSPAPDSASPTRLTEPERARERRSPERGKEPAESGGDGPFGLRSLEKERAEARRKDEGRKEAAEGKEQGLAPLVVQTDSASPLGAGHLPGLAFSSHLHGQQFFGPLGAGQPLFLHPGQFTMGPGAFSAMGMGHLLASVAGGGNGGGGGPGTAAGLDAGGLGPAASAASTAAPFPFHLSQHMLASQGIPMPTFGGLFPYPYTYMAAAAAAASALPATSAAAAAAAAAGSLSRSPFLGSARPRLRFSPYQIPVTIPPSTSLLTTGLASEGSKAAGGNSREPSPLPELALRKVGAPSRGALSPSGSAKEAANELQSIQRLVSGLESQRALSPGRESPK |
| 3088 | sp|Q9BTW9|TBCD\_HUMAN | MALSDEPAAGGPEEEAEDETLAFGAALEAFGESAETRALLGRLREVHGGGAEREVALERFRVIMDKYQEQPHLLDPHLEWMMNLLLDIVQDQTSPASLVHLAFKFLYIITKVRGYKTFLRLFPHEVADVEPVLDLVTIQNPKDHEAWETRYMLLLWLSVTCLIPFDFSRLDGNLLTQPGQARMSIMDRILQIAESYLIVSDKARDAAAVLVSRFITRPDVKQSKMAEFLDWSLCNLARSSFQTMQGVITMDGTLQALAQIFKHGKREDCLPYAATVLRCLDGCRLPESNQTLLRKLGVKLVQRLGLTFLKPKVAAWRYQRGCRSLAANLQLLTQGQSEQKPLILTEDDDEDDDVPEGVERVIEQLLVGLKDKDTVVRWSAAKGIGRMAGRLPRALADDVVGSVLDCFSFQETDKAWHGGCLALAELGRRGLLLPSRLVDVVAVILKALTYDEKRGACSVGTNVRDAACYVCWAFARAYEPQELKPFVTAISSALVIAAVFDRDINCRRAASAAFQENVGRQGTFPHGIDILTTADYFAVGNRSNCFLVISVFIAGFPEYTQPMIDHLVTMKISHWDGVIRELAARALHNLAQQAPEFSATQVFPRLLSMTLSPDLHMRHGSILACAEVAYALYKLAAQENRPVTDHLDEQAVQGLKQIHQQLYDRQLYRGLGGQLMRQAVCVLIEKLSLSKMPFRGDTVIDGWQWLINDTLRHLHLISSHSRQQMKDAAVSALAALCSEYYMKEPGEADPAIQEELITQYLAELRNPEEMTRCGFSLALGALPGFLLKGRLQQVLTGLRAVTHTSPEDVSFAESRRDGLKAIARICQTVGVKAGAPDEAVCGENVSQIYCALLGCMDDYTTDSRGDVGTWVRKAAMTSLMDLTLLLARSQPELIEAHTCERIMCCVAQQASEKIDRFRAHAASVFLTLLHFDSPPIPHVPHRGELEKLFPRSDVASVNWSAPSQAFPRITQLLGLPTYRYHVLLGLVVSLGGLTESTIRHSTQSLFEYMKGIQSDPQALGSFSGTLLQIFEDNLLNERVSVPLLKTLDHVLTHGCFDIFTTEEDHPFAVKLLALCKKEIKNSKDIQKLLSGIAVFCEMVQFPGDVRRQALLQLCLLLCHRFPLIRKTTASQVYETLLTYSDVVGADVLDEVVTVLSDTAWDAELAVVREQRNRLCDLLGVPRPQLVPQPGAC |
| 3089 | sp|P18292|THRB\_RAT | MLHVRGLGLPGCLALAALASLVHSQHVFLAPQQALSLLQRVRRANSGFLEELRKGNLERECVEEQCSYEEAFEALESPQDTDVFWAKYTVCDSVRKPRETFMDCLEGRCAMDLGLNYHGNVSVTHTGIECQLWRSRYPHRPDINSTTHPGADLKENFCRNPDSSTSGPWCYTTDPTVRREECSIPVCGQEGRTTVKMTPRSRGSKENLSPPLGECLLERGRLYQGNLAVTTLGSPCLAWDSLPTKTLSKYQNFDPEVKLVQNFCRNPDRDEEGAWCFVAQQPGFEYCSLNYCDEAVGEENHDGDESIAGRTTDAEFHTFFDERTFGLGEADCGLRPLFEKKSLTDKTEKELLDSYIDGRIVEGWDAEKGIAPWQVMLFRKSPQELLCGASLISDRWVLTAAHCILYPPWDKNFTENDLLVRIGKHSRTRYERNVEKISMLEKIYIHPRYNWRENLDRDIALLKLKKPVPFSDYIHPVCLPDKQTVTSLLQAGYKGRVTGWGNLRETWTTNINEIQPSVLQVVNLPIVERPVCKASTRIRITDNMFCAGFKVNDTKRGDACEGDSGGPFVMKSPYNHRWYQMGIVSWGEGCDRNGKYGFYTHVFRLKRWMQKVIDQHR |
| 3090 | sp|P63058|THA\_MOUSE | MEQKPSKVECGSDPEENSARSPDGKRKRKNGQCPLKSSMSGYIPSYLDKDEQCVVCGDKATGYHYRCITCEGCKGFFRRTIQKNLHPTYSCKYDSCCVIDKITRNQCQLCRFKKCIAVGMAMDLVLDDSKRVAKRKLIEQNRERRRKEEMIRSLQQRPEPTPEEWDLIHVATEAHRSTNAQGSHWKQRRKFLPDDIGQSPIVSMPDGDKVDLEAFSEFTKIITPAITRVVDFAKKLPMFSELPCEDQIILLKGCCMEIMSLRAAVRYDPESDTLTLSGEMAVKREQLKNGGLGVVSDAIFELGKSLSAFNLDDTEVALLQAVLLMSTDRSGLLCVDKIEKSQEAYLLAFEHYVNHRKHNIPHFWPKLLMKEREVQSSILYKGAAAEGRPGGSLGVHPEGQQLLGMHVVQGPQVRQLEQQLGEAGSLRGPVLQHQSPKSPQQRLLELLHRSGILHSRAVCGEDDSSEASSLSSSSDTEDTEVCEDQAGKAASP |
| 3091 | sp|Q7TS55|TNF18\_MOUSE | MEEMPLRESSPQRAERCKKSWLLCIVALLLMLLCSLGTLIYTSLKPTAIESCMVKFELSSSKWHMTSPKPHCVNTTSDGKLKILQSGTYLIYGQVIPVDKKYIKDNAPFVVQIYKKNDVLQTLMNDFQILPIGGVYELHAGDNIYLKFNSKDHIQKTNTYWGIILMPDLPFIS |
| 3092 | sp|Q9P273|TEN3\_HUMAN | MDVKERRPYCSLTKSRREKERRYTNSSADNEECRVPTQKSYSSSETLKAFDHDSSRLLYGNRVKDLVHREADEFTRQGQNFTLRQLGVCEPATRRGLAFCAEMGLPHRGYSISAGSDADTENEAVMSPEHAMRLWGRGVKSGRSSCLSSRSNSALTLTDTEHENKSDSENEQPASNQGQSTLQPLPPSHKQHSAQHHPSITSLNRNSLTNRRNQSPAPPAALPAELQTTPESVQLQDSWVLGSNVPLESRHFLFKTGTGTTPLFSTATPGYTMASGSVYSPPTRPLPRNTLSRSAFKFKKSSKYCSWKCTALCAVGVSVLLAILLSYFIAMHLFGLNWQLQQTENDTFENGKVNSDTMPTNTVSLPSGDNGKLGGFTQENNTIDSGELDIGRRAIQEIPPGIFWRSQLFIDQPQFLKFNISLQKDALIGVYGRKGLPPSHTQYDFVELLDGSRLIAREQRSLLETERAGRQARSVSLHEAGFIQYLDSGIWHLAFYNDGKNAEQVSFNTIVIESVVECPRNCHGNGECVSGTCHCFPGFLGPDCSRAACPVLCSGNGQYSKGRCLCFSGWKGTECDVPTTQCIDPQCGGRGICIMGSCACNSGYKGESCEEADCIDPGCSNHGVCIHGECHCSPGWGGSNCEILKTMCPDQCSGHGTYLQESGSCTCDPNWTGPDCSNEICSVDCGSHGVCMGGTCRCEEGWTGPACNQRACHPRCAEHGTCKDGKCECSQGWNGEHCTIEGCPGLCNSNGRCTLDQNGWHCVCQPGWRGAGCDVAMETLCTDSKDNEGDGLIDCMDPDCCLQSSCQNQPYCRGLPDPQDIISQSLQSPSQQAAKSFYDRISFLIGSDSTHVIPGESPFNKSLASVIRGQVLTADGTPLIGVNVSFFHYPEYGYTITRQDGMFDLVANGGASLTLVFERSPFLTQYHTVWIPWNVFYVMDTLVMKKEENDIPSCDLSGFVRPNPIIVSSPLSTFFRSSPEDSPIIPETQVLHEETTIPGTDLKLSYLSSRAAGYKSVLKITMTQSIIPFNLMKVHLMVAVVGRLFQKWFPASPNLAYTFIWDKTDAYNQKVYGLSEAVVSVGYEYESCLDLTLWEKRTAILQGYELDASNMGGWTLDKHHVLDVQNGILYKGNGENQFISQQPPVVSSIMGNGRRRSISCPSCNGQADGNKLLAPVALACGIDGSLYVGDFNYVRRIFPSGNVTSVLELSSNPAHRYYLATDPVTGDLYVSDTNTRRIYRPKSLTGAKDLTKNAEVVAGTGEQCLPFDEARCGDGGKAVEATLMSPKGMAVDKNGLIYFVDGTMIRKVDQNGIISTLLGSNDLTSARPLTCDTSMHISQVRLEWPTDLAINPMDNSIYVLDNNVVLQITENRQVRIAAGRPMHCQVPGVEYPVGKHAVQTTLESATAIAVSYSGVLYITETDEKKINRIRQVTTDGEISLVAGIPSECDCKNDANCDCYQSGDGYAKDAKLSAPSSLAASPDGTLYIADLGNIRIRAVSKNKPLLNSMNFYEVASPTDQELYIFDINGTHQYTVSLVTGDYLYNFSYSNDNDITAVTDSNGNTLRIRRDPNRMPVRVVSPDNQVIWLTIGTNGCLKSMTAQGLELVLFTYHGNSGLLATKSDETGWTTFFDYDSEGRLTNVTFPTGVVTNLHGDMDKAITVDIESSSREEDVSITSNLSSIDSFYTMVQDQLRNSYQIGYDGSLRIIYASGLDSHYQTEPHVLAGTANPTVAKRNMTLPGENGQNLVEWRFRKEQAQGKVNVFGRKLRVNGRNLLSVDFDRTTKTEKIYDDHRKFLLRIAYDTSGHPTLWLPSSKLMAVNVTYSSTGQIASIQRGTTSEKVDYDGQGRIVSRVFADGKTWSYTYLEKSMVLLLHSQRQYIFEYDMWDRLSAITMPSVARHTMQTIRSIGYYRNIYNPPESNASIITDYNEEGLLLQTAFLGTSRRVLFKYRRQTRLSEILYDSTRVSFTYDETAGVLKTVNLQSDGFICTIRYRQIGPLIDRQIFRFSEDGMVNARFDYSYDNSFRVTSMQGVINETPLPIDLYQFDDISGKVEQFGKFGVIYYDINQIISTAVMTYTKHFDAHGRIKEIQYEIFRSLMYWITIQYDNMGRVTKREIKIGPFANTTKYAYEYDVDGQLQTVYLNEKIMWRYNYDLNGNLHLLNPSNSARLTPLRYDLRDRITRLGDVQYRLDEDGFLRQRGTEIFEYSSKGLLTRVYSKGSGWTVIYRYDGLGRRVSSKTSLGQHLQFFYADLTYPTRITHVYNHSSSEITSLYYDLQGHLFAMEISSGDEFYIASDNTGTPLAVFSSNGLMLKQIQYTAYGEIYFDSNIDFQLVIGFHGGLYDPLTKLIHFGERDYDILAGRWTTPDIEIWKRIGKDPAPFNLYMFRNNNPASKIHDVKDYITDVNSWLVTFGFHLHNAIPGFPVPKFDLTEPSYELVKSQQWDDIPPIFGVQQQVARQAKAFLSLGKMAEVQVSRRRAGGAQSWLWFATVKSLIGKGVMLAVSQGRVQTNVLNIANEDCIKVAAVLNNAFYLENLHFTIEGKDTHYFIKTTTPESDLGTLRLTSGRKALENGINVTVSQSTTVVNGRTRRFADVEMQFGALALHVRYGMTLDEEKARILEQARQRALARAWAREQQRVRDGEEGARLWTEGEKRQLLSAGKVQGYDGYYVLSVEQYPELADSANNIQFLRQSEIGRR |
| 3093 | sp|Q9Y275|TN13B\_HUMAN | MDDSTEREQSRLTSCLKKREEMKLKECVSILPRKESPSVRSSKDGKLLAATLLLALLSCCLTVVSFYQVAALQGDLASLRAELQGHHAEKLPAGAGAPKAGLEEAPAVTAGLKIFEPPAPGEGNSSQNSRNKRAVQGPEETVTQDCLQLIADSETPTIQKGSYTFVPWLLSFKRGSALEEKENKILVKETGYFFIYGQVLYTDKTYAMGHLIQRKKVHVFGDELSLVTLFRCIQNMPETLPNNSCYSAGIAKLEEGDELQLAIPRENAQISLDGDVTFFGALKLL |
| 3094 | sp|P82281|TL29\_ARATH | MGGVSFLSTVPSFTNTTNHQHLTTLSSSSHRSAVIRCSKIEPQVSGESLAFHRRDVLKLAGTAVGMELIGNGFINNVGDAKAADLNQRRQRSEFQSKIKILLSTTIKAKPELVPSLLKLALNDAMTYDKATKSGGANGSIRFSSELSRAENEGLSDGLSLIEEVKKEIDSISKGGPISYADIIQLAGQSAVKFTYLASAIRKCGGNEEKGNLLYTAYGSAGQWGLFDRNFGRSDATEADPEGRVPQWGKATVQEMKDKFIAVGLGPRQLAVMSAFLGPDQAATEQLLATDPQVAPWVQKYQRSRETVSQTDYEVDLITAFTKLSCLGQQINFEAYTYPVERINLSKLKL |
| 3095 | sp|Q9BXS4|TMM59\_HUMAN | MAAPKGSLWVRTQLGLPPLLLLTMALAGGSGTASAEAFDSVLGDTASCHRACQLTYPLHTYPKEEELYACQRGCRLFSICQFVDDGIDLNRTKLECESACTEAYSQSDEQYACHLGCQNQLPFAELRQEQLMSLMPKMHLLFPLTLVRSFWSDMMDSAQSFITSSWTFYLQADDGKIVIFQSKPEIQYAPHLEQEPTNLRESSLSKMSYLQMRNSQAHRNFLEDGESDGFLRCLSLNSGWILTTTLVLSVMVLLWICCATVATAVEQYVPSEKLSIYGDLEFMNEQKLNRYPASSLVVVRSKTEDHEEAGPLPTKVNLAHSEI |
| 3096 | sp|Q93XM6|TGA9\_ARATH | MANHRMSEATNHNHNHHLPYSLIHGLNNNHPSSGFINQDGSSSFDFGELEEAIVLQGVKYRNEEAKPPLLGGGGGATTLEMFPSWPIRTHQTLPTESSKSGGESSDSGSANFSGKAESQQPESPMSSKHHLMLQPHHNNMANSSSTSGLPSTSRTLAPPKPSEDKRKATTSGKQLDAKTLRRLAQNREAARKSRLRKKAYVQQLESSRIKLSQLEQELQRARSQGLFMGGCGPPGPNITSGAAIFDMEYGRWLEDDNRHMSEIRTGLQAHLSDNDLRLIVDGYIAHFDEIFRLKAVAAKADVFHLIIGTWMSPAERCFIWMAGFRPSDLIKILVSQMDLLTEQQLMGIYSLQHSSQQAEEALSQGLEQLQQSLIDTLAASPVIDGMQQMAVALGKISNLEGFIRQADNLRQQTVHQLRRILTVRQAARCFLVIGEYYGRLRALSSLWLSRPRETLMSDETSCQTTTDLQIVQSSRNHFSNF |
| 3097 | sp|E3VNM4|TGA10\_ARATH | MQGHHQNHHQHLSSSSATSSHGNFMNKDGYDIGEIDPSLFLYLDGQGHHDPPSTAPSPLHHHHTTQNLAMRPPTSTLNIFPSQPMHIEPPPSSTHNTDNTRLVPAAQPSGSTRPASDPSMDLTNHSQFHQPPQGSKSIKKEGNRKGLASSDHDIPKSSDPKTLRRLAQNREAARKSRLRKKAYVQQLESCRIKLTQLEQEIQRARSQGVFFGGSLIGGDQQQGGLPIGPGNISSEAAVFDMEYARWLEEQQRLLNELRVATQEHLSENELRMFVDTCLAHYDHLINLKAMVAKTDVFHLISGAWKTPAERCFLWMGGFRPSEIIKVIVNQIEPLTEQQIVGICGLQQSTQEAEEALSQGLEALNQSLSDSIVSDSLPPASAPLPPHLSNFMSHMSLALNKLSALEGFVLQADNLRHQTIHRLNQLLTTRQEARCLLAVAEYFHRLQALSSLWLARPRQDG |
| 3098 | sp|Q96HH6|TMM19\_HUMAN | MTDLNDNICKRYIKMITNIVILSLIICISLAFWIISMTASTYYGNLRPISPWRWLFSVVVPVLIVSNGLKKKSLDHSGALGGLVVGFILTIANFSFFTSLLMFFLSSSKLTKWKGEVKKRLDSEYKEGGQRNWVQVFCNGAVPTELALLYMIENGPGEIPVDFSKQYSASWMCLSLLAALACSAGDTWASEVGPVLSKSSPRLITTWEKVPVGTNGGVTVVGLVSSLLGGTFVGIAYFLTQLIFVNDLDISAPQWPIIAFGGLAGLLGSIVDSYLGATMQYTGLDESTGMVVNSPTNKARHIAGKPILDNNAVNLFSSVLIALLLPTAAWGFWPRG |
| 3099 | sp|Q8N1Q8|THEM5\_HUMAN | MIRRCFQVAARLGHHRGLLEAPRILPRLNPASAFGSSTDSMFSRFLPEKTDLKDYALPNASWCSDMLSLYQEFLEKTKSSGWIKLPSFKSNRDHIRGLKLPSGLAVSSDKGDCRIFTRCIQVEGQGFEYVIFFQPTQKKSVCLFQPGSYLEGPPGFAHGGSLAAMMDETFSKTAFLAGEGLFTLSLNIRFKNLIPVDSLVVMDVELDKIEDQKLYMSCIAHSRDQQTVYAKSSGVFLQLQLEEESPQ |
| 3100 | sp|Q9EPQ1|TLR1\_MOUSE | MTKPNSLIFYCIIVLGLTLMKIQLSEECELIIKRPNANLTRVPKDLPLQTTTLDLSQNNISELQTSDILSLSKLRVLIMSYNRLQYLNISVFKFNTELEYLDLSHNELKVILCHPTVSLKHLDLSFNAFDALPICKEFGNMSQLQFLGLSGSRVQSSSVQLIAHLNISKVLLVLGDAYGEKEDPESLRHVSTETLHIVFPSKREFRFLLDVSVSTTIGLELSNIKCVLEDQGCSYFLRALSKLGKNLKLSNLTLNNVETTWNSFINILQIVWHTPVKYFSISNVKLQGQLAFRMFNYSDTSLKALSIHQVVTDVFSFPQSYIYSIFANMNIQNFTMSGTHMVHMLCPSQVSPFLHVDFTDNLLTDMVFKDCRNLVRLKTLSLQKNQLKNLENIILTSAKMTSLQKLDISQNSLRYSDGGIPCAWTQSLLVLNLSSNMLTGSVFRCLPPKVKVLDLHNNRIMSIPKDVTHLQALQELNVASNSLTDLPGCGAFSSLSVLVIDHNSVSHPSEDFFQSCQNIRSLTAGNNPFQCTCELRDFVKNIGWVAREVVEGWPDSYRCDYPESSRGTALRDFHMSPLSCDTVLLTVTIGATMLVLAVTGAFLCLYFDLPWYVRMLCQWTQTRHRARHIPLEELQRNLQFHAFVSYSGHDSAWVKNELLPNLEKDDIQICLHERNFVPGKSIVENIINFIEKSYKSIFVLSPHFIQSEWCHYELYFAHHNLFHEGSDNLILILLAPIPQYSIPTNYHKLKTLMSRRTYLEWPTEKNKHGLFWANLRASINVKLVNQAEGTCYTQQ |
| 3101 | sp|Q9FYK0|TMK2\_ARATH | MIAKNFLLLLCFIALVNVESSPDEAVMIALRDSLKLSGNPNWSGSDPCKWSMFIKCDASNRVTAIQIGDRGISGKLPPDLGKLTSLTKFEVMRNRLTGPIPSLAGLKSLVTVYANDNDFTSVPEDFFSGLSSLQHVSLDNNPFDSWVIPPSLENATSLVDFSAVNCNLSGKIPDYLFEGKDFSSLTTLKLSYNSLVCEFPMNFSDSRVQVLMLNGQKGREKLHGSISFLQKMTSLTNVTLQGNSFSGPLPDFSGLVSLKSFNVRENQLSGLVPSSLFELQSLSDVALGNNLLQGPTPNFTAPDIKPDLNGLNSFCLDTPGTSCDPRVNTLLSIVEAFGYPVNFAEKWKGNDPCSGWVGITCTGTDITVINFKNLGLNGTISPRFADFASLRVINLSQNNLNGTIPQELAKLSNLKTLDVSKNRLCGEVPRFNTTIVNTTGNFEDCPNGNAGKKASSNAGKIVGSVIGILLALLLIGVAIFFLVKKKMQYHKMHPQQQSSDQDAFKITIENLCTGVSESGFSGNDAHLGEAGNIVISIQVLRDATYNFDEKNILGRGGFGIVYKGELHDGTKIAVKRMESSIISGKGLDEFKSEIAVLTRVRHRNLVVLHGYCLEGNERLLVYQYMPQGTLSRHIFYWKEEGLRPLEWTRRLIIALDVARGVEYLHTLAHQSFIHRDLKPSNILLGDDMHAKVADFGLVRLAPEGTQSIETKIAGTFGYLAPEYAVTGRVTTKVDVYSFGVILMELLTGRKALDVARSEEEVHLATWFRRMFINKGSFPKAIDEAMEVNEETLRSINIVAELANQCSSREPRDRPDMNHVVNVLVSLVVQWKPTERSSDSEDIYGIDYDTPLPQLILDSCFFGDNTLTSIPSRPSELESTFKSGQGR |
| 3102 | sp|P70284|TGIF1\_MOUSE | MKSKKGLVAASGSDSEDEDSMDSPLDLSSSAASGKRRRRGNLPKESVQILRDWLYEHRYNAYPSEQEKALLSQQTHLSTLQVCNWFINARRRLLPDMLRKDGKDPNQFTISRRGAKISEASSIEAAMGIKNFMPTLEESPFHSCVVGPNPTLGRPVSPKPPSPGSILARPSVICHTTVTALKDGPFSLCQPIGVGQSTDVPQIAPSNFTDTSLVYPEDTCKSGPSPNPQSGLFNTPPPTPPDLNQDFSGFQLLVDVALKRAAEMELQAKLTA |
| 3103 | sp|P38438|TGFR2\_RAT | MGRGLLRGLWPLHIVLWTRIASTIPPHVPKSVNSDLMAGDNSGAVKLPQLCKFCDVTLSTCDNQKSCMSNCSVTSICEKPQEVCVAVWRKNDKNITLETVCHDPKFTYHGFTLEDATSPTCVMKEKKRAGETFFMCSCNTEECNDYIIFNEEYTTSSPDLLLVIIQVTGVSLLPPLGIAIAVIAIFYCYRVHRQQKLSPSWESSKPRKLMDFSDNCAIILEDDRSDISSTCANNINHNTELLPIELDTLVGKGRFAEVYKAKLKQNTSEQFETVAVKIFPYEEYSSWKTEKDIFSDINLKHENILQFLTAEERKTEMGKQYWLITAFHAKGNLQEYLTRHVISWEDLRKLGSSLARGIAHLHSDHTPCGRPKMPIVHRDLKSSNILVKNDLTCCLCDFGLSLRLDPTLSVDDLANSGQVGTARYMAPEVLESRMNLENMESFKQTDVYSMALVLWEMTSRCNAVGEVKDYEPPFGSKVREHPCVESMKDNVLRDRGRPEIPSFWLNHQGIQIVCETLTECWDHDPEARLTAQCVAERFSELEHPDRLSGRSCSQEKIPEDGSLNTTK |
| 3104 | sp|O14788|TNF11\_HUMAN | MRRASRDYTKYLRGSEEMGGGPGAPHEGPLHAPPPPAPHQPPAASRSMFVALLGLGLGQVVCSVALFFYFRAQMDPNRISEDGTHCIYRILRLHENADFQDTTLESQDTKLIPDSCRRIKQAFQGAVQKELQHIVGSQHIRAEKAMVDGSWLDLAKRSKLEAQPFAHLTINATDIPSGSHKVSLSSWYHDRGWAKISNMTFSNGKLIVNQDGFYYLYANICFRHHETSGDLATEYLQLMVYVTKTSIKIPSSHTLMKGGSTKYWSGNSEFHFYSINVGGFFKLRSGEEISIEVSNPSLLDPDQDATYFGAFKVRDID |
| 3105 | sp|Q9BU79|TM243\_HUMAN | MEDFATRTYGTSGLDNRPLFGETSAKDRIINLVVGSLTSLLILVTLISAFVFPQLPPKPLNIFFAVCISLSSITACILIYWYRQGDLEPKFRKLIYYIIFSIIMLCICANLYFHDVGR |
| 3106 | sp|Q8NI27|THOC2\_HUMAN | MAAAAVVVPAEWIKNWEKSGRGEFLHLCRILSENKSHDSSTYRDFQQALYELSYHVIKGNLKHEQASNVLSDISEFREDMPSILADVFCILDIETNCLEEKSKRDYFTQLVLACLYLVSDTVLKERLDPETLESLGLIKQSQQFNQKSVKIKTKLFYKQQKFNLLREENEGYAKLIAELGQDLSGSITSDLILENIKSLIGCFNLDPNRVLDVILEVFECRPEHDDFFISLLESYMSMCEPQTLCHILGFKFKFYQEPNGETPSSLYRVAAVLLQFNLIDLDDLYVHLLPADNCIMDEHKREIAEAKQIVRKLTMVVLSSEKMDEREKEKEKEEEKVEKPPDNQKLGLLEALLKIGDWQHAQNIMDQMPPYYAASHKLIALAICKLIHITIEPLYRRVGVPKGAKGSPVNALQNKRAPKQAESFEDLRRDVFNMFCYLGPHLSHDPILFAKVVRIGKSFMKEFQSDGSKQEDKEKTEVILSCLLSITDQVLLPSLSLMDCNACMSEELWGMFKTFPYQHRYRLYGQWKNETYNSHPLLVKVKAQTIDRAKYIMKRLTKENVKPSGRQIGKLSHSNPTILFDYILSQIQKYDNLITPVVDSLKYLTSLNYDVLAYCIIEALANPEKERMKHDDTTISSWLQSLASFCGAVFRKYPIDLAGLLQYVANQLKAGKSFDLLILKEVVQKMAGIEITEEMTMEQLEAMTGGEQLKAEGGYFGQIRNTKKSSQRLKDALLDHDLALPLCLLMAQQRNGVIFQEGGEKHLKLVGKLYDQCHDTLVQFGGFLASNLSTEDYIKRVPSIDVLCNEFHTPHDAAFFLSRPMYAHHISSKYDELKKSEKGSKQQHKVHKYITSCEMVMAPVHEAVVSLHVSKVWDDISPQFYATFWSLTMYDLAVPHTSYEREVNKLKVQMKAIDDNQEMPPNKKKKEKERCTALQDKLLEEEKKQMEHVQRVLQRLKLEKDNWLLAKSTKNETITKFLQLCIFPRCIFSAIDAVYCARFVELVHQQKTPNFSTLLCYDRVFSDIIYTVASCTENEASRYGRFLCCMLETVTRWHSDRATYEKECGNYPGFLTILRATGFDGGNKADQLDYENFRHVVHKWHYKLTKASVHCLETGEYTHIRNILIVLTKILPWYPKVLNLGQALERRVHKICQEEKEKRPDLYALAMGYSGQLKSRKSYMIPENEFHHKDPPPRNAVASVQNGPGGGPSSSSIGSASKSDESSTEETDKSRERSQCGVKAVNKASSTTPKGNSSNGNSGSNSNKAVKENDKEKGKEKEKEKKEKTPATTPEARVLGKDGKEKPKEERPNKDEKARETKERTPKSDKEKEKFKKEEKAKDEKFKTTVPNAESKSTQEREREKEPSRERDIAKEMKSKENVKGGEKTPVSGSLKSPVPRSDIPEPEREQKRRKIDTHPSPSHSSTVKDSLIELKESSAKLYINHTPPPLSKSKEREMDKKDLDKSRERSREREKKDEKDRKERKRDHSNNDREVPPDLTKRRKEENGTMGVSKHKSESPCESPYPNEKDKEKNKSKSSGKEKGSDSFKSEKMDKISSGGKKESRHDKEKIEKKEKRDSSGGKEEKKHHKSSDKHR |
| 3107 | sp|Q9BTX3|TM208\_HUMAN | MAPKGKVGTRGKKQIFEENRETLKFYLRIILGANAIYCLVTLVFFYSSASFWAWLALGFSLAVYGASYHSMSSMARAAFSEDGALMDGGMDLNMEQGMAEHLKDVILLTAIVQVLSCFSLYVWSFWLLAPGRALYLLWVNVLGPWFTADSGTPAPEHNEKRQRRQERRQMKRL |
| 3108 | sp|Q2M3C6|TM266\_HUMAN | MAVAPSFNMTNPQPAIEGGISEVEIISQQVDEETKSIAPVQLVNFAYRDLPLAAVDLSTAGSQLLSNLDEDYQREGSNWLKPCCGKRAAVWQVFLLSASLNSFLVACVILVVILLTLELLIDIKLLQFSSAFQFAGVIHWISLVILSVFFSETVLRIVVLGIWDYIENKIEVFDGAVIILSLAPMVASTVANGPRSPWDAISLIIMLRIWRVKRVIDAYVLPVKLEMEMVIQQYEKAKVIQDEQLERLTQICQEQGFEIRQLRAHLAQQDLDLAAEREAALQAPHVLSQPRSRFKVLEAGTWDEETAAESVVEELQPSQEATMKDDMNSYISQYYNGPSSDSGVPEPAVCMVTTAAIDIHQPNISSDLFSLDMPLKLGGNGTSATSESASRSSVTRAQSDSSQTLGSSMDCSTAREEPSSEPGPSPPPLPSQQQVEEATVQDLLSSLSEDPCPSQKALDPAPLARPSPAGSAQTSPELEHRVSLFNQKNQEGFTVFQIRPVIHFQPTVPMLEDKFRSLESKEQKLHRVPEA |
| 3109 | sp|P36940|TNFL6\_RAT | MQQPVNYPCPQIYWVDSSATSPWAPPGSVFSCPSSGPRGPGQRRPPPPPPPPSPLPPPSQPPPLPPLSPLKKKDNIELWLPVIFFMVLVALVGMGLGMYQLFHLQKELAELREFTNHSLRVSSFEKQIANPSTPSETKKPRSVAHLTGNPRSRSIPLEWEDTYGTALISGVKYKKGGLVINEAGLYFVYSKVYFRGQSCNSQPLSHKVYMRNFKYPGDLVLMEEKKLNYCTTGQIWAHSSYLGAVFNLTVADHLYVNISQLSLINFEESKTFFGLYKL |
| 3110 | sp|Q9BXR5|TLR10\_HUMAN | MRLIRNIYIFCSIVMTAEGDAPELPEERELMTNCSNMSLRKVPADLTPATTTLDLSYNLLFQLQSSDFHSVSKLRVLILCHNRIQQLDLKTFEFNKELRYLDLSNNRLKSVTWYLLAGLRYLDLSFNDFDTMPICEEAGNMSHLEILGLSGAKIQKSDFQKIAHLHLNTVFLGFRTLPHYEEGSLPILNTTKLHIVLPMDTNFWVLLRDGIKTSKILEMTNIDGKSQFVSYEMQRNLSLENAKTSVLLLNKVDLLWDDLFLILQFVWHTSVEHFQIRNVTFGGKAYLDHNSFDYSNTVMRTIKLEHVHFRVFYIQQDKIYLLLTKMDIENLTISNAQMPHMLFPNYPTKFQYLNFANNILTDELFKRTIQLPHLKTLILNGNKLETLSLVSCFANNTPLEHLDLSQNLLQHKNDENCSWPETVVNMNLSYNKLSDSVFRCLPKSIQILDLNNNQIQTVPKETIHLMALRELNIAFNFLTDLPGCSHFSRLSVLNIEMNFILSPSLDFVQSCQEVKTLNAGRNPFRCTCELKNFIQLETYSEVMMVGWSDSYTCEYPLNLRGTRLKDVHLHELSCNTALLIVTIVVIMLVLGLAVAFCCLHFDLPWYLRMLGQCTQTWHRVRKTTQEQLKRNVRFHAFISYSEHDSLWVKNELIPNLEKEDGSILICLYESYFDPGKSISENIVSFIEKSYKSIFVLSPNFVQNEWCHYEFYFAHHNLFHENSDHIILILLEPIPFYCIPTRYHKLKALLEKKAYLEWPKDRRKCGLFWANLRAAINVNVLATREMYELQTFTELNEESRGSTISLMRTDCL |
| 3111 | sp|Q9XUS7|TOCA2\_CAEEL | MIPVSRFFTVQDPSNALLSYTQKGIDFFEKLGQFSKEKAAIEEEYSTKLRSLAKKYAKKSEEDDEILKSVSYTSSFNSFLQQLDQIATRHQTSAEHIRGGVVSYVASKTCQMRSSRKNAINDLKTINDKLEDQINEMCKSGKCYLKSFKDAENSYQKFYKADKNLEISRLELEKARALANARNEACELAKQDYSALVRKTNAEQKRYHVELLPVIFARLKAVDKECIADMRQVLQKIVSFDDSLADSTEECRKIMQREVGKIDAEGDAQLVLKSVEATIEQPAPFEIEDLGDPKNCDSRTNDSADGSGGKLLKSSPSKNRIIRNFLGILKEKEADEKPEASNNDQLMYTDKSKPAHVRLSCLRSKIRDMEKQLEQAIQGREGITRLQQAYYTNPQHGNPSACTEPLISYAKKIEKLKMDIHNLKEFYAMLEMSVEEGQERSFGGRDTPDTTRSMSGSSTNQSSSKTIEDVLSGEAGNSSSADDSSKNILRQLFTTPKRLISSPKTSKSSTPTPLRRRAEISSPKILRSSFSGAIRKSLSTPDSVKVETAVTVTALFEFAKSSAETMSIEQGEILLVLEHDHGDGWTRTKNCRKHNEESGFVPTSYLQFPQ |
| 3112 | sp|O57460|TLL1\_DANRE | MDYLYSALTSKMNWIALLLAGLTFCCKVSVHSCLDYDDSYDYYEEEKTETIDYKDPCKAAVFWGDIALDDEDLKMFHIDGTIDLKQQTHGRQGHTSGGLGEHVPTKKRGSLYLLLDRIRRLGFESWPVNSSKDVSSIKTGIRRVNSARNVKSRVPRAATSRAEKIWPGGVIPYVIGGNFTGSQRAMLKQAMRHWEKQTCVTFIEKTDEESYIVFTYRPCGCCSYVGRRGNGPQAISIGKNCDKFGIVVHELGHVIGFWHEHTRPDRDDHVTIIRDNIQPGQEYNFIKMEPGDVNSLGEPYDFDSIMHYARNTFSRGMFLDTILPSRDENGVRPAIGQRTRLSKGDISQAKKLYRCPACGETLQDSVGNFSSPGYPNGYPSYTHCVWRISVTPGEKIVLNFTTMDLYKSSLCWYDYIEVRDGYWRKAPLLGRFCGDKIPEVLVSTDSRMWIEFRSSSNWVGKGFAAVYEAICGGEISKDSGQIQSPNYPDDYRPSKECVWRITVSEGYSVGLSFQVFEIERHDSCAYDYLEVRDGLSENSPLIGRFCGYDKPEDIRSTSNNLWMKFVSDGTVNKAGFAANFFKEEDECLKPDNGGCEQRCVNTLGSFKCACDPGYELAPDKKSCEAACGGLLTKLNGTITTPGWPKEYPPNKNCVWQVVAPTQYRISMQFEAFELEGNEVCKYDYVEVRSGLSSDSKLHGKYCGTEVPEVITSQYNNMRIEFKSDNTVSKKGFKAHFFSDKDECSKDNGGCQHECINTIGSYVCQCRNGFILHENKHDCKEAECEHKIHSTTGTISSPNWPDKYPSRKECTWDITATPGHRVKISFNEFEIEQHQECAYDHLEAFDGDSDKTPILSRLCGNKIPEPLISTGNKMYLRFISDASVQRKGFQATHSTECGGRLKAEARQKNLYSHAQFGDNNYPGHTDCEWLIVAESGYGIELTFTTFEVEEEADCGYDYIELYDGYDTGAHKIGRFCGSGPREELYSAGDAVLIHFHSDDTISKKGFHIRYTSTKFQEALHTRK |
| 3113 | sp|Q8HZD9|TNFA\_PANTR | MSTESMIRDVELAEEALPKKTGGPQGSRRCLFLSLFSFLIVAGATTLFCLLHFGVIGPQREEFPRDLSLISPLAQAGSSSRTPSDKPVAHVVANPQAEGQLQWLNRRANALLANGVELRDNQLVVPSEGLYLIYSQVLFKGQGCPSTHVLLTHTISRIAVSYQTKVNLLSAIKSPCQRETPEGAEAKPWYEPIYLGGVFQLEKGDRLSAEINRPDYLDFAESGQVYFGIIAL |
| 3114 | sp|Q9Y2C9|TLR6\_HUMAN | MTKDKEPIVKSFHFVCLMIIIVGTRIQFSDGNEFAVDKSKRGLIHVPKDLPLKTKVLDMSQNYIAELQVSDMSFLSELTVLRLSHNRIQLLDLSVFKFNQDLEYLDLSHNQLQKISCHPIVSFRHLDLSFNDFKALPICKEFGNLSQLNFLGLSAMKLQKLDLLPIAHLHLSYILLDLRNYYIKENETESLQILNAKTLHLVFHPTSLFAIQVNISVNTLGCLQLTNIKLNDDNCQVFIKFLSELTRGSTLLNFTLNHIETTWKCLVRVFQFLWPKPVEYLNIYNLTIIESIREEDFTYSKTTLKALTIEHITNQVFLFSQTALYTVFSEMNIMMLTISDTPFIHMLCPHAPSTFKFLNFTQNVFTDSIFEKCSTLVKLETLILQKNGLKDLFKVGLMTKDMPSLEILDVSWNSLESGRHKENCTWVESIVVLNLSSNMLTDSVFRCLPPRIKVLDLHSNKIKSVPKQVVKLEALQELNVAFNSLTDLPGCGSFSSLSVLIIDHNSVSHPSADFFQSCQKMRSIKAGDNPFQCTCELREFVKNIDQVSSEVLEGWPDSYKCDYPESYRGSPLKDFHMSELSCNITLLIVTIGATMLVLAVTVTSLCIYLDLPWYLRMVCQWTQTRRRARNIPLEELQRNLQFHAFISYSEHDSAWVKSELVPYLEKEDIQICLHERNFVPGKSIVENIINCIEKSYKSIFVLSPNFVQSEWCHYELYFAHHNLFHEGSNNLILILLEPIPQNSIPNKYHKLKALMTQRTYLQWPKEKSKRGLFWANIRAAFNMKLTLVTENNDVKS |
| 3115 | sp|O35714|TNR18\_MOUSE | MGAWAMLYGVSMLCVLDLGQPSVVEEPGCGPGKVQNGSGNNTRCCSLYAPGKEDCPKERCICVTPEYHCGDPQCKICKHYPCQPGQRVESQGDIVFGFRCVACAMGTFSAGRDGHCRLWTNCSQFGFLTMFPGNKTHNAVCIPEPLPTEQYGHLTVIFLVMAACIFFLTTVQLGLHIWQLRRQHMCPRETQPFAEVQLSAEDACSFQFPEEERGEQTEEKCHLGGRWP |
| 3116 | sp|Q6T752|TLR2\_HORSE | MPHALWTVWVLGAVISLSKEGVPDQPSSLSCDPTGVCDGRSRSLNSIPSGLTAAVKSLDLSNNKIASVGNSDLWKCVNLKALRLGSNDINTIEEDSFSSLRSLEHLDLSNNHLSNLSSSWFRPLSSLKFLNLLGSTYKTLGETSLFSHLTNLRILKVGNIHFTEIQGKDFAGLTFLEELEIDATNLQRYEPKSFKSIQNISHLILRMKQPVLLPEIILDTLSSLEYLELRDTYLNTFHFAEVSDPETNTLIKKFTFRNVKITDESFDEIVKLLNYISGVSEAEFDECTLDGLGEFRTPDIDKIKVIGKLETLTIRRLRIPQFYLFRDLSSIYSLTERVKRITIENSKVFLVPCSLSRHLKSLEYLDLSDNLMVEEYLKNSACERAWPSLQTLILRQNHLTSLGKTGETLLTLKNLTKLDISKNSFHSMPETCQWPEKMKYLNLSSIRIDRLTQCIPQTLEVLDISNNNLNSFSLILPQVKELYISRNKLKTLPDASFLPMLLVMRISRKTINTFSKEQLDSFQKLKTLEAGGNNFICSCEFLSFTQEEQALDQILIDWPENYLCDSPSHVRGQRVQDTHLSVSECHRTALVSAVCCALFLSILLTGVLCHHFHGLWYMKMMWAWLQAKRKPRTAPQRDICYDAFVSYSERDSYWVENLMVQELEHFNPPFKLCLHKRDFIPGKWIIDNIIDSIEKSHKTIFVLSENFVKSEWCKYELDFSHFRLFDENNDAAILILLEPIDKKAIPQRFCKLRKIMNTKTYLEWPTDEAQQEGFWLNLRAAIKS |
| 3117 | sp|Q99NH8|TREM2\_MOUSE | MGPLHQFLLLLITALSQALNTTVLQGMAGQSLRVSCTYDALKHWGRRKAWCRQLGEEGPCQRVVSTHGVWLLAFLKKRNGSTVIADDTLAGTVTITLKNLQAGDAGLYQCQSLRGREAEVLQKVLVEVLEDPLDDQDAGDLWVPEESSSFEGAQVEHSTSRNQETSFPPTSILLLLACVLLSKFLAASILWAVARGRQKPGTPVVRGLDCGQDAGHQLQILTGPGGT |
| 3118 | sp|Q9UJA5|TRM6\_HUMAN | MEGSGEQPGPQPQHPGDHRIRDGDFVVLKREDVFKAVQVQRRKKVTFEKQWFYLDNVIGHSYGTAFEVTSGGSLQPKKKREEPTAETKEAGTDNRNIVDDGKSQKLTQDDIKALKDKGIKGEEIVQQLIENSTTFRDKTEFAQDKYIKKKKKKYEAIITVVKPSTRILSIMYYAREPGKINHMRYDTLAQMLTLGNIRAGNKMIVMETCAGLVLGAMMERMGGFGSIIQLYPGGGPVRAATACFGFPKSFLSGLYEFPLNKVDSLLHGTFSAKMLSSEPKDSALVEESNGTLEEKQASEQENEDSMAEAPESNHPEDQETMETISQDPEHKGPKERGSKKDYIQEKQRRQEEQRKRHLEAAALLSERNADGLIVASRFHPTPLLLSLLDFVAPSRPFVVYCQYKEPLLECYTKLRERGGVINLRLSETWLRNYQVLPDRSHPKLLMSGGGGYLLSGFTVAMDNLKADTSLKSNASTLESHETEEPAAKKRKCPESDS |
| 3119 | sp|D3ZQL7|TPPP\_RAT | MADSKAKPTKAANKTPPKSPGDPAKAAKRLSLESEGANEGAAAAPELSALEEAFRRFAVHGDTRATGKEMHGKNWSKLCKDCHVIDGKNVTVTDVDIVFSKIKGKSCRTITFEQFQEALEELAKKRFKDKSSEEAVREVHRLIEGRAPVISGVTKAVSSPTVSRLTDTSKFTGSHKERFDQSGKGKGKAGRVDLVDESGYVPGYKHAGTYDQKVQGGK |
| 3120 | sp|Q9QX75|TRDN\_RAT | MTEITAEGNASITTTVIDNKNGSVPKSPGKVLKRTVTEDIVTTFSSPAAWLLVIALIITWSAVAIVMFDLVDYKNFSASSIAKIGSDPLKLVNDAVEETTDWIYGFFSLLSDIISSDGDEDDEDADEDIDKGEIEEPPLKRKEIQKEKAEKQEKPEKKIQTKVSHREKEKGKEKLKGEKPEKKATHKEKLEKKERTETKMAAKEDKKIKTKEKTEEKAKKEMKVGKQEKAKPAAAKAKETPKTTPKAREKDDKETPAVPKHEQKDQYAFCRYMIDMFVHGDLKPGQSPAVPPPSLTASRPALSTPSLEEKEKEEKKKVEKKVTSDTKKKEKGEAKKKSEKETVIDGKGKEPGKPPETKQTTTKLTTQAAATKDEKKEDSKKMKKPPEEKPKGKKQEKKEKHIEPAKTPKKEHPAPSEKHRKAKAEQAKEEIAPASTKKALHGKKEEKAKTVEQGKDVKPKLPQPQLKKEEKSEPQPKKEVKLETQLKKEEKSEPQVKKEAKLASSEKGQTRKQNITRPEQVIPHGKPEQKVPKQIKAITAEKTEKAERQEKYHPSIKTEGKPEVTDSGKKKIEKPEKESKVPPKQENLQVRNVTRAEKRGKISKDSKDAPAPKKDKDSKDVLHSKKDKEVTNNVSSPKKQKSPISFFQCVYLDGYNGYGFQFPVTPVQHSGENPGKSNSPGQKQQEQ |
| 3121 | sp|A0A193KX02|TOMT\_DANRE | MVSPAIALAFLPLLLTLIIRYRYYFVLLYRAVLTRWVRDCLSGISREERAFQYILTHATPGDSQSILDTFDTWCSKVEFISNIGPKKGKILDRLLQENCPITVLELGTHCGYSTVRMARSLPIGARIYSVEMDQRNAQVAEKIIRLAGFDDDMVELIQRPSDEVIPRLREDLGVERLDLVLMDHWKRCYLPDLHLLEDSGLIGQGSIILADNVIFPGAPNFLRYARRCGLYEVRVHRATLEYMRGIPDGMAELTYIGIK |
| 3122 | sp|Q8IN44|TOTA\_DROME | MNSSTALMCFALLLISPLCMGYSDEDREADNLRIAEIIKNAQDDDSKINSTQELLDIYRRLYPSLTPEERESIDKFVNEHTDAIIIDGVPIQGGRKARIVGKIVSPGVKGLATGFFEELGSKLAQLFTG |
| 3123 | sp|O60481|ZIC3\_HUMAN | MTMLLDGGPQFPGLGVGSFGAPRHHEMPNREPAGMGLNPFGDSTHAAAAAAAAAAFKLSPAAAHDLSSGQSSAFTPQGSGYANALGHHHHHHHHHHHTSQVPSYGGAASAAFNSTREFLFRQRSSGLSEAASGGGQHGLFAGSASSLHAPAGIPEPPSYLLFPGLHEQGAGHPSPTGHVDNNQVHLGLRGELFGRADPYRPVASPRTDPYAAGAQFPNYSPMNMNMGVNVAAHHGPGAFFRYMRQPIKQELSCKWIDEAQLSRPKKSCDRTFSTMHELVTHVTMEHVGGPEQNNHVCYWEECPREGKSFKAKYKLVNHIRVHTGEKPFPCPFPGCGKIFARSENLKIHKRTHTGEKPFKCEFEGCDRRFANSSDRKKHMHVHTSDKPYICKVCDKSYTHPSSLRKHMKVHESQGSDSSPAASSGYESSTPPAIASANSKDTTKTPSAVQTSTSHNPGLPPNFNEWYV |
| 3124 | sp|Q9R0G7|ZEB2\_MOUSE | MKQPIMADGPRCKRRKQANPRRKNVVNYDNVVDAGSETDEEDKLHIAEDDSLANPLDQDTSPASMPNHESSPHMSQGLLPREEEEEELRESVVEHSWHSGEILQASVAGPEEMKEDYDAMGPEATIQTTINNGTVKNANCTSDFEEYFAKRKLEERDGHAVSIEEYLQRSDTAIIYPEAPEELSRLGTPEANGQEENDLPPGTPDAFAQLLTCPYCDRGYKRLTSLKEHIKYRHEKNEENFSCPLCSYTFAYRTQLERHMVTHKPGTDQHQMLTQGAGNRKFKCTECGKAFKYKHHLKEHLRIHSGEKPYECPNCKKRFSHSGSYSSHISSKKCIGLISVNGRMRNNIKTGSSPNSVSSSPTNSAITQLRNKLENGKPLSMSEQTGLLKIKTEPLDFNDYKVLMATHGFSGSSPFMNGGLGATSPLGVHPSAQSPMQHLGVGMEAPLLGFPTMNSNLSEVQKVLQIVDNTVSRQKMDCKTEDISKLKGYHMKDPCSQPEEQGVTSPNIPPVGLPVVSHNGATKSIIDYTLEKVNEAKACLQSLTTDSRRQISNIKKEKLRTLIDLVTDDKMIENHSISTPFSCQFCKESFPGPIPLHQHERYLCKMNEEIKAVLQPHENIVPNKAGVFVDNKALLLSSVLSEKGLTSPINPYKDHMSVLKAYYAMNMEPNSDELLKISIAVGLPQEFVKEWFEQRKVYQYSNSRSPSLERTSKPLAPNSNPTTKDSLLPRSPVKPMDSITSPSIAELHNSVTSCDPPLRLTKSSHFTNIKAVDKLDHSRSNTPSPLNLSSTSSKNSHSSSYTPNSFSSEELQAEPLDLSLPKQMREPKGIIATKNKTKATSINLDHNSVSSSSENSDEPLNLTFIKKEFSNSNNLDNKSNNPVFGMNPFSAKPLYTPLPPQSAFPPATFMPPVQTSIPGLRPYPGLDQMSFLPHMAYTYPTGAATFADMQQRRKYQRKQGFQGDLLDGAQDYMSGLDDMTDSDSCLSRKKIKKTESGMYACDLCDKTFQKSSSLLRHKYEHTGKRPHQCQICKKAFKHKHHLIEHSRLHSGEKPYQCDKCGKRFSHSGSYSQHMNHRYSYCKREAEEREAAEREAREKGHLEPTELLMNRAYLQSITPQGYSDSEERESMPRDGESEKEHEKEGEEGYGKLRRRDGDEEEEEEEEESENKSMDTDPETIRDEEETGDHSMDDSSEDGKMETKSDHEEDNMEDGME |
| 3125 | sp|Q91VL9|ZBTB1\_MOUSE | MAKPSHSSYVLQQLNNQREWGFLCDCCIAIDDIYFQAHKAVLAACSSYFRMFFMNHQHSTAQLNLSNMKISAECFDLILQFMYLGKIMTAPSSFEQFKVAMNYLQLYNVPDCLEDIQDADCSSSKCSSSASSRQSSKMIFGVRMYEDTVARNGNEANRWCAEPSSTVNTPHHREPEEESLQLANFPEPLFDVCKKSSVSKLSTPKERVSRRFGRSFTCDSCGFGFSCEKLLDEHVLTCTNRHSYQNTTRAYHRIVDIRDGKDSNIKAELAEKDSSKTFSAQPDKYREDANQAPDDSASTTGSRKSTVEAGIAGEEKSRATETKRIIIKMEPEDIPADDMKDFNIIKVTEKDCNESTDNDELEDEPEEPFYRYYVEEDVGIKKSGRKTLKPRMSISVDERGGLENMRPPNNTSPIQEDAENASCELCGLTITEEDLSSHYLAKHIENICACGKCGQILVKGRQLQEHAQRCGEPQDLTMNGLGNADEKMDMEENPDEQSEIRDMFVEMLDDFRDNHYQINSIQKKQLFKHSACPFRCPNCGQRFETENLVVEHMSSCLDQDMFKGAIMEENERDHRRKHFCNLCGKGFYQRCHLREHYTVHTKEKQFVCQTCGKQFLRERQLRLHNDMHKGMARYVCSICDQGNFRKHDHVRHMISHLSGGETICQVCFQIFPNNEQLEQHMDVHLYTCGICGAKFNLRKDMRSHYNAKHLKRT |
| 3126 | sp|Q6P2D0|ZFP1\_HUMAN | MNKSQGSVSFTDVTVDFTQEEWEQLDPSQRILYMDVMLENYSNLLSVEVWKADDQMERDHRNPDEQARQFLILKNQTPIEERGDLFGKALNLNTDFVSLRQVPYKYDLYEKTLKYNSDLLNSNRSYAGKQTDECNEFGKALLYLKQEKTHSGVEYSEYNKSGKALSHKAAIFKHQKIKNLVQPFICTYCDKAFSFKSLLISHKRIHTGEKPYECNVCKKTFSHKANLIKHQRIHTGEKPFECPECGKAFTHQSNLIVHQRAHMEKKPYECSECGKTFAQKFELTTHQRIHTGERPYECNECAKTFFKKSNLIIHQKIHTGEKRYECSECGKSFIQNSQLIIHMRTHTGEKPYECTECGKTFSQRSTLRLHLRIHTGEKPYECSECGKAFSRKSRLSVHQRVHIGEKP |
| 3127 | sp|P22227|ZFP42\_MOUSE | MNEQKMNEQMKKTAKTSGQKGPGGRALDRLTLKQDEARPVQNTRVEAPRVTYTIRDESEISPETEEDGFPDGYLECIIRGEFSEPILEEDFLFKSFESLEEVEQNLSRQVLEASSLLESSLEYMTKGTKQEKTEVTQETPPLRVGASSLLAGGPAEKPEGGVYCGVLSMLECPQAGCKKKLRGKTALRKHMLVHGPRRHVCAECGKAFTESSKLKRHFLVHTGEKPYQCTFEGCGKRFSLDFNLRTHIRIHTGERRFVCPFDGCEKSFIQSNNQKIHILTHAKAGKKC |
| 3128 | sp|Q9LPL4|SKP2A\_ARATH | MVMGGEASMELDQCFQKMKMEGISIKEWKDIPVELLMRILSLVDDRNVIVASGVCTGWRDAISFGLTRLRLSWCNNNMNSLVLSLVPKFVKLQTLNLRQDKPQLEDNAVEAIANHCHELQELDLSKSLKITDRSLYALAHGCPDLTKLNLSGCTSFSDTAIAYLTRFCRKLKVLNLCGCVKAVTDNALEAIGNNCNQMQSLNLGWCENISDDGVMSLAYGCPDLRTLDLCGCVLITDESVVALADWCVHLRSLGLYYCRNITDRAMYSLAQSGVKNKPGSWKSVKKGKYDEEGLRSLNISQCTALTPSAVQAVCDSFPALHTCSGRHSLVMSGCLNLTTVHCACILQAHRAHNAVPHPAH |
| 3129 | sp|P0C093|SLMA\_ECOLI | MAEKQTAKRNRREEILQSLALMLESSDGSQRITTAKLAASVGVSEAALYRHFPSKTRMFDSLIEFIEDSLITRINLILKDEKDTTARLRLIVLLLLGFGERNPGLTRILTGHALMFEQDRLQGRINQLFERIEAQLRQVLREKRMREGEGYTTDETLLASQILAFCEGMLSRFVRSEFKYRPTDDFDARWPLIAAQLQ |
| 3130 | sp|Q9Y448|SKAP\_HUMAN | MAAPEAPPLDRVFRTTWLSTECDSHPLPPSYRKFLFETQAADLAGGTTVAAGNLLNESEKDCGQDRRAPGVQPCRLVTMTSVVKTVYSLQPPSALSGGQPADTQTRATSKSLLPVRSKEVDVSKQLHSGGPENDVTKITKLRRENGQMKATDTATRRNVRKGYKPLSKQKSEEELKDKNQLLEAVNKQLHQKLTETQGELKDLTQKVELLEKFRDNCLAILESKGLDPALGSETLASRQESTTDHMDSMLLLETLQEELKLFNETAKKQMEELQALKVKLEMKEERVRFLEQQTLCNNQVNDLTTALKEMEQLLEM |
| 3131 | sp|Q13239|SLAP1\_HUMAN | MGNSMKSTPAPAERPLPNPEGLDSDFLAVLSDYPSPDISPPIFRRGEKLRVISDEGGWWKAISLSTGRESYIPGICVARVYHGWLFEGLGRDKAEELLQLPDTKVGSFMIRESETKKGFYSLSVRHRQVKHYRIFRLPNNWYYISPRLTFQCLEDLVNHYSEVADGLCCVLTTPCLTQSTAAPAVRASSSPVTLRQKTVDWRRVSRLQEDPEGTENPLGVDESLFSYGLRESIASYLSLTSEDNTSFDRKKKSISLMYGGSKRKSSFFSSPPYFED |
| 3132 | sp|Q9BRV3|SWET1\_HUMAN | MEAGGFLDSLIYGACVVFTLGMFSAGLSDLRHMRMTRSVDNVQFLPFLTTEVNNLGWLSYGALKGDGILIVVNTVGAALQTLYILAYLHYCPRKRVVLLQTATLLGVLLLGYGYFWLLVPNPEARLQQLGLFCSVFTISMYLSPLADLAKVIQTKSTQCLSYPLTIATLLTSASWCLYGFRLRDPYIMVSNFPGIVTSFIRFWLFWKYPQEQDRNYWLLQT |
| 3133 | sp|O61122|SVKA\_DICDI | MASKKGDPEELYVRQEKIGKGSFGEVFKGINKKTNETIAIKTIDLEDAEDEIEDIQQEINVLSQCESPFVTKYFGSFLKGSKLWIIMEYLAGGSVLDLMKPGPFDEGYIAIILRELLKGLEYLHSEGKIHRDIKAANVLLSASGDVKLADFGVSGQLTDQMTKRNTFVGTPFWMAPEVIKQTGYDSKADIWSMGITALEMAKGEPPRADLHPMRALFLIPKDPPPTLEGNFSKGFKEFCALCLNKDPNQRPTAKDLLKHKFIKAAKKTSSLTDLIERRQKWLQLNGNNADDENDDLDRDAKSNEEDFGWEFPTIKQKSPVAVQEQQQTPQKPTVVSTPIKEQQQQQQPTPVTTPQQPVTTTTTTPTTETKVRSLSNSSQTTPVKTTVAATTAPATTPASNAPTSTTPNGAAVTQQQAPRASALTSVIYPVLSKLLKNTSDENVINALAQLKMAFDNAEKAKPGITHSLIAQIIETLKR |
| 3134 | sp|Q08850|STX4\_RAT | MRDRTHELRQGDNISDDEDEVRVALVVHSGAARLSSPDDEFFQKVQTIRQTMAKLESKVRELEKQQVTILATPLPEESMKQGLQNLREEIKQLGREVRAQLKAIEPQKEEADENYNSVNTRMKKTQHGVLSQQFVELINKCNSMQSEYREKNVERIRRQLKITNAGMVSDEELEQMLDSGQSEVFVSNILKDTQVTRQALNEISARHSEIQQLERTIRELHEIFTFLATEVEMQGEMINRIEKNILSSADYVERGQEHVKIALENQKKARKKKVMIAICVSVTVLILAVIIGITITVG |
| 3135 | sp|P25159|STAU\_DROME | MQHNVHAARPAPHIRAAHHHSHSHAHMHLHPGMEQHLGPSLQQQQQPPPPPQQPPHRDLHARLNHHHLHAQQQQQQQTSSNQAGAVAAAGAAYHHGNINSNSGSNISSNSNQMQKIRQQHQHLSSSNGLLGNQPPGPPPQAFNPLAGNPAALAYNQLPPHPPHHMAAHLGSYAAPPPHYYMSQAKPAKYNHYGSNANSNSGSNNSNSNYAPKAILQNTYRNQKVVVPPVVQEVTPVPEPPVTTNNATTNSTSNSTVIASEPVTQEDTSQKPETRQEPASADDHVSTGNIDATGALSNEDTSSSGRGGKDKTPMCLVNELARYNKITHQYRLTEERGPAHCKTFTVTLMLGDEEYSADGFKIKKAQHLAASKAIEETMYKHPPPKIRRSEEGGPMRTHITPTVELNALAMKLGQRTFYLLDPTQIPPTDSIVPPEFAGGHLLTAPGPGMPQPPPPPAYALRQRLGNGFVPIPSQPMHPHFFHGPGQRPFPPKFPSRFALPPPLGAHVHHGPNGPFPSVPTPPSKITLFVGKQKFVGIGRTLQQAKHDAAARALQVLKTQAISASEEALEDSMDEGDKKSPISQVHEIGIKRNMTVHFKVLREEGPAHMKNFITACIVGSIVTEGEGNGKKVSKKRAAEKMLVELQKLPPLTPTKQTPLKRIKVKTPGKSGAAAREGSVVSGTDGPTQTGKPERRKRLNPPKDKLIDMDDADNPITKLIQLQQTRKEKEPIFELIAKNGNETARRREFVMEVSASGSTARGTGNSKKLAKRNAAQALFELLEAVQVTPTNETQSSEECSTSATMSAVTAPAVEATAEGKVPMVATPVGPMPGILILRQNKKPAKKRDQIVIVKSNVESKEEEANKEVAVAAEENSNNSANSGDSSNSSSGDSQATEAASESALNTSTGSNTSGVSSNSSNVGANTDGNNHAESKNNTESSSNSTSNTQSAGVHMKEQLLYLSKLLDFEVNFSDYPKGNHNEFLTIVTLSTHPPQICHGVGKSSEESQNDAASNALKILSKLGLNNAMK |
| 3136 | sp|P58405|STRN3\_RAT | MDELAGGGGGQGMAVPPRPQQGPGGNLSLPPGANGAPGGGGPPAAETAGPPAGPELSRPQQYTIPGILHYIQHEWARFEMERAHWEVERAELQARIAFLQGERKGQENLKKDLVRRIKMLEYALKQERAKYHKLKYGTELNQGDLKMPTFESEETKDAEAPPAQNSQLTWKQGRQLLRQYLQEVGYTDTILDVRSQRVRSLLGLSNSEPNGSIEAKNLEQILNGGESPKQKGQEIKRPSGDVLETFNFLENADDSDEEENDMIEGIPEGKDKLRIHKHKIGNEGLAADLTDDPDTEEALKEFDFLVTAEDGEGAGEARSSGDGTEWDKDDLSPTAEVWDVDQGLMSKLKEQYKKERKGKRGAKRVNRTNLCDMITDLGDDELPHIPSGIINQSRSASTRMTDHEGSRAEEAEPITFPSGGGKSFIMGSDDVLLSVLGLGDLADLTVTNDADYSYDLPANKDALRKTWNPKYTLRSHFDGVRALAFHPVEPVLVTASEDHTLKLWNLQKTVPAKKSASLDVEPIYTFRAHIGPVLSLAISSNGEQCFSGGIDATIQWWNMPSPNVDPYDTYESHVLAGTLVAHTDAVWGLAYSGIKNQLLSCSADGTIRLWNPQEKLPCICTYNGDKEHGIPTSVDFIGCDPAHMVTSFNTGSAIIYDLETSQSLVMLSSQVDSGLQSSNHINRVVSHPTLPVTITAHEDRHIKFFDNKTGKMIHSMVAHLDAVTSLAVDPNGIYLMSGSHDCSIRLWNLDSKTCVQEITAHRKKLDESIYDVAFHPSKAYIASAGADALAKVFV |
| 3137 | sp|Q9S850|SUOX\_ARATH | MPGIRGPSEYSQEPPRHPSLKVNAKEPFNAEPPRSALVSSYVTPVDLFYKRNHGPIPIVDHLQSYSVTLTGLIQNPRKLFIKDIRSLPKYNVTATLQCAGNRRTAMSKVRNVRGVGWDVSAIGNAVWGGAKLADVLELVGIPKLTASTNLGARHVEFVSVDRCKEENGGPYKASITLSQATNPEADVLLAYEMNGETLNRDHGFPLRVVVPGVIGARSVKWLDSINVIAEESQGFFMQKDYKMFPPSVNWDNINWSSRRPQMDFPVQSAICSVEDVQMVKPGKVSIKGYAVSGGGRGIERVDISLDGGKNWVEASRTQEPGKQYISEHSSSDKWAWVLFEATIDVSQTTEVIAKAVDSAANVQPENVESVWNLRGVLNTSWHRVLLRLGHSNL |
| 3138 | sp|O95363|SYFM\_HUMAN | MVGSALRRGAHAYVYLVSKASHISRGHQHQAWGSRPPAAECATQRAPGSVVELLGKSYPQDDHSNLTRKVLTRVGRNLHNQQHHPLWLIKERVKEHFYKQYVGRFGTPLFSVYDNLSPVVTTWQNFDSLLIPADHPSRKKGDNYYLNRTHMLRAHTSAHQWDLLHAGLDAFLVVGDVYRRDQIDSQHYPIFHQLEAVRLFSKHELFAGIKDGESLQLFEQSSRSAHKQETHTMEAVKLVEFDLKQTLTRLMAHLFGDELEIRWVDCYFPFTHPSFEMEINFHGEWLEVLGCGVMEQQLVNSAGAQDRIGWAFGLGLERLAMILYDIPDIRLFWCEDERFLKQFCVSNINQKVKFQPLSKYPAVINDISFWLPSENYAENDFYDLVRTIGGDLVEKVDLIDKFVHPKTHKTSHCYRITYRHMERTLSQREVRHIHQALQEAAVQLLGVEGRF |
| 3139 | sp|Q8PDA8|T23O\_XANCP | MPVDKNLRDLEPGIHTDLEGRLTYGGYLRLDQLLSAQQPLSEPAHHDEMLFIIQHQTSELWLKLLAHELRAAIVHLQRDEVWQCRKVLARSKQVLRQLTEQWSVLETLTPSEYMGFRDVLGPSSGFQSLQYRYIEFLLGNKNPQMLQVFAYDPAGQARLREVLEAPSLYEEFLRYLARFGHAIPQQYQARDWTAAHVADDTLRPVFERIYENTDRYWREYSLCEDLVDVETQFQLWRFRHMRTVMRVIGFKRGTGGSSGVGFLQQALALTFFPELFDVRTSVGVDNRPPQGSADAGKR |
| 3140 | sp|Q8NHU6|TDRD7\_HUMAN | MLEGDLVSKMLRAVLQSHKNGVALPRLQGEYRSLTGDWIPFKQLGFPTLEAYLRSVPAVVRIETSRSGEITCYAMACTETARIAQLVARQRSSKRKTGRQVNCQMRVKKTMPFFLEGKPKATLRQPGFASNFSVGKKPNPAPLRDKGNSVGVKPDAEMSPYMLHTTLGNEAFKDIPVQRHVTMSTNNRFSPKASLQPPLQMHLSRTSTKEMSDNLNQTVEKPNVKPPASYTYKMDEVQNRIKEILNKHNNGIWISKLPHFYKELYKEDLNQGILQQFEHWPHICTVEKPCSGGQDLLLYPAKRKQLLRSELDTEKVPLSPLPGPKQTPPLKGCPTVMAGDFKEKVADLLVKYTSGLWASALPKAFEEMYKVKFPEDALKNLASLSDVCSIDYISGNPQKAILYAKLPLPTDKIQKDAGQAHGDNDIKAMVEQEYLQVEESIAESANTFMEDITVPPLMIPTEASPSVLVVELSNTNEVVIRYVGKDYSAAQELMEDEMKEYYSKNPKITPVQAVNVGQLLAVNAEEDAWLRAQVISTEENKIKVCYVDYGFSENVEKSKAYKLNPKFCSLSFQATKCKLAGLEVLSDDPDLVKVVESLTCGKIFAVEILDKADIPLVVLYDTSGEDDININATCLKAICDKSLEVHLQVDAMYTNVKVTNICSDGTLYCQVPCKGLNKLSDLLRKIEDYFHCKHMTSECFVSLPFCGKICLFHCKGKWLRVEITNVHSSRALDVQFLDSGTVTSVKVSELREIPPRFLQEMIAIPPQAIKCCLADLPQSIGMWTPDAVLWLRDSVLNCSDCSIKVTKVDETRGIAHVYLFTPKNFPDPHRSINRQITNADLWKHQKDVFLSAISSGADSPNSKNGNMPMSGNTGENFRKNLTDVIKKSMVDHTSAFSTEELPPPVHLSKPGEHMDVYVPVACHPGYFVIQPWQEIHKLEVLMEEMILYYSVSEERHIAVEKDQVYAAKVENKWHRVLLKGILTNGLVSVYELDYGKHELVNIRKVQPLVDMFRKLPFQAVTAQLAGVKCNQWSEEASMVFRNHVEKKPLVALVQTVIENANPWDRKVVVYLVDTSLPDTDTWIHDFMSEYLIELSKVN |
| 3141 | sp|P14079|TAX\_HTL1C | MAHFPGFGQSLLFGYPVYVFGDCVQGDWCPISGGLCSARLHRHALLATCPEHQITWDPIDGRVIGSALQFLIPRLPSFPTQRTSKTLKVLTPPITHTTPNIPPSFLQAMRKYSPFRNGYMEPTLGQHLPTLSFPDPGLRPQNLYTLWGGSVVCMYLYQLSPPITWPLLPHVIFCHPGQLGAFLTNVPYKRIEKLLYKISLTTGALIILPEDCLPTTLFQPARAPVTLTAWQNGLLPFHSTLTTPGLIWTFTDGTPMISGPCPKDGQPSLVLQSSSFIFHKFQTKAYHPSFLLSHGLIQYSSFHNLHLLFEEYTNIPISLLFNEKEADDNDHEPQISPGGLEPLSEKHFRETEV |
| 3142 | sp|Q92844|TANK\_HUMAN | MDKNIGEQLNKAYEAFRQACMDRDSAVKELQQKTENYEQRIREQQEQLSLQQTIIDKLKSQLLLVNSTQDNNYGCVPLLEDSETRKNNLTLDQPQDKVISGIAREKLPKVRRQEVSSPRKETSARSLGSPLLHERGNIEKTFWDLKEEFHKICMLAKAQKDHLSKLNIPDTATETQCSVPIQCTDKTDKQEALFKPQAKDDINRGAPSITSVTPRGLCRDEEDTSFESLSKFNVKFPPMDNDSTFLHSTPERPGILSPATSEAVCQEKFNMEFRDNPGNFVKTEETLFEIQGIDPIASAIQNLKTTDKTKPSNLVNTCIRTTLDRAACLPPGDHNALYVNSFPLLDPSDAPFPSLDSPGKAIRGPQQPIWKPFPNQDSDSVVLSGTDSELHIPRVCEFCQAVFPPSITSRGDFLRHLNSHFNGET |
| 3143 | sp|Q6N021|TET2\_HUMAN | MEQDRTNHVEGNRLSPFLIPSPPICQTEPLATKLQNGSPLPERAHPEVNGDTKWHSFKSYYGIPCMKGSQNSRVSPDFTQESRGYSKCLQNGGIKRTVSEPSLSGLLQIKKLKQDQKANGERRNFGVSQERNPGESSQPNVSDLSDKKESVSSVAQENAVKDFTSFSTHNCSGPENPELQILNEQEGKSANYHDKNIVLLKNKAVLMPNGATVSASSVEHTHGELLEKTLSQYYPDCVSIAVQKTTSHINAINSQATNELSCEITHPSHTSGQINSAQTSNSELPPKPAAVVSEACDADDADNASKLAAMLNTCSFQKPEQLQQQKSVFEICPSPAENNIQGTTKLASGEEFCSGSSSNLQAPGGSSERYLKQNEMNGAYFKQSSVFTKDSFSATTTPPPPSQLLLSPPPPLPQVPQLPSEGKSTLNGGVLEEHHHYPNQSNTTLLREVKIEGKPEAPPSQSPNPSTHVCSPSPMLSERPQNNCVNRNDIQTAGTMTVPLCSEKTRPMSEHLKHNPPIFGSSGELQDNCQQLMRNKEQEILKGRDKEQTRDLVPPTQHYLKPGWIELKAPRFHQAESHLKRNEASLPSILQYQPNLSNQMTSKQYTGNSNMPGGLPRQAYTQKTTQLEHKSQMYQVEMNQGQSQGTVDQHLQFQKPSHQVHFSKTDHLPKAHVQSLCGTRFHFQQRADSQTEKLMSPVLKQHLNQQASETEPFSNSHLLQHKPHKQAAQTQPSQSSHLPQNQQQQQKLQIKNKEEILQTFPHPQSNNDQQREGSFFGQTKVEECFHGENQYSKSSEFETHNVQMGLEEVQNINRRNSPYSQTMKSSACKIQVSCSNNTHLVSENKEQTTHPELFAGNKTQNLHHMQYFPNNVIPKQDLLHRCFQEQEQKSQQASVLQGYKNRNQDMSGQQAAQLAQQRYLIHNHANVFPVPDQGGSHTQTPPQKDTQKHAALRWHLLQKQEQQQTQQPQTESCHSQMHRPIKVEPGCKPHACMHTAPPENKTWKKVTKQENPPASCDNVQQKSIIETMEQHLKQFHAKSLFDHKALTLKSQKQVKVEMSGPVTVLTRQTTAAELDSHTPALEQQTTSSEKTPTKRTAASVLNNFIESPSKLLDTPIKNLLDTPVKTQYDFPSCRCVEQIIEKDEGPFYTHLGAGPNVAAIREIMEERFGQKGKAIRIERVIYTGKEGKSSQGCPIAKWVVRRSSSEEKLLCLVRERAGHTCEAAVIVILILVWEGIPLSLADKLYSELTETLRKYGTLTNRRCALNEERTCACQGLDPETCGASFSFGCSWSMYYNGCKFARSKIPRKFKLLGDDPKEEEKLESHLQNLSTLMAPTYKKLAPDAYNNQIEYEHRAPECRLGLKEGRPFSGVTACLDFCAHAHRDLHNMQNGSTLVCTLTREDNREFGGKPEDEQLHVLPLYKVSDVDEFGSVEAQEEKKRSGAIQVLSSFRRKVRMLAEPVKTCRQRKLEAKKAAAEKLSSLENSSNKNEKEKSAPSRTKQTENASQAKQLAELLRLSGPVMQQSQQPQPLQKQPPQPQQQQRPQQQQPHHPQTESVNSYSASGSTNPYMRRPNPVSPYPNSSHTSDIYGSTSPMNFYSTSSQAAGSYLNSSNPMNPYPGLLNQNTQYPSYQCNGNLSVDNCSPYLGSYSPQSQPMDLYRYPSQDPLSKLSLPPIHTLYQPRFGNSQSFTSKYLGYGNQNMQGDGFSSCTIRPNVHHVGKLPPYPTHEMDGHFMGATSRLPPNLSNPNMDYKNGEHHSPSHIIHNYSAAPGMFNSSLHALHLQNKENDMLSHTANGLSKMLPALNHDRTACVQGGLHKLSDANGQEKQPLALVQGVASGAEDNDEVWSDSEQSFLDPDIGGVAVAPTHGSILIECAKRELHATTPLKNPNRNHPTRISLVFYQHKSMNEPKHGLALWEAKMAEKAREKEEECEKYGPDYVPQKSHGKKVKREPAEPHETSEPTYLRFIKSLAERTMSVTTDSTVTTSPYAFTRVTGPYNRYI |
| 3144 | sp|O04350|TBCA\_ARATH | MATIRNLKIKTSTCKRIVKELHSYEKEVEREAAKTADMKDKGADPYDLKQQENVLGESRMMIPDCHKRLESALADLKSTLAELEETDEKEGPEIEDAKKTVADVEKQFPTEDA |
| 3145 | sp|P07118|SYV\_ECOLI | MEKTYNPQDIEQPLYEHWEKQGYFKPNGDESQESFCIMIPPPNVTGSLHMGHAFQQTIMDTMIRYQRMQGKNTLWQVGTDHAGIATQMVVERKIAAEEGKTRHDYGREAFIDKIWEWKAESGGTITRQMRRLGNSVDWERERFTMDEGLSNAVKEVFVRLYKEDLIYRGKRLVNWDPKLRTAISDLEVENRESKGSMWHIRYPLADGAKTADGKDYLVVATTRPETLLGDTGVAVNPEDPRYKDLIGKYVILPLVNRRIPIVGDEHADMEKGTGCVKITPAHDFNDYEVGKRHALPMINILTFDGDIRESAQVFDTKGNESDVYSSEIPAEFQKLERFAARKAVVAAVDALGLLEEIKPHDLTVPYGDRGGVVIEPMLTDQWYVRADVLAKPAVEAVENGDIQFVPKQYENMYFSWMRDIQDWCISRQLWWGHRIPAWYDEAGNVYVGRNEDEVRKENNLGADVVLRQDEDVLDTWFSSALWTFSTLGWPENTDALRQFHPTSVMVSGFDIIFFWIARMIMMTMHFIKDENGKPQVPFHTVYMTGLIRDDEGQKMSKSKGNVIDPLDMVDGISLPELLEKRTGNMMQPQLADKIRKRTEKQFPNGIEPHGTDALRFTLAALASTGRDINWDMKRLEGYRNFCNKLWNASRFVLMNTEGQDCGFNGGEMTLSLADRWILAEFNQTIKAYREALDSFRFDIAAGILYEFTWNQFCDWYLELTKPVMNGGTEAELRGTRHTLVTVLEGLLRLAHPIIPFITETIWQRVKVLCGITADTIMLQPFPQYDASQVDEAALADTEWLKQAIVAVRNIRAEMNIAPGKPLELLLRGCSADAERRVNENRGFLQTLARLESITVLPADDKGPVSVTKIIDGAELLIPMAGLINKEDELARLAKEVAKIEGEISRIENKLANEGFVARAPEAVIAKEREKLEGYAEAKAKLIEQQAVIAAL |
| 3146 | sp|Q9D9I4|TBC20\_MOUSE | MALRPSKGDGSAGRWDRGAGKADFNAKRKKKVAEIHQALNSDPIDLAALRRMAISEGGLLTDEIRCQVWPKLLNVNTSEPPPVSRKDLRDMSKDYQQVLLDVRRSLRRFPPGMPDEQREGLQEELIDIILLVLDRNPQLHYYQGYHDIVVTFLLVVGERLATSLVEKLSTHHLRDFMDPTMDNTKHILNYLMPIIDQVSPELHDFMQSAEVGTIFALSWLITWFGHVLMDFRHVVRLYDFFLACHPLMPIYFAAVIVLYREQEVLDCDCDMASVHHLLSQIPQDLPYETLISRAGDLFVQFPPSELAREAAAQQEAERTAASTFKDFELASTQQRPDMVLRQRFRGLLRPEARTKDVLTKPRTNRFVKLAVMGLTVALGAAALAVVKSALEWAPKFQLQLFP |
| 3147 | sp|A2A9C3|SZT2\_MOUSE | MASERPEPEVEEAGQVFLLMKKDYRISRNVRLAWFLNHLHQTVQATPQELLLQSEQELEVLSVLPPGWQPDEPVVPRPFLLVPSTRVTFLAWQYRFVIELDLSPSTGIVDDSTGEILFDEVFHALSRCLGGLLRPFRVPGSCINFQPEIYVTIQAYSSIIGLQSHQVLVQGCLLDPSQREAFLQQVYEQLCLFEDKVATMLQQQYEPQGQAEDQSPESGESLGRKVGVSMVTADLGLVSMIRQGILALQLLPSNSSAGIIVITDGVTSVPDVAVCETLLNQLRSGTVACSFVQVGGVYSYDCSFGHVPNVELMKFIAMATFGSYLSTCPETEPGNLGLTVYHRAFLLYSFLRSGEALNPEYYCGSQHRLFNEHLVSASSNPALALRRKKHTEKEVPADLVSTVSVRLREGYSVREVTLAKGGSQLEVKLVLLWKHNMRIEYVAVAPWPLEPEGPRGTRVEVTMEGGYDILHDVSCALRQPIRSLYRTHVIRRFWNTLQSINQTDQMLAHLQSFSSVPEHFTLPDSTKSGVPLFYIPPGSSTPVLSLQHSGSDSSHAQFAAYWKPVLSMDANSWQRWLHMHRLVLILEHDTPLPKHLHTPGSNGRYSTIQCRISHSSLTSLLRDWSSFVLVEGYSYVKLLSSAPDQPPSSFYMVRIISKTPCMVLRLGFPIGTPAQARHKIVSGLKEEILRLRFPHRVQSKEPTPKVKRKGLGGVGGSSPSKSPPTLGPQQALSDRPCLVVLHKPLDKLLIRYEKLPLDYRAPFLLTLEPPGPLPLVSGRSASSSLASLSRYLYHRRWLWSVPSGLAPTLPLSATAQLLSVLTEVRLSEGFHFACSGEGIINMVLELPVQNEPLGQAAAEEKHTCVVQYILFPPHSTSTKDSFSTDDDNDVEVEALEGDSELNLVTEVWVEPQYGRVGPGPENWKHLQDLTYSEIPQALHPRDAACIGSLLTFEYLIQLCQSKEWGPLPPEPRLSDGLDQRGDTCVHEIPFHFDLLGLLPQCQQLQMFFLLLSREPEGVPLAEGPCPTNDMVLCLLHSCLGQELSDREIPLTPADQAAFLNEVLRRSLRDPGPEGPPVGGHAVAKDRAGNSTQASGDSTLPSQSVVIPGVLRSSISAQPPQWHCYARLLGPQHVFLTFLPATFSDVQHLTAYGLESSFQEETKPKLGDWSGAPSLKDPGATGTKATESQVPTLSVTLASDSAQDSGEPSTPSCQDLAANSGRQAPQTEGADGPRTRCPVYIYSCSLEALREQMVGLQPPQAPRDLIFRAQDLDHPSSSSAWMEPRCKEAATHCALLQEHAQRCFVRGLFRSLQQAQSVTCQDLLTAVDACEELLQEIDITSFLLALCGHTWGLPHAPPSPGPLSPGPFSSSIEEGPEPRERAILVSESSIETEDLSEPEFQSSRVSGNLDPGPEISLTDVCQLRGEAHDALHSLIQEKFLEISRLHFRTVPSNPHYFFYCPPSSRREDEGPRDTVDRKISDLEFSEAELVGEEGDTSACCVVTESDPELEVEYRESREPDLGPAGLDSASLSDADTVNPDEDSFSILGGDSPTGPDSLMHDLPPLFLHLTCSVRLRGQHSSVPVCSLPTCLGQVLSSLEGPPIGGRVPLRDLSITLDVFVLTLPLEVELPPASDPQHHRSTSESSASFPRSPGQPSSLRSDDGLGPPLPPPEEERHPGLSSLAMPHRLAIESTMNEIRWLLEDEMVGALRRGGIPQSPALHRAAAHIHSSSGRPTCLRQAPPLSFVFGPERSLTQFKEEFRRLHLPGHVLLEDPDSGFFFVAAGQQPGVLHGEPPSAAWAWHNHEDRAEDAEGEVLTASPQVPGSLEDSEGTPLISLPSLSQGGSQPGPSRGLSLMSSQGSVDSDHLGYDGGSSGSDSEGPGETLGEKALFTLRTPPGPAPPQPSLPVLPGPSLPDFWLIVRILQDRVEVYAHARSLSREDGGPGAECRHLQQFLVRRVGEICREVNQRLLLQDLHDSHVCNSLLVAESEEDLWRSETPFHSRQRAVLPSDDFAADESCAPRGYLAATMQFVPGHFSCDVVWGTVIRVHSRLKMGPSMGVSRAIQALRSVLNAFSVVNRKNMFVYQERATKAVYYLRLLETSCSDRPWEGDTLPPSLALSRSQEPISSEDSVAPRSPLDMASSRSSDAVRPVGQVDRHIQLLVHGVGQAGPEITDELVRVLRRRLDEATLDIITVMLVRNCKLTPADVEFIQPPGSLPSEVLHLVLPPSCRPCLPALAWYLRQNLLTFLHSPKYTDSNSRNHFQHPLPAQGGLPDLDIYLYNKPGGQGTGGKGVACITLAFVEEGGTPISLASWPPSSPGPPDPLREEEFEQLTQVIRCPNTLDSCSAQDGSPRLRLDVWEKGNISIVQLEEKLRAAARQALADAIMELRLLPASLCTEDIPPGSLKSGPLDTKSPACRANTFPCTPVSGEPVTPPSKAGRRSFWDMLSKTEAGDLGSPKTTDDIVLDRPEDTRGRRRHKTENVRTPGGSERAPGPDSGAQRQRRRTTQLEEGEVGTLHPVFARVIQRWMGFMVQIGCASVSRSSTHMVSRFLLPSILSEFTTLVISMAGDTSVRVFEQHLGSEPDVFSPCSPGQLGPAPRPAAQRHLLLLGRNFAQWRRPTQQAAKAVQRFESGGDGSPGRSAPRQRLLLLEVTDKKLQLLTYNWAPDLGAALGRALIRLVQWQNARAHLISCLLSQKLGLFHHCGQLDFPMRDGKEPNPFLLPTMEVETLIRNASPPLSREQGRLSGSSRGGGPLSLDTFPFDEALRDITAARPSSTGGPAPRPPDPVTYHGQQFLEIKMTERKELERQMKMENLFVTWQQRSAPASMPISAGELETLKQSSRLVHYCATALLFDPAAWLHGPPETCAPSEGQRRPCPESGSGSREVPTSCESLDVPPPGAREEPWLKELSLAFLQQYVQYLQSIGFVLVPLRPPSPARSTSRLRAMAILGTEGRGSFSCPKAKAEGSPKSTSTPVTTYHLQRALPGGIILMELTFQGCYFCVKQFALECSRIPMGQAVNSQLSLLFTEECDKVRDLMHVHSFSYDFHLRLVHQHVLGAHLALRHGYHLTTFLQHFLAHHPDGPHFGRNHIYQGTLELPTPLIAAHQLYNYVADHASSYHMKPLRMARPGGPEHNEYALVSAWHSSGSYLDSEGLRHQDDFDVSLLVCHSAAPFEEQGEAERHVLRLQFFVVLTSQRELFPRLTADMRRFRKPSRLPLEPETPGSLVGSPREASGMMLAPGPAPLFPPLAAEVGMARARLAQLVRLAGGHCRRDTLWKRLFLLEPPGPDRLRLGGRLALAELEELLEAVHAKSIADIDPQLDCFLSMTVSWYQSLIKVLLSRFPQSCRHFQSPDLGTQYLVVLNQKFTDCFVLVFLDSHLGKTSLTVVFREPFPVQPQDSESPPAQLVSTYHHLESVINTACFTLWTRLL |
| 3148 | sp|P53378|TBG\_YEAST | MGGEIITLQAGQCGNHVGKFLWSQLAKEHAIGTDGLSQLPDSSTERDDDTKPFFRENSRNKFTPRAIMMDSEPSVIADVENTFRGFFDPRNTWVASDGASAGNSWANGYDIGTRNQDDILNKIDKEIDSTDNFEGFQLLHSVAGGTGSGLGSNLLEALCDRYPKKILTTYSVFPARSSEVVVQSYNTILALRRLIEDSDATVVFDNASLLNISGKVFRNPNIDLQHTNQLISTIISSVTNSIRFPSYMYSSMSSIYSTLIPSPELHFLSPSFTPFTSDYIHDDIAHKGHSSYDVMLDLLDPSNSLVSTAMNNPTYFNVYNTIIGNVEPRQISRAMTKLQQRIKFPSWSSSAMHVNIGRRSPYLPLQPNENEVSGMMLSNMSTVVNVFENACNTFDKVFAKGAFLNNYNVGDLFQSMQNVQDEFAESREVVQSLMEDYVAAEQDSYLDDVLVDDENMVGELEEDLDADGDHKLV |
| 3149 | sp|A7T1N0|TMP2L\_NEMVE | MGKDSFTPLYDGGDSSHVHLNKFGSNQLSQSKKSWIARNFSRRECIRFVPKSHDVSRCKCGRPRERHSQQALESGQGSEEWNVASCTTKHPTNAYGEIDFEGYGGQKRAPYLRMSHDTDANLVITLMLKRWNLEIPNLVISVTGGAKSFVLKPRLREMFRRGLIKAAKTTGAWIITGGTNTGVMKHVGEAVKEQQLMFGSDTQVNVIGIATWGIVDKQSDLISEKNGKYPALYSMEPTPGHQGAMLDPNHSHFFLVDDGTEGKYGVEIGMRSRIEEAIMKVKTDSRSEAGSIGVPVVLLVLEGGPNTVATMYELIKKKVPAVVIDGSGRAASVVGFAYNHTIKRNVDGQTINVIDPQYEDEVRAKVVEVFGAKGADKTYSMIKDVLEDEKMISVYSLDGEISQDIDLAILKALLKANRSSPVAQLNLALAWNRIDLAKSDIFTEEQQWTTETLSAAMLTALLDDKAEFAELFLQNGLSMREFLSLDILCKLYAEVPGNTTIKPLLQKEMGKRQVKTIDMDVVGEVIEELMGDMFESYYRKDGHYFGELASYAEGLVLKNRKSSKDLLANINRIDPLPTPYLDVFLWAVLCNRRELARVLWEAGREPMAAALMASRLLKRMASRAQEDNTITDISSDLYDHARLFEERAVGVLDECFNENETLSQTLLVRELDHYSRMTALELAVSAESQDFIAHTSCQVLLTRLWMGTMAMNTRWWKVLVCLYLPVLIFPIIYFVPDEQHERQAAEREHQKSLNQKSSKVKSHKEKNDAPVVPVYRSKEEKAVSNDEEARVGTENEEEDFQLEDYIPEIREDDSMEVIMRNKKLGFCDRIMHFYSAPFSKFVGNVVGYLAFIFLYAYVVLFNFPRFDPAKTLGGIHPTEIVLYFWVFTILIEEIRQLAAKPPKYIKDKVSVYFSDTWNFVDIFSLTVFIIAIILRFFTNSRIFTASRIILSLDIIFFIVRSLQIFSVNRLLGPKLVMIQKMMQDLAQFIIILAVFTIAYGIALHAVMFPSPGIYARNNTWVTITSVVQYPYWQMYGELFLDEIQGEKPKEFGEVDPDGRWLSPLLLAIYMVFTNILLLNLLIAIFNYTFERVQEDSDKVWKFQRYDLVQEYHSRPVFAPPLVLLGHILIFIRWVWRMCRCGHPPRGSTMKIGLSPAEMEQMDNWEFQAAEMYIHQQQQKNSGTLEERVRALGDRVDCINSQLNRVLDSMSGTRAHALTDGNGLEGGHDSEGRLARMEVELSSNSESLQKILALLQQQPPVKGQAAVPIQLTLLHYKARSSPYPGSTAKRFAVQDNMVDWQVPFPDYKPVNYTAPVVLANPVWADKDLMAMSPRPELPYNQMDHTCNVNRVSYNGTYVVKDGLPLNPMGRTGMQGRGLLGRFGPNHAADPVVTRWKRTSAGVMLQGGKKVLEFVAIQRKDNNQWAIPGGMVEPGQLVTQALKAEFGEEAMAKLNVSQEEKERIAKQIERLFQQGQEIYKGYVDDPRNTDNAWMETVAVNFHDDKGDLFGDITLQAGDDAAAVRWQRVSGNIPLYASHVSILEKVAKMRDAAF |
| 3150 | sp|P01830|THY1\_RAT | MNPVISITLLLSVLQMSRGQRVISLTACLVNQNLRLDCRHENNTNLPIQHEFSLTREKKKHVLSGTLGVPEHTYRSRVNLFSDRFIKVLTLANFTTKDEGDYMCELRVSGQNPTSSNKTINVIRDKLVKCGGISLLVQNTSWLLLLLLSLSFLQATDFISL |
| 3151 | sp|P54837|TMEDA\_YEAST | MQVLQLWLTTLISLVVAVQGLHFDIAASTDPEQVCIRDFVTEGQLVVADIHSDGSVGDGQKLNLFVRDSVGNEYRRKRDFAGDVRVAFTAPSSTAFDVCFENQAQYRGRSLSRAIELDIESGAEARDWNKISANEKLKPIEVELRRVEEITDEIVDELTYLKNREERLRDTNESTNRRVRNFSILVIIVLSSLGVWQVNYLKNYFKTKHII |
| 3152 | sp|Q9NVV9|THAP1\_HUMAN | MVQSCSAYGCKNRYDKDKPVSFHKFPLTRPSLCKEWEAAVRRKNFKPTKYSSICSEHFTPDCFKRECNNKLLKENAVPTIFLCTEPHDKKEDLLEPQEQLPPPPLPPPVSQVDAAIGLLMPPLQTPVNLSVFCDHNYTVEDTMHQRKRIHQLEQQVEKLRKKLKTAQQRCRRQERQLEKLKEVVHFQKEKDDVSERGYVILPNDYFEIVEVPA |
| 3153 | sp|P30975|TLR2\_DROME | MENRSDFEADDYGDISWSNWSNWSTPAGVLFSAMSSVLSASNHTPLPDFGQELALSTSSFNHSQTLSTDLPAVGDVEDAAEDAAASMETGSFAFVVPWWRQVLWSILFGGMVIVATGGNLIVVWIVMTTKRMRTVTNYFIVNLSIADAMVSSLNVTFNYYYMLDSDWPFGEFYCKLSQFIAMLSICASVFTLMAISIDRYVAIIRPLQPRMSKRCNLAIAAVIWLASTLISCPMMIIYRTEEVPVRGLSNRTVCYPEWPDGPTNHSTMESLYNILIIILTYFLPIVSMTVTYSRVGIELWGSKTIGECTPRQVENVRSKRRVVKMMIVVVLIFAICWLPFHSYFIITSCYPAITEAPFIQELYLAIYWLAMSNSMYNPIIYCWMNSRFRYGFKMVFRWCLFVRVGTEPFSRRENLTSRYSCSGSPDHNRIKRNDTQKSILYTCPSSPKSHRISHSGTGRSATLRNSLPAESLSSGGSGGGGHRKRLSYQQEMQQRWSGPNSATAVTNSSSTANTTQLLS |
| 3154 | sp|O14948|TFEC\_HUMAN | MTLDHQIINPTLKWSQPAVPSGGPLVQHAHTTLDSDAGLTENPLTKLLAIGKEDDNAQWHMEDVIEDIIGMESSFKEEGADSPLLMQRTLSGSILDVYSGEQGISPINMGLTSASCPSSLPMKREITETDTRALAKERQKKDNHNLIERRRRYNINYRIKELGTLIPKSNDPDMRWNKGTILKASVEYIKWLQKEQQRARELEHRQKKLEQANRRLLLRIQELEIQARTHGLPTLASLGTVDLGAHVTKQQSHPEQNSVDYCQQLTVSQGPSPELCDQAIAFSDPLSYFTDLSFSAALKEEQRLDGMLLDDTISPFGTDPLLSATSPAVSKESSRRSSFSSDDGDEL |
| 3155 | sp|Q62312|TGFR2\_MOUSE | MGRGLLRGLWPLHIVLWTRIASTIPPHVPKSDVEMEAQKDASIHLSCNRTIHPLKHFNSDVMASDNGGAVKLPQLCKFCDVRLSTCDNQKSCMSNCSITAICEKPHEVCVAVWRKNDKNITLETVCHDPKLTYHGFTLEDAASPKCVMKEKKRAGETFFMCACNMEECNDYIIFSEEYTTSSPDLLLVIIQVTGVSLLPPLGIAIAVIIIFYCYRVHRQQKLSPSWESSKPRKLMDFSDNCAIILEDDRSDISSTCANNINHNTELLPIELDTLVGKGRFAEVYKAKLKQNTSEQFETVAVKIFPYEEYSSWKTEKDIFSDINLKHENILQFLTAEERKTELGKQYWLITAFHAKGNLQEYLTRHVISWEDLRKLGSSLARGIAHLHSDHTPCGRPKMPIVHRDLKSSNILVKNDLTCCLCDFGLSLRLDPTLSVDDLANSGQVGTARYMAPEVLESRMNLENVESFKQTDVYSMALVLWEMTSRCNAVGEVKDYEPPFGSKVREHPCVESMKDSVLRDRGRPEIPSFWLNHQGIQIVCETLTECWDHDPEARLTAQCVAERFSELEHPERLSGRSCSQEKIPEDGSLNTTK |
| 3156 | sp|Q9HCJ0|TNR6C\_HUMAN | MATGSAQGNFTGHTKKTNGNNGTNGALVQSPSNQSALGAGGANSNGSAARVWGVATGSSSGLAHCSVSGGDGKMDTMIGDGRSQNCWGASNSNAGINLNLNPNANPAAWPVLGHEGTVATGNPSSICSPVSAIGQNMGNQNGNPTGTLGAWGNLLPQESTEPQTSTSQNVSFSAQPQNLNTDGPNNTNPMNSSPNPINAMQTNGLPNWGMAVGMGAIIPPHLQGLPGANGSSVSQVSGGSAEGISNSVWGLSPGNPATGNSNSGFSQGNGDTVNSALSAKQNGSSSAVQKEGSGGNAWDSGPPAGPGILAWGRGSGNNGVGNIHSGAWGHPSRSTSNGVNGEWGKPPNQHSNSDINGKGSTGWESPSVTSQNPTVQPGGEHMNSWAKAASSGTTASEGSSDGSGNHNEGSTGREGTGEGRRRDKGIIDQGHIQLPRNDLDPRVLSNTGWGQTPVKQNTAWEFEESPRSERKNDNGTEAWGCAATQASNSGGKNDGSIMNSTNTSSVSGWVNAPPAAVPANTGWGDSNNKAPSGPGVWGDSISSTAVSTAAAAKSGHAWSGAANQEDKSPTWGEPPKPKSQHWGDGQRSNPAWSAGGGDWADSSSVLGHLGDGKKNGSGWDADSNRSGSGWNDTTRSGNSGWGNSTNTKANPGTNWGETLKPGPQQNWASKPQDNNVSNWGGAASVKQTGTGWIGGPVPVKQKDSSEATGWEEPSPPSIRRKMEIDDGTSAWGDPSNYNNKTVNMWDRNNPVIQSSTTTNTTTTTTTTTSNTTHRVETPPPHQAGTQLNRSPLLGPGRKVSSGWGEMPNVHSKTENSWGEPSSPSTLVDNGTAAWGKPPSSGSGWGDHPAEPPVAFGRAGAPVAASALCKPASKSMQEGWGSGGDEMNLSTSQWEDEEGDVWNNAASQESTSSCSSWGNAPKKGLQKGMKTSGKQDEAWIMSRLIKQLTDMGFPREPAEEALKSNNMNLDQAMSALLEKKVDVDKRGLGVTDHNGMAAKPLGCRPPISKESSVDRPTFLDKDGGLVEEPTPSPFLPSPSLKLPLSHSALPSQALGGIASGLGMQNLNSSRQIPSGNLGMFGNSGAAQARTMQQPPQPPVQPLNSSQPSLRAQVPQFLSPQVQAQLLQFAAKNIGLNPALLTSPINPQHMTMLNQLYQLQLAYQRLQIQQQMLQAQRNVSGSMRQQEQQVARTITNLQQQIQQHQRQLAQALLVKQPPPPPPPPHLSLHPSAGKSAMDSFPSHPQTPGLPDLQTKEQQSSPNTFAPYPLAGLNPNMNVNSMDMTGGLSVKDPSQSQSRLPQWTHPNSMDNLPSAASPLEQNPSKHGAIPGGLSIGPPGKSSIDDSYGRYDLIQNSESPASPPVAVPHSWSRAKSDSDKISNGSSINWPPEFHPGVPWKGLQNIDPENDPDVTPGSVPTGPTINTTIQDVNRYLLKSGGKLSDIKSTWSSGPTSHTQASLSHELWKVPRNSTAPTRPPPGLTNPKPSSTWGASPLGWTSSYSSGSAWSTDTSGRTSSWLVLRNLTPQIDGSTLRTLCLQHGPLITFHLNLTQGNAVVRYSSKEEAAKAQKSLHMCVLGNTTILAEFAGEEEVNRFLAQGQALPPTSSWQSSSASSQPRLSAAGSSHGLVRSDAGHWNAPCLGGKGSSELLWGGVPQYSSSLWGPPSADDSRVIGSPTPLTTLLPGDLLSGESL |
| 3157 | sp|Q704V6|TLR6\_BOVIN | MIKDKESPIRSCHFVYIVALVFGTIIQFSDESEFVVDMSKTSLIHVPKDLPPKTKVLDLSQNNISELHLSDISFLSGLRVLRLSHNRIQGLDISIFKFNHDLEYLDLSHNQLQKISCHPITTTLKHLDLSFNDFDALPICKEFGNLTQLNFLGLSATKLQQLDLLPIAHLHLSCILLDLEDYMKENKKESLQILNTKKLHLVFHPNSFFSVQVDISANSLGCLQLTNIKLNDYNCQVLLKFLSGLTGGPTLLNFTLNHVETTWKCLVKVFQFLWPKPIEYLNIYNLTIVESIDEEVFTYYKTTLKALKIEHITNKVFIFSQTALYTVFSEMNILMLTISDTRFIHMLCPQEPSTFKFLNFTQNSFTDSVFQNCDTLARLETLILQKNELKDLFKTSLMTKDMLSLETLDVSWNSLEYDRSNGNCSWVGSIVVLNLSSNALTDSVFRCLPPRIKVLDLHNNRIRSIPKDVTGLETLQELNLASNSLAHLPGCGIFSSLSILIIEHNSISNPSADFFQSCQKIRSLKAGNNPFQCSCELRDFIQSVGQVSSDVVEGWPESYKCDYPESYKGTPLKDFQVSELSCNTALLIITIVVPGLVLAVAVTVLCIYLDLPWYLRMVCQWTQTRRRARNVPLEELQRTLQFHAFISYSEHDSAWVKNELIPNLEKEDIRICLHERNFVAGKSIVENIINCIEKSYKSIFVLSPNFVQSEWCHYELYFAHHNLFHEGSDNLILILLDPIPQYSIPSSYHKLRALMAQRTYLEWPKEKSKHGLFWANLRASINIKLMEKAAEIH |
| 3158 | sp|O35305|TNR11\_MOUSE | MAPRARRRRQLPAPLLALCVLLVPLQVTLQVTPPCTQERHYEHLGRCCSRCEPGKYLSSKCTPTSDSVCLPCGPDEYLDTWNEEDKCLLHKVCDAGKALVAVDPGNHTAPRRCACTAGYHWNSDCECCRRNTECAPGFGAQHPLQLNKDTVCTPCLLGFFSDVFSSTDKCKPWTNCTLLGKLEAHQGTTESDVVCSSSMTLRRPPKEAQAYLPSLIVLLLFISVVVVAAIIFGVYYRKGGKALTANLWNWVNDACSSLSGNKESSGDRCAGSHSATSSQQEVCEGILLMTREEKMVPEDGAGVCGPVCAAGGPWAEVRDSRTFTLVSEVETQGDLSRKIPTEDEYTDRPSQPSTGSLLLIQQGSKSIPPFQEPLEVGENDSLSQCFTGTESTVDSEGCDFTEPPSRTDSMPVSPEKHLTKEIEGDSCLPWVVSSNSTDGYTGSGNTPGEDHEPFPGSLKCGPLPQCAYSMGFPSEAAASMAEAGVRPQDRADERGASGSGSSPSDQPPASGNVTGNSNSTFISSGQVMNFKGDIIVVYVSQTSQEGPGSAEPESEPVGRPVQEETLAHRDSFAGTAPRFPDVCATGAGLQEQGAPRQKDGTSRPVQEQGGAQTSLHTQGSGQCAE |
| 3159 | sp|Q9Y6G1|TM14A\_HUMAN | MDLIGFGYAALVTFGSIFGYKRRGGVPSLIAGLFVGCLAGYGAYRVSNDKRDVKVSLFTAFFLATIMGVRFKRSKKIMPAGLVAGLSLMMILRLVLLLL |
| 3160 | sp|Q92956|TNR14\_HUMAN | MEPPGDWGPPPWRSTPKTDVLRLVLYLTFLGAPCYAPALPSCKEDEYPVGSECCPKCSPGYRVKEACGELTGTVCEPCPPGTYIAHLNGLSKCLQCQMCDPAMGLRASRNCSRTENAVCGCSPGHFCIVQDGDHCAACRAYATSSPGQRVQKGGTESQDTLCQNCPPGTFSPNGTLEECQHQTKCSWLVTKAGAGTSSSHWVWWFLSGSLVIVIVCSTVGLIICVKRRKPRGDVVKVIVSVQRKRQEAEGEATVIEALQAPPDVTTVAVEETIPSFTGRSPNH |
| 3161 | sp|Q80WM9|TNR14\_MOUSE | MEPLPGWGSAPWSQAPTDNTFRLVPCVFLLNLLQRISAQPSCRQEEFLVGDECCPMCNPGYHVKQVCSEHTGTVCAPCPPQTYTAHANGLSKCLPCGVCDPDMGLLTWQECSSWKDTVCRCIPGYFCENQDGSHCSTCLQHTTCPPGQRVEKRGTHDQDTVCADCLTGTFSLGGTQEECLPWTNCSAFQQEVRRGTNSTDTTCSSQVVYYVVSILLPLVIVGAGIAGFLICTRRHLHTSSVAKELEPFQEQQENTIRFPVTEVGFAETEEETASN |
| 3162 | sp|Q9BWF2|TRAIP\_HUMAN | MPIRALCTICSDFFDHSRDVAAIHCGHTFHLQCLIQWFETAPSRTCPQCRIQVGKRTIINKLFFDLAQEEENVLDAEFLKNELDNVRAQLSQKDKEKRDSQVIIDTLRDTLEERNATVVSLQQALGKAEMLCSTLKKQMKYLEQQQDETKQAQEEARRLRSKMKTMEQIELLLQSQRPEVEEMIRDMGVGQSAVEQLAVYCVSLKKEYENLKEARKASGEVADKLRKDLFSSRSKLQTVYSELDQAKLELKSAQKDLQSADKEIMSLKKKLTMLQETLNLPPVASETVDRLVLESPAPVEVNLKLRRPSFRDDIDLNATFDVDTPPARPSSSQHGYYEKLCLEKSHSPIQDVPKKICKGPRKESQLSLGGQSCAGEPDEELVGAFPIFVRNAILGQKQPKRPRSESSCSKDVVRTGFDGLGGRTKFIQPTDTVMIRPLPVKPKTKVKQRVRVKTVPSLFQAKLDTFLWS |
| 3163 | sp|Q9BUZ4|TRAF4\_HUMAN | MPGFDYKFLEKPKRRLLCPLCGKPMREPVQVSTCGHRFCDTCLQEFLSEGVFKCPEDQLPLDYAKIYPDPELEVQVLGLPIRCIHSEEGCRWSGPLRHLQGHLNTCSFNVIPCPNRCPMKLSRRDLPAHLQHDCPKRRLKCEFCGCDFSGEAYESHEGMCPQESVYCENKCGARMMRRLLAQHATSECPKRTQPCTYCTKEFVFDTIQSHQYQCPRLPVACPNQCGVGTVAREDLPGHLKDSCNTALVLCPFKDSGCKHRCPKLAMARHVEESVKPHLAMMCALVSRQRQELQELRRELEELSVGSDGVLIWKIGSYGRRLQEAKAKPNLECFSPAFYTHKYGYKLQVSAFLNGNGSGEGTHLSLYIRVLPGAFDNLLEWPFARRVTFSLLDQSDPGLAKPQHVTETFHPDPNWKNFQKPGTWRGSLDESSLGFGYPKFISHQDIRKRNYVRDDAVFIRAAVELPRKILS |
| 3164 | sp|Q8N609|TR1L1\_HUMAN | MGLRKKSTKNPPVLSQEFILQNHADIVSCVGMFFLLGLVFEGTAEASIVFLTLQHSVAVPAAEEQATGSKSLYYYGVKDLATVFFYMLVAIIIHATIQEYVLDKINKRMQFTKAKQNKFNESGQFSVFYFFSCIWGTFILISENCLSDPTLIWKARPHSMMTFQMKFFYISQLAYWFHAFPELYFQKTKKQDIPRQLVYIGLHLFHITGAYLLYLNHLGLLLLVLHYFVELLSHMCGLFYFSDEKYQKGISLWAIVFILGRLVTLIVSVLTVGFHLAGSQNRNPDALTGNVNVLAAKIAVLSSSCTIQAYVTWNLITLWLQRWVEDSNIQASCMKKKRSRSSKKRTENGVGVETSNRVDCPPKRKEKSS |
| 3165 | sp|Q12815|TROAP\_HUMAN | MTTRQATKDPLLRGVSPTPSKIPVRSQKRTPFPTVTSCAVDQENQDPRRWVQKPPLNIQRPLVDSAGPRPKARHQAETSQRLVGISQPRNPLEELRPSPRGQNVGPGPPAQTEAPGTIEFVADPAALATILSGEGVKSCHLGRQPSLAKRVLVRGSQGGTTQRVQGVRASAYLAPRTPTHRLDPARASCFSRLEGPGPRGRTLCPQRLQALISPSGPSFHPSTRPSFQELRRETAGSSRTSVSQASGLLLETPVQPAFSLPKGEREVVTHSDEGGVASLGLAQRVPLRENREMSHTRDSHDSHLMPSPAPVAQPLPGHVVPCPSPFGRAQRVPSPGPPTLTSYSVLRRLTVQPKTRFTPMPSTPRVQQAQWLRGVSPQSCSEDPALPWEQVAVRLFDQESCIRSLEGSGKPPVATPSGPHSNRTPSLQEVKIQRIGILQQLLRQEVEGLVGGQCVPLNGGSSLDMVELQPLLTEISRTLNATEHNSGTSHLPGLLKHSGLPKPCLPEECGEPQPCPPAEPGPPEAFCRSEPEIPEPSLQEQLEVPEPYPPAEPRPLESCCRSEPEIPESSRQEQLEVPEPCPPAEPRPLESYCRIEPEIPESSRQEQLEVPEPCPPAEPGPLQPSTQGQSGPPGPCPRVELGASEPCTLEHRSLESSLPPCCSQWAPATTSLIFSSQHPLCASPPICSLQSLRPPAGQAGLSNLAPRTLALRERLKSCLTAIHCFHEARLDDECAFYTSRAPPSGPTRVCTNPVATLLEWQDALCFIPVGSAAPQGSP |
| 3166 | sp|Q6PD31|TRAK1\_MOUSE | MALAIQLRQPSRAQPLPGLSHTLAGTDSCDVCNSTNLPEVEIISLLEEQLPHYKLRADTIYGYDHDDWLHTPLISPDANIDLTTEQIEETLKYFLLCAERVGQMTKTYNDIDAVTRLLEEKERDLELAARIGQSLLKKNKTLTERNELLEEQVEHIREEVSQLRHELSMKDELLQFYTSAAEESEPESVCSTPLKRNESSSSVQNYFHLDSLQKKLKDLEEENVVLRSEACQLKTETITYEEKEQQLVNDCVKELRDANVQIASISEELAKKTEDAARQQEEITHLLSQIVDLQKKAKSCAVENEELVQHLGAAKDAQRQLTAELRELEDKYAECMEMLHEAQEELKNLRNKTMPTSRRYHSLGLFPMDSLAAEIEGTMRKELQLEELESPDITHQKRVFETVRNVNQVVKQRSLTPSPMNIPGSNQSSAMNSLLSSCVSTPRSSFYGSDVSNVVLDNKTNSILLETEAADLGNEDHNKKPGTPGTPGSHDLETALRRLSLRRENYLSERRFFEEEQERKLRELAEKGELHSGSLTPTESIMSLGTHSRFSEFTGFSGMSFSSRSYLPEKLQIVKPLEGSATLHHWQQLAQPHLGGILDPRPGVVTKGFRTLDVDLDEVYCLNDFEEDDTGDHISLAGLATSTPIQHPETSAHHPGKCMSQTNSTFTFTTCRILHPSDELTRVTPSLNSAPAPACSSTSHLKSTPVATPCTPRRLSLAESFTNVRESTTTMSTSLGLVWLLKERGISAAVYDPQSWDRAGRGSLLHSYTPRMAVIPSTPPNSPMQTPSASPPSFEFKCTSPPYNNFLASKPASSILREVREKRPVRSSESQTDVSVSNLNLVDKVRRFGVARVVNSGRARIPTLTEEQGPLLCGPTGPAQALVPGGLVPEGLPLGCPSGIRRNRSFPTMVGSSVQMRAPVILTSGILMGAKLPKQTSLR |
| 3167 | sp|P28166|ZFH1\_DROME | MLSCLAPSSSRFGQEDTIIQQSMPSTSPFAMQFPSLASTLLHHNQSPKHSNPGSSGIQDAHPNQPGAAADAFLVKCTQCHKRFPEYQSLSEHIASEHPHDKLNCGAAQPESDAEDEQSNMSGSSRRYAKSPLASNNNSSTANANNNSTSSQSMNNNSELAKNHNSANKMSPMCSPGSLTPGDLFAQLQHPPPQLPPHLHAQFMAAAASLAMQSARTASSPSQQQQQQLQQQQQLQQQQQHQMAMQQLLPPQLPGSNSSVGSNSAYDLDLSAPRSTSSPGSTTGDLSGAYPCMQCTASFASREQLEQHEQLHSPCGPAAVSNVSQTCRICHKAFANVYRLQRHMISHDESALLRKFKCKECDKAFKFKHHLKEHVRIHSGEKPFGCDNCGKRFSHSGSFSSHMTSKKCISMGLKLNNNRALLKRLEKSPGSASSASRRSPSDHGKGKLPEQPSLPGLPHPMSYFASDAQVQGGSAAPAPFPPFHPNYMNAALLAFPHNFMAAAAGLDPRVHPYSIQRLLQLSAAGQQQREEEREEQQKQQQHDEEETPDEPKLVMDIEEPETKEMAPTPEATEAATPIKREESREASPDPESYRSSSQAIKQEQEPLNVAEERQTPVEEHAPVEHAADLRCSRCSKQFNHPTELVQHEKVLCGLIKEELEQHFQQQQATSFALASASEEDEEDEEMDVEEEPRQESGERKVRVRTAINEEQQQQLKQHYSLNARPSRDEFRMIAARLQLDPRVVQVWFQNNRSRERKMQSFQNNQAAGAAPPMPIDSQASLTREDQPLDLSVKRDPLTPKSESSPPYIAPPSGEALNPEAINLSRKFSTSASMSPASISPSSAAALYFGAAPPPSPPNSQLDSTPRSGQAFPGLPPYMLPMSLPMEALFKMRPGGDFASNHALMNSIKLPDYRGTSLSPGGSEKRSWRDDDSRISHEDEFGAGVLMPPKPRRGKAETHGHAGDPDLPYVCDQCDKAFAKQSSLARHKYEHSGQRPYQCIECPKAFKHKHHLTEHKRLHSGEKPFQCSKCLKRFSHSGSYSQHMNHRYSYCKPYRE |
| 3168 | sp|O43189|PHF1\_HUMAN | MAQPPRLSRSGASSLWDPASPAPTSGPRPRLWEGQDVLARWTDGLLYLGTIKKVDSAREVCLVQFEDDSQFLVLWKDISPAALPGEELLCCVCRSETVVPGNRLVSCEKCRHAYHQDCHVPRAPAPGEGEGTSWVCRQCVFAIATKRGGALKKGPYARAMLGMKLSLPYGLKGLDWDAGHLSNRQQSYCYCGGPGEWNLKMLQCRSCLQWFHEACTQCLSKPLLYGDRFYEFECCVCRGGPEKVRRLQLRWVDVAHLVLYHLSVCCKKKYFDFDREILPFTSENWDSLLLGELSDTPKGERSSRLLSALNSHKDRFISGREIKKRKCLFGLHARMPPPVEPPTGDGALTSFPSGQGPGGGVSRPLGKRRRPEPEPLRRRQKGKVEELGPPSAVRNQPEPQEQRERAHLQRALQASVSPPSPSPNQSYQGSSGYNFRPTDARCLPSSPIRMFASFHPSASTAGTSGDSGPPDRSPLELHIGFPTDIPKSAPHSMTASSSSVSSPSPGLPRRSAPPSPLCRSLSPGTGGGVRGGVGYLSRGDPVRVLARRVRPDGSVQYLVEWGGGGIF |
| 3169 | sp|Q84K11|PPP5\_SOLLC | MPGMEAENSNASRAEELKQLANEAFKGHKYSQAIDLYTQAIELNGENAVYYANRAFAHTKLEEYGSAIQDGTRAIEIDPRYSKGYYRRGAAYLAMGKFKDALKDFQQVKKLCPNDPDATKKLKECEKAVMKLKFEEAISVPESQRRSVADSIDYRSVGSGPGSSYVPTKTTAVSAAAALMGVLVVYMGTKAATMVAAAASAALLVVLITFLWGRCSDGFFTKSRTLELEVEPQYAGARIEGDVVTLDFVKKMLDDFKNQKNLHKRYAYQIVLQTREMLRALPSLVDIVVPEGKHFTVCGDVHGQFYDLLNIFELNGLPSEDNPYLFNGDFVDRGSFSLEVILTLFAFKCMCPSAIHLARGNHESKSMNKIYGFEGEVRSKLSEIFVELFAEVFCCLPLAHVINEKVFVVHGGLFSVDGVKLSDIRAIDRFCEPPEEGLMCELLWSDPQPQPGRGPSKRGVGLSFGGDVTKRFLQENNLDLVVRSHEVKDEGYEIEHDGKLITVFSAPNYCDQMGNKGAFIRFEAPDMKPNIVTFSAVPHPDVKPMAYANNFLRMFS |
| 3170 | sp|P07001|PNTA\_ECOLI | MRIGIPRERLTNETRVAATPKTVEQLLKLGFTVAVESGAGQLASFDDKAFVQAGAEIVEGNSVWQSEIILKVNAPLDDEIALLNPGTTLVSFIWPAQNPELMQKLAERNVTVMAMDSVPRISRAQSLDALSSMANIAGYRAIVEAAHEFGRFFTGQITAAGKVPPAKVMVIGAGVAGLAAIGAANSLGAIVRAFDTRPEVKEQVQSMGAEFLELDFKEEAGSGDGYAKVMSDAFIKAEMELFAAQAKEVDIIVTTALIPGKPAPKLITREMVDSMKAGSVIVDLAAQNGGNCEYTVPGEIFTTENGVKVIGYTDLPGRLPTQSSQLYGTNLVNLLKLLCKEKDGNITVDFDDVVIRGVTVIRAGEITWPAPPIQVSAQPQAAQKAAPEVKTEEKCTCSPWRKYALMALAIILFGWMASVAPKEFLGHFTVFALACVVGYYVVWNVSHALHTPLMSVTNAISGIIVVGALLQIGQGGWVSFLSFIAVLIASINIFGGFTVTQRMLKMFRKN |
| 3171 | sp|P10686|PLCG1\_RAT | MAGVGTPCANGCGPSAPSEAEVLHLCRSLEVGTVMTLFYSKKSQRPERKTFQVKLETRQITWSRGADKIEGSIDIREIKEIRPGKTSRDFDRYQEDPAFRPDQSHCFVILYGMEFRLKTLSLQATSEDEVNMWIKGLTWLMEDTLQAATPLQIERWLRKQFYSVDRNREDRISAKDLKNMLSQVNYRVPNMRFLRERLTDFEQRSGDITYGQFAQLYRSLMYSAQKTMDLPFLETNTLRTGERPELCQVSLSEFQQFLLEYQGELWAVDRLQVQEFMLSFLRDPLREIEEPYFFLDELVTFLFSKENSVWNSQLDAVCPETMNNPLSHYWISSSHNTYLTGDQFSSESSLEAYARCLRMGCRCIELDCWDGPDGMPVIYHGHTLTTKIKFSDVLHTIKEHAFVASEYPVILSIEDHCSIAQQRNMAQHFRKVLGDTLLTKPVDIAADGLPSPNQLKRKILIKHKKLAEGSAYEEVPTSVMYSENDISNSIKNGILYLEDPVNHEWYPHYFVLTSSKIYYSEETSSDQGNEDEEEPKEASGSTELHSSEKWFHGKLGAGRDGRHIAERLLTEYCIETGAPDGSFLVRESETFVGDYTLSFWRNGKVQHCRIHSRQDAGTPKFFLTDNLVFDSLYDLITHYQQVPLRCNEFEMRLSEPVPQTNAHESKEWYHASLTRAQAEHMLMRVPRDGAFLVRKRNEPNSYAISFRAEGKIKHCRVQQEGQTVMLGNSEFDSLVDLISYYEKHPLYRKMKLRYPINEEALEKIGTAEPDYGALYEGRNPGFYVEANPMPTFKCAVKALFDYKAQREDELTFTKSAIIQNVEKQDGGWWRGDYGGKKQLWFPSNYVEEMINPAILEPEREHLDENSPLGDLLRGVLDVPACQIAIRPEGKNNRLFVFSISMPSVAQWSLDVAADSQEELQDWVKKIREVAQTADARLTEGKMMERRKKIALELSELVVYCRPVPFDEEKIGTERACYRDMSSFPETKAEKYVNKAKGKKFLQYNRLQLSRIYPKGQRLDSSNYDPLPMWICGSQLVALNFQTPDKPMQMNQALFMAGGHCGYVLQPSTMRDEAFDPFDKSSLRGLEPCVICIEVLGARHLPKNGRGIVCPFVEIEVAGAEYDSTKQKTEFVVDNGLNPVWPAKPFHFQISNPEFAFLRFVVYEEDMFSDQNFLAQATFPVKGLKTGYRAVPLKNNYSEDLELASLLIKIDIFPAKENGDLSPFSGTSLRERASDASSQLFHVRAREGSFEARYQQPFEDFRISQEHLADHFDSRERRAPRRTRVNGDNRL |
| 3172 | sp|P03599|POL2\_CPMVS | MFSFTEAKSKISLWTRSAAPLNNVYLSYSCRCGLGKRKLAGGCCSAPYITCYDSADFRRVQYLYFCLTRYCCLYFFLLLLADWFYKKSSIFFETEFSRGFRTWRKIVKLLYILPKFEMESIMSRGIPSGILEEKAIQFKRAKEGNKPLKDEIPKPEDMYVSHTSKWNVLRKMSQKTVDLSKAAAGMGFINKHMLTGNILAQPTTVLDIPVTKDKTLAMASDFIRKENLKTSAIHIGAIEIIIQSFASPESDLMGGFLLVDSLHTDTANAIRSIFVAPMRGGRPVRVVTFPNTLAPVSCDLNNRFKLICSLPNCDIVQGSQVAEVSVNVAGCATSIEKSHTPSQLYTEEFEKEGAVVVEYLGRQTYCAQPSNLPTEEKLRSLKFDFHVEQPSVLKLSNSCNAHFVKGESLKYSISGKEAENHAVHATVVSREGASAAPKQYDPILGRVLDPRNGNVAFPQMEQNLFALSLDDTSSVRGSLLDTKFAQTRVLLSKAMAGGDVLLDEYLYDVVNGQDFRATVAFLRTHVITGKIKVTATTNISDNSGCCLMLAINSGVRGKYSTDVYTICSQDSMTWNPGCKKNFSFTFNPNPCGDSWSAEMISRSRVRMTVICVSGWTLSPTTDVIAKLDWSIVNEKCEPTIYHLADCQNWLPLNRWMGKLTFPQGVTSEVRRMPLSIGGGAGATQAFLANMPNSWISMWRYFRGELHFEVTKMSSPYIKATVTFLIAFGNLSDAFGFYESFPHRIVQFAEVEEKCTLVFSQQEFVTAWSTQVNPRTTLEADGCPYLYAIIHDSTTGTISGDFNLGVKLVGIKDFCGIGSNPGIDGSRLLGAIAQGPVCAEASDVYSPCMIASTPPAPFSDVTAVTFDLINGKITPVGDDNWNTHIYNPPIMNVLRTAAWKSGTIHVQLNVRGAGVKRADWDGQVFVYLRQSMNPESYDARTFVISQPGSAMLNFSFDIIGPNSGFEFAESPWANQTTWYLECVATNPRQIQQFEVNMRFDPNFRVAGNILMPPFPLSTETPPLLKFRFRDIERSKRSVMVGHTATAA |
| 3173 | sp|Q9IDV9|POL\_HV1YB | MGARASVLTGGKLDQWEAIYLRPGGKKKYRLKHLVWASRELERFACNPGLMDTANGCAQLINQLEPALKTGSEGLRSLXNTLAVLYCVHSNIPVHNTQEALDKIKEKQEQHKSEPKKPEAGTAAAADSSISRNYPLVQNAQGQMVHQPLTPRTLNAWVKVIEEKAFNPEIIPMFMALSEGATPSDLNSMLNTVGGHQAAMQMLKEVINEEAAEWDRTHPAPVGPLPPGQMRDPRGSDIAGTTSTLAEQVAWMTSNPPIPVGDIYRRWIVLGLNRIVRMYSPVSILEIKQGPKEPFRDYVDRFYKTLRAEQATQDVKNWMTETLLVQNANPDCKQILKALGPGATLEEMMTACQGVGGPAHKARVLAEAMAQAQTATSVFVQRGNFKGIRKTIKCFNCGKEGHLARNCKAPRRRGCWKCGQEGHQMKDCKNEGXQANFRKGLVSLQRETRKLPPDNNKERAHSPATRELWVSGGEEHTGKGDAGEPGEDRDLSVPTLNFPQITLWQRPVXAVKIGKEIREALLDTGADDTVIEEIQLEGKWKPKMIGGIGGFIKVRQYDNITIDIQGRKAVGTVLVGPTPVNIIGRNFLTQIGCTLNFPISPIETVPVKLKPGMDGPRVKQWPLTAEKIEALREICTEMEKEGKISRIGPENPYNTPIFAIKKKDSTKWRKLVDFRELNKRTQEFWEVQLGIPHPAGLKQKKSVTVXDVGDAYFSCPLDKDFRKYTAFTIPSINNETPGIRYQYNVLPQGWKGSPAIFQSSMTKILEPFRKKHPEIIIYQYMDDLYVGSDLEIAQHRETVEELRGHLLKWGFTTPDKKHQKEPPFLWMGYELHPDKWTVQPIKLPEKEVWTVNDIQKLVGKLNWASQIYPGIKVKQLCKLIRGTKALTEVVTFTQEAELELAENREILKEPLHGVYYDPGKELIAEIQKQGQGQWTYQIYQEPYKNLKTGKYAKXRSAHTNDIKELAAVVQKVATESIVIWGKTPKFKLPVQKEVWETWWTEHWQATWIPEWEFVNTPPLVKLWYQLETEPISGAETYYVDGAANKETKLGKAGFVTDRGRQKVVSIENTTNQKAELQAILLALQESGQEANIVTDSQYAMGIIHSQPDKSESDLVGQIIEELIKKERVYLSWVPAHKGIGGNEQVDXLVSSGIRXVLFLDGIEKAQEEHERYHSNWKAMASDFNLPPIVAKEIVASCDKCQLKGEAMHGQINCSPGVWQLDCTHLEGKIILVAVHVASGYLEAEVIPAETGQETAYFILKLAGRWPVKVIHTDNGPNFISATVKAACWWAGIKQEFGIPYNPQSQGAVESMNKELKKIIGQIRDQAEHLKTAVQMAVFIHNFKRKGGIGGXTAGERIIDIIATDIQTTKLQTQILKVQNFXVYYRDSRDPIWKGPAKLLWKGEGAVVIQDNGDIKVVPRRKAKIIRDYGKQMAGDGCVASGQDENQDME |
| 3174 | sp|Q8R3U1|PLAT3\_MOUSE | MLAPIPEPKPGDLIEIFRPMYRHWAIYVGDGYVIHLAPPSEIAGAGAASIMSALTDKAIVKKELLCHVAGKDKYQVNNKHDEEYTPLPLSKIIQRAERLVGQEVLYRLTSENCEHFVNELRYGVPRSDQVRDAVKAVGIAGVGLAALGLVGVMLSRNKKQKQ |
| 3175 | sp|Q8IV08|PLD3\_HUMAN | MKPKLMYQELKVPAEEPANELPMNEIEAWKAAEKKARWVLLVLILAVVGFGALMTQLFLWEYGDLHLFGPNQRPAPCYDPCEAVLVESIPEGLDFPNASTGNPSTSQAWLGLLAGAHSSLDIASFYWTLTNNDTHTQEPSAQQGEEVLRQLQTLAPKGVNVRIAVSKPSGPQPQADLQALLQSGAQVRMVDMQKLTHGVLHTKFWVVDQTHFYLGSANMDWRSLTQVKELGVVMYNCSCLARDLTKIFEAYWFLGQAGSSIPSTWPRFYDTRYNQETPMEICLNGTPALAYLASAPPPLCPSGRTPDLKALLNVVDNARSFIYVAVMNYLPTLEFSHPHRFWPAIDDGLRRATYERGVKVRLLISCWGHSEPSMRAFLLSLAALRDNHTHSDIQVKLFVVPADEAQARIPYARVNHNKYMVTERATYIGTSNWSGNYFTETAGTSLLVTQNGRGGLRSQLEAIFLRDWDSPYSHDLDTSADSVGNACRLL |
| 3176 | sp|Q84ND9|POLIB\_ARATH | MGVSLRHLSPSSFWVSRRPRVSSSILSFLVPRRRILCTRKVAIIKGNAGYSTATDCGGSHGFHHSGHQRSSSVEFSGEWKLNLGSKTARMVPPTVKQAGAVSAWREEVNNKLRGRNREYANNQDDAFGNGSYILKGFVPKIDDVHSYGNGQNFDYNLKPGTDITTLGRELNGFMQTNSIRGSVVALPSKDIEVGETTDVTLKPLNSDTTLDNASYKKTATISKVEKCTNLSQVRANLKKIYNRVRVVDNVSSAKETVALLMNQYRNLVHACDTEVSRIDVKTETPVDHGEMICFSIYCGSEADFGDGKSCIWVDVLGENGRDILAEFKPFFEDSSIKKVWHNYSFDNHIIRNYGIKLSGFHGDTMHMARLWDSSRRISGGYSLEALTSDPKVLGGTETKEEAELFGKISMKKIFGKGKLKKDGSEGKLVIIPPVKELQMEDREAWISYSALDSISTLKLYESMKKQLQAKKWFLDGKLISKKNMFDFYQEYWQPFGELLAKMESEGMLVDRDYLAQIEIVAKAEQEIAVSRFRNWASKHCPDAKHMNVGSDTQLRQLFFGGISNSCNDEDLPYEKLFKVPNVDKVIEEGKKRATKFRNIKLHRISDRPLPTEKFTASGWPSVSGDTLKALAGKVSAEYDYMEGVLDTCLEENIGDDDCISLPDEVVETQHVNTSVESDTSAYGTAFDAFGGGESGKEACHAIAALCEVCSIDSLISNFILPLQGSNVSGKDGRVHCSLNINTETGRLSARRPNLQNQPALEKDRYKIRQAFIASPGNSLIVADYGQLELRILAHLASCESMKEAFIAGGDFHSRTAMNMYPHIREAVENGEVLLEWHPQPGQEKPPVPLLKDAFASERRKAKMLNFSIAYGKTAIGLSRDWKVSREEAQDTVNLWYNDRQEVRKWQELRKKEAIQKGYVLTLLGRARKFPEYRSRAQKNHIERAAINTPVQGSAADVAMCAMLEISNNQRLKELGWKLLLQVHDEVILEGPSESAENAKDIVVNCMSEPFNGKNILSVDLSVDAKCAQNWYAGK |
| 3177 | sp|Q9HAZ2|PRD16\_HUMAN | MRSKARARKLAKSDGDVVNNMYEPNRDLLASHSAEDEAEDSAMSPIPVGPPSPFPTSEDFTPKEGSPYEAPVYIPEDIPIPADFELRESSIPGAGLGVWAKRKMEAGERLGPCVVVPRAAAKETDFGWEQILTDVEVSPQEGCITKISEDLGSEKFCVDANQAGAGSWLKYIRVACSCDDQNLTMCQISEQIYYKVIKDIEPGEELLVHVKEGVYPLGTVPPGLDEEPTFRCDECDELFQSKLDLRRHKKYTCGSVGAALYEGLAEELKPEGLGGGSGQAHECKDCERMFPNKYSLEQHMVIHTEEREYKCDQCPKAFNWKSNLIRHQMSHDSGKRFECENCVKVFTDPSNLQRHIRSQHVGARAHACPDCGKTFATSSGLKQHKHIHSTVKPFICEVCHKSYTQFSNLCRHKRMHADCRTQIKCKDCGQMFSTTSSLNKHRRFCEGKNHYTPGGIFAPGLPLTPSPMMDKAKPSPSLNHASLGFNEYFPSRPHPGSLPFSTAPPTFPALTPGFPGIFPPSLYPRPPLLPPTSLLKSPLNHTQDAKLPSPLGNPALPLVSAVSNSSQGTTAAAGPEEKFESRLEDSCVEKLKTRSSDMSDGSDFEDVNTTTGTDLDTTTGTGSDLDSDVDSDPDKDKGKGKSAEGQPKFGGGLAPPGAPNSVAEVPVFYSQHSFFPPPDEQLLTATGAAGDSIKAIASIAEKYFGPGFMGMQEKKLGSLPYHSAFPFQFLPNFPHSLYPFTDRALAHNLLVKAEPKSPRDALKVGGPSAECPFDLTTKPKDVKPILPMPKGPSAPASGEEQPLDLSIGSRARASQNGGGREPRKNHVYGERKLGAGEGLPQVCPARMPQQPPLHYAKPSPFFMDPIYSRVEKRKVTDPVGALKEKYLRPSPLLFHPQMSAIETMTEKLESFAAMKADSGSSLQPLPHHPFNFRSPPPTLSDPILRKGKERYTCRYCGKIFPRSANLTRHLRTHTGEQPYRCKYCDRSFSISSNLQRHVRNIHNKEKPFKCHLCNRCFGQQTNLDRHLKKHEHENAPVSQHPGVLTNHLGTSASSPTSESDNHALLDEKEDSYFSEIRNFIANSEMNQASTRTEKRADMQIVDGSAQCPGLASEKQEDVEEEDDDDLEEDDEDSLAGKSQDDTVSPAPEPQAAYEDEEDEEPAASLAVGFDHTRRCAEDHEGGLLALEPMPTFGKGLDLRRAAEEAFEVKDVLNSTLDSEALKHTLCRQAKNQAYAMMLSLSEDTPLHTPSQGSLDAWLKVTGATSESGAFHPINHL |
| 3178 | sp|Q4U3Q4|PPARG\_CANLF | MGETLGDSLIDPESDSFADTLSASTSQETTMVDTEMPFWPTNFGISSVDLSVMDDHSHSFDIKPFTTVDFSSISTPHYEDIPFSRADPMVADYKYDLKLQEYQSAIKVEPASPPYYSEKTQLYNKPHEEPSNSLMAIECRVCGDKASGFHYGVHACEGCKGFFRRTIRLKLIYDRCDLNCRIHKKSRNKCQYCRFQKCLAVGMSHNAIRFGRMPQAEKEKLLAEISSDIDQLNPESADLRALAKHLYDSYIKSFPLTKAKARAILTGKTTDKSPFVIYDMNSLMMGEDKIKFKHITPLQEQSKEVAIRIFQGCQFRSVEAVQEITEYAKSIPGFVNLDLNDQVTLLKYGVHEIIYTMLASLMNKDGVLISEGQGFMTREFLKSLRKPFGDFMEPKFEFAVKFNALELDDSDLAIFIAVIILSGDRPGLLNVKPIEDIQDNLLQALELQLKLNHPESSQLFAKLLQKMTDLRQIVTEHVQLLQVIKKTETDMSLHPLLQEIYKDLY |
| 3179 | sp|P51023|PNT\_DROME | MELAICKTDLSATKFMLPPALPSSAAIGSSSAVASTASHFLDKAAHELFQLNAINGHLFKSPASSHLNSVGSPSILSQLNGIGNSGNHSGQVSTMRLKKNRKVTFLSSLVESKNIFIKEEPIHGCKDLCSLSDISDHEASLEVPTALPPLTPGTNRKVNEVLKASFASWEKEVQKCNITKDPREWTEEHVIYWLNWAKNEFSLVSMNLDPFYKMKGRAMVDLGKEKFLAITPPFTGDILWEHLDILQKDCEKPNEDIVHGNSFESATTASVCGSDHQVANYPNETHANSNNSSINSRLSMDYVTSAGNSDNKNFHRATPHSHNGYNTSNTHDRINNSTPPQQQQSQQPTVNGSGSASSNNNNSMLPPAVQQSNNENNNTSSSNTNNSSNNNNNSGGSNNSNAGSNNNNNNNNNINFMAAAAIFQHHLKEEPGTQNGNIGGYGGGSNSQNDPTDLSSYGLPAHLAAYGGGSGSGPTGGRSSGGGGDESDYHSTISAQDHQSQQSSGGNGSGGASGGSTGNSNGYLDSSSEFYGSYAGRNRFHDGYPPEFTPYDAQSFQSMGPQPTAMDQWGAAHAHQHPAAYMSTLGLDKGLLGGYTTQGGVPCFTGSGPIQLWQFLLELLLDKTCQSFISWTGDGWEFKLTDPDEVARRWGIRKNKPKMNYEKLSRGLRYYYDKNIIHKTAGKRYVYRFVCDLQNLVGHTPEELVAKYDLKIEKKDVD |
| 3180 | sp|P25576|POF1\_YEAST | MKKTFEQFRKSNLLFQVLKGPQHLECQKLFVLDSSFNPPHLAHFQLLSQTIKNFKLKDTRSHVLLLLAVNNADKLPKPASFPTRLEMMCLFADYLQEKLPQSVVSVGLTVFSKFIDKDKILHEQFVKGCSADIGYLVGFDTIARIFDEKYYHPLKISDVMESFMSGSQLYCLARGDCHLSAESQLRYASDILEGKFEPVIPREWGARIHVMQNDYPALRNVSSSEIRNKLKNGQVESLKDELPLCIYDYLINNKTIFD |
| 3181 | sp|Q56Y52|POT1A\_ARATH | MAKKRESPKLIKIKDAIKLINQQVSLIGIVLEQREPKQCRNNDWICTLRIIDDTYPSPGLTVNVFSKTLEQLPQIKNHDDMILFTRIKMQTFDSGERVNAACSRWVSSFALFEGVDFVCYQCSTNFHEEEALYKSAMDDLRKVFAGCSQVIKAMQSISYRTKPCSEVFSFLREIKIGKRFDLVCRILHADEDTSAVFVWDGTDAPPASILAKRSEEDKAFSSLSVHTLLSRDVLLSFPTVGTILRVHLSSHLFYRVKPGDWVKLYHLLCEVDRGSWVIKVTSSTKVHHLAQDDRLVEKIMRIYDKRLSSKLGHISFWCFPSPPGLTETDDNCAPFVTLMDIITFPKVTCKYRCIVRVVAAYPWQVEDFCSDENRRHHQVLLTLEDSTATLEAFLCNKDAEYFWGLGFQDTETLRKKRNWLLGIRESSNFVAPRNPPWIECCILSYYTNKADPWNTRLYRIFGTRLLH |
| 3182 | sp|Q8K394|PLCL2\_MOUSE | MAECGRGAAGGALPTSPSPALGAKGALKAGAGEGGGGGGGGRLGHGRARYDSGGVSNGDCSLGVSGDEARTSPGRGPLGVALARTPSPAAGPVPRDSKPGGLPRRSSIIKDGTKQKRERKKTVSFSSMPTEKKISSASDCINSMVEGSELKKVRSNSRIYHRYFLLDADMQSLRWEPSKKDSEKAKIDIKSIKEVRTGKNTDIFRSNGISEQISEDCAFSVIYGENYESLDLVANSADVANIWVTGLRYLISYGKHTLDMLESSQDNMRTSWISQMFSEIDVDGLGHITLCHAVQCIRNLNPGLKTSKIELKFKELHKSKDKAGTEITKEEFIEVFHELCTRPEIYFLLVQFSSNKEFLDTKDLMMFLEAEQGVAHINEEISLEIIHKYEPSKEGQEKGWLSIDGFTNYLMSPDCYIFDPEHKKVCQDMKQPLSHYFINSSHNTYLIEDQFRGPSDITGYIRALKMGCRSVELDVWDGPDNEPVIYTGHTMTSQIVFRSVIDIINKYAFFASEYPLILCLENHCSIKQQKVMVQHMKKILGDKLYTTSPNMEESYLPSPDVLKGKILIKAKKLSSNCSGVEGDVTDEDEGAEMSQRMGKENVEQPNHVPVKRFQLCKELSELVSICKSVQFKEFQVSFQVQKYWEVCSFNEVLASKYANENPGDFVNYNKRFLARVFPSPMRIDSSNMNPQDFWKCGCQIVAMNFQTPGLMMDLNVGWFRQNGNCGYVLRPAIMREEVSFFSANTKDSVPGVSPQLLHIKIISGQNFPKPKGSGAKGDVVDPYVYVEIHGIPADCAEQRTKTVNQNGDAPIFDESFEFQINLPELAMVRFVVLDDDYIGDEFIGQYTIPFECLQTGYRHVPLQSLTGEVLAHASLFVHVAITNRRGGGKPHKRGLSVRKGKKSREYASLRTLWIKTVDEVFKNAQPPIRDATDLRENMQNAVVSFKELCGLSSVANLMQCMLAVSPRFLGPDNNPLVVLNLSEPYPTMELQAIVPEVLKKIVTTYDMMMQSLKALIENADAVYEKIVHCQKAAMEFHEHLHSIGTKEGLKERKLQKAVESFTWNITILKGQADLLKYAKNETLENLKQIHFAAVSCGLNKPGTENSEAQKPRRSLEAIPEKASDENGD |
| 3183 | sp|P10894|PLCB1\_BOVIN | MAGAQPGVHALQLKPVCVSDSLKKGTKFVKWEDDSTVVTPIILRTDPQGFFFYWTDQNKETELLDLSLVKDARCGKHAKAPKDPKLRELLDVGNIGRLEHRMITVVYGPDLVNISHLNLVAFQEEVAKEWTNEVFSLATNLLAQNMSRDAFLEKAYTKLKLQVTPEGRIPLKNIYRLFSADRKRVETALEACSLPSSRNDSIPQEDFTPEVYRVFLNNLCPRPEIDNIFSEFGAKSKPYLTVDQMMDFINLKQRDPRLNEILYPPLKQEQVQVLIEKYEPNNSLAKKGQISVDGFMRYLSGEENGVVSPEKLDLNEDMSQPLSHYFINSSHNTYLTAGQLAGNSSVEMYRQVLLSGCRCVELDCWKGRTAEEEPVITHGFTMTTEISFKEVIEAIAECAFKTSPFPILLSFENHVDSPKQQAKMAEYCRLIFGDALLMEPLDKYPLESGVPLPSPMDLMYKILVKNKKKSHKSSEGSGKKKLSEQASNTYSDSSSVFEPSSPGAGEADTESDDDDDDDDCKKSSMDEGTAGSEAMATEEMSNLVNYIQPVKFESFEISKKRNRSFEMSSFVETKGLEQLTKSPVEFVEYNKMQLSRIYPKGTRVDSSNYMPQLFWNAGCQMVALNFQTVDLAMQINMGMYEYNGKSGYRLKPEFMRRPDKHFDPFTEGIVDGIVANTLSVKIISGQFLSDKKVGTYVEVDMFGLPVDTRRKAFKTKTSQGNAVNPIWEEEPIVFKKVVLPSLACLRIAVYEEGGKFIGHRILPVQAIRPGYHYICLRNERNQPLMLPALFVYIEVKDYVPDTYADVIEALSNPIRYVNLMEQRAKQLAALTLEDEEEVKKEADPGETPSEAPSEARPTPAENGVNHTTSLTPKPPSQALHSQPAPGSVKAPAKTEDLIQSVLTEVEAQTIEELKQQKSFVKLQKKHYKEMKDLVKRHHKKTTDLIKEHTTKYNEIQNDYLRRRAALEKTAKKDNKKKSEPSSPDHVSSTIEQDLAALDAEMTQKLVDLKDKQQQQLLNLRQEQYYSEKYQKREHIKLLIQKLTDVAEECQNNQLKKLKEICEKEKKELKKKMDKKRQEKITEAKSKDKSQMEEEKTEMIRSYIQEVVQYIKRLEEAQSKRQEKLVEKHKEIRQQILDEKPKLQVELEQEYQDKFKRLPLEILEFVQEAMKGKISEDSNHSSAPPLMTSDSGKLNQKPPSSEELEGENPGKEFDTPL |
| 3184 | sp|P30048|PRDX3\_HUMAN | MAAAVGRLLRASVARHVSAIPWGISATAALRPAACGRTSLTNLLCSGSSQAKLFSTSSSCHAPAVTQHAPYFKGTAVVNGEFKDLSLDDFKGKYLVLFFYPLDFTFVCPTEIVAFSDKANEFHDVNCEVVAVSVDSHFSHLAWINTPRKNGGLGHMNIALLSDLTKQISRDYGVLLEGSGLALRGLFIIDPNGVIKHLSVNDLPVGRSVEETLRLVKAFQYVETHGEVCPANWTPDSPTIKPSPAASKEYFQKVNQ |
| 3185 | sp|P35956|POL\_VILVK | MAKQGSKEKKGYPELKEVIKATCKIRVGPGKETLTEGNCLWALKTIDFIFEDLKTEPWTITKMYTVWDRLKGLTPEETSKREFASLQATLACIMCSQMGMKPETVQAAKGIISMKEGLHENKEAKGEKVEQLYPNLEKHREVYPIVNLQAGGRSWKAVESVVFQQLQTVAMQHGLVSEDFERQLAYYATTWTSKDILEVLAMMPGNRAQKELIQGKLNEEAERWVRQNPPGPNVLTVDQIMGVGQTNQQASQANMDQARQICLQWVITALRSVRHMSHRPGNPMLVKQKNTESYEDFIARLLEAIDAEPVTDPIKTYLKVTLSYTNASTDCQKQMDRTLGTRVQQATVEEKMQACRDVGSEGFKMQLLAQALRPQGKAGQKGVNQKCYNCGKPGHLARQCRQGIICHHCGKRGHMQKDCRQKKQQGKQQEGATCGAVRAPYVVTEAPPKIEIKVGTRWKKLLVDTGADKTIVTSHDMSGIPKGRIILQGIGGIIEGEKWEQVHLQYKDKIIRGTIVVLATSPVEVLGRDNMRELGIGLIMANLEEKKIPSTRVRLKEGCKGPHIAQWPLTQEKLEGLKEIVDRLEKEGKVGRAPPHWTCNTPIFCIKKKSGKWRMLIDFRELNKQTEDLAEAQLGLPHPGGLQRKKHVTILDIGDAYFTIPLYEPYRQYTCFTMLSPNNLGPCVRYYWKVLPQGWKLSPAVYQFTMQKILRGWIEEHPMIQFGIYMDDIYIGSDLGLEEHRGIVNELASYIAQYGFMLPEDKRQEGYPAKWLGFELHPEKWKFQKHTLPEITEGPITLNKLQKLVGDLVWRQSLIGKSIPNILKLMEGDRALQSERYIESIHVREWEACRQKLKEMEGNYYDEEKDIYGQLDWGNKAIEYIVFQEKGKPLWVNVVHSIKNLSQAQQIIKAAQKLTQEVIIRTGKIPWILLPGREEDWILELQMGNINWMPSFWSCYKGSVRWKKRNVIAEVVPGPTYYTDGGKKNGRGSLGYITSTGEKFRIHEEGTNQQLELRAIEEACKQGPEKMNIVTDSRYAYEFMLRNWDEEVIRNPIQARIMELVHNKEKIGVHWVPGHKGIPQNEEIDRYISEIFLAKEGRGILQKRAEDAGYDLICPQEISIPAGQVKRIAIDLKINLKKDQWAMIGTKSSFANKGVFVQGGIIDSGYQGTIQVVIYNSNNKEVVIPQGRKFAQLILMPLIHEELEPWGETRKTERGEQGFGSTGMYWIENIPLAEEEHNKWHQDAVSLHLEFGIPRTAAEDIVQQCDVCQENKMPSTLRGSNKRGIDHWQVDYTHYEDKIILVWVETNSGLIYAERVKGETGQEFRVQTMKWYAMFAPKSLQSDNGPAFVAESTQLLMKYLGIEHTTGIPWNPQSQALVERTHQTLKNTLEKLIPMFNAFESALAGTLITLNIKRKGGLGTSPMDIFIFNKEQQRIQQQSKSKQEKIRFCYYRTRKRGHPGEWQGPTQVLWGGDGAIVVKDRGTDRYLVIANKDVKFIPPPKEIQKE |
| 3186 | sp|Q969H6|POP5\_HUMAN | MVRFKHRYLLCELVSDDPRCRLSLDDRVLSSLVRDTIARVHGTFGAAACSIGFAVRYLNAYTGIVLLRCRKEFYQLVWSALPFITYLENKGHRYPCFFNTLHVGGTIRTCQKFLIQYNRRQLLILLQNCTDEGEREAIQKSVTRSCLLEEEEESGEEAAEAME |
| 3187 | sp|Q8AII1|POL\_SIVTN | MGARASVLRGDKLDTWESIRLKSRGRKKYLIKHLVWAGSELQRFAMNPGLMENVEGCWKIILQLQPSVDIGSPEIISLFNTICVLYCVHAGERVQDTEEAVKIVKMKLTVQKNNSTATSSGQRQNAGEKEETVPPSGNTGNTGRATETPSGSRLYPVITDAQGVARHQPISPRTLNAWVRVIEEKGFNPEVIPMFSALSEGATPYDLNSMLNAVGEHQAAMQMLKEVINEEAAEWDRAHPAHAGPQQAGMLREPTGADIAGTTSTLQEQVLWMTTPQAQGGVPVGDIYKRWIILGLNKLVRMYSPVSILDIKQGPKEPFRDYVDRFYKTIRAEQASQPVKTWMTETLLVQNANPDCKHILKALGQGATLEEMLTACQGVGGPSHKAKILAEAMASATAGGVNMLQGGKRPPLKKGQLQCFNCGKVGHTARNCRAPRKKGCWRCGQEGHQMKDCTTRNNSTGVNFFRETHPLVGVQTRELCAEHPREREGSGAGDSTDTSGANCPTTGDDDERRVLPQVNLWQRPMMTVKVQGQVCQALLDTGADDSVFCNIKLKGQWTPKTIGGIGGFVPVSEYYNIPVQIGNKEVRATVLVGETPINIIGRNILKQLGCTLNFPISPIEVVKVQLKEGMDGPKVKQWPLSKEKIEALTEICKTLEKEGKISAVGPENPYNTPIFAIKKKDTSKWRKLVDFRELNKRTQDFWELQLGIPHPAGLRKRNMVTVLDVGDAYFSIPLDPDFRKYTAFTIPSLNNNTPGKRFQYNVLPQGWKGSPAIFQSSMTKILDPFRKEHPDVDIYQYMDDLYIGSDLNEEEHRKLIKKLRQHLLTWGLETPDKKYQEKPPFMWMGYELHPNKWTVQNITLPEPEQWTVNHIQKLVGKLNWASQIYHGIKTKELCKLIRGVKGLTEPVEMTREAELELEENKQILKEKVQGAYYDPKLPLQAAIQKQGQGQWTYQIYQEEGKNLKTGKYAKSPGTHTNEIRQLAGLIQKIGNESIIIWGIVPKFLLPVSKETWSQWWTDYWQVTWVPEWEFINTPPLIRLWYNLLSDPIPEAETFYVDGAANRDSKKGRAGYVTNRGRYRSKDLENTTNQQAELWAVDLALKDSGAQVNIVTDSQYVMGVLQGLPDQSDSPIVEQIIQKLTQKTAIYLAWVPAHKGIGGNEEVDKLVSKNIRKILFLDGINEAQEDHDKYHSNWKALADEYNLPPVVAKEIIAQCPKCHIKGEAIHGQVDYSPEIWQIDCTHLEGKVIIVAVHVASGFIEAEVIPEETGRETAYFILKLAGRWPVKKIHTDNGPNFTSTAVKAACWWAQIQHEFGIPYNPQSQGVVESMNKQLKQIIEQVRDQAEQLRTAVIMAVYIHNFKRKGGIGEYTAGERLLDILTTNIQTKQLQKQILKVQNFRVYYRDARDPIWKGPARLLWKGEGAVVIKEGEDIKVVPRRKAKIIKEYGKQMAGAGGMDDRQNET |
| 3188 | sp|C0MHL9|POLG\_SAFV | MACKHGYPLLCPLCTALDITPDGSFTLLFDNEWYPTDLLTVNLDDDVFYPLDTNMDWTDLPLIQDIVMEPQGNSNSSDKNNSQSSGNEGVIINNYYSNQYQNSIDLSANANGVGKENSKPQGQLMNILGSAADAFKNIAPLLMDQNTEEMTNLSDRVSSDTAGNTATNTQSTVGRLFGFGQRHKGKHPASCADTATDKVLAAERYYTIKLASWTKTQESFDHIRVPLPHALAGENGGVFSSTLRRHYLCKCGWRIQVQCNASQFHAGSLLVFMAPEFDTSNHSTEVEPRADTAFKVDANWQKHAQILTGHAYVNTTTKVNVPLALNHQNFWQWTTYPHQILNLRTNTTCDLEVPYVNVCPTSSWTQHANWTLVIAVLTPLQYSQGSATTIEITASIQPVKPVFNGLRHTVVNPQSPFPVTVREHAGTFFSTTPDTTVPVYGNTISTPFDYMCGEFTDLLSLCKIPTFLGNLDSNKKRIPYFSATNSTPATPLVTYQVTLSCSCMANSMLAAVARNFNQYRGSLNYLFVFTGSAMTKGKFLISYTPPGAGEPKTLDQAMQATYAIWDLGLNSSYNFTVPFISPTHYRQTSYNTPTITSVDGWLTVWQLTPLTYPLGVPNDSHILTLVSGGDDFTLRMPVTFTKYVPQGVDNAEKGKVSDDNASTDFVAEPVKLPENQTRVSFVYDRSTLSSVLQSTSDVSSKFTPSTAKNLQNSILLTPLPSDIVNNSVLPEQERWISFASPTTQKPPYKTKQDWNFIMFSPFTYYKCDLEVTLSKNDRETISSVVRYVPCGAPSDLSDQTMPQTPSLADTRDPHMWVVGQGTTNQISFVIPYTSPLSVLPSVWFNGFSNFDNSSRFGVAPNADFGRLLLQGQGTFSVHYRYKKMRVFCPRPTVFIPWPNPQDTKIKSVRPTPTLELQNPISIYRVDLFINFSDEIIQFTYKVHGRTVCQYEIPGFGLSRSGRLLVCMGEKPCQLPISTPKCFYHIVFTGSRNSFGVSIYKARYRPWKQPLHDELHDYGFSTFTDFFKAVRDYHASYYKQRLQHDIETNPGPVQSVFQLQGGVLTKSQAPMSGLQSMLLRAIGIEADCTEFTRAVNLITDLCNTWESAKTTLSSPEFWTKMVMRIVKMFAASVLYLHNPDLTTTVCLSLMAGIDILTNDSVFNWLSTKLSKFFHTPAPPIVPLLQQQSPIREANDSFNLAKNIEWAIKTIKRIVEWITSWFKQEETSPQAKLDKMLTDFPEHCNSILAMRNGRKAYTDCASAFKYFEQLYNLAVQCKRIPLATLCEKFKNKHDHAVARPEPVVVVLRGNAGQGKSVTSQIIAQAVSKLSFGRQSVYSLPPDSDYLDGYENQYSVIMDDLGQNPDGEDFKVFCQMVSSTNFLPNMAHLEKKGTPFTSNFIIATTNLPKFRPVTVAHYPAVDRRITFDLTVEAGDECVTHNGMLDVEKAFEEIPGKPQLDCFNTDCRLLHKRGVRFVCNRTKNIYNLQQVVKMVKSTIDNKVENLKKMNTLVAQSPGNDMDYVLTCLRQTNAALQDQIDELQEAFNQAQERQNFLSDWLKVSAIVFASIASLSAVCKLVSRFKNLVCPAPVQIQLSEGEQAAYSGGKKGEKQTLQVLDVQGGGKIVAQAGNPVMDYEVNIAKNMVNPITFFYADKAQVTQSCLLIKGHLFVVNRHVAETDWCAFELKGTRHERDSVQMRSVNKSGMEVDLTFVKVVKGPLFKDNSKKFCSKDDDFPARNETVTGIMNTGVPFVFTGKFLIGNQPVNTTTGACFNHCIHYRATTHRGWCGSALICHVNGKKAVYAMHSAGGGGMAAATIITQEMIEAAEKALDCLTPQGAIVEIGIDTVVHVPRKTKLRRTVAHPCFQPKFEPAVLSRYDPRTTKDVDQVAFSKHTTNLEELPSVFSMVAREYATRVFTTIGKENKILTPEQAILGLPGMDPMEKDTSPGLPYTQQGLKRAQLVNFEQGTMVQNLKEAHTKLTEGNYEDILYQSFLKDEIRPIEKIHEAKTRIVDVPPFHHCIWGRQLLGRFASRFQTNPGLDLGSAIGTDPDTDWTAFAFQLLQYKYVYDVDYSNFDASHSTAMFEVLIENFFTTENGFDERIGDYLRSLAVSRHAFEERRVLVRGGLPSGCAATSMLNTIINNIVIRAALHLTYSNFEFDDIKVLSYGDDLLIATNYQINFNLVKQRLAPFNYKITPANKTVEFPEISNLYEVTFLKRKFVRYNSCLFKPQMDTENLKAMVSYCRPGTLKEKLNSIALLAVHSGKSVYDEIFDPFRRIGIIIPEHGTMLYRWLNLFR |
| 3189 | sp|F4I6M1|POLIA\_ARATH | MAMGVSLTSHNNPLLRHLSPSSSWVSRSSSRLSSSPLPSFLFPCRRTLLQRKLASTDGNVGYCTTTVCQGFQHSVHQRSSSVVFNGEWELRSESNKVRMVPKIIKVGNQTEVAETHQVPGTVSAWREEANKLRERNGQIARNLDDNGYFNGSVPIISSAPSYETSQKIDYEFKPRGTTRSTTATLNKELIGITQSEPVVSLPRKGLDVGDNMDVNPKGEGIQRPLISDKSSGTANGNKNTVAISKVERSTEPSNVRENLGKIYDKVLIVDNVQAAKDTVAKLVNQFRNHVHSCDTEVSGIEVKEETPVDHGELICFSIYCGPEADFGNGKSCIWVDVLGENGREVLAEFKPYFEDSFIRKVWHNYSFDSHIIRNHGIEISGFHADTMHMARLWDSARRIKGGYSLEALTSDPKVLGGTQTKEEAEFLGKISMKTIFGKRKLKKDGSEGKIVVIPPVEELQREDREAWISYSALDAISTLKLYESMTKKLQLMDWHLDGKPVLGRTMLDFYHEFWRPFGELLVKMEAEGILVDREYLAEIEKVAKAEQQVAGSRFRNWASKYCPDAKYMNIGSDTQLRQLFFGGISNSHDEVLPVEKLFKVPNIDKVIEEGKKTPTKFRNIKLHRISDSPLSTENFTASGWPSVGGDVLKELAGKVSAEYDFMDDVSDISLEEVVEDDDVETSETQKSKTDDETDTSAYGTAYVAFGGGERGKEACHAIASLCEVCSIDSLISNFILPLQGSNVSGKDGRVHCSLNINTETGRLSARRPNLQNQPALEKDRYKIRKAFVASPGNTLVVADYGQLELRILAHLTGCKSMMEAFKAGGDFHSRTAMNMYPHVREAVENGQVILEWHPEPGEDKPPVPLLKDAFGSERRKAKMLNFSIAYGKTAVGLSRDWKVSTKEAQETVDLWYNDRQEVRKWQEMRKKEAIEDGYVLTLLGRSRRFPASKSRAQRNHIQRAAINTPVQGSAADVAMCAMLEISINQQLKKLGWRLLLQIHDEVILEGPIESAEIAKDIVVDCMSKPFNGRNILSVDLSVDAKCAQNWYAAK |
| 3190 | sp|P35700|PRDX1\_MOUSE | MSSGNAKIGYPAPNFKATAVMPDGQFKDISLSEYKGKYVVFFFYPLDFTFVCPTEIIAFSDRADEFKKLNCQVIGASVDSHFCHLAWINTPKKQGGLGPMNIPLISDPKRTIAQDYGVLKADEGISFRGLFIIDDKGILRQITINDLPVGRSVDEIIRLVQAFQFTDKHGEVCPAGWKPGSDTIKPDVNKSKEYFSKQK |
| 3191 | sp|P86480|PR20D\_HUMAN | MEEPRPSKRLRSMAPNQASGGPPPEPGCCVADPEGSVEADGPAQPAQPAKPIAYVKPFRRQPPARPESPPPAERGRRRGGSRRPGRGRGRRAGPRGDAGQRQGAEGLMAPDVHIQLDHHGEPGHQGEPEITETAAFSLSETGPPPGTVQEGPGPDVAQPELGFQEPPAAPGPQAVDWQPVLTLYPCIGFRALGDSAVLQVIQTPQGTYVQGVPVFLTDIAY |
| 3192 | sp|P69874|POTA\_ECOLI | MGQSKKLNKQPSSLSPLVQLAGIRKCFDGKEVIPQLDLTINNGEFLTLLGPSGCGKTTVLRLIAGLETVDSGRIMLDNEDITHVPAENRYVNTVFQSYALFPHMTVFENVAFGLRMQKTPAAEITPRVMEALRMVQLETFAQRKPHQLSGGQQQRVAIARAVVNKPRLLLLDESLSALDYKLRKQMQNELKALQRKLGITFVFVTHDQEEALTMSDRIVVMRDGRIEQDGTPREIYEEPKNLFVAGFIGEINMFNATVIERLDEQRVRANVEGRECNIYVNFAVEPGQKLHVLLRPEDLRVEEINDDNHAEGLIGYVRERNYKGMTLESVVELENGKMVMVSEFFNEDDPDFDHSLDQKMAINWVESWEVVLADEEHK |
| 3193 | sp|P27973|POL\_SIVV1 | MGAATSALNRRQLDEFEHIRLRPNGKKKYQIKHLIWAGKKMDRFGLHEKLLETEEGCKKIIEVLSPLEPTGSEGMKSLYNLVCVLLCVHQEKKVKDTEEALAIVRQCCHLVDKEKTAVTPPGGQQKNNTGGTATPGGSQNFPAQQQGNAWVHVPLSPRTLNAWVKAVEEKKFGAEIVPMFQALSEGCTPYDINQMLNVLGDHQGALQIVKEIINEEAAQWDVTHPPPAGPLPAGQLRDPGGSDIAGTTSTVQEQLEWIYTANPRVDVGAIYRRWIILGLQKCVKMYNPVSVLDIRQGPKEPFKDYVDRFYKAIRAEQASGEVKQWMTESLLIQNANPDCKVILKGLGMHPTLEEMLTACQGVGGPSYKAKVMAEMMQNLQSQNMVQQGGGRGRPRPPPKCYNCGKFGHMQRQCPEPRKIKCLKCGKPGHLAKDCRGQVNFFRVWPVDGDKTKKFSRSHSWGGTKCAPSTEQLYTLRPSKEAPAAVCRERETNEKSEQKPPSEQSRLERGIFFELPLWRRPIRTCIIGGTAVKALLDTGADDTIIKDTDLQLRGSWRPKIVGGIGGGLNVKEYDNVEVQLEDKILRGTVLIGATPINIIGRNFLAQAGAKLVMGQLSQTIPITPVRLKEGARGPRLKQWPLSKEKIIALQEICKTLEEEGKLSRVGGDNAYNTPVFCIRKKDKSQWRMLVDFRELNKATQDFFEVQLGIPHPAGLKKMKQITIIDVGDAYYSIPLDPEFRKYTAFTIPTVNNEGPGIRYQFNCLPQGWKGSPTIFQNTASKILEEIKKELKQLTIVQYMDDLWVGSQEEGPKHDQLVQTLRNRLQEWGLETPEKKVQREPPFEWMGYKLWPHKWKLQSIELEKKEQWTVNDLQKLVGKLNWAAQLYPGLRTKNICKLLRGKKNLLDVVEWTPEAEAEYEENKEILKTEQEGTYYAPEKPLRAAVQKLGDGQWSYQFKQEGKILKVGKFAKQKATHTNELRVLAGVVQKIGKEALVIWGQLPTFELPVERDTWEQWWADYWQVSWIPEWDFVSVPPLVTLWYTLTKEPIPGEDVYYVDGACNRQSKEGKAGYITQQGKQRVQQLENTTNQQAELTAIKMALEDSGPKVNIVTDSQYAMGILTAQPTQSDSPLVEQIIAQMVQKEAIYLQWVPAHKGIGGNEEIDKLVSKGVRRILFIGRIEEAQEEHDRYHSNWRNLADTFGLPQIVAKEIVAMCPKCQVKGEPIHGQVDASPGVWQMDCTHIEGKIVIVAVHVASGFIEAEVIPRETGKETAKFLLKIIGRWPITHLHTDNGPNFTSQEVAAMCWWGKVEHTTGVPYNPQSQGSIESMNKQLKEIIGKIRDDCQYTETAVLMACHIHNFKRKGGIGGLTAAERLINMITTQLEINTLQTKIQKILNFRVYYREGRDPVWKGPARLIWKGEGAVVLKEGEELKVVPRRKAKIIKDYEPRKTLGDETHLEGAGGSDHQMAGDS |
| 3194 | sp|Q4QXJ8|POLN\_EEEVF | MEKVHVDLDADSPFVKSLQRCFPHFEIEATQVTDNDHANARAFSHLATKLIEGEVDTDQVILDIGSAPVRHTHSKHKYHCICPMKSAEDPDRLYRYADKLRKSDVTDKCIASKAADLLTVMSTPDAETPSLCMHTDSTCRYHGSVAVYQDVYAVHAPTSIYYQALKGVRTIYWIGFDTTPFMYKNMAGAYPTYNTNWADESVLEARNIGLGSSDLHEKSFGKVSIMRKKKLQPTNKVIFSVGSTIYTEERILLRSWHLPNVFHLKGKTSFTGRCNTIVSCEGYVVKKITLSPGIYGKVDNLASTMHREGFLSCKVTDTLRGERVSFPVCTYVPATLCDQMTGILATDVSVDDAQKLLVGLNQRIVVNGRTQRNTNTMQNYLLPVVAQAFSRWAREHRADLEDEKGLGVRERSLVMGCCWAFKTHKITSIYKRPGTQTIKKVPAVFNSFVIPQPTSYGLDIGLRRRIKMLFDAKKAPAPIITEADVAHLKGLQDEAEAVAEAEAVRAALPPLLPEVDKETVEADIDLIMQEAGAGSVETPRRHIKVTTYPGEEMIGSYAVLSPQAVLNSEKLACIHPLAEQVLVMTHKGRAGRYKVEPYHGRVIVPSGTAIPILDFQALSESATIVFNEREFVNRYLHHIAVNGGALNTDEEYYKVVKSTETDSEYVFDIDAKKCVKKGDAGPMCLVGELVDPPFHEFAYESLKTRPAAPHKVPTIGVYGVPGSGKSGIIKSAVTKRDLVVSAKKENCMEIIKDVKRMRGMDIAARTVDSVLLNGVKHSVDTLYIDEAFACHAGTLLALIAIVKPKKVVLCGDPKQCGFFNMMCLKVHFNHEICTEVYHKSISRRCTKTVTSIVSTLFYDKRMRTVNPCNDKIIIDTTSTTKPLKDDIILTCFRGWVKQLQIDYKNHEIMTAAASQGLTRKGVYAVRYKVNENPLYAQTSEHVNVLLTRTEKRIVWKTLAGDPWIKTLTASYPGNFTATLEEWQAEHDAIMAKILETPASSDVFQNKVNVCWAKALEPVLATANITLTRSQWETIPAFKDDKAYSPEMALNFFCTRFFGVDIDSGLFSAPTVPLTYTNEHWDNSPGPNMYGLCMRTAKELARRYPCILKAVDTGRVADVRTDTIKDYNPLINVVPLNRRLPHSLVVTHRYTGNGDYSQLVTKMTGKTVLVVGTPMNIPGKRVETLGPSPQCTYKAELDLGIPAALGKYDIIFINVRTPYRHHHYQQCEDHAIHHSMLTRKAVDHLNKGGTCIALGYGTADRATENIISAVARSFRFSRVCQPKCAWENTEVAFVFFGKDNGNHLQDQDRLSVVLNNIYQGSTQHEAGRAPAYRVVRGDITKSNDEVIVNAANNKGQPGSGVCGALYRKWPGAFDKQPVATGKAHLVKHSPNVIHAVGPNFSRLSENEGDQKLSEVYMDIARIINNERFTKVSIPLLSTGIYAGGKDRVMQSLNHLFTAMDTTDADITIYCLDKQWESRIKEAITRKESVEELTEDDRPVDIELVRVHPLSSLAGRPGYSTTEGKVYSYLEGTRFHQTAKDIAEIYAMWPNKQEANEQICLYVLGESMNSIRSKCPVEESEASSPPHTIPCLCNYAMTAERVYRLRMAKNEQFAVCSSFQLPKYRITGVQKIQCSKPVIFSGTVPPAIHPRKFASVTVEDTPVVQPERLVPRRPAPPVPVPARIPSPPCTSTNGSTTSIQSLGEDQSASASSGAEISVDQVSLWSIPSATGFDVRTSSSLSLEQPTFPTMVVEAEIHASQGSLWSIPSITGSETRAPSPPSQDSRPSTPSASGSHTSVDLITFDSVAEILEDFSRSPFQFLSEIKPIPAPRTRVNNMSRSADTIKPIPKPRKCQVKYTQPPGVARVISAAEFDEFVRRHSNXRYEAGAYIFSSETGQGHLQQKSTRQCKLQYPILERSVHEKFYAPRLDLEREKLLQKKLQLCASEGNRSRYQSRKVENMKAITVERLLQGIGSYLSAEPQPVECYKVTYPAPMYSSTASNSFSSAEVAVKVCNLVLQENFPTVASYNITDEYDAYLDMVDGASCCLDTATFCPAKLRSFPKKHSYLRPEIRSAVPSPIQNTLQNVLAAATKRNCNVTQMRELPVLDSAAFNVECFKKYACNDEYWDFYKTNPIRLTAENVTQYVTKLKGPKAAALFAKTHNLQPLHEIPMDRFVMDLKRDVKVTPGTKHTEERPKVQVIQAADPLATAYLCGIHRELVRRLNAVLLPNIHTLFDMSAEDFDAIIAEHFQFGDAVLETDIASFDKSEDDAIAMSALMILEDLGVDQALLNLIEAAFGNITSVHLPTGTRFKFGAMMKSGMFLTLFINTVVNIMIASRVLRERLTTSPCAAFIGDDNIVKGVTSDALMAERCATWLNMEVKIIDAVVGVKAPYFCGGFIVVDQITGTACRVADPLKRLFKLGKPLPLDDDQDVDRRRALHDEAARWNRIGITEELVKAVESRYEVNYVSLIITALTTLASSVSNFKHIRGHPITLYG |
| 3195 | sp|Q9QL88|POLG\_CXB6S | MGAQVSTQKTGAHETALNAQGNSVIHYTNINYYKDAASNSANRQDFTQDPSKFTEPVKDVMIKSLPALNSPTVEECGYSDRVRSITLGNSTITTQECANVVVAYGVWPDYLHDDEATAEDQPTQPDVATCRFYTLDSVSWQSSSAGWWWKFPDALSNMGLFGQNMQYHYLGRSGYTIHVQCNASKFHQGCLLVVCVPEAEMGCSNLNNAPLAADLSAGEVARQFTVEPANGQNQVQTAVHNAAMGVAVGNLTIFPHQWINLRTNNSATIVMPYINSVPMDNMFRHNNFTLMIIPFAKLAYSDGASTFVPITVTIAPMNAEYNGLRLAGHQGLPVMTTPGSTQFLTSDDFQSPCAMPQFDVTPEMNIPGQVNNLMEIAEVDSVVPVNNTETNVNGMDAYRIPVQSNMDTGGQVFGFPLQPGASSVFQRTLLGEILNYYTHWSGSIKLTFMFCGSAMATGKFLLAYSPPGAGAPKSRKDAMLGTHVIWDVGLQSSCVLCIPWISQTHYRFVVADEYTAGGFITCWYQTNVIVPLGAQSNCSILCFVSACNDFSVRMLRDTKFISQTAFYQSPVEGAIERAIARVADTMPSGPTNSEAVPALTAVETGHTSQVVPSDNMQTRHVKNYHSRSETSVENFLCRSACVYFTTYKNQTGATNRFASWVITTRQVAQLRRKLEMFTYLRFDIELTFVITSAQDQSTISQDAPVQTHQIMYVPPGGPVPTKVDDYAWQTSTNPSVFWTEGNAPPRMSVPFMSIGNAYSTFYDGWSDFSNKGIYGLNTLNNMGTLYIRHVNGPNPVPITSTVRIYFKPKHVKAWVPRPPRLCQYKTSRQVNFTVTGVTESRANITTMNTTGAFGQQSGAAYVGNYRVVNRHLATHADWQNCVWEDYNRDLLVSTTTAHGCDVIARCQCNTGVYFCASRNKHYPVTFEGPGLVEVQESEYYPKRYQSHVLLAAGFSEPGDCGGILRCEHGVIGLVTMGGEGVVGFADVRDLLWLEDDAMEQGVRDYVEQLGNAFGSGFTNQICEQVNLLKESLVGQDSILEKSLKALVKIISALVIVVRNHDDLITVTATLALIGCTTSPWRWLKQKVSQYYGIPMAERQSNGWLKKFTEMTNACKGMEWIAIKIQKFIEWLKARILPEVKEKHEFLNRLKQLPLLESQIATIEQSAPSQSDQEQLFSNVQYFAHYCRKYAPLYAAEAKRVFSLEKKMSNYIQFKSKCRIEPVCLLLHGSPGAGKSVATSLIGRSLAEKLNSSVYSLPPDPDHFDGYKQQAVVIMDDLCQNPDGKDVSLFCQMVSSVDFVPPMAALEEKGILFTSPFVLASTNAGSINAPTVSDSRALARRFHFDMNIEVISMYSQNGKINMPMSVKTCDEECCPVNFKKCCPLVCGKAIQFIDRRTQVRYSLDMLVTEMFREYNHRHSVGATLEALFQGPPVYREIKISVAPETPPPPAIADLLKSVDSEAVREYCKEKGWLVPEINSTLQIEKHVSRAFICLQALTTFVSVAGIIYIIYKLFAGFQGAYTGMPNQKPKVPTLRQAKVQGPAFEFAVAMMKRNSSTVKTEYGEFTMLGVYDRWAVLPRHAKPGPTILMNDQEVGVLDAKELVDKDGTNLELTLLKLNRNEKFRDIRGFLAKEEVEVNEAVLAINTSKFPNMYIPVGQVTDYGFLNLGGTPTKRMLMYNFPTRAGQCGGVLMSTGKVLGIHVGGNGHQGFSAALLKHYFNDEQGEIEFIESSKDAGFPIINTPSKTKLEPSVFHQVFEGNKEPAVLRNGDPRLKANFEEAIFSKYIGNVNTHVDEYMLEAVDHYAGQLATLDINTEPMKLEDAVYGTEGLEALDLTTSAGYPYVALGIKKRDILSKKSKDLTKLKECMDKYGLNLPMVTYVKDELRSAEKVAKGKSRLIEASSLNDSVAMRQTFGNLYKTFHLNPGIVTGSAVGCDPDLFWSKIPVMLDGHLIAFDYSGYDASLSPVWFACLKLLLEKLGYTHKETNYIDYLCNSHHLYRDKHYFVRGGMPSGCSGTSIFNSMINNIIIRTLMLKVYKGIDLDQFRMIAYGDDVIASYPWPIDASLLAEAGKGYGLIMTPADKGECFNEVTWTNVTFLKRYFRADEQYPFLVHPVMPMKDIHESIRWTKDPKNTQDHVRSLCLLAWHNGEHEYEEFIRKVRSVPVGRCLTLPAFSTLRRKWLDSF |
| 3196 | sp|Q9VWV9|PORCN\_DROME | MDYQYFEEESDYIDLDEEEEDDDVVTAGSLDHRFGQPNGEEDYYFGGDDVEEELVVDGHGVLELAGRLLESLQSCVQPSVLQVMQYVAPMLLLCLLCRLLCLLYSQRRRLTSLAPLHLFHFACGLIILQITVGYRLLLLLLLAAVGYLLLQLLRLGRRGAQVLAVLTVGSQFLYELLIWRRRSDWPQLRGIQMVVNMKLISLGFDLTASGQLQARIPGPFAYLGYIYSPATCALGPWVSFGCYMDCLVPRNSWLVSLRRLLPNVVICVLAVTVSNCVAPALSDFFGDSSHFLVMYWDALSVRSSHYFVGMMAQALLVASDQRLDGATKESDMLGPLISQPWRIEWPRSISSLVRSWNIPMHEWLKRYIYAPCKPTASTSRGRILVVVLSTYLVSSLLHGMDLRIYLVLISLAFLAEGESLLRRQLASLLNACITANLCPGKERCRYSHCPSKRRLNSLSYWLARLTNLAFTALAIFHLAYLGVVLLGDDLEVGEDGDSFLWHWQQAGYLSHYIGLGTFVLYLFIS |
| 3197 | sp|Q9CR16|PPID\_MOUSE | MSHASPAAKPSNSKNPRVFFDVDIGGERVGRIVLELFADIVPKTAENFRALCTGEKGTGSTTGKPLHFKGCPFHRIIKKFMIQGGDFSNQNGTGGESIYGEKFEDENFHYKHDREGLLSMANAGPNTNGSQFFITTVPTPHLDGKHVVFGQVIKGLGVARTLENVEVNGEKPAKLCVIAECGELKEGDDWGIFPKDGSGDSHPDFPEDADIDLKDVDKILLISEDLKNIGNTFFKSQNWEMAIKKYAKVLRYVDSSKAVIEKADRSRLQPIALSCVLNIGACKLKMSNWQGAIDSCLEALEMDPSNTKALYRKAQGWQGLKEYDQALADLKKAQEIAPGDKAIQAELLKVKQMIKAQKDKEKAVYAKMFA |
| 3198 | sp|P97458|PROP1\_MOUSE | MEAQRRSHQEKQTKGHACGRSLPEPRVASGTLISTVDRSSEAYRRLSGTELGRPKLCPQRGRPHSRRRHRTTFNPAQLEQLESAFGRNQYPDIWAREGLAQDTGLSEARIQVWFQNRRAKQRKQERSLLQPIAHLSTATFSGFLPESSAYPYTYGTPPPPAPCFPHPYSHSLPSQPSTAASLALPPQPEDWYPTLHPAPTGHLPCPPPPPMFPLSLETPKSWN |
| 3199 | sp|P07737|PROF1\_HUMAN | MAGWNAYIDNLMADGTCQDAAIVGYKDSPSVWAAVPGKTFVNITPAEVGVLVGKDRSSFYVNGLTLGGQKCSVIRDSLLQDGEFSMDLRTKSTGGAPTFNVTVTKTDKTLVLLMGKEGVHGGLINKKCYEMASHLRRSQY |
| 3200 | sp|P04963|PRXC\_LEPFU | MFSKVLPFVGAVAALPHSVRQEPGSGIGYPYDNNTLPYVAPGPTDSRAPCPALNALANHGYIPHDGRAISRETLQNAFLNHMGIANSVIELALTNAFVVCEYVTGSDCGDSLVNLTLLAEPHAFEHDHSFSRKDYKQGVANSNDFIDNRNFDAETFQTSLDVVAGKTHFDYADMNEIRLQRESLSNELDFPGWFTESKPIQNVESGFIFALVSDFNLPDNDENPLVRIDWWKYWFTNESFPYHLGWHPPSPAREIEFVTSASSAVLAASVTSTPSSLPSGAIGPGAEAVPLSFASTMTPFLLATNAPYYAQDPTLGPNDKREAAPAATTSMAVFKNPYLEAIGTQDIKNQQAYVSSKAAAMASAMAANKARNL |
| 3201 | sp|Q84JQ4|PRK2\_ARATH | MESKCLMFVSIVSVFFMVVNGVSETETLLKFKNSLVIGRANALESWNRRNPPCKWTGVLCDRGFVWGLRLENLELSGSIDIEALMGLNSLRSLSFINNKFKGPFPEFKKLVALKSLYLSNNQFDLEIPKDAFDGMGWLKKLHLEQNNFIGEIPTSLVKSPKLIELRLDGNRFTGQIPEFRHHPNMLNLSNNALAGQIPNSFSTMDPKLFEGNKGLCGKPLDTKCSSPYNHSSEPKSSTKKTSSKFLYIVAAAVAALAASLIIIGVVIFLIRRRKKKQPLLSAEPGPSSLQMRAGIQESERGQGSYHSQNRAAKKMIHTTKLSFLRDDKGKFELQDLLKASAEILGSGCFGASYKTLLSNGSVMVVKRFKHMNSAGIDEFQEHMKRLGRLNHENLLPIVAYYYKKEEKLFVSDFVANGSLAAHLHGHKSLGQPSLDWPTRFNIVKGVGRGLLYLHKNLPSLMAPHGHLKSSNVLLSEKFEPLLMDYGLIPMINEESAQELMVAYKSPEYVKQSRVTKKTDVWGLGVLILEILTGKLLESFSQVDKESEEDLASWVRSSFKGEWTQELFDQEMGKTSNCEAHILNLMRIGLSCCEVDVEKRLDIREAVEKMEDLMKEREQGDDDFYSTYASEADGRSSRGLSSEGINLS |
| 3202 | sp|Q9W6T7|PSN1\_DANRE | MADLVQNAANNVLNDGMDTSRHTSSTAAPPSRNEVELNGQPPTAPPPQVVTDSEEDEDEELTLKYGAKHVIMLFIPVTLCMVVVVATIKSVSFYTQKDGQQLIYTPFREDTETVGQRALHSMLNAIIMISVIVVMTLVLVVLYKYRCYKVIQAWLFFSNLLLLFFFSLIYLGEVFKTYNVAMDYFTLALIIWNFGVVGMICIHWKGPLRLQQAYLIMISALMALVFIKYLPEWTAWLILAAISVYDLLAVLCPKGPLRILVETAQERNEAIFPALIYSSTMVWLFNMADSAETRNNSSHPVPQQENQVVAMAPTAQAEDDGGFTPAWVDHQQHQLGPMQSTEESRRQIQEMPSARPPPPADDDEERGVKLGLGDFIFYSMLVGKASATASGDWNTTLACFVAILIGLCLTLLLLAIFKKALPALPISITFGLVFYFATDNLVRPFMDQLAVHQFYI |
| 3203 | sp|Q9VWU1|PSH\_DROME | MPLKWSLLLGTFVLISCSSVEAAVTVGRACKVTDTMPGICRTSSDCEPLIDGYIKSGVLTLNDVPSCGLGAWGEIFCCPTKPCCDNSTITSVSTSSTTSTKAPMTSGRVDVPTFGSGDRPAVAACKKIRERKQQRSGNQLVIHIVGGYPVDPGVYPHMAAIGYITFGTDFRCGGSLIASRFVLTAAHCVNTDANTPAFVRLGAVNIENPDHSYQDIVIRSVKIHPQYVGNKYNDIAILELERDVVETDNIRPACLHTDATDPPSNSKFFVAGWGVLNVTTRARSKILLRAGLELVPLDQCNISYAEQPGSIRLLKQGVIDSLLCAIDQKLIADACKGDSGGPLIHELNVEDGMYTIMGVISSGFGCATVTPGLYTRVSSYLDFIEGIVWPDNRV |
| 3204 | sp|P05458|PTRA\_ECOLI | MPRSTWFKALLLLVALWAPLSQAETGWQPIQETIRKSDKDNRQYQAIRLDNGMVVLLVSDPQAVKSLSALVVPVGSLEDPEAYQGLAHYLEHMSLMGSKKYPQADSLAEYLKMHGGSHNASTAPYRTAFYLEVENDALPGAVDRLADAIAEPLLDKKYAERERNAVNAELTMARTRDGMRMAQVSAETINPAHPGSKFSGGNLETLSDKPGNPVQQALKDFHEKYYSANLMKAVIYSNKPLPELAKMAADTFGRVPNKESKKPEITVPVVTDAQKGIIIHYVPALPRKVLRVEFRIDNNSAKFRSKTDELITYLIGNRSPGTLSDWLQKQGLVEGISANSDPIVNGNSGVLAISASLTDKGLANRDQVVAAIFSYLNLLREKGIDKQYFDELANVLDIDFRYPSITRDMDYVEWLADTMIRVPVEHTLDAVNIADRYDAKAVKERLAMMTPQNARIWYISPKEPHNKTAYFVDAPYQVDKISAQTFADWQKKAADIALSLPELNPYIPDDFSLIKSEKKYDHPELIVDESNLRVVYAPSRYFASEPKADVSLILRNPKAMDSARNQVMFALNDYLAGLALDQLSNQASVGGISFSTNANNGLMVNANGYTQRLPQLFQALLEGYFSYTATEDQLEQAKSWYNQMMDSAEKGKAFEQAIMPAQMLSQVPYFSRDERRKILPSITLKEVLAYRDALKSGARPEFMVIGNMTEAQATTLARDVQKQLGADGSEWCRNKDVVVDKKQSVIFEKAGNSTDSALAAVFVPTGYDEYTSSAYSSLLGQIVQPWFYNQLRTEEQLGYAVFAFPMSVGRQWGMGFLLQSNDKQPSFLWERYKAFFPTAEAKLRAMKPDEFAQIQQAVITQMLQAPQTLGEEASKLSKDFDRGNMRFDSRDKIVAQIKLLTPQKLADFFHQAVVEPQGMAILSQISGSQNGKAEYVHPEGWKVWENVSALQQTMPLMSEKNE |
| 3205 | sp|Q9QX98|PTF1A\_MOUSE | MDAVLLEHFPGGLDTFPSPYFDEEDFFTDQSSRDPLEDSDELLGDEQAEVEFLSHQLHEYCYRDGACLLLQPAPSAAPHALAPPPLGDPGEPEDNVSYCCDAGAPLAAFPYSPGSPPSCLAYPCAAVLSPGARLGGLNGAAAAAAARRRRRVRSEAELQQLRQAANVRERRRMQSINDAFEGLRSHIPTLPYEKRLSKVDTLRLAIGYINFLSELVQADLPLRGSGAGGCGGPGGSRHLGEDSPGNQAQKVIICHRGTRSPSPSDPDYGLPPLAGHSLSWTDEKQLKEQNIIRTAKVWTPEDPRKLNSKSFDNIENEPPFEFVS |
| 3206 | sp|Q9SNC6|PUB13\_ARATH | MEEEKASAAQSLIDVVNEIAAISDYRITVKKLCYNLARRLKLLVPMFEEIRESNEPISEDTLKTLMNLKEAMCSAKDYLKFCSQGSKIYLVMEREQVTSKLMEVSVKLEQSLSQIPYEELDISDEVREQVELVLSQFRRAKGRVDVSDDELYEDLQSLCNKSSDVDAYQPVLERVAKKLHLMEIPDLAQESVALHEMVASSGGDVGENIEEMAMVLKMIKDFVQTEDDNGEEQKVGVNSRSNGQTSTAASQKIPVIPDDFRCPISLEMMRDPVIVSSGQTYERTCIEKWIEGGHSTCPKTQQALTSTTLTPNYVLRSLIAQWCEANDIEPPKPPSSLRPRKVSSFSSPAEANKIEDLMWRLAYGNPEDQRSAAGEIRLLAKRNADNRVAIAEAGAIPLLVGLLSTPDSRIQEHSVTALLNLSICENNKGAIVSAGAIPGIVQVLKKGSMEARENAAATLFSLSVIDENKVTIGALGAIPPLVVLLNEGTQRGKKDAATALFNLCIYQGNKGKAIRAGVIPTLTRLLTEPGSGMVDEALAILAILSSHPEGKAIIGSSDAVPSLVEFIRTGSPRNRENAAAVLVHLCSGDPQHLVEAQKLGLMGPLIDLAGNGTDRGKRKAAQLLERISRLAEQQKETAVSQPEEEAEPTHPESTTEAADT |
| 3207 | sp|Q8T6B9|PUF68\_DROME | MGSNDRASRSPRSDDQREISDMPATKRTRSDSGKSTDSKIPYLSQPLYDLKQTGDVKFGPGTRSALLGLLGGALPKLSSEQHDLVSKAKKYAMEQSIKMVLMKQTLAHQQQQLATQRTQVQRQQALALMCRVYVGSISFELKEDTIRVAFTPFGPIKSINMSWDPITQKHKGFAFVEYEIPEGAQLALEQMNGALMGGRNIKVGRPSNMPQAQQVIDEVQEEAKSFNRIYVASIHPDLSEEDIKSVFEAFGPILYCKLAQGTSLHTHKGYGFIEYANKQAMDEAIASMNLFDLGGQLLRVGRSITPPNALACPTTNSTMPTAAAVAAAAATAKIQALDAVASNAVLGLSQNTPVMAAGAVVTKVGAMPVVSAATSAAALHPALAQAAPALLPPGIFQAPTPVAPSLLGVPAGLQPLQAVVPTLPPPALLATPTLPMTVGGVGVGLVPTVATLAGAEASKGAAAAAALSAAANNAAVTAANLSENIKKAHEKQQEELQKKLMDEGDVQTLQQQENMSIKGQSARQLVMQRLMRPVDSRVIILRNMVGPEDVDETLQEEIQEECSKFGTVSRVIIFNEKQTENEDDDEAEIIVKIFVEFSAGAEAMRGKEALDGRFFGGRRVVAELYDQGIFDQGDLSG |
| 3208 | sp|P25822|PUM\_DROME | MKFLGGNDDRNGRGGVGVGTDAIVGSRGGVSQDAADAAGAAAAAAVGYVFQQRPSPGGVGVGVGGVGGGVPGVGAVGSTLHEAAAAEYAAHFAQKQQQTRWACGDDGHGIDNPDKWKYNPPMNPANAAPGGPPGNGSNGGPGAIGTIGMGSGLGGGGGGGAGGGNNGGSGTNGGLHHQSMAAAAANMAAMQQAAALAKHNHMISQAAAAVAAQQQHQHPHQQHPQQQQQQQQAQNQGHPHHLMGGGNGLGNGNGLGIQHPGQQQQQQQQQQQQQHPGQYNANLLNHAAALGHMSSYAQSGGSMYDHHGGAMHPGMNGGMPKQQPLGPPGAGGPQDYVYMGGQTTVPMGAAMMPPQNQYMNSSAVAAANRNAAITTSTAKKLWEKSDGKGVSSSTPGGPLHPLQIPGIGDPSSVWKDHTWSTQGENILVPPPSRAYAHGGASDTSNSGNAGILSPRDSTCAKVVEYVFSGSPTNKDSSLSGLEPHLRNLKFDDNDKSRDDKEKANSPFDTNGLKKDDQVTNSNGVVNGIDDDKGFNRTPGSRQPSPAEESQPRPPNLLFPPLPFNHMLMDHGQGMGGGLGGVVGSGNGVGGGSGGGGAGGAYAAHQQMAAQMSQLQPPMMNGVGGGMPMAAQSPMLNHQAAGPNHMESPGNLLQQQNFDVQQLFRSQNPGLAAVATNAAAAAAAAAAATSAASAAAAVGAPPVPNGSLQQSQQQQQQQQQQQQQQQMHMAAASQQFLAAQQQAQNAAYAAQQATSYVINPGQEAAPYMGMIAAAQMPYYGVAPWGMYPGNLIPQQGTQPRRPLTPSQQGAENQPYQVIPAFLDHTGSLLMGGPRTGTPMRLVSPAPVLVPPGATRAGPPPPQGPQLYQPQPQTAQQNLYSQQNGSSVGGLALNTSSLTGRRDSFDRSTSAFSPSTMDYTSSGVAAAANAVNSTVAQAAAAAAAAAAARGKWPGAMSGAASGAYGALGAGNASASPLGAPITPPPSAQSCLLGSRAPGAESRQRQQQQQQLAAVGLPATAAAAQAAVAAAANNMFGSNSSIFSNPLAIPGTAAVAAAAAAAAAANSRQVAATAAAAAAVAAAAGGVGGAPQPGRSRLLEDFRNQRYPNLQLRDLANHIVEFSQDQHGSRFIQQKLERATAAEKQMVFSEILAAAYSLMTDVFGNYVIQKFFEFGTPEQKNTLGMQVKGHVLQLALQMYGCRVIQKALESISPEQQQEIVHELDGHVLKCVKDQNGNHVVQKCIECVDPVALQFIINAFKGQVYSLSTHPYGCRVIQRILEHCTAEQTTPILDELHEHTEQLIQDQYGNYVIQHVLEHGKQEDKSILINSVRGKVLVLSQHKFASNVVEKCVTHATRGERTGLIDEVCTFNDNALHVMMKDQYANYVVQKMIDVSEPTQLKKLMTKIRPHMAALRKYTYGKHINAKLEKYYMKITNPITVGTGAGGVPAASSAAAVSSGATSASVTACTSGSSTTTTSTTNSLASPTICSVQENGSAMVVEPSSPDASESSSSVVSGAVNSSLGPIGPPTNGNVVL |
| 3209 | sp|P25961|PTH1R\_RAT | MGAARIAPSLALLLCCPVLSSAYALVDADDVFTKEEQIFLLHRAQAQCDKLLKEVLHTAANIMESDKGWTPASTSGKPRKEKASGKFYPESKENKDVPTGSRRRGRPCLPEWDNIVCWPLGAPGEVVAVPCPDYIYDFNHKGHAYRRCDRNGSWEVVPGHNRTWANYSECLKFMTNETREREVFDRLGMIYTVGYSMSLASLTVAVLILAYFRRLHCTRNYIHMHMFLSFMLRAASIFVKDAVLYSGFTLDEAERLTEEELHIIAQVPPPPAAAAVGYAGCRVAVTFFLYFLATNYYWILVEGLYLHSLIFMAFFSEKKYLWGFTIFGWGLPAVFVAVWVGVRATLANTGCWDLSSGHKKWIIQVPILASVVLNFILFINIIRVLATKLRETNAGRCDTRQQYRKLLRSTLVLVPLFGVHYTVFMALPYTEVSGTLWQIQMHYEMLFNSFQGFFVAIIYCFCNGEVQAEIRKSWSRWTLALDFKRKARSGSSSYSYGPMVSHTSVTNVGPRAGLSLPLSPRLPPATTNGHSQLPGHAKPGAPATETETLPVTMAVPKDDGFLNGSCSGLDEEASGSARPPPLLQEEWETVM |
| 3210 | sp|B1AUH1|PTPRU\_MOUSE | MARAQALVLALTFQFCAPETETPAAGCTFEEASDPVVPCEFSQAQYDDFQWEQVRIHPGTRTPEDLPHGAYLMVNASQHAPGQRAHIIFQTLSENDTHCVQFSYFLYSRDGHSPGTLGVYVRVNGGPLGSAVWNMTGSHGRQWHQAELAVSTFWPNEYQVLFEALISPDHKGYIGLDDILLFSYPCAKAPHFSRLGDVEVNAGQNASFQCMAAGRAAEAEHFFLQRQSGVLVPAAGVRHISHRRFLATFPLASVGRSEQDLYRCVSQAPRGAGVSNFAELIVKEPPTPIAPPQLLRAGPTYLIIQLNTNSIIGDGPIVRKEIEYRMARGPWAEVHAVNLQTYKLWHLDPDTEYEISVLLTRPGDGGTGRPGPPLISRTKCAEPTRAPKGLAFAEIQARQLTLQWEPLGYNVTRCHTYAVSLCYRYTLGGSHNQTIRECVKMERGASRYTIKNLLPFRNIHVRLILTNPEGRKEGKEVTFQTDEDVPGGIAAESLTFTPLEDMIFLKWEEPQEPNGLITQYEISYQSIESSDPAVNVPGPRRTISKLRNETYHVFSNLHPGTTYLFSVRARTSKGFGQAALTEITTNISAPSFDYADMPSPLGESENTITVLLRPAQGRGAPISVYQVVVEEERPRRLRREPGAQDCFSVPLTFETALARGLVHYFGAELAASSLLEAMPFTVGDNQTYRGFWNPPLEPRKAYLIYFQAASHLKGETRLNCIRIARKAACKESKRPLEVSQRSEEMGLILGICAGGLAVLILLLGAIIVIIRKGRDRYAYSYYPKPVNMTKATVNYRQEKTHMMSAVDRSFTDQSTLQEDERLGLSFMDAPGYSPRGDQRSGGVTEASSLLGGSPRRPCGRKGSPYHTGQLHPAVRVADLLQHINQMKTAEGYGFKQEYESFFEGWDATKKKDKLKGGRQEPVSAYDRHHVKLHPMLADPDADYISANYIDGYHRSNHFIATQGPKPEMIYDFWRMVWQEQCASIVMITKLVEVGRVKCSRYWPEDSDMYGDIKITLVKTETLAEYVVRTFALERRGYSARHEVRQFHFTAWPEHGVPYHATGLLAFIRRVKASTPPDAGPIVIHCSAGTGRTGCYIVLDVMLDMAECEGVVDIYNCVKTLCSRRVNMIQTEEQYIFIHDAILEACLCGETTIPVNEFKATYREMIRIDPQSNSSQLREEFQTLNSVTPPLDVEECSIALLPRNRDKNRSMDVLPPDRCLPFLISSDGDPNNYINAALTDSYTRSAAFIVTLHPLQSTTPDFWRLVYDYGCTSIVMLNQLNQSNSAWPCLQYWPEPGRQQYGLMEVEFVSGTANEDLVSRVFRVQNSSRLQEGHLLVRHFQFLRWSAYRDTPDSRKAFLHLLAEVDKWQAESGDGRTVVHCLNGGGRSGTFCACATVLEMIRCHSLVDVFFAAKTLRNYKPNMVETMDQYHFCYDVALEYLEALELR |
| 3211 | sp|Q2TAL8|QRIC1\_HUMAN | MNNSLENTISFEEYIRVKARSVPQHRMKEFLDSLASKGPEALQEFQQTATTTMVYQQGGNCIYTDSTEVAGSLLELACPVTTSVQPQTQQEQQIQVQQPQQVQVQVQVQQSPQQVSAQLSPQLTVHQPTEQPIQVQVQIQGQAPQSAAPSIQTPSLQSPSPSQLQAAQIQVQHVQAAQQIQAAEIPEEHIPHQQIQAQLVAGQSLAGGQQIQIQTVGALSPPPSQQGSPREGERRVGTASVLQPVKKRKVDMPITVSYAISGQPVATVLAIPQGQQQSYVSLRPDLLTVDSAHLYSATGTITSPTGETWTIPVYSAQPRGDPQQQSITHIAIPQEAYNAVHVSGSPTALAAVKLEDDKEKMVGTTSVVKNSHEEVVQTLANSLFPAQFMNGNIHIPVAVQAVAGTYQNTAQTVHIWDPQQQPQQQTPQEQTPPPQQQQQQLQVTCSAQTVQVAEVEPQSQPQPSPELLLPNSLKPEEGLEVWKNWAQTKNAELEKDAQNRLAPIGRRQLLRFQEDLISSAVAELNYGLCLMTREARNGEGEPYDPDVLYYIFLCIQKYLFENGRVDDIFSDLYYVRFTEWLHEVLKDVQPRVTPLGYVLPSHVTEEMLWECKQLGAHSPSTLLTTLMFFNTKYFLLKTVDQHMKLAFSKVLRQTKKNPSNPKDKSTSIRYLKALGIHQTGQKVTDDMYAEQTENPENPLRCPIKLYDFYLFKCPQSVKGRNDTFYLTPEPVVAPNSPIWYSVQPISREQMGQMLTRILVIREIQEAIAVANASTMH |
| 3212 | sp|Q9GPR7|RACH\_DICDI | MVKDIKVMVVGDMSVGKTCLLISYTTNSFPGEYVPTVFDNYNANAIVNNTPINLGLWDTAGSEEYNSFRPLSYPGTDVFIICFSLISQTSFENVIKKWHPEIIQNMEQVPPIILVGTKLDLRGKGKSEEKEVTPEMGEQMRAAIGAYKYSECSALTQDGLTTVFEEAGRVVLFPPSKEELAKSKKDSKKGDKDSKDCIIQ |
| 3213 | sp|P37383|RAD51\_CHICK | MAMQVQFEASTDTSAEEESFGPEPISRLEQCGINANDVKKLEEAGYHTVESVAHAPKKELLNIKGISEAKADKILAEAAKLVPMGFTTATEFHQRRSEIIQITTGSKELDKLLQGGIETGSITELFGEFRTGKTQLCHTLAVTCQLPIDRGGGEGKAMYIDTEGTFRPERLLAVAERYGLSGSDVLDNVAYARGFNTDHQTQLLYQASAMMAESRYALLIVDSATALYRTDYSGRGELSARQMHLARFLRMLLRLADEFGVAVVITNQVVAQVDGAAMFAADPKKPIGGNIIAHASTTRLYLRKGRGETRICKIYDSPCLPEAEAMFAINADGVGDAKE |
| 3214 | sp|Q9NS91|RAD18\_HUMAN | MDSLAESRWPPGLAVMKTIDDLLRCGICFEYFNIAMIIPQCSHNYCSLCIRKFLSYKTQCPTCCVTVTEPDLKNNRILDELVKSLNFARNHLLQFALESPAKSPASSSSKNLAVKVYTPVASRQSLKQGSRLMDNFLIREMSGSTSELLIKENKSKFSPQKEASPAAKTKETRSVEEIAPDPSEAKRPEPPSTSTLKQVTKVDCPVCGVNIPESHINKHLDSCLSREEKKESLRSSVHKRKPLPKTVYNLLSDRDLKKKLKEHGLSIQGNKQQLIKRHQEFVHMYNAQCDALHPKSAAEIVREIENIEKTRMRLEASKLNESVMVFTKDQTEKEIDEIHSKYRKKHKSEFQLLVDQARKGYKKIAGMSQKTVTITKEDESTEKLSSVCMGQEDNMTSVTNHFSQSKLDSPEELEPDREEDSSSCIDIQEVLSSSESDSCNSSSSDIIRDLLEEEEAWEASHKNDLQDTEISPRQNRRTRAAESAEIEPRNKRNRN |
| 3215 | sp|P0C6T5|R1A\_BCHK5 | MSFVAGVAPQGARGKYRAELNTEKRTDHVSLKASLCDAGDLVLKISPWFMDGESAYKHVSEQLSKGSKLLFVPQTLKGFIRHLPGPRVYLVERLTGGTYSDPFMVNQLAYQNAAGEGVIGTTLQGKRVGMFFPFDADLVTGEFQFLLRKKGFGGNRFRDAPWDYNWTPYSDLMDALEADPCGKYSQSLLKKLVGGDFTPIDQYMCGKNGKPIAEFAALMASEGITKLADVEAEVKSRTDSDRYIVFKNKLYRIVWNVQRKDVAYSKQSAFTMNSIVQLDTMEDVPRHSFTIGSEIQVIAPSTAVQANGHLNLKQRLLYAFYGKQAVSEPNYIYHSAYVDCTSCGKGSWLTGNAVQGFACDCGAHYCANDVDLQSSGLVRKNAVLLTTCPCNKDGECKHTLPQLVSMMTDKCDVEVVGKTFILTYGGVIYAYMGCSGGTMHFIPRAKSCVSKIGDAIFTGCTGTWSKVCETANLFLERAQHAINFVNEFVLTETVVALLSGTTSSIEELRDLCRNATFEKVRDYLTPRGWIVTMGSYIEGVINVGAAGVCNAALNAPFIVLSGLGESFKKVAATPWKLCSSLRETLDHYADSITYRVFPYDIPCDVTDYTALLLDCAVLTGASAYFVARYVDEKVEQLTNLVFSSCQSAVAAFVQACMSTYKATAKFISDMFTLIKVVSERLYVYTSVGFVVVGDYSSQLLKQFMHILSKAMQLLHTTVSWAGSKLPSVVYNGRDSLVFPSGTYYCVSTQGRSLQDQFDLVIPGDLSKKQIGILEPTPNSTTVDKKINTNVVEVVVGQLEPTKEHSPELVVGDYVIISNKIFVRSVEDSETVFYPLCTDGKIVPTLFRLKGGAPPKGVKFGGEQTKEITAVRSVSVDYDVHPVLDALLAGSELATFTVEKDLPVKDFVDVVKDEVIELLSKLLRGYNVDGFDLEDFADTPCYVYNAEGDLAWSSTMTFSVNPVEEVEEECDDDYVEDEYLSEEMLVEEDENSWAAAVEAVIPMEDVQLDTLVAEIDVSEPADDVAEQASTEEVEVPSACVLEASQVANAAEVESCEAEVSSSIPLHEDANAAKANDCAEGMPALDSTETVSKLSVDTPVGDVTQDDATSSNATVISEDVHTATHSKGLVAVPEVVPEKALGTSVERMRSTSEWTVVETSLKQETAVIVKNDSSAKPQRVKKPKAENPLKNFKHIVLNNDVTLVFGDAIAVARATEDCILVNAANTHLKHGGGIAAAIDRASGGLVQAESDDYVNFYGPLNVGDSTLLKGHGLATGILHVVGPDARANQDIQLLKRCYKAFNKYPLVVSPLISAGIFCVEPRVSLEYLLSVVHTKTYVVVNSEKVYNDLAAPKPPTGLTYSHEGWRGIIRNAKSFGFTCFICTDQSANAKLLKGRGVDLTKKTQTVDGVKYYLYSSKDPLTDIITAANACKGICAMPIGYVTHGLDLAQAGQQVKKITVPYVCLLASKDQVPILNSDVAVQTPEQSFINTVIANGGYHCWHLVTGELIVKGVSYRKLLNWSDQTICYADNKFYVVKGQIALPFDSLEKCRTYLTSRAAQQKNVDVLVTIDGVNFRTVVLNNTTTYRVQLGSVFYKGSDISDTIPTEKMSGEAVYLADNLSEAEKAVLSEVYGTADTAFLHRYYSLLALVKKWKYTVHDGVKSLKLNSNNCYVNVTMLMLDMLKEIKFIVPALQAAYLKHKGGDSTEFIALIMAYGDCTYGEPDDASRLLHTILSKAELTTQAKMVWRQWCNVCGVQDTTTTGLKACIYVGMNSLDELHATHEECCQCGDVRKRQLVEHNAPWLLLSGLNEAKVMTPTSQSAGPDYTAFNVFQGVETSVGHYLHVRVKDNLLYKYDSGSLSKTSDMKCKMTDVYYPKQRYSADCNVVVYSLDGNTWADVDPDLSAFYMKDGKYFTKKPVIEYSPATILSGSVYTNSCLVGHDGTIGSDAISSSFNNLLGFDNSKPVSKKLTYSFFPDFEGDVILTEYSTYDPIYKNGAMLHGKPILWVNNSKFDSALNKFNRATLRQVYDIAPVTLENKYTVLQDNQIQQVEVEAPKEDAKPQSPVQVAEDIDNKLPIIKCKGLKKPFVKDGYSFVNDPQGVNVIDTLGIDDLRALYVDRNLRLIVLKENNWSALFNIHTVEKGDLSVIAASGSITRRVKILLGASSLFAQFASVTVNVTTAMGKALGRMTRNVITNTGIIGQGFALLKMLLILPFTFWKSKNQSTVKVEVGALRTAGIVTTNVVKQCASAAYDVLVVKFKRIDWKSTLRLLFLICTTGLLLSSLYYLFLFHQVLTSDVMLDGAEGMLATYRELRSYLGIHSLCDGMVEAYRNVSYDVNDFCSNRSALCNWCLIGQDSLTRYSAFQMIQTHVTSYVINIDWVWFVMEFALAYVLYTSTFNVLLLVVSSQYFFSYTGAFVNWRSYNYLVSGYFFCVTHIPLLGLVRIYNFLACLWFLRRFYNHVINGCKDTACLLCYKRNRLTRVEASTVVCGSKRTFYIVANGGTSFCCRHNWNCVDCDTAGIGNTFICEEVANDLTTSLRRLVKPTDKSHYYVESVTVKDSVVQLHYSREGASCYERYPLCYFTNLDKLKFKEVCKTPTGIPEHNFLIYDSSDRGQENLARSACVYYSQVLSKPMLLVDSNMVTTVGDSREIASKMLDSYVNSFISLFGVNRDKLDKLVATARDCVKRGDDFQTVIKTFTDAARGPAGVESDVETSSIVDALQYAYKHDLQLTTEGFNNYVPSYIKPDSVATADLGCLIDLNAASVNQTSIRNANGACIWNSSDYMKLSDSLKRQIRIACRKCNIPFRLTTSRLRSADNILSVKFSATKLSGGAPKWLLKLRDFTWKSYCVVTLVVFAMAVLSYLCLPAFNMSQVSFHEDRILTYKVVENGIIRDITPSDTCFANKYQSFSKWFNEHYGGLFNNDISCPVTVAVIAGVAGARVPNLPANVAWVGRQIVLFVSRVFASSNNVCYTPTAEIPYERFSDSGCVLASECTLFRDAEGKINPYCYDPTVLPGASAYDQMKPHVRYDMYDSDMYIKFPEVVFESTLRITKTLATRYCRFGSCEDANEGVCITTNGSWAIYNDHYANKPGVYCGDNYFDIVRRLGLSLFQPVTYFQLSTSLALGVMLCIFLTIAFYYVNKVKRALADYTQCAVVAVAAALLNSLCLCFVVSNPLLVLPYTALYYYATFYLTGEPAFVMHVSWFVMFGTVVPIWMVFAYIVGVCLRHLLWVMAYFSKKHVEVFTDGKLNCSFQDAAANIFVINKDTYVALRNSITQDSYNRYLSMFNKYKYYSGAMDTASYREASAAHLCKALQVYSETGSDVLFQPPNCSVTSSVLQSGLVKMAAPSGVVENCMVQVTCGSMTLNGLWLDNYVWCPRHVMCPADQLSDPNYDALLVSKTNLSFIVQKNVGAPANLRVVGHTMVGTLLKLTVESANPQTPAYTFTTVKPGASFSVLACYNGRPTGVFMVNMRQNSTIKGSFLCGSCGSVGYTQEGNVINFCYMHQMELSNGTHTGCAFDGVMYGAFEDRQVHQVQLSDKYCTINIVAWLYAAILNGCNWFVKPNKTGIATFNEWAMSNQFTEFIGTQSVDMLAHKTGVSVEQLLYAIQTLHKGFQGKTILGNSMLEDEFTPDDVNMQVMGVVMQSGVKRISYGLVHWLFTTLLLAYVATLQLTKFTIWNYLFEVIPLQLTPLVLCVMACVMLTVKHKHTFLTLFLLPTAICLTYANIVYEPQTPVSSALIAVANWLNPASVYMRTTHTDLGVYLSLCFALAVVVRRLYRPNASNLALALGSAMVWFYTYTTGDCSSPLTYLMFLTTLTSDYTVTVFLAVNVAKFFARVVFLYAPHAGFIFPEVKLVLLMYLAVGYFCTVYFGVFSLLNLKLRVPLGVYDYTVSTQEFRYLTGNGLHAPRNSWEALRLNMKLIGIGGTPCIKIASVQSKLTDLKCTSVVLLSVLQQLHLEANSKAWAHCVKLHNDILAATDPTEAFDNFVCLFATLMSFSANVDLEALASDLLDHPSVLQATLSEFSHLASYAELEAAQSSYQKALNSGDASPQVLKALQKAVNIAKNAYEKDKAVARKLERMAEQAMTSMYKQARAEDKKAKIVSAMQTMLFGMIKKLDNDVLNGVISNARNGCVPLSVVPLCASNKLRVVIPDITIWNKVVTWPSLSYAGALWDISLINNVDGEVVKSSDVTETNESLTWPLVLECTRAASSAVTLQNNEIRPSGLKTMVVSAGIDHANCNTSSLAYYEPVEGRKMLMGILSENAHLKWAKVEGRDGFVNIELQPPCKFLIAGPKGPEVRYLYFVKNLNNLHRGQLLGHIAATVRLQAGSNTEFAINSSVLSAVTFSVDPGKAYLDFVNAGGAPLTNCVKMLTPKTGTGIAVSVKPEANADQDTYGGASVCLYCRAHIEHPDVTGVCKFKGKFVQVPLHIRDPVGFCLQNTPCNVCQFWIGHGCNCDALRGTTIPQSKDSNFLNESGVLL |
| 3216 | sp|Q9ULW5|RAB26\_HUMAN | MSRKKTPKSKGASTPAASTLPTANGARPARSGTALSGPDAPPNGPLQPGRPSLGGGVDFYDVAFKVMLVGDSGVGKTCLLVRFKDGAFLAGTFISTVGIDFRNKVLDVDGVKVKLQMWDTAGQERFRSVTHAYYRDAHALLLLYDVTNKASFDNIQAWLTEIHEYAQHDVALMLLGNKVDSAHERVVKREDGEKLAKEYGLPFMETSAKTGLNVDLAFTAIAKELKQRSMKAPSEPRFRLHDYVKREGRGASCCRP |
| 3217 | sp|Q9DD03|RAB13\_MOUSE | MAKAYDHLFKLLLIGDSGVGKTCLIIRFAEDNFNSTYISTIGIDFKIRTVDIEGKRIKLQVWDTAGQERFKTITTAYYRGAMGIILVYDITDEKSFENIQNWMKSIKENASAGVERLLLGNKCDMEAKRQVQREQAEKLAREHRIRFFETSAKSSVNVDEAFSSLARDILLKTGGRRSGTNSKPSSTGLKTSDKKKNKCLLG |
| 3218 | sp|Q9Y620|RA54B\_HUMAN | MRRSAAPSQLQGNSFKKPKFIPPGRSNPGLNEEITKLNPDIKLFEGVAINNTFLPSQNDLRICSLNLPSEESTREINNRDNCSGKYCFEAPTLATLDPPHTVHSAPKEVAVSKEQEEKSDSLVKYFSVVWCKPSKKKHKKWEGDAVLIVKGKSFILKNLEGKDIGRGIGYKFKELEKIEEGQTLMICGKEIEVMGVISPDDFSSGRCFQLGGGSTAISHSSQVARKCFSNPFKSVCKPSSKENRQNDFQNCKPRHDPYTPNSLVMPRPDKNHQWVFNKNCFPLVDVVIDPYLVYHLRPHQKEGIIFLYECVMGMRMNGRCGAILADEMGLGKTLQCISLIWTLQCQGPYGGKPVIKKTLIVTPGSLVNNWKKEFQKWLGSERIKIFTVDQDHKVEEFIKSIFYSVLIISYEMLLRSLDQIKNIKFDLLICDEGHRLKNSAIKTTTALISLSCEKRIILTGTPIQNDLQEFFALIDFVNPGILGSLSSYRKIYEEPIILSREPSASEEEKELGERRAAELTCLTGLFILRRTQEIINKYLPPKIENVVFCRPGALQIELYRKLLNSQVVRFCLQGLLENSPHLICIGALKKLCNHPCLLFNSIKEKECSSTCDKNEEKSLYKGLLSVFPADYNPLLFTEKESGKLQVLSKLLAVIHELRPTEKVVLVSNYTQTLNILQEVCKRHGYAYTRLDGQTPISQRQQIVDGFNSQHSSFFIFLLSSKAGGVGLNLIGGSHLILYDIDWNPATDIQAMSRVWRDGQKYPVHIYRLLTTGTIEEKIYQRQISKQGLCGAVVDLTKTSEHIQFSVEELKNLFTLHESSDCVTHDLLDCECTGEEVHTGDSLEKFIVSRDCQLGPHHQKSNSLKPLSMSQLKQWKHFSGDHLNLTDPFLERITENVSFIFQNITTQATGT |
| 3219 | sp|P0C6Y4|R1AB\_PEDV7 | MASNHVTLAFANDAEISAFGFCTASEAVSYYSEAAASGFMQCRFVSLDLADTVEGLLPEDYVMVVIGTTKLSAYVDTFGSRPRNICGWLLFSNCNYFLEELELTFGRRGGNIVPVDQYMCGADGKPVLQESEWEYTDFFADSEDGQLNIAGITYVKAWIVERSDVSYASQNLTSIKSITYCSTYEHTFLDGTAMKVARTPKIKKNVVLSEPLATIYREIGSPFVDNGSDARSIIRRPVFLHAFVKCKCGSYHWTVGDWTSYVSTCCGFKCKPVLVASCSAMPGSVVVTRAGAGTGVKYYNNMFLRHVADIDGLAFWRILKVQSKDDLACSGKFLEHHEEGFTDPCYFLNDSSLATKLKFDILSGKFSDEVKQAIIAGHVVVGSALVDIVDDALGQPWFIRKLGDLASAPWEQLKAVVRGLGLLSDEVVLFGKRLSCATLSIVNGVFEFLADVPEKLAAAVTVFVNFLNEFFESACDCLKVGGKTFNKVGSYVLFDNALVKLVKAKARGPRQAGICEVRYTSLVVGSTTKVVSKRVENANVNLVVVDEDVTLNTTGRTVVVDGLAFFESDGFYRHLADADVVIEHPVYKSACELKPVFECDPIPDFPLPVAASVAELCVQTDLLLKNYNTPYKTYSCVVRGDKCCITCTLQFKAPSYVEDAVNFVDLCTKNIGTAGFHEFYITAHEQQDLQGFLTTCCTMSGFECFMPTIPQCPAVLEEIDGGSIWRSFITGLNTMWDFCKRLKVSFGLDGIVVTVARKFKRLGALLAEMYNTYLSTVVENLVLAGVSFKYYATSVPKIVLGGCFHSVKSVFASVFQIPVQAGIEKFKVFLNCVHPVVPRVIETSFVELEETTFKPPALNGGIAIVDGFAFYYDGTLYYPTDGNSVVPICFKKKGGGDVKFSDEVSVKTIDPVYKVSLEFEFESETIMAVLNKAVGNRIKVTGGWDDVVEYINVAIEVLKDHVEVPKYYIYDEEGGTDPNLPVMVSQWPLNDDTISQDLLDVEVVTDAPIDSEGDEVDSSAPEKVADVANSEPGDDGLPVAPETNVESEVEEVAATLSFIKDTPSTVTKDPFAFDFVSYGGLKVLRQSHNNCWVTSTLVQLQLLGIVDDPAMELFSAGRVGPMVRKCYESQKAILGSLGDVSACLESLTKDLHTLKITCSVVCGCGTGERIYEGCAFRMTPTLEPFPYGACAQCAQVLMHTFKSIVGTGIFCRDTTALSLDSLVVKPLCAAAFIGKDSGHYVTNFYDAAMAIDGYGRHQIKYDTLNTICVKDVNWTAPLVPAVDSVVEPVVKPFYSYKNVDFYQGDFSDLVKLPCDFVVNAANEKLSHGGGIAKAIDVYTKGMLQKCSNDYIKAHGPIKVGRGVMLEALGLKVFNVVGPRKGKHAPELLVKAYKSVFANSGVALTPLISVGIFSVPLEESLSAFLACVGDRHCKCFCYGDKEREAIIKYMDGLVDAIFKEALVDTTPVQEDVQQVSQKPVLPNFEPFRIEGAHAFYECNPEGLMSLGADKLVLFTNSNLDFCSVGKCLNDVTSGALLEAINVFKKSNKTVPAGNCVTLDCANMISITMVVLPFDGDANYDKNYARAVVKVSKLKGKLVLAVDDATLYSKLSHLSVLGFVSTPDDVERFYANKSVVIKVTEDTRSVKAVKVESTATYGQQIGPCLVNDTVVTDNKPVVADVVAKVVPNANWDSHYGFDKAGEFHMLDHTGFTFPSEVVNGRRVIKTTDNNCWVNVTCLQLQFARFRFKSAGLQAMWESYCTGDVAMFVHWLYWLTGVDKGQPSDSENALNMLSKYIVPAGSVTIERVTHDGCCCSKRVVTAPVVNASVLKLGVEDGLCPHGLNYIGKVVVVKGTTIVVNVGKPVVAPSHLFLKGVSYTTFLDNGNGVVGHYTVFDHGTGMVHDGDAFVPGDLNVSPVTNVVVSEQTAVVIKDPVKKAELDATKLLDTMNYASERFFSFGDFMSRNLITVFLYILSILGLCFRAFRKRDVKVLAGVPQRTGIILRKSMRYNAKALGVFFKLKLYWFKVLGKFSLGIYALYALLFMTIRFTPIGSPVCDDVVAGYANSSFDKNEYCNSVICKVCLYGYQELSDFSHTQVVWQHLRDPLIGNVMPFFYLAFLAIFGGVYVKAITLYFIFQYLNSLGVFLGLQQSIWFLQLVPFDVFGDEIVVFFIVTRVLMFIKHVCLGCDKASCVACSKSARLKRVPVQTIFQGTSKSFYVHANGGSKFCKKHNFFCLNCDSYGPGCTFINDVIATEVGNVVKLNVQPTGPATILIDKVEFSNGFYYLYSGDTFWKYNFDITDSKYTCKEALKNCSIITDFIVFNNNGSNVNQVKNACVYFSQMLCKPVKLVDSALLASLSVDFGASLHSAFVSVLSNSFGKDLSSCNDMQDCKSTLGFDDVPLDTFNAAVAEAHRYDVLLTDMSFNNFTTSYAKPEEKFPVHDIATCMRVGAKIVNHNVLVKDSIPVVWLVRDFIALSEETRKYIIRTTKVKGITFMLTFNDCRMHTTIPTVCIANKKGAGLPSFSKVKKFFWFLCLFIVAAFFALSFLDFSTQVSSDSDYDFKYIESGQLKTFDNPLSCVHNVFINFDQWHDAKFGFTPVNNPSCPIVVGVSDEARTVPGIPAGVYLAGKTLVFAINTIFGTSGLCFDASGVADKGACIFNSACTTLSGLGGTAVYCYKNGLVEGAKLYSELAPHSYYKMVDGNAVSLPEIISRGFGIRTIRTKAMTYCRVGQCVQSAEGVCFGADRFFVYNAESGSDFVCGTGLFTLLMNVISVFSKTVPVTVLSGQILFNCIIAFVAVAVCFLFTKFKRMFGDMSVGVFTVGACTLLNNVSYIVTQNTLGMLGYATLYFLCTKGVRYMWIWHLGFLISYILIAPWWVLMVYAFSAIFEFMPNLFKLKVSTQLFEGDKFVGSFENAAAGTFVLDMHAYERLANSISTEKLRQYASTYNKYKYYSGSASEADYRLACFAHLAKAMMDYASNHNDTLYTPPTVSYNSTLQAGLRKMAQPSGVVEKCIVRVCYGNMALNGLWLGDIVMCPRHVIASSTTSTIDYDYALSVLRLHNFSISSGNVFLGVVSATMRGALLQIKVNQNNVHTPKYTYRTVRPGESFNILACYDGAAAGVYGVNMRSNYTIRGSFINGACGSPGYNINNGTVEFCYLHQLELGSGCHVGSDLDGVMYGGYEDQPTLQVEGASSLFTENVLAFLYAALINGSTWWLSSSRIAVDRFNEWAVHNGMTTVGNTDCFSILAAKTGVDVQRLLASIQSLHKNFGGKQILGHTSLTDEFTTGEVVRQMYGVNLQGGYVSRACRNVLLVGSFLTFFWSELVSYTKFFWVNPGYVTPMFACLSLLSSLLMFTLKHKTLFFQVFLIPALIVTSCINLAFDVEVYNYLAEHFDYHVSLMGFNAQGLVNIFVCFVVTILHGTYTWRFFNTPASSVTYVVALLTAAYNYFYASDILSCAMTLFASVTGNWFVGAVCYKVAVYMALRFPTFVAIFGDIKSVMFCYLVLGYFTCCFYGILYWFNRFFKVSVGVYDYTVSAAEFKYMVANGLRAPTGTLDSLLLSAKLIGIGGERNIKISSVQSKLTDIKCSNVVLLGCLSSMNVSANSTEWAYCVDLHNKINLCNDPEKAQEMLLALLAFFLSKNSAFGLDDLLESYFNDNSMLQSVASTYVGLPSYVIYENARQQYEDAVNNGSPPQLVKQLRHAMNVAKSEFDREASTQRKLDRMAEQAAAQMYKEARAVNRKSKVVSAMHSLLFGMLRRLDMSSVDTILNLAKDGVVPLSVIPAVSATKLNIVTSDIDSYNRIQREGCVHYAGTIWNIIDIKDNDGKVVHVKEVTAQNAESLSWPLVLGCERIVKLQNNEIIPGKLKQRSIKAEGDGIVGEGKALYNNEGGRTFMYAFISDKPDLRVVKWEFDGGCNTIELEPPRKFLVDSPNGAQIKYLYFVRNLNTLRRGAVLGYIGATVRLQAGKQTEQAINSSLLTLCAFAVDPAKTYIDAVKSGHKPVGNCVKMLANGSGNGQAVTNGVEASTNQDSYGGASVCLYCRAHVEHPSMDGFCRLKGKYVQVPLGTVDPIRFVLENDVCKVCGCWLSNGCTCDRSIMQSTDMAYLNRVRGSSAARLEPCNGTDTQHVYRAFDIYNKDVACLGKFLKVNCVRLKNLDKHDAFYVVKRCTKSAMEHEQSIYSRLEKCGAIAEHDFFTWKDGRAIYGNVCRKDLTEYTMMDLCYALRNFDENNCDVLKSILIKVGACEESYFNNKVWFDPVENEDIHRVYALLGTIVARAMLKCVKFCDAMVEQGIVGVVTLDNQDLNGDFYDFGDFTCSIKGMGVPICTSYYSYMMPVMGMTNCLASECFVKSDIFGEDFKSYDLLEYDFTEHKTALFNKYFKYWGLQYHPNCVDCSDEQCIVHCANFNTLFSTTIPITAFGPLCRKCWIDGVPLVTTAGYHFKQLGIVWNNDLNLHSSRLSINELLQFCSDPALLIASSPALVDQRTVCFSVAALGTGMTNQTVKPGHFNKEFYDFLLEQGFFSEGSELTLKHFFFAQKVDAAVKDFDYYRYNRPTVLDICQARVVYQIVQRYFDIYEGGCITAKEVVVTNLNKSAGYPLNKFGKAGLYYESLSYEEQDELYAYTKRNILPTMTQLNLKYAISGKERARTVGGVSLLSTMTTRQYHQKHLKSIVNTRGASVVIGTTKFYGGWDNMLKNLIDGVENPCLMGWDYPKCDRALPNMIRMISAMILGSKHTTCCSSTDRFFRLCNELAQVLTEVVYSNGGFYLKPGGTTSGDATTAYANSVFNIFQAVSANVNKLLSVDSNVCHNLEVKQLQRKLYECCYRSTIVDDQFVVEYYGYLRKHFSMMILSDDGVVCYNNDYASLGYVADLNAFKAVLYYQNNVFMSASKCWIEPDINKGPHEFCSQHTMQIVDKEGTYYLPYPDPSRILSAGVFVDDVVKTDAVVLLERYVSLAIDAYPLSKHENPEYKKVFYVLLDWVKHLYKTLNAGVLESFSVTLLEDSTAKFWDESFYANMYEKSAVLQSAGLCVVCGSQTVLRCGDCLRRPMLCTKCAYDHVIGTTHKFILAITPYVCCASDCGVNDVTKLYLGGLSYWCHEHKPRLAFPLCSAGNVFGLYKNSATGSPDVEDFNRIATSDWTDVSDYRLANDVKDSLRLFAAETIKAKEESVKSSYACATLHEVVGPKELLLKWEVGRPKPPLNRNSVFTCYHITKNTKFQIGEFVFEKAEYDNDAVTYKTTATTKLVPGMVFVLTSHNVQPLRAPTIANQERYSTIHKLHPAFNIPEAYSSLVPYYQLIGKQKITTIQGPPGSGKSHCVIGLGLYYPGARIVFTACSHAAVDSLCVKASTAYSNDKCSRIIPQRARVECYDGFKSNNTSAQYLFSTVNALPECNADIVVVDEVSMCTNYDLSVINQRISYRHVVYVGDPQQLPAPRVMISRGTLEPKDYNVVTQRMCALKPDVFLHKCYRCPAEIVRTVSEMVYENQFIPVHPDSKQCFKIFCKGNVQVDNGSSINRRQLDVVRMFLAKNPRWSKAVFISPYNSQNYVASRLLGLQIQTVDSSQGSEYDYVIYAQTSDTAHASNVNRFNVAITRAKKGILCIMCDRSLFDLLKFFELKLSDLQANEGCGLFKDCSRGDDLLPPSHANTFMSLADNFKTDQYLAVQIGVNGPIKYEHVISFMGFRFDINIPNHHTLFCTRDFAMRNVRGWLGFDVEGAHVVGSNVGTNVPLQLGFSNGVDFVVRPEGCVVTESGDYIKPVRARAPPGEQFAHLLPLLKRGQPWDVVRKRIVQMCSDYLANLSDILIFVLWAGGLELTTMRYFVKIGPSKSCDCGKVATCYNSALHTYCCFKHALGCDYLYNPYCIDIQQWGYKGSLSLNHHEHCNVHRNEHVASGDAIMTRCLAIHDCFVKNVDWSITYPFIGNEAVINKSGRIVQSHTMRSVLKLYNPKAIYDIGNPKGIRCAVTDAKWFCFDKNPTNSNVKTLEYDYITHGQFDGLCLFWNCNVDMYPEFSVVCRFDTRCRSPLNLEGCNGGSLYVNNHAFHTPAFDKRAFAKLKPMPFFFYDDTECDKLQDSINYVPLRASNCITKCNVGGAVCSKHCAMYHSYVNAYNTFTSAGFTIWVPTSFDTYNLWQTFSNNLQGLENIAFNVLKKGSFVGDEGELPVAVVNDKVLVRDGTVDTLVFTNKTSLPTNVAFELYAKRKVGLTPPITILRNLGVVCTSKCVIWDYEAERPLTTFTKDVCKYTDFEGDVCTLFDNSIVGSLERFSMTQNAVLMSLTAVKKLTGIKLTYGYLNGVPVNTHEDKPFTWYIYTRKNGKFEDYPDGYFTQGRTTADFSPRSDMEKDFLSMDMGLFINKYGLEDYGFEHVVYGDVSKTTLGGLHLLISQVRLACMGVLKIDEFVSSNDSTLKSCTVTYADNPSSKMVCTYMDLLLDDFVSILKSLDLSVVSKVHEVMVDCKMWRWMLWCKDHKLQTFYPQLQASEWKCGYSMPSIYKIQRMCLEPCNLYNYGAGVKLPDGIMFNVVKYTQLCQYLNSTTMCVPHHMRVLHLGAGSDKGVAPGTAVLRRWLPLDAIIVDNDSVDYVSDADYSVTGDCSTLYLSDKFDLVISDMYDGKIKSCDGENVSKEGFFPYINGVITEKLALGGTVAIKVTEFSWNKKLYELIQKFEYWTMFCTSVNTSSSEAFLIGVHYLGDFASGAVIDGNTMHANYIFWRNSTIMTMSYNSVLDLSKFNCKHKATVVVNLKDSSISDVVLGLLKNGKLLVRNNDAICGFSNHLVNVNK |
| 3220 | sp|P0C6T6|R1A\_BCHK9 | MEGVPDPPKLKSMVVTTLKWCDPFANPNVTGWDIPIEEALEYAKQQLRTPEPQLVFVPYYLSHAPGISGDRVVITDSIWYATNFGWQPIRELAMDKDGVRYGRGGTHGVLLPMQDPSFIMGDIDIQIRKYGIGANSPPDVLPLWDGFSDPGPDVGPYLDFPDNCCPTKPKAKRGGDVYLSDQYGFDNNGILVEPVMKLLGVIKSDFTLEQLLAALGKYRTEDGYDLPDGYVKVAIKVGRKAVPVLKQSIFTVVGVTEQLVPGYYYPFSTSSVVEHTKPTRGGPVGKTVEAVMLSLYGTNNYNPATPVARLKCSYCDYYGWTPLKDIGTVNCLCGAEFQLTSSCVDAESAGVIKPGCVMLLDKSPGMRLIPGNRTYVSFGGAIWSPIGKVNGVTVWVPRAYSIVAGEHSGAVGSGDTVAINKELVEYLIEGIRVDADTLDNPTCATFIANLDCDTKAPVVHTVESLQGLCLANKIMLGDKPLPTDEFHPFIVGLAYHVQRACWYGALASRTFEAFRDFVRTEEERFAQFFGKVCAPINGCVYLAYTTGRVTLFSAYQVLNTAIAKSKDAFGGVAAIVVDMLKPILEWVLKKMSIAKGAWLPYAEGLLALFKAQFTVVKGKFQFLRASLNSKCHSLCDLLTTIMSKLLTSVKWAGCKVDALYTGTYYYFSRKGVLTEVQLCAKRLGLLLTPKQQKMEVEVLDGDFDAPVTLTDLELEECTGVLEEVFGASDVKLVKGTLVSLASKLFVRTEDGFLYRYVKSGGVLGKAFRLRGGGVSKVTFGDEEVHTIPNTVTVNFSYDVCEGLDAILDKVMAPFQVEEGTKLEDLACVVQKAVYERLSDLFSDCPAELRPINLEDFLTSECFVYSKDYEKILMPEMYFSLEDAVPVDDEMVDDIEDTVEQASDSDDQWLGDEGAEDCDNTIQDVDVATSMTTPCGYTKIAEHVYIKCADIVQEARNYSYAVLVNAANVNLHHGGGVAGALNRATNNAMQKESSEYIKANGSLQPGGHVLLSSHGLASHGILHVVGPDKRLGQDLALLDAVYAAYTGFDSVLTPLVSAGIFGFTVEESLCSLVKNVACTTYVVVYDRQLYERALATSFDVPGPQSSVQHVPAIDWAEAVEVQESIVDQVETPSLGAVDTVDSNADSGLNETARSPENVVGSVPDDVVADVESCVRDLVRQVVKKVKRDKRPPPIVPQQTVEQQPQEISSPGDCNTVLVDVVSMSFSAMVNFGKEKGLLIPVVIDYPAFLKVLKRFSPKEGLFSSNGYEFYGYSRDKPLHEVSKDLNSLGRPLIMIPFGFIVNGQTLAVSAVSMRGLTVPHTVVVPSESSVPLYRAYFNGVFSGDTTAVQDFVVDILLNGARDWDVLQTTCTVDRKVYKTICKRGNTYLCFDDTNLYAITGDVVLKFATVSKARAYLETKLCAPEPLIKVLTTVDGINYSTVLVSTAQSYRAQIGTVFCDGHDWSNKNPMPTDEGTHLYKQDNFSSAEVTAIREYYGVDDSNIIARAMSIRKTVQTWPYTVVDGRVLLAQRDSNCYLNVAISLLQDIDVSFSTPWVCRAYDALKGGNPLPMAEVLIALGKATPGVSDDAHMVLSAVLNHGTVTARRVMQTVCEHCGVSQMVFTGTDACTFYGSVVLDDLYAPVSVVCQCGRPAIRYVSEQKSPWLLMSCTPTQVPLDTSGIWKTAIVFRGPVTAGHYMYAVNGTLISVYDANTRRRTSDLKLPATDILYGPTSFTSDSKVETYYLDGVKRTTIDPDFSKYVKRGDYYFTTAPIEVVAAPKLVTSYDGFYLSSCQNPQLAESFNKAINATKTGPMKLLTMYPNVAGDVVAISDDNVVAHPYGSLHMGKPVLFVTRPNTWKKLVPLLSTVVVNTPNTYDVLAVDPLPVNNETSEEPISVKAPIPLYGLKATMVLNGTTYVPGNKGHLLCLKEFTLTDLQTFYVEGVQPFVLLKASHLSKVLGLRVSDSSLHVNHLSKGVVYAYAATRLTTRVTTSLLGGLVTRSVRKTADFVRSTNPGSKCVGLLCLFYQLFMRFWLLVKKPPIVKVSGIIAYNTGCGVTTCVLNYLRSRCGNISWSRLLKLLRYMLYIWFVWTCLTICGVWLSEPYAPSLVTRFKYFLGIVMPCDYVLVNETGTGWLHHLCMAGMDSLDYPALRMQQHRYGSPYNYTYILMLLEAFFAYLLYTPALPIVGILAVLHLIVLYLPIPLGNSWLVVFLYYIIRLVPFTSMLRMYIVIAFLWLCYKGFLHVRYGCNNVACLMCYKKNVAKRIECSTVVNGVKRMFYVNANGGTHFCTKHNWNCVSCDTYTVDSTFICRQVALDLSAQFKRPIIHTDEAYYEVTSVEVRNGYVYCYFESDGQRSYERFPMDAFTNVSKLHYSELKGAAPAFNVLVFDATNRIEENAVKTAAIYYAQLACKPILLVDKRMVGVVGDDATIARAMFEAYAQNYLLKYSIAMDKVKHLYSTALQQISSGMTVESVLKVFVGSTRAEAKDLESDVDTNDLVSCIRLCHQEGWEWTTDSWNNLVPTYIKQDTLSTLEVGQFMTANAKYVNANIAKGAAVNLIWRYADFIKLSESMRRQLKVAARKTGLNLLVTTSSLKADVPCMVTPFKIIGGHRRIVSWRRVLIHVFMLLVVLNPQWFTPWYIMRPIEYNVVDFKVIDNAVIRDITSADQCFANKFSAFENWYSNRYGSYVNSRGCPMVVGVVSDIVGSLVPGLPARFLRVGTTLLPLVNYGLGAVGSVCYTPHYAINYDVFDTSACVLAATCTLFSSASGERMPYCADAALIQNASRYDMLKPHVMYPFYEHSGYIRFPEVISAGVHIVRTMAMEYCKVGRCDVSEAGLCMSLQPRWVVNNAYFRQQSGVYCGTSAFDLFMNMLLPIFTPVGAVDITTSILMGALLAVVVSMSLYYLLRFRRAFGDYSGVIFTNILAFVLNVIVLCLEGPYPMLPSIYAMVFLYATCYFGSDIACMMHVSFLIMFAGVVPLWVTVLYIVVVLSRHILWFASLCTKRTVQVGDLAFHSFQDAALQTFMLDKEVFLRLKREISSDAYFKYLAMYNKYKYYSGPMDTAAYREAACSHLVMALEKYSNGGGDTIYQPPRCSVASAALQAGLTRMAHPSGLVEPCLVKVNYGSMTLNGIWLDNFVICPRHVMCSRDELANPDYPRLSMRAANYDFHVSQNGHNIRVIGHTMEGSLLKLTVDVNNPKTPAYSFIRVSTGQAMSLLACYDGLPTGVYTCTLRSNGTMRASFLCGSCGSPGFVMNGKEVQFCYLHQLELPNGTHTGTDFSGVFYGPFEDKQVPQLAAPDCTITVNVLAWLYAAVLSGENWFLTKSSISPAEFNNCAVKYMCQSVTSESLQVLQPLAAKTGISVERMLSALKVLLSAGFCGRTIMGSCSLEDEHTPYDIGRQMLGVKLQGKFQSMFRWTLQWFAIIFVLTILILLQLAQWTFVGALPFTLLLPLIGFVAVCVGFVSLLIKHKHTYLTVYLLPVAMVTAYYNFQYTPEGVQGYLLSLYNYVNPGRIDVIGTDLLTMLIISVACTLLSVRMVRTDAYSRIWYVCTAVGWLYNCWTGSADTVAISYLTFMVSVFTNYTGVACASLYAAQFMVWVLKFLDPTILLLYGRFRCVLVCYLLVGYLCTCYFGVFNLINRLFRCTLGNYEYVVSSQELRYMNSHGLLPPTNSWQALMLNIKLAGIGGIPIYRVSTIQSNMTDLKCTSVVLLSVLQQLRVESSSKLWALCVKLHNEILASNSPTEAFEAFVSLLSVLLSLPGAINLDELCSSILENNSVLQAVASEFSNLSSYVDYENAQKAYDTAVATGAPASTVNALKKAMNVAKSVLDKDVATTRKLERMSELAMTAMYKQARAEDRRSKVTAAMQTMLFNMIRRLDSDALSNILNNARNGVVPLGVIPRTAANKLLLVVPDFSVYTATITMPTLTYAGSAWDVMQVADADGKTVNATDITRENSVNLAWPLVVTAQRQQATSPVKLQNNELMPQTVKRMNVVAGVSQTACVTDAVAYYNATKEGRHVMAILADTDGLAFAKVEKSTGDGFVILELEPPCKFMVDTPKGPALKYLYFTKGLKNLCRGTVLGTLACTVRLHAGSATEVASNSSILSLCSFSVDPEATYKDYLDNGGSPIGNCVKMLTPHTGTGLAITAKPDANIDQESFGGASCCLYCRCHIEHPGASGVCKYKGKFVQIPLVGVNDPIGFCIRNVVCAVCNMWQGYGCPCSSLREINLQARDECFLNESGVLVE |
| 3221 | sp|P35282|RAB21\_MOUSE | MAAAGGGAAAAAGRAYSFKVVLLGEGCVGKTSLVLRYCENKFNDKHITTLQASFLTKKLNIGGKRVNLAIWDTAGQERFHALGPIYYRDSNGAILVYDVTDEDSFQKVKNWVKELRKMLGNEICLCIVGNKIDLEKERHVSIQEAESYAESVGAKHYHTSAKQNKGIEELFLDLCKRMIETAQVDERAKGNGSSQAGAARRGVQIIDDEPQAQSSGGCCSSG |
| 3222 | sp|O95716|RAB3D\_HUMAN | MASAGDTQAGPRDAADQNFDYMFKLLLIGNSSVGKTSFLFRYADDSFTPAFVSTVGIDFKVKTVYRHDKRIKLQIWDTAGQERYRTITTAYYRGAMGFLLMYDIANQESFAAVQDWATQIKTYSWDNAQVILVGNKCDLEDERVVPAEDGRRLADDLGFEFFEASAKENINVKQVFERLVDVICEKMNESLEPSSSSGSNGKGPAVGDAPAPQPSSCSC |
| 3223 | sp|Q9ET01|PYGL\_MOUSE | MAKPLTDQEKRRQISIRGIVGVENVAELKKGFNRHLHFTLVKDRNVATPRDYYFALAHTVRDHLVGRWIRTQQHYYDKCPKRVYYLSLEFYMGRTLQNTMINLGLQNACDEAIYQLGLDMEELEEIEEDAGLGNGGLGRLAACFLDSMATLGLAAYGYGIRYEYGIFNQKIREGWQVEEADDWLRHGNPWEKARPEFMLPVHFYGRVEHTQTGTKWVDTQVVLALPYDTPVPGYMNNTVNTMRLWSARAPNDFNLQDFNVGDYIQAVLDRNLAENISRVLYPNDNFFEGKELRLKQEYFVVAATLQDVIRRFKASKFGSKDGMGTVFDAFPDQVAIQLNDTHPALAIPELMRIFVDIEKLPWAKAWEITKKTFAYTNHTVLPEALERWPVELVEKLLPRHLEIIYEINQKHLDRIVALFPKDISRMRRMSLIEEEGGKRINMAHLCIVGCHAVNGVAKIHSDIVKTQVFKDFSELEPDKFQNKTNGITPRRWLLLCNPGLADLIAEKIGEDYVKDLSQLTKLHSFVSDDIFLREIAKVKQENKLKFSQFLEKEYKVKINPSSMFDVHVKRIHEYKRQLLNCLHVITMYNRIKKDPKKFFVPRTVIIGGKAAPGYHMAKMIIKLITSVAEVVNNDPMVGSKLKVIFLENYRVSLAEKVIPATDLSEQISTAGTEASGTGNMKFMLNGALTIGTMDGANVEMAEEAGEENLFIFGMRVDDVAALDKKGYEAKEYYEALPELKLVIDQIDNGFFSPNQPDLFKDIINMLFYHDRFKVFADYEAYVKCQEKVSQLYMNQKAWNTMVLKNIAASGKFSSDRTIKEYAKDIWNMEPSDLKISLSNESSNGVSANGK |
| 3224 | sp|Q9H902|REEP1\_HUMAN | MVSWIISRLVVLIFGTLYPAYYSYKAVKSKDIKEYVKWMMYWIIFALFTTAETFTDIFLCWFPFYYELKIAFVAWLLSPYTKGSSLLYRKFVHPTLSSKEKEIDDCLVQAKDRSYDALVHFGKRGLNVAATAAVMAASKGQGALSERLRSFSMQDLTTIRGDGAPAPSGPPPPGSGRASGKHGQPKMSRSASESASSSGTA |
| 3225 | sp|Q8H1D6|RBK1\_ARATH | MAVEDNKNSESKNHQEVELHRNDLGLEDSSSPRGVLGMVSDSDNSSSSCSSCSSDDKSSSTSSPFSNTTKTVSSSHHGLQWNKMIESIKKKSMRRFSVIPLLASYELTRKNLRRKQPKLTPSESAFTCEAFFMAKPSWRNFTYEELAVATDYFNPENMIGKGGHAEVYKGVLINGETVAIKKLMSHAKEEEERVSDFLSELGIIAHVNHPNAARLRGFSSDRGLHFVLEYAPYGSLASMLFGSEECLEWKIRYKVALGIADGLSYLHNACPRRIIHRDIKASNILLNHDYEAQISDFGLAKWLPENWPHHVVFPIEGTFGYLAPEYFMHGIVDEKIDVFAFGVLLLEIITSRRAVDTASRQSIVAWAKPFLEKNSMEDIVDPRLGNMFNPTEMQRVMLTASMCVHHIAAMRPDMTRLVQLLRGEDGPAELQQKAGERTMSVNACDLQDHTSSSYLNELRRHRQLLME |
| 3226 | sp|Q9Z0J1|RECK\_MOUSE | MASVRASPRSALLLLLAAAGVAEVTGGLAPGSAGAVCCNHSKDNQMCRDVCEQIFSSKSESRLKHLLQRAPDYCPETMVEIWSCMNSSLPGVFKKSDGWVGLGCCELAIGLECRQACKQASSKNDISKVCRKEYENALFSCISRNEMGSVCCSYAGHHTNCREFCQAIFRTDSSPGPSQIKAVENYCASISPQLIHCVNNYTQSYPMRNPTDSLYCCDRAEDHACQNACKRILMSKKTEMEIVDGLIEGCKTQPLPQDPLWQCFLESSQSVHPGVTVHPPPSTGLDGAKLHCCSKANTSTCRELCTKLYSMSWGNTQSWQEFDRICEYNPVEVSMLTCLADVREPCQLGCTNLTYCTNFNNRPTELFRSCTAQSDQGAMSDMKLWEKGSIKMPFISIPVLDIKTCQPEMWKAVACSLQIKPCHSKSRGSIICKSDCVEILKKCGDQNKFPEEHTAESICEFLSPADDLESCIPLDTYLRPSALGNIIEEVTHPCNPNPCPANELCEVNRKGCPSADPCLPYSCVQGCKLGEASDFIVRQGTLIQVPSSAGEVGCYKICSCGQSGLLENCMEMHCIDLQKSCIVGGKRKSHGTSFTIDCNVCSCFAGNLVCSTRLCLSEHSSDDDRRTFTGLPCNCADQFVPVCAQNGRTYPSACIARCVGLQDHQFEFGPCISKNPCNPNLCPKSQRCVPKPQVCLTTFDKFGCSQYECVPRQLTCDQARDPVCDTDHMEHSNLCTLYQRGKSLSYRGPCQPFCRAKEPVCGHNGETYSSVCAAYSDRVAVDYYGPCQAVGVLSEYSAVAECAAVKCPSLSAIGCKPIIPPGACCPLCAGMLRVLFDKEKLDTIAKVTSKKPITVVEILQKVRMHVSVPQCDVFGYLSIESEIVILIIPVDHYPKALQIEACNKEAEKIESLINSDSPTLASHVPLSALIISQVQVSSSLPSSAVVGRPLFHSLLLLLSLGLTVHLLWTRP |
| 3227 | sp|Q59E36|RCOR\_DROME | MVLAERNTTDVVRNGRRSRGPSPNTHTTGGVTNSASLVGSGNNSGHSGNANANEKTTTAVPGAGTPESSDDDNSTKRNGKSKAKQSEYEEKIRVGRDYQAVCPPLVPEAERRPEQMNERALLVWSPTKEIPDLKLEEYISVAKEKYGYNGEQALGMLFWHKHDLERAVMDLANFTPFPDEWTIEDKVLFEQAFQFHGKSFHRIRQMLPDKSIASLVKYYYSWKKTRHRSSAMDRQEKAIKAVVKDGSENGSEVGSNEESDNDDKIQKNRQVMEQLDKECETINVDDVLSKPAAANTESAQPRISARWLPDEIQVALLAIREYGKNFPTIAKVVATKTEAHVRTFYLNNRRRYNLDQIVKEYEAGKSEESGAEEQTEPAVDAAAAGAATASAPSAADSTSAASATADRKQSTENSNNGVETMQESLPKKEDPKKPELAAAVLKIGVAEAADAVATVASSTASGVIGAATSASKPSTSATITIIDESDTATNSSSDVVTTGLATSTGSSALSSTTSAPASKTQTSSEELSAQKSNPASGIAAIGAATGGGQTANSSGSKRDSSVLPVAEQPPAKKIALSTGGGSSVAEFLAN |
| 3228 | sp|Q9H1K0|RBNS5\_HUMAN | MASLDDPGEVREGFLCPLCLKDLQSFYQLHSHYEEEHSGEDRDVKGQIKSLVQKAKKAKDRLLKREGDDRAESGTQGYESFSYGGVDPYMWEPQELGAVRSHLSDFKKHRAARIDHYVVEVNKLIIRLEKLTAFDRTNTESAKIRAIEKSVVPWVNDQDVPFCPDCGNKFSIRNRRHHCRLCGSIMCKKCMELISLPLANKLTSASKESLSTHTSPSQSPNSVHGSRRGSISSMSSVSSVLDEKDDDRIRCCTHCKDTLLKREQQIDEKEHTPDIVKLYEKLRLCMEKVDQKAPEYIRMAASLNAGETTYSLEHASDLRVEVQKVYELIDALSKKILTLGLNQDPPPHPSNLRLQRMIRYSATLFVQEKLLGLMSLPTKEQFEELKKKRKEEMERKRAVERQAALESQRRLEERQSGLASRAANGEVASLRRGPAPLRKAEGWLPLSGGQGQSEDSDPLLQQIHNITSFIRQAKAAGRMDEVRTLQENLRQLQDEYDQQQTEKAIELSRRQAEEEDLQREQLQMLRERELEREREQFRVASLHTRTRSLDFREIGPFQLEPSREPRTHLAYALDLGSSPVPSSTAPKTPSLSSTQPTRVWSGPPAVGQERLPQSSMPQQHEGPSLNPFDEEDLSSPMEEATTGPPAAGVSLDPSARILKEYNPFEEEDEEEEAVAGNPFIQPDSPAPNPFSEEDEHPQQRLSSPLVPGNPFEEPTCINPFEMDSDSGPEAEEPIEEELLLQQIDNIKAYIFDAKQCGRLDEVEVLTENLRELKHTLAKQKGGTD |
| 3229 | sp|P23640|RB27A\_RAT | MSDGDYDYLIKFLALGDSGVGKTSVLYQYTDGKFNSKFITTVGIDFREKRVVYRANGPDGTVGRGQRIHLQLWDTAGQERFRSLTTAFFRDAMGFLLLFDLTNEQSFLNVRNWISQLQMHAYCENPDIVLCGNKSDLEDQRAVKEEEARELAEKYGIPYFETSAANGTNISQAIEMLLDLIMKRMERCVDKSWIPEGVVRSNGHTSTDQLSEEKEKGLCGC |
| 3230 | sp|P89657|RDRP\_PMMVJ | MAYTQQATNAALASTLRGNNPLVNDLANRRLYESAVEQCNAHDRRPKVNFLRSISEEQTLIATKAYPEFQITFYNTQNAVHSLAGGLRSLELEYLMMQIPYGSTTYDIGGNFAAHMFKGRDYVHCCMPNMDLRDVMRHNAQKDSIELYLSKLAQKKKVIPPYQKPCFDKYTDDPQSVVCSKPFQHCEGVSHCTDKVYAVALHSLYDIPADEFGAALLRRNVHVCYAAFHFSENLLLEDSYVSLDDIGAFFSREGDMLNFSFVAESTLNYTHSYSNVLKYVCKTYFPASSREVYMKEFLVTRVNTWFCKFSRLDTFVLYRGVYHRGVDKEQFYSAMEDAWHYKKTLAMMNSERILLEDSSSVNYWFPKMKDMVIVPLFDVSLQNEGKRLARKEVMVSKDFVYTVLNHIRTYQSKALTYANVLSFVESIRSRVIINGVTARSEWDVDKALLQSLSMTFFLQTKLAMLKDDLVVQKFQVHSKSLTEYVWDEITAAFHNCFPTIKERLINKKLITVSEKALEIKVPDLYVTFHDRLVKEYKSSVEMPVLDVKKSLEEAEVMYNALSEISILKDSDKFDVDVFSRMCNTLGVDPLVAAKVMVAVVSNESGLTLTFERPTEANVALALQPTITSKEEGSLKIVSSDVGESSIKEVVRKSEISMLGLTGNTVSDEFQRSTEIESLQQFHMVSTETIIRKQMHAMVYTGPLKVQQCKNYLDSLVASLSAAVSNLKKIIKDTAAIDLETKEKFGVYDVCLKKWLVKPLSKGHAWGVVMDSDYKCFVALLTYDGENIVCGETWRRVAVSSESLVYSDMGKIRAIRSVLKDGEPHISSAKVTLVDGVPGCGKTKEILSRVNFDEDLVLVPGKQAAEMIRRRANSSGLIVATKENVRTVDSFLMNYGRGPCQYKRLFLDEGLMLHPGCVNFLVGMSLCSEAFVYGDTQQIPYINRVATFPYPKHLSQLEVDAVETRRTTLRCPADITFFLNQKYEGQVMCTSSVTRSVSHEVIQGAAVMNPVSKPLKGKVITFTQSDKSLLLSRGYEDVHTVHEVQGETFEDVSLVRLTPTPVGIISKQSPHLLVSLSRHTRSIKYYTVVLDAVVSVLRDLECVSSYLLDMYKVDVSTQYQLQIESVYKGVNLFVAAPKTGDVSDMQYYYDKCLPGNSTILNEYDAVTMQIRENSLNVKDCVLDMSKSVPLPRESETTLKPVIRTAAEKPRKPGLLENLVAMIKRNFNSPELVGVVDIEDTASLVVDKFFDAYLIKEKKKPKNIPLLSRASLERWIEKQEKSTIGQLADFDFIDLPAVDQYRHMIKQQPKQRLDLSIQTEYPALQTIVYHSKKINALFGPVFSELTRQLLETIDSSRFMFYTRKTPTQIEEFFSDLDSNVPMDILELDISKYDKSQNEFHCAVEYEIWKRLGLDDFLAEVWKHGHRKTTLKDYTAGIKTCLWYQRKSGDVTTFIGNTIIIAACLSSMLPMERLIKGAFCGDDSILYFPKGTDFPDIQQGANLLWNFEAKLFRKRYGYFCGRYIIHHDRGCIVYYDPLKLISKLGAKHIKNREHLEEFRTSLCDVAGSLNNCAYYTHLDDAVGEVIKTAPPGSFVYRALVKYLCDKRLFQTLFLE |
| 3231 | sp|Q0PW25|RDRP\_CFMVN | MGCSVVGNCKSVMLMSRMSWSKLALLISVAMAAAMTDSPPTLICMGILVSVVLNWIVCAVCEEASELILGVSLETTRPSPARVIGEPVFDPRYGYVAPAIYDGKSFDVILPISALSSASTRKETVEMAVENSRLQPLESSQTPKSLVALYSQDLLSGWGSRIKGPDGQEYLLTALHVWETNISHLCKDGKKVPISGCPIVASSADSDLDFVLVSVPKNAWSVLGVGVARLELLKRRTVVTVYGGLDSKTTYCATGVAELENPFRIVTKVTTTGGWSGSPLYHKDAIVGLHLGARPSAGVNRACNVAMAFRVVRKFVTVENSELYPDQSSGPARELDAETYTERLEQGIAFTEYNISGITVKTSDREWTTAEALRVARYKPLGGGKAWGDSDDEDTQETAIRPLNLPAGGLPTGQSALGQLIEYAGYVWRDEGIINSNGMPFRSAGKSSCRFREAVCRAVHRDVRAAETEFPELKELAWPSRGSKAEIGSLLFQAGRFERVEAPANLQLAITNLQAQYPRSRPRSCFRREPWCREDFVAEIEKIAHSGEINLKASPGVPLAEIGVSNQQVIDVAWPLVCEAVVERLHALASVDPRQHDWSPEELVKRGLCDPVRLFVKQEPHSRQKIEQGRFRLISSVSLVDQLVERMLFGPQNTTEIALWHSNPSKPGMGLSKASQVALLWEDLARKHQTHPGAMADISGFDWSVQDWELWADVSMRIELGSFPALMAKAAISRFYCLMNATFQLTNGELLTQELPGLMKSGSYCTSSSNSRIRCLMAELIGSPWCIAMGDDSVEGWVDDAPRKYSALGHLCKEYEACPVLPNGDLKEVSFCSHLISKGRAELETWPKCLFRYLSGPHDVESLEMELSSSRRWGQIVRYLRRIGRVSGNDGEERSSNESPATTKTQGSAAAWGPPQEAWPVDGASLSTFEPSSSGWFHLEGW |
| 3232 | sp|Q14964|RB39A\_HUMAN | METIWIYQFRLIVIGDSTVGKSCLLHRFTQGRFPGLRSPACDPTVGVDFFSRLLEIEPGKRIKLQLWDTAGQERFRSITRSYYRNSVGGFLVFDITNRRSFEHVKDWLEEAKMYVQPFRIVFLLVGHKCDLASQRQVTREEAEKLSADCGMKYIETSAKDATNVEESFTILTRDIYELIKKGEICIQDGWEGVKSGFVPNTVHSSEEAVKPRKECFC |
| 3233 | sp|Q8H1E4|RAP24\_ARATH | MAAAMNLYTCSRSFQDSGGELMDALVPFIKSVSDSPSSSSAASASAFLHPSAFSLPPLPGYYPDSTFLTQPFSYGSDLQQTGSLIGLNNLSSSQIHQIQSQIHHPLPPTHHNNNNSFSNLLSPKPLLMKQSGVAGSCFAYGSGVPSKPTKLYRGVRQRHWGKWVAEIRLPRNRTRLWLGTFDTAEEAALAYDKAAYKLRGDFARLNFPNLRHNGSHIGGDFGEYKPLHSSVDAKLEAICKSMAETQKQDKSTKSSKKREKKVSSPDLSEKVKAEENSVSIGGSPPVTEFEESTAGSSPLSDLTFADPEEPPQWNETFSLEKYPSYEIDWDSILA |
| 3234 | sp|Q7Z6E9|RBBP6\_HUMAN | MSCVHYKFSSKLNYDTVTFDGLHISLCDLKKQIMGREKLKAADCDLQITNAQTKEEYTDDNALIPKNSSVIVRRIPIGGVKSTSKTYVISRTEPAMATTKAIDDSSASISLAQLTKTANLAEANASEEDKIKAMMSQSGHEYDPINYMKKPLGPPPPSYTCFRCGKPGHYIKNCPTNGDKNFESGPRIKKSTGIPRSFMMEVKDPNMKGAMLTNTGKYAIPTIDAEAYAIGKKEKPPFLPEEPSSSSEEDDPIPDELLCLICKDIMTDAVVIPCCGNSYCDECIRTALLESDEHTCPTCHQNDVSPDALIANKFLRQAVNNFKNETGYTKRLRKQLPPPPPPIPPPRPLIQRNLQPLMRSPISRQQDPLMIPVTSSSTHPAPSISSLTSNQSSLAPPVSGNPSSAPAPVPDITATVSISVHSEKSDGPFRDSDNKILPAAALASEHSKGTSSIAITALMEEKGYQVPVLGTPSLLGQSLLHGQLIPTTGPVRINTARPGGGRPGWEHSNKLGYLVSPPQQIRRGERSCYRSINRGRHHSERSQRTQGPSLPATPVFVPVPPPPLYPPPPHTLPLPPGVPPPQFSPQFPPGQPPPAGYSVPPPGFPPAPANLSTPWVSSGVQTAHSNTIPTTQAPPLSREEFYREQRRLKEEEKKKSKLDEFTNDFAKELMEYKKIQKERRRSFSRSKSPYSGSSYSRSSYTYSKSRSGSTRSRSYSRSFSRSHSRSYSRSPPYPRRGRGKSRNYRSRSRSHGYHRSRSRSPPYRRYHSRSRSPQAFRGQSPNKRNVPQGETEREYFNRYREVPPPYDMKAYYGRSVDFRDPFEKERYREWERKYREWYEKYYKGYAAGAQPRPSANRENFSPERFLPLNIRNSPFTRGRREDYVGGQSHRSRNIGSNYPEKLSARDGHNQKDNTKSKEKESENAPGDGKGNKHKKHRKRRKGEESEGFLNPELLETSRKSREPTGVEENKTDSLFVLPSRDDATPVRDEPMDAESITFKSVSEKDKRERDKPKAKGDKTKRKNDGSAVSKKENIVKPAKGPQEKVDGERERSPRSEPPIKKAKEETPKTDNTKSSSSSQKDEKITGTPRKAHSKSAKEHQETKPVKEEKVKKDYSKDVKSEKLTTKEEKAKKPNEKNKPLDNKGEKRKRKTEEKGVDKDFESSSMKISKLEVTEIVKPSPKRKMEPDTEKMDRTPEKDKISLSAPAKKIKLNRETGKKIGSTENISNTKEPSEKLESTSSKVKQEKVKGKVRRKVTGTEGSSSTLVDYTSTSSTGGSPVRKSEEKTDTKRTVIKTMEEYNNDNTAPAEDVIIMIQVPQSKWDKDDFESEEEDVKSTQPISSVGKPASVIKNVSTKPSNIVKYPEKESEPSEKIQKFTKDVSHEIIQHEVKSSKNSASSEKGKTKDRDYSVLEKENPEKRKNSTQPEKESNLDRLNEQGNFKSLSQSSKEARTSDKHDSTRASSNKDFTPNRDKKTDYDTREYSSSKRRDEKNELTRRKDSPSRNKDSASGQKNKPREERDLPKKGTGDSKKSNSSPSRDRKPHDHKATYDTKRPNEETKSVDKNPCKDREKHVLEARNNKESSGNKLLYILNPPETQVEKEQITGQIDKSTVKPKPQLSHSSRLSSDLTRETDEAAFEPDYNESDSESNVSVKEEESSGNISKDLKDKIVEKAKESLDTAAVVQVGISRNQSHSSPSVSPSRSHSPSGSQTRSHSSSASSAESQDSKKKKKKKEKKKHKKHKKHKKHKKHAGTEVELEKSQKHKHKKKKSKKNKDKEKEKEKDDQKVKSVTV |
| 3235 | sp|Q8BK67|RCC2\_MOUSE | MPRKKGAAWEEPSSGNGTARAGPRRRGGPAGRKRERPERCSSSSGGGSSGDEDGPELDGAPGGGKRTARPATAGKAAGAAAIITEPEHTKERVKLEGSKCKGQLLIFGATNWDLIGRKEVPKQQAAYRNLGQNLWGPHRYGCLSGVRVRTVVSGSCAAHSLLITTEGKLWSWGRNEKGQLGHGDTKRVEAPRLIEALSHEAIVLAACGRNHTLALTDTGSVFAFGENKMGQLGLGNQTDAVPSPAQIMYNGQPITKMACGAEFSMLMDCKGNLYSFGCPEYGQLGHNSDGKFIARAQRIEYDCELVPRRVAIFIEKTKDGQILPVPNVVVRDVACGANHTLVLDSQKRVFSWGFGGYGRLGHAEQKDEMVPRLVKLFDFPGRGATQIYAGYTCSFAVSEVGGLFFWGATNTSRESTMYPKAVQDLCGWRIRSLACGKSSIIVAADESTISWGPSPTFGELGYGDHKPKSSTAAQEVKTLDGIFSEQVAMGYSHSLVIARDESEAEKEKLQRLPEYTPRTL |
| 3236 | sp|Q62636|RAP1B\_RAT | MREYKLVVLGSGGVGKSALTVQFVQGIFVEKYDPTIEDSYRKQVEVDAQQCMLEILDTAGTEQFTAMRDLYMKNGQGFALVYSITAQSTFNDLQDLREQILRVKDTDDVPMILVGNKCDLEDERVVGKEQGQNLARQWSNCAFLESSAKSKINVNEIFYDLVRQINRKTPVPGKARKKSSCQLL |
| 3237 | sp|Q1HE58|RB27A\_CANLF | MSDGDYDYLIKFLALGDSGVGKTSVLYQYTDGKFNSKFITTVGIDFREKRVVYRANGPDGAIGRGQRIHLQLWDTAGQERFRSLTTAFFRDAMGFLLLFDLTNEQSFLNVRNWISQLQMHAYCENPDIVLCGNKSDLEDQRVVKEEDARGLAEKYGIPYFETSAANGTNISQAIEMLLDLIMKRMERCVDKSWIPEGVVRSNGHTSTDHLNEAKEKGICGC |
| 3238 | sp|P01116|RASK\_HUMAN | MTEYKLVVVGAGGVGKSALTIQLIQNHFVDEYDPTIEDSYRKQVVIDGETCLLDILDTAGQEEYSAMRDQYMRTGEGFLCVFAINNTKSFEDIHHYREQIKRVKDSEDVPMVLVGNKCDLPSRTVDTKQAQDLARSYGIPFIETSAKTRQRVEDAFYTLVREIRQYRLKKISKEEKTPGCVKIKKCIIM |
| 3239 | sp|Q5SVD0|RFLB\_MOUSE | MVGRLSLQDVPELVDTKKKGDGVLDSPDSGLPPSPSPSHWGLAATAGGGGERAPVAGTLEPDAAVTPIVPNPASLTHSLAAICSPRLCPLSFGEGVEFDPLPPKEIKYTSSVKYDSERHFIDDVQMPLGLVVASCSQTVTCIPNCTWRNYKAEVRFEPRPKPARFLSTTIVYPKYPKTVYTTTLDYNCHKKLRRFLSSVELEATEFLGSDGLADEC |
| 3240 | sp|A7KAX9|RHG32\_HUMAN | METESESSTLGDDSVFWLESEVIIQVTDCEEEEREEKFRKMKSSVHSEEDDFVPELHRNVHPRERPDWEETLSAMARGADVPEIPGDLTLKTCGSTASMKVKHVKKLPFTKGHFPKMAECAHFHYENVEFGSIQLSLSEEQNEVMKNGCESKELVYLVQIACQGKSWIVKRSYEDFRVLDKHLHLCIYDRRFSQLSELPRSDTLKDSPESVTQMLMAYLSRLSAIAGNKINCGPALTWMEIDNKGNHLLVHEESSINTPAVGAAHVIKRYTARAPDELTLEVGDIVSVIDMPPKVLSTWWRGKHGFQVGLFPGHCVELINQKVPQSVTNSVPKPVSKKHGKLITFLRTFMKSRPTKQKLKQRGILKERVFGCDLGEHLLNSGFEVPQVLQSCTAFIERYGIVDGIYRLSGVASNIQRLRHEFDSEHVPDLTKEPYVQDIHSVGSLCKLYFRELPNPLLTYQLYEKFSDAVSAATDEERLIKIHDVIQQLPPPHYRTLEFLMRHLSLLADYCSITNMHAKNLAIVWAPNLLRSKQIESACFSGTAAFMEVRIQSVVVEFILNHVDVLFSGRISMAMQEGAASLSRPKSLLVSSPSTKLLTLEEAQARTQAQVNSPIVTENKYIEVGEGPAALQGKFHTIIEFPLERKRPQNKMKKSPVGSWRSFFNLGKSSSVSKRKLQRNESEPSEMKAMALKGGRAEGTLRSAKSEESLTSLHAVDGDSKLFRPRRPRSSSDALSASFNGEMLGNRCNSYDNLPHDNESEEEGGLLHIPALMSPHSAEDVDLSPPDIGVASLDFDPMSFQCSPPKAESECLESGASFLDSPGYSKDKPSANKKDAETGSSQCQTPGSTASSEPVSPLQEKLSPFFTLDLSPTEDKSSKPSSFTEKVVYAFSPKIGRKLSKSPSMSISEPISVTLPPRVSEVIGTVSNTTAQNASSSTWDKCVEERDATNRSPTQIVKMKTNETVAQEAYESEVQPLDQVAAEEVELPGKEDQSVSSSQSKAVASGQTQTGAVTHDPPQDSVPVSSVSLIPPPPPPKNVARMLALALAESAQQASTQSLKRPGTSQAGYTNYGDIAVATTEDNLSSSYSAVALDKAYFQTDRPAEQFHLQNNAPGNCDHPLPETTATGDPTHSNTTESGEQHHQVDLTGNQPHQAYLSGDPEKARITSVPLDSEKSDDHVSFPEDQSGKNSMPTVSFLDQDQSPPRFYSGDQPPSYLGASVDKLHHPLEFADKSPTPPNLPSDKIYPPSGSPEENTSTATMTYMTTTPATAQMSTKEASWDVAEQPTTADFAAATLQRTHRTNRPLPPPPSQRSAEQPPVVGQVQAATNIGLNNSHKVQGVVPVPERPPEPRAMDDPASAFISDSGAAAAQCPMATAVQPGLPEKVRDGARVPLLHLRAESVPAHPCGFPAPLPPTRMMESKMIAAIHSSSADATSSSNYHSFVTASSTSVDDALPLPLPVPQPKHASQKTVYSSFARPDVTTEPFGPDNCLHFNMTPNCQYRPQSVPPHHNKLEQHQVYGARSEPPASMGLRYNTYVAPGRNASGHHSKPCSRVEYVSSLSSSVRNTCYPEDIPPYPTIRRVQSLHAPPSSMIRSVPISRTEVPPDDEPAYCPRPLYQYKPYQSSQARSDYHVTQLQPYFENGRVHYRYSPYSSSSSSYYSPDGALCDVDAYGTVQLRPLHRLPNRDFAFYNPRLQGKSLYSYAGLAPRPRANVTGYFSPNDHNVVSMPPAADVKHTYTSWDLEDMEKYRMQSIRRESRARQKVKGPVMSQYDNMTPAVQDDLGGIYVIHLRSKSDPGKTGLLSVAEGKESRHAAKAISPEGEDRFYRRHPEAEMDRAHHHGGHGSTQPEKPSLPQKQSSLRSRKLPDMGCSLPEHRAHQEASHRQFCESKNGPPYPQGAGQLDYGSKGIPDTSEPVSYHNSGVKYAASGQESLRLNHKEVRLSKEMERPWVRQPSAPEKHSRDCYKEEEHLTQSIVPPPKPERSHSLKLHHTQNVERDPSVLYQYQPHGKRQSSVTVVSQYDNLEDYHSLPQHQRGVFGGGGMGTYVPPGFPHPQSRTYATALGQGAFLPAELSLQHPETQIHAE |
| 3241 | sp|Q52LW3|RHG29\_HUMAN | MIAHKQKKTKKKRAWASGQLSTDITTSEMGLKSLSSNSIFDPDYIKELVNDIRKFSHMLLYLKEAIFSDCFKEVIHIRLEELLRVLKSIMNKHQNLNSVDLQNAAEMLTAKVKAVNFTEVNEENKNDLFQEVFSSIETLAFTFGNILTNFLMGDVGNDSLLRLPVSRETKSFENVSVESVDSSSEKGNFSPLELDNVLLKNTDSIELALSYAKTWSKYTKNIVSWVEKKLNLELESTRNMVKLAEATRTNIGIQEFMPLQSLFTNALLNDIESSHLLQQTIAALQANKFVQPLLGRKNEMEKQRKEIKELWKQEQNKMLEAENALKKAKLLCMQRQDEYEKAKSSMFRAEEEHLSSSGGLAKNLNKQLEKKRRLEEEALQKVEEANELYKVCVTNVEERRNDLENTKREILAQLRTLVFQCDLTLKAVTVNLFHMQHLQAASLADSLQSLCDSAKLYDPGQEYSEFVKATNSTEEEKVDGNVNKHLNSSQPSGFGPANSLEDVVRLPDSSNKIEEDRCSNSADITGPSFIRSWTFGMFSDSESTGGSSESRSLDSESISPGDFHRKLPRTPSSGTMSSADDLDEREPPSPSETGPNSLGTFKKTLMSKAALTHKFRKLRSPTKCRDCEGIVVFQGVECEECLLVCHRKCLENLVIICGHQKLPGKIHLFGAEFTQVAKKEPDGIPFILKICASEIENRALCLQGIYRVCGNKIKTEKLCQALENGMHLVDISEFSSHDICDVLKLYLRQLPEPFILFRLYKEFIDLAKEIQHVNEEQETKKNSLEDKKWPNMCIEINRILLKSKDLLRQLPASNFNSLHFLIVHLKRVVDHAEENKMNSKNLGVIFGPSLIRPRPTTAPITISSLAEYSNQARLVEFLITYSQKIFDGSLQPQDVMCSIGVVDQGCFPKPLLSPEERDIERSMKSLFFSSKEDIHTSESESKIFERATSFEESERKQNALGKCDACLSDKAQLLLDQEAESASQKIEDGKTPKPLSLKSDRSTNNVERHTPRTKIRPVSLPVDRLLLASPPNERNGRNMGNVNLDKFCKNPAFEGVNRKDAATTVCSKFNGFDQQTLQKIQDKQYEQNSLTAKTTMIMPSALQEKGVTTSLQISGDHSINATQPSKPYAEPVRSVREASERRSSDSYPLAPVRAPRTLQPQHWTTFYKPHAPIISIRGNEEKPASPSAAVPPGTDHDPHGLVVKSMPDPDKASACPGQATGQPKEDSEELGLPDVNPMCQRPRLKRMQQFEDLEGEIPQFV |
| 3242 | sp|O43353|RIPK2\_HUMAN | MNGEAICSALPTIPYHKLADLRYLSRGASGTVSSARHADWRVQVAVKHLHIHTPLLDSERKDVLREAEILHKARFSYILPILGICNEPEFLGIVTEYMPNGSLNELLHRKTEYPDVAWPLRFRILHEIALGVNYLHNMTPPLLHHDLKTQNILLDNEFHVKIADFGLSKWRMMSLSQSRSSKSAPEGGTIIYMPPENYEPGQKSRASIKHDIYSYAVITWEVLSRKQPFEDVTNPLQIMYSVSQGHRPVINEESLPYDIPHRARMISLIESGWAQNPDERPSFLKCLIELEPVLRTFEEITFLEAVIQLKKTKLQSVSSAIHLCDKKKMELSLNIPVNHGPQEESCGSSQLHENSGSPETSRSLPAPQDNDFLSRKAQDCYFMKLHHCPGNHSWDSTISGSQRAAFCDHKTTPCSSAIINPLSTAGNSERLQPGIAQQWIQSKREDIVNQMTEACLNQSLDALLSRDLIMKEDYELVSTKPTRTSKVRQLLDTTDIQGEEFAKVIVQKLKDNKQMGLQPYPEILVVSRSPSLNLLQNKSM |
| 3243 | sp|P52758|RIDA\_HUMAN | MSSLIRRVISTAKAPGAIGPYSQAVLVDRTIYISGQIGMDPSSGQLVSGGVAEEAKQALKNMGEILKAAGCDFTNVVKTTVLLADINDFNTVNEIYKQYFKSNFPARAAYQVAALPKGSRIEIEAVAIQGPLTTASL |
| 3244 | sp|P06780|RHO1\_YEAST | MSQQVGNSIRRKLVIVGDGACGKTCLLIVFSKGQFPEVYVPTVFENYVADVEVDGRRVELALWDTAGQEDYDRLRPLSYPDSNVVLICFSIDLPDSLENVQEKWIAEVLHFCQGVPIILVGCKVDLRNDPQTIEQLRQEGQQPVTSQEGQSVADQIGATGYYECSAKTGYGVREVFEAATRASLMGKSKTNGKAKKNTTEKKKKKCVLL |
| 3245 | sp|P52759|RIDA\_RAT | MSSIIRKVISTSKAPAAIGAYSQAVLVDRTIYVSGQIGMDPSSGQLVPGGVAEEAKQALKNLGEILKAAGCDFTNVVKTTVLLADINDFGTVNEIYKTYFQGNLPARAAYQVAALPKGSRIEIEAIAVQGPFTTAGL |
| 3246 | sp|Q9W358|RIC8\_DROME | METEHLKRLEAKEADHIPAILDEFNTKNADLLVFDSFRTDNLWHELWLAIFGILDDQRLSHLHTQCLNTVRILTRDEFSLQTNYIEQEVNTLLKLARIEAGSLKLPATPDELKQEEREEPQLEPSQAQSEVIAEALKCLCNLVYQSSDCRRQCLRQHCLDAILKRVASSMRHPCALEYYDMKLLFLLTALEPAARSRLQIDLNGLTYMTKWLDDKLGEDSVGEEQLNIICELLKVMFNVTSAPDKSPNEYEIQSLHLTGVLRELLLRFGDLATEKDRAVVTHAINLLTNISGSCLTELTLRCSNAELESHKEREQDNEKEKDTEAGAGAKPRECCSQCFEKRNVRSLDVLLRYLRQSLAQQEAEASSHELLSPVLTVLVKCARSDRVMRHYLRQEILPPLRDVSQRPEVGQELRNHLCRFLTLPAMILRDLSAELLFVLCKENVGRMIKYTGYGNAAGLFAKRGILDCRRVEGTDYSSDSEDSDTEEYKQQQQGINPVLGCVEPRSKSHLDDISEEQKEYEAMQLVNLIEQLRQGGIVKPAMIDKDGRPQPLEHILQLQEELPQQQLDQKRKT |
| 3247 | sp|Q6ZS17|RIPR1\_HUMAN | MMSLSVRPQRRLLSARVNRSQSFAGVLGSHERGPSLSFRSFPVFSPPGPPRKPPALSRVSRMFSVAHPAAKVPQPERLDLVYTALKRGLTAYLEVHQQEQEKLQGQIRESKRNSRLGFLYDLDKQVKSIERFLRRLEFHASKIDELYEAYCVQRRLRDGAYNMVRAYTTGSPGSREARDSLAEATRGHREYTESMCLLESELEAQLGEFHLRMKGLAGFARLCVGDQYEICMKYGRQRWKLRGRIEGSGKQVWDSEETIFLPLLTEFLSIKVTELKGLANHVVVGSVSCETKDLFAALPQVVAVDINDLGTIKLSLEVTWSPFDKDDQPSAASSVNKASTVTKRFSTYSQSPPDTPSLREQAFYNMLRRQEELENGTAWSLSSESSDDSSSPQLSGTARHSPAPRPLVQQPEPLPIQVAFRRPETPSSGPLDEEGAVAPVLANGHAPYSRTLSHISEASVDAALAEASVEAVGPESLAWGPSPPTHPAPTHGEHPSPVPPALDPGHSATSSTLGTTGSVPTSTDPAPSAHLDSVHKSTDSGPSELPGPTHTTTGSTYSAITTTHSAPSPLTHTTTGSTHKPIISTLTTTGPTLNIIGPVQTTTSPTHTMPSPTHTTASPTHTSTSPTHTPTSPTHKTSMSPPTTTSPTPSGMGLVQTATSPTHPTTSPTHPTTSPILINVSPSTSLELATLSSPSKHSDPTLPGTDSLPCSPPVSNSYTQADPMAPRTPHPSPAHSSRKPLTSPAPDPSESTVQSLSPTPSPPTPAPQHSDLCLAMAVQTPVPTAAGGSGDRSLEEALGALMAALDDYRGQFPELQGLEQEVTRLESLLMQRQGLTRSRASSLSITVEHALESFSFLNEDEDEDNDVPGDRPPSSPEAGAEDSIDSPSARPLSTGCPALDAALVRHLYHCSRLLLKLGTFGPLRCQEAWALERLLREARVLEAVCEFSRRWEIPASSAQEVVQFSASRPGFLTFWDQCTERLSCFLCPVERVLLTFCNQYGARLSLRQPGLAEAVCVKFLEDALGQKLPRRPQPGPGEQLTVFQFWSFVETLDSPTMEAYVTETAEEVLLVRNLNSDDQAVVLKALRLAPEGRLRRDGLRALSSLLVHGNNKVMAAVSTQLRSLSLGPTFRERALLCFLDQLEDEDVQTRVAGCLALGCIKAPEGIEPLVYLCQTDTEAVREAARQSLQQCGEEGQSAHRRLEESLDALPRIFGPGSMASTAF |
| 3248 | sp|Q80U16|RIPR2\_MOUSE | MPPGTKRLRALGAFSAGLPTRLPEIMLVGSQSFSPGGPNGIIRSQSFAGFSGLQERRSRCNSFIENASALKKPQAKLKKMHNLGHKNNNTPKEPQPKRVEEVYRALKNGLDEYLEFHQTELDKLTAQLKDMKRNSRLGVLYDLDKQIKTIERYMRRLEFHISKVDELYEAYCIQRRLQDGASKMKQAFATSPASKAARESLSEINRSYKEYTENMCAIEAELESLLGEFSIKMKGLAGFARLCPGDQYEIFMKYGRQRWKLKGKIEVNGKQSWDGAETVFLPLIVGFISIKVTELKGLATHILVGSVTCETKELFAARPQVVAVDINDLGTIKLNLEITWYPFDVEDTTPSSGPGNKTAALQRRMSMYSQGTPETPTFKDQSFFRWLRLSVLSALRDTFFATLHHNHSVGDLPSLSLNPKALLEFYSNLPDDIFESGKAAEEKRPLSLSFSDLQDGDCVFTSSSATSPSSSHSAHPEITITPAELTHSSLSSQNEGTEDSSSASSRNSLGEDHEPKSHPKSDTVEPGKPGVATRSGTESLFLESSVAEALLQESDEASELKPVELDTFEGNITKQLVKRLTSAEGPVTTDKLFFEGSVGSESEAGRSFLDGSLEDAFNGLFLALDPHKKQYKEFQDLNQEVTHLDDVLKCKPAGSRSRSSSLSLTVESALESFDFLNTSDFDEEEEDGDDVCHVGGGADSVFSDTETEKSGYRSVHPEARGHLSEALTEDTGVGTSVAGSPLPLTTGNESLDITIVKHLQYCTQLIQQIVFSSKTPFVARSLLEKLSRQVLVMQKLAAVSDENLGNITSVVEAIPEFHKKLSLLAFWTKCCSPSGVYHSSAARLIKQLEASFARSINKDYPGLAEPVFRTLVSQILDRAEPLLSSSLSSEVITVFQYYSFFTSHGVSDLETYLGQLTRQVAMVQTLQSLRDEKLLQTMSDLAPSNLPAQQEVLRTLALLLTRDDNEVSEAVTLYLAAASKNEHFREKALLYYCEALTKANLQLQKAACLALKSLEATESIKMLVTLCQSDTEEIRTVASETLLSLGEDGRLAYEQLDKFPRDCVKVGGRHGTEVATAF |
| 3249 | sp|P0A944|RIMI\_ECOLI | MNTISSLETTDLPAAYHIEQRAHAFPWSEKTFASNQGERYLNFQLTQNGKMAAFAITQVVLDEATLFNIAVDPDYQRQGLGRALLEHLIDELEKRGVATLWLEVRASNAAAIALYESLGFNEATIRRNYYPTTDGREDAIIMALPISM |
| 3250 | sp|P21524|RIR1\_YEAST | MYVYKRDGRKEPVQFDKITARISRLCYGLDPKHIDAVKVTQRIISGVYEGVTTIELDNLAAETCAYMTTVHPDYATLAARIAISNLHKQTTKQFSKVVEDLYRYVNAATGKPAPMISDDVYNIVMENKDKLNSAIVYDRDFQYSYFGFKTLERSYLLRINGQVAERPQHLIMRVALGIHGRDIEAALETYNLMSLKYFTHASPTLFNAGTPKPQMSSCFLVAMKEDSIEGIYDTLKECALISKTAGGIGLHIHNIRSTGSYIAGTNGTSNGLIPMIRVFNNTARYVDQGGNKRPGAFALYLEPWHADIFDFIDIRKNHGKEEIRARDLFPALWIPDLFMKRVEENGTWTLFSPTSAPGLSDCYGDEFEALYTRYEKEGRGKTIKAQKLWYSILEAQTETGTPFVVYKDACNRKSNQKNLGVIKSSNLCCEIVEYSAPDETAVCNLASVALPAFIETSEDGKTSTYNFKKLHEIAKVVTRNLNRVIDRNYYPVEEARKSNMRHRPIALGVQGLADTFMLLRLPFDSEEARLLNIQIFETIYHASMEASCELAQKDGPYETFQGSPASQGILQFDMWDQKPYGMWDWDTLRKDIMKHGVRNSLTMAPMPTASTSQILGYNECFEPVTSNMYSRRVLSGEFQVVNPYLLRDLVDLGIWDEGMKQYLITQNGSIQGLPNVPQELKDLYKTVWEISQKTIINMAADRSVYIDQSHSLNLFLRAPTMGKLTSMHFYGWKKGLKTGMYYLRTQAASAAIQFTIDQKIADQATENVADISNLKRPSYMPSSASYAASDFVPAAVTANATIPSLDSSSEASREASPAPTGSHSLTKGMAELNVQESKVEVPEVPAPTKNEEKAAPIVDDEETEFDIYNSKVIACAIDNPEACEMCSG |
| 3251 | sp|Q9VCX1|RGS\_DROME | MHHHHPPLPITGASGSTAVGTGAAAAEDASPAANSGPAPISTSTTPSGSNSQQHQRRRKKRANYNYNGIRTVEVRRGYNGFGFTISGQQPCRLSCIISSSPAEQAGLRSGDFLISVNGLNVSKLPHETVVQLIGNSFGSIRMQIAENYYSDSSDEENAHATLRGQLLAASLRHKPRFLHHKAKLHRLRNSPQKKLNPPEAVEPHKSKSSPDHPTLKPVLEDPPLTANLSKAADVANVSAMVRAVGSAALECRVIVGYLGTIEMPKQISHSSKLQTVRSCIRKLRQEKRQPTIVLMCITPDSLSLQSSSGGVLATYSSARLNFVSSSSESENRFFGLVTSAVHNTQIEEEYEPSAGSAAAAGHISISHSCHVFVIDTKLIEHAQHLQRAHEFRLQCTRDPISNLCLEFPNNSEYVVNLVRSMYTMRILPPASRSHQADYEAGAGAAAAGGAVAAAHSPQPSNHSEISTTTSNSDSGIGFNNDCTNISDRILVVDFLAAGAGAAAAAHAGPPTYPAPARPLGIVGIPDNRLTVRAMPDHSALLRSPPASSSLRRPNLLASFNLIQSPATNLTSTRSCDDVLNLFVDDSPRTLAAVASMDDISLHSAAPSLDEGHTFAHPACVPRKMRRSLALETPTTPHKLSAQVFGQPGSRHSLGFEAIDSVQSSVSGACMDQTMDTWASLQNLHKSHKDRTSMSASSSSHCLLEATNSEPDLGNRALPANASPFRRAWGQSSFRTPRSDKVAKEQQQLGQSSPVRRTASMNASDNDMYIKTLMLDSDLKSSRSQHQLSLLQVPKVLTTPAPPSAITASVAAEGAAQDHGCPSSWAGSFERMLQDAAGMQTFSEFLKKEFSAENIYFWTACERYRLLESEADRVAQAREIFAKHLANNSSDPVNVDSQARSLTEEKLADAAPDIFAPAQKQIFSLMKFDSYQRFIRSDLYKSCVEAEQKNQPLPYSGLDLDELLKTNFHLGAFSKLKKSASNAEDRRRKSLLPWHRKTRSKSRDRTEIMADMQHALMPAPPVPQNAPLTSASLKLVCGQNSLSDLHSSRSSLSSFDAGTATGGQGASTESVYSLCRVILTDGATTIVQTRPGETVGELVERLLEKRNLVYPYYDIVFQGSTKSIDVQQPSQILAGKEVVIERRVAFKLDLPDPKVISVKSKPKKQLHEVIRPILSKYNYKMEQVQVIMRDTQVPIDLNQPVTMADGQRLRIVMVNSDFQVGGGSSMPPKQSKPMKPLPQGHLDELTNKVFNELLASKADAAASEKSRPVDLCSMKSNEAPSETSSLFERMRRQQRDGGNIPASKLPKLKKKSTSSSQQSEEAATTQAVADPKKPIIAKLKAGVKLQVTERVAEHQDELLEGLKRAQLARLEDQRGTEINFDLPDFLKNKENLSAAVSKLRKVRASLSPVSKVPATPTEIPQPAPRLSITRSQQPVSPMKVDQEPETDLPAATQDQTEFAKAPPPLPPKPKVLPIKPSNWGVAQPTGNYCNKYSPSKQVPTSPKEASKPGTFASKIPLDLGRKSLEEAGSRCAYLDEPSSSFV |
| 3252 | sp|O97302|RH5IP\_PLAF7 | MFRIFFTLLIIILIKKTSAIDLIEGIFYEKNEIDKLTFSLDHRVRDNLKTDLILNNNGENDYAYLNKYVYTILNRDSTEKIKTFFSHNKDMKSCDYFISKEYNSSDKTNQICYKKTFCGVVIPNSEEIKTNKITNDKLYCAHFNSTHIIIYYISQPLLLEPHVVYEETFFEKGKNDQINCQGMYISLRSVHVHTHNAILQQETLTYIKNLCDGKNNCKFDFDSIKYENKSLTHYLFFINIQYQCISPLNLQENEMCDVYNDDTHKATCKYGFNKIELLKNVCEENYRCTQDICSVNQFCDGENETCTCKTSLLPSAKNNCEYNDLCTVLNCPENSTCEQIGNGKKAECKCENGKYYHNNKCYTKNDLELAIKIEPHKKEKFYKNNLYQGKALKPEYIFMQCENGFSIEVINAYVSCYRVSFNLNKLKYVTESLKKMCDGKTKCAYGNTIDPIDDLNHHNICNNFNTIFKYDYLCVFNNQNITSDKNSHLHSNIPSLYNSSILPDINKSKFHLISRNSRTNQYPHNNISMLEIQNEISSHNSNQFSTDPHTNSNNINNMNIKKVEIFRSRFSSKLQCQGGKINIDKAILKGGEGCNDLLLTNSLKSYCNDLSECDIGLIYHFDTYCINDQYLFVSYSCSNLCNKCHNNSTCYGNRFNYDCFCDNPYISKYGNKLCERPNDCESVLCSQNQVCQILPNDKLICQCEEGYKNVKGKCVPDNKCDLSCPSNKVCVIENGKQTCKCSERFVLENGVCICANDYKMEDGINCIAKNKCKRKEYENICTNPNEMCAYNEETDIVKCECKEHYYRSSRGECILNDYCKDINCKENEECSIVNFKPECVCKENLKKNNKGECIYENSCLINEGNCPKDSKCIYREYKPHECVCNKQGHVAVNGKCVLEDKCVHNKKCSENSICVNVMNKEPICVCTYNYYKKDGVCLIQNPCLKDNGGCSRNSECTFKYSKINCTCKENYKNKDDSCVPNTNEYDESFTFQYNDDASIILGACGMIEFSYIYNQIIWKINNSKESYVFYYDYPTAGNIEVQIKNEIFHTIIYLKKKIGNSVIYDDFQVDHQTCIYENVFYYSNQN |
| 3253 | sp|P38339|RGD1\_YEAST | MEETAKKPASATVSAKSSHDGGTDDLAHLFSTPEIKKVLNSDVAINALLSRLKQSLLTCEEFMKFIRKKYAFEEEHVQELSKQYKHFFNIQGSTNSSLKKMIHEVLGFDGKMAQVKQSYITALQKMYSEISSLLLTMTKLRKSVKENSKRLEKDVSDAIHSAEKAQSRYNSLCQDWDKLRMTDPTKTKLTLRGSKTTKEQEEELLRKIDNADLEYKQKVDHSNSLRNTFITKERPRIVQELKDLILEIDTAMTIQLQKYTIWTENLVLNTGVTISPLDSTKSMKSFAGSVSNERDLYSFLNKYNQTGKHSLLINKNLIPVSYKKHPSMNHGQKNKSPPKFAVDPSRNSIPKRMISTHNESPFLSSSSNTAAVPNANLNSATPSLNTNKQLPPTMASSISSTSNAAGAMSPSSSIVTSDTTSSITKTLDPGNNSPQIPEELINSLDSDRPISHIQTNNNMPPGVQKNFKTFGVPLESLIEFEQDMVPAIVRQCIYVIDKFGLDQEGIYRKSANVLDVSKLKEEIDKDPANISMILPSKPHSDSDIYLVGSLLKTFFASLPDSVLPKALSSEIKVCLQIEDPTTRKNFMHGLIYNLPDAQYWTLRALVFHLKRVLAHEAQNRMNLRALCIIWGPTIAPANPDDANDVNFQIMAMEVLLEVSDQAFEPE |
| 3254 | sp|Q96B86|RGMA\_HUMAN | MQPPRERLVVTGRAGWMGMGRGAGRSALGFWPTLAFLLCSFPAATSPCKILKCNSEFWSATSGSHAPASDDTPEFCAALRSYALCTRRTARTCRGDLAYHSAVHGIEDLMSQHNCSKDGPTSQPRLRTLPPAGDSQERSDSPEICHYEKSFHKHSATPNYTHCGLFGDPHLRTFTDRFQTCKVQGAWPLIDNNYLNVQVTNTPVLPGSAATATSKLTIIFKNFQECVDQKVYQAEMDELPAAFVDGSKNGGDKHGANSLKITEKVSGQHVEIQAKYIGTTIVVRQVGRYLTFAVRMPEEVVNAVEDWDSQGLYLCLRGCPLNQQIDFQAFHTNAEGTGARRLAAASPAPTAPETFPYETAVAKCKEKLPVEDLYYQACVFDLLTTGDVNFTLAAYYALEDVKMLHSNKDKLHLYDRTRDLPGRAAAGLPLAPRPLLGALVPLLALLPVFC |
| 3255 | sp|Q03336|RGN\_RAT | MSSIKIECVLRENYRCGESPVWEEASKCLLFVDIPSKTVCRWDSISNRVQRVGVDAPVSSVALRQSGGYVATIGTKFCALNWEDQSVFILAMVDEDKKNNRFNDGKVDPAGRYFAGTMAEETAPAVLERHQGSLYSLFPDHSVKKYFDQVDISNGLDWSLDHKIFYYIDSLSYTVDAFDYDLPTGQISNRRTVYKMEKDEQIPDGMCIDVEGKLWVACYNGGRVIRLDPETGKRLQTVKLPVDKTTSCCFGGKDYSEMYVTCARDGMSAEGLLRQPDAGNIFKITGLGVKGIAPYSYAG |
| 3256 | sp|P40429|RL13A\_HUMAN | MAEVQVLVLDGRGHLLGRLAAIVAKQVLLGRKVVVVRCEGINISGNFYRNKLKYLAFLRKRMNTNPSRGPYHFRAPSRIFWRTVRGMLPHKTKRGQAALDRLKVFDGIPPPYDKKKRMVVPAALKVVRLKPTRKFAYLGRLAHEVGWKYQAVTATLEEKRKEKAKIHYRKKKQLMRLRKQAEKNVEKKIDKYTEVLKTHGLLV |
| 3257 | sp|P04487|RNB\_HHV11 | MSQTQPPAPVGPGDPDVYLKGVPSAGMHPRGVHAPRGHPRMISGPPQRGDNDQAAGQCGDSGLLRVGADTTISKPSEAVRPPTIPRTPRVPREPRVPRPPREPREPRVPRAPRDPRVPRDPRDPRQPRSPREPRSPREPRSPREPRTPRTPREPRTARGSV |
| 3258 | sp|Q3TLD5|RMP\_MOUSE | MEPPSEPEPEPQPLAEASAAAPLRAPEVARLREEQEKVVTNCQEKIQHWEKVDNDYSALQERLRTLPDKLSYDVMVPFGPLAFMPGKLVHTNEVTVLLGDNWFAKCSAKQAVGLVEHRKEHVRKTIDDFKKVLKNFESRVEFTEDLQKMSDAAGDFVDIREEIKSDFEFKGKQRIAHKPHSKPKTSDIFEADFENGVKPKNTFDADELWARLEELERQEELLGELESKPDTVIANGEDRVSSEEEKEGADTGVNVVSPVTDSSAASSCKRRAGNAGLPNGQVNSLNYSVNGSNSYHSNKDDDEEEEDDDDDDDEDDDNESDHAISADNSIPTIYFSHTVEPKRVRINTGKNTTLKFSEKKEEAKRKRKSGAGSHATHELPAIKSPADIYRVFVDVVNGEYVPRKSILKSRSRENSVCSDTSESSAADVEDRRGLLRSTSSEEAVATEAGGSSLDELQENHPKKPLPSGVSEAFSGTVIEKEFLSPSLAPYSAIAHHALPTIPERKEVPSEVSEEPTKRVSKFRAARLQQRS |
| 3259 | sp|Q96D59|RN183\_HUMAN | MAEQQGRELEAECPVCWNPFNNTFHTPKMLDCCHSFCVECLAHLSLVTPARRRLLCPLCRQPTVLASGQPVTDLPTDTAMLALLRLEPHHVILEGHQLCLKDQPKSRYFLRQPQVYTLDLGPQPGGQTGPPPDTASATVSTPILIPSHHSLRECFRNPQFRIFAYLMAVILSVTLLLIFSIFWTKQFLWGVG |
| 3260 | sp|O94763|RMP\_HUMAN | MEAPTVETPPDPSPPSAPAPALVPLRAPDVARLREEQEKVVTNCQERIQHWKKVDNDYNALRERLSTLPDKLSYNIMVPFGPFAFMPGKLVHTNEVTVLLGDNWFAKCSAKQAVGLVEHRKEHVRKTIDDLKKVMKNFESRVEFTEDLQKMSDAAGDIVDIREEIKCDFEFKAKHRIAHKPHSKPKTSDIFEADIANDVKSKDLLADKELWARLEELERQEELLGELDSKPDTVIANGEDTTSSEEEKEDRNTNVNAMHQVTDSHTPCHKDVASSEPFSGQVNSQLNCSVNGSSSYHSDDDDDDDDDDDDDNIDDDDGDNDHEALGVGDNSIPTIYFSHTVEPKRVRINTGKNTTLKFSEKKEEAKRKRKNSTGSGHSAQELPTIRTPADIYRAFVDVVNGEYVPRKSILKSRSRENSVCSDTSESSAAEFDDRRGVLRSISCEEATCSDTSESILEEEPQENQKKLLPLSVTPEAFSGTVIEKEFVSPSLTPPPAIAHPALPTIPERKEVLLEASEETGKRVSKFKAARLQQKD |
| 3261 | sp|P62917|RL8\_HUMAN | MGRVIRGQRKGAGSVFRAHVKHRKGAARLRAVDFAERHGYIKGIVKDIIHDPGRGAPLAKVVFRDPYRFKKRTELFIAAEGIHTGQFVYCGKKAQLNIGNVLPVGTMPEGTIVCCLEEKPGDRGKLARASGNYATVISHNPETKKTRVKLPSGSKKVISSANRAVVGVVAGGGRIDKPILKAGRAYHKYKAKRNCWPRVRGVAMNPVEHPFGGGNHQHIGKPSTIRRDAPAGRKVGLIAARRTGRLRGTKTVQEKEN |
| 3262 | sp|P47962|RL5\_MOUSE | MGFVKVVKNKAYFKRYQVRFRRRREGKTDYYARKRLVIQDKNKYNTPKYRMIVRVTNRDIICQIAYARIEGDMIVCAAYAHELPKYGVKVGLTNYAAAYCTGLLLARRLLNRFGMDKIYEGQVEVNGGEYNVESIDGQPGAFTCYLDAGLARTTTGNKVFGALKGAVDGGLSIPHSTKRFPGYDSESKEFNAEVHRKHIMGQNVADYMRYLMEEDEDAYKKQFSQYIKNNVTPDMMEEMYKKAHAAIRENPVYEKKPKREVKKKRWNRPKMSLAQKKDRVAQKKASFLRAQERAAES |
| 3263 | sp|Q684P5|RPGP2\_HUMAN | MFGRKRSVSFGGFGWIDKTMLASLKVKKQELANSSDATLPDRPLSPPLTAPPTMKSSEFFEMLEKMQGIKLEEQKPGPQKNKDDYIPYPSIDEVVEKGGPYPQVILPQFGGYWIEDPENVGTPTSLGSSICEEEEEDNLSPNTFGYKLECKGEARAYRRHFLGKDHLNFYCTGSSLGNLILSVKCEEAEGIEYLRVILRSKLKTVHERIPLAGLSKLPSVPQIAKAFCDDAVGLRFNPVLYPKASQMIVSYDEHEVNNTFKFGVIYQKARQTLEEELFGNNEESPAFKEFLDLLGDTITLQDFKGFRGGLDVTHGQTGVESVYTTFRDREIMFHVSTKLPFTDGDAQQLQRKRHIGNDIVAIIFQEENTPFVPDMIASNFLHAYIVVQVETPGTETPSYKVSVTAREDVPTFGPPLPSPPVFQKGPEFREFLLTKLTNAENACCKSDKFAKLEDRTRAALLDNLHDELHAHTQAMLGLGPEEDKFENGGHGGFLESFKRAIRVRSHSMETMVGGQKKSHSGGIPGSLSGGISHNSMEVTKTTFSPPVVAATVKNQSRSPIKRRSGLFPRLHTGSEGQGDSRARCDSTSSTPKTPDGGHSSQEIKSETSSNPSSPEICPNKEKPFMKLKENGRAISRSSSSTSSVSSTAGEGEAMEEGDSGGSQPSTTSPFKQEVFVYSPSPSSESPSLGAAATPIIMSRSPTDAKSRNSPRSNLKFRFDKLSHASSGAGH |
| 3264 | sp|Q925F4|RNF37\_MOUSE | MVVNLCLPQFRPRIHCNKVSADGYEVENLISEDLIKRSHGFRTEYFIRPPIYVTVSFPFNVEICRVNIDLTTGGYQNVSGLELYTSALSSRVSQDAQDCWTTGPVETSVPDKEAFTLVGKVLLKNQNHVVFSHRGFKARPPFSPMEVTLLSPAVVAQELWNKGALSLSHVAHLKIGITHVTGSGISCIKRLEVWGQPARTCSQEVINSVLLIASESLPQDLDLHAPALPMESDCDPGGQSESQHSPCTLQDMSEVESDVPEEFLDPITLEIMPCPMLLPSGKVIDQSTLEKCNLSEAAWGRVPSDPFTGLAFTPQSQPLPHPSLKARIDRFLLQHSISGCRLLGRAQTPSAMTPSVITLPSRKRKTEQAEHSSHYSLGMSASSSATSPLFSPTTSEPTAKKMKATSELGLTDMDCSAGPVSHEQKLAQSLEIALTSTLGSMPSFTARLTKGQLQLGTRGSSACRRPASSSEHPRSVSGPECASCKQAFSSYSTNEPVYQLPCGHLLCRPCLSEKQRSQPMMCTACRQPVTSQDVLRVHF |
| 3265 | sp|P32561|RPD3\_YEAST | MVYEATPFDPITVKPSDKRRVAYFYDADVGNYAYGAGHPMKPHRIRMAHSLIMNYGLYKKMEIYRAKPATKQEMCQFHTDEYIDFLSRVTPDNLEMFKRESVKFNVGDDCPVFDGLYEYCSISGGGSMEGAARLNRGKCDVAVNYAGGLHHAKKSEASGFCYLNDIVLGIIELLRYHPRVLYIDIDVHHGDGVEEAFYTTDRVMTCSFHKYGEFFPGTGELRDIGVGAGKNYAVNVPLRDGIDDATYRSVFEPVIKKIMEWYQPSAVVLQCGGDSLSGDRLGCFNLSMEGHANCVNYVKSFGIPMMVVGGGGYTMRNVARTWCFETGLLNNVVLDKDLPYNEYYEYYGPDYKLSVRPSNMFNVNTPEYLDKVMTNIFANLENTKYAPSVQLNHTPRDAEDLGDVEEDSAEAKDTKGGSQYARDLHVEHDNEFY |
| 3266 | sp|P62854|RS26\_HUMAN | MTKKRRNNGRAKKGRGHVQPIRCTNCARCVPKDKAIKKFVIRNIVEAAAVRDISEASVFDAYVLPKLYVKLHYCVSCAIHSKVVRNRSREARKDRTPPPRFRPAGAAPRPPPKPM |
| 3267 | sp|O13516|RS9A\_YEAST | MPRAPRTYSKTYSTPKRPYESSRLDAELKLAGEFGLKNKKEIYRISFQLSKIRRAARDLLTRDEKDPKRLFEGNALIRRLVRVGVLSEDKKKLDYVLALKVEDFLERRLQTQVYKLGLAKSVHHARVLITQRHIAVGKQIVNIPSFMVRLDSEKHIDFAPTSPFGGARPGRVARRNAARKAEASGEAADEADEADEE |
| 3268 | sp|Q03124|RSC9\_YEAST | MNSLASNTPLNGTPVSEAPATSSEPVNMFETMVANPIKVSRLQSNGVLTGPAANTKSIHYSLANFNVFQSLPKETARGVDDLTRMEMALLSGIPEEIKWSLKKYLTYSNKAPYMISLRTLPDLLPLFKTFILPLERIVEGLNKSSICDSKAMDSLQMGLNALLILRNLAQDTDSVQILVKDREIKSFILFILKKFQCVATGDNKWQLYEGNATFFNELTHYTLDLMEAISSYIAPAMKDDHYFQTLVSILNYTKDRYMVISILRSLSRLLVRSKANEESAADNLDHKTLSLIVSFLLLECDSELIIASLDFLYQYILPGSQRITELFKSKECSLILEATLPNLLSYNIATPDYHLLQKHKIRLIKRLKPPAPKEPPNLSEDLFQQLFKLNEPLRSTAWLRCCFEPVQEAEFTQISLWRSYESKFGQPVRESGRKLLPAVEFIKNVSNAFNNAAAIVITDPVTGKKRFVIKGIQPRFKALGIADGERESQVPISALKSKFLNDSKEITPARQNSIPEVKFPQELSDVSKVACTFLCLLSNDTDDGAGSAFCQRIRPLVLHKLADIPPLTLALSEYMENTSGL |
| 3269 | sp|Q9BXS9|S26A6\_HUMAN | MGLADASGPRDTQALLSATQAMDLRRRDYHMERPLLNQEHLEELGRWGSAPRTHQWRTWLQCSRARAYALLLQHLPVLVWLPRYPVRDWLLGDLLSGLSVAIMQLPQGLAYALLAGLPPVFGLYSSFYPVFIYFLFGTSRHISVGTFAVMSVMVGSVTESLAPQALNDSMINETARDAARVQVASTLSVLVGLFQVGLGLIHFGFVVTYLSEPLVRGYTTAAAVQVFVSQLKYVFGLHLSSHSGPLSLIYTVLEVCWKLPQSKVGTVVTAAVAGVVLVVVKLLNDKLQQQLPMPIPGELLTLIGATGISYGMGLKHRFEVDVVGNIPAGLVPPVAPNTQLFSKLVGSAFTIAVVGFAIAISLGKIFALRHGYRVDSNQELVALGLSNLIGGIFQCFPVSCSMSRSLVQESTGGNSQVAGAISSLFILLIIVKLGELFHDLPKAVLAAIIIVNLKGMLRQLSDMRSLWKANRADLLIWLVTFTATILLNLDLGLVVAVIFSLLLVVVRTQMPHYSVLGQVPDTDIYRDVAEYSEAKEVRGVKVFRSSATVYFANAEFYSDALKQRCGVDVDFLISQKKKLLKKQEQLKLKQLQKEEKLRKQAASPKGASVSINVNTSLEDMRSNNVEDCKMMQVSSGDKMEDATANGQEDSKAPDGSTLKALGLPQPDFHSLILDLGALSFVDTVCLKSLKNIFHDFREIEVEVYMAACHSPVVSQLEAGHFFDASITKKHLFASVHDAVTFALQHPRPVPDSPVSVTRL |
| 3270 | sp|Q07794|RT109\_YEAST | MSLNDFLSSVLPVSEQFEYLSLQSIPLETHAVVTPNKDDKRVPKSTIKTQHFFSLFHQGKVFFSLEVYVYVTLWDEADAERLIFVSKADTNGYCNTRVSVRDITKIILEFILSIDPNYYLQKVKPAIRSYKKISPELISAASTPARTLRILARRLKQSGSTVLKEIESPRFQQDLYLSFTCPREILTKICLFTRPASQYLFPDSSKNSKKHILNGEELMKWWGFILDRLLIECFQNDTQAKLRIPGEDPARVRSYLRGMKYPLWQVGDIFTSKENSLAVYNIPLFPDDPKARFIHQLAEEDRLLKVSLSSFWIELQERQEFKLSVTSSVMGISGYSLATPSLFPSSADVIVPKSRKQFRAIKKYITGEEYDTEEGAIEAFTNIRDFLLLRMATNLQSLTGKREHRERNQPVPASNINTLAITMLKPRKKAKALPKT |
| 3271 | sp|O43511|S26A4\_HUMAN | MAAPGGRSEPPQLPEYSCSYMVSRPVYSELAFQQQHERRLQERKTLRESLAKCCSCSRKRAFGVLKTLVPILEWLPKYRVKEWLLSDVISGVSTGLVATLQGMAYALLAAVPVGYGLYSAFFPILTYFIFGTSRHISVGPFPVVSLMVGSVVLSMAPDEHFLVSSSNGTVLNTTMIDTAARDTARVLIASALTLLVGIIQLIFGGLQIGFIVRYLADPLVGGFTTAAAFQVLVSQLKIVLNVSTKNYNGVLSIIYTLVEIFQNIGDTNLADFTAGLLTIVVCMAVKELNDRFRHKIPVPIPIEVIVTIIATAISYGANLEKNYNAGIVKSIPRGFLPPELPPVSLFSEMLAASFSIAVVAYAIAVSVGKVYATKYDYTIDGNQEFIAFGISNIFSGFFSCFVATTALSRTAVQESTGGKTQVAGIISAAIVMIAILALGKLLEPLQKSVLAAVVIANLKGMFMQLCDIPRLWRQNKIDAVIWVFTCIVSIILGLDLGLLAGLIFGLLTVVLRVQFPSWNGLGSIPSTDIYKSTKNYKNIEEPQGVKILRFSSPIFYGNVDGFKKCIKSTVGFDAIRVYNKRLKALRKIQKLIKSGQLRATKNGIISDAVSTNNAFEPDEDIEDLEELDIPTKEIEIQVDWNSELPVKVNVPKVPIHSLVLDCGAISFLDVVGVRSLRVIVKEFQRIDVNVYFASLQDYVIEKLEQCGFFDDNIRKDTFFLTVHDAILYLQNQVKSQEGQGSILETITLIQDCKDTLELIETELTEEELDVQDEAMRTLAS |
| 3272 | sp|Q9HAS3|S28A3\_HUMAN | MELRSTAAPRAEGYSNVGFQNEENFLENENTSGNNSIRSRAVQSREHTNTKQDEEQVTVEQDSPRNREHMEDDDEEMQQKGCLERRYDTVCGFCRKHKTTLRHIIWGILLAGYLVMVISACVLNFHRALPLFVITVAAIFFVVWDHLMAKYEHRIDEMLSPGRRLLNSHWFWLKWVIWSSLVLAVIFWLAFDTAKLGQQQLVSFGGLIMYIVLLFLFSKYPTRVYWRPVLWGIGLQFLLGLLILRTDPGFIAFDWLGRQVQTFLEYTDAGASFVFGEKYKDHFFAFKVLPIVVFFSTVMSMLYYLGLMQWIIRKVGWIMLVTTGSSPIESVVASGNIFVGQTESPLLVRPYLPYITKSELHAIMTAGFSTIAGSVLGAYISFGVPSSHLLTASVMSAPASLAAAKLFWPETEKPKITLKNAMKMESGDSGNLLEAATQGASSSISLVANIAVNLIAFLALLSFMNSALSWFGNMFDYPQLSFELICSYIFMPFSFMMGVEWQDSFMVARLIGYKTFFNEFVAYEHLSKWIHLRKEGGPKFVNGVQQYISIRSEIIATYALCGFANIGSLGIVIGGLTSMAPSRKRDIASGAVRALIAGTVACFMTACIAGILSSTPVDINCHHVLENAFNSTFPGNTTKVIACCQSLLSSTVAKGPGEVIPGGNHSLYSLKGCCTLLNPSTFNCNGISNTF |
| 3273 | sp|P28700|RXRA\_MOUSE | MDTKHFLPLDFSTQVNSSSLNSPTGRGSMAVPSLHPSLGPGIGSPLGSPGQLHSPISTLSSPINGMGPPFSVISSPMGPHSMSVPTTPTLGFGTGSPQLNSPMNPVSSTEDIKPPLGLNGVLKVPAHPSGNMASFTKHICAICGDRSSGKHYGVYSCEGCKGFFKRTVRKDLTYTCRDNKDCLIDKRQRNRCQYCRYQKCLAMGMKREAVQEERQRGKDRNENEVESTSSANEDMPVEKILEAELAVEPKTETYVEANMGLNPSSPNDPVTNICQAADKQLFTLVEWAKRIPHFSELPLDDQVILLRAGWNELLIASFSHRSIAVKDGILLATGLHVHRNSAHSAGVGAIFDRVLTELVSKMRDMQMDKTELGCLRAIVLFNPDSKGLSNPAEVEALREKVYASLEAYCKHKYPEQPGRFAKLLLRLPALRSIGLKCLEHLFFFKLIGDTPIDTFLMEMLEAPHQAT |
| 3274 | sp|Q9Y3V2|RWDD3\_HUMAN | MAEPVQEELSVLAAIFCRPHEWEVLSRSETDGTVFRIHTKAEGFMDVDIPLELVFHLPVNYPSCLPGISINSEQLTRAQCVTVKENLLEQAESLLSEPMVHELVLWIQQNLRHILSQPETGSGSEKCTFSTSTTMDDGLWITLLHLDHMRAKTKYVKIVEKWASDLRLTGRLMFMGKIILILLQGDRNNLKEYLILQKTSKVDVDSSGKKCKEKMISVLFETKVQTEHKRFLAFEVKEYSALDELQKEFETAGLKKLFSEFVLALVK |
| 3275 | sp|Q9DDK4|S1PR1\_DANRE | MDDLIARHYNFTGKFRKVHKDPGLKADSVVFIIVCCFIILENVLVLLTIWRTKKFHKPMYYFIGNLALSDLLAGVVYTANILLSGANTYKLTPTQWFFREGSMFVALAASVFSLLAIAIERHLTMLKMKLHNNGKTCRVFMLISTVWFIAAILGGLPVMGWNCIDSMNNCSTVLPLYHKAYILFCTTVFSVILMAIVILYARIYALVRTRSRKLVFRKVANGRGSNKSSEKSMALLKTVIIVLSCFIACWAPLFILLLLDVACQTLTCSILYKAEWFLALAVLNSAMNPLIYTLTSNEMRRAFIKMLNCGVCVQPSGKFSRPIMGAEFSRSKSDNSSHPNKDEPEYSPRETIVSSGNITSSS |
| 3276 | sp|P38990|SAK1\_YEAST | MDRSDKKVNVEEVNVPSNLQIELEKSGTSSSVSLRSPTKSSATNLAGMAEGARDNASIASSSVDSLNMLLERQRVRQLNHPQHQQHISSSLAKTPTTTSSFCSSGSSKNKVKETNRISLTYDPVSKRKVLNTYEIIKELGHGQHGKVKLARDILSKQLVAIKIVDRHEKKQRKFFTFIKSSKISENDKIKREIAIMKKCHHKHVVQLIEVLDDLKSRKIYLVLEYCSRGEVKWCPPDCMESDAKGPSLLSFQETREILRGVVLGLEYLHYQGIIHRDIKPANLLISGDGTVKISDFGVSLAASSTNSSDSSESLDELELAKTVGTPAFFAPEMCLGEDAFTRYNLTKENLFRGSCISFMIDIWAVGVTLYCLLFGMLPFFSDFELKLFEKIVNDPLKFPTFKEIQSNKVSKVSCEEEYEMAKDLLLKLLEKNPQKRMTIPAIKKHPFVSWDFDHVPENDEKLLSSVLEQKLRFQCNQTDQFEPISISKHELKNAVSGVGKKIKESVLKSIPLKDPSDLSNKNYLHPTETTRGRGDANVIVSEGSVLSNIKELSANDGCLNTDSDTNININDDDHYSGDDNDGHLTKRELERELNKFDDKHEAGNMVNLPINSSFASLDSFYIDNFAMARMGMSSPEAGDSVSSVPNLPSAPSSTRLGRSPVFSGVTNQPSPIRPVLPQQKSSFCATGRYDKSHNSLLRNSSSHLTSYNSGRPSSRTGRMNSRNQNLPKIPNSLSKISTTKLTELRVPKDSEIPSPAKNPNADRLRRFPVKKNTKTPAIKDPPRININSSDKSGSKNSPIKSLYQRMKQSKDNSKTFEVRRGNFFSHFNGDDDDSSSQSSVTSSGSESDSELSSTSSSCTSGTQSRNSSNNNAYSETESLPFEFGVDSEDGSGVLLRDLPNEDQIRPFLDIQPCRRMKVKSSLNLEPPSVSSSSSSSSDEDELILNVGTAGHRRRHNSSKLSELSNSPQKGSNNFMYSNGSVHDSETTITPQNMDDLTLHQALSRSQPISKPGPLVLPKRLDQKKATTETSNLTDIVEFNGNNDHRKDKNFDKVLYSRDLLKDALSSTNAGRRRSIPSNKIRGRKDASITMSTNVGNDEHARNTSCHGDKGQENGAIKQRTHERSRSLTVAELNEEKRRSALP |
| 3277 | sp|P21453|S1PR1\_HUMAN | MGPTSVPLVKAHRSSVSDYVNYDIIVRHYNYTGKLNISADKENSIKLTSVVFILICCFIILENIFVLLTIWKTKKFHRPMYYFIGNLALSDLLAGVAYTANLLLSGATTYKLTPAQWFLREGSMFVALSASVFSLLAIAIERYITMLKMKLHNGSNNFRLFLLISACWVISLILGGLPIMGWNCISALSSCSTVLPLYHKHYILFCTTVFTLLLLSIVILYCRIYSLVRTRSRRLTFRKNISKASRSSEKSLALLKTVIIVLSVFIACWAPLFILLLLDVGCKVKTCDILFRAEYFLVLAVLNSGTNPIIYTLTNKEMRRAFIRIMSCCKCPSGDSAGKFKRPIIAGMEFSRSKSDNSSHPQKDEGDNPETIMSSGNVNSSS |
| 3278 | sp|P40995|SCD1\_SCHPO | MAYFQDRKTSSRSLPSYINHSTQNLVGPRKDETNLSEYMKLRLLQSPSQVIYNLENTVSLYRRCLNLRKRLMDISELAAFFDSIHREALNSSFKILEFKDIEFDDPVTEIWLFCRLGYPLCALFNCLPVKQKLEVNSSVSLENTNVCKASLYRFMLMCKNELGLTDAALFSISEIYKPSTAPLVRALQTIELLLKKYEVSNTTKSSSTPSPSTDDNVPTGTLNSLIASGRRVTAELYETELKYIQDLEYLSNYMVILQQKQILSQDTILSIFTNLNEILDFQRRFLVGLEMNLSLPVEEQRLGALFIALEEGFSVYQVFCTNFPNAQQLIIDNQNQLLKVANLLEPSYELPALLIKPIQRICKYPLLLNQLLKGTPSGYQYEEELKQGMACVVRVANQVNETRRIHENRNAIIELEQRVIDWKGYSLQYFGQLLVWDVVNVCKADIEREYHVYLFEKILLCCKEMSTLKRQARSISMNKKTKRLDSLQLKGRILTSNITTVVPNHHMGSYAIQIFWRGDPQHESFILKLRNEESHKLWMSVLNRLLWKNEHGSPKDIRSAASTPANPVYNRSSSQTSKGYNSSDYDLLRTHSLDENVNSPTSISSPSSKSSPFTKTTSKDTKSATTTDERPSDFIRLNSEESVGTSSLRTSQTTSTIVSNDSSSTASIPSQISRISQVNSLLNDYNYNRQSHITRVYSGTDDGSSVSIFEDTSSSTKQKIFDQPTTNDCDVMRPRQYSYSAGMKSDGSLLPSTKHTSLSSSSTSTSLSVRNTTNVKIRLRLHEVSLVLVVAHDITFDELLAKVEHKIKLCGILKQAVPFRVRLKYVDEDGDFITITSDEDVLMAFETCTFELMDPVHNKGMDTVSLHVVVYF |
| 3279 | sp|P17133|RU17\_DROME | MTQYLPPNLLALFAAREPIPFMPPVDKLPHEKKSRGYLGVAKFMADFEDPKDTPLPKTVETRQERLERRRREKAEQVAYKLEREIALWDPTEIKNATEDPFRTLFIARINYDTSESKLRREFEFYGPIKKIVLIHDQESGKPKGYAFIEYEHERDMHAAYKHADGKKIDSKRVLVDVERARTVKGWLPRRLGGGLGGTRRGGNDVNIKHSGREDNERERERYRLEREREDREGPGRGGGSNGLDARPGRGFGAERRRSRSRERRDRERDRGRGAVASNGRSRSRSRERRKRRAGSRERYDEFDRRDRRDRERERDRDREREKKKKRSKSRERESSRERRERKRERRDRERGTGSGGDVKERKPDFRDMDVIKIKEEPVDDGYPTFDYQNATIKREIDDEDEEKYRPPPAHHNMFSVPPPPILGRGNASTNPNPDNGQQSSGDPSWWRQ |
| 3280 | sp|Q04002|SCC2\_YEAST | MSYPGKDKNIPGRIIEALEDLPLSYLVPKDGLAALVNAPMRVSLPFDKTIFTSADDGRDVNINVLGTANSTTSSIKNEAEKERLVFKRPSNFTSSANSVDYVPTNFLEGLSPLAQSVLSTHKGLNDSINIEKKSEIVSRPEAKHKLESVTSNAGNLSFNDNSSNKKTKTSTGVTMTQANLAEQYLNDLKNILDIVGFDQNSAEIGNIEYWLQLPNKKFVLTTNCLTKLQMTIKNITDNPQLSNSIEITWLLRLLDVMVCNIKFSKSSLKMGLDDSMLRYIALLSTIVLFNIFLLGKNDSNLHRESYIMEPVNFLSDLIESLKILTIEYGSLKIEFDTFQEALELLPKYIRNGPFLDDNVTAKLVYIFSDLLMNNDIEATTNIQFQSFWDNVKRISSDILVSLFGSFDQQRGFIIEELLSHIEKLPTKRIQKKLRKVGNQNIYITDFTFTLMSMLENINCYSFCNQMKDIAPENIDLLKNEYKKQEEFLFNIVEHINDTILERFFKNPSALRYVIDNFVQDLLLLISSPQWPVTEKILSSLLKRLLSVYSPSMQVSANIETICLQLIGNIGSTIFDIKCSTRDHEDNNLIKMINYPETLPHFFKSFEECIAYNETIKCRRSATRFLWNLRLGTILILEEYTKDAKEQIITVDNELKKILEQIKDGGLGPELENREADFSTIKLDYFSILHAFELLNLYDPYLKLILSLLAKDKIKLRSTAIKCLSMLASKDKVILSNPMVKETIHRRLNDSSASVKDAILDLVSINSSYFEFYQQINNNYNDDSIMVRKHVLRINEKMYDETNDIVTKVYVIARILMKIEDEEDNIIDMARLILLNRWILKVHEVLDQPEKLKEISSSVLLVMSRVAIMNEKCSQLFDLFLNFYLLNKEAHSKEAYDKITHVLTILTDFLVQKIVELNSDDTNEKNSIVDKQNFLNLLAKFADSTVSFLTKDHITALYPYMVSDEKSDFHYYILQVFRCTFEKLANFKQKFLYDLETTLLSRLPKMNVREIDEAMPLIWSVATHRHDTARVAKACSSCLSHLHPYINKANNEEAAIVVDGKLQRLIYLSTGFARFCFPKPSNDKIAFLQEGETLYEHITKCLLVLSKDKITHVIRRVAVKNLTKLCGNHPKLFNSRHVLHLLDKEFQSDQLDIKLVILESLYDLFLLEERKSVRNTGVNSTLSSNSILKKKLLKTNRVEFANDGVCSALATRFLDNILQLCLLRDLKNSLVAIRLLKLILKFGYTNPSHSIPTVIALFASTSQYIRHVAYELLEDLFEKYETLVFSSLSRGVTKAIHYSIHTDEKYYYKHDHFLSLLEKLCGTGKKNGPKFFKVLKRIMQSYLDDITDLTSTNSSVQKSIFVLCTNISNITFVSQYDLVSLLKTIDLTTDRLKEVIMDEIGDNVSSLSVSEEKLSGIILIQLSLQDLGTYLLHLYGLRDDVLLLDIVEESELKNKQLPAKKPDISKFSAQLENIEQYSSNGKLLTYFRKHVKDT |
| 3281 | sp|Q92504|S39A7\_HUMAN | MARGLGAPHWVAVGLLTWATLGLLVAGLGGHDDLHDDLQEDFHGHSHRHSHEDFHHGHSHAHGHGHTHESIWHGHTHDHDHGHSHEDLHHGHSHGYSHESLYHRGHGHDHEHSHGGYGESGAPGIKQDLDAVTLWAYALGATVLISAAPFFVLFLIPVESNSPRHRSLLQILLSFASGGLLGDAFLHLIPHALEPHSHHTLEQPGHGHSHSGQGPILSVGLWVLSGIVAFLVVEKFVRHVKGGHGHSHGHGHAHSHTRGSHGHGRQERSTKEKQSSEEEEKETRGVQKRRGGSTVPKDGPVRPQNAEEEKRGLDLRVSGYLNLAADLAHNFTDGLAIGASFRGGRGLGILTTMTVLLHEVPHEVGDFAILVQSGCSKKQAMRLQLLTAVGALAGTACALLTEGGAVGSEIAGGAGPGWVLPFTAGGFIYVATVSVLPELLREASPLQSLLEVLGLLGGVIMMVLIAHLE |
| 3282 | sp|B2RYN7|SPAST\_RAT | MSSPAGRRKKKGSGGASPAPARPPPPAAVPAPAAGPAPAPGSPHKRNLYYFSYPLVVGFALLRLLACHLGLLFVWLCQRFSRALMAAKRSSGTAPAPASPSTPAPGPGGEAESVRVFHKQAFEYISIALRIDEEEKGQKEQAVEWYKKGIEELEKGIAVIVTGQGEQYERARRLQAKMMTNLVMAKDRLQLLESGAVPKKKDPLTHASNSLPRSKTVMKSGSTGLSGHHRAPSCSGLSMVSGARPGSGPAATTHKGTSKPNRTNKPSTPTTAVRKKKDLKNFRNVDSNLANLIMNEIVDNGTAVKFDDIAGQELAKQALQEIVILPSLRPELFTGLRAPARGLLLFGPPGNGKTMLAKAVAAESNATFFNISAASLTSKYVGEGEKLVRALFAVARELQPSIIFIDEVDSLLCERREGEHDASRRLKTEFLIEFDGVQSAGDDRVLVMGATNRPQELDEAVLRRFIKRVYVSLPNEETRLLLLKNLLCKQGSPLTQKELAQLARMTDGYSGSDLTALAKDAALGPIRELKPEQVKNMSASEMRNIRLSDFTESLKKIKRSVSPQTLEAYIRWNKDFGDTTV |
| 3283 | sp|O23530|SNC1\_ARATH | MMDTSKDDDMEIASSSGSRRYDVFPSFRGEDVRDSFLSHLLKELRGKAITFIDDEIERSRSIGPELLSAIKESRIAIVIFSKNYASSTWCLNELVEIHKCYTNLNQMVIPIFFHVDASEVKKQTGEFGKVFEETCKAKSEDEKQSWKQALAAVAVMAGYDLRKWPSEAAMIEELAEDVLRKTMTPSDDFGDLVGIENHIEAIKSVLCLESKEARIMVGIWGQSGIGKSTIGRALYSKLSIQFHHRAFITYKSTSGSDVSGMKLRWEKELLSEILGQKDIKIEHFGVVEQRLKQQKVLILLDDVDSLEFLKTLVGKAEWFGSGSRIIVITQDRQLLKAHEIDLIYEVEFPSEHLALTMLCRSAFGKDSPPDDFKELAFEVAKLAGNLPLGLSVLGSSLKGRTKEWWMEMMPRLRNGLNGDIMKTLRVSYDRLHQKDQDMFLYIACLFNGFEVSYVKDLLKDNVGFTMLTEKSLIRITPDGYIEMHNLLEKLGREIDRAKSKGNPGKRRFLTNFEDIHEVVTEKTGTETLLGIRLPFEEYFSTRPLLIDKESFKGMRNLQYLEIGYYGDLPQSLVYLPLKLRLLDWDDCPLKSLPSTFKAEYLVNLIMKYSKLEKLWEGTLPLGSLKEMNLRYSNNLKEIPDLSLAINLEELDLVGCKSLVTLPSSIQNATKLIYLDMSDCKKLESFPTDLNLESLEYLNLTGCPNLRNFPAIKMGCSDVDFPEGRNEIVVEDCFWNKNLPAGLDYLDCLTRCMPCEFRPEQLAFLNVRGYKHEKLWEGIQSLGSLEGMDLSESENLTEIPDLSKATKLESLILNNCKSLVTLPSTIGNLHRLVRLEMKECTGLEVLPTDVNLSSLETLDLSGCSSLRSFPLISTNIVWLYLENTAIEEIPSTIGNLHRLVRLEMKKCTGLEVLPTDVNLSSLETLDLSGCSSLRSFPLISESIKWLYLENTAIEEIPDLSKATNLKNLKLNNCKSLVTLPTTIGNLQKLVSFEMKECTGLEVLPIDVNLSSLMILDLSGCSSLRTFPLISTNIVWLYLENTAIEEIPSTIGNLHRLVKLEMKECTGLEVLPTDVNLSSLMILDLSGCSSLRTFPLISTRIECLYLQNTAIEEVPCCIEDFTRLTVLMMYCCQRLKTISPNIFRLTRLELADFTDCRGVIKALSDATVVATMEDHVSCVPLSENIEYIWDKLYRVAYLQEHFSFRNCFKLDRDARELILRSCFKPVALPGEEIPKYFTYRAYGDSLTVIVPQSSLSQNFLRFKACVVVEPLSKGKGFYPFLKVNVGFNGKQYQKSFSKDAELELCKTDHLFFCSFKFRSEDLPSKLNFNDVEFKFCCSNRIKECGVRLMYVSQEENNQQTTRSEKRMRMTSGTSEEDINLPYGLIVADTGLAALNMELSLGQGEPSSSTSLEGEALCVDYMITEEQDKGIPILFPVSGN |
| 3284 | sp|Q8HXQ2|SODC\_MACFU | MAMKAVCVLKGDSPVQGTINFEQKESNGPVKVWGSITGLTEGLHGFHVHQFGDNTQGCTSAGPHFNPLSRQHGGPKDEERHVGDLGNVTAGKDGVAKVSFEDSVISLSGDHSIIGRTLVVHEKADDLGKGGNEESKKTGNAGGRLACGVIGIAQ |
| 3285 | sp|O42649|SMC3\_SCHPO | MYITKIVIQGFKSYKDYTVIEPLSPHHNVIVGRNGSGKSNFFAAIRFVLSDAYTHLSREERQALLHEGPGATVMSAYVEVTFANADNRFPTGKSEVVLRRTIGLKKDEYSLDKKTVSKTEVINLLESAGFSRSNPYYIVPQGRVTSLTNAKDSERLELLKEVAGTQIYENRRAESNKIMDETIQKSEKIDELLQYIEERLRELEEEKNDLAVYHKKDNERRCLEYAIYSREHDEINSVLDALEQDRIAALERNDDDSGAFIQREERIERIKAEITELNHSLELLRVEKQQNDEDYTNIMKSKVALELQSSQLSRQIEFSKKDESSKLNILSELESKISEKENELSEILPKYNAIVSEADDLNKRIMLLKNQKQSLLDKQSRTSQFTTKKERDEWIRNQLLQINRNINSTKENSDYLKTEYDEMENELKAKLSRKKEIEISLESQGDRMSQLLANITSINERKENLTDKRKSLWREEAKLKSSIENVKDDLSRSEKALGTTMDRNTSNGIRAVKDIAERLKLEGYYGPLCELFKVDNRFKVAVEATAGNSLFHIVVDNDETATQILDVIYKENAGRVTFMPLNKLRPKAVTYPDASDALPLIQYLEFDPKFDAAIKQVFSKTIVCPSIETASQYARSHQLNGITLSGDRSDKKGALTAGYRDYRNSRLDAIKNVKTYQIKFSDLQESLEKCRSEIESFDQKITACLDDLQKAQLSLKQFERDHIPLKDELVTITGETTDLQESMHHKSRMLELVVLELHTLEQQANDLKSELSSEMDELDPKDVEALKSLSGQIENLSHEFDAIIKERAHIEARKTALEYELNTNLYLRRNPLKAEIGSDNRIDESELNSVKRSLLKYENKLQIIKSSSSGLEEQMQRINSEISDKRNELESLEELQHEVATRIEQDAKINERNAAKRSLLLARKKECNEKIKSLGVLPEEAFIKYVSTSSNAIVKKLHKINEALKDYGSVNKKAYEQFNNFTKQRDSLLARREELRRSQESISELTTVLDQRKDEAIERTFKQVAKSFSEIFVKLVPAGRGELVMNRRSELSQSIEQDISMDIDTPSQKSSIDNYTGISIRVSFNSKDDEQLNINQLSGGQKSLCALTLIFAIQRCDPAPFNILDECDANLDAQYRSAIAAMVKEMSKTSQFICTTFRPEMVKVADNFYGVMFNHKVSTVESISKEEAMAFVEG |
| 3286 | sp|Q9SEU4|SRC33\_ARATH | MRGRSYTPSPPRGYGRRGRSPSPRGRYGGRSRDLPTSLLVRNLRHDCRQEDLRKSFEQFGPVKDIYLPRDYYTGDPRGFGFVQFMDPADAADAKHHMDGYLLLGRELTVVFAEENRKKPTEMRARERGGGRFRDRRRTPPRYYSRSRSPPPRRGRSRSRSGDYYSPPPRRHHPRSISPREERYDGRRSYSRSPASDGSRGRSLTPVRGKSRSLSPSPRRSISRSPRRSRSPSPKRNRSVSPRRSISRSPRRSRSPRRSRRSYTPEPARSRSQSPHGGQYDEDRSPSQ |
| 3287 | sp|P35713|SOX18\_HUMAN | MQRSPPGYGAQDDPPARRDCAWAPGHGAAADTRGLAAGPAALAAPAAPASPPSPQRSPPRSPEPGRYGLSPAGRGERQAADESRIRRPMNAFMVWAKDERKRLAQQNPDLHNAVLSKMLGKAWKELNAAEKRPFVEEAERLRVQHLRDHPNYKYRPRRKKQARKARRLEPGLLLPGLAPPQPPPEPFPAASGSARAFRELPPLGAEFDGLGLPTPERSPLDGLEPGEAAFFPPPAAPEDCALRPFRAPYAPTELSRDPGGCYGAPLAEALRTAPPAAPLAGLYYGTLGTPGPYPGPLSPPPEAPPLESAEPLGPAADLWADVDLTEFDQYLNCSRTRPDAPGLPYHVALAKLGPRAMSCPEESSLISALSDASSAVYYSACISG |
| 3288 | sp|Q9K4M4|SOXA\_PSESE | MTVSKRFLAPVFAMVGGLVLAFSANADPVDEELVIDDIPMVTRAAAPEGHPFDEGLSGWLFREAETRETEADSFANPGMLAVERGADIWNTVEGSAGKSCASCHDDAATSMKNVGAQYPKWDADAKRPINIELQIDKCRVENMGAEPYKFDAEGQVALTSYIKHQSLGTPVKMDLSDGELQDWWEKGKELYYTRTGQLNFACASCHEDSMGKYIRADHLSQGQANGFPTYRFNTGGMVSLHNRFRGCIRDTRAEMPKAFSDELMALEVYVTWRGTGLSVETPAVRQ |
| 3289 | sp|Q06945|SOX4\_HUMAN | MVQQTNNAENTEALLAGESSDSGAGLELGIASSPTPGSTASTGGKADDPSWCKTPSGHIKRPMNAFMVWSQIERRKIMEQSPDMHNAEISKRLGKRWKLLKDSDKIPFIREAERLRLKHMADYPDYKYRPRKKVKSGNANSSSSAAASSKPGEKGDKVGGSGGGGHGGGGGGGSSNAGGGGGGASGGGANSKPAQKKSCGSKVAGGAGGGVSKPHAKLILAGGGGGGKAAAAAAASFAAEQAGAAALLPLGAAADHHSLYKARTPSASASASSAASASAALAAPGKHLAEKKVKRVYLFGGLGTSSSPVGGVGAGADPSDPLGLYEEEGAGCSPDAPSLSGRSSAASSPAAGRSPADHRGYASLRAASPAPSSAPSHASSSASSHSSSSSSSGSSSSDDEFEDDLLDLNPSSNFESMSLGSFSSSSALDRDLDFNFEPGSGSHFEFPDYCTPEVSEMISGDWLESSISNLVFTY |
| 3290 | sp|Q29495|SNAT\_SHEEP | MSTPSVHCLKPSPLHLPSGIPGSPGRQRRHTLPANEFRCLTPEDAAGVFEIEREAFISVSGNCPLNLDEVQHFLTLCPELSLGWFVEGRLVAFIIGSLWDEERLTQESLALHRPRGHSAHLHALAVHRSFRQQGKGSVLLWRYLHHVGAQPAVRRAVLMCEDALVPFYQRFGFHPAGPCAIVVGSLTFTEMHCSLRGHAALRRNSDR |
| 3291 | sp|P48607|SPZ\_DROME | MMTPMWISLFKVLLLLFAFFATYEAKEYERIIKELFTITNDEGVVLFNTSADSAPFMPIPTQHDDPTQKQKQNQNQSPIPETNRHYHQYHSLIQPDQYFKVQRSPNGKLNLVFNDTFVSLQRTDTEVQSEQPIPPRHPSDTFVFPDSPIAKYRPPQSPARPLRNDTKEHNPCAKDESQHLRNFCTNVDDYPDLSGLTHKLKNNFAKFFSNDLQPTDVSSRVGGSDERFLCRSIRKLVYPKKGLRADDTWQLIVNNDEYKQAIQIEECEGADQPCDFAANFPQSYNPICKQHYTQQTLASIKSDGELDVVQNSFKIPSCCKCALKTG |
| 3292 | sp|P12755|SKI\_HUMAN | MEAAAGGRGCFQPHPGLQKTLEQFHLSSMSSLGGPAAFSARWAQEAYKKESAKEAGAAAVPAPVPAATEPPPVLHLPAIQPPPPVLPGPFFMPSDRSTERCETVLEGETISCFVVGGEKRLCLPQILNSVLRDFSLQQINAVCDELHIYCSRCTADQLEILKVMGILPFSAPSCGLITKTDAERLCNALLYGGAYPPPCKKELAASLALGLELSERSVRVYHECFGKCKGLLVPELYSSPSAACIQCLDCRLMYPPHKFVVHSHKALENRTCHWGFDSANWRAYILLSQDYTGKEEQARLGRCLDDVKEKFDYGNKYKRRVPRVSSEPPASIRPKTDDTSSQSPAPSEKDKPSSWLRTLAGSSNKSLGCVHPRQRLSAFRPWSPAVSASEKELSPHLPALIRDSFYSYKSFETAVAPNVALAPPAQQKVVSSPPCAAAVSRAPEPLATCTQPRKRKLTVDTPGAPETLAPVAAPEEDKDSEAEVEVESREEFTSSLSSLSSPSFTSSSSAKDLGSPGARALPSAVPDAAAPADAPSGLEAELEHLRQALEGGLDTKEAKEKFLHEVVKMRVKQEEKLSAALQAKRSLHQELEFLRVAKKEKLREATEAKRNLRKEIERLRAENEKKMKEANESRLRLKRELEQARQARVCDKGCEAGRLRAKYSAQIEDLQVKLQHAEADREQLRADLLREREAREHLEKVVKELQEQLWPRARPEAAGSEGAAELEP |
| 3293 | sp|P52788|SPSY\_HUMAN | MAAARHSTLDFMLGAKADGETILKGLQSIFQEQGMAESVHTWQDHGYLATYTNKNGSFANLRIYPHGLVLLDLQSYDGDAQGKEEIDSILNKVEERMKELSQDSTGRVKRLPPIVRGGAIDRYWPTADGRLVEYDIDEVVYDEDSPYQNIKILHSKQFGNILILSGDVNLAESDLAYTRAIMGSGKEDYTGKDVLILGGGDGGILCEIVKLKPKMVTMVEIDQMVIDGCKKYMRKTCGDVLDNLKGDCYQVLIEDCIPVLKRYAKEGREFDYVINDLTAVPISTSPEEDSTWEFLRLILDLSMKVLKQDGKYFTQGNCVNLTEALSLYEEQLGRLYCPVEFSKEIVCVPSYLELWVFYTVWKKAKP |
| 3294 | sp|P34548|SQV3\_CAEEL | MKLKTRLILSGTILISLAACYFLVLLVLDLEITRDLMTDYVDPRPLQTSYHKLCVIVPYRDRLEELREFSPHMSKFLHNQNVSHHILIINQTDPLRFNRASLINVGWNEADRLGCDYMVMNDVDLLPVNPEVPYDFPGIGVIRHITSPQYHPKYHYEKFIGGILMLTLKDYKKLNGMSNKYWGWGLEDDEFYLRIIDSKLNLTRVSGLSTDSSNTFRHIHGPKRKRDYTPKKNDKNQWEIKRKRDHVSGLHDVRYLIDSRQLLDFSGTSVTIINVALHCDLNWTPYCKS |
| 3295 | sp|P09486|SPRC\_HUMAN | MRAWIFFLLCLAGRALAAPQQEALPDETEVVEETVAEVTEVSVGANPVQVEVGEFDDGAEETEEEVVAENPCQNHHCKHGKVCELDENNTPMCVCQDPTSCPAPIGEFEKVCSNDNKTFDSSCHFFATKCTLEGTKKGHKLHLDYIGPCKYIPPCLDSELTEFPLRMRDWLKNVLVTLYERDEDNNLLTEKQKLRVKKIHENEKRLEAGDHPVELLARDFEKNYNMYIFPVHWQFGQLDQHPIDGYLSHTELAPLRAPLIPMEHCTTRFFETCDLDNDKYIALDEWAGCFGIKQKDIDKDLVI |
| 3296 | sp|Q9WTN3|SRBP1\_MOUSE | MDELAFGEAALEQTLAEMCELDTAVLNDIEDMLQLINNQDSDFPGLFDAPYAGGETGDTGPSSPGANSPESFSSASLASSLEAFLGGPKVTPAPLSPPPSAPAALKMYPSVSPFSPGPGIKEEPVPLTILQPAAPQPSPGTLLPPSFPAPPVQLSPAPVLGYSSLPSGFSGTLPGNTQQPPSSLPLAPAPGVLPTPALHTQVQSLASQQPLPASAAPRTNTVTSQVQQVPVVLQPHFIKADSLLLTAVKTDAGATVKTAGISTLAPGTAVQAGPLQTLVSGGTILATVPLVVDTDKLPIHRLAAGSKALGSAQSRGEKRTAHNAIEKRYRSSINDKIVELKDLVVGTEAKLNKSAVLRKAIDYIRFLQHSNQKLKQENLTLRSAHKSKSLKDLVSACGSGGGTDVSMEGMKPEVVETLTPPPSDAGSPSQSSPLSFGSRASSSGGSDSEPDSPAFEDSQVKAQRLPSHSRGMLDRSRLALCVLAFLCLTCNPLASLFGWGILTPSDATGTHRSSGRSMLEAESRDGSNWTQWLLPPLVWLANGLLVLACLALLFVYGEPVTRPHSGPAVHFWRHRKQADLDLARGDFPQAAQQLWLALQALGRPLPTSNLDLACSLLWNLIRHLLQRLWVGRWLAGQAGGLLRDRGLRKDARASARDAAVVYHKLHQLHAMGKYTGGHLAASNLALSALNLAECAGDAISMATLAEIYVAAALRVKTSLPRALHFLTRFFLSSARQACLAQSGSVPLAMQWLCHPVGHRFFVDGDWAVHGAPPESLYSVAGNPVDPLAQVTRLFREHLLERALNCIAQPSPGAADGDREFSDALGYLQLLNSCSDAAGAPACSFSVSSSMAATTGPDPVAKWWASLTAVVIHWLRRDEEAAERLYPLVEHIPQVLQDTERPLPRAALYSFKAARALLDHRKVESSPASLAICEKASGYLRDSLASTPTGSSIDKAMQLLLCDLLLVARTSLWQRQQSPASVQVAHGTSNGPQASALELRGFQHDLSSLRRLAQSFRPAMRRVFLHEATARLMAGASPARTHQLLDRSLRRRAGSSGKGGTTAELEPRPTWREHTEALLLASCYLPPAFLSAPGQRMSMLAEAARTVEKLGDHRLLLDCQQMLLRLGGGTTVTSS |
| 3297 | sp|A7M7C7|SKOR2\_MOUSE | MASSPLPGPNDILLASPSSAFQPDALSQPRPGHANLKPNQVGQVILYGIPIVSLVIDGQERLCLAQISNTLLKNFSYNEIHNRRVALGITCVQCTPVQLEILRRAGAMPISSRRCGMITKREAERLCKSFLGENRPPKLPDNFAFDVSHECAWGCRGSFIPARYNSSRAKCIKCSYCNMYFSPNKFIFHSHRTPDAKYTQPDAANFNSWRRHLKLTDKSPQDELVFAWEDVKAMFNGGSRKRALPQPSAHPACHPLSSVKAAAVAAAAAVAGGGGLLGPHLLGAPPPPPPPPPLAELAGAPHAHHKRPRFDDDDDSLQEAAVVAAASLSAAAASLSVAAATGGAGPGAGGPGGGCVAGVGVGASAGAGAAAGTKGPRSYPVIPVPSKGSFGGVLQKFPGCGGLFPHPYTFPAAAAAFGLCHKKEDAGTAAEALGGAGAGSAGAAPKAGLSGLFWPAGRKDAFYPPFCMFWPPRTPGGLPVPTYLQPPPQPPSALGCALGDSPALLRQAFLDLAEPGGAGGSAEAAPPPGQPPPVVANGPGSGPPATGGTGARDTLFESPPGGSGGDCSAGSTPPAEQGVTSGTGSASSGAGSVGTRVPAPHHPHLLEGRKAGGGSYHHSSAFRPVGGKDDAESLAKLHGASAGTPHSAPAHHHHHHHHPHHHHHHPPQPPSPLLLLQPQPDEPGSERHHPAPPPPPPPPPLAPQPHHRGLLSPEGTSCSYPSEDSSEDEEDEEEEQEVDVEGHKPLEGEEEEDGRDPEDEEEEDEETRVLLGDSLVGGGRFLQGRGLSEKGSGRDRTTPAVGAFPLALNSSRLLQEDGKLGDSGGSDLPAPPPPPLAPQKASSSGGSRPGSPVHHPSLEEEPSYKDNQKPKENNQVIISTKDDNFSDKNKGHGFFITDSDSSGDFWRERSGEHTQETNSPHSLKKDVENMGKEELQKVLFEQIDLRRRLEQEFQVLKGNTSFPVFNNFQDQMKRELAYREEMVQQLQIIPYAASLIRKEKLGAHLSKS |
| 3298 | sp|Q8NCR6|SMRP1\_HUMAN | MFLFSRKTRTPISTYSDSYRAPTSIKEVYKDPPLCAWEANKFLTPGLTHTMERHVDPEALQKMAKCAVQDYTYRGSISGHPYLPEKYWLSQEEADKCSPNYLGSDWYNTWRMEPYNSSCCNKYTTYLPRLPKEARMETAVRGMPLECPPRPERLNAYEREVMVNMLNSLSRNQQLPRITPRCGCVDPLPGRLPFHGYESACSGRHYCLRGMDYYASGAPCTDRRLRPWCREQPTMCTSLRAPARNAVCCYNSPAVILPISEP |
| 3299 | sp|Q8RWL6|STY17\_ARATH | MAIKEETEESCGSRAVVASITKESPRQHRMKLEVYGEVLQRIQESNYEEANFPGFDDLLWLHFNRLPARYALDVNVERAEDVLTHQRLLKLAEDPATRPVFEVRCVQVSPTLNGNSGDVDPSDPAVNEDAQSSYNSRSLAPPTFGSSPNFEALTQAYKDHAQDDDSAVNAQLPNSRPMHEITFSTIDRPKLLSQLTSMLGELGLNIQEAHAFSTADGFSLDVFVVDGWSQEETEGLKDALKKEIRKFKDQPCSKQKSITFFEHDKSTNELLPACVEIPTDGTDEWEIDMKQLKIEKKVACGSYGELFRGTYCSQEVAIKILKPERVNAEMLREFSQEVYIMRKVRHKNVVQFIGACTRSPNLCIVTEFMTRGSIYDFLHKHKGVFKIQSLLKVALDVSKGMNYLHQNNIIHRDLKTANLLMDEHEVVKVADFGVARVQTESGVMTAETGTYRWMAPEVIEHKPYDHRADVFSYAIVLWELLTGELPYSYLTPLQAAVGVVQKGLRPKIPKETHPKLTELLEKCWQQDPALRPNFAEIIEMLNQLIREVGDDERHKDKHGGYFSGLKKGHR |
| 3300 | sp|P38198|STU1\_YEAST | MSSFNNETNNNSNTNTHPDDSFPLYTVFKDESVPIEEKMALLTRFKGHVKKELVNESSIQAYFAALLFISGHYAYRSYPRLIFLSHSSLCYLIKRVAMQSPVQFNDTLVEQLLNHLIFELPNEKKFWLASIKAIEAIYLVNPSKIQAILANFLRRPSENQNGDYLNRIKSTLLTIDELIQINEKNNSNHLQLLRFFMLSFTNLLNNNLNEHANDDNNNVIIELIFDIMYKYLKMDDENSQDLIDGFINDLEVEKFKQKFISLAKSQDQHGSQEDKSTLFDEEYEFQLLLAEAKLPQLSNNLSSKDPAMKKNYESLNQLQQDLENLLAPFQSVKETEQNWKLRQSNIIELDNIISGNIPKDNPEEFVTVIKEVQLIELISRATSSLRTTLSLTALLFLKRLIHILNDQLPLSILDQIFVIFKNLLSSTKKISSQTAFHCLITLIIDINHFHNKLFQLSFLLINEKTVTPRFCSAILLRSFLIKFNDSNLSLNNSNTTSPTSKLENNIIYIEEWLKKGISDSQTTVREAMRLTFWYFYKCYPTNAKRLLSSSFSPQLKKATELAIPAHLNINYQVSRVSSTASASSATSRLYSHSSNNSSRKTSLLEQKRNYPSYAQPTQSSSTSLLNAPAVTAGGSVIASKLSNKLKTNLRSTSEYSSKENEKRARHHDSMNSVSNSNTKDNNNVTKRKVSAPPSSTAATKVSENYTNFDDFPSNQIDLTDELSNSYSNPLIKKYMDKNDVSMSSSPISLKGSNKLGEYETLYKKFNDASFPAQIKDALQYLQKELLLTSQQSSSAPKFEFPMIMKKLRQIMIKSPNDFKPFLSIEKFTNGVPLNYLIELYSINSFDYAEILKNRMNPEKPYELTNLIITIADLFNFLNANNCPNDFKLYYMKYKTTFFNYNFKLLLEIFRNLNIKHDNTLRSGTNDLMPKISMILFQIYGKEFDYTCYFNLIFEIYKFDNNRFNKLLADFDIVSTKMKICHELEKKDANFKVEDIISRESSVSFTPIDNKKSEGDEESDDAVDENDVKKCMEMTMINPFKNLETDKTLELKNNVGKRTSSTDSVVIHDDNDKDKKLSEMTKIVSVYQLDQPNPAKEEDDIDMENSQKSDLNLSEIFQNSGENTERKLKDDNEPTVKFSTDPPKIINEPEKLIGNGNENEKPDLETMSPIKINGDENMGQKQRITVKRERDVALTEQDINSKKMKLVNNKKSEKMHLLIMDNFPRDSLTVYEISHLLMVDSNGNTLMDFDVYFNHMSKAINRIKSGSFTMKHINYLIEPLITCFQNQKMTDWLTNENGFDELLDVAIMLLKSTDDTPSIPSKISSKSIILVHCLLVWKKFLNTLSENADDDGVSVRMCFEEVWEQILLMLNKFSDYGNEIYKLAQEFRDSLMLSHFFKKHSATRILSMLVTEIQPDTAGVKETFLIETLWKMLQSPTICQQFKKSNISEIIQTMSYFIMGTDNTSWNFTSAVVLARCLRVLQTTPDYTEQETERLFDCLPKNVFKMIMFIASNE |
| 3301 | sp|Q64324|STXB2\_MOUSE | MAPLGLKAVVGEKILSGVIRSVKKDGEWKVLIMDHPSMRILSSCCKMSDILAEGITIVEDINKRREPIPSLEAIYLLSPTEKSVQALIADFQGTPTFTYKAAHIFFTDTCPEPLFSELGRSRLAKAVKTLKEIHLAFLPYEAQVFSLDAPHSTYNLYCPFRAGERGRQLDALAQQIATLCATLQEYPSIRYRKGPEDTAQLAHAVLAKLNAFKADTPSLGEGPEKTRSQLLIMDRAADPVSPLLHELTFQAMAYDLLDIEQDTYRYETTGLSESREKAVLLDEDDDLWVELRHMHIADVSKKVTELLKTFCESKRLTTDKANIKDLSHILKKMPQYQKELNKYSTHLHLADDCMKHFKGSVEKLCSVEQDLAMGSDAEGEKIKDAMKLIVPVLLDASVPPYDKIRVLLLYILLRNGVSEENLAKLIQHANVQSYSSLIRNLEQLGGTVTNSAGSGTSSRLERRERMEPTYQLSRWSPVIKDVMEDVVEDRLDRKLWPFVSDPAPVPSSQAAVSARFGHWHKNKAGVEARAGPRLIVYIVGGVAMSEMRAAYEVTRATEGKWEVLIGSSHILTPTRFLDDLKTLDQKLEGVALP |
| 3302 | sp|P91409|STX4\_CAEEL | MHQISGINAASPEKNNSKLADVSLQQFLANVDEIRHVLTTLSADRHAIYMEQVESLAAGCSDTAKCRKLNDHVDKFIAQARGIRRRLADASEELVQYPESRVGSGRARHEQIQMLIVSLEGIMSQFADDQASYKAEAAKKIAAYLRKQNIEVTDSEIDGAIENGSLFQLTRNINLGVAQKKALFDDMKNRATDIMILEKQIREVEELFVDMQLLVQSQGETVDRIETSVIRAEEYAEQAQQNVRQAVVLRRKNRKWKIVTCIALIVLLLVVVYLLSHFLGAIIPGWK |
| 3303 | sp|Q9UQ90|SPG7\_HUMAN | MAVLLLLLRALRRGPGPGPRPLWGPGPAWSPGFPARPGRGRPYMASRPPGDLAEAGGRALQSLQLRLLTPTFEGINGLLLKQHLVQNPVRLWQLLGGTFYFNTSRLKQKNKEKDKSKGKAPEEDEEERRRRERDDQMYRERLRTLLVIAVVMSLLNALSTSGGSISWNDFVHEMLAKGEVQRVQVVPESDVVEVYLHPGAVVFGRPRLALMYRMQVANIDKFEEKLRAAEDELNIEAKDRIPVSYKRTGFFGNALYSVGMTAVGLAILWYVFRLAGMTGREGGFSAFNQLKMARFTIVDGKMGKGVSFKDVAGMHEAKLEVREFVDYLKSPERFLQLGAKVPKGALLLGPPGCGKTLLAKAVATEAQVPFLAMAGPEFVEVIGGLGAARVRSLFKEARARAPCIVYIDEIDAVGKKRSTTMSGFSNTEEEQTLNQLLVEMDGMGTTDHVIVLASTNRADILDGALMRPGRLDRHVFIDLPTLQERREIFEQHLKSLKLTQSSTFYSQRLAELTPGFSGADIANICNEAALHAAREGHTSVHTLNFEYAVERVLAGTAKKSKILSKEEQKVVAFHESGHALVGWMLEHTEAVMKVSITPRTNAALGFAQMLPRDQHLFTKEQLFERMCMALGGRASEALSFNEVTSGAQDDLRKVTRIAYSMVKQFGMAPGIGPISFPEAQEGLMGIGRRPFSQGLQQMMDHEARLLVAKAYRHTEKVLQDNLDKLQALANALLEKEVINYEDIEALIGPPPHGPKKMIAPQRWIDAQREKQDLGEEETEETQQPPLGGEEPTWPK |
| 3304 | sp|Q9R1R2|TRIM3\_MOUSE | MAKREDSPGPEVQPMDKQFLVCSICLDRYRCPKVLPCLHTFCERCLQNYIPPQSLTLSCPVCRQTSILPEQGVSALQNNFFISSLMEAMQQAPEGAHDPEDPHPLSAVAGRPLSCPNHEGKTMEFYCEACETAMCGECRAGEHREHGTVLLRDVVEQHKAALQRQLEAVRGRLPQLSAAIALVGGISQQLQERKAEALAQISAAFEDLEQALQQRKQALVSDLESICGAKQKVLQTQLDTLRQGQEHIGSSCSFAEQALRLGSAPEVLLVRKHMRERLAALAAQAFPERPHENAQLELVLEVDGLRRSVLNLGALLTTSATAHETVATGEGLRQALVGQPASLTVTTKDKDGRLVRTGSAELCAEITGPDGVRLAVPVVDHKNGTYELVYTARTEGDLLLSVLLYGQPVRGSPFRVRALRPGDLPPSPDDVKRRVKSPGGPGSHVRQKAVRRPSSMYSTGGKRKDNPIEDELVFRVGSRGREKGEFTNLQGVSAASSGRIVVADSNNQCIQVFSNEGQFKFRFGVRGRSPGQLQRPTGVAVDTNGDIIVADYDNRWVSIFSPEGKFKTKIGAGRLMGPKGVAVDRNGHIIVVDNKSCCVFTFQPNGKLVGRFGGRGATDRHFAGPHFVAVNNKNEIVVTDFHNHSVKVYSADGEFLFKFGSHGEGNGQFNAPTGVAVDSNGNIIVADWGNSRIQVFDSSGSFLSYINTSAEPLYGPQGLALTSDGHVVVADAGNHCFKAYRYLQ |
| 3305 | sp|Q9UPV9|TRAK1\_HUMAN | MALVFQFGQPVRAQPLPGLCHGKLIRTNACDVCNSTDLPEVEIISLLEEQLPHYKLRADTIYGYDHDDWLHTPLISPDANIDLTTEQIEETLKYFLLCAERVGQMTKTYNDIDAVTRLLEEKERDLELAARIGQSLLKKNKTLTERNELLEEQVEHIREEVSQLRHELSMKDELLQFYTSAAEESEPESVCSTPLKRNESSSSVQNYFHLDSLQKKLKDLEEENVVLRSEASQLKTETITYEEKEQQLVNDCVKELRDANVQIASISEELAKKTEDAARQQEEITHLLSQIVDLQKKAKACAVENEELVQHLGAAKDAQRQLTAELRELEDKYAECMEMLHEAQEELKNLRNKTMPNTTSRRYHSLGLFPMDSLAAEIEGTMRKELQLEEAESPDITHQKRVFETVRNINQVVKQRSLTPSPMNIPGSNQSSAMNSLLSSCVSTPRSSFYGSDIGNVVLDNKTNSIILETEAADLGNDERSKKPGTPGTPGSHDLETALRRLSLRRENYLSERRFFEEEQERKLQELAEKGELRSGSLTPTESIMSLGTHSRFSEFTGFSGMSFSSRSYLPEKLQIVKPLEGSATLHHWQQLAQPHLGGILDPRPGVVTKGFRTLDVDLDEVYCLNDFEEDDTGDHISLPRLATSTPVQHPETSAHHPGKCMSQTNSTFTFTTCRILHPSDELTRVTPSLNSAPTPACGSTSHLKSTPVATPCTPRRLSLAESFTNTRESTTTMSTSLGLVWLLKERGISAAVYDPQSWDRAGRGSLLHSYTPKMAVIPSTPPNSPMQTPTSSPPSFEFKCTSPPYDNFLASKPASSILREVREKNVRSSESQTDVSVSNLNLVDKVRRFGVAKVVNSGRAHVPTLTEEQGPLLCGPPGPAPALVPRGLVPEGLPLRCPTVTSAIGGLQLNSGIRRNRSFPTMVGSSMQMKAPVTLTSGILMGAKLSKQTSLR |
| 3306 | sp|Q29477|TRFL\_CAPHI | MKLFVPALLSLGALGLCLAAPRKNVRWCAISLPEWSKCYQWQRRMRKLGAPSITCIRRTSALECIRAIAGKNADAVTLDSGMVFEAGLDPYKLRPVAAEIYGTEKSPQTHYYAVAVVKKGSNFQLDQLQGQKSCHMGLGRSAGWNIPVGILRPFLSWTESAEPLQGAVARFFSASCVPCVDGKAYPNLCQLCKGVGENKCACSSQEPYFGYSGAFKCLQDGAGDVAFVKETTVFENLPEKADRDQYELLCLNNTRAPVDAFKECHLAQVPSHAVVARSVDGKENLIWELLRKAQEKFGKNKSQSFQLFGSPEGRRDLLFKDSALGFVRIPSKVDSALYLGSRYLTALKNLRETAEELKARCTRVVWCAVGPEEQSKCQQWSEQSGQNVTCATASTTDDCIALVLKGEADALSLDGGYIYTAGKCGLVPVMAENRKSSKYSSLDCVLRPTEGYLAVAVVKKANEGLTWNSLKGKKSCHTAVDRTAGWNIPMGLIANQTGSCAFDEFFSQSCAPGADPKSSLCALCAGDDQGLDKCVPNSKEKYYGYTGAFRCLAEDVGDVAFVKNDTVWENTNGESSADWAKNLNREDFRLLCLDGTTKPVTEAQSCYLAVAPNHAVVSRSDRAAHVEQVLLHQQALFGKNGKNCPDQFCLFKSETKNLLFNDNTECLAKLGGRPTYEKYLGTEYVTAIANLKKCSTSPLLEACAFLTR |
| 3307 | sp|O17966|TOP1\_CAEEL | MSVVSNHHSNGNGNSTVYDTNGNDEIKKEVKDEPMASDSEVPFGELMKRDKKEKKQKKRKAESGSDEDDYKPEKRKSSAKNGKKKDVGSDSEDDYKPEKKKSKKNNKKKAQESSEDDDEESEGDVSEEDVKPQIHSDDELEEEDEAPTTDDEEEQKRKEKERRKKEKREKKERKEKKRLEKENRKIKEEDDEDSDDEDDEKAKKKKRKSKGAEKSKPSTSKKDAGGKKEPPKKKVKKEEDIEDIWEWWKEEKKPAGVKWNSLQHCGPLFAPPYIPLPSHVHFKYGGEKMKLTLETEEIAQFYAGVLDHEYSTKEAFNKNFMKDWRKVMTVEERERIHDLKKCDFRAIDAYQKEQREIRKAMTKEEKLKIKEEKEAEVKIYGIAIIDGHRQKVANFRIEPPGVFRGRGGHPKMGLIKKRIMPEDVIINCGKDTEIPKPPPGHKWKEVRHDNTVTWLCSWTESVLGQNKYIMLNPSSKIKGEKDFEKYETARRLKKKIGGIRERYTDDFKSKEMRVRQRATALYFIDKLALRAGNEKDVDEAADTVGCCSLRVEHIKLFDSAKLNEDDKKEKEFVVEFDFLGKDSIRYFNRVSVEKRVYKNLKIFMEGKAPSDDLFDRLDTATLNDHLRSLMDGLTVKVFRTYNASITLQEQLIKLTNPKDNVAAKILSYNRANRQVAILCNHQRAVSKGFDESMQKLEQKIKDKKKEVKEAEAALKSARGAEKEKAQKKYDRLKEQLKKLKISRTDKDENKQIALGTSKLNYIDPRITVAWCKKFEVPLEKVFTKTHREKFRWAIDMTNSSDEEYVF |
| 3308 | sp|Q5BLK4|TUT7\_MOUSE | MGDTAKPYFVKRTKDRGIIDDDDFRRGHPQQDYLIMDDYAKGHSSKMEKGLPKKKISPGNYGNTPRKGLYGVSSNPYAFKNPIYSQPAWMNDNHKDQNKKWLSDELAGNADSWREFKPGPRIPVISRSRKESFQESDDAYRWQEGRGCRAVRRLFQKDLSSLEAMSEMEAGSPENKKQRSRPRKPRRTRTEDSEQDGDLDGPVIDESVLSTKELLGLQQAEERLKRDCIDRLKRRPRNCPTAKYTCKLCDALIDSIPFAHKHIKEKRHKKNLKEKQEEELLTTLPPPAPSQIHAVGSAIDRVVQEFGLHSENLDQRLEIKRVMESVFRHKLPDCSLRLYGSSCSRLGFRDSDVNIDVQFPAVMSQPDVLLLVQECLKNSDSFIDVDADFHARVPVVVCRDKQSGLLCKVSAGNENAWLTTKHLTALGKLEPRLVPLVIAFRYWAKLCSIDRPEEGGLPPYVFALMAVFFLQQRKEPLLPVYLGSWIEEFSLNKLGNFSLKDVEKDSVVWEYTDNSTGDTSSAKEEAPKETAAKKGQVPLTFNIKHQPSVPVGQLWVELLRFYALEFNLADLVISIRVKELISRESKDWPKKRIAIEDPYSVKRNVARTLNNQPVFEYILHCLRTTYKYFALPHKVTKPNLTKPPSPVTCVSDPYREAKNGGPEPQATNIDKLGNAAVAQDPGVQTSGDCRAQLVTLKNTTEEVGSPAKEKTGGVHIPAHQESSGCVQAEVSCEGLEDATAELPETGSDNEEVRRKTKHPLSTDDQGLSSSKHPELQNCGSLCGLQADNTLELVAEECNSCASLDNKAEVNEERIEGAEELEEAAALSCFSPSVQSRTSAAMHFDDEEEEEEEEEEEEPRLSINLTEDEEGVANEHQVDSRYAGSGEEDALSEEDDLAEPAKGEDTGECGENVGGTLLIDLNRITLKEESFPEEDLPGDQSEFFYEFRKLTFTKGKSPTVVCSLCKREGHLKKDCPEDFKRVQLEPLPPLTPKFSNILDQVCVQCYKDFSPTIVEDQAREHIRQNLESFIKQDFPGTKLSLFGSSKNGFGFKQSDLDVCMTINGHETAEGLDCVRTIEELARVLRKHSGLRNILPITTAKVPIVKFFHLRSGLEVDISLYNTLALHNTRLLSAYSAIDPRVKYLCYTMKVFTKMCDIGDASRGSLSSYAYTLMVLYFLQQRSPPVIPVLQEIYKGEKKPEILVDGWNIYFFDQINELPTCWPEYGKNTEPVGQLWLGLLRFYTEEFDFKEHVISIRRKSLLTTFKKQWTSKYIVIEDPFDLNHNLGAGLSRKMTNFIMKAFINGRRVFGIPVKGFPKDNPSKLAYFFDPDVLTEGELAPNDRCCRICGKIGHFMKDCPMRRKVRRRRDQEDTPNQRYSESKEKRSKEDKEIQNKYTEKEVSTKEDKLTPCAAAKAKPVRAAVDLGREKLLRTPTEKWKRQDDRDSREKRCFICGREGHIKKECPQFKGSPGSLSSKYMTQGRASVKRTQQES |
| 3309 | sp|P14632|TRFL\_PIG | MKLFIPALLFLGTLGLCLAAPKKGVRWCVISTAEYSKCRQWQSKIRRTNPMFCIRRASPTDCIRAIAAKRADAVTLDGGLVFEADQYKLRPVAAEIYGTEENPQTYYYAVAVVKKGFNFQLNQLQGRKSCHTGLGRSAGWNIPIGLLRRFLDWAGPPEPLQKAVAKFFSQSCVPCADGNAYPNLCQLCIGKGKDKCACSSQEPYFGYSGAFNCLHKGIGDVAFVKESTVFENLPQKADRDKYELLCPDNTRKPVEAFRECHLARVPSHAVVARSVNGKENSIWELLYQSQKKFGKSNPQEFQLFGSPGQQKDLLFRDATIGFLKIPSKIDSKLYLGLPYLTAIQGLRETAAEVEARQAKVVWCAVGPEELRKCRQWSSQSSQNLNCSLASTTEDCIVQVLKGEADAMSLDGGFIYTAGKCGLVPVLAENQKSRQSSSSDCVHRPTQGYFAVAVVRKANGGITWNSVRGTKSCHTAVDRTAGWNIPMGLLVNQTGSCKFDEFFSQSCAPGSQPGSNLCALCVGNDQGVDKCVPNSNERYYGYTGAFRCLAENAGDVAFVKDVTVLDNTNGQNTEEWARELRSDDFELLCLDGTRKPVTEAQNCHLAVAPSHAVVSRKEKAAQVEQVLLTEQAQFGRYGKDCPDKFCLFRSETKNLLFNDNTEVLAQLQGKTTYEKYLGSEYVTAIANLKQCSVSPLLEACAFMMR |
| 3310 | sp|Q9BVG3|TRI62\_HUMAN | MACSLKDELLCSICLSIYQDPVSLGCEHYFCRRCITEHWVRQEAQGARDCPECRRTFAEPALAPSLKLANIVERYSSFPLDAILNARRAARPCQAHDKVKLFCLTDRALLCFFCDEPALHEQHQVTGIDDAFDELQRELKDQLQALQDSEREHTEALQLLKRQLAETKSSTKSLRTTIGEAFERLHRLLRERQKAMLEELEADTARTLTDIEQKVQRYSQQLRKVQEGAQILQERLAETDRHTFLAGVASLSERLKGKIHETNLTYEDFPTSKYTGPLQYTIWKSLFQDIHPVPAALTLDPGTAHQRLILSDDCTIVAYGNLHPQPLQDSPKRFDVEVSVLGSEAFSSGVHYWEVVVAEKTQWVIGLAHEAASRKGSIQIQPSRGFYCIVMHDGNQYSACTEPWTRLNVRDKLDKVGVFLDYDQGLLIFYNADDMSWLYTFREKFPGKLCSYFSPGQSHANGKNVQPLRINTVRI |
| 3311 | sp|Q8R326|PSPC1\_MOUSE | MMLRGNLKQVRIEKNPARLRALESAAGESEPVAAAAMALTLAGEQAPPPAPSEEHPDEELGFTIDIKSFLKPGEKTYTQRCRLFVGNLPTDITEEDFKRLFERYGEPSEVFINRDRGFGFIRLESRTLAEIAKAELDGTILKSRPLRIRFATHGAALTVKNLSPVVSNELLEQAFSQFGPVEKAVVVVDDRGRATGKGFVEFAAKPPARKALERCGDGAFLLTTTPRPVIVEPMEQFDDEDGLPEKLMQKTQQYHKEREQPPRFAQPGTFEFEYASRWKALDEMEKQQREQVDRNIREAKEKLEAEMEAARHEHQLMLMRQDLMRRQEELRRLEELRNQELQKRKQIQLRHEEEHRRREEEMIRHREQEELRRQQEGGFKPNYMENREQEMRMGDMGPRGAINMGDAFSPAPAGTQGPPPMMGMNMNNRGTIPGPPMGPGPAMGPEGAANMGTPMIPDNGAVHNDRFPQGPPSQMGSPMGNRTGSETPQAPMSGVGPVSGGPGGFGRGSQGGNFEGPNKRRRY |
| 3312 | sp|Q9FLN9|PXG2\_ARATH | MTSMERMERDAMETVAPYARVTYHRRVRGDLDDTLPKPYLPRALQAPDMEHPQGTPDHRHNGLSVLQQHVAFFDLDNNGIIYPFETFSGFRLLGFNLLASLILAAGINIALSYATLPGWLPSPFFPIYIHNIHKAKHGSDSKTYDNEGRYTPANLELMFSKYARTIPDKLSLGELWDMTEGNRDAFDFFGWLASKVEWGVLYALASDEEGFLSKEAIRRCFDGSLFEYCAKNYAEIKEYKTYY |
| 3313 | sp|P15254|PUR4\_ECOLI | MMEILRGSPALSAFRINKLLARFQAARLPVHNIYAEYVHFADLNAPLNDDEHAQLERLLKYGPALASHAPQGKLLLVTPRPGTISPWSSKATDIAHNCGLQQVNRLERGVAYYIEAGTLTNEQWQQVTAELHDRMMETVFFALDDAEQLFAHHQPTPVTSVDLLGQGRQALIDANLRLGLALAEDEIDYLQDAFTKLGRNPNDIELYMFAQANSEHCRHKIFNADWVIDGEQQPKSLFKMIKNTFETTPDHVLSAYKDNAAVMEGSEVGRYFADHETGRYDFHQEPAHILMKVETHNHPTAISPWPGAATGSGGEIRDEGATGRGAKPKAGLVGFSVSNLRIPGFEQPWEEDFGKPERIVTALDIMTEGPLGGAAFNNEFGRPALNGYFRTYEEKVNSHNGEELRGYHKPIMLAGGIGNIRADHVQKGEINVGAKLVVLGGPAMNIGLGGGAASSMASGQSDADLDFASVQRDNPEMERRCQEVIDRCWQLGDANPILFIHDVGAGGLSNAMPELVSDGGRGGKFELREILSDEPGMSPLEIWCNESQERYVLAVAADQLPLFDELCKRERAPYAVIGEATEELHLSLHDRHFDNQPIDLPLDVLLGKTPKMTRDVQTLKAKGDALAREGITIADAVKRVLHLPTVAEKTFLVTIGDRSVTGMVARDQMVGPWQVPVANCAVTTASLDSYYGEAMAIGERAPVALLDFAASARLAVGEALTNIAATQIGDIKRIKLSANWMAAAGHPGEDAGLYEAVKAVGEELCPALGLTIPVGKDSMSMKTRWQEGNEEREMTSPLSLVISAFARVEDVRHTITPQLSTEDNALLLIDLGKGNNALGATALAQVYRQLGDKPADVRDVAQLKGFYDAIQALVAQRKLLAYHDRSDGGLLVTLAEMAFAGHCGIDADIATLGDDRLAALFNEELGAVIQVRAADREAVESVLAQHGLADCVHYVGQAVSGDRFVITANGQTVFSESRTTLRVWWAETTWQMQRLRDNPECADQEHQAKSNDADPGLNVKLSFDINEDVAAPYIATGARPKVAVLREQGVNSHVEMAAAFHRAGFDAIDVHMSDLLTGRTGLEDFHALVACGGFSYGDVLGAGEGWAKSILFNDRVRDEFATFFHRPQTLALGVCNGCQMMSNLRELIPGSELWPRFVRNTSDRFEARFSLVEVTQSPSLLLQGMVGSQMPIAVSHGEGRVEVRDAAHLAALESKGLVALRYVDNFGKVTETYPANPNGSPNGITAVTTESGRVTIMMPHPERVFRTVSNSWHPENWGEDGPWMRIFRNARKQLG |
| 3314 | sp|Q84JW1|PX11E\_ARATH | MTTLDLTRAELALIVLYLNKAEARDKICRAIQYGSKFLSGGQPGTAQTVDKNTSLARKVFRLFKFVNDFHGLISPVPKGTPLPLVLLGKSKNALLSTFLFLDQIVWLGRSGIYKNKERTELLGRISLFCWLGSSVCTSAVEIGELGRLSSSMKKMEKELKADDELYRAKLQKSNDRTLALIKSSMDIIVAIGLLQLAPKTISPRVTGAFGFTTSLISCYQLLPSRPKLKTP |
| 3315 | sp|P23883|PUUC\_ECOLI | MNFHHLAYWQDKALSLAIENRLFINGEYTAAAENETFETVDPVTQAPLAKIARGKSVDIDRAMSAARGVFERGDWSLSSPAKRKAVLNKLADLMEAHAEELALLETLDTGKPIRHSLRDDIPGAARAIRWYAEAIDKVYGEVATTSSHELAMIVREPVGVIAAIVPWNFPLLLTCWKLGPALAAGNSVILKPSEKSPLSAIRLAGLAKEAGLPDGVLNVVTGFGHEAGQALSRHNDIDAIAFTGSTRTGKQLLKDAGDSNMKRVWLEAGGKSANIVFADCPDLQQAASATAAGIFYNQGQVCIAGTRLLLEESIADEFLALLKQQAQNWQPGHPLDPATTMGTLIDCAHADSVHSFIREGESKGQLLLDGRNAGLAAAIGPTIFVDVDPNASLSREEIFGPVLVVTRFTSEEQALQLANDSQYGLGAAVWTRDLSRAHRMSRRLKAGSVFVNNYNDGDMTVPFGGYKQSGNGRDKSLHALEKFTELKTIWISLEA |
| 3316 | sp|Q57U83|PYRD\_TRYB2 | MSLKVNILGHEFSNPFMNAAGVLCTTEEDLRRMTESESGSLIGKSCTLAPRTGNPEPRYFGLPLGSINSMGLPNLGVDFYLSYAAQTHDYSRKPLFLSMSGLSVEESVEMVKKLAPITKEKGTILELNLSCPNVPGKPQVGYDFDTTRTYLQKVSEAYGLPFGVKMPPYFDIAHFDMAAAVLNDFPLVKFITCVNSIGNGLVIDPANETVVIKPKQGFGGLGGKYVLPTALANVNAFFRRCPDKLVFGCGGVYSGEEAFLHILAGASMVQVGTALHDEGPIIFARLNKELQEIMTNKGYKTLDEFRGRVKTMD |
| 3317 | sp|Q61550|RAD21\_MOUSE | MFYAHFVLSKRGPLAKIWLAAHWDKKLTKAHVFECNLESSVESIISPKVKMALRTSGHLLLGVVRIYHRKAKYLLADCNEAFIKIKMAFRPGVVDLPEENREAAYNAITLPEEFHDFDQPLPDLDDIDVAQQFSLNQSRVEEITMREEVGNISILQENDFGDFGMDDREIMREGSAFEDDDMLVSTSASNLLLEPEQSTSNLNEKMNHLEYEDQYKDDNFGEGNDGGILDDKLISNNDGGIFDDPPALSEAGVMLPEQPAHDDMDEDDNGSLGGPDSPDSVDPVEPMPTMTDQTTLVPNEEEAFALEPIDITVKETKAKRKRKLIVDSVKELDSKTIRAQLSDYSDIVTTLDLAPPTKKLMMWKETGGVEKLFFLPAQPLWNNRLLKLFTRCLTPLVPEDLRKRRKGGEADNLDEFLKEFENPEVPREEQQPQQQQPQPQRDVIDEPIIEEPSRLQDSVMEASRTTIEESAMPPPPPQGVKRKAGQIDPEPSIPPQQVEQMEIPPVELPPEEPPNICQLIPELELLPEKEKEKEKEKEEEEEEEDEDASGGDQDQEERRWNKRTQQMLHGLQRALAKTGAESISLLELCRNTNRKQAAAKFYSFLVLKKQQAIELTQEEPYSDIIATPGPRFHII |
| 3318 | sp|P0C6X4|R1AB\_CVHN5 | MIKTSKYGLGFKWAPEFRWLLPDAAEELASPMKSDEGGLCPSTGQAMESVGFVYDNHVKIDCRCILGQEWHVQSNLIRDIFVHEDLHVVEVLTKTAVKSGTAILIKSPLHSLGGFPKGYVMGLFRSYKTKRYVVHHLSMTTSTTNFGEDFFGWIVPFGFMPSYVHKWFQFCRLYIEESDLIISNFKFDDYDFSVEAAYAEVHAEPKGKYSQKAYALLRQYRGIKPVLFVDQYGCDYSGKLADCLQAYGHYSLQDMRQKQSVWLANCDFDIVVAWHVVRDSRFVMRLQTIATICGIKYVAQPTEDVVDGDVVIREPVHLLSADAIVLKLPSLMKVMTHMDDFSIKSIYNVDLCDCGFVMQYGYVDCFNDNCDFYGWVSGNMMDGFSCPLCCTVYDSSEVKAQSSGVIPENPVLFTNSTDTVNPDSFNLYGYSVTPFGSCIYWSPRPGLWIPIIKSSVKSYDDLVYSGVVGCKSIVKETALITHALYLDYVQCKCGNLEQNHILGVNNSWCRQLLLNRGDYNMLLKNIDLFVKRRADFACKFAVCGDGFVPFLLDGLIPRSYYLIQSGIFFTSLMSQFSQEVSDMCLKMCILFMDRVSVATFYIEHYVNRLVTQFKLLGTTLVNKMVNWFNTMLDASAPATGWLLYQLLNGFFVVSQANLNFVALIPDYAKILVNKFYTFFKLLLECVTVDVLKDMPVLKTINGLVCIVGNKFYNVSTGLIPGFVLPCNAQEQQIYFFEGVAESVIVEDDVIENVKSSLSSYEYCQPPKSVEKICIIDNMYMGKCGDKFFPIVMNDKNICLLDHAWRFPCAGRKVNFNEKPVVMEIPSLMTVKVMFDLDSTFDDILGKVCSEFEVEKGVTVDDFVAVVCDAIENALNSCKEHPVVGYQVRAFLNKLNENVVYLFDEAGDEAMASRMYCTFAIEDVEDVISSEAVEDTIDGVVEDTINDDEDVVTGDNDDEDVVTGDNDDEDVVTGDNDDEDVVTGDNDDEDVVTGDNDDEDVVTGDNDDEDVVTGDNDDEDVVTGDNNDEDVVTGDNNDEESVTGDNDDQIVVTGDDVDDIESIYDFDTYKALLVFNDVYNDALFVSYGSSVETETYFKVNGLWSPTITHTNCWLRSVLLVMQKLPFKFKDLAIENMWLSYKVGYNQSFVDYLLTTIPKAIVLPQGGYVADFAYWFLNQFDINAYANWCCLKCGFSFDLNGLDAVFFYGDIVSHVCKCGHNMTLIAADLPCTLHFSLFDDNFCAFCTPKKIFIAACAVDVNVCHSVAVIGDEQIDGKFVTKFSGDKFDFIVGYGMSFSMSSFELAQLYGLCITPNVCFVKGDIINVARLVKADVIVNPANGHMLHGGGVAKAIAVAAGKKFSKETAAMVKSKGVCQVGDCYVSTGGKLCKTILNIVGPDARQDGRQSYVLLARAYKHLNNYDCCLSTLISAGIFSVPADVSLTYLLGVVDKQVILVSNNKEDFDIIQKCQITSVVGTKALAVRLTANVGRVIKFETDAYKLFLSGDDCFVSNSSVIQEVLLLRHDIQLNNDVRDYLLSKMTSLPKDWRLINKFDVINGVKTVKYFECPNSIYICSQGKDFGYVCDGSFYKATVNQVCVLLAKKIDVLLTVDGVNFKSISLTVGEVFGKILGNVFCDGIDVTKLKCSDFYADKILYQYENLSLADISAVQSSFGFDQQQLLAYYNFLTVCKWSVVVNGPFFSFEQSHNNCYVNVACLMLQHINLKFNKWQWQEAWYEFRAGRPHRLVALVLAKGHFKFDEPSDATDFIRVVLKQADLSGAICELELICDCGIKQESRVGVDAVMHFGTLAKTDLFNGYKIGCNCAGRIVHCTKLNVPFLICSNTPLSKDLPDDVVAANMFMGVGVGHYTHLKCGSPYQHYDACSVKKYTGVSGCLTDCLYLKNLTQTFTSMLTNYFLDDVEMVAYNPDLSQYYCDNGKYYTKPIIKAQFKPFAKVDGVYTNFKLVGHDICAQLNDKLGFNVDLPFVEYKVTVWPVATGDVVLASDDLYVKRYFKGCETFGKPVIWFCHDEASLNSLTYFNKPSFKSENRYSVLSVDSVSEESQGNVVTSVMESQISTKEVKLKGVRKTVKIEDAIIVNDENSSIKVVKSLSLVDVWDMYLTGCDYVVWVANELSRLVKSPTVREYIRYGIKPITIPIDLLCLRDDNQTLLVPKIFKARAIEFYGFLKWLFIYVFSLLHFTNDKTIFYTTEIASKFTFNLFCLALKNAFQTFRWSIFIKGFLVVATVFLFWFNFLYINVIFSDFYLPNISVFPIFVGRIVMWIKATFGLVTICDFYSKLGVGFTSHFCNGSFICELCHSGFDMLDTYAAIDFVQYEVDRRVLFDYVSLVKLIVELVIGYSLYTVWFYPLFCLIGLQLFTTWLPDLFMLETMHWLIRFIVFVANMLPAFVLLRFYIVVTAMYKVVGFIRHIVYGCNKAGCLFCYKRNCSVRVKCSTIVGGVIRYYDITANGGTGFCVKHQWNCFNCHSFKPGNTFITVEAAIELSKELKRPVNPTDASHYVVTDIKQVGCMMRLFYDRDGQRVYDDVDASLFVDINNLLHSKVKVVPNLYVVVVESDADRANFLNAVVFYAQSLYRPILLVDKKLITTACNGISVTQIMFDVYVDTFMSHFDVDRKSFNNFVNIAHASLREGVQLEKVLDTFVGCVRKCCSIDSDVETRFITKSMISAVAAGLEFTDENYNNLVPTYLKSDNIVAADLGVLIQNGAKHVQGNVAKVANISCIWFIDAFNQLTADLQHKLKKACVKTGLKLKLTFNKQEASVPILTTPFSLKGGVVLSNLLYILFFISLICFILLWALLPTYSVYKSDIHLPAYASFKVIDNGVVRDISVNDLCFANKFFQFDQWYESTFGSVYYHNSMDCPIVVAVMDEDIGSTMFNVPTKVLRYGFHVLHFLTYAFASDSVQCYTPHIQISYNDFYASGCVLSSLCTMFKRGDGTPHPYCYTDGVMKNASLYTSLVPHTRYSLANSNGFIRFPDVISEGIVRIVRTRSMTYCRVGACEYAEEGICFNFNSSWVLNNDYYRSMPGTFCGRDFFDLFYQFFSSLIRPIDFFSLTASSIFGAILAIVVVLVFYYLIKLKRAFGDYTSVVVINVIVWCINFLMLFVFQVYPICACVYACFYFYVTLYFPSEISVIMHLQWIVMYGAIMPFWFCVTYVAMVIANHVLWLFSYCRKIGVNVCSDSTFEETSLTTFMITKDSYCRLKNSVSDVAYNRYLSLYNKYRYYSGKMDTAAYREAACSQLAKAMETFNHNNGNDVLYQPPTASVSTSFLQSGIVKMVSPTSKIEPCLVSVTYGSMTLNGLWLDDKVYCPRHVICLSSNMNEPDYSALLCRVTLGDFTIMSGRMSLTVVSYQMQGCQLVLTVSLQNPYTPKYTFGVVKPGETFTVLAAYNGRPQGAFHVTMRSSYTIKGSFLCGSCGSVGYVLTGDSVKFVYMHQLELSTGCHTGTDFNGNFYGPYRDAQVVQLPVKDYVQTVNVIAWLYAAILNNCAWFVQNDVCSIEDFNVWAMTNGFSQVKADLVLDALASMTGVSIETLLAAIKRLYMGFQGRQILGSCTFEDELAPSDVYQQLAGVKLQSKTKRFIKETIYWILISTFLFSCIISAFVKWTIFMYINTHMIGVTLCVLCFVSFMMLLVKHKHFYLTMYIIPVLCTLFYVNYLVVYKEGFRGFTYVWLSHFVPAVNFTYVYEVFYGCILCVFAIFITMHSINHDIFSLMFLVGRIVTLISMWYFGSNLEEDVLLFITAFLGTYTWTTILSLAIAKIVANWLSVNIFYFTDVPYIKLILLSYLFIGYILSCYWGFFSLLNSVFRMPMGVYNYKISVQELRYMNANGLRPPRNSFEAILLNLKLLGIGGVPVIEVSQIQSKLTDVKCANVVLLNCLQHLHVASNSKLWQYCSVLHNEILSTSDLSVAFDKLAQLLIVLFSNPAAVDTKCLASIDEVSDDYVQDSTVLQALQSEFVNMASFVEYEVAKKNLADAKNSGSVNQQQIKQLEKACNIAKSVYERDKAVARKLERMADLALTNMYKEARINDKKSKVVSALQTMLFSMVRKLDNQALNSILDNAVKGCVPLSAIPALAANTLTIIIPDKQVFDKVVDNVYVTYAGSVWHIQTVQDADGINKQLTDISVDSNWPLVIIANRYNEVANAVMQNNELMPHKLKIQVVNSGSDINCNIPTQCYYNNVSSGRIVYAVLSDVDGLKYTKIMKDDGNCVVLELDPPCKFSIQDVKGLKIKYLYFIKGCNTLARGWVVGTLSSTIRLQAGVATEYAANSSILSLCAFSVDPKKTYLDYIQQGGVPIINCVKMLCDHAGTGMAITIKPEATINQDSYGGASVCIYCRARVEHPDVDGICKLRGKFVQVPLGIKDPILYVLTHDVCQVCGFWRDGSCSCVGSSVAVQSKDLNFLNRVRGTSVNARLVPCASGLSTDVQLRAFDICNTNRAGIGLYYKVNCCRFQRIDDDGNKLDKFFVVKRTNLEVYNKEKTYYELTKSCGVVAEHDFFTFDIDGSRVPHIVRRNLSKYTMLDLCYALRHFDRNDCSILCEILCEYADCKESYFSKKDWYDFVENPDIINIYKKLGPIFNRALLNTVIFADTLVEVGLVGVLTLDNQDLYGQWYDFGDFIQTAPGFGVAVADSYYSYMMPMLTMCHVLDCELFVNDSYRQFDLVQYDFTDYKLELFNKYFKYWGMKYHPNTVDCDNDRCIIHCANFNILFSMVLPNTCFGPLVRQIFVDGVPFVVSIGYHYKELGVVMNLDVDTHRYRLSLKDLLLYAADPAMHVASASALLDLRTCCFSVAAITSGIKFQTVKPGNFNQDFYEFVKSKGLFKEGSTVDLKHFFFTQDGNAAITDYNYYKYNLPTMVDIKQLLFVLEVVYKYFEIYDGGCIPASQVIVNNYDKSAGYPFNKFGKARLYYEALSFEEQNEIYAYTKRNVLPTLTQMNLKYAISAKNRARTVAGVSILSTMTGRMFHQKCLKSIAATRGVPVVIGTTKFYGGWDDMLRHLIKDVDNPVLMGWDYPKCDRAMPNILRIVSSLVLARKHEFCCSHGDRFYRLANECAQVLSEIVMCGGCYYVKPGGTSSGDATTAFANSVFNICQAVTANVCSLMACNGHKIEDLSIRNLQKRLYSNVYRTDYVDYTFVNEYYEFLCKHFSMMILSDDGVVCYNSDYANKGYIANISAFQQVLYYQNNVFMSESKCWVENDITNGPHEFCSQHTMLVKIDGDYVYLPYPDPSRILGAGCFVDDLLKTDSVLLIERFVSLAIDAYPLVYHENEEYQKVFRVYLEYIKKLYNDLGTQILDSYSVILSTCDGLKFTEESFYKNMYLKSAVMQSVGACVVCSSQTSLRCGSCIRKPLLCCKCCYDHVMATNHKYVLSVSPYVCNAPNCDVSDVTKLYLGGMSYYCENHKPHYSFKLVMNGMVFGLYKQSCTGSPYIDDFNKIASCKWTEVDDYVLANECIERLKLFAAETQKATEEAFKQSYASATIQEIVSDREVILCWETGKVKPPLNKNYVFTGYHFTSTGKTVLGEYVFDKSELTNGVYYRATTTYKLSIGDVFVLTSHSVASLSAPTLVPQENYASIRFSSVYSVPLVFQNNVANYQHIGMKRYCTVQGPPGTGKSHLAIGLAVYYYTARVVYTAASHAAVDALCEKAYKFLNINDCTRIIPAKVRVDCYDKFKINDTTCKYVFTTINALPELVTDIVVVDEVSMLTNYELSVINARIKAKHYVYIGDPAQLPAPRVLLSKGSLEPRHFNSITKIMCCLGPDIFLGNCYRCPKEIVETVSALVYDNKLKAKNDNSSLCFKVYFKGQTTHESSSAVNIQQIYLISKFLKANPVWNSAVFISPYNSQNYVAKRVLGVQTQTVDSAQGSEYDYVIYSQTAETAHSVNVNRFNVAITRAKKGIFCVMSNMQLFESLNFITLPLDKIQNQTLPRLHCTTNLFKDCSKSCLGYHPAHAPSFLAVDDKYKVNENLAVNLNICEPVLTYSRLISLMGFKLDLTLDGYSKLFITKDEAIKRVRGWVGFDVEGAHATRENIGTNFPLQIGFSTGVDFVVEATGLFAERDCYTFKKTVAKAPPGEKFKHLIPLMSKGQKWDIVRIRIVQMLSDYLLDLSDSVVFITWSASFELTCLRYFAKLGRELNCNVCSNRATCYNSRTGYYGCWRHSYTCDYVYNPLIVDIQQWGYTGSLTSNHDIICNVHKGAHVASADAIMTRCLAIYDCFCKSVNWNLEYPIISNEVSINTSCRLLQRVMLKAAMLCNRYNLCYDIGNPKGLACVKDYEFKFYDAFPVAKSVKQLFYVYDVHKDNFKDGLCMFWNCNVDKYPSNSIVCRFDTRVLNKLNLPGCNGGSLYVNKHAFHTNPFTRTVFENLKPMPFFYYSDTPCVYVDGLESKQVDYVPLRSATCITRCNLGGAVCSKHAEEYCNYLESYNIVTTAGFTFWVYKTFDFYNLWNTFTTLQSLENVIYNLVNVGHYDGRTGELPCAIMNDKVVVKINNVDTVIFKNNTSFPTNIAVELFTKRSIRHHPELKILRNLNIDICWKHVLWDYVKDSLFCSSTYGVCKYTDLKFIENLNILFDGRDTGALEAFRKARNGVFISTEKLSRLSMIKGPQRADLNGVIVDKVGELKVEFWFAMRKDGDDVIFSRTDSLCSSHYWSPQGNLGGNCAGNVIGNDALTRFTIFTQSRVLSSFEPRSDLERDFIDMDDNLFIAKYGLEDYAFDHIVYGSFNHKVIGGLHLLIGLFRRLKKSNLLIQEFLQYDSSIHSYFITDQECGSSKSVCTVIDLLLDDFVSIVKSLNLSCVSKVVNINVDFKDFQFMLWCNDNKIMTFYPKMQATNDWKPGYSMPVLYKYLNVPLERVSLWNYGKPINLPTGCMMNVAKYTQLCQYLNTTTLAVPVNMRVLHLGAGSDKEVAPGSAVLRQWLPSGSILVDNDLNPFVSDSLVTYFGDCMTLPFDCHWDLIISDMYDPLTKNIGDYNVSKDGFFTYICHLIRDKLSLGGSVAIKITEFSWNADLYKLMSCFAFWTVFCTNVNASSSEGFLIGINYLGKSSFEIDGNVMHANYLFWRNSTTWNGGAYSLFDMTKFSLKLAGTAVVNLRPDQLNDLVYSLIERGKLLVRDTRKEIFVGDSLVNTC |
| 3319 | sp|P57729|RAB38\_HUMAN | MQAPHKEHLYKLLVIGDLGVGKTSIIKRYVHQNFSSHYRATIGVDFALKVLHWDPETVVRLQLWDIAGQERFGNMTRVYYREAMGAFIVFDVTRPATFEAVAKWKNDLDSKLSLPNGKPVSVVLLANKCDQGKDVLMNNGLKMDQFCKEHGFVGWFETSAKENINIDEASRCLVKHILANECDLMESIEPDVVKPHLTSTKVASCSGCAKS |
| 3320 | sp|Q06609|RAD51\_HUMAN | MAMQMQLEANADTSVEEESFGPQPISRLEQCGINANDVKKLEEAGFHTVEAVAYAPKKELINIKGISEAKADKILAEAAKLVPMGFTTATEFHQRRSEIIQITTGSKELDKLLQGGIETGSITEMFGEFRTGKTQICHTLAVTCQLPIDRGGGEGKAMYIDTEGTFRPERLLAVAERYGLSGSDVLDNVAYARAFNTDHQTQLLYQASAMMVESRYALLIVDSATALYRTDYSGRGELSARQMHLARFLRMLLRLADEFGVAVVITNQVVAQVDGAAMFAADPKKPIGGNIIAHASTTRLYLRKGRGETRICKIYDSPCLPEAEAMFAINADGVGDAKD |
| 3321 | sp|P35284|RAB12\_RAT | MDPSAALHRRPAGGGLGAVSPALSGGQARRRKQPPRPADFKLQVIIIGSRGVGKTSLMERFTDDTFCEACKSTVGVDFKIKTVELRGKKIRLQIWDTAGQERFNSITSAYYRSAKGIILVYDITKKETFDDLPKWMKMIDKYASEDAELLLVGNKLDCETDREISRQQGEKFAQQITGMRFCEASAKDNFNVDEIFLKLVDDILKKMPLDVLRSELSNSILSLQPEPEIPPELPPPRPHVRCC |
| 3322 | sp|Q91V41|RAB14\_MOUSE | MATAPYNYSYIFKYIIIGDMGVGKSCLLHQFTEKKFMADCPHTIGVEFGTRIIEVSGQKIKLQIWDTAGQERFRAVTRSYYRGAAGALMVYDITRRSTYNHLSSWLTDARNLTNPNTVIILIGNKADLEAQRDVTYEEAKQFAEENGLLFLEASAKTGENVEDAFLEAAKKIYQNIQDGSLDLNAAESGVQHKPSAPQGGRLTSEPQPQREGCGC |
| 3323 | sp|Q64008|RAB34\_MOUSE | MNILAPVRRDRVLAELPQCLKKEAALHVRKDFHPRVTCACQEHRTGTVGFKISKVIVVGDLSVGKTCLINRFCKDTFDKNYKATIGVDFEMERFEVLGVPFSLQLWDTAGQERFKCIASTYYRGAQAIIIVFNLNDVASLEHTKQWLTDALKENDPSNVLLFLVGSKKDLSTPAQYSLMEKDALKVAQEIKAEYWAVSSLTGENVREFFFRVAALTFEANVLADVEKSGARHIADVVRINSDDKNLYLTASKKKATCCP |
| 3324 | sp|G3V9H8|RET\_RAT | MAKARSGAAGLGLKLFLLLPLLGEAPLGLYFSRDAYWERLYVDQPAGTPLLYVHALRDAPGEVPSFRLGQYLYGVYRTRLHENDWIHIDSGTGLLYLNQSLDHSSWEQLSIRNGGFPLLTVFLQVFLGSTAQREGECHWPGCARVYFSFINDTFPNCSSFKARDLCTPETGVSFRIRENRPPGTFYQFRMLPVQFLCPNISVKYKLLEGDGLPFRCDPDCLEVSTRWALDRELQEKYVLEAECAVAGPGANKEKVAVSFPVTVYDEDDSPPTFSGGVGTASAVVEFKRKEGTVVATLQVFDADVVPASGELVRRYTSTLLSGDSWAQQTFRVEHTPNETLVQSNNNSVRATMHNYKLVLNRSLSISESRVLQLVVLVNDSDFQGPGSGVLFLHFNVSVLPVTLNLPMAYSFPVNRRARRYAQIGKVCVENCQEFSGVSIQYKLQPSSTNCSALGVVTSTEDTSGTLYVNDTEALRRPECTELQYTVVATDRQTRRQTQASLVVTVEGTYIAEEVGCPKSCAVNKRRPECEECGGLGSPTGRCEWRQGDGKGITRNFSTCSPSTRTCPDGHCDALESRDINICPQDCLRGPIVGGHERGERQGIKAGYGICNCFPDEKKCFCEPEDSQGPLCDELCRTVITAAVLFSFIISVLLSTFCIHRYHKHAHKPPIASAEMTFCRPAQGFPISYSSSGTRRPSLDSMENQVSVDSFKIPEDPKWEFPRKNLVLGKTLGEGEFGKVVKATAFRLKGRAGYTTVAVKMLKENASQSELRDLLSEFNLLKQVNHPHVIKLYGACSQDGPLLLIVEYAKYGSLRGFLRDSRKIGPAYVSSGGSRNSSSLDHPDERVLTMGDLISFAWQISRGMQYLAEMKLVHRDLAARNILVAEGRKMKISDFGLSRDVYEEDSYVKKSKGRIPVKWMAIESLFDHIYTTQSDVWSFGVLLWEIVTLGGNPYPGIPPERLFNLLKTGHRMERPDNCSEEMYRLMLQCWKQEPDKRPVFADISKDLEKMMVKSRDYLDLAASTPSDSLLYDDGLSEEETPLVDCNSAPLPRSLPSTWIENKLYGMSDPNWPGESPVPLTRADGTSTGFPRYANDSVYANWMVSPSAAKLMDTFDS |
| 3325 | sp|Q6GYP7|RGPA1\_MOUSE | MFSKKPHGDVKKSTQKVLDTKKDALTRLKHLRIVIENAESIDLKQFFDQHFSHIYYVFFENFVTIEASLKQKGHKSQREELDAILFIFEKILQLLPERIHQRWQFHSIGLILKKLLHTGNSLKIRREGVRLFLLWLQALQDNCSKEQLWMFSCLIPGFSAPQSEYGPRTLDNLINPPLSLQETQVTIEEVTPLVPPQSGDKGQEDLTSYFLEALLKYIVIQVKSLEWKNKENQERGFSFLFSHFKKFYLPYIFPNICKENSLYHPVLDIPQIRPKPHYVMIKKDAETNETIYCTKEPFIQARVIVIRWLVSFWLEPKPHSGPNIPGMEGEVLPKNIQRAAASLVSREESKNDTVDKVDKSAEPEQSHSNTSTLTEREPSSSSLCSIDEEHLTDIEIVRRVFSSKRSNVNFVTEIFRQAFLLPICEAAAMRKVVKVYQEWIQQEEKPLFMQEPEDTAITCSDIPCSETVADHDSAIEDGEKREEENGTSTSEHVRNSSWTKNGSYQEAFHVCEEATEQNIQAGTQAVLQVFIINSSNIFLLEPANEIKNLLDEHTDMCKRILNIYRYMVVQVSMDKKTWEQMLLVLLRVTESVLKMSSQAFLQFQGKKSMTLAGRLAGPLFQTLIVAWIKANLNVYISRELWDDLLSVLSSLTYWEELATEWSLTMETLTKVLARNLYSLDLSDLPLDKLSEQKQKKHKGKGVGHEFQKVSVDKSFSRGWSRDQPGQAPMRQRSATTTGSPGTEKARSIVRQKTVDIDDAQILPRSTRVRHFSQSEDTGNEVFGALHEEQPLPRSSSTSDILEPFTVERAKVNKEDTSPKLPPLNSETGGNSANVPDLMDEFIAERLRSGNASTMTRRGSSPGSLEIPKDLPDILNKQNQMRPVDDPGVPSEWTSPASAGSSDLMSSDSHSDSFSAFQCEGRKFDNFGFGTDIGIPSSADVDLGSGHHQSTEEQEVASLTTLHLDSETSSLNQQAFSAEVATVTGSESASPVHSALGSRSQTPSPSTLSRAHIEQKDLQLDEKLHHSVLQTPDDLEISEFPSECCSVMAGGTLTGWHADVATVMWRRMLGILGDVNAIMDPEIHAQVFDYLCELWQNLAKIRDNLGISADNLTSPSPPVLIPPLRILTPWLFKATMLTDKYKQGKLHAYKLICNTMKRRQDVSPNRDFLTHFYNIMHCGLLHIDQDIVNTIIKHCSPQFFSLGLPGATMLIMDFIIAAGRVASSAFLNAPRVEAQVLLGSLVCFPNLYCELPALHPNIPDIAVSQFTDVKELIIKTVLSSARDEPSGPARCVALCSLGIWICEELVHESHHPQIKEALNVICVSLKFTNKTVAHVACNMLHMLVHYVPRLQIHQPQSPLKIIQILIATITHLLPSTEASSYEMDKRLVVSLLLCLLDWIMALPLKTLLQPVHATGAENDKTEKSVLNCIYKVLHGCVYGAQSFSNPKYFPISLSDLASVDYDPFMHLESLKEPEPLHSPDSERSSKLQPVTEVKTQMQQGLISIAARTVITHLVNHLGHYPMSGGPAMLTSQVCENHDNHYSESTELSPELFESPNIQFFVLNNTTLVSCIQIRSEESMPGGGLAAGLVSANSNVRIIVRDLSGKYSWDSAILYGPPIVSGLPEPTSFILSMSDQEKPEEPPTSNECLEDIAVKDGLSLQLRRFRETVPTWSTIREEEDVLDELLQYLGTTSPECLQRTGISLNVPAPQPLCISEKQENDVINAILKQYTEEKEFVEKHFNDLNMKASEQDEPTPQKPQSAFYYCRLLLSILGMNSWDKRRSFHLLKKNEKLLRELRNLDSRQCRETHKIAVFYVAEGQEDKYSILTNIGGSQAYEDFVAGLGWEVNLTNHCGFMGGLQKNRSTGLTTPYFATSTVEVIFHVSTRMPSDSDDSLTKKLRHLGNDEVHIVWSEHTRDYRRGIIPTEFGDVLIVIYPMKNHMFSIQIMKKPEVPFFGPLFDGAIVNGKVLPIMVRSTAINASRALKSLIPLYQNFYEERARYLQTIVQHHLEPTTFEDFAAQVFSPAPYHHFPADADH |
| 3326 | sp|P41220|RGS2\_HUMAN | MQSAMFLAVQHDCRPMDKSAGSGHKSEEKREKMKRTLLKDWKTRLSYFLQNSSTPGKPKTGKKSKQQAFIKPSPEEAQLWSEAFDELLASKYGLAAFRAFLKSEFCEENIEFWLACEDFKKTKSPQKLSSKARKIYTDFIEKEAPKEINIDFQTKTLIAQNIQEATSGCFTTAQKRVYSLMENNSYPRFLESEFYQDLCKKPQITTEPHAT |
| 3327 | sp|Q9LF53|RGL3\_ARATH | MKRSHQETSVEEEAPSMVEKLENGCGGGGDDNMDEFLAVLGYKVRSSDMADVAQKLEQLEMVLSNDIASSSNAFNDTVHYNPSDLSGWAQSMLSDLNYYPDLDPNRICDLRPITDDDECCSSNSNSNKRIRLGPWCDSVTSESTRSVVLIEETGVRLVQALVACAEAVQLENLSLADALVKRVGLLAASQAGAMGKVATYFAEALARRIYRIHPSAAAIDPSFEEILQMNFYDSCPYLKFAHFTANQAILEAVTTSRVVHVIDLGLNQGMQWPALMQALALRPGGPPSFRLTGVGNPSNREGIQELGWKLAQLAQAIGVEFKFNGLTTERLSDLEPDMFETRTESETLVVNSVFELHPVLSQPGSIEKLLATVKAVKPGLVTVVEQEANHNGDVFLDRFNEALHYYSSLFDSLEDGVVIPSQDRVMSEVYLGRQILNLVATEGSDRIERHETLAQWRKRMGSAGFDPVNLGSDAFKQASLLLALSGGGDGYRVEENDGSLMLAWQTKPLIAASAWKLAAELRR |
| 3328 | sp|Q96GF1|RN185\_HUMAN | MASKGPSASASPENSSAGGPSGSSNGAGESGGQDSTFECNICLDTAKDAVISLCGHLFCWPCLHQWLETRPNRQVCPVCKAGISRDKVIPLYGRGSTGQQDPREKTPPRPQGQRPEPENRGGFQGFGFGDGGFQMSFGIGAFPFGIFATAFNINDGRPPPAVPGTPQYVDEQFLSRLFLFVALVIMFWLLIA |
| 3329 | sp|P21513|RNE\_ECOLI | MKRMLINATQQEELRVALVDGQRLYDLDIESPGHEQKKANIYKGKITRIEPSLEAAFVDYGAERHGFLPLKEIAREYFPANYSAHGRPNIKDVLREGQEVIVQIDKEERGNKGAALTTFISLAGSYLVLMPNNPRAGGISRRIEGDDRTELKEALASLELPEGMGLIVRTAGVGKSAEALQWDLSFRLKHWEAIKKAAESRPAPFLIHQESNVIVRAFRDYLRQDIGEILIDNPKVLELARQHIAALGRPDFSSKIKLYTGEIPLFSHYQIESQIESAFQREVRLPSGGSIVIDSTEALTAIDINSARATRGGDIEETAFNTNLEAADEIARQLRLRDLGGLIVIDFIDMTPVRHQRAVENRLREAVRQDRARIQISHISRFGLLEMSRQRLSPSLGESSHHVCPRCSGTGTVRDNESLSLSILRLIEEEALKENTQEVHAIVPVPIASYLLNEKRSAVNAIETRQDGVRCVIVPNDQMETPHYHVLRVRKGEETPTLSYMLPKLHEEAMALPSEEEFAERKRPEQPALATFAMPDVPPAPTPAEPAAPVVAPAPKAAPATPAAPAQPGLLSRFFGALKALFSGGEETKPTEQPAPKAEAKPERQQDRRKPRQNNRRDRNERRDTRSERTEGSDNREENRRNRRQAQQQTAETRESRQQAEVTEKARTADEQQAPRRERSRRRNDDKRQAQQEAKALNVEEQSVQETEQEERVRPVQPRRKQRQLNQKVRYEQSVAEEAVVAPVVEETVAAEPIVQEAPAPRTELVKVPLPVVAQTAPEQQEENNADNRDNGGMPRRSRRSPRHLRVSGQRRRRYRDERYPTQSPMPLTVACASPELASGKVWIRYPIVRPQDVQVEEQREQEEVHVQPMVTEVPVAAAIEPVVSAPVVEEVAGVVEAPVQVAEPQPEVVETTHPEVIAAAVTEQPQVITESDVAVAQEVAEQAEPVVEPQEETADIEEVVETAEVVVAEPEVVAQPAAPVVAEVAAEVETVAAVEPEVTVEHNHATAPMTRAPAPEYVPEAPRHSDWQRPTFAFEGKGAAGGHTATHHASAAPARPQPVE |
| 3330 | sp|Q3U827|RN180\_MOUSE | MKRSEESTSTQSPEEQTGTLHCWRCRKCIASSGCFMTPLETQVVEQDRHESVDAQNTCHLWHMNVDALPEWISCLLQKAQWTVGKLNCPFCGARLGGFNFVSTPKCSCGQLAAVHLCKSRTDHQAAQGGRLMRPALKHLPHPGVPSGCDKETLLTGGGSKTRNHWLLSMARNSNGLGRLTEALCLEVRATYFEMKNEKLLFKASDPKCQPFVPQPDTGRCPSRASHRKSHSLDLNISEKLILLPTLYEIHRKPTAYPRLNETGPIDLSGLALPCSNSSCSFQSPPSFDPNMLLHRLSVAPHETQAQRGRECQCGLEASSVYSDHANANSLPFLMDLPSAGRSVLEASDQEEHLSQLDFLRSASFPLGTINHRLNNRERSKLRTLRRQQRRERWLQKQGKYSGVGLLDHMTVSNEMSTDEETEFPEEKDSYMCAVCLDVYFNPYMCYPCHHIFCEPCLRTLAKDNPASTPCPLCRTIISRVFLQTELNNATKTFFTKEYLKIKQSFQKSSSAKWPLPSCRKGFHLFGGFHRRAAPVTRRQFPHGAHRMDYLHFEDDSRGWWFDMDMVIIYIYSVNWVIGFVVFCFLCYFFFPF |
| 3331 | sp|Q13129|RLF\_HUMAN | MADGKGDAAAVAGAGAEAPAVAGAGDGVETESMVRGHRPVSPAPGASGLRPCLWQLETELREQEVSEVSSLNYCRSFCQTLLQYASNKNASEHIVYLLEVYRLAIQSFASARPYLTTECEDVLLVLGRLVLSCFELLLSVSESELPCEVWLPFLQSLQESHDALLEFGNNNLQILVHVTKEGVWKNPVLLKILSQQPVETEEVNKLIAQEGPSFLQMRIKHLLKSNCIPQATALSKLCAESKEISNVSSFQQAYITCLCSMLPNEDAIKEIAKVDCKEVLDIICNLESEGQDNTAFVLCTTYLTQQLQTASVYCSWELTLFWSKLQRRIDPSLDTFLERCRQFGVIAKTQQHLFCLIRVIQTEAQDAGLGVSILLCVRALQLRSSEDEEMKASVCKTIACLLPEDLEVRRACQLTEFLIEPSLDGFNMLEELYLQPDQKFDEENAPVPNSLRCELLLALKAHWPFDPEFWDWKTLKRHCHQLLGQEASDSDDDLSGYEMSINDTDVLESFLSDYDEGKEDKQYRRRDLTDQHKEKRDKKPIGSSERYQRWLQYKFFCLLCKRECIEARILHHSKMHMEDGIYTCPVCIKKFKRKEMFVPHVMEHVKMPPSRRDRSKKKLLLKGSQKGICPKSPSAIPEQNHSLNDQAKGESHEYVTFSKLEDCHLQDRDLYPCPGTDCSRVFKQFKYLSVHLKAEHQNNDENAKHYLDMKNRREKCTYCRRHFMSAFHLREHEQVHCGPQPYMCVSIDCYARFGSVNELLNHKQKHDDLRYKCELNGCNIVFSDLGQLYHHEAQHFRDASYTCNFLGCKKFYYSKIEYQNHLSMHNVENSNGDIKKSVKLEESATGEKQDCINQPHLLNQTDKSHLPEDLFCAESANSQIDTETAENLKENSDSNSSDQLSHSSSASMNEELIDTLDHSETMQDVLLSNEKVFGPSSLKEKCSSMAVCFDGTKFTCGFDGCGSTYKNARGMQKHLRKVHPYHFKPKKIKTKDLFPSLGNEHNQTTEKLDAEPKPCSDTNSDSPDEGLDHNIHIKCKREHQGYSSESSICASKRPCTEDTMLELLLRLKHLSLKNSITHGSFSGSLQGYPSSGAKSLQSVSSISDLNFQNQDENMPSQYLAQLAAKPFFCELQGCKYEFVTREALLMHYLKKHNYSKEKVLQLTMFQHRYSPFQCHICQRSFTRKTHLRIHYKNKHQIGSDRATHKLLDNEKCDHEGPCSVDRLKGDCSAELGGDPSSNSEKPHCHPKKDECSSETDLESSCEETESKTSDISSPIGSHREEQEGREGRGSRRTVAKGNLCYILNKYHKPFHCIHKTCNSSFTNLKGLIRHYRTVHQYNKEQLCLEKDKARTKRELVKCKKIFACKYKECNKRFLCSKALAKHCSDSHNLDHIEEPKVLSEAGSAARFSCNQPQCPAVFYTFNKLKHHLMEQHNIEGEIHSDYEIHCDLNGCGQIFTHRSNYSQHVYYRHKDYYDDLFRSQKVANERLLRSEKVCQTADTQGHEHQTTRRSFNAKSKKCGLIKEKKAPISFKTRAEALHMCVEHSEHTQYPCMVQGCLSVVKLESSIVRHYKRTHQMSSAYLEQQMENLVVCVKYGTKIKEEPPSEADPCIKKEENRSCESERTEHSHSPGDSSAPIQNTDCCHSSERDGGQKGCIESSSVFDADTLLYRGTLKCNHSSKTTSLEQCNIVQPPPPCKIENSIPNPNGTESGTYFTSFQLPLPRIKESETRQHSSGQENTVKNPTHVPKENFRKHSQPRSFDLKTYKPMGFESSFLKFIQESEEKEDDFDDWEPSEHLTLSNSSQSSNDLTGNVVANNMVNDSEPEVDIPHSSSDSTIHENLTAIPPLIVAETTTVPSLENLRVVLDKALTDCGELALKQLHYLRPVVVLERSKFSTPILDLFPTKKTDELCVGSS |
| 3332 | sp|P08518|RPB2\_YEAST | MSDLANSEKYYDEDPYGFEDESAPITAEDSWAVISAFFREKGLVSQQLDSFNQFVDYTLQDIICEDSTLILEQLAQHTTESDNISRKYEISFGKIYVTKPMVNESDGVTHALYPQEARLRNLTYSSGLFVDVKKRTYEAIDVPGRELKYELIAEESEDDSESGKVFIGRLPIMLRSKNCYLSEATESDLYKLKECPFDMGGYFIINGSEKVLIAQERSAGNIVQVFKKAAPSPISHVAEIRSALEKGSRFISTLQVKLYGREGSSARTIKATLPYIKQDIPIVIIFRALGIIPDGEILEHICYDVNDWQMLEMLKPCVEDGFVIQDRETALDFIGRRGTALGIKKEKRIQYAKDILQKEFLPHITQLEGFESRKAFFLGYMINRLLLCALDRKDQDDRDHFGKKRLDLAGPLLAQLFKTLFKKLTKDIFRYMQRTVEEAHDFNMKLAINAKTITSGLKYALATGNWGEQKKAMSSRAGVSQVLNRYTYSSTLSHLRRTNTPIGRDGKLAKPRQLHNTHWGLVCPAETPEGQACGLVKNLSLMSCISVGTDPMPIITFLSEWGMEPLEDYVPHQSPDATRVFVNGVWHGVHRNPARLMETLRTLRRKGDINPEVSMIRDIREKELKIFTDAGRVYRPLFIVEDDESLGHKELKVRKGHIAKLMATEYQDIEGGFEDVEEYTWSSLLNEGLVEYIDAEEEESILIAMQPEDLEPAEANEENDLDVDPAKRIRVSHHATTFTHCEIHPSMILGVAASIIPFPDHNQSPRNTYQSAMGKQAMGVFLTNYNVRMDTMANILYYPQKPLGTTRAMEYLKFRELPAGQNAIVAIACYSGYNQEDSMIMNQSSIDRGLFRSLFFRSYMDQEKKYGMSITETFEKPQRTNTLRMKHGTYDKLDDDGLIAPGVRVSGEDVIIGKTTPISPDEEELGQRTAYHSKRDASTPLRSTENGIVDQVLVTTNQDGLKFVKVRVRTTKIPQIGDKFASRHGQKGTIGITYRREDMPFTAEGIVPDLIINPHAIPSRMTVAHLIECLLSKVAALSGNEGDASPFTDITVEGISKLLREHGYQSRGFEVMYNGHTGKKLMAQIFFGPTYYQRLRHMVDDKIHARARGPMQVLTRQPVEGRSRDGGLRFGEMERDCMIAHGAASFLKERLMEASDAFRVHICGICGLMTVIAKLNHNQFECKGCDNKIDIYQIHIPYAAKLLFQELMAMNITPRLYTDRSRDF |
| 3333 | sp|Q9V6K3|ROR2\_DROME | MAAGQWVGVVERVLRGMVLKWGANLAVLGLCVFLFASATHANSLNAIEEPVTRRHHQRHHEREREENGYCAPYSGKVCKEYLTGQVWYSLEDPTGGWKNEQVTTALWDELISDLTGLCREAAEKMLCAYAFPNCHMEGGRAVKAPLCFEDCQATHLQFCYNDWVLIEEKKERNMFIKSRGHFRLPNCSSLPHYNASMRRPNCSYIGLTELKESEVSYDCRNGNGRFYMGTMNVSKSGIPCQRWDTQYPHKHFQPPLVFHQLLEGENYCRNAGGEEPHPWCYTVDESVRWQHCDIPMCPDYVDPNAVDLNTPIKMEKFFTPSMIFLLAGIGFVAIVTLHLMILLVYKLSKHKDYSQPAGAATAECSVSMRGGGDCGGNLNTSRETLGGNGNTNTLAKWGTIRSTATIHSNCVALTTVTNVSDAKGTKPNARLEKLEYPRGDIVYVRSLGQGAFGRVFQARAPGLVPDQEDLLVAVKMLKDDASDQMQMDFEREACLLAEFDHPNIVRLLGVCALGRPMCLLFEYMAPGDLSEFLRACSPYATHQAPTQDRLQLNELHLLQMAANIAAGMLYLSERKFVHRDLATRNCLINEHMAVKIADFGLSHKIYLQDYYKGDENDFIPIRWMPLESILYNKFSLESDVWAYGICLWEVFSFALQPYFGLTHEEVIKYIKEGNVLGCPDNTPLSVYALMRRCWNRKPSERPGFAEINHCIQHSIAESECKAML |
| 3334 | sp|O00411|RPOM\_HUMAN | MSALCWGRGAAGLKRALRPCGRPGLPGKEGTAGGVCGPRRSSSASPQEQDQDRRKDWGHVELLEVLQARVRQLQAESVSEVVVNRVDVARLPECGSGDGSLQPPRKVQMGAKDATPVPCGRWAKILEKDKRTQQMRMQRLKAKLQMPFQSGEFKALTRRLQVEPRLLSKQMAGCLEDCTRQAPESPWEEQLARLLQEAPGKLSLDVEQAPSGQHSQAQLSGQQQRLLAFFKCCLLTDQLPLAHHLLVVHHGQRQKRKLLTLDMYNAVMLGWARQGAFKELVYVLFMVKDAGLTPDLLSYAAALQCMGRQDQDAGTIERCLEQMSQEGLKLQALFTAVLLSEEDRATVLKAVHKVKPTFSLPPQLPPPVNTSKLLRDVYAKDGRVSYPKLHLPLKTLQCLFEKQLHMELASRVCVVSVEKPTLPSKEVKHARKTLKTLRDQWEKALCRALRETKNRLEREVYEGRFSLYPFLCLLDEREVVRMLLQVLQALPAQGESFTTLARELSARTFSRHVVQRQRVSGQVQALQNHYRKYLCLLASDAEVPEPCLPRQYWEELGAPEALREQPWPLPVQMELGKLLAEMLVQATQMPCSLDKPHRSSRLVPVLYHVYSFRNVQQIGILKPHPAYVQLLEKAAEPTLTFEAVDVPMLCPPLPWTSPHSGAFLLSPTKLMRTVEGATQHQELLETCPPTALHGALDALTQLGNCAWRVNGRVLDLVLQLFQAKGCPQLGVPAPPSEAPQPPEAHLPHSAAPARKAELRRELAHCQKVAREMHSLRAEALYRLSLAQHLRDRVFWLPHNMDFRGRTYPCPPHFNHLGSDVARALLEFAQGRPLGPHGLDWLKIHLVNLTGLKKREPLRKRLAFAEEVMDDILDSADQPLTGRKWWMGAEEPWQTLACCMEVANAVRASDPAAYVSHLPVHQDGSCNGLQHYAALGRDSVGAASVNLEPSDVPQDVYSGVAAQVEVFRRQDAQRGMRVAQVLEGFITRKVVKQTVMTVVYGVTRYGGRLQIEKRLRELSDFPQEFVWEASHYLVRQVFKSLQEMFSGTRAIQHWLTESARLISHMGSVVEWVTPLGVPVIQPYRLDSKVKQIGGGIQSITYTHNGDISRKPNTRKQKNGFPPNFIHSLDSSHMMLTALHCYRKGLTFVSVHDCYWTHAADVSVMNQVCREQFVRLHSEPILQDLSRFLVKRFCSEPQKILEASQLKETLQAVPKPGAFDLEQVKRSTYFFS |
| 3335 | sp|P39019|RS19\_HUMAN | MPGVTVKDVNQQEFVRALAAFLKKSGKLKVPEWVDTVKLAKHKELAPYDENWFYTRAASTARHLYLRGGAGVGSMTKIYGGRQRNGVMPSHFSRGSKSVARRVLQALEGLKMVEKDQDGGRKLTPQGQRDLDRIAGQVAAANKKH |
| 3336 | sp|Q9Z2J9|RUNX2\_RAT | MLHSPHKQPQNHKCGANFLQEDSKEALVFKWLISAGHYQPPRPTESVSALSTVHAVIFKAASSIYNRGHKFYLEKKGGTMASNSLFSAVTPCQQSFFWNKTLPVAFKVVALGEVPDGTVVTVMAGNDENYSAELRNASAVMKNQVARFNDLRFVGRSGRGKSFTLTITVFTNPPQVATYHRAIKVTVDGPREPRRHRQKLDDSKPSLFSDRLSDLGRI |
| 3337 | sp|P39406|RSMC\_ECOLI | MSAFTPASEVLLRHSDDFEQSRILFAGDLQDDLPARLDTAASRAHTQQFHHWQVLSRQMGDNARFSLVATADDVADCDTLIYYWPKNKPEAQFQLMNLLSLLPVGTDIFVVGENRSGVRSAEQMLADYAPLNKVDSARRCGLYFGRLEKQPVFDAEKFWGEYSVDGLTVKTLPGVFSRDGLDVGSQLLLSTLTPHTKGKVLDVGCGAGVLSVAFARHSPKIRLTLCDVSAPAVEASRATLAANGVEGEVFASNVFSEVKGRFDMIISNPPFHDGMQTSLDAAQTLIRGAVRHLNSGGELRIVANAFLPYPDVLDETFGFHEVIAQTGRFKVYRAIMTRQAKKG |
| 3338 | sp|Q8BHK3|S36A2\_MOUSE | MSVTKSARSPQVATPLNLDLPESAKKLQSQDPSPANGSSSESSKKTKGITGFQTLVHLVKGNMGTGILGLPLAVKNAGILMGPLSLLVMGLIACHCMHILVRCAQRFCHRLNKPFMDYGDTVMHGLAFSPNAWLQNHAHWGRRVVSFFLIVTQLGFCCVYIVFLADNLKQVVEAVNSTTISCHKNETVVLTPTMDSRLYMLSFLPVLGLLVFVRNLRVLTIFSLLANISMLVSLVIIAQYIIQEIPDASQLPLVASWKTYPLFFGTAIFSFESIGVVLPLENKMKDARGFPTILSLGMSIITTLYIAIGALGYLRFGDDIKASITLNLPNCWLYQSVKLLYVVGILCTYALQFYVPAEIIIPLAVSQVSKRWALPVDLSIRLALVCLTCMLAILIPRLDLVLSLVGSVSSSALALIIPPLLEVVTYYGEGISPLTVTKDALISILGFMGFVVGTYQALDELIKSGNSPALSNSTMFIQ |
| 3339 | sp|Q8K4D3|S36A1\_MOUSE | MSTQRLRNEDYHDYSSTDVSPEESPSEGLGSFSPGSYQRLGENSSMTWFQTLIHLLKGNIGTGLLGLPLAVKNAGLLLGPLSLLVIGIVAVHCMGILVKCAHHLCRRLNKPFLDYGDTVMYGLECSPSTWVRNHSHWGRRIVDFFLIVTQLGFCCVYFVFLADNFKQVIEAANGTTTNCNNNVTVIPTPTMDSRLYMLSFLPFLVLLSFIRNLRVLSIFSLLANISMFVSLIMIYQFIVQRIPDPSHLPLVAPWKTYPLFFGTAIFAFEGIGVVLPLENKMKDSQKFPLILYLGMAIITVLYISLGSLGYLQFGANIKGSITLNLPNCWLYQSVKLLYSIGIFFTYALQFYVAAEIIIPAIVSRVPEHFELMVDLCVRTAMVCVTCVLAILIPRLDLVISLVGSVSSSALALIIPPLLEVVTYYGEGISPLTVTKDALISILGFVGFVVGTYESLCELIQPSHSDSSTNSTSAFI |
| 3340 | sp|Q924A5|S36A1\_RAT | MSTQRLRNEDYHDYSSTDVSPEESPSEGLGSFSPGSYQRLGENSSMTWFQTLIHLLKGNIGTGLLGLPLAVKNAGLLLGPLSLLVIGIVAVHCMGILVKCAHHLCRRLNKPFLDYGDTVMYGLECSPSTWIRNHSHWGRRIVDFFLVVTQLGFCCVYFVFLADNFKQVIEAANGTTTNCNNNETVILTPTMDSRLYMLTFLPFLVLLSFIRNLRILSIFSLLANISMFVSLIMIYQFIVQRIPDPSHLPLVAPWKTYPLFFGTAIFAFEGIGVVLPLENKMKDSQKFPLILYLGMAIITVLYISLGSLGYLQFGADIKGSITLNLPNCWLYQSVKLLYSIGIFFTYALQFYVAAEIIIPAIVSRVPERFELVVDLSARTAMVCVTCVLAVLIPRLDLVISLVGSVSSSALALIIPPLLEVTTYYGEGISPLTITKDALISILGFVGFVVGTYESLWELIQPSHSDSSTNSTSAFI |
| 3341 | sp|Q9D9X8|SACA3\_MOUSE | MGICMSMYTQVLVPVDADGDHHILWSRFYERWGSCFNPCAGLVNCLPPHSSALYLCHRMEARSRAPRRQLCPPGITWLALAYLLSCLLASSKAKVFSRCELAKEMHDFGLDGYRGYNLADWVCLAYYTSGFNTNAVDHEADGSTNNGIFQISSRRWCRTLASNGPNLCRIYCTDLLNNDLKDSIVCAMKIVQEPLGLGYWEAWRHHCQGRDLSDWVDGCDF |
| 3342 | sp|P53790|SC5A1\_RAT | MDSSTLSPAVTATDAPIQSYERIRNAADISVIVIYFVVVMAVGLWAMFSTNRGTVGGFFLAGRSMVWWPIGASLFASNIGSGHFVGLAGTGAAAGIAMGGFEWNALVFVVVLGWLFVPIYIKAGVVTMPEYLRKRFGGKRIQIYLSVLSLLLYIFTKISADIFSGAIFINLALGLDIYLAIFILLAITALYTITGGLAAVIYTDTLQTAIMLVGSFILTGFAFREVGGYEAFMDKYMKAIPTLVSDGNITVKEECYTPRADSFHIFRDPITGDMPWPGLIFGLSILALWYWCTDQVIVQRCLSAKNMSHVKAGCTLCGYLKLLPMFLMVMPGMISRILYTDKIACVLPSECKKYCGTPVGCTNIAYPTLVVELMPNGLRGLMLSVMMASLMSSLTSIFNSASTLFTMDIYTKIRKGASEKELMIAGRLFILVLIGISIAWVPIVQSAQSGQLFDYIQSITSYLGPPIAAVFLLAIFCKRVNEPGAFWGLILGFLIGISRMITEFAYGTGSCMEPSNCPKIICGVHYLYFAIILFAISVVTVLVISLLTKPIPDVHLYRLCWSLRNSTEERIDLDAGEEEPVEEDPKDTIEIDAEAPQKEKGCFRKAYDLFCGLDQDKGPKMTKEEEEAMKLKMTDTSEKPLWRTVVNINGIILLAVAVFCHAYFA |
| 3343 | sp|I3L5V6|SARM1\_PIG | MVLTILFSAYKLCRFFAMSSPRPGAERLAVPGPDGGGGAGPWWTAGGRGPREVSPGVGAEVQGALERALPELQQALSALKQAGGGRAVGAGLAEVFQLVEEAWLLPAMGREVAQGLCDAIRLEGGLDLLLRLLQAPELETRVQAARLLEQILVAENRRDRVARIGLGVILNLAKEREPVELARSVAGILEHMFKHSEETCQRLVAAGGLDAVLYWCRRTDPALLRHCALALANCAMHGGQAAQRRMVEKRAAEWLFPLAFSKEDELLRLHACLAVAVLATNKEVEREVERSGTLALVEPLVASLDPGRFARCLVDASDTSQGRGPDDLQRLVPLLDSSRMEAQCIGAFYLCAEAVIMHIKNRNKVFSDIGAIQSLKRLVSYSTNGTTSALAKRALRLLGEEVPRPILPCVASWKEAEVQTWLQQIGFSQYCESFREQQVDGDLLLRLTEEELQTDLGMKSGITRKRFFRELTELKTFANYATCDRSNLADWLGSLDPRFRQYTYGLVSCGLDRSLLHRVSEQQLLEDCGIRLGVHRVRILTAAREMLHSPLPCTGSKPSGDVPDVFISYRRNSGSQLASLLKVHLQLHGFSVFIDVEKLEAGKFEDKLIQSIMSARNFVLVLSAGALDKCMQDHDCKDWVHKEIVTALSCGKNIVPVIDGFEWPEPHTLPEDMQAVLTFNGIKWSHEYQEATIEKIIRFLQGRSSRDSSAGSDTSLEGAAPMGPT |
| 3344 | sp|P39770|SALM\_DROME | MKNHLSNVLCAMRSDFKDNHQETINKMIQFGTVKYGIVKQLKDRARSADKDIGSDQEENGGCSPLTTATTTASPSRSPEPEEEQPEEQSTSEQSIPEQSTPDHQLENDIKSEAKSEIEPVEDNNNRVAMTKPSSEEREPNASGSMPSSPVAEASAEEAATERTPEKEKEKDVEVDVEKPDEAPSSAVPSTEVTLPGGAGAPVTLEAIQNMQMAIAQFAAKTIANGSNGADNEAAMKQLAFLQQTLFNLQQQQLFQIQLIQQLQSQLALNQAKQEEDTEEDADQEQDQEQETDTYEEEERIADMELRQKAEARMAEAKARQHLINAGVPLRESSGSPAESLKRRREHDHESQPNRRPSLDNTHKADTAQDALAKLKEMENTPLPFGSDLASSIITNHDDLPEPNSLDLLQKRAQEVLDSASQGILANSMADDFAFGEKSGEGKGRNEPFFKHRCRYCGKVFGSDSALQIHIRSHTGERPFKCNVCGSRFTTKGNLKVHFQRHAQKFPHVPMNATPIPEHMDKFHPPLLDQMSPTDSSPNHSPAPPPLGSAPASFPPAFPGLQNLYRPPMEILKSLGAAAPHQYFPQELPTDLRKPSPQLDEDEPQVKNEPVEEKDQREEHEQEMAECSEPEPEPLPLEVRIKEERVEEQEQVKQEDHRIEPRRTPSPSSEHRSPHHHRHSHMGYPPVVQPIQPAALMHPQSSPGSQSHLDHLPTPGQLPPREDFFAERFPLNFTTAKMLSPEHHSPVRSPAGGALPPGVPPPPHHHPHHMARSPFFNPIKHEMAALLPRPHSNDNSWENFIEVSNTCETMKLKELMKNKKISDPNQCVVCDRVLSCKSALQMHYRTHTGERPFKCRICGRAFTTKGNLKTHMAVHKIRPPMRNFHQCPVCHKKYSNALVLQQHIRLHTGEPTDLTPEQIQAAEIRDPPPSMMPGHFMNPFAAAAFHFGALPGGPGGPPGPNHGAHNGALGSESSQGDMDDNMDCGEDYDDDVSSEHLSNSNLEQEGDRSRSGDDFKSLLFEQKLRIDATGVVNTNPVRPRSSASSHGHSVGSTSAPTSPSVHASSQVIKRSSSPARSEASQGALDLTPRAAPTSSSSSRSPLPKEKPVSPPSLPRSPSGSSHASANILTSPLPPTVGIDCLPPGLQHHLQQQHQHLMQQQAAVAAAAAAQHHHHQQMAALHQHQEQLRREAAEAQQKAAAAAAAAAAAAAAQRQTPPQARDQRQEGGPGAGPPPNPLMGARPPFGMFPNLPLFPPATTQNMCNAMNQIAQSVMPAAPFNPLALSGVRGSTTCGICYKTFPCHSALEIHYRSHTKERPFKCSICDRGFTTKGNLKQHMLTHKIRDMEQETFRNRAVKYMSEWNEDRE |
| 3345 | sp|Q8NBW4|S38A9\_HUMAN | MANMNSDSRHLGTSEVDHERDPGPMNIQFEPSDLRSKRPFCIEPTNIVNVNHVIQRVSDHASAMNKRIHYYSRLTTPADKALIAPDHVVPAPEECYVYSPLGSAYKLQSYTEGYGKNTSLVTIFMIWNTMMGTSILSIPWGIKQAGFTTGMCVIILMGLLTLYCCYRVVKSRTMMFSLDTTSWEYPDVCRHYFGSFGQWSSLLFSLVSLIGAMIVYWVLMSNFLFNTGKFIFNFIHHINDTDTILSTNNSNPVICPSAGSGGHPDNSSMIFYANDTGAQQFEKWWDKSRTVPFYLVGLLLPLLNFKSPSFFSKFNILGTVSVLYLIFLVTFKAVRLGFHLEFHWFIPTEFFVPEIRFQFPQLTGVLTLAFFIHNCIITLLKNNKKQENNVRDLCIAYMLVTLTYLYIGVLVFASFPSPPLSKDCIEQNFLDNFPSSDTLSFIARIFLLFQMMTVYPLLGYLARVQLLGHIFGDIYPSIFHVLILNLIIVGAGVIMACFYPNIGGIIRYSGAACGLAFVFIYPSLIYIISLHQEERLTWPKLIFHVFIIILGVANLIVQFFM |
| 3346 | sp|Q9Y3A5|SBDS\_HUMAN | MSIFTPTNQIRLTNVAVVRMKRAGKRFEIACYKNKVVGWRSGVEKDLDEVLQTHSVFVNVSKGQVAKKEDLISAFGTDDQTEICKQILTKGEVQVSDKERHTQLEQMFRDIATIVADKCVNPETKRPYTVILIERAMKDIHYSVKTNKSTKQQALEVIKQLKEKMKIERAHMRLRFILPVNEGKKLKEKLKPLIKVIESEDYGQQLEIVCLIDPGCFREIDELIKKETKGKGSLEVLNLKDVEEGDEKFE |
| 3347 | sp|Q9N0E3|RTN4R\_MACFA | MKRASAGGSRLLAWVLWLQAWRVAAPCPGACVCYNEPKVTTSCPQQGLQAVPAGIPASSQRIFLHGNRISHVPAASFRACRNLTILWLHSNVLARIDAAAFAGLALLEQLDLSDNAQLRSVDPATFHGLGRLHTLHLDRCGLQELGPGLFRGLAALQYLYLQDNALQALPDDTFRDLGNLTHLFLHGNRISSVPERAFRGLHSLDRLLLHQNRVAHVHPHAFRDLGRLMTLYLFRNNLSALPAEALAPLRALQYLRLNDNPWVCDCRARPLWAWLQKFRGSSSEVPCSLPQRLAGRDLKRLAANDLQGCAVATGPCHPIWTGRATDEELLGLPKCCQPDAADKASVLEPGRPASAGNALKGRVPPGDSPPGNGSGPRHINDSPFGTLPGSAEPPLTAVRPEGSEPPGFPTSGPRRRPGCSRKNRTRSHCRLGQAGSGGGGTGDSEGSGALPSLACSLAPLGLALVLWTVLGPC |
| 3348 | sp|A0A0G2KQY6|S39AE\_DANRE | MTLRRASGCRQLTLTIGLALTLGLLQWPIGDVRGQDGASPAQVLQELLTRYGDNASISVPQLRSLLVRLNGGQSEDHDSKTQPTRTNASKCLAADTLAVYGMSEQSRIDERGLQQICPTMIQQLDSQACKTQPNQESESSPRPTEAEVWGYGLLCVTVISLCSLVGASVVPFMRKTFYKRLLLYFIALAIGTLYSNALFQLIPEAFGFDPMEDYYVPKSAVVFGGFYLFFFTEKILKMILKPKDTGGHGHGHSHFPAERYANSNGDLEDGVMEKLQNGEAGGAALPRAEADGRGVGEDDKMLSTGQTVQDTQSSGGGGTGGCYWLKGRAYSDIGTLAWMITLSDGLHNFIDGLAIGASFTASVFQGISTSVAILCEEFPHELGDFVILLNAGMSIQQALFFNFLSACCCYLGMGFGILAGNNFSPNWIFALAGGMFLYIALADMFPEMNEVSREEEEAGGSGFLLTFALQNAGLLTGFAIMLVLTIYSGQIQLG |
| 3349 | sp|O22456|SEP3\_ARATH | MGRGRVELKRIENKINRQVTFAKRRNGLLKKAYELSVLCDAEVALIIFSNRGKLYEFCSSSSMLRTLERYQKCNYGAPEPNVPSREALAVELSSQQEYLKLKERYDALQRTQRNLLGEDLGPLSTKELESLERQLDSSLKQIRALRTQFMLDQLNDLQSKERMLTETNKTLRLRLADGYQMPLQLNPNQEEVDHYGRHHHQQQQHSQAFFQPLECEPILQIGYQGQQDGMGAGPSVNNYMLGWLPYDTNSI |
| 3350 | sp|Q9UBT2|SAE2\_HUMAN | MALSRGLPRELAEAVAGGRVLVVGAGGIGCELLKNLVLTGFSHIDLIDLDTIDVSNLNRQFLFQKKHVGRSKAQVAKESVLQFYPKANIVAYHDSIMNPDYNVEFFRQFILVMNALDNRAARNHVNRMCLAADVPLIESGTAGYLGQVTTIKKGVTECYECHPKPTQRTFPGCTIRNTPSEPIHCIVWAKYLFNQLFGEEDADQEVSPDRADPEAAWEPTEAEARARASNEDGDIKRISTKEWAKSTGYDPVKLFTKLFKDDIRYLLTMDKLWRKRKPPVPLDWAEVQSQGEETNASDQQNEPQLGLKDQQVLDVKSYARLFSKSIETLRVHLAEKGDGAELIWDKDDPSAMDFVTSAANLRMHIFSMNMKSRFDIKSMAGNIIPAIATTNAVIAGLIVLEGLKILSGKIDQCRTIFLNKQPNPRKKLLVPCALDPPNPNCYVCASKPEVTVRLNVHKVTVLTLQDKIVKEKFAMVAPDVQIEDGKGTILISSEEGETEANNHKKLSEFGIRNGSRLQADDFLQDYTLLINILHSEDLGKDVEFEVVGDAPEKVGPKQAEDAAKSITNGSDDGAQPSTSTAQEQDDVLIVDSDEEDSSNNADVSEEERSRKRKLDEKENLSAKRSRIEQKEELDDVIALD |
| 3351 | sp|Q68FX9|SIR5\_RAT | MRPLPVAPGRLFSQLCCGPKPSASPQSKICLTMARPSSNMADFRKCFANAKHIVIISGAGVSAESGVPTFRGTGGYWRKWQAQHLATPLAFAHNPSQVWEFYHYRREVMRNKEPNPGHLAIAQCEARLRDQGRRVVVITQNIDELHRKAGTKNLLEIHGTLFKTRCTSCGNVAENYKSPICPALLGKGAPEPDTQESRIPVHKLPRCEEAGCGGLLRPHVVWFGENLDPAILKEVDRELARCDLCLVVGTSSVVYPAAMFAPQVASRGVPVAEFNMETTPATNRFRFHFPGPCGVTLPEALAPHETERIS |
| 3352 | sp|B5DFN2|SAHH2\_RAT | MQEFTKFPTKTGRRSLSRSISQSSTDSYSSAASYTDSSDDEVSPREKQQTNSKGSSNFCVKNIKQAEFGRREIEIAEQDMSALISLRKRAQGEKPLAGAKIVGCTHITAQTAVLIETLCALGAQCRWSACNIYSTQNEVAAALAEAGVAVFAWKGESEDDFWWCIDRCVNMDGWQANMILDDGGDLTHWVYKKYPNVFKKIRGIVEESVTGVHRLYQLSKAGKLCVPAMNVNDSVTKQKFDNLYCCRESILDGLKRTTDVMFGGKQVVVCGYGEVGKGCCAALKALGAIVYITEIDPICALQACMDGFRVVKLNEVIRQVDVVITCTGNKNVVTREHLDRMKNSCIVCNMGHSNTEIDVTSLRTPELTWERVRSQVDHVIWPDGKRVVLLAEGRLLNLSCSTVPTFVLSITATTQALALIELYNAPEGRYKQDVYLLPKKMDEYVASLHLPSFDAHLTELTDDQAKYLGLNKNGPFKPNYYRY |
| 3353 | sp|P31648|SC6A1\_MOUSE | MATDNSKVADGQISTEVSEAPVASDKPKTLVVKVQKKAGDLPDRDTWKGRFDFLMSCVGYAIGLGNVWRFPYLCGKNGGGAFLIPYFLTLIFAGVPLFLLECSLGQYTSIGGLGVWKLAPMFKGVGLAAAVLSFWLNIYYIVIISWAIYYLYNSFTTTLPWKQCDNPWNTDRCFSNYSLVNTTNMTSAVVEFWERNMHQMTDGLDKPGQIRWPLAITLAIAWVLVYFCIWKGVGWTGKVVYFSATYPYIMLIILFFRGVTLPGAKEGILFYITPNFRKLSDSEVWLDAATQIFFSYGLGLGSLIALGSYNSFHNNVYRDSIIVCCINSCTSMFAGFVIFSIVGFMAHVTKRSIADVAASGPGLAFLAYPEAVTQLPISPLWAILFFSMLLMLGIDSQFCTVEGFITALVDEYPRLLRNRRELFIAAVCIVSYLIGLSNITQGGIYVFKLFDYYSASGMSLLFLVFFECVSISWFYGVNRFYDNIQEMVGSRPCIWWKLCWSFFTPIIVAGVFLFSAVQMTPLTMGSYVFPKWGQGVGWLMALSSMVLIPGYMAYMFLTLKGSLKQRLQVMIQPSEDIVRPENGPEQPQAGSSASKEAYI |
| 3354 | sp|Q923E4|SIR1\_MOUSE | MADEVALALQAAGSPSAAAAMEAASQPADEPLRKRPRRDGPGLGRSPGEPSAAVAPAAAGCEAASAAAPAALWREAAGAAASAEREAPATAVAGDGDNGSGLRREPRAADDFDDDEGEEEDEAAAAAAAAAIGYRDNLLLTDGLLTNGFHSCESDDDDRTSHASSSDWTPRPRIGPYTFVQQHLMIGTDPRTILKDLLPETIPPPELDDMTLWQIVINILSEPPKRKKRKDINTIEDAVKLLQECKKIIVLTGAGVSVSCGIPDFRSRDGIYARLAVDFPDLPDPQAMFDIEYFRKDPRPFFKFAKEIYPGQFQPSLCHKFIALSDKEGKLLRNYTQNIDTLEQVAGIQRILQCHGSFATASCLICKYKVDCEAVRGDIFNQVVPRCPRCPADEPLAIMKPEIVFFGENLPEQFHRAMKYDKDEVDLLIVIGSSLKVRPVALIPSSIPHEVPQILINREPLPHLHFDVELLGDCDVIINELCHRLGGEYAKLCCNPVKLSEITEKPPRPQKELVHLSELPPTPLHISEDSSSPERTVPQDSSVIATLVDQATNNNVNDLEVSESSCVEEKPQEVQTSRNVENINVENPDFKAVGSSTADKNERTSVAETVRKCWPNRLAKEQISKRLEGNQYLFVPPNRYIFHGAEVYSDSEDDVLSSSSCGSNSDSGTCQSPSLEEPLEDESEIEEFYNGLEDDTERPECAGGSGFGADGGDQEVVNEAIATRQELTDVNYPSDKS |
| 3355 | sp|O49485|SERA1\_ARATH | MSATAAASSSIAVATNSLRNVTLSSRSPLPSAISVAFPSRGRNTLQRRLVLVSCSTGDGSKPTILVAEKLGDAGIKLLEDVANVDCSYNMTPEELNIKISLCDALIVRSGTKVGREVFESSHGRLKVVGRAGVGIDNVDLSAATEFGCLVVNAPTANTIAAAEHGIALMAAMARNVAQADASVKAGEWKRNKYVGVSLVGKTLAVLGFGKVGTEVARRAKGLGMRVIAHDPYAPADRAHAIGVDLVSFDEALATADFISLHMPLTPTTSKILNDETFAKMKKGVRIVNVARGGVIDEDALVRALDAGIVAQAALDVFTKEPPAKDSKLVQHERVTVTPHLGASTMEAQEGVAIEIAEAVVGALNGELAATAVNAPMVSAEVLTELKPYVVLAEKLGRLAVQLVAGGSGVKNAKITYASARATDDLDTRLLRAMITKGIIEPISDVYVNLVNADFTAKQRGLRLSEERVLLDGSPESPLETITVQLSNVESKFASSLSESGEVKVEGKVKDGVPHLTKVGSFEVDVTLEGSIILCRQVDQPGMIGTVGSILGESNVNVNFMSVGRIAPRKQAIMAIGVDDIPSKETLKKIGEIPAVEEFVFLKL |
| 3356 | sp|P30052|SCAL\_DROME | MKNITSSSTCSTGLLQLQNNLSCSELEVAEKTEQQAVGPGTIPSPWTPVNAGPPGALGSADTNGSMVDSKNLDVGDMSDDEKDLSSADAEGVWSPDIEQSFQEALSIYPPCGRRKIILSDEGKMYGRNELIARYIKLRTGKTRTRKQVSSHIQVLARRKLREIQAKIKVQFWQPGLQPSTSQDFYDYSIKPFPQPPYPAGKTSTAVSGDETGIPPSQLPWEGRAIATHKFRLLEFTAFMEIQRDEIYHRHLFVQLGGKPSFSDPLLETVDIRQIFDKFPEKSGGLKDLYEKGPQNAFYLVKCWADLNTDLTTGSETGDFYGVTSQYESNENVVLVCSTIVCSFGKQVVEKVESEYSRLENNRYVYRIQRSPMCEYMINFIQKLKNLPERYMMNSVLENFTILQVMRARETQETLLCIAYVFEVAAQNSGTTHHIYRLIKE |
| 3357 | sp|Q75NZ0|SIR\_PEA | MTTSFAAAALRDPKLQIPNYHGLRSSSAASSLSRNALSVPSSTRSSSLIRAVSTPAKSETATEKKRSKVEIFKEQSNFIRYPLNEDMLTDAPNLSEAATQLIKFHGSYQQYNRDERGSRTYSFMIRTKNPCGKVSNQLYLTMDDLADQFGIGTLRLTTRQTFQLHGVVKKDLKTVMGSIIRNMGSSLGACGDLNRNVLAPAAPIVSKDYLFAQETSENIAALLTPQSGFYYDVWVDGERFMSAEPPEVIQARNDNSHGTNFTDSPEPIYGTQFLPRKFKIAVTVPTDNSVDILTNDIGVVVVTGDGGEPQGFNLYVGGGMGRTHRMETTFPRLAEPLGYVPKEDILYAVKAIVVTQRENGRRDDRRYSRMKYLIDSWGIDKFRNVVEEYYGKKFEPFRSLPEWEFKSYLGWHQQGDGGLFCGLHVDNGRIAGKMKTALREVIEKYHLNVRLTPNQNLILTDIRAAWKRPITTILSQAGLLLPRYVDPLNITAMACPAFPLCPLAITEAERGIPSILKRIRDMFEKVGLKYNESVVVRITGCPNGCARPYMAELGLVGDGPNSYQIWLGGSSNQTSIARSFMDKVKPQDLEKVLEPLFYHWKQKRQSKESFGDFTVRLGFEKLKEFIEKWEGPAVPPTRHNLKLFTDKDTYEAMDGLAKLQNKNAHQLAMEVVRNYIASNLNGKGE |
| 3358 | sp|Q4R834|SIR2\_MACFA | MAEPDPSHPLETQAGKVQEAQDSDSDSEGGAAGGEADMDFLRNLFSQTLSLGSQKERLLDELTLEGVARYMQSERCRRVICLVGAGISTSAGIPDFRSPSTGLYDNLEKYHLPYPEAIFEISYFKKHPEPFFALAKELYPGQFKPTICHYFMRLLKDKGLLLRCYTQNIDTLERIAGLEQEDLVEAHGTFYTSHCVSASCRHEYPLSWMKEKIFSEVTPKCEDCQSLVKPDIVFFGESLPARFFSCMQSDFLKVDLLLVMGTSLQVQPFASLISKAPLSTPRLLINKEKAGQSDPFLGMILGLGGGMDFDSKKAYRDVAWLGDCDQGCLALAELLGWKKELEDLVRREHASIDAQSGAEAPNPSTSASPRKSPPPAQDEARTTEREKPQ |
| 3359 | sp|O15266|SHOX\_HUMAN | MEELTAFVSKSFDQKSKDGNGGGGGGGGKKDSITYREVLESGLARSRELGTSDSSLQDITEGGGHCPVHLFKDHVDNDKEKLKEFGTARVAEGIYECKEKREDVKSEDEDGQTKLKQRRSRTNFTLEQLNELERLFDETHYPDAFMREELSQRLGLSEARVQVWFQNRRAKCRKQENQMHKGVILGTANHLDACRVAPYVNMGALRMPFQQVQAQLQLEGVAHAHPHLHPHLAAHAPYLMFPPPPFGLPIASLAESASAAAVVAAAAKSNSKNSSIADLRLKARKHAEALGL |
| 3360 | sp|Q9H788|SH24A\_HUMAN | MLKQILSEMYIDPDLLAELSEEQKQILFFKMREEQIRRWKEREAAMERKESLPVKPRPKKENGKSVHWKLGADKEVWVWVMGEHHLDKPYDVLCNEIIAERARLKAEQEAEEPRKTHSEEFTNSLKTKSQYHDLQAPDNQQTKDIWKKVAEKEELEQGSRPAPTLEEEKIRSLSSSSRNIQQMLADSINRMKAYAFHQKKESMKKKQDEEINQIEEERTKQICKSWKEDSEWQASLRKSKAADEKRRSLAKQAREDYKRLSLGAQKGRGGERLQSPLRVPQKPERPPLPPKPQFLNSGAYPQKPLRNQGVVRTLSSSAQEDIIRWFKEEQLPLRAGYQKTSDTIAPWFHGILTLKKANELLLSTGMPGSFLIRVSERIKGYALSYLSEDGCKHFLIDASADAYSFLGVDQLQHATLADLVEYHKEEPITSLGKELLLYPCGQQDQLPDYLELFE |
| 3361 | sp|Q9BWJ5|SF3B5\_HUMAN | MTDRYTIHSQLEHLQSKYIGTGHADTTKWEWLVNQHRDSYCSYMGHFDLLNYFAIAENESKARVRFNLMEKMLQPCGPPADKPEEN |
| 3362 | sp|Q96LD8|SENP8\_HUMAN | MDPVVLSYMDSLLRQSDVSLLDPPSWLNDHIIGFAFEYFANSQFHDCSDHVSFISPEVTQFIKCTSNPAEIAMFLEPLDLPNKRVVFLAINDNSNQAAGGTHWSLLVYLQDKNSFFHYDSHSRSNSVHAKQVAEKLEAFLGRKGDKLAFVEEKAPAQQNSYDCGMYVICNTEALCQNFFRQQTESLLQLLTPAYITKKRGEWKDLITTLAKK |
| 3363 | sp|A0MZ66|SHOT1\_HUMAN | MNSSDEEKQLQLITSLKEQAIGEYEDLRAENQKTKEKCDKIRQERDEAVKKLEEFQKISHMVIEEVNFMQNHLEIEKTCRESAEALATKLNKENKTLKRISMLYMAKLGPDVITEEINIDDEDSTTDTDGAAETCVSVQCQKQIKELRDQIVSVQEEKKILAIELENLKSKLVEVIEEVNKVKQEKTVLNSEVLEQRKVLEKCNRVSMLAVEEYEEMQVNLELEKDLRKKAESFAQEMFIEQNKLKRQSHLLLQSSIPDQQLLKALDENAKLTQQLEEERIQHQQKVKELEEQLENETLHKEIHNLKQQLELLEEDKKELELKYQNSEEKARNLKHSVDELQKRVNQSENSVPPPPPPPPPLPPPPPNPIRSLMSMIRKRSHPSGSGAKKEKATQPETTEEVTDLKRQAVEEMMDRIKKGVHLRPVNQTARPKTKPESSKGCESAVDELKGILGTLNKSTSSRSLKSLDPENSETELERILRRRKVTAEADSSSPTGILATSESKSMPVLGSVSSVTKTALNKKTLEAEFNSPSPPTPEPGEGPRKLEGCTSSKVTFQPPSSIGCRKKYIDGEKQAEPVVVLDPVSTHEPQTKDQVAEKDPTQHKEDEGEIQPENKEDSIENVRETDSSNC |
| 3364 | sp|Q8WTV0|SCRB1\_HUMAN | MGCSAKARWAAGALGVAGLLCAVLGAVMIVMVPSLIKQQVLKNVRIDPSSLSFNMWKEIPIPFYLSVYFFDVMNPSEILKGEKPQVRERGPYVYREFRHKSNITFNNNDTVSFLEYRTFQFQPSKSHGSESDYIVMPNILVLGAAVMMENKPMTLKLIMTLAFTTLGERAFMNRTVGEIMWGYKDPLVNLINKYFPGMFPFKDKFGLFAELNNSDSGLFTVFTGVQNISRIHLVDKWNGLSKVDFWHSDQCNMINGTSGQMWPPFMTPESSLEFYSPEACRSMKLMYKESGVFEGIPTYRFVAPKTLFANGSIYPPNEGFCPCLESGIQNVSTCRFSAPLFLSHPHFLNADPVLAEAVTGLHPNQEAHSLFLDIHPVTGIPMNCSVKLQLSLYMKSVAGIGQTGKIEPVVLPLLWFAESGAMEGETLHTFYTQLVLMPKVMHYAQYVLLALGCVLLLVPVICQIRSQVGAGQRAARADSHSLACWGKGASDRTLWPTAAWSPPPAAVLRLCRSGSGHCWGLRSTLASFACRVATTLPVLEGLGPSLGGGTGS |
| 3365 | sp|Q9M099|SCP24\_ARATH | MARTHFIFLLLVALLSTTFPSSSSSREQEKDRIKALPGQPKVAFSQYSGYVNVNQSHGRALFYWLTESSSPSPHTKPLLLWLNGGPGCSSIAYGASEEIGPFRINKTGSNLYLNKFAWNKDANLLFLESPAGVGYSYTNTSSDLKDSGDERTAQDNLIFLIKWLSRFPQYKYRDFYIAGESYAGHYVPQLAKKINDYNKAFSKPIINLKGFLVGNAVTDNQYDSIGTVTYWWTHAIISDKSYKSILKYCNFTVERVSDDCDNAVNYAMNHEFGDIDQYSIYTPTCVAAQQKKNTTGFFVRMKNTLLRRRLVSGYDPCTESYAEKYFNRPDVQRAMHANVTGIRYKWTACSDVLIKTWKDSDKTMLPIYKELAASGLRIWIFSGDTDSVVPVTATRFSLSHLNLPVKTRWYPWYTDNQVGGWTEVYKGLTFATVRGAGHEVPLFEPKRALILFRSFLAGKELPRSY |
| 3366 | sp|Q39086|SD17\_ARATH | MRSVPNYHHSFFIFLILILFLAFSVSPNTLSATESLTISSNKTIISPSQIFELGFFNPASSSRWYLGIWYKIIPIRTYVWVANRDNPLSSSNGTLKISGNNLVIFDQSDRPVWSTNITGGDVRSPVAAELLDNGNFLLRDSNNRLLWQSFDFPTDTLLAEMKLGWDQKTGFNRILRSWKTTDDPSSGEFSTKLETSEFPEFYICSKESILYRSGPWNGMRFSSVPGTIQVDYMVYNFTASKEEVTYSYRINKTNLYSRLYLNSAGLLQRLTWFETTQSWKQLWYSPKDLCDNYKVCGNFGYCDSNSLPNCYCIKGFKPVNEQAWDLRDGSAGCMRKTRLSCDGRDGFTRLKRMKLPDTTATIVDREIGLKVCKERCLEDCNCTAFANADIRNGGSGCVIWTREILDMRNYAKGGQDLYVRLAAAELEDKRIKNEKIIGSSIGVSILLLLSFVIFHFWKRKQKRSITIQTPNVDQVRSQDSLINDVVVSRRGYTSKEKKSEYLELPLLELEALATATNNFSNDNKLGQGGFGIVYKGRLLDGKEIAVKRLSKMSSQGTDEFMNEVRLIAKLQHINLVRLLGCCVDKGEKMLIYEYLENLSLDSHLFDQTRSSNLNWQKRFDIINGIARGLLYLHQDSRCRIIHRDLKASNVLLDKNMTPKISDFGMARIFGREETEANTRRVVGTYGYMSPEYAMDGIFSMKSDVFSFGVLLLEIISGKRNKGFYNSNRDLNLLGFVWRHWKEGNELEIVDPINIDSLSSKFPTHEILRCIQIGLLCVQERAEDRPVMSSVMVMLGSETTAIPQPKRPGFCIGRSPLEADSSSSTQRDDECTVNQITLSVIDAR |
| 3367 | sp|Q16585|SGCB\_HUMAN | MAAAAAAAAEQQSSNGPVKKSMREKAVERRSVNKEHNSNFKAGYIPIDEDRLHKTGLRGRKGNLAICVIILLFILAVINLIITLVIWAVIRIGPNGCDSMEFHESGLLRFKQVSDMGVIHPLYKSTVGGRRNENLVITGNNQPIVFQQGTTKLSVENNKTSITSDIGMQFFDPRTQNILFSTDYETHEFHLPSGVKSLNVQKASTERITSNATSDLNIKVDGRAIVRGNEGVFIMGKTIEFHMGGNMELKAENSIILNGSVMVSTTRLPSSSSGDQLGSGDWVRYKLCMCADGTLFKVQVTSQNMGCQISDNPCGNTH |
| 3368 | sp|Q8K2Q9|SHOT1\_MOUSE | MNSSDEEKQLQLITSLKEQAIGEYEDLRAENQKTKEKCDKIRQERDEAVKKLEEFQKISHMVIEEVNFMQNHLEIEKTCRESAEALATKLNKENKTLKRISMLYMAKLGPDVITEEINIDDDDPATDTDAAAETCVSVQCQKQIKELRDQIVSVQEEKKVLAIELENLKSKLGEVMEEVNKVKQEKAVLNSEVLEQRKVLEKCNRVSMLAVEEYEELQVNLELEKDLRKKAESFAQEMFIEQNKLKRQSHLLLQSSLPDQQLLKALDENAKLIQQLEEERIQHQKKVKELEERLENEALHKEIHNLRQQLELLEDDKRELEQKYQSSEEKARNLKHSVDELQKRVNQSENSVPPPPPPPPPLPPPPPNPIRSLMSMIRKRSHPSGNSAKKEKTTQPETAEEVTDLKRQAVEEMMDRIKKGVHLRPVNQTARPKAKPDSLKGSESAVDELKGILGTLNKSTSSRSLKSLGPENSETELERILRRRKLTAEADSSSPTGILATSESKSMPVLGSVSSVTKSALNKKTLEAEFNNPCPLTPEPGEGPRKLEGCTNPKVTFQPPSKGGYRRKCVGSENQAEPVVVLDPVSTHEPQTKDQAAEKDPTQFEEEGGETQPEYKEDSGGKTGETDSSNC |
| 3369 | sp|Q9BV35|SCMC3\_HUMAN | MRGSPGDAERRQRWGRLFEELDSNKDGRVDVHELRQGLARLGGGNPDPGAQQGISSEGDADPDGGLDLEEFSRYLQEREQRLLLMFHSLDRNQDGHIDVSEIQQSFRALGISISLEQAEKILHSMDRDGTMTIDWQEWRDHFLLHSLENVEDVLYFWKHSTVLDIGECLTVPDEFSKQEKLTGMWWKQLVAGAVAGAVSRTGTAPLDRLKVFMQVHASKTNRLNILGGLRSMVLEGGIRSLWRGNGINVLKIAPESAIKFMAYEQIKRAILGQQETLHVQERFVAGSLAGATAQTIIYPMEVLKTRLTLRRTGQYKGLLDCARRILEREGPRAFYRGYLPNVLGIIPYAGIDLAVYETLKNWWLQQYSHDSADPGILVLLACGTISSTCGQIASYPLALVRTRMQAQASIEGGPQLSMLGLLRHILSQEGMRGLYRGIAPNFMKVIPAVSISYVVYENMKQALGVTSR |
| 3370 | sp|P15303|SEC23\_YEAST | MDFETNEDINGVRFTWNVFPSTRSDANSNVVPVGCLYTPLKEYDELNVAPYNPVVCSGPHCKSILNPYCVIDPRNSSWSCPICNSRNHLPPQYTNLSQENMPLELQSTTIEYITNKPVTVPPIFFFVVDLTSETENLDSLKESIITSLSLLPPNALIGLITYGNVVQLHDLSSETIDRCNVFRGDREYQLEALTEMLTGQKPTGPGGAASHLPNAMNKVTPFSLNRFFLPLEQVEFKLNQLLENLSPDQWSVPAGHRPLRATGSALNIASLLLQGCYKNIPARIILFASGPGTVAPGLIVNSELKDPLRSHHDIDSDHAQHYKKACKFYNQIAQRVAANGHTVDIFAGCYDQIGMSEMKQLTDSTGGVLLLTDAFSTAIFKQSYLRLFAKDEEGYLKMAFNGNMAVKTSKDLKVQGLIGHASAVKKTDANNISESEIGIGATSTWKMASLSPYHSYAIFFEIANTAANSNPMMSAPGSADRPHLAYTQFITTYQHSSGTNRIRVTTVANQLLPFGTPAIAASFDQEAAAVLMARIAVHKAETDDGADVIRWLDRTLIKLCQKYADYNKDDPQSFRLAPNFSLYPQFTYYLRRSQFLSVFNNSPDETAFYRHIFTREDTTNSLIMIQPTLTSFSMEDDPQPVLLDSISVKPNTILLLDTFFFILIYHGEQIAQWRKAGYQDDPQYADFKALLEEPKLEAAELLVDRFPLPRFIDTEAGGSQARFLLSKLNPSDNYQDMARGGSTIVLTDDVSLQNFMTHLQQVAVSGQA |
| 3371 | sp|Q9WU39|SCNNG\_MOUSE | MAPGEKIKAKIKKNLPVRGPQAPTIKDLMHWYCLNTNTHGCRRIVVSRGRLRRLLWIAFTLTAVALIIWQCALLVFSFYTVSVSIKVHFQKLDFPAVTICNINPYKYSAVSDLLTDLDSETKQALLSLYGVKDVLDSTPRKRREAGSMRSTWEGTPPRFLNLIPLLVFNENEKGKARDFFTGRKRKISGKIIHKASNVMHVHESKKLVGFQLCSNDTSDCATYTFSSGINAIQEWYKLHYMNIMAQVPLEKKINMSYSAEELLVTCFFDGMSCDARNFTLFHHPMYGNCYTFNNRENATILSTSMGGSEYGLQVILYINEDEYNPFLVSSTGAKVLVHQQNEYPFIEDVGTEIETAMSTSIGMHLTESFKLSEPYSQCTEDGSDVPVTNIYNAAYSLQICLYSCFQTKMVEKCGCAQYSQPLPPAANYCNYQQHPNWMYCYYQLYQAFVREELGCQSVCKQSCSFKEWTLTTSLAQWPSEASEKWLLNVLTWDQSQQINKKLNKTDLAKLLIFYKDLNQRSIMESPANSIEMLLSNFGGQLGLWMSCSVVCVIEIIEVFFIDFFSIIARRQWQKAKDWWARRRTPPSTETPSSQQGQDNPALDTDDDLPTFTSAMRLPPAPEAPVPGTPPPRYNTLRLDSAFSSQLTDTQLTNEF |
| 3372 | sp|P22194|SDS22\_SCHPO | MSNVSSEDGIAPETQLIIDDPDVQQIDADEDLLDDVPDDVDCVELIQSRIQSMASLGLERFKNLQSLCLRQNQIKKIESVPETLTELDLYDNLIVRIENLDNVKNLTYLDLSFNNIKTIRNINHLKGLENLFFVQNRIRRIENLEGLDRLTNLELGGNKIRVIENLDTLVNLEKLWVGKNKITKFENFEKLQKLSLLSIQSNRITQFENLACLSHCLRELYVSHNGLTSFSGIEVLENLEILDVSNNMIKHLSYLAGLKNLVELWASNNELSSFQEIEDELSGLKKLETVYFEGNPLQKTNPAVYRNKVRLCLPQLRQIDATIIPKTSKQFP |
| 3373 | sp|B3M301|SPAST\_DROAN | MVRTKNQSSSSSASSSTKSPIKSGSAGSGSAAGGNSASGSRQSTHRSSSASNVASAAAAAVASSNRTRTSPGSSPDGDDDTTTTDDLTPTSCSPRSGHHHHGHPYGGSSVHKQNLYVVSFPIIFLFNVLRSLIYQLFCIFRYLYGASTKVIYRPHRRDCNIEIVVQNSKDQQQQHQSQPLSYPLELSEGGNPEQQLPSQTQRYRAIQPLEMASNRPGGGYSPGPGDPLLAKQKHHHRRAFEYISKALKIDEENEGHKELAIELYRKGIKELEDGIAVDCWSGRGDVWDRAQRLHDKMQTNLSMARDRLHFLALREEDLRMQRLSLKEKQQKTLPQSDYKALKSREPMLAGMTNDPLKPRVRSSGYGPKASTSAQAAAATAASGRKLTIGTKRPGNLAVANKSQTLPRNLGSKTSVGAVQRQPAKTAATPPAVRRQFSSGRNTPPLRSRTPINNNGPSTSGSGASTPVVSVKGVEPKLVQLILDEIVEGGAKVEWSDIAGQEVAKQALQEMVILPSVRPELFTGLRAPAKGLLLFGPPGNGKTLLARAVATECSATFLNISAASLTSKYVGDGEKLVRALFAVARHMQPSIIFIDEVDSLLSERSSNEHEASRRLKTEFLVEFDGLPGNPDGDRIVVLAATNRPQELDEAALRRFTKRVYVSLPDEQTRELLLSRLLQKQGSPLDTEALRRLAKTTDGYSGSDLTALAKDAALEPIRELNVEQVKCLDISAMRAITESDFHSSLKRIRRSVAPQSLNSYEKWSQDYGDITI |
| 3374 | sp|Q96I25|SPF45\_HUMAN | MSLYDDLGVETSDSKTEGWSKNFKLLQSQLQVKKAALTQAKSQRTKQSTVLAPVIDLKRGGSSDDRQIVDTPPHVAAGLKDPVPSGFSAGEVLIPLADEYDPMFPNDYEKVVKRQREERQRQRELERQKEIEEREKRRKDRHEASGFARRPDPDSDEDEDYERERRKRSMGGAAIAPPTSLVEKDKELPRDFPYEEDSRPRSQSSKAAIPPPVYEEQDRPRSPTGPSNSFLANMGGTVAHKIMQKYGFREGQGLGKHEQGLSTALSVEKTSKRGGKIIVGDATEKDASKKSDSNPLTEILKCPTKVVLLRNMVGAGEVDEDLEVETKEECEKYGKVGKCVIFEIPGAPDDEAVRIFLEFERVESAIKAVVDLNGRYFGGRVVKACFYNLDKFRVLDLAEQV |
| 3375 | sp|P04179|SODM\_HUMAN | MLSRAVCGTSRQLAPVLGYLGSRQKHSLPDLPYDYGALEPHINAQIMQLHHSKHHAAYVNNLNVTEEKYQEALAKGDVTAQIALQPALKFNGGGHINHSIFWTNLSPNGGGEPKGELLEAIKRDFGSFDKFKEKLTAASVGVQGSGWGWLGFNKERGHLQIAACPNQDPLQGTTGLIPLLGIDVWEHAYYLQYKNVRPDYLKAIWNVINWENVTERYMACKK |
| 3376 | sp|P11223|SPIKE\_IBVB | MLVTPLLLVTLLCALCSAVLYDSSSYVYYYQSAFRPPSGWHLQGGAYAVVNISSEFNNAGSSSGCTVGIIHGGRVVNASSIAMTAPSSGMAWSSSQFCTAHCNFSDTTVFVTHCYKHGGCPLTGMLQQNLIRVSAMKNGQLFYNLTVSVAKYPTFRSFQCVNNLTSVYLNGDLVYTSNETIDVTSAGVYFKAGGPITYKVMREVKALAYFVNGTAQDVILCDGSPRGLLACQYNTGNFSDGFYPFTNSSLVKQKFIVYRENSVNTTCTLHNFIFHNETGANPNPSGVQNIQTYQTKTAQSGYYNFNFSFLSSFVYKESNFMYGSYHPSCKFRLETINNGLWFNSLSVSIAYGPLQGGCKQSVFKGRATCCYAYSYGGPSLCKGVYSGELDHNFECGLLVYVTKSGGSRIQTATEPPVITQNNYNNITLNTCVDYNIYGRTGQGFITNVTDSAVSYNYLADAGLAILDTSGSIDIFVVQGEYGLNYYKVNPCEDVNQQFVVSGGKLVGILTSRNETGSQLLENQFYIKITNGTRRFRRSITENVANCPYVSYGKFCIKPDGSIATIVPKQLEQFVAPLFNVTENVLIPNSFNLTVTDEYIQTRMDKVQINCLQYVCGSSLDCRKLFQQYGPVCDNILSVVNSVGQKEDMELLNFYSSTKPAGFNTPVLSNVSTGEFNISLLLTNPSSRRKRSLIEDLLFTSVESVGLPTNDAYKNCTAGPLGFFKDLACAREYNGLLVLPPIITAEMQALYTSSLVASMAFGGITAAGAIPFATQLQARINHLGITQSLLLKNQEKIAASFNKAIGHMQEGFRSTSLALQQIQDVVSKQSAILTETMASLNKNFGAISSVIQEIYQQFDAIQANAQVDRLITGRLSSLSVLASAKQAEYIRVSQQRELATQKINECVKSQSIRYSFCGNGRHVLTIPQNAPNGIVFIHFSYTPDSFVNVTAIVGFCVKPANASQYAIVPANGRGIFIQVNGSYYITARDMYMPRAITAGDVVTLTSCQANYVSVNKTVITTFVDNDDFDFNDELSKWWNDTKHELPDFDKFNYTVPILDIDSEIDRIQGVIQGLNDSLIDLEKLSILKTYIKWPWYVWLAIAFATIIFILILGWVFFMTGCCGCCCGCFGIMPLMSKCGKKSSYYTTFDNDVVTEQYRPKKSV |
| 3377 | sp|A0JNI4|SRR\_BOVIN | MCDQYCISFADVEKAHINIRDFIHLTPVLTSSILNQITGRNLFFKCELFQKTGSFKIRGALNAIRGLISAHPEEKPRAVVAHSSGNHGQALSFAARLEGIPAYVIVPETAPNCKKLAIQAYGASIVYSEQSEESRENITKRIAEETEGIMVHPNQEPAVIAGQGTIAMEVLNQVPLVDALVVPVGGGGMLAGIAVTVKALRPSVKVYAAEPLNADDCYQSKLKGELTPNPYPPETIADGIKSSIGLNTWPIIRDLVDDVFTVTEDEIKYATQLVWERMKLLIEPTAGVGVAVVLSQHFRTVPAEVKNICIVLSGGNVDLTSLTWVKKQDEKAAP |
| 3378 | sp|P49903|SPS1\_HUMAN | MSTRESFNPESYELDKSFRLTRFTELKGTGCKVPQDVLQKLLESLQENHFQEDEQFLGAVMPRLGIGMDTCVIPLRHGGLSLVQTTDYIYPIVDDPYMMGRIACANVLSDLYAMGVTECDNMLMLLGVSNKMTDRERDKVMPLIIQGFKDAAEEAGTSVTGGQTVLNPWIVLGGVATTVCQPNEFIMPDNAVPGDVLVLTKPLGTQVAVAVHQWLDIPEKWNKIKLVVTQEDVELAYQEAMMNMARLNRTAAGLMHTFNAHAATDITGFGILGHAQNLAKQQRNEVSFVIHNLPVLAKMAAVSKACGNMFGLMHGTCPETSGGLLICLPREQAARFCAEIKSPKYGEGHQAWIIGIVEKGNRTARIIDKPRIIEVAPQVATQNVNPTPGATS |
| 3379 | sp|P55000|SLUR1\_HUMAN | MASRWAVQLLLVAAWSMGCGEALKCYTCKEPMTSASCRTITRCKPEDTACMTTLVTVEAEYPFNQSPVVTRSCSSSCVATDPDSIGAAHLIFCCFRDLCNSEL |
| 3380 | sp|Q6UX34|SNORC\_HUMAN | MASCLALRMALLLVSGVLAPAVLTDDVPQEPVPTLWNEPAELPSGEGPVESTSPGREPVDTGPPAPTVAPGPEDSTAQERLDQGGGSLGPGAIAAIVIAALLATCVVLALVVVALRKFSAS |
| 3381 | sp|P25357|SNT1\_YEAST | MGYPPPTRRLGDKKRYHYSNNPNRRHPSAVYSKNSFPKSSNNGFVSSPTADNSTNPSVTPSTASVPLPTAAPGSTFGIEAPRPSRYDPSSVSRPSSSSYSSTRKIGSRYNPDVERSSSTTSSTPESMNTSTITHTNTDIGNSRYSRKTMSRYNPQSTSSTNVTHFPSALSNAPPFYVANGSSRRPRSMDDYSPDVTNKLETNNVSSVNNNSPHSYYSRSNKWRSIGTPSRPPFDNHVGNMTTTSNTNSIHQREPFWKANSTTILKSTHSQSSPSLHTKKFHDANKLDKPEASVKVETPSKDETKAISYHDNNFPPRKSVSKPNAPLEPDNIKVGEEDALGKKEVHKSGREIAKEHPTPVKMKEHDELEARAKKVSKINIDGKQDEIWTTAKTVASAVEVSKESQKELTRSVERKESPEIRDYERAYDPKALKTDVTKLTVDNDNKSYEEPLEKVEGCIFPLPKAETRLWELKNQKRNKIISEQKYLLKKAIRNFSEYPFYAQNKLIHQQATGLILTKIISKIKKEEHLKKINLKHDYFDLQKKYEKECEILTKLSENLRKEEIENKRKEHELMEQKRREEGIETEKEKSLRHPSSSSSSRRRNRADFVDDAEMENVLLQIDPNYKHYQAAATIPPLILDPIRKHSYKFCDVNNLVTDKKLWASRILKDASDNFTDHEHSLFLEGYLIHPKKFGKISHYMGGLRSPEECVLHYYRTKKTVNYKQLLIDKNKKRKMSAAAKRRKRKERSNDEEVEVDESKEESTNTIEKEEKSENNAEENVQPVLVQGSEVKGDPLGTPEKVENMIEQRGEEFAGELENAERVNDLKRAHDEVGEESNKSSVIETNNGVQIMDPKGAVQNGYYPEETKELDFSLENALQRKKHKSAPEHKTSYWSVRESQLFPELLKEFGSQWSLISEKLGTKSTTMVRNYYQRNAARNGWKLLVDETDLKRDGTSSESVQQSQILIQPERPNINAYSNIPPQQRPALGYFVGQPTHGHNTSISSIDGSIRPFGPDFHRDTFSKISAPLTTLPPPRLPSIQFPRSEMAEPTVTDLRNRPLDHIDTLADAASSVTNNQNFSNERNAIDIGRKSTTISNLLNNSDRSMKSSFQSASRHEAQLEDTPSMNNIVVQEIKPNITTPRSSSISALLNPVNGNGQSNPDGRPLLPFQHAISQGTPTFPLPAPRTSPISRAPPKFNFSNDPLAALAAVASAPDAMSSFLSKKENNN |
| 3382 | sp|O14350|SWI3\_SCHPO | MSTAASDSGVEKLVEENKREEVKKNEEEKEFDLGLEENPDSVKKPRKRLAKFDEERLISENGIPKLRKMMRKVKLKGKGHEAKDLKQLLGMYHIWTHELYPRATFDDSISYLKTLGKHRSVKVRRRGWINEIAVENGSDSNASLFTGPSSNSLVNLTSGDPYVQDTADDAFVAQDNDTQLE |
| 3383 | sp|Q18PI6|SLAF5\_MOUSE | MAQRHLWIWFLCLQTWSEAAGKDADPMVMNGILGESVTFLLNIQEPKKIDNIAWTSQSSVAFIKPGVNKAEVTITQGTYKGRIEIIDQKYDLVIRDLRMEDAGTYKADINEENEETITKIYYLHIYRRLKTPKITQSLISSLNNTCNITLTCSVEKEEKDVTYSWSPFGEKSNVLQIVHSPMDQKLTYTCTAQNPVSNSSDSVTVQQPCTDTPSFHPRHAVLPGGLAVLFLLILIPMLAFLFRLYKRRRDRIVLEADDVSKKTVYAVVSRNAQPTESRIYDEIPQSKMLSCKEDPVTTIYSSVQLSEKMKETNMKDRSLPKALGNEIVV |
| 3384 | sp|Q9UNK0|STX8\_HUMAN | MAPDPWFSTYDSTCQIAQEIAEKIQQRNQYERKGEKAPKLTVTIRALLQNLKEKIALLKDLLLRAVSTHQITQLEGDRRQNLLDDLVTRERLLLASFKNEGAEPDLIRSSLMSEEAKRGAPNPWLFEEPEETRGLGFDEIRQQQQKIIQEQDAGLDALSSIISRQKQMGQEIGNELDEQNEIIDDLANLVENTDEKLRNETRRVNMVDRKSASCGMIMVILLLLVAIVVVAVWPTN |
| 3385 | sp|Q8K4T3|STRAB\_MOUSE | MSLLDCFCASRTRVESLRPEKQSETSIHQYLVDESAISRPPPSARASEVICSTDVSHYELQVEIGRGFDNLTSVHLARHTPTGTLVTVKITNLESCTEERLKALQRAVILSHFFQHPNITTYWTVFTVGSWLWVISPFMAYGSASQLLRTYFPDGMSETLIRNILFGAVQGLNYLHQNGCIHRSFKASHILISGDGLVTLSGLSHLHSLLKHGQRHRAVFDFPQFSTSVQPWLSPELLRQDLHGYNVKSDIYSVGITACELASGQVPFQDMHRTQMLLQKLKGPPYSPLDVSIFPQSDSRMRNSQSGVDSGIGESVLVSTGTHTVNSDRLHTPSTKTFSPAFFSLVQLCLQQDPEKRPSASSLLSHVFFKQMKEESQDSILPLLPPAYNRPSASLQPVSPWSELEFQFPDDKDPVWEF |
| 3386 | sp|Q8BWB6|STEA2\_MOUSE | MESISMMGSPKSLETFLPNGINGIKDARQVTVGVIGSGDFAKSLTIRLIRCGYHVVIGSRNPKFASEFFPHVVDVTHHEDALTKTNIIFVAIHREHYTSLWDLRHLLVGKILIDVSNNMRVNQYPESNAEYLASLFPDSLIVKGFNVISAWALQLGPKDASRQVYICSNNIQARQQVIELARQLNFIPVDLGSLSSAKEIENLPLRLFTLWRGPVVVAISLATFFFLYSFVRDVIHPYARNQQSDFYKIPIEIVNKTLPIVAITLLSLVYLAGLLAAAYQLYYGTKYRRFPPWLDTWLQCRKQLGLLSFFFAVVHVAYSLCLPMRRSERYLFLNMAYQQVHANIENAWNEEEVWRIEMYISFGIMSLGLLSLLAVTSIPSVSNALNWREFSFIQSTLGYVALLITTFHVLIYGWKRAFAEEYYRFYTPPNFVLALVLPSIVILGKMILLLPCISRKLKRIKKGWEKSQFLDEGMGGAVPHLSPERVTVM |
| 3387 | sp|Q9TUM3|STA5B\_BOVIN | MAVWIQAQQLQGDALHQMQALYGQHFPIEVRHYLSQWIEGQAWDSIDLDNPQENIKATQLLEGLVQELQKKAEHQVGEDGFLLKIKLGHYATQLQNTYDRCPMELVRCIRHILYNEQRLVREANNGTSPAGSLADAMSQKHLQINQTFEELRLVTQDTENELKKLQQTQEYFIIQYQESLRIQAQFAQLAQLNPQERLSRETALQQKQLSLEAWLQREAQTLQQYRVELAEKHQKTLQLLRKQQTIILDDELIQWKRRQQLAGNGGPPEGSLDVLQSWCEKLAEIIWQNRQQIRRAEHFCQQLPIPGPVEEMLAEVNATITDIISALVTSTFIIEKQPPQVLKTQTKFAATVRLLVGGKLNVHMNPPQVKATIISEQQAKSLLKNENTRNDYSGEILNNCCVMEYHQATGTLSAHFRNMSLKRIKRSDRRGAESVTEEKFTILFESQFSVGGNELVFQVKTLSLPVVVIVHGSQDNNATATVLWDNAFAEPGRVPFAVPDKVLWPQLCEALNMKFKAEVQSNRGLTKENLVFLAQKLFNSSSSHLEDYNGMSVSWSQFNRENLPGRNYTFWQWFDGVMEVLKKHLKPHWNDGAILGFVNKQQAHDLLINKPDGTFLLRFSDSEIGGITIAWKFDSQERMFWNLMPFTTRDFSIRSLADRLGDLSYLIYVFPDRPKDEVYSKYYTPVPCEPATAKAVDGYVKPQIKQVVPEFVSASADSAGGSATYMDQAPSPAVCPQPHYNMYPQNPDPVLDNDGDFDLDDTIDVARRVEELLGRPMDSQWIPHAQS |
| 3388 | sp|Q9Z2Q7|STX8\_RAT | MAPDPWFSTYDSTCQIAQEIAEKIQERNQCERRGEKTPKLTLTIRTLLKNLKVKIDLLKDLLLRAVSTRQITQLEGDRRQNLLDDLVTRERLLLASFKNEGSEPDLIRSSLMSEEAKRGTPNPWLCEEPEETRGLGFDEIRQQQQKIIQEQDAGLDALSSIISRQKQMGQEIGNELDEQNEIIDDLANLVENTDEKLRTEARRVTLVDRKSASCGMIMVILLLLVAIVVVAVWPTN |
| 3389 | sp|Q9D666|SUN1\_MOUSE | MDFSRLHTYTPPQCVPENTGYTYALSSSYSSDALDFETEHKLEPVFDSPRMSRRSLRLVTTASYSSGDSQAIDSHISTSRATPAKGRETRTVKQRRSASKPAFSINHLSGKGLSSSTSHDSSCSLRSATVLRHPVLDESLIREQTKVDHFWGLDDDGDLKGGNKAATQGNGELAAEVASSNGYTCRDCRMLSARTDALTAHSAIHGTTSRVYSRDRTLKPRGVSFYLDRTLWLAKSTSSSFASFIVQLFQVVLMKLNFETYKLKGYESRAYESQSYETKSHESEAHLGHCGRMTAGELSRVDGESLCDDCKGKKHLEIHTATHSQLPQPHRVAGAMGRLCIYTGDLLVQALRRTRAAGWSVAEAVWSVLWLAVSAPGKAASGTFWWLGSGWYQFVTLISWLNVFLLTRCLRNICKVFVLLLPLLLLLGAGVSLWGQGNFFSLLPVLNWTAMQPTQRVDDSKGMHRPGPLPPSPPPKVDHKASQWPQESDMGQKVASLSAQCHNHDERLAELTVLLQKLQIRVDQVDDGREGLSLWVKNVVGQHLQEMGTIEPPDAKTDFMTFHHDHEVRLSNLEDVLRKLTEKSEAIQKELEETKLKAGSRDEEQPLLDRVQHLELELNLLKSQLSDWQHLKTSCEQAGARIQETVQLMFSEDQQGGSLEWLLEKLSSRFVSKDELQVLLHDLELKLLQNITHHITVTGQAPTSEAIVSAVNQAGISGITEAQAHIIVNNALKLYSQDKTGMVDFALESGGGSILSTRCSETYETKTALLSLFGVPLWYFSQSPRVVIQPDIYPGNCWAFKGSQGYLVVRLSMKIYPTTFTMEHIPKTLSPTGNISSAPKDFAVYGLETEYQEEGQPLGRFTYDQEGDSLQMFHTLERPDQAFQIVELRVLSNWGHPEYTCLYRFRVHGEPIQ |
| 3390 | sp|Q08851|STX5\_RAT | MIPRKRYGSKNTDQGVYLGLSKTQVLSPATAINSSSDIAPLPTPVALVPSPPDTMSCRDRTQEFLSACKSLQSRQNGIQTNKPALHATRQCSEFTLMARRIGKDLSNTFAKLEKLTILAKRKSLFDDKAVEIEELTYIIKQDINSLNKQIAQLQDFVRAKGSQSGRHLQTHSNTIVVSLQSKLASMSNDFKSVLEVRTENLKQQRNRREQFSRAPVSALPLAPNNLGGGPIVLGGESRASRDVAIDMMDPRTSQQLQLIDEQDSYIQSRADTMQNIESTIVELGSIFQQLAHMVKEQEETIQRIDENVLGAQLDVEAAHSEILKYFQSVTSNRWLMVKIFLILIVFFIIFVVFLA |
| 3391 | sp|Q5JPH6|SYEM\_HUMAN | MAALLRRLLQRERPSAASGRPVGRREANLGTDAGVAVRVRFAPSPTGFLHLGGLRTALYNYIFAKKYQGSFILRLEDTDQTRVVPGAAENIEDMLEWAGIPPDESPRRGGPAGPYQQSQRLELYAQATEALLKTGAAYPCFCSPQRLELLKKEALRNHQTPRYDNRCRNMSQEQVAQKLAKDPKPAIRFRLEQVVPAFQDLVYGWNRHEVASVEGDPVIMKSDGFPTYHLACVVDDHHMGISHVLRGSEWLVSTAKHLLLYQALGWQPPHFAHLPLLLNRDGSKLSKRQGDVFLEHFAADGFLPDSLLDIITNCGSGFAENQMGRTLPELITQFNLTQVTCHSALLDLEKLPEFNRLHLQRLVSNESQRRQLVGKLQVLVEEAFGCQLQNRDVLNPVYVERILLLRQGHICRLQDLVSPVYSYLWTRPAVGRAQLDAISEKVDVIAKRVLGLLERSSMSLTQDMLNGELKKLSEGLEGTKYSNVMKLLRMALSGQQQGPPVAEMMLALGPKEVRERIQKVVSS |
| 3392 | sp|Q3TBT3|STING\_MOUSE | MPYSNLHPAIPRPRGHRSKYVALIFLVASLMILWVAKDPPNHTLKYLALHLASHELGLLLKNLCCLAEELCHVQSRYQGSYWKAVRACLGCPIHCMAMILLSSYFYFLQNTADIYLSWMFGLLVLYKSLSMLLGLQSLTPAEVSAVCEEKKLNVAHGLAWSYYIGYLRLILPGLQARIRMFNQLHNNMLSGAGSRRLYILFPLDCGVPDNLSVVDPNIRFRDMLPQQNIDRAGIKNRVYSNSVYEILENGQPAGVCILEYATPLQTLFAMSQDAKAGFSREDRLEQAKLFCRTLEEILEDVPESRNNCRLIVYQEPTDGNSFSLSQEVLRHIRQEEKEEVTMNAPMTSVAPPPSVLSQEPRLLISGMDQPLPLRTDLI |
| 3393 | sp|Q9FBI2|STXA\_SHIDY | MKIIIFRVLTFFFVIFSVNVVAKEFTLDFSTAKTYVDSLNVIRSAIGTPLQTISSGGTSLLMIDSGTGDNLFAVDVRGIDPEEGRFNNLRLIVERNNLYVTGFVNRTNNVFYRFADFSHVTFPGTTAVTLSGDSSYTTLQRVAGISRTGMQINRHSLTTSYLDLMSHSGTSLTQSVARAMLRFVTVTAEALRFRQIQRGFRTTLDDLSGRSYVMTAEDVDLTLNWGRLSSVLPDYHGQDSVRVGRISFGSINAILGSVALILNCHHHASRVARMASDEFPSMCPADGRVRGITHNKILWDSSTLGAILMRRTISS |
| 3394 | sp|P53590|SUCB2\_PIG | IPAAPVAAQARKLLRDLAFRPPLLAARSQVVQLTPRRWLNLQEYQSKKLMSDNGVKVQRFFVADTANEALEAAKRLNAKEIVLKAQILAGGRGKGVFSSGLKGGVHLTKDPEVVGQLAKQMIGYNLATKQTPKEGVKVNKVMVAEALDISRETYLAILMDRSCNGPVLVGSPQGGVDIEEVAASNPELIFKEQIDIIEGIKDSQAQRMAENLGFLGPLQNQAADQIKKLYNLFLKIDATQVEVNPFGETPEGQVVCFDAKINFDDNAEFRQKDIFAMDDKSENEPIENEAAKYDLKYIGLDGNIACFVNGAGLAMATCDIIFLNGGKPANFLDLGGGVKESQVYQAFKLLTADPKVEAILVNIFGGIVNCAIIANGITKACRELELKVPLVVRLEGTNVHEAQNILTNSGLPITSAVDLEDAAKKAVASVTKK |
| 3395 | sp|Q9P2R7|SUCB1\_HUMAN | MAASMFYGRLVAVATLRNHRPRTAQRAAAQVLGSSGLFNNHGLQVQQQQQRNLSLHEYMSMELLQEAGVSVPKGYVAKSPDEAYAIAKKLGSKDVVIKAQVLAGGRGKGTFESGLKGGVKIVFSPEEAKAVSSQMIGKKLFTKQTGEKGRICNQVLVCERKYPRREYYFAITMERSFQGPVLIGSSHGGVNIEDVAAESPEAIIKEPIDIEEGIKKEQALQLAQKMGFPPNIVESAAENMVKLYSLFLKYDATMIEINPMVEDSDGAVLCMDAKINFDSNSAYRQKKIFDLQDWTQEDERDKDAAKANLNYIGLDGNIGCLVNGAGLAMATMDIIKLHGGTPANFLDVGGGATVHQVTEAFKLITSDKKVLAILVNIFGGIMRCDVIAQGIVMAVKDLEIKIPVVVRLQGTRVDDAKALIADSGLKILACDDLDEAARMVVKLSEIVTLAKQAHVDVKFQLPI |
| 3396 | sp|P25397|TEHB\_ECOLI | MIIRDENYFTDKYELTRTHSEVLEAVKVVKPGKTLDLGCGNGRNSLYLAANGYDVDAWDKNAMSIANVERIKSIENLDNLHTRVVDLNNLTFDRQYDFILSTVVLMFLEAKTIPGLIANMQRCTKPGGYNLIVAAMDTADYPCTVGFPFAFKEGELRRYYEGWERVKYNEDVGELHRTDANGNRIKLRFATMLARKK |
| 3397 | sp|Q96M29|TEKT5\_HUMAN | MEFLGTTQTASYCGPKKCCGLTSLPAVQAPVIQECYQPYYLPGYRYLNSWRPSLFYKIANVQTCPDESTSTLRPPTILPTLRSALFSRYSPHDWDQSNQLQVRGAEASRLWASRLTDDSMRLLQDKDQLTHQMQEGTCRNLGQRLSDIGFWKSELSYELDRLLTENQNLETVKRRLECAANEVNCPLQVALECLYHREKRIGIDLVHDNVEKNLIREVDLLKCCQEQMRKLAQRIDIQMRDNRDAQHVLERDLEDKSSAQCIDEKCFNLRNTSDCISFFHGMEKIDGTISVPETWAKFSNDNIKHSQNMRANSIQLREEAEHLFETLSDQMWRQFTDTNLAFNARISEVTDVKNKLQTQLAKTLQEIFQAENTIMLLERSIMAKEGPLKVAQTRLECRTRRPNMELCRDIPQLKLVNEVFTIDDTLQTLKLRLRETQDTLQLLVMTKCRLEHELAIKANTLCIDKEKCMGMRKTFPCTPRLVGHT |
| 3398 | sp|Q7TSD4|TBATA\_MOUSE | MTTEVNQLSEHPLVSPKAEPQPETKPENLPRSHGDVGLQKETVVPGIVDFELIHEELKTTKPQTSQPTPSAYRFGRLSHHSFFSRHHPQPQRVTHIQVTGREDLEHSLPLTTSFQLLQAPGVQPMDLTPSADIAGKPVCVVRDEFSLSALTQPTFLSRCLMGMPTISVPIGDPQSNRNPQLSTSDTWRKKLKDLASRVTVFTKEIQPKPDEQKEEPPLREPPPREQGAKYSAETGRLIPASSQALTRRNRQGQRVHPSSKDGGVQASILQDQELLILELLCQILQTDSLRAIQFWLLYAPSKEKDLALGLLQTAVAQLIPQPLSSIPAEKLWNHLQELQEPQETQEAAYSPSLKKTRSPPLPKTDKPEYIGKAQVLLVHPSEDPEEKTTKAES |
| 3399 | sp|P40748|SYT3\_RAT | MSGDYEDDLCRRALILVSDLCARIRDADTNDRCQEFNELRIRGYPRGPDADISVSLLSVIVTFCGIVLLGVSLFVSWKLCWVPWRDKGGSAVGGGPLRKDLAPGVGLAGLVGGGGHHLGASLGGHPLLGGPHHHAHPAHHPPFAELLEPGGLGGSEPPEPSYLDMDSYPEAAVASVVAAGVKPSQTSPELPSEGGTGSGLLLLPPSGGGLPSAQSHQQVTSLAPTTRYPALPRPLTQQTLTTQADPSSEERPPALPLPLPGGEEKAKLIGQIKPELYQGTGPGGRRTGGGSGEAGAPCGRISFALRYLYGSDQLVVRILQALDLPAKDSNGFSDPYVKIYLLPDRKKKFQTKVHRKTLNPIFNETFQFSVPLAELAQRKLHFSVYDFDRFSRHDLIGQVVLDNLLELAEQPPDRPLWRDILEGGSEKADLGELNFSLCYLPTAGLLTVTIIKASNLKAMDLTGFSDPYVKASLISEGRRLKKRKTSIKKNTLNPTYNEALVFDVAPESVENVGLSIAVVDYDCIGHNEVIGVCRVGPEAADPHGREHWAEMLANPRKPVEHWHQLVEEKTLSSFTKGGKGLSEKENSE |
| 3400 | sp|O08523|TECTA\_MOUSE | MNYSSLLRIWVSFIFALVRHQAQPRELMYPFWQNDTRTPKVDDGSSSEIKLAIPVFFFGVPYRTVYVNNNGVVSFNVLVSQFTPESFPLTDGRAFIAPFWADVHNGIRGEIYYRETMDPAILRRATKDIRKYFKDMTTFSATWVFIVTWEEVTFYGGSSTTPVNTFQAVLVSDGSYTFTLFNYYEINWTTGTASGGDPLTGLGGVMAQAGFNGGNLTNFFSLPGSRTPEIVNIQETTNVNVPGRWAFKVDGKEIDPANGCTSRGQFLRRGEVFWDDLNCTIKCRCLDFNNEIYCQEASCSPYEVCEPKGRFFYCSPVETSTCVVFGEPHYHTFDGFLFHFQGSCAYLLARQCLQTSSLPFFSVEAKNEHRGGSAVSWVKELSVEVNGYKILIPKGSYGKVKVNDLVTSLPVTLELGAVKIYQSGMSTAVETDFGLLVTFDGQHYASISIPGSYINSTCGLCGNYNKNPLDDFLRPDGRPAMSVLDLGESWRVYHADWKCGSGCVDNCTQCDAATEALYFGSDYCGFLNKTDGPLWECGTVVDATAFVHSCVYDLCSVRDNGTLLCQAIQAYALVCQALGIPIGDWRIQTGCVSTVRCPSFSHYSVCTSSCPDTCSDLTASQNCATPCTEGCECNEGFVLSTSQCVPLHKCGCDFDGHYYTMGEFFWATANCTVQCLCEEGGDVYCFNKTCRSGEVCAVEDGYQGCFPKRETVCLLSQNQVLHTFDGAAYAFPSELSYTLLKTCPERPEYLEIDINKKKPDAGPAWLRGVRILVADQEVKIGGVGALEVKLNGQDVELPFFHPSGRLEIHRNKNSTTVESKGVVSVQYSDVGLLYIRLSTMYFNCTGGLCGFFNANASDEFCLPNGKCTDNLAVFLESWTTFEEICNGECGDLLKACNNDSELLKFYRSRSRCGIINDPSNSSFLECHGVVNVTAYYRTCLFRLCQSGGNESELCDSVARYASACKNADVEVGPWRTYDFCPLECPENSHFEECMTCTETCETLALGPICVDSCSEGCQCDEGYALQGSQCVPRSECGCNFEGHQLATNETFWVDQDCQIFCYCNGTDNSVHCETIPCRDDEYCMEESGLYYCQPRTDASCIVSGYGHYLTFDGYPFDFQTSCPLILCTTGSRPISDSFPKFIVTAKNEDRDPSLALWVKQVDVNVFGYSIVIHRAYKHTVLVNNERLYLPLKLGQGKINIFSFGFHVVVETDFGLKVVYDWKTFLSITVPRSMQNGTYGLCGRYNGNPDDDLEMPMGLPALSINEFGQSWVKRDTFCQVGCGDRCPSCAKVEGFSKVQQLCSLIPNQNAGFAKCHSKVNPTFFYKNCLFDSCIDGGAVQTACSWLQNYASTCQTQGIAVTGWRNYTSCSVTCPPNSHYESCVSVCQPRCAAIRLKSDCNHYCVEGCQCDAGYVLNGKSCILPHNCGCYSDGKYYEPKQLFWNGDCTRRCRCFRRNLIQCDPRQCKSDEECALRSGVRGCFSTKTSYCLAAGGGVFRTFDGAFLRFPANCAFVLSTICQKLPDISFQLIINFDKWSSPNLTIISPVYFYINEEQILINDRNTVKVNGTQVNVPFITGLATKIYSSEGFLVIDTSPDIQIYYNGFNVIKISISERLQNKVCGLCGNFNGDMTDDYVTLRGKPVVSSVVLAQSWKTNGMQKRPLAPSCNELQFSQYAATCDNVHIQAMQGDGYCLKLTDMKGFFQPCYGLLDPLPFYESCYLDGCYNHKKFQLCGSLAAYGEACRSFGILSTEWIEKENCSGVVEDPCVGADCPNRTCELDNGGELCGCIEPPPYGNNSHDIIDAEVTCKAAQMEVSISKCKLFQLGFEREGVRINDRQCSGIEGEDFISFQINNTKGNCGNIVQSNGTHIMYKNTIWIESANNTGNIITRDRTINVEFSCAYELDIKISLDSVVKPMLSVINLTVPTQEGSFTTKMALYKNASYKHPYRQGEVVLTTRDVLYVGVFVVGADSTHLILTLNKCYATPSRDSNDKLRYFIIEGGCQNIKDNTIGIEENGVSLTCRFHVTVFKFIGDYDEVHLHCAVSLCDSEKYSCKINCPQNSRIATDYSKEHKEQIISVGPIRRKRLDWCEDNGGCEQICTSRVDGPLCSCVTGSLQEDGRSCRASNSSVELQVWTLLLIMTQISLWHLIYKSGATS |
| 3401 | sp|Q924A0|TF7L2\_MOUSE | MPQLNGGGGDDLGANDELISFKDEGEQEEKNSENSSAERDLADVKSSLVNESETNQDSSSDSEAERRPPPRSESFRDKSRESLEEAAKRQDGGLFKGPPYPGYPFIMIPDLTSPYLPNGSLSPTARTYLQMKWPLLDVQAGSLQSRQTLKDARSPSPAHIVSNKVPVVQHPHHVHPLTPLITYSNEHFTPGNPPPHLPADVDPKTGIPRPPHPPDISPYYPLSPGTVGQIPHPLGWLVPQQGQPVYPITTGGFRHPYPTALTVNASMSRFPPHMVPPHHTLHTTGIPHPAIVTPTVKQESSQSDVGSLHSSKHQDSKKEEEKKKPHIKKPLNAFMLYMKEMRAKVVAECTLKESAAINQILGRRWHALSREEQAKYYELARKERQLHMQLYPGWSARDNYGKKKKRKRDKQPGETNEHSECFLNPCLSLPPITDLSAPKKCRARFGLDQQNNWCGPCSL |
| 3402 | sp|Q5F2E8|TAOK1\_MOUSE | MPSTNRAGSLKDPEIAELFFKEDPEKLFTDLREIGHGSFGAVYFARDVRTNEVVAIKKMSYSGKQSTEKWQDIIKEVKFLQRIKHPNSIEYKGCYLREHTAWLVMEYCLGSASDLLEVHKKPLQEVEIAAITHGALQGLAYLHSHTMIHRDIKAGNILLTEPGQVKLADFGSASMASPANSFVGTPYWMAPEVILAMDEGQYDGKVDVWSLGITCIELAERKPPLFNMNAMSALYHIAQNESPTLQSNEWSDYFRNFVDSCLQKIPQDRPTSEELLKHMFVLRERPETVLIDLIQRTKDAVRELDNLQYRKMKKLLFQEAHNGPAVEAQEEEEEQDHGVGRTGTVNSVGSNQSIPSMSISASSQSSSVNSLPDASDDKSELDMMEGDHTVMSNSSVIHLKPEEENYQEEGDPRTRASDPQSPPQVSRHKSHYRNREHFATIRTASLVTRQMQEHEQDSELREQMSGYKRMRRQHQKQLMTLENKLKAEMDEHRLRLDKDLETQRNNFAAEMEKLIKKHQAAMEKEAKVMANEEKKFQQHIQAQQKKELNSFLESQKREYKLRKEQLKEELNENQSTPKKEKQEWLSKQKENIQHFQAEEEANLLRRQRQYLELECRRFKRRMLLGRHNLEQDLVREELNKRQTQKDLEHAMLLRQHESMQELEFRHLNTIQKMRCELIRLQHQTELTNQLEYNKRRERELRRKHVMEVRQQPKSLKSKELQIKKQFQDTCKIQTRQYKALRNHLLETTPKSEHKAVLKRLKEEQTRKLAILAEQYDHSINEMLSTQALRLDEAQEAECQVLKMQLQQELELLNAYQSKIKMQAEAQHDRELRELEQRVSLRRALLEQKIEEEMLALQNERTERIRSLLERQAREIEAFDSESMRLGFSNMVLSNLSPEAFSHSYPGASSWSHNPTGGPGPHWGHPMGGTPQAWGHPMQGGPQPWGHPSGPMQGVPRGSSMGVRNSPQALRRTASGGRTEQGMSRSTSVTSQISNGSHMSYT |
| 3403 | sp|P9WQD5|TESA\_MYCTU | MLARHGPRYGGSVNGHSDDSSGDAKQAAPTLYIFPHAGGTAKDYVAFSREFSADVKRIAVQYPGQHDRSGLPPLESIPTLADEIFAMMKPSARIDDPVAFFGHSMGGMLAFEVALRYQSAGHRVLAFFVSACSAPGHIRYKQLQDLSDREMLDLFTRMTGMNPDFFTDDEFFVGALPTLRAVRAIAGYSCPPETKLSCPIYAFIGDKDWIATQDDMDPWRDRTTEEFSIRVFPGDHFYLNDNLPELVSDIEDKTLQWHDRA |
| 3404 | sp|Q9R0N9|SYT9\_MOUSE | MPGARDALCHQALQLLAELCARGALEHDSCQDFIYHLRDRARPRLRDPDISVSLLTLVVTACGLALFGVSLFVSWKLCWVPWRERGLFSGSKDNNQEPLNYTDTETNEQENSEDFLDPPTPCPDSSMKISHTSPDIPLSTQPGGQENCAHAVRVQRQVTEPTPSARHNSIRRQLNLSNPDFNIQQLQRQEQLTGIGRIKPELYKQRSLDNDDGRRSNSKACGKLNFILKYDCDLEQLIVKIHKAVNLPAKDFSGTSDPYVKIYLLPDRKTKHQTKVHRKTLNPVFDEVFLFPVHYNDLEARKLHFSVYDFDRFSRHDLIGQVVVDHFFDLADFPRECILWKDIEYVTNDNVDLGELMFSLCYLPTAGRLTITIIKARNLKAMDITGASDPYVKVSLMCDGRRLKKRKTSTKRNTLNPVYNEAIVFDVPPESIDQIHLSIAVMDYDRVGHNEVIGVCQVGNEAERLGRDHWSEMLSYPRKPIAHWHSLMEKR |
| 3405 | sp|P36371|TAP2\_MOUSE | MALSYLRPWVSLLLADMALLGLLQGSLGNLLPQGLPGLWIEGTLRLGVLWGLLKVGELLGLVGTLLPLLCLATPLFFSLRALVGGTASTSVVRVASASWGWLLAGYGAVALSWAVWAVLSPAGVQEKEPGQENRTLMKRLLKLSRPDLPFLIAAFFFLVVAVWGETLIPRYSGRVIDILGGDFDPDAFASAIFFMCLFSVGSSFSAGCRGGSFLFTMSRINLRIREQLFSSLLRQDLGFFQETKTGELNSRLSSDTSLMSRWLPFNANILLRSLVKVVGLYFFMLQVSPRLTFLSLLDLPLTIAAEKVYNPRHQAVLKEIQDAVAKAGQVVREAVGGLQTVRSFGAEEQEVSHYKEALERCRQLWWRRDLEKDVYLVIRRVMALGMQVLILNCGVQQILAGEVTRGGLLSFLLYQEEVGQYVRNLVYMYGDMLSNVGAAEKVFSYLDRKPNLPQPGILAPPWLEGRVEFQDVSFSYPRRPEKPVLQGLTFTLHPGTVTALVGPNGSGKSTVAALLQNLYQPTGGQLLLDGEPLTEYDHHYLHRQVVLVGQEPVLFSGSVKDNIAYGLRDCEDAQVMAAAQAACADDFIGEMTNGINTEIGEKGGQLAVGQKQRLAIARALVRNPRVLILDEATSALDAQCEQALQNWRSQGDRTMLVIAHRLHTVQNADQVLVLKQGRLVEHDQLRDGQDVYAHLVQQRLEA |
| 3406 | sp|Q9H2D6|TARA\_HUMAN | MEEVPGDALCEHFEANILTQNRCQNCFHPEEAHGARYQELRSPSGAEVPYCDLPRCPPAPEDPLSASTSGCQSVVDPGLRPGPKRGPSPSAGLPEEGPTAAPRSRSRELEAVPYLEGLTTSLCGSCNEDPGSDPTSSPDSATPDDTSNSSSVDWDTVERQEEEAPSWDELAVMIPRRPREGPRADSSQRAPSLLTRSPVGGDAAGQKKEDTGGGGRSAGQHWARLRGESGLSLERHRSTLTQASSMTPHSGPRSTTSQASPAQRDTAQAASTREIPRASSPHRITQRDTSRASSTQQEISRASSTQQETSRASSTQEDTPRASSTQEDTPRASSTQWNTPRASSPSRSTQLDNPRTSSTQQDNPQTSFPTCTPQRENPRTPCVQQDDPRASSPNRTTQRENSRTSCAQRDNPKASRTSSPNRATRDNPRTSCAQRDNPRASSPSRATRDNPTTSCAQRDNPRASRTSSPNRATRDNPRTSCAQRDNPRASSPSRATRDNPTTSCAQRDNPRASRTSSPNRATRDNPRTSCAQRDNPRASSPNRAARDNPTTSCAQRDNPRASRTSSPNRATRDNPRTSCAQRDNPRASSPNRATRDNPTTSCAQRDNPRASRTSSPNRATRDNPRTSCAQRDNPRASSPNRTTQQDSPRTSCARRDDPRASSPNRTIQQENPRTSCALRDNPRASSPSRTIQQENPRTSCAQRDDPRASSPNRTTQQENPRTSCARRDNPRASSRNRTIQRDNPRTSCAQRDNPRASSPNRTIQQENLRTSCTRQDNPRTSSPNRATRDNPRTSCAQRDNLRASSPIRATQQDNPRTCIQQNIPRSSSTQQDNPKTSCTKRDNLRPTCTQRDRTQSFSFQRDNPGTSSSQCCTQKENLRPSSPHRSTQWNNPRNSSPHRTNKDIPWASFPLRPTQSDGPRTSSPSRSKQSEVPWASIALRPTQGDRPQTSSPSRPAQHDPPQSSFGPTQYNLPSRATSSSHNPGHQSTSRTSSPVYPAAYGAPLTSPEPSQPPCAVCIGHRDAPRASSPPRYLQHDPFPFFPEPRAPESEPPHHEPPYIPPAVCIGHRDAPRASSPPRHTQFDPFPFLPDTSDAEHQCQSPQHEPLQLPAPVCIGYRDAPRASSPPRQAPEPSLLFQDLPRASTESLVPSMDSLHECPHIPTPVCIGHRDAPSFSSPPRQAPEPSLFFQDPPGTSMESLAPSTDSLHGSPVLIPQVCIGHRDAPRASSPPRHPPSDLAFLAPSPSPGSSGGSRGSAPPGETRHNLEREEYTVLADLPPPRRLAQRQPGPQAQCSSGGRTHSPGRAEVERLFGQERRKSEAAGAFQAQDEGRSQQPSQGQSQLLRRQSSPAPSRQVTMLPAKQAELTRRSQAEPPHPWSPEKRPEGDRQLQGSPLPPRTSARTPERELRTQRPLESGQAGPRQPLGVWQSQEEPPGSQGPHRHLERSWSSQEGGLGPGGWWGCGEPSLGAAKAPEGAWGGTSREYKESWGQPEAWEEKPTHELPRELGKRSPLTSPPENWGGPAESSQSWHSGTPTAVGWGAEGACPYPRGSERRPELDWRDLLGLLRAPGEGVWARVPSLDWEGLLELLQARLPRKDPAGHRDDLARALGPELGPPGTNDVPEQESHSQPEGWAEATPVNGHSPALQSQSPVQLPSPACTSTQWPKIKVTRGPATATLAGLEQTGPLGSRSTAKGPSLPELQFQPEEPEESEPSRGQDPLTDQKQADSADKRPAEGKAGSPLKGRLVTSWRMPGDRPTLFNPFLLSLGVLRWRRPDLLNFKKGWMSILDEPGEPPSPSLTTTSTSQWKKHWFVLTDSSLKYYRDSTAEEADELDGEIDLRSCTDVTEYAVQRNYGFQIHTKDAVYTLSAMTSGIRRNWIEALRKTVRPTSAPDVTKLSDSNKENALHSYSTQKGPLKAGEQRAGSEVISRGGPRKADGQRQALDYVELSPLTQASPQRARTPARTPDRLAKQEELERDLAQRSEERRKWFEATDSRTPEVPAGEGPRRGLGAPLTEDQQNRLSEEIEKKWQELEKLPLRENKRVPLTALLNQSRGERRGPPSDGHEALEKEVQALRAQLEAWRLQGEAPQSALRSQEDGHIPPGYISQEACERSLAEMESSHQQVMEELQRHHERELQRLQQEKEWLLAEETAATASAIEAMKKAYQEELSRELSKTRSLQQGPDGLRKQHQSDVEALKRELQVLSEQYSQKCLEIGALMRQAEEREHTLRRCQQEGQELLRHNQELHGRLSEEIDQLRGFIASQGMGNGCGRSNERSSCELEVLLRVKENELQYLKKEVQCLRDELQMMQKDKRFTSGKYQDVYVELSHIKTRSEREIEQLKEHLRLAMAALQEKESMRNSLAE |
| 3407 | sp|Q6NXT6|TAPT1\_HUMAN | MAGVGDAAAPGEGGGGGVDGPQRDGRGEAEQPGGSGGQGPPPAPQLTETLGFYESDRRRERRRGRTELSLLRFLSAELTRGYFLEHNEAKYTERRERVYTCLRIPRELEKLMVFGIFLCLDAFLYVFTLLPLRVFLALFRLLTLPCYGLRDRRLLQPAQVCDILKGVILVICYFMMHYVDYSMMYHLIRGQSVIKLYIIYNMLEVADRLFSSFGQDILDALYWTATEPKERKRAHIGVIPHFFMAVLYVFLHAILIMVQATTLNVAFNSHNKSLLTIMMSNNFVEIKGSVFKKFEKNNLFQMSNSDIKERFTNYVLLLIVCLRNMEQFSWNPDHLWVLFPDVCMVIASEIAVDIVKHAFITKFNDITADVYSEYRASLAFDLVSSRQKNAYTDYSDSVARRMGFIPLPLAVLLIRVVTSSIKVQGILSYACVILFYFGLISLKVLNSIVLLGKSCQYVKEAKMEEKLSNPPATCTPGKPSSKSQNKCKPSQGLSTEENLSASITKQPIHQKENIIPLLVTSNSDQFLTTPDGDEKDITQDNSELKHRSSKKDLLEIDRFTICGNRID |
| 3408 | sp|Q60756|TCF15\_MOUSE | MAFALLRPVGAHVLYPDVRLLSEDEENRSESDASDQSFGCCEGLEAARRGPGPGSGRRASNGAGPVVVVRQRQAANARERDRTQSVNTAFTALRTLIPTEPVDRKLSKIETLRLASSYIAHLANVLLLGDAADDGQPCFRAAGGGKSAVPAADGRQPRSICTFCLSNQRKGGSRRDLGGSCLKVRGVAPLRGPRR |
| 3409 | sp|Q9SLF3|TC132\_ARATH | MGDGTEFVVRSDREDKKLAEDRISDEQVVKNELVRSDEVRDDNEDEVFEEAIGSENDEQEEEEDPKRELFESDDLPLVETLKSSMVEHEVEDFEEAVGDLDETSSNEGGVKDFTAVGESHGAGEAEFDVLATKMNGDKGEGGGGGSYDKVESSLDVVDTTENATSTNTNGSNLAAEHVGIENGKTHSFLGNGIASPKNKEVVAEVIPKDDGIEEPWNDGIEVDNWEERVDGIQTEQEVEEGEGTTENQFEKRTEEEVVEGEGTSKNLFEKQTEQDVVEGEGTSKDLFENGSVCMDSESEAERNGETGAAYTSNIVTNASGDNEVSSAVTSSPLEESSSGEKGETEGDSTCLKPEQHLASSPHSYPESTEVHSNSGSPGVTSREHKPVQSANGGHDVQSPQPNKELEKQQSSRVHVDPEITENSHVETEPEVVSSVSPTESRSNPAALPPARPAGLGRASPLLEPASRAPQQSRVNGNGSHNQFQQAEDSTTTEADEHDETREKLQLIRVKFLRLAHRLGQTPHNVVVAQVLYRLGLAEQLRGRNGSRVGAFSFDRASAMAEQLEAAGQDPLDFSCTIMVLGKSGVGKSATINSIFDEVKFCTDAFQMGTKRVQDVEGLVQGIKVRVIDTPGLLPSWSDQAKNEKILNSVKAFIKKNPPDIVLYLDRLDMQSRDSGDMPLLRTISDVFGPSIWFNAIVGLTHAASVPPDGPNGTASSYDMFVTQRSHVIQQAIRQAAGDMRLMNPVSLVENHSACRTNRAGQRVLPNGQVWKPHLLLLSFASKILAEANALLKLQDNIPGRPFAARSKAPPLPFLLSSLLQSRPQPKLPEQQYGDEEDEDDLEESSDSDEESEYDQLPPFKSLTKAQMATLSKSQKKQYLDEMEYREKLLMKKQMKEERKRRKMFKKFAAEIKDLPDGYSENVEEESGGPASVPVPMPDLSLPASFDSDNPTHRYRYLDSSNQWLVRPVLETHGWDHDIGYEGVNAERLFVVKEKIPISVSGQVTKDKKDANVQLEMASSVKHGEGKSTSLGFDMQTVGKELAYTLRSETRFNNFRRNKAAAGLSVTHLGDSVSAGLKVEDKFIASKWFRIVMSGGAMTSRGDFAYGGTLEAQLRDKDYPLGRFLTTLGLSVMDWHGDLAIGGNIQSQVPIGRSSNLIARANLNNRGAGQVSVRVNSSEQLQLAMVAIVPLFKKLLSYYYPQTQYGQ |
| 3410 | sp|P35625|TIMP3\_HUMAN | MTPWLGLIVLLGSWSLGDWGAEACTCSPSHPQDAFCNSDIVIRAKVVGKKLVKEGPFGTLVYTIKQMKMYRGFTKMPHVQYIHTEASESLCGLKLEVNKYQYLLTGRVYDGKMYTGLCNFVERWDQLTLSQRKGLNYRYHLGCNCKIKSCYYLPCFVTSKNECLWTDMLSNFGYPGYQSKHYACIRQKGGYCSWYRGWAPPDKSIINATDP |
| 3411 | sp|Q8IVF5|TIAM2\_HUMAN | MGNSDSQYTLQGSKNHSNTITGAKQIPCSLKIRGIHAKEEKSLHGWGHGSNGAGYKSRSLARSCLSHFKSNQPYASRLGGPTCKVSRGVAYSTHRTNAPGKDFQGISAAFSTENGFHSVGHELADNHITSRDCNGHLLNCYGRNESIASTPPGEDRKSPRVLIKTLGKLDGCLRVEFHNGGNPSKVPAEDCSEPVQLLRYSPTLASETSPVPEARRGSSADSLPSHRPSPTDSRLRSSKGSSLSSESSWYDSPWGNAGELSEAEGSFLAPGMPDPSLHASFPPGDAKKPFNQSSSLSSLRELYKDANLGSLSPSGIRLSDEYMGTHASLSNRVSFASDIDVPSRVAHGDPIQYSSFTLPCRKPKAFVEDTAKKDSLKARMRRISDWTGSLSRKKRKLQEPRSKEGSDYFDSRSDGLNTDVQGSSQASAFLWSGGSTQILSQRSESTHAIGSDPLRQNIYENFMRELEMSRTNTENIETSTETAESSSESLSSLEQLDLLFEKEQGVVRKAGWLFFKPLVTVQKERKLELVARRKWKQYWVTLKGCTLLFYETYGKNSMDQSSAPRCALFAEDSIVQSVPEHPKKENVFCLSNSFGDVYLFQATSQTDLENWVTAVHSACASLFAKKHGKEDTLRLLKNQTKNLLQKIDMDSKMKKMAELQLSVVSDPKNRKAIENQIQQWEQNLEKFHMDLFRMRCYLASLQGGELPNPKSLLAAASRPSKLALGRLGILSVSSFHALVCSRDDSALRKRTLSLTQRGRNKKGIFSSLKGLDTLARKGKEKRPSITQVDELLHIYGSTVDGVPRDNAWEIQTYVHFQDNHGVTVGIKPEHRVEDILTLACKMRQLEPSHYGLQLRKLVDDNVEYCIPAPYEYMQQQVYDEIEVFPLNVYDVQLTKTGSVCDFGFAVTAQVDERQHLSRIFISDVLPDGLAYGEGLRKGNEIMTLNGEAVSDLDLKQMEALFSEKSVGLTLIARPPDTKATLCTSWSDSDLFSRDQKSLLPPPNQSQLLEEFLDNFKKNTANDFSNVPDITTGLKRSQTDGTLDQVSHREKMEQTFRSAEQITALCRSFNDSQANGMEGPRENQDPPPRSLARHLSDADRLRKVIQELVDTEKSYVKDLSCLFELYLEPLQNETFLTQDEMESLFGSLPEMLEFQKVFLETLEDGISASSDFNTLETPSQFRKLLFSLGGSFLYYADHFKLYSGFCANHIKVQKVLERAKTDKAFKAFLDARNPTKQHSSTLESYLIKPVQRVLKYPLLLKELVSLTDQESEEHYHLTEALKAMEKVASHINEMQKIYEDYGTVFDQLVAEQSGTEKEVTELSMGELLMHSTVSWLNPFLSLGKARKDLELTVFVFKRAVILVYKENCKLKKKLPSNSRPAHNSTDLDPFKFRWLIPISALQVRLGNPAGTENNSIWELIHTKSEIEGRPETIFQLCCSDSESKTNIVKVIRSILRENFRRHIKCELPLEKTCKDRLVPLKNRVPVSAKLASSRSLKVLKNSSSNEWTGETGKGTLLDSDEGSLSSGTQSSGCPTAEGRQDSKSTSPGKYPHPGLADFADNLIKESDILSDEDDDHRQTVKQGSPTKDIEIQFQRLRISEDPDVHPEAEQQPGPESGEGQKGGEQPKLVRGHFCPIKRKANSTKRDRGTLLKAQIRHQSLDSQSENATIDLNSVLEREFSVQSLTSVVSEECFYETESHGKS |
| 3412 | sp|P25723|TLD\_DROME | MKGMRLMPMKMKAKLVVLSVGALWMMMFFLVDYAEGRRLSQLPESECDFDFKEQPEDFFGILDSSLVPPKEPKDDIYQLKTTRQHSGRRRKQSHKSQNKAALRLPPPFLWTDDAVDVLQHSHSPTLNGQPIQRRRRAVTVRKERTWDYGVIPYEIDTIFSGAHKALFKQAMRHWENFTCIKFVERDPNLHANYIYFTVKNCGCCSFLGKNGNGRQPISIGRNCEKFGIIIHELGHTIGFHHEHARGDRDKHIVINKGNIMRGQEYNFDVLSPEEVDLPLLPYDLNSIMHYAKNSFSKSPYLDTITPIGIPPGTHLELGQRKRLSRGDIVQANLLYKCASCGRTYQQNSGHIVSPHFIYSGNGVLSEFEGSGDAGEDPSAESEFDASLTNCEWRITATNGEKVILHLQQLHLMSSDDCTQDYLEIRDGYWHKSPLVRRICGNVSGEVITTQTSRMLLNYVNRNAAKGYRGFKARFEVVCGGDLKLTKDQSIDSPNYPMDYMPDKECVWRITAPDNHQVALKFQSFELEKHDGCAYDFVEIRDGNHSDSRLIGRFCGDKLPPNIKTRSNQMYIRFVSDSSVQKLGFSAALMLDVDECKFTDHGCQHLCINTLGSYQCGCRAGYELQANGKTCEDACGGVVDATKSNGSLYSPSYPDVYPNSKQCVWEVVAPPNHAVFLNFSHFDLEGTRFHYTKCNYDYLIIYSKMRDNRLKKIGIYCGHELPPVVNSEQSILRLEFYSDRTVQRSGFVAKFVIDVDECSMNNGGCQHRCRNTFGSYQCSCRNGYTLAENGHNCTETRCKFEITTSYGVLQSPNYPEDYPRNIYCYWHFQTVLGHRIQLTFHDFEVESHQECIYDYVAIYDGRSENSSTLGIYCGGREPYAVIASTNEMFMVLATDAGLQRKGFKATFVSECGGYLRATNHSQTFYSHPRYGSRPYKRNMYCDWRIQADPESSVKIRFLHFEIEYSERCDYDYLEITEEGYSMNTIHGRFCGKHKPPIIISNSDTLLLRFQTDESNSLRGFAISFMAVDPPEDSVGEDFDAVTPFPGYLKSMYSSETGSDHLLPPSRLI |
| 3413 | sp|O95379|TFIP8\_HUMAN | MHSEAEESKEVATDVFNSKNLAVQAQKKILGKMVSKSIATTLIDDTSSEVLDELYRVTREYTQNKKEAEKIIKNLIKTVIKLAILYRNNQFNQDELALMEKFKKKVHQLAMTVVSFHQVDYTFDRNVLSRLLNECREMLHQIIQRHLTAKSHGRVNNVFDHFSDCEFLAALYNPFGNFKPHLQKLCDGINKMLDEENI |
| 3414 | sp|B3Y613|TLR2\_PANTR | MPHTLWMVWVLGVIISLSKEESSNQASLSCDRNGICKGSSGSLNSIPSGLTEAVKSLDLSNNRITYISNSDLQRCVNLQALVLTSNGINTIEEDSFSSLGSLEHLDLSYNYLSNLSSSWFKPLSSLTFLNLLGNPYKTLGETSLFSHLTKLQILRVGNMDTFTKIQRKDFAGLTFLEELEIDASDLQSYEPKSLKSIQNVSHLILHMKQHILLLEIFVDVTSSVECLELRDTDLDTFRFSELSTGETNSLIKKFTFRNVKITDESLFQVMKLLNQISGLLELEFDDCTLNGVGNFRASDNDRVIDPGKVETLTIRRLHIPRFYLFYDLSTLYSLTERVKRITVENSKVFLVPCLLSQHLKSLEYLDLSENLIVEEYLKNSACEDAWPSLQTLILRQNHLASLEKTGETLLTLKNLTNVDISKNSFHSMPETCQWPEKMKYLNLSSTRIHSVTGCIPKTLEILDVSNNNLNLFSLNLPQLKELYISRNKLMTLPDASLLPMLLVLKISRNAITTFSKEQLDSFHTLKTLEAGGNNFICSCEFLSFTQEQQALAKVLIDWPANYLCDSPSHVRGQQVQDVRLSVSECHRTALVSGMCCALFLLILLTGVLCHRFHGLWYMKMMWAWLQAKRKPRKAPSRNICYDAFVSYSERDAYWVENLMVQELENFNPPFKLCLHKRDFIPGKWIIDNIIDSIEKSHKTVFVLSENFVKSEWCKYELDFSHFRLFDENNDAAILILLEPIEKKAIPQRFCKLRKIMNTKTYLEWPMDEAQREGFWVNLRAAIKS |
| 3415 | sp|Q63HR2|TNS2\_HUMAN | MKSSGPVERLLRALGRRDSSRAASRPRKAEPHSFREKVFRKKPPVCAVCKVTIDGTGVSCRVCKVATHRKCEAKVTSACQALPPVELRRNTAPVRRIEHLGSTKSLNHSKQRSTLPRSFSLDPLMERRWDLDLTYVTERILAAAFPARPDEQRHRGHLRELAHVLQSKHRDKYLLFNLSEKRHDLTRLNPKVQDFGWPELHAPPLDKLCSICKAMETWLSADPQHVVVLYCKGNKGKLGVIVSAYMHYSKISAGADQALATLTMRKFCEDKVATELQPSQRRYISYFSGLLSGSIRMNSSPLFLHYVLIPMLPAFEPGTGFQPFLKIYQSMQLVYTSGVYHIAGPGPQQLCISLEPALLLKGDVMVTCYHKGGRGTDRTLVFRVQFHTCTIHGPQLTFPKDQLDEAWTDERFPFQASVEFVFSSSPEKIKGSTPRNDPSVSVDYNTTEPAVRWDSYENFNQHHEDSVDGSLTHTRGPLDGSPYAQVQRPPRQTPPAPSPEPPPPPMLSVSSDSGHSSTLTTEPAAESPGRPPPTAAERQELDRLLGGCGVASGGRGAGRETAILDDEEQPTVGGGPHLGVYPGHRPGLSRHCSCRQGYREPCGVPNGGYYRPEGTLERRRLAYGGYEGSPQGYAEASMEKRRLCRSLSEGLYPYPPEMGKPATGDFGYRAPGYREVVILEDPGLPALYPCPACEEKLALPTAALYGLRLEREAGEGWASEAGKPLLHPVRPGHPLPLLLPACGHHHAPMPDYSCLKPPKAGEEGHEGCSYTMCPEGRYGHPGYPALVTYSYGGAVPSYCPAYGRVPHSCGSPGEGRGYPSPGAHSPRAGSISPGSPPYPQSRKLSYEIPTEEGGDRYPLPGHLASAGPLASAESLEPVSWREGPSGHSTLPRSPRDAPCSASSELSGPSTPLHTSSPVQGKESTRRQDTRSPTSAPTQRLSPGEALPPVSQAGTGKAPELPSGSGPEPLAPSPVSPTFPPSSPSDWPQERSPGGHSDGASPRSPVPTTLPGLRHAPWQGPRGPPDSPDGSPLTPVPSQMPWLVASPEPPQSSPTPAFPLAASYDTNGLSQPPLPEKRHLPGPGQQPGPWGPEQASSPARGISHHVTFAPLLSDNVPQTPEPPTQESQSNVKFVQDTSKFWYKPHLSRDQAIALLKDKDPGAFLIRDSHSFQGAYGLALKVATPPPSAQPWKGDPVEQLVRHFLIETGPKGVKIKGCPSEPYFGSLSALVSQHSISPISLPCCLRIPSKDPLEETPEAPVPTNMSTAADLLRQGAACSVLYLTSVETESLTGPQAVARASSAALSCSPRPTPAVVHFKVSAQGITLTDNQRKLFFRRHYPVNSITFSSTDPQDRRWTNPDGTTSKIFGFVAKKPGSPWENVCHLFAELDPDQPAGAIVTFITKVLLGQRK |
| 3416 | sp|P08138|TNR16\_HUMAN | MGAGATGRAMDGPRLLLLLLLGVSLGGAKEACPTGLYTHSGECCKACNLGEGVAQPCGANQTVCEPCLDSVTFSDVVSATEPCKPCTECVGLQSMSAPCVEADDAVCRCAYGYYQDETTGRCEACRVCEAGSGLVFSCQDKQNTVCEECPDGTYSDEANHVDPCLPCTVCEDTERQLRECTRWADAECEEIPGRWITRSTPPEGSDSTAPSTQEPEAPPEQDLIASTVAGVVTTVMGSSQPVVTRGTTDNLIPVYCSILAAVVVGLVAYIAFKRWNSCKQNKQGANSRPVNQTPPPEGEKLHSDSGISVDSQSLHDQQPHTQTASGQALKGDGGLYSSLPPAKREEVEKLLNGSAGDTWRHLAGELGYQPEHIDSFTHEACPVRALLASWATQDSATLDALLAALRRIQRADLVESLCSESTATSPV |
| 3417 | sp|P58682|TLR8\_MOUSE | MENMPPQSWILTCFCLLSSGTSAIFHKANYSRSYPCDEIRHNSLVIAECNHRQLHEVPQTIGKYVTNIDLSDNAITHITKESFQKLQNLTKIDLNHNAKQQHPNENKNGMNITEGALLSLRNLTVLLLEDNQLYTIPAGLPESLKELSLIQNNIFQVTKNNTFGLRNLERLYLGWNCYFKCNQTFKVEDGAFKNLIHLKVLSLSFNNLFYVPPKLPSSLRKLFLSNAKIMNITQEDFKGLENLTLLDLSGNCPRCYNAPFPCTPCKENSSIHIHPLAFQSLTQLLYLNLSSTSLRTIPSTWFENLSNLKELHLEFNYLVQEIASGAFLTKLPSLQILDLSFNFQYKEYLQFINISSNFSKLRSLKKLHLRGYVFRELKKKHFEHLQSLPNLATINLGINFIEKIDFKAFQNFSKLDVIYLSGNRIASVLDGTDYSSWRNRLRKPLSTDDDEFDPHVNFYHSTKPLIKPQCTAYGKALDLSLNNIFIIGKSQFEGFQDIACLNLSFNANTQVFNGTEFSSMPHIKYLDLTNNRLDFDDNNAFSDLHDLEVLDLSHNAHYFSIAGVTHRLGFIQNLINLRVLNLSHNGIYTLTEESELKSISLKELVFSGNRLDRLWNANDGKYWSIFKSLQNLIRLDLSYNNLQQIPNGAFLNLPQSLQELLISGNKLRFFNWTLLQYFPHLHLLDLSRNELYFLPNCLSKFAHSLETLLLSHNHFSHLPSGFLSEARNLVHLDLSFNTIKMINKSSLQTKMKTNLSILELHGNYFDCTCDISDFRSWLDENLNITIPKLVNVICSNPGDQKSKSIMSLDLTTCVSDTTAAVLFFLTFLTTSMVMLAALVHHLFYWDVWFIYHMCSAKLKGYRTSSTSQTFYDAYISYDTKDASVTDWVINELRYHLEESEDKSVLLCLEERDWDPGLPIIDNLMQSINQSKKTIFVLTKKYAKSWNFKTAFYLALQRLMDENMDVIIFILLEPVLQYSQYLRLRQRICKSSILQWPNNPKAENLFWQSLKNVVLTENDSRYDDLYIDSIRQY |
| 3418 | sp|Q5JIZ5|TKSP\_THEKO | MKKFGAVVLALFLVGLMAGSVLAAPQKPAVRNVSQQKNYGLLTPGLFKKVQRMSWDQEVSTIIMFDNQADKEKAVEILDFLGAKIKYNYHIIPALAVKIKVKDLLIIAGLMDTGYFGNAQLSGVQFIQEDYVVKVAVETEGLDESAAQVMATNMWNLGYDGSGITIGIIDTGIDASHPDLQGKVIGWVDFVNGKTTPYDDNGHGTHVASIAAGTGAASNGKYKGMAPGAKLVGIKVLNGQGSGSISDIINGVDWAVQNKDKYGIKVINLSLGSSQSSDGTDSLSQAVNNAWDAGLVVVVAAGNSGPNKYTVGSPAAASKVITVGAVDKYDVITDFSSRGPTADNRLKPEVVAPGNWIIAARASGTSMGQPINDYYTAAPGTSMATPHVAGIAALLLQAHPSWTPDKVKTALIETADIVKPDEIADIAYGAGRVNAYKAAYYDNYAKLTFTGYVSNKGSQSHQFTISGAGFVTATLYWDNSGSDLDLYLYDPNGNQVDYSYTAYYGFEKVGYYNPTAGTWTIKVVSYSGSANYQVDVVSDGSLGQPSGGGSEPSPSPSPEPTVDEKTFTGTVHDYYDKSDTFTMTVNSGATKITGDLYFDTSYHDLDLYLYDPNQNLVDRSESSNSYEHVEYNNPAPGTWYFLVYAYDTYGYADYQLDAKVYYG |
| 3419 | sp|Q91YX0|THMS2\_MOUSE | MEPVPLQDFVSGLDPTSLPRVLRVCSGVYFEGSVYELFGNECCLSTGDLIKVTHVQLQKVVCEYPETGQTLELNPNFTGLFSPLTSLRSYRTLEDLVSAMPQNSTRWPIYFKSTQRIVTKASVVPEDQPLRLEAVEIHHGIRYARCVQVSKTKELLHLPLSQKGPFWRCKPSAPQTLHQILQDPALKDLTLSCPSLPWNSVILKPQYMLQAIMHMRSSIVKIPSTLEVEVEDVTASSQHIHFFKPLRLSEVLAGGGPFPLTTEILEVPEGPPVFLSPWVSFLRKGQRLCIYGPASPSWRVVASSKSRKVPRYFMLSGAYQGKLKRRPREFSTAYDLLGALQPGRPLRVVATKDCDGNEEENPDFSFLAVGDRLEVLRSGQVCGTKGQDIDVLVCQRLSEQSGEEEEDLEEIEDEAEDKEQILLPLYLSGSFVEEVNDSRRYNLVDLTAQYSLPCEVKVVTKDTRHPTDPLASFPGLRLEEKLTEPFLVVSLDSQPEMCFEIPPRWLDLTVVEAEGQPAQVARPLSIAPVEELSEAFYYSLRKLPASESQAPPPRPPKSQGINKKQQNIQSCKESSVKPQVVEPQKSCPQPQLKAKTLEALPKNKSNVYSKISVHKKDRKPNPQTQNSVLSMKPKTSSSLGKHSTMESHLLPDPDMDDHDYEEI |
| 3420 | sp|Q9BVK8|TM147\_HUMAN | MTLFHFGNCFALAYFPYFITYKCSGLSEYNAFWKCVQAGVTYLFVQLCKMLFLATFFPTWEGGIYDFIGEFMKASVDVADLIGLNLVMSRNAGKGEYKIMVAALGWATAELIMSRCIPLWVGARGIEFDWKYIQMSIDSNISLVHYIVASAQVWMITRYDLYHTFRPAVLLLMFLSVYKAFVMETFVHLCSLGSWAALLARAVVTGLLALSTLALYVAVVNVHS |
| 3421 | sp|Q94KI8|TPC1\_ARATH | MEDPLIGRDSLGGGGTDRVRRSEAITHGTPFQKAAALVDLAEDGIGLPVEILDQSSFGESARYYFIFTRLDLIWSLNYFALLFLNFFEQPLWCEKNPKPSCKDRDYYYLGELPYLTNAESIIYEVITLAILLVHTFFPISYEGSRIFWTSRLNLVKVACVVILFVDVLVDFLYLSPLAFDFLPFRIAPYVRVIIFILSIRELRDTLVLLSGMLGTYLNILALWMLFLLFASWIAFVMFEDTQQGLTVFTSYGATLYQMFILFTTSNNPDVWIPAYKSSRWSSVFFVLYVLIGVYFVTNLILAVVYDSFKEQLAKQVSGMDQMKRRMLEKAFGLIDSDKNGEIDKNQCIKLFEQLTNYRTLPKISKEEFGLIFDELDDTRDFKINKDEFADLCQAIALRFQKEEVPSLFEHFPQIYHSALSQQLRAFVRSPNFGYAISFILIINFIAVVVETTLDIEESSAQKPWQVAEFVFGWIYVLEMALKIYTYGFENYWREGANRFDFLVTWVIVIGETATFITPDENTFFSNGEWIRYLLLARMLRLIRLLMNVQRYRAFIATFITLIPSLMPYLGTIFCVLCIYCSIGVQVFGGLVNAGNKKLFETELAEDDYLLFNFNDYPNGMVTLFNLLVMGNWQVWMESYKDLTGTWWSITYFVSFYVITILLLLNLVVAFVLEAFFTELDLEEEEKCQGQDSQEKRNRRRSAGSKSRSQRVDTLLHHMLGDELSKPECSTSDT |
| 3422 | sp|P0DI81|TPC2A\_HUMAN | MSGSFYFVIVGHHDNPVFEMEFLPAGKAESKDDHRHLNQFIAHAALDLVDENMWLSNNMYLKTVDKFNEWFVSAFVTAGHMRFIMLHDIRQEDGIKNFFTDVYDLYIKFSMNPFYEPNSPIRSSAFDRKVQFLGKKHLLS |
| 3423 | sp|Q0KL02|TRIO\_MOUSE | MSGSSGGATAPAASSGPAAAASAAGSGCGGGAGEGAEEAAKDLADIAAFFRSGFRKNDEMKAMDVLPILKEKVAYLSGGRDKRGGPILTFPARSNHDRIRQEDLRRLISYLACIPSEEVCKRGFTVIVDMRGSKWDSIKPLLKILQESFPCCIHIALIIKPDNFWQKQRTNFGSSKFEFETNMVSLEGLTKVVDPSQLTPEFDGCLEYNHEEWIEIRVAFEEYISNAAHMLSRLEELQDVLAKKELPQDLEGARNMIDEHSQLKKKVIKAPIEDLDLEGQKLLQRIQSSDSFPKKNSGSGNADLQNLLPKVSTMLDRLHSTRQHLHQMWHVRKLKLDQCFQLRLFEQDAEKMFDWITHNKGLFLNSYTEIGTSHPHAMELQTQHNHFAMNCMNVYVNINRIMSVANRLVESGHYASQQIKQIANQLEQEWKAFAAALDERSTLLDMSSIFHQKAEKYMSNVDSWCKACGEVDLPSELQDLEDAIHHHQGIYEHITLAYSEVSQDGKSLLDKLQRPLTPGSSDSLTASANYSKAVHHVLDVIHEVLHHQRQLENIWQHRKVRLHQRLQLCVFQQDVQQVLDWIENHGEAFLSKHTGVGKSLHRARALQKRHEDFEEVAQNTYTNADKLLEAAEQLAQTGECDPEEIYQAAHQLEDRIQDFVRRVEQRKILLDMSVSFHTHVKELWTWLEELQKELLDDVYAESVEAVQDLIKRFGQQQQTTLQVTVNVIKEGEDLIQQLRDSAISSNKTPHNSSINHIETVLQQLDEAQSQMEELFQERKIKLELFLQLRIFERDAIDIISDLESWNDELSQQMNDFDTEDLTIAEQRLQHHADKALTMNNLTFDVIHQGQDLLQYVNEVQASGVELLCDRDVDMATRVQDLLEFLHEKQQELDLAAEQHRKHLEQCVQLRHLQAEVKQVLGWIRNGESMLNAGLITASSLQEAEQLQREHEQFQHAIEKTHQSALQVQQKAEAMLQANHYDMDMIRDCAEKVASHWQQLMLKMEDRLKLVNASVAFYKTSEQVCSVLESLEQEYKREEDWCGGADKLGPNSETDHVTPMISKHLEQKEAFLKACTLARRNADVFLKYLHRNSVSMPGMVTHIKAPEQQVKNILNELFQRENRVLHYWTMRKRRLDQCQQYVVFERSAKQALEWIHDNGEFYLSTHTSTGSSIQHTQELLKEHEEFQITAKQTKERVKLLIQLADGFCEKGHAHAAEIKKCVTAVDKRYRDFSLRMEKYRTSLEKALGISSDSNKSSKSLQLDIIPASIPGSEVKLRDAAHELNEEKRKSARRKEFIMAELIQTEKAYVRDLRECMDTYLWEMTSGVEEIPPGIVNKELIIFGNMQEIYEFHNNIFLKELEKYEQLPEDVGHCFVTWADKFQMYVTYCKNKPDSTQLILEHAGSYFDEIQQRHGLANSISSYLIKPVQRITKYQLLLKELLTCCEEGKGEIKDGLEVMLSVPKRANDAMHLSMLEGFDENIESQGELILQESFQVWDPKTLIRKGRERHLFLFEMSLVFSKEVKDSSGRSKYLYKSKLFTSELGVTEHVEGDPCKFALWVGRTPTSDNKIVLKASSIENKQDWIKHIREVIQERTVHLRGALKEPIHIPKTAPAARQKGRRDGEDLDSQGDGSSQPDTISIASRTSQNTLDSDKLSGGCELTVVIHDFTACNSNELTIRRGQTVEVLERPHDKPDWCLVRTTDRSPAAEGLVPCGSLCIAHSRSSMEMEGIFNHKDSLSVSSNDASPPASVASLQPHMIGAQSSPGPKRPGNTLRKWLTSPVRRLSSGKADGHAKKLAHKHKKSREVRKSADAGSQKDSDDSAATPQDETIEERGRNEGLSSGTLSKSSSSGMQSCGEEEGEEGADAVPLPPPMAIQQHSLLQPDSQDDKASSRLLVRPTSSETPSAAELVSAIEELVKSKMALEDRPSSLLVDQGDSSSPSFNPSDNSLLSSSSPIDEMEERKCSSLKRRHYVLQELVETERDYVRDLGCVVEGYMALMKEDGVPDDMKGKDKIVFGNIHQIYDWHRDFFLGELEKCLEDPEKLGSLFVKHERRLHMYIVYCQNKPKSEHIVSEYIDTFFEDLKQRLGHRLQLTDLLIKPVQRIMKYQLLLKDFLKYSKKASLDTSELEKAVEVMCIVPKRCNDMMNVGRLQGFDGKIVAQGKLLLQDTFLVTDQDAGLLPRCKERRVFLFEQIVIFSEPLDKKKGFSMPGFLFKNSIKVSCLCLEENVESDPCKFALTSRTGDAVETFVLHSSSPSVRQTWIHEINQILENQRNFLNALTSPIEYQRNHSGGGGSGSGGSSGGGGGSGGSGASSGGSSSHGSGPSSCSSGPSSSRSRPSRIPQPVRHHPPMLVSSAASSQAEADKMSGMSAPSPSLPTPSSSLALEASLGQPSRLPLSGDSEGHERETEPIPKMKVMESPRKAPGSTSGTSQDGNTKDARGNLGSLPLGKTRPGAVSPLNSPLSTTFPSPFGKEAFPPSSPLQKGGSFWSSIPASPASRPSSFTFPGDSDSLQRQTHRHAAPSKDTDRMSTCSSASEQSVQSTQSNGEGSSSSNISTMLVTHEYTAVKEDEINVYQGEVVQILASNQQNMFLVFRAATDQCPAAEGWIPGFVLGHTSAVIMENPDGTLKKSTSWHTALRLRKKSEKKDKDGKRDGKLENGYRKPREGLSNKVSVKLLNPNYIYDVPPEFVIPLSEVTCETGETVVFRCRVCGRPKASITWKGPEHNTLNNDDHYSISYSDIGEATLKIIGVSTEDDGIYTCIAVNDMGSASSSASLRVLGPGSDGIVVTWKDNFDAFYSEVAELGRGRFAVVKKCDQKGTKRAVATKFVNKKLMKRDQVTHELGILQNLQHPLLVSLLDTFETPTSYVLVLEMADQGRLLDCVVRWGSLTEGKVRAHLGEVLEAVRYLHNCRIAHLDLKPENILVDQSLAKPTIKLADFGDAVQLNTTYYIHQLLGNPEFAAPEIILGNPVSLTADTWSVGVLTYVLLSGVSPFLDDSVEETCLNICRLDFSFPEDYFQGVSQKAKEFVCFLLQEDPAKRPSAALALQEQWLQAGNGSGKGTGVLDTSRLTSFIERRKHQNDVRPIRSIKNFLQSRLLPRV |
| 3424 | sp|O89023|TPP1\_MOUSE | MGLQARLLGLLALVIAGKCTYNPEPDQRWMLPPGWVSLGRVDPEEELSLTFALKQRNLERLSELVQAVSDPSSPQYGKYLTLEDVAELVQPSPLTLLTVQKWLSAAGARNCDSVTTQDFLTCWLSVRQAELLLPGAEFHRYVGGPTKTHVIRSPHPYQLPQALAPHVDFVGGLHRFPPSSPRQRPEPQQVGTVSLHLGVTPSVLRQRYNLTAKDVGSGTTNNSQACAQFLEQYFHNSDLTEFMRLFGGSFTHQASVAKVVGKQGRGRAGIEASLDVEYLMSAGANISTWVYSSPGRHEAQEPFLQWLLLLSNESSLPHVHTVSYGDDEDSLSSIYIQRVNTEFMKAAARGLTLLFASGDTGAGCWSVSGRHKFRPSFPASSPYVTTVGGTSFKNPFLITDEVVDYISGGGFSNVFPRPPYQEEAVAQFLKSSSHLPPSSYFNASGRAYPDVAALSDGYWVVSNMVPIPWVSGTSASTPVFGGILSLINEHRILNGRPPLGFLNPRLYQQHGTGLFDVTHGCHESCLNEEVEGQGFCSGPGWDPVTGWGTPNFPALLKTLLNP |
| 3425 | sp|P09493|TPM1\_HUMAN | MDAIKKKMQMLKLDKENALDRAEQAEADKKAAEDRSKQLEDELVSLQKKLKGTEDELDKYSEALKDAQEKLELAEKKATDAEADVASLNRRIQLVEEELDRAQERLATALQKLEEAEKAADESERGMKVIESRAQKDEEKMEIQEIQLKEAKHIAEDADRKYEEVARKLVIIESDLERAEERAELSEGKCAELEEELKTVTNNLKSLEAQAEKYSQKEDRYEEEIKVLSDKLKEAETRAEFAERSVTKLEKSIDDLEDELYAQKLKYKAISEELDHALNDMTSI |
| 3426 | sp|P53738|TR112\_YEAST | MKFLTTNFLKCSVKACDTSNDNFPLQYDGSKCQLVQDESIEFNPEFLLNIVDRVDWPAVLTVAAELGNNALPPTKPSFPSSIQELTDDDMAILNDLHTLLLQTSIAEGEMKCRNCGHIYYIKNGIPNLLLPPHLV |
| 3427 | sp|P49455|TPM4\_DROME | MDAIKKKMQAMKVDKDGALERALVCEQEARDANTRAEKAEEEARQLQKKIQTVENELDQTQEALTLVTGKLEEKNKALQNAESEVAALNRRIQLLEEDLERSEERLGSATAKLSEASQAADESERARKILENRALADEERMDALENQLKEARFLAEEADKKYDEVARKLAMVEADLERAEERAEQGENKIVELEEELRVVGNNLKSLEVSEEKANQREEEYKNQIKTLNTRLKEAEARAEFAERSVQKLQKEVDRLEDDLIVEKERYCMIGDSLDEAFVDLIKGLEPFWNPRNPKPPTPKLPTPTPEELAAMEEARAAAEAAAAAEAEAAEAAAAAGEAGPDGAPAAPGEEKAPAKEPTPPKEPTPPPPPPPPFEYSIDLPPEGAEVPYVKNYEPPPPGSEPEPVPAAEGEAAPAAEGAAPPAEGAAPPAEGAVPPADGAAPPAEGAAPAAEGAAPPADGAAPPAEAAAAPADAAAPAAEAAPAEAPAAEATAAEAPPAEAAPAEAAPAAAEGEAPPA |
| 3428 | sp|Q96DX7|TRI44\_HUMAN | MASGVGAAFEELPHDGTCDECEPDEAPGAEEVCRECGFCYCRRHAEAHRQKFLSHHLAEYVHGSQAWTPPADGEGAGKEEAEVKVEQEREIESEAGEESESEEESESEEESETEEESEDESDEESEEDSEEEMEDEQESEAEEDNQEEGESEAEGETEAESEFDPEIEMEAERVAKRKCPDHGLDLSTYCQEDRQLICVLCPVIGAHQGHQLSTLDEAFEELRSKDSGGLKAAMIELVERLKFKSSDPKVTRDQMKMFIQQEFKKVQKVIADEEQKALHLVDIQEAMATAHVTEILADIQSHMDRLMTQMAQAKEQLDTSNESAEPKAEGDEEGPSGASEEEDT |
| 3429 | sp|Q8WV44|TRI41\_HUMAN | MAAVAMTPNPVQTLQEEAVCAICLDYFTDPVSIGCGHNFCRVCVTQLWGGEDEEDRDELDREEEEEDGEEEEVEAVGAGAGWDTPMRDEDYEGDMEEEVEEEEEGVFWTSGMSRSSWDNMDYVWEEEDEEEDLDYYLGDMEEEDLRGEDEEDEEEVLEEVEEEDLDPVTPLPPPPAPRRCFTCPQCRKSFPRRSFRPNLQLANMVQVIRQMHPTPGRGSRVTDQGICPKHQEALKLFCEVDEEAICVVCRESRSHKQHSVVPLEEVVQEYKAKLQGHVEPLRKHLEAVQKMKAKEERRVTELKSQMKSELAAVASEFGRLTRFLAEEQAGLERRLREMHEAQLGRAGAAASRLAEQAAQLSRLLAEAQERSQQGGLRLLQDIKETFNRCEEVQLQPPEVWSPDPCQPHSHDFLTDAIVRKMSRMFCQAARVDLTLDPDTAHPALMLSPDRRGVRLAERRQEVADHPKRFSADCCVLGAQGFRSGRHYWEVEVGGRRGWAVGAARESTHHKEKVGPGGSSVGSGDASSSRHHHRRRRLHLPQQPLLQREVWCVGTNGKRYQAQSSTEQTLLSPSEKPRRFGVYLDYEAGRLGFYNAETLAHVHTFSAAFLGERVFPFFRVLSKGTRIKLCP |
| 3430 | sp|P32600|TOR2\_YEAST | MNKYINKYTTPPNLLSLRQRAEGKHRTRKKLTHKSHSHDDEMSTTSNTDSNHNGPNDSGRVITGSAGHIGKISFVDSELDTTFSTLNLIFDKLKSDVPQERASGANELSTTLTSLAREVSAEQFQRFSNSLNNKIFELIHGFTSSEKIGGILAVDTLISFYLSTEELPNQTSRLANYLRVLIPSSDIEVMRLAANTLGRLTVPGGTLTSDFVEFEVRTCIDWLTLTADNNSSSSKLEYRRHAALLIIKALADNSPYLLYPYVNSILDNIWVPLRDAKLIIRLDAAVALGKCLTIIQDRDPALGKQWFQRLFQGCTHGLSLNTNDSVHATLLVFRELLSLKAPYLRDKYDDIYKSTMKYKEYKFDVIRREVYAILPLLAAFDPAIFTKKYLDRIMVHYLRYLKNIDMNAANNSDKPFILVSIGDIAFEVGSSISPYMTLILDNIREGLRTKFKVRKQFEKDLFYCIGKLACALGPAFAKHLNKDLLNLMLNCPMSDHMQETLMILNEKIPSLESTVNSRILNLLSISLSGEKFIQSNQYDFNNQFSIEKARKSRNQSFMKKTGESNDDITDAQILIQCFKMLQLIHHQYSLTEFVRLITISYIEHEDSSVRKLAALTSCDLFIKDDICKQTSVHALHSVSEVLSKLLMIAITDPVAEIRLEILQHLGSNFDPQLAQPDNLRLLFMALNDEIFGIQLEAIKIIGRLSSVNPAYVVPSLRKTLLELLTQLKFSNMPKKKEESATLLCTLINSSDEVAKPYIDPILDVILPKCQDASSAVASTALKVLGELSVVGGKEMTRYLKELMPLIINTFQDQSNSFKRDAALTTLGQLAASSGYVVGPLLDYPELLGILINILKTENNPHIRRGTVRLIGILGALDPYKHREIEVTSNSKSSVEQNAPSIDIALLMQGVSPSNDEYYPTVVIHNLMKILNDPSLSIHHTAAIQAIMHIFQNLGLRCVSFLDQIIPGIILVMRSCPPSQLDFYFQQLGSLISIVKQHIRPHVEKIYGVIREFFPIIKLQITIISVIESISKALEGEFKRFVPETLTFFLDILENDQSNKRIVPIRILKSLVTFGPNLEDYSHLIMPIVVRMTEYSAGSLKKISIITLGRLAKNINLSEMSSRIVQALVRILNNGDRELTKATMNTLSLLLLQLGTDFVVFVPVINKALLRNRIQHSVYDQLVNKLLNNECLPTNIIFDKENEVPERKNYEDEMQVTKLPVNQNILKNAWYCSQQKTKEDWQEWIRRLSIQLLKESPSACLRSCSSLVSVYYPLARELFNASFSSCWVELQTSYQEDLIQALCKALSSSENPPEIYQMLLNLVEFMEHDDKPLPIPIHTLGKYAQKCHAFAKALHYKEVEFLEEPKNSTIEALISINNQLHQTDSAIGILKHAQQHNELQLKETWYEKLQRWEDALAAYNEKEAAGEDSVEVMMGKLRSLYALGEWEELSKLASEKWGTAKPEVKKAMAPLAAGAAWGLEQWDEIAQYTSVMKSQSPDKEFYDAILCLHRNNFKKAEVHIFNARDLLVTELSALVNESYNRAYNVVVRAQIIAELEEIIKYKKLPQNSDKRLTMRETWNTRLLGCQKNIDVWQRILRVRSLVIKPKEDAQVRIKFANLCRKSGRMALAKKVLNTLLEETDDPDHPNTAKASPPVVYAQLKYLWATGLQDEALKQLINFTSRMAHDLGLDPNNMIAQSVPQQSKRVPRHVEDYTKLLARCFLKQGEWRVCLQPKWRLSNPDSILGSYLLATHFDNTWYKAWHNWALANFEVISMLTSVSKKKQEGSDASSVTDINEFDNGMIGVNTFDAKEVHYSSNLIHRHVIPAIKGFFHSISLSESSSLQDALRLLTLWFTFGGIPEATQAMHEGFNLIQIGTWLEVLPQLISRIHQPNQIVSRSLLSLLSDLGKAHPQALVYPLMVAIKSESLSRQKAALSIIEKMRIHSPVLVDQAELVSHELIRMAVLWHEQWYEGLDDASRQFFGEHNTEKMFAALEPLYEMLKRGPETLREISFQNSFGRDLNDAYEWLMNYKKSKDVSNLNQAWDIYYNVFRKIGKQLPQLQTLELQHVSPKLLSAHDLELAVPGTRASGGKPIVKISKFEPVFSVISSKQRPRKFCIKGSDGKDYKYVLKGHEDIRQDSLVMQLFGLVNTLLQNDAECFRRHLDIQQYPAIPLSPKSGLLGWVPNSDTFHVLIREHREAKKIPLNIEHWVMLQMAPDYDNLTLLQKVEVFTYALNNTEGQDLYKVLWLKSRSSETWLERRTTYTRSLAVMSMTGYILGLGDRHPSNLMLDRITGKVIHIDFGDCFEAAILREKFPEKVPFRLTRMLTYAMEVSGIEGSFRITCENVMKVLRDNKGSLMAILEAFAFDPLINWGFDLPTKKIEEETGIQLPVMNANELLSNGAITEEEVQRVENEHKNAIRNARAMLVLKRITDKLTGNDIRRFNDLDVPEQVDKLIQQATSVENLCQHYIGWCPFW |
| 3431 | sp|Q3TBL6|TP8L3\_MOUSE | MDSDSGEQSEGEPGTAAGPHVFSSKNLALQAQKKILSKIASKTVANMLIDDTSSEIFDELYKVTEIHTHNKKEAHKIMKDAIKVAIKIGILYRNKQFSQEEVIIVEKLRKKLNQTAMTMVSFYEVEYTFDTNVLSKLLHECKDLVHELVQRHLTPRTHGRINHVFNHFADVEFLSTLYGPHGNCRPNLKRICEGINKLLDDKIL |
| 3432 | sp|P30181|TOP1A\_ARATH | MGTETVSKPVMDNGSGDSDDDKPLAFKRNNTVASNSNQSKSNSQRSKAVPTTKVSPMRSPVTSPNGTTPSNKTSIVKSSMPSSSSKASPAKSPLRNDMPSTVKDRSQLQKDQSECKIEHEDSEDDRPLSSILSGNKGPTSSRQVSSPQPEKKNNGDRPLDRASRIIKDESDDETPISSMFRKKIDSGMSGGNQLSNDEKKPLVQKLHQNGSTVKNEVPNGKVLGKRPLEKNSSADQSSLKKAKISASPTSVKMKQDSVKKEIDDKGRVLVSPKMKAKQLSTREDGTDDDDDDDVPISKRFKSDSSNSNTSSAKPKAVKLNSTSSAAKPKARNVVSPRSRAMTKNTKKVTKDSKYSTSSKSSPSSGDGQKKWTTLVHNGVIFPPPYKPHGIKILYKGKPVDLTIEQEEVATMFAVMRETDYYTKPQFRENFWNDWRRLLGKKHVIQKLDDCDFTPIYEWHLEEKEKKKQMSTEEKKALKEEKMKQEEKYMWAVVDGVKEKIGNFRVEPPGLFRGRGEHPKMGKLKKRIHPCEITLNIGKGAPIPECPIAGERWKEVKHDNTVTWLAFWADPINPKEFKYVFLGAGSSLKGLSDKEKYEKARNLTDHIDNIRTTYTKNFTAKDVKMRQIAVATYLIDKLALRAGNEKDDDEADTVGCCTLKVGNVECIPPNKIKFDFLGKDSIQYVNTVEVEPLVYKAIGQFQAGKSKTDDLFDELDTSKLNAHLKELVPGLTAKVFRTYNASITLDEMLSQETKDGDVTQKIVVYQKANKEVAIICNHQRTVSKTHGAQIEKLTARIEELKEVLKELKTNLDRAKKGKPPLEGSDGKKIRSLEPNAWEKKIAQQSAKIEKMERDMHTKEDLKTVALGTSKINYLDPRITVAWCKRHEVPIEKIFTKSLLEKFAWAMDVEPEYRFSRR |
| 3433 | sp|Q12888|TP53B\_HUMAN | MDPTGSQLDSDFSQQDTPCLIIEDSQPESQVLEDDSGSHFSMLSRHLPNLQTHKENPVLDVVSNPEQTAGEERGDGNSGFNEHLKENKVADPVDSSNLDTCGSISQVIEQLPQPNRTSSVLGMSVESAPAVEEEKGEELEQKEKEKEEDTSGNTTHSLGAEDTASSQLGFGVLELSQSQDVEENTVPYEVDKEQLQSVTTNSGYTRLSDVDANTAIKHEEQSNEDIPIAEQSSKDIPVTAQPSKDVHVVKEQNPPPARSEDMPFSPKASVAAMEAKEQLSAQELMESGLQIQKSPEPEVLSTQEDLFDQSNKTVSSDGCSTPSREEGGCSLASTPATTLHLLQLSGQRSLVQDSLSTNSSDLVAPSPDAFRSTPFIVPSSPTEQEGRQDKPMDTSVLSEEGGEPFQKKLQSGEPVELENPPLLPESTVSPQASTPISQSTPVFPPGSLPIPSQPQFSHDIFIPSPSLEEQSNDGKKDGDMHSSSLTVECSKTSEIEPKNSPEDLGLSLTGDSCKLMLSTSEYSQSPKMESLSSHRIDEDGENTQIEDTEPMSPVLNSKFVPAENDSILMNPAQDGEVQLSQNDDKTKGDDTDTRDDISILATGCKGREETVAEDVCIDLTCDSGSQAVPSPATRSEALSSVLDQEEAMEIKEHHPEEGSSGSEVEEIPETPCESQGEELKEENMESVPLHLSLTETQSQGLCLQKEMPKKECSEAMEVETSVISIDSPQKLAILDQELEHKEQEAWEEATSEDSSVVIVDVKEPSPRVDVSCEPLEGVEKCSDSQSWEDIAPEIEPCAENRLDTKEEKSVEYEGDLKSGTAETEPVEQDSSQPSLPLVRADDPLRLDQELQQPQTQEKTSNSLTEDSKMANAKQLSSDAEAQKLGKPSAHASQSFCESSSETPFHFTLPKEGDIIPPLTGATPPLIGHLKLEPKRHSTPIGISNYPESTIATSDVMSESMVETHDPILGSGKGDSGAAPDVDDKLCLRMKLVSPETEASEESLQFNLEKPATGERKNGSTAVAESVASPQKTMSVLSCICEARQENEARSEDPPTTPIRGNLLHFPSSQGEEEKEKLEGDHTIRQSQQPMKPISPVKDPVSPASQKMVIQGPSSPQGEAMVTDVLEDQKEGRSTNKENPSKALIERPSQNNIGIQTMECSLRVPETVSAATQTIKNVCEQGTSTVDQNFGKQDATVQTERGSGEKPVSAPGDDTESLHSQGEEEFDMPQPPHGHVLHRHMRTIREVRTLVTRVITDVYYVDGTEVERKVTEETEEPIVECQECETEVSPSQTGGSSGDLGDISSFSSKASSLHRTSSGTSLSAMHSSGSSGKGAGPLRGKTSGTEPADFALPSSRGGPGKLSPRKGVSQTGTPVCEEDGDAGLGIRQGGKAPVTPRGRGRRGRPPSRTTGTRETAVPGPLGIEDISPNLSPDDKSFSRVVPRVPDSTRRTDVGAGALRRSDSPEIPFQAAAGPSDGLDASSPGNSFVGLRVVAKWSSNGYFYSGKITRDVGAGKYKLLFDDGYECDVLGKDILLCDPIPLDTEVTALSEDEYFSAGVVKGHRKESGELYYSIEKEGQRKWYKRMAVILSLEQGNRLREQYGLGPYEAVTPLTKAADISLDNLVEGKRKRRSNVSSPATPTASSSSSTTPTRKITESPRASMGVLSGKRKLITSEEERSPAKRGRKSATVKPGAVGAGEFVSPCESGDNTGEPSALEEQRGPLPLNKTLFLGYAFLLTMATTSDKLASRSKLPDGPTGSSEEEEEFLEIPPFNKQYTESQLRAGAGYILEDFNEAQCNTAYQCLLIADQHCRTRKYFLCLASGIPCVSHVWVHDSCHANQLQNYRNYLLPAGYSLEEQRILDWQPRENPFQNLKVLLVSDQQQNFLELWSEILMTGGAASVKQHHSSAHNKDIALGVFDVVVTDPSCPASVLKCAEALQLPVVSQEWVIQCLIVGERIGFKQHPKYKHDYVSH |
| 3434 | sp|E9PZ19|TUTLB\_MOUSE | MIWYVATLIASVISTRGLVAQGAHGLREEPEFVTARAGEGVVLRCDVIHPVTGQPPPYVVEWFKFGVPIPIFIKFGYYPPHVDPEYAGRASLHDKASLRLEQVRSEDQGWYECKVLMLDQQYDTFHNGSWVHLTINAPPTFTETPPQYIEAKEGGSITMTCTAFGNPKPIVTWLKEGTLLGASAKYQVSDGSLTVTSVSREDRGAYTCRAYSIQGEAVHTTHLLVQGPPFIVSPPENITVNISQDALLTCRAEAYPGNLTYTWYWQDENVYFQNDLKLRVRILIDGTLIIFRVKPEDAGKYTCVPSNSLGRSPSASAYLTVQYPARVLNMPPVIYVPVGIHGYIRCPVDAEPPATVVKWNKDGRPLQVEKNLGWTLMEDGSIRIEEATEEALGTYTCVPYNTLGTMGQSAPARLVLKDPPYFTVLPGWEYRQEAGRELLIPCAAAGDPFPVITWRKVGKPSRSKHNALPSGSLQFRALSKEDHGEWECVATNVVTSITASTHLTVIGTSPHAPGSVRVHVSMTTANVSWEPGYDGGYEQTFSVWMKRAQFGPHDWLSLSVPPGPSWLLVDSLEPETAYQFSVLAQNRLGTSAFSEVVTVNTLAFPVTTPEPLVLVTPPRCLTANRTQQGVLLSWLPPANHSFPIDRYIMEFRVGERWEMLDDAIPGTDGDFFAKDLSQDTWYEFRVLAVMQDLISEPSNIAGVSSTDIFPQPDLTDDGLARPVLAGIVATICFLAAAILFSTLAACFVNKQRKRKLKRKKDPPLSITHCRKSLESPLSSGKVSPESIRTLRAPSESSDDQGQPAAKRMLSPTREKELSLYKKTKRAISSRKYSVAKAEAEAEATTPIELISRGPDGRFVMGPSEMEPSVKGRRIEGFPFAEETDMYPEFRQSDEENEDPLVPTSVAALKPQLTPMSSSQDSYLPPPAYSPRFQPRGLEGPSGLGGRLQATGQARPPAPRPFQHGQYYGYLSSSSPGEVEPPPFYMPEVGSPLSSVMSSPPLHTEGPFGHPTIPEENGENASNSTLPLTQTPTGGRSPEPWGRPEFPFGGLETPAMMFPHQLHPCDVAESLQPKACLPRGLPPAPLQVPAAYPGMLSLEAPKGWVGKSPGRGPIPAPPATKWQERPMQPLVSQGQLRHTSQGMGIPVLPYPEPAEPGGHGGPSTFGLDTRWYEPQPRPRPSPRQARRAEPSLHQVVLQPSRLSPLTQSPLSSRTGSPELAARARPRPGLLQQAEMSEITLQPPAAVSFSRKSTPSSTGSPSQSSRSGSPSYRPTMGFTTLATGYPSPPPGPAPPAPGDTLDVFGQTPSPRRMGEEPLRPEPPTTLPTSG |
| 3435 | sp|Q9Z136|TSC1\_RAT | MAQLANIGELLSMLDSSTLGVRDDVTTIFKESLNSERGPMLVNTLVDYYLETNSQPVLHILTTLQEPHDKHLLDKMNEYVGKAATRLSILSLLGHVVRLQPSWKHKLSQAPLLPSLLKCLKMDTDVVVLTTGVLVLITMLPMIPQSGKQHLLDFFDIFGRLSSWCLKKPGHVTEVYLVHLHASVYALFHRLYGMYPCNFVSFLRSHYSMKENVETFEEVVKPMMEHVRIHPELVTGSKDHELDPRRWKTLETHDVVIECAKISLDPTEASYEDGDAVSHQLSACFPHRSADVTTSSYVDTQNSYGGATSTPSSTSRLMLFSTPGQLPQSLSSLSTRPLPEPLQASLWSPSAVCGMTTPPTSPGNVPADLSHPYSKAFGTTTGGKGTPSGTPATSPPPAPPCPQDDCAHGPASQASATPPRKEERADSSRPYLPRQQDVPSDRGLEDLPGSKGSVTLRNLPDFLGDLASEEDSIEKDKEEAAISKELSEITTAEADPVAPRGGFDSPFYRDSLSGSQRKTHSAASGTQGFSVNPEPLHSSLDKHGPDTPKQAFTPIDPPSGSADASPAGDRDRQTSLETSILTPSPCKIPPQRGVSFGSGQLPPYDHLFEVALPKTACHFVSKKTEELLKKAKGNPEEDCVPSTSPMEVLDRLLEQGAGAHSKELSRLSLPSKSVDWTHFGGSPPSDEIRTLRDQLLLLHNQLLYERFKRQQHALRNRRLLRKVIRAAALEEHNAAMKDQLKLQEKDIQMWKVSLQKEQARYSQLQQQRDTMVTQLHSQIRQLQHDREEFYNQSQELQTKLEDCRSMIAELRVELKKANSKVCHTELLLSQVSQKLSNSESVQQQMEFLNRQLLVLGEVNELYLEQLQSKHPDTTKEVEMMKTAYRKELEKNRSHLLQQNQRLDASQRRVLELESLLAKKDHLLLEQKKYLEDVKSQASGQLLAAESRYEAQRKITRVLELEILDLYGRLEKDGRLQKLEEDRAEAAEAAEERLDCCTDGCSDSLLGHNEEAAGHNGETRTSRPGGTRASCGGRVTGGSSSSSSELSTPEKPPNQRFSSRWEPTMGEPSSSIPTTVGSLPSSKSFLGMKTRELFRNKSESQCDEDGMTMSSFSETLKTELGKDSAGMENKTPPSLDAPHPSSPSSDSMGQLHIMDYNETHHEHS |
| 3436 | sp|Q6IQ55|TTBK2\_HUMAN | MSGGGEQLDILSVGILVKERWKVLRKIGGGGFGEIYDALDMLTRENVALKVESAQQPKQVLKMEVAVLKKLQGKDHVCRFIGCGRNDRFNYVVMQLQGRNLADLRRSQSRGTFTISTTLRLGRQILESIESIHSVGFLHRDIKPSNFAMGRFPSTCRKCYMLDFGLARQFTNSCGDVRPPRAVAGFRGTVRYASINAHRNREMGRHDDLWSLFYMLVEFVVGQLPWRKIKDKEQVGSIKERYDHRLMLKHLPPEFSIFLDHISSLDYFTKPDYQLLTSVFDNSIKTFGVIESDPFDWEKTGNDGSLTTTTTSTTPQLHTRLTPAAIGIANATPIPGDLLRENTDEVFPDEQLSDGENGIPVGVSPDKLPGSLGHPRPQEKDVWEEMDANKNKIKLGICKAATEEENSHGQANGLLNAPSLGSPIRVRSEITQPDRDIPLVRKLRSIHSFELEKRLTLEPKPDTDKFLETCLEKMQKDTSAGKESILPALLHKPCVPAVSRTDHIWHYDEEYLPDASKPASANTPEQADGGGSNGFIAVNLSSCKQEIDSKEWVIVDKEQDLQDFRTNEAVGHKTTGSPSDEEPEVLQVLEASPQDEKLQLGPWAENDHLKKETSGVVLALSAEGPPTAASEQYTDRLELQPGAASQFIAATPTSLMEAQAEGPLTAITIPRPSVASTQSTSGSFHCGQQPEKKDLQPMEPTVELYSPRENFSGLVVTEGEPPSGGSRTDLGLQIDHIGHDMLPNIRESNKSQDLGPKELPDHNRLVVREFENLPGETEEKSILLESDNEDEKLSRGQHCIEISSLPGDLVIVEKDHSATTEPLDVTKTQTFSVVPNQDKNNEIMKLLTVGTSEISSRDIDPHVEGQIGQVAEMQKNKISKDDDIMSEDLPGHQGDLSTFLHQEGKREKITPRNGELFHCVSENEHGAPTRKDMVRSSFVTRHSRIPVLAQEIDSTLESSSPVSAKEKLLQKKAYQPDLVKLLVEKRQFKSFLGDLSSASDKLLEEKLATVPAPFCEEEVLTPFSRLTVDSHLSRSAEDSFLSPIISQSRKSKIPRPVSWVNTDQVNSSTSSQFFPRPPPGKPPTRPGVEARLRRYKVLGSSNSDSDLFSRLAQILQNGSQKPRSTTQCKSPGSPHNPKTPPKSPVVPRRSPSASPRSSSLPRTSSSSPSRAGRPHHDQRSSSPHLGRSKSPPSHSGSSSSRRSCQQEHCKPSKNGLKGSGSLHHHSASTKTPQGKSKPASKLSR |
| 3437 | sp|Q9GZZ9|UBA5\_HUMAN | MAESVERLQQRVQELERELAQERSLQVPRSGDGGGGRVRIEKMSSEVVDSNPYSRLMALKRMGIVSDYEKIRTFAVAIVGVGGVGSVTAEMLTRCGIGKLLLFDYDKVELANMNRLFFQPHQAGLSKVQAAEHTLRNINPDVLFEVHNYNITTVENFQHFMDRISNGGLEEGKPVDLVLSCVDNFEARMTINTACNELGQTWMESGVSENAVSGHIQLIIPGESACFACAPPLVVAANIDEKTLKREGVCAASLPTTMGVVAGILVQNVLKFLLNFGTVSFYLGYNAMQDFFPTMSMKPNPQCDDRNCRKQQEEYKKKVAALPKQEVIQEEEEIIHEDNEWGIELVSEVSEEELKNFSGPVPDLPEGITVAYTIPKKQEDSVTELTVEDSGESLEDLMAKMKNM |
| 3438 | sp|P26368|U2AF2\_HUMAN | MSDFDEFERQLNENKQERDKENRHRKRSHSRSRSRDRKRRSRSRDRRNRDQRSASRDRRRRSKPLTRGAKEEHGGLIRSPRHEKKKKVRKYWDVPPPGFEHITPMQYKAMQAAGQIPATALLPTMTPDGLAVTPTPVPVVGSQMTRQARRLYVGNIPFGITEEAMMDFFNAQMRLGGLTQAPGNPVLAVQINQDKNFAFLEFRSVDETTQAMAFDGIIFQGQSLKIRRPHDYQPLPGMSENPSVYVPGVVSTVVPDSAHKLFIGGLPNYLNDDQVKELLTSFGPLKAFNLVKDSATGLSKGYAFCEYVDINVTDQAIAGLNGMQLGDKKLLVQRASVGAKNATLVSPPSTINQTPVTLQVPGLMSSQVQMGGHPTEVLCLMNMVLPEELLDDEEYEEIVEDVRDECSKYGLVKSIEIPRPVDGVEVPGCGKIFVEFTSVFDCQKAMQGLTGRKFANRVVVTKYCDPDSYHRRDFW |
| 3439 | sp|O48737|TRXM1\_ARATH | MAAYTCTSRPPISIRSEMRIASSPTGSFSTRQMFSVLPESSGLRTRVSLSSLSKNSRVSRLRRGVICEAQDTATGIPVVNDSTWDSLVLKADEPVFVDFWAPWCGPCKMIDPIVNELAQKYAGQFKFYKLNTDESPATPGQYGVRSIPTIMIFVNGEKKDTIIGAVSKDTLATSINKFL |
| 3440 | sp|Q8TE23|TS1R2\_HUMAN | MGPRAKTISSLFFLLWVLAEPAENSDFYLPGDYLLGGLFSLHANMKGIVHLNFLQVPMCKEYEVKVIGYNLMQAMRFAVEEINNDSSLLPGVLLGYEIVDVCYISNNVQPVLYFLAHEDNLLPIQEDYSNYISRVVAVIGPDNSESVMTVANFLSLFLLPQITYSAISDELRDKVRFPALLRTTPSADHHIEAMVQLMLHFRWNWIIVLVSSDTYGRDNGQLLGERVARRDICIAFQETLPTLQPNQNMTSEERQRLVTIVDKLQQSTARVVVVFSPDLTLYHFFNEVLRQNFTGAVWIASESWAIDPVLHNLTELRHLGTFLGITIQSVPIPGFSEFREWGPQAGPPPLSRTSQSYTCNQECDNCLNATLSFNTILRLSGERVVYSVYSAVYAVAHALHSLLGCDKSTCTKRVVYPWQLLEEIWKVNFTLLDHQIFFDPQGDVALHLEIVQWQWDRSQNPFQSVASYYPLQRQLKNIQDISWHTINNTIPMSMCSKRCQSGQKKKPVGIHVCCFECIDCLPGTFLNHTEDEYECQACPNNEWSYQSETSCFKRQLVFLEWHEAPTIAVALLAALGFLSTLAILVIFWRHFQTPIVRSAGGPMCFLMLTLLLVAYMVVPVYVGPPKVSTCLCRQALFPLCFTICISCIAVRSFQIVCAFKMASRFPRAYSYWVRYQGPYVSMAFITVLKMVIVVIGMLATGLSPTTRTDPDDPKITIVSCNPNYRNSLLFNTSLDLLLSVVGFSFAYMGKELPTNYNEAKFITLSMTFYFTSSVSLCTFMSAYSGVLVTIVDLLVTVLNLLAISLGYFGPKCYMILFYPERNTPAYFNSMIQGYTMRRD |
| 3441 | sp|Q9GT49|TRYS\_TRYCC | MPTLQSLAVPFGCVQGYAPGGIPAYSNKHESYFSGERSIDGNLFCGFKYQCVEFARRWLFERKSLVLPDVDWAVHIFNLKEVSDARTGKPVRCVAIRNGTAAKPVVDSLLIYPSDDYSPVGHVAAITEVGDKWVRIADQNHRFHKWDANYAAELPLIHEKGVWTILDPLEDEVLKPLGWVTFPDTPDRNPNEPLVLHESLHFKRGELPTLRRLTFTPTSREKDWLDLTNEAEAYFADVCGIDVKNPKLEKASYYQMNRELYLDCAKYGNQLHQMFLEATKFVLGSDELLRLFCIPEEYWPRLRHSWETQPHAITGRFDFAFDEDTQQFKCFEYNADSASTLLECGVIQQKWARSVGLDDGTTYSSGSLVSSRLQLAWEMAEVTGRVHFLIDNDDEEHYTALYVMQHASAAGLETKLCVLFDEFHFDENGVVVDSDGVAVTTVWKTWMWETAIADHQKARVQRGNDWRPTPKDEVRLCDILLGPNWDLRVFEPMWKIIPSNKAILPIIYNKHPDHPALLRASYELTVELQRTGYVRKPIVGRVGRNVTVTEASGDIAAKSDGDFSDRDMVYQELFRLPERDGYYAILGGWVIGDVYCGTGVREDKTIITGLESPFSALRVYQGAQRRPLTHEDLDKAEAAAVGGGLKT |
| 3442 | sp|Q47692|TSH\_ECOLX | MNRIYSLRYSAVARGFIAVSEFARKCVHKSVRRLCFPVLLLIPVLFSAGSLAGTVNNELGYQLFRDFAENKGMFRPGATNIAIYNKQGEFVGTLDKAAMPDFSAVDSEIGVATLINPQYIASVKHNGGYTNVSFGDGENRYNIVDRNNAPSLDFHAPRLDKLVTEVAPTAVTAQGAVAGAYLDKERYPVFYRLGSGTQYIKDSNGQLTQMGGAYSWLTGGTVGSLSSYQNGEMISTSSGLVFDYKLNGAMPIYGEAGDSGSPLFAFDTVQNKWVLVGVLTAGNGAGGRGNNWAVIPLDFIGQKFNEDNDAPVTFRTSEGGALEWSFNSSTGAGALTQGTTTYAMHGQQGNDLNAGKNLIFQGQNGQINLKDSVSQGAGSLTFRDNYTVTTSNGSTWTGAGIVVDNGVSVNWQVNGVKGDNLHKIGEGTLTVQGTGINEGGLKVGDGKVVLNQQADNKGQVQAFSSVNIASGRPTVVLTDERQVNPDTVSWGYRGGTLDVNGNSLTFHQLKAADYGAVLANNVDKRATITLDYALRADKVALNGWSESGKGTAGNLYKYNNPYTNTTDYFILKQSTYGYFPTDQSSNATWEFVGHSQGDAQKLVADRFNTAGYLFHGQLKGNLNVDNRLPEGVTGALVMDGAADISGTFTQENGRLTLQGHPVIHAYNTQSVADKLAASGDHSVLTQPTSFSQEDWENRSFTFDRLSLKNTDFGLGRNATLNTTIQADNSSVTLGDSRVFIDKNDGQGTAFTLEEGTSVATKDADKSVFNGTVNLDNQSVLNINDIFNGGIQANNSTVNISSDSAVLGNSTLTSTALNLNKGANALASQSFVSDGPVNISDAALSLNSRPDEVSHTLLPVYDYAGSWNLKGDDARLNVGPYSMLSGNINVQDKGTVTLGGEGELSPDLTLQNQMLYSLFNGYRNIWSGSLNAPDATVSMTDTQWSMNGNSTAGNMKLNRTIVGFNGGTSPFTTLTTDNLDAVQSAFVMRTDLNKADKLVINKSATGHDNSIWVNFLKKPSNKDTLDIPLVSAPEATADNLFRASTRVVGFSDVTPILSVRKEDGKKEWVLDGYQVARNDGQGKAAATFMHISYNNFITEVNNLNKRMGDLRDINGEAGTWVRLLNGSGSADGGFTDHYTLLQMGADRKHELGSMDLFTGVMATYTDTDASADLYSGKTKSWGGGFYASGLFRSGAYFDVIAKYIHNENKYDLNFAGAGKQNFRSHSLYAGAEVGYRYHLTDTTFVEPQAELVWGRLQGQTFNWNDSGMDVSMRRNSVNPLVGRTGVVSGKTFSGKDWSLTARAGLHYEFDLTDSADVHLKDAAGEHQINGRKDSRMLYGVGLNARFGDNTRLGLEVERSAFGKYNTDDAINANIRYSF |
| 3443 | sp|Q14679|TTLL4\_HUMAN | MASAGTQHYSIGLRQKNSFKQSGPSGTVPATPPEKPSEGRVWPQAHQQVKPIWKLEKKQVETLSAGLGPGLLGVPPQPAYFFCPSTLCSSGTTAVIAGHSSSCYLHSLPDLFNSTLLYRRSSYRQKPYQQLESFCLRSSPSEKSPFSLPQKSLPVSLTANKATSSMVFSMAQPMASSSTEPYLCLAAAGENPSGKSLASAISGKIPSPLSSSYKPMLNNNSFMWPNSTPVPLLQTTQGLKPVSPPKIQPVSWHHSGGTGDCAPQPVDHKVPKSIGTVPADASAHIALSTASSHDTSTTSVASSWYNRNNLAMRAEPLSCALDDSSDSQDPTKEIRFTEAVRKLTARGFEKMPRQGCQLEQSSFLNPSFQWNVLNRSRRWKPPAVNQQFPQEDAGSVRRVLPGASDTLGLDNTVFCTKRISIHLLASHASGLNHNPACESVIDSSAFGEGKAPGPPFPQTLGIANVATRLSSIQLGQSEKERPEEARELDSSDRDISSATDLQPDQAETEDTEEELVDGLEDCCSRDENEEEEGDSECSSLSAVSPSESVAMISRSCMEILTKPLSNHEKVVRPALIYSLFPNVPPTIYFGTRDERVEKLPWEQRKLLRWKMSTVTPNIVKQTIGRSHFKISKRNDDWLGCWGHHMKSPSFRSIREHQKLNHFPGSFQIGRKDRLWRNLSRMQSRFGKKEFSFFPQSFILPQDAKLLRKAWESSSRQKWIVKPPASARGIGIQVIHKWSQLPKRRPLLVQRYLHKPYLISGSKFDLRIYVYVTSYDPLRIYLFSDGLVRFASCKYSPSMKSLGNKFMHLTNYSVNKKNAEYQANADEMACQGHKWALKALWNYLSQKGVNSDAIWEKIKDVVVKTIISSEPYVTSLLKMYVRRPYSCHELFGFDIMLDENLKPWVLEVNISPSLHSSSPLDISIKGQMIRDLLNLAGFVLPNAEDIISSPSSCSSSTTSLPTSPGDKCRMAPEHVTAQKMKKAYYLTQKIPDQDFYASVLDVLTPDDVRILVEMEDEFSRRGQFERIFPSHISSRYLRFFEQPRYFNILTTQWEQKYHGNKLKGVDLLRSWCYKGFHMGVVSDSAPVWSLPTSLLTISKDDVILNAFSKSETSKLGKQSSCEVSLLLSEDGTTPKSKKTQAGLSPYPQKPSSSKDSEDTSKEPSLSTQTLPVIKCSGQTSRLSASSTFQSISDSLLAVSP |
| 3444 | sp|Q4PFA5|UBC2\_USTMA | MSTPSKKRLIRDFKRLSTDPPGGISGAPCADNLMIWNAVIFGPADTPFEDGTFKLVLTFDESYPNKPPTVKFLSKMFHPNVYANGELCLDILQNRWSPTYDVAAILTSIQSLLHDPNPNSPANAEAASLYRENMKEYVRRVKATVEASWLDDGEMPESIEEDDEAEAEAEAEATVDRSAPQTASA |
| 3445 | sp|P45748|TSAC\_ECOLI | MNNNLQRDAIAAAIDVLNEERVIAYPTEAVFGVGCDPDSETAVMRLLELKQRPVDKGLILIAANYEQLKPYIDDTMLTDVQRETIFSRWPGPVTFVFPAPATTPRWLTGRFDSLAVRVTDHPLVVALCQAYGKPLVSTSANLSGLPPCRTVDEVRAQFGAAFPVVPGETGGRLNPSEIRDALTGELFRQG |
| 3446 | sp|Q51945|TTUC\_PSEPU | MPAHSFRIAAIPGDGIGLEVLPEGIRVLEAAALKHGLALEFDTFEWASCDYYLQHGKMMPDDWAEQLKQYDAIYFGAVDWPDKVPDHISLWGSLLKFRREFDQYVNIRPVRLFPGVPCALANRKVGDIDFVVVRENTEGEYSSLGGIMFENTENEIVIQESIFTRRGVDRILKYAFDLAEKRERKHVTSATKSNGMAISMPYWDKRTEAMAAHYPHVSWDKQHIDILCARFVLQPERFDVVVVASNLFGDILSDLGPACAGTIGIAPSANLNPERNFPSLFEPVHGSAPDIFGKNIANPIAMIWSGALMLEFLGQGDERYQRAHDDMLNAIERVIADGSVTPDMGGTLSTQQVGAAISDTLARLD |
| 3447 | sp|Q9BX84|TRPM6\_HUMAN | MKEQPVLERLQSQKSWIKGVFDKRECSTIIPSSKNPHRCTPVCQVCQNLIRCYCGRLIGDHAGIDYSWTISAAKGKESEQWSVEKHTTKSPTDTFGTINFQDGEHTHHAKYIRTSYDTKLDHLLHLMLKEWKMELPKLVISVHGGIQNFTMPSKFKEIFSQGLVKAAETTGAWIITEGINTGVSKHVGDALKSHSSHSLRKIWTVGIPPWGVIENQRDLIGKDVVCLYQTLDNPLSKLTTLNSMHSHFILSDDGTVGKYGNEMKLRRNLEKYLSLQKIHCRSRQGVPVVGLVVEGGPNVILSVWETVKDKDPVVVCEGTGRAADLLAFTHKHLADEGMLRPQVKEEIICMIQNTFNFSLKQSKHLFQILMECMVHRDCITIFDADSEEQQDLDLAILTALLKGTNLSASEQLNLAMAWDRVDIAKKHILIYEQHWKPDALEQAMSDALVMDRVDFVKLLIEYGVNLHRFLTIPRLEELYNTKQGPTNTLLHHLVQDVKQHTLLSGYRITLIDIGLVVEYLIGRAYRSNYTRKHFRALYNNLYRKYKHQRHSSGNRNESAESTLHSQFIRTAQPYKFKEKSIVLHKSRKKSKEQNVSDDPESTGFLYPYNDLLVWAVLMKRQKMAMFFWQHGEEATVKAVIACILYRAMAHEAKESHMVDDASEELKNYSKQFGQLALDLLEKAFKQNERMAMTLLTYELRNWSNSTCLKLAVSGGLRPFVSHTCTQMLLTDMWMGRLKMRKNSWLKIIISIILPPTILTLEFKSKAEMSHVPQSQDFQFMWYYSDQNASSSKESASVKEYDLERGHDEKLDENQHFGLESGHQHLPWTRKVYEFYSAPIVKFWFYTMAYLAFLMLFTYTVLVEMQPQPSVQEWLVSIYIFTNAIEVVREICISEPGKFTQKVKVWISEYWNLTETVAIGLFSAGFVLRWGDPPFHTAGRLIYCIDIIFWFSRLLDFFAVNQHAGPYVTMIAKMTANMFYIVIIMAIVLLSFGVARKAILSPKEPPSWSLARDIVFEPYWMIYGEVYAGEIDVCSSQPSCPPGSFLTPFLQAVYLFVQYIIMVNLLIAFFNNVYLDMESISNNLWKYNRYRYIMTYHEKPWLPPPLILLSHVGLLLRRLCCHRAPHDQEEGDVGLKLYLSKEDLKKLHDFEEQCVEKYFHEKMEDVNCSCEERIRVTSERVTEMYFQLKEMNEKVSFIKDSLLSLDSQVGHLQDLSALTVDTLKVLSAVDTLQEDEALLAKRKHSTCKKLPHSWSNVICAEVLGSMEIAGEKKYQYYSMPSSLLRSLAGGRHPPRVQRGALLEITNSKREATNVRNDQERQETQSSIVVSGVSPNRQAHSKYGQFLLVPSNLKRVPFSAETVLPLSRPSVPDVLATEQDIQTEVLVHLTGQTPVVSDWASVDEPKEKHEPIAHLLDGQDKAEQVLPTLSCTPEPMTMSSPLSQAKIMQTGGGYVNWAFSEGDETGVFSIKKKWQTCLPSTCDSDSSRSEQHQKQAQDSSLSDNSTRSAQSSECSEVGPWLQPNTSFWINPLRRYRPFARSHSFRFHKEEKLMKICKIKNLSGSSEIGQGAWVKAKMLTKDRRLSKKKKNTQGLQVPIITVNACSQSDQLNPEPGENSISEEEYSKNWFTVSKFSHTGVEPYIHQKMKTKEIGQCAIQISDYLKQSQEDLSKNSLWNSRSTNLNRNSLLKSSIGVDKISASLKSPQEPHHHYSAIERNNLMRLSQTIPFTPVQLFAGEEITVYRLEESSPLNLDKSMSSWSQRGRAAMIQVLSREEMDGGLRKAMRVVSTWSEDDILKPGQVFIVKSFLPEVVRTWHKIFQESTVLHLCLREIQQQRAAQKLIYTFNQVKPQTIPYTPRFLEVFLIYCHSANQWLTIEKYMTGEFRKYNNNNGDEITPTNTLEELMLAFSHWTYEYTRGELLVLDLQGVGENLTDPSVIKPEVKQSRGMVFGPANLGEDAIRNFIAKHHCNSCCRKLKLPDLKRNDYSPERINSTFGLEIKIESAEEPPARETGRNSPEDDMQL |
| 3448 | sp|P07210|POLG\_HRV8A | MGAQVSRQNVGTHSTQNSVSNGSSLNYFNINYFKDAASSGASRLDFSQDPSKFTDPVKDVLEKGIPTLQSPTVEACGYSDRLIQITRGDSTITSQDTANAVVAYGVWPSYLTPDDATAIDKPTQPDTSSNRFYTLDSRSWTSASSGWWWKLPDALKNMGIFGENMFYHFLGRSGYTIHVQCNSSKFHQGLLIVAAIPEHQLASATSGNVSVGYNHTHPGEQGREVVPSRTSSDNKRPSDDSWLNFDGTLLGNLPIYPHQYINLRTNNSATLILPYVNAVPMDSMLRHNNWSLVIIPICPLQVQPGGTQSIPITVSISPMFSEFSGPRSKVVFSTTQGLPVMLTPGSGQFLTTDDTQSPSAFPYFHPTKEIFIPGQVRNLIEMCQVDTLIPVNNTQENVRSVNMYTVDLRTQVDLAKEVFSIPVDIASQPLATTLIGELASYYTHWTGSLRFSFMFCGSASSTLKLLIAYTPPGVGKPKSRREAMLGTHLVWDVGLQSTASLVVPWVSASHFRFTTPDTYSSAGYITCWYQTNFVVPDSTPDNAKMVCMVSACKDFCLRLARDTNLHTQEGVLTQNPVENYIDSVLNEVLVVPNIQPSTSVSSHAAPALDAAETGHTSSVQPEDMIETRYVITDQTRDETSIESFLGRSGCIAMIEFNTSSDKTEHDKIGKGFKTWKVSLQEMAQIRRKYELFTYTRFDSEITIVTAAAAQGNDSGHIVLQFMYVPPGAPVPEKRDDYTWQSGTNASVFWQEGQPYPRFTIPFMSIASAYYMFYDGYDGDSAASKYGSVVTNDMGTICVRIVTSNQKHDSNIVCRIYHKAKHIKAWCPRPPRAVAYQHTHSTNYIPSNGEATTQIKTRPDVFTVTNVGPSSMFVHVGNLIYRNLHLFNSDLDDSILVSYSSDLIIYRTNTEGNDVIPNCDCTECTYYCHHKDRYFPIRVTAHDWYEIQESEYYPKHIQYNLLIGEGPCEPGDCGGKLLCKHGVIGMITAGGEGHVAFIDLRKFQCAEEQGLSDYVEHLGQVFGVGFVDSIKQQVNFINPTSKIGSKVIKWLLRIVSAMIIMVRNSSDPQTVIATLTLLGCSGSPWRFLKEKLCAWLQLSYVHKQSDSWLKKFTEACNAARGLEWIGQKISKFIDWIKSMLPQAQLKIDYLTKLKQLNLLEKQIETIRLAPASVQEKIFIEINTLHDLSLKFLPLYASEARRIKNLYIKCSNVIKGGKRNEPVAVLIHGSPGTGKSLATSVLARMLTVETDIYSLPPDPKYFDGYDQQSVVIMDDIMQNPSGEDMTLFCQMVSSVPFIPPMADLPDKGKPFTSKFVLASTNHTLLTPPTVSSLPAMARRFYFDLDIQVKKEYLLDGKLDIAKSFRPCDVNIKIGNAKCCPFICGKAVEFKDRNSCTTLSLSQLYSHIKEEDRRRSSAAQAMEAIFQGIDLQSPPPPAIADLLRSVKTPEIIKYCQDNNWIVPAECSIERDLGIANMTIGIIANVVSIVGVIYIIYKLFCTLQGPYSGEPKPKSRAPERRVVTQGPEEEFGRSLLKHNCCVVTTDKGKFTGLGIYDQVMVLPTHSDPGSEILVDGVKVKVSDSYDLHNHEGVKLEITVVKLIRNEKFKDIRKYLPSREDDYPACNLALLANQDEPTIISVGDAVSYGNILLSGTNTARMIKYHYPTKAGYCGGVLYKVGSILGIHVGGNGRDGFSAMLLKSYFGETQGLITKELPVSVKNLPSVHVSSKTRLQPSVFHDVFPGTKEPAVLSSNDPRLETDFDSALFSKYKGNPACQVTPHMKIAVAHYAAQLSTLDINPQPLSLEESVFGIEGLEALDLNTSAGFPYVSLGIKKKDLIDKKTKDITKLRKAIDEYGIDLPMVTFLKDELRKKEKIKDGKTRVIEANSVNDTVLFRSVFGNLFSAFHKNPGIVTGSAVGCDPEVFWSTIPLMLDGECLMAFDYSNYDGSLHPVWFKCLSMLLEDIGFSSQLINQICNSKHIYKSKYYEVEGGMPSGCAGTSIFNTIINNIIIRTLVLDAYKNIDLDKLKILAYGDDVIFSYNFKLDMAVLAKEGEKYGLTITPADKSDVFQELTYKNVTFLKRGFRADERHSFLIHPTFPVAEIHDSIRWTKNPSCMQEHVLSLCHLMWHNGRHAYQEFIKGIRSVSAGRALYIPAYEVLEHEWYEKF |
| 3449 | sp|P09323|PTW3C\_ECOLI | MNILGFFQRLGRALQLPIAVLPVAALLLRFGQPDLLNVAFIAQAGGAIFDNLALIFAIGVASSWSKDSAGAAALAGAVGYFVLTKAMVTINPEINMGVLAGIITGLVGGAAYNRWSDIKLPDFLSFFGGKRFVPIATGFFCLVLAAIFGYVWPPVQHAIHAGGEWIVSAGALGSGIFGFINRLLIPTGLHQVLNTIAWFQIGEFTNAAGTVFHGDINRFYAGDGTAGMFMSGFFPIMMFGLPGAALAMYFAAPKERRPMVGGMLLSVAVTAFLTGVTEPLEFLFMFLAPLLYLLHALLTGISLFVATLLGIHAGFSFSAGAIDYALMYNLPAASQNVWMLLVMGVIFFAIYFVVFSLVIRMFNLKTPGREDKEDEIVTEEANSNTEEGLTQLATNYIAAVGGTDNLKAIDACITRLRLTVADSARVNDTMCKRLGASGVVKLNKQTIQVIVGAKAESIGDAMKKVVARGPVAAASAEATPATAAPVAKPQAVPNAVSIAELVSPITGDVVALDQVPDEAFASKAVGDGVAVKPTDKIVVSPAAGTIVKIFNTNHAFCLETEKGAEIVVHMGIDTVALEGKGFKRLVEEGAQVSAGQPILEMDLDYLNANARSMISPVVCSNIDDFSGLIIKAQGHIVAGQTPLYEIKK |
| 3450 | sp|Q99M80|PTPRT\_MOUSE | MGSLGGLALCLLRLLLLGLQRPPLPGAGAQSAAGGCSFDEHYSNCGYSVALGTNGFTWEQINTWEKPMLDPAVPTGSFMMVNSSGRASGQKAHLLLPTLKENDTHCIDFHYYFSSRDRSSPGALNVYVKVNGGPQGNPVWNVSGVVTEGWVKAELAISTFWPHFYQVIFESVSLKGHPGYIAVDEVRVLAHPCRKAPHFLRLQNVEVNVGQNATFQCIAGGKWSQHDKLWLQQWNGRDTALMVTRVVNHRRFSATVSVADTSQRSISKYRCVIRSDGGSGVSNYAELIVKEPPTPIAPPELLAVGATYLWIKPNANSIIGDGPIILKEVEYRTTTGTWAETHIVDSPNYKLWHLDPDVEYEIRVLLTRPGEGGTGPPGPPLTTRTKCADPVHGPQNVEIVDIRARQLTLQWEPFGYAVTRCHSYNLTVQYQYVFNQQQYEAEEVIQTSSHYTLRGLRPFMTIRLRLLLSNPEGRMESEELVVQTEEDVPGAVPLESIQGGPFEEKIYIQWKPPNETNGVITLYEINYKAVGSLDPSADLSSQRGKVFKLRNETHHLFVGLYPGTTYSFTIKASTAKGFGPPVTTRIATKISAPSMPEYDADTPLNETDTTITVMLKPAQSRGAPVSVYQLVVKEERLQKSRRAADIIECFSVPVSYRNASNLDSLHYFAAELKPSNLPVTQPFTVGDNKTYNGYWNPPLSPLKSYSIYFQALSKANGETKINCVRLATKGAPMGSAQVTPGTPLCLLTTASTQNSNTVEPEKQVDNTVKMAGVIAGLLMFIIILLGVMLTIKRRKLAKKQKETQSGAQREMGPVASTDKPTAKLGTNRNDEGFSSSSQDVNGFTDGSRGELSQPTLTIQTHPYRTCDPVEMSYPRDQFQPAIRVADLLQHITQMKRGQGYGFKEEYEALPEGQTASWDTAKEDENRNKNRYGNIISYDHSRVRLLVLDGDPHSDYINANYIDGYHRPRHYIATQGPMQETVKDFWRMIWQENSASIVMVTNLVEVGRVKCVRYWPDDTEVYGDIKVTLIETEPLAEYVIRTFTVQKKGYHEIRELRLFHFTSWPDHGVPCYATGLLGFVRQVKFLNPPEAGPIVVHCSAGAGRTGCFIAIDTMLDMAENEGVVDIFNCVRELRAQRVNLVQTEEQYVFVHDAILEACLCGNTAIPVCEFRSLYYNISRLDPQTNSSQIKDEFQTLNIVTPRVRPEDCSIGLLPRNHDKNRSMDVLPLDRCLPFLISVDGESSNYINAALMDSHKQPAAFVVTQHPLPNTVADFWRLVFDYNCSSVVMLNEMDTAQLCMQYWPEKTSGCYGPIQVEFVSADIDEDIIHRIFRICNMARPQDGYRIVQHLQYIGWPAYRDTPPSKRSLLKVVRRLEKWQEQYDGREGRTVVHCLNGGGRSGTFCAICSVCEMIQQQNIIDVFHIVKTLRNNKSNMVETLEQYKFVYEVALEYLSSF |
| 3451 | sp|P60483|PTEN\_CANLF | MTAIIKEIVSRNKRRYQEDGFDLDLTYIYPNIIAMGFPAERLEGVYRNNIDDVVRFLDSKHKNHYKIYNLCAERHYDTAKFNCRVAQYPFEDHNPPQLELIKPFCEDLDQWLSEDDNHVAAIHCKAGKGRTGVMICAYLLHRGKFLKAQEALDFYGEVRTRDKKGVTIPSQRRYVYYYSYLLKNHLDYRPVALLFHKMMFETIPMFSGGTCNPQFVVCQLKVKIYSSNSGPTRREDKFMYFEFPQPLPVCGDIKVEFFHKQNKMLKKDKMFHFWVNTFFIPGPEETSEKVENGSLCDQEIDSICSIERADNDKEYLVLTLTKNDLDKANKDKANRYFSPNFKVKLYFTKTVEEPSNPEASSSTSVTPDVSDNEPDHYRYSDTTDSDPENEPFDEDQHTQITKV |
| 3452 | sp|P35821|PTN1\_MOUSE | MEMEKEFEEIDKAGNWAAIYQDIRHEASDFPCKVAKLPKNKNRNRYRDVSPFDHSRIKLHQEDNDYINASLIKMEEAQRSYILTQGPLPNTCGHFWEMVWEQKSRGVVMLNRIMEKGSLKCAQYWPQQEEKEMVFDDTGLKLTLISEDVKSYYTVRQLELENLTTKETREILHFHYTTWPDFGVPESPASFLNFLFKVRESGSLSLEHGPIVVHCSAGIGRSGTFCLADTCLLLMDKRKDPSSVDIKKVLLEMRRFRMGLIQTADQLRFSYLAVIEGAKFIMGDSSVQDQWKELSREDLDLPPEHVPPPPRPPKRTLEPHNGKCKELFSSHQWVSEETCGDEDSLAREEGRAQSSAMHSVSSMSPDTEVRRRMVGGGLQSAQASVPTEEELSSTEEEHKAHWPSHWKPFLVNVCMATLLATGAYLCYRVCFH |
| 3453 | sp|A2A8L5|PTPRF\_MOUSE | MAPEPAPGRRMVPLVPALVMLGLMAGAHGDSKPVFVKVPEDQTGLSGGVASFVCQATGEPKPRITWMKKGKKVSSQRFEVIEFDDGAGSVLRIQPLRVQRDEAIYECTATNSLGEINTSAKLSVLEEDQLPSGFPTIDMGPQLKVVEKGRTATMLCAAGGNPDPEISWFKDFLPVDPAASNGRIKQLRSGALQIESSEESDQGKYECVATNSAGTRYSAPANLYVRVRRVAPRFSIPPSSQEVMPGGSVNLTCVAVGAPMPYVKWMMGAEELTKEDEMPVGRNVLELSNVMRSANYTCVAISSLGMIEATAQVTVKALPKPPIDLVVTETTATSVTLTWDSGNTEPVSFYGIQYRAAGTDGPFQEVDGVASTRYSIGGLSPFSEYAFRVLAVNSIGRGPPSEAVRARTGEQAPSSPPRRVQARMLSASTMLVQWEPPEEPNGLVRGYRVYYTPDSRRPLSAWHKHNTDAGLLTTVGSLLPGITYSLRVLAFTAVGDGPPSPTIQVKTQQGVPAQPADFQANAESDTRIQLSWLLPPQERIVKYELVYWAAEDEGQQHKVTFDPTSSYTLEDLKPDTLYHFQLAARSDLGVGVFTPTVEARTAQSTPSAPPQKVTCVSTGSTTVRVSWVPPPADSRNGIITQYSVAYEAVDGEDRKRHVVDGISREHSSWDLLGLEKWTEYRVWVRAHTDVGPGPESSPVLVRTDEDVPSGPPRKVEVEPLNSTAVHVSWKLPVPNKQHGQIRGYQVTYVRLENGEPRGQPIIQDVMLAEAQETTISGLTPETTYSITVAAYTTKGDGARSKPKVVTTTGAVPGRPTMMVSTTAMHTALLQWHPPKELPGELLGYRLQYRRADEARPNTIDFGKDDQHFTVTGLHKGATYVFRLAAKNRAGPGEEFEKEITTPEDVPSGFPQNLRVTGLTTSTTELTWDPPVLAERNGHITNYTVVYRDINSQLELQNVTNDTHLTLLGLKPDTTYDIKVRAHTSKGAGPLSPSIQSRTMPVEQVFAKNFRVAAAMKTSVLLSWEVPDSYKSAVPFKILYNGQSVEVDGHSMRKLIADLQPNTEYSFVLMNRGSSAGGLQHLVSIRTAPDLLPQKPLPASAFIEDGRFSLSMPQVQDPSLVRWFYIVVVPIDRVGGNLLAPRWNTPEELELDELLEAIEQGEEKQRRRRRQAERLKPYVAAQVDVLPDTFTLGDKKSYRGFYNRPLSPDLSYQCFVLASLKEPMDQKRYASSPYSDEIVVQVTPAQQQEEPEMLWVTGPVLAVILIILIVIAILLFKRKRTHSPSSKDEQSIGLKDSLLAHSSDPVEMRRLNYQTPGMRDHPPIPITDLADNIERLKANDGLKFSQEYESIDPGQQFTWENSNSEVNKPKNRYANVIAYDHSRVLLTSIDGVPGSDYINANYIDGYRKQNAYIATQGPLPETMGDFWRMVWEQRTATVVMMTRLEEKSRVKCDQYWPVRGTETYGLIQVTLVDTVELATYTMRTFALHKSGSSEKRELRQFQFMAWPDHGVPEYPTPILAFLRRVKACNPLDAGPMVVHCSAGVGRTGCFIVIDAMLERMKHEKTVDIYGHVTCMRSQRNYMVQTEDQYVFIHEALLEAAMCGHTEVLARNLYAHIQKLGQVPPGESVTAMELEFKLLANSKAHTSRFVSANLPCNKFKNRLVNIMPYELTRVCLQPIRGVEGSDYINASFLDGYRQQKAYIATQGPLAESTEDFWRMLWEHNSTIIVMLTKLREMGREKCHQYWPAERSARYQYFVVDPMAEYNMPQYILREFKVTDARDGQSRTIRQFQFTDWPEQGVPKTGEGFIDFIGQVHKTKEQFGQDGPITVHCSAGVGRTGVFITLSIVLERMRYEGVVDMFQTVKTLRTQRPAMVQTEDQYQLCYRAALEYLGSFDHYAT |
| 3454 | sp|P54830|PTN5\_MOUSE | MCCSERLLGLPQPVEMEAPDEAEGLPSKQKEMPPPPPPSPPSEPAQKLPPQGAGSHSLTVRSSLCLFAASQFLLACGVLWLSGHGHSWLQNTTDLISSSLTVLNHLGPVAWLGSGTWGIPSLLLVSLTVSLVIVTTLVWHLLKAPPEPPAPLPPEDRRQSVSRQPSFTYSEWMEEKVEDDFLDLDAVPETPVFDCVMDIKPETDPASLTVKSMGLQERRGSNVSLTLDMCTPGCNEEGFGYLVSPREESAHEYLLSASRVLRAEELHEKALDPFLLQAEFFEIPMNFVDPKEYDIPGLVRKNRYKTILPNPHSRVRLTSPDPEDPLSSYINANYIRGYSGEEKVYIATQGPIVSTVADFWRMVWQERTPIIVMITNIEEMNEKCTEYWPEEQVVHDGVEITVQKVIHTEDYRLRLISLRRGTEERSLKHYWFTSWPDQKTPDRAPPLLHLVREVEEAAQQEGPHCSPIIVHCSAGIGRTGCFIATSICCQQLRREGVVDILKTTCQLRQDRGGMIQTCEQYQFVHHAMSLYEKQLSLQSSE |
| 3455 | sp|P35822|PTPRK\_MOUSE | MDVAAAALPAFVALWLLYPWPLLGSALGQFSAGGCTFDDGPGACDYHQDLYDDFEWVHVSAQEPHYLPPEMPQGSYMVVDSSNHDPGEKARLQLPTMKENDTHCIDFSYLLYSQKGLNPGTLNILVRVNKGPLANPIWNVTGFTGRDWLRAELAVSTFWPNEYQVIFEAEVSGGRSGYIAIDDIQVLSYPCDKSPHFLRLGDVEVNAGQNATFQCIATGRDAVHNKLWLQRRNGEDIPVAQTKNINHRRFAASFRLQEVTKTDQDLYRCVTQSERGSGVSNFAQLIVREPPRPIAPPQLLGVGPTYLLIQLNANSIIGDGPIILKEVEYRMTSGSWTETHAVNAPTYKLWHLDPDTEYEIRVLLTRPGEGGTGLPGPPLITRTKCAEPMRTPKTLKIAEIQARRIAVDWESLGYNITRCHTFNVTICYHYFRGHNESRADCLDMDPKAPQHVVNHLPPYTNVSLKMILTNPEGRKESEETIIQTDEDVPGPVPVKSLQGTSFENKIFLNWKEPLEPNGIITQYEVSYSSIRSFDPAVPVAGPPQTVSNLWNSTHHVFMHLHPGTTYQFFIRASTVKGFGPATAINVTTNISAPSLPDYEGVDASLNETATTITVLLRPAQAKGAPISAYQIVVEQLHPHRTKREAGAMECYQVPVTYQNALSGGAPYYFAAELPPGNLPEPAPFTVGDNRTYKGFWNPPLAPRKGYNIYFQAMSSVEKETKTQCVRIATKAAATEEPEVIPDPAKQTDRVVKIAGISAGILVFILLLLVVIVIVKKSKLAKKRKDAMGNTRQEMTHMVNAMDRSYADQSTLHAEDPLSLTFMDQHNFSPRLPNDPLVPTAVLDENHSATAESSRLLDVPRYLCEGTESPYQTGQLHPAIRVADLLQHINLMKTSDSYGFKEEYESFFEGQSASWDVAKKDQNRAKNRYGNIIAYDHSRVILQPVEDDPSSDYINANYIDIWLYRDGYQRPSHYIATQGPVHETVYDFWRMVWQEQSACIVMVTNLVEVGRVKCYKYWPDDTEVYGDFKVTCVEMEPLAEYVVRTFTLERRGYNEIREVKQFHFTGWPDHGVPYHATGLLSFIRRVKLSNPPSAGPIVVHCSAGAGRTGCYIVIDIMLDMAEREGVVDIYNCVKALRSRRINMVQTEEQYIFIHDAILEACLCGETAIPVCEFKAAYFDMIRIDSQTNSSHLKDEFQTLNSVTPRLQAEDCSIACLPRNHDKNRFMDMLPPDRCLPFLITIDGESSNYINAALMDSYRQPAAFIVTQYPLPNTVKDFWRLVYDYGCTSIVMLNEVDLSQGCPQYWPEEGMLRYGPIQVECMSCSMDCDVINRIFRICNLTRPQEGYLMVQQFQYLGWASHREVPGSKRSFLKLILQVEKWQEECEEGEGRTIIHCLNGGGRSGMFCAIGIVVEMVKRQNVVDVFHAVKTLRNSKPNMVEAPEQYRFCYDVALEYLESS |
| 3456 | sp|P54637|PTP3\_DICDI | MISSSMSYRHSTNSVYTLNPHLNIPISTSTTIPPTSFYANNTPEMIQSQSENTNTNNINNSSSNINNNNNNTPDSMSMSTSLSSSPSVSFNHLDLNSINNKINNNTTTNNNNNNNNNNDDKFDTNALKLSNTMIIKNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNSNSNIEINVPSIQFDNEPAMEVDSVAPLNVPSNHTRTTLAMHNTKSLSTSNIGLLNILPNQQSSSSSSLSSTTTTTTTTSSSLLMPQSLFNNSTYNNHHNNNNSSNAGIVGGLNGSTSSLPTQAQVQLQQMQQQMQQHQQHQYKKANLSSLSTVVDNNLNNNPMNTSTSSPAQPNASPFSFSSSSLFSNSSLSNSGSGSASTTSTSTSSSNSMSSSPPPSLKTSFSQLDEDREKMRLEFEMIKKPEMASKKSHKHHQRHYSHNDLDNRKHDEEKFFSALQPNNYGKNRYHDVLPNESTRVRLTPIESGDGDYINANYINGEVPNSYRYYIACQAPLPSTIKDFWRMVWEERSSVIVCLTKLEENGKKKADVYYPETSQAQEYGSFWIHLHKKVMFKDIGVSSLHLYKKGEEFPREVVLLHYTQWPDCGAPPSSSHIRTLSVMVNTFKARGSAKNTNGPVIVHCSAGIGRSGTFISININMAKIERFGNDPSQMNISIKDSVLELRRQRRGMVQTLDQYIFIFKVINDVLTDMGIRSLSSPSKRRSCEMIKSTPMPRLDISIPPPLTFTPKDFQSSISPSTDMIASLSIITQMTQTLKFPPQQQQDNPFSKSSIKISPSPLNSTNISIPKNQQFQHPFQIQPQLDLNLQQQQQQSSQQLNDNPPLNMSSNSIKFPPVTSLSSCHLFEDSKNNDNNNKQQQQQQQQQQKNNQQCSGFSHFLNNNNNNDNNGSSGGGFNGSFLFNSNNSGSSSTNSECSNNNKNNNNNSNNNNNNNNNKNSDNNGTKDKDENDSCESPRVTPIKCF |
| 3457 | sp|A4FV54|RAB8A\_BOVIN | MAKTYDYLFKLLLIGDSGVGKTCVLFRFSEDAFNSTFISTIGIDFKIRTIELDGKRIKLQIWDTAGQERFRTITTAYYRGAMGIMLVYDITNEKSFDNIRNWIRNIEEHASADVEKMILGNKCDVNDKRQVSKERGEKLALDYGIKFMETSAKANINVENAFYTLARDIKAKMDKKLEGNSPQGSNQGVKITPDQQKRSSFFRCVLL |
| 3458 | sp|P34144|RAC1A\_DICDI | MQAIKCVVVGDGAVGKTCLLISYTTNAFPGEYIPTVFDNYSANVMVDGKPINLGLWDTAGQEDYDRLRPLSYPQTDVFLICFSIISPSSFENVNGKWHPEICHHAPNVPIILVGTKLDMREDKETQDRLKEKKLYPISYEQGLAKMKEINAVKYLECSALTQKGLKTVFDEAIRAVINPPLSKKKKSSGGCNIL |
| 3459 | sp|Q32LP2|RADI\_BOVIN | MPKPINVRVTTMDAELEFAIQPNTTGKQLFDQVVKTVGLREVWFFGLQYVDSKGYSTWLKLNKKVTQQDVKKENPLQFKFRAKFFPEDVSEELIQEITQRLFFLQVKEAILNDEIYCPPETAVLLASYAVQAKYGDYNKEIHKPGYLANDRLLPQRVLEQHKLTKEQWEERIQNWHEEHRGMLREDSMMEYLKIAQDLEMYGVNYFEIKNKKGTELWLGVDALGLNIYEHDDKLTPKIGFPWSEIRNISFNDKKFVIKPIDKKAPDFVFYAPRLRINKRILALCMGNHELYMRRRKPDTIEVQQMKAQAREEKHQKQLERAQLENEKKKREIAEKEKERIEREKEELMERLRQIEEQTMKAQKELEEQTRKALELDQERKRAKEEAERLEKERQAAEEAKSALAKQAADQMKNQEQLAAELAEFTAKIALLEEAKKKKEEEATEWQHKAFAAQEDLEKTKEELKTVMSAPPPPPPPPVIPPTENEHDEHDENNAEASAELSNDGVMNHRSEEERVTETQKNERVKKQLQALSSELAQARDETKKTQNDVLHAENVKAGRDKYKTLRQIRQGNTKQRIDEFEAM |
| 3460 | sp|O60894|RAMP1\_HUMAN | MARALCRLPRRGLWLLLAHHLFMTTACQEANYGALLRELCLTQFQVDMEAVGETLWCDWGRTIRSYRELADCTWHMAEKLGCFWPNAEVDRFFLAVHGRYFRSCPISGRAVRDPPGSILYPFIVVPITVTLLVTALVVWQSKRTEGIV |
| 3461 | sp|O75943|RAD17\_HUMAN | MSKTFLRPKVSSTKVTDWVDPSFDDFLECSGVSTITATSLGVNNSSHRRKNGPSTLESSRFPARKRGNLSSLEQIYGLENSKEYLSENEPWVDKYKPETQHELAVHKKKIEEVETWLKAQVLERQPKQGGSILLITGPPGCGKTTTLKILSKEHGIQVQEWINPVLPDFQKDDFKGMFNTESSFHMFPYQSQIAVFKEFLLRATKYNKLQMLGDDLRTDKKIILVEDLPNQFYRDSHTLHEVLRKYVRIGRCPLIFIISDSLSGDNNQRLLFPKEIQEECSISNISFNPVAPTIMMKFLNRIVTIEANKNGGKITVPDKTSLELLCQGCSGDIRSAINSLQFSSSKGENNLRPRKKGMSLKSDAVLSKSKRRKKPDRVFENQEVQAIGGKDVSLFLFRALGKILYCKRASLTELDSPRLPSHLSEYERDTLLVEPEEVVEMSHMPGDLFNLYLHQNYIDFFMEIDDIVRASEFLSFADILSGDWNTRSLLREYSTSIATRGVMHSNKARGYAHCQGGGSSFRPLHKPQWFLINKKYRENCLAAKALFPDFCLPALCLQTQLLPYLALLTIPMRNQAQISFIQDIGRLPLKRHFGRLKMEALTDREHGMIDPDSGDEAQLNGGHSAEESLGEPTQATVPETWSLPLSQNSASELPASQPQPFSAQGDMEENIIIEDYESDGT |
| 3462 | sp|P12753|RAD50\_YEAST | MSAIYKLSIQGIRSFDSNDRETIEFGKPLTLIVGMNGSGKTTIIECLKYATTGDLPPNSKGGVFIHDPKITGEKDIRAQVKLAFTSANGLNMIVTRNIQLLMKKTTTTFKTLEGQLVAINNSGDRSTLSTRSLELDAQVPLYLGVPKAILEYVIFCHQEDSLWPLSEPSNLKKKFDEIFQAMKFTKALDNLKSIKKDMSVDIKLLKQSVEHLKLDKDRSKAMKLNIHQLQTKIDQYNEEVSEIESQLNEITEKSDKLFKSNQDFQKILSKVENLKNTKLSISDQVKRLSNSIDILDLSKPDLQNLLANFSKVLMDKNNQLRDLETDISSLKDRQSSLQSLSNSLIRRQGELEAGKETYEKNRNHLSSLKEAFQHKFQGLSNIENSDMAQVNHEMSQFKAFISQDLTDTIDQFAKDIQLKETNLSDLIKSITVDSQNLEYNKKDRSKLIHDSEELAEKLKSFKSLSTQDSLNHELENLKTYKEKLQSWESENIIPKLNQKIEEKNNEMIILENQIEKFQDRIMKTNQQADLYAKLGLIKKSINTKLDELQKITEKLQNDSRIRQVFPLTQEFQRADLEMDFQKLFINMQKNIAINNKKMHELDRRYTNALYNLNTIEKDLQDNQKSKEKVIQLLSENLPEDCTIDEYNDVLEETELSYKTALENLKMHQTTLEFNRKALEIAERDSCCYLCSRKFENESFKSKLLQELKTKTDANFEKTLKDTVQNEKEYLHSLRLLEKHIITLNSINEKIDNSQKCLEKAKEETKTSKSKLDELEVDSTKLKDEKELAESEIRPLIEKFTYLEKELKDLENSSKTISEELSIYNTSEDGIQTVDELRDQQRKMNDSLRELRKTISDLQMEKDEKVRENSRMINLIKEKELTVSEIESSLTQKQNIDDSIRSKRENINDIDSRVKELEARIISLKNKKDEAQSVLDKVKNERDIQVRNKQKTVADINRLIDRFQTIYNEVVDFEAKGFDELQTTIKELELNKAQMLELKEQLDLKSNEVNEEKRKLADSNNEEKNLKQNLELIELKSQLQHIESEISRLDVQNAEAERDKYQEESLRLRTRFEKLSSENAGKLGEMKQLQNQIDSLTHQLRTDYKDIEKNYHKEWVELQTRSFVTDDIDVYSKALDSAIMKYHGLKMQDINRIIDELWKRTYSGTDIDTIKIRSDEVSSTVKGKSYNYRVVMYKQDVELDMRGRCSAGQKVLASIIIRLALSETFGANCGVIALDEPTTNLDEENIESLAKSLHNIINMRRHQKNFQLIVITHDEKFLGHMNAAAFTDHFFKVKRDDRQKSQIEWVDINRVTY |
| 3463 | sp|P17812|PYRG1\_HUMAN | MKYILVTGGVISGIGKGIIASSVGTILKSCGLHVTSIKIDPYINIDAGTFSPYEHGEVFVLDDGGEVDLDLGNYERFLDIRLTKDNNLTTGKIYQYVINKERKGDYLGKTVQVVPHITDAIQEWVMRQALIPVDEDGLEPQVCVIELGGTVGDIESMPFIEAFRQFQFKVKRENFCNIHVSLVPQPSSTGEQKTKPTQNSVRELRGLGLSPDLVVCRCSNPLDTSVKEKISMFCHVEPEQVICVHDVSSIYRVPLLLEEQGVVDYFLRRLDLPIERQPRKMLMKWKEMADRYDRLLETCSIALVGKYTKFSDSYASVIKALEHSALAINHKLEIKYIDSADLEPITSQEEPVRYHEAWQKLCSAHGVLVPGGFGVRGTEGKIQAIAWARNQKKPFLGVCLGMQLAVVEFSRNVLGWQDANSTEFDPTTSHPVVVDMPEHNPGQMGGTMRLGKRRTLFQTKNSVMRKLYGDADYLEERHRHRFEVNPVWKKCLEEQGLKFVGQDVEGERMEIVELEDHPFFVGVQYHPEFLSRPIKPSPPYFGLLLASVGRLSHYLQKGCRLSPRDTYSDRSGSSSPDSEITELKFPSINHD |
| 3464 | sp|P14737|RAD9\_YEAST | MSGQLVQWKSSPDRVTQSAIKEALHSPLADGDMNEMNVPVDPLENKVNSTNIIEGSPKANPNPVKFMNTSEIFQKSLGLLDESPRHDDELNIEVGDNDRPNANILHNERTPDLDRIANFFKSNRTPGKENLLTKYQSSDLEDTPLMLRKKMTFQTPTDPLEQKTFKKLKSDTGFCYYGEQNDGEENASLEVTEADATFVQMAERSADNYDCALEGIVTPKRYKDELSKSGGMQDERVQKTQIMISAESPNSISSYDKNKITGNGRTTRNVNKVFNNNEDNIGAIEEKNPVKKKSENYSSDDLRERNNQIIQSNESEEINELEKNLNVSGRENDVNNLDIDINSAVSGTPSRNNAEEEMYSSESVNNREPSKKWIFRYSKDKTENNSNRSTQIVNNPRTQEMPLDSISIDTQPLSKSFNTETNNELETQIIVSSLSQGISAQKGPVFHSTGQTEEIKTQIINSPEQNALNATFETPVTLSRINFEPILEVPETSSPSKNTMSKPSNSSPIPKEKDTFNIHEREVETNNVFSNDIQNSSNAATRDDIIIAGSSDFNEQKEITDRIYLQLSGKQISDSGSDETERMSPNELDTKKESTIMSEVELTQELPEVEEQQDLQTSPKKLVVEEETLMEIKKSKGNSLQLHDDNKECNSDKQDGTESLDVALIEHESKGQSSELQKNLMQLFPSESQEIIQNRRTIKRRQKDTIEIGEEEENRSTKTSPTKHLKRNSDLDAASIKREPSCSITIQTGETGSGKDSKEQSYVFPEGIRTADNSFLSKDDIIFGNAVWCQYTWNYKFYPGILLEVDTNQDGCWIYFETGRSLTKDEDIYYLDIRIGDAVTFDGNEYVVVGLECRSHDLNIIRCIRGYDTVHLKKKNASGLLGKRTLIKALSSISLDLSEWAKRAKIILEDNEKNKGDAYRYLRHPIRGRKSMTNVLSPKKHTDDEKDINTHTEVYNNEIESSSEKKEIVKKDSRDALAEHAGAPSLLFSSGEIRTGNVFDKCIFVLTSLFENREELRQTIESQGGTVIESGFSTLFNFTHPLAKSLVNKGNTDNIRELALKLAWKPHSLFADCRFACLITKRHLRSLKYLETLALGWPTLHWKFISACIEKKRIVPHLIYQYLLPSGESFRLSLDSPSKGGIIKSNNIFSFYTQFLRGSNLRDQICGVKKMLNDYIVIVWGRSELDSFVKFAFACLSAGRMLTIDLPNIDVDDTEPLLNALDSLVPRIGSELSNRKLKFLIYANENNGKSQMKLLERLRSQISLKFKKFNYIFHTESKEWLIQTIINEDTGFHDDITDNDIYNTISEVR |
| 3465 | sp|Q9H2M9|RBGPR\_HUMAN | MACSIVQFCYFQDLQAARDFLFPHLREEILSGALRRDPSKSTDWEDDGWGAWEENEPQEPEEEGNTCKTQKTSWLQDCVLSLSPTNDLMVIAREQKAVFLVPKWKYSDKGKEEMQFAVGWSGSLNVEEGECVTSALCIPLASQKRSSTGRPDWTCIVVGFTSGYVRFYTENGVLLLAQLLNEDPVLQLKCRTYEIPRHPGVTEQNEELSILYPAAIVTIDGFSLFQSLRACRNQVAKAAASGNENIQPPPLAYKKWGLQDIDTIIDHASVGIMTLSPFDQMKTASNIGGFNAAIKNSPPAMSQYITVGSNPFTGFFYALEGSTQPLLSHVALAVASKLTSALFNAASGWLGWKSKHEEEAVQKQKPKVEPATPLAVRFGLPDSRRHGESICLSPCNTLAAVTDDFGRVILLDVARGIAIRMWKGYRDAQIGWIQTVEDLHERVPEKADFSPFGNSQGPSRVAQFLVIYAPRRGILEVWSTQQGPRVGAFNVGKHCRLLYPGYKIMGLNNVTSQSWQPQTYQICLVDPVSGSVKTVNVPFHLALSDKKSERAKDMHLVKKLAALLKTKSPNLDLVETEIKELILDIKYPATKKQALESILASERLPFSCLRNITQTLMDTLKSQELESVDEGLLQFCANKLKLLQLYESVSQLNSLDFHLDTPFSDNDLALLLRLDEKELLKLQALLEKYKQENTRTNVRFSDDKDGVLPVKTFLEYLEYEKDVLNIKKISEEEYVALGSFFFWKCLHGESSTEDMCHTLESAGLSPQLLLSLLLSVWLSKEKDILDKPQSICCLHTMLSLLSKMKVAIDETWDSQSVSPWWQQMRTACIQSENNGAALLSAHVGHSVAAQISNNMTEKKFSQTVLGADSEALTDSWEALSLDTEYWKLLLKQLEDCLILQTLLHSKGNTQTSKVSSLQAEPLPRLSVKKLLEGGKGGIADSVAKWIFKQDFSPEVLKLANEERDAENPDEPKEGVNRSFLEVSEMEMDLGAIPDLLHLAYEQFPCSLELDVLHAHCCWEYVVQWNKDPEEARFFVRSIEHLKQIFNAHVQNGIALMMWNTFLVKRFSAATYLMDKVGKSPKDRLCRRDVGMSDTAMTSFLGSCLDLLQILMEADVSRDEIQVPVLDTEDAWLSVEGPISIVELALEQKHIHYPLVEHHSILCSILYAVMRFSLKTVKPLSLFDSKGKNAFFKDLTSIQLLPSGEMDPNFISVRQQFLLKVVSAAVQAQHSATKVKDPTEEATPTPFGKDQDWPALAVDLAHHLQVSEDVVRRHYVGELYNYGVDHLGEEAILQVHDKEVLASQLLVLTGQRLAHALLHTQTKEGMELLARLPPTLCTWLKAMDPQDLQNTEVPIATTAKLVNKVIELLPEKHGQYGLALHLIEAVEAISLPSL |
| 3466 | sp|Q9FNR1|RBG3\_ARATH | MAFLSKFGNILKQTTNKQLNAQVSLSSPSLFQAIRCMSSSKLFIGGMAYSMDEDSLREAFTKYGEVVDTRVILDRETGRSRGFGFVTFTSSEAASSAIQALDGRDLHGRVVKVNYANDRTSGGGFGGGGYGGGGGGYGGSGGYGGGAGGYGGSGGYGGGAGGYGGNSGGGYGGNAAGGYGGSGAGGYGGDATGHGGAGGGYGSSGGFGSSGNTYGEGSSASAGAVGDYNGSSGYGSANTYGSSNGGFAGDSQFGGSPVGNSSQFGGDNTQFTAGGQFGGEDQFGSMEKSETKMEDGPIGGEFEDVAKRA |
| 3467 | sp|Q8S8E3|PYL6\_ARATH | MPTSIQFQRSSTAAEAANATVRNYPHHHQKQVQKVSLTRGMADVPEHVELSHTHVVGPSQCFSVVVQDVEAPVSTVWSILSRFEHPQAYKHFVKSCHVVIGDGREVGSVREVRVVSGLPAAFSLERLEIMDDDRHVISFSVVGGDHRLMNYKSVTTVHESEEDSDGKKRTRVVESYVVDVPAGNDKEETCSFADTIVRCNLQSLAKLAENTSKFS |
| 3468 | sp|Q9FGM1|PYL8\_ARATH | MEANGIENLTNPNQEREFIRRHHKHELVDNQCSSTLVKHINAPVHIVWSLVRRFDQPQKYKPFISRCVVKGNMEIGTVREVDVKSGLPATRSTERLELLDDNEHILSIRIVGGDHRLKNYSSIISLHPETIEGRIGTLVIESFVVDVPEGNTKDETCYFVEALIKCNLKSLADISERLAVQDTTESRV |
| 3469 | sp|P12689|REV1\_YEAST | MGEHGGLVDLLDSDLEYSINRETPDKNNCLSQQSVNDSHLTAKTGGLNARSFLSTLSDDSLIEYVNQLSQTNKNNSNPTAGTLRFTTKNISCDELHADLGGGEDSPIARSVIEIQESDSNGDDVKKNTVYTREAYFHEKAHGQTLQDQILKDQYKDQISSQSSKIFKNCVIYINGYTKPGRLQLHEMIVLHGGKFLHYLSSKKTVTHIVASNLPLKKRIEFANYKVVSPDWIVDSVKEARLLPWQNYSLTSKLDEQQKKLDNCKTVNSIPLPSETSLHKGSKCVGSALLPVEQQSPVNLNNLEAKRIVACDDPDFLTSYFAHSRLHHLSAWKANLKDKFLNENIHKYTKITDKDTYIIFHIDFDCFFATVAYLCRSSSFSACDFKRDPIVVCHGTKNSDIASCNYVARSYGIKNGMWVSQAEKMLPNGIKLISLPYTFEQFQLKSEAFYSTLKRLNIFNLILPISIDEAVCVRIIPDNIHNTNTLNARLCEEIRQEIFQGTNGCTVSIGCSDSLVLARLALKMAKPNGYNITFKSNLSEEFWSSFKLDDLPGVGHSTLSRLESTFDSPHSLNDLRKRYTLDALKASVGSKLGMKIHLALQGQDDEESLKILYDPKEVLQRKSLSIDINWGIRFKNITQVDLFIERGCQYLLEKLNEINKTTSQITLKLMRRCKDAPIEPPKYMGMGRCDSFSRSSRLGIPTNEFGIIATEMKSLYRTLGCPPMELRGLALQFNKLVDVGPDNNQLKLRLPFKTIVTNRAFEALPEDVKNDINNEFEKRNYKRKESGLTSNSLSSKKKGFAISRLEVNDLPSTMEEQFMNELPTQIRAEVRHDLRIQKKIQQTKLGNLQEKIKRREESLQNEKNHFMGQNSIFQPIKFQNLTRFKKICQLVKQWVAETLGDGGPHEKDVKLFVKYLIKLCDSNRVHLVLHLSNLISRELNLCAFLNQDHSGFQTWERILLNDIIPLLNRNKHTYQTVRKLDMDFEV |
| 3470 | sp|P15307|REL\_MOUSE | MASSGYNPYVEIIEQPRQRGMRFRYKCEGRSAGSIPGERSTDNNRTYPSVQIMNYYGKGKIRITLVTKNDPYKPHPHDLVGKDCRDGYYEAEFGPERRPLFFQNLGIRCVKKKEVKGAIILRISAGINPFNVGEQQLLDIEDCDLNVVRCVFMFFLPDEDGNFTTALPPIVSNPIYDNRAPNTAELRICRVNKNCGSVRGGDEIFLLCDKVQKDDIEVRFVLNDWEARGVFSQADVHRQVAIVFKTPPYCKAILEPVTVKMQLRRPSDQEVSESMDFRYLPDEKDAYGNKSKKQKTTLIFQKLLQDCGHFTEKPRTAPLGSTGEGRFIKKESNLFSHGTVLPEMPRSSGVPGQAEPYYSSCGSISSGLPHHPPAIPSVAHQPTSWPPVTHPTSHPVSTNTLSTFSAGTLSSNSQGILPFLEGPGVSDLSASNSCLYNPDDLARMETPSMSPTDLYSISDVNMLSTRPLSVMAPSTDGMGDTDNPRLVSINLENPSCNARLGPRDLRQLHQMSPASLSAGTSSSSVFVSQSDAFDRSNFSCVDNGLMNEPGLSDDANNPTFVQSSHYSVNTLQSEQLSDPFTYGFFKI |
| 3471 | sp|Q8TC12|RDH11\_HUMAN | MVELMFPLLLLLLPFLLYMAAPQIRKMLSSGVCTSTVQLPGKVVVVTGANTGIGKETAKELAQRGARVYLACRDVEKGELVAKEIQTTTGNQQVLVRKLDLSDTKSIRAFAKGFLAEEKHLHVLINNAGVMMCPYSKTADGFEMHIGVNHLGHFLLTHLLLEKLKESAPSRIVNVSSLAHHLGRIHFHNLQGEKFYNAGLAYCHSKLANILFTQELARRLKGSGVTTYSVHPGTVQSELVRHSSFMRWMWWLFSFFIKTPQQGAQTSLHCALTEGLEILSGNHFSDCHVAWVSAQARNETIARRLWDVSCDLLGLPID |
| 3472 | sp|Q91392|RARGA\_DANRE | MFDCMEALGMGPRQLYDVTNRGACMLRKASPFYAGLDPFAWTGTASVRSVETQSTSSEEMVPSSPSPPPPPRVYKPCFVCQDKSSGYHYGVSSCEGCKGFFRRSIQKNMVYTCHRDKNCQINKVTRNRCQYCRLQKCFEVGMSKEAVRNDRNKKKKDVKDEVIPPESYELSGELEELVNKVSKAHQETFPSLCQLGKYTTNSSSDHRIQLDLGLWDKFSELSTKCIIKIVEFAKRLPGFTTLTIADQITLLKSACLDILMLRICTRYTPEQDTMTFSDGLTLNRTQMHNAGFGPLTDLVFAFAGQLLPLEMDDTETGLLSAICLICGDRMDLEEPERVDRLQEPLLEALKIYARRRRPNKPHMFPRMLMKITDLRGISTKGAERAITLKMEIPGPMPPLIREMLENPEAFEDQSESTEKKPEPEPPAPPPPALLTMKKEQEDEDDSWATENGSEPSPEEEDDDDEDGEEERGTDSDGEAWGGQEPNADVSRKSHGGRAQ |
| 3473 | sp|P04718|RBL2\_RHORU | MDQSSRYVNLALKEEDLIAGGEHVLCAYIMKPKAGYGYVATAAHFAAESSTGTNVEVCTTDDFTRGVDALVYEVDEARELTKIAYPVALFHRNITDGKAMIASFLTLTMGNNQGMGDVEYAKMHDFYVPEAYRALFDGPSVNISALWKVLGRPEVDGGLVVGTIIKPKLGLRPKPFAEACHAFWLGGDFIKNDEPQGNQPFAPLRDTIALVADAMRRAQDETGEAKLFSANITADDPFEIIARGEYVLETFGENASHVALLVDGYVAGAAAITTARRRFPDNFLHYHRAGHGAVTSPQSKRGYTAFVHCKMARLQGASGIHTGTMGFGKMEGESSDRAIAYMLTQDEAQGPFYRQSWGGMKACTPIISGGMNALRMPGFFENLGNANVILTAGGGAFGHIDGPVAGARSLRQAWQAWRDGVPVLDYAREHKELARAFESFPGDADQIYPGWRKALGVEDTRSALPA |
| 3474 | sp|B3M185|RAS1\_DROAN | MTEYKLVVVGAGGVGKSALTIQLIQNHFVDEYDPTIEDSYRKQVVIDGETCLLDILDTAGQEEYSAMRDQYMRTGEGFLLVFAVNSAKSFEDIGTYREQIKRVKDAEEVPMVLVGNKCDLASWNVNNEQAREVAKQYGIPYIETSAKTRMGVDDAFYTLVREIRKDKDNKGRRGRKMNKPNRRFKCKML |
| 3475 | sp|P0C512|RBL\_ORYSJ | MSPQTETKASVGFKAGVKDYKLTYYTPEYETKDTDILAAFRVTPQPGVPPEEAGAAVAAESSTGTWTTVWTDGLTSLDRYKGRCYHIEPVVGEDNQYIAYVAYPLDLFEEGSVTNMFTSIVGNVFGFKALRALRLEDLRIPPTYSKTFQGPPHGIQVERDKLNKYGRPLLGCTIKPKLGLSAKNYGRACYECLRGGLDFTKDDENVNSQPFMRWRDRFVFCAEAIYKSQAETGEIKGHYLNATAGTCEEMIKRAVFARELGVPIVMHDYLTGGFTANTSLAHYCRDNGLLLHIHRAMHAVIDRQKNHGMHFRVLAKALRMSGGDHIHAGTVVGKLEGEREMTLGFVDLLRDDFIEKDRARGIFFTQDWVSMPGVIPVASGGIHVWHMPALTEIFGDDSVLQFGGGTLGHPWGNAPGAAANRVALEACVQARNEGRDLAREGNEIIRSACKWSPELAAACEIWKAIKFEFEPVDKLDS |
| 3476 | sp|F4HT77|RBA1\_ARATH | MTSVSPRYRNVPVPKVFLSFRGEEIRHGFISHLADALERYGIMFIIDKDEQRGNDLTSLLLRIKESKVALVIFSSRFAESRFCMDEIVKMKECVDERKLLVIPIFYKVRARDVSGRTGDFGKKFWALAQKSRGCQIKEWMEALECISNKMGLSLGDGRSEADFIKEIVKEVERVLATFTSEDTEDHHCQTVKLLKGLVVGCLAHQELPLVLVFTQVYYYVKFSIFFIEEIFSSCFRKGFVLKPCKEDLQINSISIPGIDLENFKNMMQQAMYELNQMLLQSLGNIDPHRDVAFENQPQDQPDSPIALPEERRVALEATKFCGHAAYWWNQTKTTRARIGKVLIHFWEKLKKKFKDTYDRTVRI |
| 3477 | sp|Q5T5U3|RHG21\_HUMAN | MMATRRTGLSEGDGDKLKACEVSKNKDGKEQSETVSLSEDETFSWPGPKTVTLKRTSQGFGFTLRHFIVYPPESAIQFSYKDEENGNRGGKQRNRLEPMDTIFVKQVKEGGPAFEAGLCTGDRIIKVNGESVIGKTYSQVIALIQNSDTTLELSVMPKDEDILQVLQFTKDVTALAYSQDAYLKGNEAYSGNARNIPEPPPICYPWLPSAPSAMAQPVEISPPDSSLSKQQTSTPVLTQPGRAYRMEIQVPPSPTDVAKSNTAVCVCNESVRTVIVPSEKVVDLLSNRNNHTGPSHRTEEVRYGVSEQTSLKTVSRTTSPPLSIPTTHLIHQPAGSRSLEPSGILLKSGNYSGHSDGISSSRSQAVEAPSVSVNHYSPNSHQHIDWKNYKTYKEYIDNRRLHIGCRTIQERLDSLRAASQSTTDYNQVVPNRTTLQGRRRSTSHDRVPQSVQIRQRSVSQERLEDSVLMKYCPRSASQGALTSPSVSFSNHRTRSWDYIEGQDETLENVNSGTPIPDSNGEKKQTYKWSGFTEQDDRRGICERPRQQEIHKSFRGSNFTVAPSVVNSDNRRMSGRGVGSVSQFKKIPPDLKTLQSNRNFQTTCGMSLPRGISQDRSPLVKVRSNSLKAPSTHVTKPSFSQKSFVSIKDQRPVNHLHQNSLLNQQTWVRTDSAPDQQVETGKSPSLSGASAKPAPQSSENAGTSDLELPVSQRNQDLSLQEAETEQSDTLDNKEAVILREKPPSGRQTPQPLRHQSYILAVNDQETGSDTTCWLPNDARREVHIKRMEERKASSTSPPGDSLASIPFIDEPTSPSIDHDIAHIPASAVISASTSQVPSIATVPPCLTTSAPLIRRQLSHDHESVGPPSLDAQPNSKTERSKSYDEGLDDYREDAKLSFKHVSSLKGIKIADSQKSSEDSGSRKDSSSEVFSDAAKEGWLHFRPLVTDKGKRVGGSIRPWKQMYVVLRGHSLYLYKDKREQTTPSEEEQPISVNACLIDISYSETKRKNVFRLTTSDCECLFQAEDRDDMLAWIKTIQESSNLNEEDTGVTNRDLISRRIKEYNNLMSKAEQLPKTPRQSLSIRQTLLGAKSEPKTQSPHSPKEESERKLLSKDDTSPPKDKGTWRKGIPSIMRKTFEKKPTATGTFGVRLDDCPPAHTNRYIPLIVDICCKLVEERGLEYTGIYRVPGNNAAISSMQEELNKGMADIDIQDDKWRDLNVISSLLKSFFRKLPEPLFTNDKYADFIEANRKEDPLDRLKTLKRLIHDLPEHHYETLKFLSAHLKTVAENSEKNKMEPRNLAIVFGPTLVRTSEDNMTHMVTHMPDQYKIVETLIQHHDWFFTEEGAEEPLTTVQEESTVDSQPVPNIDHLLTNIGRTGVSPGDVSDSATSDSTKSKGSWGSGKDQYSRELLVSSIFAAASRKRKKPKEKAQPSSSEDELDNVFFKKENVEQCHNDTKEESKKESETLGRKQKIIIAKENSTRKDPSTTKDEKISLGKESTPSEEPSPPHNSKHNKSPTLSCRFAILKESPRSLLAQKSSHLEETGSDSGTLLSTSSQASLARFSMKKSTSPETKHSEFLANVSTITSDYSTTSSATYLTSLDSSRLSPEVQSVAESKGDEADDERSELISEGRPVETDSESEFPVFPTALTSERLFRGKLQEVTKSSRRNSEGSELSCTEGSLTSSLDSRRQLFSSHKLIECDTLSRKKSARFKSDSGSLGDAKNEKEAPSLTKVFDVMKKGKSTGSLLTPTRGESEKQEPTWKTKIADRLKLRPRAPADDMFGVGNHKVNAETAKRKSIRRRHTLGGHRDATEISVLNFWKVHEQSGERESELSAVNRLKPKCSAQDLSISDWLARERLRTSTSDLSRGEIGDPQTENPSTREIATTDTPLSLHCNTGSSSSTLASTNRPLLSIPPQSPDQINGESFQNVSKNASSAANAQPHKLSETPGSKAEFHPCL |
| 3478 | sp|Q96T37|RBM15\_HUMAN | MRTAGRDPVPRRSPRWRRAVPLCETSAGRRVTQLRGDDLRRPATMKGKERSPVKAKRSRGGEDSTSRGERSKKLGGSGGSNGSSSGKTDSGGGSRRSLHLDKSSSRGGSREYDTGGGSSSSRLHSYSSPSTKNSSGGGESRSSSRGGGGESRSSGAASSAPGGGDGAEYKTLKISELGSQLSDEAVEDGLFHEFKRFGDVSVKISHLSGSGSGDERVAFVNFRRPEDARAAKHARGRLVLYDRPLKIEAVYVSRRRSRSPLDKDTYPPSASVVGASVGGHRHPPGGGGGQRSLSPGGAALGYRDYRLQQLALGRLPPPPPPPLPRDLERERDYPFYERVRPAYSLEPRVGAGAGAAPFREVDEISPEDDQRANRTLFLGNLDITVTESDLRRAFDRFGVITEVDIKRPSRGQTSTYGFLKFENLDMSHRAKLAMSGKIIIRNPIKIGYGKATPTTRLWVGGLGPWVPLAALAREFDRFGTIRTIDYRKGDSWAYIQYESLDAAHAAWTHMRGFPLGGPDRRLRVDFADTEHRYQQQYLQPLPLTHYELVTDAFGHRAPDPLRGARDRTPPLLYRDRDRDLYPDSDWVPPPPPVRERSTRTAATSVPAYEPLDSLDRRRDGWSLDRDRGDRDLPSSRDQPRKRRLPEESGGRHLDRSPESDRPRKRHCAPSPDRSPELSSSRDRYNSDNDRSSRLLLERPSPIRDRRGSLEKSQGDKRDRKNSASAERDRKHRTTAPTEGKSPLKKEDRSDGSAPSTSTASSKLKSPSQKQDGGTAPVASASPKLCLAWQGMLLLKNSNFPSNMHLLQGDLQVASSLLVEGSTGGKVAQLKITQRLRLDQPKLDEVTRRIKVAGPNGYAILLAVPGSSDSRSSSSSAASDTATSTQRPLRNLVSYLKQKQAAGVISLPVGGNKDKENTGVLHAFPPCEFSQQFLDSPAKALAKSEEDYLVMIIVRGFGFQIGVRYENKKRENLALTLL |
| 3479 | sp|Q70E73|RAPH1\_HUMAN | MEQLSDEEIDHGAEEDSDKEDQDLDKMFGAWLGELDKLTQSLDSDKPMEPVKRSPLRQETNMANFSYRFSIYNLNEALNQGETVDLDALMADLCSIEQELSSIGSGNSKRQITETKATQKLPVSRHTLKHGTLKGLSSSSNRIAKPSHASYSLDDVTAQLEQASLSMDEAAQQSVLEDTKPLVTNQHRRTASAGTVSDAEVHSISNSSHSSITSAASSMDSLDIDKVTRPQELDLTHQGQPITEEEQAAKLKAEKIRVALEKIKEAQVKKLVIRVHMSDDSSKTMMVDERQTVRQVLDNLMDKSHCGYSLDWSLVETVSELQMERIFEDHENLVENLLNWTRDSQNKLIFMERIEKYALFKNPQNYLLGKKETAEMADRNKEVLLEECFCGSSVTVPEIEGVLWLKDDGKKSWKKRYFLLRASGIYYVPKGKAKVSRDLVCFLQLDHVNVYYGQDYRNKYKAPTDYCLVLKHPQIQKKSQYIKYLCCDDVRTLHQWVNGIRIAKYGKQLYMNYQEALKRTESAYDWTSLSSSSIKSGSSSSSIPESQSNHSNQSDSGVSDTQPAGHVRSQSIVSSVFSEAWKRGTQLEESSKARMESMNRPYTSLVPPLSPQPKIVTPYTASQPSPPLPPPPPPPPPPPPPPPPPPPPLPSQSAPSAGSAAPMFVKYSTITRLQNASQHSGALFKPPTPPVMQSQSVKPQILVPPNGVVPPPPPPPPPPTPGSAMAQLKPAPCAPSLPQFSAPPPPLKIHQVQHITQVAPPTPPPPPPIPAPLPPQAPPKPLVTIPAPTSTKTVAPVVTQAAPPTPTPPVPPAKKQPAFPASYIPPSPPTPPVPVPPPTLPKQQSFCAKPPPSPLSPVPSVVKQIASQFPPPPTPPAMESQPLKPVPANVAPQSPPAVKAKPKWQPSSIPVPSPDFPPPPPESSLVFPPPPPSPVPAPPPPPPPTASPTPDKSGSPGKKTSKTSSPGGKKPPPTPQRNSSIKSSSGAEHPEPKRPSVDSLVSKFTPPAESGSPSKETLPPPAAPPKPGKLNLSGVNLPGVLQQGCVSAKAPVLSGRGKDSVVEFPSPPSDSDFPPPPPETELPLPPIEIPAVFSGNTSPKVAVVNPQPQQWSKMSVKKAPPPTRPKRNDSTRLTQAEISEQPTMATVVPQVPTSPKSSLSVQPGFLADLNRTLQRKSITRHGSLSSRMSRAEPTATMDDMALPPPPPELLSDQQKAGYGGSHISGYATLRRGPPPAPPKRDQNTKLSRDW |
| 3480 | sp|O35730|RING1\_MOUSE | MTTPANAQNASKTWELSLYELHRTPQEAIMDGTEIAVSPRSLHSELMCPICLDMLKNTMTTKECLHRFCSDCIVTALRSGNKECPTCRKKLVSKRSLRPDPNFDALISKIYPSREEYEAHQDRVLIRLSRLHNQQALSSSIEEGLRMQAMHRAQRVRRPMPGSDQTATMSGGEGEPGEGEGDGEDVSSDSAPDSAPGPAPKRPRGAGAGASSVGTGGGAAGGACGGAGSEDSGDRGGTLGGGTLGPPSPPGAPSPPEPGGEIELVFRPHPLLVEKGEYCQTRYVKTTGNATVDHLSKYLALRIALERRQQQETTEPGGPGGGASDTGGPDGGGGERGVAGGGEGPEEPALPSLEGVSEKQYTIYIAPGGGAFTTLNGSLTLELVNEKFWKVSRPLELCYAPTKDPK |
| 3481 | sp|Q94547|RGA\_DROME | MANLNFQQPPRSIANAALAGRTTGGFGGSSLAGHVTPTSGMFQTDFANSYPGTANYGQAPQQQQQQQQQPQLSPNRNAQLSVGGPAISSGNRNANLFGQRQFVERRAMQGLGSGPMSNMGNFMQTGRGGYGTGGGGGGPLNNFHVFGGGGGSDTSTPALLDPTEFPSLTNARGQNDQTLPQSNPLQPPGSKPYGNFFTSFGMVKQPTSEQSEFTMSNEDFPALPGTQNSDGTTNAVGSVAGTGGSGGASTENHLDGTEKPMNSIVVSGSASGSSGSNVGVVGGNGLGAVGSGIGGLAVGGGGGAGSSGGGGVGGNAASGVVGGSHVGLVGSNSGIGGVNSVPNSNAMMGVGGGLGSGSGSSGSGAGGEHLNDNSSNDKLVKSGVQTSPDGKVTNIPATMVNNQFGMVGLLTFIRAAETDPNLVTLSLGTDLTGLGLNLNSQESLHTTFAGPFVAQPCRAQDVEFNVPPEYLINFAIRDKLTAPVLKKLQEDLLFFLFYTNIGDMMQLMAAAELHSREWRYHVEEKIWITRIPGIDQYEKNGTKERGTFYYFDAQSWKRLSKVFQIDPEKLDKCPNISAFMNGQSV |
| 3482 | sp|Q9H6W3|RIOX1\_HUMAN | MDGLQASAGPLRRGRPKRRRKPQPHSGSVLALPLRSRKIRKQLRSVVSRMAALRTQTLPSENSEESRVESTADDLGDALPGGAAVAAVPDAARREPYGHLGPAELLEASPAARSLQTPSARLVPASAPPARLVEVPAAPVRVVETSALLCTAQHLAAVQSSGAPATASGPQVDNTGGEPAWDSPLRRVLAELNRIPSSRRRAARLFEWLIAPMPPDHFYRRLWEREAVLVRRQDHTYYQGLFSTADLDSMLRNEEVQFGQHLDAARYINGRRETLNPPGRALPAAAWSLYQAGCSLRLLCPQAFSTTVWQFLAVLQEQFGSMAGSNVYLTPPNSQGFAPHYDDIEAFVLQLEGRKLWRVYRPRVPTEELALTSSPNFSQDDLGEPVLQTVLEPGDLLYFPRGFIHQAECQDGVHSLHLTLSTYQRNTWGDFLEAILPLAVQAAMEENVEFRRGLPRDFMDYMGAQHSDSKDPRRTAFMEKVRVLVARLGHFAPVDAVADQRAKDFIHDSLPPVLTDRERALSVYGLPIRWEAGEPVNVGAQLTTETEVHMLQDGIARLVGEGGHLFLYYTVENSRVYHLEEPKCLEIYPQQADAMELLLGSYPEFVRVGDLPCDSVEDQLSLATTLYDKGLLLTKMPLALN |
| 3483 | sp|P15927|RFA2\_HUMAN | MWNSGFESYGSSSYGGAGGYTQSPGGFGSPAPSQAEKKSRARAQHIVPCTISQLLSATLVDEVFRIGNVEISQVTIVGIIRHAEKAPTNIVYKIDDMTAAPMDVRQWVDTDDTSSENTVVPPETYVKVAGHLRSFQNKKSLVAFKIMPLEDMNEFTTHILEVINAHMVLSKANSQPSAGRAPISNPGMSEAGNFGGNSFMPANGLTVAQNQVLNLIKACPRPEGLNFQDLKNQLKHMSVSSIKQAVDFLSNEGHIYSTVDDDHFKSTDAE |
| 3484 | sp|F4IVV0|RIC1\_ARATH | MATTMKGLLKGLRYITQIFDEEKEQEMQIGFPTDVKHVAHIGSDGPTNTTPSWMNDFKTQEHEKGQVVSRGNSNKYNPQGTNQRGAGLKELLPSNTNEKPKQKTRRKPGGAASPNHNGSPPRKSSGNAASSDEPSKHSRHNRSAHGSTDSSNDQEPSVRRRRGGIPAPDTEVPNQIPDGSAPPRKATSRPRKLKGSSAGGEGSIKKSSKGKPENSVDTTCNDII |
| 3485 | sp|Q9XZ34|RIF1\_DROME | MDVDFGAQAGQSYRTVQLSAKEVLAAGRRQHYCNMIDLLASSCKSSGLIATSFTDDELVEFWLGDILPLMFDADRKIQDCAVAALAEALVALDVSVIHSAKCWPQIRSEFVDKYTIIIGEMRDAKNSNWHKIWTLLVQIMDEDLLRGCVYINKFLALVELGFRNPDNGVRSEAFLCWRVLIKIFAAYDELTSAKRLRLLLIPLRTSQSRSSHVSGIKLRVWWYLLSCLDHELPKSFDSAVEHFLAFMLGGGPRNLATGLAHNYQTARELALPCLVALWGVESSEPLQRLMRELRLETLVQPSPLMSVEVFQQHWKPLLAAAVSGLKLLTENDATEAEQLLLQLLVRNLCLAMFRLAVAPFNVACCSEIEKILQAEDNSGGRVVRALFNTIAADNLVMERVSGSDHLDVLEAYLKLVLKSKTEVPAAILQRSIACIFAVDRIEANNQNEFRMLGSFAELLMQANDEEDFEGFAFKLQVWRQVSQALSNYLRNNALEYRVAHNASLLDTWLLWPLQTLAAFAGRRASNSFDASFCDQWRQLVNAGQNAPGRKKFLTDLKATLTDLLKSKDEPLFAELFDAYVTSLIKFGLCKEAPLYKDVFGLLQTIFEQPSSQKTLEACLNTLRNLVVELRQNELMVVFDSLKPTLSSGIQCWNKMKCEGGFLEEWKRGIQEKFRKLPMKTMANQLKELFKADDLFVIIPSVWSLNPEKLTDRQKERFAEKSDIPALYNDMSQSQDSASIKPWTPKKVVIAKSKQGELALTGKDDNGEVIDITASEESEKEPVRVDVVTPIRKKPGRKSQAQKELEAAARAASLAEEPPKRQTRTRAAQKETEQVAQPQPAFEPQLRSPKKLPPSPVVQSTAAAVKQAKVAKPTPVVVIAQSEDLFPEVAAEPEPQPEPVKKPDPVPETTQLTPPDVPLEAVPSTQLPGSSGDPAASAGAVAAGEMSPKKSGTRIYNLSSPPDRKQTNNSSSPTLRPKPTGHLTGRGAQLINMIRNKKLDAASGSPYACMSTSRLVHQVTPARAQDRAEQVSTPTSELNELTGTDHTSTPIQAPPSKDLLVFSKRLPSPSASPSVSILKRKLRCESLDDVTLDSPALKRKRVSFHDPPVSVTKEYLRDAEETRSSLKPKRCLLMDKVAQTTEMRQALRRRGRLDSIIEIERFASEQTARTATTDKSLDKSTGEAPEEDAFTSLKWNDTGNAHNISISEEPVKAMEVESELETAGQDLAIMDPEAALDLAVAQLPLESVLQRYFDKSPLKSAGMLAKFLSAQMTANEKLKTNVLETLSENHSKDFLDHAVRENLSSVVCDRLNPTSVLEYVCAKSKISASCRNGLLAQVPEILKSGPRSDSERLAFVQQLMVQCSPGDDLLLDLIDLLMRTRRERNNSTSTHISKGVVSAVGSPDNVAETAADSSSNL |
| 3486 | sp|Q12362|RIB2\_YEAST | MEDSNNEASDDFNNLLNKEIESAKEVKLRKFANRNNNRNENSSKVKDASGFRLRVIQTDGHKTKKTDPDYEVTIDGPLRKIEPYFFTYKTFCKERWRDRKLVDVFVSEFRDREPSYYSKTIAEGKVYLNDEPANLDTIIRDGDLITHKVHRHEPPVTSKPIDIVFEDEDILVIDKPSSIPVHPTGRYRFNTITKMLERQLGYSVHPCNRLDKPTSGLMFLAKTPLGADRMGDQMKAREVTKEYVARVKGEFPIGIVEVDKPVRSVNPKVALNAVCEMSDENAKHAKTVFQRVSYDGQTSIVKCKPLTGRTHQIRVHLQYLGFPIANDPIYSNPDIWGPDLGRGGLQNYDDIVLKLDAIGKTNPAESWIHPHSEGEYLLGRQCEECEAEMYTDPGTNDLDLWLHAFRYESLERNSDTQKPLWSYRTKYPEWALEPHRRYMEMAVKEAGKCGPTKTAFSVGAVLVHGTQVLATGYSRELPGNTHAEQCALIKYSQLHPNCPTIVPMGTVLYTTMEPCSFRLSGNEPCCDRILATQGAIGTVFVGVMEPDTFVKNNTSLNKLESHGVNYIQIPGYEEECTIIAFKGHDNSDDKA |
| 3487 | sp|P38629|RFC3\_YEAST | MSTSTEKRSKENLPWVEKYRPETLDEVYGQNEVITTVRKFVDEGKLPHLLFYGPPGTGKTSTIVALAREIYGKNYSNMVLELNASDDRGIDVVRNQIKDFASTRQIFSKGFKLIILDEADAMTNAAQNALRRVIERYTKNTRFCVLANYAHKLTPALLSRCTRFRFQPLPQEAIERRIANVLVHEKLKLSPNAEKALIELSNGDMRRVLNVLQSCKATLDNPDEDEISDDVIYECCGAPRPSDLKAVLKSILEDDWGTAHYTLNKVRSAKGLALIDLIEGIVKILEDYELQNEETRVHLLTKLADIEYSISKGGNDQIQGSAVIGAIKASFENETVKANV |
| 3488 | sp|P35249|RFC4\_HUMAN | MQAFLKGTSISTKPPLTKDRGVAASAGSSGENKKAKPVPWVEKYRPKCVDEVAFQEEVVAVLKKSLEGADLPNLLFYGPPGTGKTSTILAAARELFGPELFRLRVLELNASDERGIQVVREKVKNFAQLTVSGSRSDGKPCPPFKIVILDEADSMTSAAQAALRRTMEKESKTTRFCLICNYVSRIIEPLTSRCSKFRFKPLSDKIQQQRLLDIAKKENVKISDEGIAYLVKVSEGDLRKAITFLQSATRLTGGKEITEKVITDIAGVIPAEKIDGVFAACQSGSFDKLEAVVKDLIDEGHAATQLVNQLHDVVVENNLSDKQKSIITEKLAEVDKCLADGADEHLQLISLCATVMQQLSQNC |
| 3489 | sp|P0AG30|RHO\_ECOLI | MNLTELKNTPVSELITLGENMGLENLARMRKQDIIFAILKQHAKSGEDIFGDGVLEILQDGFGFLRSADSSYLAGPDDIYVSPSQIRRFNLRTGDTISGKIRPPKEGERYFALLKVNEVNFDKPENARNKILFENLTPLHANSRLRMERGNGSTEDLTARVLDLASPIGRGQRGLIVAPPKAGKTMLLQNIAQSIAYNHPDCVLMVLLIDERPEEVTEMQRLVKGEVVASTFDEPASRHVQVAEMVIEKAKRLVEHKKDVIILLDSITRLARAYNTVVPASGKVLTGGVDANALHRPKRFFGAARNVEEGGSLTIIATALIDTGSKMDEVIYEEFKGTGNMELHLSRKIAEKRVFPAIDYNRSGTRKEELLTTQEELQKMWILRKIIHPMGEIDAMEFLINKLAMTKTNDDFFEMMKRS |
| 3490 | sp|P47924|RIBA1\_ARATH | MSSINLSSSSPSTISLSRSRLSQSSTTLLHGLHRVTLPSNHPLSTFSIKTNTGKVKAAVISREDDLLSFTNGNTPLSNGSLIDDRTEEPLEADSVSLGTLAADSAPAPANGFVAEDDDFELDLPTPGFSSIPEAIEDIRQGKLVVVVDDEDRENEGDLVMAAQLATPEAMAFIVRHGTGIVCVSMKEDDLERLHLPLMVNQKENEEKLSTAFTVTVDAKHGTTTGVSARDRATTILSLASRDSKPEDFNRPGHIFPLKYREGGVLKRAGHTEASVDLTVLAGLDPVGVLCEIVDDDGSMARLPKLREFAAENNLKVVSIADLIRYRRKRDKLVERASAARIPTMWGPFTAYCYRSILDGIEHIAMVKGEIGDGQDILVRVHSECLTGDIFGSARCDCGNQLALSMQQIEATGRGVLVYLRGHEGRGIGLGHKLRAYNLQDAGRDTVEANEELGLPVDSREYGIGAQIIRDLGVRTMKLMTNNPAKYVGLKGYGLAIVGRVPLLSLITKENKRYLETKRTKMGHMYGLKFKGDVVEKIESESES |
| 3491 | sp|P32169|RHAD\_ECOLI | MQNITQSWFVQGMIKATTDAWLKGWDERNGGNLTLRLDDADIAPYHDNFHQQPRYIPLSQPMPLLANTPFIVTGSGKFFRNVQLDPAANLGIVKVDSDGAGYHILWGLTNEAVPTSELPAHFLSHCERIKATNGKDRVIMHCHATNLIALTYVLENDTAVFTRQLWEGSTECLVVFPDGVGILPWMVPGTDEIGQATAQEMQKHSLVLWPFHGVFGSGPTLDETFGLIDTAEKSAQVLVKVYSMGGMKQTISREELIALGKRFGVTPLASALAL |
| 3492 | sp|Q9C8Y3|RGL1\_ARATH | MKREHNHRESSAGEGGSSSMTTVIKEEAAGVDELLVVLGYKVRSSDMADVAHKLEQLEMVLGDGISNLSDETVHYNPSDLSGWVESMLSDLDPTRIQEKPDSEYDLRAIPGSAVYPRDEHVTRRSKRTRIESELSSTRSVVVLDSQETGVRLVHALLACAEAVQQNNLKLADALVKHVGLLASSQAGAMRKVATYFAEGLARRIYRIYPRDDVALSSFSDTLQIHFYESCPYLKFAHFTANQAILEVFATAEKVHVIDLGLNHGLQWPALIQALALRPNGPPDFRLTGIGYSLTDIQEVGWKLGQLASTIGVNFEFKSIALNNLSDLKPEMLDIRPGLESVAVNSVFELHRLLAHPGSIDKFLSTIKSIRPDIMTVVEQEANHNGTVFLDRFTESLHYYSSLFDSLEGPPSQDRVMSELFLGRQILNLVACEGEDRVERHETLNQWRNRFGLGGFKPVSIGSNAYKQASMLLALYAGADGYNVEENEGCLLLGWQTRPLIATSAWRINRVE |
| 3493 | sp|Q9Y225|RNF24\_HUMAN | MSSDFPHYNFRMPNIGFQNLPLNIYIVVFGTAIFVFILSLLFCCYLIRLRHQAHKEFYAYKQVILKEKVKELNLHELCAVCLEDFKPRDELGICPCKHAFHRKCLIKWLEVRKVCPLCNMPVLQLAQLHSKQDRGPPQGPLPGAENIV |
| 3494 | sp|Q9NV58|RN19A\_HUMAN | MQEQEIGFISKYNEGLCVNTDPVSILTSILDMSLHRQMGSDRDLQSSASSVSLPSVKKAPKKRRISIGSLFRRKKDNKRKSRELNGGVDGIASIESIHSEMCTDKNSIFSTNTSSDNGLTSISKQIGDFIECPLCLLRHSKDRFPDIMTCHHRSCVDCLRQYLRIEISESRVNISCPECTERFNPHDIRLILSDDVLMEKYEEFMLRRWLVADPDCRWCPAPDCGYAVIAFGCASCPKLTCGREGCGTEFCYHCKQIWHPNQTCDAARQERAQSLRLRTIRSSSISYSQESGAAADDIKPCPRCAAYIIKMNDGSCNHMTCAVCGCEFCWLCMKEISDLHYLSPSGCTFWGKKPWSRKKKILWQLGTLVGAPVGIALIAGIAIPAMIIGIPVYVGRKIHNRYEGKDVSKHKRNLAIAGGVTLSVIVSPVVAAVTVGIGVPIMLAYVYGVVPISLCRSGGCGVSAGNGKGVRIEFDDENDINVGGTNTAVDTTSVAEARHNPSIGEGSVGGLTGSLSASGSHMDRIGAIRDNLSETASTMALAGASITGSLSGSAMVNCFNRLEVQADVQKERYSLSGESGTVSLGTVSDNASTKAMAGSILNSYIPLDKEGNSMEVQVDIESKPSKFRHNSGSSSVDDGSATRSHAGGSSSGLPEGKSSATKWSKEATAGKKSKSGKLRKKGNMKINETREDMDAQLLEQQSTNSSEFEAPSLSDSMPSVADSHSSHFSEFSCSDLESMKTSCSHGSSDYHTRFATVNILPEVENDRLENSPHQCSISVVTQTASCSEVSQLNHIAEEHGNNGIKPNVDLYFGDALKETNNNHSHQTMELKVAIQTEI |
| 3495 | sp|Q9CWS1|RN135\_MOUSE | MAAVCSGNAVPVWLSEDDLSCIICQGLLDQPTTLPCGHSFCLRCLHDLWVSKRGAVDGCPWACPICRKGPLTKPKLHKNPLLQDLVDKYLQAAREVEAGSEPEPAPAPRSAPQVTVQKSTTNVIQELTDMVRQLVDDVKSLQTQRPNLGSGQDNAQGTPPTDSSSEGEHSLDSPKLVTFSISQKKIQEILHNLEEIQEKLQGSVPGRAPPRERVQEMTSSLCLLPDQRRPAPRKASHLSLWAISPTFDLRTLSYNLEVSNNSRRVTVSRGDLHTYHWSPQRFSISQVFCSQALSSGQKYWEVDTRNCSHWAIGVASWGMKRDGMLGRTMDSWCIEWRGPGQFSAWAKMKKTDLQSDLPEVVGVWLDLESGELAFYAVADHERLLYECEVSSSSPLHPAFWLYGLSPGNYLEIKQLNT |
| 3496 | sp|P08922|ROS1\_HUMAN | MKNIYCLIPKLVNFATLGCLWISVVQCTVLNSCLKSCVTNLGQQLDLGTPHNLSEPCIQGCHFWNSVDQKNCALKCRESCEVGCSSAEGAYEEEVLENADLPTAPFASSIGSHNMTLRWKSANFSGVKYIIQWKYAQLLGSWTYTKTVSRPSYVVKPLHPFTEYIFRVVWIFTAQLQLYSPPSPSYRTHPHGVPETAPLIRNIESSSPDTVEVSWDPPQFPGGPILGYNLRLISKNQKLDAGTQRTSFQFYSTLPNTIYRFSIAAVNEVGEGPEAESSITTSSSAVQQEEQWLFLSRKTSLRKRSLKHLVDEAHCLRLDAIYHNITGISVDVHQQIVYFSEGTLIWAKKAANMSDVSDLRIFYRGSGLISSISIDWLYQRMYFIMDELVCVCDLENCSNIEEITPPSISAPQKIVADSYNGYVFYLLRDGIYRADLPVPSGRCAEAVRIVESCTLKDFAIKPQAKRIIYFNDTAQVFMSTFLDGSASHLILPRIPFADVKSFACENNDFLVTDGKVIFQQDALSFNEFIVGCDLSHIEEFGFGNLVIFGSSSQLHPLPGRPQELSVLFGSHQALVQWKPPALAIGANVILISDIIELFELGPSAWQNWTYEVKVSTQDPPEVTHIFLNISGTMLNVPELQSAMKYKVSVRASSPKRPGPWSEPSVGTTLVPASEPPFIMAVKEDGLWSKPLNSFGPGEFLSSDIGNVSDMDWYNNSLYYSDTKGDVFVWLLNGTDISENYHLPSIAGAGALAFEWLGHFLYWAGKTYVIQRQSVLTGHTDIVTHVKLLVNDMVVDSVGGYLYWTTLYSVESTRLNGESSLVLQTQPWFSGKKVIALTLDLSDGLLYWLVQDSQCIHLYTAVLRGQSTGDTTITEFAAWSTSEISQNALMYYSGRLFWINGFRIITTQEIGQKTSVSVLEPARFNQFTIIQTSLKPLPGNFSFTPKVIPDSVQESSFRIEGNASSFQILWNGPPAVDWGVVFYSVEFSAHSKFLASEQHSLPVFTVEGLEPYALFNLSVTPYTYWGKGPKTSLSLRAPETVPSAPENPRIFILPSGKCCNKNEVVVEFRWNKPKHENGVLTKFEIFYNISNQSITNKTCEDWIAVNVTPSVMSFQLEGMSPRCFIAFQVRAFTSKGPGPYADVVKSTTSEINPFPHLITLLGNKIVFLDMDQNQVVWTFSAERVISAVCYTADNEMGYYAEGDSLFLLHLHNRSSSELFQDSLVFDITVITIDWISRHLYFALKESQNGMQVFDVDLEHKVKYPREVKIHNRNSTIISFSVYPLLSRLYWTEVSNFGYQMFYYSIISHTLHRILQPTATNQQNKRNQCSCNVTEFELSGAMAIDTSNLEKPLIYFAKAQEIWAMDLEGCQCWRVITVPAMLAGKTLVSLTVDGDLIYWIITAKDSTQIYQAKKGNGAIVSQVKALRSRHILAYSSVMQPFPDKAFLSLASDTVEPTILNATNTSLTIRLPLAKTNLTWYGITSPTPTYLVYYAEVNDRKNSSDLKYRILEFQDSIALIEDLQPFSTYMIQIAVKNYYSDPLEHLPPGKEIWGKTKNGVPEAVQLINTTVRSDTSLIISWRESHKPNGPKESVRYQLAISHLALIPETPLRQSEFPNGRLTLLVTRLSGGNIYVLKVLACHSEEMWCTESHPVTVEMFNTPEKPYSLVPENTSLQFNWKAPLNVNLIRFWVELQKWKYNEFYHVKTSCSQGPAYVCNITNLQPYTSYNVRVVVVYKTGENSTSLPESFKTKAGVPNKPGIPKLLEGSKNSIQWEKAEDNGCRITYYILEIRKSTSNNLQNQNLRWKMTFNGSCSSVCTWKSKNLKGIFQFRVVAANNLGFGEYSGISENIILVGDDFWIPETSFILTIIVGIFLVVTIPLTFVWHRRLKNQKSAKEGVTVLINEDKELAELRGLAAGVGLANACYAIHTLPTQEEIENLPAFPREKLTLRLLLGSGAFGEVYEGTAVDILGVGSGEIKVAVKTLKKGSTDQEKIEFLKEAHLMSKFNHPNILKQLGVCLLNEPQYIILELMEGGDLLTYLRKARMATFYGPLLTLVDLVDLCVDISKGCVYLERMHFIHRDLAARNCLVSVKDYTSPRIVKIGDFGLARDIYKNDYYRKRGEGLLPVRWMAPESLMDGIFTTQSDVWSFGILIWEILTLGHQPYPAHSNLDVLNYVQTGGRLEPPRNCPDDLWNLMTQCWAQEPDQRPTFHRIQDQLQLFRNFFLNSIYKSRDEANNSGVINESFEGEDGDVICLNSDDIMPVALMETKNREGLNYMVLATECGQGEEKSEGPLGSQESESCGLRKEEKEPHADKDFCQEKQVAYCPSGKPEGLNYACLTHSGYGDGSD |
| 3497 | sp|P23396|RS3\_HUMAN | MAVQISKKRKFVADGIFKAELNEFLTRELAEDGYSGVEVRVTPTRTEIIILATRTQNVLGEKGRRIRELTAVVQKRFGFPEGSVELYAEKVATRGLCAIAQAESLRYKLLGGLAVRRACYGVLRFIMESGAKGCEVVVSGKLRGQRAKSMKFVDGLMIHSGDPVNYYVDTAVRHVLLRQGVLGIKVKIMLPWDPTGKIGPKKPLPDHVSIVEPKDEILPTTPISEQKGGKPEPPAMPQPVPTA |
| 3498 | sp|Q0WUG6|SBT61\_ARATH | MKVLGEASSYPYRSCIIVVFLSVSLFWLRPSTYHPQQQNLNPENVTRLESENETKTNYIIRFKQYKPAKDHRIYLESKVRSGGWGWIERINPATKYPTDFGVLWIEESGKEAVVGEIERLEMVKDVNVEFKYQRVLLGGSFPDGKKRPGKIFTSMSFEEGTESSPMADTSNTTLNWSRHLLAQKTQVTSMFGADHLWKKGYTGAKVKMAIFDTGIRADHPHFRKIKERTNWTNEDTLNDNLGHGTFVAGVIAGRNPECLGFASDTEIYAFRVFTDAQVSYTSWFLDAFNYAIATDMDVLNLSIGGPDYLDLPFVEKVWEITASNIIMVSAIGNDGPLYGTLNNPADQSDVIGVGGIDNDDHIASFSSRGMSTWELPHGYGRVKPDVVAYGRDIMGSKISTGCKSLSGTSVASPVVAGIVCLLVSVIPEARRKDLLNPASMKQALVEGAAKLSGPNMYEQGAGRVDLLESYEILKSYHPRASIFPSILDYNDCPYSWPFCRQPLYAGAMPIIFNTTILNGMGVIGYIESPPTWHPANEEGNLLSIHFKYPDVIWPWTGYLALHMQIKEEGAQFTGEIEGNVTVKVYSPPASGESGPRRSTCSLQLKLKVIPTPPRAKRILWDQFHSIKYPPGYIPRDSLDVRNDILDWHGDHLHTNFHIMYNMLRDAGYYIETLGSPLTCFDAQQYGTLLMVDLEDDYFPEEIEKLRDDVINTGLGLVVFAEWYNVDTMVKMRFFDDNTRSWWTPVTGGANIPALNNLLASFGIAFGDKILNGDFSIDGEQSRYASGTNIVRFPAGGFLHTFPLLDSSESGATQNLLLTEASKEDPAVLGLLEIGEGRVGVYGDSNCLDSSHMVTNCYWLLKKMLDFSSSNIKDPVLFSKFAKRYSPVIIDEKQLPSRRTDVNFSTYSSVIGKELICESDSRFEVWGTKGYNLHVRGRNRRLPGYHGIDLGRGLNFTVESKRPTRWRSAKEGGELSSSRSKSLGGLFNRDEIDMPFLVPTRWIVLAGVVASGVLVLLSIWRIRQKRGRRRRASGSNRLA |
| 3499 | sp|Q8R0C3|S26A8\_MOUSE | MQTERSLQSFSNRYTQIPFVYDVKRSVYNEENFQQEHRKKGPTSGNVDIDITTFKHHVQCGCSWHKFLRCMLTVFPFLEWICLYRFKDWLLGDLLAGLSVGLVQVPQGLILSLLTRQLIPPLNVTYAAFCSSVIYVIFGSCHQMSIGPFFLVSALMINVLKDRPFNNGHLILGTFVKDDFSVPTFYLSYNRSLSMVASTTFLTGIIQLSMGMLGMGFMATYLPEAATSAYLAAVALHIILAQMTCILGIMVSFHAGPISFIYNIINYCIALPKANSTSILLFITSVVALRINKCIRITFNRYPIEFPMELLLILGFSLLTSKITMATENSKMLMNMIPYSFVFPENPEFGILSRVVLQALSLSFVSSFLLISLGKKIANFHNYRTNSNQDLIAIGLCNLLSSFFKCCVFTGSLSRTTIQDKSGGRQQFASLVGAGVMLLLMVKMESFFHNLPNAVLAGIILSNVVPYLEAIYNLPSLWRQDQYECIIWMVTFSSAILLGLDVGLLISLAFTFFVITIRSHRTKILVLGQIPNTNIYRNVNDYREVILIPGVKIFQCCSSITFVNVYHLKQKVLKEVNMVKLPLKEEEIYTLFHESETSIAENKLCRCFCDCEELEPEIRVVYTERYENRQEQDSSINLIRCSYLGSGDSSQVTSEEQIPYTVSSTSQRNIVQSYEDTEKAWLPNSPPRNSPLPPPEASESLAQSRSRSIIMPYSDTSVQNNTHTIILDFSMVHYVDNRALVILRQMCNAFYNANILVLISGCHTSVVKSFEKNDFFDEGITKAQLFLSLHDAVLFALSRKFSEPSDLSMDETETVIQETYSESDKNGNLSNLRLKTGKAIIEGSQHASPGFTKNLKPGKDDLEFDLELDPMLSFEQSSGMDLNLDLDLDLDQSELDPGSELDSEIQAKPELELESELETDAQTEPETEEEPELEPEPEPEPETEPEPEPERERKTRTRSQSPWRNYFTAYRFGSSNSQSRAPPQTRPEKRKPHNYPNSP |
| 3500 | sp|Q8R2Z3|S26A7\_MOUSE | MTGAKRKKRSVLWGKMHTPHREDIKQWCKRRLPILEWAPQYNLKENLLPDTVSGIMLAVQQVAQGLSFAMLSSVHPVFGLYGSLFPAIIYAIFGMGRHVATGTFALTSLISANAVERLVPQSSRNLTTQSNSSVLGLSEFELQRIGVAAAVSFLGGVIQLVMFVLQLGSATFLLTEPVISAMTTGAATHVVTSQVKYLLGIKMPYISGPLGFFYIYAYVFENIKSVQLEALLFSLLSIIVLVLVKELNEQFKRKIKVVLPVDLVLIIAASFACYCTNMENTYGLEVVGHIPNGIPPPRAPPMNILSAVLTEAFGVALVGYVASLALAQGSAKKFKYSVDDNQEFLAHGLSNVIPSFLFCIPSAAAMGRTAGLYSTGAKTQVACLISCIFVLIVIYAIGPLLYWLPMCVLASIIVVGLKGMLIQFRDLKKYWNVDKIDWGIWISTYIFTICFAANVGLLFGVICTIAIVLGRFPRAKTLSITDMKEMELKVKTEMHDETSQQIKIISINNPLVFLNAKKFSADLMKIILKESDSNQPLDDVSKCEQNTLLSSLSNGNCNEEASQPCSSEKCSLVLNCSGLTFFDYTGVSTLVELYLDCKSRSVDVFLANCTASLIKAMTYYGDLDTEKPIFFDSVPAAISIIQSNKNLSKASDHSEV |
| 3501 | sp|P62306|RUXF\_HUMAN | MSLPLNPKPFLNGLTGKPVMVKLKWGMEYKGYLVSVDGYMNMQLANTEEYIDGALSGHLGEVLIRCNNVLYIRGVEEEEEDGEMRE |
| 3502 | sp|Q0WW17|RWA2\_ARATH | MASSSPVTPGLMSVVFGIVPVIVAWLYSEYLHYAKYSVSAKTRHSDVNLVEIAKDFVKEDDKALLIEDGGGLQSASPRAKGPTTHSPLIRFVLLDESFLVENRLTLRAIIEFAVLMVYFYICDRTDVFNSSKKSYNRDLFLFLYFLLIIVSAITSFTIHTDKSPFSGKAIMYLNRHQTEEWKGWMQVLFLMYHYFAAAEYYNAIRVFIACYVWMTGFGNFSYYYIRKDFSLARFAQMMWRLNFLVIFSCIVLNNSYMLYYICPMHTLFTLMVYGALGIMSKYNEMGSVIAAKFFACFVVVIIVWEIPGVFEWIWSPFTLLMGYNDPAKPQLPLLHEWHFRSGLDRYIWIIGMLYAYYHPTVESWMDKLEEAEMKFRVAIKTSVALIALTVGYFWYEYIYKMDKLTYNKYHPYTSWIPITVYICLRNITQSFRGYSLTLLAWLGKITLETYISQFHIWLRSGVPDGQPKLLLSLVPDYPLLNFMLTTSIYVAISYRLFELTNTLKTAFIPTKDDKRLVYNTISALIICTCLYFFSFILITIPQKLV |
| 3503 | sp|O65351|SBT17\_ARATH | MSSSFLSSTAFFLLLCLGFCHVSSSSSDQGTYIVHMAKSQMPSSFDLHSNWYDSSLRSISDSAELLYTYENAIHGFSTRLTQEEADSLMTQPGVISVLPEHRYELHTTRTPLFLGLDEHTADLFPEAGSYSDVVVGVLDTGVWPESKSYSDEGFGPIPSSWKGGCEAGTNFTASLCNRKLIGARFFARGYESTMGPIDESKESRSPRDDDGHGTHTSSTAAGSVVEGASLLGYASGTARGMAPRARVAVYKVCWLGGCFSSDILAAIDKAIADNVNVLSMSLGGGMSDYYRDGVAIGAFAAMERGILVSCSAGNAGPSSSSLSNVAPWITTVGAGTLDRDFPALAILGNGKNFTGVSLFKGEALPDKLLPFIYAGNASNATNGNLCMTGTLIPEKVKGKIVMCDRGINARVQKGDVVKAAGGVGMILANTAANGEELVADAHLLPATTVGEKAGDIIRHYVTTDPNPTASISILGTVVGVKPSPVVAAFSSRGPNSITPNILKPDLIAPGVNILAAWTGAAGPTGLASDSRRVEFNIISGTSMSCPHVSGLAALLKSVHPEWSPAAIRSALMTTAYKTYKDGKPLLDIATGKPSTPFDHGAGHVSPTTATNPGLIYDLTTEDYLGFLCALNYTSPQIRSVSRRNYTCDPSKSYSVADLNYPSFAVNVDGVGAYKYTRTVTSVGGAGTYSVKVTSETTGVKISVEPAVLNFKEANEKKSYTVTFTVDSSKPSGSNSFGSIEWSDGKHVVGSPVAISWT |
| 3504 | sp|F4JHH5|SC15B\_ARATH | MQSSKGRRKVGSTTAGAGIDSAEKLDELLISSAICNGEDLGPFVRKTFGTGKPETLLHHLKFFARSKESEIEEVCKAHYQDFIHAVDDLKSLLSDVESLKSALSDSNSKLQSVAAPLLSSLDSLVEAQTVSKNVDLAIGAVTHCVRVMELVSRANQHLQSGNFYMALKCVDSIESDFMEKTPSSTLKRMLENRIPAIRSYVERKVNKEFGDWLVEIRVVSRNLGQLAIGEASAARQREEELRIKQRQAEEQSRLSLRDCVYALNEEEDDEFGSGHEGSDGGSSGGGLLGFDLTPLYRAYHIHQTLSLGDTFKQYYYNNRDLQLTSDFQIAGFFIVEDRVLRTGGGLISKLEVETLWDTAVTKMCAVLEDQFSRMQTANHLLLIKDYVSLLGVSLRRYGYAVDSLLEVLSKHRDKYHELLLSDCRKQITEALSADKFEQMLMKKEYEYSMNVLSFQLQTSEIVPAFPFIAPFSTTVPDCCRIVRSFIEDSVSFMSHGGQLDFYDVVKKYLDRLLGEVLDEALLKLISTSVHGVSQAMQVAANMAVFERACDFFFRHAAHLSGVPLRMAERGRRHFPLTKSQNTAEDTLSGMLKKKIDGFMTLLENVNWTSDDIPQGGNEYMNEVLIYLETLVSTAQQILPAKVLKRVLRDVLAHISEKIVGTLCGDLVKRLSMAAIKGLDVDIQLLDSFTENLTPLLTDKEAREMKKAFVEIRQMINLLLSSHPENFVNPVIRERSYNALDYRKVATVSEKFRDPSDSIFGTFGTRGSRQNPKNKSLDALIKRLKDVS |
| 3505 | sp|Q9NQQ7|S35C2\_HUMAN | MGRWALDVAFLWKAVLTLGLVLLYYCFSIGITFYNKWLTKSFHFPLFMTMLHLAVIFLFSALSRALVQCSSHRARVVLSWADYLRRVAPTALATALDVGLSNWSFLYVTVSLYTMTKSSAVLFILIFSLIFKLEELRAALVLVVLLIAGGLFMFTYKSTQFNVEGFALVLGASFIGGIRWTLTQMLLQKAELGLQNPIDTMFHLQPLMFLGLFPLFAVFEGLHLSTSEKIFRFQDTGLLLRVLGSLFLGGILAFGLGFSEFLLVSRTSSLTLSIAGIFKEVCTLLLAAHLLGDQISLLNWLGFALCLSGISLHVALKALHSRGDGGPKALKGLGSSPDLELLLRSSQREEGDNEEEEYFVAQGQQ |
| 3506 | sp|Q8BGY9|SC5A7\_MOUSE | MSFHVEGLVAIILFYLLIFLVGIWAAWKTKNSGNPEERSEAIIVGGRDIGLLVGGFTMTATWVGGGYINGTAEAVYGPGCGLAWAQAPIGYSLSLILGGLFFAKPMRSKGYVTMLDPFQQIYGKRMGGLLFIPALMGEMFWAAAIFSALGATISVIIDVDVNISVIVSALIAILYTLVGGLYSVAYTDVVQLFCIFIGLWISVPFALSHPAVTDIGFTAVHAKYQSPWLGTIESVEVYTWLDNFLLLMLGGIPWQAYFQRVLSSSSATYAQVLSFLAAFGCLVMALPAICIGAIGASTDWNQTAYGYPDPKTKEEADMILPIVLQYLCPVYISFFGLGAVSAAVMSSADSSILSASSMFARNIYQLSFRQNASDKEIVWVMRITVLVFGASATAMALLTKTVYGLWYLSSDLVYIIIFPQLLCVLFIKGTNTYGAVAGYIFGLFLRITGGEPYLYLQPLIFYPGYYSDKNGIYNQRFPFKTLSMVTSFFTNICVSYLAKYLFESGTLPPKLDVFDAVVARHSEENMDKTILVRNENIKLNELAPVKPRQSLTLSSTFTNKEALLDVDSSPEGSGTEDNLQ |
| 3507 | sp|P82271|RTD1B\_MACMU | MRTFALLTAMLLLVALHAQAEARQARADEAAAQQQPGADDQGMAHSFTRPENAALPLSESARGLRCLCRRGVCQLL |
| 3508 | sp|Q9D856|S39A5\_MOUSE | MGPPVHHLLTGLCVGVALGWVGGSVPNLGPAEQEQNHYLAQLFGLYGENGTLTAGGLARLLHSLGLGRVQGLRLGHHEPPTGRAAPTSGDNFTHRLQEPELSVDIWAGMPLGPSGWGDQEESKAPDLHGSGPSSLDLFQRLLLLDHSLADHLNEDCLNGSQLLVNFGLSPVAPLTPRQFALLCPALLYQIDSRVCIKTPAPAPPGDVLSALLHSGLAVLFLSLPAPLSLLLLRLLGPRLLRPVLGFLGALAVGTLCGDALLHLLPHAQGGRHTGPSEQSEEDLGPGLSVLGGLFLLFMLENTLGLVRHRGLRPRCCRNKRDLGEPNPDPEDGSGMVLRPLQAASEPEVQGQRENRQSSPSLAPPGHQGHSHEHRGGSIAWMVLLGDCLHNLTDGLALGAAFSDGFSSGLSTTLAVFCHELPHELGDFAMLLQEGLSFRKLLLLSLVSGALGLGGAALGVGLSLGPVPLTPWVFGTTAGVFLYVALVDMLPTLLRPPEPLPVFHVLLQGLGLLLGGSLMFTIALLEEQLVPTVPDG |
| 3509 | sp|Q9Y6X3|SCC4\_HUMAN | MAAQAAAAAQAAAAQAAQAEAADSWYLALLGFAEHFRTSSPPKIRLCVHCLQAVFPFKPPQRIEARTHLQLGSVLYHHTKNSEQARSHLEKAWLISQQIPQFEDVKFEAASLLSELYCQENSVDAAKPLLRKAIQISQQTPYWHCRLLFQLAQLHTLEKDLVSACDLLGVGAEYARVVGSEYTRALFLLSKGMLLLMERKLQEVHPLLTLCGQIVENWQGNPIQKESLRVFFLVLQVTHYLDAGQVKSVKPCLKQLQQCIQTISTLHDDEILPSNPADLFHWLPKEHMCVLVYLVTVMHSMQAGYLEKAQKYTDKALMQLEKLKMLDCSPILSSFQVILLEHIIMCRLVTGHKATALQEISQVCQLCQQSPRLFSNHAAQLHTLLGLYCVSVNCMDNAEAQFTTALRLTNHQELWAFIVTNLASVYIREGNRHQEVLYSLLERINPDHSFPVSSHCLRAAAFYVRGLFSFFQGRYNEAKRFLRETLKMSNAEDLNRLTACSLVLLGHIFYVLGNHRESNNMVVPAMQLASKIPDMSVQLWSSALLRDLNKACGNAMDAHEAAQMHQNFSQQLLQDHIEACSLPEHNLITWTDGPPPVQFQAQNGPNTSLASLL |
| 3510 | sp|Q9Y230|RUVB2\_HUMAN | MATVTATTKVPEIRDVTRIERIGAHSHIRGLGLDDALEPRQASQGMVGQLAARRAAGVVLEMIREGKIAGRAVLIAGQPGTGKTAIAMGMAQALGPDTPFTAIAGSEIFSLEMSKTEALTQAFRRSIGVRIKEETEIIEGEVVEIQIDRPATGTGSKVGKLTLKTTEMETIYDLGTKMIESLTKDKVQAGDVITIDKATGKISKLGRSFTRARDYDAMGSQTKFVQCPDGELQKRKEVVHTVSLHEIDVINSRTQGFLALFSGDTGEIKSEVREQINAKVAEWREEGKAEIIPGVLFIDEVHMLDIESFSFLNRALESDMAPVLIMATNRGITRIRGTSYQSPHGIPIDLLDRLLIVSTTPYSEKDTKQILRIRCEEEDVEMSEDAYTVLTRIGLETSLRYAIQLITAASLVCRKRKGTEVQVDDIKRVYSLFLDESRSTQYMKEYQDAFLFNELKGETMDTS |
| 3511 | sp|P22814|RUNT\_DROME | MHLPAGPTMVANNTQVLAAAAAAAAAAAAAVAQGPGPQQSSNATTASAIAINPAQSLANTSTHSASSTGSSTPDLSTNNTSSSSNATTSPQNSAKMPSSMTDMFASLHEMLQEYHGELAQTGSPSILCSALPNHWRSNKSLPGAFKVIALDDVPDGTLVSIKCGNDENYCGELRNCTTTMKNQVAKFNDLRFVGRSGRGKSFTLTITIATYPVQIASYSKAIKVTVDGPREPRSKQSYGYPHPGAFNPFMLNPAWLDAAYMTYGYADYFRHQAAAQAAQVHHPALAKSSASSVSPNPNPSVATSSSSAVQPSEYPHPAAAVAAAAGQPAAMMPSPPGAAPATPYAIPQFPFNHVAAAAAAKAATPHAFHPYNFAAAAGLRARNAALHHQSEPVHVSPASSRPSSSSPTQQHVLLKLNTSIETSSIHEQSASDGDSDDEQIDVVKSEFDLDKSLDVAPLRMRCDLKAPSAMKPLYHESGPGAVANSRQPSPETTTKIKSAAVQQKTVWRPY |
| 3512 | sp|Q12158|SCC1\_YEAST | MVTENPQRLTVLRLATNKGPLAQIWLASNMSNIPRGSVIQTHIAESAKEIAKASGCDDESGDNEYITLRTSGELLQGIVRVYSKQATFLLTDIKDTLTKISMLFKTSQKMTSTVNRLNTVTRVHQLMLEDAVTEREVLVTPGLEFLDDTTIPVGLMAQENSMERKVQGAAPWDTSLEVGRRFSPDEDFEHNNLSSMNLDFDIEEGPITSKSWEEGTRQSSRNFDTHENYIQDDDFPLDDAGTIGWDLGITEKNDQNNDDDDNSVEQGRRLGESIMSEEPTDFGFDLDIEKEAPAGNIDTITDAMTESQPKQTGTRRNSKLLNTKSIQIDEETENSESIASSNTYKEERSNNLLTPQPTNFTTKRLWSEITESMSYLPDPILKNFLSYESLKKRKIHNGREGSIEEPELNVSLNLTDDVISNAGTNDNSFNELTDNMSDFVPIDAGLNEAPFPEENIIDAKTRNEQTTIQTEKVRPTPGEVASKAIVQMAKILRKELSEEKEVIFTDVLKSQANTEPENITKREASRGFFDILSLATEGCIGLSQTEAFGNIKIDAKPALFERFINA |
| 3513 | sp|Q9WTW7|S23A1\_RAT | MKAQEDPGSSKQHECPDSAGTSTRDQQAPLPAEPKFDMLYKIEDVPPWYLCILLGFQHYLTCFSGTIAVPFLLAEALCVGRDQHMISQLIGTIFTCVGITTLIQTTVGIRLPLFQASAFAFLVPAKAILALERWKCPPEEEIYGNWSMPLNTSHIWHPRIREVQGAIMVSSVVEVVIGLLGLPGALLSYIGPLTVTPTVSLIGLSVFQAAGDRAGSHWGISACSILLIVLFSQYLRNLTFLLPVYRWGKGLTLFRIQIFKMFPIVLAIMTVWLLCYVLTLTDVLPADPTVYGFQARTDARGDIMAISPWIRIPYPCQWGLPTVTVAAVLGMFSATLAGIIESIGDYYACARLAGAPPPPVHAINRGIFTEGVCCIIAGLLGTGNGSTSSSPNIGVLGITKVGSRRVVQYGAGIMLILGAIGKFTALFASLPDPILGGMFCTLFGMITAVGLSNLQFVDMNSSRNLFVLGFSMFFGLTLPNYLDSNPGAINTGVPEVDQILTVLLTTEMFVGGCLAFILDNTVPGSPEERGLIQWKAGAHANSETLASLKSYDFPFGMGMVKRTTFFRYIPICPVFRGFSKTENQPAVLEDAPDNTETGSVCTKV |
| 3514 | sp|P50247|SAHH\_MOUSE | MSDKLPYKVADIGLAAWGRKALDIAENEMPGLMRMREMYSASKPLKGARIAGCLHMTVETAVLIETLVALGAEVRWSSCNIFSTQDHAAAAIAKAGIPVFAWKGETDEEYLWCIEQTLHFKDGPLNMILDDGGDLTNLIHTKYPQLLSGIRGISEETTTGVHNLYKMMSNGILKVPAINVNDSVTKSKFDNLYGCRESLIDGIKRATDVMIAGKVAVVAGYGDVGKGCAQALRGFGARVIITEIDPINALQAAMEGYEVTTMDEACKEGNIFVTTTGCVDIILGRHFEQMKDDAIVCNIGHFDVEIDVKWLNENAVEKVNIKPQVDRYWLKNGRRIILLAEGRLVNLGCAMGHPSFVMSNSFTNQVMAQIELWTHPDKYPVGVHFLPKKLDEAVAEAHLGKLNVKLTKLTEKQAQYLGMPINGPFKPDHYRY |
| 3515 | sp|Q9VK34|SIRT1\_DROME | MMENYEEIRLGHIRSKDLGNQVPDTTQFYPPTKFDFGAEILASTSTEAEAEAEATATTTEPATSELAGKANGEIKTKTLAAREEQEIGANLEHKTKNPTKSMGEDEDDEEEEEEDDEEEEEDDEEGITGTSNEDEDSSSNCSSSVEPDWKLRWLQREFYTGRVPRQVIASIMPHFATGLAGDTDDSVLWDYLAHLLNEPKRRNKLASVNTFDDVISLVKKSQKIIVLTGAGVSVSCGIPDFRSTNGIYARLAHDFPDLPDPQAMFDINYFKRDPRPFYKFAREIYPGEFQPSPCHRFIKMLETKGKLLRNYTQNIDTLERVAGIQRVIECHGSFSTASCTKCRFKCNADALRADIFAQRIPVCPQCQPNKEQSVDASVAVTEEELRQLVENGIMKPDIVFFGEGLPDEYHTVMATDKDVCDLLIVIGSSLKVRPVAHIPSSIPATVPQILINREQLHHLKFDVELLGDSDVIINQICHRLSDNDDCWRQLCCDESVLTESKELMPPEHSNHHLHHHLLHHRHCSSESERQSQLDTDTQSIKSNSSADYILGSAGTCSDSGFESSTFSCGKRSTAAEAAAIERIKTDILVELNETTALSCDRLGLEGPQTTVESYRHLSIDSSKDSGIEQCDNEATPSYVRPSNLVQETKTVAPSLTPIPQQRGKRQTAAERLQPGTFYSHTNNYSYVFPGAQVFWDNDYSDDDDEEEERSHNRHSDLFGNVGHNYKDDDEDACDLNAVPLSPLLPPSLEAHIVTDIVNGSNEPLPNSSPGQKRTACIIEQQPTPAIETEIPPLKKRRPSEENKQQTQIERSEESPPPGQLAAV |
| 3516 | sp|P0DPB4|SCHI1\_MOUSE | MERSEQRVRAAWDCDPGKQADRDYREDGMDLGSDAGSSSSSRASSQSNSTKVTPCSECKSSSSPGGSLDLVSALEDYEEPFPVYQKKVIDEWAPEEDGEEEEEEDDRGYRDDGCPAREPGDVSARIGSSGSGSRSAATTMPSPMPNGNLHPHDPQDLRHNGNVVVAGRPNASRVPRRPIQKTQPPGSRRGGRNRASGGLCLQPPDGGTRVPEEPPAPPMDWEALEKHLAGLQFREQEVRNQGQARTNSTSAQKNERESIRQKLALGSFFDDGPGIYTSCSKSGKPSLSARLQSGMNLQICFVNDSGSDKDSDADDSKTETSLDTPLSPMSKQSSSYSDRDTTEEESESLDDMDFLTRQKKLQAEAKMALAMAKPMAKMQVEVEKQNRKKSPVADLLPHMPHISECLMKRSLKPTDLRDMTIGQLQVIVNDLHSQIESLNEELVQLLLIRDELHTEQDAMLVDIEDLTRHAESQQKHMAEKMPAK |
| 3517 | sp|Q8S3N1|SINA5\_ARATH | METDSIDSVIDDDEIHQKHQFSSTKSQGGATVVISPATSVYELLECPVCTNSMYPPIHQCHNGHTLCSTCKSRVHNRCPTCRQELGDIRCLALEKVAESLELPCKYYNLGCLGIFPYYSKLKHESQCNFRPYSCPYAGSECAAVGDITFLVAHLRDDHKVDMHTGCTFNHRYVKSNPREVENATWMLTVFQCFGQYFCLHFEAFQLGMAPVYMAFLRFMGDEDDARNYTYSLEVGGSGRKQTWEGTPRSVRDSHRKVRDSHDGLIIQRNMALFFSGGDKKELKLRVTGRIWKEQQNPDSGVCITSMCSS |
| 3518 | sp|Q9D394|RUFY3\_MOUSE | MSALTPPTDMPTPTTDKITQAAMETIYLCKFRVSMDGEWLCLRELDDISLTPDPEPTHEDPNYLMANERMNLMNMAKLSIKGLIESALNLGRTLDSDYAPLQQFFVVMEHCLKHGLKAKKTFLGQNKSFWGPLELVEKLVPEAAEITASVKDLPGLKTPVGRGRAWLRLALMQKKLSEYMKALINKKELLSEFYEVNALMMEEEGAIIAGLLVGLNVIDANFCMKGEDLDSQVGVIDFSMYLKDGNSSKGSEGDGQITAILDQKNYVEELNRHLNATVNNLQTKVDLLEKSNTKLTEELAVANNRIITLQEEMERVKEESSYLLESNRKGPKQDRTAEGQALSEARKHLKEETQLRLDVEKELELQISMRQEMELAMKMLEKDVCEKQDALVSLRQQLDDLRALKHELAFKLQSSDLGVKQKSELNSRLEEKTNQMAATIKQLEQSEKDLVKQAKTLNSAANKLIPKHH |
| 3519 | sp|Q42404|RU17\_ARATH | MGDSGDPFLRNPNAAVQARAKVQNRANVLQLKLMGQSHPTGLTNNLLKLFEPRPPLEYKPPPEKRKCPPYTGMAQFVSNFAEPGDPEYAPPKPEVELPSQKRERIHKLRLEKGVEKAAEDLKKYDPNNDPNATGDPYKTLFVSRLNYESSESKIKREFESYGPIKRVHLVTDQLTNKPKGYAFIEYMHTRDMKAAYKQADGQKIDGRRVLVDVERGRTVPNWRPRRLGGGLGTSRVGGGEEIVGEQQPQGRTSQSEEPSRPREEREKSREKGKERERSRELSHEQPRERSRDRPREDKHHRDRDQGGRDRDRDSRRDRDRTRDRGDRDRRDRDRGRDRTSRDHDRDRSRKKERDYEGGEYEHEGGGRSRERDAEYRGEPEETRGYYEDDQGDTDRYSHRYDKMEEDDFRYEREYKRSKRSESREYVR |
| 3520 | sp|P34164|SIP2\_YEAST | MGTTTSHPAQKKQTTKKCRAPIMSDVREKPSNAQGCEPQEMDAVSKKVTELSLNKCSDSQDAGQPSREGSITKKKSTLLLRDEDEPTMPKLSVMETAVDTDSGSSSTSDDEEGDIIAQTTEPKQDASPDDDRSGHSSPREEGQQQIRAKEASGGPSEIKSSLMVPVEIRWQQGGSKVYVTGSFTKWRKMIGLIPDSDNNGSFHVKLRLLPGTHRFRFIVDNELRVSDFLPTATDQMGNFVNYIEVRQPEKNPTNEKIRSKEADSMRPPTSDRSSIALQIGKDPDDFGDGYTRFHEDLSPRPPLEYTTDIPAVFTDPSVMERYYYTLDRQQSNTDTSWLTPPQLPPQLENVILNKYYATQDQFNENNSGALPIPNHVVLNHLVTSSIKHNTLCVASIVRYKQKYVTQILYTPIESS |
| 3521 | sp|P28661|SEPT4\_MOUSE | MDHSLGWQGNSVPEDGTEAGIKHFLEDSSDDAELSKFVKDFPGSEPYHSAESKTRVARPQILEPRPQSPDLCDDDVEFRGSLWPQPSDSQQYFSAPAPLSPSSRPRSPWGKLDPYDSSEDDKEYVGFATLPNQVHRKSVKKGFDFTLMVAGESGLGKSTLVNSLFLTDLYRDRKLLGAEERIMQTVEITKHAVDIEEKGVRLRLTIVDTPGFGDAVNNTECWKPVAEYIDQQFEQYFRDESGLNRKNIQDNRVHCCLYFISPFGHGLRPLDVEFMKALHQRVNIVPILAKADTLTPPEVDRKKCKIREEIEHFGIKIYQFPDCDSDEDEDFKLQDQALKESIPFAVIGSNTVVEARGRRVRGRLYPWGIVEVENPGHCDFVKLRTMLVRTHMQDLKDVTRETHYENYRAQCIQSMTRLVVKERNRNKLTRESGTDFPIPAVPPGTDPETEKLIREKDEELRRMQEMLHKIQRQMKETH |
| 3522 | sp|O08651|SERA\_RAT | MAFANLRKILISDSLDPCCRKILQDGGLQVVEKQNLSKEELIAELQDCEGLIVRSATKVTADVINAAEKLQVVGRAGTGVDNVDLEAATRKGVLVMNTPNGNSLSAAELTCGMLMCLARQIPQATASMKDGKWDRKKFMGTELNGKTLGILGLGRIGREVAARMQAFGMKTVGYDPIISPEVAASFGVQQLPLEEIWPLCDFITVHTPLLPSTTGLLNDSTFAQCKKGVRVVNCARGGIVDEGALLRALQSGQCAGAALDVFTEEPPRDRALVDHENVISCPHLGASTKEAQSRCGEEIAVQFVDMVKGKSLTGVVNAQALTSAFSPHTKPWIGLAEALGTLMHAWAGSPKGTIQVVTQGTSLKNAGTCLSPAVIVGLLREASKQADVNLVNAKLLVKEAGLNVTTSHSPGVPGEQGIGECLLTVALAGAPYQAVGLVQGTTPMLQMLNGAVFRPEVPLRRGQPLLLFRAQPSDPVMLPTMIGLLAEAGVQLLSYQTSKVSDGDTWHVMGLSSLLPSLDAWKQHVSEAFQFCF |
| 3523 | sp|P97321|SEPR\_MOUSE | MKTWLKTVFGVTTLAALALVVICIVLRPSRVYKPEGNTKRALTLKDILNGTFSYKTYFPNWISEQEYLHQSEDDNIVFYNIETRESYIILSNSTMKSVNATDYGLSPDRQFVYLESDYSKLWRYSYTATYYIYDLQNGEFVRGYELPRPIQYLCWSPVGSKLAYVYQNNIYLKQRPGDPPFQITYTGRENRIFNGIPDWVYEEEMLATKYALWWSPDGKFLAYVEFNDSDIPIIAYSYYGDGQYPRTINIPYPKAGAKNPVVRVFIVDTTYPHHVGPMEVPVPEMIASSDYYFSWLTWVSSERVCLQWLKRVQNVSVLSICDFREDWHAWECPKNQEHVEESRTGWAGGFFVSTPAFSQDATSYYKIFSDKDGYKHIHYIKDTVENAIQITSGKWEAIYIFRVTQDSLFYSSNEFEGYPGRRNIYRISIGNSPPSKKCVTCHLRKERCQYYTASFSYKAKYYALVCYGPGLPISTLHDGRTDQEIQVLEENKELENSLRNIQLPKVEIKKLKDGGLTFWYKMILPPQFDRSKKYPLLIQVYGGPCSQSVKSVFAVNWITYLASKEGIVIALVDGRGTAFQGDKFLHAVYRKLGVYEVEDQLTAVRKFIEMGFIDEERIAIWGWSYGGYVSSLALASGTGLFKCGIAVAPVSSWEYYASIYSERFMGLPTKDDNLEHYKNSTVMARAEYFRNVDYLLIHGTADDNVHFQNSAQIAKALVNAQVDFQAMWYSDQNHGISSGRSQNHLYTHMTHFLKQCFSLSD |
| 3524 | sp|P97797|SHPS1\_MOUSE | MEPAGPAPGRLGPLLLCLLLSASCFCTGATGKELKVTQPEKSVSVAAGDSTVLNCTLTSLLPVGPIRWYRGVGPSRLLIYSFAGEYVPRIRNVSDTTKRNNMDFSIRISNVTPADAGIYYCVKFQKGSSEPDTEIQSGGGTEVYVLAKPSPPEVSGPADRGIPDQKVNFTCKSHGFSPRNITLKWFKDGQELHPLETTVNPSGKNVSYNISSTVRVVLNSMDVNSKVICEVAHITLDRSPLRGIANLSNFIRVSPTVKVTQQSPTSMNQVNLTCRAERFYPEDLQLIWLENGNVSRNDTPKNLTKNTDGTYNYTSLFLVNSSAHREDVVFTCQVKHDQQPAITRNHTVLGFAHSSDQGSMQTFPDNNATHNWNVFIGVGVACALLVVLLMAALYLLRIKQKKAKGSTSSTRLHEPEKNAREITQVQSLIQDTNDINDITYADLNLPKEKKPAPRAPEPNNHTEYASIETGKVPRPEDTLTYADLDMVHLSRAQPAPKPEPSFSEYASVQVQRK |
| 3525 | sp|Q9H3S1|SEM4A\_HUMAN | MALPALGLDPWSLLGLFLFQLLQLLLPTTTAGGGGQGPMPRVRYYAGDERRALSFFHQKGLQDFDTLLLSGDGNTLYVGAREAILALDIQDPGVPRLKNMIPWPASDRKKSECAFKKKSNETQCFNFIRVLVSYNVTHLYTCGTFAFSPACTFIELQDSYLLPISEDKVMEGKGQSPFDPAHKHTAVLVDGMLYSGTMNNFLGSEPILMRTLGSQPVLKTDNFLRWLHHDASFVAAIPSTQVVYFFFEETASEFDFFERLHTSRVARVCKNDVGGEKLLQKKWTTFLKAQLLCTQPGQLPFNVIRHAVLLPADSPTAPHIYAVFTSQWQVGGTRSSAVCAFSLLDIERVFKGKYKELNKETSRWTTYRGPETNPRPGSCSVGPSSDKALTFMKDHFLMDEQVVGTPLLVKSGVEYTRLAVETAQGLDGHSHLVMYLGTTTGSLHKAVVSGDSSAHLVEEIQLFPDPEPVRNLQLAPTQGAVFVGFSGGVWRVPRANCSVYESCVDCVLARDPHCAWDPESRTCCLLSAPNLNSWKQDMERGNPEWACASGPMSRSLRPQSRPQIIKEVLAVPNSILELPCPHLSALASYYWSHGPAAVPEASSTVYNGSLLLIVQDGVGGLYQCWATENGFSYPVISYWVDSQDQTLALDPELAGIPREHVKVPLTRVSGGAALAAQQSYWPHFVTVTVLFALVLSGALIILVASPLRALRARGKVQGCETLRPGEKAPLSREQHLQSPKECRTSASDVDADNNCLGTEVA |
| 3526 | sp|P78330|SERB\_HUMAN | MVSHSELRKLFYSADAVCFDVDSTVIREEGIDELAKICGVEDAVSEMTRRAMGGAVPFKAALTERLALIQPSREQVQRLIAEQPPHLTPGIRELVSRLQERNVQVFLISGGFRSIVEHVASKLNIPATNVFANRLKFYFNGEYAGFDETQPTAESGGKGKVIKLLKEKFHFKKIIMIGDGATDMEACPPADAFIGFGGNVIRQQVKDNAKWYITDFVELLGELEE |
| 3527 | sp|Q9WVR3|SHIP2\_RAT | MASVCGAPSPGGALGSQAPAWYHRDLSRAAAEELLARAGRDGSFLVRDSESVAGAFALCVLYQKHVHTYRILPDGEDFLAVQTSQGVPVRRFQTLGELIGLYAQPNQGLVCALLLPVEGEREPDPPDDRDASDVEDEKPPLPPRSGSTSISVPAGPSSPLPAPETPTTPAAESTPNGLSTVSHEYLKGSYGLDLEAVRGGASNLPHLTRTLVTSCRRLHSEVDKVLSGLEILSKVFDQQSSPMVTRLLQQQSLPQTGEQELESLVLKLSVLKDFLSGIQKKALKALQDMSSTAPPAPLQPSIRKAKTIPVQAFEVKLDVTLGDLTKIGKSQKFTLSVDVEGGRLVLLRRQRDSQEDWTTFTHDRIRQLIKSQRVQNKLGVVFEKEKDRTQRKDFIFVSARKREAFCQLLQLMKNKHSKQDEPDMISVFIGTWNMGSVPPPKNVTSWFTSKGLGKALDEVTVTIPHDIYVFGTQENSVGDREWLDLLRGGLKELTDLDYRPIAMQSLWNIKVAVLVKPEHENRISHVSTSSVKTGIANTLGNKGAVGVSFMFNGTSFGFVNCHLTSGNEKTTRRNQNYLDILRLLSLGDRQLSAFDISLRFTHLFWFGDLNYRLDMDIQEILNYISRREFEPLLRVDQLNLEREKHKVFLRFSEEEISFPPTYRYERGSRDTYAWHKQKPTGVRTNVPSWCDRILWKSYPETHIICNSYGCTDDIVTSDHSPVFGTFEVGVTSQFISKKGLSKTSDQAYIEFESIEAIVKTASRTKFFIEFYSTCLEEYKKSFENDAQSSDNINFLKVQWSSRQLPTLKPILADIEYLQDQHLLLTVKSMDGYESYGECVVALKSMIGSTAQQFLTFLSHRGEETGNIRGSMKVRVPTERLGTRERLYEWISIDKDDTGAKSKAPSVLRGSQEHRSGSRKPTSTEASCPLSKLFEEPEKPPPTGRPPAPPRAVPREESLNPRLKSEGTPEQEGVAAPPPKNSFNNPAYYVLEGVPHQLLPLEPTSFARAPIPPTTKNKVAITVPAPQLGRHRTPRVGEGSSSDEDSGGTLPPPDFPPPPLPDSAIFLPPNLDPLSMPVVRGRSVGEARGPPPPKAHPRPPLPPGTSPASTFLEEVASADDRSCSVLQMAKTLSEVDYSPGPGRSALLPNPLELQLPRGPSDYGRPLSFPPPRIRESIQEDLAEEAPCPQGGRASGLGEAGMGAWLRAIGLERYEEGLVHNGWDDLEFLSDITEEDLEEAGVQDPAHKRLLLDTLQLSK |
| 3528 | sp|Q9H3T2|SEM6C\_HUMAN | MPRAPHFMPLLLLLLLLSLPHTQAAFPQDPLPLLISDLQGTSPLSWFRGLEDDAVAAELGLDFQRFLTLNRTLLVAARDHVFSFDLQAEEEGEGLVPNKYLTWRSQDVENCAVRGKLTDECYNYIRVLVPWDSQTLLACGTNSFSPVCRSYGITSLQQEGEELSGQARCPFDATQSNVAIFAEGSLYSATAADFQASDAVVYRSLGPQPPLRSAKYDSKWLREPHFVQALEHGDHVYFFFREVSVEDARLGRVQFSRVARVCKRDMGGSPRALDRHWTSFLKLRLNCSVPGDSTFYFDVLQALTGPVNLHGRSALFGVFTTQTNSIPGSAVCAFYLDEIERGFEGKFKEQRSLDGAWTPVSEDRVPSPRPGSCAGVGGAALFSSSRDLPDDVLTFIKAHPLLDPAVPPVTHQPLLTLTSRALLTQVAVDGMAGPHSNITVMFLGSNDGTVLKVLTPGGRSGGPEPILLEEIDAYSPARCSGKRTAQTARRIIGLELDTEGHRLFVAFSGCIVYLPLSRCARHGACQRSCLASQDPYCGWHSSRGCVDIRGSGGTDVDQAGNQESMEHGDCQDGATGSQSGPGDSAYGVRRDLPPASASRSVPIPLLLASVAAAFALGASVSGLLVSCACRRAHRRRGKDIETPGLPRPLSLRSLARLHGGGPEPPPPSKDGDAVQTPQLYTTFLPPPEGVPPPELACLPTPESTPELPVKHLRAAGDPWEWNQNRNNAKEGPGRSRGGHAAGGPAPRVLVRPPPPGCPGQAVEVTTLEELLRYLHGPQPPRKGAEPPAPLTSRALPPEPAPALLGGPSPRPHECASPLRLDVPPEGRCASAPARPALSAPAPRLGVGGGRRLPFSGHRAPPALLTRVPSGGPSRYSGGPGKHLLYLGRPEGYRGRALKRVDVEKPQLSLKPPLVGPSSRQAVPNGGRFNF |
| 3529 | sp|A1Z9P3|SHRM\_DROME | MKMRNHKENGNGSEMGESTKSLAKMEPENNNKISVVSVSKLLLKDSNGANSRSSNSNASFSSASVAGSVQDDLPHHNSSSSQLGQQHGSSLDQCGLTQAGLEEYNNRSSSYYDQTAFHHQKQPSYAQSEGYHSYVSSSDSTSATPFLDKLRQESDLLSRQSHHWSENDLSSVCSNSVAPSPIPLLARQSHSHSHSHAHSHSNSHGHSHGHAHSASSSSSSNNNSNGSATNNNNNNSSESTSSTETLKWLGSMSDISEASHATGYSAISESVSSSQRIVHSSRVPTPKRHHSESVLYLHNNEEQGDSSPTASNSSQMMISEEANGEESPPSVQPLRIQHRHSPSYPPVHTSMVLHHFQQQQQQQQDYQHPSRHHTNQSTLSTQSSLLELASPTEKPRSLMGQSHSMGDLQQKNPHQNPMLGRSAGQQHKSSISVTISSSEAVVTIAPQPPAGKPSKLQLSLGKSEALSCSTPNMGEQSPTNSIDSYRSNHRLFPVSTYTEPVHSNTSQYVQHPKPQFSSGLHKSAKLPVITPAGATVQPTWHSVAERINDFERSQLGEPPKFAYLEPTKTHRLSNPALKALQKNAVQSYVERQQQQQKEEQQLLRPHSQSYQACHVERKSLPNNLSPIMVGLPTGSNSASTRDCSSPTPPPPPRRSGSLLPNLLRRSSSASDYAEFRELHQAQGQVKGPSIRNISNAEKISFNDCGMPPPPPPPRGRLAVPTRRTSSATEYAPMRDKLLLQQAAALAHQQHHPQQHRHAQPPHVPPERPPKHPNLRVPSPELPPPPQSELDISYTFDEPLPPPPPPEVLQPRPPPSPNRRNCFAGASTRRTTYEAPPPTAIVAAKVPPLVPKKPTSLQHKHLANGGGGSRKRPHHATPQPILENVASPVAPPPPLLPRARSTAHDNVIASNLESNQQKRSNSKASYLPRQSLEKLNNTDPDHGIYKLTLTSNEDLVAHTKPSYGVTGKLPNNLPDVLPLGVKLHQQPKLQPGSPNGDANVTLRYGSNNNLTGNSPTVAPPPYYGGGQRYSTPVLGQGYGKSSKPVTPQQYTRSQSYDVKHTSAVTMPTMSQSHVDLKQAAHDLETTLEEVLPTATPTPTPTPTPTPPRLSPASSHSDCSLSTSSLECTINPIATPIPKPEAHIFRAEVISTTLNTNPLTTPPKPAMNRQESLRENIEKITQLQSVLMSAHLCDASLLGGYTTPLITSPTASFANEPLMTPPLPPSPPPPLEPEEEEEQEENDVHDKQPEIEELQLMQRSELVLMVNPKPSTTDMACQTDELEDRDTDLEAAREEHQTRTTLQPRQRQPIELDYEQMSRELVKLLPPGDKIADILTPKICKPTSQYVSNLYNPDVPLRLAKRDVGTSTLMRMKSITSSAEIRVVSVELQLAEPSEEPTNLIKQKMDELIKHLNQKIVSLKREQQTISEECSANDRLGQDLFAKLAEKVRPSEASKFRTHVDAVGNITSLLLSLSERLAQTESSLETRQQERGALESKRDLLYEQMEEAQRLKSDIERRGVSIAGLLAKNLSADMCADYDYFINMKAKLIADARDLAVRIKGSEEQLSSLSDALVQSDC |
| 3530 | sp|P33671|SDC3\_RAT | MKPGPPRRGTAQGQRVDTATHGPGARGLLLPPLLLLLLAGRAAGAQRWRNENFERPVDLEGSGDDDSFPDDELDDLYSGSGSGYFEQESGLETAMRFIPDIALAAPTAPAMLPTTVIQPVDTPFEELLSEHPGPEPVTSPPLVTEVTEVVEEPSQRATTISTTTSTTAATTTGAPTMATAPATAATTAPSTPAAPPATATTADIRTTGIQGLLPLPLTTAATAKATTPAVPSPPTTVTTLDTEAPTPRLVNTATSRPRALPRPVTTQEPEVAERSTLPLGTTAPGPTEVAQTPTPESLLTTTQDEPEVPVSGGPSGDFELQEETTQPDTANEVVAVEGAAAKPSPPLGTLPKGARPGLGLHDNAIDSGSSAAQLPQKSILERKEVLVAVIVGGVVGALFAAFLVTLLIYRMKKKDEGSYTLEEPKQASVTYQKPDKQEEFYA |
| 3531 | sp|P29355|SEM5\_CAEEL | MEAVAEHDFQAGSPDELSFKRGNTLKVLNKDEDPHWYKAELDGNEGFIPSNYIRMTECNWYLGKITRNDAEVLLKKPTVRDGHFLVRQCESSPGEFSISVRFQDSVQHFKVLRDQNGKYYLWAVKFNSLNELVAYHRTASVSRTHTILLSDMNVETKFVQALFDFNPQESGELAFKRGDVITLINKDDPNWWEGQLNNRRGIFPSNYVCPYNSNKSNSNVAPGFNFGN |
| 3532 | sp|G5EBT1|SMA5\_CAEEL | MVFADFLEKIKSLFAKTKDPITSMSPPQENRSPKAEYLNNFFNTNPTNGKSRGSQEAPRKPLGQTNLNVQGSMPAKKEGFNRVLDGLKKRQLQHDFKLERAAETYEPTQNIGSGAFGIVCEAVETSSNQKVAIKKVAHASATPTLARRTLREIRVLRYINHPNIVPLRDIFRTKGPLGIDVFLVMDLMQNNLHHIIYGNEDPLEEHYINAFLGQLLRGLEYLHAACIAHRDLKPSNLLVNQDGTLRIADFGMAKCADNSSKKHDDEEHCYYMTQHVATLPYRAPELLFVLPEHSTAVDMWAVGCIFGEMVIRNEILPGRSVQGQIKMLLTMLGQPPQEVINEVRCDRTRKLIQDFGRKADAEWDDIMFCKARGDDQIVRGNCDTIDFVKQLFQYDAQKRINIQDALLHPYIQRVIPAEAPQKKCPFRVKKDMMQVEDLNHQELISMMKQDVRSAENPITYSELHSGDSTGSTSDMSTNTSGEYSPIAQHEQLLEDVATQISICEPTCDL |
| 3533 | sp|Q9UHJ3|SMBT1\_HUMAN | MNGEQQLDADAGSGMEEVELSWEDYLEETGSTAVPYGSFKHVDTRLQNGFAPGMKLEVAVRTDPETYWVATVITTCEQLLLLRYDGYGEDRRADFWCDIRKADLYPIGWCEQNKKTLEAPEGIRDKVSDWDEFLRQTLIGACSPPVPLLEGLRNGRNPLDLIAPGSRLECQAFQDSLSTWIVTVVENIGGRLKLRYEGLESSDNYEHWLYYLDPFLHHVGWAAQQGYELQPPSAIRHLKNEAEWQEILAKVKEEEEEPLPSYLFKDKQVIGIHTFSVNMKLEAVDPWSPFGISPATVVKVFDEKYFLVEMDDLRPENHARRSFVCHADSPGIFPVQWSLKNGLHISPPPGYPSQDFDWADYLKQCGAEAAPQRCFPPLISEHEFKENMKLEAVNPILPEEVCVATITAVRGSYLWLQLEGSKKPIPECIVSVESMDIFPLGWCETNGHPLSTPRRARVYKQRKIAVVQPEKQVPSSRTVHEGLRNQELNSTESVMINGKYCCPKIYFNHRCFSGPYLNKGRIAELPQCVGPGNCVLVLREVLTLLINAAYKPSRVLRELQLDKDSVWHGCGEVLKAKYKGKSYRATVEIVKTADRVTEFCRQTCIKLECCPNLFGPRMVLDKCSENCSVLTKTKYTHYYGKKKNKRIGRPPGGHSNLACALKKASKRRKRRKNVFVHKKKRSSASVDNTPAGSPQGSGGEDEDDPDEGDDDSLSEGSTSEQQDELQEESEMSEKKSCSSSPTQSEISTSLPPDRQRRKRELRTFSFSDDENKPPSPKEIRIEVAERLHLDSNPLKWSVADVVRFIRSTDCAPLARIFLDQEIDGQALLLLTLPTVQECMDLKLGPAIKLCHHIERIKFAFYEQFAN |
| 3534 | sp|Q01406|SRC8\_CHICK | MTVLLLVVLQMWKATAGHSIAVSQDDGADDWETDPDFVNDVSEKEQRWGAKTVKGSGHQEHINIHQLRENVFQEHQTIKEKELETGPKASHGYGGKFGVEQDRMDKSAVGHEYQSKLSKHCSQVDSVKGFGGKFGVQTDRVDQSAVGFEYQGKTEKHASQKDYSSGFGGKYGVQADRVDKSAVGFDYQGKTEKHESQKDYSKGFGGKYGVDKDKVDKSAVGFEYQGKTEKHESQKDYVKGFGGKFGVQTDRQDKCALGWDHQEKVQLHESQKDYKSGFGGKFGVQTERQDPSAVGFDYKEKLAKHESQQDYSKGFGGKYGVQKDRMDKNAATFEDIEKPTSTYQKTKPVERVANKTSSIRANLENLAKEKEQEDRRKAEAERAQRMAREKQEQEEARRKLEEQAKAKKQTPPPSPTTQPAEPKTPSSPVYQDAVSYDAESAYKNSSTTYSAEHEPESGYKTTGSDYQEAVSQREAEYEPETVYEVAGAGDHYQAEENTYDEYENELGITAIALYDYQAAGDDEISFDPDDIITNIEMIDDGWWRGVCKGRYGLFPANYVELRQ |
| 3535 | sp|P04917|SRGN\_RAT | MRQVPVGTRLVLALAFVLVWGSSVQGYPARRARYQWVRCKPDGIFANCIEEKGPRFDLIAEESNVGPPMTDPVLMRGFPNDFFPISDDYSGSGSGSGSGSGSGSGSGSGSGSGSGSGSGSGSGSGSGSGSGSGSGSGSLADMEWEYQPTDENNIVYFNYGPFDRMLTEQNQEQPGDFII |
| 3536 | sp|Q8SAB7|SPK1\_ARATH | MENNNLGLRFRKLPRQPLALPKLDPLLDENLEQWPHLNQLVQCYGTEWVKDVNKYGHYENIRPDSFQTQIFEGPDTDTETEIRLASARSATIEEDVASISGRPFSDPGSSKHFGQPPLPAYEPAFDWENERAMIFGQRTPESPAASYSSGLKISVRVLSLAFQSGLVEPFFGSIALYNQERKEKLSEDFYFQIQPTEMQDAKLSSENRGVFYLDAPSASVCLLIQLEKTATEEGGVTSSVYSRKEPVHLTEREKQKLQVWSRIMPYRESFAWAVVPLFDNNLTTNTGESASPSSPLAPSMTASSSHDGVYEPIAKITSDGKQGYSGGSSVVVEISNLNKVKESYSEESIQDPKRKVHKPVKGVLRLEIEKHRNGHGDFEDLSENGSIINDSLDPTDRLSDLTLMKCPSSSSGGPRNGCSKWNSEDAKDVSRNLTSSCGTPDLNCYHAFDFCSTTRNEPFLHLFHCLYVYPVAVTLSRKRNPFIRVELRKDDTDIRKQPLEAIYPREPGVSLQKWVHTQVAVGARAASYHDEIKVSLPATWTPSHHLLFTFFHVDLQTKLEAPRPVVVGYASLPLSTYIHSRSDISLPVMRELVPHYLQESTKERLDYLEDGKNIFKLRLRLCSSLYPTNERVRDFCLEYDRHTLQTRPPWGSELLQAINSLKHVDSTALLQFLYPILNMLLHLIGNGGETLQVAAFRAMVDILTRVQQVSFDDADRNRFLVTYVDYSFDDFGGNQPPVYPGLATVWGSLARSKAKGYRVGPVYDDVLSMAWFFLELIVKSMALEQARLYDHNLPTGEDVPPMQLKESVFRCIMQLFDCLLTEVHERCKKGLSLAKRLNSSLAFFCYDLLYIIEPCQVYELVSLYMDKFSGVCQSVLHECKLTFLQIISDHDLFVEMPGRDPSDRNYLSSILIQELFLSLDHDELPLRAKGARILVILLCKHEFDARYQKAEDKLYIAQLYFPFVGQILDEMPVFYNLNATEKREVLIGVLQIVRNLDDTSLVKAWQQSIARTRLYFKLMEECLILFEHKKAADSILGGNNSRGPVSEGAGSPKYSERLSPAINNYLSEASRQEVRLEGTPDNGYLWQRVNSQLASPSQPYSLREALAQAQSSRIGASAQALRESLHPILRQKLELWEENVSATVSLQVLEITENFSSMAASHNIATDYGKLDCITTILTSFFSRNQSLAFWKAFFPIFNRIFDLHGATLMARENDRFLKQIAFHLLRLAVYRNDSVRKRAVIGLQILVKSSLYFMQTARLRALLTITLSELMSDVQVTHMKSDNTLEESGEARRLQQSLSEMADEAKSVNLLRECGLPDDTLLIIPEKFTENRWSWAEVKHLSDSLVLALDASLGHALLGSVMAMDRYAAAESFYKLGMAFAPVPDLHIMWLLHLCDAHQEMQSWAEAAQCAVAVAGVIMQALVARNDGVWSKDHVSALRKICPMVSGEFTTEASAAEVEGYGASKLTVDSAVKYLQLANKLFSQAELYHFCASILELVIPVYKSRKAYGQLAKCHTLLTNIYESILDQESNPIPFIDATYYRVGFYGEKFGKLDRKEYVYREPRDVRLGDIMEKLSHIYESRMDSNHILHIIPDSRQVKAEDLQAGVCYLQITAVDAVMEDEDLGSRRERIFSLSTGSVRARVFDRFLFDTPFTKNGKTQGGLEDQWKRRTVLQTEGSFPALVNRLLVTKSESLEFSPVENAIGMIETRTTALRNELEEPRSSDGDHLPRLQSLQRILQGSVAVQVNSGVLSVCTAFLSGEPATRLRSQELQQLIAALLEFMAVCKRAIRVHFRLIGEEDQEFHTQLVNGFQSLTAELSHYIPAILSEL |
| 3537 | sp|Q9UPE1|SRPK3\_HUMAN | MSASTGGGGDSGGSGGSSSSSQASCGPESSGSELALATPVPQMLQGLLGSDDEEQEDPKDYCKGGYHPVKIGDVFNGRYHVVRKLGWGHFSTVWLCWDIQRKRFVALKVVKSAGHYTETAVDEIKLLKCVRDSDPSDPKRETIVQLIDDFRISGVNGVHVCMVLEVLGHQLLKWIIKSNYQGLPVPCVKSIVRQVLHGLDYLHTKCKIIHTDIKPENILLCVGDAYIRRLAAEATEWQQAGAPPPSRSIVSTAPQEVLQTGKLSKNKRKKMRRKRKQQKRLLEERLRDLQRLEAMEAATQAEDSGLRLDGGSGSTSSSGCHPGGARAGPSPASSSPAPGGGRSLSAGSQTSGFSGSLFSPASCSILSGSSNQRETGGLLSPSTPFGASNLLVNPLEPQNADKIKIKIADLGNACWVHKHFTEDIQTRQYRAVEVLIGAEYGPPADIWSTACMAFELATGDYLFEPHSGEDYSRDEDHIAHIVELLGDIPPAFALSGRYSREFFNRRGELRHIHNLKHWGLYEVLMEKYEWPLEQATQFSAFLLPMMEYIPEKRASAADCLQHPWLNP |
| 3538 | sp|P01286|SLIB\_HUMAN | MPLWVFFFVILTLSNSSHCSPPPPLTLRMRRYADAIFTNSYRKVLGQLSARKLLQDIMSRQQGESNQERGARARLGRQVDSMWAEQKQMELESILVALLQKHSRNSQG |
| 3539 | sp|Q9WZC2|SPEE\_THEMA | MRTLKELERELQPRQHLWYFEYYTGNNVGLFMKMNRVIYSGQSDIQRIDIFENPDLGVVFALDGITMTTEKDEFMYHEMLAHVPMFLHPNPKKVLIIGGGDGGTLREVLKHDSVEKAILCEVDGLVIEAARKYLKQTSCGFDDPRAEIVIANGAEYVRKFKNEFDVIIIDSTDPTAGQGGHLFTEEFYQACYDALKEDGVFSAETEDPFYDIGWFKLAYRRISKVFPITRVYLGFMTTYPSGMWSYTFASKGIDPIKDFDPEKVRKFNKELKYYNEEVHVASFALPNFVKKELGLM |
| 3540 | sp|Q61466|SMRD1\_MOUSE | MAARAGFQSVAPSGGAGASGGAGVAAALGPGGTPGPPVRMGPAPGQGLYRSPMPGAAYPRPGMLPGSRMTPQGPSMGPPGYGGNPSVRPGLAQSGMDQSRKRPAPQQIQQVQQQAVQNRNHNAKKKKMADKILPQRIRELVPESQAYMDLLAFERKLDQTIMRKRLDIQEALKRPIKQKRKLRIFISNTFNPAKSDAEDGEGTVASWELRVEGRLLEDAALSKYDATKQKRKFSSFFKSLVIELDKDLYGPDNHLVEWHRTATTQETDGFQVKRPGDVNVRCTVLLMLDYQPPQFKLDPRLARLLGIHTQTRPVIIQALWQYIKTHKLQDPHEREFVLCDKYLQQIFESQRMKFSEIPQRLHALLMPPEPIIINHVISVDPNDQKKTACYDIDVEVDDTLKTQMNSFLLSTASQQEIATLDNKIHETIETINQLKTQREFMLSFARDPQGFINDWLQSQCRDLKTMTDVVGNPEEERRAEFYFQPWAQEAVCRYFYSKVQQRRQELEQALGIRNT |
| 3541 | sp|Q60898|SLAP1\_MOUSE | MGNSMKSTSPPSERPLSSSEGLESDFLAVLTDYPSPDISPPIFRRGEKLRVISDEGGWWKAISLSTGRESYIPGICVARVYHGWLFEGLGRDKAEELLQLPDTKIGSFMIRESETKKGFYSLSVRHRQVKHYRIFRLPNNWYYISPRLTFQCLEDLVTHYSEVADGLCCVLTTPCLAQNIPAPTSHPSPCTSPGSPVTLRQKTFDWKRVSRLQEGSEGAENPLRVDESLFSYGLRESIASYLSLTGDDSSSFDRKKKSLSLMYTGSKRKSSFFSAPQYFED |
| 3542 | sp|P42226|STAT6\_HUMAN | MSLWGLVSKMPPEKVQRLYVDFPQHLRHLLGDWLESQPWEFLVGSDAFCCNLASALLSDTVQHLQASVGEQGEGSTILQHISTLESIYQRDPLKLVATFRQILQGEKKAVMEQFRHLPMPFHWKQEELKFKTGLRRLQHRVGEIHLLREALQKGAEAGQVSLHSLIETPANGTGPSEALAMLLQETTGELEAAKALVLKRIQIWKRQQQLAGNGAPFEESLAPLQERCESLVDIYSQLQQEVGAAGGELEPKTRASLTGRLDEVLRTLVTSCFLVEKQPPQVLKTQTKFQAGVRFLLGLRFLGAPAKPPLVRADMVTEKQARELSVPQGPGAGAESTGEIINNTVPLENSIPGNCCSALFKNLLLKKIKRCERKGTESVTEEKCAVLFSASFTLGPGKLPIQLQALSLPLVVIVHGNQDNNAKATILWDNAFSEMDRVPFVVAERVPWEKMCETLNLKFMAEVGTNRGLLPEHFLFLAQKIFNDNSLSMEAFQHRSVSWSQFNKEILLGRGFTFWQWFDGVLDLTKRCLRSYWSDRLIIGFISKQYVTSLLLNEPDGTFLLRFSDSEIGGITIAHVIRGQDGSPQIENIQPFSAKDLSIRSLGDRIRDLAQLKNLYPKKPKDEAFRSHYKPEQMGKDGRGYVPATIKMTVERDQPLPTPELQMPTMVPSYDLGMAPDSSMSMQLGPDMVPQVYPPHSHSIPPYQGLSPEESVNVLSAFQEPHLQMPPSLGQMSLPFDQPHPQGLLPCQPQEHAVSSPDPLLCSDVTMVEDSCLSQPVTAFPQGTWIGEDIFPPLLPPTEQDLTKLLLEGQGESGGGSLGAQPLLQPSHYGQSGISMSHMDLRANPSW |
| 3543 | sp|D4AE59|STK11\_RAT | MDVADPQPLGLFPEGELMSVGMDTFIHRIDSTEVIYQPRRKRAKLIGKYLMGDLLGEGSYGKVKEVLDSETLCRRAVKILKKKKLRRIPNGEANVKKEIQLLRRLRHRNVIQLVDVLYNEEKQKRPTYMVMEYCVCGMQEMLDSVPEKRFPVCQAHGYFRQLIDGLEYLHSQGIVHKDIKPGNLLLTTNGTLKISDLGVAEALHPFAVDDTCRTSQGSPAFQPPEIANGLDTFSGFKVDIWSAGVTLYNITTGLYPFEGDNIYKLFENIGRGDFTIPCDCAPPLSDLLRGMLEYEPAKRFSIRQIRQHSWFRKKHPLAEALVPIPPSPDTKDRWRSMTVVPYLEDLHGRAEEEEDEDLFDIEDGIIYTQDFTVPGQVLEEEVGQNGQSHSLPKAVCVNGTEPQLSSKVKPEGRPGAANPARKVCSSNKIRRLSACKQQ |
| 3544 | sp|E1C7U0|STING\_CHICK | MPQDPSTRSSPARLLIPEPRAGRARHAACVLLAVCFVVLFLSGEPLAPIIRSVCTQLAALQLGVLLKGCCCLAEEIFHLHSRHHGSLWQVLCSCFPPRWYLALLLVGGSAYLDPPEDNGHSPRLALTLSCLCQLLVLALGLQKLSAVEVSELTESSKKNVAHGLAWSYYIGYLKVVLPRLKECMEELSRTNPMLRAHRDTWKLHILVPLGCDIWDDLEKADSNIQYLADLPETILTRAGIKRRVYKHSLYVIRDKDNKLRPCVLEFASPLQTLCAMSQDDCAAFSREQRLEQARLFYRSLRDILGSSKECAGLYRLIAYEEPAEPESHFLSGLILWHLQQQQREEYMVQEELPLGTSSVELSLQVSSSDLPQPLRSDCP |
| 3545 | sp|O55207|SYNJ2\_RAT | MALSKGLRLLARLDPTGPSSVLLEARGRGDCLLFEAGAVATLAPEEKEVIKGLYGKPTDAYGCLGELSLKSGGVPLSFLVLVTGCTSVGRIPDAEIYKITGTEFYPLQEEAKEEDRLPALKKILSSGVFYFAWPNDGACFDLTIRAQKQGDDCSEWGTSFFWNQLLHVPLRQHQVNCHDWLLKVICGVVTIRTVYASHKQAKACLISRISCERAGARFLTRGVNDDGHVSNFVETEQAIYMDDGVSSFVQIRGSVPLFWEQPGLQVGSHHLRLHRGLEANAPAFERHMVLLKEQYGQQVVVNLLGSRGGEEVLNRAFKKLLWASCHAGDTPMINFDFHQFAKGRKLEKLENLLRPQLKLHWDDFGVFAKGENVSPRFQKGTLRMNCLDCLDRTNTVQCFIALEVLHLQLESLGLNSKPITDRFVESFKAMWSLNGHGLSKVFTGSRALEGKAKVGKLKDGARSMSRTIQSNFFDGVKQEAIKLLLVGDVYNEESTDKGRMLLDNTALLGLGSNKQNSLSGMLDGKATPRILKAMTERQSEFTNFKRIQIAMGTWNVNGGKQFRSNLLGTTELTDWLLDAPQLSGAVDSQDDGGPADIFAVGFEEMVELSAGNIVNASTTNRKMWGEQLQKAISRSHRYILLTSAQLVGVCLYIFVRPYHVPFIRDVAIDTVKTGMGGKAGNKGAVGIRFQFHSTSFCFICSHLTAGQSQVKERNEDYREITHKLSFPSGRNIFSHDYVFWCGDFNYRIDLTYEEVFYFVKRQDWKKLMEFDQLQLQKSSGKIFKDFHEGTINFGPTYKYDVGSAAYDTSDKCRTPAWTDRVLWWRKKHPYDKTAGELNLLDSDLDGDANIRHTWSPGTLKYYGRAELQASDHRPVLAIVEVEVQEVDVGARERVFQEVSSVQGPLDATVIVNLQSPTLEERNEFPEDLRTELMQTLGNYGTIILVRINQGQMLVTFADSHSALSVLDVDGMKVKGRAVKIRPKTKDWLEGLREELIRKRDSMAPVSPTANSCLLEENFDFTSLDYESEGDVLEDDEDYLADEFGQPVVSDSELGGDDSSDTMSASTPASKSPALAKKKQHPTYKDDADLMTLKLELEVAGNFRHRSPSRSLSVPNRPRPPHPPQRPPPPTGLMVKKSASDASISSGTHGQYSILQTAKLLPGAPQQPPKARTGISKPYNVKQIKTTNAQEAEAAIRCLLEAGGGVPESAPGATPLRNQGSSKPEASLGPPVLPRRPVPRVPTMKKPTLRRTGKPMLPEEQCEQQPVHFTMASQEMNLETPPPITAPIPPVPKPRTFQPGRGVERRPSGGKPEPDDAPPVTGAVELSSPEAPEAPSLAPKVPPRRKKSAPAAFHLQVLQSNSQLLQGLTCSSSSPSPPKPDTPLLYPQMALGTSSAISPETDGPRVTEPEAASFHGDYPDPFWSLLHHPKLLNNNTWLSKSSEPLDLGSRTPERTHTDSAQVNASVVERGLPPDHGGKDFSHWMAASNKDKRTTLGV |
| 3546 | sp|Q8WW24|TEKT4\_HUMAN | MAQTVPPCELPCKEYDVARNTGAYTSSGLATASFRTSKYLLEEWFQNCYARYHQAFADRDQSERQRHESQQLATETQALAQRTQQDSTRTVGERLQDTHSWKSELQREMEALAAETNLLLAQKQRLERALDATEVPFSITTDNLQCRERREHPNLVRDHVETELLKEAELIRNIQELLKRTIMQAVSQIRLNREHKETCEMDWSDKMEAYNIDETCGRHHSQSTEVQAHPYSTTFQESASTPETRAKFTQDNLCRAQRERLASANLRVLVDCILRDTSEDLRLQCDAVNLAFGRRCEELEDARYKLHHHLHKTLREITDQEHNVAALKQAIKDKEAPLHVAQTRLYLRSHRPNMELCRDAAQFRLLSEVEELNMSLTALREKLLEAEQSLRNLEDIHMSLEKDIAAMTNSLFIDRQKCMAHRTRYPTILQLAGYQ |
| 3547 | sp|P29084|T2EB\_HUMAN | MDPSLLRERELFKKRALSTPVVEKRSASSESSSSSSKKKKTKVEHGGSSGSKQNSDHSNGSFNLKALSGSSGYKFGVLAKIVNYMKTRHQRGDTHPLTLDEILDETQHLDIGLKQKQWLMTEALVNNPKIEVIDGKYAFKPKYNVRDKKALLRLLDQHDQRGLGGILLEDIEEALPNSQKAVKALGDQILFVNRPDKKKILFFNDKSCQFSVDEEFQKLWRSVTVDSMDEEKIEEYLKRQGISSMQESGPKKVAPIQRRKKPASQKKRRFKTHNEHLAGVLKDYSDITSSK |
| 3548 | sp|Q9DC40|TELO2\_MOUSE | MDPALSAVRLTVQEAIHILSSSEDAGHILSTLGTLKRYLGGTEDPVLPEEKEEFATVHFSAVLRCLVSKLSPGWLELSPGGQLERLWESFFLDGPPDQAFLVLMEAIESTAGPSFRLMKMAQLLDTFLSTGRVAALMEEQCRPQTKPSFPLFQETLLSKVVGLPDLLGNCLQRDNLTQFFPQNYFPLLGQEVVQALKAVVNFLQDGLDCSVSFVSRVLGKVCIQGRKREILSVLVPQLTVLTQDSCLWQRVCWRLVEQVPDRAVEAVLTGLVEAAPRPEVLSRLLGNLVVKNKKARFVVTRKLLLLQYQHTTPMVQSLLGYLALDSQRRPLLIQVLKELLETWGCSSAVRHTPLEQQCYISKAILVCLAHLGEPELQDIRDELLASMMAGVKCRLDSSLPPVRRLGMIVAEVISSRIHPEGPLLKFQYEDDEMSRELLALATPEPAGDCSSVSRGPSPAPVDTESPVEMPEKAVESDVPPTQPQGSDSELDSDDEFIPYDMSGDRELKSSKEPLYIRDCVEALTTSEDMERWEASLKGLEGLVYRSPTATREVSVELAKVLLHLEEKTCVAEFEQLRQSALVAVTVTDPEQVAKYLTSQFYGLNYSLRQRMDILDVLVLAAQALSRPKSLQRRSQHGPPVPGTMCSPALAVSQTGNVAAPDWQVVVEERIRSKTRRFSKGCPQRELSGVPNEFSSVAGYFFFPLLQHFDRPLVTFDLLGDDQLVLGRLTHTLASLMYLAVNTTVAVPMGKALLEFVWALRFHVDIYVRRGLLSAVSSVLLSVPTERLLGDLPDELLEARSWLADVAEKDVDEDCRELAVRALLLLERLKDKLLSSSSPQP |
| 3549 | sp|P32780|TF2H1\_HUMAN | MATSSEEVLLIVKKVRQKKQDGALYLMAERIAWAPEGKDRFTISHMYADIKCQKISPEGKAKIQLQLVLHAGDTTNFHFSNESTAVKERDAVKDLLQQLLPKFKRKANKELEEKNRMLQEDPVLFQLYKDLVVSQVISAEEFWANRLNVNATDSSSTSNHKQDVGISAAFLADVRPQTDGCNGLRYNLTSDIIESIFRTYPAVKMKYAENVPHNMTEKEFWTRFFQSHYFHRDRLNTGSKDLFAECAKIDEKGLKTMVSLGVKNPLLDLTALEDKPLDEGYGISSVPSASNSKSIKENSNAAIIKRFNHHSAMVLAAGLRKQEAQNEQTSEPSNMDGNSGDADCFQPAVKRAKLQESIEYEDLGKNNSVKTIALNLKKSDRYYHGPTPIQSLQYATSQDIINSFQSIRQEMEAYTPKLTQVLSSSAASSTITALSPGGALMQGGTQQAINQMVPNDIQSELKHLYVAVGELLRHFWSCFPVNTPFLEEKVVKMKSNLERFQVTKLCPFQEKIRRQYLSTNLVSHIEEMLQTAYNKLHTWQSRRLMKKT |
| 3550 | sp|Q9DBY1|SYVN1\_MOUSE | MFRTAVMMAASLALTGAVVAHAYYLKHQFYPTVVYLTKSSPSMAVLYIQAFVLVFLLGKVMGKVFFGQLRAAEMEHLLERSWYAVTETCLAFTVFRDDFSPRFVALFTLLLFLKCFHWLAEDRVDFMERSPNISWLFHCRIVSLMFLLGILDFLFVSHAYHSILTRGASVQLVFGFEYAILMTMVLTIFIKYVLHSVDLQSENPWDNKAVYMLYTELFTGFIKVLLYMAFMTIMIKVHTFPLFAIRPMYLAMRQFKKAVTDAIMSRRAIRNMNTLYPDATPEELQAVDNVCIICREEMVTGAKRLPCNHIFHTSCLRSWFQRQQTCPTCRMDVLRASLPAQSPPPPEPADQGPPPAPHPQPLLPQPPNFPQGLLPPFPPGMFPLWPPMGPFPPVPPPPSSGEAAAPPPTSTAVSRPSGAATTTAAGTSTSAPAPGSVPGPEAGPAPGFPFPPPWMGMPLPPPFAFPPMPVPPAGFAGLTPEELRALEGHERQHLEARLQSLRNIHTLLDAAMLQINQYLTVLASLGPPRPATSVNPTEETASTVVSAAPSTSAPSSEAPTPSPGASPPIPEAEKPPAPESVGIVEELPEDGEPDAAELRRRRLQKLESPVAH |
| 3551 | sp|Q9Z0F7|SYUG\_MOUSE | MDVFKKGFSIAKEGVVGAVEKTKQGVTEAAEKTKEGVMYVGTKTKENVVQSVTSVAEKTKEQANAVSEAVVSSVNTVANKTVEEAENIVVTTGVVRKEDLEPPAQDQEAKEQEENEEAKSGED |
| 3552 | sp|O82277|TCP10\_ARATH | MGLKGYSVGEGGGEIVEVQGGHIIRATGRKDRHSKVFTSKGPRDRRVRLSAHTAIQFYDVQDRLGYDRPSKAVDWLIKKAKTAIDKLELGETTTTTTRQEPVNTKPESPTLVFQRENNDQTQFVAANLDPEDAMKTFFPATTTTNGGGGTNINFQNYPHQDDNNMVSRTTTPPPNLSQDLGLSLHPFQGNNNTVVVPETNNFTTTHFDTFGRISGWNHHDLTMTSSSSSEHQQQEQEERSNGGFMVNHHPHHHHHQPSMMTLLNSQQQQVFLGGQQQQQQRGTLQSSLFPHSFRSWDHHQTTSDHHHHQNQASSMFASSSQYGSHGMMMMQGLSFPNTTRLLHGEEATQPNSSSSPPNSHL |
| 3553 | sp|Q17RD7|SYT16\_HUMAN | MVLAMASQDVQNFFQPFSSWISRVYEALQQAGDMLSASLVNISKQDSKLSDKLDQDLDNIQIQETYFEDEEQDNDWSQEDANSLFLEVDHFSCCNSDLQDSAQNSSPSLSQHAKDSCSTMSQWPNWASDDRKLPHVLSSIAEEEHHLEKQRSGLQHGFDSQLPGTLETVNGKKQVNSFGDDEELSTSSDSDEEVIKQFEISVSRSQSFRSVTSEKGKQTGLEQKPKFSRSLLTHGEDGTEVSACEDLDGASQRRYSENLSYGEDDHIPAHSQSPCERGDAKHHGTSHQESSVVQSLRRQSTEGSLEMETAFNSRGFEDSYATDSSSMWSPEEQDRTNLQVPSGVSEPISKCGDLDVIFEYRAASQKLTVTIVRAQGLPDKDRSGVNSWQVHVVLLPGKKHRGRTNIQRGPNPVFREKVTFAKLEPRDVAACAVRFRLYAARKMTRERMMGEKLFYLSHLHPEGEMKVTLVLEPRSNISSGGSPLSPSAVSHSDSTSSTQSLSHGGAPELLVGLSYNATTGRLSVEMIKGSHFRNLAVNRAPDTYGKLFLLNSVGQEMSRCKTSIRRGQPNPVYKETFVFQVALFQLSDVTLMISVYNRRTMKRKEMIGWIALGQNSSGEEEQDHWEEMKETKGQQICRWHTLLES |
| 3554 | sp|Q8NFU7|TET1\_HUMAN | MSRSRHARPSRLVRKEDVNKKKKNSQLRKTTKGANKNVASVKTLSPGKLKQLIQERDVKKKTEPKPPVPVRSLLTRAGAARMNLDRTEVLFQNPESLTCNGFTMALRSTSLSRRLSQPPLVVAKSKKVPLSKGLEKQHDCDYKILPALGVKHSENDSVPMQDTQVLPDIETLIGVQNPSLLKGKSQETTQFWSQRVEDSKINIPTHSGPAAEILPGPLEGTRCGEGLFSEETLNDTSGSPKMFAQDTVCAPFPQRATPKVTSQGNPSIQLEELGSRVESLKLSDSYLDPIKSEHDCYPTSSLNKVIPDLNLRNCLALGGSTSPTSVIKFLLAGSKQATLGAKPDHQEAFEATANQQEVSDTTSFLGQAFGAIPHQWELPGADPVHGEALGETPDLPEIPGAIPVQGEVFGTILDQQETLGMSGSVVPDLPVFLPVPPNPIATFNAPSKWPEPQSTVSYGLAVQGAIQILPLGSGHTPQSSSNSEKNSLPPVMAISNVENEKQVHISFLPANTQGFPLAPERGLFHASLGIAQLSQAGPSKSDRGSSQVSVTSTVHVVNTTVVTMPVPMVSTSSSSYTTLLPTLEKKKRKRCGVCEPCQQKTNCGECTYCKNRKNSHQICKKRKCEELKKKPSVVVPLEVIKENKRPQREKKPKVLKADFDNKPVNGPKSESMDYSRCGHGEEQKLELNPHTVENVTKNEDSMTGIEVEKWTQNKKSQLTDHVKGDFSANVPEAEKSKNSEVDKKRTKSPKLFVQTVRNGIKHVHCLPAETNVSFKKFNIEEFGKTLENNSYKFLKDTANHKNAMSSVATDMSCDHLKGRSNVLVFQQPGFNCSSIPHSSHSIINHHASIHNEGDQPKTPENIPSKEPKDGSPVQPSLLSLMKDRRLTLEQVVAIEALTQLSEAPSENSSPSKSEKDEESEQRTASLLNSCKAILYTVRKDLQDPNLQGEPPKLNHCPSLEKQSSCNTVVFNGQTTTLSNSHINSATNQASTKSHEYSKVTNSLSLFIPKSNSSKIDTNKSIAQGIITLDNCSNDLHQLPPRNNEVEYCNQLLDSSKKLDSDDLSCQDATHTQIEEDVATQLTQLASIIKINYIKPEDKKVESTPTSLVTCNVQQKYNQEKGTIQQKPPSSVHNNHGSSLTKQKNPTQKKTKSTPSRDRRKKKPTVVSYQENDRQKWEKLSYMYGTICDIWIASKFQNFGQFCPHDFPTVFGKISSSTKIWKPLAQTRSIMQPKTVFPPLTQIKLQRYPESAEEKVKVEPLDSLSLFHLKTESNGKAFTDKAYNSQVQLTVNANQKAHPLTQPSSPPNQCANVMAGDDQIRFQQVVKEQLMHQRLPTLPGISHETPLPESALTLRNVNVVCSGGITVVSTKSEEEVCSSSFGTSEFSTVDSAQKNFNDYAMNFFTNPTKNLVSITKDSELPTCSCLDRVIQKDKGPYYTHLGAGPSVAAVREIMENRYGQKGNAIRIEIVVYTGKEGKSSHGCPIAKWVLRRSSDEEKVLCLVRQRTGHHCPTAVMVVLIMVWDGIPLPMADRLYTELTENLKSYNGHPTDRRCTLNENRTCTCQGIDPETCGASFSFGCSWSMYFNGCKFGRSPSPRRFRIDPSSPLHEKNLEDNLQSLATRLAPIYKQYAPVAYQNQVEYENVARECRLGSKEGRPFSGVTACLDFCAHPHRDIHNMNNGSTVVCTLTREDNRSLGVIPQDEQLHVLPLYKLSDTDEFGSKEGMEAKIKSGAIEVLAPRRKKRTCFTQPVPRSGKKRAAMMTEVLAHKIRAVEKKPIPRIKRKNNSTTTNNSKPSSLPTLGSNTETVQPEVKSETEPHFILKSSDNTKTYSLMPSAPHPVKEASPGFSWSPKTASATPAPLKNDATASCGFSERSSTPHCTMPSGRLSGANAAAADGPGISQLGEVAPLPTLSAPVMEPLINSEPSTGVTEPLTPHQPNHQPSFLTSPQDLASSPMEEDEQHSEADEPPSDEPLSDDPLSPAEEKLPHIDEYWSDSEHIFLDANIGGVAIAPAHGSVLIECARRELHATTPVEHPNRNHPTRLSLVFYQHKNLNKPQHGFELNKIKFEAKEAKNKKMKASEQKDQAANEGPEQSSEVNELNQIPSHKALTLTHDNVVTVSPYALTHVAGPYNHWV |
| 3555 | sp|O15178|TBXT\_HUMAN | MSSPGTESAGKSLQYRVDHLLSAVENELQAGSEKGDPTERELRVGLEESELWLRFKELTNEMIVTKNGRRMFPVLKVNVSGLDPNAMYSFLLDFVAADNHRWKYVNGEWVPGGKPEPQAPSCVYIHPDSPNFGAHWMKAPVSFSKVKLTNKLNGGGQIMLNSLHKYEPRIHIVRVGGPQRMITSHCFPETQFIAVTAYQNEEITALKIKYNPFAKAFLDAKERSDHKEMMEEPGDSQQPGYSQWGWLLPGTSTLCPPANPHPQFGGALSLPSTHSCDRYPTLRSHRSSPYPSPYAHRNNSPTYSDNSPACLSMLQSHDNWSSLGMPAHPSMLPVSHNASPPTSSSQYPSLWSVSNGAVTPGSQAAAVSNGLGAQFFRGSPAHYTPLTHPVSAPSSSGSPLYEGAAAATDIVDSQYDAAAQGRLIASWTPVSPPSM |
| 3556 | sp|Q9R0N6|SYT8\_MOUSE | MQADRSMKMGHALNPFSTSAPLDATAGPSLIPDLITRIPWPRWTLFIAILAAGVLLVSCLLCVICCYCHRHRHRKQPKDKETVGLGSARNSTTTHLVQPDVDCLEPCSGGDQQWGRLLLSLEYDFGSQEIRVGLRQAGNLKAEGTADPYAWVSVSTQSGRRHETKVHRGTLSPMFEETCCFLVPPAELPKATLKVQLWDFKRFSEHEPLGELQLPLGTVDLQHVLESWYQLGPPGTTEPEQMGELCFSLRYVPSSGSLTVVVLEARGLNPGLAEAYVKIQLMLNQRKWKKSKTSSKKGTTTPYFNEAFVFLVPVSQLQSVDLVLAVWARGLQLRTEPVGKVLLGSRASGQPLQHWADMLAHARRPIAQWHHLRSPREVDRVLALQPRLPLLRPRS |
| 3557 | sp|Q9Y242|TCF19\_HUMAN | MLPCFQLLRIGGGRGGDLYTFHPPAGAGCTYRLGHRADLCDVALRPQQEPGLISGIHAELHAEPRGDDWRVSLEDHSSQGTLVNNVRLPRGHRLELSDGDLLTFGPEGPPGTSPSEFYFMFQQVRVKPQDFAAITIPRSRGEARVGAGFRPMLPSQGAPQRPLSTFSPAPKATLILNSIGSLSKLRPQPLTFSPSWGGPKSLPVPAPPGEMGTTPSAPPQRNRRKSVHRVLAELDDESEPPENPPPVLMEPRKKLRVDKAPLTPTGNRRGRPRKYPVSAPMAPPAVGGGEPCAAPCCCLPQEETVAWVQCDGCDVWFHVACVGCSIQAAREADFRCPGCRAGIQT |
| 3558 | sp|Q02858|TIE2\_MOUSE | MDSLAGLVLCGVSLLLYGVVEGAMDLILINSLPLVSDAETSLTCIASGWHPHEPITIGRDFEALMNQHQDPLEVTQDVTREWAKKVVWKREKASKINGAYFCEGRVRGQAIRIRTMKMRQQASFLPATLTMTVDRGDNVNISFKKVLIKEEDAVIYKNGSFIHSVPRHEVPDILEVHLPHAQPQDAGVYSARYIGGNLFTSAFTRLIVRRCEAQKWGPDCSRPCTTCKNNGVCHEDTGECICPPGFMGRTCEKACEPHTFGRTCKERCSGPEGCKSYVFCLPDPYGCSCATGWRGLQCNEACPSGYYGPDCKLRCHCTNEEICDRFQGCLCSQGWQGLQCEKEGRPRMTPQIEDLPDHIEVNSGKFNPICKASGWPLPTSEEMTLVKPDGTVLQPNDFNYTDRFSVAIFTVNRVLPPDSGVWVCSVNTVAGMVEKPFNISVKVLPEPLHAPNVIDTGHNFAIINISSEPYFGDGPIKSKKLFYKPVNQAWKYIEVTNEIFTLNYLEPRTDYELCVQLARPGEGGEGHPGPVRRFTTASIGLPPPRGLSLLPKSQTALNLTWQPIFTNSEDEFYVEVERRSLQTTSDQQNIKVPGNLTSVLLSNLVPREQYTVRARVNTKAQGEWSEELRAWTLSDILPPQPENIKISNITDSTAMVSWTIVDGYSISSIIIRYKVQGKNEDQHIDVKIKNATVTQYQLKGLEPETTYHVDIFAENNIGSSNPAFSHELRTLPHSPASADLGGGKMLLIAILGSAGMTCITVLLAFLIMLQLKRANVQRRMAQAFQNREEPAVQFNSGTLALNRKAKNNPDPTIYPVLDWNDIKFQDVIGEGNFGQVLKARIKKDGLRMDAAIKRMKEYASKDDHRDFAGELEVLCKLGHHPNIINLLGACEHRGYLYLAIEYAPHGNLLDFLRKSRVLETDPAFAIANSTASTLSSQQLLHFAADVARGMDYLSQKQFIHRDLAARNILVGENYIAKIADFGLSRGQEVYVKKTMGRLPVRWMAIESLNYSVYTTNSDVWSYGVLLWEIVSLGGTPYCGMTCAELYEKLPQGYRLEKPLNCDDEVYDLMRQCWREKPYERPSFAQILVSLNRMLEERKTYVNTTLYEKFTYAGIDCSAEEAA |
| 3559 | sp|Q9Y3Q3|TMED3\_HUMAN | MGSTVPRSASVLLLLLLLRRAEQPCGAELTFELPDNAKQCFHEEVEQGVKFSLDYQVITGGHYDVDCYVEDPQGNTIYRETKKQYDSFTYRAEVKGVYQFCFSNEFSTFSHKTVYFDFQVGDEPPILPDMGNRVTALTQMESACVTIHEALKTVIDSQTHYRLREAQDRARAEDLNSRVSYWSVGETIALFVVSFSQVLLLKSFFTEKRPISRAVHS |
| 3560 | sp|P50591|TNF10\_HUMAN | MAMMEVQGGPSLGQTCVLIVIFTVLLQSLCVAVTYVYFTNELKQMQDKYSKSGIACFLKEDDSYWDPNDEESMNSPCWQVKWQLRQLVRKMILRTSEETISTVQEKQQNISPLVRERGPQRVAAHITGTRGRSNTLSSPNSKNEKALGRKINSWESSRSGHSFLSNLHLRNGELVIHEKGFYYIYSQTYFRFQEEIKENTKNDKQMVQYIYKYTSYPDPILLMKSARNSCWSKDAEYGLYSIYQGGIFELKENDRIFVSVTNEHLIDMDHEASFFGAFLVG |
| 3561 | sp|Q06807|TIE2\_BOVIN | MDSLAGLVLCGVSLLLSATVDGAMDLILINSLPLVSDAETSLTCIASGWRPHEPITIGRDFEALMNQHQDPLEVTQDATREWAKKVVWKREKASKINGAYFCEGRVRGQAIRIRTMKMRQQASFLPATLTMTVDRGDNVNISFKKVLIKEEDAVIYKNGSFIHSVPRHEVPDILEVQVPHAQPQDAGVYSARYIGGNLFTSAFTRLIVRRCEAQKWGPECNRICTACMNNGICHEDTGECICPPGFMGRTCEKACEPHTFGRTCKERCSEPEGCKSFVFCLPDPYGCSCATGWKGLQCNEACQPGYYGPDCKLRCSCTNGEKCDRFQGCLCSPGRQGLQCEKEGVPRMTPKIEDLPDHIEVNSGKFNPICKASGWPRPANEEMTLVKPDGTVLRPKDFNHTGHLSVATFTINRILPPDSGVWVCSVNTVSGMVEKPFNISVKVLPKPLNAPKVIDTGHNFAVINISSEPYFGDGPIKSKKLLYKPVNHYEAWRHIQVTNEIVTLNYLEPRTEYELCVQLVRRGEGGEGHPGPVRRFTTASIGLPPPRGLSLLPKSQTTLNLTWQPIFPSSEDDFYVEVERRSVQMNSDQQNIKVPGNLTSVLLNNLHPREQYIVRARVNTKAQGEWSEDLIAWTLSDIVPPQPENIKIFNITDSSAVISWTILDGYSISAIIIRYKVQGKNEDQHIDVKIKNATITQYQLKGLEPQTVYQVDIFAENNIGSSNPTSSHELTTLSESQAPADLGGRKMLLIAILGSAGMTCLTVLLAFLIMLQLKRANVQRRMAQAFQNVREEPAVQFNSGTLALNRKAKNNPDPTIYPVLDWNDIKFQDVIGEGNFGQVLKARIKKDGLRMDAAIKRMKEYASKDDHRDFAGELEVLCKLGHHPNIINLLGACEHRGYLYLAIEYAPHGNLLDFLRKSRVLETDPAFAIANSTASTLSSQQLLHFAADVARGMDYLSQKQFIHRDLAARNILVGENYVAKIADFGLSRGQEVYVKKTMGRLPVRWMAIESLNYSVYTTNSDVWSYGVLLWEIVSLGGTPYCGMTCAELYEKLPQGYRLEKPLNCDDEVYDLMRQCWREKPYERPSFAQILVSLNRMLEERKTYVNTTLYEKFTYAGIDCSAEEAA |
| 3562 | sp|P32776|TFB1\_YEAST | MSHSGAAIFEKVSGIIAINEDVSPAELTWRSTDGDKVHTVVLSTIDKLQATPASSEKMMLRLIGKVDESKKRKDNEGNEVVPKPQRHMFSFNNRTVMDNIKMTLQQIISRYKDADIYEEKRRREESAQHTETPMSSSSVTAGTPTPHLDTPQLNNGAPLINTAKLDDSLSKEKLLTNLKLQQSLLKGNKVLMKVFQETVINAGLPPSEFWSTRIPLLRAFALSTSQKVGPYNVLSTIKPVASSENKVNVNLSREKILNIFENYPIVKKAYTDNVPKNFKEPEFWARFFSSKLFRKLRGEKIMQNDRGDVIIDRYLTLDQEFDRKDDDMLLHPVKKIIDLDGNIQDDPVVRGNRPDFTMQPGVDINGNSDGTVDILKGMNRLSEKMIMALKNEYSRTNLQNKSNITNDEEDEDNDERNELKIDDLNESYKTNYAIIHLKRNAHEKTTDNDAKSSADSIKNADLKVSNQQMLQQLSLVMDNLINKLDLNQVVPNNEVSNKINKRVITAIKINAKQAKHNNVNSALGSFVDNTSQANELEVKSTLPIDLLESCRMLHTTCCEFLKHFYIHFQSGEQKQASTVKKLYNHLKDCIEKLNELFQDVLNGDGESMSNTCTAYLKPVLNSITLATHKYDEYFNEYNNNSN |
| 3563 | sp|Q9WU72|TN13B\_MOUSE | MDESAKTLPPPCLCFCSEKGEDMKVGYDPITPQKEEGAWFGICRDGRLLAATLLLALLSSSFTAMSLYQLAALQADLMNLRMELQSYRGSATPAAAGAPELTAGVKLLTPAAPRPHNSSRGHRNRRAFQGPEETEQDVDLSAPPAPCLPGCRHSQHDDNGMNLRNIIQDCLQLIADSDTPTIRKGTYTFVPWLLSFKRGNALEEKENKIVVRQTGYFFIYSQVLYTDPIFAMGHVIQRKKVHVFGDELSLVTLFRCIQNMPKTLPNNSCYSAGIARLEEGDEIQLAIPRENAQISRNGDDTFFGALKLL |
| 3564 | sp|O73791|TIE2\_DANRE | MCLLDSCTALLLLGCWMSGSAVRISDVTLVNPDPVVSPLTAPSLLCVSSDWSSGGSVLALGQEFPRPQGSVLALGQEFPHTEPRPHPAAATVTWSSRSHAFGAFYCQIRNSTGRKIYTYKMLQEAAFLPESLTITVNQGENINISYSRRLYSPEDTVIHKNGHFEHSSPKEDISDIIHYPVTNAKAESHAGIYAIRYISAAPSSAAITRLIVRSCRAGFWGPNCTESCPRCANGGVCDDTTGECVCPPGFRGHTCDIVCGEGRFGAGCKERCVDGVCRALVFCLRDPYGCSCASGWRGLSCNDACPDGYYGAGCTQKCVCAKGRCDRFRGCVCAGRHGSRCEEADSSPVISHLRDVEINTGVELSVNCSASGRPAPLHGDITLITANRTTIAAVDTHTLNDQSTSVFRVQQVRVSSAGRWRCQVNNTHMQVEDEFTVEVKVPPRPQNPPVLQGSGPRHLLLLLNTEPYSGDGPIATTTLLYRPASAHTWSSVTAHGPLVRLDNLYPMTQYLTQVQLSRPGPGGAGQAGPAATFSTQVLELPVGVKLSAVSQTALLLSWDIAPAEQHCTYEVSCLQAGAPGTLRTFQLPSNSSAMHLSDLKPRHKYQCTVRSSCGVGQNHPSASAWTLSDQLPPPPANISIWNISDTSAVLTWAVAEGESVSRAVIRFQQVEQAQYRQQVELPVQTQQLHMRFQLLGLRPNTGYQLQLWTVNNMGESAESPPVSLMTLPQQESSALFAAHGHLLLYAILGSAGMTCCTVLLAFCIVLQLKRNTLQRRIHSILREEPAVHFSSAPPPHRRSAVVSRSLVFPALQWSDIQFQDVLGEGNFGQVLKARIRKDGLRMDAAVKRMKDYASQDDHRDFAGELEVLCRLGPHKNIIHLLGACEHRGYLYLAIEFAPHGNLLDFLRKSRVLETDPAFAIAHRTASTLSSQQLLAFSADVARGMSYLSQKQFIHRDLAARNVLVGENFVAKIADFGLSRGQEVYVKKTMGRLPVRWMAIESLNYSVYTTNSDVWSYGVLLWEVVSLGGTPYCGMTCAELYEKLPLGFRLEKPLNCDDEVYELMQQCWREKPFERPSFSQILLSLGRMLEERKTYVNTTLYEKFTYAGIDCSAEEAG |
| 3565 | sp|Q62440|TLE1\_MOUSE | MFPQSRHPTPHQAAGQPFKFTIPESLDRIKEEFQFLQAQYHSLKLECEKLASEKTEMQRHYVMYYEMSYGLNIEMHKQTEIAKRLNTICAQVIPFLSQEHQQQVAQAVERAKQVTMAELNAIIGQQQLQAQHLSHGHGPPVPLTPHPSGLQPPGIPPLGGSASLLALSSALSGQSHLAIKDDKKHHDAERHRDRESGTSNSLLVPDSLRSTDKRRNGPEFSSDIKKRKVDDKDNYDSDGDKSDDNLVVDVSNEDPSSPHASPTHSPRENGIDKNRLLKKDASGSPASTASSGSSSSLKSKEVSLHEKANTPVLKSSTPTPRSDMPTPGTSATPGLRPGLGKPPAMEPLVNQAAAGLRTPLAVPGPYPAPFGMVPHAGMNGELTSPGAAYAGLHSMSPQMSAAAAAAAAAVVAYGRSPMVGFDPPPHMRVPSIPPNLAGIPGGKPAYSFHVTADGQMQPVPFPPDALIGPGIPRHARQINTLNHGEVVCAVTISNPTRHVYTGGKGCVKVWDISHPGNKSPVSQLDCLNRDNYIRSCKLLPDGCTLIVGGEASTLSIWDLAAPTPRIKAELTSSAPACYALAISPDSKVCFSCCSDGNIAVWDLHNQTLVRQFQGHTDGASCIDISNDGTKLWTGGLDNTVRSWDLREGRQLQQHDFTSQIFSLGYCPTGEWLAVGMESSNVEVLHVNKPDKYQLHLHESCVLSLKFAYCGKWFVSTGKDNLLNAWRTPYGASIFQSKESSSVLSCDISVDDKYIVTGSGDKKATVYEVIY |
| 3566 | sp|Q9ESE2|TNF11\_RAT | MRRANRDYGKYLRGSEEMGSCPGVPHEGPLHPAPSAPAPAPPPAASRFMFLALLGLGLGQVVCSIALFLYFRAQMDPNRISEDSTRCFYRILRLRENTGLQDSTLESEDTEALPDSCRRMKQAFQGAVQRELQHIVGPQRFSGVPAMMEGSWLDVARRGKPEAQPFAHLTINAADIPSGSHKVSLSSWYHDRGWAKISNMTLSNGKLRVNQDGFYYLYANICFRHHETSGSVPADYLQLMVYVVKTSIKIPSSHNLMKGGSTKNWSGNSEFHFYSINVGGFFKLRAGEEISVQVSNPSLLDPDQDATYFGAFKVQDID |
| 3567 | sp|P26342|TGBR3\_RAT | MAVTSHHMIPVMVVLMSACLATAGPEPSTRCELSPINASHPVQALMESFTVLSGCASRGTTGLPREVHVLNLRSTDQGPGQRQREVTLHLNPIASVHTHHKPIVFLLNSPQPLVWHLKTERLAAGVPRLFLVSEGSVVQFPSGNFSLTAETEERNFPQENEHLLRWAQKEYGAVTSFTELKIARNIYIKVGEDQVFPPTCNIGKNFLSLNYLAEYLQPKAAEGCVLPSQPHEKEVHIIELITPSSNPYSAFQVDIIVDIRPAQEDPEVVKNLVLILKCKKSVNWVIKSFDVKGNLKVIAPNSIGFGKESERSMTMTKLVRDDIPSTQENLMKWALDNGYRPVTSYTMAPVANRFHLRLENNEEMRDEEVHTIPPELRILLDPDHPPALDNPLFPGEGSPNGGLPFPFPDIPRRGWKEGEDRIPRPKQPIVPSVQLLPDHREPEEVQGGVDIALSVKCDHEKMVVAVDKDSFQTNGYSGMELTLLDPSCKAKMNGTHFVLESPLNGCGTRHRRSTPDGVVYYNSIVVQAPSPGDSSGWPDGYEDLESGDNGFPGDGDEGETAPLSRAGVVVFNCSLRQLRNPSGFQGQLDGNATFNMELYNTDLFLVPSPGVFSVAENEHVYVEVSVTKADQDLGFAIQTCFLSPYSNPDRMSDYTIIENICPKDDSVKFYSSKRVHFPIPHAEVDKKRFSFLFKSVFNTSLLFLHCELTLCSRKKGSLKLPRCVTPDDACTSLDATMIWTMMQNKKTFTKPLAVVLQVDYKENVPSTKDSSPIPPPPPQIFHGLDTLTVMGIAFAAFVIGALLTGALWYIYSHTGETARRQQVPTSPPASENSSAAHSIGSTQSTPCSSSSTA |
| 3568 | sp|Q92563|TICN2\_HUMAN | MRAPGCGRLVLPLLLLAAAALAEGDAKGLKEGETPGNFMEDEQWLSSISQYSGKIKHWNRFRDEVEDDYIKSWEDNQQGDEALDTTKDPCQKVKCSRHKVCIAQGYQRAMCISRKKLEHRIKQPTVKLHGNKDSICKPCHMAQLASVCGSDGHTYSSVCKLEQQACLSSKQLAVRCEGPCPCPTEQAATSTADGKPETCTGQDLADLGDRLRDWFQLLHENSKQNGSASSVAGPASGLDKSLGASCKDSIGWMFSKLDTSADLFLDQTELAAINLDKYEVCIRPFFNSCDTYKDGRVSTAEWCFCFWREKPPCLAELERIQIQEAAKKKPGIFIPSCDEDGYYRKMQCDQSSGDCWCVDQLGLELTGTRTHGSPDCDDIVGFSGDFGSGVGWEDEEEKETEEAGEEAEEEEGEAGEADDGGYIW |
| 3569 | sp|P43273|TGA2\_ARATH | MADTSPRTDVSTDDDTDHPDLGSEGALVNTAASDSSDRSKGKMDQKTLRRLAQNREAARKSRLRKKAYVQQLENSRLKLTQLEQELQRARQQGVFISGTGDQAHSTGGNGALAFDAEHSRWLEEKNKQMNELRSALNAHAGDSELRIIVDGVMAHYEELFRIKSNAAKNDVFHLLSGMWKTPAERCFLWLGGFRSSELLKLLANQLEPMTERQLMGINNLQQTSQQAEDALSQGMESLQQSLADTLSSGTLGSSSSGNVASYMGQMAMAMGKLGTLEGFIRQADNLRLQTLQQMIRVLTTRQSARALLAIHDYFSRLRALSSLWLARPRE |
| 3570 | sp|Q99757|THIOM\_HUMAN | MAQRLLLRRFLASVISRKPSQGQWPPLTSRALQTPQCSPGGLTVTPNPARTIYTTRISLTTFNIQDGPDFQDRVVNSETPVVVDFHAQWCGPCKILGPRLEKMVAKQHGKVVMAKVDIDDHTDLAIEYEVSAVPTVLAMKNGDVVDKFVGIKDEDQLEAFLKKLIG |
| 3571 | sp|P82874|TO203\_ARATH | MDTETEFDRILLFEQIRQDAENTYKSNPLDADNLTRWGGVLLELSQFHSISDAKQMIQEAITKFEEALLIDPKKDEAVWCIGNAYTSFAFLTPDETEAKHNFDLATQFFQQAVDEQPDNTHYLKSLEMTAKAPQLHAEAYKQGLGSQPMGRVEAPAPPSSKAVKNKKSSDAKYDAMGWVILAIGVVAWISFAKANVPVSPPR |
| 3572 | sp|Q9H5Q4|TFB2M\_HUMAN | MWIPVVGLPRRLRLSALAGAGRFCILGSEAATRKHLPARNHCGLSDSSPQLWPEPDFRNPPRKASKASLDFKRYVTDRRLAETLAQIYLGKPSRPPHLLLECNPGPGILTQALLEAGAKVVALESDKTFIPHLESLGKNLDGKLRVIHCDFFKLDPRSGGVIKPPAMSSRGLFKNLGIEAVPWTADIPLKVVGMFPSRGEKRALWKLAYDLYSCTSIYKFGRIEVNMFIGEKEFQKLMADPGNPDLYHVLSVIWQLACEIKVLHMEPWSSFDIYTRKGPLENPKRRELLDQLQQKLYLIQMIPRQNLFTKNLTPMNYNIFFHLLKHCFGRRSATVIDHLRSLTPLDARDILMQIGKQEDEKVVNMHPQDFKTLFETIERSKDCAYKWLYDETLEDR |
| 3573 | sp|Q53FP2|TM35A\_HUMAN | MASPRTVTIVALSVALGLFFVFMGTIKLTPRLSKDAYSEMKRAYKSYVRALPLLKKMGINSILLRKSIGALEVACGIVMTLVPGRPKDVANFFLLLLVLAVLFFHQLVGDPLKRYAHALVFGILLTCRLLIARKPEDRSSEKKPLPGNAEEQPSLYEKAPQGKVKVS |
| 3574 | sp|P13805|TNNT1\_HUMAN | MSDTEEQEYEEEQPEEEAAEEEEEAPEEPEPVAEPEEERPKPSRPVVPPLIPPKIPEGERVDFDDIHRKRMEKDLLELQTLIDVHFEQRKKEEEELVALKERIERRRSERAEQQRFRTEKERERQAKLAEEKMRKEEEEAKKRAEDDAKKKKVLSNMGAHFGGYLVKAEQKRGKRQTGREMKVRILSERKKPLDIDYMGEEQLRARSAWLPPSQPSCPAREKAQELSDWIHQLESEKFDLMAKLKQQKYEINVLYNRISHAQKFRKGAGKGRVGGRWK |
| 3575 | sp|P40142|TKT\_MOUSE | MEGYHKPDQQKLQALKDTANRLRISSIQATTAAGSGHPTSCCSAAEIMAVLFFHTMRYKALDPRNPHNDRFVLSKGHAAPILYAVWAEAGFLPEAELLNLRKISSDLDGHPVPKQAFTDVATGSLGQGLGAACGMAYTGKYFDKASYRVYCMLGDGEVSEGSVWEAMAFAGIYKLDNLVAIFDINRLGQSDPAPLQHQVDIYQKRCEAFGWHTIIVDGHSVEELCKAFGQAKHQPTAIIAKTFKGRGITGIEDKEAWHGKPLPKNMAEQIIQEIYSQVQSKKKILATPPQEDAPSVDIANIRMPTPPSYKVGDKIATRKAYGLALAKLGHASDRIIALDGDTKNSTFSELFKKEHPDRFIECYIAEQNMVSIAVGCATRDRTVPFCSTFAAFFTRAFDQIRMAAISESNINLCGSHCGVSIGEDGPSQMALEDLAMFRSVPMSTVFYPSDGVATEKAVELAANTKGICFIRTSRPENAIIYSNNEDFQVGQAKVVLKSKDDQVTVIGAGVTLHEALAAAESLKKDKISIRVLDPFTIKPLDRKLILDSARATKGRILTVEDHYYEGGIGEAVSAAVVGEPGVTVTRLAVSQVPRSGKPAELLKMFGIDKDAIVQAVKGLVTKG |
| 3576 | sp|Q6UX40|TM107\_HUMAN | MGRVSGLVPSRFLTLLAHLVVVITLFWSRDSNIQACLPLTFTPEEYDKQDIQLVAALSVTLGLFAVELAGFLSGVSMFNSTQSLISIGAHCSASVALSFFIFERWECTTYWYIFVFCSALPAVTEMALFVTVFGLKKKPF |
| 3577 | sp|Q80WY6|TNR1B\_RAT | MAPAALWVALVVELQLWATGHTVPAKVVLTPYKPEPGNQCQISQEYYDKKAQMCCAKCPPGQYAKHFCNKTSDTVCADCAAGMFTQVWNHLHTCLSCSSSCSDDQVETHNCTKKQNRVCACNADSYCALKLHSGNCRQCMKLSKCGPGFGVARSRTSNGNVICSACAPGTFSDTTSSTDVCRPHRICSILAIPGNASTDAVCASESPTPSAVPRTIYVSQPEPTRSQPMDQEPGPSQTPHIPVSLGSTPIIEPSITGGISLPIGLIVGLTTLGLLMLGLANCFILVQRKKKPSCLQRETMVPHLPDDKSQDAIGLEQQHLLTTAPSSSSSSLESSASAGDRRAPPGGHPQARVTAEAQGSQEACAGSRSSDSSHGSHGTHVNVTCIVNVCSSSDHSSQCSSQASTTVGDPDANPSGSPKDEQVPFSQEECPSQSQWETTETLQNHDKPFPLGVPDVGMKPNQPGWYDQIAVKVP |
| 3578 | sp|Q9H6L2|TM231\_HUMAN | MALYELFSHPVERSYRAGLCSKAALFLLLAAALTYIPPLLVAFRSHGFWLKRSSYEEQPTVRFQHQVLLVALLGPESDGFLAWSTFPAFNRLQGDRLRVPLVSTREEDRNQDGKTDMLHFKLELPLQSTEHVLGVQLILTFSYRLHRMATLVMQSMAFLQSSFPVPGSQLYVNGDLRLQQKQPLSCGGLDARYNISVINGTSPFAYDYDLTHIVAAYQERNVTTVLNDPNPIWLVGRAADAPFVINAIIRYPVEVISYQPGFWEMVKFAWVQYVSILLIFLWVFERIKIFVFQNQVVTTIPVTVTPRGDLCKEHLS |
| 3579 | sp|Q9H2S6|TNMD\_HUMAN | MAKNPPENCEDCHILNAEAFKSKKICKSLKICGLVFGILALTLIVLFWGSKHFWPEVPKKAYDMEHTFYSNGEKKKIYMEIDPVTRTEIFRSGNGTDETLEVHDFKNGYTGIYFVGLQKCFIKTQIKVIPEFSEPEEEIDENEEITTTFFEQSVIWVPAEKPIENRDFLKNSKILEICDNVTMYWINPTLISVSELQDFEEEGEDLHFPANEKKGIEQNEQWVVPQVKVEKTRHARQASEEELPINDYTENGIEFDPMLDERGYCCIYCRRGNRYCRRVCEPLLGYYPYPYCYQGGRVICRVIMPCNWWVARMLGRV |
| 3580 | sp|P15565|TRM1\_YEAST | MEGFFRIPLKRANLHGMLKAAISKIKANFTAYGAPRINIEDFNIVKEGKAEILFPKKETVFYNPIQQFNRDLSVTCIKAWDNLYGEECGQKRNNKKSKKKRCAETNDDSSKRQKMGNGSPKEAVGNSNRNEPYINILEALSATGLRAIRYAHEIPHVREVIANDLLPEAVESIKRNVEYNSVENIVKPNLDDANVLMYRNKATNNKFHVIDLDPYGTVTPFVDAAIQSIEEGGLMLVTCTDLSVLAGNGYPEKCFALYGGANMVSHESTHESALRLVLNLLKQTAAKYKKTVEPLLSLSIDFYVRVFVKVKTSPIEVKNVMSSTMTTYHCSRCGSYHNQPLGRISQREGRNNKTFTKYSVAQGPPVDTKCKFCEGTYHLAGPMYAGPLHNKEFIEEVLRINKEEHRDQDDTYGTRKRIEGMLSLAKNELSDSPFYFSPNHIASVIKLQVPPLKKVVAGLGSLGFECSLTHAQPSSLKTNAPWDAIWYVMQKCDDEKKDLSKMNPNTTGYKILSAMPGWLSGTVKSEYDSKLSFAPNEQSGNIEKLRKLKIVRYQENPTKNWGPKARPNTS |
| 3581 | sp|Q9FIQ5|TRN2\_ARATH | MPLSNNVIGCINFITVLLSIPVIGAGIWLAIGTVNSCVKLLQWPVIILGVLILLVGLAGFIGGFWRITWLLVVYLIAMLILIVLLGCLVGFIYMVTIRGSGHPEPSRAYLEYSLQDFSGWLRRRVQRSYKWERIRTCLSTTTICPELNQRYTLAQDFFNAHLDPIQSGCCKPPTKCGFTFVNPTYWISPIDMSADMDCLNWSNDQNTLCYTCDSCKAGLLANIKVDWLKADIFLLLALIGLIIVYIIGCCAFRNAETEDIFRKYKQGYT |
| 3582 | sp|Q01879|TOP2\_PICGU | MSSFESDSASDAESAFSDASSDFTPSSSVKSKGKVPLRDSTNTTAQPSAPATGDASDQYQKLSQLEHILKRPDTYIGSVEKTGVEMWSFDAATESMIYKEVHIVPGLYKIFDEILVNAADNKIRDPSMRNIKVNIDAENNTISVMNDGKGIPIEIHKKEKIYIPELIFGNLLTSSNYDDDEKKVTGGRNGYGAKLCNIFSTEFVLETADLNTSQVYKQTWTNNMANLTKPKITKLKSKKEYTKVTFKPDLSKFHMEMLDDDILSVLRRRVYDLCGTVKDCNIYLNDKKLSIRNFKSYVEMYVNAIRERSPDPVAPEGETRNYSTIVHEVFNDRWEVAFAVSDGSFNQVSFVNSIATTSGGTHVKYVSDQIITKLIDALTKKEKGKKKLNIKPQEVRNNMFVFINCLIENPAFTSQTKEQLTTRVAQFGGKPSEKIVISDQFIAKILKTSIADKIRTIVNANEDKEMSKADGSRKSRIKNQVKLVDANKAGTKEGYKCTLILTEGDSAMPLAVAGLTVVGRDYYGCFPLRGKLLNVREASIEQVSKNAEINSIKQIMGLQHKKRYTPENIKSLRYGHIMIMTDQDQDGSHIKGLIINFLETSFPGLLEIPGFLLEFITPIVKVTITGRGNHRVIPFYNMPEFEKWRETEGTTCKWKHKYFKGLGTSLESEGREYFAALDRHMKSFHALQDGDSQYIDMAFSKKKADERKDWLQAFRPGTHLDPQIREIPISEFINKELILFSMADNVRSIPSILDGFKPGQRKVLYGCFKRNLRSEIKVAQLVGYISEHTGYHHGEGSLAQTIVGLAQNFVGANNLNLLQPIGLFGSRAAGGKDFSAVRYIHTNITDLTRVIFNPLDDDLYTYVQDDAQTVEPEAYLPIIPMLLVNGAEGIGTGWSTNIPSFNPVDIVANIRRMMNGEEPVDMTPWFKGWEGDLERISPEKYKVSGKIEQVDDDTVEITEIPIKTWTNSVKEFLLAGLGNDKPWIKDMEEQHGINIRFVVRLSKEEMDKSLRMGLLERFKLISSISLSNMVAFDPQGRIKKYSSANEILKDYYWARLELYQRRKDMMAENFQNQLTRLSEQARFIKLIIEKKLTIANKKRSEMVDDLKKLKFTRFNKNGKPVHDEPLVEAEELAEEEEEAAGDISQLNLGLVAPEDESQYKPETTYSQYDYLLGMAIWSLTRERYEKLLRQRDEKQEELNELLKKSAKDLWNSDLDDFLVGWEEFLRADIEARNSFGPTAKTSTRKRARKSTKSEPAQKKTKSSTPKASTPTIKAEATPAQPVVKEETNKQPDLLSFFSKEPSVAKTVSAAPPKRKTPKSKPKKEIVSLFSDSSDDDITSFSVGDAKPTPKPSTNNILDELEDLKSSTFTPKVGAAGRRRPKSYALAESDGNESDEDYMSE |
| 3583 | sp|P04268|TPM1\_CHICK | MDAIKKKMQMLKLDKENALDRAEQAEADKKAAEERSKQLEDELVALQKKLKGTEDELDKYSESLKDAQEKLELADKKATDAESEVASLNRRIQLVEEELDRAQERLATALQKLEEAEKAADESERGMKVIENRAQKDEEKMEIQEIQLKEAKHIAEEADRKYEEVARKLVIIEGDLERAEERAELSESKCAELEEELKTVTNNLKSLEAQAEKYSQKEDKYEEEIKVLTDKLKEAETRAEFAERSVTKLEKSIDDLEDELYAQKLKYKAISEELDHALNDMTSI |
| 3584 | sp|Q62739|RAB3I\_RAT | MANDPLEGFHEVNLASPTSPDLLGVCDPGTQEQTTSPSVIYRPHPSTLCSATIQANALNLSDLPTQPVYSSPRHLNCAEISNISIHVPEPASSVASEVAAGLTRFTSRKDSCNAEREFLQGATVTEASAGNDDIFGLSTDSLSRLRSPSVLEVREKGYERLKEELAKAQRELKLKDEECERLSKVRDQLGQELEELTASLFEEAHKMVREANVKQATAEKQLKEAQGKIDVLQAEVAALKTLVLSSSPTSPTQEPLADGKTPFKGGHTRNKSTSSAMSGSHQDFSAIQAIVKDCREADLSLYNEFRSWKDEPTMDRTCPFLDKIYQEDIFPCLTFAKSELASAVLEAVENNTLSIEPVGLQPIRFVKASAVECGGPKKCALTGQSKPCKHRIKLGDSSSYYYISPVCRYRITSVCNFFTYIRYIQQGLVKQQDVDQMFWEVMQLRKEMSLAKLGYFKEEL |
| 3585 | sp|Q9BRP8|PYM1\_HUMAN | MEAAGSPAATETGKYIASTQRPDGTWRKQRRVKEGYVPQEEVPVYENKYVKFFKSKPELPPGLSPEATAPVTPSRPEGGEPGLSKTAKRNLKRKEKRRQQQEKGEAEALSRTLDKVSLEETAQLPSAPQGSRAAPTAASDQPDSAATTEKAKKIKNLKKKLRQVEELQQRIQAGEVSQPSKEQLEKLARRRALEEELEDLELGL |
| 3586 | sp|Q8N1G1|REXO1\_HUMAN | MLRSTGFFRAIDCPYWSGAPGGPCRRPYCHFRHRGARGSGAPGDGGEAPPAAGLGYDPYNPELPKPPAQRENGTLGLGEEPRPDVLELELVNQAIEAVRSEVELEQRRYRELLETTREHRSAEAPALAPRGPNASPTVGPDEDAFPLAFDYSPGSHGLLSPDAGYQPTPLAAPAEPGSKYSLASLDRGQGRGGGGGGALEYVPKAVSQPRRHSRPVPSGKYVVDNSRPPTDLEYDPLSNYSARHLSRASSRDERAAKRPRGSRGSEPYTPAPKKLCDPFGSCDARFSDSEDEAATVPGNEPTTASTPKARADPEIKATGQPPSKEGLEAEGGGLRETKETAVQCDVGDLQPPPAKPASPAQVQSSQDGGCPKEGKPKKKKTGAPPAPSCKDGAQGKDKTKDKGRGRPVEKPRADKKGPQASSPRRKAERPEGTKKKPSSATPVATSGKGRPDRPARRPSPTSGDSRPAAGRGPPRPLQLPDRKSTKAPSGKLVERKARSLDEGASQDAPKLKKRALSHADLFGDESEDEAAGPGVPSVWPSALPSLSSDSDSDSDSSLGFPEAQGPPKRLKASPPPSPAPSSSSSSSSSTSSAGADVDYSALEKEVDFDSDPMEECLRIFNESTSVKTEDRGRLARQPPKEEKSEEKGLSGLTTLFPGQKRRISHLSKQGQEVEPPRRGPAVPPARPPTAQEVCYLRAQQAQRASASLLQAPARLAEKSPSVHISAPGEKRRIAHIPNPRLAAAPTGAKRTLAASGSQSSNGPEPGGQQLKTRTLSGMASKTTTTIIPKRIAHSPSLQSLKKPIIPKEFGGKVPTVIRQRYLNLFIEECLKFCTSNQEAIEKALNEEKVAYDRSPSKNIYLNVAVNTLKKLRGLAPSAVPGLSKTSGRRVVSHEVVLGGRLAAKTSFSLSRPSSPRVEDLKGAALYSRLREYLLTQDQLKENGYPFPHPERPGGAIIFTAEEKRPKDSSCRTCCRCGTEYLVSSSGRCIRDEECYYHWGRLRRNRVAGGWETQYMCCSAAAGSVGCQVAKQHVQDGRKERLEGFVKTFEKELSGDTHPGIYALDCEMSYTTYGLELTRVTVVDTDVHVVYDTFVKPDNEIVDYNTRFSGVTEADLADTSVTLRDVQAVLLSMFSADTILIGHSLESDLLALKVIHSTVVDTSVLFPHRLGLPYKRSLRNLMADYLRQIIQDNVDGHSSSEDAGACMHLVIWKVREDAKTKR |
| 3587 | sp|Q9QYF1|RDH11\_MOUSE | MFGFLLLLSLPFILYLVTPKIRKMLSSGVCTSNVQLPGKVAIVTGANTGIGKETAKDLAQRGARVYLACRDVDKGELAAREIQAVTGNSQVFVRKLDLADTKSIRAFAKDFLAEEKHLHLLINNAGVMMCPYSKTADGFEMHIGVNHLGHFLLTHLLLEKLKESAPSRIVNLSSLGHHLGRIHFHNLQGEKFYSAGLAYCHSKLANILFTKELAKRLKGSGVTTYSVHPGTVHSELTRYSSIMRWLWQLFFVFIKTPQEGAQTSLYCALTEGLESLSGSHFSDCQLAWVSYQGRNEIIARRLWDVSCDLLGLPVDW |
| 3588 | sp|Q4V898|RBMX\_RAT | MVEADRPGKLFIGGLNTETNEKALEAVFGKYGRIVEVLLMKDRETNKSRGFAFVTFESPADAKDAARDMNGKSLDGKAIKVEQATKPSFESGRRGLPPPPRSRGPPRGLRGGRGGSGGTRGPPSRGGHMDDGGYSMNFTLSSSRGPLPVKRGPPPRSGGPPPKRSAPSGPVRSSSGMGGRAPVSRGRDGYGGPPRREPLPSRRDVYLSPRDDGYSTKDSYSSRDYPSSRDTRDYAPPPRDYTYRDYGHSSSRDDYPSRGYSDRDGYGRERDYSDHPSGGSYRDSYESYGNSRSAPPTRGPPPSYGGSSRYDDYSSSRDGYGGSRDSYTSSRSDLYSSGRDRVGRQERGLPPSMERGYPPPRDSYSSSSRGAPRGGGRGGSRSDRGGRSRY |
| 3589 | sp|P54727|RD23B\_HUMAN | MQVTLKTLQQQTFKIDIDPEETVKALKEKIESEKGKDAFPVAGQKLIYAGKILNDDTALKEYKIDEKNFVVVMVTKPKAVSTPAPATTQQSAPASTTAVTSSTTTTVAQAPTPVPALAPTSTPASITPASATASSEPAPASAAKQEKPAEKPAETPVATSPTATDSTSGDSSRSNLFEDATSALVTGQSYENMVTEIMSMGYEREQVIAALRASFNNPDRAVEYLLMGIPGDRESQAVVDPPQAASTGAPQSSAVAAAAATTTATTTTTSSGGHPLEFLRNQPQFQQMRQIIQQNPSLLPALLQQIGRENPQLLQQISQHQEHFIQMLNEPVQEAGGQGGGGGGGSGGIAEAGSGHMNYIQVTPQEKEAIERLKALGFPEGLVIQAYFACEKNENLAANFLLQQNFDED |
| 3590 | sp|O75452|RDH16\_HUMAN | MWLYLAVFVGLYYLLHWYRERQVLSHLRDKYVFITGCDSGFGKLLARQLDARGLRVLAACLTEKGAEQLRGQTSDRLETVTLDVTKTESVAAAAQWVKECVRDKGLWGLVNNAGISLPTAPNELLTKQDFVTILDVNLLGVIDVTLSLLPLVRRARGRVVNVSSVMGRVSLFGGGYCISKYGVEAFSDSLRRELSYFGVKVAMIEPGYFKTAVTSKERFLKSFLEIWDRSSPEVKEAYGEKFVADYKKSAEQMEQKCTQDLSLVTNCMEHALIACHPRTRYSAGWDAKLLYLPMSYMPTFLVDAIMYWVSPSPAKAL |
| 3591 | sp|O39521|REPA\_BEYDV | MPSASKNFRLQSKYVFLTYPKCSSQRDDLFQFLWEKLTPFLIFFLGVASELHQDGTTHYHALIQLDKKPCIRDPSFFDFEGNHPNIQPARNSKQVLDYISKDGDIKTRGDFRDHKVSPRKSDARWRTIIQTATSKEEYLDMIKEEFPHEWATKLQWLEYSANKLFPPQPEQYVSPFTESDLRCHEDLHNWRETHLYHVSIDAYTFIHPVSYDQAQSDLEWMADLTRMREGLGSDTPASTSADQLVPERPPGLEVSGDTTTGTGPSTSPTTMNTPPIISSTTSPSSSSHCGSN |
| 3592 | sp|Q15311|RBP1\_HUMAN | MTECFLPPTSSPSEHRRVEHGSGLTRTPSSEEISPTKFPGLYRTGEPSPPHDILHEPPDVVSDDEKDHGKKKGKFKKKEKRTEGYAAFQEDSSGDEAESPSKMKRSKGIHVFKKPSFSKKKEKDFKIKEKPKEEKHKEEKHKEEKHKEKKSKDLTAADVVKQWKEKKKKKKPIQEPEVPQIDVPNLKPIFGIPLADAVERTMMYDGIRLPAVFRECIDYVEKYGMKCEGIYRVSGIKSKVDELKAAYDREESTNLEDYEPNTVASLLKQYLRDLPENLLTKELMPRFEEACGRTTETEKVQEFQRLLKELPECNYLLISWLIVHMDHVIAKELETKMNIQNISIVLSPTVQISNRVLYVFFTHVQELFGNVVLKQVMKPLRWSNMATMPTLPETQAGIKEEIRRQEFLLNCLHRDLQGGIKDLSKEERLWEVQRILTALKRKLREAKRQECETKIAQEIASLSKEDVSKEEMNENEEVINILLAQENEILTEQEELLAMEQFLRRQIASEKEEIERLRAEIAEIQSRQQHGRSETEEYSSESESESEDEEELQIILEDLQRQNEELEIKNNHLNQAIHEEREAIIELRVQLRLLQMQRAKAEQQAQEDEEPEWRGGAVQPPRDGVLEPKAAKEQPKAGKEPAKPSPSRDRKETSI |
| 3593 | sp|O00559|RCAS1\_HUMAN | MAITQFRLFKFCTCLATVFSFLKRLICRSGRGRKLSGDQITLPTTVDYSSVPKQTDVEEWTSWDEDAPTSVKIEGGNGNVATQQNSLEQLEPDYFKDMTPTIRKTQKIVIKKREPLNFGIPDGSTGFSSRLAATQDLPFIHQSSELGDLDTWQENTNAWEEEEDAAWQAEEVLRQQKLADREKRAAEQQRKKMEKEAQRLMKKEQNKIGVKLS |
| 3594 | sp|P62492|RB11A\_MOUSE | MGTRDDEYDYLFKVVLIGDSGVGKSNLLSRFTRNEFNLESKSTIGVEFATRSIQVDGKTIKAQIWDTAGQERYRAITSAYYRGAVGALLVYDIAKHLTYENVERWLKELRDHADSNIVIMLVGNKSDLRHLRAVPTDEARAFAEKNGLSFIETSALDSTNVEAAFQTILTEIYRIVSQKQMSDRRENDMSPSNNVVPIHVPPTTENKPKVQCCQNI |
| 3595 | sp|O94762|RECQ5\_HUMAN | MSSHHTTFPFDPERRVRSTLKKVFGFDSFKTPLQESATMAVVKGNKDVFVCMPTGAGKSLCYQLPALLAKGITIVVSPLIALIQDQVDHLLTLKVRVSSLNSKLSAQERKELLADLEREKPQTKILYITPEMAASSSFQPTLNSLVSRHLLSYLVVDEAHCVSQWGHDFRPDYLRLGALRSRLGHAPCVALTATATPQVQEDVFAALHLKKPVAIFKTPCFRANLFYDVQFKELISDPYGNLKDFCLKALGQEADKGLSGCGIVYCRTREACEQLAIELSCRGVNAKAYHAGLKASERTLVQNDWMEEKVPVIVATISFGMGVDKANVRFVAHWNIAKSMAGYYQESGRAGRDGKPSWCRLYYSRNDRDQVSFLIRKEVAKLQEKRGNKASDKATIMAFDALVTFCEELGCRHAAIAKYFGDALPACAKGCDHCQNPTAVRRRLEALERSSSWSKTCIGPSQGNGFDPELYEGGRKGYGDFSRYDEGSGGSGDEGRDEAHKREWNLFYQKQMQLRKGKDPKIEEFVPPDENCPLKEASSRRIPRLTVKAREHCLRLLEEALSSNRQSTRTADEADLRAKAVELEHETFRNAKVANLYKASVLKKVADIHRASKDGQPYDMGGSAKSCSAQAEPPEPNEYDIPPASHVYSLKPKRVGAGFPKGSCPFQTATELMETTRIREQAPQPERGGEHEPPSRPCGLLDEDGSEPLPGPRGEVPGGSAHYGGPSPEKKAKSSSGGSSLAKGRASKKQQLLATAAHKDSQSIARFFCRRVESPALLASAPEAEGACPSCEGVQGPPMAPEKYTGEEDGAGGHSPAPPQTEECLRERPSTCPPRDQGTPEVQPTPAKDTWKGKRPRSQQENPESQPQKRPRPSAKPSVVAEVKGSVSASEQGTLNPTAQDPFQLSAPGVSLKEAANVVVKCLTPFYKEGKFASKELFKGFARHLSHLLTQKTSPGRSVKEEAQNLIRHFFHGRARCESEADWHGLCGPQR |
| 3596 | sp|Q96I51|RCC1L\_HUMAN | MALVALVAGARLGRRLSGPGLGRGHWTAARRSRSRREAAEAEAEVPVVQYVGERAARADRVFVWGFSFSGALGVPSFVVPSSGPGPRAGARPRRRIQPVPYRLELDQKISSAACGYGFTLLSSKTADVTKVWGMGLNKDSQLGFHRSRKDKTRGYEYVLEPSPVSLPLDRPQETRVLQVSCGRAHSLVLTDREGVFSMGNNSYGQCGRKVVENEIYSESHRVHRMQDFDGQVVQVACGQDHSLFLTDKGEVYSCGWGADGQTGLGHYNITSSPTKLGGDLAGVNVIQVATYGDCCLAVSADGGLFGWGNSEYLQLASVTDSTQVNVPRCLHFSGVGKVRQAACGGTGCAVLNGEGHVFVWGYGILGKGPNLVESAVPEMIPPTLFGLTEFNPEIQVSRIRCGLSHFAALTNKGELFVWGKNIRGCLGIGRLEDQYFPWRVTMPGEPVDVACGVDHMVTLAKSFI |
| 3597 | sp|P62834|RAP1A\_HUMAN | MREYKLVVLGSGGVGKSALTVQFVQGIFVEKYDPTIEDSYRKQVEVDCQQCMLEILDTAGTEQFTAMRDLYMKNGQGFALVYSITAQSTFNDLQDLREQILRVKDTEDVPMILVGNKCDLEDERVVGKEQGQNLARQWCNCAFLESSAKSKINVNEIFYDLVRQINRKTPVEKKKPKKKSCLLL |
| 3598 | sp|P83831|RAS1\_DROSI | MTEYKLVVVGAGGVGKSALTIQLIQNHFVDEYDPTIEDSYRKQVVIDGETCLLDILDTAGQEEYSAMRDQYMRTGEGFLLVFAVNSAKSFEDIGTYREQIKRVKDAEEVPMVLVGNKCDLASWNVNNEQAREVAKQYGIPYIETSAKTRMGVDDAFYTLVREIRKDKDNKGRRGRKMNKPNRRFKCKML |
| 3599 | sp|P62490|RB11A\_CANLF | MGTRDDEYDYLFKVVLIGDSGVGKSNLLSRFTRNEFNLESKSTIGVEFATRSIQVDGKTIKAQIWDTAGQERYRAITSAYYRGAVGALLVYDIAKHLTYENVERWLKELRDHADSNIVIMLVGNKSDLRHLRAVPTDEARAFAEKNGLSFIETSALDSTNVEAAFQTILTEIYRIVSQKQMSDRRENDMSPSNNVVPIHVPPTTENKPKVQCCQNI |
| 3600 | sp|P97868|RBBP6\_MOUSE | MSCVHYKFSSKLNYDTVTFDGLHISLCDLKKQIMGREKLKAADSDLQITNAQTKEEYTDDNALIPKNSSVIVRRIPIGGVKSTSKTYVISRTEPVMGTTKAIDDASASISLAQLTKTANLAEANASEEDKIKAMMSQSGHEYDPINYMKKTLVGPPPPSYTCFRCGKPGHYIKNCPTNGDKNFESGPRIKKSTGIPRSFMMEVKDPNMKGAMLTNTGKYAIPTIDAEAYAIGKKEKPPFLPEEPSSSSEEDDPIPDELLCLICKDIMTDAVVIPCCGNSYCDECIRTALLESDEHTCPTCHQNDVSPDALIANKFLRQAVNNFKNETGYTKRLRKQLPPPPPPVPPPRPLMQRNLQPLMRSPISRQQDPLMIPVTSSSAHSAPSISSLTSNPSALAPSVSGNPSSAPAPVPDITATVSISVHSEKSDGPFRDSDNKLLPAAALTSEHSKGASSIAITALMEEKGYQVPVLGTPSLLGQSLLHGQLIPTTGPVRINAARPGGGRPGWEHSNKLGYLVSPPQQIRRGERSCYRSINRGRHHSERSQRTQGPSLPATPVFVPVPPPPLYPPPPHTLPLPPGVPPPQFSPQFPPGQPPPAGYSVPPPGFPPAPANISTPWVSSGVQTAHSNTIPTTQAPPLSREEFYREQRRLKEEEKKKSKLDEFTNDFAKELMEYKKIQKERRRSFSRSKSPYSGSSYSRSSYTYSKSRSGSTRSRSYSRSFSRSHSRSYSRSPPYPRRGRGKSRNYRSRSRSHGYHRSRSRSPPYRRYHSRSRSPQAFRGQSPTKRNVPQGETEREYFNRYREVPPPYDIKAYYGRSVDFRDPFEKERYREWERKYREWYEKYYKGYAVGAQPRPSANREDFSPERLLPLNIRNSPFTRGRREDYAAGQSHRNRNLGGNYPEKLSTRDSHNAKDNPKSKEKESENVPGDGKGNKHKKHRKRRKGEESESFLNPELLETSRKCRESSGIDETKTDTLFVLPSRDDATPVRDEPMDAESITFKSVSDKDKREKDKPKVKSDKTKRKSDGSATAKKDNVLKPSKGPQEKVDGDREKSPRSEPPLKKAKEEATKIDSVKPSSSSQKDEKVTGTPRKAHSKSAKEHQEAKPAKDEKVKKDCSKDIKSEKPASKDEKAKKPEKNKLLDSKGEKRKRKTEEKSVDKDFESSSMKISKVEGTEIVKPSPKRKMEGDVEKLERTPEKDKIASSTTPAKKIKLNRETGKKIGNAENASTTKEPSEKLESTSSKIKQEKVKGKAKRKVAGSEGSSSTLVDYTSTSSTGGSPVRKSEEKTDTKRTVIKTMEEYNNDNTAPAEDVIIMIQVPQSKWDKDDFESEEEDVKTTQPIQSVGKPSSIIKNVTTKPSATAKYTEKESEQPEKLQKLPKEASHELMQHELRSSKGSASSEKGRAKDREHSGSEKDNPDKRKSGAQPDKESTVDRLSEQGHFKTLSQSSKETRTSEKHESVRGSSNKDFTPGRDKKVDYDSRDYSSSKRRDERGELARRKDSPPRGKESLSGQKSKLREERDLPKKGAESKKSNSSPPRDKKPHDHKAPYETKRPCEETKPVDKNSGKEREKHAAEARNGKESSGGKLPCIPNPPDPPMEKELAAGQVEKSAVKPKPQLSHSSRLSSDLTRETDEAAFEPDYNESDSESNVSVKEEEAVASISKDLKEKTTEKAKESLTVATASQPGADRSQSQSSPSVSPSRSHSPSGSQTRSHSSSASSAGSQDSKKKKKKKEKKKHKKHKKHKKHKKHAGADGDVEKSQKHKHKKKKAKKNKDKEKEKDDQKVRSVTV |
| 3601 | sp|Q13702|RAPSN\_HUMAN | MGQDQTKQQIEKGLQLYQSNQTEKALQVWTKVLEKSSDLMGRFRVLGCLVTAHSEMGRYKEMLKFAVVQIDTARELEDADFLLESYLNLARSNEKLCEFHKTISYCKTCLGLPGTRAGAQLGGQVSLSMGNAFLGLSVFQKALESFEKALRYAHNNDDAMLECRVCCSLGSFYAQVKDYEKALFFPCKAAELVNNYGKGWSLKYRAMSQYHMAVAYRLLGRLGSAMECCEESMKIALQHGDRPLQALCLLCFADIHRSRGDLETAFPRYDSAMSIMTEIGNRLGQVQALLGVAKCWVARKALDKALDAIERAQDLAEEVGNKLSQLKLHCLSESIYRSKGLQRELRAHVVRFHECVEETELYCGLCGESIGEKNSRLQALPCSHIFHLRCLQNNGTRSCPNCRRSSMKPGFV |
| 3602 | sp|Q9BRR9|RHG09\_HUMAN | MLSSRWWPSSWGILGLGPRSPPRGSQLCALYAFTYTGADGQQVSLAEGDRFLLLRKTNSDWWLARRLEAPSTSRPIFVPAAYMIEESIPSQSPTTVIPGQLLWTPGPKLFHGSLEELSQALPSRAQASSEQPPPLPRKMCRSVSTDNLSPSLLKPFQEGPSGRSLSQEDLPSEASASTAGPQPLMSEPPVYCNLVDLRRCPRSPPPGPACPLLQRLDAWEQHLDPNSGRCFYINSLTGCKSWKPPRRSRSETNPGSMEGTQTLKRNNDVLQPQAKGFRSDTGTPEPLDPQGSLSLSQRTSQLDPPALQAPRPLPQLLDDPHEVEKSGLLNMTKIAQGGRKLRKNWGPSWVVLTGNSLVFYREPPPTAPSSGWGPAGSRPESSVDLRGAALAHGRHLSSRRNVLHIRTIPGHEFLLQSDHETELRAWHRALRTVIERLVRWVEARREAPTGRDQGSGDRENPLELRLSGSGPAELSAGEDEEEESELVSKPLLRLSSRRSSIRGPEGTEQNRVRNKLKRLIAKRPPLQSLQERGLLRDQVFGCQLESLCQREGDTVPSFLRLCIAAVDKRGLDVDGIYRVSGNLAVVQKLRFLVDRERAVTSDGRYVFPEQPGQEGRLDLDSTEWDDIHVVTGALKLFLRELPQPLVPPLLLPHFRAALALSESEQCLSQIQELIGSMPKPNHDTLRYLLEHLCRVIAHSDKNRMTPHNLGIVFGPTLFRPEQETSDPAAHALYPGQLVQLMLTNFTSLFP |
| 3603 | sp|Q9JIS1|RIMS2\_RAT | MSAPLGPRGRPAPTPAASQPPPQPEMPDLSHLTEEERKIIQAVMDRQKKEEEKEQSVLKKLHQQFEMYKEQVKKMGEESQQQQEQKGDAPTCGICHKTKFADGCGHNCSYCQTKFCARCGGRVSLRSNKVMWVCNLCRKQQEILTKSGAWFYNSGSNTPQQPDQKALRGLRSEEAPQEKKAKLHEQTQFQGPPGDSSVPAVERGRAHGLTRQDSIKNGSGMKHQIASDMPSDRKRSPSVSRDQNRRYDQSEEREEYSQYVPSDSTMPRSPSDYADRRSQREPQFYEEPDHLNYRDSNRRGHRHSKEYIVDDEDVESRDEYERQRREEEYQARYRSDPNLARYPVKPQPYEEQMRIHAEVSRARHERRHSDVSLANAELEDSRISLLRMDRPSRQRSVSERRAAMENQRSYSMERTREAQGQSSYPQRTTNHSPPTPRRSPIPLDRPELRRADSLRKQHHLDPSSAVRKTKREKMETMLRNDSLSSDQSESVRPPPPRPHKSKKGGKMRQVSLSSSEEELASTPEYTSCDDVEIESESVGEKGDMEYSWLEHASWHSSEASPMSLHPVTWQPSKDGDRLIGRILLNKRLKDGSVPRDSGAMLGLKVVGGKMTESGRLCAFITKVKKGSLADTVGHLRPGDEVLEWNGRLLQGATFEEVYNIILESKPEPQVELVVSRPIGDMPRIPDSTHAQLESSSSSFESQKMDRPSISVTSPMSPGMLRDVPQFLSGQLSSQSLSRRTTPFVPRVQIKLWFDKVGHQLIVTILGAKDLPSREDGRPRNPYVKIYFLPDRSDKNKRRTKTVKKTLEPKWNQTFIYSPVHRREFRERMLEITLWDQARVREEESEFLGEILIELETALLDDEPHWYKLQTHDVSSLPLPHPSPYMPRRQLHGESPTRRLQRSKRISDSEVSDYDCEDGVGVVSDYRHDGRDLQSSTLSVPEQVMSSNHCSPSGSPHRVDVIGRTRSWSPSVPPPQRNVEQGLRGTRATGHYNTISRMDRHRVMDDHYSSERDSHFLTLPRSRHRQTSEHHHRDGRDCEAADRQPYHRSRSTEQRPLLERTTTRSRSSERADTNLMRSMPSLMTGRSAPPSPALSRSHPRTGSVQTSPSSTPVTGRRGRQLPQLPPKGTLERMITEDMDSTRKRNSGAMDIEERNRQMKLNKYKQVAGSDPRLEQDYHSKYRSGWDPHRGADTVSTKSSDSDVSDVSAVSRTSSASRFSSTSYMSVQSERPRGNRKISVFTSKMQSRQMGVSGKSMAKSTSISGDMCSLEKNDGSQSDTAVGALGTSGKKRRSSIGAKMVAIVGLSRKSRSASQLSQTEGGGKKLRSTVQRSTETGLAVEMRNWMTRQASRESTDGSMNSYSSEGNLIFPGVRLASDSQFSDFLDGLGPAQLVGRQTLATPAMGDIQVGMMDKKGQLEVEIIRARGLVVKPGSKTLPAPYVKVYLLDNGVCIAKKKTKVARKTLEPLYQQLLSFEESPQGKVLQIIVWGDYGRMDHKSFMGVAQILLDELELSNMVIGWFKLFPPSSLVDPTLAPLTRRASQSSLESSTGPSYSRS |
| 3604 | sp|Q9VND8|RHEB\_DROME | MPTKERHIAMMGYRSVGKSSLCIQFVEGQFVDSYDPTIENTFTKIERVKSQDYIVKLIDTAGQDEYSIFPVQYSMDYHGYVLVYSITSQKSFEVVKIIYEKLLDVMGKKYVPVVLVGNKIDLHQERTVSTEEGKKLAESWRAAFLETSAKQNESVGDIFHQLLILIENENGNPQEKSGCLVS |
| 3605 | sp|Q8VYC8|RIN2\_ARATH | MGIKYLPVSVASTALSFVGLQVWTELSLDRLRADGLIAKNISLGDSEHALELLLGSYFTIALLTNFVLNVYILLVLSLKTLFFGDLYDVETKKLVERLANYIIYKGTFLPLVIPPTIFQGVLWTVWLTVLCTLKMFQALARDRLERLNASPSSTPWTYFRVYSVLFLVLSVDMFWIKLSLMTYNTIGSAVYLLLLFEPCSIAFETLQALLIHGFQLLDMWINHLAVKNSDCQRSKFIDSMTAGSLLEWKGLLNRNLGFFLDMATLVMALGHYLHIWWLHGIAFHLVDAVLFLNIRALLSAILKRIKGYIKLRIALGALHAALPDATSEELRAYDDECAICREPMAKAKRLHCNHLFHLGCLRSWLDQGLNEVYSCPTCRKPLFVGRTENEVNPRTVEVSSDEQLARQLERQNNPVHALATGLFPAEVPDSVENDTSRNLGLDPSWLQTWSSQGSDVAGPSTTSRTVGLGRVQMMMRHLASVGESYAQTALDDAAWSLWPMNPSQASTSSTTVPPGNGGRTGGLHLRTVSNTTNESLTNILAMAETVREVMPHVPDEIIFQDLQRTNSVAVTVNNLLQM |
| 3606 | sp|Q9VB08|RING1\_DROME | MTSLDPAPNKTWELSLYELQRKPQEVITDSTEIAVSPRSLHSELMCPICLDMLKKTMTTKECLHRFCSDCIVTALRSGNKECPTCRKKLVSKRSLRADPNFDLLISKIYPSREEYEAIQEKVMAKFNQTQSQQALVNSINEGIKLQSQNRPQRFRTKGGGGGGGGGGNGNGAANVAAPPAPGAPTAVGRNASNQMHVHDTASNDSNSNTNSIDRENRDPGHSGTSAASAITSASNAAPSSSANSGASTSATRMQVDDASNPPSVRSTPSPVPSNSSSSKPKRAMSVLTSERSEESESDSQMDCRTEGDSNIDTEGEGNGELGINDEIELVFKPHPTEMSADNQLIRALKENCVRYIKTTANATVDHLSKYLAMRLTLDLGADLPEACRVLNFCIYVAPQPQQLVILNGNQTLHQVNDKFWKVNKPMEMYYSWKKT |
| 3607 | sp|Q6PCD5|RFWD3\_HUMAN | MAHEAMEYDVQVQLNHAEQQPAPAGMASSQGGPALLQPVPADVVSSQGVPSILQPAPAEVISSQATPPLLQPAPQLSVDLTEVEVLGEDTVENINPRTSEQHRQGSDGNHTIPASSLHSMTNFISGLQRLHGMLEFLRPSSSNHSVGPMRTRRRVSASRRARAGGSQRTDSARLRAPLDAYFQVSRTQPDLPATTYDSETRNPVSEELQVSSSSDSDSDSSAEYGGVVDQAEESGAVILEEQLAGVSAEQEVTCIDGGKTLPKQPSPQKSEPLLPSASMDEEEGDTCTICLEQWTNAGDHRLSALRCGHLFGYRCISTWLKGQVRKCPQCNKKARHSDIVVLYARTLRALDTSEQERMKSSLLKEQMLRKQAELESAQCRLQLQVLTDKCTRLQRRVQDLQKLTSHQSQNLQQPRGSQAWVLSCSPSSQGQHKHKYHFQKTFTVSQAGNCRIMAYCDALSCLVISQPSPQASFLPGFGVKMLSTANMKSSQYIPMHGKQIRGLAFSSYLRGLLLSASLDNTIKLTSLETNTVVQTYNAGRPVWSCCWCLDEANYIYAGLANGSILVYDVRNTSSHVQELVAQKARCPLVSLSYMPRAASAAFPYGGVLAGTLEDASFWEQKMDFSHWPHVLPLEPGGCIDFQTENSSRHCLVTYRPDKNHTTIRSVLMEMSYRLDDTGNPICSCQPVHTFFGGPTCKLLTKNAIFQSPENDGNILVCTGDEAANSALLWDAASGSLLQDLQTDQPVLDICPFEVNRNSYLATLTEKMVHIYKWE |
| 3608 | sp|Q07960|RHG01\_HUMAN | MDPLSELQDDLTLDDTSEALNQLKLASIDEKNWPSDEMPDFPKSDDSKSSSPELVTHLKWDDPYYDIARHQIVEVAGDDKYGRKIIVFSACRMPPSHQLDHSKLLGYLKHTLDQYVESDYTLLYLHHGLTSDNKPSLSWLRDAYREFDRKYKKNIKALYIVHPTMFIKTLLILFKPLISFKFGQKIFYVNYLSELSEHVKLEQLGIPRQVLKYDDFLKSTQKSPATAPKPMPPRPPLPNQQFGVSLQHLQEKNPEQEPIPIVLRETVAYLQAHALTTEGIFRRSANTQVVREVQQKYNMGLPVDFDQYNELHLPAVILKTFLRELPEPLLTFDLYPHVVGFLNIDESQRVPATLQVLQTLPEENYQVLRFLTAFLVQISAHSDQNKMTNTNLAVVFGPNLLWAKDAAITLKAINPINTFTKFLLDHQGELFPSPDPSGL |
| 3609 | sp|Q7L804|RFIP2\_HUMAN | MMLSEQAQKWFPTHVQVTVLQAKDLKPKGKSGTNDTYTIIQLGKEKYSTSVAEKTLEPVWKEEASFELPGLLIQGSPEKYILFLIVMHRSLVGLDKFLGQVAINLNDIFEDKQRRKTEWFRLESKQGKRIKNRGEIKVNIQFMRNNMTASMFDLSMKDKTRSPFAKLKDKMKGRKNDGTFSDTSSAIIPSTHMPDANSEFSSGEIQMKSKPKKPFLLGPQRLSSAHSMSDLSGSHMSSEKLKAGTIGQTHLLGHQLDSFGTVPESGSLKSPHRRTLSFDTSKMNQPDSIVDEGELCFGRQNDPFTNVTASLPQKFATLPRKKNPFEESSETWDSSMNLFSKPIEIRKENKREKREKVSLFERVTGKKDSRRSDKLNNGGSDSPCDLKSPNAFSENRQDYFDYESTNPFTAKFRASNIMPSSSFHMSPTSNEDLRKIPDSNPFDATAGYRSLTYEEVLQELVKHKELLRRKDTHIRELEDYIDNLLVRVMEETPSILRVPYEPSRKAGKFSNS |
| 3610 | sp|P35244|RFA3\_HUMAN | MVDMMDLPRSRINAGMLAQFIDKPVCFVGRLEKIHPTGKMFILSDGEGKNGTIELMEPLDEEISGIVEVVGRVTAKATILCTSYVQFKEDSHPFDLGLYNEAVKIIHDFPQFYPLGIVQHD |
| 3611 | sp|Q5JS13|RGPS1\_HUMAN | MYKRNGLMASVLVTSATPQGSSSSDSLEGQSCDYASKSYDAVVFDVLKVTPEEFASQITLMDIPVFKAIQPEELASCGWSKKEKHSLAPNVVAFTRRFNQVSFWVVREILTAQTLKIRAEILSHFVKIAKKLLELNNLHSLMSVVSALQSAPIFRLTKTWALLNRKDKTTFEKLDYLMSKEDNYKRTREYIRSLKMVPSIPYLGIYLLDLIYIDSAYPASGSIMENEQRSNQMNNILRIIADLQVSCSYDHLTTLPHVQKYLKSVRYIEELQKFVEDDNYKLSLRIEPGSSSPRLVSSKEDLAGPSAGSGSARFSRRPTCPDTSVAGSLPTPPVPRHRKSHSLGNNMMCQLSVVESKSATFPSEKARHLLDDSVLESRSPRRGLALTSSSAVTNGLSLGSSESSEFSEEMSSGLESPTGPCICSLGNSAAVPTMEGPLRRKTLLKEGRKPALSSWTRYWVILSGSTLLYYGAKSLRGTDRKHYKSTPGKKVSIVGWMVQLPDDPEHPDIFQLNNPDKGNVYKFQTGSRFHAILWHKHLDDACKSNRPQVPANLMSFE |
| 3612 | sp|P55135|RLMD\_ECOLI | MAQFYSAKRRTTTRQIITVSVNDLDSFGQGVARHNGKTLFIPGLLPQENAEVTVTEDKKQYARAKVVRRLSDSPERETPRCPHFGVCGGCQQQHASVDLQQRSKSAALARLMKHDVSEVIADVPWGYRRRARLSLNYLPKTQQLQMGFRKAGSSDIVDVKQCPILAPQLEALLPKVRACLGSLQAMRHLGHVELVQATSGTLMILRHTAPLSSADREKLERFSHSEGLDLYLAPDSEILETVSGEMPWYDSNGLRLTFSPRDFIQVNAGVNQKMVARALEWLDVQPEDRVLDLFCGMGNFTLPLATQAASVVGVEGVPALVEKGQQNARLNGLQNVTFYHENLEEDVTKQPWAKNGFDKVLLDPARAGAAGVMQQIIKLEPIRIVYVSCNPATLARDSEALLKAGYTIARLAMLDMFPHTGHLESMVLFSRVK |
| 3613 | sp|Q8IUD6|RN135\_HUMAN | MAGLGLGSAVPVWLAEDDLGCIICQGLLDWPATLPCGHSFCRHCLEALWGARDARRWACPTCRQGAAQQPHLRKNTLLQDLADKYRRAAREIQAGSDPAHCPCPGSSSLSSAAARPRRRPELQRVAVEKSITEVAQELTELVEHLVDIVRSLQNQRPLSESGPDNELSILGKAFSSGVDLSMASPKLVTSDTAAGKIRDILHDLEEIQEKLQESVTWKEAPEAQMQGELLEAPSSSSCPLPDQSHPALRRASRFAQWAIHPTFNLKSLSCSLEVSKDSRTVTVSHRPQPYRWSCERFSTSQVLCSQALSSGKHYWEVDTRNCSHWAVGVASWEMSRDQVLGRTMDSCCVEWKGTSQLSAWHMVKETVLGSDRPGVVGIWLNLEEGKLAFYSVDNQEKLLYECTISASSPLYPAFWLYGLHPGNYLIIKQVKV |
| 3614 | sp|P18124|RL7\_HUMAN | MEGVEEKKKEVPAVPETLKKKRRNFAELKIKRLRKKFAQKMLRKARRKLIYEKAKHYHKEYRQMYRTEIRMARMARKAGNFYVPAEPKLAFVIRIRGINGVSPKVRKVLQLLRLRQIFNGTFVKLNKASINMLRIVEPYIAWGYPNLKSVNELIYKRGYGKINKKRIALTDNALIARSLGKYGIICMEDLIHEIYTVGKRFKEANNFLWPFKLSSPRGGMKKKTTHFVEGGDAGNREDQINRLIRRMN |
| 3615 | sp|Q8WZA2|RPGF4\_HUMAN | MVAAHAAHSSSSAEWIACLDKRPLERSSEDVDIIFTRLKEVKAFEKFHPNLLHQICLCGYYENLEKGITLFRQGDIGTNWYAVLAGSLDVKVSETSSHQDAVTICTLGIGTAFGESILDNTPRHATIVTRESSELLRIEQKDFKALWEKYRQYMAGLLAPPYGVMETGSNNDRIPDKENTPLIEPHVPLRPANTITKVPSEKILRAGKILRNAILSRAPHMIRDRKYHLKTYRQCCVGTELVDWMMQQTPCVHSRTQAVGMWQVLLEDGVLNHVDQEHHFQDKYLFYRFLDDEHEDAPLPTEEEKKECDEELQDTMLLLSQMGPDAHMRMILRKPPGQRTVDDLEIIYEELLHIKALSHLSTTVKRELAGVLIFESHAKGGTVLFNQGEEGTSWYIILKGSVNVVIYGKGVVCTLHEGDDFGKLALVNDAPRAASIVLREDNCHFLRVDKEDFNRILRDVEANTVRLKEHDQDVLVLEKVPAGNRASNQGNSQPQQKYTVMSGTPEKILEHFLETIRLEATLNEATDSVLNDFIMMHCVFMPNTQLCPALVAHYHAQPSQGTEQEKMDYALNNKRRVIRLVLQWAAMYGDLLQEDDVSMAFLEEFYVSVSDDARMIAALKEQLPELEKIVKQISEDAKAPQKKHKVLLQQFNTGDERAQKRQPIRGSDEVLFKVYCMDHTYTTIRVPVATSVKEVISAVADKLGSGEGLIIVKMSSGGEKVVLKPNDVSVFTTLTINGRLFACPREQFDSLTPLPEQEGPTVGTVGTFELMSSKDLAYQMTIYDWELFNCVHELELIYHTFGRHNFKKTTANLDLFLRRFNEIQFWVVTEICLCSQLSKRVQLLKKFIKIAAHCKEYKNLNSFFAIVMGLSNVAVSRLALTWEKLPSKFKKFYAEFESLMDPSRNHRAYRLTVAKLEPPLIPFMPLLIKDMTFTHEGNKTFIDNLVNFEKMRMIANTARTVRYYRSQPFNPDAAQANKNHQDVRSYVRQLNVIDNQRTLSQMSHRLEPRRP |
| 3616 | sp|O94941|RNF37\_HUMAN | MVINLCLPQFRPRIHCNKISADGYEVENLISEDLTKRSHGFRTEYFIKPPVYVTVSFPFNVEICRINIDLTAGGGQNVTGLEMYTSASSSRVSWNTPQCRTLGPAEPSVPDKEAFTLVGKVLLKNQSQVVFSHRGFKARPPFGAMEATLPSPAVVAQELWNKGALSLSHVAHLRICITHVTGGGIPCIKRLEVWGQPAKTCSQEVIDSILLVTSENLPQDVALQAPALPMESDCDPGDQPESQQAPSSLQKLAEIIQDVPEEFLDPITLEIMPCPMLLPSGKVIDQSTLEKCNRSEATWGRVPSDPFTGVAFTPHSQPLPHPSLKARIDHFLLQHSIPGCHLLGRAQTALAVIPSSIVLPSQKRKIEQAEHVPDSNFGVNASCFSATSPLVLPTTSEHTAKKMKATNEPSLTHMDCSTGPLSHEQKLSQSLEIALASTLGSMPSFTARLTRGQLQHLGTRGSNTSWRPGTGSEQPGSILGPECASCKRVFSPYFKKEPVYQLPCGHLLCRPCLGEKQRSLPMTCTACQRPVASQDVLRVHF |
| 3617 | sp|Q7L523|RRAGA\_HUMAN | MPNTAMKKKVLLMGKSGSGKTSMRSIIFANYIARDTRRLGATIDVEHSHVRFLGNLVLNLWDCGGQDTFMENYFTSQRDNIFRNVEVLIYVFDVESRELEKDMHYYQSCLEAILQNSPDAKIFCLVHKMDLVQEDQRDLIFKEREEDLRRLSRPLECACFRTSIWDETLYKAWSSIVYQLIPNVQQLEMNLRNFAQIIEADEVLLFERATFLVISHYQCKEQRDVHRFEKISNIIKQFKLSCSKLAASFQSMEVRNSNFAAFIDIFTSNTYVMVVMSDPSIPSAATLINIRNARKHFEKLERVDGPKHSLLMR |
| 3618 | sp|P63220|RS21\_HUMAN | MQNDAGEFVDLYVPRKCSASNRIIGAKDHASIQMNVAEVDKVTGRFNGQFKTYAICGAIRRMGESDDSILRLAKADGIVSKNF |
| 3619 | sp|P25443|RS2\_YEAST | MSAPEAQQQKRGGFGGRNRGRPNRRGPRNTEEKGWVPVTKLGRLVKAGKITTIEEIFLHSLPVKEFQIIDTLLPGLQDEVMNIKPVQKQTRAGQRTRFKAVVVVGDSNGHVGLGIKTAKEVAGAIRAGIIIAKLSVIPIRRGYWGTNLGQPHSLATKTTGKCGSVTVRLIPAPRGSGIVASPAVKKLLQLAGVEDVYTQSNGKTRTLENTLKAAFVAIGNTYGFLTPNLWAEQPLPVSPLDIYSDEASAQKKRF |
| 3620 | sp|P43609|RSC8\_YEAST | MSDTEKDKDVPMVDSHEATEEPPTTSTNTPSFPHLAQEQAKEESATLGAEVAHKKINYEQEAQKLEEKALRFLAKQTHPVIIPSFASWFDISKIHEIEKRSNPDFFNDSSRFKTPKAYKDTRNFIINTYRLSPYEYLTITAVRRNVAMDVASIVKIHAFLEKWGLINYQIDPRTKPSLIGPSFTGHFQVVLDTPQGLKPFLPENVIKQEVEGGDGAEPQVKKEFPVNLTIKKNVYDSAQDFNALQDESRNSRQIHKVYICHTCGNESINVRYHNLRARDTNLCSRCFQEGHFGANFQSSDFIRLENNGNSVKKNWSDQEMLLLLEGIEMYEDQWEKIADHVGGHKRVEDCIEKFLSLPIEDNYIREVVGSTLNGKGGDSRDGSVSGSKLMECVNDAVQTLLQGDDKLGKVSDKSREISEKYIEESQAIIQELVKLTMEKLESKFTKLCDLETQLEMEKLKYVKESEKMLNDRLSLSKQILDLNKSLEELNVSKKLVLISEQVDSGIQLVEKDQEGDDEDGNTATGHGVKRVGKEGEEVGEGDSIAKLQPQVYKPWSL |
| 3621 | sp|P27048|RSMB\_MOUSE | MTVGKSSKMLQHIDYRMRCILQDGRIFIGTFKAFDKHMNLILCDCDEFRKIKPKNSKQAEREEKRVLGLVLLRGENLVSMTVEGPPPKDTGIARVPLAGAAGGPGIGRAAGRGIPAGVPMPQAPAGLAGPVRGVGGPSQQVMTPQGRGTVAAAAAAATASIAGAPTQYPPGRGGPPPPMGRGAPPPGMMGPPPGMRPPMGPPMGLPPGRGTPMGMPPPGMRPPPPGMRGLL |
| 3622 | sp|Q91ZZ5|RXFP2\_MOUSE | MWLLLHVILLTEVKDFALADSSMVAPLCPKGYFPCGNLTKCLPRAFHCDGVDDCGNGADEDNCGDTSGWTTIFGTVHGNVNKVTLTQECFLSQYPQHCYCRENELECVKADLKAVPKVSSNVTLLSLKKNKIHRLPVKVFSRYTELRKIYLQHNCITHISRRAFLGLHNLQILYLSHNCITSLRPGIFKDLHQLAWLILDDNPITRISQKSFMGLNSLFFLSMVGNRLEALPETLCAQMPQLNWVDLANNGIKYITNSTFLTCDSLTVLFLPRNQIGFVPEKTFSSLKNLGELDLSSNMITKLPVHLFSDLHLLQKLNLSSNPLLYVHKNQFGSLKQLQSLDLERIEIPNISTGMFQPMKNLSHIYLKTFRYCSYVPHVRICMPSTDGISSSEDLLANGILRVSVWVIAFITCVGNFLVIAVRSLIKAENTTHAMSIKILCCADCLMGVYLFSVGVFDIKYRGQYQKYALLWMESVPCRLLGFLATLSTEVSVLLLTFLTLEKFLVIVFPFSNLRLGKRQTAVALASIWVVGFLIAAVPFTREDYFGNFYGKNGVCFPLHYDQAEDFGSRGYSLGIFLGVNLLAFLVIVISYVTMFCSIHKTALQTAEVRSHIGKEVAVANRFFFIVFSDAICWIPVFVVKILSLLQVEIPGTITSWIVVFFLPVNSALNPILYTLTTSFFKDKLKQLLHKHRRKPIFKVKKKSLSASIVWTDESSLKLGVLSKIALGDSIMKPVSP |
| 3623 | sp|Q15020|SART3\_HUMAN | MATAAETSASEPEAESKAGPKADGEEDEVKAARTRRKVLSRAVAAATYKTMGPAWDQQEEGVSESDGDEYAMASSAESSPGEYEWEYDEEEEKNQLEIERLEEQLSINVYDYNCHVDLIRLLRLEGELTKVRMARQKMSEIFPLTEELWLEWLHDEISMAQDGLDREHVYDLFEKAVKDYICPNIWLEYGQYSVGGIGQKGGLEKVRSVFERALSSVGLHMTKGLALWEAYREFESAIVEAARLEKVHSLFRRQLAIPLYDMEATFAEYEEWSEDPIPESVIQNYNKALQQLEKYKPYEEALLQAEAPRLAEYQAYIDFEMKIGDPARIQLIFERALVENCLVPDLWIRYSQYLDRQLKVKDLVLSVHNRAIRNCPWTVALWSRYLLAMERHGVDHQVISVTFEKALNAGFIQATDYVEIWQAYLDYLRRRVDFKQDSSKELEELRAAFTRALEYLKQEVEERFNESGDPSCVIMQNWARIEARLCNNMQKARELWDSIMTRGNAKYANMWLEYYNLERAHGDTQHCRKALHRAVQCTSDYPEHVCEVLLTMERTEGSLEDWDIAVQKTETRLARVNEQRMKAAEKEAALVQQEEEKAEQRKRARAEKKALKKKKKIRGPEKRGADEDDEKEWGDDEEEQPSKRRRVENSIPAAGETQNVEVAAGPAGKCAAVDVEPPSKQKEKAASLKRDMPKVLHDSSKDSITVFVSNLPYSMQEPDTKLRPLFEACGEVVQIRPIFSNRGDFRGYCYVEFKEEKSALQALEMDRKSVEGRPMFVSPCVDKSKNPDFKVFRYSTSLEKHKLFISGLPFSCTKEELEEICKAHGTVKDLRLVTNRAGKPKGLAYVEYENESQASQAVMKMDGMTIKENIIKVAISNPPQRKVPEKPETRKAPGGPMLLPQTYGARGKGRTQLSLLPRALQRPSAAAPQAENGPAAAPAVAAPAATEAPKMSNADFAKLFLRK |
| 3624 | sp|E9Q401|RYR2\_MOUSE | MADAGEGEDEIQFLRTDDEVVLQCTATIHKEQQKLCLAAEGFGNRLCFLESTSNSKNVPPDLSICTFVLEQSLSVRALQEMLANTVEKSEGQVDVEKWKFMMKTAQGGGHRTLLYGHAILLRHSYSGMYLCCLSTSRSSTDKLAFDVGLQEDTTGEACWWTIHPASKQRSEGEKVRVGDDLILVSVSSERYLHLSYGNSSWHVDAAFQQTLWSVAPISSGSEAAQGYLIGGDVLRLLHGHMDECLTVPSGEHGEEQRRTVHYEGGAVSVHARSLWRLETLRVAWSGSHIRWGQPFRLRHVTTGKYLSLMEDKNLLLMDKEKADVKSTAFAFRSSKEKLDVGVRKEVDGMGTSEIKYGDSICYIQHVDTGLWLTYQAVDVKSARMGSIQRKAIMHHEGHMDDGLNLSRSQHEESRTARVIRSTVFLFNRFIRGLDALSKKVKLPTIDLPIESVSLSLQDLIGYFHPPDEHLEHEDKQNRLRALKNRQNLFQEEGMINLVLECIDRLHVYSSAAHFADVAGREAGESWKSILNSLYELLAALIRGNRKNCAQFSGSLDWLISRLERLEASSGILEVLHCVLVESPEALNIIKEGHIKSIISLLDKHGRNHKVLDVLCSLCVCHGVAVRSNQHLICDNLLPGRDLLLQTRLVNHVSSMRPNIFLGVSEGSAQYKKWYYELMVDHTEPFVTAEATHLRVGWASTEGYSPYPGGGEEWGGNGVGDDLFSYGFDGLHLWSGCIARTVSSPNQHLLRTDDVISCCLDLSAPSISFRINGQPVQGMFENFNIDGLFFPVVSFSAGIKVRFLLGGRHGEFKFLPPPGYAACYEAVLPKEKLKVEHSREYKQERTYTRDLLGPTVSLTQAAFTPVPVDTSQIVLPPHLERIRERLAENIHELWVMNKIELGWQYGPVRDDNKRQHPCLVEFCKLPEQERNYNLQMSLETLKTLLALGCHVGIADEHAEEKVKKMKLPKNYQLTSGYKPAPMDLSFIKLTPSQEAMVDKLAENAHNVWARDRIRQGWTYGIQQDVKNRRNPRLVPYTLLDDRTKKSNKDSLREAVRTLLGYGYHLEAPDQDHASRAEVCSGTGERFRIFRAEKTYAVKAGRWYFEFEAVTAGDMRVGWSRPGCQPDLELGSDDRAFAFDGFKAQRWHQGNEHYGRSWQAGDVVGCMVDMNEHTMMFTLNGEILLDDSGSELAFKDFDVGDGFIPVCSLGVAQVGRMNFGKDVSTLKYFTICGLQEGYEPFAVNTNRDITMWLSKRLPQFLQVPSNHEHIEVTRIDGTIDSSPCLKVTQKSFGSQNNNTDIMFYRLSMPIECAEVFSKSVAGGLPGAGFYGPKNDLEDFDVDSDFEVLMKTAHGHLVPDRIDKDKETPKPEFNNHKDYAQEKPSRLKQRFLLRRTKPDYSTGHSARLTEDVLADDRDDYEYLMQTSTYYYSVRIFPGQEPANVWVGWITSDFHQYDTGFDLDRVRTVTVTLGDEKGKVHESIKRSNCYMVCAGESMSPGQGRNNSNGLEIGCVVDAASGLLTFIANGKELSTYYQVEPSTKLFPAVFAQATSPNVFQFELGRIKNVMPLSAGLFKSEHKNPVPQCPPRLHVQFLSHVLWSRMPNQFLKVDVSRISERQGWLVQCLDPLQFMSLHIPEENRSVDILELTEQEELLQFHYHTLRLYSAVCALGNHRVAHALCSHVDEPQLLYAIENKYMPGLLRAGYYDLLIDIHLSSYATARLMMNNEFIVPMTEETKSITLFPDENKKHGLPGIGLSTSLRPRMRFSSPSFVSISNDCYQYSPEFPLDILKAKTIQMLTEAVKEGSLHARDPVGGTTEFLFVPLIKLFYTLLIMGIFHNEDLKHILQLIEPSVFKEAAVPEEEGGTPEKEISIEDAKLEGEEEAKGGKRPKEGLLQMKLPEPVKLQMCLLLQYLCDCQVRHRIEAIVAFSDDFVAKLQDNQRFRYNEVMQALNMSAALTARKTREFRSPPQEQINMLLNFKDDKSECPCPEEIRDQLLDFHEDLMTHCGIELDEDGSLDGSNDLTIRGRLLSLVEKVTYLKKKQAEKPVASDSRKCSSLQQLISETMVRWAQESVIEDPELVRAMFVLLHRQYDGIGGLVRALPKTYTINGVSVEDTINLLASLGQIRSLLSVRMGKEEEKLMIRGLGDIMNNKVFYQHPNLMRALGMHETVMEVMVNVLGGGESKEITFPKMVANCCRFLCYFCRISRQNQKAMFDHLSYLLENSSVGLASPAMRGSTPLDVAAASVMDNNELALALREPDLEKVVRYLAGCGLQSCQMLVSKGYPDIGWNPVEGERYLDFLRFAVFCNGESVEENANVVVRLLIRRPECFGPALRGEGGNGLLAAMEEAIKIAEDPSRDGPSPTSGSSKTLDIEEEEDDTIHMGNAIMTFYAALIDLLGRCAPEMHLIHAGKGEAIRIRSILRSLIPLGDLVGVISIAFQMPTIAKDGKVVEPDMSAGFCPDHKAAMVLFLDRVYGIEVQDFLLHLLEVGFLPDLRAAASLDTAALSATDMALALNRYLCTAVLPLLTRCAPLFAGTEHHASLIDSLLHTVYRLSKGCSLTKAQRDSIEVCLLSICGQLRPSMMQHLLRRLVFDVPLLNEHAKMPLKLLTNHYERCWKYYCLPGGWGNFGAASEEELHLSRKLFWGIFDALSQKKYEQELFKLALPCLSAVAGALPPDYMESNYVSMMEKQSSMDSEGNFNPQPVDTSNITIPEKLEYFINKYAEHSHDKWSMDKLANGWIYGEIYSDSSKIQPLMKPYKLLSEKEKEIYRWPIKESLKTMLAWGWRIERTREGDSMALYNRTRRISQTSQVSIDAAHGYSPRAIDMSNVTLSRDLHAMAEMMAENYHNIWAKKKKLELESKGGGNHPLLVPYDTLTAKEKAKDREKAQDIFKFLQISGYVVSRGFKDLDLDTPSIEKRFAYSFLQQLIRYVDEAHQYILEFDGGSRSKGEHFPYEQEIKFFAKVVLPLIDQYFKNHRLYFLSAASRPLCTGGHASNKEKEMVTSLFCKLGVLVRHRISLFGNDATSIVNCLHILGQTLDARTVMKTGLDSVKSALRAFLDNAAEDLEKTMENLKQGQFTHTRSQPKGVTQIINYTTVALLPMLSSLFEHIGQHQFGEDLILEDVQVSCYRILTSLYALGTSKSIYVERQRSALGECLAAFAGAFPIAFLETHLDKHNVYSIYNTRSSRERAALSLPANVEDVCPNIPSLEKLMTEIIELAESGIRYTQMPYMMEVVLPMLCSYMSRWWEHGPENHPERAEMCCTALNSEHMNTLLGNILKIIYNNLGIDEGAWMKRLAVFSQPIINKVKPQLLKTHFLPLMEKLKKKAAMVVSEEDHLKAEARGDMSEAELLILDEFTTLARDLYAFYPLLIRFVDYNRAKWLKEPNPEAEELFRMVAEVFIYWSKSHNFKREEQNFVVQNEINNMSFLITDTKSKMSKAAISDQERKKMKRKGDRYSMQTSLIVAALKRLLPIGLNICAPGDQELIALAKNRFSLKDTEEEVRDIIRSNIHLQGKLEDPAIRWQMALYKDLPNRTEDPSDPERTVERVLGIANVLFHLEQKSKYTGRGYFSLVEHPQRSKKAVWHKLLSKQRKRAVVACFRMAPLYNLPRHRAVNLFLQGYEKSWIETEEHYFEDKLIEDLAKPGAELPEEDEAMKRVDPLHQLILLFSRTALTEKCKLEEDFLYMAYADIMAKSCHDEEDDDGEEEVKSFEEKEMEKQKLLYQQARLHDRGAAEMVLQTISASKGETGPMVAATLKLGIAILNGGNSTVQQKMLDYLKEKKDVGFFQSLAGLMQSCSVLDLNAFERQNKAEGLGMVTEEGSGEKVLQDDEFTCDLFRFLQLLCEGHNSDFQNYLRTQTGNNTTVNIIISTVDYLLRVQESISDFYWYYSGKDIIDEQGQRNFSKAIQVAKQVFNTLTEYIQGPCTGNQQSLAHSRLWDAVVGFLHVFAHMQMKLSQDSSQIELLKELMDLQKDMVVMLLSMLEGNVVNGTIGKQMVDMLVESSNNVEMILKFFDMFLKLKDLTSSDTFKEYDPDGKGVISKRDFHKAMESHKHYTQSETEFLLSCAETDENETLDYEEFVKRFHEPAKDIGFNVAVLLTNLSEHMPNDTRLQTFLELAESVLNYFQPFLGRIEIMGSAKRIERVYFEISESSRTQWEKPQVKESKRQFIFDVVNEGGEKEKMELFVNFCEDTIFEMQLAAQISESDLNERLANKEESEKERPEEQAPRMGFFSLLTIQSALFALRYNVLTLVRMLSLKSLKKQMKRMKKMTVKDMVLAFFSSYWSVFVTLLHFVASVCRGFFRIVSSLLLGGSLVEGAKKIKVAELLANMPDPTQDEVRGDEEEGERKPLESALPSEDLTDLKELTEESDLLSDIFGLDLKREGGQYKLIPHNPNAGLSDLMTNPVPVPEVQEKFQEQKAKEEKEEKEETKSEPEKAEGEDGEKEEKAKDEKSKQKLRQLHTHRYGEPEVPESAFWKKIIAYQQKLLNYFARNFYNMRMLALFVAFAINFILLFYKVSTSSVVEGKELPTRTSSDTAKVTNSLDSSPHRIIAVHYVLEESSGYMEPTLRILAILHTIISFFCIIGYYCLKVPLVIFKREKEVARKLEFDGLYITEQPSEDDIKGQWDRLVINTQSFPNNYWDKFVKRKVMDKYGEFYGRDRISELLGMDKAALDFSDAREKKKPKKDSSLSAVLNSIDVKYQMWKLGVVFTDNSFLYLAWYMTMSVLGHYNNFFFAAHLLDIAMGFKTLRTILSSVTHNGKQLVLTVGLLAVVVYLYTVVAFNFFRKFYNKSEDGDTPDMKCDDMLTCYMFHMYVGVRAGGGIGDEIEDPAGDEYEIYRIIFDITFFFFVIVILLAIIQGLIIDAFGELRDQQEQVKEDMETKCFICGIGNDYFDTVPHGFETHTLQEHNLANYLFFLMYLINKDETEHTGQESYVWKMYQERCWEFFPAGDCFRKQYEDQLN |
| 3625 | sp|Q8RWU3|RVE8\_ARATH | MSSSPSRNPTNAEAPPPPPTSTDAVAEGSSKKVRKPYTITKSRESWTEEEHDKFLEALQLFDRDWKKIEDFVGSKTVIQIRSHAQKYFLKVQKNGTLAHVPPPRPKRKAAHPYPQKASKNAQMPLQVSTSFTTTRNGDMPGYASWDDASMLLNRVISPQHELATLRGAEADIGSKGLLNVSSPSTSGMGSSSRTVSGSEIVRKAKQPPVLHGVPDFAEVYNFIGSVFDPETRGHVEKLKEMDPINFETVLLLMRNLTVNLSNPDLESTRKVLLSYDNVTTELPSVVSLVKNSTSDKSA |
| 3626 | sp|P08621|RU17\_HUMAN | MTQFLPPNLLALFAPRDPIPYLPPLEKLPHEKHHNQPYCGIAPYIREFEDPRDAPPPTRAETREERMERKRREKIERRQQEVETELKMWDPHNDPNAQGDAFKTLFVARVNYDTTESKLRREFEVYGPIKRIHMVYSKRSGKPRGYAFIEYEHERDMHSAYKHADGKKIDGRRVLVDVERGRTVKGWRPRRLGGGLGGTRRGGADVNIRHSGRDDTSRYDERPGPSPLPHRDRDRDRERERRERSRERDKERERRRSRSRDRRRRSRSRDKEERRRSRERSKDKDRDRKRRSSRSRERARRERERKEELRGGGGDMAEPSEAGDAPPDDGPPGELGPDGPDGPEEKGRDRDRERRRSHRSERERRRDRDRDRDRDREHKRGERGSERGRDEARGGGGGQDNGLEGLGNDSRDMYMESEGGDGYLAPENGYLMEAAPE |
| 3627 | sp|Q13761|RUNX3\_HUMAN | MRIPVDPSTSRRFTPPSPAFPCGGGGGKMGENSGALSAQAAVGPGGRARPEVRSMVDVLADHAGELVRTDSPNFLCSVLPSHWRCNKTLPVAFKVVALGDVPDGTVVTVMAGNDENYSAELRNASAVMKNQVARFNDLRFVGRSGRGKSFTLTITVFTNPTQVATYHRAIKVTVDGPREPRRHRQKLEDQTKPFPDRFGDLERLRMRVTPSTPSPRGSLSTTSHFSSQPQTPIQGTSELNPFSDPRQFDRSFPTLPTLTESRFPDPRMHYPGAMSAAFPYSATPSGTSISSLSVAGMPATSRFHHTYLPPPYPGAPQNQSGPFQANPSPYHLYYGTSSGSYQFSMVAGSSSGGDRSPTRMLASCTSSAASVAAGNLMNPSLGGQSDGVEADGSHSNSPTALSTPGRMDEAVWRPY |
| 3628 | sp|Q96NU1|SAM11\_HUMAN | MSKGILQVHPPICDCPGCRISSPVNRGRLADKRTVALPAARNLKKERTPSFSASDGDSDGSGPTCGRRPGLKQEDGPHIRIMKRRVHTHWDVNISFREASCSQDGNLPTLISSVHRSRHLVMPEHQSRCEFQRGSLEIGLRPAGDLLGKRLGRSPRISSDCFSEKRARSESPQEALLLPRELGPSMAPEDHYRRLVSALSEASTFEDPQRLYHLGLPSHGEDPPWHDPPHHLPSHDLLRVRQEVAAAALRGPSGLEAHLPSSTAGQRRKQGLAQHREGAAPAAAPSFSERELPQPPPLLSPQNAPHVALGPHLRPPFLGVPSALCQTPGYGFLPPAQAEMFAWQQELLRKQNLARLELPADLLRQKELESARPQLLAPETALRPNDGAEELQRRGALLVLNHGAAPLLALPPQGPPGSGPPTPSRDSARRAPRKGGPGPASARPSESKEMTGARLWAQDGSEDEPPKDSDGEDPETAAVGCRGPTPGQAPAGGAGAEGKGLFPGSTLPLGFPYAVSPYFHTGAVGGLSMDGEEAPAPEDVTKWTVDDVCSFVGGLSGCGEYTRVFREQGIDGETLPLLTEEHLLTNMGLKLGPALKIRAQVARRLGRVFYVASFPVALPLQPPTLRAPERELGTGEQPLSPTTATSPYGGGHALAGQTSPKQENGTLALLPGAPDPSQPLC |
| 3629 | sp|P43007|SATT\_HUMAN | MEKSNETNGYLDSAQAGPAAGPGAPGTAAGRARRCAGFLRRQALVLLTVSGVLAGAGLGAALRGLSLSRTQVTYLAFPGEMLLRMLRMIILPLVVCSLVSGAASLDASCLGRLGGIAVAYFGLTTLSASALAVALAFIIKPGSGAQTLQSSDLGLEDSGPPPVPKETVDSFLDLARNLFPSNLVVAAFRTYATDYKVVTQNSSSGNVTHEKIPIGTEIEGMNILGLVLFALVLGVALKKLGSEGEDLIRFFNSLNEATMVLVSWIMWYVPVGIMFLVGSKIVEMKDIIVLVTSLGKYIFASILGHVIHGGIVLPLIYFVFTRKNPFRFLLGLLAPFATAFATCSSSATLPSMMKCIEENNGVDKRISRFILPIGATVNMDGAAIFQCVAAVFIAQLNNVELNAGQIFTILVTATASSVGAAGVPAGGVLTIAIILEAIGLPTHDLPLILAVDWIVDRTTTVVNVEGDALGAGILHHLNQKATKKGEQELAEVKVEAIPNCKSEEETSPLVTHQNPAGPVASAPELESKESVL |
| 3630 | sp|P60903|S10AA\_HUMAN | MPSQMEHAMETMMFTFHKFAGDKGYLTKEDLRVLMEKEFPGFLENQKDPLAVDKIMKDLDQCRDGKVGFQSFFSLIAGLTIACNDYFVVHMKQKGKK |
| 3631 | sp|Q75N73|S39AE\_MOUSE | MKRLHPALPSCLLLVLFGIWRTAPQTHASSAGLPPLSATSFLEDLMDRYGKNDSLTLTQLKSLLDHLHVGVGRDNVSQPKEGPRNLSTCFSSGDLFAAHNLSERSQIGASEFQEFCPTILQQLDSQACTSENQKSEENEQTEEGKPSAIEVWGYGFLCVTVISLCSLMGASVVPFMKKTFYKRLLLYFIALAIGTLYSNALFQLIPEAFGFNPQDNYVSKSAVVFGGFYLFFFTEKILKMLLKQKNEHHHGHNHFTSETLPSKKDQEEGVTEKLQNGDLDHMIPQHCNSELDGKAPGTDEKVIVNSMSVQDLQASQSACYWLKGVRYSDIGTLAWMITLSDGLHNFIDGLAIGASFTVSVFQGISTSVAILCEEFPHELGDFVILLNAGMSIQQALFFNFLSACCCYLGLAFGILAGSHFSANWIFALAGGMFLYIALADMFPEMNEVCQEDEKNDSFLVPFVIQNLGLLTGFSIMLVLTMYSGQIQIG |
| 3632 | sp|P53064|RTF1\_YEAST | MSDLDEDLLALAGADESEEEDQVLTTTSAKRAKNNDQSLSKKRRIEVGSVEDDDEEDDYNPYSVGNADYGSEEEEEANPFPLEGKYKDESDREHLESLPEMERETLLFERSQIMQKYQERKLFRARGRDMKEQQQRAKNDEDSRKTRASTRSTHATGHSDIKASKLSQLKKQRARKNRHYSDNEDEDDEEDYREEDYKDDEGSEYGDDEEYNPFDRRDTYDKREEVEWAEEEDEQDREPEISDFNKLRIGRSFVAKFCFYPGFEDAVKGCYGRVNVGTDKRTGKTSYRMVRIERVFLQKPYNMGKFYTNQYFGVTQGKDRKVFQMNYFSDGLFAEDEYQRYLRALDNSQMIKPSLHSLSNKTKEVMDFVNTPLTDKTTDEVVRHRMQFNKKLSGTNAVLEKTVLREKLQYAKETNNEKDIAKYSAQLRNFEKRMSVYEKHHENDQSDIKKLGELTSKNRKLNMSNIRNAEHVKKEDSNNFDSKSDPFSRLKTRTKVYYQEIQKEENAKAKEIAQQEKLQEDKDAKDKREKELLVAQFRRLGGLERMVGELDIKFDLKF |
| 3633 | sp|P31641|SC6A6\_HUMAN | MATKEKLQCLKDFHKDILKPSPGKSPGTRPEDEAEGKPPQREKWSSKIDFVLSVAGGFVGLGNVWRFPYLCYKNGGGAFLIPYFIFLFGSGLPVFFLEIIIGQYTSEGGITCWEKICPLFSGIGYASVVIVSLLNVYYIVILAWATYYLFQSFQKELPWAHCNHSWNTPHCMEDTMRKNKSVWITISSTNFTSPVIEFWERNVLSLSPGIDHPGSLKWDLALCLLLVWLVCFFCIWKGVRSTGKVVYFTATFPFAMLLVLLVRGLTLPGAGAGIKFYLYPDITRLEDPQVWIDAGTQIFFSYAICLGAMTSLGSYNKYKYNSYRDCMLLGCLNSGTSFVSGFAIFSILGFMAQEQGVDIADVAESGPGLAFIAYPKAVTMMPLPTFWSILFFIMLLLLGLDSQFVEVEGQITSLVDLYPSFLRKGYRREIFIAFVCSISYLLGLTMVTEGGMYVFQLFDYYAASGVCLLWVAFFECFVIAWIYGGDNLYDGIEDMIGYRPGPWMKYSWAVITPVLCVGCFIFSLVKYVPLTYNKTYVYPNWAIGLGWSLALSSMLCVPLVIVIRLCQTEGPFLVRVKYLLTPREPNRWAVEREGATPYNSRTVMNGALVKPTHIIVETMM |
| 3634 | sp|P09234|RU1C\_HUMAN | MPKFYCDYCDTYLTHDSPSVRKTHCSGRKHKENVKDYYQKWMEEQAQSLIDKTTAAFQQGKIPPTPFSAPPPAGAMIPPPPSLPGPPRPGMMPAPHMGGPPMMPMMGPPPPGMMPVGPAPGMRPPMGGHMPMMPGPPMMRPPARPMMVPTRPGMTRPDR |
| 3635 | sp|Q5K651|SAMD9\_HUMAN | MAKQLNLPENTDDWTKEDVNQWLESHKIDQKHREILTEQDVNGAVLKWLKKEHLVDMGITHGPAIQIEELFKELRKTAIEDSIQTSKMGKPSKNAPKDQTVSQKERRETSKQKQKGKENPDMANPSAMSTTAKGSKSLKVELIEDKIDYTKERQPSIDLTCVSYPFDEFSNPYRYKLDFSLQPETGPGNLIDPIHEFKAFTNTATATEEDVKMKFSNEVFRFASACMNSRTNGTIHFGVKDKPHGKIVGIKVTNDTKEALINHFNLMINKYFEDHQVQQAKKCIREPRFVEVLLPNSTLSDRFVIEVDIIPQFSECQYDYFQIKMQNYNNKIWEQSKKFSLFVRDGTSSKDITKNKVDFRAFKADFKTLAESRKAAEEKFRAKTNKKEREGPKLVKLLTGNQDLLDNSYYEQYILVTNKCHPDQTKHLDFLKEIKWFAVLEFDPESNINGVVKAYKESRVANLHFPSVYVEQKTTPNETISTLNLYHQPSWIFCNGRLDLDSEKYKPFDPSSWQRERASDVRKLISFLTHEDIMPRGKFLVVFLLLSSVDDPRDPLIETFCAFYQDLKGMENILCICVHPHIFQGWKDLLEARLIKHQDEISSQCISALSLEEINGTILKLKSVTQSSKRLLPSIGLSTVLLKKEEDIMTALEIICENECEGTLLEKDKNKFLEFKASKEEDFYRGGKVSWWNFYFSSESYSSPFVKRDKYERLEAMIQNCADSSKPTSTKIIHLYHHPGCGGTTLAMHILWELRKKFRCAVLKNKTVDFSEIGEQVTSLITYGAMNRQEYVPVLLLVDDFEEQDNVYLLQYSIQTAIAKKYIRYEKPLVIILNCMRSQNPEKSARIPDSIAVIQQLSPKEQRAFELKLKEIKEQHKNFEDFYSFMIMKTNFNKEYIENVVRNILKGQNIFTKEAKLFSFLALLNSYVPDTTISLSQCEKFLGIGNKKAFWGTEKFEDKMGTYSTILIKTEVIECGNYCGVRIIHSLIAEFSLEELKKSYHLNKSQIMLDMLTENLFFDTGMGKSKFLQDMHTLLLTRHRDEHEGETGNWFSPFIEALHKDEGNEAVEAVLLESIHRFNPNAFICQALARHFYIKKKDFGNALNWAKQAKIIEPDNSYISDTLGQVYKSKIRWWIEENGGNGNISVDDLIALLDLAEHASSAFKESQQQSEDREYEVKERLYPKSKRRYDTYNIAGYQGEIEVGLYTIQILQLIPFFDNKNELSKRYMVNFVSGSSDIPGDPNNEYKLALKNYIPYLTKLKFSLKKSFDFFDEYFVLLKPRNNIKQNEEAKTRRKVAGYFKKYVDIFCLLEESQNNTGLGSKFSEPLQVERCRRNLVALKADKFSGLLEYLIKSQEDAISTMKCIVNEYTFLLEQCTVKIQSKEKLNFILANIILSCIQPTSRLVKPVEKLKDQLREVLQPIGLTYQFSEPYFLASLLFWPENQQLDQHSEQMKEYAQALKNSFKGQYKHMHRTKQPIAYFFLGKGKRLERLVHKGKIDQCFKKTPDINSLWQSGDVWKEEKVQELLLRLQGRAENNCLYIEYGINEKITIPITPAFLGQLRSGRSIEKVSFYLGFSIGGPLAYDIEIV |
| 3636 | sp|P21461|SINA\_DROME | MSNKINPKRREPTAAAAGAGATGVATNTSTSTGSSSAGNTSSANTSSSSSSSLSSAGGGDAGMSADLTSLFECPVCFDYVLPPILQCSSGHLVCVSCRSKLTCCPTCRGPLANIRNLAMEKVASNVKFPCKHSGYGCTASLVYTEKTEHEETCECRPYLCPCPGASCKWQGPLDLVMQHLMMSHKSITTLQGEDIVFLATDINLPGAVDWVMMQSCFGHHFMLVLEKQEKYDGHQQFFAIVQLIGSRKEAENFVYRLELNGNRRRLTWEAMPRSIHEGVASAIHNSDCLVFDTSIAQLFADNGNLGINVTISLV |
| 3637 | sp|Q9W1K5|SESN\_DROME | MYYAVDYYADMGQISQDCFAATQTGASDFDMDELDDLDQVTQVIGYHPQFHDHFLATQNFIMKGDGPLPNDYRYYLAIIAAARHQCPYLVKRYEKEFINQGGDSAWLGGLDFIPAKLRAIYDINKILAHRPWLLRKEHIERLTKGKNSWSLSEVVHAMVLLSHFHSLSSFVFSCGLTQKLDGLSSPKLKSPPAAVAALAPTILITPTSPTEPQKGKPVLAEISLNNANPDYDSQTAASSNGGAPPDSANAVADGPDATTLNGYLATAQQLPQQHGISVETLMERMKVLSQKQDECSEAELSSRFQKVEQQTAELAAVTPEAAVGVPTNLSHYVDDANFIYQDFARRGTESINTFRIQDYSWEDHGYSLVDGLYNDVGIFLDAKFRAAYNLTYCTMGGIKNVDTSKFRRAIWNYIQCIYGIRHDDYDYGEVNQLLVRPLKMFIKTACCFPERITTKDYDSVLVELQDSEKVHVNLMIMEARNQAELLYALREIMRYMT |
| 3638 | sp|Q62231|SIX1\_MOUSE | MSMLPSFGFTQEQVACVCEVLQQGGNLERLGRFLWSLPACDHLHKNESVLKAKAVVAFHRGNFRELYKILESHQFSPHNHPKLQQLWLKAHYVEAEKLRGRPLGAVGKYRVRRKFPLPRTIWDGEETSYCFKEKSRGVLREWYAHNPYPSPREKRELAEATGLTTTQVSNWFKNRRQRDRAAEAKERENTENNNSSSNKQNQLSPLEGGKPLMSSSEEEFSPPQSPDQNSVLLLQSNMGHARSSNYSLPGLTASQPSHGLQAHQHQLQDSLLGPLTSSLVDLGS |
| 3639 | sp|Q8T3Y0|SINAL\_DROME | MSVRNSRPQLSWPERVSPQRTIDTPTASGEMLTRRQSAPALVVPPEETTHVVVVKRQSPDAAAAGELVPSRRKDSVAVQSGIVATGPLDTTRSGARDDFLMALLECPVCFGYIMPPIMQCPRGHLICSTCRSKLTICPVCRVFMTNIRSLAMEKVASKLIFPCKHSHFGCRARLSYAEKTKHEEDCECRPYFCPYPDDKCSWQGPLRDVYQHLMSSHENVITMEGNDIIFLATNVNLEGALDWTMVQSCHGRHFLLSLEKINLGEDCQQYFTACRMIGSMKDAAEFVYNISLEAYNRTLRWQSKPRSIRENFSSFTNADFLVLNKHTVELFSEDGNLALNVVIRKVEERTN |
| 3640 | sp|Q9V3Z2|SER7\_DROME | MKSTRKVVGIFLATCLLPFTVLQNVAAQGSCRNPNQKQGQCLSIYDCQSLLSVIQQSYVSPEDRTFLRNSQCLDGVGRQPYVCCTSDRSFGSQEATSAAPPPTTTSSSSRGQDGQAGLGNLLPSPPKCGPHSFSNKVYNGNDTAIDEFNWMALLEYVDNRGRRELSCGGSLINNRYVLTAAHCVIGAVETEVGHLTTVRLGEYDTSKDVDCIDDICNQPILQLGIEQATVHPQYDPANKNRIHDIALLRLDRPVVLNEYIQPVCLPLVSTRMAINTGELLVVSGWGRTTTARKSTIKQRLDLPVNDHDYCARKFATRNIHLISSQLCVGGEFYRDSCDGDSGGPLMRRGFDQAWYQEGVVSFGNRCGLEGWPGVYTRVADYMDWIVETIRP |
| 3641 | sp|P9WJ03|SIR\_MYCTU | MTTARPAKARNEGQWALGHREPLNANEELKKAGNPLDVRERIENIYAKQGFDSIDKTDLRGRFRWWGLYTQREQGYDGTWTGDDNIDKLEAKYFMMRVRCDGGALSAAALRTLGQISTEFARDTADISDRQNVQYHWIEVENVPEIWRRLDDVGLQTTEACGDCPRVVLGSPLAGESLDEVLDPTWAIEEIVRRYIGKPDFADLPRKYKTAISGLQDVAHEINDVAFIGVNHPEHGPGLDLWVGGGLSTNPMLAQRVGAWVPLGEVPEVWAAVTSVFRDYGYRRLRAKARLKFLIKDWGIAKFREVLETEYLKRPLIDGPAPEPVKHPIDHVGVQRLKNGLNAVGVAPIAGRVSGTILTAVADLMARAGSDRIRFTPYQKLVILDIPDALLDDLIAGLDALGLQSRPSHWRRNLMACSGIEFCKLSFAETRVRAQHLVPELERRLEDINSQLDVPITVNINGCPNSCARIQIADIGFKGQMIDDGHGGSVEGFQVHLGGHLGLDAGFGRKLRQHKVTSDELGDYIDRVVRNFVKHRSEGERFAQWVIRAEEDDLR |
| 3642 | sp|Q9JID9|SH2B2\_MOUSE | MNGATPSSAAAPAPVPDWRQFCELHAQVAAVDFAHKFCRFLRDNPTYDTPDAGTSFSRHFAANFLAVFSEEVRRVLGSAADTMEPEPAVTSVTSALKTATYGHSRSSEDVSAHAATKARVRKGFSLRNMSLCVVDGVRDLWHRRSSPEPDGGATPKAAEPASEPRDKWTRRLRLARTLAAKVELVDIQREGALRFMVADDAASGPGGTAQWQKCRLLLRRAVAGERFRLEFFVPPKASRPKVSIPLSAIIEVRTTMPLEMPEKDNTFVLKVENGAEYILETIDSLQKHSWVADIQGCVDPGDSEEDTGLSCARGGCLASRVASCSCELLTDADMPRPPETTTAVGAVVTAPHGRARDTVGESLAHVPLETFLQTLESSGGVSENNNPGDEGAELDTDAEAELELSDYPWFHGTLSRVKAAQLVLAGGPRSHGLFVIRQSETRPGECVLTFNFQGKAKHLRLSLNGHGQCHVQHLWFQSVFDMLRHFHTHPIPLESGGSADITLRSYVRAQGPPPDPGPAPNTAAPVPACWTEPAGQHYFSSLATATCPPASPSNGAGASSSSGSSSSATSLPPRPAEGPLSAHSRSNSTEHLLDAASGATEEPTEATLGRARAVENQYSFY |
| 3643 | sp|Q62233|SIX3\_MOUSE | MVFRSPLDLYSSHFLLPNFADSHHCSLLLASSGGGSGASGGGGGAGGGGGGNRAGGGGAGGAGGGSGGGGSRAPPEELSMFQLPTLNFSPEQVASVCETLEETGDIERLGRFLWSLPVAPGACEAINKHESILRARAVVAFHTGNFRDLYHILENHKFTKESHGKLQAMWLEAHYQEAEKLRGRPLGPVDKYRVRKKFPLPRTIWDGEQKTHCFKERTRSLLREWYLQDPYPNPSKKRELAQATGLTPTQVGNWFKNRRQRDRAAAAKNRLQHQAIGPSGMRSLAEPGCPTHGSAESPSTAASPTTSVSSLTERADTGTSILSVTSSDSECDV |
| 3644 | sp|Q5T4F7|SFRP5\_HUMAN | MRAAAAGGGVRTAALALLLGALHWAPARCEEYDYYGWQAEPLHGRSYSKPPQCLDIPADLPLCHTVGYKRMRLPNLLEHESLAEVKQQASSWLPLLAKRCHSDTQVFLCSLFAPVCLDRPIYPCRSLCEAVRAGCAPLMEAYGFPWPEMLHCHKFPLDNDLCIAVQFGHLPATAPPVTKICAQCEMEHSADGLMEQMCSSDFVVKMRIKEIKIENGDRKLIGAQKKKKLLKPGPLKRKDTKRLVLHMKNGAGCPCPQLDSLAGSFLVMGRKVDGQLLLMAVYRWDKKNKEMKFAVKFMFSYPCSLYYPFFYGAAEPH |
| 3645 | sp|P02784|SFP1\_BOVIN | MALQLGLFLIWAGVSVFLQLDPVNGDQDEGVSTEPTQDGPAELPEDEECVFPFVYRNRKHFDCTVHGSLFPWCSLDADYVGRWKYCAQRDYAKCVFPFIYGGKKYETCTKIGSMWMSWCSLSPNYDKDRAWKYC |
| 3646 | sp|Q7XV05|SERK2\_ORYSJ | MAEARLLRRRRLCLAVPFVWVVAVAVSRVGANTEGDALYSLRQSLKDANNVLQSWDPTLVNPCTWFHVTCNPDNSVIRVDLGNAQLSGALVPQLGQLKNLQYLELYSNNISGTIPNELGNLTNLVSLDLYLNNFTGFIPETLGQLYKLRFLRLNNNSLSGSIPKSLTNITTLQVLDLSNNNLSGEVPSTGSFSLFTPISFANNKDLCGPGTTKPCPGAPPFSPPPPFNPPTPTVSQGDSKTGAIAGGVAAAAALLFAVPAIGFAWWRRRKPEEHFFDVPAEEDPEVHLGQLKRFSLRELQVATDNFSNKNILGRGGFGKVYKGRLADGSLVAVKRLKEERTPGGELQFQTEVEMISMAVHRNLLRLRGFCMTPTERLLVYPYMANGSVASRLRERQPNDPPLEWQTRTRIALGSARGLSYLHDHCDPKIIHRDVKAANILLDEDFEAVVGDFGLAKLMDYKDTHVTTAVRGTIGHIAPEYLSTGKSSEKTDVFGYGIMLLELITGQRAFDLARLANDDDVMLLDWVKGLLKEKKVEMLVDPDLQSGFVEHEVESLIQVALLCTQGSPMDRPKMSEVVRMLEGDGLAERWEEWQKVEVVRQEAELAPRHNDWIVDSTYNLRAMELSGPR |
| 3647 | sp|Q12216|SIZ2\_YEAST | MASVMSNNNNNNNNNNASYMFTNPLSNTGGGLINEIKDAINEMEQLKVLELKQICKSLDLSITGKKAVLQDRIKQFLRKSCDIGHIDPWRPKAIKILIAKVRINSSLPKYSTLWETLKTGAFKHPVASGQLPVTALQSTALPPYSQQQALAYSFTSPFYKPIVQIPDANKKLKQSAGRGCTKMKFKVSKSNHDLLKSNKSYKLYLFSGFSIPFIYETVGHEAIDFPYPCELVFNGTKLEDNVKGLKKQNGTGNPANLTPYLKVPTEMNHLDLHYLNIDKEYSISCFIVEVFSPEALLGKILKRPKIIKQATTAYIKRTLNEQDDDDIITTSTVLSLQCPISCTRMKYPAKTDQCKHIQCFDALWFLHSQSQVPTWQCPICQHPIKFDQLKISEFVDNIIQNCNEDVEQVEISVDGSWKPIHNSSAVITDTVNQNHSVKNENQGTVKQEQDYDSRNAFDTNLRNGSNHNEPEIISLDSSDDEAFIPASKSFPTHVNPRNDQLRADIFPSESEGSSDYNPNHTSTPKGSPTMDQDNYQDAFQMRSFLNQGATTNINDTPTNNSSINSFVTATNGDSRIFYNRGPSTPLLPAVLQNLTNQTEAQRNPYGPNYNTTAQDRNLLGIEGDLPPIPPVDPNSEAETELPTRTTSAAHLPPYIHVSTSGHGDDGKIRKRRHSNVSIYIPKNPYATLMKRRPQANHAIMNKTLAQTNDFNTSAQDNSEVVDLTSD |
| 3648 | sp|Q9NPR2|SEM4B\_HUMAN | MLRTAMGLRSWLAAPWGALPPRPPLLLLLLLLLLLQPPPPTWALSPRISLPLGSEERPFLRFEAEHISNYTALLLSRDGRTLYVGAREALFALSSNLSFLPGGEYQELLWGADAEKKQQCSFKGKDPQRDCQNYIKILLPLSGSHLFTCGTAAFSPMCTYINMENFTLARDEKGNVLLEDGKGRCPFDPNFKSTALVVDGELYTGTVSSFQGNDPAISRSQSLRPTKTESSLNWLQDPAFVASAYIPESLGSLQGDDDKIYFFFSETGQEFEFFENTIVSRIARICKGDEGGERVLQQRWTSFLKAQLLCSRPDDGFPFNVLQDVFTLSPSPQDWRDTLFYGVFTSQWHRGTTEGSAVCVFTMKDVQRVFSGLYKEVNRETQQWYTVTHPVPTPRPGACITNSARERKINSSLQLPDRVLNFLKDHFLMDGQVRSRMLLLQPQARYQRVAVHRVPGLHHTYDVLFLGTGDGRLHKAVSVGPRVHIIEELQIFSSGQPVQNLLLDTHRGLLYAASHSGVVQVPMANCSLYRSCGDCLLARDPYCAWSGSSCKHVSLYQPQLATRPWIQDIEGASAKDLCSASSVVSPSFVPTGEKPCEQVQFQPNTVNTLACPLLSNLATRLWLRNGAPVNASASCHVLPTGDLLLVGTQQLGEFQCWSLEEGFQQLVASYCPEVVEDGVADQTDEGGSVPVIISTSRVSAPAGGKASWGADRSYWKEFLVMCTLFVLAVLLPVLFLLYRHRNSMKVFLKQGECASVHPKTCPVVLPPETRPLNGLGPPSTPLDHRGYQSLSDSPPGSRVFTESEKRPLSIQDSFVEVSPVCPRPRVRLGSEIRDSVV |
| 3649 | sp|Q96EQ0|SGTB\_HUMAN | MSSIKHLVYAVIRFLREQSQMDTYTSDEQESLEVAIQCLETVFKISPEDTHLAVSQPLTEMFTSSFCKNDVLPLSNSVPEDVGKADQLKDEGNNHMKEENYAAAVDCYTQAIELDPNNAVYYCNRAAAQSKLGHYTDAIKDCEKAIAIDSKYSKAYGRMGLALTALNKFEEAVTSYQKALDLDPENDSYKSNLKIAEQKLREVSSPTGTGLSFDMASLINNPAFISMAASLMQNPQVQQLMSGMMTNAIGGPAAGVGGLTDLSSLIQAGQQFAQQIQQQNPELIEQLRNHIRSRSFSSSAEEHS |
| 3650 | sp|Q92765|SFRP3\_HUMAN | MVCGSPGGMLLLRAGLLALAALCLLRVPGARAAACEPVRIPLCKSLPWNMTKMPNHLHHSTQANAILAIEQFEGLLGTHCSPDLLFFLCAMYAPICTIDFQHEPIKPCKSVCERARQGCEPILIKYRHSWPENLACEELPVYDRGVCISPEAIVTADGADFPMDSSNGNCRGASSERCKCKPIRATQKTYFRNNYNYVIRAKVKEIKTKCHDVTAVVEVKEILKSSLVNIPRDTVNLYTSSGCLCPPLNVNEEYIIMGYEDEERSRLLLVEGSIAEKWKDRLGKKVKRWDMKLRHLGLSKSDSSNSDSTQSQKSGRNSNPRQARN |
| 3651 | sp|P39135|SFP\_BACSU | MKIYGIYMDRPLSQEENERFMSFISPEKREKCRRFYHKEDAHRTLLGDVLVRSVISRQYQLDKSDIRFSTQEYGKPCIPDLPDAHFNISHSGRWVICAFDSQPIGIDIEKTKPISLEIAKRFFSKTEYSDLLAKDKDEQTDYFYHLWSMKESFIKQEGKGLSLPLDSFSVRLHQDGQVSIELPDSHSPCYIKTYEVDPGYKMAVCAAHPDFPEDITMVSYEELL |
| 3652 | sp|Q8LAS8|SFGH\_ARATH | MASGLSEIGSTKMFDGYNKRYKHFSETLGCSMTFSIYFPPSASSSHKSPVLYWLSGLTCTDENFIIKSGAQRAASTHGIALVAPDTSPRGLNVEGEADSYDFGVGAGFYLNATQEKWKNWRMYDYVVKELPKLLSENFSQLDTTKASISGHSMGGHGALTIYLRNLDKYKSVSAFAPITNPINCAWGQKAFTNYLGDNKAAWEEYDATCLISKYNNLSATILIDQGENDQFYPDQLLPSKFEEACKKVNAPLLLRLHPGYDHSYYFIATFIEDHISHHAQALEL |
| 3653 | sp|Q8T3G2|SCPL1\_CAEEL | MTYAESTRSAVVYSSIVPPPRTPVGPPMLKDGVRKGSASQPLQPKNGANSLDYWSKSEDEKSGITCYYSRHNIQFPPPQRKMKPVKPNPVGRSTINGFTPSTSSPQNGLRYPPFPQNTPESVMSPPVGIYRNIPAMPRAKLTKDEKNGGKMNRDGGGENPKNVVWGGTSRKDDDTASTPLNSFSANASIEKKRSTARRKPRWARCFQTLFCCVTPPREIEKIQSSQRTNSTNNNHQNGRPSTPTNTGPPIQLITQVHRDGTVTGLPTTGQACQQNGSGDGVTPYDKIANDSVGTINEKPLLPPLLPQDSNKKCLVIDLDETLVHSSFKPVKNPDFVIPVEIDGVEHQVYVLKRPYVDEFLAKVGEHFECILFTASLAKYADPVADLLDKKRVFRGRLFREACVFHKGNYVKDLSRLGRNLNQTLIIDNSPASYAFHPENAVPVTTWFDDPSDTELLDILPSLEHLNGFSSIYDLYRPEEGPQSELLNHCSC |
| 3654 | sp|Q7K2X8|SEH1\_DROME | MFDVEPIIADHKDVIHDVVFDYYGRRMATCSSDQTVKIWDEDGQGKWNVTSSWKAHSGSIWRVSWAHPEFGQVVATCSFDRTASVWEEVIGEKVSSTNTPTRRWVRRTTLVDSRTSVTDVEFAPKYLGLLLATASADGIIRIYEAPDIMNLSQWPVQHEISNKLPLSCLSWNTSTYMVTQLLAAGSDEAATPTGKVFLFAYSENSRKCVKIDTVNDITDPVTDVAFAPNAGRTFHMLAVASKDLYIVNLRGVTDATDISKLDIQTIKFSEHNCPVWRVCWNMLATMLISTGDDGCVRLWRMNYNRQWRCAAVLKAEGSGPTYEPAPPTPTLATTASATAKFYKKGTIGNQVPWH |
| 3655 | sp|Q99985|SEM3C\_HUMAN | MAFRTICVLVGVFICSICVKGSSQPQARVYLTFDELRETKTSEYFSLSHHPLDYRILLMDEDQDRIYVGSKDHILSLNINNISQEALSVFWPASTIKVEECKMAGKDPTHGCGNFVRVIQTFNRTHLYVCGSGAFSPVCTYLNRGRRSEDQVFMIDSKCESGKGRCSFNPNVNTVSVMINEELFSGMYIDFMGTDAAIFRSLTKRNAVRTDQHNSKWLSEPMFVDAHVIPDGTDPNDAKVYFFFKEKLTDNNRSTKQIHSMIARICPNDTGGLRSLVNKWTTFLKARLVCSVTDEDGPETHFDELEDVFLLETDNPRTTLVYGIFTTSSSVFKGSAVCVYHLSDIQTVFNGPFAHKEGPNHQLISYQGRIPYPRPGTCPGGAFTPNMRTTKEFPDDVVTFIRNHPLMYNSIYPIHKRPLIVRIGTDYKYTKIAVDRVNAADGRYHVLFLGTDRGTVQKVVVLPTNNSVSGELILEELEVFKNHAPITTMKISSKKQQLYVSSNEGVSQVSLHRCHIYGTACADCCLARDPYCAWDGHSCSRFYPTGKRRSRRQDVRHGNPLTQCRGFNLKAYRNAAEIVQYGVKNNTTFLECAPKSPQASIKWLLQKDKDRRKEVKLNERIIATSQGLLIRSVQGSDQGLYHCIATENSFKQTIAKINFKVLDSEMVAVVTDKWSPWTWASSVRALPFHPKDIMGAFSHSEMQMINQYCKDTRQQHQQGDESQKMRGDYGKLKALINSRKSRNRRNQLPES |
| 3656 | sp|Q93794|SEL10\_CAEEL | MWPRNDVHMDDGSMTPEDQEPVTDNDMEYNDNGEESSYSNGSSSSYNADKLSSSRPLQHKLDLSASPSRNNDLNPRVEHLIALFKDLSSAEQMDAFTRLLQESNMTNIRQLRAIIEPHFQRDFLSCLPVELGMKILHNLTGYDLLKVAQVSKNWKLISEIDKIWKSLGVEEFKHHPDPTDRVTGAWQGTAIAAGVTIPDHIQPCDLNVHRFLKLQKFGDIFERAADKSRYLRADKIEKNWNANPIMGSAVLRGHEDHVITCMQIHDDVLVTGSDDNTLKVWCIDKGEVMYTLVGHTGGVWTSQISQCGRYIVSGSTDRTVKVWSTVDGSLLHTLQGHTSTVRCMAMAGSILVTGSRDTTLRVWDVESGRHLATLHGHHAAVRCVQFDGTTVVSGGYDFTVKIWNAHTGRCIRTLTGHNNRVYSLLFESERSIVCSGSLDTSIRVWDFTRPEGQECVALLQGHTSLTSGMQLRGNILVSCNADSHVRVWDIHEGTCVHMLSGHRSAITSLQWFGRNMVATSSDDGTVKLWDIERGALIRDLVTLDSGGNGGCIWRLCSTSTMLACAVGSRNNTEETKVILLDFDAVYP |
| 3657 | sp|Q15393|SF3B3\_HUMAN | MFLYNLTLQRATGISFAIHGNFSGTKQQEIVVSRGKILELLRPDPNTGKVHTLLTVEVFGVIRSLMAFRLTGGTKDYIVVGSDSGRIVILEYQPSKNMFEKIHQETFGKSGCRRIVPGQFLAVDPKGRAVMISAIEKQKLVYILNRDAAARLTISSPLEAHKANTLVYHVVGVDVGFENPMFACLEMDYEEADNDPTGEAAANTQQTLTFYELDLGLNHVVRKYSEPLEEHGNFLITVPGGSDGPSGVLICSENYITYKNFGDQPDIRCPIPRRRNDLDDPERGMIFVCSATHKTKSMFFFLAQTEQGDIFKITLETDEDMVTEIRLKYFDTVPVAAAMCVLKTGFLFVASEFGNHYLYQIAHLGDDDEEPEFSSAMPLEEGDTFFFQPRPLKNLVLVDELDSLSPILFCQIADLANEDTPQLYVACGRGPRSSLRVLRHGLEVSEMAVSELPGNPNAVWTVRRHIEDEFDAYIIVSFVNATLVLSIGETVEEVTDSGFLGTTPTLSCSLLGDDALVQVYPDGIRHIRADKRVNEWKTPGKKTIVKCAVNQRQVVIALTGGELVYFEMDPSGQLNEYTERKEMSADVVCMSLANVPPGEQRSRFLAVGLVDNTVRIISLDPSDCLQPLSMQALPAQPESLCIVEMGGTEKQDELGERGSIGFLYLNIGLQNGVLLRTVLDPVTGDLSDTRTRYLGSRPVKLFRVRMQGQEAVLAMSSRSWLSYSYQSRFHLTPLSYETLEFASGFASEQCPEGIVAISTNTLRILALEKLGAVFNQVAFPLQYTPRKFVIHPESNNLIIIETDHNAYTEATKAQRKQQMAEEMVEAAGEDERELAAEMAAAFLNENLPESIFGAPKAGNGQWASVIRVMNPIQGNTLDLVQLEQNEAAFSVAVCRFSNTGEDWYVLVGVAKDLILNPRSVAGGFVYTYKLVNNGEKLEFLHKTPVEEVPAAIAPFQGRVLIGVGKLLRVYDLGKKKLLRKCENKHIANYISGIQTIGHRVIVSDVQESFIWVRYKRNENQLIIFADDTYPRWVTTASLLDYDTVAGADKFGNICVVRLPPNTNDEVDEDPTGNKALWDRGLLNGASQKAEVIMNYHVGETVLSLQKTTLIPGGSESLVYTTLSGGIGILVPFTSHEDHDFFQHVEMHLRSEHPPLCGRDHLSFRSYYFPVKNVIDGDLCEQFNSMEPNKQKNVSEELDRTPPEVSKKLEDIRTRYAF |
| 3658 | sp|Q8SQC1|SCRB1\_PIG | MGSRSRARQVAAALGFVGLLLAALGAVMIVMVPSIIKQQVLKNVRIDPSSLSFNMWKEIPVPFYLSVYFFDVINPNEILQGQKPQVRERGPYVYREFRHKSNITFNDNDTVSFLEYRSYQFQPHKSRGLESDYIVIPNILVLSASVMMEDRPMSLKLIMTFAFSALGERAFVNRTVGEIMWGYEDPLIHLINKYFPNMFPFKGKFGLFAELNNSDSGLFTVFTGVKDFSRIHLVDKWNGLSKVNFWHSDQCNMINGTSGQMWAPFMTPESSLEFYSPEACRSMKLIYKEQGVFEGIPTFRFVAPNTLFANGSVYPPNEGFCPCMESGIQNVSTCRFNAPLFLSHPHFYNADPVLAEAVSGLHPNTEEHSLFLDIHPVTGIPMNCSVKLQLSLYIKSVKGIGQTGKIEPVVLPLLWFAESGAMEGETLQTFYTQLVLMPKVLHYAQYVLLALGCVLLFIPIVYQIRSQEKCYLFWSSSKKGSKDKEAIQAYSESLMTPAPKGTVLQEARL |
| 3659 | sp|Q9V3J4|SEC13\_DROME | MVSLLQEIDTEHEDMVHHAALDFYGLLLATCSSDGSVRIFHSRKNNKALAELKGHQGPVWQVAWAHPKFGNILASCSYDRKVIVWKSTTPRDWTKLYEYSNHDSSVNSVDFAPSEYGLVLACASSDGSVSVLTCNTEYGVWDAKKIPNAHTIGVNAISWCPAQAPDPAFDQRVTSRSAAVKRLVSGGCDNLVKIWREDNDRWVEEHRLEAHSDWVRDVAWAPSIGLPRSQIATASQDRHVIVWSSNADLSEWTSTVLHTFDDAVWSISWSTTGNILAVTGGDNNVTLWKENTEGQWIRINYESGTAIQSKQPSHLPHSHSQQQQALQQHQQQAPSHPGPSSDSEHSSNLSNSQLSN |
| 3660 | sp|O75326|SEM7A\_HUMAN | MTPPPPGRAAPSAPRARVPGPPARLGLPLRLRLLLLLWAAAASAQGHLRSGPRIFAVWKGHVGQDRVDFGQTEPHTVLFHEPGSSSVWVGGRGKVYLFDFPEGKNASVRTVNIGSTKGSCLDKRDCENYITLLERRSEGLLACGTNARHPSCWNLVNGTVVPLGEMRGYAPFSPDENSLVLFEGDEVYSTIRKQEYNGKIPRFRRIRGESELYTSDTVMQNPQFIKATIVHQDQAYDDKIYYFFREDNPDKNPEAPLNVSRVAQLCRGDQGGESSLSVSKWNTFLKAMLVCSDAATNKNFNRLQDVFLLPDPSGQWRDTRVYGVFSNPWNYSAVCVYSLGDIDKVFRTSSLKGYHSSLPNPRPGKCLPDQQPIPTETFQVADRHPEVAQRVEPMGPLKTPLFHSKYHYQKVAVHRMQASHGETFHVLYLTTDRGTIHKVVEPGEQEHSFAFNIMEIQPFRRAAAIQTMSLDAERRKLYVSSQWEVSQVPLDLCEVYGGGCHGCLMSRDPYCGWDQGRCISIYSSERSVLQSINPAEPHKECPNPKPDKAPLQKVSLAPNSRYYLSCPMESRHATYSWRHKENVEQSCEPGHQSPNCILFIENLTAQQYGHYFCEAQEGSYFREAQHWQLLPEDGIMAEHLLGHACALAASLWLGVLPTLTLGLLVH |
| 3661 | sp|Q939U1|SOXA\_RHOSU | MKTMTGRLVAAALVCGGAFSGAAVSAGPDDPLVINGEIEIVTRAPTPAHLADRFDEIRSGWTFRTDDTQALEMDDFENSGMVFVEEARAVWDRPEGTEGKACADCHGAVDDGMYGLRAVYPKYVESAGKVRTVEQMINACRTSRMGAPEWDYIGPDMTAMVALIASVSRGMPVSVAIDGPAQSTWEKGREIYYTRYGQLDLSCASCHEQYFDHYIRADHLSQGQINGFPSYRLKNARLNAVHDRFRGCIRDTRGVPFAVGSPEFVALELYVASRGNGLSVEGPSVRN |
| 3662 | sp|Q9BUD6|SPON2\_HUMAN | MENPSPAAALGKALCALLLATLGAAGQPLGGESICSARALAKYSITFTGKWSQTAFPKQYPLFRPPAQWSSLLGAAHSSDYSMWRKNQYVSNGLRDFAERGEAWALMKEIEAAGEALQSVHEVFSAPAVPSGTGQTSAELEVQRRHSLVSFVVRIVPSPDWFVGVDSLDLCDGDRWREQAALDLYPYDAGTDSGFTFSSPNFATIPQDTVTEITSSSPSHPANSFYYPRLKALPPIARVTLVRLRQSPRAFIPPAPVLPSRDNEIVDSASVPETPLDCEVSLWSSWGLCGGHCGRLGTKSRTRYVRVQPANNGSPCPELEEEAECVPDNCV |
| 3663 | sp|P32828|SLX5\_YEAST | MHSDTNGRTKSNNSPSDNNPNETVILIDSDKEEDASIREANLPVRLYPDRRVGRRRDALNRFVRSDSRSRNSQRTHITASSERPDFQANNDDITIIREVGRFFGDDGPIDPSAHYVDLDQEPGSETLETPRTIQVDNTNGYLNDNGNNNESDDGLTIVEERTTRPRVTLNLPGGERLEVTATTTDIPIRRSFEFQEDLGASRRQLLRRSATRARNLFVDRSDENDEDWTDDTHNLPEAIQRARRESRMRMSRRIAERQRRVQQQRVSSDENISTSIRLQSIRERIQSYTPDIRSAFHRAESLHEFRSILQNVAPITLQECEEELMALFTEFRNQLLQNWAIDRVRNTQEEALRLHREALERQERTAGRVFHRGTLRESITNYLNFNGEDGFLSRLWSGPALSDADEERHTQNIIDMIQEREERERDVVMKNLMNKTRAQQEEFEARAASLPEGYSASFDTTPKMKLDITKNGKEETIIVTDDDLAKTLEDIPVCCLCGAELGVGIPDDFTGISQKDRGVSFEGLVSKYKFHCPYQTLARPSMLDRDLSKRTFIASCGHAFCGRCFARIDNAKKKSKMPKKKLAQLKGSAHPDNYGPKLCPADSCKKLIRSRGRLKEVYF |
| 3664 | sp|Q8K1S6|SPIR2\_MOUSE | MARAGGGGAAAPERAGGAARPEPWELSLEEVLKVYEQPINEEQAWAVCFQGCRGLRGEPGGVRRIRDTADILLRRDGSVGARLEPEPTTMVVPPASSEAQMVQSLGFAIYRALDWGLDENEERELSPQLERLIDLMANSDCEDSSCGAADEGYVGPEEEEEAEGGPRAVRTFAQAMRLCALRLTDPHGAQAHYQAVCRALFVETLELRAFLARVREAKEMLKKLGEEEPREKPLAELDHLGHTDWARLWVQLMRELRHGVKLKKVQEKEFNPLPTEFQLTPFEMLMQDIRARNYKLRKVMVDGDIPPRVKKDAHELILDFIRSRPPLKQVSERQLRPVPQKQRTLHEKILEEIKQERRLRPVGAQHLGGRGFGSLPCILNACSGDIKSTSCINLSVTDTGSGSQRPRPRVLLKAPTLAEMEEMNTSEEEESPCGEVALKRDRSFSEHDLAQLRSEMASGLQSAAQPPGGTEPPRARAGSMHSWRPSSRDQGFCPVSGQSQPLPSSALPSSLSSVDGPEAASPDTRHLWLEFSHPVESLALTVEEVVDVRRVLVKAEMERFLQDKELFSSLKRGKICCCCRAKFPLFSWPPTCLFCKRAVCTSCSVKMKMPSKKYGHIPVYTLGFESLQRVPTTKATPTLRRDAFQSLQGPKWRSVEEEFPHIYAHGCVLKDVCSDCTSFVADVVCSSRKSVDVLNATPRRSRQTQSLYIPNTRTLNFQ |
| 3665 | sp|P08998|SOMA\_CHICK | MAPGSWFSPLLIAVVTLGLPQEAAATFPAMPLSNLFANAVLRAQHLHLLAAETYKEFERTYIPEDQRYTNKNSQAAFCYSETIPAPTGKDDAQQKSDMELLRFSLVLIQSWLTPVQYLSKVFTNNLVFGTSDRVFEKLKDLEEGIQALMRELEDRSPRGPQLLRPTYDKFDIHLRNEDALLKNYGLLSCFKKDLHKVETYLKVMKCRRFGESNCTI |
| 3666 | sp|Q9NTJ3|SMC4\_HUMAN | MPRKGTQPSTARRREEGPPPPSPDGASSDAEPEPPSGRTESPATAAETASEELDNRSLEEILNSIPPPPPPAMTNEAGAPRLMITHIVNQNFKSYAGEKILGPFHKRFSCIIGPNGSGKSNVIDSMLFVFGYRAQKIRSKKLSVLIHNSDEHKDIQSCTVEVHFQKIIDKEGDDYEVIPNSNFYVSRTACRDNTSVYHISGKKKTFKDVGNLLRSHGIDLDHNRFLILQGEVEQIAMMKPKGQTEHDEGMLEYLEDIIGCGRLNEPIKVLCRRVEILNEHRGEKLNRVKMVEKEKDALEGEKNIAIEFLTLENEIFRKKNHVCQYYIYELQKRIAEMETQKEKIHEDTKEINEKSNILSNEMKAKNKDVKDTEKKLNKITKFIEENKEKFTQLDLEDVQVREKLKHATSKAKKLEKQLQKDKEKVEEFKSIPAKSNNIINETTTRNNALEKEKEKEEKKLKEVMDSLKQETQGLQKEKESREKELMGFSKSVNEARSKMDVAQSELDIYLSRHNTAVSQLTKAKEALIAASETLKERKAAIRDIEGKLPQTEQELKEKEKELQKLTQEETNFKSLVHDLFQKVEEAKSSLAMNRSRGKVLDAIIQEKKSGRIPGIYGRLGDLGAIDEKYDVAISSCCHALDYIVVDSIDIAQECVNFLKRQNIGVATFIGLDKMAVWAKKMTEIQTPENTPRLFDLVKVKDEKIRQAFYFALRDTLVADNLDQATRVAYQKDRRWRVVTLQGQIIEQSGTMTGGGSKVMKGRMGSSLVIEISEEEVNKMESQLQNDSKKAMQIQEQKVQLEERVVKLRHSEREMRNTLEKFTASIQRLIEQEEYLNVQVKELEANVLATAPDKKKQKLLEENVSAFKTEYDAVAEKAGKVEAEVKRLHNTIVEINNHKLKAQQDKLDKINKQLDECASAITKAQVAIKTADRNLQKAQDSVLRTEKEIKDTEKEVDDLTAELKSLEDKAAEVVKNTNAAEESLPEIQKEHRNLLQELKVIQENEHALQKDALSIKLKLEQIDGHIAEHNSKIKYWHKEISKISLHPIEDNPIEEISVLSPEDLEAIKNPDSITNQIALLEARCHEMKPNLGAIAEYKKKEELYLQRVAELDKITYERDSFRQAYEDLRKQRLNEFMAGFYIITNKLKENYQMLTLGGDAELELVDSLDPFSEGIMFSVRPPKKSWKKIFNLSGGEKTLSSLALVFALHHYKPTPLYFMDEIDAALDFKNVSIVAFYIYEQTKNAQFIIISLRNNMFEISDRLIGIYKTYNITKSVAVNPKEIASKGLC |
| 3667 | sp|Q08AE8|SPIR1\_HUMAN | MAQAAGPAGGGEPRTEAVGGEGPREPGAAGGAAGGSRDALSLEEILRLYNQPINEEQAWAVCYQCCGSLRAAARRRQPRHRVRSAAQIRVWRDGAVTLAPAADDAGEPPPVAGKLGYSQCMETEVIESLGIIIYKALDYGLKENEERELSPPLEQLIDHMANTVEADGSNDEGYEAAEEGLGDEDEKRKISAIRSYRDVMKLCAAHLPTESDAPNHYQAVCRALFAETMELHTFLTKIKSAKENLKKIQEMEKSDESSTDLEELKNADWARFWVQVMRDLRNGVKLKKVQERQYNPLPIEYQLTPYEMLMDDIRCKRYTLRKVMVNGDIPPRLKKSAHEIILDFIRSRPPLNPVSARKLKPTPPRPRSLHERILEEIKAERKLRPVSPEEIRRSRLAMRPLSMSYSFDLSDVTTPESTKNLVESSMVNGGLTSQTKENGLSTSQQVPAQRKKLLRAPTLAELDSSESEEETLHKSTSSSSVSPSFPEEPVLEAVSTRKKPPKFLPISSTPQPERRQPPQRRHSIEKETPTNVRQFLPPSRQSSRSLEEFCYPVECLALTVEEVMHIRQVLVKAELEKYQQYKDIYTALKKGKLCFCCRTRRFSFFTWSYTCQFCKRPVCSQCCKKMRLPSKPYSTLPIFSLGPSALQRGESSMRSEKPSTAHHRPLRSIARFSSKSKSMDKSDEELQFPKELMEDWSTMEVCVDCKKFISEIISSSRRSLVLANKRARLKRKTQSFYMSSPGPSEYCPSERTISEI |
| 3668 | sp|Q8TAD8|SNIP1\_HUMAN | MKAVKSERERGSRRRHRDGDVVLPAGVVVKQERLSPEVAPPAHRRPDHSGGSPSPPTSEPARSGHRGNRARGVSRSPPKKKNKASGRRSKSPRSKRNRSPHHSTVKVKQEREDHPRRGREDRQHREPSEQEHRRARNSDRDRHRGHSHQRRTSNERPGSGQGQGRDRDTQNLQAQEEEREFYNARRREHRQRNDVGGGGSESQELVPRPGGNNKEKEVPAKEKPSFELSGALLEDTNTFRGVVIKYSEPPEARIPKKRWRLYPFKNDEVLPVMYIHRQSAYLLGRHRRIADIPIDHPSCSKQHAVFQYRLVEYTRADGTVGRRVKPYIIDLGSGNGTFLNNKRIEPQRYYELKEKDVLKFGFSSREYVLLHESSDTSEIDRKDDEDEEEEEEVSDS |
| 3669 | sp|Q9UPR3|SMG5\_HUMAN | MSQGPPTGESSEPEAKVLHTKRLYRAVVEAVHRLDLILCNKTAYQEVFKPENISLRNKLRELCVKLMFLHPVDYGRKAEELLWRKVYYEVIQLIKTNKKHIHSRSTLECAYRTHLVAGIGFYQHLLLYIQSHYQLELQCCIDWTHVTDPLIGCKKPVSASGKEMDWAQMACHRCLVYLGDLSRYQNELAGVDTELLAERFYYQALSVAPQIGMPFNQLGTLAGSKYYNVEAMYCYLRCIQSEVSFEGAYGNLKRLYDKAAKMYHQLKKCETRKLSPGKKRCKDIKRLLVNFMYLQSLLQPKSSSVDSELTSLCQSVLEDFNLCLFYLPSSPNLSLASEDEEEYESGYAFLPDLLIFQMVIICLMCVHSLERAGSKQYSAAIAFTLALFSHLVNHVNIRLQAELEEGENPVPAFQSDGTDEPESKEPVEKEEEPDPEPPPVTPQVGEGRKSRKFSRLSCLRRRRHPPKVGDDSDLSEGFESDSSHDSARASEGSDSGSDKSLEGGGTAFDAETDSEMNSQESRSDLEDMEEEEGTRSPTLEPPRGRSEAPDSLNGPLGPSEASIASNLQAMSTQMFQTKRCFRLAPTFSNLLLQPTTNPHTSASHRPCVNGDVDKPSEPASEEGSESEGSESSGRSCRNERSIQEKLQVLMAEGLLPAVKVFLDWLRTNPDLIIVCAQSSQSLWNRLSVLLNLLPAAGELQESGLALCPEVQDLLEGCELPDLPSSLLLPEDMALRNLPPLRAAHRRFNFDTDRPLLSTLEESVVRICCIRSFGHFIARLQGSILQFNPEVGIFVSIAQSEQESLLQQAQAQFRMAQEEARRNRLMRDMAQLRLQLEVSQLEGSLQQPKAQSAMSPYLVPDTQALCHHLPVIRQLATSGRFIVIIPRTVIDGLDLLKKEHPGARDGIRYLEAEFKKGNRYIRCQKEVGKSFERHKLKRQDADAWTLYKILDSCKQLTLAQGAGEEDPSGMVTIITGLPLDNPSVLSGPMQAALQAAAHASVDIKNVLDFYKQWKEIG |
| 3670 | sp|Q6R2K3|SRF3\_ARATH | MAAKRSIYCLLLLPLLLSLLIWIPSISLAATNPDDVAAINGLFAALGAPVLPGWIASGGDPCGEAWQGIICNVSDIISITVNAANLQGELGDNLAKFTSIRGIDFSNNRIGGSIPSTLPVTLQHFFLSANQFTGSIPESLGTLSFLNDMSLNDNLLSGELPDVFQNLVGLINLDISSNNISGTLPPSMENLLTLTTLRVQNNQLSGTLDVLQGLPLQDLNIENNLFSGPIPDKLLSIPKFLHEGNPFNATMINSTSTAPSLSPSLSPTKPAPTRPFSGVPPPPNERNRGKVADGPSDSEGSSSENSKGKNSSHTKKIILIAFAGVLVFIILVLAILLLLPKCARRREHANRVFKPHQVGADRGSRENALENGTPVLPPPGRSEKVQREPFKKAGEEPKVLHDLERLRRPAPISRQESQDIDFSMLMPPPPPPPPPPPPPPLDEKVTVMPIISPERPVKKTSPKRLPLTSVKHYSIASLQQYTESFAQENLIGSGMLGSVYRARLPNGKLFAVKKLDKRASEQQQDHEFIELVNNIDMIRHSNIVELVGYCAEHDQRLLVYEYCSNGTLQDGLHSDDEFKKKLSWNTRVSMALGAARALEYLHEVCEPPIIHRNFKSANVLLDDDLSVLVSDCGLAPLISSGSVSQLSGQLLAAYGYGAPEFDSGIYTWQSDVYSFGVVMLELLTGRMSYDRDRSRGEQFLVRWAIPQLHDIDALGKMVDPSLNGQYPAKSLSHFADIISRCVQSEPEFRPLMSEVVQDLLDMIRRERHGSGDSTAD |
| 3671 | sp|Q8TEV9|SMCR8\_HUMAN | MISAPDVVAFTKEEEYEEEPYNEPALPEEYSVPLFPFASQGANPWSKLSGAKFSRDFILISEFSEQVGPQPLLTIPNDTKVFGTFDLNYFSLRIMSVDYQASFVGHPPGSAYPKLNFVEDSKVVLGDSKEGAFAYVHHLTLYDLEARGFVRPFCMAYISADQHKIMQQFQELSAEFSRASECLKTGNRKAFAGELEKKLKDLDYTRTVLHTETEIQKKANDKGFYSSQAIEKANELASVEKSIIEHQDLLKQIRSYPHRKLKGHDLCPGEMEHIQDQASQASTTSNPDESADTDLYTCRPAYTPKLIKAKSTKCFDKKLKTLEELCDTEYFTQTLAQLSHIEHMFRGDLCYLLTSQIDRALLKQQHITNFLFEDFVEVDDRMVEKQESIPSKPSQDRPPSSSLEECPIPKVLISVGSYKSSVESVLIKMEQELGDEEYKEVEVTELSSFDPQENLDYLDMDMKGSISSGESIEVLGTEKSTSVLSKSDSQASLTVPLSPQVVRSKAVSHRTISEDSIEVLSTCPSEALIPDDFKASYPSAINEEESYPDGNEGAIRFQASISPPELGETEEGSIENTPSQIDSSCCIGKESDGQLVLPSTPAHTHSDEDGVVSSPPQRHRQKDQGFRVDFSVENANPSSRDNSCEGFPAYELDPSHLLASRDISKTSLDNYSDTTSYVSSVASTSSDRIPSAYPAGLSSDRHKKRAGQNALKFIRQYPFAHPAIYSLLSGRTLVVLGEDEAIVRKLVTALAIFVPSYGCYAKPVKHWASSPLHIMDFQKWKLIGLQRVASPAGAGTLHALSRYSRYTSILDLDNKTLRCPLYRGTLVPRLADHRTQIKRGSTYYLHVQSMLTQLCSKAFLYTFCHHLHLPTHDKETEELVASRQMSFLKLTLGLVNEDVRVVQYLAELLKLHYMQESPGTSHPMLRFDYVPSFLYKI |
| 3672 | sp|Q09167|SRSF5\_RAT | MSGCRVFIGRLNPAAREKDVERFFKGYGRIRDIDLKRGFGFVEFEDPRDADDAVYELDGKELCSERVTIEHARARSRGGRGRGRYSDRFSSRRPRNDRRNAPPVRTENRLIVENLSSRVSWQDLKDFMRQAGEVTFADAHRPKLNEGVVEFASYGDLKNAIEKLSGKEINGRKIKLIEGSKRHRSRSRSRSRTRSSSRSRSRSRSRRSKSYSRSRSRSRSRSKSRSGSRSPVPEKSQKRGSSSRSKSPASVDRQRSRSRSRSRSVDSGN |
| 3673 | sp|P38925|SMF1\_YEAST | MVNVGPSHAAVAVDASEARKRNISEEVFELRDKKDSTVVIEGEAPVRTFTSSSSNHEREDTYVSKRQVMRDIFAKYLKFIGPGLMVSVAYIDPGNYSTAVDAGASNQFSLLCIILLSNFIAIFLQCLCIKLGSVTGLDLSRACREYLPRWLNWTLYFFAECAVIATDIAEVIGTAIALNILIKVPLPAGVAITVVDVFLIMFTYKPGASSIRFIRIFECFVAVLVVGVCICFAIELAYIPKSTSVKQVFRGFVPSAQMFDHNGIYTAISILGATVMPHSLFLGSALVQPRLLDYDVKHGNYTVSEEQDKVKKSKSTEEIMEEKYFNYRPTNAAIKYCMKYSMVELSITLFTLALFVNCAILVVAGSTLYNSPEADGADLFTIHELLSRNLAPAAGTIFMLALLLSGQSAGVVCTMSGQIVSEGHINWKLQPWQRRLATRCISIIPCLVISICIGREALSKALNASQVVLSIVLPFLVAPLIFFTCKKSIMKTEITVDHTEEDSHNHQNNNDRSAGSVIEQDGSSGMEIENGKDVKIVYMANNWIITVIAIIVWLFLSLLNVYAIVQLGMSHGDIS |
| 3674 | sp|E2RG47|STT3B\_CANLF | MAEPSAPESKHKSSLNSSPWSGLMALGNSRHGHHGPGAQCAHKAAGGVAPPKPAPAGLSGGLSQPAGWQSLLSFTILFLAWLAGFSSRLFAVIRFESIIHEFDPWFNYRSTHHLASHGFYEFLNWFDERAWYPLGRIVGGTVYPGLMITAGLIHWILNTLNITVHIRDVCVFLAPTFSGLTSISTFLLTRELWNQGAGLLAACFIAIVPGYISRSVAGSFDNEGIAIFALQFTYYLWVKSVKTGSVFWTMCCCLSYFYMVSAWGGYVFIINLIPLHVFVLLLMQRYSKRVYIAYSTFYIVGLILSMQIPFVGFQPIRTSEHMAAAGVFALLQAYAFLQYLRDRLTKQEFQTLFFLGVSLAAGAVFLSVIYLTYTGYIAPWSGRFYSLWDTGYAKIHIPIIASVSEHQPTTWVSFFFDLHILVCTFPAGLWFCIKNINDERVFVALYAISAVYFAGVMVRLMLTLTPVVCMLSAIAFSNVFEHYLGDDMKRENPPVEDSSDEDDKRNPGNLYDKAGKVRKHVTEQEKTEEGLGPNIKSIVTMLMLMLLMMFAVHCTWVTSNAYSSPSVVLASYNHDGTRNILDDFREAYFWLRQNTDEHARVMSWWDYGYQIAGMANRTTLVDNNTWNNSHIALVGKAMSSNESAAYKIMRSLDVDYVLVIFGGVIGYSGDDINKFLWMVRIAEGEHPKDIRESDYFTPQGEFRVDKAGSPTLLNCLMYKMSYYRFGEMQLDFRTPPGFDRTRNAEIGNKDIKFKHLEEAFTSEHWLVRIYKVKAPDNRETLDHKPRVTNIFPKQKYLSKKTTKRKRGYIKNKLVFKKGKKISKKTV |
| 3675 | sp|Q9ZV02|SWET9\_ARATH | MFLKVHEIAFLFGLLGNIVSFGVFLSPVPTFYGIYKKKSSKGFQSIPYICALASATLLLYYGIMKTHAYLIISINTFGCFIEISYLFLYILYAPREAKISTLKLIVICNIGGLGLLILLVNLLVPKQHRVSTVGWVCAAYSLAVFASPLSVMRKVIKTKSVEYMPFLLSLSLTLNAVMWFFYGLLIKDKFIAMPNILGFLFGVAQMILYMMYQGSTKTDLPTENQLANKTDVNEVPIVAVELPDVGSDNVEGSVRPMK |
| 3676 | sp|O43597|SPY2\_HUMAN | MEARAQSGNGSQPLLQTPRDGGRQRGEPDPRDALTQQVHVLSLDQIRAIRNTNEYTEGPTVVPRPGLKPAPRPSTQHKHERLHGLPEHRQPPRLQHSQVHSSARAPLSRSISTVSSGSRSSTRTSTSSSSSEQRLLGSSFSSGPVADGIIRVQPKSELKPGELKPLSKEDLGLHAYRCEDCGKCKCKECTYPRPLPSDWICDKQCLCSAQNVIDYGTCVCCVKGLFYHCSNDDEDNCADNPCSCSQSHCCTRWSAMGVMSLFLPCLWCYLPAKGCLKLCQGCYDRVNRPGCRCKNSNTVCCKVPTVPPRNFEKPT |
| 3677 | sp|Q9FGQ2|SWT13\_ARATH | MALTNNLWAFVFGILGNIISFVVFLAPVPTFVRICKKKSTEGFQSLPYVSALFSAMLWIYYAMQKDGTAFLLITINAFGCVIETIYIVLFVSYANKKTRISTLKVLGLLNFLGFAAIVLVCELLTKGSTREKVLGGICVGFSVSVFAAPLSIMRVVVRTRSVEFMPFSLSLFLTISAVTWLFYGLAIKDFYVALPNVLGAFLGAVQMILYIIFKYYKTPVAQKTDKSKDVSDHSIDIAKLTTVIPGAVLDSAVHQPPALHNVPETKIQLTEVKSQNMTDPKDQINKDVQKQSQV |
| 3678 | sp|P31391|SSR4\_HUMAN | MSAPSTLPPGGEEGLGTAWPSAANASSAPAEAEEAVAGPGDARAAGMVAIQCIYALVCLVGLVGNALVIFVILRYAKMKTATNIYLLNLAVADELFMLSVPFVASSAALRHWPFGSVLCRAVLSVDGLNMFTSVFCLTVLSVDRYVAVVHPLRAATYRRPSVAKLINLGVWLASLLVTLPIAIFADTRPARGGQAVACNLQWPHPAWSAVFVVYTFLLGFLLPVLAIGLCYLLIVGKMRAVALRAGWQQRRRSEKKITRLVLMVVVVFVLCWMPFYVVQLLNLFVTSLDATVNHVSLILSYANSCANPILYGFLSDNFRRFFQRVLCLRCCLLEGAGGAEEEPLDYYATALKSKGGAGCMCPPLPCQQEALQPEPGRKRIPLTRTTTF |
| 3679 | sp|Q9Z158|STX17\_RAT | MSEDEEKVKLRRLEPAIQKFTKIVIPTDLERLKKHQINIEKYQRCRIWDKLHEEHINAGRTVQQLRSNIREMEKLCLKVHKDDLILLKRMIDPMKEAAAAATAEFLQLHLESVEELKKQVKNEEALLQPSLTRSTTIDGVHTGEAEAASQSLTQIYALPEIPRDQNAAESWETLEADLIELSHLVTDMSLLVNSQQEKIDSIADHVNSAAVNVEEGTKNLQKAAKYKLAALPVAGAVIGGVVGGPIGLLAGFKVAGIAAALGGGVLGFTGGKLIQRRKQKMMEKLTSSCPDLPSQSDKKCS |
| 3680 | sp|Q6NN85|SSH\_DROME | MALVTVQRSPSVAGSCSNSDGESEDDEGNSKGNDRSECFFAGKGTALVLALKDIPPLTQSERRLSTDSTRSSNSTQSNNSDIQLHLQSMFYLLQREDTLKMAVKLESQRSNRTRYLVIASRSCCRSGTSDRRRHRIMRHHSVKVGGSAGTKSSTSPAVPTQRQLSVEQTATEASSKCDKTADKENATAAGDNKNTSGMEESCLLGIDCNERTTIGLVVPILADTTIHLDGDGGFSVKVYEKTHIFKPVSVQAMWSALQTLHKVSKKARENNFYASGPSHDWLSSYERRIESDQSCLNEWNAMDALESRRPPSPDAIRNKPPEKEETESVIKMKLKAIMMSVDLDEVTSKYIRGRLEEILDMDLGEYKSFIDAEMLVILGQMDAPTKIFEHVYLGSEWNASNLEELQKNGVRHILNVTREIDNFFPGTFEYFNVRVYDDEKTNLLKYWDDTFRYITRAKAEGSKVLVHCKMGVSRSASVVIAYAMKAYQWEFQQALEHVKKRRSCIKPNKNFLNQLETYSGMLDAMKNKEKLQRSKSETNLKSTKDARLLPGSEPTPLIQALNQAKSKSTGEAGVTPDGEEEDGSRMHRRSIAQKSQRRMVRRSSSTSPKTQTAVVTKQQSQSMENLTPERSVAEEPKNMRFPGSNGENYSVTQNQVLHIQKHTPLSVRTRIHDLEAHRADQLPQQPVWTSLTKLITQTSHLGKSVSGSSSGNIDSRRDSSCSDVFSSQVDSVFAKDEGEKRQRRKTHSWTESLGPSGGIVLDPTPQQQKQQSNAILRPRGTRQRELPSRHASWGSGDNRCCLPQRTSSGSYYDSNRNTTAIFEGVIQDLKRSSNCNVIEGVAVAVEPIVGVGEGTVKRTKQKLEESTSLKKRCQEESQELLLEAVDAGQRRCPSLYRSASSAHSPRQRQPLRCNSEELMHTSDIENKNTTPGDHEATVVLRVQGQTLADDQRISGNVQILKQNFEAKAGVVGTGGGGGGGTAAGSGSSSTIATSVSAVAGACSANPGKKTTSHQSLPSSPVAQHANHVSAASNSNSSASNSSDSS |
| 3681 | sp|P53597|SUCA\_HUMAN | MTATLAAAADIATMVSGSSGLAAARLLSRSFLLPQNGIRHCSYTASRQHLYVDKNTKIICQGFTGKQGTFHSQQALEYGTKLVGGTTPGKGGQTHLGLPVFNTVKEAKEQTGATASVIYVPPPFAAAAINEAIEAEIPLVVCITEGIPQQDMVRVKHKLLRQEKTRLIGPNCPGVINPGECKIGIMPGHIHKKGRIGIVSRSGTLTYEAVHQTTQVGLGQSLCVGIGGDPFNGTDFIDCLEIFLNDSATEGIILIGEIGGNAEENAAEFLKQHNSGPNSKPVVSFIAGLTAPPGRRMGHAGAIIAGGKGGAKEKISALQSAGVVVSMSPAQLGTTIYKEFEKRKML |
| 3682 | sp|Q3ULF4|SPG7\_MOUSE | MAAALLLLRGLRPGPEPRPRRLWGLLSGRGPGLSSGAGARRPYAARGTPVGPAAAGGHAPQSLLLRILTPSFEGISGLLLKQHIVPNAVRLWPLSGSTLYFNTSRMKQKNKDNDKPKGKTPEDDEEEKRRKEREDQMYRERLRTLFIIALVMSLLNSLSTSGGSISWADFVNEMLAKGEVQRVQVVPESDVVEVYLHPGAVVFGRPRLALMYRMQVANIDKFEEKLRAAEDELNIESKDRIPVSYKRTGFFGNALYALGMTAVGLAILWYVFRLAGMTGREGGFSAFNQLKMARFTIVDGKTGKGVSFQDVAGMHEAKLEVREFVDYLKSPERFLQLGAKVPKGALLLGPPGCGKTLLAKAVATEAQVPFLAMAGPEFVEVIGGLGAARVRSLFKEARARAPCIVYIDEIDAVGKKRSTSMSGFSNTEEEQTLNQLLVEMDGMGTTDHVIVLASTNRADVLDNALMRPGRLDRHVFIDLPTLQERREIFEQHLKGLKLTQPSSFYSQRLAELTPGFSGADIANICNEAALHAAREGHTSVHTFNFEYAVERVIAGTAKKSKILSKEEQRVVAFHESGHALVGWLLEHTEAVMKVSIAPRTNAALGFSQMLPRDQYLFTKEQLFERMCMALGGRAAEAISFSRVTSGAQDDLRKVTRIAYSMVKQFGMAPSIGPVSFPEAQEGLMGIGRRPFSQGLQQMMDHEAKLLVAKAYRHTEKVLLDNLDKLQALANALLEKEVINYEDIEALIGPPPHGPKKMIAPQKWIDAEKERQASGEEEAPAP |
| 3683 | sp|O80605|SUC3\_ARATH | MSDSVSISVPYRNLRKEIELETVTKHRQNESGSSSFSESASPSNHSDSADGESVSKNCSLVTLVLSCTVAAGVQFGWALQLSLLTPYIQTLGISHAFSSFIWLCGPITGLVVQPFVGIWSDKCTSKYGRRRPFILVGSFMISIAVIIIGFSADIGYLLGDSKEHCSTFKGTRTRAAVVFIIGFWLLDLANNTVQGPARALLADLSGPDQRNTANAVFCLWMAIGNILGFSAGASGKWQEWFPFLTSRACCAACGNLKAAFLLAVVFLTICTLVTIYFAKEIPFTSNKPTRIQDSAPLLDDLQSKGLEHSKLNNGTANGIKYERVERDTDEQFGNSENEHQDETYVDGPGSVLVNLLTSLRHLPPAMHSVLIVMALTWLSWFPFFLFDTDWMGREVYHGDPTGDSLHMELYDQGVREGALGLLLNSVVLGISSFLIEPMCQRMGARVVWALSNFTVFACMAGTAVISLMSLSDDKNGIEYIMRGNETTRTAAVIVFALLGFPLAITYSVPFSVTAEVTADSGGGQGLAIGVLNLAIVIPQMIVSLGAGPWDQLFGGGNLPAFVLASVAAFAAGVIALQRLPTLSSSFKSTGFHIG |
| 3684 | sp|Q4V7G1|SKAP1\_RAT | MQAIALPEEICWLLEDAEDFLAEGLQNENLSPGAQDQRDHILRGFQQIKSRYCWDFQPQGDDLGQDGSDENLSGTHGPALASDASFWSDYQEEGIDDIIRGAQELDNVIKQGYLEKKSKDHSFFGSEWQKRWCVISRGLFLYYANEKSKQPKGTFLIKGYNVRMAPHLRKDSKKDSCFELTSQDRRSYEFTAFSPAEARDWVDQISFLLKDLSSLTIPFEEEEEEEEEDKEQEEMYNDIDGFDSARSGSQGRAMALPEPLDKEEDVYEVLPDEDDLEEDACGAHRRRVDYADYYQGLWDCHGDQPDELSFQRGDLIRILSKEYNMYGWWVGELNSIIGIVPKDYLTTAFEMEGR |
| 3685 | sp|P00959|SYM\_ECOLI | MTQVAKKILVTCALPYANGSIHLGHMLEHIQADVWVRYQRMRGHEVNFICADDAHGTPIMLKAQQLGITPEQMIGEMSQEHQTDFAGFNISYDNYHSTHSEENRQLSELIYSRLKENGFIKNRTISQLYDPEKGMFLPDRFVKGTCPKCKSPDQYGDNCEVCGATYSPTELIEPKSVVSGATPVMRDSEHFFFDLPSFSEMLQAWTRSGALQEQVANKMQEWFESGLQQWDISRDAPYFGFEIPNAPGKYFYVWLDAPIGYMGSFKNLCDKRGDSVSFDEYWKKDSTAELYHFIGKDIVYFHSLFWPAMLEGSNFRKPSNLFVHGYVTVNGAKMSKSRGTFIKASTWLNHFDADSLRYYYTAKLSSRIDDIDLNLEDFVQRVNADIVNKVVNLASRNAGFINKRFDGVLASELADPQLYKTFTDAAEVIGEAWESREFGKAVREIMALADLANRYVDEQAPWVVAKQEGRDADLQAICSMGINLFRVLMTYLKPVLPKLTERAEAFLNTELTWDGIQQPLLGHKVNPFKALYNRIDMRQVEALVEASKEEVKAAAAPVTGPLADDPIQETITFDDFAKVDLRVALIENAEFVEGSDKLLRLTLDLGGEKRNVFSGIRSAYPDPQALIGRHTIMVANLAPRKMRFGISEGMVMAAGPGGKDIFLLSPDAGAKPGHQVK |
| 3686 | sp|B1Q236|SYG1\_CAEEL | MVRWQTWPLLLLFQLVTCQQLQQRIVEAPKDTLAAVGETAILTCRVEHQQGPVQWMKDDFGLGTDRDKPLPGNKRYRMVGSAANGEYNLEISNVTLFDDDDFACQISESDHAKAVVSSKAKLTVLVRPTPPKIVKSHHSLKAIAGDPITQSCLSRKGKPPPTIGWAIASDEHGKHIVSWLGESRSKFGGIHAKPEISQETVIAHVNETTQVEEGGNNSREDSSIYSIMSNLSFIPRPEDDHKYLICISQHMTFPNKIEVDSVKLSLRYAPQINLTVASKLPLRENGSALLACNVNAKPLDNVKISWYKGNQKLRETGDTLTFETLKMEDHNRDIFCEATNEIGTTRGSIKLNVAFGARIMSTSQDKEVNEGDNAFFHCATLANPAPAIFWTRGDSDEIIGHGENLTLENVRTWQQGNYNCTATVEGFRKQILSHYLHIRGPPTVSMKDEVSASLDEATEIICEISGRPKTNNVRWTVNGKEINFNNGRITVHQYPKPYGKESILKIKDLKEEDFGVYNCSANNGLGFDNRGTLLKKRNILDWIVITAKFDRMVALAIISAGVLLVSLLCCLCMCRSNCRSRKSKFIDDQSDVTVKCEALDGQYFPEMYSSSPVDNVHLSTKDYISIPQNNPDLDFLGATGSFGPPGGLYPKCFNNSANEYIYNRYEHSYGSFGSGLSTPGGVSDMYGVAMSDKLPVMETLQEVETPKTSNYNFLSSPEVVRPISRTSTHV |
| 3687 | sp|O15273|TELT\_HUMAN | MATSELSCEVSEENCERREAFWAEWKDLTLSTRPEEGCSLHEEDTQRHETYHQQGQCQVLVQRSPWLMMRMGILGRGLQEYQLPYQRVLPLPIFTPAKMGATKEEREDTPIQLQELLALETALGGQCVDRQEVAEITKQLPPVVPVSKPGALRRSLSRSMSQEAQRG |
| 3688 | sp|P40630|TFAM\_MOUSE | MALFRGMWSVLKALGRTGVEMCAGCGGRIPSSISLVCIPKCFSSMGSYPKKPMSSYLRFSTEQLPKFKAKHPDAKLSELVRKIAALWRELPEAEKKVYEADFKAEWKAYKEAVSKYKEQLTPSQLMGMEKEARQRRLKKKALVKRRELILLGKPKRPRSAYNIYVSESFQEAKDDSAQGKLKLVNEAWKNLSPEEKQAYIQLAKDDRIRYDNEMKSWEEQMAEVGRSDLIRRSVKRSGDISEH |
| 3689 | sp|P54811|TERA1\_CAEEL | MASVPTHQSEKEKKNDELSTAILKDKVKPNRLIVDQSEQDDNSVIAVSQAKMDELGLFRGDAVILKGKKRKESVAIIVSDESCPNEKVRMNRVVRNNLRIRLGDVVSITPAPNLSYGTRIHVLPIDDTIEGLTGNLFDVFLKPYFLEAYRPLHKGDIFTVQAAMRTVEFKVVETEPAPACIVSPDTMIHYEGDPIKREEEEESMNDIGYDDLGGVRKQLAQIKEMVELPLRHPQLFKAIGIKPPRGILLFGPPGTGKTLIARAVANETGSFFFLINGPEVMSKMSGESESNLRKAFEECEKNQPAILFIDEIDAIAPKREKTNGEVERRIVSQLLTLMDGVKGRSNLVVIAATNRPNSIDGALRRFGRFDREIDIGIPDAVGRLEILRIHTKNMKLADDVDLEQIANECHGFVGADLASLCSEAALQQIREKMELIDLEDDQIDAEVLNSLAVTMENFRFAQGKSSPSALREAVVETPNTTWSDIGGLQNVKRELQELVQYPVEHPEKYLKFGMQPSRGVLFYGPPGCGKTLLAKAIANECQANFISIKGPELLTMWFGESEANVRDVFDKARAAAPCVLFFDELDSIAKARGGGAGGDGGGASDRVINQVLTEMDGMNAKKNVFIIGATNRPDIIDPAVLRPGRLDQLIYIPLPDEASRHQILKASLRKTPLSKDLDLTFLAKNTVGFSGADLTEICQRACKLAIRESIEKEIRIEKERQDRQARGEELMEDDAVDPVPEITRAHFEEAMKFARRSVTDNDIRKYEMFAQTLQQSRGFGNNFKFPGEQRGSDAPSAPVPAQDDDDLYN |
| 3690 | sp|P69697|TAT\_HV1B1 | MEPVDPRLEPWKHPGSQPKTACTNCYCKKCCFHCQVCFITKALGISYGRKKRRQRRRPPQGSQTHQVSLSKQPTSQSRGDPTGPKE |
| 3691 | sp|P10637|TAU\_MOUSE | MADPRQEFDTMEDHAGDYTLLQDQEGDMDHGLKESPPQPPADDGAEEPGSETSDAKSTPTAEDVTAPLVDERAPDKQAAAQPHTEIPEGITAEEAGIGDTPNQEDQAAGHVTQGRREGQAPDLGTSDWTRQQVSSMSGAPLLPQGLREATCQPSGTRPEDIEKSHPASELLRRGPPQKEGWGQDRLGSEEEVDEDLTVDESSQDSPPSQASLTPGRAAPQAGSGSVCGETASVPGLPTEGSVPLPADFFSKVSAETQASQPEGPGTGPMEEGHEAAPEFTFHVEIKASTPKEQDLEGATVVGVPGEEQKAQTQGPSVGKGTKEASLQEPPGKQPAAGLPGRPVSRVPQLKARVASKDRTGNDEKKAKTSTPSCAKAPSHRPCLSPTRPTLGSSDPLIKPSSPAVSPEPATSPKHVSSVTPRNGSPGTKQMKLKGADGKTGAKIATPRGAASPAQKGTSNATRIPAKTTPSPKTPPGSGEPPKSGERSGYSSPGSPGTPGSRSRTPSLPTPPTREPKKVAVVRTPPKSPSASKSRLQTAPVPMPDLKNVRSKIGSTENLKHQPGGGKVQIINKKLDLSNVQSKCGSKDNIKHVPGGGSVQIVYKPVDLSKVTSKCGSLGNIHHKPGGGQVEVKSEKLDFKDRVQSKIGSLDNITHVPGGGNKKIETHKLTFRENAKAKTDHGAEIVYKSPVVSGDTSPRHLSNVSSTGSIDMVDSPQLATLADEVSASLAKQGL |
| 3692 | sp|Q99594|TEAD3\_HUMAN | MASNSWNASSSPGEAREDGPEGLDKGLDNDAEGVWSPDIEQSFQEALAIYPPCGRRKIILSDEGKMYGRNELIARYIKLRTGKTRTRKQVSSHIQVLARKKVREYQVGIKAMNLDQVSKDKALQSMASMSSAQIVSASVLQNKFSPPSPLPQAVFSTSSRFWSSPPLLGQQPGPSQDIKPFAQPAYPIQPPLPPTLSSYEPLAPLPSAAASVPVWQDRTIASSRLRLLEYSAFMEVQRDPDTYSKHLFVHIGQTNPAFSDPPLEAVDVRQIYDKFPEKKGGLKELYEKGPPNAFFLVKFWADLNSTIQEGPGAFYGVSSQYSSADSMTISVSTKVCSFGKQVVEKVETEYARLENGRFVYRIHRSPMCEYMINFIHKLKHLPEKYMMNSVLENFTILQVVTSRDSQETLLVIAFVFEVSTSEHGAQHHVYKLVKD |
| 3693 | sp|Q9MAH8|TCP3\_ARATH | MAPDNDHFLDSPSPPLLEMRHHQSATENGGGCGEIVEVQGGHIVRSTGRKDRHSKVCTAKGPRDRRVRLSAPTAIQFYDVQDRLGFDRPSKAVDWLITKAKSAIDDLAQLPPWNPADTLRQHAAAAANAKPRKTKTLISPPPPQPEETEHHRIGEEEDNESSFLPASMDSDSIADTIKSFFPVASTQQSYHHQPPSRGNTQNQDLLRLSLQSFQNGPPFPNQTEPALFSGQSNNQLAFDSSTASWEQSHQSPEFGKIQRLVSWNNVGAAESAGSTGGFVFASPSSLHPVYSQSQLLSQRGPLQSINTPMIRAWFDPHHHHHHHQQSMTTDDLHHHHPYHIPPGIHQSAIPGIAFASSGEFSGFRIPARFQGEQEEHGGDNKPSSASSDSRH |
| 3694 | sp|Q673L6|TERT\_RAT | MPRAPRCPAVRSLLRSRYREVWPLATFVRRLGLEGSRLVQPGDPKVFRTLVAQCLVCVPWGSQPPPADLSFHQVSSLKELVSRVVQKLCERGERNVLAFGFALLNGARGGPPMAFTTSVHSYLPNSVTESLCVSGAWMLLLSRVGDDLLVYLLSHCALYLLVPPSCAYQVCGSPLYQICATTDTWSSVPAGYRPTRPVGGNFTNLGSAHQIKNSGHQEAPKPQALPSRGTKRLLSLTSTNVPSAKKARFEPALRVDKGPHRQVVPTPSGKTWAPSPAASPKVPPAAKNLSLKGKASDPSLSGSVCCKHKPSSSSLLSSPPQDAEKLRPFTETRHFLYSRGGGQEELNPSFLLNSLPPSLTGARRLVEIIFLGSRPRTSGPFCRTRRLPRRYWQMRPLFQQLLMNHAKCQYVRFLRSHCRFRTANQRVPDAMDTSPSHLTSLLRLHSSPWQVYGFLRACLRELVPAGLWGTRHNERRFLKNVKKFISLGKYAKLSLQELMWRVKVEDCHWLRSSPEKDTVPAAEHRLRERILAMFLFWLMDTYVVQLLRSFFYITETTFQKNRLFFYRKSVWSKLQSIGIRQQLERVQLRELSQEEVKHHQDTWLAMPICRLRFIPKLNGLRPIVNMSYGMDTRAFGKKKQTQCFTQSLKTLFSVLNYERTKHPNLMGASVLGTSDSYRIWRTFVLRVRALDQTPRMYFVKADVTGAYDAIPQDKLVEIVANIIRRSESMYCIRQYAVVQKDSQGQVHKSFRRQVSTLSDLQPYMGQFTKHLQDSDASALRNSVVIEQSISMNETGSSLLHFFLRFVRHSVVKIDGRFYVQCQGIPQGSSLSTLLCSLCFGDMENKLFAEVQQDGLLLRFVDDFLLVTPHLAHAKAFLSTLVHGVPEYGCMINLQKTVVNFPVETGALGGAAPHQLPAHCLFPWCGLLLDTRTLEVFCDYSGYGRTSIKMSLTFQGVSRAGKTMRYKLLSVLRLKCHGLFLDLQVNSLQTVCINIYKIFLLQAYRFHACVIRLPFGQHVRKNHAFFLGIISNLASCCYAILKVKNPGVSLRAKGAPGSFPPEATRWLCYQAFLLKLAAHSVTYKCLLGPLRTAQKQLCRKLPEATMTLLKTAADPALSTDFQTILD |
| 3695 | sp|Q9BXJ8|TACAN\_HUMAN | MQPPPPGPLGDCLRDWEDLQQDFQNIQETHRLYRLKLEELTKLQNNCTSSITRQKKRLQELALALKKCKPSLPAEAEGAAQELENQMKERQGLFFDMEAYLPKKNGLYLSLVLGNVNVTLLSKQAKFAYKDEYEKFKLYLTIILILISFTCRFLLNSRVTDAAFNFLLVWYYCTLTIRESILINNGSRIKGWWVFHHYVSTFLSGVMLTWPDGLMYQKFRNQFLSFSMYQSFVQFLQYYYQSGCLYRLRALGERHTMDLTVEGFQSWMWRGLTFLLPFLFFGHFWQLFNALTLFNLAQDPQCKEWQVLMCGFPFLLLFLGNFFTTLRVVHHKFHSQRHGSKKD |
| 3696 | sp|Q9PTG8|TACC3\_XENLA | MSLQIINDENAGNDITAEKFDLLLNPQTTGRPSILRPSQKDNLPPKPALKSTKVTFQTPMRDPQTLRIMTPSVANKPENVFLLEDCTQALEQLHLSLPSSCGPNPVEINVSVSNNQPDSEELPVRTTGAYSIDFDNFDDINPFKSKTQMLNSPIKADLPSLTENIETTTPVVPADEASKQMVSLNLSAANLDSPVTVQFSSESGSIGVSEKTALDDTLPLSESGIKDLQGLNASSNNIEEPVPLDKDICSNNEKDDATMADSTCEGTSDAHTSSNNIEEPVTLDKDICSSNEKDNAAVADSTCEGTSDAQSPLPIPKSSYSFDPDQFDMMNPFKTGGSKLQNSPAGKKQTPPSADLNTAKTEPVKLEFNFGDGDVSERKPPPKKLGKRPLLKTAAKKPSPKPEIASEKQEQQTAKPSEDEAIVPKASYKFDWEKFDDPNFNPFGCGGSKISSSPKGQKIANEQPSACTQGSKPEAECTASDMAPAENADEKDHGEIEPSQDSGAAEDRSQAEDQSVALSKVEVPHEQTTDCSPVENETQPEVSLINEEPSQKEVEHTSSDMTPPEINGTDSEFKLATEADFLLAADMDFKPASEIFSEGFRQPVEIDYLENFGTNSFKESVLRKQSLYLKFDPLLRESPKKSAAGINLLPSVPLKCSSDLFGAIPEANFPLIPSIENEEKPKGLDLLGTFTVADTALLIVDAPSSVAVPNPFLSTSDAIVEMLKYSQKDMDAAIEAVRLEVQEKDLEVLEWKTKHEKLYLEYVEMGKIIAEFEGTITQILEDSQRQKETAKLELNKVLQEKQQVQVDLNSMETSFSELFKRLEKQKEALEGYRKNEEALKKCVEDYLVRIKKEEQRYQALKAHAEEKLNRANEEIAHVRSKAKSEATALQATLRKEQMKIQSLERSLEQKSKENDELTKICDDFILKMEKI |
| 3697 | sp|Q9NUY8|TBC23\_HUMAN | MAEGEDVPPLPTSSGDGWEKDLEEALEAGGCDLETLRNIIQGRPLPADLRAKVWKIALNVAGKGDSLASWDGILDLPEQNTIHKDCLQFIDQLSVPEEKAAELLLDIESVITFYCKSRNIKYSTSLSWIHLLKPLVHLQLPRSDLYNCFYAIMNKYIPRDCSQKGRPFHLFRLLIQYHEPELCSYLDTKKITPDSYALNWLGSLFACYCSTEVTQAIWDGYLQQADPFFIYFLMLIILVNAKEVILTQESDSKEEVIKFLENTPSSLNIEDIEDLFSLAQYYCSKTPASFRKDNHHLFGSTLLGIKDDDADLSQALCLAISVSEILQANQLQGEGVRFFVVDCRPAEQYNAGHLSTAFHLDSDLMLQNPSEFAQSVKSLLEAQKQSIESGSIAGGEHLCFMGSGREEEDMYMNMVLAHFLQKNKEYVSIASGGFMALQQHLADINVDGPENGYGHWIASTSGSRSSINSVDGESPNGSSDRGMKSLVNKMTVALKTKSVNVREKVISFIENTSTPVDRMSFNLPWPDRSCTERHVSSSDRVGKPYRGVKPVFSIGDEEEYDTDEIDSSSMSDDDRKEVVNIQTWINKPDVKHHFPCKEVKESGHMFPSHLLVTATHMYCLREIVSRKGLAYIQSRQALNSVVKITSKKKHPELITFKYGNSSASGIEILAIERYLIPNAGDATKAIKQQIMKVLDALES |
| 3698 | sp|Q00417|TCF7\_MOUSE | MPQLDSGGGGAGRGDDLGAPDELLAFQDEGEEQDDKNRDSPVGPERDLAELKSSLVNESEGAAAGAGVPGPGVRVHGEAEGAPEALGREHTSQRLFPDKLPESLEDGLKAPECTSGMYKETVYSAFNLLMPYPPASGAGQHPQPQPPLHNKPGQPPHGVPQLSPLYEHFSSPHPTPAPADISQKQGVHRPLQTPDLSGFYSLTSGSMGQLPHTVSWPSPPLYPLSPSCGYRQHFPAPTAAPGAPYPRFTHPSLMLGSGVPGHPAAIPHPAIVPSSGKQELQPYDRNLKTQAEPKAEKEAKKPVIKKPLNAFMLYMKEMRAKVIAECTLKESAAINQILGRRWHALSREEQAKYYELARKERQLHMQLYPGWSARDNYGKKKRRSREKHQESTTGGKRNAFGTYPEKAAAPAPFLPMTVL |
| 3699 | sp|Q03519|TAP2\_HUMAN | MRLPDLRPWTSLLLVDAALLWLLQGPLGTLLPQGLPGLWLEGTLRLGGLWGLLKLRGLLGFVGTLLLPLCLATPLTVSLRALVAGASRAPPARVASAPWSWLLVGYGAAGLSWSLWAVLSPPGAQEKEQDQVNNKVLMWRLLKLSRPDLPLLVAAFFFLVLAVLGETLIPHYSGRVIDILGGDFDPHAFASAIFFMCLFSFGSSLSAGCRGGCFTYTMSRINLRIREQLFSSLLRQDLGFFQETKTGELNSRLSSDTTLMSNWLPLNANVLLRSLVKVVGLYGFMLSISPRLTLLSLLHMPFTIAAEKVYNTRHQEVLREIQDAVARAGQVVREAVGGLQTVRSFGAEEHEVCRYKEALEQCRQLYWRRDLERALYLLVRRVLHLGVQMLMLSCGLQQMQDGELTQGSLLSFMIYQESVGSYVQTLVYIYGDMLSNVGAAEKVFSYMDRQPNLPSPGTLAPTTLQGVVKFQDVSFAYPNRPDRPVLKGLTFTLRPGEVTALVGPNGSGKSTVAALLQNLYQPTGGQVLLDEKPISQYEHCYLHSQVVSVGQEPVLFSGSVRNNIAYGLQSCEDDKVMAAAQAAHADDFIQEMEHGIYTDVGEKGSQLAAGQKQRLAIARALVRDPRVLILDEATSALDVQCEQALQDWNSRGDRTVLVIAHRLQTVQRAHQILVLQEGKLQKLAQL |
| 3700 | sp|O82392|THIC\_ARATH | MAASVHCTLMSVVCNNKNHSARPKLPNSSLLPGFDVVVQAAATRFKKETTTTRATLTFDPPTTNSERAKQRKHTIDPSSPDFQPIPSFEECFPKSTKEHKEVVHEESGHVLKVPFRRVHLSGGEPAFDNYDTSGPQNVNAHIGLAKLRKEWIDRREKLGTPRYTQMYYAKQGIITEEMLYCATREKLDPEFVRSEVARGRAIIPSNKKHLELEPMIVGRKFLVKVNANIGNSAVASSIEEEVYKVQWATMWGADTIMDLSTGRHIHETREWILRNSAVPVGTVPIYQALEKVDGIAENLNWEVFRETLIEQAEQGVDYFTIHAGVLLRYIPLTAKRLTGIVSRGGSIHAKWCLAYHKENFAYEHWDDILDICNQYDVALSIGDGLRPGSIYDANDTAQFAELLTQGELTRRAWEKDVQVMNEGPGHVPMHKIPENMQKQLEWCNEAPFYTLGPLTTDIAPGYDHITSAIGAANIGALGTALLCYVTPKEHLGLPNRDDVKAGVIAYKIAAHAADLAKQHPHAQAWDDALSKARFEFRWMDQFALSLDPMTAMSFHDETLPADGAKVAHFCSMCGPKFCSMKITEDIRKYAEENGYGSAEEAIRQGMDAMSEEFNIAKKTISGEQHGEVGGEIYLPESYVKAAQK |
| 3701 | sp|Q9LVI4|TIF6B\_ARATH | MERDFLGLGSKNSPITVKEETSESSRDSAPNRGMNWSFSNKVSASSSQFLSFRPTQEDRHRKSGNYHLPHSGSFMPSSVADVYDSTRKAPYSSVQGVRMFPNSNQHEETNAVSMSMPGFQSHHYAPGGRSFMNNNNNSQPLVGVPIMAPPISILPPPGSIVGTTDIRSSSKPIGSPAQLTIFYAGSVCVYDDISPEKAKAIMLLAGNGSSMPQVFSPPQTHQQVVHHTRASVDSSAMPPSFMPTISYLSPEAGSSTNGLGATKATRGLTSTYHNNQANGSNINCPVPVSCSTNVMAPTVALPLARKASLARFLEKRKERVTSVSPYCLDKKSSTDCRRSMSECISSSLSSAT |
| 3702 | sp|O08629|TIF1B\_RAT | MAASAAAATAAASAATAASAASGSPGSGEGSAGGEKRPAASSAAAASASASSPAGGGGEAQELLEHCGVCRERLRPERDPRLLPCLHSACSACLGPATPAAANNSGDGGSAGDGAMVDCPVCKQQCYSKDIVENYFMRDSGSKASSDSQDANQCCTSCEDNAPATSYCVECSEPLCETCVEAHQRVKYTKDHTVRSTGPAKTRDGERTVYCNVHKHEPLVLFCESCDTLTCRDCQLNAHKDHQYQFLEDAVRNQRKLLASLVKRLGDKHATLQKNTKEVRSSIRQVSDVQKRVQVDVKMAILQIMKELNKRGRVLVNDAQKVTEGQQERLERQHWTMTKIQKHQEHILRFASWALESDNNTALLLSKKLIYFQLHRALKMIVDPVEPHGEMKFQWDLNAWTKSAEAFGKIVAERPGTNSTGPGPMAPPRAPGPLSKQGSGSSQPMEVQEGYGFGTDDPYSSAEPHVSGMKRSRSGEGEVSGLMRKVPRVSLERLDLDLTSDSQPPVFKVFPGSTTEDYNLIVIERGAAAAAAGQAGTVPPGAPGAPPLPGMAIVKEEETEAAIGAPPAAPEGPETKPVLMALTEGPGAEGPRLASPSGSTSSGLEVVAPEVTSAPVSGPGILDDSATICRVCQKPGDLVMCNQCEFCFHLDCHLPSLQDVPGEEWSCSLCHVLPDLKEEDGSLSLDGADSTGVVAKLSPANQRKCERVLLALFCHEPCRPLHQLATDSTFSMEQPGGTLDLTLIRARLQEKLSPPYSSPQEFAQDVGRMFKQFNKLTEDKADVQSIIGLQRFFETRMNDAFGDTKFSAVLVEPPPLNLPSAGLSSQELSGPGDGP |
| 3703 | sp|A7MBS7|THS7A\_DANRE | MGLASRAPGKGGTSAGALASLFRVALLFFGLWDVQTQTVANTRPTYIWQTGPWGRCMGSECGPGGSQSRAVWCAHSEGWTTLHTNCQQSERPSNQQSCFRVCDWHKELYDWQLGAWNQCVPVSMRNAGVPRPAVCTRGEEGIQTREVGCVHKSDGVPAEDAICEYFEPKPRLEQACLIPCPRDCVVSEFSPWTSCSKSCGMGLQNRLRSVLAPPLFGGSACPNLTEFRTCQPGKCEGVESLHSLRVGPWGQCMASPIRQARDTGEARVPKAERKAKRDRQARQERQGKRRKNKEKKELRESKGERVRERVKEKKRMRDPETRELIKKKRTRNRQNRQGLKFWDLQVGYQTREVTCVHRSGSTASISQCTQQTLPVTYQACVISKDCEVSEWSDWSVCSKECYDLNGRKGQRTRTRQVQQFPVGGGAECPELEESEPCSPQGEGIPPCVVYNWRSTEWSDCRVDVLLSQQDRRRSNQTGLCGGGVQTREVYCVQAPSETSSNLGSLKSKDALRPVNSDLCLGVPHNTTQLCHIPCPVECEVSAWSAWGPCTFENCQDQSTKKGFKLRKRKIMNEPTGGTGNCPHLTEAIPCEEPSCYDWLLVKLEECVPDNDKVCGPGTQNPQVQCINSDGEFVDRQLCRDAILPMPVLCEVSCPKDCVLSPWTSWSLCSNTCSGKNSEGKQTRARSILAYNAGDGGVQCPNSSALQEVRSCNDHPCTVYHWQTGPWGQCIEDTSVPSANSSISRAVPGTAVNDAFCSVGMQTRKVICVRVNVGQVPPKKCPESLRPETVRPCLLPCKRDCVVTPYSDWTPCPSICQTGGSVKKKQSRKRIIIQLPANGGQDCPEVLFQEKDCDASSVCPGYRWKTHKWRRCQLVPWSIRQDSPGAQETCGPGLQARAVSCKKLDSGPADVAACLKFAGPMPQLTQSCQLPCQDDCQLTAWSKFSTCAADCVGVRTRKRTLVGKSKKREQCKNTQMYPLSETQYCPCNKYNAQPVGNWSDCILPEGRVEGLLGMKVQGDIKECGQGYRYQAMVCYDQDNRLVETSRCNSHGYIEEACIIPCPSDCKLSEWSNWSRCSKSCGSGVKVRSKWLREKPYNGGRPCPKLDHVNQAQVYEVVPCLSDCSQYVWVAEPWSVWKVSNVDLKENCGEGVQTRKVRCMQNTVDGPSDPVEDYLCDPEEMPLGARESKLPCPEDCVLTDWGSWSRCPLPCNVNSTRQRSASPIRQPSERKQCPSTTEKEICTLNSNCFHYSYNITDWSTCQLSERAVCGVGFKTRMLDCVRSDSKSVDLKFCEELGLEKKWQMNASCVVECPVNCQLSDWSSWSECSHTCGLAGKLWRRRTVIQASQGDGRPCSSQLEQWKPCPVKPCFSWRYSVWSPCKSEGARCGEGLRFRNVSCFVSDGSGKDAGSMVDEELCGDLEQTVDGDKQIILQESCTVPCPGECYLTDWTMWSPCQLSCIGGDDLGFGSVQVRSRAVLAQEPENLLQCPEQEWEARPCTEGQCYDYKWMTGAWRGSSRQVWCQRSDGLNVTGGCQSTTEPVSDRSCDPACDKPRSICTEAGICGCEEGYTEVMTSDGVLDQCTVIPVLEIPTAGDSKADVKTIRALNPTEPTANMPGRAGRTWFLQPFGPDGKLKTWVYGVAAGAFVLLVFIVSMTYLACKKPKKPQRRQMNNRLKPLTLAYDGDADM |
| 3704 | sp|Q9Y320|TMX2\_HUMAN | MAVLAPLIALVYSVPRLSRWLAQPYYLLSALLSAAFLLVRKLPPLCHGLPTQREDGNPCDFDWREVEILMFLSAIVMMKNRRSITVEQHIGNIFMFSKVANTILFFRLDIRMGLLYITLCIVFLMTCKPPLYMGPEYIKYFNDKTIDEELERDKRVTWIVEFFANWSNDCQSFAPIYADLSLKYNCTGLNFGKVDVGRYTDVSTRYKVSTSPLTKQLPTLILFQGGKEAMRRPQIDKKGRAVSWTFSEENVIREFNLNELYQRAKKLSKAGDNIPEEQPVASTPTTVSDGENKKDK |
| 3705 | sp|O95150|TNF15\_HUMAN | MAEDLGLSFGETASVEMLPEHGSCRPKARSSSARWALTCCLVLLPFLAGLTTYLLVSQLRAQGEACVQFQALKGQEFAPSHQQVYAPLRADGDKPRAHLTVVRQTPTQHFKNQFPALHWEHELGLAFTKNRMNYTNKFLLIPESGDYFIYSQVTFRGMTSECSEIRQAGRPNKPDSITVVITKVTDSYPEPTQLLMGTKSVCEVGSNWFQPIYLGAMFSLQEGDKLMVNVSDISLVDYTKEDKTFFGAFLL |
| 3706 | sp|Q8GY55|TIF4B\_ARATH | MDVGVTTAKSILEKPLKLLTEEDISQLTREDCRKFLKEKGMRRPSWNKSQAIQQVLSLKALYEPGDDSGAGILRKILVSQPPNPPRVTTTLIEPRNELEACGRIPLQEDDGACHRRDSPRSAEFSGSSGQFVADKDSHKTVSVSPRSPAETNAVVGQMTIFYSGKVNVYDGVPPEKARSIMHFAANPIDLPENGIFASSRMISKPMSKEKMVELPQYGLEKAPASRDSDVEGQANRKVSLQRYLEKRKDRRFSKTKKAPGVASSSLEMFLNRQPRMNAAYSQNLSGTGHCESPENQTKSPNISVDLNSDLNSEDN |
| 3707 | sp|P18115|THAB\_XENLA | MDQNLSGLDCLSEPDEKRWPDGKRKRKNSQCMGKSGMSGDSLVSLPPAGYIPSYLDKDEPCVVCSDKATGYHYRCITCEGCKGFFRRTIQKNLHPSYSCKYDGCCIIDKITRNQCQLCRFKKCIAVGMAMDLVLDDSKRVAKRKLIEENRVRRRKEEMIKTLQQRPEPSSEEWELIRIVTEAHRSTNAQGSHWKQRRKFLPEDIGQSPMASMPDGDKVDLEAFSEFTKIITPAITRVVDFAKKLPMFSELTCEDQIILLKGCCMEIMSLRAAVRYDPDSETLTLSGEMAVKREQLKNGGLGVVSDAIFDLGRSLAAFNLDDTEVALLQAVLLMSSDRTGLICTDKIEKCQETYLLAFEHYINHRKHNIPHFWPKLLMKVTDLRMIGACHASRFLHMKVECPTELFPPLFLEVFEDQEV |
| 3708 | sp|Q9Z2Y1|TIM\_RAT | MDLYMMNCELLATCSALGYLEGGTYHKEPDCLESVKDLIRYLRHEDETRDVRQQLGAAQILQSDLLPILTQHRQDKPLFDAVIRLMVNLTQPALLCFGSVPKDPTVRHHFLQVLTYLQAYKEAFASEKAFGVLSETLYELLQLGWEDRQEEDNLLIERILLLVRNILHVPANLEQEKRIDDDASIHDRLLWAIHLSGMDDLLLFLSSSSAEQQWSLHVLEIISLMFRDQKPEQLAGVGQGRLAQERSTDLAELEVLRQREVAEKRARALQRGNRHSRFGGSYVVQGLKSIGERDVVFHKGLHNLQNYSSDLGKQPRRVPKRRQAAQELSVHRRSVLNVRLFLRDFCSEFLENCYNPLMGAVKDHLLREKAQQHDETYYMWAMAFFMAFNRAAAFRPGFVSETLSIRTFHFVEQNLTNYYEMMLTDRKEAASWARRMHLALKAYQELLATVNEMDMCPDDAVRESSRIIKNNIFYMMEYRELFLALFRKFDERYHPRSFLCDLVETTHLFLKMLERFCRSRGNLMVQNKRKKRKKKKKAQEQGVAFSRSPEELQAMWSALAERLLQCAQEPELSVDSIIPFDAASEVPVEEQRVEAMVRIQDCLVAGQAPQALALLRSAREVWPEGNVFGSPVISPGEEMQLLKQILSATLPRQQEPVEGDAEEEDEEEEEEEEEELQVVQVSEKEFKFLDYLKRFACSTIVRAYVLLLRSYRQNSAHTNHCIAKMLHRLAHDLGMEALLFQLSLFCLFNQLLSDPAAAAYKELVTFAKYILGKFFALAAVNQKAFVELLFWKNTSVVREMTQGYGSLDSGSCSHRAPVWSSEEEAQLQELYLAHKDVEGQDVVETILAHLKAVPRTRKQVIHHLVRMGLADSVKDFQRKGTQIVLWTEDQELELQRLFEEFQDSDDVLGHIMKNITAKRSRARVVDKLLALGLVSERRQLHKKRRKKLAPSCMQNGEESQRDAWQEDPEEEEEKEGLPESEGEENEEDLLAGQVQGSSSLSAENLRQSLCQDGLSAPLLWLQSSLIRAADDREEDGCSQAIPLVPLTEENEEAMENKQFQHLLRKLGIRAPCSGQETFWRIPAKLSSTQLRRVAASLSERENKEEREEEPEPNPGVPGEQSPSEEHQVRAPRALLSARKRKAGLVFPKEEATGEEEWKSVPKKQQLLDSDEEDTDDERGGQAAVSGTLRIHKEKRFLVEDEDEDY |
| 3709 | sp|Q15363|TMED2\_HUMAN | MVTLAELLVLLAALLATVSGYFVSIDAHAEECFFERVTSGTKMGLIFEVAEGGFLDIDVEITGPDNKGIYKGDRESSGKYTFAAHMDGTYKFCFSNRMSTMTPKIVMFTIDIGEAPKGQDMETEAHQNKLEEMINELAVAMTAVKHEQEYMEVRERIHRAINDNTNSRVVLWSFFEALVLVAMTLGQIYYLKRFFEVRRVV |
| 3710 | sp|Q07352|TISB\_HUMAN | MTTTLVSATIFDLSEVLCKGNKMLNYSAPSAGGCLLDRKAVGTPAGGGFPRRHSVTLPSSKFHQNQLLSSLKGEPAPALSSRDSRFRDRSFSEGGERLLPTQKQPGGGQVNSSRYKTELCRPFEENGACKYGDKCQFAHGIHELRSLTRHPKYKTELCRTFHTIGFCPYGPRCHFIHNAEERRALAGARDLSADRPRLQHSFSFAGFPSAAATAAATGLLDSPTSITPPPILSADDLLGSPTLPDGTNNPFAFSSQELASLFAPSMGLPGGGSPTTFLFRPMSESPHMFDSPPSPQDSLSDQEGYLSSSSSSHSGSDSPTLDNSRRLPIFSRLSISDD |
| 3711 | sp|Q9P0T7|TMEM9\_HUMAN | MKLLSLVAVVGCLLVPPAEANKSSEDIRCKCICPPYRNISGHIYNQNVSQKDCNCLHVVEPMPVPGHDVEAYCLLCECRYEERSTTTIKVIIVIYLSVVGALLLYMAFLMLVDPLIRKPDAYTEQLHNEEENEDARSMAAAAASLGGPRANTVLERVEGAQQRWKLQVQEQRKTVFDRHKMLS |
| 3712 | sp|O14925|TIM23\_HUMAN | MEGGGGSGNKTTGGLAGFFGAGGAGYSHADLAGVPLTGMNPLSPYLNVDPRYLVQDTDEFILPTGANKTRGRFELAFFTIGGCCMTGAAFGAMNGLRLGLKETQNMAWSKPRNVQILNMVTRQGALWANTLGSLALLYSAFGVIIEKTRGAEDDLNTVAAGTMTGMLYKCTGGLRGIARGGLTGLTLTSLYALYNNWEHMKGSLLQQSL |
| 3713 | sp|P20352|TF\_MOUSE | MAILVRPRLLAALAPTFLGCLLLQVIAGAGIPEKAFNLTWISTDFKTILEWQPKPTNYTYTVQISDRSRNWKNKCFSTTDTECDLTDEIVKDVTWAYEAKVLSVPRRNSVHGDGDQLVIHGEEPPFTNAPKFLPYRDTNLGQPVIQQFEQDGRKLNVVVKDSLTLVRKNGTFLTLRQVFGKDLGYIITYRKGSSTGKKTNITNTNEFSIDVEEGVSYCFFVQAMIFSRKTNQNSPGSSTVCTEQWKSFLGETLIIVGAVVLLATIFIILLSISLCKRRKNRAGQKGKNTPSRLA |
| 3714 | sp|P28720|TGT\_ZYMMO | MVEATAQETDRPRFSFSIAAREGKARTGTIEMKRGVIRTPAFMPVGTAATVKALKPETVRATGADIILGNTYHLMLRPGAERIAKLGGLHSFMGWDRPILTDSGGYQVMSLSSLTKQSEEGVTFKSHLDGSRHMLSPERSIEIQHLLGSDIVMAFDECTPYPATPSRAASSMERSMRWAKRSRDAFDSRKEQAENAALFGIQQGSVFENLRQQSADALAEIGFDGYAVGGLAVGEGQDEMFRVLDFSVPMLPDDKPHYLMGVGKPDDIVGAVERGIDMFDCVLPTRSGRNGQAFTWDGPINIRNARFSEDLTPLDSECHCAVCQKWSRAYIHHLIRAGEILGAMLMTEHNIAFYQQLMQKIRDSISEGRFSQFAQDFRARYFARNS |
| 3715 | sp|Q3TMP8|TM38A\_MOUSE | MDLMSALSLGELALSFSRVPLFPVFDLSYFIVSIIYLKYEPGAVELSRRHPVASWLCAMLHCFGSYILADLLLGEPIIDYFSNSSSILLASGVWYLIFFCPLDLFYKCVCFLPVKLIFVAMKEVVRVRKIAVGIHHAHHHYHHGWFIMIATGWVKGSGVALLSNVEQLLRGVWKPETNEILHMSFPTKASLYGAILFTLQQTRWLPVSKASLIFVFTMFMVSCKVFLTATHSHSSPFDILEGYICPVLFGATWGGDHHHDNHGAPHGMGLGTQHSGLPAKAKEELGEGSRKKKTKKAD |
| 3716 | sp|P24752|THIL\_HUMAN | MAVLAALLRSGARSRSPLLRRLVQEIRYVERSYVSKPTLKEVVIVSATRTPIGSFLGSLSLLPATKLGSIAIQGAIEKAGIPKEEVKEAYMGNVLQGGEGQAPTRQAVLGAGLPISTPCTTINKVCASGMKAIMMASQSLMCGHQDVMVAGGMESMSNVPYVMNRGSTPYGGVKLEDLIVKDGLTDVYNKIHMGSCAENTAKKLNIARNEQDAYAINSYTRSKAAWEAGKFGNEVIPVTVTVKGQPDVVVKEDEEYKRVDFSKVPKLKTVFQKENGTVTAANASTLNDGAAALVLMTADAAKRLNVTPLARIVAFADAAVEPIDFPIAPVYAASMVLKDVGLKKEDIAMWEVNEAFSLVVLANIKMLEIDPQKVNINGGAVSLGHPIGMSGARIVGHLTHALKQGEYGLASICNGGGGASAMLIQKL |
| 3717 | sp|Q5I2M4|TLR9\_SHEEP | MGPYCAPHPLSLLVQAAALAAALAQGTLPAFLPCELQPRGKVNCNWLFLKSVPRFSAGAPRANVTSLSLISNRIHHLHDSDFVHLSNLRVLNLKWNCPPAGLSPMHFPCRMTIEPNTFLAVPTLEELNLSYNGITTVPALPSSLVSLSLSRTSILVLGPTHFTGLHALRFLYMDGNCYYKNPCQQAVEVAPGALLGLGNLTHLSLKYNNLTEVPRRLPPSLDTLLLSYNHIITLAPEDLANLTALRVLDVGGNCRRCDHARNPCRECPKNFPKLHPDTFSHLSRLEGLVLKDSSLYKLEKDWFRGLGRLQVLDLSENFLYDYITKTTIFRNLTQLRRLNLSFNYHKKVSFAHLQLAPSFGGLVSLEKLDMHGIFFRSLTNTTLRPLTQLPKLQSLSLQLNFINQAELSIFGAFPSLLFVDLSDNRISGAARPVAALGEVDSGVEVWRWPRGLAPGPLAAVSAKDFMPSCNLNFTLDLSRNNLVTIQQEMFTRLSRLQCLRLSHNSISQAVNGSQFVPLTRLRVLDLSYNKLDLYHGRSFTELPQLEALDLSYNSQPFSMQGVGHNLSFVAQLPSLRYLSLAHNGIHSRVSQKLSSASLRALDFSGNSLSQMWAEGDLYLCFFKGLRNLVQLDLSKNHLHTLLPRHLDNLPKSLRQLRLRDNNLAFFNWSSLTVLPQLEALDLAGNQLKALSNGSLPPGTRLQKLDVSSNSIGFVTPGFFVLANRLKELNLSANALKTVDPFWFGRLTETLKILDVSANPLHCACGAAFVDFLLEMQAAVPGLSRRVTCGSPGQLQGRSIFAQDLRLCLDETLSLDCFGFSLLMVALGLAVPMLHHLCGWDLWYCFHLCLAHLPRRRRQRGEDTLLYDAFVVFDKAQSAVADWVYNELRVQLEERRGRRALRLCLEERDWLPGKTLFENLWASVYSSRKTMFVLDHTDRVSGLLRASFLLAQQRLLEDRKDVVVLVILRPAAYRSRYVRLRQRLCRQSVLLWPHQPSGQGSFWANLGMALTRDNRHFYNRNFCRGPTTAE |
| 3718 | sp|P9WJ63|TLYA\_MYCTU | MARRARVDAELVRRGLARSRQQAAELIGAGKVRIDGLPAVKPATAVSDTTALTVVTDSERAWVSRGAHKLVGALEAFAIAVAGRRCLDAGASTGGFTEVLLDRGAAHVVAADVGYGQLAWSLRNDPRVVVLERTNARGLTPEAIGGRVDLVVADLSFISLATVLPALVGCASRDADIVPLVKPQFEVGKGQVGPGGVVHDPQLRARSVLAVARRAQELGWHSVGVKASPLPGPSGNVEYFLWLRTQTDRALSAKGLEDAVHRAISEGP |
| 3719 | sp|Q7L0Y3|TM10C\_HUMAN | MAAFLKMSVSVNFFRPFTRFLVPFTLHRKRNNLTILQRYMSSKIPAVTYPKNESTPPSEELELDKWKTTMKSSVQEECVSTISSSKDEDPLAATREFIEMWRLLGREVPEHITEEELKTLMECVSNTAKKKYLKYLYTKEKVKKARQIKKEMKAAAREEAKNIKLLETTEEDKQKNFLFLRLWDRNMDIAMGWKGAQAMQFGQPLVFDMAYENYMKRKELQNTVSQLLESEGWNRRNVDPFHIYFCNLKIDGALHRELVKRYQEKWDKLLLTSTEKSHVDLFPKDSIIYLTADSPNVMTTFRHDKVYVIGSFVDKSMQPGTSLAKAKRLNLATECLPLDKYLQWEIGNKNLTLDQMIRILLCLKNNGNWQEALQFVPKRKHTGFLEISQHSQEFINRLKKAKT |
| 3720 | sp|Q3UES3|TNKS2\_MOUSE | MSGRRCAGGGAACASAGAEAVEPSARELFEACRNGDVERVKRLVTPEKVNSRDTAGRKSTPLHFAAGFGRKDVVEYLLQNGANVQARDDGGLIPLHNACSFGHAEVVNLLLQHGADPNARDNWNYTPLHEAAIKGKIDVCIVLLQHGAEPTIRNTDGRTALDLADPSAKAVLTGDYKKDELLESARSGNEEKMMALLTPLNVNCHASDGRKSTPLHLAAGYNRVKIVQLLLHHGADVHAKDKGDLVPLHNACSYGHYEVTELLVKHGACVNAMDLWQFTPLHEAASKNRIEVCSLLLSYGADPTLLNCHNKSAIDLAPTAQLKERLSYEFKGHSLLQAAREADVTRIKKHLSLEMVNFKHPQTHETALHCAAASPYPKRKQICELLLRKGANTNEKTKEFLTPLHVASENAHNDVVEVVVKHEAKVNALDSLGQTSLHRAAHCGHLQTCRLLLSYGCDPNIISLQGFTALQMGNENVQQLLQEGASLGHSEADRQLLEAAKAGDVETVKKLCTVQSVNCRDIEGRQSTPLHFAAGYNRVSVVEYLLQHGADVHAKDKGGLVPLHNACSYGHYEVAELLVKHGAVVNVADLWKFTPLHEAAAKGKYEICKLLLQHGADPTKKNRDGNTPLDLVKDGDTDIQDLLRGDAALLDAAKKGCLARVKKLSSPDNVNCRDTQGRHSTPLHLAAGYNNLEVAEYLLQHGADVNAQDKGGLIPLHNAASYGHVDVAALLIKYNACVNATDKWAFTPLHEAAQKGRTQLCALLLAHGADPTLKNQEGQTPLDLVSADDVSALLTAAMPPSALPTCYKPQVLSGVRGPGATADALSSGPSSPSSLSAASSLDNLSGSFSELSAVVSSSAAEGATGLQRKEDSGIDFSITQFIRNLGLEHLMDIFEREQITLDVLVEMGHKELKEIGINAYGHRHKLIKGVERLISGQQGLNPYLTLNNSGSGTILIDLSPDDKEFQSVEEEMQSTVREHRDGGHAGGVFNRYNILKIQKVCNKKLWERYTHRRKEVSEENHNHANERMLFHGSPFVNAIIHKGFDERHAYIGGMFGAGIYFAENSSKSNQYVYGIGGGTGCPIHKDRSCYICHRQLLFCRVTLGKSFLQFSAMKMAHSPPGHHSVTGRPSVNGLALAEYVIYRGEQAYPEYLITYQIVRPEGMVDG |
| 3721 | sp|F1RKQ4|TKFC\_PIG | MTSKKLVNSVAGCADDALAGLVACNPSLQLLQGHRVALRSDLDSLKGRVALLSGGGSGHEPAHAGFIGKGMLTGVIAGAVFTSPAVGSILAAIRAVAQAGTVGTLLIVKNYTGDRLNFGLAREQARAEGIPVEMVVVGDDSAFTVLKKAGRRGLCGTVLIHKVAGALAEAGVGLEEITNRVSVVAKAMGTLGVSLSSCSVPGSRPTFELSADEVELGLGIHGEAGVLRIKMATADEIVAHMLNHMTDSSNVSHVPVQSGSSVVLMVNNLGGLSYLELGIIADAAVRFLEGRGVKIARALVGTFMSALEMPGVSLTLLLVDEPLLKLIDAETTAAAWPNVAKVSVTGRKRSRAAPAEPPEAPDATAAGGATSKQMVRVLERVCTTLLGLEDQLNALDRAAGDGDCGTTHSRAARAIQGWLKESPPPASPAQLLSKLSLLLLEKMGGSSGALYGLFLTAAAQPLKAKTDLAAWSAAMDAGLEAMQKYGKAAPGDRTMLDSLWAAGQELQAWKSPGANLLPVLTKALLENAEAAAEATKNMEAGAGRASYISSARLDQPDPGAVAAAAILRAILEVLQSQGA |
| 3722 | sp|P27302|TKT1\_ECOLI | MSSRKELANAIRALSMDAVQKAKSGHPGAPMGMADIAEVLWRDFLKHNPQNPSWADRDRFVLSNGHGSMLIYSLLHLTGYDLPMEELKNFRQLHSKTPGHPEVGYTAGVETTTGPLGQGIANAVGMAIAEKTLAAQFNRPGHDIVDHYTYAFMGDGCMMEGISHEVCSLAGTLKLGKLIAFYDDNGISIDGHVEGWFTDDTAMRFEAYGWHVIRDIDGHDAASIKRAVEEARAVTDKPSLLMCKTIIGFGSPNKAGTHDSHGAPLGDAEIALTREQLGWKYAPFEIPSEIYAQWDAKEAGQAKESAWNEKFAAYAKAYPQEAAEFTRRMKGEMPSDFDAKAKEFIAKLQANPAKIASRKASQNAIEAFGPLLPEFLGGSADLAPSNLTLWSGSKAINEDAAGNYIHYGVREFGMTAIANGISLHGGFLPYTSTFLMFVEYARNAVRMAALMKQRQVMVYTHDSIGLGEDGPTHQPVEQVASLRVTPNMSTWRPCDQVESAVAWKYGVERQDGPTALILSRQNLAQQERTEEQLANIARGGYVLKDCAGQPELIFIATGSEVELAVAAYEKLTAEGVKARVVSMPSTDAFDKQDAAYRESVLPKAVTARVAVEAGIADYWYKYVGLNGAIVGMTTFGESAPAELLFEEFGFTVDNVVAKAKELL |
| 3723 | sp|Q96Q45|TM237\_HUMAN | MRTDSGARLEEGHLRPPRALPPVPSQDDIPLSRPKKKKPRTKNTPASASLEGLAQTAGRRPSEGNEPSTKELKEHPEAPVQRRQKKTRLPLELETSSTQKKSSSSSLLRNENGIDAEPAEEAVIQKPRRKTKKTQPAELQYANELGVEDEDIITDEQTTVEQQSVFTAPTGISQPVGKVFVEKSRRFQAADRSELIKTTENIDVSMDVKPSWTTRDVALTVHRAFRMIGLFSHGFLAGCAVWNIVVIYVLAGDQLSNLSNLLQQYKTLAYPFQSLLYLLLALSTISAFDRIDFAKISVAIRNFLALDPTALASFLYFTALILSLSQQMTSDRIHLYTPSSVNGSLWEAGIEEQILQPWIVVNLVVALLVGLSWLFLSYRPGMDLSEELMFSSEVEEYPDKEKEIKASS |
| 3724 | sp|P79874|TPB\_RANTE | MFTLKKSLLLLFFLGTINLSLCEEERNAEEERRDEPDERDVQVEKRLLPIVGNLLKSLLGK |
| 3725 | sp|A8DYE2|TRPCG\_DROME | MVVTDSPLAPHKYVRRISKDFSTVRRYSNTPAVVVGSFRASTSAFIAAESAAHLPTCSSPTTRTPVSTPRGIRRRQRMRKRSSVSSTLSKVLILNVRDLLKAHAGSEPLKEHQPRSWIETNFQKRECIKFIPCPKDDTKCCCGQAQITHQTIPGIESGSPGDLWLPTKHTRPQPTDAYGTIEFQGGAHPTKAQYVRLSFDTRPELLVQLFTKEWNLELPKLLITVQGGKANFDLQAKLKKEIRKGLLKAAKTTGAWIFTGGTNTGVTKQVGDALLLEGQQRTGRVVSIGIAPWGIVERNHELLGHNREVPCHSISSPRSKLAVLNNRHAYFLLVDNGTQAKYGAELILRRKLEKFISNLKLHPFTHSSTPVVCLVIEGGTNTIRAVLEYVTDSPPVPVVVCDGSGRAADLLAFVHKYASDGEEQPVLESMRDYLIGTIQKTFEVGLDQSEKLYQELLQCTRNKNLITVFRIQEKPEGEAQELDQTILTALFKSQHLSPPEQLSLALTWNRVDIARSEIFVYGQEWPNGALDEAMMQALEHDRIDFVKLLLENGVSMKKFLTIPRLEELYNTKHGPANTLGYILRDVRPHIPKGYIYTLHDIGLVINKLMGGAYRSYYTRRKFRPIYAKVMNSYANACRKSSTYQYQRYAGANSLSLVTGLLPFTSEMALFEFPFNELLIWAVLTKRQQMALLMWTHGEEALAKSLVSCKLYKAMAHEAAEDDLDTEIYEELRSYAKEFESKGNKLLDFSYRQDAEKAQRLLTCELHSWSNQSCLSLAVAANHRALLAHPCSQVILADLWMGGLRTRKNTNFKVILGLAMPFYIRQLDFKSKEELQQMPQTEEEHLENQNLDNDDSDRSQPDAEALLADTYSVRDTKVHENGKVSLTDSDTAQFREFFNLSEYNEVKQHQPLRLKKKFYEFYTAPITKFWADSIAYMFFLIMFSFTVLVKMEQMPRWQEWYSIAYITTLGFEKVREIISSEPVAITHKFSVWAWNMWNPCDGAAIILFVIGLAFRFRENTMDIGRVIYCVDSIYWYLRILNILGVNKYLGPLVTMMGKMVKNMIYFVVLLAVVLMSFGVSRQAILYPNKQPTWSLIKEVTFQPYFMLYGEVFAGDIDPPCGEDPSQPGCVTGHWVTPITMSMYLLIANILLINLLIAVFNNIFNEVNSVSHQVWMFQRFTVVMEYQQKPVLPPPFIALCHFYSLLKYCVRKAKGLEVQRDNGLKLFLEKDDLERLYDFEEECVEGFFHEQEIILNQSTDERVKNTTERVETMSQKIEDINQKENIQTATVQNIEFRLRKMEESSEQILSHLAVIHRFMSTHTAGADDLRGSTINIPGEMQRMRTISISDTEGGSGPGGNGGGGGGGGAIVPLGLGAGLNLNSLQVTTRRRFNRSLTEVRPDAYIFDEGTHFEVVPLPEEPDEVVKSREALNEQVVRKASMQSEADSDIYIPVSQRPSTCETVKRTPYVTVRQDTGASTESKDTLTPMGNNDDDQTLVGGDNSDDATPDINFEAARHRALRQRTVSLCRRNSETYSLTGADINRSHISLNQLASLSRRQMSLTQSEPDSDKDAPIAQGSAHPGKSVLHAKPSRNILLKLHSEYTSITDELESVCHMIASPTVSLPSNKASLDRPKTEMSRAEAAALLEKKHLKECEENDYMILEGLIESRGSIDASAQGFEIGVSIDYSHRYPLRRETAVELSPSKPSVDGDLMGGGEGGGAGGGDSSDTSGAGSCGAMVGISSGFQLKNERPWQRNSSMEQQTYPSPLVPTRATSDFLNPPYEGRLFKKSSESLQKNSSTETDYSAHPYRFIKQSSNETNTSLTGSYNVDTPSLTAEPSLDAGDSHSATGISISVGAVGGTATARYQPIRTASVGAADGRRLREESSSSLDLSSSGPVTMQAAPAPPVRPMLLKKQFSVDQGKPSQTAAEAVPQTPEAAQAGQAKLISTLKPQPFASKLGMNVLKESSSSTDESVGSSAKSSNPALSIPQISTHLVQDEIAKLSSNIKSSTESEKDPPFNETMC |
| 3726 | sp|P19018|TRA2\_DROME | MDREPLSSGRLHCSARYKHKRSASSSSAGTTSSGHKDRRSDYDYCGSRRHQRSSSRRRSRSRSSSESPPPEPRHRSGRSSRDRERMHKSREHPQASRCIGVFGLNTNTSQHKVRELFNKYGPIERIQMVIDAQTQRSRGFCFIYFEKLSDARAAKDSCSGIEVDGRRIRVDFSITQRAHTPTPGVYLGRQPRGKAPRSFSPRRGRRVYHDRSASPYDNYRDRYDYRNDRYDRNLRRSPSRNRYTRNRSYSRSRSPQLRRTSSRY |
| 3727 | sp|Q9QX29|TRPC5\_MOUSE | MAQLYYKKVNYSPYRDRIPLQIVRAETELSAEEKAFLSAVEKGDYATVKQALQEAEIYYNVNINCMDPLGRSALLIAIENENLEIMELLLNHSVYVGDALLYAIRKEVVGAVELLLSYRKPSGEKQVPTLMMDTQFSEFTPDITPIMLAAHTNNYEIIKLLVQKRVTIPRPHQIRCNCVECVSSSEVDSLRHSRSRLNIYKALASPSLIALSSEDPILTAFRLGWELKELSKVENEFKAEYEELSQQCKLFAKDLLDQARSSRELEIILNHRDDHSEELDPQKYHDLAKLKVAIKYHQKEFVAQPNCQQLLATLWYDGFPGWRRKHWVVKLLTCMTIGFLFPMLSIAYLISPRSNLGLFIKKPFIKFICHTASYLTFLFMLLLASQHIVRTDLHVQGPPPTVVEWMILPWVLGFIWGEIKEMWDGGFTEYIHDWWNLMDFAMNSLYLATISLKIVAYVKYNGSRPREEWEMWHPTLIAEALFAISNILSSLRLISLFTANSHLGPLQISLGRMLLDILKFLFIYCLVLLAFANGLNQLYFYYETRAIDEPNNCKGIRCEKQNNAFSTLFETLQSLFWSVFGLLNLYVTNVKARHEFTEFVGATMFGTYNVISLVVLLNMLIAMMNNSYQLIADHADIEWKFARTKLWMSYFDEGGTLPPPFNIIPSPKSFLYLGNWFNNTFCPKRDPDGRRRRHNLRSFTERHADSLIQNQHYQEVIRNLVKRYVAAMIRNSKTNEGLTEENFKELKQDISSFRYEVLDLLGNRKHPRRSLSTSSADFSQRDDTNDGSGGARAKSKSVSFNVGCKKKACHGAPLIRTVPRASGAQGKPKSESSSKRSFMGPSFKKLGLFFSKFNGQTSEPTSEPMYTISDGIAQQHCMWQDIRYSQMEKGKAEACSQSQMNLGEVELGEIRGAAARSSECPLACSSSLHCASGICSSNSKLLDSSEDVFETWGEACDLLMHKWGDGQEEQVTTRL |
| 3728 | sp|Q9HC21|TPC\_HUMAN | MVGYDPKPDGRNNTKFQVAVAGSVSGLVTRALISPFDVIKIRFQLQHERLSRSDPSAKYHGILQASRQILQEEGPTAFWKGHVPAQILSIGYGAVQFLSFEMLTELVHRGSVYDAREFSVHFVCGGLAACMATLTVHPVDVLRTRFAAQGEPKVYNTLRHAVGTMYRSEGPQVFYKGLAPTLIAIFPYAGLQFSCYSSLKHLYKWAIPAEGKKNENLQNLLCGSGAGVISKTLTYPLDLFKKRLQVGGFEHARAAFGQVRRYKGLMDCAKQVLQKEGALGFFKGLSPSLLKAALSTGFMFFSYEFFCNVFHCMNRTASQR |
| 3729 | sp|Q9M2X3|TRB3\_ARATH | MGAPKLKWTPEEETALKAGVLKHGTGKWRTILSDPVYSTILKSRSNVDLKDKWRNISVTALWGSRKKAKLALKRTPLSGSRQDDNATAITIVSLANGDVGGQQIDAPSPPAGSCEPPRPSTSVDKIILEAITSLKRPFGPDGKSILMYIEENFKMQPDMKRLVTSRLKYLTNVGTLVKKKHKYRISQNYMAEGEGQRSPQLLLEGNKENTPKPEENGVKNLTKSQVGGEVMIMGMTEKEAAAAAARAVAEAEFAMAEAEEAAREADKAEAEAEAAHIFAKAAMKAVKYRMHSQTR |
| 3730 | sp|B5DF45|TRAF6\_RAT | MSLLNCENSCASSQSSSDCCAAMANSCSAAMKDDSVSGCVSTGNLSSSFMEEIQGYDVEFDPPLESKYECPICLMALREAVQTPCGHRFCKACITKSIRDAGHKCPVDNEILLENQLFPDNFAKREILSLTVKCPNKGCVQKMELRHLEDHQVHCEFALVICPQCQRFFQKCQINKHIIEDCPRRQVSCVNCAVPMPYEEKEIHDQSCPLANIICEYCGTILIREQMPNHYDLDCPTAPVPCTFSVFGCHEKMQRNHLARHLQENTQLHMRLLAQAVHNVNLSLRPCDASSPSRGCRPEDPNYEETVKQLEGRLVRQDHQIRELTAKMETQSMHVSELKRTIRSLEDKVAEMEAQQCNGIYIWKIGNFGMHLKSQEEERPVVIHSPGFYTGRPGYKLCMRLHLQLPTAQRCANYISLFVHTMQGEYDSHLPWPFQGTIRLTILDQSEAVIRQNHEEVMDAKPELLAFQRPTIPRNPKGFGYVTFMHLEALRQGTFIKDDTLLVRCEVSTRFDMGGLRKEGFQPRSTDAGV |
| 3731 | sp|Q9UBN4|TRPC4\_HUMAN | MAQFYYKRNVNAPYRDRIPLRIVRAESELSPSEKAYLNAVEKGDYASVKKSLEEAEIYFKININCIDPLGRTALLIAIENENLELIELLLSFNVYVGDALLHAIRKEVVGAVELLLNHKKPSGEKQVPPILLDKQFSEFTPDITPIILAAHTNNYEIIKLLVQKGVSVPRPHEVRCNCVECVSSSDVDSLRHSRSRLNIYKALASPSLIALSSEDPFLTAFQLSWELQELSKVENEFKSEYEELSRQCKQFAKDLLDQTRSSRELEIILNYRDDNSLIEEQSGNDLARLKLAIKYRQKEFVAQPNCQQLLASRWYDEFPGWRRRHWAVKMVTCFIIGLLFPVFSVCYLIAPKSPLGLFIRKPFIKFICHTASYLTFLFLLLLASQHIDRSDLNRQGPPPTIVEWMILPWVLGFIWGEIKQMWDGGLQDYIHDWWNLMDFVMNSLYLATISLKIVAFVKYSALNPRESWDMWHPTLVAEALFAIANIFSSLRLISLFTANSHLGPLQISLGRMLLDILKFLFIYCLVLLAFANGLNQLYFYYEETKGLTCKGIRCEKQNNAFSTLFETLQSLFWSIFGLINLYVTNVKAQHEFTEFVGATMFGTYNVISLVVLLNMLIAMMNNSYQLIADHADIEWKFARTKLWMSYFEEGGTLPTPFNVIPSPKSLWYLIKWIWTHLCKKKMRRKPESFGTIGRRAADNLRRHHQYQEVMRNLVKRYVAAMIRDAKTEEGLTEENFKELKQDISSFRFEVLGLLRGSKLSTIQSANASKESSNSADSDEKSDSEGNSKDKKKNFSLFDLTTLIHPRSAAIASERHNISNGSALVVQEPPREKQRKVNFVTDIKNFGLFHRRSKQNAAEQNANQIFSVSEEVARQQAAGPLERNIQLESRGLASRGDLSIPGLSEQCVLVDHRERNTDTLGLQVGKRVCPFKSEKVVVEDTVPIIPKEKHAKEEDSSIDYDLNLPDTVTHEDYVTTRL |
| 3732 | sp|Q923U0|TM1L1\_MOUSE | MAFGKSHRDPYATSVGHLIEKATFAGVLTEDWGQFLHICDIINTTQDGPKDAVKALKKRISKNYNHKEIQLSLSLIDMCVQNCGPSFQSLIVKKEFIKDTLVKLLNPRYTLPLETQNRILNFIKTWSQGFPGGVDVSEVKEVYLDLLKKGVQFPPSDGEPETRQEAGQISPNRPTSVPTAPALSSIIAPKNPTISLVPEQIGKLHSELDMVKMNVKVMTAILMENTPGSENHEDIELLRKLYKTGREMQERIMDLLVVVENEDVTMELIQVNEDLNNAVLGYERFTRNQQRLLEQKRNRTEATRTSSEPSAPSCDLLDLSPIVPVPTPNEGALNSVNAQLSGLSVSSLSPVITNNLYPSLQPQRDLLASEDIEIPTLFPQRTSQNLASSHTYDNFHSNSVLLQPVSLHTATAAAAANQRLPPLPSSHPVLKDGDLQPPNYYEVMEFDPLAPTTEAVYEEIDGYHQKEAQSHSDC |
| 3733 | sp|O00635|TRI38\_HUMAN | MASTTSTKKMMEEATCSICLSLMTNPVSINCGHSYCHLCITDFFKNPSQKQLRQETFCCPQCRAPFHMDSLRPNKQLGSLIEALKETDQEMSCEEHGEQFHLFCEDEGQLICWRCERAPQHKGHTTALVEDVCQGYKEKLQKAVTKLKQLEDRCTEQKLSTAMRITKWKEKVQIQRQKIRSDFKNLQCFLHEEEKSYLWRLEKEEQQTLSRLRDYEAGLGLKSNELKSHILELEEKCQGSAQKLLQNVNDTLSRSWAVKLETSEAVSLELHTMCNVSKLYFDVKKMLRSHQVSVTLDPDTAHHELILSEDRRQVTRGYTQENQDTSSRRFTAFPCVLGCEGFTSGRRYFEVDVGEGTGWDLGVCMENVQRGTGMKQEPQSGFWTLRLCKKKGYVALTSPPTSLHLHEQPLLVGIFLDYEAGVVSFYNGNTGCHIFTFPKASFSDTLRPYFQVYQYSPLFLPPPGD |
| 3734 | sp|O74887|TPX1\_SCHPO | MSLQIGKPAPDFKGTAVVNGAFEEIKLADYKGKWVFLGFYPLDFTFVCPTEIVAFSEAASKFAERNAQVILTSTDSEYSHLAFINTPRKEGGLGGINIPLLADPSHKVSRDYGVLIEDAGVAFRGLFLIDPKGVLRQITINDLPVGRSVDEALRLLDAFQFVEEHGEVCPANWHKGSDTIDTKNPEKYFSKH |
| 3735 | sp|P56180|TPTE\_HUMAN | MNESPDPTDLAGVIIELGPNDSPQTSEFKGATEEAPAKESPHTSEFKGAARVSPISESVLARLSKFEVEDAENVASYDSKIKKIVHSIVSSFAFGLFGVFLVLLDVTLILADLIFTDSKLYIPLEYRSISLAIALFFLMDVLLRVFVERRQQYFSDLFNILDTAIIVILLLVDVVYIFFDIKLLRNIPRWTHLLRLLRLIILLRIFHLFHQKRQLEKLIRRRVSENKRRYTRDGFDLDLTYVTERIIAMSFPSSGRQSFYRNPIKEVVRFLDKKHRNHYRVYNLCSERAYDPKHFHNRVVRIMIDDHNVPTLHQMVVFTKEVNEWMAQDLENIVAIHCKGGTDRTGTMVCAFLIASEICSTAKESLYYFGERRTDKTHSEKFQGVKTPSQKRYVAYFAQVKHLYNWNLPPRRILFIKHFIIYSIPRYVRDLKIQIEMEKKVVFSTISLGKCSVLDNITTDKILIDVFDGLPLYDDVKVQFFYSNLPTYYDNCSFYFWLHTSFIENNRLYLPKNELDNLHKQKARRIYPSDFAVEILFGEKMTSSDVVAGSD |
| 3736 | sp|Q14134|TRI29\_HUMAN | MEAADASRSNGSSPEARDARSPSGPSGSLENGTKADGKDAKTTNGHGGEAAEGKSLGSALKPGEGRSALFAGNEWRRPIIQFVESGDDKNSNYFSMDSMEGKRSPYAGLQLGAAKKPPVTFAEKGELRKSIFSESRKPTVSIMEPGETRRNSYPRADTGLFSRSKSGSEEVLCDSCIGNKQKAVKSCLVCQASFCELHLKPHLEGAAFRDHQLLEPIRDFEARKCPVHGKTMELFCQTDQTCICYLCMFQEHKNHSTVTVEEAKAEKETELSLQKEQLQLKIIEIEDEAEKWQKEKDRIKSFTTNEKAILEQNFRDLVRDLEKQKEEVRAALEQREQDAVDQVKVIMDALDERAKVLHEDKQTREQLHSISDSVLFLQEFGALMSNYSLPPPLPTYHVLLEGEGLGQSLGNFKDDLLNVCMRHVEKMCKADLSRNFIERNHMENGGDHRYVNNYTNSFGGEWSAPDTMKRYSMYLTPKGGVRTSYQPSSPGRFTKETTQKNFNNLYGTKGNYTSRVWEYSSSIQNSDNDLPVVQGSSSFSLKGYPSLMRSQSPKAQPQTWKSGKQTMLSHYRPFYVNKGNGIGSNEAP |
| 3737 | sp|Q9HCM9|TRI39\_HUMAN | MAETSLLEAGASAASTAAALENLQVEASCSVCLEYLKEPVIIECGHNFCKACITRWWEDLERDFPCPVCRKTSRYRSLRPNRQLGSMVEIAKQLQAVKRKIRDESLCPQHHEALSLFCYEDQEAVCLICAISHTHRAHTVVPLDDATQEYKEKLQKCLEPLEQKLQEITRCKSSEEKKPGELKRLVESRRQQILREFEELHRRLDEEQQVLLSRLEEEEQDILQRLRENAAHLGDKRRDLAHLAAEVEGKCLQSGFEMLKDVKSTLEKNIPRKFGGSLSTICPRDHKALLGLVKEINRCEKVKTMEVTSVSIELEKNFSNFPRQYFALRKILKQLIADVTLDPETAHPNLVLSEDRKSVKFVETRLRDLPDTPRRFTFYPCVLATEGFTSGRHYWEVEVGDKTHWAVGVCRDSVSRKGELTPLPETGYWRVRLWNGDKYAATTTPFTPLHIKVKPKRVGIFLDYEAGTLSFYNVTDRSHIYTFTDTFTEKLWPLFYPGIRAGRKNAAPLTIRPPTDWE |
| 3738 | sp|P21845|TRYB2\_MOUSE | MLKRRLLLLWALSLLASLVYSAPRPANQRVGIVGGHEASESKWPWQVSLRFKLNYWIHFCGGSLIHPQWVLTAAHCVGPHIKSPQLFRVQLREQYLYYGDQLLSLNRIVVHPHYYTAEGGADVALLELEVPVNVSTHIHPISLPPASETFPPGTSCWVTGWGDIDNDEPLPPPYPLKQVKVPIVENSLCDRKYHTGLYTGDDFPIVHDGMLCAGNTRRDSCQGDSGGPLVCKVKGTWLQAGVVSWGEGCAQPNKPGIYTRVTYYLDWIHRYVPEHS |
| 3739 | sp|P49126|TXI92\_DIGCA | MKVFVVLLCLSLAAVYALEERLDKDADIMLDSPADMERAKDGDVEGPAGCKKYDVECDSGECCQKQYLWYKWRPLDCRCLKSGFFSSKCVCRDV |
| 3740 | sp|P46944|TRS85\_YEAST | MVFSYEHYMNLLFHLDNSKETVPPEIAKRIISNAIAPVITVTSTPLFDKHIQETYKVDSLYMLLRFFGGCVSDRDQANEAKVGQHEHEVCDASDSTDSIPKNKNLEVPNLSKKGSRSRSNSLFQRDSTQSQYIRFTRPLGDLIETRDANDMLFNYHSLEVFLDNYLKLVAANTDEMVPHNLLKKSIYHSFFSLAISSTNNLSPYETFNHPILSLIALDISNGEVYEDARDLLVNFKNLNHNTENFPIFMNTNEMLPVFLLCYNDDSQEEFEKCQALAKKLKKQLFVESILLALWKDSFIYDENSVIQLHQPVMSSLEEILFFLQAPTQTTLSLALINSIYDMLDYLVYDLMIPFMKRKVSFWEETILQPRKSLFNGAKFFKKFMNKNPVNGNHQHNSLTRDSQGNEYFASSSSEFLMRKLADWSMMLSDFKTAYSTYESLMDDLDAFPKYLASCIEWCAVSLLMGAQSIVTVKMIKNDINPLIERALATYENCSRIQRGKGKESNSLDVTEPVRSYETRCMILASELFLSLSNTWTSTPYAIQYLETILDECKLGPCSQIMVWERLSDCYNLRVDPRIKHRVGAMKKDAKDTEDLRGEHKYSTDHFTDEDILSEGLTRRRKAAFFRLIAAKKWAEQKQWRQVSWCLKDIESTYSEIKFLHGNGLILSKLKNQLNLKDVDSAPRPSEKNLTRTSVSFIG |
| 3741 | sp|Q9WTR1|TRPV2\_MOUSE | MTSASNPPAFRLETSDGDEEGSAEVNKGKNEPPPMESPFQGEDRNFSPQIKVNLNYRKGLGPSQQDPNRFDRDRLFSVVSRGVPEELTGLLEYLRRTSKYLTDSAYTEGSTGKTCLMKAVLNLQDGVNACILPLLQIDRDSGNPQPLVNAQCTDEFYRGHSALHIAIEKRSLWCVKLLVENGANVHIRACGRFFQKHQGTCFYFGELPLSLAACTKQWDVVTYLLENPHQPASLEATDSLGNTVLHALVMIADNSPENSALVIHMYDSLLQMGARLCPTVQLEDICNHQGLTPLKLAAKEGKIEIFRHILQREFSGLYQPLSRKFTEWCYGPVRVSLYDLSSVDSWEKNSVLEIIAFHCKSPHRHRMVVLEPLNKLLQEKWDRLIPRFFFNFACYLVYMIIFTIVAYHQPSLEQPAIPSSKATFGDSMLLLGHILILLGGIYLLLGQLWYFWRRRLFIWISFMDSYFEILFLVQALLTVLSQVLRFVETEWYLPLLVSSLVLGWLNLLYYTRGFQHTGIYSVMIQKVILRDLLRFLLVYLVFLFGFAVALVSLSREARSPKAPEDSNTTVTEKPTLGQEEEPVPYGGILDASLELFKFTIGMGELAFQEQLRFRGVVLLLLLAYVLLTYVLLLNMLIALMSETVNSVATDSWSIWKLQKAISVLEMENGYWWCRRKRHRAGRLLKVGTKGDGIPDERWCFRVEEVNWAAWEKTLPTLSEDPSGAGITGYKKNPTSKPGKNSASEEDHLPLQVLQSH |
| 3742 | sp|P97931|UNG\_MOUSE | MIGQKTLYSFFSPTPTGKRTTRSPEPVPGSGVAAEIGGDAVASPAKKARVEQNEQGSPLSAEQLVRIQRNKAAALLRLAARNVPAGFGESWKQQLCGEFGKPYFVKLMGFVAEERNHHKVYPPPEQVFTWTQMCDIRDVKVVILGQDPYHGPNQAHGLCFSVQRPVPPPPSLENIFKELSTDIDGFVHPGHGDLSGWARQGVLLLNAVLTVRAHQANSHKERGWEQFTDAVVSWLNQNLSGLVFLLWGSYAQKKGSVIDRKRHHVLQTAHPSPLSVHRGFLGCRHFSKANELLQKSGKKPINWKEL |
| 3743 | sp|P61960|UFM1\_HUMAN | MSKVSFKITLTSDPRLPYKVLSVPESTPFTAVLKFAAEEFKVPAATSAIITNDGIGINPAQTAGNVFLKHGSELRIIPRDRVGSC |
| 3744 | sp|O95758|PTBP3\_HUMAN | MDGVVTDLITVGLKRGSDELLSSGIINGPFTMNSSTPSTANGNDSKKFKRDRPPCSPSRVLHLRKIPCDVTEAEIISLGLPFGKVTNLLMLKGKSQAFLEMASEEAAVTMVNYYTPITPHLRSQPVYIQYSNHRELKTDNLPNQARAQAALQAVSAVQSGSLALSGGPSNEGTVLPGQSPVLRIIIENLFYPVTLEVLHQIFSKFGTVLKIITFTKNNQFQALLQYADPVNAHYAKMALDGQNIYNACCTLRIDFSKLTSLNVKYNNDKSRDFTRLDLPTGDGQPSLEPPMAAAFGAPGIISSPYAGAAGFAPAIGFPQATGLSVPAVPGALGPLTITSSAVTGRMAIPGASGIPGNSVLLVTNLNPDLITPHGLFILFGVYGDVHRVKIMFNKKENALVQMADANQAQLAMNHLSGQRLYGKVLRATLSKHQAVQLPREGQEDQGLTKDFSNSPLHRFKKPGSKNFQNIFPPSATLHLSNIPPSVTVDDLKNLFIEAGCSVKAFKFFQKDRKMALIQLGSVEEAIQALIELHNHDLGENHHLRVSFSKSTI |
| 3745 | sp|Q05085|PTR7\_ARATH | MSLPETKSDDILLDAWDFQGRPADRSKTGGWASAAMILCIEAVERLTTLGIGVNLVTYLTGTMHLGNATAANTVTNFLGTSFMLCLLGGFIADTFLGRYLTIAIFAAIQATGVSILTLSTIIPGLRPPRCNPTTSSHCEQASGIQLTVLYLALYLTALGTGGVKASVSGFGSDQFDETEPKERSKMTYFFNRFFFCINVGSLLAVTVLVYVQDDVGRKWGYGICAFAIVLALSVFLAGTNRYRFKKLIGSPMTQVAAVIVAAWRNRKLELPADPSYLYDVDDIIAAEGSMKGKQKLPHTEQFRSLDKAAIRDQEAGVTSNVFNKWTLSTLTDVEEVKQIVRMLPIWATCILFWTVHAQLTTLSVAQSETLDRSIGSFEIPPASMAVFYVGGLLLTTAVYDRVAIRLCKKLFNYPHGLRPLQRIGLGLFFGSMAMAVAALVELKRLRTAHAHGPTVKTLPLGFYLLIPQYLIVGIGEALIYTGQLDFFLRECPKGMKGMSTGLLLSTLALGFFFSSVLVTIVEKFTGKAHPWIADDLNKGRLYNFYWLVAVLVALNFLIFLVFSKWYVYKEKRLAEVGIELDDEPSIPMGH |
| 3746 | sp|Q32ZD7|POLG\_ILHV | MSKKPGKSAAKRTVNMLKRLASVSPSRGRRTIRRMLDVRGAPRLILALMAFFRFAAIKPTLGLKKRWRSVNKTVAVKHLTNFKKELTTMLDSVNKRKEKKKSFSTALLWITMITAVAGLKISSHRDRPLLMVNKTDVSDAIPVPSVKGTNMCTIRALDVGYTCAYDTTYECPHLEVTMDPEDIDCWCTLESVYVNYGLCKQNHHVRRGRRAINIPHHGESHLENRATPWMDTTKTTKYLTKVENWVIRNPGYALVALATAWMLGSNTPQRVVFMIMMMLIAPAYSLNCLGISNRDFVEGLSGGTWVDIVLEGGSCVTVMAKDKPTLDIKLIRMEAKDLATVRSYCYQATVTDSSTEARCPTMGEAHNSKSLDASYVCKSSYVDRGWGNGCGLFGKGSIQTCVKFSCPGKATGKSIQRENLNYDVAVYVHGPISAAAHGNYTAQLTGKYAAKFSITPSAPTYTANLGEYGEATMECEPRAALDIDNYYVMSLNNKHWLVNRDWFHDLDLPWTGPATESWKNRESLIEFEEPHATRQTVVALGNQEGALHTALAGAIPVEVSSTTLTLNSGHLKCRLKLDKLKIKGTTYAMCKGTFAFAQTPVDTGHGTIVAELTYTGTDGPCKIPISMTADLRDMTPIGRLVTVNPIIPSSAKSQKILVELEPPFGSSFILVGQENNQIKYQWHKTGSTIGNALKTTWKGAQRFAVLGDTAWDFGSVGGIFNSIGKTIHGVFGTAFRSLFGGMSWVTQALMGALLLWLGISARERTVSLIMLSVGGILLFLAVNVHADTGCAIDMARRELKCGSGIFIHNDVETWRNNYKYHPLTPRGFAKVIQMSKDKGVCGIRSVGRLEHEMWEAIAPELNAIFEDNGVDLSVVVKGQTGIYKRAPKRLTETKDEMSFGWKNWGKSFIFSTETANSTFIVDGPESKECPTSDRAWNSLELEDFGFGIISTKIFLKVNEQRGNSCDSAVIGTAVKGNEAVHSDLGFWIQSTKNESWQLERAVLGEVKSCTWPESHTLWGDGVEESDLIIPITLAGPKSHHNMRPGYKTQTKGPWHEETPLVIEFAECPGTTVTQEESCGGRGPSIRTTTASGRTIRNWCCKNCTLPPLRFMAGENCWYGVEVRPKRENEETLIKSKVSAGNGQTIEPFQLGILMAFVFTQEVLRRRWTANLALPTSALLMACFIFGGFTYLDLFRYFILVGAAFAEANSGGDVVHLAMIAAFNIQPVALVTTFFRKNWTNRENMILIIAAACTQMACMELKIELFHVMNSLSLAWMILKALTTGTTSTLAMPFLAALSPPMNWLGLDVVRCLLIMAGVAALISERRESLAKKKGALLISAALALTGAFSPLVLQGALMFTQSLGKRGWPASEVLTAVGMTFALAGSVARLDGGTMAIPLATMAILAVAYVLSGKSTDMWLERCADISWINEAEITGTSPRLDVELDSNGDFKMINDPGVPMWMWTCRMGLMAMAAYNPVLIPVSMAGYWMTVKIHKRGGVMWDVPAPKQFGKTELKPGVYRVMTMGILGRYQSGVGVMWDGVFHTMWHVTQGAALRNGEGRLNPTWGSVRDDLISYGGKWKLSATWNGSEEVQMIAVEPGKAAKNYQTKPGVFKTPAGEIGAITLDFPKGTSGSPIINKAGEITGLYGNGIVLERGAYVSAITQGERQEEETPEAFTPDMLKKRRLTILDLHPGAGKTRRVIPQIVRECVKARLRTVILVPTRVVAAEMAEALRGLPIRYQTSAVKAEHSGNEIVDAMRHATLTQRLLTPAKVPNYNVFVMDEAHFTDPASIAARGYISTKVELGEAAAIFMTATPPGTTDPFPDSNAPIIDQEAEIPDRAWNSGFEWITEYTGKTVWFVPSVRMGNEIAMCLTKAGKKVIQLNRKSYDSEYQKCKGNDWDFVITTDISEMGANFGAHRVIDSRKCVKPVILDGDDRVLMNGPAPITPASAAQRRGRIGRDPTQSGDEYFYGGPTTTDDTGHAHWIEAKILLDNIQLQNGLVAQLYGPERDKVFTTDGEYRLRSEQKKNFVEFLRTGDLPVWLSYKVAEAGYAYTDRRWCFDGPANNTILEVRGDPEVWTRQGEKRILRPRWSDARVYCDNQALRSFKEFAAGKRSAGSVMEVMGRMPDYFWTKTLNAADNLYVLATANKGGRAHQAALEELPDTVETILLMTMMCVASLGMFTLMVHRRGLGKTGLGTLVLATVTVLLWISDVPAPKIAGVLLIAFLLMIVLIPEPEKQRSQTDNHLAIFLVCVLLLIGAVSANEMGWLETTKKDIGKLFRSSGDTQEQSTWQSWAPEVRAATAWAGYAGLTVFLTPLFRHLITTQYVSFSLTAITAQASALFGLSAGYPFVGIDLAVGFLLLGCYGQYNLPTAVATGLLLLAHYGYMIPGWQAEAMRAAQKRTAAGVMKNAVVDGIVATDIPEVDTATPITEKKLGQILLILLCGASLLVKFDTMVLVEAGVLTTSAMATLIEGNANTVWNSTVAVGVCHLMRGAWLAGPSIGWTIVRNLENPKLKRGGGSAPTLGEIWKAQLNQLTREEFMAYRRDGILEVDRTQARRARQSGITTGGHPVSRGTAKLRWMVERGFVRPIGKVVDLGCGRGGWSYYCATLRHVQEVRGYTKGGPGHEEPVMMQSYGWNIVTMKSGVDVFYKPTESCDTLLCDIGESSSSVGVEEARTLRVLDMVEPWLRAANSFCIKVLCPYTPKVIERLERLQRAYGGGLVRVPLSRNSTHEMYWVSGASSNIINAVTVTSQILVQRMNKGCRHGPRYEEDVCLGSGTRAVATQASPSDHTKIKHRLERLRKEFSATWHIDLEHPYRTWHYHGSYEVQPTGSANSMVNGVVRLLSKPWDAITSVVTMAMTDTTPFGQQRVFKEKVDTRAPDPAVGVAQALDITTGWLWTFLARSKKPRMCTREEFIAKVNSNAALGAVFDEQNQWSTAREAVEDPAFWNLVDEERKAHLAGRCETCIYNMMGKREKKLGEFGKAKGSRAIWYMWLGARFLEFEALGFLNEDHWMSRENSLGGVEGQGLQKLGYILRDISHLEGGNMFADDTAGWDTRITRADLENEAKVMNMMDGEHKQLAKAIIELTYRHKVVKVMRPARGGKTVMDIISREDQRGSGQVVTYALNTFTNLAAQLVRCMEGEELLTESDVHGLSPKKKQAVRNWLIQNGRERLSRMAVSGDDCVVKPIDDRFASALHFLNGMAKIRKDTQEWKPSVGWSNWQEVPFGSHHFNELLMKDGRTIVVPCRSQDELVGRARVSPGSGWSLRETACLSKAYAQMWLLMYFHRRDLRLMANAICSAVPVDWVPTGRTTWSIHGKGEWMTTEDMLQVWNRVWIEDNEHMEDKTPITSWTDIPYIGKREDQWCGSLIGTRQRATWAENIYTPIMQIRNLIGDEKYVDCMVSQHRFETPSPVLFTGAI |
| 3747 | sp|Q3UQ28|PXDN\_MOUSE | MAVRPTRRCLLALLLCFAWWAMAVVASKQGAGCPSRCLCFRTTVRCMHLLLEAVPAVAPQTSILDLRFNRIREIQPGAFRRLRSLNTLLLNNNQIKKIPNGAFEDLENLKYLYLYKNEIQSIDRQAFKGLASLEQLYLHFNQIETLDPESFQHLPKLERLFLHNNRITHLVPGTFSQLESMKRLRLDSNALHCDCEILWLADLLKTYAQSGNAQAAATCEYPRRIQGRSVATITPEELNCERPRITSEPQDADVTSGNTVYFTCRAEGNPKPEIIWLRNNNELSMKTDSRLNLLDDGTLMIQNTQEADEGVYQCMAKNVAGEAKTQEVTLRYLGSPARPTFVIQPQNTEVLVGESVTLECSATGHPLPQITWTRGDRTPLPIDPRVNITPSGGLYIQNVAQSDSGEYTCFASNSVDSIHATAFIIVQALPQFTVTPQSRVVIEGQTVDFQCAAKGHPQPVIAWTKGGSQLSVDRRHLVLSSGTLRISGVALHDQGQYECQAVNIIGSQKVVAHLTVQPRVTPVFASIPSDMTVEVGTNVQLPCSSQGEPEPAITWNKDGVQVTESGKFHISPEGFLTINDVGTADAGRYECVARNTIGYASVSMVLSVNVPDVSRNGDPYVATSIVEAIATVDRAINSTRTHLFDSRPRSPNDLLALFRYPRDPYTVGQARAGEIFERTLQLIQEHVQHGLMVDLNGTSYHYNDLVSPQYLSLIANLSGCTAHRRVNNCSDMCFHQKYRTHDGTCNNLQHPMWGASLTAFERLLKAVYENGFNTPRGINSQRQYNGHVLPMPRLVSTTLIGTEVITPDEQFTHMLMQWGQFLDHDLDSTVVALSQARFSDGQHCSSVCSNDPPCFSVMIPPNDPRVRSGARCMFFVRSSPVCGSGMTSLLMNSVYPREQINQLTSYIDASNVYGSTDHEARSIRDLASHRGLLRQGIVQRSGKPLLPFATGPPTECMRDENESPIPCFLAGDHRANEQLGLTSMHTLWFREHNRIAAELLKLNPHWDGDTVYHETRKIVGAEIQHITYRHWLPKILGEVGMKMLGEYRGYDPSVNAGIFNAFATAAFRFGHTLINPLLYRLDENFEPIPQGHVPLHKAFFSPFRIVNEGGIDPLLRGLFGVAGKMRIPSQLLNTELTERLFSMAHTVALDLAAINIQRGRDHGIPPYHDYRVYCNLSAAYTFEDLKNEIKSPVIREKLQRLYGSTLNIDLFPALMVEDLVPGSRLGPTLMCLLSTQFRRLRDGDRLWYENPGVFSPAQLTQLKQTSLARILCDNSDNITRVQQDVFRVAEFPHGYSSCEDIPRVDLRVWQDCCEDCRTRGQFNAFSYHFRGRRSLEFSYEDDKPTKRARWRKALSVKHGKHLSNATSATHEHLEGPATNDLKEFVLEMQKIITDLRKQINSLESRLSTTECVDDSGESHGGNTKWKKDPCTVCECKNGQITCFVEACQPAACPQPVKVEGACCPVCLKNTAEEKP |
| 3748 | sp|Q29626|PTGIS\_BOVIN | MSWAVVFGLLAALLLLLLLTRRRTRRPGEPPLDLGSIPWLGHALEFGKDAAGFLTRMKEKHGDIFTVLVGGRHVTVLLDPHSYDAVVWEPRSRLDFHAYAVFLMERIFDVQLPHYNPGDEKSKMKPTLLHKELQALTDAMYTNLRTVLLGDTVEAGSGWHEMGLLEFSYGFLLRAGYLTQYGVEAPPHTQESQAQDRVHSADVFHTFRQLDLLLPKLARGSLSAGDKDRVGKVKGRLWKLLSPTRLASRAHRSRWLESYLLHLEEMGVSEEMQARALVLQLWATQGNMGPAAFWLLLFLLKNPEALAAVRGELETVLLGAEQPISQMTTLPQKVLDSMPVLDSVLSESLRLTAAPFITREVVADLALPMADGREFSLRRGDRLLLFPFLSPQKDPEIYTDPEVFKYNRFLNPDGSEKKDFYKDGKRLKNYSLPWGAGHNQCLGKGYAVNSIKQFVFLVLTQFDLELITPDVDIPEFDLSRYGFGLMQPEHDVPVRYRIRP |
| 3749 | sp|Q09476|PXL1\_CAEEL | MPSDDRFADAVKPALEALLSDLQHTTEVLRRAHISDRRSQSRDDFEQSYDLQGNLNTQSVSNGNITTSPYKRRSSEGKDYSKSQERIYENESRLNPPVYSRPSVQSLLSQVEEPPIRASSSRKSLGPPSQAQSYSDVRSNGRSPSRDPLHSDSMIGTMNGELSSKHGVNTIPKGDCAACGKPIIGQVVIALGKMWHPEHYTCCECGAELGQRPFFERNGRAFCEEDYHNQFSPKCQGCHRAITDRCVSVMNKNFHIECFTCAECNQPFGEDGFHEKNGQTYCKRDFFRLFAPKCNGCSQPITSNFITALGTHWHPDCFVCQHCGVSFNGASFFEHNGAPLCERHYHESRGSICSQCRGAINGRCVAAMGRKFHPEHFRCSYCNHQLTKGTFKEVDRRPFCHKCYNNTYALTPA |
| 3750 | sp|Q91Z31|PTBP2\_MOUSE | MDGIVTEVAVGVKRGSDELLSGSVLSSPNSNMSGMVVTANGNDSKKFKGEDKMDGAPSRVLHIRKLPGEVTETEVIALGLPFGKVTNILMLKGKNQAFLELATEEAAITMVNYYSAVTPHLRNQPIYIQYSNHKELKTDNTLNQRAQVVLQAVTAVQTANTPLSGTTVSESAVTPAQSPVLRIIIDNMYYPVTLDVLHQIFSKFGAVLKIITFTKNNQFQALLQYGDPVNAQQAKLALDGQNIYNACCTLRIDFSKLVNLNVKYNNDKSRDYTRPDLPSGDGQPALDPAIAAAFAKETSLLAVPGALSPLAIPNAAAAAAAAAAGRVGMPGVSAGGNTVLLVSNLNEEMVTPQSLFTLFGVYGDVQRVKILYNKKDSALIQMADGNQSQLAMNHLNGQKMYGKIIRVTLSKHQTVQLPREGLDDQGLTKDFGNSPLHRFKKPGSKNFQNIFPPSATLHLSNIPPSVAEEDLRTLFANTGGTVKAFKFFQDHKMALLQMATVEEAIQALIDLHNYNLGENHHLRVSFSKSTI |
| 3751 | sp|Q03431|PTH1R\_HUMAN | MGTARIAPGLALLLCCPVLSSAYALVDADDVMTKEEQIFLLHRAQAQCEKRLKEVLQRPASIMESDKGWTSASTSGKPRKDKASGKLYPESEEDKEAPTGSRYRGRPCLPEWDHILCWPLGAPGEVVAVPCPDYIYDFNHKGHAYRRCDRNGSWELVPGHNRTWANYSECVKFLTNETREREVFDRLGMIYTVGYSVSLASLTVAVLILAYFRRLHCTRNYIHMHLFLSFMLRAVSIFVKDAVLYSGATLDEAERLTEEELRAIAQAPPPPATAAAGYAGCRVAVTFFLYFLATNYYWILVEGLYLHSLIFMAFFSEKKYLWGFTVFGWGLPAVFVAVWVSVRATLANTGCWDLSSGNKKWIIQVPILASIVLNFILFINIVRVLATKLRETNAGRCDTRQQYRKLLKSTLVLMPLFGVHYIVFMATPYTEVSGTLWQVQMHYEMLFNSFQGFFVAIIYCFCNGEVQAEIKKSWSRWTLALDFKRKARSGSSSYSYGPMVSHTSVTNVGPRVGLGLPLSPRLLPTATTNGHPQLPGHAKPGTPALETLETTPPAMAAPKDDGFLNGSCSGLDEEASGPERPPALLQEEWETVM |
| 3752 | sp|P28650|PURA1\_MOUSE | MSGTRASNDRPPGTGGVKRGRLQQEAAATGSRVTVVLGAQWGDEGKGKVVDLLATDADIVSRCQGGNNAGHTVVVDGKEYDFHLLPSGIINTKAVSFIGNGVVIHLPGLFEEAEKNEKKGLKDWEKRLIISDRAHLVFDFHQAVDGLQEVQRQAQEGKNIGTTKKGIGPTYSSKAARTGLRICDLLSDFDEFSARFKNLAHQHQSMFPTLEIDVEGQLKRLKGFAERIRPMVRDGVYFMYEALHGPPKKVLVEGANAALLDIDFGTYPFVTSSNCTVGGVCTGLGIPPQNIGDVYGVVKAYTTRVGIGAFPTEQINEIGDLLQNRGHEWGVTTGRKRRCGWLDLMILRYAHMVNGFTALALTKLDILDVLSEIKVGISYKLNGKRIPYFPANQEILQKVEVEYETLPGWKADTTGARKWEDLPPQAQSYVRFVENHMGVAVKWVGVGKSRESMIQLF |
| 3753 | sp|P20417|PTN1\_RAT | MEMEKEFEQIDKAGNWAAIYQDIRHEASDFPCRIAKLPKNKNRNRYRDVSPFDHSRIKLHQEDNDYINASLIKMEEAQRSYILTQGPLPNTCGHFWEMVWEQKSRGVVMLNRIMEKGSLKCAQYWPQKEEKEMVFDDTNLKLTLISEDVKSYYTVRQLELENLATQEAREILHFHYTTWPDFGVPESPASFLNFLFKVRESGSLSPEHGPIVVHCSAGIGRSGTFCLADTCLLLMDKRKDPSSVDIKKVLLEMRRFRMGLIQTADQLRFSYLAVIEGAKFIMGDSSVQDQWKELSHEDLEPPPEHVPPPPRPPKRTLEPHNGKCKELFSNHQWVSEESCEDEDILAREESRAPSIAVHSMSSMSQDTEVRKRMVGGGLQSAQASVPTEEELSPTEEEQKAHRPVHWKPFLVNVCMATALATGAYLCYRVCFH |
| 3754 | sp|P30520|PURA2\_HUMAN | MAFAETYPAASSLPNGDCGRPRARPGGNRVTVVLGAQWGDEGKGKVVDLLAQDADIVCRCQGGNNAGHTVVVDSVEYDFHLLPSGIINPNVTAFIGNGVVIHLPGLFEEAEKNVQKGKGLEGWEKRLIISDRAHIVFDFHQAADGIQEQQRQEQAGKNLGTTKKGIGPVYSSKAARSGLRMCDLVSDFDGFSERFKVLANQYKSIYPTLEIDIEGELQKLKGYMEKIKPMVRDGVYFLYEALHGPPKKILVEGANAALLDIDFGTYPFVTSSNCTVGGVCTGLGMPPQNVGEVYGVVKAYTTRVGIGAFPTEQDNEIGELLQTRGREFGVTTGRKRRCGWLDLVLLKYAHMINGFTALALTKLDILDMFTEIKVGVAYKLDGEIIPHIPANQEVLNKVEVQYKTLPGWNTDISNARAFKELPVNAQNYVRFIEDELQIPVKWIGVGKSRESMIQLF |
| 3755 | sp|P17706|PTN2\_HUMAN | MPTTIEREFEELDTQRRWQPLYLEIRNESHDYPHRVAKFPENRNRNRYRDVSPYDHSRVKLQNAENDYINASLVDIEEAQRSYILTQGPLPNTCCHFWLMVWQQKTKAVVMLNRIVEKESVKCAQYWPTDDQEMLFKETGFSVKLLSEDVKSYYTVHLLQLENINSGETRTISHFHYTTWPDFGVPESPASFLNFLFKVRESGSLNPDHGPAVIHCSAGIGRSGTFSLVDTCLVLMEKGDDINIKQVLLNMRKYRMGLIQTPDQLRFSYMAIIEGAKCIKGDSSIQKRWKELSKEDLSPAFDHSPNKIMTEKYNGNRIGLEEEKLTGDRCTGLSSKMQDTMEENSESALRKRIREDRKATTAQKVQQMKQRLNENERKRKRWLYWQPILTKMGFMSVILVGAFVGWTLFFQQNAL |
| 3756 | sp|Q9W2E7|RAE1\_DROME | MFGATQSTNRMNDFEVASPPDDSVSALEFSPSTVQKNFLVAGSWDSTVRCWEVEQNGATVPKSMKTMGGPVLDVCWSDDGSKVFVASCDKQVKLWDLASDQVMQVAAHDGPVKTCHMVKGPTYTCLMTGSWDKTLKFWDTRSPNPMMTINLPERCYCADVEYPMAVVGTANRGLIIYSLQNSPTEYKRQESPLKYQHRAISIFRDKKKEPTGCALGSIEGRVAIQYVNPGNPKDNFTFKCHRTTGTSGYQDIYAVNDIAFHPVHGTLVTVGSDGTFSFWDKDARTKLKSSETMDQSITKCGFNANGQIFAYAVGYDWSKGHEYFNPAKKPQIFLRSCYDELKPRIN |
| 3757 | sp|Q9LE82|RAGP1\_ARATH | MDHSAKTTQNRVLSVKMWPPSKSTRLMLVERMTKNITTPSIFSRKYGLLSVEEAEQDAKRIEDLAFATANKHFQNEPDGDGTSAVHVYAKESSKLMLDVIKRGPQEESEVEVSKDGDVFFDISGGSRAFIEEEEARDLLRPLADPRNSYTKIRFSNRSFGSEAAKFAASVLSSIKDQLTEVDLSDFVAGRPEAEALEVMNMFSSALEGSKLRYLNLSDNALGEKGIRAFASLINSQHDLEELYLMNDGISEDAARAVRELLPSTDKIRVLQFHNNMTGDEGATAIAEIVRECPSLEDFRCSSTRIGSEGGVALAEALEHCSHLKKLDLRDNMFGVEGGIALAKTLSVLTHLTEIYMSYLNLEDEGTEALSEALLKSAPSLEVLELAGNDITVKSTGNLAACIASKQSLAKLNLSENELKDEGTILIAKAVEGHDQLVEVDLSTNMIRRAGARALAQTVVKKNTFKLLNINGNFISEEGIDEVNDMFKDCLDKLVPLDDNDPEGEDFEDEDEEEEGEDGNELESKLGSLKIKQGEE |
| 3758 | sp|O08603|RAE1B\_MOUSE | MAKAAVTKRHHFMIQKLLILLSYGYTNGLDDAHSLRCNLTIKDPTPADPLWYEAKCFVGEILILHLSNINKTMTSGDPGETANATEVKKCLTQPLKNLCQKLRNKVSNTKVDTHKTNGYPHLQVTMIYPQSQGRTPSATWEFNISDSYFFTFYTENMSWRSANDESGVIMNKWKDDGEFVKQLKFLIHECSQKMDEFLKQSKEKPRSTSRSPSITQLTSTSPLPPPSHSTSKKGFISVGLIFISLLFAFAFAM |
| 3759 | sp|Q9SN68|RAF2B\_ARATH | MAAAGNKSINAKLVLLGDVGAGKSSLVLRFVKDQFVEFQESTIGAAFFSQTLAVNDATVKFEIWDTAGQERYHSLAPMYYRGAAAAIIVFDVTNQASFERAKKWVQELQAQGNPNMVMALAGNKSDLLDARKVTAEDAQTYAQENGLFFMETSAKTATNVKEIFYEIARRLPRVQPTENPTGMVLPDRAMDRAVSSSCCA |
| 3760 | sp|P43487|RANG\_HUMAN | MAAAKDTHEDHDTSTENTDESNHDPQFEPIVSLPEQEIKTLEEDEEELFKMRAKLFRFASENDLPEWKERGTGDVKLLKHKEKGAIRLLMRRDKTLKICANHYITPMMELKPNAGSDRAWVWNTHADFADECPKPELLAIRFLNAENAQKFKTKFEECRKEIEEREKKAGSGKNDHAEKVAEKLEALSVKEETKEDAEEKQ |
| 3761 | sp|O60671|RAD1\_HUMAN | MPLLTQQIQDEDDQYSLVASLDNVRNLSTILKAIHFREHATCFATKNGIKVTVENAKCVQANAFIQAGIFQEFKVQEESVTFRINLTVLLDCLSIFGSSPMPGTLTALRMCYQGYGYPLMLFLEEGGVVTVCKINTQEPEETLDFDFCSTNVINKIILQSEGLREAFSELDMTSEVLQITMSPDKPYFRLSTFGNAGSSHLDYPKDSDLMEAFHCNQTQVNRYKISLLKPSTKALVLSCKVSIRTDNRGFLSLQYMIRNEDGQICFVEYYCCPDEEVPESES |
| 3762 | sp|P26306|RAD9\_SCHPO | MEFTVSNVNLRDLARIFTNLSRIDDAVNWEINKNQIEITCLNSSRSGFSMVTLKKAFFDKYIFQPDSVLLTGLMTPTIRIRTQVKPILSVFRNKIFDFIPTVVTTNSKNGYGSESASRKDVIVENVQISISTGSECRIIFKFLCKHGVIKTYKISYEQTQTLHAVFDKSLSHNNFQINSKILKDLTEHFGQRTEELTIQPLQERVLLTSFTEEVVHNRDILKQPTQTTVSIDGKEFERVALNEGVSVTLSLREFRAAVILAEALGSSICAYYGVPGKPILLTFAKGKNSEIEAQFILATVVGSDEQEVSSMMGNRWQHSSTPASLFNSVERNNSLTAVAHNPPGSIGWQTDQSDSSRMFNSALDRSDETNGIKEPSTTNDAGQSLFLDGIPNESELAAFNNDVNDDAEFGPTQAEQSYHGIFSQED |
| 3763 | sp|Q9H0N0|RAB6C\_HUMAN | MSAGGDFGNPLRKFKLVFLGEQSVAKTSLITRFRYDSFDNTYQAIIGIDFLSKTMYLEDGTIGLRLWDTAGQERLRSLIPRYIRDSAAAVVVYDITNVNSFQQTTKWIDDVRTERGSDVIITLVGNRTDLADKRQVSVEEGERKAKGLNVTFIETRAKAGYNVKQLFRRVAAALPGMESTQDGSREDMSDIKLEKPQEQTVSEGGCSCYSPMSSSTLPQKPPYSFIDCSVNIGLNLFPSLITFCNSSLLPVSWR |
| 3764 | sp|P33919|RADD\_ECOLI | MIFTLRPYQQEAVDATLNHFRRHKTPAVIVLPTGAGKSLVIAELARLARGRVLVLAHVKELVAQNHAKYQALGLEADIFAAGLKRKESHGKVVFGSVQSVARNLDAFQGEFSLLIVDECHRIGDDEESQYQQILTHLTKVNPHLRLLGLTATPFRLGKGWIYQFHYHGMVRGDEKALFRDCIYELPLRYMIKHGYLTPPERLDMPVVQYDFSRLQAQSNGLFSEADLNRELKKQQRITPHIISQIMEFAATRKGVMIFAATVEHAKEIVGLLPAEDAALITGDTPGAERDVLIENFKAQRFRYLVNVAVLTTGFDAPHVDLIAILRPTESVSLYQQIVGRGLRLAPGKTDCLILDYAGNPHDLYAPEVGTPKGKSDNVPVQVFCPACGFANTFWGKTTADGTLIEHFGRRCQGWFEDDDGHREQCDFRFRFKNCPQCNAENDIAARRCRECDTVLVDPDDMLKAALRLKDALVLRCSGMSLQHGHDEKGEWLKITYYDEDGADVSERFRLQTPAQRTAFEQLFIRPHTRTPGIPLRWITAADILAQQALLRHPDFVVARMKGQYWQVREKVFDYEGRFRLAHELRG |
| 3765 | sp|P00489|PYGM\_RABIT | MSRPLSDQEKRKQISVRGLAGVENVTELKKNFNRHLHFTLVKDRNVATPRDYYFALAHTVRDHLVGRWIRTQQHYYEKDPKRIYYLSLEFYMGRTLQNTMVNLALENACDEATYQLGLDMEELEEIEEDAGLGNGGLGRLAACFLDSMATLGLAAYGYGIRYEFGIFNQKICGGWQMEEADDWLRYGNPWEKARPEFTLPVHFYGRVEHTSQGAKWVDTQVVLAMPYDTPVPGYRNNVVNTMRLWSAKAPNDFNLKDFNVGGYIQAVLDRNLAENISRVLYPNDNFFEGKELRLKQEYFVVAATLQDIIRRFKSSKFGCRDPVRTNFDAFPDKVAIQLNDTHPSLAIPELMRVLVDLERLDWDKAWEVTVKTCAYTNHTVLPEALERWPVHLLETLLPRHLQIIYEINQRFLNRVAAAFPGDVDRLRRMSLVEEGAVKRINMAHLCIAGSHAVNGVARIHSEILKKTIFKDFYELEPHKFQNKTNGITPRRWLVLCNPGLAEIIAERIGEEYISDLDQLRKLLSYVDDEAFIRDVAKVKQENKLKFAAYLEREYKVHINPNSLFDVQVKRIHEYKRQLLNCLHVITLYNRIKKEPNKFVVPRTVMIGGKAAPGYHMAKMIIKLITAIGDVVNHDPVVGDRLRVIFLENYRVSLAEKVIPAADLSEQISTAGTEASGTGNMKFMLNGALTIGTMDGANVEMAEEAGEENFFIFGMRVEDVDRLDQRGYNAQEYYDRIPELRQIIEQLSSGFFSPKQPDLFKDIVNMLMHHDRFKVFADYEEYVKCQERVSALYKNPREWTRMVIRNIATSGKFSSDRTIAQYAREIWGVEPSRQRLPAPDEKIP |
| 3766 | sp|Q13127|REST\_HUMAN | MATQVMGQSSGGGGLFTSSGNIGMALPNDMYDLHDLSKAELAAPQLIMLANVALTGEVNGSCCDYLVGEERQMAELMPVGDNNFSDSEEGEGLEESADIKGEPHGLENMELRSLELSVVEPQPVFEASGAPDIYSSNKDLPPETPGAEDKGKSSKTKPFRCKPCQYEAESEEQFVHHIRVHSAKKFFVEESAEKQAKARESGSSTAEEGDFSKGPIRCDRCGYNTNRYDHYTAHLKHHTRAGDNERVYKCIICTYTTVSEYHWRKHLRNHFPRKVYTCGKCNYFSDRKNNYVQHVRTHTGERPYKCELCPYSSSQKTHLTRHMRTHSGEKPFKCDQCSYVASNQHEVTRHARQVHNGPKPLNCPHCDYKTADRSNFKKHVELHVNPRQFNCPVCDYAASKKCNLQYHFKSKHPTCPNKTMDVSKVKLKKTKKREADLPDNITNEKTEIEQTKIKGDVAGKKNEKSVKAEKRDVSKEKKPSNNVSVIQVTTRTRKSVTEVKEMDVHTGSNSEKFSKTKKSKRKLEVDSHSLHGPVNDEESSTKKKKKVESKSKNNSQEVPKGDSKVEENKKQNTCMKKSTKKKTLKNKSSKKSSKPPQKEPVEKGSAQMDPPQMGPAPTEAVQKGPVQVEPPPPMEHAQMEGAQIRPAPDEPVQMEVVQEGPAQKELLPPVEPAQMVGAQIVLAHMELPPPMETAQTEVAQMGPAPMEPAQMEVAQVESAPMQVVQKEPVQMELSPPMEVVQKEPVQIELSPPMEVVQKEPVKIELSPPIEVVQKEPVQMELSPPMGVVQKEPAQREPPPPREPPLHMEPISKKPPLRKDKKEKSNMQSERARKEQVLIEVGLVPVKDSWLLKESVSTEDLSPPSPPLPKENLREEASGDQKLLNTGEGNKEAPLQKVGAEEADESLPGLAANINESTHISSSGQNLNTPEGETLNGKHQTDSIVCEMKMDTDQNTRENLTGINSTVEEPVSPMLPPSAVEEREAVSKTALASPPATMAANESQEIDEDEGIHSHEGSDLSDNMSEGSDDSGLHGARPVPQESSRKNAKEALAVKAAKGDFVCIFCDRSFRKGKDYSKHLNRHLVNVYYLEEAAQGQE |
| 3767 | sp|P10745|RET3\_HUMAN | MMREWVLLMSVLLCGLAGPTHLFQPSLVLDMAKVLLDNYCFPENLLGMQEAIQQAIKSHEILSISDPQTLASVLTAGVQSSLNDPRLVISYEPSTPEPPPQVPALTSLSEEELLAWLQRGLRHEVLEGNVGYLRVDSVPGQEVLSMMGEFLVAHVWGNLMGTSALVLDLRHCTGGQVSGIPYIISYLHPGNTILHVDTIYNRPSNTTTEIWTLPQVLGERYGADKDVVVLTSSQTRGVAEDIAHILKQMRRAIVVGERTGGGALDLRKLRIGESDFFFTVPVSRSLGPLGGGSQTWEGSGVLPCVGTPAEQALEKALAILTLRSALPGVVHCLQEVLKDYYTLVDRVPTLLQHLASMDFSTVVSEEDLVTKLNAGLQAASEDPRLLVRAIGPTETPSWPAPDAAAEDSPGVAPELPEDEAIRQALVDSVFQVSVLPGNVGYLRFDSFADASVLGVLAPYVLRQVWEPLQDTEHLIMDLRHNPGGPSSAVPLLLSYFQGPEAGPVHLFTTYDRRTNITQEHFSHMELPGPRYSTQRGVYLLTSHRTATAAEEFAFLMQSLGWATLVGEITAGNLLHTRTVPLLDTPEGSLALTVPVLTFIDNHGEAWLGGGVVPDAIVLAEEALDKAQEVLEFHQSLGALVEGTGHLLEAHYARPEVVGQTSALLRAKLAQGAYRTAVDLESLASQLTADLQEVSGDHRLLVFHSPGELVVEEAPPPPPAVPSPEELTYLIEALFKTEVLPGQLGYLRFDAMAELETVKAVGPQLVRLVWQQLVDTAALVIDLRYNPGSYSTAIPLLCSYFFEAEPRQHLYSVFDRATSKVTEVWTLPQVAGQRYGSHKDLYILMSHTSGSAAEAFAHTMQDLQRATVIGEPTAGGALSVGIYQVGSSPLYASMPTQMAMSATTGKAWDLAGVEPDITVPMSEALSIAQDIVALRAKVPTVLQTAGKLVADNYASAELGAKMATKLSGLQSRYSRVTSEVALAEILGADLQMLSGDPHLKAAHIPENAKDRIPGIVPMQIPSPEVFEELIKFSFHTNVLEDNIGYLRFDMFGDGELLTQVSRLLVEHIWKKIMHTDAMIIDMRFNIGGPTSSIPILCSYFFDEGPPVLLDKIYSRPDDSVSELWTHAQVVGERYGSKKSMVILTSSVTAGTAEEFTYIMKRLGRALVIGEVTSGGCQPPQTYHVDDTNLYLTIPTARSVGASDGSSWEGVGVTPHVVVPAEEALARAKEMLQHNQLRVKRSPGLQDHL |
| 3768 | sp|P04993|RECD\_ECOLI | MKLQKQLLEAVEHKQLRPLDVQFALTVAGDEHPAVTLAAALLSHDAGEGHVCLPLSRLENNEASHPLLATCVSEIGELQNWEECLLASQAVSRGDEPTPMILCGDRLYLNRMWCNERTVARFFNEVNHAIEVDEALLAQTLDKLFPVSDEINWQKVAAAVALTRRISVISGGPGTGKTTTVAKLLAALIQMADGERCRIRLAAPTGKAAARLTESLGKALRQLPLTDEQKKRIPEDASTLHRLLGAQPGSQRLRHHAGNPLHLDVLVVDEASMIDLPMMSRLIDALPDHARVIFLGDRDQLASVEAGAVLGDICAYANAGFTAERARQLSRLTGTHVPAGTGTEAASLRDSLCLLQKSYRFGSDSGIGQLAAAINRGDKTAVKTVFQQDFTDIEKRLLQSGEDYIAMLEEALAGYGRYLDLLQARAEPDLIIQAFNEYQLLCALREGPFGVAGLNERIEQFMQQKRKIHRHPHSRWYEGRPVMIARNDSALGLFNGDIGIALDRGQGTRVWFAMPDGNIKSVQPSRLPEHETTWAMTVHKSQGSEFDHAALILPSQRTPVVTRELVYTAVTRARRRLSLYADERILSAAIATRTERRSGLAALFSSRE |
| 3769 | sp|P61271|RAB5A\_MACFA | MANRGATRPNGPNTGNKICQFKLVLLGESAVGKSSLVLRFVKGQFHEFQESTIGAAFLTQTVCLDDTTVKFEIWDTAGQERYHSLAPMYYRGAQAAIVVYDITNEESFARAKNWVKELQRQASPNIVIALSGNKADLANKRAVDFQEAQSYADDNSLLFMETSAKTSMNVNEIFMAIAKKLPKNEPQNPGANSARGRGVDLTEPTQPTRSQCCSN |
| 3770 | sp|Q63942|RAB3D\_RAT | MASASEPPASPRDAADQNFDYMFKLLLIGNSSVGKTSFLFRYADDSFTPAFVSTVGIDFKVKTVYRHDKRIKLQIWDTAGQERYRTITTAYYRGAMGFLLMYDIANQESFTAVQDWATQIKTYSWDNAQVILVGNKCDLEDERVVSAEDGQRLAGDLGFEFFEASAKENINVKQVFERLVDIICDKMNESLEPSSSPGSNGKGPALGDTPPPQPSSCGC |
| 3771 | sp|P08424|RENI\_RAT | MGGRRMPLWALLLLWTSCSFSLPTDTASFGRILLKKMPSVREILEERGVDMTRISAEWGEFIKKSSFTNVTSPVVLTNYLDTQYYGEIGIGTPSQTFKVIFDTGSANLWVPSTKCGPLYTACEIHNLYDSSESSSYMENGTEFTIHYGSGKVKGFLSQDVVTVGGIIVTQTFGEVTELPLIPFMLAKFDGVLGMGFPAQAVDGVIPVFDHILSQRVLKEEVFSVYYSRESHLLGGEVVLGGSDPQHYQGNFHYVSISKAGSWQITMKGVSVGPATLLCEEGCMAVVDTGTSYISGPTSSLQLIMQALGVKEKRANNYVVNCSQVPTLPDISFYLGGRTYTLSNMDYVQKNPFRNDDLCILALQGLDIPPPTGPVWVLGATFIRKFYTEFDRHNNRIGFALAR |
| 3772 | sp|Q9HAU5|RENT2\_HUMAN | MPAERKKPASMEEKDSLPNNKEKDCSERRTVSSKERPKDDIKLTAKKEVSKAPEDKKKRLEDDKRKKEDKERKKKDEEKVKAEEESKKKEEEEKKKHQEEERKKQEEQAKRQQEEEAAAQMKEKEESIQLHQEAWERHHLRKELRSKNQNAPDSRPEENFFSRLDSSLKKNTAFVKKLKTITEQQRDSLSHDFNGLNLSKYIAEAVASIVEAKLKISDVNCAVHLCSLFHQRYADFAPSLLQVWKKHFEARKEEKTPNITKLRTDLRFIAELTIVGIFTDKEGLSLIYEQLKNIINADRESHTHVSVVISFCRHCGDDIAGLVPRKVKSAAEKFNLSFPPSEIISPEKQQPFQNLLKEYFTSLTKHLKRDHRELQNTERQNRRILHSKGELSEDRHKQYEEFAMSYQKLLANSQSLADLLDENMPDLPQDKPTPEEHGPGIDIFTPGKPGEYDLEGGIWEDEDARNFYENLIDLKAFVPAILFKDNEKSCQNKESNKDDTKEAKESKENKEVSSPDDLELELENLEINDDTLELEGGDEAEDLTKKLLDEQEQEDEEASTGSHLKLIVDAFLQQLPNCVNRDLIDKAAMDFCMNMNTKANRKKLVRALFIVPRQRLDLLPFYARLVATLHPCMSDVAEDLCSMLRGDFRFHVRKKDQINIETKNKTVRFIGELTKFKMFTKNDTLHCLKMLLSDFSHHHIEMACTLLETCGRFLFRSPESHLRTSVLLEQMMRKKQAMHLDARYVTMVENAYYYCNPPPAEKTVKKKRPPLQEYVRKLLYKDLSKVTTEKVLRQMRKLPWQDQEVKDYVICCMINIWNVKYNSIHCVANLLAGLVLYQEDVGIHVVDGVLEDIRLGMEVNQPKFNQRRISSAKFLGELYNYRMVESAVIFRTLYSFTSFGVNPDGSPSSLDPPEHLFRIRLVCTILDTCGQYFDRGSSKRKLDCFLVYFQRYVWWKKSLEVWTKDHPFPIDIDYMISDTLELLRPKIKLCNSLEESIRQVQDLEREFLIKLGLVNDKDSKDSMTEGENLEEDEEEEEGGAETEEQSGNESEVNEPEEEEGSDNDDDEGEEEEEENTDYLTDSNKENETDEENTEVMIKGGGLKHVPCVEDEDFIQALDKMMLENLQQRSGESVKVHQLDVAIPLHLKSQLRKGPPLGGGEGEAESADTMPFVMLTRKGNKQQFKILNVPMSSQLAANHWNQQQAEQEERMRMKKLTLDINERQEQEDYQEMLQSLAQRPAPANTNRERRPRYQHPKGAPNADLIFKTGGRRR |
| 3773 | sp|Q96LZ7|RMD2\_HUMAN | MPYSTNKELILGIMVGTAGISLLLLWYHKVRKPGIAMKLPEFLSLGNTFNSITLQDEIHDDQGTTVIFQERQLQILEKLNELLTNMEELKEEIRFLKEAIPKLEEYIQDELGGKITVHKISPQHRARKRRLPTIQSSATSNSSEEAESEGGYITANTDTEEQSFPVPKAFNTRVEELNLDVLLQKVDHLRMSESGKSESFELLRDHKEKFRDEIEFMWRFARAYGDMYELSTNTQEKKHYANIGKTLSERAINRAPMNGHCHLWYAVLCGYVSEFEGLQNKINYGHLFKEHLDIAIKLLPEEPFLYYLKGRYCYTVSKLSWIEKKMAATLFGKIPSSTVQEALHNFLKAEELCPGYSNPNYMYLAKCYTDLEENQNALKFCNLALLLPTVTKEDKEAQKEMQKIMTSLKR |
| 3774 | sp|Q93Z16|RPN2\_ARATH | MMAGGNVRFLVLILAVAICGAASVFQPISDSHRSAALDVFVPVDGSYKSLEEAYEALKTLEILGIDKKSDLSSKTCENVVKVLQSSSSTLKDAFYALNVNGILKCKIGEAGPKDIVSQLQAGVKDAKLLLDFYYSVRGLVLAKEQFPGTHISLGDAEAIFRSIKSLSQSDGRWRYSSNNPESSTFAAGLAYETLAGVISLAPSEFDPSLIQSVKTGILKLSDSIQKYDDGTFYFDEKSVDASQGPISTTASVIRGLTSFAASESTGLNLPGDKIVGLAKFFLGVGIPGDAKDFFNQIDALACLEDNKFSVPLILSLPSTVISLTKKEPLKVKVSTVLGSKAPALSVKLTQALSSKSVDSSVINNQELKFDADSATYFLDSFPKNFDIGKYTFVFKIVLDESAHEKVYITEAQTKVPIAATGAISIENAEIAVLDSDIGSVESQKKLDLTKDGAVSLSANHLQKLRLSFQLTTPLGNAFKPHQAFFKLKHESQVEHIFLVKTSGKKSELVLDFLGLVEKLYYLSGKYEIQLTIGDASMENSLLSNIGHIELDLPERPEKATRPPLQSTEPYSRYGPKAEISHIFRIPEKLPAKQLSLVFLGVIVLPFIGFLIGLTRLGVNIKSFPSSTGSAISALLFHCGIGAVLLLYVLFWLKLDLFTTLKALSLLGVFLLFVGHRTLSQLASASNKLKSA |
| 3775 | sp|Q7YRV4|RO52\_BOVIN | MASAVPLTMMWEEVTCSICLDPMVEPMSIECGHSFCQECISEVGKEGGSVCPVCRRHFLLQNLRPNRQVANMVDNLRKISQGAKESPHGELCVVHREKIHLFCEEDGKALCWVCSQSQKHRDHPMVPIEEAAQEYQEKLQVALNKLRHKQELAEKLELDIAMKKASWKGKVEAHKLRIHEEFVRQKNFLAEEEQKQLQKLEEEERQQLRTLGDTEARLAQQIQALQELIAELERRRRGSALELLQEVKSVLERSESWNLKELDVASTDLRNVFYVPGIKKMLRTCGVHITLDPQTANPWLILSENRRQVRLANTRQEVPENEERFDSYPMVLGAQRFDSGKVYWEVDVTGKEAWDLGVCRDNVRRKGQFLLNSDTGFWIIWLWNKQKYEAGTCPQTPLHLQVPPNRIGIFLDYEASTVSFYNITDHASLIYTFSECAFAGPLRPFFNPGFNDRGTNSAPLILCPLKTGW |
| 3776 | sp|Q45493|RNJ1\_BACSU | MKFVKNDQTAVFALGGLGEIGKNTYAVQFQDEIVLIDAGIKFPEDELLGIDYVIPDYTYLVKNEDKIKGLFITHGHEDHIGGIPYLLRQVNIPVYGGKLAIGLLRNKLEEHGLLRQTKLNIIGEDDIVKFRKTAVSFFRTTHSIPDSYGIVVKTPPGNIVHTGDFKFDFTPVGEPANLTKMAEIGKEGVLCLLSDSTNSENPEFTMSERRVGESIHDIFRKVDGRIIFATFASNIHRLQQVIEAAVQNGRKVAVFGRSMESAIEIGQTLGYINCPKNTFIEHNEINRMPANKVTILCTGSQGEPMAALSRIANGTHRQISINPGDTVVFSSSPIPGNTISVSRTINQLYRAGAEVIHGPLNDIHTSGHGGQEEQKLMLRLIKPKFFMPIHGEYRMQKMHVKLATDCGIPEENCFIMDNGEVLALKGDEASVAGKIPSGSVYIDGSGIGDIGNIVLRDRRILSEEGLVIVVVSIDMDDFKISAGPDLISRGFVYMRESGDLINDAQELISNHLQKVMERKTTQWSEIKNEITDTLAPFLYEKTKRRPMILPIIMEV |
| 3777 | sp|Q803C1|RNF8\_DANRE | MEKTEEPPSSNNEEDSPAKEKIWCLQRVGRDSDWLRLFEDSEVSVGRGLNVTHQILSSSCPLMISRIHCVFKLNEGRQWTVTDNKSLNGVWVNGKRIPPSTPCILHQSDSVRLGVPLDGNPVEFDYILVQKNFDDVKSFLSGNLGKDSGAASLSQKLKNSKRKFDGGDESEPCPTQHSKSKLYRSSAPDKSRAQPCPSGERRETLKLSSRPLEEDRDKAGSSSSTCSDSSQHLATLHRYNRSLMVLKGRVGDTQKRAAELEQQQTQTPEREKEMQDLQTQLEALRGQLRSQQEQALRRMETLEKSFCEEERRLETEKAQQNEVGLKKQLEEALKEHRKVIEELKHAWQGFKEVLQAKDKELEVTKEEKEKAKAQKEEVVTQMTEVLESELQCSICSELFIEAVTLNCAHSFCQHCISEWRNRKDKCPMCWQNITSQTRSLVLDNCIDRMVENLSADMRERRLVLINERKGERSKSESISSSGGNK |
| 3778 | sp|Q6P5S7|RNK\_HUMAN | MGWLRPGPRPLCPPARASWAFSHRFPSPLAPRRSPTPFFMASLLCCGPKLAACGIVLSAWGVIMLIMLGIFFNVHSAVLIEDVPFTEKDFENGPQNIYNLYEQVSYNCFIAAGLYLLLGGFSFCQVRLNKRKEYMVR |
| 3779 | sp|Q9SAU2|RPE\_ARATH | MSTSAASLCCSSTQVNGFGLRPERSLLYQPTSFSFSRRRTHGIVKASSRVDRFSKSDIIVSPSILSANFAKLGEQVKAVELAGCDWIHVDVMDGRFVPNITIGPLVVDALRPVTDLPLDVHLMIVEPEQRVPDFIKAGADIVSVHCEQQSTIHLHRTVNQIKSLGAKAGVVLNPGTPLSAIEYVLDMVDLVLIMSVNPGFGGQSFIESQVKKISDLRKMCAEKGVNPWIEVDGGVTPANAYKVIEAGANALVAGSAVFGAKDYAEAIKGIKASKRPAAVAV |
| 3780 | sp|Q9XGM3|RPS4\_ARATH | METSSISTVEDKPPQHQVFINFRGADLRRRFVSHLVTALKLNNINVFIDDYEDRGQPLDVLLKRIEESKIVLAIFSGNYTESVWCVRELEKIKDCTDEGTLVAIPIFYKLEPSTVRDLKGKFGDRFRSMAKGDERKKKWKEAFNLIPNIMGIIIDKKSVESEKVNEIVKAVKTALTGIPPEGSHNAVVGALGNSNAGTSSGDKKHETFGNEQRLKDLEEKLDRDKYKGTRIIGVVGMPGIGKTTLLKELYKTWQGKFSRHALIDQIRVKSKHLELDRLPQMLLGELSKLNHPHVDNLKDPYSQLHERKVLVVLDDVSKREQIDALREILDWIKEGKEGSRVVIATSDMSLTNGLVDDTYMVQNLNHRDSLQLFHYHAFIDDQANPQKKDFMKLSEGFVHYARGHPLALKVLGGELNKKSMDHWNSKMKKLAQSPSPNIVSVFQVSYDELTTAQKDAFLDIACFRSQDKDYVESLLASSDLGSAEAMSAVKSLTDKFLINTCDGRVEMHDLLYKFSREVDLKASNQDGSRQRRLWLHQHIIKGGIINVLQNKMKAANVRGIFLDLSEVEDETSLDRDHFINMGNLRYLKFYNSHCPQECKTNNKINIPDKLKLPLKEVRCLHWLKFPLETLPNDFNPINLVDLKLPYSEMEQLWEGDKDTPCLRWVDLNHSSKLCSLSGLSKAEKLQRLNLEGCTTLKAFPHDMKKMKMLAFLNLKGCTSLESLPEMNLISLKTLTLSGCSTFKEFPLISDNIETLYLDGTAISQLPMNMEKLQRLVVLNMKDCKMLEEIPGRVGELKALQELILSDCLNLKIFPEIDISFLNILLLDGTAIEVMPQLPSVQYLCLSRNAKISCLPVGISQLSQLKWLDLKYCTSLTSVPEFPPNLQCLDAHGCSSLKTVSKPLARIMPTEQNHSTFIFTNCENLEQAAKEEITSYAQRKCQLLSYARKRYNGGLVSESLFSTCFPGCEVPSWFCHETVGSELEVKLLPHWHDKKLAGIALCAVVSCLDPQDQVSRLSVTCTFKVKDEDKSWVAYTCPVGSWTRHGGGKDKIELDHVFIGYTSCPHTIKCHEEGNSDECNPTEASLKFTVTGGTSENGKYKVLKCGLSLVYAKDKDKNSALETKYDMLIGKSFQETSEGVDGRVKKTKGKYVMPVEKNFQETTEGVDGRVNKKKKTRMDNGRPKKKQRSGRDDNQTRMQVELQEGNINSVIMHTVKNF |
| 3781 | sp|Q9FMF5|RPT3\_ARATH | MMWESESDGGVGVGGGGGREYGDGVLSSNKHGGVKTDGFELRGQSWFVATDIPSDLLVKIGDMNFHLHKYPLLSRSGKMNRLIYESRDPDPTILILDDLPGGPEAFELASKFCYGVPVDLTATNISGLRCAAEYLEMTEDLEEGNLIFKTEAFLSYVVLSSWRDSILVLKSCEKLSPWAENLQIVRRCSESIAWKACSNPKGIRWAYTGKAPSPSTTNFAGSSPRWNESKDSSFYCSPSRNTNSQPVPPDWWFEDVSILRIDHFVRVITAIKVKGMRFELLGAVIMHYAGKWLPGLIKEGGVAIAPAMSSAIGGGLGLGGDEMSISCGSNSSGGSSGPDWKGGLHMVLSAGKTNGHQDSVACLAGLGISPKDQRMIVESLISIIPPQKDSVTCSFLLRLLRAANMLKVAPALITELEKRVGMQFEQATLQDLLIPGYNNKGETMYDVDLVQRLLEHFLVQEQTEGSSPSRMSPSPSQSMYADIPRGNNNNGGGGGGNNQNAKMRVARLVDSYLTEVARDRNLPLTKFQVLAEALPESARTCDDGLYRAIDSYLKAHPTLSEHERKRLCRVMDCQKLSMDACMHAAQNERLPLRVVVQVLFSEQVKISNALANTSLKESTTLGEAMGTYQPMIPNRKTLIEATPQSFQEGWAAAKKDINTLKFELETVKTKYVELQNEMEVMQRQFEKTGKVKNTPSSSAWTSGWKKLSKLTKMSGQESHDISSGGEQAGVDHPPPRKPRRWRNSIS |
| 3782 | sp|K4REZ6|ROSB\_STRDJ | MALKALILNTTLRRSPSRSQTQGLIDKAVPLYEKEGIETEVVRVIDHDIEQEYWDDYDDWNAGEKARREDEWPWLLEKIREADILVIATPITLNMCTSAAHVILEKLNLMDELNGDTKQFPLYNKVAGLLMCGNEDGAHHVAGTVLNNLGRLGYSVPPNAAAYWLGPAGTGPGYIEGKGDRHFHTNKLIRFMVANTSHLARMLQETPYTTDLEACAQAAREESDDVFAIRVNVNTPAIRYKRFQKLGEVKVEESQLG |
| 3783 | sp|P51448|RORA\_MOUSE | MESAPAAPDPAASEPGSSGSEAAAGSRETPLTQDTGRKSEAPGAGRRQSYASSSRGISVTKKTHTSQIEIIPCKICGDKSSGIHYGVITCEGCKGFFRRSQQSNATYSCPRQKNCLIDRTSRNRCQHCRLQKCLAVGMSRDAVKFGRMSKKQRDSLYAEVQKHRMQQQQRDHQQQPGEAEPLTPTYNISANGLTELHDDLSTYMDGHTPEGSKADSAVSSFYLDIQPSPDQSGLDINGIKPEPICDYTPASGFFPYCSFTNGETSPTVSMAELEHLAQNISKSHLETCQYLREELQQITWQTFLQEEIENYQNKQREVMWQLCAIKITEAIQYVVEFAKRIDGFMELCQNDQIVLLKAGSLEVVFIRMCRAFDSQNNTVYFDGKYASPDVFKSLGCEDFISFVFEFGKSLCSMHLTEDEIALFSAFVLMSADRSWLQEKVKIEKLQQKIQLALQHVLQKNHREDGILTKLICKVSTLRALCGRHTEKLMAFKAIYPDIVRLHFPPLYKELFTSEFEPAMQIDG |
| 3784 | sp|Q8LEG1|RSL4\_ARATH | MDVFVDGELESLLGMFNFDQCSSSKEERPRDELLGLSSLYNGHLHQHQHHNNVLSSDHHAFLLPDMFPFGAMPGGNLPAMLDSWDQSHHLQETSSLKRKLLDVENLCKTNSNCDVTRQELAKSKKKQRVSSESNTVDESNTNWVDGQSLSNSSDDEKASVTSVKGKTRATKGTATDPQSLYARKRREKINERLKTLQNLVPNGTKVDISTMLEEAVHYVKFLQLQIKLLSSDDLWMYAPLAYNGLDMGFHHNLLSRLM |
| 3785 | sp|O82777|SBT3\_SOLLC | MELLHLLLFSWALSAHLFLALAQRSTYIVHLDKSLMPNVFTDHHHWHSSTIDSIKASVPSSVDRFHSAPKLVYSYDNVLHGFSAVLSKDELAALKKLPGFISAYKDRTVEPHTTHTSDFLKLNPSSGLWPASGLGQDVIVAVLDSGIWPESASFQDDGMPEIPKRWKGICKPGTQFNASMCNRKLIGANYFNKGILANDPTVNITMNSARDTDGHGTHCASITAGNFAKGVSHFGYAPGTARGVAPRARLAVYKFSFNEGTFTSDLIAAMDQAVADGVDMISISYGYRFIPLYEDAISIASFGAMMKGVLVSASAGNRGPGIGSLNNGSPWILCVASGHTDRTFAGTLTLGNGLKIRGWSLFPARAFVRDSPVIYNKTLSDCSSEELLSQVENPENTIVICDDNGDFSDQMRIITRARLKAAIFISEDPGVFRSATFPNPGVVVNKKEGKQVINYVKNSVTPTATITFQETYLDTKPAPVVAASSARGPSRSYLGISKPDILAPGVLILAAYPPNVFATSIGTNILLSTDYILESGTSMAAPHAAGIAAMLKAAHPEWSPSAIRSAMMTTADPLDNTRKPIKDSDNNKAATPLDMGAGHVDPNRALDPGLVYDATPQDYVNLLCSLNFTEEQFKTIARSSASHNCSNPSADLNYPSFIALYSIEGNFTLLEQKFKRTVTNVGKGAATYKAKLKAPKNSTISVSPQILVFKNKNEKQSYTLTIRYIGDEGQSRNVGSITWVEQNGNHSVRSPIVTSPIIEVW |
| 3786 | sp|Q695T7|S6A19\_HUMAN | MVRLVLPNPGLDARIPSLAELETIEQEEASSRPKWDNKAQYMLTCLGFCVGLGNVWRFPYLCQSHGGGAFMIPFLILLVLEGIPLLYLEFAIGQRLRRGSLGVWSSIHPALKGLGLASMLTSFMVGLYYNTIISWIMWYLFNSFQEPLPWSDCPLNENQTGYVDECARSSPVDYFWYRETLNISTSISDSGSIQWWMLLCLACAWSVLYMCTIRGIETTGKAVYITSTLPYVVLTIFLIRGLTLKGATNGIVFLFTPNVTELAQPDTWLDAGAQVFFSFSLAFGGLISFSSYNSVHNNCEKDSVIVSIINGFTSVYVAIVVYSVIGFRATQRYDDCFSTNILTLINGFDLPEGNVTQENFVDMQQRCNASDPAAYAQLVFQTCDINAFLSEAVEGTGLAFIVFTEAITKMPLSPLWSVLFFIMLFCLGLSSMFGNMEGVVVPLQDLRVIPPKWPKEVLTGLICLGTFLIGFIFTLNSGQYWLSLLDSYAGSIPLLIIAFCEMFSVVYVYGVDRFNKDIEFMIGHKPNIFWQVTWRVVSPLLMLIIFLFFFVVEVSQELTYSIWDPGYEEFPKSQKISYPNWVYVVVVIVAGVPSLTIPGYAIYKLIRNHCQKPGDHQGLVSTLSTASMNGDLKY |
| 3787 | sp|O88576|S6A18\_MOUSE | MAQASGMDPLVDIEDERPKWDNKLQYLLSCIGFAVGLGNIWRFPYLCQTHGGGAFLIPYFIALVFEGIPLFYIELAIGQRLRRGSIGVWKTISPYLGGVGLGCFSVSFLVSLYYNTVLLWVLWFFLNSFQHPLPWSTCPLDLNRTGFVQECQSSGTVSYFWYRQTLNITSDISNTGTIQWKLFLCLVACWSTVYLCVIRGIESTGKVIYFTALFPYLVLTIFLIRGLTLPGATEGLIYLFTPNMKTLQNPRVWLDAATQIFFSLSLAFGGHIAFASYNPPRNNCEKDAVIIALVNSMTSLYASIAIFSVMGFKASNDYGRCLDRNILSLINEFDLPELSISRDEYPSVLMYLNATQTARVAQLPLKTCHLEDFLDKSASGPGLAFIVFTEAVLHMPGASVWSVLFFGMLFTLGLSSMFGNMEGVITPLLDMGILPKGIPKEVMTGVICFACFLSAICFTLQSGGYWLEIFDSFAASLNLIIFAFMEVVGVIHIYGMKRFCDDIEWMTGRRPGLYWQVTWRVVSPMLLFGIFLSYIVLLIQTPPSYKAWNPQYEHFPSREEKFYPGWVQVTCVLLSFLPSLWVPGVALAQLLSQYKQRWKATHLESGLKLQESRGC |
| 3788 | sp|Q9Y265|RUVB1\_HUMAN | MKIEEVKSTTKTQRIASHSHVKGLGLDESGLAKQAASGLVGQENAREACGVIVELIKSKKMAGRAVLLAGPPGTGKTALALAIAQELGSKVPFCPMVGSEVYSTEIKKTEVLMENFRRAIGLRIKETKEVYEGEVTELTPCETENPMGGYGKTISHVIIGLKTAKGTKQLKLDPSIFESLQKERVEAGDVIYIEANSGAVKRQGRCDTYATEFDLEAEEYVPLPKGDVHKKKEIIQDVTLHDLDVANARPQGGQDILSMMGQLMKPKKTEITDKLRGEINKVVNKYIDQGIAELVPGVLFVDEVHMLDIECFTYLHRALESSIAPIVIFASNRGNCVIRGTEDITSPHGIPLDLLDRVMIIRTMLYTPQEMKQIIKIRAQTEGINISEEALNHLGEIGTKTTLRYSVQLLTPANLLAKINGKDSIEKEHVEEISELFYDAKSSAKILADQQDKYMK |
| 3789 | sp|Q9BVN2|RUSC1\_HUMAN | MLSPQRALLCNLNHIHLQHVSLGLHLSRRPELQEGPLSTPPPPGDTGGKESRGPCSGTLVDANSNSPAVPCRCCQEHGPGLENRQDPSQEEEGAASPSDPGCSSSLSSCSDLSPDESPVSVYLRDLPGDEDAHPQPSIIPLEQGSPLASAGPGTCSPDSFCCSPDSCSGASSSPDPGLDSNCNALTTCQDVPSPGLEEEDERAEQDLPTSELLEADDGKIDAGKTEPSWKINPIWKIDTEKTKAEWKTTENNNTGWKNNGNVNSSWKSEPEKFDSGWKTNTRITDSGSKTDAGKIDGGWRSDVSEEPVPHRTITSFHELAQKRKRGPGLPLVPQAKKDRSDWLIVFSPDTELPPSGSPGGSSAPPREVTTFKELRSRSRAPAPPVPPRDPPVGWALVPPRPPPPPVPPRRKKNRPGLQPIAEGQSEEGRAVSPAAGEEAPAAKEPGAQAGLEVRSSWSFAGVPGAQRLWMAEAQSGTGQLQEQKKGLLIAVSVSVDKIISHFGAARNLVQKAQLGDSRLSPDVGHLVLTTLCPALHALVADGLKPFRKDLITGQRRSSPWSVVEASVKPGSSTRSLGTLYSQVSRLAPLSSSRSRFHAFILGLLNTKQLELWFSSLQEDAGLLSLLYLPTGFFSLARGGCPSLSTELLLLLQPLSVLTFHLDLLFEHHHHLPLGPPQAPAPPGPPPALQQTMQAMLHFGGRLAQSLRGTSKEAASDPSDSPNLPTPGSWWEQLTQASRVYASGGTEGFPLSRWAPGRHGTAAEEGAQERPLPTDEMAPGRGLWLGRLFGVPGGPAENENGALKSRRPSSWLPPTVSVLALVKRGAPPEMPSPQELEASAPRMVQTHRAVRALCDHTAARPDQLSFRRGEVLRVITTVDEDWLRCGRDGMEGLVPVGYTSLVL |
| 3790 | sp|Q9H4B6|SAV1\_HUMAN | MLSRKKTKNEVSKPAEVQGKYVKKETSPLLRNLMPSFIRHGPTIPRRTDICLPDSSPNAFSTSGDVVSRNQSFLRTPIQRTPHEIMRRESNRLSAPSYLARSLADVPREYGSSQSFVTEVSFAVENGDSGSRYYYSDNFFDGQRKRPLGDRAHEDYRYYEYNHDLFQRMPQNQGRHASGIGRVAATSLGNLTNHGSEDLPLPPGWSVDWTMRGRKYYIDHNTNTTHWSHPLEREGLPPGWERVESSEFGTYYVDHTNKKAQYRHPCAPSVPRYDQPPPVTYQPQQTERNQSLLVPANPYHTAEIPDWLQVYARAPVKYDHILKWELFQLADLDTYQGMLKLLFMKELEQIVKMYEAYRQALLTELENRKQRQQWYAQQHGKNF |
| 3791 | sp|Q9Z0E8|S22A5\_MOUSE | MRDYDEVTAFLGEWGPFQRLIFFLLSASIIPNGFNGMSIVFLAGTPEHRCLVPHTVNLSSAWRNHSIPLETKDGRQVPQKCRRYRLATIANFSELGLEPGRDVDLEQLEQESCLDGWEYDKDVFLSTIVTEWDLVCKDDWKAPLTTSLFFVGVLMGSFISGQLSDRFGRKNVLFLTMGMQTGFSFLQVFSVNFEMFTVLFVLVGMGQISNYVAAFVLGTEILSKSIRIIFATLGVCIFYAFGFMVLPLFAYFIRDWRMLLLALTVPGVLCGALWWFIPESPRWLISQGRIKEAEVIIRKAAKINGIVAPSTIFDPSELQDLNSTKPQLHHIYDLIRTRNIRVITIMSIILWLTISVGYFGLSLDTPNLHGDIYVNCFLLAAVEVPAYVLAWLLLQYLPRRYSISAALFLGGSVLLFMQLVPSELFYLSTALVMVGKFGITSAYSMVYVYTAELYPTVVRNMGVGVSSTASRLGSILSPYFVYLGAYDRFLPYILMGSLTILTAILTLFFPESFGVPLPDTIDQMLRVKGIKQWQIQSQTRMQKDGEESPTVLKSTAF |
| 3792 | sp|Q99584|S10AD\_HUMAN | MAAEPLTELEESIETVVTTFFTFARQEGRKDSLSVNEFKELVTQQLPHLLKDVGSLDEKMKSLDVNQDSELKFNEYWRLIGELAKEIRKKKDLKIRKK |
| 3793 | sp|P06703|S10A6\_HUMAN | MACPLDQAIGLLVAIFHKYSGREGDKHTLSKKELKELIQKELTIGSKLQDAEIARLMEDLDRNKDQEVNFQEYVTFLGALALIYNEALKG |
| 3794 | sp|Q96JW4|S41A2\_HUMAN | MTNSKGRSITDKTSGGPSSGGGFVDWTLRLNTIQSDKFLNLLLSMVPVIYQKNQEDRHKKANGIWQDGLSTAVQTFSNRSEQHMEYHSFSEQSFHANNGHASSSCSQKYDDYANYNYCDGRETSETTAMLQDEDISSDGDEDAIVEVTPKLPKESSGIMALQILVPFLLAGFGTVSAGMVLDIVQHWEVFRKVTEVFILVPALLGLKGNLEMTLASRLSTAVNIGKMDSPIEKWNLIIGNLALKQVQATVVGFLAAVAAIILGWIPEGKYYLDHSILLCSSSVATAFIASLLQGIIMVGVIVGSKKTGINPDNVATPIAASFGDLITLAILAWISQGLYSCLETYYYISPLVGVFFLALTPIWIIIAAKHPATRTVLHSGWEPVITAMVISSIGGLILDTTVSDPNLVGIVVYTPVINGIGGNLVAIQASRISTYLHLHSIPGELPDEPKGCYYPFRTFFGPGVNNKSAQVLLLLVIPGHLIFLYTIHLMKSGHTSLTIIFIVVYLFGAVLQVFTLLWIADWMVHHFWRKGKDPDSFSIPYLTALGDLLGTALLALSFHFLWLIGDRDGDVGD |
| 3795 | sp|Q96F10|SAT2\_HUMAN | MASVRIREAKEGDCGDILRLIRELAEFEKLSDQVKISEEALRADGFGDNPFYHCLVAEILPAPGKLLGPCVVGYGIYYFIYSTWKGRTIYLEDIYVMPEYRGQGIGSKIIKKVAEVALDKGCSQFRLAVLDWNQRAMDLYKALGAQDLTEAEGWHFFCFQGEATRKLAGK |
| 3796 | sp|Q12770|SCAP\_HUMAN | MTLTERLREKISRAFYNHGLLCASYPIPIILFTGFCILACCYPLLKLPLPGTGPVEFTTPVKDYSPPPVDSDRKQGEPTEQPEWYVGAPVAYVQQIFVKSSVFPWHKNLLAVDVFRSPLSRAFQLVEEIRNHVLRDSSGIRSLEELCLQVTDLLPGLRKLRNLLPEHGCLLLSPGNFWQNDWERFHADPDIIGTIHQHEPKTLQTSATLKDLLFGVPGKYSGVSLYTRKRMVSYTITLVFQHYHAKFLGSLRARLMLLHPSPNCSLRAESLVHVHFKEEIGVAELIPLVTTYIILFAYIYFSTRKIDMVKSKWGLALAAVVTVLSSLLMSVGLCTLFGLTPTLNGGEIFPYLVVVIGLENVLVLTKSVVSTPVDLEVKLRIAQGLSSESWSIMKNMATELGIILIGYFTLVPAIQEFCLFAVVGLVSDFFLQMLFFTTVLSIDIRRMELADLNKRLPPEACLPSAKPVGQPTRYERQLAVRPSTPHTITLQPSSFRNLRLPKRLRVVYFLARTRLAQRLIMAGTVVWIGILVYTDPAGLRNYLAAQVTEQSPLGEGALAPMPVPSGMLPPSHPDPAFSIFPPDAPKLPENQTSPGESPERGGPAEVVHDSPVPEVTWGPEDEELWRKLSFRHWPTLFSYYNITLAKRYISLLPVIPVTLRLNPREALEGRHPQDGRSAWPPPGPIPAGHWEAGPKGPGGVQAHGDVTLYKVAALGLATGIVLVLLLLCLYRVLCPRNYGQLGGGPGRRRRGELPCDDYGYAPPETEIVPLVLRGHLMDIECLASDGMLLVSCCLAGHVCVWDAQTGDCLTRIPRPGRQRRDSGVGSGLEAQESWERLSDGGKAGPEEPGDSPPLRHRPRGPPPPSLFGDQPDLTCLIDTNFSAQPRSSQPTQPEPRHRAVCGRSRDSPGYDFSCLVQRVYQEEGLAAVCTPALRPPSPGPVLSQAPEDEGGSPEKGSPSLAWAPSAEGSIWSLELQGNLIVVGRSSGRLEVWDAIEGVLCCSSEEVSSGITALVFLDKRIVAARLNGSLDFFSLETHTALSPLQFRGTPGRGSSPASPVYSSSDTVACHLTHTVPCAHQKPITALKAAAGRLVTGSQDHTLRVFRLEDSCCLFTLQGHSGAITTVYIDQTMVLASGGQDGAICLWDVLTGSRVSHVFAHRGDVTSLTCTTSCVISSGLDDLISIWDRSTGIKFYSIQQDLGCGASLGVISDNLLVTGGQGCVSFWDLNYGDLLQTVYLGKNSEAQPARQILVLDNAAIVCNFGSELSLVYVPSVLEKLD |
| 3797 | sp|Q9Y345|SC6A5\_HUMAN | MDCSAPKEMNKLPANSPEAAAAQGHPDGPCAPRTSPEQELPAAAAPPPPRVPRSASTGAQTFQSADARACEAERPGVGSCKLSSPRAQAASAALRDLREAQGAQASPPPGSSGPGNALHCKIPFLRGPEGDANVSVGKGTLERNNTPVVGWVNMSQSTVVLATDGITSVLPGSVATVATQEDEQGDENKARGNWSSKLDFILSMVGYAVGLGNVWRFPYLAFQNGGGAFLIPYLMMLALAGLPIFFLEVSLGQFASQGPVSVWKAIPALQGCGIAMLIISVLIAIYYNVIICYTLFYLFASFVSVLPWGSCNNPWNTPECKDKTKLLLDSCVISDHPKIQIKNSTFCMTAYPNVTMVNFTSQANKTFVSGSEEYFKYFVLKISAGIEYPGEIRWPLALCLFLAWVIVYASLAKGIKTSGKVVYFTATFPYVVLVILLIRGVTLPGAGAGIWYFITPKWEKLTDATVWKDAATQIFFSLSAAWGGLITLSSYNKFHNNCYRDTLIVTCTNSATSIFAGFVIFSVIGFMANERKVNIENVADQGPGIAFVVYPEALTRLPLSPFWAIIFFLMLLTLGLDTMFATIETIVTSISDEFPKYLRTHKPVFTLGCCICFFIMGFPMITQGGIYMFQLVDTYAASYALVIIAIFELVGISYVYGLQRFCEDIEMMIGFQPNIFWKVCWAFVTPTILTFILCFSFYQWEPMTYGSYRYPNWSMVLGWLMLACSVIWIPIMFVIKMHLAPGRFIERLKLVCSPQPDWGPFLAQHRGERYKNMIDPLGTSSLGLKLPVKDLELGTQC |
| 3798 | sp|O15304|SIVA\_HUMAN | MPKRSCPFADVAPLQLKVRVSQRELSRGVCAERYSQEVFEKTKRLLFLGAQAYLDHVWDEGCAVVHLPESPKPGPTGAPRAARGQMLIGPDGRLIRSLGQASEADPSGVASIACSSCVRAVDGKAVCGQCERALCGQCVRTCWGCGSVACTLCGLVDCSDMYEKVLCTSCAMFET |
| 3799 | sp|P23975|SC6A2\_HUMAN | MLLARMNPQVQPENNGADTGPEQPLRARKTAELLVVKERNGVQCLLAPRDGDAQPRETWGKKIDFLLSVVGFAVDLANVWRFPYLCYKNGGGAFLIPYTLFLIIAGMPLFYMELALGQYNREGAATVWKICPFFKGVGYAVILIALYVGFYYNVIIAWSLYYLFSSFTLNLPWTDCGHTWNSPNCTDPKLLNGSVLGNHTKYSKYKFTPAAEFYERGVLHLHESSGIHDIGLPQWQLLLCLMVVVIVLYFSLWKGVKTSGKVVWITATLPYFVLFVLLVHGVTLPGASNGINAYLHIDFYRLKEATVWIDAATQIFFSLGAGFGVLIAFASYNKFDNNCYRDALLTSSINCITSFVSGFAIFSILGYMAHEHKVNIEDVATEGAGLVFILYPEAISTLSGSTFWAVVFFVMLLALGLDSSMGGMEAVITGLADDFQVLKRHRKLFTFGVTFSTFLLALFCITKGGIYVLTLLDTFAAGTSILFAVLMEAIGVSWFYGVDRFSNDIQQMMGFRPGLYWRLCWKFVSPAFLLFVVVVSIINFKPLTYDDYIFPPWANWVGWGIALSSMVLVPIYVIYKFLSTQGSLWERLAYGITPENEHHLVAQRDIRQFQLQHWLAI |
| 3800 | sp|Q15047|SETB1\_HUMAN | MSSLPGCIGLDAATATVESEEIAELQQAVVEELGISMEELRHFIDEELEKMDCVQQRKKQLAELETWVIQKESEVAHVDQLFDDASRAVTNCESLVKDFYSKLGLQYRDSSSEDESSRPTEIIEIPDEDDDVLSIDSGDAGSRTPKDQKLREAMAALRKSAQDVQKFMDAVNKKSSSQDLHKGTLSQMSGELSKDGDLIVSMRILGKKRTKTWHKGTLIAIQTVGPGKKYKVKFDNKGKSLLSGNHIAYDYHPPADKLYVGSRVVAKYKDGNQVWLYAGIVAETPNVKNKLRFLIFFDDGYASYVTQSELYPICRPLKKTWEDIEDISCRDFIEEYVTAYPNRPMVLLKSGQLIKTEWEGTWWKSRVEEVDGSLVRILFLDDKRCEWIYRGSTRLEPMFSMKTSSASALEKKQGQLRTRPNMGAVRSKGPVVQYTQDLTGTGTQFKPVEPPQPTAPPAPPFPPAPPLSPQAGDSDLESQLAQSRKQVAKKSTSFRPGSVGSGHSSPTSPALSENVSGGKPGINQTYRSPLGSTASAPAPSALPAPPAPPVFHGMLERAPAEPSYRAPMEKLFYLPHVCSYTCLSRVRPMRNEQYRGKNPLLVPLLYDFRRMTARRRVNRKMGFHVIYKTPCGLCLRTMQEIERYLFETGCDFLFLEMFCLDPYVLVDRKFQPYKPFYYILDITYGKEDVPLSCVNEIDTTPPPQVAYSKERIPGKGVFINTGPEFLVGCDCKDGCRDKSKCACHQLTIQATACTPGGQINPNSGYQYKRLEECLPTGVYECNKRCKCDPNMCTNRLVQHGLQVRLQLFKTQNKGWGIRCLDDIAKGSFVCIYAGKILTDDFADKEGLEMGDEYFANLDHIESVENFKEGYESDAPCSSDSSGVDLKDQEDGNSGTEDPEESNDDSSDDNFCKDEDFSTSSVWRSYATRRQTRGQKENGLSETTSKDSHPPDLGPPHIPVPPSIPVGGCNPPSSEETPKNKVASWLSCNSVSEGGFADSDSHSSFKTNEGGEGRAGGSRMEAEKASTSGLGIKDEGDIKQAKKEDTDDRNKMSVVTESSRNYGYNPSPVKPEGLRRPPSKTSMHQSRRLMASAQSNPDDVLTLSSSTESEGESGTSRKPTAGQTSATAVDSDDIQTISSGSEGDDFEDKKNMTGPMKRQVAVKSTRGFALKSTHGIAIKSTNMASVDKGESAPVRKNTRQFYDGEESCYIIDAKLEGNLGRYLNHSCSPNLFVQNVFVDTHDLRFPWVAFFASKRIRAGTELTWDYNYEVGSVEGKELLCCCGAIECRGRLL |
| 3801 | sp|Q9QX74|SHAN2\_RAT | MKSLLNAFTKKEVPFREAPAYSNRRRRPPNTLAAPRVLLRSNSDNNLNAGAPEWAVCSAATSHRSLSPQLLQQTPSKPDGATKSLGSYAPGPRSRSPSLNRLGGAGEDGKRPQPPHWHVGSPFTPGANKDSLSTFEYPGPRRKLYSAVPGRLFVAIKPYQPQVDGEIPLHRGDRVKVLSIGEGGFWEGSARGHIGWFPAECVEEVQCKPRDSQAETRADRSKKLFRHYTVGSYDSFDAASDCIIEDKTVVLQKKDNEGFGFVLRGAKADTPIEEFTPTPAFPALQYLESVDEGGVAWQAGLRTGDFLIEVNNENVVKVGHRQVVNMIRQGGNHLVLKVVTVTRNLDPDDTARKKAPPPPKRAPTTALTLRSKSMTAELEELGLSLVDKASVRKKKDKPEEIVPASKPSRTAENVAIESRVATIKQRPTSRCFPAASDVNSVYERQGIAVMTPTVPGSPKGPFLGLPRGTMRRQKSIDSRIFLSGITEEERQFLAPPMLKFTRSLSMPDTSEDIPPPPQSVPPSPPPPSPTTYNCPRSPTPRVYGTIKPAFNQNPVAKVPPATRSDTVATMMREKGMFYRRELDRFSLDSEDVYSRSPAPQAAFRTKRGQMPENPYSEVGKIASKAVYVPAKPARRKGMLVKQSNVEDSPEKTCSIPIPTIIVKEPSTSSSGKSSQGSSMEIDPQATEPGQLRPDDSLTVSSPFAAAIAGAVRDREKRLEARRNSPAFLSTDLGDEDVGLGPPAPRMQPSKFPEEGGFGDEDETEQPLLPTPGAAPRELENHFLGGGEAGAQGEAGGPLSSTSKAKGPESGPAAALKSSSPASPENYVHPLTGRLLDPSSPLALALSARDRAMQESQQGHKGEAPKADLNKPLYIDTKMRPSVESGFPPVTRQNTRGPLRRQETENKYETDLSKDRRADDKKNMLINIVDTAQQKSAGLLMVHTVDIPVAGPPLEEEEDREDGDTKPDHSPSTVPEGVPKTEGALQISAAPEPAAAPGRTIVAAGSVEEAVILPFRIPPPPLASVDLDEDFLFTEPLPPPLEFANSFDIPDDRAASVPALADLVKQKKSDTPQPPSLNSSQPANSTDSKKPAGISNCLPSSFLPPPESFDAVTDSGIEEVDSRSSSDHHLETTSTISTVSSISTLSSEGGESMDTCTVYADGQAFVVDKPPVPPKPKMKPIVHKSNALYQDTLPEEDTDGFVIPPPAPPPPPGSAQAGVAKVIQPRTSKLWGDVTEVKSPILSGPKANVISELNSILQQMNRGKSVKPGEGLELPVGAKSANLAPRSPEVMSTVSGTRSTTVTFTVRPGTSQPITLQSRPPDYESRTSGPRRAPSPVVSPTELSKEILPTPPSAAAASPSPTLSDVFSLPSQSPAGDLFGLNPAGRSRSPSPSILQQPISNKPFTTKPVHLWTKPDVADWLESLNLGEHKETFMDNEIDGSHLPNLQKEDLIDLGVTRVGHRMNIERALKQLLDR |
| 3802 | sp|Q93WE4|SINA6\_ARATH | MEPRINDLQVESRVHELLDFPVHTNQISSAIYECPNDHIENPKKKPYNCPHSGAKCDVTGDIQRLLLHLRNDHNVEMSDGRSFSHRYVHHDPKHLHHATWMLTLLDCCGRKFCLYFEAFHLRKTPMYMAFMQFMGDEEEAMSFSYSLQVGGNGRKLTWQGVPRSIRDSHKTVRDSQDGLIITRKLALFFSTDNNTTDKELKLKVSGRVWREQPVSI |
| 3803 | sp|Q54RV9|SGPL\_DICDI | MDKANDYLKDYQPAKLVLATAGITAASILAYQAITDRDFKDKLNKKIFRSIKSMPGVSDIVKKERAKAKVELKKMFKTDVRNAHYTLPLKGIKHEDLIEEMKALAKVDESHWVDSKVSGCVYLGEKEHTKLLNEAYSLFSLSNPLHPSVFPSIRKFETESISMVSNMLNAHSKVVGSLTSGGTESIFMAVKAYRDFYKDRTDRPEIVVPVTIHAAFDKACEYLKIRIVHIDVDPVSYKVDMAAMKKAINKDTILVAGSAVNFPHGIIDPIDEIAKLAQQYDIGCHVDACLGGFILPFAEKLDYDIPVFDFRIPGVTSMSVDTHKFGYAAKGTSVVLFGNKKLRRAMYFVAPNWPGGIYASPTLPGSRPGGLVAACWASLVSMGNDGFLEKAKGVMETTKKIIKGLQSINGVKIIGDPKAMVVAFTCDNIFYVNDYMSKKGWHLNALQRPNSLHVCVTAKMIGMESLFIEDLKDSIKLVKDNSGSLPKDGTAPIYGSAHSVPDREMVGTILSDFIDELITPDYKPSQST |
| 3804 | sp|Q9CXH7|SGO1\_MOUSE | MAKERCQKRSFQDTLEDIKNRMKEKRNKNLAGIGKRKSFIVAPGQVPTNTATLLRYYQDNNRLLVLALENEKSKVREAQDVILQLRKECYYLTCQLYALKEKLTSRQSEETTQNWKGRPSDVVSSIDNTTRDLSGKSLQQIAVEETDCPYQTTEPSPAVTPETQGCDFDSGKVESTDEVLPRTISIRRHLRKDFSNISHSTTLEDCKASPRVAQSLEVKGSRCREVTVTLHRLENVCLWNKDQISLCSRLINPAKITETEVILSSKPEQIESKHKRARKRRAEQRRTKQRCKSKSSLRSKGNKNKDKQGLPPTTLDGGIGSCDAYDFNLKGTVHPTPFRQKMNNGCNKETDSSNSEVSDLECSTSEDESDDLYLPPSKRLRDYRESERAVTRPRSKRGLQYPDGKERKEVLPSTAPTGIPPETQESPRCSLKDVTNILQCPRVKIRKPSLPPKRREDSPAVALTKRRCSTIKSYKEPTLASKLRRGDPFTDLCFLNSPIFKQKRGMRCPKRRTKQTQ |
| 3805 | sp|Q8C0T5|SI1L1\_MOUSE | MTSLKRSQTERPVTADRASVVSTDGAPKVHTDDFYMRRFRSQNGSLGSSVMAAVGPPRSEGPHHITSTPGVPKMGVRARIADWPPRKENVKESSRSSQEIETSSCLESLSSKGSPVSQGSSVSLNSNDSAMLKSIQNTLKNKTGPAESMDSRFLMPEAYPSSPRKALRRIRQRSNSDITISELDVDSFDECISPTYKSGPSLHREYGSTSSIDKQGTSGDSFFDLLKGYKDDRSDRGPTPTKLSDFLITGGGKGSGFSLDVIDGPISQRENLRLFKEREKPLKRRSKSETGDSSIFRKLRNAKGEELGKSSDLEDNRSEDSVRPWTCPKCFAHYDVQSILFDLNEAIMNRHNVIKRRNTTTGASAAAVASLVSGPLSHSASFSSPMGSTEDLNSKGSLGMDQGDDKSNELVMSCPYFRNEIGGEGERKISLSKSNSGSFSGCESTSFESALSSHCTNAGVAVLEVPKESLMLHLDRVKRYTVEHVDLGAYYYRKFFYQKEHWNYFGADENLGPVAVSIRREKPEDMKENGSPYNYRIIFRTSELMTLRGSVLEDAIPSTAKHSTARGLPLKEVLEHVIPELNVQCLRLAFNTPKVTEQLMKLDEQGLNYQQKVGIMYCKAGQSTEEEMYNNESAGPAFEEFLQLLGERVRLKGFEKYRAQLDTKTDSTGTHSLYTTYKDYEIMFHVSTMLPYTPNNKQQLLRKRHIGNDIVTIVFQEPGAQPFSPKNIRSHFQHVFVIVRAHNPCTESVCYSVAVTRSRDVPSFGPPIPKGVTFPKSNVFRDFLLAKVINAENAAHKSEKFRAMATRTRQEYLKDLAEKNVTNTPIDPSGKFPFISLASKKKEKSKPYPGAELSSMGAIVWAVRAKDYNKAMEFDCLLGISSEFIVLIEQETKSVAFNCSCRDVIGWTSSDTSLKIFYERGECVSVESFISGEDIKEIVRRLQFVSKGCESVEMTLRRNGLGQLGFHVNYEGIVADVEPYGYAWQAGLRQGSRLVEICKVAVATLSHEQMIDLLRTSVTVKVVIIPPHDDCTPRRSCSETYRMPVMEYQMNEGISYEFKFPFRNNNKWQRNASKGAHSPQVPSQLQSPMTSRLNAGKGDGKMPPPERAANIPRSISSDGRPLERRLSPGSDIYVTVSSMALARSQCRNSPSNLSSSSETGSGGGTYRQKSMPEGFGVSRRSPASIDRQNTQSDISGSGKSTPSWQRSEDSLADQMEPTCHLPAVSKVLPAFRESPSGRLMRQDPVVHLSPNKQGHSDSHYSSHSSSNTLSSNASSAHSDEKWYDGDRTESDLNSYNYLQGTSADSGIDTASYGPSHGSTASLGASTSSPRSGPGKEKVAPLWHSSSEVLSLADRTLETEGHGMDRKAESSLSLDIHSKSQGGSSPLSRENSTFSINDAASHTSTMSSRHSASPVVFSSARSSPKEELHPTASSQLAPSFSSSSSSSSGPRTFYPRQGATSKYLIGWKKPEGTINSVGFMDTRKRHQSDGNEIAHTRLRASTRDLQASPKPTSKSTIEEDLKKLIDLESPTPESQKNFKFHALSSPQSPFPTTPTSRRALHRTLSDESIYSSQREHFFTSRASLLDQALPNDVLFSSTYPSLPKSLPLRRPSYTLGMKSLHGEFSASDSSLTDIQETRRQPIPDPGLMPLPDAASDLDWSNLVDAAKAYEVQRASFFAASDENHRPLSAASNSDQLEEQALVQMKSYSSKDPSPTLASKVDQLEGMLKMLREDLKKEKEDKAQLQAEVEHLREDNLRLQEESQNASDKLKKFTEWVFNTIDMS |
| 3806 | sp|Q9NPC8|SIX2\_HUMAN | MSMLPTFGFTQEQVACVCEVLQQGGNIERLGRFLWSLPACEHLHKNESVLKAKAVVAFHRGNFRELYKILESHQFSPHNHAKLQQLWLKAHYIEAEKLRGRPLGAVGKYRVRRKFPLPRSIWDGEETSYCFKEKSRSVLREWYAHNPYPSPREKRELAEATGLTTTQVSNWFKNRRQRDRAAEAKERENNENSNSNSHNPLNGSGKSVLGSSEDEKTPSGTPDHSSSSPALLLSPPPPGLPSLHSLGHPPGPSAVPVPVPGGGGADPLQHHHGLQDSILNPMSANLVDLGS |
| 3807 | sp|O35324|SH21B\_MOUSE | MDLPYYHGCLTKRECEALLLKGGVDGNFLIRDSESVPGALCLCVSFKKLVYSYRIFREKHGYYRIETDAHTPRTIFPNLQELVSKYGKPGQGLVVHLSNPIMRNNLCQRGRRMELELNVYENTDEEYVDVLP |
| 3808 | sp|Q06986|SIAH2\_MOUSE | MSRPSSTGPSANKPCSKQPPPPQTPHAPSPAAPPAAATISAAGPGSSAVPAAAAVISGPGAGGGADPVSPQHHELTSLFECPVCFDYVLPPILQCQAGHLVCNQCRQKLSCCPTCRGALTPSIRNLAMEKVASAVLFPCKYATTGCSLTLHHTEKPEHEDICEYRPYSCPCPGASCKWQGSLEAVMSHLMHAHKSITTLQGEDIVFLATDINLPGAVDWVMMQSCFGHHFMLVLEKQEKYEGHQQFFAIVLLIGTRKQAENFAYRLELNGNRRRLTWEATPRSIHDGVAAAIMNSDCLVFDTAIAHLFADNGNLGINVTISTCCQ |
| 3809 | sp|Q24323|SEM2A\_DROME | MSLLQLSPLLALLLLLCSSVSETAADYENTWNFYYERPCCTGNDQGNNNYGKHGADHVREFNCGKLYYRTFHMNEDRDTLYVGAMDRVFRVNLQNISSSNCNRDVINLEPTRDDVVSCVSKGKSQIFDCKNHVRVIQSMDQGDRLYVCGTNAHNPKDYVIYANLTHLPRSEYVIGVGLGIAKCPYDPLDNSTAIYVENGNPGGLPGLYSGTNAEFTKADTVIFRTDLYNTSAKRLEYKFKRTLKYDSKWLDKPNFVGSFDIGEYVYFFFRETAVEYINCGKAVYSRIARVCKKDVGGKNLLAHNWATYLKARLNCSISGEFPFYFNEIQSVYQLPSDKSRFFATFTTSTNGLIGSAVCSFHINEIQAAFNGKFKEQSSSNSAWLPVLNSRVPEPRPGTCVNDTSNLPDTVLNFIRSHPLMDKAVNHEHNNPVYYKRDLVFTKLVVDKIRIDILNQEYIVYYVGTNLGRIYKIVQYYRNGESLSKLLDIFEVAPNEAIQVMEISQTRKSLYIGTDHRIKQIDLAMCNRRYDNCFRCVRDPYCGWDKEANTCRPYELDLLQDVANETSDICDSSVLKKKIVVTYGQSVHLGCFVKIPEVLKNEQVTWYHHSKDKGRYEIRYSPTKYIETTERGLVVVSVNEADGGRYDCHLGGSLLCSYNITVDAHRCTPPNKSNDYQKIYSDWCHEFEKYKTAMKSWEKKQAQCSTRQNFSSNQHPNEIFRKPNV |
| 3810 | sp|Q9JLS4|SFRP4\_RAT | MLLSILVALCLCVRLALGVRGAPCEAVRIPMCRHMPWNITRMPNHLHHSTQENAILAIEQYEELVDVNCSSVLRFFLCAMYAPICTLEFLHDPIKPCKSVCQRARDDCEPLMKMYNHSWPESLACDELPVYDRGVCISPEAIVTDLPEDVKWIDITPDMMVQERSFDADCKHLSPDRCKCKKVKPTLATYLSKNYSYVIHAKIKAVQRSGCNEVTTVVDVKEIFKSSSPIPRTQVPLITNSSCQCPHILPHQDVLIMCYERRSRMMLLENCLVEKWRDQLSRRSTQWEERLQEQQRTTQDKKQIASRTSRSNPPKPKGRSPASKPASPKKNIKARSAPKKSNPKKSTS |
| 3811 | sp|Q9XGX0|SHI\_ARATH | MAGFFSLGHGGGGNTPDNHRTNTNNPSSSGTESWLWCRNPNSNADGGEAGPSYKGTLELWQHPNNQEIIFQQQQQQQQRLDLYTSAAGLGVGPSNRSLIETSGGALMMMRSGSGSGGPSCQDCGNQSKKDCSHMRCRTCCKSRGLDCPTHVKSTWVPAAKRRERQQQLSTGQQPQQLGGSVPKRQRERIPARSTSMAYTRIPSNNTSGLEVGNFPPEVSSSAVFRCVRVSSVDDEEEEYAYKTAVSIGGHVFKGVLYDQGPAERSSSGGGSQPLNLITAGPSASSSSPNVSCNNGVVGSTSDHYIDPASLNYPTPINTFMTGTHFFSNSRS |
| 3812 | sp|P34900|SDC2\_RAT | MQRAWILLTLGLMACVSAETRAELTSDKDMYLDSSSIEEASGLYPIDDDDYSSASGSGAYEDKGSPDLTTSQLIPRISLTSAAPEVETMTLKTQSITPTQTESPEETDKKEFEISEAEEKQDPAVKSTDVYTEKHSDNLFKRTEVLAAVIAGGVIGFLFAIFLILLLVYRMRKKDEGSYDLGERKPSSAAYQKAPTKEFYA |
| 3813 | sp|O35988|SDC4\_MOUSE | MAPACLLAPLLLLLLGGFPLVPGESIRETEVIDPQDLLEGRYFSGALPDDEDAGGSDDFELSGSGDLDDTEEPRPFPEVIEPLVPLDNHIPENAQPGIRVPSEPKELEENEVIPKRAPSDVGDDMSNKVSMSSTAQGSNIFERTEVLAALIVGGVVGILFAVFLILLLVYRMKKKDEGSYDLGKKPIYKKAPTNEFYA |
| 3814 | sp|P82347|SGCD\_MOUSE | MPQEQYSHHRSTMPSSEGPHIYKVGIYGWRKRCLYFFVLLLMILILVNLAMTIWILKVMNFTIDGMGNLRITEKGLKLEGDSEFLQPLYAKEIKSRPGNALYFKSARNVTVNILNDQTKVLTQLVTGPKAVEAYGKRFEVKTVSGKLLFSADDSEVVVGAERLRVLGAEGTVFPKSIETPNVRADPFKELRLESPTRSLVMEAPKGVEINAEAGNMEAICRSELRLESKDGEIKLDAAKIKLPRLPRGSYTPTGTRQKVFEVCVCANGRLFLSQAGTGSTCQINTSVCL |
| 3815 | sp|Q07657|SHS1\_YEAST | MSTASTPPINLFRRKKEHKRGITYTMLLCGPAGTGKTAFANNLLETKIFPHKYQYGKSNASISSNPEVKVIAPTKVVSFNSKNGIPSYVSEFDPMRANLEPGITITSTSLELGGNKDQGKPEMNEDDTVFFNLIMTHGIGENLDDSLCSEEVMSYLEQQFDIVLAEETRIKRNPRFEDTRVHVALYFIEPTGHGLREVDVELMKSISKYTNVLPIITRADSFTKEELTQFRKNIMFDVERYNVPIYKFEVDPEDDDLESMEENQALASLQPFAIITSDTRDSEGRYVREYPWGIISIDDDKISDLKVLKNVLFGSHLQEFKDTTQNLLYENYRSEKLSSVANAEEIGPNSTKRQSNAPSLSNFASLISTGQFNSSQTLANNLRADTPRNQVSGNFKENEYEDNGEHDSAENEQEMSPVRQLGREIKQENENLIRSIKTESSPKFLNSPDLPERTKLRNISETVPYVLRHERILARQQKLEELEAQSAKELQKRIQELERKAHELKLREKLINQNKLNGSSSSINSLQQSTRSQIKKNDTYTDLASIASGRD |
| 3816 | sp|O81905|SD18\_ARATH | MRGLPNFYHSYTFFFFFLLILFPAYSISANTLSASESLTISSNNTIVSPGNVFELGFFKPGLDSRWYLGIWYKAISKRTYVWVANRDTPLSSSIGTLKISDSNLVVLDQSDTPVWSTNLTGGDVRSPLVAELLDNGNFVLRDSKNSAPDGVLWQSFDFPTDTLLPEMKLGWDAKTGFNRFIRSWKSPDDPSSGDFSFKLETEGFPEIFLWNRESRMYRSGPWNGIRFSGVPEMQPFEYMVFNFTTSKEEVTYSFRITKSDVYSRLSISSSGLLQRFTWIETAQNWNQFWYAPKDQCDEYKECGVYGYCDSNTSPVCNCIKGFKPRNPQVWGLRDGSDGCVRKTLLSCGGGDGFVRLKKMKLPDTTTASVDRGIGVKECEQKCLRDCNCTAFANTDIRGSGSGCVTWTGELFDIRNYAKGGQDLYVRLAATDLEDKRNRSAKIIGSSIGVSVLLLLSFIIFFLWKRKQKRSILIETPIVDHQLRSRDLLMNEVVISSRRHISRENNTDDLELPLMEFEEVAMATNNFSNANKLGQGGFGIVYKGKLLDGQEMAVKRLSKTSVQGTDEFKNEVKLIARLQHINLVRLLACCVDAGEKMLIYEYLENLSLDSHLFDKSRNSKLNWQMRFDIINGIARGLLYLHQDSRFRIIHRDLKASNILLDKYMTPKISDFGMARIFGRDETEANTRKVVGTYGYMSPEYAMDGIFSMKSDVFSFGVLLLEIISSKRNKGFYNSDRDLNLLGCVWRNWKEGKGLEIIDPIITDSSSTFRQHEILRCIQIGLLCVQERAEDRPTMSLVILMLGSESTTIPQPKAPGYCLERSLLDTDSSSSKQRDDESWTVNQITVSVLDAR |
| 3817 | sp|P45697|SCM1\_MESMA | MNYLVMISFALLLMTGVESVRDAYIAKPHNCVYECARNEYCNDLCTKNGAKSGYCQWVGKYGNGCWCIELPDNVPIRVPGKCHR |
| 3818 | sp|Q9LPZ9|SD113\_ARATH | MGCLLILLLTLICFSLRLCLATDVITFSSEFRDSETVVSNHSTFRFGFFSPVNSTGRYAGIWFNNIPVQTVVWVANSNSPINDSSGMVSISKEGNLVVMDGRGQVHWSTNVLVPVAANTFYARLLNTGNLVLLGTTNTGDEILWESFEHPQNIYLPTMSLATDTKTGRSLKLRSWKSPFDPSPGRYSAGLIPLPFPELVVWKDDLLMWRSGPWNGQYFIGLPNMDYRINLFELTLSSDNRGSVSMSYAGNTLLYHFLLDSEGSVFQRDWNVAIQEWKTWLKVPSTKCDTYATCGQFASCRFNPGSTPPCMCIRGFKPQSYAEWNNGNWTQGCVRKAPLQCESRDNNDGSRKSDGFVRVQKMKVPHNPQRSGANEQDCPESCLKNCSCTAYSFDRGIGCLLWSGNLMDMQEFSGTGVVFYIRLADSEFKKRTNRSIVITVTLLVGAFLFAGTVVLALWKIAKHREKNRNTRLLNERMEALSSNDVGAILVNQYKLKELPLFEFQVLAVATNNFSITNKLGQGGFGAVYKGRLQEGLDIAVKRLSRTSGQGVEEFVNEVVVISKLQHRNLVRLLGFCIEGEERMLVYEFMPENCLDAYLFDPVKQRLLDWKTRFNIIDGICRGLMYLHRDSRLKIIHRDLKASNILLDENLNPKISDFGLARIFQGNEDEVSTVRVVGTYGYMAPEYAMGGLFSEKSDVFSLGVILLEIVSGRRNSSFYNDGQNPNLSAYAWKLWNTGEDIALVDPVIFEECFENEIRRCVHVGLLCVQDHANDRPSVATVIWMLSSENSNLPEPKQPAFIPRRGTSEVESSGQSDPRASINNVSLTKITGR |
| 3819 | sp|P51170|SCNNG\_HUMAN | MAPGEKIKAKIKKNLPVTGPQAPTIKELMRWYCLNTNTHGCRRIVVSRGRLRRLLWIGFTLTAVALILWQCALLVFSFYTVSVSIKVHFRKLDFPAVTICNINPYKYSTVRHLLADLEQETREALKSLYGFPESRKRREAESWNSVSEGKQPRFSHRIPLLIFDQDEKGKARDFFTGRKRKVGGSIIHKASNVMHIESKQVVGFQLCSNDTSDCATYTFSSGINAIQEWYKLHYMNIMAQVPLEKKINMSYSAEELLVTCFFDGVSCDARNFTLFHHPMHGNCYTFNNRENETILSTSMGGSEYGLQVILYINEEEYNPFLVSSTGAKVIIHRQDEYPFVEDVGTEIETAMVTSIGMHLTESFKLSEPYSQCTEDGSDVPIRNIYNAAYSLQICLHSCFQTKMVEKCGCAQYSQPLPPAANYCNYQQHPNWMYCYYQLHRAFVQEELGCQSVCKEACSFKEWTLTTSLAQWPSVVSEKWLLPVLTWDQGRQVNKKLNKTDLAKLLIFYKDLNQRSIMESPANSIEMLLSNFGGQLGLWMSCSVVCVIEIIEVFFIDFFSIIARRQWQKAKEWWAWKQAPPCPEAPRSPQGQDNPALDIDDDLPTFNSALHLPPALGTQVPGTPPPKYNTLRLERAFSNQLTDTQMLDEL |
| 3820 | sp|P37091|SCNNG\_RAT | MAPGEKIKAKIKKNLPVRGPQAPTIKDLMHWYCMNTNTHGCRRIVVSRGRLRRLLWIAFTLTAVALIIWQCALLVFSFYTVSVSIKVHFQKLDFPAVTICNINPYKYSAVSDLLTDLDSETKQALLSLYGVKESRKRREAGSMPSTLEGTPPRFFKLIPLLVFNENEKGKARDFFTGRKRKISGKIIHKASNVMHVHESKKLVGFQLCSNDTSDCATYTFSSGINAIQEWYKLHYMNIMAQVPLEKKINMSYSAEELLVTCFFDGMSCDARNFTLFHHPMYGNCYTFNNKENATILSTSMGGSEYGLQVILYINEDEYNPFLVSSTGAKVLIHQQNEYPFIEDVGMEIETAMSTSIGMHLTESFKLSEPYSQCTEDGSDVPVTNIYNAAYSLQICLYSCFQTKMVEKCGCAQYSQPLPPAANYCNYQQHPNWMYCYYQLYQAFVREELGCQSVCKQSCSFKEWTLTTSLAQWPSEASEKWLLNVLTWDQSQQINKKLNKTDLAKLLIFYKDLNQRSIMESPANSIEMLLSNFGGQLGLWMSCSVVCVIEIIEVFFIDFFSIIARRQWHKAKDWWARRQTPPSTETPSSRQGQDNPALDTDDDLPTFTSAMRLPPAPGSTVPGTPPPRYNTLRLDRAFSSQLTDTQLTNEL |
| 3821 | sp|Q9NZV5|SELN\_HUMAN | MGRARPGQRGPPSPGPAAQPPAPPRRRARSLALLGALLAAAAAAAVRVCARHAEAQAAARQELALKTLGTDGLFLFSSLDTDGDMYISPEEFKPIAEKLTGSCSVTQTGVQWCSHSSLQPQLPWLNUSSCLSLLRSTPAASCEEEELPPDPSEETLTIEARFQPLLPETMTKSKDGFLGVSRLALSGLRNWTAAASPSAVFATRHFQPFLPPPGQELGEPWWIIPSELSMFTGYLSNNRFYPPPPKGKEVIIHRLLSMFHPRPFVKTRFAPQGAVACLTAISDFYYTVMFRIHAEFQLSEPPDFPFWFSPAQFTGHIILSKDATHVRDFRLFVPNHRSLNVDMEWLYGASESSNMEVDIGYIPQMELEATGPSVPSVILDEDGSMIDSHLPSGEPLQFVFEEIKWQQELSWEEAARRLEVAMYPFKKVSYLPFTEAFDRAKAENKLVHSILLWGALDDQSCUGSGRTLRETVLESSPILTLLNESFISTWSLVKELEELQNNQENSSHQKLAGLHLEKYSFPVEMMICLPNGTVVHHINANYFLDITSVKPEEIESNLFSFSSTFEDPSTATYMQFLKEGLRRGLPLLQP |
| 3822 | sp|P15389|SCN5A\_RAT | MANLLLPRGTSSFRRFTRESLAAIEKRMAEKQARGGSATSQESREGLQEEEAPRPQLDLQASKKLPDLYGNPPRELIGEPLEDLDPFYSTQKTFIVLNKGKTIFRFSATNALYVLSPFHPVRRAAVKILVHSLFSMLIMCTILTNCVFMAQHDPPPWTKYVEYTFTAIYTFESLVKILARGFCLHAFTFLRDPWNWLDFSVIVMAYTTEFVDLGNVSALRTFRVLRALKTISVISGLKTIVGALIQSVKKLADVMVLTVFCLSVFALIGLQLFMGNLRHKCVRNFTELNGTNGSVEADGLVWNSLDVYLNDPANYLLKNGTTDVLLCGNSSDAGTCPEGYRCLKAGENPDHGYTSFDSFAWAFLALFRLMTQDCWERLYQQTLRSAGKIYMIFFMLVIFLGSFYLVNLILAVVAMAYEEQNQATIAETEEKEKRFQEAMEMLKKEHEALTIRGVDTVSRSSLEMSPLAPVTNHERKSKRRKRLSSGTEDGGDDRLPKSDSEDGPRALNQLSLTHGLSRTSMRPRSSRGSIFTFRRRDQGSEADFADDENSTAGESESHRTSLLVPWPLRHPSAQGQPGPGASAPGYVLNGKRNSTVDCNGVVSLLGAGDAEATSPGSYLLRPMVLDRPPDTTTPSEEPGGPQMLTPQAPCADGFEEPGARQRALSAVSVLTSALEELEESHRKCPPCWNRFAQHYLIWECCPLWMSIKQKVKFVVMDPFADLTITMCIVLNTLFMALEHYNMTAEFEEMLQVGNLVFTGIFTAEMTFKIIALDPYYYFQQGWNIFDSIIVILSLMELGLSRMGNLSVLRSFRLLRVFKLAKSWPTLNTLIKIIGNSVGALGNLTLVLAIIVFIFAVVGMQLFGKNYSELRHRISDSGLLPRWHMMDFFHAFLIIFRILCGEWIETMWDCMEVSGQSLCLLVFLLVMVIGNLVVLNLFLALLLSSFSADNLTAPDEDGEMNNLQLALARIQRGLRFVKRTTWDFCCGILRRRPKKPAALATHSQLPSCITAPRSPPPPEVEKVPPARKETRFEEDKRPGQGTPGDSEPVCVPIAVAESDTEDQEEDEENSLGTEEESSKQESQVVSGGHEPYQEPRAWSQVSETTSSEAGASTSQADWQQEQKTEPQAPGCGETPEDSYSEGSTADMTNTADLLEQIPDLGEDVKDPEDCFTEGCVRRCPCCMVDTTQSPGKVWWRLRKTCYRIVEHSWFETFIIFMILLSSGALAFEDIYLEERKTIKVLLEYADKMFTYVFVLEMLLKWVAYGFKKYFTNAWCWLDFLIVDVSLVSLVANTLGFAEMGPIKSLRTLRALRPLRALSRFEGMRVVVNALVGAIPSIMNVLLVCLIFWLIFSIMGVNLFAGKFGRCINQTEGDLPLNYTIVNNKSECESFNVTGELYWTKVKVNFDNVGAGYLALLQVATFKGWMDIMYAAVDSRGYEEQPQWEDNLYMYIYFVVFIIFGSFFTLNLFIGVIIDNFNQQKKKLGGQDIFMTEEQKKYYNAMKKLGSKKPQKPIPRPLNKYQGFIFDIVTKQAFDVTIMFLICLNMVTMMVETDDQSPEKVNILAKINLLFVAIFTGECIVKMAALRHYYFTNSWNIFDFVVVILSIVGTVLSDIIQKYFFSPTLFRVIRLARIGRILRLIRGAKGIRTLLFALMMSLPALFNIGLLLFLVMFIYSIFGMANFAYVKWEAGIDDMFNFQTFANSMLCLFQITTSAGWDGLLSPILNTGPPYCDPNLPNSNGSRGNCGSPAVGILFFTTYIIISFLIVVNMYIAIILENFSVATEESTEPLSEDDFDMFYEIWEKFDPEATQFIEYLALSDFADALSEPLRIAKPNQISLINMDLPMVSGDRIHCMDILFAFTKRVLGESGEMDALKIQMEEKFMAANPSKISYEPITTTLRRKHEEVSATVIQRAFRRHLLQRSVKHASFLFRQQAGGSGLSDEDAPEREGLIAYMMNGNFSRRSAPLSSSSISSTSFPPSYDSVTRATSDNLPVRASDYSRSEDLADFPPSPDRDRESIV |
| 3823 | sp|Q01118|SCN7A\_HUMAN | MLASPEPKGLVPFTKESFELIKQHIAKTHNEDHEEEDLKPTPDLEVGKKLPFIYGNLSQGMVSEPLEDVDPYYYKKKNTFIVLNKNRTIFRFNAASILCTLSPFNCIRRTTIKVLVHPFFQLFILISVLIDCVFMSLTNLPKWRPVLENTLLGIYTFEILVKLFARGVWAGSFSFLGDPWNWLDFSVTVFEVIIRYSPLDFIPTLQTARTLRILKIIPLNQGLKSLVGVLIHCLKQLIGVIILTLFFLSIFSLIGMGLFMGNLKHKCFRWPQENENETLHNRTGNPYYIRETENFYYLEGERYALLCGNRTDAGQCPEGYVCVKAGINPDQGFTNFDSFGWALFALFRLMAQDYPEVLYHQILYASGKVYMIFFVVVSFLFSFYMASLFLGILAMAYEEEKQRVGEISKKIEPKFQQTGKELQEGNETDEAKTIQIEMKKRSPISTDTSLDVLEDATLRHKEELEKSKKICPLYWYKFAKTFLIWNCSPCWLKLKEFVHRIIMAPFTDLFLIICIILNVCFLTLEHYPMSKQTNTLLNIGNLVFIGIFTAEMIFKIIAMHPYGYFQVGWNIFDSMIVFHGLIELCLANVAGMALLRLFRMLRIFKLGKYWPTFQILMWSLSNSWVALKDLVLLLFTFIFFSAAFGMKLFGKNYEEFVCHIDKDCQLPRWHMHDFFHSFLNVFRILCGEWVETLWDCMEVAGQSWCIPFYLMVILIGNLLVLYLFLALVSSFSSCKDVTAEENNEAKNLQLAVARIKKGINYVLLKILCKTQNVPKDTMDHVNEVYVKEDISDHTLSELSNTQDFLKDKEKSSGTEKNATENESQSLIPSPSVSETVPIASGESDIENLDNKEIQSKSGDGGSKEKIKQSSSSECSTVDIAISEEEEMFYGGERSKHLKNGCRRGSSLGQISGASKKGKIWQNIRKTCCKIVENNWFKCFIGLVTLLSTGTLAFEDIYMDQRKTIKILLEYADMIFTYIFILEMLLKWMAYGFKAYFSNGWYRLDFVVVIVFCLSLIGKTREELKPLISMKFLRPLRVLSQFERMKVVVRALIKTTLPTLNVFLVCLMIWLIFSIMGVDLFAGRFYECIDPTSGERFPSSEVMNKSRCESLLFNESMLWENAKMNFDNVGNGFLSLLQVATFNGWITIMNSAIDSVAVNIQPHFEVNIYMYCYFINFIIFGVFLPLSMLITVIIDNFNKHKIKLGGSNIFITVKQRKQYRRLKKLMYEDSQRPVPRPLNKLQGFIFDVVTSQAFNVIVMVLICFQAIAMMIDTDVQSLQMSIALYWINSIFVMLYTMECILKLIAFRCFYFTIAWNIFDFMVVIFSITGLCLPMTVGSYLVPPSLVQLILLSRIIHMLRLGKGPKVFHNLMLPLMLSLPALLNIILLIFLVMFIYAVFGMYNFAYVKKEAGINDVSNFETFGNSMLCLFQVAIFAGWDGMLDAIFNSKWSDCDPDKINPGTQVRGDCGNPSVGIFYFVSYILISWLIIVNMYIVVVMEFLNIASKKKNKTLSEDDFRKFFQVWKRFDPDRTQYIDSSKLSDFAAALDPPLFMAKPNKGQLIALDLPMAVGDRIHCLDILLAFTKRVMGQDVRMEKVVSEIESGFLLANPFKITCEPITTTLKRKQEAVSATIIQRAYKNYRLRRNDKNTSDIHMIDGDRDVHATKEGAYFDKAKEKSPIQSQI |
| 3824 | sp|O73790|SPB10\_CHICK | MEQVSASIGNFTVDLFNKLNETNRDKNIFFSPWSISSALALTYLAAKGSTAREMAEVLHFTEAVRAESSSVARPSRGRPKRRRMDPEHEQAENIHSGFKELLTAFNKPRNNYSLRSANRIYVEKTYALLPTYLQLSKKYYKAEPQKVNFKTAPEQSRKEINTWVEKQTESKIKNLLSSDDVKATTRLILVNAIYFKAEWEVKFQAEKTSIQPFRLSKNKSKPVKMMYMRDTFPVLIMEKMNFKMIELPYVKRELSMFILLPDDIKDGTTGLEQLERELTYERLSEWADSKMMTETLVDLHLPKFSLEDRIDLRDTLRNMGMTTAFTTNADFRGMTDKKDLAISKVIHQSFVAVDEKGTEAAAATAVIISFTTSVINHVLKFKVDHPFHFFIRHNKSKTILFFGRFCCPVE |
| 3825 | sp|Q9JI92|SDCB1\_RAT | MSLYPSLEDLKVDKVIQAQTASSANPASQAFFLNVVDSAAFPPGGNLYPKLYPELSQYMGLSLSEAEICENMPVVSGAPTQGQLVARPSSVNYMVAPVTGNDAGIRRAEIKQGIREVILCKDQDGKIGLRLKSVDNGIFVQLVQANSPASLVGLRFGDQVLQINGENCAGWSSDKAHKVLKQAFGEKITMTIRDRPFERTVTMHKDSSGHVGFIFKSGKITSIVKDSSAARNGLLTDHHICEINGQNVIGLKDAQIADILSTAGTVVTITIMPAFIFEHIIKRMAPSIMKSLMDHTIPEV |
| 3826 | sp|Q62205|SCN9A\_MOUSE | MAMLPPPGPQSFVHFTKQSLALIEQRISEEKAKGHKDEKKDDEEEGPKPSSDLEAGKQLPFIYGDIPPGMVSEPLEDLDPYYADKKTFIVLNKGKAIFRFNATPALYMLSPFSPLRRISIKILVHSLFSMLIMCTILTNCIFMTMSNPPDWTKNVEYTFTGIYTFESLIKILARGFCVGEFTFLRDPWNWLDFVVIVFAYLTEFVNLGNVSALRTFRVLRALKTISVIPGLKTIVGALIQSVKKLSDVMILTVFCLSVFALIGLQLFMGNLKHKCFRKDLEQNETLESIMSTAESEEELKRYFYYLEGSKDALLCGFSTDSGQCPEGYECVTAGRNPDYGYTSFDTFGWAFLALFRLMTQDYWENLYQQTLRAAGKTYMIFFVVVIFLGSFYLINLILAVVAMAYEEQNQANIEEAKQKELEFQQMLDRLKKEQEEAEAIAAAAAEYTSLGRSRIMGLSESSSETSRLSSKSAKERRNRRKKKKQKLSSGEEKGDDEKLSKSGSEESIRKKSFHLGVEGHHRAREKRLSTPNQSPLSIRGSLFSARRSSRTSLFSFKGRGRDLGSETEFADDEHSIFGDNESRRGSLFVPHRPRERRSSNISQASRSPPVLPVNGKMHSAVDCNGVVSLVDGPSALMLPNGQLLPEVIIDKATSDDSGTTNQMRKKRLSSSYFLSEDMLNDPHLRQRAMSRASILTNTVEELEESRQKCPPWWYRFAHTFLIWNCSPYWIKFKKFIYFIVMDPFVDLAITICIVLNTLFMAMEHHPMTDEFKNVLAVGNLVFTGIFAAEMVLKLIAMDPYEYFQVGWNIFDSLIVTLSLVELFLADVEGLSVLRSFRLLRVFKLAKSWPTLNMLIKIIGNSVGALGNLTLVLAIIVFIFAVVGMQLFGKSYKECVCKINENCKLPRWHMNDFFHSFLIVFRVLCGEWIETMWDCMEVAGQTMCLIVYMMVMVIGNLVVLNLFLALLLSSFSSDNLTAIEEDTDANNLQIAVARIKRGINYVKQTLREFILKSFSKKPKGSKDTKRTADPNNKRENYISNRTLAEISKDHNFLKEKDKISGFSSSLDKSFMDENDYQSFIHNPSLTVTVPIAPGESDLENMNTEELSSDSDSDYSKERRNRSSSSECSTVDNPLPGEEEAEAEPINADEPEACFTDGCVRRFPCCQVNIDSGKGKVWWTIRKTCYRIVEHSWFESFIVLMILLSSGALAFEDIYIEKKKTIKIILEYADKIFTYIFILEMLLKWVAYGYKTYFTNAWCWLDFLIVDVSLVTLVANTLGYSDLGPIKSLRTLRALRPLRALSRFEGMRVVVNALIGAIPSIMNVLLVCLIFWLIFSIMGVNLFAGKFYECVNTTDGSRFSVSQVANRSECFALMNVSGNVRWKNLKVNFDNVGLGYLSLLQVATFKGWMDIMYAAVDSVNVNAQPIYEYNLYMYIYFVIFIIFGSFFTLNLFIGVIIDNFNQQKKKLGGQDIFMTEEQKKYYNAMKKLGSKKPQKPIPRPGNKFQGCIFDLVTNQAFDITIMVLICLNMVTMMVEKEGQTDYMSFVLYWINVVFIILFTGECVLKLISLRHYYFTVGWNIFDFVVVILSIVGMFLAEMIEKYFVSPTLFRVIRLARIGRILRLIKGAKGIRTLLFALMMSLPALFNIGLLLFLVMFIYAIFGMSNFAYVKKEAGINDMFNFETFGNSMICLFQITTSAGWDGLLAPILNSAPPDCDPKKVHPGSSVEGDCGNPSVGIFYFVSYIIISFLVVVNMYIAVILENFSVATEESTEPLSEDDFEMFYEVWEKFDPDATQFIEFCKLSDFAAALDPPLLIAKPNKVQLIAMDLPMVSGDRIHCLDILFAFTKRVLGESGEMDSLRSQMEERFMSANPSKVSYEPITTTLKRKQEDVSATIIQRAYRRYRLRQNVKNISSIYIKDGDRDDDLPNKEDIVFDNVNENSSPEKTDATASTISPPSYDSVTKPDQEKYETDKTEKEDKEKDESRK |
| 3827 | sp|P41004|SMC4\_SCHPO | MSDKGIFRTSSTPSIVDVTPDRGERPRKLVRSVLESPSQKDVASIVKIEQTPSRPFFNDFLKKRITDSLNERPNLLNKFMSAQDGTPSKSTGFNERSSQLVSEFTTTEDIENCEETTQVLPPRLVVYELRLTNFKSYAGTQIVGPFHPSFSSIVGPNGSGKSNVIDALLFVFGFRASKLRQSKASALIHKSATHPSLDSCDVEITFKEVNSDFTYVDGSELTVRRTAYKNNTSKYFVNGVESSFSAVSNLLKEKGIDLNHKRFLILQGEVESIAQMKPRAISEGDDGLLEYLEDIIGTSKYKPIIEENMQELSNSDDICAEKESRLKLVLSEKAKLEDSKNSVLSFLKDENELFMKQNQLYRTILYETRNKKTLVQNLLNSLEGKLQAHLEKFEQTERDISEKNEEVKSLREKAAKVKNDCTSEKKTRQSYEQQTVKIEEQLKFLLNKEKKLKKSIEALSFEKSEAENSLSSHDIDSQKLNSEIADLSLRLQQEELSLDDIRKSLQGKTEGISNAIEEKQKAMAPALEKINQLTSEKQILQVELDMLLNKENDLINDVESSQSSLDKLRNDAEENRNILSSKLKVLSDLKGEKKDVSKNIERKKETVHNTYRNLMSNRTKLEEMKASLSSSRSRGNVLESLQRLHESDNLNGFFGRLGDLATIDEAYDVAISTACPALNHIVVDNIETGQKCVAFLRSNNLGRASFIILKELAQKNLARIQTPENVPRLFDLLRFNDQKFAPAFYNVLQNTLVAKNLEQANRIAYGKTRWRVVTLSGQLIDKSGTMTGGGTRVKKGGMSSAITSDVSPASVETCDKQVQLEDTRYRQHLSELESLNQRFTEISERIPSAELEISKLQLDVSACDRLVAGEERRILQLKSDLKSIRNNNERKRNLQNKISNMDKEVEAININNEGLVTEIKTLQDKIMEIGGIRYRIQKSKVDDLHEQLKFVKDKLNKMSFKKKKNEQRSQSFQVELSNLTSEYDTTTESIATLKTELQSLNKYVDEHKSRLREFENALWDINSSIDELVKFIEFESKQMNSVKAERIELENQIQEQRTALSEVGNNENKYLKLMSNLKLHNLTEFCDQTTMDSTFPEYSEDELSSVDKSELVSNISVLKKKTEDREVDINVLSEYRRCNKEAEKRDSDYQSELQKRTDLKKVVTDLQSQRLDEFMYGFGIISMKLKEMYQIITMGGNAELELVDSLDPFSEGVLFSVMPPKKSWKNISNLSGGEKTLSSLALVFALHNYKPTPLYVMDEIDAALDFKNVSIVANYIKERTKNAQFIVISLRSNMFELSSRLVGIYKTANMTKSVTINNKEILTD |
| 3828 | sp|Q9YHT2|SDHB\_CHICK | MAAAVVGVSLRRGVPARFLRAGLRPVRGLEAVHGICRGAQTAAAATSRIKKFSIYRWDPDKPGDKPRMQTYEVDLNKCGPMVLDALIKIKNELDSTLTFRRSCREGICGSCAMNIAGGNTLACTKKIDPDLSKTTKIYPLPHMYVVKDLVPDLSNFYAQYKSIEPYLKKKDESKQGKEQYLQSIEDRQKLDGLYECILCACCSTSCPSYWWNGDKYLGPAVLMQAYRWMIDSRDDYTEERLAQLQDPFSLYRCHTIMNCTRTCPKGLNPGKAIAEIKKMMATYKEKAAAA |
| 3829 | sp|P51531|SMCA2\_HUMAN | MSTPTDPGAMPHPGPSPGPGPSPGPILGPSPGPGPSPGSVHSMMGPSPGPPSVSHPMPTMGSTDFPQEGMHQMHKPIDGIHDKGIVEDIHCGSMKGTGMRPPHPGMGPPQSPMDQHSQGYMSPHPSPLGAPEHVSSPMSGGGPTPPQMPPSQPGALIPGDPQAMSQPNRGPSPFSPVQLHQLRAQILAYKMLARGQPLPETLQLAVQGKRTLPGLQQQQQQQQQQQQQQQQQQQQQQQPQQQPPQPQTQQQQQPALVNYNRPSGPGPELSGPSTPQKLPVPAPGGRPSPAPPAAAQPPAAAVPGPSVPQPAPGQPSPVLQLQQKQSRISPIQKPQGLDPVEILQEREYRLQARIAHRIQELENLPGSLPPDLRTKATVELKALRLLNFQRQLRQEVVACMRRDTTLETALNSKAYKRSKRQTLREARMTEKLEKQQKIEQERKRRQKHQEYLNSILQHAKDFKEYHRSVAGKIQKLSKAVATWHANTEREQKKETERIEKERMRRLMAEDEEGYRKLIDQKKDRRLAYLLQQTDEYVANLTNLVWEHKQAQAAKEKKKRRRRKKKAEENAEGGESALGPDGEPIDESSQMSDLPVKVTHTETGKVLFGPEAPKASQLDAWLEMNPGYEVAPRSDSEESDSDYEEEDEEEESSRQETEEKILLDPNSEEVSEKDAKQIIETAKQDVDDEYSMQYSARGSQSYYTVAHAISERVEKQSALLINGTLKHYQLQGLEWMVSLYNNNLNGILADEMGLGKTIQTIALITYLMEHKRLNGPYLIIVPLSTLSNWTYEFDKWAPSVVKISYKGTPAMRRSLVPQLRSGKFNVLLTTYEYIIKDKHILAKIRWKYMIVDEGHRMKNHHCKLTQVLNTHYVAPRRILLTGTPLQNKLPELWALLNFLLPTIFKSCSTFEQWFNAPFAMTGERVDLNEEETILIIRRLHKVLRPFLLRRLKKEVESQLPEKVEYVIKCDMSALQKILYRHMQAKGILLTDGSEKDKKGKGGAKTLMNTIMQLRKICNHPYMFQHIEESFAEHLGYSNGVINGAELYRASGKFELLDRILPKLRATNHRVLLFCQMTSLMTIMEDYFAFRNFLYLRLDGTTKSEDRAALLKKFNEPGSQYFIFLLSTRAGGLGLNLQAADTVVIFDSDWNPHQDLQAQDRAHRIGQQNEVRVLRLCTVNSVEEKILAAAKYKLNVDQKVIQAGMFDQKSSSHERRAFLQAILEHEEENEEEDEVPDDETLNQMIARREEEFDLFMRMDMDRRREDARNPKRKPRLMEEDELPSWIIKDDAEVERLTCEEEEEKIFGRGSRQRRDVDYSDALTEKQWLRAIEDGNLEEMEEEVRLKKRKRRRNVDKDPAKEDVEKAKKRRGRPPAEKLSPNPPKLTKQMNAIIDTVINYKDRCNVEKVPSNSQLEIEGNSSGRQLSEVFIQLPSRKELPEYYELIRKPVDFKKIKERIRNHKYRSLGDLEKDVMLLCHNAQTFNLEGSQIYEDSIVLQSVFKSARQKIAKEEESEDESNEEEEEEDEEESESEAKSVKVKIKLNKKDDKGRDKGKGKKRPNRGKAKPVVSDFDSDEEQDEREQSEGSGTDDE |
| 3830 | sp|Q9BZL3|SMIM3\_HUMAN | MDAVSQVPMEVVLPKHILDIWVIVLIILATIVIMTSLLLCPATAVIIYRMRTHPILSGAV |
| 3831 | sp|Q61263|SOAT1\_MOUSE | MSLRNRLSKSGENPEQDEAQKNFMDTYRNGHITMKQLIAKKRLLAAEAEELKPLFMKEVGCHFDDFVTNLIEKSASLDNGGCALTTFSILEEMKKNHRAKDLRAPPEQGKIFISRQSLLDELFEVDHIRTIYHMFIALLILFVLSTIVVDYIDEGRLVLEFNLLAYAFGKFPTVIWTWWAMFLSTLSIPYFLFQRWAHGYSKSSHPLIYSLVHGLLFLVFQLGVLGFVPTYVVLAYTLPPASRFILILEQIRLIMKAHSFVRENIPRVLNAAKEKSSKDPLPTVNQYLYFLFAPTLIYRDNYPRTPTVRWGYVAMQFLQVFGCLFYVYYIFERLCAPLFRNIKQEPFSARVLVLCVFNSILPGVLILFLSFFAFLHCWLNAFAEMLRFGDRMFYKDWWNSTSYSNYYRTWNVVVHDWLYYYVYKDLLWFFSKRFKSAAMLAVFALSAVVHEYALAICLSYFYPVLFVLFMFFGMAFNFIVNDSRKRPIWNIMVWASLFLGYGLILCFYSQEWYARQHCPLKNPTFLDYVRPRTWTCRYVF |
| 3832 | sp|Q6Q1S2|SPIKE\_CVHNL | MKLFLILLVLPLASCFFTCNSNANLSMLQLGVPDNSSTIVTGLLPTHWFCANQSTSVYSANGFFYIDVGNHRSAFALHTGYYDANQYYIYVTNEIGLNASVTLKICKFSRNTTFDFLSNASSSFDCIVNLLFTEQLGAPLGITISGETVRLHLYNVTRTFYVPAAYKLTKLSVKCYFNYSCVFSVVNATVTVNVTTHNGRVVNYTVCDDCNGYTDNIFSVQQDGRIPNGFPFNNWFLLTNGSTLVDGVSRLYQPLRLTCLWPVPGLKSSTGFVYFNATGSDVNCNGYQHNSVVDVMRYNLNFSANSLDNLKSGVIVFKTLQYDVLFYCSNSSSGVLDTTIPFGPSSQPYYCFINSTINTTHVSTFVGILPPTVREIVVARTGQFYINGFKYFDLGFIEAVNFNVTTASATDFWTVAFATFVDVLVNVSATNIQNLLYCDSPFEKLQCEHLQFGLQDGFYSANFLDDNVLPETYVALPIYYQHTDINFTATASFGGSCYVCKPHQVNISLNGNTSVCVRTSHFSIRYIYNRVKSGSPGDSSWHIYLKSGTCPFSFSKLNNFQKFKTICFSTVEVPGSCNFPLEATWHYTSYTIVGALYVTWSEGNSITGVPYPVSGIREFSNLVLNNCTKYNIYDYVGTGIIRSSNQSLAGGITYVSNSGNLLGFKNVSTGNIFIVTPCNQPDQVAVYQQSIIGAMTAVNESRYGLQNLLQLPNFYYVSNGGNNCTTAVMTYSNFGICADGSLIPVRPRNSSDNGISAIITANLSIPSNWTTSVQVEYLQITSTPIVVDCATYVCNGNPRCKNLLKQYTSACKTIEDALRLSAHLETNDVSSMLTFDSNAFSLANVTSFGDYNLSSVLPQRNIRSSRIAGRSALEDLLFSKVVTSGLGTVDVDYKSCTKGLSIADLACAQYYNGIMVLPGVADAERMAMYTGSLIGGMVLGGLTSAAAIPFSLALQARLNYVALQTDVLQENQKILAASFNKAINNIVASFSSVNDAITQTAEAIHTVTIALNKIQDVVNQQGSALNHLTSQLRHNFQAISNSIQAIYDRLDSIQADQQVDRLITGRLAALNAFVSQVLNKYTEVRGSRRLAQQKINECVKSQSNRYGFCGNGTHIFSIVNSAPDGLLFLHTVLLPTDYKNVKAWSGICVDGIYGYVLRQPNLVLYSDNGVFRVTSRVMFQPRLPVLSDFVQIYNCNVTFVNISRVELHTVIPDYVDVNKTLQEFAQNLPKYVKPNFDLTPFNLTYLNLSSELKQLEAKTASLFQTTVELQGLIDQINSTYVDLKLLNRFENYIKWPWWVWLIISVVFVVLLSLLVFCCLSTGCCGCCNCLTSSMRGCCDCGSTKLPYYEFEKVHVQ |
| 3833 | sp|Q9P0Z9|SOX\_HUMAN | MAAQKDLWDAIVIGAGIQGCFTAYHLAKHRKRILLLEQFFLPHSRGSSHGQSRIIRKAYLEDFYTRMMHECYQIWAQLEHEAGTQLHRQTGLLLLGMKENQELKTIQANLSRQRVEHQCLSSEELKQRFPNIRLPRGEVGLLDNSGGVIYAYKALRALQDAIRQLGGIVRDGEKVVEINPGLLVTVKTTSRSYQAKSLVITAGPWTNQLLRPLGIEMPLQTLRINVCYWREMVPGSYGVSQAFPCFLWLGLCPHHIYGLPTGEYPGLMKVSYHHGNHADPEERDCPTARTDIGDVQILSSFVRDHLPDLKPEPAVIESCMYTNTPDEQFILDRHPKYDNIVIGAGFSGHGFKLAPVVGKILYELSMKLTPSYDLAPFRISRFPSLGKAHL |
| 3834 | sp|Q07890|SOS2\_HUMAN | MQQAPQPYEFFSEENSPKWRGLLVSALRKVQEQVHPTLSANEESLYYIEELIFQLLNKLCMAQPRTVQDVEERVQKTFPHPIDKWAIADAQSAIEKRKRRNPLLLPVDKIHPSLKEVLGYKVDYHVSLYIVAVLEYISADILKLAGNYVFNIRHYEISQQDIKVSMCADKVLMDMFDQDDIGLVSLCEDEPSSSGELNYYDLVRTEIAEERQYLRELNMIIKVFREAFLSDRKLFKPSDIEKIFSNISDIHELTVKLLGLIEDTVEMTDESSPHPLAGSCFEDLAEEQAFDPYETLSQDILSPEFHEHFNKLMARPAVALHFQSIADGFKEAVRYVLPRLMLVPVYHCWHYFELLKQLKACSEEQEDRECLNQAITALMNLQGSMDRIYKQYSPRRRPGDPVCPFYSHQLRSKHLAIKKMNEIQKNIDGWEGKDIGQCCNEFIMEGPLTRIGAKHERHIFLFDGLMISCKPNHGQTRLPGYSSAEYRLKEKFVMRKIQICDKEDTCEHKHAFELVSKDENSIIFAAKSAEEKNNWMAALISLHYRSTLDRMLDSVLLKEENEQPLRLPSPEVYRFVVKDSEENIVFEDNLQSRSGIPIIKGGTVVKLIERLTYHMYADPNFVRTFLTTYRSFCKPQELLSLLIERFEIPEPEPTDADKLAIEKGEQPISADLKRFRKEYVQPVQLRILNVFRHWVEHHFYDFERDLELLERLESFISSVRGKAMKKWVESIAKIIRRKKQAQANGVSHNITFESPPPPIEWHISKPGQFETFDLMTLHPIEIARQLTLLESDLYRKVQPSELVGSVWTKEDKEINSPNLLKMIRHTTNLTLWFEKCIVEAENFEERVAVLSRIIEILQVFQDLNNFNGVLEIVSAVNSVSVYRLDHTFEALQERKRKILDEAVELSQDHFKKYLVKLKSINPPCVPFFGIYLTNILKTEEGNNDFLKKKGKDLINFSKRRKVAEITGEIQQYQNQPYCLRIEPDMRRFFENLNPMGSASEKEFTDYLFNKSLEIEPRNCKQPPRFPRKSTFSLKSPGIRPNTGRHGSTSGTLRGHPTPLEREPCKISFSRIAETELESTVSAPTSPNTPSTPPVSASSDLSVFLDVDLNSSCGSNSIFAPVLLPHSKSFFSSCGSLHKLSEEPLIPPPLPPRKKFDHDASNSKGNMKSDDDPPAIPPRQPPPPKVKPRVPVPTGAFDGPLHSPPPPPPRDPLPDTPPPVPLRPPEHFINCPFNLQPPPLGHLHRDSDWLRDISTCPNSPSTPPSTPSPRVPRRCYVLSSSQNNLAHPPAPPVPPRQNSSPHLPKLPPKTYKRELSHPPLYRLPLLENAETPQ |
| 3835 | sp|P06534|SP0A\_BACSU | MEKIKVCVADDNRELVSLLSEYIEGQEDMEVIGVAYNGQECLSLFKEKDPDVLVLDIIMPHLDGLAVLERLRESDLKKQPNVIMLTAFGQEDVTKKAVDLGASYFILKPFDMENLVGHIRQVSGNASSVTHRAPSSQSSIIRSSQPEPKKKNLDASITSIIHEIGVPAHIKGYLYLREAISMVYNDIELLGSITKVLYPDIAKKFNTTASRVERAIRHAIEVAWSRGNIDSISSLFGYTVSMTKAKPTNSEFIAMVADKLRLEHKAS |
| 3836 | sp|Q96PQ0|SORC2\_HUMAN | MAHRGPSRASKGPGPTARAPSPGAPPPPRSPRSRPLLLLLLLLGACGAAGRSPEPGRLGPHAQLTRVPRSPPAGRAEPGGGEDRQARGTEPGAPGPSPGPAPGPGEDGAPAAGYRRWERAAPLAGVASRAQVSLISTSFVLKGDATHNQAMVHWTGENSSVILILTKYYHADMGKVLESSLWRSSDFGTSYTKLTLQPGVTTVIDNFYICPTNKRKVILVSSSLSDRDQSLFLSADEGATFQKQPIPFFVETLIFHPKEEDKVLAYTKESKLYVSSDLGKKWTLLQERVTKDHVFWSVSGVDADPDLVHVEAQDLGGDFRYVTCAIHNCSEKMLTAPFAGPIDHGSLTVQDDYIFFKATSANQTKYYVSYRRNEFVLMKLPKYALPKDLQIISTDESQVFVAVQEWYQMDTYNLYQSDPRGVRYALVLQDVRSSRQAEESVLIDILEVRGVKGVFLANQKIDGKVMTLITYNKGRDWDYLRPPSMDMNGKPTNCKPPDCHLHLHLRWADNPYVSGTVHTKDTAPGLIMGAGNLGSQLVEYKEEMYITSDCGHTWRQVFEEEHHILYLDHGGVIVAIKDTSIPLKILKFSVDEGLTWSTHNFTSTSVFVDGLLSEPGDETLVMTVFGHISFRSDWELVKVDFRPSFSRQCGEEDYSSWELSNLQGDRCIMGQQRSFRKRKSTSWCIKGRSFTSALTSRVCECRDSDFLCDYGFERSSSSESSTNKCSANFWFNPLSPPDDCALGQTYTSSLGYRKVVSNVCEGGVDMQQSQVQLQCPLTPPRGLQVSIQGEAVAVRPGEDVLFVVRQEQGDVLTTKYQVDLGDGFKAMYVNLTLTGEPIRHRYESPGIYRVSVRAENTAGHDEAVLFVQVNSPLQALYLEVVPVIGLNQEVNLTAVLLPLNPNLTVFYWWIGHSLQPLLSLDNSVTTRFSDTGDVRVTVQAACGNSVLQDSRVLRVLDQFQVMPLQFSKELDAYNPNTPEWREDVGLVVTRLLSKETSVPQELLVTVVKPGLPTLADLYVLLPPPRPTRKRSLSSDKRLAAIQQVLNAQKISFLLRGGVRVLVALRDTGTGAEQLGGGGGYWAVVVLFVIGLFAAGAFILYKFKRKRPGRTVYAQMHNEKEQEMTSPVSHSEDVQGAVQGNHSGVVLSINSREMHSYLVS |
| 3837 | sp|Q07837|SLC31\_HUMAN | MAEDKSKRDSIEMSMKGCQTNNGFVHNEDILEQTPDPGSSTDNLKHSTRGILGSQEPDFKGVQPYAGMPKEVLFQFSGQARYRIPREILFWLTVASVLVLIAATIAIIALSPKCLDWWQEGPMYQIYPRSFKDSNKDGNGDLKGIQDKLDYITALNIKTVWITSFYKSSLKDFRYGVEDFREVDPIFGTMEDFENLVAAIHDKGLKLIIDFIPNHTSDKHIWFQLSRTRTGKYTDYYIWHDCTHENGKTIPPNNWLSVYGNSSWHFDEVRNQCYFHQFMKEQPDLNFRNPDVQEEIKEILRFWLTKGVDGFSLDAVKFLLEAKHLRDEIQVNKTQIPDTVTQYSELYHDFTTTQVGMHDIVRSFRQTMDQYSTEPGRYRFMGTEAYAESIDRTVMYYGLPFIQEADFPFNNYLSMLDTVSGNSVYEVITSWMENMPEGKWPNWMIGGPDSSRLTSRLGNQYVNVMNMLLFTLPGTPITYYGEEIGMGNIVAANLNESYDINTLRSKSPMQWDNSSNAGFSEASNTWLPTNSDYHTVNVDVQKTQPRSALKLYQDLSLLHANELLLNRGWFCHLRNDSHYVVYTRELDGIDRIFIVVLNFGESTLLNLHNMISGLPAKMRIRLSTNSADKGSKVDTSGIFLDKGEGLIFEHNTKNLLHRQTAFRDRCFVSNRACYSSVLNILYTSC |
| 3838 | sp|P0C7P3|SLN14\_HUMAN | MESLKTDTEMPYPEVIVDVGRVIFGEENRKKMTNSCLKRSENSRIIRAICALLNSGGGVIKAEIDDKTYSYQCHGLGQDLETSFQKLLPSGSQKYLDYMQQGHNLLIFVKSWSPDVFSLPLRICSLRSNLYRRDVTSAINLSASSALELLREKGFRAQRGRPRVKKLHPQQVLNRCIQEEEDMRILASEFFKKDKLMYKEKLNFTESTHVEFKRFTTKKVIPRIKEMLPHYVSAFANTQGGYVLIGVDDKSKEVVGCKWEKVNPDLLKKEIENCIEKLPTFHFCCEKPKVNFTTKILNVYQKDVLDGYVCVIQVEPFCCVVFAEAPDSWIMKDNSVTRLTAEQWVVMMLDTQSAPPSLVTDYNSCLISSASSARKSPGYPIKVHKFKEALQRHLFPVTQEEVQFKPESLCKKLFSDHKELEGLMKTLIHPCSQGIVIFSRSWAGDVGFRKEQNVLCDALLIAVNSPVVLYTILIDPNWPGGLEYARNTAHQLKQKLQTVGGYTGKVCIIPRLIHLSSTQSRPGEIPLRYPRSYRLADEEEMEDLLQALVVVSLSSRSLLSDQMGCEFFNLLIMEQSQLLSESLQKTRELFIYCFPGVRKTALAIKIMEKIKDLFHCKPKEILYVCESDSLKDFVTQQTTCQAVTRKTFMQGEFLKIKHIVMDETENFCSKYGNWYMKAKNITHPKAKGTGSENLHHGILWLFLDPFQIHHADVNGLPPPSAQFPRKTITSGIHCALEIAKVMKEEMKRIKENPPSNMSPDTLALFSETAYEEATCAQALPGVCETKTNLTTEQIANYVARKCHSLFQCGYLPKDIAILCRRGEDRGRYRLALLKAMELIETHRPSEVVFSPATGVWGSHIVLDSIQQFSGLERTVVFGLSPECDQSEEFHKLCFASRAIKHLYLLYEKRAAY |
| 3839 | sp|Q39193|SRK2I\_ARATH | MDRAPVTTGPLDMPIMHDSDRYDFVKDIGSGNFGVARLMRDKLTKELVAVKYIERGDKIDENVQREIINHRSLRHPNIVRFKEVILTPTHLAIIMEYASGGELYERICNAGRFSEDEARFFFQQLLSGVSYCHSMQICHRDLKLENTLLDGSPAPRLKICDFGYSKSSVLHSQPKSTVGTPAYIAPEVLLRQEYDGKIADVWSCGVTLYVMLVGAYPFEDPEEPRDYRKTIQRILSVKYSIPDDIRISPECCHLISRIFVADPATRISIPEIKTHSWFLKNLPADLMNESNTGSQFQEPEQPMQSLDTIMQIISEATIPAVRNRCLDDFMTDNLDLDDDMDDFDSESEIDIDSSGEIVYAL |
| 3840 | sp|Q86WV1|SKAP1\_HUMAN | MQAAALPEEIRWLLEDAEEFLAEGLRNENLSAVARDHRDHILRGFQQIKARYYWDFQPQGGDIGQDSSDDNHSGTLGLSLTSDAPFLSDYQDEGMEDIVKGAQELDNVIKQGYLEKKSKDHSFFGSEWQKRWCVVSRGLFYYYANEKSKQPKGTFLIKGYGVRMAPHLRRDSKKESCFELTSQDRRSYEFTATSPAEARDWVDQISFLLKDLSSLTIPYEEDEEEEEKEETYDDIDGFDSPSCGSQCRPTILPGSVGIKEPTEEKEEEDIYEVLPDEEHDLEEDESGTRRKGVDYASYYQGLWDCHGDQPDELSFQRGDLIRILSKEYNMYGWWVGELNSLVGIVPKEYLTTAFEVEER |
| 3841 | sp|O81235|SODM1\_ARATH | MAIRCVASRKTLAGLKETSSRLLRIRGIQTFTLPDLPYDYGALEPAISGEIMQIHHQKHHQAYVTNYNNALEQLDQAVNKGDASTVVKLQSAIKFNGGGHVNHSIFWKNLAPSSEGGGEPPKGSLGSAIDAHFGSLEGLVKKMSAEGAAVQGSGWVWLGLDKELKKLVVDTTANQDPLVTKGGSLVPLVGIDVWEHAYYLQYKNVRPEYLKNVWKVINWKYASEVYEKENN |
| 3842 | sp|P07214|SPRC\_MOUSE | MRAWIFFLLCLAGRALAAPQQTEVAEEIVEEETVVEETGVPVGANPVQVEMGEFEDGAEETVEEVVADNPCQNHHCKHGKVCELDESNTPMCVCQDPTSCPAPIGEFEKVCSNDNKTFDSSCHFFATKCTLEGTKKGHKLHLDYIGPCKYIAPCLDSELTEFPLRMRDWLKNVLVTLYERDEGNNLLTEKQKLRVKKIHENEKRLEAGDHPVELLARDFEKNYNMYIFPVHWQFGQLDQHPIDGYLSHTELAPLRAPLIPMEHCTTRFFETCDLDNDKYIALEEWAGCFGIKEQDINKDLVI |
| 3843 | sp|Q99619|SPSB2\_HUMAN | MGQTALAGGSSSTPTPQALYPDLSCPEGLEELLSAPPPDLGAQRRHGWNPKDCSENIEVKEGGLYFERRPVAQSTDGARGKRGYSRGLHAWEISWPLEQRGTHAVVGVATALAPLQTDHYAALLGSNSESWGWDIGRGKLYHQSKGPGAPQYPAGTQGEQLEVPERLLVVLDMEEGTLGYAIGGTYLGPAFRGLKGRTLYPAVSAVWGQCQVRIRYLGERRAEPHSLLHLSRLCVRHNLGDTRLGQVSALPLPPAMKRYLLYQ |
| 3844 | sp|P32140|SQUS\_ECOLI | MKWFNTLSHNRWLEQETDRIFDFGKNSVVPTGFGWLGNKGQIKEEMGTHLWITARMLHVYSVAAAMGRPGAYSLVDHGIKAMNGALRDKKYGGWYACVNDEGVVDASKQGYQHFFALLGAASAVTTGHPEARKLLDYTIEIIEKYFWSEEEQMCLESWDEAFSKTEEYRGGNANMHAVEAFLIVYDVTHDKKWLDRAIRVASVIIHDVARNNHYRVNEHFDTQWNPLPDYNKDNPAHRFRAFGGTPGHWIEWGRLMLHIHAALEARCEQPPAWLLEDAKGLFNATVRDAWAPDGADGIVYTVDWEGKPVVRERVRWPIVEAMGTAYALYTVTGDRQYETWYQTWWEYCIKYLMDYENGSWWQELDADNKVTTKVWDGKQDIYHLLHCLVIPRIPLAPGMAPAVAAGLLDINAK |
| 3845 | sp|Q5VSL9|STRP1\_HUMAN | MEPAVGGPGPLIVNNKQPQPPPPPPPAAAQPPPGAPRAAAGLLPGGKAREFNRNQRKDSEGYSESPDLEFEYADTDKWAAELSELYSYTEGPEFLMNRKCFEEDFRIHVTDKKWTELDTNQHRTHAMRLLDGLEVTAREKRLKVARAILYVAQGTFGECSSEAEVQSWMRYNIFLLLEVGTFNALVELLNMEIDNSAACSSAVRKPAISLADSTDLRVLLNIMYLIVETVHQECEGDKAEWRTMRQTFRAELGSPLYNNEPFAIMLFGMVTKFCSGHAPHFPMKKVLLLLWKTVLCTLGGFEELQSMKAEKRSILGLPPLPEDSIKVIRNMRAASPPASASDLIEQQQKRGRREHKALIKQDNLDAFNERDPYKADDSREEEEENDDDNSLEGETFPLERDEVMPPPLQHPQTDRLTCPKGLPWAPKVREKDIEMFLESSRSKFIGYTLGSDTNTVVGLPRPIHESIKTLKQHKYTSIAEVQAQMEEEYLRSPLSGGEEEVEQVPAETLYQGLLPSLPQYMIALLKILLAAAPTSKAKTDSINILADVLPEEMPTTVLQSMKLGVDVNRHKEVIVKAISAVLLLLLKHFKLNHVYQFEYMAQHLVFANCIPLILKFFNQNIMSYITAKNSISVLDYPHCVVHELPELTAESLEAGDSNQFCWRNLFSCINLLRILNKLTKWKHSRTMMLVVFKSAPILKRALKVKQAMMQLYVLKLLKVQTKYLGRQWRKSNMKTMSAIYQKVRHRLNDDWAYGNDLDARPWDFQAEECALRANIERFNARRYDRAHSNPDFLPVDNCLQSVLGQRVDLPEDFQMNYDLWLEREVFSKPISWEELLQ |
| 3846 | sp|Q9BYW2|SETD2\_HUMAN | MKQLQPQPPPKMGDFYDPEHPTPEEEENEAKIENVQKTGFIKGPMFKGVASSRFLPKGTKTKVNLEEQGRQKVSFSFSLTKKTLQNRFLTALGNEKQSDTPNPPAVPLQVDSTPKMKMEIGDTLSTAEESSPPKSRVELGKIHFKKHLLHVTSRPLLATTTAVASPPTHAAPLPAVIAESTTVDSPPSSPPPPPPPAQATTLSSPAPVTEPVALPHTPITVLMAAPVPLPVDVAVRSLKEPPIIIVPESLEADTKQDTISNSLEEHVTQILNEQADISSKKEDSHIGKDEEIPDSSKISLSCKKTGSKKKSSQSEGIFLGSESDEDSVRTSSSQRSHDLKFSASIEKERDFKKSSAPLKSEDLGKPSRSKTDRDDKYFSYSKLERDTRYVSSRCRSERERRRSRSHSRSERGSRTNLSYSRSERSHYYDSDRRYHRSSPYRERTRYSRPYTDNRARESSDSEEEYKKTYSRRTSSHSSSYRDLRTSSYSKSDRDCKTETSYLEMERRGKYSSKLERESKRTSENEAIKRCCSPPNELGFRRGSSYSKHDSSASRYKSTLSKPIPKSDKFKNSFCCTELNEEIKQSHSFSLQTPCSKGSELRMINKNPEREKAGSPAPSNRLNDSPTLKKLDELPIFKSEFITHDSHDSIKELDSLSKVKNDQLRSFCPIELNINGSPGAESDLATFCTSKTDAVLMTSDDSVTGSELSPLVKACMLSSNGFQNISRCKEKDLDDTCMLHKKSESPFRETEPLVSPHQDKLMSMPVMTVDYSKTVVKEPVDTRVSCCKTKDSDIYCTLNDSNPSLCNSEAENIEPSVMKISSNSFMNVHLESKPVICDSRNLTDHSKFACEEYKQSIGSTSSASVNHFDDLYQPIGSSGIASSLQSLPPGIKVDSLTLLKCGENTSPVLDAVLKSKKSSEFLKHAGKETIVEVGSDLPDSGKGFASRENRRNNGLSGKCLQEAQEEGNSILPERRGRPEISLDERGEGGHVHTSDDSEVVFSSCDLNLTMEDSDGVTYALKCDSSGHAPEIVSTVHEDYSGSSESSNDESDSEDTDSDDSSIPRNRLQSVVVVPKNSTLPMEETSPCSSRSSQSYRHYSDHWEDERLESRRHLYEEKFESIASKACPQTDKFFLHKGTEKNPEISFTQSSRKQIDNRLPELSHPQSDGVDSTSHTDVKSDPLGHPNSEETVKAKIPSRQQEELPIYSSDFEDVPNKSWQQTTFQNRPDSRLGKTELSFSSSCEIPHVDGLHSSEELRNLGWDFSQEKPSTTYQQPDSSYGACGGHKYQQNAEQYGGTRDYWQGNGYWDPRSGRPPGTGVVYDRTQGQVPDSLTDDREEEENWDQQDGSHFSDQSDKFLLSLQKDKGSVQAPEISSNSIKDTLAVNEKKDFSKNLEKNDIKDRGPLKKRRQEIESDSESDGELQDRKKVRVEVEQGETSVPPGSALVGPSCVMDDFRDPQRWKECAKQGKMPCYFDLIEENVYLTERKKNKSHRDIKRMQCECTPLSKDERAQGEIACGEDCLNRLLMIECSSRCPNGDYCSNRRFQRKQHADVEVILTEKKGWGLRAAKDLPSNTFVLEYCGEVLDHKEFKARVKEYARNKNIHYYFMALKNDEIIDATQKGNCSRFMNHSCEPNCETQKWTVNGQLRVGFFTTKLVPSGSELTFDYQFQRYGKEAQKCFCGSANCRGYLGGENRVSIRAAGGKMKKERSRKKDSVDGELEALMENGEGLSDKNQVLSLSRLMVRIETLEQKLTCLELIQNTHSQSCLKSFLERHGLSLLWIWMAELGDGRESNQKLQEEIIKTLEHLPIPTKNMLEESKVLPIIQRWSQTKTAVPPLSEGDGYSSENTSRAHTPLNTPDPSTKLSTEADTDTPKKLMFRRLKIISENSMDSAISDATSELEGKDGKEDLDQLENVPVEEEEELQSQQLLPQQLPECKVDSETNIEASKLPTSEPEADAEIEPKESNGTKLEEPINEETPSQDEEEGVSDVESERSQEQPDKTVDISDLATKLLDSWKDLKEVYRIPKKSQTEKENTTTERGRDAVGFRDQTPAPKTPNRSRERDPDKQTQNKEKRKRRSSLSPPSSAYERGTKRPDDRYDTPTSKKKVRIKDRNKLSTEERRKLFEQEVAQREAQKQQQQMQNLGMTSPLPYDSLGYNAPHHPFAGYPPGYPMQAYVDPSNPNAGKVLLPTPSMDPVCSPAPYDHAQPLVGHSTEPLSAPPPVPVVPHVAAPVEVSSSQYVAQSDGVVHQDSSVAVLPVPAPGPVQGQNYSVWDSNQQSVSVQQQYSPAQSQATIYYQGQTCPTVYGVTSPYSQTTPPIVQSYAQPSLQYIQGQQIFTAHPQGVVVQPAAAVTTIVAPGQPQPLQPSEMVVTNNLLDLPPPSPPKPKTIVLPPNWKTARDPEGKIYYYHVITRQTQWDPPTWESPGDDASLEHEAEMDLGTPTYDENPMKASKKPKTAEADTSSELAKKSKEVFRKEMSQFIVQCLNPYRKPDCKVGRITTTEDFKHLARKLTHGVMNKELKYCKNPEDLECNENVKHKTKEYIKKYMQKFGAVYKPKEDTELE |
| 3847 | sp|P36428|SYA\_ARATH | MRLVKAASLLISSTKPPSRVFYSSHLRRPFFSHFRFSSSSSTSSSVAVMPGSEPSETQWPAKRVRDTYVDFFRGKGHKFWPSSPVVPHNDPTLLFANAGMNQYKPIFLGTADPNTELSKLSRACNTQKCIRAGGKHNDLDDVGKDTYHHTFFEMLGNWSFGDYFKKEAIEWAWELLTKVYGLPTDRIYATYFGGDEKAGLQPDNEARDIWLKVLPSGRVLPFGCKDNFWEMGDTGPCGPCTEIHYDRIGNRDAASLVNNDDPTCLEIWNLVFIQFNRESDGSLKPLPAKHVDTGMGFERLTSVLQNKMSNYDTDVFMPIFDDIQKATGARPYSGKVGPEDVDRVDMAYRVVADHIRTLSFAIADGSRPGNEGREYVLRRILRRAVRYGKEILKAEEGFFNGLVSSVIRVMGDVFTELKEHEKKITDIIKEEEASFCKTLAKGIEKFRKAGQAVQGNTLSGDDAFILWDTYGFPLDLTQLMAEERGLLVDVDGFNKAMEEARERSRSAQNKQAGGAIVMDADATSTLHKAGVSATDDSFKYIWFQDHESELKAIYTGSTFLESSAASDNVGLVLGSTSFYAEQGGQIFDTGLIEGSFGTFNVCNVQIFGGFVLHIGYLSKETGEVSVGDKVICKVDYERRKLIAPNHTCTHMLNYALKEVLGDHIDQKGSIVLPEKLRFDFSHGKPVDPEDLRRIESIVNKQIKDELDVFSKEAVLSEAKRIKGLRAVFGEVYPDPVRVVSIGRKVEDLLADPENNEWSLLSSEFCGGTHITNTREAKAFALLSEEGIAKGIRRVTAVTTECAFDALNAASLLEREVEDASRAEGSALEKKVSALKSRVDAAIIPAAKKADIRTKIASLQNEVRKAQKKIAEQNLKKSVKLATEAAESAASDGKTFCIIQLDVGLDAAAVREAVSKVMEKKGMSIMVFSTDESTNKAVVCAGVPEKSDQFKPLDVTEWLTTALGPLKGRCGKGKGGLASGQGTDASQVQAALDMASSFASMKLN |
| 3848 | sp|O16000|STX1A\_CAEEL | MTKDRLSALKAAQSEDEQDDDMHMDTGNAQYMEEFFEQVEEIRGSVDIIANNVEEVKKKHSAILSNPVNDQKTKEELDELMAVIKRAANKVRGKLKLIENAIDHDEQGAGNADLRIRKTQHSTLSRRFVEVMTDYNKTQTDYRERCKGRIQRQLDIAGKQVGDEDLEEMIESGNPGVFTQGIITDTQQAKQTLADIEARHNDIMKLESSIRELHDMFMDMAMLVESQGEMVDRIEYNVEHAKEFVDRAVADTKKAVQYQSKARRKKICILVTGVILITGLIIFILFYAKVL |
| 3849 | sp|O75558|STX11\_HUMAN | MKDRLAELLDLSKQYDQQFPDGDDEFDSPHEDIVFETDHILESLYRDIRDIQDENQLLVADVKRLGKQNARFLTSMRRLSSIKRDTNSIAKAIKARGEVIHCKLRAMKELSEAAEAQHGPHSAVARISRAQYNALTLTFQRAMHDYNQAEMKQRDNCKIRIQRQLEIMGKEVSGDQIEDMFEQGKWDVFSENLLADVKGARAALNEIESRHRELLRLESRIRDVHELFLQMAVLVEKQADTLNVIELNVQKTVDYTGQAKAQVRKAVQYEEKNPCRTLCCFCCPCLK |
| 3850 | sp|Q8TCJ2|STT3B\_HUMAN | MAEPSAPESKHKSSLNSSPWSGLMALGNSRHGHHGPGAQCAHKAAGGAAPPKPAPAGLSGGLSQPAGWQSLLSFTILFLAWLAGFSSRLFAVIRFESIIHEFDPWFNYRSTHHLASHGFYEFLNWFDERAWYPLGRIVGGTVYPGLMITAGLIHWILNTLNITVHIRDVCVFLAPTFSGLTSISTFLLTRELWNQGAGLLAACFIAIVPGYISRSVAGSFDNEGIAIFALQFTYYLWVKSVKTGSVFWTMCCCLSYFYMVSAWGGYVFIINLIPLHVFVLLLMQRYSKRVYIAYSTFYIVGLILSMQIPFVGFQPIRTSEHMAAAGVFALLQAYAFLQYLRDRLTKQEFQTLFFLGVSLAAGAVFLSVIYLTYTGYIAPWSGRFYSLWDTGYAKIHIPIIASVSEHQPTTWVSFFFDLHILVCTFPAGLWFCIKNINDERVFVALYAISAVYFAGVMVRLMLTLTPVVCMLSAIAFSNVFEHYLGDDMKRENPPVEDSSDEDDKRNQGNLYDKAGKVRKHATEQEKTEEGLGPNIKSIVTMLMLMLLMMFAVHCTWVTSNAYSSPSVVLASYNHDGTRNILDDFREAYFWLRQNTDEHARVMSWWDYGYQIAGMANRTTLVDNNTWNNSHIALVGKAMSSNETAAYKIMRTLDVDYVLVIFGGVIGYSGDDINKFLWMVRIAEGEHPKDIRESDYFTPQGEFRVDKAGSPTLLNCLMYKMSYYRFGEMQLDFRTPPGFDRTRNAEIGNKDIKFKHLEEAFTSEHWLVRIYKVKAPDNRETLDHKPRVTNIFPKQKYLSKKTTKRKRGYIKNKLVFKKGKKISKKTV |
| 3851 | sp|Q9P2P6|STAR9\_HUMAN | MANVQVAVRVRPLSKRETKEGGRIIVEVDGKVAKIRNLKVDNRPDGFGDSREKVMAFGFDYCYWSVNPEDPQYASQDVVFQDLGMEVLSGVAKGYNICLFAYGQTGSGKTYTMLGTPASVGLTPRICEGLFVREKDCASLPSSCRIKVSFLEIYNERVRDLLKQSGQKKSYTLRVREHPEMGPYVQGLSQHVVTNYKQVIQLLEEGIANRITAATHVHEASSRSHAIFTIHYTQAILENNLPSEMASKINLVDLAGSERADPSYCKDRIAEGANINKSLVTLGIVISTLAQNSQVFSSCQSLNSSVSNGGDSGILSSPSGTSSGGAPSRRQSYIPYRDSVLTWLLKDSLGGNSKTIMVATVSPAHTSYSETMSTLRYASSAKNIINKPRVNEDANLKLIRELREEIERLKALLLSFELRNFSSLSDENLKELVLQNELKIDQLTKDWTQKWNDWQALMEHYSVDINRRRAGVVIDSSLPHLMALEDDVLSTGVVLYHLKEGTTKIGRIDSDQEQDIVLQGQWIERDHCTITSACGVVVLRPARGARCTVNGREVTASCRLTQGAVITLGKAQKFRFNHPAEAAVLRQRRQVGEAAAGRGSLEWLDLDGDLAASRLGLSPLLWKERRALEEQCDEDHQTPRDGETSHRAQIQQQQSYVEDLRHQILAEEIRAAKELEFDQAWISQQIKENQQCLLREETWLASLQQQQQEDQVAEKELEASVALDAWLQTDPEIQPSPFVQSQKRVVHLQLLRRHTLRAAERNVRRKKVSFQLERIIKKQRLLEAQKRLEKLTTLCWLQDDSTQEPPYQVLSPDATVPRPPCRSKLTSCSSLSPQRLCSKHMPQLHSIFLSWDPSTTLPPRPDPTHQTSEKTSSEEHLPQAASYPARTGCLRKNGLHSSGHGQPCTARAALARKGASAPDACLTMSPNSVGIQEMEMGVKQPHQMVSQGLASLRKSANKLKPRHEPKIFTSTTQTRGAKGLADPSHTQAGWRKEGNLGTHKAAKGASCNSLYPHGPRQTAGHGKAVKTFWTEYKPPSPSRASKRHQRVLATRVRNITKKSSHLPLGSPLKRQQNTRDPDTMVPLTDFSPVMDHSREKDNDLSDTDSNYSLDSLSCVYAKALIEPLKPEERKWDFPEPENSESDDSQLSEDSLAEKRYQSPKNRLGGNRPTNNRGQPRTRTRASVRGFTAASDSDLLAQTHRSFSLDSLIDAEEELGEDQQEEPFPGSADEIPTETFWHLEDSSLPVMDQEAICRLGPINYRTAARLDAVLPMSSSFYLDPQFQPHCELQPHCELQPHCELQPHCEQAESQVEPSYSEQADSLQGMQLSRESPLMSMDSWFSCDSKINPSSPPGIVGSLCPSPDMQEFHSCKGERPGYWPNTEELKPSDAETVLPYSSKLHQGSTELLCSARDEHTASAADTSRLSLWGIQRLIQPGADGTFQGRCIPDMTQQGSSEASHNSSVSNVLAASATTLTHVGSTHERDWSALQQKYLLELSCPVLEAIGAPKPAYPYLEEDSGSLAQASSKGGDTLLPVGPRVSSNLNLNNFPVHLSRIRRLRAEKEQDSLNAKLEGVSDFFSTSEKEASYDETYSADLESLSASRSTNAQVFATENAIPDSMTEACEVKQNNLEECLQSCRKPGLMTSSDEDFFQKNACHSNVTTATKADHWSQGWAPLRKNSAVQPGQLSPDSHYPLEEEKTDCQESSKEAVRRHINVSFALPSGPELYLHSAPWNPLSSSLQPPLLETFYVTKSRDALTETALEIPACREVRVPSPPPREAWGFGHNHQALQGAYLKNNLPVLLQNQNSKIASSQQVTAEIPVDLNTREVIRESGKCPGNITEESHDSVYSSVTQNRHFLPSTSTKVCEFENQVVILNKKHSFPALEGGEVTAQSCCGASSDSTESGKSLLFRESEAREEEELDQNTVLRQTINVSLEKDMPGESAVSLKSRSVDRRVSSPVMVAQGGGPTPKWEGKNETGLLEKGLRPKDSSEEFKLPGTKPAYERFQLVACPQERNPSECKSQEMLNPNREPSGKKQNKRVNNTDEMARLIRSVMQLENGILEIESKQNKQVHASHTPGTDKELVFQDQKEQEKTDHAFRPDSSGNPLPSKDQPSSPRQTDDTVFRDSEAGAMEVNSIGNHPQVQKITPNPFRSREGVRESEPVREHTHPAGSDRPARDICDSLGKHTTCREFTNTSLHPQRMKALARALPLQPRLERSSKNNGQFVKASASLKGQPWGLGSLEELETVKGFQESQVAEHVSSSNQEEPKAQGKVEEMPMQRGGSLQEENKVTQKFPSLSQLCRDTFFRQETVSPLLSRTEFCTAPLHQDLSNTLPLNSPRWPRRCLHVPVALGISSLDCVLDLTMLKIHNSPLVTGVEHQDQSTETRSHSPEGNVRGRSSEAHTAWCGSVRSMAMGSHSQSGVPESIPLGTEDRISASTSPQDHGKDLRITLLGFSTSEDFASEAEVAVQKEIRVSSLNKVSSQPEKRVSFSLEEDSDQASKPRQKAEKETEDVGLTSGVSLAPVSLPRVPSPEPRLLEPSDHASMCLAILEEIRQAKAQRKQLHDFVARGTVLSYCETLLEPECSSRVAGRPQCKQIDQSSSDQTRNEGEAPGFHVASLSAEAGQIDLLPDERKVQATSLSADSFESLPNTETDREPWDPVQAFSHAAPAQDRKRRTGELRQFAGASEPFICHSSSSEIIEKKKDATRTPSSADPLAPDSPRSSAPVEEVRRVVSKKVVAALPSQAPYDDPRVTLHELSQSVPQETAEGIPPGSQDSSPEHQEPRTLDTTYGEVSDNLLVTAQGEKTAHFESQSVTCDVQNSTSASGPKQDHVQCPEASTGFEEGRASPKQDTILPGALTRVALEAPTQQCVQCKESVGSGLTEVCRAGSKHSRPIPLPDQRPSANPGGIGEEAPCRHPREALDGPVFSRNPEGSRTLSPSRGKESRTLPCRQPCSSQPVATHAYSSHSSTLLCFRDGDLGKEPFKAAPHTIHPPCVVPSRAYEMDETGEISRGPDVHLTHGLEPKDVNREFRLTESSTCEPSTVAAVLSRAQGCRSPSAPDVRTGSFSHSATDGSVGLIGVPEKKVAEKQASTELEAASFPAGMYSEPLRQFRDSSVGDQNAQVCQTNPEPPATTQGPHTLDLSEGSAESKLVVEPQHECLENTTRCFLEKPQFSTELRDHNRLDSQAKFVARLKHTCSPQEDSPWQEEEQHRDQASGGGEGFAQGVNPLPDEDGLDGCQILDAGREEVAVAKPPVSKILSQGFKDPATVSLRQNETPQPAAQRSGHLYTGREQPAPNHRGSLPVTTIFSGPKHSRSSPTPQFSVVGSSRSLQELNLSVEPPSPTDEDTQGPNRLWNPHLRGYSSGKSVARTSLQAEDSNQKASSRLDDGTTDHRHLKPATPPYPMPSTLSHMPTPDFTTSWMSGTLEQAQQGKREKLGVQVRPENWCSQMDKGMLHFGSSDISPYALPWRPEEPARISWKQYMSGSAVDVSCSQKPQGLTLSNVARCSSMDNGLEDQNSPFHSHLSTYANICDLSTTHSSTENAQGSNEAWEVFRGSSSIALGDPHIPTSPEGVAPTSGHDRRPQFRGPSGEADCLRSKPPLAKGSAAGPVDEIMLLYPSEAGCPVGQTRTNTFEQGTQTLGSRRHWSSTDISFAQPEASAVSAFDLASWTSMHNLSLHLSQLLHSTSELLGSLSQPDVARREQNTKRDIPDKAPQALMMDGSTQTTVDEGSQTDLTLPTLCLQTSEAEPQGANVILEGLGSDTSTVSQEEGDVPGVPQKREAEETAQKMAQLLYLQEESTPYKPQSPSIPSSHLRFQKAPVGQHLPSVSPSVSDAFLPPSSQPEESYCLVVSSPSPSSPHSPGLFPSTSEYPGDSRVQKKLGPTSALFVDRASSPILTLSASTQEPGLSPGSLTLSAPSTHPVEGHQKLDSSPDPVDAPRTPMDNYSQTTDELGGSQRGRSSLQRSNGRSFLELHSPHSPQQSPKLQFSFLGQHPQQLQPRTTIGVQSRLLPPPLRHRSQRLGNSFVPEKVASPEHCPLSGREPSQWQSRTENGGESSASPGEPQRTLDRPSSWGGLQHLSPCPVSELTDTAGLRGSALGLPQACQPEELLCFSCQMCMAPEHQHHSLRDLPVHNKFSNWCGVQKGSPGGLDMTEEELGASGDLSSEKQEQSPPQPPNDHSQDSEWSKREQIPLQVGAQNLSLSVELTEAKLHHGFGEADALLQVLQSGTGEALAADEPVTSTWKELYARQKKAIETLRRERAERLGNFCRTRSLSPQKQLSLLPNKDLFIWDLDLPSRRREYLQQLRKDVVETTRSPESVSRSAHTPSDIELMLQDYQQAHEEAKVEIARARDQLRERTEQEKLRIHQKIISQLLKEEDKLHTLANSSSLCTSSNGSLSSGMTSGYNSSPALSGQLQFPENMGHTNLPDSRDVWIGDERGGHSAVRKNSAYSHRASLGSCCCSPSSLSSLGTCFSSSYQDLAKHVVDTSMADVMAACSDNLHNLFSCQATAGWNYQGEEQAVQLYYKVFSPTRHGFLGAGVVSQPLSRVWAAVSDPTVWPLYYKPIQTARLHQRVTNSISLVYLVCNTTLCALKQPRDFCCVCVEAKEGHLSVMAAQSVYDTSMPRPSRKMVRGEILPSAWILQPITVEGKEVTRVIYLAQVELGAPGFPPQLLSSFIKRQPLVIARLASFLGR |
| 3852 | sp|P21818|STMN2\_RAT | MAKTAMAYKEKMKELSMLSLICSCFYPEPRNINIYTYDDMEVKQINKRASGQAFELILKPPSPISEAPRTLASPKKKDLSLEEIQKKLEAAEGRRKSQEAQVLKQLAEKREHEREVLQKALEENNNFSKMAEEKLILKMEQIKENREANLAAIIERLQEKERHAAEVRRNKELQVELSG |
| 3853 | sp|Q12789|TF3C1\_HUMAN | MDALESLLDEVALEGLDGLCLPALWSRLETRVPPFPLPLEPCTQEFLWRALATHPGISFYEEPRERPDLQLQDRYEEIDLETGILESRRDPVALEDVYPIHMILENKDGIQGSCRYFKERKNITNDIRTKSLQPRCTMVEAFDRWGKKLIIVASQAMRYRALIGQEGDPDLKLPDFSYCILERLGRSRWQGELQRDLHTTAFKVDAGKLHYHRKILNKNGLITMQSHVIRLPTGAQQHSILLLLNRFHVDRRSKYDILMEKLSVMLSTRTNHIETLGKLREELGLCERTFKRLYQYMLNAGLAKVVSLRLQEIHPECGPCKTKKGTDVMVRCLKLLKEFKRNDHDDDEDEEVISKTVPPVDIVFERDMLTQTYDLIERRGTKGISQAEIRVAMNVGKLEARMLCRLLQRFKVVKGFMEDEGRQRTTKYISCVFAEESDLSRQYQREKARSELLTTVSLASMQEESLLPEGEDTFLSESDSEEERSSSKRRGRGSQKDTRASANLRPKTQPHHSTPTKGGWKVVNLHPLKKQPPSFPGAAEERACQSLASRDSLLDTSSVSEPNVSFVSHCADSNSGDIAVIEEVRMENPKESSSSLKTGRHSSGQDKPHETYRLLKRRNLIIEAVTNLRLIESLFTIQKMIMDQEKQEGVSTKCCKKSIVRLVRNLSEEGLLRLYRTTVIQDGIKKKVDLVVHPSMDQNDPLVRSAIEQVRFRISNSSTANRVKTSQPPVPQGEAEEDSQGKEGPSGSGDSQLSASSRSESGRMKKSDNKMGITPLRNYHPIVVPGLGRSLGFLPKMPRLRVVHMFLWYLIYGHPASNTVEKPSFISERRTIKQESGRAGVRPSSSGSAWEACSEAPSKGSQDGVTWEAEVELATETVYVDDASWMRYIPPIPVHRDFGFGWALVSDILLCLPLSIFIQIVQVSYKVDNLEEFLNDPLKKHTLIRFLPRPIRQQLLYKRRYIFSVVENLQRLCYMGLLQFGPTEKFQDKDQVFIFLKKNAVIVDTTICDPHYNLARSSRPFERRLYVLNSMQDVENYWFDLQCVCLNTPLGVVRCPRVRKNSSTDQGSDEEGSLQKEQESAMDKHNLERKCAMLEYTTGSREVVDEGLIPGDGLGAAGLDSSFYGHLKRNWIWTSYIINQAKKENTAAENGLTVRLQTFLSKRPMPLSARGNSRLNIWGEARVGSELCAGWEEQFEVDREPSLDRNRRVRGGKSQKRKRLKKDPGKKIKRKKKGEFPGEKSKRLRYHDEADQSALQRMTRLRVTWSMQEDGLLVLCRIASNVLNTKVKGPFVTWQVVRDILHATFEESLDKTSHSVGRRARYIVKNPQAYLNYKVCLAEVYQDKALVGDFMNRRGDYDDPKVCANEFKEFVEKLKEKFSSALRNSNLEIPDTLQELFARYRVLAIGDEKDQTRKEDELNSVDDIHFLVLQNLIQSTLALSDSQMKSYQSFQTFRLYREYKDHVLVKAFMECQKRSLVNRRRVNHTLGPKKNRALPFVPMSYQLSQTYYRIFTWRFPSTICTESFQFLDRMRAAGKLDQPDRFSFKDQDNNEPTNDMVAFSLDGPGGNCVAVLTLFSLGLISVDVRIPEQIIVVDSSMVENEVIKSLGKDGSLEDDEDEEDDLDEGVGGKRRSMEVKPAQASHTNYLLMRGYYSPGIVSTRNLNPNDSIVVNSCQMKFQLRCTPVPARLRPAAAPLEELTMGTSCLPDTFTKLINPQENTCSLEEFVLQLELSGYSPEDLTAALEILEAIIATGCFGIDKEELRRRFSALEKAGGGRTRTFADCIQALLEQHQVLEVGGNTARLVAMGSAWPWLLHSVRLKDREDADIQREDPQARPLEGSSSEDSPPEGQAPPSHSPRGTKRRASWASENGETDAEGTQMTPAKRPALQDSNLAPSLGPGAEDGAEAQAPSPPPALEDTAAAGAAQEDQEGVGEFSSPGQEQLSGQAQPPEGSEDPRGFTESFGAANISQAARERDCESVCFIGRPWRVVDGHLNLPVCKGMMEAMLYHIMTRPGIPESSLLRHYQGVLQPVAVLELLQGLESLGCIRKRWLRKPRPVSLFSTPVVEEVEVPSSLDESPMAFYEPTLDCTLRLGRVFPHEVNWNKWIHL |
| 3854 | sp|P17312|TERL\_BPT4 | MEQPINVLNDFHPLNEAGKILIKHPSLAERKDEDGIHWIKSQWDGKWYPEKFSDYLRLHKIVKIPNNSDKPELFQTYKDKNNKRSRYMGLPNLKRANIKTQWTREMVEEWKKCRDDIVYFAETYCAITHIDYGVIKVQLRDYQRDMLKIMSSKRMTVCNLSRQLGKTTVVAIFLAHFVCFNKDKAVGILAHKGSMSAEVLDRTKQAIELLPDFLQPGIVEWNKGSIELDNGSSIGAYASSPDAVRGNSFAMIYIDECAFIPNFHDSWLAIQPVISSGRRSKIIITTTPNGLNHFYDIWTAAVEGKSGFEPYTAIWNSVKERLYNDEDIFDDGWQWSIQTINGSSLAQFRQEHTAAFEGTSGTLISGMKLAVMDFIEVTPDDHGFHQFKKPEPDRKYIATLDCSEGRGQDYHALHIIDVTDDVWEQVGVLHSNTISHLILPDIVMRYLVEYNECPVYIELNSTGVSVAKSLYMDLEYEGVICDSYTDLGMKQTKRTKAVGCSTLKDLIEKDKLIIHHRATIQEFRTFSEKGVSWAAEEGYHDDLVMSLVIFGWLSTQSKFIDYADKDDMRLASEVFSKELQDMSDDYAPVIFVDSVHSAEYVPVSHGMSMV |
| 3855 | sp|Q8IXH6|T53I2\_HUMAN | MFQRLSSLFFSTPSPPEDPDCPRAFVSEEDEVDGWLIIDLPDSYAAPPSPGAAPAPAGRPPPAPSLMDESWFVTPPACFTAEGPGLGPARLQSSPLEDLLIEHPSMSVYVTGSTIVLEPGSPSPLPDAALPDGDLSEGELTPARREPRAARHAAPLPARAALLEKAGQVRRLQRARQRAERHALSAKAVQRQNRARESRPRRSKNQSSFIYQPCQRQFNY |
| 3856 | sp|Q15554|TERF2\_HUMAN | MAAGAGTAGPASGPGVVRDPAASQPRKRPGREGGEGARRSDTMAGGGGSSDGSGRAAGRRASRSSGRARRGRHEPGLGGPAERGAGEARLEEAVNRWVLKFYFHEALRAFRGSRYGDFRQIRDIMQALLVRPLGKEHTVSRLLRVMQCLSRIEEGENLDCSFDMEAELTPLESAINVLEMIKTEFTLTEAVVESSRKLVKEAAVIICIKNKEFEKASKILKKHMSKDPTTQKLRNDLLNIIREKNLAHPVIQNFSYETFQQKMLRFLESHLDDAEPYLLTMAKKALKSESAASSTGKEDKQPAPGPVEKPPREPARQLRNPPTTIGMMTLKAAFKTLSGAQDSEAAFAKLDQKDLVLPTQALPASPALKNKRPRKDENESSAPADGEGGSELQPKNKRMTISRLVLEEDSQSTEPSAGLNSSQEAASAPPSKPTVLNQPLPGEKNPKVPKGKWNSSNGVEEKETWVEEDELFQVQAAPDEDSTTNITKKQKWTVEESEWVKAGVQKYGEGNWAAISKNYPFVNRTAVMIKDRWRTMKRLGMN |
| 3857 | sp|Q9Y5Q8|TF3C5\_HUMAN | MAAEAADLGLGAAVPVELRRERRMVCVEYPGVVRDVAKMLPTLGGEEGVSRIYADPTKRLELYFRPKDPYCHPVCANRFSTSSLLLRIRKRTRRQKGVLGTEAHSEVTFDMEILGIISTIYKFQGMSDFQYLAVHTEAGGKHTSMYDKVLMLRPEKEAFFHQELPLYIPPPIFSRLDAPVDYFYRPETQHREGYNNPPISGENLIGLSRARRPHNAIFVNFEDEEVPKQPLEAAAQTWRRVCTNPVDRKVEEELRKLFDIRPIWSRNAVKANISVHPDKLKVLLPFIAYYMITGPWRSLWIRFGYDPRKNPDAKIYQVLDFRIRCGMKHGYAPSDLPVKAKRSTYNYSLPITVKKTSSQLVTMHDLKQGLGPSGTSGARKPASSKYKLKDSVYIFREGALPPYRQMFYQLCDLNVEELQKIIHRNDGAENSCTERDGWCLPKTSDELRDTMSLMIRQTIRSKRPALFSSSAKADGGKEQLTYESGEDEEDEEEEEEEEEDFKPSDGSENEMETEILDYV |
| 3858 | sp|Q14AT2|TEX11\_MOUSE | MDRITDFYFLDFRESVKTLIITGNSWRLQEMIDRFFTNISNFNRESLTEIQNIQIEEIAVNLWNWAVTKRVELSVRKNQAAKLCYIACKLVYMHGISVSSEEAIQRQILMNIKTGKEWLYTGNAQIADEFFQAAMTDLERLYVRLMQSCYTEANVCVYKMIVEKGIFHVLSYQAESAVAQGDFKKASMCVLRCKDMLMRLPNMTKYLHVLCYNLGIEASKRNKYKESSFWLGQSYEIGKMDRRSVEPQMLAKTLRLLATIYLNCGGEAYYTKAFIAILIANKEHLHPAGLFLKMRILMKGNSCNEELLEAAKEILYLAMPLEFYLSIIQFLIDNKRESVGFRFLRIISDNFKSPEDRKRILLFYIDTLLQKDQDMIAEEKIKDVLKGYQTRSRLSRDLVNWLHNILWGKASRSVKVQKYADALHWYSYSLKLYEYDKADLDLIKLKRNMVSCYLSLKQLDKAKEAIAEVEQKDPTHVFTRYYIFKIAIMEGDAFRALQVVSALKKSLMDGESEDRGLIEAGVSTLTILSLSIDFALENGQQFVAERALEYLCQLSKDPKEVLGGLKCLMRIILPQAFHMPESEYKKKEMGRLWNYLNTALLKFSEYFNEAPSTLDYMVNDANWFRKIAWNLAVQSEKDLEAMKNFFMVSYKLSLFCPLDQGLLIAQKTCLLVAAAVDLDRGRKAPTICEQNMLLRTALEQIKKCKKVWNLLKKTGDFSGDDCGVLLLLYEFEVKTKTNDPSLSRFVDSVWKMPDLECRTLETMALLAMDKPAYYPTIAHKAMKKLLLMYRKQEPVDVLKYSVCMHNLIKLLVADEVWNISLYPLKEVQSHFKNTLSIIRQNEGYPEEEIVWLMIKSWNIGILMSSKNKYISAERWAAMALDFLGHLSTLKTSYEAKVNLLYANLMEILDKKTDLRSTEMTEQLRALIVPPEDQGSVSSTNVAAQNHL |
| 3859 | sp|P09838|TDT\_MOUSE | MDPLQAVHLGPRKKRPRQLGTPVASTPYDIRFRDLVLFILEKKMGTTRRAFLMELARRKGFRVENELSDSVTHIVAENNSGSDVLEWLQLQNIKASSELELLDISWLIECMGAGKPVEMMGRHQLVVNRNSSPSPVPGSQNVPAPAVKKISQYACQRRTTLNNYNQLFTDALDILAENDELRENEGSCLAFMRASSVLKSLPFPITSMKDTEGIPCLGDKVKSIIEGIIEDGESSEAKAVLNDERYKSFKLFTSVFGVGLKTAEKWFRMGFRTLSKIQSDKSLRFTQMQKAGFLYYEDLVSCVNRPEAEAVSMLVKEAVVTFLPDALVTMTGGFRRGKMTGHDVDFLITSPEATEDEEQQLLHKVTDFWKQQGLLLYCDILESTFEKFKQPSRKVDALDHFQKCFLILKLDHGRVHSEKSGQQEGKGWKAIRVDLVMCPYDRRAFALLGWTGSRQFERDLRRYATHERKMMLDNHALYDRTKRVFLEAESEEEIFAHLGLDYIEPWERNA |
| 3860 | sp|Q8WUA7|TB22A\_HUMAN | MASDGARKQFWKRSNSKLPGSIQHVYGAQHPPFDPLLHGTLLRSTAKMPTTPVKAKRVSTFQEFESNTSDAWDAGEDDDELLAMAAESLNSEVVMETANRVLRNHSQRQGRPTLQEGPGLQQKPRPEAEPPSPPSGDLRLVKSVSESHTSCPAESASDAAPLQRSQSLPHSATVTLGGTSDPSTLSSSALSEREASRLDKFKQLLAGPNTDLEELRRLSWSGIPKPVRPMTWKLLSGYLPANVDRRPATLQRKQKEYFAFIEHYYDSRNDEVHQDTYRQIHIDIPRMSPEALILQPKVTEIFERILFIWAIRHPASGYVQGINDLVTPFFVVFICEYIEAEEVDTVDVSGVPAEVLCNIEADTYWCMSKLLDGIQDNYTFAQPGIQMKVKMLEELVSRIDEQVHRHLDQHEVRYLQFAFRWMNNLLMREVPLRCTIRLWDTYQSEPDGFSHFHLYVCAAFLVRWRKEILEEKDFQELLLFLQNLPTAHWDDEDISLLLAEAYRLKFAFADAPNHYKK |
| 3861 | sp|Q9H7E2|TDRD3\_HUMAN | MLRLQMTDGHISCTAVEFSYMSKISLNTPPGTKVKLSGIVDIKNGFLLLNDSNTTVLGGEVEHLIEKWELQRSLSKHNRSNIGTEGGPPPFVPFGQKCVSHVQVDSRELDRRKTLQVTMPVKPTNDNDEFEKQRTAAIAEVAKSKETKTFGGGGGGARSNLNMNAAGNRNREVLQKEKSTKSEGKHEGVYRELVDEKALKHITEMGFSKEASRQALMDNGNNLEAALNVLLTSNKQKPVMGPPLRGRGKGRGRIRSEDEEDLGNARPSAPSTLFDFLESKMGTLNVEEPKSQPQQLHQGQYRSSNTEQNGVKDNNHLRHPPRNDTRQPRNEKPPRFQRDSQNSKSVLEGSGLPRNRGSERPSTSSVSEVWAEDRIKCDRPYSRYDRTKDTSYPLGSQHSDGAFKKRDNSMQSRSGKGPSFAEAKENPLPQGSVDYNNQKRGKRESQTSIPDYFYDRKSQTINNEAFSGIKIEKHFNVNTDYQNPVRSNSFIGVPNGEVEMPLKGRRIGPIKPAGPVTAVPCDDKIFYNSGPKRRSGPIKPEKILESSIPMEYAKMWKPGDECFALYWEDNKFYRAEVEALHSSGMTAVVKFIDYGNYEEVLLSNIKPIQTEAWEEEGTYDQTLEFRRGGDGQPRRSTRPTQQFYQPPRARN |
| 3862 | sp|P42680|TEC\_HUMAN | MNFNTILEEILIKRSQQKKKTSPLNYKERLFVLTKSMLTYYEGRAEKKYRKGFIDVSKIKCVEIVKNDDGVIPCQNKYPFQVVHDANTLYIFAPSPQSRDLWVKKLKEEIKNNNNIMIKYHPKFWTDGSYQCCRQTEKLAPGCEKYNLFESSIRKALPPAPETKKRRPPPPIPLEEEDNSEEIVVAMYDFQAAEGHDLRLERGQEYLILEKNDVHWWRARDKYGNEGYIPSNYVTGKKSNNLDQYEWYCRNMNRSKAEQLLRSEDKEGGFMVRDSSQPGLYTVSLYTKFGGEGSSGFRHYHIKETTTSPKKYYLAEKHAFGSIPEIIEYHKHNAAGLVTRLRYPVSVKGKNAPTTAGFSYEKWEINPSELTFMRELGSGLFGVVRLGKWRAQYKVAIKAIREGAMCEEDFIEEAKVMMKLTHPKLVQLYGVCTQQKPIYIVTEFMERGCLLNFLRQRQGHFSRDVLLSMCQDVCEGMEYLERNSFIHRDLAARNCLVSEAGVVKVSDFGMARYVLDDQYTSSSGAKFPVKWCPPEVFNYSRFSSKSDVWSFGVLMWEVFTEGRMPFEKYTNYEVVTMVTRGHRLYQPKLASNYVYEVMLRCWQEKPEGRPSFEDLLRTIDELVECEETFGR |
| 3863 | sp|Q99N50|SYTL2\_MOUSE | MIDLSFLTEEEQDAILKVLQRDAALKRAEEERVRHLPEKIKDDQQLKNMSGQWFYEAKAKRHRDKIHGADIIRASMRRKKLPAAAEQNKDTAMRAKESWVNNVNKDAVLPPEIAVVEEPEDDTDPAGPSSSLVDPASSVIDMSQESTRTPAVSLPKQRKNPFNSPKLPEDHSLQQTKPEQSKTGKAGLFQISKEGELSESKEKSSIPDMPRQQLEKPKQTVSTEPENASHTKAPIPKARKLIYKSNDLEKDDNQSFPRQRRDSLNARGAPRGILKRNSSSSSTDSETLRLNYNLDPKSKILSPGLTIHERISEKEFSLEDDSSTSSLEPLKHVRFSAVKNELPQSPRPVLGQEVGEFTVLESDQLQNGTEDAGDIEEFQNHPELSHKTPLSHYQLVSSPSDSGREREQLMSSGSAPRDEIPCHSDILPTGPQCVESSSVINGQQEKSSHFTKLPSELSKSPSDELTQCGEPEPSQTADHSFRDHRQGSEEEHSPVLKTLERRAARKLPSKSLEDIPSDSSNQAKVDNLPEELVRSAEDDQKADQEPDTNECIPGISTVPSLPDNQFSHPDKLKRMSKSVPAFLQDESDDRETDTASESSYQLRRYKKSPSSLTNLSSSSGMTSLSSASGSVMSVYSGDFGNLEVKGSVQFALDYVESLKELHVFVAQCKDLAAADVKKQRSDPYVKTYLLPDKGKMGKKKTLVVKKTLNPVYNEILRYKIERQFLKTQKLNLSVWHRDTFKRNSFLGEVELDLETWDWDSKQNKQLKWYPLKRKTAPVALETENRGEMKLALQYVPEPSPGKKLPTTGEVHIWVKECLDLPLLRGSHLNSFVKCTILPDTSRKSRQKTRAVGKTTNPVFNHTMVYDGFRPEDLMEACVELTVWDHYKLTNQFLGGLRIGFGTGKSYGTEVDWMDSTSEEVALWEKMVNSPNTWVEATLPLRMLLIAKLSK |
| 3864 | sp|O13339|TERT\_SCHPO | MTEHHTPKSRILRFLENQYVYLCTLNDYVQLVLRGSPASSYSNICERLRSDVQTSFSIFLHSTVVGFDSKPDEGVQFSSPKCSQSELIANVVKQMFDESFERRRNLLMKGFSMNHEDFRAMHVNGVQNDLVSTFPNYLISILESKNWQLLLEIIGSDAMHYLLSKGSIFEALPNDNYLQISGIPLFKNNVFEETVSKKRKRTIETSITQNKSARKEVSWNSISISRFSIFYRSSYKKFKQDLYFNLHSICDRNTVHMWLQWIFPRQFGLINAFQVKQLHKVIPLVSQSTVVPKRLLKVYPLIEQTAKRLHRISLSKVYNHYCPYIDTHDDEKILSYSLKPNQVFAFLRSILVRVFPKLIWGNQRIFEIILKDLETFLKLSRYESFSLHYLMSNIKISEIEWLVLGKRSNAKMCLSDFEKRKQIFAEFIYWLYNSFIIPILQSFFYITESSDLRNRTVYFRKDIWKLLCRPFITSMKMEAFEKINENNVRMDTQKTTLPPAVIRLLPKKNTFRLITNLRKRFLIKMGSNKKMLVSTNQTLRPVASILKHLINEESSGIPFNLEVYMKLLTFKKDLLKHRMFGRKKYFVRIDIKSCYDRIKQDLMFRIVKKKLKDPEFVIRKYATIHATSDRATKNFVSEAFSYFDMVPFEKVVQLLSMKTSDTLFVDFVDYWTKSSSEIFKMLKEHLSGHIVKIGNSQYLQKVGIPQGSILSSFLCHFYMEDLIDEYLSFTKKKGSVLLRVVDDFLFITVNKKDAKKFLNLSLRGFEKHNFSTSLEKTVINFENSNGIINNTFFNESKKRMPFFGFSVNMRSLDTLLACPKIDEALFNSTSVELTKHMGKSFFYKILRSSLASFAQVFIDITHNSKFNSCCNIYRLGYSMCMRAQAYLKRMKDIFIPQRMFITDLLNVIGRKIWKKLAEILGYTSRRFLSSAEVKWLFCLGMRDGLKPSFKYHPCFEQLIYQFQSLTDLIKPLRPVLRQVLFLHRRIAD |
| 3865 | sp|Q8K0F1|TBC23\_MOUSE | MAEGEELLPLSTSGGDSWEKDLEEALEAGGCDLETLRNIIQGRPLPAELRAKVWKIALNVAGKGDSLASWDGILDLPEQNTIHKDCLEFIEQLSVPEEKAAELLLDIESVITFYCKSRSVKYSTSLSWIHLLKPLICLQLPRSDLYNCFYAVMNKYIPRDCSLKGRPFHLFRLLIQYHEPELCSFLDTKKITPDSYALNWLGSLFAHYCSTEVTQAIWDGYLQQADPFFIYFLMLIILVNTKEVILAQESDSKEEVIRFLESTPASLNLEDIEDLFSLAQYYCSKTPASFRKDNHHLFGSTLLGIKDDEADLSQALCLAVSVSEILQANQLQGEGVRFFVVDCRPAEQYNAGHLATAFHLDSDLMLQNPSEFAQSVKSLLEAQKQSIESGSIAGGEHLCFMGSGREEEDMYMNMVLAHFLQKNKEYVSIASGGFMALQQHLADINVEGPESGYGHWIASTSGSRGSISSVDGESCNGSNDRGMKSLVSKMTVALKTKSVTVREKVISFIENSSTPVDRHVSSSDRVGKPYRGVKPVFSIGDEEEYDTDEIDSSSMSDDDRKEVVNIQTWINKPDIKHHFPCKEVKESGHMFPSHLLVTATHMYCLREILSRKGLAYIQSRQALNSVVKITSKKKHPELITFKYGNSSASGIEILAIERYLIPNAGDATRAIKQQIMKVLDALES |
| 3866 | sp|Q6GNB7|TCF21\_XENLA | MSTGSLSDVEDFQDMEMLECDGIKLDPNKEFGISNDSNEESSTCDNGSPKKGRGTSGKRRKASSKKSPLGTINQEGKQVQRNAANARERARMRVLSKAFSRLKTTLPWVPPDTKLSKLDTLRLASSYIAHLRQILANDKYENGYIHPVNLTWPFMVAGKPENDLKEVVSTSRLCGPTAS |
| 3867 | sp|P34475|TBG\_CAEEL | MSGTGALMTVHVGQCGNQLAQAFWKSMVDEHGINERGQTTHEDDMNDKKDLLFYQADDDHYVPRAVLVDLEPRVINGMMQSPNFSNLFNTDNIFMSDHGGGAGNNWASGYCQGQEVQEKIMDIIIREAENTNNLDGILFTHSVSGGTGSGTGSLLLERLREAFPKKVIQTYSVFANSDTSTDVVVHPYNWVLSMQRLIENPDHVVVLDNAALHRLAAGKFKTDTPTFDHINSLVARIMSTSTAPYRFNSAMCPSIRYLDLAPFPPMHFIQSAISPVVDPNENFTRKTSVADVTRFLLKPTSMMVSTASRVRPNDCMLSAYMFLQGQIEAHTIMTAEQNVDFAIRRPPFYMLKPLRMMHAPLSPYVRPQYKVSGLLLNNSTSVAPLFESLLSKYDKLRSKRAFIDKFEKIDNFSLDMMDDAMHIVQDLLDEYKAVVQKDYLTRGL |
| 3868 | sp|Q9NR00|TCIM\_HUMAN | MKAKRSHQAVIMSTSLRVSPSIHGYHFDTASRKKAVGNIFENTDQESLERLFRNSGDKKAEERAKIIFAIDQDVEEKTRALMALKKRTKDKLFQFLKLRKYSIKVH |
| 3869 | sp|Q9UL17|TBX21\_HUMAN | MGIVEPGCGDMLTGTEPMPGSDEGRAPGADPQHRYFYPEPGAQDADERRGGGSLGSPYPGGALVPAPPSRFLGAYAYPPRPQAAGFPGAGESFPPPADAEGYQPGEGYAAPDPRAGLYPGPREDYALPAGLEVSGKLRVALNNHLLWSKFNQHQTEMIITKQGRRMFPFLSFTVAGLEPTSHYRMFVDVVLVDQHHWRYQSGKWVQCGKAEGSMPGNRLYVHPDSPNTGAHWMRQEVSFGKLKLTNNKGASNNVTQMIVLQSLHKYQPRLHIVEVNDGEPEAACNASNTHIFTFQETQFIAVTAYQNAEITQLKIDNNPFAKGFRENFESMYTSVDTSIPSPPGPNCQFLGGDHYSPLLPNQYPVPSRFYPDLPGQAKDVVPQAYWLGAPRDHSYEAEFRAVSMKPAFLPSAPGPTMSYYRGQEVLAPGAGWPVAPQYPPKMGPASWFRPMRTLPMEPGPGGSEGRGPEDQGPPLVWTEIAPIRPESSDSGLGEGDSKRRRVSPYPSSGDSSSPAGAPSPFDKEAEGQFYNYFPN |
| 3870 | sp|Q9BSH4|TACO1\_HUMAN | MSAWAAASLSRAAARCLLARGPGVRAAPPRDPRPSHPEPRGCGAAPGRTLHFTAAVPAGHNKWSKVRHIKGPKDVERSRIFSKLCLNIRLAVKEGGPNPEHNSNLANILEVCRSKHMPKSTIETALKMEKSKDTYLLYEGRGPGGSSLLIEALSNSSHKCQADIRHILNKNGGVMAVGARHSFDKKGVIVVEVEDREKKAVNLERALEMAIEAGAEDVKETEDEEERNVFKFICDASSLHQVRKKLDSLGLCSVSCALEFIPNSKVQLAEPDLEQAAHLIQALSNHEDVIHVYDNIE |
| 3871 | sp|P54577|SYYC\_HUMAN | MGDAPSPEEKLHLITRNLQEVLGEEKLKEILKERELKIYWGTATTGKPHVAYFVPMSKIADFLKAGCEVTILFADLHAYLDNMKAPWELLELRVSYYENVIKAMLESIGVPLEKLKFIKGTDYQLSKEYTLDVYRLSSVVTQHDSKKAGAEVVKQVEHPLLSGLLYPGLQALDEEYLKVDAQFGGIDQRKIFTFAEKYLPALGYSKRVHLMNPMVPGLTGSKMSSSEEESKIDLLDRKEDVKKKLKKAFCEPGNVENNGVLSFIKHVLFPLKSEFVILRDEKWGGNKTYTAYVDLEKDFAAEVVHPGDLKNSVEVALNKLLDPIREKFNTPALKKLASAAYPDPSKQKPMAKGPAKNSEPEEVIPSRLDIRVGKIITVEKHPDADSLYVEKIDVGEAEPRTVVSGLVQFVPKEELQDRLVVVLCNLKPQKMRGVESQGMLLCASIEGINRQVEPLDPPAGSAPGEHVFVKGYEKGQPDEELKPKKKVFEKLQADFKISEECIAQWKQTNFMTKLGSISCKSLKGGNIS |
| 3872 | sp|P21731|TA2R\_HUMAN | MWPNGSSLGPCFRPTNITLEERRLIASPWFAASFCVVGLASNLLALSVLAGARQGGSHTRSSFLTFLCGLVLTDFLGLLVTGTIVVSQHAALFEWHAVDPGCRLCRFMGVVMIFFGLSPLLLGAAMASERYLGITRPFSRPAVASQRRAWATVGLVWAAALALGLLPLLGVGRYTVQYPGSWCFLTLGAESGDVAFGLLFSMLGGLSVGLSFLLNTVSVATLCHVYHGQEAAQQRPRDSEVEMMAQLLGIMVVASVCWLPLLVFIAQTVLRNPPAMSPAGQLSRTTEKELLIYLRVATWNQILDPWVYILFRRAVLRRLQPRLSTRPRSLSLQPQLTQRSGLQ |
| 3873 | sp|Q868G6|TACHY\_APIME | MIIHSIFLLMVSITLVIAEESDNVLFDKRAPTGHQEMQGKQNSASLNSENFGIFKRALMGFQGVRGKKNSIINDVKNELFPEDINKRAPMGFQGMRGKKASFDDEYYKRAPMGFQGMRGKKSLEEILDEIKKKTTRFQDSRSKDVYLIDYPEDYGKRVLSMDGYQNILDKKDELLGEWEKRAPMGFYGTRGKKIILDALEELDKRGVMDFQIGLQRKKDTTFDDYLDYAINPFDYEKRSTDFQDVESGSESFKRARMGFHGMRGKRDAAGIYGSNSSTVGTIFGYQDMRNRGNNFPVYQVEKRSPFRYLGARGKKNPRWEFRGKFVGVRGKKSSLQTVF |
| 3874 | sp|Q9JMG3|TMUB1\_MOUSE | MALIEGVGDEVTVLFAVLACLLVLALAWVSTHTTESTDPQPQPPGTTTPAQPSEAMSASDSIREEAPGAESPSLRHRGPSAQPEPDTGVTASTPPDSPQEPLLLRLKFLNDSEQVARAWPQDTIGSLKRTQFPGQEQQVRLIYQGQLLGDDTQTLGSLHLPPNCVLHCHVSTRVGPPHPPCPPGSEPGPSGLEIGSLLLPLLLLLLLLLWYCQIQYRPFFPLTATLGLAGFTLLLSLLAFAMYRP |
| 3875 | sp|O43508|TNF12\_HUMAN | MAARRSQRRRGRRGEPGTALLVPLALGLGLALACLGLLLAVVSLGSRASLSAQEPAQEELVAEEDQDPSELNPQTEESQDPAPFLNRLVRPRRSAPKGRKTRARRAIAAHYEVHPRPGQDGAQAGVDGTVSGWEEARINSSSPLRYNRQIGEFIVTRAGLYYLYCQVHFDEGKAVYLKLDLLVDGVLALRCLEEFSATAASSLGPQLRLCQVSGLLALRPGSSLRIRTLPWAHLKAAPFLTYFGLFQVH |
| 3876 | sp|Q9VH14|TIMP\_DROME | MDLRKHLGLLTLLLVAVFAFYGRPADACSCMPSHPQTHFAQADYVVQLRVLRKSDTIEPGRTTYKVHIKRTYKATSEARRMLRDGRLSTPQDDAMCGINLDLGKVYIVAGRMPTLNICSYYKEYTRMTITERHGFSGGYAKATNCTVTPCFGERCFKGRNYADTCKWSPFGKCETNYSACMPHKVQTVNGVISRCRWRRTQLYRKCMSNP |
| 3877 | sp|Q96EK4|THA11\_HUMAN | MPGFTCCVPGCYNNSHRDKALHFYTFPKDAELRRLWLKNVSRAGVSGCFSTFQPTTGHRLCSVHFQGGRKTYTVRVPTIFPLRGVNERKVARRPAGAAAARRRQQQQQQQQQQQQQQQQQQQQQQQQQQQQQSSPSASTAQTAQLQPNLVSASAAVLLTLQATVDSSQAPGSVQPAPITPTGEDVKPIDLTVQVEFAAAEGAAAAAAASELQAATAGLEAAECPMGPQLVVVGEEGFPDTGSDHSYSLSSGTTEEELLRKLNEQRDILALMEVKMKEMKGSIRHLRLTEAKLREELREKDRLLAMAVIRKKHGM |
| 3878 | sp|Q93Z00|TCP14\_ARATH | MQKPTSSILNVIMDGGDSVGGGGGDDHHRHLHHHHRPTFPFQLLGKHDPDDNHQQQPSPSSSSSLFSLHQHQQLSQSQPQSQSQKSQPQTTQKELLQTQEESAVVAAKKPPLKRASTKDRHTKVDGRGRRIRMPALCAARVFQLTRELGHKSDGETIEWLLQQAEPSVIAATGTGTIPANFTSLNISLRSSGSSMSLPSHFRSAASTFSPNNIFSPAMLQQQQQQQRGGGVGFHHPHLQGRAPTSSLFPGIDNFTPTTSFLNFHNPTKQEGDQDSEELNSEKKRRIQTTSDLHQQQQQHQHDQIGGYTLQSSNSGSTATAAAAQQIPGNFWMVAAAAAAGGGGGNNNQTGGLMTASIGTGGGGGEPVWTFPSINTAAAALYRSGVSGVPSGAVSSGLHFMNFAAPMAFLTGQQQLATTSNHEINEDSNNNEGGRSDGGGDHHNTQRHHHHQQQHHHNILSGLNQYGRQVSGDSQASGSLGGGDEEDQQD |
| 3879 | sp|Q8W4J8|TIF7\_ARATH | MERDFLGLSDKQYLSNNVKHEVNDDAVEERGLSTKAAREWGKSKVFATSSFMPSSDFQEAKAFPGAYQWGSVSAANVFRRCQFGGAFQNATPLLLGGSVPLPTHPSLVPRVASSGSSPQLTIFYGGTISVFNDISPDKAQAIMLCAGNGLKGETGDSKPVREAERMYGKQIHNTAATSSSSATHTDNFSRCRDTPVAATNAMSMIESFNAAPRNMIPSVPQARKASLARFLEKRKERLMSAMPYKKMLLDLSTGESSGMNYSSTSPT |
| 3880 | sp|Q04725|TLE2\_HUMAN | MYPQGRHPTPLQSGQPFKFSILEICDRIKEEFQFLQAQYHSLKLECEKLASEKTEMQRHYVMYYEMSYGLNIEMHKQAEIVKRLSGICAQIIPFLTQEHQQQVLQAVERAKQVTVGELNSLIGQQLQPLSHHAPPVPLTPRPAGLVGGSATGLLALSGALAAQAQLAAAVKEDRAGVEAEGSRVERAPSRSASPSPPESLVEEERPSGPGGGGKQRADEKEPSGPYESDEDKSDYNLVVDEDQPSEPPSPATTPCGKVPICIPARRDLVDSPASLASSLGSPLPRAKELILNDLPASTPASKSCDSSPPQDASTPGPSSASHLCQLAAKPAPSTDSVALRSPLTLSSPFTTSFSLGSHSTLNGDLSVPSSYVSLHLSPQVSSSVVYGRSPVMAFESHPHLRGSSVSSSLPSIPGGKPAYSFHVSADGQMQPVPFPSDALVGAGIPRHARQLHTLAHGEVVCAVTISGSTQHVYTGGKGCVKVWDVGQPGAKTPVAQLDCLNRDNYIRSCKLLPDGRSLIVGGEASTLSIWDLAAPTPRIKAELTSSAPACYALAVSPDAKVCFSCCSDGNIVVWDLQNQTMVRQFQGHTDGASCIDISDYGTRLWTGGLDNTVRCWDLREGRQLQQHDFSSQIFSLGHCPNQDWLAVGMESSNVEILHVRKPEKYQLHLHESCVLSLKFASCGRWFVSTGKDNLLNAWRTPYGASIFQSKESSSVLSCDISRNNKYIVTGSGDKKATVYEVVY |
| 3881 | sp|Q41951|TIP21\_ARATH | MAGVAFGSFDDSFSLASLRAYLAEFISTLLFVFAGVGSAIAYAKLTSDAALDTPGLVAIAVCHGFALFVAVAIGANISGGHVNPAVTFGLAVGGQITVITGVFYWIAQLLGSTAACFLLKYVTGGLAVPTHSVAAGLGSIEGVVMEIIITFALVYTVYATAADPKKGSLGTIAPLAIGLIVGANILAAGPFSGGSMNPARSFGPAVAAGDFSGHWVYWVGPLIGGGLAGLIYGNVFMGSSEHVPLASADF |
| 3882 | sp|Q39234|TGA3\_ARATH | MEMMSSSSSTTQVVSFRDMGMYEPFQQLSGWESPFKSDINNITSNQNNNQSSSTTLEVDARPEADDNNRVNYTSVYNNSLEAEPSSNNDQDEDRINDKMKRRLAQNREAARKSRLRKKAHVQQLEESRLKLSQLEQELVRARQQGLCVRNSSDTSYLGPAGNMNSGIAAFEMEYTHWLEEQNRRVSEIRTALQAHIGDIELKMLVDSCLNHYANLFRMKADAAKADVFFLMSGMWRTSTERFFQWIGGFRPSELLNVVMPYVEPLTDQQLLEVRNLQQSSQQAEEALSQGLDKLQQGLVESIAIQIKVVESVNHGAPMASAMENLQALESFVNQADHLRQQTLQQMSKILTTRQAARGLLALGEYFHRLRALSSLWAARPREHT |
| 3883 | sp|P47191|SYT1\_CHICK | MVSESHHEALAAPPATTVAAALPSNVTEPAAPGGGGGKEDAFSNLKKKFMNELNKIPLPPWALIAIAIVAVLLILTCCFCLCKKCLFKKKNKKKGKEKGGKNAINMKDVKDLGKTMKDQALKDDDAETGLTDGEEKEEPKEVEKLGKIQYSLDYDFQNNQLLVGIIQAAELPALDMGGTSDPYVKVFLLPDKKKKYETKVHRKTLNPVFNEQFTFKVPYSELGGKTLVMAVYDFDRFSKHDIIGEYKVAMNTVDFGHVTEEWRDLQSAEKEEQEKLGDICFSLRYVPTAGKLTVVILEAKNLKKMDVGGLSDPYVKIHLMQNGKRLKKKKTTIKKNTLNPYYNESFSFEVPFEQIQKVQIVVTVLDYDKIGKNDAIGKVFVGYNSTGAELRHWSDMLANPRRPIAQWHTLQPEEEVDAMLAVKK |
| 3884 | sp|Q5RDH6|TFR1\_PONAB | MMDQARSAFSNLFGGEPLSYTRFSLARQVDGDNSHVEMKLAVDEEENADNNTKANVTKPKRCGGSICYGTIAVIIFFLIGFMIGYLGYCKGVEPKTECERLAGTESPVREEPEEDFPAAPRLYWDDLKKKLSEKLDTTDFTSTIKLLNENSYVPREAGSQKDENLALYVENQFREFKLSKVWRDQHFVKIQVKDSAQNSVIIVDKNGRLVYLVENPGGYVAYSKAATVTGKLVHANFGTKKDFEDLDTPVNGSIVIVRAGKITFAEKVANAESLNAIGVLIYMDQTKFPIVNAELSFFGHAHLGTGDPYTPGFPSFNHTQFPPSRSSGLPNIPVQTISRAAAEKLFGNMEGDCPSDWKTDSTCRMVTSESKNVKLTVSNVLKEIKILNIFGVIKGFVEPDHYVVVGAQRDAWGPGAAKSGVGTALLLKLAEMFSDMVLKDGFQPSRSIIFASWSAGDFGSVGATEWLEGYLSSLHLKAFTYINLDKAVLGTSNFKVSASPLLYTLIEKTMQNVKHPVTGQSLYQDSNWASKVEKLTLDNAAFPFLAYSGIPAVSFCFCEDTDYPYLGTTMDTYKELTERIPELNKVARAAAEVAGQFMIKLTHDVELNLDYERYNSQLLSFVRDLNQYRADIKEMGLSLQWLYSARGDFFRATSRLTTDFGNAEKTDRFVMKKLNDRVMRVEYHFLSPYVSPKESPFRHVFWGSGSHTLSALLENLKLRKQNNSAFNETLFRNQLALATWTIQGAANALSGDVWDIDNEF |
| 3885 | sp|P22735|TGM1\_HUMAN | MMDGPRSDVGRWGGNPLQPPTTPSPEPEPEPDGRSRRGGGRSFWARCCGCCSCRNAADDDWGPEPSDSRGRGSSSGTRRPGSRGSDSRRPVSRGSGVNAAGDGTIREGMLVVNGVDLLSSRSDQNRREHHTDEYEYDELIVRRGQPFHMLLLLSRTYESSDRITLELLIGNNPEVGKGTHVIIPVGKGGSGGWKAQVVKASGQNLNLRVHTSPNAIIGKFQFTVRTQSDAGEFQLPFDPRNEIYILFNPWCPEDIVYVDHEDWRQEYVLNESGRIYYGTEAQIGERTWNYGQFDHGVLDACLYILDRRGMPYGGRGDPVNVSRVISAMVNSLDDNGVLIGNWSGDYSRGTNPSAWVGSVEILLSYLRTGYSVPYGQCWVFAGVTTTVLRCLGLATRTVTNFNSAHDTDTSLTMDIYFDENMKPLEHLNHDSVWNFHVWNDCWMKRPDLPSGFDGWQVVDATPQETSSGIFCCGPCSVESIKNGLVYMKYDTPFIFAEVNSDKVYWQRQDDGSFKIVYVEEKAIGTLIVTKAISSNMREDITYLYKHPEGSDAERKAVETAAAHGSKPNVYANRGSAEDVAMQVEAQDAVMGQDLMVSVMLINHSSSRRTVKLHLYLSVTFYTGVSGTIFKETKKEVELAPGASDRVTMPVAYKEYRPHLVDQGAMLLNVSGHVKESGQVLAKQHTFRLRTPDLSLTLLGAAVVGQECEVQIVFKNPLPVTLTNVVFRLEGSGLQRPKILNVGDIGGNETVTLRQSFVPVRPGPRQLIASLDSPQLSQVHGVIQVDVAPAPGDGGFFSDAGGDSHLGETIPMASRGGA |
| 3886 | sp|Q9NR97|TLR8\_HUMAN | MENMFLQSSMLTCIFLLISGSCELCAEENFSRSYPCDEKKQNDSVIAECSNRRLQEVPQTVGKYVTELDLSDNFITHITNESFQGLQNLTKINLNHNPNVQHQNGNPGIQSNGLNITDGAFLNLKNLRELLLEDNQLPQIPSGLPESLTELSLIQNNIYNITKEGISRLINLKNLYLAWNCYFNKVCEKTNIEDGVFETLTNLELLSLSFNSLSHVPPKLPSSLRKLFLSNTQIKYISEEDFKGLINLTLLDLSGNCPRCFNAPFPCVPCDGGASINIDRFAFQNLTQLRYLNLSSTSLRKINAAWFKNMPHLKVLDLEFNYLVGEIASGAFLTMLPRLEILDLSFNYIKGSYPQHINISRNFSKLLSLRALHLRGYVFQELREDDFQPLMQLPNLSTINLGINFIKQIDFKLFQNFSNLEIIYLSENRISPLVKDTRQSYANSSSFQRHIRKRRSTDFEFDPHSNFYHFTRPLIKPQCAAYGKALDLSLNSIFFIGPNQFENLPDIACLNLSANSNAQVLSGTEFSAIPHVKYLDLTNNRLDFDNASALTELSDLEVLDLSYNSHYFRIAGVTHHLEFIQNFTNLKVLNLSHNNIYTLTDKYNLESKSLVELVFSGNRLDILWNDDDNRYISIFKGLKNLTRLDLSLNRLKHIPNEAFLNLPASLTELHINDNMLKFFNWTLLQQFPRLELLDLRGNKLLFLTDSLSDFTSSLRTLLLSHNRISHLPSGFLSEVSSLKHLDLSSNLLKTINKSALETKTTTKLSMLELHGNPFECTCDIGDFRRWMDEHLNVKIPRLVDVICASPGDQRGKSIVSLELTTCVSDVTAVILFFFTFFITTMVMLAALAHHLFYWDVWFIYNVCLAKVKGYRSLSTSQTFYDAYISYDTKDASVTDWVINELRYHLEESRDKNVLLCLEERDWDPGLAIIDNLMQSINQSKKTVFVLTKKYAKSWNFKTAFYLALQRLMDENMDVIIFILLEPVLQHSQYLRLRQRICKSSILQWPDNPKAEGLFWQTLRNVVLTENDSRYNNMYVDSIKQY |
| 3887 | sp|F8VPN2|TEX15\_MOUSE | MTYFFIYVSTERACSLNNCTIAKRIGKGKDATVIFEHFRKPVDPFVQENCPCKALNSEMGPFSSDTSSSYGNVQNGNNSVLEAYNRQTENSSNLRDASQVYTHNSGFSFIPTGNTASGNGDLFSVTYLRSILSSISAAFPSHNNTGSSTVITSKLIKDPRLMKREQSMRNKSDTAGLSDVLPLDKSLGCGDSQIKLTCMPTSSISSSEVPADNTITSCLNASCFKFSSESSHYQAHNSSSKGHDCIASSSIAVTEQFKEQHSSSFPSSLSNAFSDVRKQKHSEEQVQRAQMRSNVPVLTALSSESRNSDESENTCSNDSQGHFSQESPSSDINSIYKVGHQMSTVFPAQKKGNLCEYIQDTGMMRASISTEDSTKDGVNHTWCKETVLSNETVSSPIDNSNTLYQEHKEGGNLNSLSGNCEKIGVTHKLQVPKFPISSTGDKNELYRAALELECSLTPTIECLSQKYPQHSLEHEDNTNFAMTQGLIELKTVQNNQNFGNILSDAFQEAKDVPLASEKLIDRVISSAAIDISLDSSVCNIIGEYTCVRRENENGEASPYNCHKEEASRVKDGVQDHSLSYDAELSCDLNLKINLQEQRDDKNPNEAKEHNTDNINGSEKQDCLANDHFTNIVEMREIKSNTEVEILNSEECFTFNSFRGKNGKPAETASSESEAVEQRHAPNDQRGLEHLVSSFPEIEGSSVCVASNATKQIVGTTVLTVSTSLGDHQKDELKEICSSESSDLGLVKHSISECEIDTDKDKLQDFHQLVNENSALKTGLGSEIEVDLEHDNASVFQQNMHSQGNDLCEEFELYESLKSRIDWEGLFGSSYEEIESSSFARREGTDQHSSTECNCVSFCSQDKRELHNPIFLPDLQVTITNLLSLRISPTDESLELKDNFYKQVTESTEPETNKEGNASGFGMCSQPSGENSSFSCANKFGNSVQESGDVSKSESSHSSNSSHNTHVDQGSGKPNNDSLSTEPSNVTVMNDKSKCPTKSKPVFNDTRNKKDMQSRSSKRTLHASSSRGQNIANKDLREHETHEKKRRPTSHGSSDRFSSLSQGRIKTFSQSEKHIRNVLNILNNEASLCKSKHLSRKLNKAVLHLKKAHRRVHTSLQLISKVGQKRKGPLPKAYAVIHNNFWESCDHQGDSLMSERRYSKHFLSKRKYDKQGDKRFLRFDIEESLTPVSKHRLYRTNRERIAECLSNEVMSGHVSSSLTTFHVREFCDEEQFPEPQLPLAYTSQSISQLEYTNSIVGNESSSELEHFSETSGNMLDPKETLTEKEYQTHTQLCNSDSAKLKNHTTHSIRDIAKECNSEDKTVLCESNPVYLSFIKENTSHSPDKSYDSNCKANTDIHISVLGSKKKHILSVDIYEQDNCVSDGVKSGEAIFPIEKCTVPMETTSSIPTENIASKSYTIPPVSSILVTAGEEESSVGENGLFDVNENEMNITMHSKLDLTSVTEESKICKKNMKNLSCNDSSMLLKENITGPSKRYMAKYIEEEKIRKIEQAVYKKIITEGSPISFKYKSQNKILKEKSFHVNKKIITNNLTDSHLSIKNSTVDTIALKDIPNQLKERKEAGQIKVNNNSHSDCLSKPAIVETNHRPVLHGNPKVATLQKELKEHRSPNYTSHVTELSQILQRADEAASLQILEEETKLCQNILPLFVQAFERQQECSIDQILISRKLLVEQNLWNNCRLKLKPCAVDTWVELQMAMETIQFIENKKRFLEGKPTFRSLLWYDESLYSELLRRPRGYQLQSNFYPGFQGRLKYNAFCELQNYHNQLVEFLTETKKENNSYYALLKYKRQINECEAIMKHYSDCFDFCLSVPFACGVNFGDSLGDLETLRKSTLKLISVPGGSPKVHSYPGKKDHLWIIIEIVSSKVSFIKSNEEISIKICLYGLEHIYFDAAKSLVWKEKSCSLPKKHSEKNREMEEINERAFSKLKKIYDVLSKGLNNEPTSIGLQEDAIIASKQSTLGSISNCRLNKAWLSYPDISCVGEILDQAKSADLEELQGLTLRCTDHLEILKKYFQMLQEDNIDNIFIMEENVLDMLSNHNLGAVILKPEAIEIYIEIVMISETIHYLKNLIAKKLHNQRFRGMLWFDWSLLPELIGCQEEVVSLSVGDTQTHCLWKLVETAISVLKKELAVIYEYGEASNCSYALHLFYRELKELTGVKRLLNNSKYSVSTYIDLVPHTASVNFGNTVAELEHNYKQFFLLLKNVMSVPQKDFGKMVHIIKVMKTIEHMKLLSAKDTKLSTHLLFLQMLRNKRNALQQNRQEKMETPVTEPGEDSSQPGVSEQTPPGTECTVKNISDSSKKRPVTADTCEVSQGKGNTDTVPSWKKQKVTMKDVGNIQTVSKHPSTTGSPPNDENKIGSNSSDSLKSISASPEVVKRQSSVLGSVSPAESVQDTCTPKSESKVEPTDSLPDSLASLTEQQENSNVIEKRNGNSSVAETNDKKDCPLVTCDQKDIDASYSPDHTPAQESHKTPVDHTQISPSNLTAGNDDPLVPDASLLSVSASQSEKDVYLSGTDFHHENNKILNLSTEDCTGTSSPEPVCIKDKISVLQVDKTQPIKSESPKKSMTDAPNPNTAPFGSYGNSALNVNGTVQHTHSEQNSKVLTQKVGTSRNIPPQSACSPVHNSSAHSFGTSYPYYSWCFYQYSSSNGTAVTHTYQGMTAYEIQQPPPPVLTTVASTVQSTHFNRSYSEHFSYFPGQPQANSFNPGNGYFPSHTPVSYNYQQPVYSQFASHQPVPQATYPYPPNPGAPPQVPWTYAPWQQNPFLRRP |
| 3888 | sp|Q94FY7|TOCC\_ARATH | MEIRSLIVSMNPNLSSFELSRPVSPLTRSLVPFRSTKLVPRSISRVSASISTPNSETDKISVKPVYVPTSPNRELRTPHSGYHFDGTPRKFFEGWYFRVSIPEKRESFCFMYSVENPAFRQSLSPLEVALYGPRFTGVGAQILGANDKYLCQYEQDSHNFWGDRHELVLGNTFSAVPGAKAPNKEVPPEEFNRRVSEGFQATPFWHQGHICDDGRTDYAETVKSARWEYSTRPVYGWGDVGAKQKSTAGWPAAFPVFEPHWQICMAGGLSTGWIEWGGERFEFRDAPSYSEKNWGGGFPRKWFWVQCNVFEGATGEVALTAGGGLRQLPGLTETYENAALVCVHYDGKMYEFVPWNGVVRWEMSPWGYWYITAENENHVVELEARTNEAGTPLRAPTTEVGLATACRDSCYGELKLQIWERLYDGSKGKVILETKSSMAAVEIGGGPWFGTWKGDTSNTPELLKQALQVPLDLESALGLVPFFKPPGL |
| 3889 | sp|Q9WUU8|TNIP1\_MOUSE | MEGRGPYRIYDPGGSTPLGEVSAAFERLVEENTRLKGKMQGIKMLGELLEESQMEASRLRQKAEELVKDSELSPPTSAPSLVSFDDLAELTGQDTKVQVHPATSTAATTTATATTGNSMEKPEPASKSPSNGASSDFEVVPTEEQNSPETGSHPTNMMDLGPPPPEDSNLKLHLQRLETTLSVCAEEPDHSQLFTHLGRMALEFNRLASKVHKNEQRTSILQTLCEQLRQENEALKAKLDKGLEQRDLAAERLREENTELKKLLMNSSCKEGLCGQPSSPKPEGAGKKGVAGQQQASVMASKVPEAGAFGAAEKKVKLLEQQRMELLEVNKQWDQHFRSMKQQYEQKITELRQKLVDLQKQVTELEAEREQKQRDFDRKLLLAKSKIEMEETDKEQLTAEAKELRQKVRYLQDQLSPLTRQREYQEKEIQRLNKALEEALSIQASPSSPPAAFGSPEGVGGHLRKQELVTQNELLKQQVKIFEEDFQRERSDRERMNEEKEELKKQVEKLQAQVTLTNAQLKTLKEEEKAKEALKQQKRKAKASGERYHMEPHPEHVCGAYPYAYPPMPAMVPHHAYKDWSQIRYPPPPVPMEHPPPHPNSRLFHLPEYTWRPPCAGIRNQSSQVMDPPPDRPAEPESADNDCDGPQ |
| 3890 | sp|Q8NHX9|TPC2\_HUMAN | MAEPQAESEPLLGGARGGGGDWPAGLTTYRSIQVGPGAAARWDLCIDQAVVFIEDAIQYRSINHRVDASSMWLYRRYYSNVCQRTLSFTIFLILFLAFIETPSSLTSTADVRYRAAPWEPPCGLTESVEVLCLLVFAADLSVKGYLFGWAHFQKNLWLLGYLVVLVVSLVDWTVSLSLVCHEPLRIRRLLRPFFLLQNSSMMKKTLKCIRWSLPEMASVGLLLAIHLCLFTMFGMLLFAGGKQDDGQDRERLTYFQNLPESLTSLLVLLTTANNPDVMIPAYSKNRAYAIFFIVFTVIGSLFLMNLLTAIIYSQFRGYLMKSLQTSLFRRRLGTRAAFEVLSSMVGEGGAFPQAVGVKPQNLLQVLQKVQLDSSHKQAMMEKVRSYGSVLLSAEEFQKLFNELDRSVVKEHPPRPEYQSPFLQSAQFLFGHYYFDYLGNLIALANLVSICVFLVLDADVLPAERDDFILGILNCVFIVYYLLEMLLKVFALGLRGYLSYPSNVFDGLLTVVLLVLEISTLAVYRLPHPGWRPEMVGLLSLWDMTRMLNMLIVFRFLRIIPSMKLMAVVASTVLGLVQNMRAFGGILVVVYYVFAIIGINLFRGVIVALPGNSSLAPANGSAPCGSFEQLEYWANNFDDFAAALVTLWNLMVVNNWQVFLDAYRRYSGPWSKIYFVLWWLVSSVIWVNLFLALILENFLHKWDPRSHLQPLAGTPEATYQMTVELLFRDILEEPGEDELTERLSQHPHLWLCR |
| 3891 | sp|P15533|TR30A\_MOUSE | MASSVLEMIKEEVTCPICLELLKEPVSADCNHSFCRACITLNYESNRNTDGKGNCPVCRVPYPFGNLRPNLHVANIVERLKGFKSIPEEEQKVNICAQHGEKLRLFCRKDMMVICWLCERSQEHRGHQTALIEEVDQEYKEKLQGALWKLMKKAKICDEWQDDLQLQRVDWENQIQINVENVQRQFKGLRDLLDSKENEELQKLKKEKKEVMEKLEESENELEDQTELVRDLISDVEHHLELSTLEMLQGANCVLRRSQSLSLQQPQTVPQKRKRTFQAPDLKGMLQVYQGLMDIQQYWVHMTLHARNNAVIAINKEKRQIQYRSYNTVPVSEIYHLGVLGYPALSSGKHYWEVDISRSDAWLLGLNDGKCAQPQLHSKEEMGIKKNLHSQIKQNVLFQPKCGYWVIGMKNPSVYKAFDECSITHNSSILVISLPDRPSRVGVFLDRKAGTLSFYDVSNCGALIYRFYDPAFPVEVYPYFNPMKCSEPMTICGPPS |
| 3892 | sp|P51854|TKTL1\_HUMAN | MADAEARAEFPEEARPDRGTLQVLQDMASRLRIHSIRATCSTSSGHPTSCSSSSEIMSVLFFYIMRYKQSDPENPDNDRFVLAKRLSFVDVATGWLGQGLGVACGMAYTGKYFDRASYRVFCLMSDGESSEGSVWEAMAFASYYSLDNLVAIFDVNRLGHSGALPAEHCINIYQRRCEAFGWNTYVVDGRDVEALCQVFWQASQVKHKPTAVVAKTFKGRGTPSIEDAESWHAKPMPRERADAIIKLIESQIQTSRNLDPQPPIEDSPEVNITDVRMTSPPDYRVGDKIATRKACGLALAKLGYANNRVVVLDGDTRYSTFSEIFNKEYPERFIECFMAEQNMVSVALGCASRGRTIAFASTFAAFLTRAFDHIRIGGLAESNINIIGSHCGVSVGDDGASQMALEDIAMFRTIPKCTIFYPTDAVSTEHAVALAANAKGMCFIRTTRPETMVIYTPQERFEIGQAKVLRHCVSDKVTVIGAGITVYEALAAADELSKQDIFIRVIDLFTIKPLDVATIVSSAKATEGRIITVEDHYPQGGIGEAVCAAVSMDPDIQVHSLAVSGVPQSGKSEELLDMYGISARHIIVAVKCMLLN |
| 3893 | sp|Q5D7J1|TRIM5\_PANTR | MASGILVNVKEEVTCPICLELLTQPLSLDCGHSFCQACLTANHKKSMLDKGESSCPVCRISYQPENIRPNRHVANIVEKLREVKLSPEGQKVDHCAHHGEKLLLFCQEDGKVICWLCERSQEHRGHHTFLTEEVAREYQVKLQAALEMLRQKQQEAEELEADIREEKASWKTQIQYDKTNVLADFEQLRDILDWEESNELQNLEKEEEDILKSLTKSETEMVQQTQSVRELISDLERRLQGSVMELLQGVDGVIKRMENVTLKKPETFPKNQRRVFRAPDLKGMLEVFRELTDVRRYWVDVTVAPNNISCAVISEDMRQVSSPKPQIIYGARGTRYQTFMNFNYCTGILGSQSITSGKHYWEVDVSKKSAWILGVCAGFQPDAMCNIEKNENYQPKYGYWVIGLEEGVKCSAFQDGSFHTPSAPFIVPLSVIICPDRVGVFLDYEACTVSFFNITNHGSLIYKFSHCSFSQPVFPYLNPRKCGVPMTLCSPSS |
| 3894 | sp|Q9VUN0|TOLL6\_DROME | MIYYMLLILPVVLAQDQQHTTESLSTKHHQQQQLSHSNAIMGEAGVSNSQLMQPSTPARTLRPLTAGAGGDPSLYDAPDDCHFMPAAGLDQPEIALTCNLRTVNSEFDTTNFSVIPAEHTIALHILCNDEIMAKSRLEAQSFAHLVRLQQLSIQYCKLGRLGRQVLDGLEQLRNLTLRTHNILWPALNFEIEADAFSVTRRLERLDLSSNNIWSLPDNIFCTLSELSALNMSENRLQDVNELGFRDRSKEPTNGSTESTSTTESAKKSSSSSTSCSLDLEYLDVSHNDFVVLPANGFGTLRRLRVLSVNNNGISMIADKALSGLKNLQILNLSSNKIVALPTELFAEQAKIIQEVYLQNNSISVLNPQLFSNLDQLQALDLSMNQITSTWIDKNTFVGLIRLVLLNLSHNKLTKLEPEIFSDLYTLQILNLRHNQLENIAADTFAPMNNLHTLLLSHNKLKYLDAYALNGLYVLSLLSLDNNALIGVHPDAFRNCSALQDLNLNGNQLKTVPLALRNMRHLRTVDLGENMITVMEDSAFKGLGNLYGLRLIGNYLENITMHTFRDLPNLQILNLARNRIAVVEPGAFEMTSSIQAVRLDGNELNDINGLFSNMPSLLWLNISDNRLESFDYGHVPSTLQWLDLHKNRLSSLSNRFGLDSELKLQTLDVSFNQLQRIGPSSIPNSIELLFLNDNLITTVDPDTFMHKTNLTRVDLYANQITTLDIKSLRILPVWEHRALPEFYIGGNPFTCDCNIDWLQKINHITSRQYPRIMDLETIYCKLLNNRERAYIPLIEAEPKHFLCTYKTHCFAVCHCCEFDACDCEMTCPTNCTCFHDQTWSTNIVECSGAAYSEMPRRVPMDTSELYIDGNNFVELAGHSFLGRKNLAVLYANNSNVAHIYNTTFSGLKRLLILHLEDNHIISLEGNEFHNLENLRELYLQSNKIASIANGSFQMLRKLEVLRLDGNRLMHFEVWQLSANPYLVEISLADNQWSCECGYLARFRNYLGQSSEKIIDASRVSCIYNNATSVLREKNGTKCTLRDGVAHYMHTNEIEGLLPLLLVATCAFVAFFGLIFGLFCYRHELKIWAHSTNCLMNFCYKSPRFVDQLDKERPNDAYFAYSLQDEHFVNQILAQTLENDIGYRLCLHYRDVNINAYITDALIEAAESAKQFVLVLSKNFLYNEWSRFEYKSALHELVKRRKRVVFILYGDLPQRDIDMDMRHYLRTSTCIEWDDKKFWQKLRLALPLPNGRGNNNKRVVSGCLSGRTPSVNMYATSHEYQAGNGGVIPPPSARYADCGSNNYATINECAAAGGGRGYKPIPTSASAAAAACKFNTMNQLSKKQQRDLSVAGMAKTLEHQHHHNHQANRRSQHEYAVPSYLPSAAPAYDSVDYAKQQIRNNANCECVNLGTAKRAAGKNPASGLPSSFSSNFVPPGGASYNCKKSCSCIGDDELLCSCGGGGGIGVNLLESGTQSSVTMSSSSNNSRQPELTHYESNLSLNDDEDEDHDQQKNLWA |
| 3895 | sp|O14763|TR10B\_HUMAN | MEQRGQNAPAASGARKRHGPGPREARGARPGPRVPKTLVLVVAAVLLLVSAESALITQQDLAPQQRAAPQQKRSSPSEGLCPPGHHISEDGRDCISCKYGQDYSTHWNDLLFCLRCTRCDSGEVELSPCTTTRNTVCQCEEGTFREEDSPEMCRKCRTGCPRGMVKVGDCTPWSDIECVHKESGTKHSGEVPAVEETVTSSPGTPASPCSLSGIIIGVTVAAVVLIVAVFVCKSLLWKKVLPYLKGICSGGGGDPERVDRSSQRPGAEDNVLNEIVSILQPTQVPEQEMEVQEPAEPTGVNMLSPGESEHLLEPAEAERSQRRRLLVPANEGDPTETLRQCFDDFADLVPFDSWEPLMRKLGLMDNEIKVAKAEAAGHRDTLYTMLIKWVNKTGRDASVHTLLDALETLGERLAKQKIEDHLLSSGKFMYLEGNADSAMS |
| 3896 | sp|Q86C65|TOR\_DICDI | MSQHEQPSIWADALTKLLNDLKSKKEEDRVKASKNLKSYVISQSREMTNENFTKFMNELNNNLIFELVNSSVIPEKIGGIMAIDELIDVDYDENATKITRLANYLRIGLGFNDFTVMLMASKALGRLARSSGTLTAEFVEFEVTRALEWLSGDRIEARRHAAVLVLKELAQNAPTLFYVHASSFVDLIWVALKDPKVAIREGAVEALRACLELISERESRLRLQWYQKIYDEAQKSFKQNGSPESIHGSLITVSELLRNTGDFMLSKFKDICETVLKYKDHRDKLVKKTVLALFPRLAVFCSRDFVLNYFNACMNHLLAALRNQNERPTAFIALGEIAMAVGGSIKPYLDSIVVMIKQGLMTKGKQFCPEVLTCISMLASAVGQSMYPHMQVILPQMIVSSGLTVVLTDALRDLTINLPTLIPNIQYKLLNLISQVLANKPFSEPGAPSPYRKSATPFQGGSIPQLGQNSDVDPQMIALALKTLGSFDFSKHNLLEFVRECVVNYLDDDNIEIRREAAITCAQLMVGTEEPTPTRGHSAVIVGEVLEKLLVVGIADPDPSIRKTVLSSLEARFDHYLAQAENLRSLFIALNDELFEIRELAITVIGRLTIRNPAYVMPSLRKTLIQLLTELEFSGDGRNKEESARLLGHLISASEKLIKPYVEPILKALLPKLRDSNPRVASCVLAALGELSVVGGEEMVQHIDSLLPLIIDTLQDQSSTSKREVALKTLAQLASSTGYVIKPFSKYPMLLDTLLNAIKTERIGSIRREVIKVLGILGSLDPYKHKMNELGKRREDPKANDDKNNNMTNEVITISPSNEDYYPTVALTALMKILRDPSLSSHHTSVIQAVMYIFKSLSLKSIPFLPQIMPPFLHAMNTGEPLFREFLFQQLGSLVSIVKQHIRDYLVNVFALIEKYWNSNLLIPIIKLVEEISSALNDEFKVYLPNLIPQMLNVLHTDRSPKRSPTTKVLRALEVFGTNLDDYLHLVIPAIVKLFEQVDVTTQVRTLAIQTIGRLCKKLNFSDYASRIIHPLARVLDSTESELREETLNTLCALVYQLGSDYAIFIPMVGKVLARREIQSTNYELLISKLLKNQQLMLTPGSGDDGGMGANRFGGDHNGHHLGEDHNNTSTPLDIGVKKLKANEQHLKNAWETSQRSTKEDWGEWIRRFSVELLRESPSPALRSCLSLAQDYHPLVKELFNAGFVSCWTELHEQFQEELVRSLETALLSPNIPPEILQTLLNLAEFMELHEKPLPIDIRTLGALAEKCHAYAKALHYKESEFSQSPSSTIEALISINNQLQQPEAAIGILIYAQKNHSVELKEGWYEKLRRWEDALAAYEKKQKDDPNGGTIENTMGILRCLHALGEWERLSALSSETWKSDINDHTRATIAPLAAAAAWNLVNWDKMDEYVCAMNKDTVEGSFYRAILEVHHDNFTLAHGFIDHARTLVDTELTALLGESYNRAYKVVVRLQQLSELEEIIEYKKCVDSPERRNMIKNTWKTRLRGCQHNVDIWQSILAVHSLVISPHEELDMWLKFVGLCRKGSRLGLAQKTLTMLMGKDPSTTSQFGSVLPNTHPRITFAYIKQLWSAGAKQPAFEKLRTFVQALRDTDDLPLQGRAYLKLGEWQLALGDTLSEASIPHIISSFKAATECDPNWYKAWHSWALINFEVVSHYEQNGGTPEQIGAHLLPAVHSFFKSISLGPDRSLQDTLRLLTLWFKHGAQKEVEAALMQGFNTISIDTWLHVIPQIIARIHAPVLPVRRLLHELIDTIGKEHPQALVYPLTVATKSHSPARLAAAKSLMDKMRKHSATLVDQALPVSQELVRTAILWLEMWYEGLEEASRQYFGDHNPEAMLATLAPLHQILEKGPETTSETSFLQAFGRDLQEALEWSKKYEKTRKEGDLNQAWDLYYQVFRRIYKQLPQMSSLELQYVSPKLLNSNNMELAVPGTYKASENVIRIQSFSQALSVIPSKQRPRKLTIIGSDGLEYTFLLKGHEDLRQDERVMQLFSLVNNLLSANHETAKSHLSIRRFSVIPLSPNSGLIGWVPHSDTLHTLIKDFRDSNKILLSIEHRLMLQMCSDYDNLTLLQKVEVFQYALENSNGLDLHKVLWLKSRNSEVWLDRRTNYTRSLAVMSMVGYILGLGDRHPSNLMLDRHTGHILHIDFGDCFEVAMHRDKYPEKIPFRLTRMLINAMEVSGIEGNFRLTCEAVMNVLRNNKESLMAVLEAFVHDPLINWRLLTPNENNTKHKATNIASNNSTSNSTTKIEGDLNTIDNPINKESPDHEAVAGSLKSSPVHGRQIARNQRVGVDAEQVEAEIVPEALNERALSVINRVNKKLTGRDFSSNETLDVPEQVQKLIDQATSHENLCLSYVGWCPFW |
| 3897 | sp|Q61143|TRPC6\_MOUSE | MSQSPRFVTRRGGSLKAAPGAGTRRNESQDYLLMDELGDDGYPQLPLPPYGYYPSFRGNENRLTHRRQTILREKGRRLANRGPAYMFNDHSTSLSIEEERFLDAAEYGNIPVVRKMLEECHSLNVNCVDYMGQNALQLAVANEHLEITELLLKKENLSRVGDALLLAISKGYVRIVEAILNHPAFAEGKRLATSPSQSELQQDDFYAYDEDGTRFSHDVTPIILAAHCQEYEIVHTLLRKGARIERPHDYFCKCTECSQKQKHDSFSHSRSRINAYKGLASPAYLSLSSEDPVMTALELSNELAVLANIEKEFKNDYRKLSMQCKDFVVGLLDLCRNTEEVEAILNGDAETRQPGDFGRPNLSRLKLAIKYEVKKFVAHPNCQQQLLSIWYENLSGLRQQTMAVKFLVVLAVAIGLPFLALIYWCAPCSKMGKILRGPFMKFVAHAASFTIFLGLLVMNAADRFEGTKLLPNETSTDNARQLFRMKTSCFSWMEMLIISWVIGMIWAECKEIWTQGPKEYLFELWNMLDFGMLAIFAASFIARFMAFWHASKAQSIIDANDTLKDLTKVTLGDNVKYYNLARIKWDPTDPQIISEGLYAIAVVLSFSRIAYILPANESFGPLQISLGRTVKDIFKFMVIFIMVFVAFMIGMFNLYSYYIGAKQNEAFTTVEESFKTLFWAIFGLSEVKSVVINYNHKFIENIGYVLYGVYNVTMVIVLLNMLIAMINSSFQEIEDDADVEWKFARAKLWFSYFEEGRTLPVPFNLVPSPKSLLYLLLKFKKWMCELIQGQKQGFQEDAEMNKRNEEKKFGISGSHEDLSKFSLDKNQLAHNKQSSTRSSEDYHLNSFSNPPRQYQKIMKRLIKRYVLQAQIDKESDEVNEGELKEIKQDISSLRYELLEEKSQNTEDLAELIRKLGERLSLEPKLEESRR |
| 3898 | sp|O94972|TRI37\_HUMAN | MDEQSVESIAEVFRCFICMEKLRDARLCPHCSKLCCFSCIRRWLTEQRAQCPHCRAPLQLRELVNCRWAEEVTQQLDTLQLCSLTKHEENEKDKCENHHEKLSVFCWTCKKCICHQCALWGGMHGGHTFKPLAEIYEQHVTKVNEEVAKLRRRLMELISLVQEVERNVEAVRNAKDERVREIRNAVEMMIARLDTQLKNKLITLMGQKTSLTQETELLESLLQEVEHQLRSCSKSELISKSSEILMMFQQVHRKPMASFVTTPVPPDFTSELVPSYDSATFVLENFSTLRQRADPVYSPPLQVSGLCWRLKVYPDGNGVVRGYYLSVFLELSAGLPETSKYEYRVEMVHQSCNDPTKNIIREFASDFEVGECWGYNRFFRLDLLANEGYLNPQNDTVILRFQVRSPTFFQKSRDQHWYITQLEAAQTSYIQQINNLKERLTIELSRTQKSRDLSPPDNHLSPQNDDALETRAKKSACSDMLLEGGPTTASVREAKEDEEDEEKIQNEDYHHELSDGDLDLDLVYEDEVNQLDGSSSSASSTATSNTEENDIDEETMSGENDVEYNNMELEEGELMEDAAAAGPAGSSHGYVGSSSRISRRTHLCSAATSSLLDIDPLILIHLLDLKDRSSIENLWGLQPRPPASLLQPTASYSRKDKDQRKQQAMWRVPSDLKMLKRLKTQMAEVRCMKTDVKNTLSEIKSSSAASGDMQTSLFSADQAALAACGTENSGRLQDLGMELLAKSSVANCYIRNSTNKKSNSPKPARSSVAGSLSLRRAVDPGENSRSKGDCQTLSEGSPGSSQSGSRHSSPRALIHGSIGDILPKTEDRQCKALDSDAVVVAVFSGLPAVEKRRKMVTLGANAKGGHLEGLQMTDLENNSETGELQPVLPEGASAAPEEGMSSDSDIECDTENEEQEEHTSVGGFHDSFMVMTQPPDEDTHSSFPDGEQIGPEDLSFNTDENSGR |
| 3899 | sp|O77811|TRFL\_HORSE | LGLCLAAPRKSVRWCTISPAEAAKCAKFQRNMKKVRGPSVSCIRKTSSFECIQAIAANKADAVTLDGGLVYEAGLHPYKLRPVAAEVYQTRGKPQTRYYAVAVVKKGSGFQLNQLQGVKSCHTGLGRSAGWNIPIGTLRPYLNWTGPPEPLQKAVANFFSASCVPCADGKQYPNLCRLCAGTEADKCACSSQEPYFGYSGAFKCLENGAGDVAFVKDSTVFENLPDEADRDKYELLCPDNTRKPVDAFKECHLARVPSHAVVARSVDGREDLIWRLLHRAQEEFGRNKSSAFQLFKSTPENKDLLFKDSALGFVRIPSQIDSGLYLGANYLTATQNLRETAAEVAARRERVVWCAVGPEEERKCKQWSDVSNRKVACASASTTEECIALVLKGEADALNLDGGFIYVAGKCGLVPVLAENQKSQNSNAPDCVHRPPEGYLAVAVVRKSDADLTWNSLSGKKSCHTGVGRTAAWNIPMGLLFNQTGSCKFDKFFSQSCAPGADPQSSLCALCVGNNENENKCMPNSEERYYGYTGAFRCLAEKAGDVAFVKDVTVLQNTDGKNSEPWAKDLKQEDFELLCLDGTRKPVAEAESCHLARAPNHAVVSQSDRAQHLKKVLFLQQDQFGGNGPDCPGKFCLFKSETKNLLFNDNTECLAELQGKTTYEQYLGSEYVTSITNLRRCSSSPLLEACAFLRA |
| 3900 | sp|F6ZDS4|TPR\_MOUSE | MTSGGSASRSGHRGVPMTSRGFDGSRRGSLRRAGARETASEAADGAAPAAGLRASPCSLASPSAAAAVAAIPADMAAVLQQVLERPELNKLPKSTQNKLEKFLAEQQSEIDCLKGRHEKFKVESEQQYFEIEKRLSQSQERLVTETRECQNLRLELEKLNNQVKVLTEKTKELETAQDRNLGIQSQFTRAKEELEAEKRDLIRTNERLSQEVEYLTEDVKRLNEKLKESNTTKGELQLKLDELQASDVAVKYREKRLEQEKELLHNQNSWLNTELKTKTDELLALGREKGNEILELKCNLENKKEEVLRLEEQMNGLKTSNEHLQKHVEDLLTKLKEAKEQQASMEEKFHNELNAHIKLSNLYKSAADDSEAKSNELTRAVDELHKLLKEAGEANKTIQDHLLQVEESKDQMEKEMLEKIGKLEKELENANDLLSATKRKGAILSEEELAAMSPTAAAVAKIVKPGMKLTELYNAYVETQDQLLLEKQENKRINKYLDEIVKEVEAKAPILKRQREEYERAQKAVASLSAKLEQAMKEIQRLQEDTDKANKHSSVLERDNQRMEIQIKDLSQQIRVLLMELEEARGNHVIRDEEVSSADISSSSEVISQHLVSYRNIEELQQQNQRLLFALRELGETREREEQETTSSKIAELQHKLENSLAELEQLRESRQHQMQLVDSIVRQRDMYRILLSQTTGMAIPLQASSLDDISLLSTPKRSSTSQTVSTPAPEPVIDSTEAIEAKAALKQLQEIFENYKKEKIDSEKLQNEQLEKLQEQVTDLRSQNTKISTQLDFASKRYEMLQDNVEGYRREITSLQERNQKLTATTQKQEQIINTMTQDLRGANEKLAVAEVRAENLKKEKEMLKLSEVRLSQQRESLLAEQRGQNLLLTNLQTIQGILERSETETKQRLNSQIEKLEHEISHLKKKLENEVEQRHTLTRNLDVQLLDTKRQLDTEINLHLNTKELLKNAQKDIATLKQHLNNMEAQLASQSTQRTGKGQPGDRDDVDDLKSQLRQAEEQVNDLKERLKTSTSNVEQYRAMVTSLEDSLNKEKQVTEEVHKNIEVRLKESAEFQTQLEKKLMEVEKEKQELQDDKRKAIESMEQQLSELKKTLSTVQNEVQEALQRASTALSNEQQARRDCQEQAKIAVEAQNKYERELMLHAADVEALQAAKEQVSKMTSIRQHLEETTQKAESQLLECKASWEERERVLKDEVSKSVSRCEDLEKQNRLLHDQIEKLSDKVVTSMKDAVQAPLNVSLNEEGKSQEQILEILRFIRREKEIAETRFEVAQVESLRYRQRVELLERELQELQDSLNVEREKVQVTAKTMAQHEELMKKTETMNVVMETNKMLREEKERLEQNLQQMQAKVRKLELDILPLQEANAELSEKSGMLQAEKKLLEEDVKRWKARNQQLINQQKDPDTEEYRKLLSEKEIHTKRIQQLNEEVGRLKAEIARSNASLTNNQNLIQSLREDLSKARTEKEGIQKDLDAKIIDIQEKVKTITQVKKIGRRYKTQFEELKAQQNKAMETSTQSSGDHQEQHISVQEMQELKDTLSQSETKTKSLEGQVENLQKTLSEKETEARSLQEQTVQLQSELSRLRQDLQDKTTEEQLRQQMNEKTWKTLALAKSKITHLSGVKDQLTKEIEELKQRNGALDQQKDELDVRMTALKSQYEGRISRLERELREHQERHLEQRDEPQEPTNKAPEQQRQITLKTTPASGERGIASTSDPPTANIKPTPVVSTPSKVTAAAMAGNKSTPRASIRPMVTPATVTNPTTTPTATVMPTTQVESQEAMQSEGPVEHVPVFGNASGSVRSTSPNVQPSISQPILTVQQQTQATAFVQPTQQSHPQIEPTNQELSPNIVEVVQSSPVERPSTSTAVFGTVSATPSSSLPKRTREEEEDSTMEAGDQVSEDTVEMPLPKKLKMVTPVGTEEEVMAEESTDGEAETQAYNQDSQDSIGEGVTQGDYTPMEDSEETSQSLQIDLGPLQSDQQTTSSQDGQGKGDDVIVIDSDDEDDDEENDGEHEDYEEDEDDDDDEEDDTGMGDEGEDSNEGTGSADGNDGYEADDAEGGDGTDPGTETEESMGGAESHQRAADSQNSGEGNTSAAESSFSQEVAREQQPTSASERQTPQAPQSPRRPPHPLPPRLTIHAPPQELGPPVQRIQMTRRQSVGRGLQLTPGIGGMQQHFFDDEDRTVPSTPTLVVPHRTDGFAEAIHSPQVAGVPRFRFGPPEDMPQTSSSHSDLGQLASQGGLGMYETPLFLAHEEESGGRSVPTTPLQVAAPVTVFTESTTSDASEHASQSVPMVTTSTGTLSTTNETAAGDDGDEVFVEAESEGISSEAGLEIDSQQEEEPVQASDESDLPSTSQDPPSSSSVDTSSSQPKPFRRVRLQTTLRQGVRGRQFNRQRGISHAMGGRGGINRGNIN |
| 3901 | sp|Q9BXA6|TSSK6\_HUMAN | MSGDKLLSELGYKLGRTIGEGSYSKVKVATSKKYKGTVAIKVVDRRRAPPDFVNKFLPRELSILRGVRHPHIVHVFEFIEVCNGKLYIVMEAAATDLLQAVQRNGRIPGVQARDLFAQIAGAVRYLHDHHLVHRDLKCENVLLSPDERRVKLTDFGFGRQAHGYPDLSTTYCGSAAYASPEVLLGIPYDPKKYDVWSMGVVLYVMVTGCMPFDDSDIAGLPRRQKRGVLYPEGLELSERCKALIAELLQFSPSARPSAGQVARNCWLRAGDSG |
| 3902 | sp|P49815|TSC2\_HUMAN | MAKPTSKDSGLKEKFKILLGLGTPRPNPRSAEGKQTEFIITAEILRELSMECGLNNRIRMIGQICEVAKTKKFEEHAVEALWKAVADLLQPERPLEARHAVLALLKAIVQGQGERLGVLRALFFKVIKDYPSNEDLHERLEVFKALTDNGRHITYLEEELADFVLQWMDVGLSSEFLLVLVNLVKFNSCYLDEYIARMVQMICLLCVRTASSVDIEVSLQVLDAVVCYNCLPAESLPLFIVTLCRTINVKELCEPCWKLMRNLLGTHLGHSAIYNMCHLMEDRAYMEDAPLLRGAVFFVGMALWGAHRLYSLRNSPTSVLPSFYQAMACPNEVVSYEIVLSITRLIKKYRKELQVVAWDILLNIIERLLQQLQTLDSPELRTIVHDLLTTVEELCDQNEFHGSQERYFELVERCADQRPESSLLNLISYRAQSIHPAKDGWIQNLQALMERFFRSESRGAVRIKVLDVLSFVLLINRQFYEEELINSVVISQLSHIPEDKDHQVRKLATQLLVDLAEGCHTHHFNSLLDIIEKVMARSLSPPPELEERDVAAYSASLEDVKTAVLGLLVILQTKLYTLPASHATRVYEMLVSHIQLHYKHSYTLPIASSIRLQAFDFLLLLRADSLHRLGLPNKDGVVRFSPYCVCDYMEPERGSEKKTSGPLSPPTGPPGPAPAGPAVRLGSVPYSLLFRVLLQCLKQESDWKVLKLVLGRLPESLRYKVLIFTSPCSVDQLCSALCSMLSGPKTLERLRGAPEGFSRTDLHLAVVPVLTALISYHNYLDKTKQREMVYCLEQGLIHRCASQCVVALSICSVEMPDIIIKALPVLVVKLTHISATASMAVPLLEFLSTLARLPHLYRNFAAEQYASVFAISLPYTNPSKFNQYIVCLAHHVIAMWFIRCRLPFRKDFVPFITKGLRSNVLLSFDDTPEKDSFRARSTSLNERPKSLRIARPPKQGLNNSPPVKEFKESSAAEAFRCRSISVSEHVVRSRIQTSLTSASLGSADENSVAQADDSLKNLHLELTETCLDMMARYVFSNFTAVPKRSPVGEFLLAGGRTKTWLVGNKLVTVTTSVGTGTRSLLGLDSGELQSGPESSSSPGVHVRQTKEAPAKLESQAGQQVSRGARDRVRSMSGGHGLRVGALDVPASQFLGSATSPGPRTAPAAKPEKASAGTRVPVQEKTNLAAYVPLLTQGWAEILVRRPTGNTSWLMSLENPLSPFSSDINNMPLQELSNALMAAERFKEHRDTALYKSLSVPAASTAKPPPLPRSNTVASFSSLYQSSCQGQLHRSVSWADSAVVMEEGSPGEVPVLVEPPGLEDVEAALGMDRRTDAYSRSSSVSSQEEKSLHAEELVGRGIPIERVVSSEGGRPSVDLSFQPSQPLSKSSSSPELQTLQDILGDPGDKADVGRLSPEVKARSQSGTLDGESAAWSASGEDSRGQPEGPLPSSSPRSPSGLRPRGYTISDSAPSRRGKRVERDALKSRATASNAEKVPGINPSFVFLQLYHSPFFGDESNKPILLPNESQSFERSVQLLDQIPSYDTHKIAVLYVGEGQSNSELAILSNEHGSYRYTEFLTGLGRLIELKDCQPDKVYLGGLDVCGEDGQFTYCWHDDIMQAVFHIATLMPTKDVDKHRCDKKRHLGNDFVSIVYNDSGEDFKLGTIKGQFNFVHVIVTPLDYECNLVSLQCRKDMEGLVDTSVAKIVSDRNLPFVARQMALHANMASQVHHSRSNPTDIYPSKWIARLRHIKRLRQRICEEAAYSNPSLPLVHPPSHSKAPAQTPAEPTPGYEVGQRKRLISSVEDFTEFV |
| 3903 | sp|P46460|NSF\_MOUSE | MAGRTMQAARCPTDELSLSNCAVVNEKDFQSGQHVMVRTSPNHKYIFTLRTHPSVVPGCIAFSLPQRKWAGLSIGQDIEVALYSFDKAKQCIGTMTIEIDFLQKKNIDSNPYDTDKMAAEFIQQFNNQAFSVGQQLVFSFNDKLFGLLVKDIEAMDPSILKGEPASGKRQKIEVGLVVGNSQVAFEKAENSSLNLIGKAKTKENRQSIINPDWNFEKMGIGGLDKEFSDIFRRAFASRVFPPEIVEQMGCKHVKGILLYGPPGCGKTLLARQIGKMLNAREPKVVNGPEILNKYVGESEANIRKLFADAEEEQRRLGANSGLHIIIFDEIDAICKQRGSMAGSTGVHDTVVNQLLSKIDGVEQLNNILVIGMTNRPDLIDEALLRPGRLEVKMEIGLPDEKGRLQILHIHTARMRGHQLLSADVDIKELAVETKNFSGAELEGLVRAAQSTAMNRHIKASTKVEVDMEKAESLQVTRGDFLASLENDIKPAFGTNQEDYASYIMNGIIKWGDPVTRVLDDGELLVQQTKNSDRTPLVSVLLEGPPHSGKTALAAKIAEESNFPFIKICSPDKMIGFSETAKCQAMKKIFDDAYKSQLSCVVVDDIERLLDYVPIGPRFSNLVLQALLVLLKKAPPQGRKLLIIGTTSRKDVLQEMEMLNAFSTTIHVPNIATGEQLLEALELLGNFKDKERTTIAQQVKGKKVWIGIKKLLMLIEMSLQMDPEYRVRKFLALMREEGASPLDFD |
| 3904 | sp|Q9MYW9|OPRM\_MACMU | MDSSAVPTNASNCTDALAHSSCSPARSPGSWVNLSHLDGNLSDPCGPNRTDLGGRDSLCPPTGSPSMITAITIMALYSIVCVVGLFGNFLVMYVIVRYTKMKTATNIYIFNLALADALVTSTLPFQSVNYLMGTWPFGTILCKIVISIDYYNMSTSIFTLCTMSVDRYIAVCHPVKALDFRTPRNAKIINVCNWILSSAIGLPVMFMATTKYRQGSIDCTLTFSHPSWYWENLLKICVFIFAFIMPVLIITVCYGLMILRLKSVRMLSGSKEKDRNLRRITRMVLVVVAVFIICWTPIHIYVIIKALVTIPETTFQTVSWHFCIALGYTNSCLNPVLYAFLDEDFKRCFREFCIPTSSNIEQQNSTRIRQNTRDHPSTANTVDRTNHQLENLEAETAPLP |
| 3905 | sp|P81455|OSTCN\_CANLF | YLDSGLGAPVPYPDPLEPKREVCELNPNCDELADHIGFQEAYQRFYGPV |
| 3906 | sp|P01522|O16A\_CONGE | MKLTCVVIVAVLLLTACQLITADDSRGTQKHRALGSTTELSLSTRCKSPGSSCSPTSYNCCRSCNPYTKRCYG |
| 3907 | sp|Q9NXG6|P4HTM\_HUMAN | MAAAAVTGQRPETAAAEEASRPQWAPPDHCQAQAAAGLGDGEDAPVRPLCKPRGICSRAYFLVLMVFVHLYLGNVLALLLFVHYSNGDESSDPGPQHRAQGPGPEPTLGPLTRLEGIKVGHERKVQLVTDRDHFIRTLSLKPLLFEIPGFLTDEECRLIIHLAQMKGLQRSQILPTEEYEEAMSTMQVSQLDLFRLLDQNRDGHLQLREVLAQTRLGNGWWMTPESIQEMYAAIKADPDGDGVLSLQEFSNMDLRDFHKYMRSHKAESSELVRNSHHTWLYQGEGAHHIMRAIRQRVLRLTRLSPEIVELSEPLQVVRYGEGGHYHAHVDSGPVYPETICSHTKLVANESVPFETSCRYMTVLFYLNNVTGGGETVFPVADNRTYDEMSLIQDDVDLRDTRRHCDKGNLRVKPQQGTAVFWYNYLPDGQGWVGDVDDYSLHGGCLVTRGTKWIANNWINVDPSRARQALFQQEMARLAREGGTDSQPEWALDRAYRDARVEL |
| 3908 | sp|G8XQX1|OXLA\_DABRR | MNVFFMFSLLFLATLGSCADDKNPLEECFREDDYEEFLEIAKNGLKKTSNPKHIVIVGAGMSGLSAAYVLAGAGHKVTVLEASERPGGRVRTHRNVKEGWYANLGPMRVPEKHRIIREYIRKFGLKLNEFVQETENGWYFIKNIRKRVGEVKKDPGLLKYPVKPSEAGKSAGQLYQESLGKAVEELKRTNCSYILNKYDTYSTKEYLIKEGNLSPGAVDMIGDLLNEDSGYYVSFIESLKHDDIFAYEKRFDEIVGGMDQLPTSMYRAIEESVHFKARVIKIQQNAEKVTVTYQTTQKNLLLETADYVIVCTTSRAARRITFKPPLPPKKAHALRSVHYRSGTKIFLTCTKKFWEDDGIQGGKSTTDLPSRFIYYPNHNFTTGVGVIIAYGIGDDANFFQALNLNECADIVFNDLSSIHQLPKKDLQTFCYPSIIQKWSLDKYAMGAITTFTPYQFQHFSEALTAPVGRIFFAGEYTANAHGWIDSTIKSGLTAARDVNRASEL |
| 3909 | sp|P46873|OSM3\_CAEEL | MAESVRVAVRCRPFNQREKDLNTTLCVGMTPNVGQVNLNAPDGAAKDFTFDGAYFMDSTGEQIYNDIVFPLVENVIEGYNGTVFAYGQTGSGKTFSMQGIETIPAQRGVIPRAFDHIFTATATTENVKFLVHCSYLEIYNEEVRDLLGADNKQKLEIKEQPDRGVYVAGLSMHVCHDVPACKELMTRGFNNRHVGATLMNKDSSRSHSIFTVYVEGMTETGSIRMGKLNLVDLAGSERQSKTGATGDRLKEATKINLSLSALGNVISALVDGKSKHIPYRDSKLTRLLQDSLGGNTKTIMIACVSPSSDNYDETLSTLRYANRAKNIKNKPTINEDPKDALLREYQEEIARLKSMVQPGAVGVGAPAQDAFSIEEERKKLREEFEEAMNDLRGEYEREQTSKAELQKDLESLRADYERANANLDNLNPEEAAKKIQQLQDQFIGGEEAGNTQLKQKRMKQLKEAETKTQKLAAALNVHKDDPLLQVYSTTQEKLDAVTSQLEKEVKKSKGYEREIEDLHGEFELDRLDYLDTIRKQDQQLKLLMQIMDKIQPIIKKDTNYSNVDRIKKEAVWNEDESRWILPEMSMSRTILPLANNGYMQEPARQENTLLRSNFDDKLRERLAKSDSENLANSYFKPVKQINVINKYKSDQKLSTSKSLFPSKTPTFDGLVNGVVYTDALYERAQSAKRPPRLASLNPK |
| 3910 | sp|P80206|OTX2\_MOUSE | MMSYLKQPPYAVNGLSLTTSGMDLLHPSVGYPATPRKQRRERTTFTRAQLDVLEALFAKTRYPDIFMREEVALKINLPESRVQVWFKNRRAKCRQQQQQQQNGGQNKVRPAKKKSSPAREVSSESGTSGQFTPPSSTSVPTIASSSAPVSIWSPASISPLSDPLSTSSSCMQRSYPMTYTQASGYSQGYAGSTSYFGGMDCGSYLTPMHHQLPGPGATLSPMGTNAVTSHLNQSPASLSTQGYGASSLGFNSTTDCLDYKDQTASWKLNFNADCLDYKDQTSSWKFQVL |
| 3911 | sp|Q99983|OMD\_HUMAN | MGFLSPIYVIFFFFGVKVHCQYETYQWDEDYDQEPDDDYQTGFPFRQNVDYGVPFHQYTLGCVSECFCPTNFPSSMYCDNRKLKTIPNIPMHIQQLYLQFNEIEAVTANSFINATHLKEINLSHNKIKSQKIDYGVFAKLPNLLQLHLEHNNLEEFPFPLPKSLERLLLGYNEISKLQTNAMDGLVNLTMLDLCYNYLHDSLLKDKIFAKMEKLMQLNLCSNRLESMPPGLPSSLMYLSLENNSISSIPEKYFDKLPKLHTLRMSHNKLQDIPYNIFNLPNIVELSVGHNKLKQAFYIPRNLEHLYLQNNEIEKMNLTVMCPSIDPLHYHHLTYIRVDQNKLKEPISSYIFFCFPHIHTIYYGEQRSTNGQTIQLKTQVFRRFPDDDDESEDHDDPDNAHESPEQEGAEGHFDLHYYENQE |
| 3912 | sp|O82660|P2SAF\_ARATH | MASLQLCDGYLLFKPSVSPRFLSQRISHRLIPKASSSPPPSPSPSSSSSSLSFSRRELLYQSAAVSLSLSSIVGPARADEQLSEWERVFLPIDPGVVLLDIAFVPDEPSRGFLLGTRQTLLETKDGGSTWNPRSIPSAEEEDFNYRFNSISFKGKEGWIIGKPAILLYTADAGENWDRIPLSSQLPGDMVFIKATEDKSAEMVTDEGAIYVTSNRGYNWKAAIQETVSATLNRTVSSGISGASYYTGTFSAVNRSPDGRYVAVSSRGNFFLTWEPGQPYWQPHNRAVARRIQNMGWRADGGLWLLVRGGGLYLSKGTGITEEFEEVPVQSRGFGILDVGYRSEEEAWAAGGSGILLRTRNGGKSWNRDKAADNIAANLYAVKFVDDKKGFVLGNDGVLLRYVG |
| 3913 | sp|P49599|P2C57\_ARATH | MALLRPHLHRFHSNTLRHSAYPSADAGGGLVVYPTYGRHRCSAIAIDAPSSLTGVTPIRWGYTSVQGFRDEMEDDIVIRSDAVDSFSYAAVFDGHAGSSSVKFLREELYKECVGALQAGSLLNGGDFAAIKEALIKAFESVDRNLLKWLEANGDEEDESGSTATVMIIRNDVSFIAHIGDSCAVLSRSGQIEELTDYHRPYGSSRAAIQEVKRVKEAGGWIVNGRICGDIAVSRAFGDIRFKTKKNDMLKKGVDEGRWSEKFVSRIEFKGDMVVATPDIFQVPLTSDVEFIILASDGLWDYMKSSDVVSYVRDQLRKHGNVQLACESLAQVALDRRSQDNISIIIADLGRTEWKNLPAQRQNVVVELVQAATTIGLVTVGIWMSSHLS |
| 3914 | sp|Q9CPV9|P2Y12\_MOUSE | MDVPGVNTTSANTTFSPGTSTLCVRDYKITQVLFPLLYTVLFFAGLITNSLAMRIFFQIRSKSNFIIFLKNTVISDLLMILTFPFKILSDAKLGAGPLRTLVCQVTSVTFYFTMYISISFLGLITIDRYLKTTRPFKTSSPSNLLGAKILSVVIWAFMFLISLPNMILTNRRPKDKDVTKCSFLKSEFGLVWHEIVNYICQVIFWINFLIVIVCYSLITKELYRSYVRTRGSAKVPKKKVNVKVFIIIAVFFICFVPFHFARIPYTLSQTRAVFDCSAENTLFYVKESTLWLTSLNACLDPFIYFFLCKSFRNSLTSMLRCSNSTSTSGTNKKKGQEGGEPSEETPM |
| 3915 | sp|P01525|NXB4\_CERLA | ASATWGAAYPACENNCRKKYDLCIRCQGKWAGKRGKCAAHCIIQKNNCKGKCKKE |
| 3916 | sp|O08760|OGG1\_MOUSE | MLFRSWLPSSMRHRTLSSSPALWASIPCPRSELRLDLVLASGQSFRWKEQSPAHWSGVLADQVWTLTQTEDQLYCTVYRGDDSQVSRPTLEELETLHKYFQLDVSLAQLYSHWASVDSHFQRVAQKFQGVRLLRQDPTECLFSFICSSNNNIARITGMVERLCQAFGPRLIQLDDVTYHGFPNLHALAGPEAETHLRKLGLGYRARYVRASAKAILEEQGGPAWLQQLRVAPYEEAHKALCTLPGVGAKVADCICLMALDKPQAVPVDVHVWQIAHRDYGWHPKTSQAKGPSPLANKELGNFFRNLWGPYAGWAQAVLFSADLRQPSLSREPPAKRKKGSKRPEG |
| 3917 | sp|Q9UKK6|NXT1\_HUMAN | MASVDFKTYVDQACRAAEEFVNVYYTTMDKRRRLLSRLYMGTATLVWNGNAVSGQESLSEFFEMLPSSEFQISVVDCQPVHDEATPSQTTVLVVICGSVKFEGNKQRDFNQNFILTAQASPSNTVWKIASDCFRFQDWAS |
| 3918 | sp|Q9U1H9|NXF1\_DROME | MPKRGGGSSQRYNNNVGNGGGRYNAPEDFDDFDVEDRQRRKDRNKRRVSFKPSQCLHNKKDIKLRPEDLRRWDEDDDMSDMTTAVKDRPTSRRRGSPIPRGKFGKLMPNSFGWYQVTLQNAQIYEKETLLSALLAAMSPHVFIPQYWRVERNCVIFFTDDYEAAERIQHLGKNGHLPDGYRLMPRVRSGIPLVAIDDAFKEKMKVTMAKRYNIQTKALDLSRFHADPDLKQVFCPLFRQNVMGAAIDIMCDNIPDLEALNLNDNSISSMEAFKGVEKRLPNLKILYLGDNKIPSLAHLVVLRNLSILELVLKNNPCRSRYKDSQQFISEVRRKFPKLVKLDGETLEPQITFDLSEQGRLLETKASYLCDVAGAEVVRQFLDQYFRIFDSGNRQALLDAYHEKAMLSISMPSASQAGRLNSFWKFNRNLRRLLNGEENRTRNLKYGRLACVSTLDEWPKTQHDRRTFTVDLTIYNTSMMVFTVTGLFKELNDETNNPASMELYDVRHFARTYVVVPQNNGFCIRNETIFITNATHEQVREFKRSQHQPAPGAMPSTSSAVTSPQAGAAAGLQGRLNALGVATGPVAILSGDPLAATAPVNSGSAAISTTAVAPGAQDESTKMQMIEAMSAQSQMNVIWSRKCLEETNWDFNHAAFVFEKLFKENKIPPEAFMK |
| 3919 | sp|Q8K4K6|PANK1\_MOUSE | MRGRRAPRPGSTEVPAAARDADTLRARAASPVRGAQLAEDVGTPTGGGEERRGHQLPTAAPRLRESKPQGGSEDRGTADRDLQRGCQSRSPRTAPPVPGMGDRGAQHERAALQSPGAPEGAAAAVNGLLHNGFHPSAASSRDPPAPRFQLPSELQPQPLFAQHDSPAKKCRLRRRMDSGRKNRPPFPWFGMDIGGTLVKLVYFEPKDITAEEEQEEVENLKSIRKYLTSNTAYGKTGIRDVHLELKNLTMCGRKGNLHFIRFPTCAMHLFIQMGSEKNFSSLHTTLCATGGGAFKFEEDFRMIADLQLHKLDELDCLIQGLLYVDSVGFNGKPECYYFENPTNPELCQKKPYCLDNPYPMLLVNMGSGVSILAVYSKDNYKRVTGTSLGGGTFLGLCCLLTGCETFEEALDMAAKGDSTNVDKLVKDIYGGDYERFGLQGSAVASSFGNMMSKEKRESISKEDLARATLVTITNNIGSIARMCALNENIDRVVFVGNFLRINMVSMKLLAYAMDFWSKGQLKALFLEHEGYFGAVGALLELFKMTDTQ |
| 3920 | sp|Q58576|PAN\_METJA | MVFEEFISTELKKEKKAFTEEFKEEKEINDNSNLKNDLLKEELQEKARIAELESRILKLELEKKELERENLQLMKENEILRRELDRMRVPPLIVGTVVDKVGERKVVVKSSTGPSFLVNVSHFVNPDDLAPGKRVCLNQQTLTVVDVLPENKDYRAKAMEVDERPNVRYEDIGGLEKQMQEIREVVELPLKHPELFEKVGIEPPKGILLYGPPGTGKTLLAKAVATETNATFIRVVGSELVKKFIGEGASLVKDIFKLAKEKAPSIIFIDEIDAIAAKRTDALTGGDREVQRTLMQLLAEMDGFDARGDVKIIGATNRPDILDPAILRPGRFDRIIEVPAPDEKGRLEILKIHTRKMNLAEDVNLEEIAKMTEGCVGAELKAICTEAGMNAIRELRDYVTMDDFRKAVEKIMEKKKVKVKEPAHLDVLYR |
| 3921 | sp|Q0ZM14|PCD15\_CHICK | MLQQFCLWKWLAVGIAVATILASSLAQNDEDCKLARTGPPATIVPIDEESRNGTILVDNMLIKGTAAGPDPTIELSLKDNVDYWVILDPISQRLYLNSTGRVLDRDPPMSIQSIVVQVQCVNKKVGTIINHEVRIVVRDRNDNSPQFQQQRYYVAVNELTPVGTTIFTGFSGNNGATDIDDGPNGQIEYVIQYNPNDKTSNRTFDIPLTLSGAVVLRERLNYEEKTRYFVIVQANDRAQNLHERRTSTTTLTVDVLDGDDLGPMFLPCVLVNNTRDCRPLTYQASLPELTDPVHVNPISVTPPIQAIDQDRNIQPPSDRPGILYSILVGTPEDYPQYFHMNLTTAELTLLKPINRDLHQKFDLVIKAEQDNGHPLPAFANLHIEVLDENNQKPYFTKSTYEGFILESSPVGTTISDSRNLTSPLQITVLDNDVEETKDPQLHLFLNDYNTFFTVTQSGITRYLTLLQPVDREAQQLYTFSMIASDGVQESTPVTVNIVVIDANDNSPTFSNISYNVKIYTDMGPGEGVIKLTAVDADEGPNGQIVYEILAGDQGDFIINDRTGLIAIAPGVVLSVGRSYALTVKASDSAPPAQRRSSITTVYIEVLPPNNQSPPRFPQLMYSLEVSEAMRTGAILLNLQAFDREGDPIRYLIENGDPQQVFNLSQSSGLLALGKPLDRESTDRYILIVTASDGRPDGTSTATVNIVVTDVNDNGPVFDMFLPKNLSVQEEEANAFVGQVRATDPDAGVNGQVHYSLANFKNLFRITSNGSIYTAVKLNREVRDYYELIVEATDGAVDPRRSTLTLAIKVLDIDDNSPVFTNASYSVLVPENLPPGTVFLQIEAKDVDLGSNVTYRIRTQEALEYFALNKYTGELSLLKSLDYESFSDTDATFTFLVEAFDSKGTMPPGLATVTVRVKDMNDYSPVFSKTLYRGMVAPDAVKGTVITTVSAEDQDPPGTPASRVRYKVDVVQFPYSASIFDVEENSGRVVTRVNLNEEPSTVFKLVVIAYDDGDPVKFNTTTVEIAVLQPSVIPRFTQDEYRPPPVSESAPKGTVVTVVMAAALNQTIVYSIVSGNEEDVFAINNRTGVISVKKPLDYERVTSYELRVQADSLQVVRSNLRVPSKSNTAKVFIEVKDENDHAPVFTKKMYIGGVSEDAKMFSSVLKVKADDKDTGNYSAMQYRLIIPPIKDGKEGFVIEAYTGLIKTAMLFKNMRRSYFKFQVIATDDYGKGLSSKADVLVSVVNQLDMQVIVSNVPPTLVEQNKDQLIGILERYVQDQIPGATVVVESIGARRFGDGYSEEDYTKSDLMVYAIDPQTNRAIMRNELFKFLDGKLLDINKEFQPYLGQGGRILEIRTPDVVANVKKQAQAVGYTEGALLALAVIIILCCMPAILIVMVSYRQRQAECAKTARIQMALPAGKPASTAANNLYEELGDSTILFLLYHFQQSRGKKSVLEEGDRQRVISSFASRAIEAHKQSNINGSLNNNLPKSSSNITFLSDENPLTTQNPLYVEGVTQSPAAAGLLRKRSDALDTLSPMQLVLRDASLGGSHRAWTVPAHVTKRHAPGSLSRPVIMDPVQWQQERLKAENEGTENQHSRVDISSPLFQKISGPTLTVKEKARQFEQQALQEMKQVKSPDVKSTRSPTHSICLQERDNTLEQSPKSVFASPCLRSSPLSSPTPCEVVEPEPSAVPSVIITHHDYPEELSPPPTRKPTPPSFRIKKPVCQSFLAPQTKGEVTENIPDPPKTPPPPPPLLPPPPPSPPLLPPHPPTLPLASVPSSSSLPSTQHLSPAKHSKSPAKQPAVPPPAAVPEPPPRRELKGILKNIQNLAAIEKSVANMYSQIDKNHVLPKHISKLKPVATPELPTPEAAAEHNQQNGNLSCVVEELEKRFPSQSTAL |
| 3922 | sp|Q925I7|PDGFD\_MOUSE | MQRLVLVSILLCANFSCYPDTFATPQRASIKALRNANLRRDESNHLTDLYQREENIQVTSNGHVQSPRFPNSYPRNLLLTWWLRSQEKTRIQLSFDHQFGLEEAENDICRYDFVEVEEVSESSTVVRGRWCGHKEIPPRITSRTNQIKITFKSDDYFVAKPGFKIYYSFVEDFQPEAASETNWESVTSSFSGVSYHSPSITDPTLTADALDKTVAEFDTVEDLLKHFNPVSWQDDLENLYLDTPHYRGRSYHDRKSKVDLDRLNDDVKRYSCTPRNHSVNLREELKLTNAVFFPRCLLVQRCGGNCGCGTVNWKSCTCSSGKTVKKYHEVLKFEPGHFKRRGKAKNMALVDIQLDHHERCDCICSSRPPR |
| 3923 | sp|Q53EL6|PDCD4\_HUMAN | MDVENEQILNVNPADPDNLSDSLFSGDEENAGTEEIKNEINGNWISASSINEARINAKAKRRLRKNSSRDSGRGDSVSDSGSDALRSGLTVPTSPKGRLLDRRSRSGKGRGLPKKGGAGGKGVWGTPGQVYDVEEVDVKDPNYDDDQENCVYETVVLPLDERAFEKTLTPIIQEYFEHGDTNEVAEMLRDLNLGEMKSGVPVLAVSLALEGKASHREMTSKLLSDLCGTVMSTTDVEKSFDKLLKDLPELALDTPRAPQLVGQFIARAVGDGILCNTYIDSYKGTVDCVQARAALDKATVLLSMSKGGKRKDSVWGSGGGQQSVNHLVKEIDMLLKEYLLSGDISEAEHCLKELEVPHFHHELVYEAIIMVLESTGESTFKMILDLLKSLWKSSTITVDQMKRGYERIYNEIPDINLDVPHSYSVLERFVEECFQAGIISKQLRDLCPSRGRKRFVSEGDGGRLKPESY |
| 3924 | sp|B0G0Y8|PDE3\_DICDI | MAPQQNIMKQLQQMQSSPYPSSSPSSTTVSQNNDNLNHNVHSLNNSSNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNSINEKNKINDNNNRGNSDDGNNNNSNNNSNNNNSNNNNRDDEEEEGDDEDNNNNNNSNNNKIRGYNDNNDINDIFSINFSSWSKSKDNLIENGVLIFEESGLYKELNLSKSSILNFLSIVASSYRNNPFHSFNHAIAVTQTIFLILLKTNLFNILSPIEKLSIIIASICHDLDHPALSNRFQINMKSSIAVLYNNKSVLENHHLSICLGILESKIGNELLSTLTVEEKKQFFRRVKILILATDMENHFTYKKQFDDIISTFSWDNSEHRDLLLIMFLKSADISNELRSFDISNKWANALMEEFFNQSDLEKLNNLPLTPFMEREKVVLHLTQVSFIEKFLLPSYQSLQNLLPSLEDFVQRIIENKEIWSNNGSSSSTTSSSPN |
| 3925 | sp|Q68ED3|PAPD5\_MOUSE | MFRSGERPLGGLAVPAEQRDFLPLETTNNNNNHHQPAAWARRASAGPSASPVPSAPSSPRPAAALPASESTDPASGSSNKRKRDNKASTYGLNYSLLQPSGGRAAGGGRADGGGGVYSGTPWKRRNYNQGVVGLHEEISDFYEYMSPRPEEEKMRMEVVSRIESVIKELWPSADVQIFGSFKTGLYLPTSDIDLVVFGKWENLPLWTLEEALRKHKVADEDSVKVLDKATVPIIKLTDSFTEVKVDISFNVQNGVRAADLIKDFTKKYPVLPYLVLVLKQFLLQRDLNEVFTGGIGSYSLFLMAVSFLQLHPREDACIPNTNYGVLLIEFFELYGRHFNYLKTGIRIKDGGSYVAKDEVQKNMLDGYRPSMLYIEDPLQPGNDVGRSSYGAMQVKQAFDYAYVVLSHAVSPIAKYYPNNETESILGRIIRVTDEVATYRDWISKQWGLQNRPEPSCNGNGVTLIVDTQQLDKCNNNLSEEKEALGKCRSNASEPLSKHSSNSSSGPVSSSSATQSSSSDVDSDATPCKTPKQLLCRPPTVTRVGSQDVSLEVSQAVGKMQSTQTTNTPNNANKSQHGSARLFRSSSKGFQGTAQTSHGALMTSKQHQGKSNTQYYHGKKRRHKRDAPLSELCR |
| 3926 | sp|A8T658|PCSK9\_PONPY | MGTVSSRRSWWPLPLLLLLLLGPAGARAQEDEDGDYEELVLALRSEEDGLAEAPEHGATATFHRCAKDPWRLPGTYVVVLKEETHRSQSERTARRLQAQAARRGYLTKILHVFHDLLPGFLVKMSGDLLELALKLPHVDYIEEDSSVFAQSIPWNLERITPPRYRADEYQPPDGGSLVEVYLLDTSIQSDHREIEGRVMVTDFENVPEEDGTRFHRQASKCDSHGTHLAGVVSGRDAGVAKGASMRSLRVLNCQGKGTVSGTLIGLEFIRKSQLVQPVGPLVVLMPLAGGYSRVLNAACQRLARAGVVLVTAAGNFRDDACLYSPASAPEVITVGATNAQDQPVTLGTLGTNFGRCVDLFAPGEDIIGASSDCSTCFVSQSGTSQAAAHVAGIAAMMLSVEPELTLAELRQRLIHFSAKDVINEVWFPEDQRVLTPNLVAALPPSTHGAGWQLFCRTVWSAHSGPTRMATAIARCAPDEELLSCSSFSRSGKRRGERMEAQGGKLVCRAHNAFGGEGVCAIARCCLLPQANCSVHTAPPAGSGMGTRVLCHQQVHVLTGCSSHWEVEDLGTHKPPVLRPRGQPNQCVGHREASIHASCCRAPGLECKVKEHGIPAPQEQVTVACEEGWTLTGCSALPGTSHVLGAYAVDNTCVVRSRDISTTGSTSEEAMAAVAICCRRRHLAQASQELQ |
| 3927 | sp|P0C5E3|PALLD\_RAT | PEEICTLVIAESFPEDAGIFTCSARNDYGSVTSTAQLVVTSANTENCSYDSMGEPNSDHFQHFPPPPPILETGSYELASQKPSEIQQVNTPNLGFNMAALQMQFNSAERETNGVHPSHGVNGLINGKAYGNKSPPTPAALLSPTKEPPPLLAKPKLGFPKKASRTARIASDEEIQGTKDAVIQDLERKLRFKEDLLNNGQPRLTYEERMARRLLGADSANVFNIQEPEETAANQEYKVSSCEQRLISEIEYRLERSPVEESGDEVQEAEVPVENAAAPFFEMKLKHYKIFEGMPVTFTCRVAGSPKPKIYWFKDGKQISPKSDHYTIQRDVDGTCSLHTTASTLDDDGNYTIMAANTQGRVSCTGRLMVQAVNQRGRSPRSPPGHPHARRPRSRSRDSGDENEPIQERFFRPHFLQAPGDLTVQEGKLCRMDCKVSGLPTPDLSWQLDGKPIRPDSAHKMLVRENGVHSLIIEPVTSRDAGIYTCIATNRAGQNSFNLELVVAAKEAHKAPVFIEKLQNTGVADGYPVRLECRVSGVPPPQIFWKKENESLTHSTDRVSMHQDNHGYICLLIQGATKEDAGWYTVSAKNEAGIVSCTARLDVY |
| 3928 | sp|P71707|PBP1A\_MYCTU | MNSDGRHHQSSSGAPRGPANPGQRGQVPPDDRLTAILPPVTDDRSAPHADSIEAVKAALDGAPPMPPPRDPLEEVTAALAAPPGKPPRGDQLGGRRRPPGPPGPPGSSGQPAGRLPQPRVDLPRVGQINWKWIRRSLYLTAAVVILLPMVTFTMAYLIVDVPKPGDIRTNQVSTILASDGSEIAKIVPPEGNRVDVNLSQVPMHVRQAVIAAEDRNFYSNPGFSFTGFARAVKNNLFGGDLQGGSTITQQYVKNALVGSAQHGWSGLMRKAKELVIATKMSGEWSKDDVLQAYLNIIYFGRGAYGISAASKAYFDKPVEQLTVAEGALLAALIRRPSTLDPAVDPEGAHARWNWVLDGMVETKALSPNDRAAQVFPETVPPDLARAENQTKGPNGLIERQVTRELLELFNIDEQTLNTQGLVVTTTIDPQAQRAAEKAVAKYLDGQDPDMRAAVVSIDPHNGAVRAYYGGDNANGFDFAQAGLQTGSSFKVFALVAALEQGIGLGYQVDSSPLTVDGIKITNVEGEGCGTCNIAEALKMSLNTSYYRLMLKLNGGPQAVADAAHQAGIASSFPGVAHTLSEDGKGGPPNNGIVLGQYQTRVIDMASAYATLAASGIYHPPHFVQKVVSANGQVLFDASTADNTGDQRIPKAVADNVTAAMEPIAGYSRGHNLAGGRDSAAKTGTTQFGDTTANKDAWMVGYTPSLSTAVWVGTVKGDEPLVTASGAAIYGSGLPSDIWKATMDGALKGTSNETFPKPTEVGGYAGVPPPPPPPEVPPSETVIQPTVEIAPGITIPIGPPTTITLAPPPPAPPAATPTPPP |
| 3929 | sp|P9WIN5|PAPA5\_MYCTU | MFPGSVIRKLSHSEEVFAQYEVFTSMTIQLRGVIDVDALSDAFDALLETHPVLASHLEQSSDGGWNLVADDLLHSGICVIDGTAATNGSPSGNAELRLDQSVSLLHLQLILREGGAELTLYLHHCMADGHHGAVLVDELFSRYTDAVTTGDPGPITPQPTPLSMEAVLAQRGIRKQGLSGAERFMSVMYAYEIPATETPAVLAHPGLPQAVPVTRLWLSKQQTSDLMAFGREHRLSLNAVVAAAILLTEWQLRNTPHVPIPYVYPVDLRFVLAPPVAPTEATNLLGAASYLAEIGPNTDIVDLASDIVATLRADLANGVIQQSGLHFGTAFEGTPPGLPPLVFCTDATSFPTMRTPPGLEIEDIKGQFYCSISVPLDLYSCAVYAGQLIIEHHGHIAEPGKSLEAIRSLLCTVPSEYGWIME |
| 3930 | sp|P35408|PE2R4\_HUMAN | MSTPGVNSSASLSPDRLNSPVTIPAVMFIFGVVGNLVAIVVLCKSRKEQKETTFYTLVCGLAVTDLLGTLLVSPVTIATYMKGQWPGGQPLCEYSTFILLFFSLSGLSIICAMSVERYLAINHAYFYSHYVDKRLAGLTLFAVYASNVLFCALPNMGLGSSRLQYPDTWCFIDWTTNVTAHAAYSYMYAGFSSFLILATVLCNVLVCGALLRMHRQFMRRTSLGTEQHHAAAAASVASRGHPAASPALPRLSDFRRRRSFRRIAGAEIQMVILLIATSLVVLICSIPLVVRVFVNQLYQPSLEREVSKNPDLQAIRIASVNPILDPWIYILLRKTVLSKAIEKIKCLFCRIGGSRRERSGQHCSDSQRTSSAMSGHSRSFISRELKEISSTSQTLLPDLSLPDLSENGLGGRNLLPGVPGMGLAQEDTTSLRTLRISETSDSSQGQDSESVLLVDEAGGSGRAGPAPKGSSLQVTFPSETLNLSEKCI |
| 3931 | sp|P26367|PAX6\_HUMAN | MQNSHSGVNQLGGVFVNGRPLPDSTRQKIVELAHSGARPCDISRILQVSNGCVSKILGRYYETGSIRPRAIGGSKPRVATPEVVSKIAQYKRECPSIFAWEIRDRLLSEGVCTNDNIPSVSSINRVLRNLASEKQQMGADGMYDKLRMLNGQTGSWGTRPGWYPGTSVPGQPTQDGCQQQEGGGENTNSISSNGEDSDEAQMRLQLKRKLQRNRTSFTQEQIEALEKEFERTHYPDVFARERLAAKIDLPEARIQVWFSNRRAKWRREEKLRNQRRQASNTPSHIPISSSFSTSVYQPIPQPTTPVSSFTSGSMLGRTDTALTNTYSALPPMPSFTMANNLPMQPPVPSQTSSYSCMLPTSPSVNGRSYDTYTPPHMQTHMNSQPMGTSGTTSTGLISPGVSVPVQVPGSEPDMSQYWPRLQ |
| 3932 | sp|Q01063|PDE4D\_MOUSE | MERDTCDVLSRSKSASEETLHSCNEEEDPFRGMEPYLVRRLSSRSIQLPPLAFRQLEQADLRSESENIPRPTSLPLKILPLIAVTSADSSGFDVDNGTSAGRSPLDPMTSPGSGLILQANFVHSQRRESFLYRSDSDYDLSPKSMSRNSSIASDIHGDDLIVTPFAQVLASLRTVRNNFAALTNLQDRAPSKRSPMCNQPSINKATITEEAYQKLASETLEELDWCLDQLETLQTRHSVSEMASNKFKRMLNRELTHLSEMSRSGNQVSEYISNTFLDKQHEVEIPSPTQKEKEKKKRPMSQISGVKKLMHSSSLTNSCIPRFGVKTEQEDVLAKELEDVNKWGLHVFRIAELSGNRPLTVIMHTIFQERDLLKTFKIPVDTLITYLMTLEDHYHADVAYHNNIHAADVVQSTHVLLSTPALEAVFTDLEILAAIFASAIHDVDHPGVSNQFLINTNSELALMYNDSSVLENHHLAVGFKLLQEENCDIFQNLTKKQRQSLRKMVIDIVLATDMSKHMNLLADLKTMVETKKVTSSGVLLLDNYSDRIQVLQNMVHCADLSNPTKPLQLYRQWTDRIMEEFFRQGDRERERGMEISPMCDKHNASVEKSQVGFIDYIVHPLWETWADLVHPDAQDILDTLEDNREWYQSTIPQSPSPAPDDQEEGRQGQTEKFQFELTLEEDCESDTEKDSGSQVEEDTSCSDSKTLCTQDSESTEIPLDEQVEEEAVAEEESQPETCVPDDCCPDT |
| 3933 | sp|P00630|PA2\_APIME | MQVVLGSLFLLLLSTSHGWQIRDRIGDNELEERIIYPGTLWCGHGNKSSGPNELGRFKHTDACCRTHDMCPDVMSAGESKHGLTNTASHTRLSCDCDDKFYDCLKNSADTISSYFVGKMYFNLIDTKCYKLEHPVTGCGERTEGRCLHYTVDKSKPKVYQWFDLRKY |
| 3934 | sp|P9WN11|OTSA\_MYCTU | MAPSGGQEAQICDSETFGDSDFVVVANRLPVDLERLPDGSTTWKRSPGGLVTALEPVLRRRRGAWVGWPGVNDDGAEPDLHVLDGPIIQDELELHPVRLSTTDIAQYYEGFSNATLWPLYHDVIVKPLYHREWWDRYVDVNQRFAEAASRAAAHGATVWVQDYQLQLVPKMLRMLRPDLTIGFFLHIPFPPVELFMQMPWRTEIIQGLLGADLVGFHLPGGAQNFLILSRRLVGTDTSRGTVGVRSRFGAAVLGSRTIRVGAFPISVDSGALDHAARDRNIRRRAREIRTELGNPRKILLGVDRLDYTKGIDVRLKAFSELLAEGRVKRDDTVVVQLATPSRERVESYQTLRNDIERQVGHINGEYGEVGHPVVHYLHRPAPRDELIAFFVASDVMLVTPLRDGMNLVAKEYVACRSDLGGALVLSEFTGAAAELRHAYLVNPHDLEGVKDGIEEALNQTEEAGRRRMRSLRRQVLAHDVDRWAQSFLDALAGAHPRGQG |
| 3935 | sp|P34980|PE2R3\_RAT | MAGVWAPEHSVEAHSNQSSAADGCGSVSVAFPITMMVTGFVGNALAMLLVVRSYRRRESKRKKSFLLCIGWLALTDLVGQLLTSPVVILVYLSQRRWEQLDPSGRLCTFFGLTMTVFGLSSLLVASAMAVERALAIRAPHWYASHMKTRATPVLLGVWLSVLAFALLPVLGVGRYSVQWPGTWCFISTGPAGNETDSAREPGSVAFASAFACLGLLALVVTFACNLATIKALVSRCRAKAAASQSSAQWGRITTETAIQLMGIMCVLSVCWSPLLIMMLKMIFNQMSVEQCKTQMGKEKECNSFLIAVRLASLNQILDPWVYLLLRKILLRKFCQIRDHTNYASSSTSLPCPGSSVLMWSDQLER |
| 3936 | sp|Q8HYZ4|PCKGC\_BOVIN | MPPQLSDGLNYSAKIVRGSLDSLPQAVRSFVESSAKLCRPDQVHICDGSEEENRQLLSHMEEEGVIKRLKKYDNCWLALTDPRDVARIESKTVIITREQRDTVPIPKNGLSQLGRWMSEEDFEKAFNIRFPGCMKGRTMYVIPFSMGPLGSPLSKIGIELTDSPYVVTSMRIMTRMGTSVLEALGDGEFVKCLHSVGCPLPLKKPLVNNWACNPELTLIAHLPDRREIISFGSGYGGNSLLGKKCFALRMASRLAKEEGWLAEHMLILGITNPKGQKKYFAAAFPSACGKTNLAMMNPTLPGWKVECVGDDIAWMKFDQQGNLRAINPENGFFGVAPGTSVRTNPNAIKTIQKNTIFTNVAETSDGGVYWEGIDQPLAARVKLISWKGKEWDPKDGEPCAHPNSRFCTPASQCPIIDPDWESPEGVPIEGIIFGGRRPVGVPLVYEALSWQHGVFVGAAMRSEATAAAEYKGKVIMHDPFAMGPFFGYNFGQYLAHWLSMAQRPAAKLPKIFHVNWFRKDKAGRFLWPGFGENSRVLEWMFNRVVGEGGASVTPIGYIPDEDALDLRGLGDVDVKELFHISKEFWEEEVEEIQKYLEEQVNVDLPPEIKNQVLALKQRISQM |
| 3937 | sp|P63015|PAX6\_MOUSE | MQNSHSGVNQLGGVFVNGRPLPDSTRQKIVELAHSGARPCDISRILQVSNGCVSKILGRYYETGSIRPRAIGGSKPRVATPEVVSKIAQYKRECPSIFAWEIRDRLLSEGVCTNDNIPSVSSINRVLRNLASEKQQMGADGMYDKLRMLNGQTGSWGTRPGWYPGTSVPGQPTQDGCQQQEGGGENTNSISSNGEDSDEAQMRLQLKRKLQRNRTSFTQEQIEALEKEFERTHYPDVFARERLAAKIDLPEARIQVWFSNRRAKWRREEKLRNQRRQASNTPSHIPISSSFSTSVYQPIPQPTTPVSSFTSGSMLGRTDTALTNTYSALPPMPSFTMANNLPMQPPVPSQTSSYSCMLPTSPSVNGRSYDTYTPPHMQTHMNSQPMGTSGTTSTGLISPGVSVPVQVPGSEPDMSQYWPRLQ |
| 3938 | sp|P63016|PAX6\_RAT | MQNSHSGVNQLGGVFVNGRPLPDSTRQKIVELAHSGARPCDISRILQVSNGCVSKILGRYYETGSIRPRAIGGSKPRVATPEVVSKIAQYKRECPSIFAWEIRDRLLSEGVCTNDNIPSVSSINRVLRNLASEKQQMGADGMYDKLRMLNGQTGSWGTRPGWYPGTSVPGQPTQDGCQQQEGQGENTNSISSNGEDSDEAQMRLQLKRKLQRNRTSFTQEQIEALEKEFERTHYPDVFARERLAAKIDLPEARIQVWFSNRRAKWRREEKLRNQRRQASNTPSHIPISSSFSTSVYQPIPQPTTPVSSFTSGSMLGRTDTALTNTYSALPPMPSFTMANNLPMQPPVPSQTSSYSCMLPTSPSVNGRSYDTYTPPHMQTHMNSQPMGTSGTTSTGLISPGVSVPVQVPGSEPDMSQYWPRLQ |
| 3939 | sp|P53844|PDR17\_YEAST | MGLFSRKRDHTPAVPKEKLIPCDKIFLDPPAKYGNAPLLEPISEDQNEKYRAVLRHFQDDDLKLPENLNDLDNGTHANDRPLSDWEKFWLSRECFLRYLRANKWNTANAIKGLTKTLVWRREIGLTHGKEDKDPLTADKVAVENETGKQVILGFDNAKRPLYYMKNGRQNTESSFRQVQELVYMMETATTVAPQGVEKITVLVDFKSYKEPGIITDKAPPISIARMCLNVMQDHYPERLAKCVLINIPWFAWAFLKMMYPFLDPATKAKAIFDEPFENHIEPSQLDALYNGLLDFKYKHEVYWPDMVKKVDDLRLKRFDRFLKFGGIVGLSEYDTKGQHDELKYPVDMVI |
| 3940 | sp|Q86TB9|PATL1\_HUMAN | MFRYESLEDCPLDEDEDAFQGLGEEDEEIDQFNDDTFGSGAVDDDWQEAHERLAELEEKLPVAVNEQTGNGERDEMDLLGDHEENLAERLSKMVIENELEDPAIMRAVQTRPVLQPQPGSLNSSIWDGSEVLRRIRGPLLAQEMPTVSVLEYALPQRPPQGPEDDRDLSERALPRRSTSPIIGSPPVRAVPIGTPPKQMAVPSFTQQILCPKPVHVRPPMPPRYPAPYGERMSPNQLCSVPNSSLLGHPFPPSVPPVLSPLQRAQLLGGAQLQPGRMSPSQFARVPGFVGSPLAAMNPKLLQGRVGQMLPPAPGFRAFFSAPPSATPPPQQHPPGPGPHLQNLRSQAPMFRPDTTHLHPQHRRLLHQRQQQNRSQHRNLNGAGDRGSHRSSHQDHLRKDPYANLMLQREKDWVSKIQMMQLQSTDPYLDDFYYQNYFEKLEKLSAAEEIQGDGPKKERTKLITPQVAKLEHAYKPVQFEGSLGKLTVSSVNNPRKMIDAVVTSRSEDDETKEKQVRDKRRKTLVIIEKTYSLLLDVEDYERRYLLSLEEERPALMDDRKHKICSMYDNLRGKLPGQERPSDDHFVQIMCIRKGKRMVARILPFLSTEQAADILMTTARNLPFLIKKDAQDEVLPCLLSPFSLLLYHLPSVSITSLLRQLMNLPQSAATPALSNPHLTAVLQNKFGLSLLLILLSRGEDLQSSDPATESTQNNQWTEVMFMATRELLRIPQAALAKPISIPTNLVSLFSRYVDRQKLNLLETKLQLVQGIR |
| 3941 | sp|Q8TEW0|PARD3\_HUMAN | MKVTVCFGRTRVVVPCGDGHMKVFSLIQQAVTRYRKAIAKDPNYWIQVHRLEHGDGGILDLDDILCDVADDKDRLVAVFDEQDPHHGGDGTSASSTGTQSPEIFGSELGTNNVSAFQPYQATSEIEVTPSVLRANMPLHVRRSSDPALIGLSTSVSDSNFSSEEPSRKNPTRWSTTAGFLKQNTAGSPKTCDRKKDENYRSLPRDTSNWSNQFQRDNARSSLSASHPMVGKWLEKQEQDEDGTEEDNSRVEPVGHADTGLEHIPNFSLDDMVKLVEVPNDGGPLGIHVVPFSARGGRTLGLLVKRLEKGGKAEHENLFRENDCIVRINDGDLRNRRFEQAQHMFRQAMRTPIIWFHVVPAANKEQYEQLSQSEKNNYYSSRFSPDSQYIDNRSVNSAGLHTVQRAPRLNHPPEQIDSHSRLPHSAHPSGKPPSAPASAPQNVFSTTVSSGYNTKKIGKRLNIQLKKGTEGLGFSITSRDVTIGGSAPIYVKNILPRGAAIQDGRLKAGDRLIEVNGVDLVGKSQEEVVSLLRSTKMEGTVSLLVFRQEDAFHPRELNAEPSQMQIPKETKAEDEDIVLTPDGTREFLTFEVPLNDSGSAGLGVSVKGNRSKENHADLGIFVKSIINGGAASKDGRLRVNDQLIAVNGESLLGKTNQDAMETLRRSMSTEGNKRGMIQLIVARRISKCNELKSPGSPPGPELPIETALDDRERRISHSLYSGIEGLDESPSRNAALSRIMGESGKYQLSPTVNMPQDDTVIIEDDRLPVLPPHLSDQSSSSSHDDVGFVTADAGTWAKAAISDSADCSLSPDVDPVLAFQREGFGRQSMSEKRTKQFSDASQLDFVKTRKSKSMDLGIADETKLNTVDDQKAGSPSRDVGPSLGLKKSSSLESLQTAVAEVTLNGDIPFHRPRPRIIRGRGCNESFRAAIDKSYDKPAVDDDDEGMETLEEDTEESSRSGRESVSTASDQPSHSLERQMNGNQEKGDKTDRKKDKTGKEKKKDRDKEKDKMKAKKGMLKGLGDMFRFGKHRKDDKIEKTGKIKIQESFTSEEERIRMKQEQERIQAKTREFRERQARERDYAEIQDFHRTFGCDDELMYGGVSSYEGSMALNARPQSPREGHMMDALYAQVKKPRNSKPSPVDSNRSTPSNHDRIQRLRQEFQQAKQDEDVEDRRRTYSFEQPWPNARPATQSGRHSVSVEVQMQRQRQEERESSQQAQRQYSSLPRQSRKNASSVSQDSWEQNYSPGEGFQSAKENPRYSSYQGSRNGYLGGHGFNARVMLETQELLRQEQRRKEQQMKKQPPSEGPSNYDSYKKVQDPSYAPPKGPFRQDVPPSPSQVARLNRLQTPEKGRPFYS |
| 3942 | sp|Q9NUD9|PIGV\_HUMAN | MWPQDPSRKEVLRFAVSCRILTLMLQALFNAIIPDHHAEAFSPPRLAPSGFVDQLVEGLLGGLSHWDAEHFLFIAEHGYLYEHNFAFFPGFPLALLVGTELLRPLRGLLSLRSCLLISVASLNFLFFMLAAVALHDLGCLVLHCPHQSFYAALLFCLSPANVFLAAGYSEALFALLTFSAMGQLERGRVWTSVLLFAFATGVRSNGLVSVGFLMHSQCQGFFSSLTMLNPLRQLFKLMASLFLSVFTLGLPFALFQYYAYTQFCLPGSARPIPEPLVQLAVDKGYRIAEGNEPPWCFWDVPLIYSYIQDVYWNVGFLKYYELKQVPNFLLAAPVAILVAWATWTYVTTHPWLCLTLGLQRSKNNKTLEKPDLGFLSPQVFVYVVHAAVLLLFGGLCMHVQVLTRFLGSSTPIMYWFPAHLLQDQEPLLRSLKTVPWKPLAEDSPPGQKVPRNPIMGLLYHWKTCSPVTRYILGYFLTYWLLGLLLHCNFLPWT |
| 3943 | sp|P96060|PHNW\_SALTY | MTSRNYLLLTPGPLTTSRTVKEAMLFDSCTWDDDYNIGVVEQIRQQLTALATASEGYTSVLLQGSGSYAVEAVLGSALGPQDKVLIVSNGAYGARMVEMAGLMGIAHHAYDCGEVARPDVQAIDAILNADPTISHIAMVHSETTTGMLNPIDEVGALAHRYGKTYIVDAMSSFGGIPMDIAALHIDYLISSANKCIQGVPGFAFVIAREQKLAACKGHSRSLSLDLYAQWRCMEDNHGKWRFTSPTHTVLAFAQALKELAKEGGVAARHQRYQQNQRSLVAGMRALGFNTLLDDELHSPIITAFYSPEDPQYRFSEFYRRLKEQGFVIYPGKVSQSDCFRIGNIGEVYAADITALLTAIRTAMYWTK |
| 3944 | sp|P00512|PFKA\_GEOSE | MKRIGVLTSGGDSPGMNAAIRSVVRKAIYHGVEVYGVYHGYAGLIAGNIKKLEVGDVGDIIHRGGTILYTARCPEFKTEEGQKKGIEQLKKHGIEGLVVIGGDGSYQGAKKLTEHGFPCVGVPGTIDNDIPGTDFTIGFDTALNTVIDAIDKIRDTATSHERTYVIEVMGRHAGDIALWSGLAGGAETILIPEADYDMNDVIARLKRGHERGKKHSIIIVAEGVGSGVDFGRQIQEATGFETRVTVLGHVQRGGSPTAFDRVLASRLGARAVELLLEGKGGRCVGIQNNQLVDHDIAEALANKHTIDQRMYALSKELSI |
| 3945 | sp|O05877|PK21\_MYCTU | MDIPSVDVSTATNDGASSRAKGHRSAAPGRRKISDAVYQAELFRLQTEFVKLQEWARHSGARLVVIFEGRDGAGKGGAIKRITEYLNPRVARIAALPAPTDRERGQWYYQRYIAHLPAKGEIVLFDRSWYNRAGVEKVMGFCTPQEYVLFLRQTPIFEQMLIDDGILLRKYWFSVSDAEQLRRFKARRNDPVRQWKLSPMDLESVYRWEDYSRAKDEMMVHTDTPVSPWYVVESDIKKHARLNMMAHLLSTIDYADVEKPKVKLPPRPLVSGNYRRPPRELSTYVDDYVATLIAR |
| 3946 | sp|Q8TDX9|PK1L1\_HUMAN | MAEEAAQNISDDQERCLQAACCLSFGGELSVSTDKSWGLHLCSCSPPGGGLWVEVYANHVLLMSDGKCGCPWCALNGKAEDRESQSPSSSASRQKNIWKTTSEAALSVVNEKTQAVVNEKTQAPLDCDNSADRIPHKPFIIIARAWSSGGPRFHHRRLCATGTADSTFSALLQLQGTTSAAAPCSLKMEASCCVLRLLCCAEDVATGLLPGTVTMETPTKVARPTQTSSQRVPLWPISHFPTSPRSSHGLPPGIPRTPSFTASQSGSEILYPPTQHPPVAILARNSDNFMNPVLNCSLEVEARAPPNLGFRVHMASGEALCLMMDFGDSSGVEMRLHNMSEAMAVTAYHQYSKGIFFHLLHFQLDMSTYKEAETQNTTLNVYLCQSENSCLEDSDPSNLGYELISAFVTKGVYMLKAVIYNEFHGTEVELGPYYVEIGHEAVSAFMNSSSVHEDEVLVFADSQVNQKSTVVIHHFPSIPSYNVSFISQTQVGDSQAWHSMTVWYKMQSVSVYTNGTVFATDTDITFTAVTKETIPLEFEWYFGEDPPVRTTSRSIKKRLSIPQWYRVMVKASNRMSSVVSEPHVIRVQKKIVANRLTSPSSALVNASVAFECWINFGTDVAYLWDFGDGTVSLGSSSSSHVYSREGEFTVEVLAFNNVSASTLRQQLFIVCEPCQPPLVKNMGPGKVQIWRSQPVRLGVTFEAAVFCDISQGLSYTWNLMDSEGLPVSLPAAVDTHRQTLILPSHTLEYGNYTALAKVQIEGSVVYSNYCVGLEVRAQAPVSVISEGTHLFFSRTTSSPIVLRGTQSFDPDDPGATLRYHWECATAGSPAHPCFDSSTAHQLDAAAPTVSFEAQWLSDSYDQFLVMLRVSSGGRNSSETRVFLSPYPDSAFRFVHISWVSFKDTFVNWNDELSLQAMCEDCSEIPNLSYSWDLFLVNATEKNRIEVPFCRVVGLLGSLGLGAISESSQLNLLPTEPGTADPDATTTPFSREPSPVTLGQPATSAPRGTPTEPMTGVYWIPPAGDSAVLGEAPEEGSLDLEPGPQSKGSLMTGRSERSQPTHSPDPHLSDFEAYYSDIQEAIPSGGRQPAKDTSFPGSGPSLSAEESPGDGDNLVDPSLSAGRAEPVLMIDWPKALLGRAVFQGYSSSGITEQTVTIKPYSLSSGETYVLQVSVASKHGLLGKAQLYLTVNPAPRDMACQVQPHHGLEAHTVFSVFCMSGKPDFHYEFSYQIGNTSKHTLYHGRDTQYYFVLPAGEHLDNYKVMVSTEITDGKGSKVQPCTVVVTVLPRYHGNDCLGEDLYNSSLKNLSTLQLMGSYTEIRNYITVITRILSRLSKEDKTASCNQWSRIQDALISSVCRLAFVDQEEMIGSVLMLRDLVSFSNKLGFMSAVLILKYTRALLAQGQFSGPFVIDKGVRLELIGLISRVWEVSEQENSKEEVYRHEEGITVISDLLLGCLSLNHVSTGQMEFRTLLHYNLQSSVQSLGSVQVHLPGDLAGHSPAGAETQSPCYISQLILFKKNPYPGSQAPGQIGGVVGLNLYTCSSRRPINRQWLRKPVMVEFGEEDGLDNRRNKTTFVLLRDKVNLHQFTELSENPQESLQIEIEFSKPVTRAFPVMLLVRFSEKPTPSDFLVKQIYFWDESIVQIYIPAASQKDASVGYLSLLDADYDRKPPNRYLAKAVNYTVHFQWIRCLFWDKREWKSERFSPQPGTSPEKVNCSYHRLAAFALLRRKLKASFEVSDISKLQSHPENLLPSIFIMGSVILYGFLVAKSRQVDHHEKKKAGYIFLQEASLPGHQLYAVVIDTGFRAPARLTSKVYIVLCGDNGLSETKELSCPEKPLFERNSRHTFILSAPAQLGLLRKIRLWHDSRGPSPGWFISHVMVKELHTGQGWFFPAQCWLSAGRHDGRVERELTCLQGGLGFRKLFYCKFTEYLEDFHVWLSVYSRPSSSRYLHTPRLTVSFSLLCVYACLTALVAAGGQEQPHLDVSPTLGSFRVGLLCTLLASPGAQLLSLLFRLSKEAPGSARVEPHSPLRGGAQTEAPHGPNSWGRIPDAQEPRKQPASAILSGSGRAQRKAASDNGTACPAPKLQVHGADHSRTSLMGKSHCCPPHTQAPSSGLEGLMPQWSRALQPWWSSAVWAICGTASLACSLGTGFLAYRFGQEQCVQWLHLLSLSVVCCIFITQPLMVCLMALGFAWKRRADNHFFTESLCEATRDLDSELAERSWTRLPFSSSCSIPDCAGEVEKVLAARQQARHLRWAHPPSKAQLRGTRQRMRRESRTRAALRDISMDILMLLLLLCVIYGRFSQDEYSLNQAIRKEFTRNARNCLGGLRNIADWWDWSLTTLLDGLYPGGTPSARVPGAQPGALGGKCYLIGSSVIRQLKVFPRHLCKPPRPFSALIEDSIPTCSPEVGGPENPYLIDPENQNVTLNGPGGCGTREDCVLSLGRTRTEAHTALSRLRASMWIDRSTRAVSVHFTLYNPPTQLFTSVSLRVEILPTGSLVPSSLVESFSIFRSDSALQYHLMLPQLVFLALSLIHLCVQLYRMMDKGVLSYWRKPRNWLELSVVGVSLTYYAVSGHLVTLAGDVTNQFHRGLCRAFMDLTLMASWNQRARWLRGILLFLFTLKCVYLPGIQNTMASCSSMMRHSLPSIFVAGLVGALMLAALSHLHRFLLSMWVLPPGTFTDAFPGLLFHFPRRSQKDCLLGLSKSDQRAMACYFGILLIVSATLCFGMLRGFLMTLPQKRKSFQSKSFVRLKDVTAYMWEKVLTFLRLETPKLEEAEMVENHNYYLDEFANLLDELLMKINGLSDSLQLPLLEKTSNNTGEARTEESPLVDISSYQAAEPADIKDF |
| 3947 | sp|Q55D99|PAKA\_DICDI | MEEKPKSTTPPPSVSSLRQKFEQFLDKTDKGFNATRNNYRGPVSSSTGIINDKEKKSHSYFKVREEGSNKRPSSFSASNPITPSSPQSTHSSPIYRGVGYHQYSSVNSGNSYSGSGNNINNIINNSNNSNSNNLYGNNSNNQSSGSLGNFLIDKLEYSAATVTASDLKRERQQLFRNKEEFTMESSSYGGSTIGDDDLDSLNGSSSQQFNHRNSSWADRRERFIKKVMNGQFNEVQMRDELNRLRDIEADKIRAEERRTPSMNMDEFKAIEIERLRKKIYQEELVIFRQEEIEKIQREERIKIEKEYDDKSIISSQERQHIVQQIINQKEDEKGSSPPFPIPLVVNNNNNENNENDNNNNNNNNNNNNNNNNNNNNNNNKNIDLTSFNNNININSNNNEIKNNVIVDSDDEEELERLEQLRRQREIERLREEEEENEDRVERELASRRRQEEDRIKREEEEEEEEQRNYLRRLKELERIKQIEEEEEEERERQSQLQSSQQQQKSSSTQRSSNTVTSTSSSSTGGDSNPSTSQKPTNLLNLMGSNNNISNINTNILSHSIVNSSGGLPPPPPTASHVDNRSRSHTLAGESHSSENTPLVSSIDNNGVNNKMSRSHSGGALSGLALPTAPPLPNQPNVNNSNNNNNNNNINNNHNHSHNHSNNLHQSALKNSSSMSTPSISPSQAGNSATSTVPSSPISASTSMSSPTLVVSPRKDELTTSTGSTRKGSISEREDKKKVSSSSTSSSSSSNGGLSSSGKDHKKDHSSEEKEKEKKSFFNKLFSKEKKDHHSSSKSPSSGSSGGGEVDEKKKKKLSPRVGTPFNVKHDVHVNFNADTGFEGLPKEWEVLIKSNFQEPEVMQHPEEVLDVVKFHAQYQGLASAPAMHAPSIPLTDEPPVTLNDLISLDDPKKIYYNINKIGEGGAGEVFEAINSRTNQTIAIKKMKLKAQNLKTVINEIGMMKNSNHENIVQYIDSYIVADELWVAMEFMSGGCLTEVLDQYRDIQLNESQIAFVCQEVLRGLEYIHKFNRIHRDIKSDNILIGANGEIKLADFGYAAQLTQIRQERNSVVGTPYWMAPELIRGNNYDFKVDVWSLGIMTREMAEGEPPYLEFPPLRALFLLTTQGLPPIRDAHKWSKEFNDFLALCLEKDTEKRASSSSLLHHPFLKRACSGPEFYKAVDAARIEKENQLQNFANLTAI |
| 3948 | sp|Q9Z1L0|PK3CB\_RAT | MCFRSIMPPAMADTLDIWAVDSQIASDGSISVDFLLPTGIYIQLEVPREATISYIKQMLWKQVHNYPMFNLLMDIDSYMFACVNQTAVYEELEDETRRLCDVRPFLPVLKLVTRSCDPAEKLDSKIGVLIGKGLHEFDALKDPEVNEFRRKMRKFSEDKIQSLVGLSWIDWLKHTYPPEHEPSVLENLEDKLYGGKLVVAVHFENSQDVFSFQVSPNLNPIKINELAIQKRLTIRGKEEEASPCDYVLQVSGRVEYVFGDHPLIQFQYIRNCVMNRTLPHFILVECCKIKKMYEQEMIAIEAAINRNSSSLPLPLPPKKTRVISHVWGNNNPFQIVLVKGNKLNTEETVKVHVRAGLFHGTELLCKTVVSSEISGKNDHIWNEQLEFDINICDLPRMARLCFAVYAVLDKVKTKKSTKTINPSKYQTIRKAGKVHYPVAWVNTMVFDFKGQLRSGDVILHSWSSFPDELEEMLNPMGTVQTNPYAENATALHIKFPENKKQPYYYPPFDKIIEKAAEIASGDSANVSSRGGKKFLAVLKEILDRDPLSQLCENEMDLIWTLRQDCRENFPQSLPKLLLSIKWNKLEDVAQLQALLQIWPKLPPREALELLDFNYPDQYVREYAVGCLRQMSDEELSQYLLQLVQVLKYEPFLDCALSRFLLERALDNRRIGQFLFWHLRSEVHTPAVSIQFGVILEAYCRGSVGHMKVLSKQVEALNKLKTLNSLIKLNAMKLNRAKGKEAMHTCLKQSAYREALSDLQSPLNPCVILSELYVEKCRYMDSKMKPLWLVYSNRAFGEDAVGVIFKNGDDLRQDMLTLQMLRLMDLLWKEAGLDLRMLPYGCLATGDRSGLIEVVSTSETIADIQLNSSNVAATAAFNKDALLNWLKEYNSGDDLDRAIEEFTLSCAGYCVASYVLGIGDRHSDNIMVKKTGQLFHIDFGHILGNFKSKFGIKRERVPFILTYDFIHVIQQGKTGNTEKFGRFRQCCEDAYLILRRHGNLFITLFALMLTAGLPELTSVKDIQYLKDSLALGKSEEEALKQFKQKFDEALRESWTTKVNWMAHTVRKDYRS |
| 3949 | sp|P57093|PAHX\_RAT | MDYTRAGARLQVLLGHLGRPSALQIVAHPVSGPASPANFCPEQFQYTLDNNVLSLEQRKFYEENGFLVIKNLVSDDDIQRFRAEFERICRKEVKPPGMTVMKDVAIAKQGYAPSERVVTKIQDFQQNEELFRYCALPQIVKYVECFTGPNIMAMHTMLINKPPDSGKKTSRHPLHQDLHFFPFRPSNLIVCAWTAMEHIDRNNGCLVVLPGTHKGPLKPHDYPKWEGGVNKMYHGIQDYDPDSPRVHLVMEKGDTVFFHPLLIHGSGRNRTQGFRKAISCHYGSSDCKYISVKGTSQENIAREVIEIAEKRYGVQGALDFEDTWKFRCRLVKGERINL |
| 3950 | sp|P42336|PK3CA\_HUMAN | MPPRPSSGELWGIHLMPPRILVECLLPNGMIVTLECLREATLITIKHELFKEARKYPLHQLLQDESSYIFVSVTQEAEREEFFDETRRLCDLRLFQPFLKVIEPVGNREEKILNREIGFAIGMPVCEFDMVKDPEVQDFRRNILNVCKEAVDLRDLNSPHSRAMYVYPPNVESSPELPKHIYNKLDKGQIIVVIWVIVSPNNDKQKYTLKINHDCVPEQVIAEAIRKKTRSMLLSSEQLKLCVLEYQGKYILKVCGCDEYFLEKYPLSQYKYIRSCIMLGRMPNLMLMAKESLYSQLPMDCFTMPSYSRRISTATPYMNGETSTKSLWVINSALRIKILCATYVNVNIRDIDKIYVRTGIYHGGEPLCDNVNTQRVPCSNPRWNEWLNYDIYIPDLPRAARLCLSICSVKGRKGAKEEHCPLAWGNINLFDYTDTLVSGKMALNLWPVPHGLEDLLNPIGVTGSNPNKETPCLELEFDWFSSVVKFPDMSVIEEHANWSVSREAGFSYSHAGLSNRLARDNELRENDKEQLKAISTRDPLSEITEQEKDFLWSHRHYCVTIPEILPKLLLSVKWNSRDEVAQMYCLVKDWPPIKPEQAMELLDCNYPDPMVRGFAVRCLEKYLTDDKLSQYLIQLVQVLKYEQYLDNLLVRFLLKKALTNQRIGHFFFWHLKSEMHNKTVSQRFGLLLESYCRACGMYLKHLNRQVEAMEKLINLTDILKQEKKDETQKVQMKFLVEQMRRPDFMDALQGFLSPLNPAHQLGNLRLEECRIMSSAKRPLWLNWENPDIMSELLFQNNEIIFKNGDDLRQDMLTLQIIRIMENIWQNQGLDLRMLPYGCLSIGDCVGLIEVVRNSHTIMQIQCKGGLKGALQFNSHTLHQWLKDKNKGEIYDAAIDLFTRSCAGYCVATFILGIGDRHNSNIMVKDDGQLFHIDFGHFLDHKKKKFGYKRERVPFVLTQDFLIVISKGAQECTKTREFERFQEMCYKAYLAIRQHANLFINLFSMMLGSGMPELQSFDDIAYIRKTLALDKTEQEALEYFMKQMNDAHHGGWTTKMDWIFHTIKQHALN |
| 3951 | sp|Q0P9C4|PGLK\_CAMJE | MLKKLFFILSKEDKNFLFFLLVFSVFISFIETFAISLVMPFITLASDFSYFDRNKYLISLKEYLNIPVFEIIVYFGVGLIVFYVFRALLNAYYFHLLARFSKGRYHAIAYKVFSKFLNINYEKFTQKNQSEILKSITGEVYNLSTMISSFLLLMSEIFVVLLLYALMLLINYKITLFLSIFMVLNAFILVKILSPIIKKAGVRREEAMKNFFEILNTNLNNFKFIKLKTKEDGVLSLFKAQSEAFSKANITNESVAAVPRIYLEGIGFCVLVFIVVFLVLKNESDISGILSTISIFVLALYRLMPSANRIITSYHDLLYYHSSLDIIYQNLRQEEENLGEEKLSFNQELKICNLSFGYEGKKYLFKNLNLNIKKGEKIAFIGESGCGKSTLVDLIIGLLKPKEGQILIDEQELNANNTKNYRQKIGYIPQNIYLFNDSIAKNITFGDAVDEEKLNRVIKQANLEHFIKNLPQGVQTKVGDGGSNLSGGQKQRIAIARALYLEPEMLVLDEATSALDTQSEAKIMDEIYKISKDKTMIIIAHRLSTITQCDKVYRLEHGKLKEEK |
| 3952 | sp|Q9SZD6|PETS\_ARATH | MATITPSSISNAWLIPGASFTVKKSDCSIKCSFSRKAGKQILSSTQRLVLPLSTSLRLFPTHGRQFVLHPHRRATGTDVVAAVEEQDSTPVVAEDKETVASEKSDAPAPTSQSRGTARPGRKSEMPAVKNEELVPGATFTGKVRAIQPFGAFVDFGAFTDGLVHVSQLSDNFVKDVSSVVTIGQEVKVRLVEADIESKRISLTMRENDDPPKRQSGGSDKPRSGGKRDGSKGGGQRKGEGFNSKFAKGQMLDGVVKNLTRSGAFITIGEGEEGFLPTAEEADDGIGSMMMGGSSLQAGQEVKVRVLRIARGRVTLTMKEEDDGKFDETTTQGVVHTATNPFMLAFRKNEEIAAFLDKREEEAEKPPVETPVEPEAEASVTSAEVEESVCVPAEVTSEEVPSSETPKVVEEEVIATKAEDDSPEKEEQTETLAAAAEAEEVVPPIPETKSEEEIVENSIPPNSATDEVSSPEALASEEVEKEQVVAETPVDEVKTPAPVVTEASSEESGNTATAESIKGISPALVKQLREETGAGMMDCKNALSESEGDMVKAQEYLRKKGLASADKKASRATSEGRIGAYIHDSRIGVLLEVNCETDFVSRGDIFKELVDDLAMQVAACPQVEYLVTEDVSEEIVKKEKEIEMQKEDLLSKPEQIREKIVDGRIKKRLDSLALLEQPYIKDDKVIVKDLVKQRIATIGENIKVKRFVRYTLGEGLEKKSQDFAAEVAAQTAAKPKAKEEPKAEEAKEAVASPPTTVVSAALVKQLREETGAGMMDCKKALAATGGDLEKAQEFLRKKGLSSADKKSSRLASEGRIGSYIHDSRIGVLIEVNCETDFVGRSEKFKELVDDLAMQAVANPQVQYVSIEDIPEEIKQKEKEIEMQREDLLSKPENIREKIVEGRISKRLGEWALLEQPYIKDDSVLVKDLVKQTVATLGENIKVRRFVKFTLGEDN |
| 3953 | sp|P43287|PIP22\_ARATH | MAKDVEGPEGFQTRDYEDPPPTPFFDADELTKWSLYRAVIAEFVATLLFLYITVLTVIGYKIQSDTKAGGVDCGGVGILGIAWAFGGMIFILVYCTAGISGGHINPAVTFGLFLARKVSLIRAVLYMVAQCLGAICGVGFVKAFQSSYYDRYGGGANSLADGYNTGTGLAAEIIGTFVLVYTVFSATDPKRNARDSHVPVLAPLPIGFAVFMVHLATIPITGTGINPARSFGAAVIYNKSKPWDDHWIFWVGPFIGAAIAAFYHQFVLRASGSKSLGSFRSAANV |
| 3954 | sp|O60683|PEX10\_HUMAN | MAPAAASPPEVIRAAQKDEYYRGGLRSAAGGALHSLAGARKWLEWRKEVELLSDVAYFGLTTLAGYQTLGEEYVSIIQVDPSRIHVPSSLRRGVLVTLHAVLPYLLDKALLPLEQELQADPDSGRPLQGSLGPGGRGCSGARRWMRHHTATLTEQQRRALLRAVFVLRQGLACLQRLHVAWFYIHGVFYHLAKRLTGITYLRVRSLPGEDLRARVSYRLLGVISLLHLVLSMGLQLYGFRQRQRARKEWRLHRGLSHRRASLEERAVSRNPLCTLCLEERRHPTATPCGHLFCWECITAWCSSKAECPLCREKFPPQKLIYLRHYR |
| 3955 | sp|Q9FNP4|PIA2\_ARATH | MLQEPSAAFSLRRNSFRRRSPRSNVDDRGWNPLHIKARKGDLKSVKQLLDQGMDVNALAWGPKSKGVSALHLAAEGGHIEVMDLLLERGANIDAKTWGSCGWTPLHAAAKERKREAVKFLVENGAFLADDITDTRFNPPVHYCHGLEWAYEEMKKLNSESSSSSGGDTSSSSDN |
| 3956 | sp|Q66LN0|PGES2\_BOVIN | MAHAVRALWPHGRALAWRLGDRPALGLHAQSRAGFTGAAGGSGPAATARKGGPRLLGAAALALGGALGLYHTARWHLRAQDLRAERSATQLSLSSRLQLTLYQYKTCPFCSKVRAFLDFHALPYQVVEVNPVRRAEIKFSSYRKVPIVMAQEGESLQQLNDSSVIISALKTYLVSGQPLADIITYYPPMKAVNDQGKEVTEFCNKYWLMLDEKEAQRMYGGKEARTEEMKWRQWADDWLVHLISPNVYRTPAEALASFDYIVKEGNFGTVEGAMAKYMGAAAMYFISKRLKRRHHLRDDVREDLYEAANKWVAAVGKDRPFMGGQKPNLADLAVYGVLRVMEGLEAFDDLMRHTHIQPWYLRVEKAIAEAPQ |
| 3957 | sp|Q94131|PIE1\_CAEEL | MAQTKPIAEQMAALNNSDDTSFAADRSNSLLNATCPARIQNSVDQRKINRSFNDSLSSGYSGKWLRPKREALKITPLAQIDEAPATKRHSSAKDKHTEYKTRLCDAFRREGYCPYNDNCTYAHGQDELRVPRRRQEYYSRDPPRERRDSRSRRDDVDTTINRSSSSASKHHDENRRPSNNHGSSNRRQICHNFERGNCRYGPRCRFIHVEQMQHFNANATVYAPPSSDCPPPIAYYHHHPQHQQQFLPFPMPYFLAPPPQAQQGAPFPVQYIPQQHDLMNSQPMYAPMAPTYYYQPINSNGMPMMDVTIDPNATGGAFEVFPDGFFSQPPPTIIS |
| 3958 | sp|Q9SB00|PHR\_ARATH | MASTVSVQPGRIRILKKGSWQPLDQTVGPVVYWMFRDQRLKDNWALIHAVDLANRTNAPVAVVFNLFDQFLDAKARQLGFMLKGLRQLHHQIDSLQIPFFLLQGDAKETIPNFLTECGASHLVTDFSPLREIRRCKDEVVKRTSDSLAIHEVDAHNVVPMWAASSKLEYSARTIRGKINKLLPDYLIEFPKLEPPKKKWTGMMDKKLVDWDSLIDKVVREGAEVPEIEWCVPGEDAGIEVLMGNKDGFLTKRLKNYSTDRNNPIKPKALSGLSPYLHFGQVSAQRCALEARKVRSTSPQAVDTFLEELIVRRELSDNFCYYQPHYDSLKGAWEWARKSLMDHASDKREHIYSLEQLEKGLTADPLWNASQLEMVYQGKMHGFMRMYWAKKILEWTKGPEEALSISIYLNNKYEIDGRDPSGYVGCMWSICGVHDQGWKERPVFGKIRYMNYAGCKRKFNVDSYISYVKSLVSVTKKKRKAEEQLTRDSVDPKITIV |
| 3959 | sp|O09012|PEX5\_MOUSE | MAMRELVEGECGGANPLMKLATHFTQDKALRQEGLRPGPWPPGASAAETVSKPLGVGTEDELVSEFLQDQNATLVSRAPQTFKMDDLLAEMQEIEQSNFRQAPQRAPGVADLALSENWAQEFLAAGDAVDVAQDYNETDWSQEFIAEVTDPLSVSPARWAEEYLEQSEEKLWLGDQEGSSTADRWYDEYHPEEDLQHTASDFVSKVDDPKLANSEFLKFVRQIGEGQVSLESAAGSGGAQAEQWAAEFIQQQGTSEAWVDQFTRPGNKIAALQVEFERAKSAIESDVDFWDKLQAELEEMAKRDAEAHPWLSDYDDLTSASYDKGYQFEEENPLRDHPQPFEEGLHRLEEGDLPNAVLLFEAAVQQDPKHMEAWQYLGTTQAENEQELLAISALRRCLELKPDNRTALMALAVSFTNESLQRQACETLRDWLRYSPAYAHLVAPGEEGATGAGPSKRILGSLLSDSLFLEVKDLFLAAVRLDPTSIDPDVQCGLGVLFNLSGEYDKAVDCFTAALSVRPNDYLMWNKLGATLANGNQSEEAVAAYRRALELQPGYIRSRYNLGISCINLGAHREAVEHFLEALNMQRKSRGPRGEGGAMSENIWSTLRLALSMLGQSDAYGAADARDLSALLAMFGLPQ |
| 3960 | sp|P01833|PIGR\_HUMAN | MLLFVLTCLLAVFPAISTKSPIFGPEEVNSVEGNSVSITCYYPPTSVNRHTRKYWCRQGARGGCITLISSEGYVSSKYAGRANLTNFPENGTFVVNIAQLSQDDSGRYKCGLGINSRGLSFDVSLEVSQGPGLLNDTKVYTVDLGRTVTINCPFKTENAQKRKSLYKQIGLYPVLVIDSSGYVNPNYTGRIRLDIQGTGQLLFSVVINQLRLSDAGQYLCQAGDDSNSNKKNADLQVLKPEPELVYEDLRGSVTFHCALGPEVANVAKFLCRQSSGENCDVVVNTLGKRAPAFEGRILLNPQDKDGSFSVVITGLRKEDAGRYLCGAHSDGQLQEGSPIQAWQLFVNEESTIPRSPTVVKGVAGGSVAVLCPYNRKESKSIKYWCLWEGAQNGRCPLLVDSEGWVKAQYEGRLSLLEEPGNGTFTVILNQLTSRDAGFYWCLTNGDTLWRTTVEIKIIEGEPNLKVPGNVTAVLGETLKVPCHFPCKFSSYEKYWCKWNNTGCQALPSQDEGPSKAFVNCDENSRLVSLTLNLVTRADEGWYWCGVKQGHFYGETAAVYVAVEERKAAGSRDVSLAKADAAPDEKVLDSGFREIENKAIQDPRLFAEEKAVADTRDQADGSRASVDSGSSEEQGGSSRALVSTLVPLGLVLAVGAVAVGVARARHRKNVDRVSIRSYRTDISMSDFENSREFGANDNMGASSITQETSLGGKEEFVATTESTTETKEPKKAKRSSKEEAEMAYKDFLLQSSTVAAEAQDGPQEA |
| 3961 | sp|Q16816|PHKG1\_HUMAN | MTRDEALPDSHSAQDFYENYEPKEILGRGVSSVVRRCIHKPTSQEYAVKVIDVTGGGSFSPEEVRELREATLKEVDILRKVSGHPNIIQLKDTYETNTFFFLVFDLMKRGELFDYLTEKVTLSEKETRKIMRALLEVICTLHKLNIVHRDLKPENILLDDNMNIKLTDFGFSCQLEPGERLREVCGTPSYLAPEIIECSMNEDHPGYGKEVDMWSTGVIMYTLLAGSPPFWHRKQMLMLRMIMSGNYQFGSPEWDDYSDTVKDLVSRFLVVQPQNRYTAEEALAHPFFQQYLVEEVRHFSPRGKFKVIALTVLASVRIYYQYRRVKPVTREIVIRDPYALRPLRRLIDAYAFRIYGHWVKKGQQQNRAALFENTPKAVLLSLAEEDY |
| 3962 | sp|P43088|PF2R\_HUMAN | MSMNNSKQLVSPAAALLSNTTCQTENRLSVFFSVIFMTVGILSNSLAIAILMKAYQRFRQKSKASFLLLASGLVITDFFGHLINGAIAVFVYASDKEWIRFDQSNVLCSIFGICMVFSGLCPLLLGSVMAIERCIGVTKPIFHSTKITSKHVKMMLSGVCLFAVFIALLPILGHRDYKIQASRTWCFYNTEDIKDWEDRFYLLLFSFLGLLALGVSLLCNAITGITLLRVKFKSQQHRQGRSHHLEMVIQLLAIMCVSCICWSPFLVTMANIGINGNHSLETCETTLFALRMATWNQILDPWVYILLRKAVLKNLYKLASQCCGVHVISLHIWELSSIKNSLKVAAISESPVAEKSAST |
| 3963 | sp|Q86SQ0|PHLB2\_HUMAN | MEEHSYIQKELDLQNGSLEEDSVVHSVENDSQNMMESLSPKKYSSSLRFKANGDYSGSYLTLSQPVPAKRSPSPLGTSVRSSPSLAKIQGSKQFSYDGTDKNIPMKPPTPLLNTTSSLSGYPLGRADFDHYTGRDSERALRLSEKPPYSKYSSRHKSHDNVYSLGGLEGRKASGSLLAMWNGSSLSDAGPPPISRSGAASMPSSPKQARKMSIQDSLALQPKLTRHKELASENINLRTRKYSSSSLSHMGAYSRSLPRLYRATENQLTPLSLPPRNSLGNSKRTKLGEKDLPHSVIDNDNYLNFSSLSSGALPYKTSASEGNPYVSSTLSVPASPRVARKMLLASTSSCASDDFDQASYVGTNPSHSLLAGESDRVFATRRNFSCGSVEFDEADLESLRQASGTPQPALRERKSSISSISGRDDLMDYHRRQREERLREQEMERLERQRLETILSLCAEYTKPDSRLSTGTTVEDVQKINKELEKLQLSDEESVFEEALMSPDTRYRCHRKDSLPDADLASCGSLSQSSASFFTPRSTRNDELLSDLTRTPPPPSSTFPKASSESSYLSILPKTPEGISEEQRSQELAAMEETRIVILNNLEELKQKIKDINDQMDESFRELDMECALLDGEQKSETTELMKEKEILDHLNRKIAELEKNIVGEKTKEKVKLDAEREKLERLQELYSEQKTQLDNCPESMREQLQQQLKRDADLLDVESKHFEDLEFQQLEHESRLDEEKENLTQQLLREVAEYQRNIVSRKEKISALKKQANHIVQQAQREQDHFVKEKNNLIMMLQREKENLCNLEKKYSSLSGGKGFPVNPNTLKEGYISVNEINEPCGNSTNLSPSTQFPADADAVATEPATAVLASQPQSKEHFRSLEERKKQHKEGLYLSDTLPRKKTTSSISPHFSSATMGRSITPKAHLPLGQSNSCGSVLPPSLAAMAKDSESRRMLRGYNHQQMSEGHRQKSEFYNRTASESNVYLNSFHYPDHSYKDQAFDTLSLDSSDSMETSISACSPDNISSASTSNIARIEEMERLLKQAHAEKTRLLESREREMEAKKRALEEEKRRREILEKRLQEETSQRQKLIEKEVKIRERQRAQARPLTRYLPVRKEDFDLRSHVETAGHNIDTCYHVSITEKTCRGFLIKMGGKIKTWKKRWFVFDRNKRTFSYYADKHETKLKGVIYFQAIEEVYYDHLKNANKSPNPLLTFSVKTHDRIYYMVAPSPEAMRIWMDVIVTGAEGYTHFLL |
| 3964 | sp|Q9H8W4|PKHF2\_HUMAN | MVDRLANSEANTRRISIVENCFGAAGQPLTIPGRVLIGEGVLTKLCRKKPKARQFFLFNDILVYGNIVIQKKKYNKQHIIPLENVTIDSIKDEGDLRNGWLIKTPTKSFAVYAATATEKSEWMNHINKCVTDLLSKSGKTPSNEHAAVWVPDSEATVCMRCQKAKFTPVNRRHHCRKCGFVVCGPCSEKRFLLPSQSSKPVRICDFCYDLLSAGDMATCQPARSDSYSQSLKSPLNDMSDDDDDDDSSD |
| 3965 | sp|Q9UUA2|PIF1\_SCHPO | MFSCQSLYKFSHSFRKRIPVMFQRAQQKSSLLHTQNESSHQPSLNKLGGFSSASLNFNSSRSSTNDDQQTFSSQSDNLPSSPITLPAKRGRSAASLKQLDNTVGFDVSKPSLPVFENSGLGSKYSTEIANGVYIDENDFDDDLLLENDIDQKPIPWSSSPIEHTKLTKSMLSSEKRSKNHLSKIYEDHTSEKGASSVISSNITRQGIKRSRTLPWAVDPYRYGDPDPKRTSTSADISQHTVSNDSSNKLSNGRSSSLDSLAKKRMSKSKSTPQISKKFSVPLNSASKSPIGSSLFKTSDSRKKSVPSIFLSDEQKRILDMVVEQQHSIFFTGSAGTGKSVLLRKIIEVLKSKYRKQSDRVAVTASTGLAACNIGGVTLHSFAGVGLARESVDLLVSKIKKNKKCVNRWLRTRVLIIDEVSMVDAELMDKLEEVARVIRKDSKPFGGIQLVLTGDFFQLPPVPENGKESKFCFESQTWKSALDFTIGLTHVFRQKDEEFVKMLNELRLGKLSDESVRKFKVLNRTIEYEDGLLPTELFPTRYEVERSNDMRMQQINQNPVTFTAIDSGTVRDKEFRDRLLQGCMAPATLVLKVNAQVMLIKNIDDQLVNGSLGKVIGFIDDETYQMEKKDAEMQGRNAFEYDSLDISPFDLPDVKQKKYKLIAMRKASSTAIKWPLVRFKLPNGGERTIVVQRETWNIELPNGEVQASRSQIPLILAYAISIHKAQGQTLDRVKVDLGRVFEKGQAYVALSRATTQEGLQVLNFSPAKVMAHPKVVQFYKQLASVNGLPIRNENKAPVQMRGVKNK |
| 3966 | sp|Q15KI9|PHYLO\_ARATH | MRSSFLVSNPPFLPSLIPRYSSRKSIRRSRERFSFPESLRVSLLHGIRRNIEVAQGVQFDGPIMDRDVNLDDDLVVQVCVTRTLPPALTLELGLESLKEAIDELKTNPPKSSSGVLRFQVAVPPRAKALFWFCSQPTTSDVFPVFFLSKDTVEPSYKSLYVKEPHGVFGIGNAFAFVHSSSVDSNGHSMIKTFLSDESAMVTAYGFPDIEFNKYSTVNSKDGSSYFFVPQIELDEHEEVSILAVTLAWNESLSYTVEQTISSYEKSIFQVSSHFCPNVEDHWFKHLKSSLAKLSVEEIHPLEMEHMGFFTFSGRDQADVKELKSIQSSCQFHCKLSPDVVFSNNMLNRETEVSNFLRDEANINAVWASAIIEECTRLGLTYFCVAPGSRSSHLAIAAANHPLTTCLACFDERSLAFHAIGYAKGSLKPAVIITSSGTAVSNLLPAVVEASEDFLPLLLLTADRPPELQGVGANQAINQINHFGSFVRFFFNLPPPTDLIPVRMVLTTVDSALHWATGSACGPVHLNCPFRDPLDGSPTNWSSNCLNGLDMWMSNAEPFTKYFQVQSHKSDGVTTGQITEILQVIKEAKKGLLLIGAIHTEDEIWASLLLAKELMWPVVADVLSGVRLRKLFKPFVEKLTHVFVDHLDHALFSDSVRNLIEFDVVIQVGSRITSKRVSQMLEKCFPFAYILVDKHPCRHDPSHLVTHRVQSNIVQFANCVLKSRFPWRRSKLHGHLQALDGAIAREMSFQISAESSLTEPYVAHMLSKALTSKSALFIGNSMPIRDVDMYGCSSENSSHVVDMMLSAELPCQWIQVTGNRGASGIDGLLSSATGFAVGCKKRVVCVVGDISFLHDTNGLAILKQRIARKPMTILVINNRGGGIFRLLPIAKKTEPSVLNQYFYTAHDISIENLCLAHGVRYVHVGTKSELEDALFVPSVEEMDCIVEVESSINANAIVHSTLERFARQAAENSLGIVSASSFLHPMIKNVLLCQVSGIQYSQYRVKLCDRPTICSDEFSQFHREGFILSLTLEDGSIGYGEVAPLNSNVENLMDVEGQLQLVLHLMNEAKFSYMLPLLNGSISSWIWSELGITASSIFPSVRCGLEMALLNAMAVRHDSSLLGILHYQKEENGSAQPHSVQICALLDSEGTPLEVAYVARKLVQEGFSAIKLKVGRRVSSVQDALVMQEVRRAVGVQIELRADANCRWTFEEAREFGLLVNSCNLKYIEEPVQNKDDLIRFHEETGLPVALDETLDDFEECPLRMLTKYTHPGIVAVVIKPSVVGGFENAALIARWAQQHGKMAVISAAYESGLGLSAYILFASYLEMENVKASTEQKQGTPPSVAHGLGTYRWLSEDVMMNTLGIFRSPYSGFVEGFIADASRNLKDVKINNDVIVRTSKGIPVRRYELRVDVDGFSHFIRVHDVGENAEGSVALFLHGFLGTGEEWIPIMTGISGSARCISVDIPGHGRSRVQSHASETQTSPTFSMEMIAEALYKLIEQITPGKVTIVGYSMGARIALYMALRFSNKIEGAVVVSGSPGLKDPVARKIRSATDDSKARMMVDNGLYIFIENWYNGGLWKSLRNHPHFSKIAASRLLHGDVPSVAKLLSDLSSGRQPSLWEELEDCDTNISLVFGEKDVKYKQIATRMYREMSKSKKSVNNIIEIVEIPEAGHAVHLESPLRVILALRKFLTRVHNSSTETELSQKLLLALKEM |
| 3967 | sp|Q9JJT9|PHAX\_MOUSE | MALEAGDMEEGQLSDSDSDMTVVPSDRPLQMAKVLGGGSAACAPVSHYRTVKHVDSSEESLDSDDDCSLWKRKRQKCHNTPPKPEPFPFGPSGQKTALNGGKKVNNIWGAVLQEQNQDAVATELGILGMEGSIDRSRQSETYNYLLAKKLAKKESQEYTKELDKDLDEYMHGDKKPGSKEDENGQGHLKRKRPVRDRLGNRVEMNYKGRYEITEEDAPEKVADEIAFRLQEPKKDLIARVVRILGNKKAIELLMETAEVEQNGGLFIMNGSRRRTPGGVFLNLLKNTPSISEEQIKDIFYVENQKEYENKKAARKRRTQLLGKKMKQAIKSLNFQEDDDTSRETFASDTNEALASLDEAQEGPGETKLDAEEAIEVDHPQDLDIF |
| 3968 | sp|Q5T6S3|PHF19\_HUMAN | MENRALDPGTRDSYGATSHLPNKGALAKVKNNFKDLMSKLTEGQYVLCRWTDGLYYLGKIKRVSSSKQSCLVTFEDNSKYWVLWKDIQHAGVPGEEPKCNICLGKTSGPLNEILICGKCGLGYHQQCHIPIAGSADQPLLTPWFCRRCIFALAVRKGGALKKGAIARTLQAVKMVLSYQPEELEWDSPHRTNQQQCYCYCGGPGEWYLRMLQCYRCRQWFHEACTQCLNEPMMFGDRFYLFFCSVCNQGPEYIERLPLRWVDVVHLALYNLGVQSKKKYFDFEEILAFVNHHWELLQLGKLTSTPVTDRGPHLLNALNSYKSRFLCGKEIKKKKCIFRLRIRVPPNPPGKLLPDKGLLPNENSASSELRKRGKSKPGLLPHEFQQQKRRVYRRKRSKFLLEDAIPSSDFTSAWSTNHHLASIFDFTLDEIQSLKSASSGQTFFSDVDSTDAASTSGSASTSLSYDSRWTVGSRKRKLAAKAYMPLRAKRWAAELDGRCPSDSSAEGASVPERPDEGIDSHTFESISEDDSSLSHLKSSITNYFGAAGRLACGEKYQVLARRVTPEGKVQYLVEWEGTTPY |
| 3969 | sp|P9WI73|PKNG\_MYCTU | MAKASETERSGPGTQPADAQTATSATVRPLSTQAVFRPDFGDEDNFPHPTLGPDTEPQDRMATTSRVRPPVRRLGGGLVEIPRAPDIDPLEALMTNPVVPESKRFCWNCGRPVGRSDSETKGASEGWCPYCGSPYSFLPQLNPGDIVAGQYEVKGCIAHGGLGWIYLALDRNVNGRPVVLKGLVHSGDAEAQAMAMAERQFLAEVVHPSIVQIFNFVEHTDRHGDPVGYIVMEYVGGQSLKRSKGQKLPVAEAIAYLLEILPALSYLHSIGLVYNDLKPENIMLTEEQLKLIDLGAVSRINSFGYLYGTPGFQAPEIVRTGPTVATDIYTVGRTLAALTLDLPTRNGRYVDGLPEDDPVLKTYDSYGRLLRRAIDPDPRQRFTTAEEMSAQLTGVLREVVAQDTGVPRPGLSTIFSPSRSTFGVDLLVAHTDVYLDGQVHAEKLTANEIVTALSVPLVDPTDVAASVLQATVLSQPVQTLDSLRAARHGALDADGVDFSESVELPLMEVRALLDLGDVAKATRKLDDLAERVGWRWRLVWYRAVAELLTGDYDSATKHFTEVLDTFPGELAPKLALAATAELAGNTDEHKFYQTVWSTNDGVISAAFGLARARSAEGDRVGAVRTLDEVPPTSRHFTTARLTSAVTLLSGRSTSEVTEEQIRDAARRVEALPPTEPRVLQIRALVLGGALDWLKDNKASTNHILGFPFTSHGLRLGVEASLRSLARVAPTQRHRYTLVDMANKVRPTSTF |
| 3970 | sp|Q6QNF3|PGFRB\_CANLF | MQVPGTMPAPVLKGQALWLPLLLMLSPQASGGLVITPPGPELVLNISSTFVLTCSGPAPVVWERLSQEPLQKMARTQDGTFSSTLTLTNVTGLDTGEYFCTYKGSHGLEPDGRKRLYIFVPDPTMGFLPVDPEELFIFLTEITEITIPCRVTDPRLVVTLHEKKVDIPLPIPYDHQRGFSGTFEDKTYVCKTTIGDKEVDSEAYYVYSLQVSSINVSVNAVQTVVRQGENITIMCIVTGNEVVNFEWTYPRMESGRLVEPVTDFLFNVPSHIRSILHIPSAELGDSGTYICNVSESVNDHRDEKSINVTVVESGYVRLLGELDAVQFAELHRSRALQVVFEAYPPPTVVWFKDNRTLGDSSAGEIALSTRNVSETRYVSELTLVRVKVAEAGYYTMRAFHEDAEAQLSFQLQVNVPVRVLELSESHPASGEQTVRCRGRGMPQPHLTWSTCSDLKRCPRELPPTPLGNSSEEESQLETNVTYWPEDQEFEVVSTLRLRRVDQPLSVRCTLHNLLGHDMQEVTVVPHSLPFKVVVISAILALVVLTIISLIILIMLWQKKPRYEIRWKVIESVSSDGHEYIYVDPMQLPYDSTWELPRDQLVLGRTLGSGAFGQVVEATAHGLSHSQATMKVAVKMLKSTARSSEKQALMSELKIMSHLGPHLNVVNLLGACTKGGPIYIITEYCRYGDLVDYLHRNKHTFLQLCSDKRRPPSAELYSNALPAGLPLPSHVSLPGESDGGYMDMSKDESVDYVPMLDMKGGVKYADIESSSYMAPYDNYVPTAPERTCRATLINESPVLSYTDLVGFSYQVANGMEFLASKNCVHRDLAARNVLICEGKLVKICDFGLARDIMRDSNYISKGSTFLPLKWMAPESIFNSLYTTLSDVWSFGILLWEIFTLGGTPYPELPMNEQFYNAIKRGYRMAQPAHASDEIYEIMQKCWEEKFEIRPPFSQLVLLLERLLGEGYKKKYQQVDEEFLRSDHPAVLRSQARLPGFPGLRSPLDTSSVLYTAVQPNEGDNDYIIPLPDPKPEVADGPLESSPSLASSTLNEVNTSSTISCDSPLEPQEEPEPEPEPQPEPQVVPEPPLDSSCPGPRAEAEDSFL |
| 3971 | sp|Q13018|PLA2R\_HUMAN | MLLSPSLLLLLLLGAPRGCAEGVAAALTPERLLEWQDKGIFVIQSESLKKCIQAGKSVLTLENCKQANKHMLWKWVSNHGLFNIGGSGCLGLNFSAPEQPLSLYECDSTLVSLRWRCNRKMITGPLQYSVQVAHDNTVVASRKYIHKWISYGSGGGDICEYLHKDLHTIKGNTHGMPCMFPFQYNHQWHHECTREGREDDLLWCATTSRYERDEKWGFCPDPTSAEVGCDTIWEKDLNSHICYQFNLLSSLSWSEAHSSCQMQGGTLLSITDETEENFIREHMSSKTVEVWMGLNQLDEHAGWQWSDGTPLNYLNWSPEVNFEPFVEDHCGTFSSFMPSAWRSRDCESTLPYICKKYLNHIDHEIVEKDAWKYYATHCEPGWNPYNRNCYKLQKEEKTWHEALRSCQADNSALIDITSLAEVEFLVTLLGDENASETWIGLSSNKIPVSFEWSNDSSVIFTNWHTLEPHIFPNRSQLCVSAEQSEGHWKVKNCEERLFYICKKAGHVLSDAESGCQEGWERHGGFCYKIDTVLRSFDQASSGYYCPPALVTITNRFEQAFITSLISSVVKMKDSYFWIALQDQNDTGEYTWKPVGQKPEPVQYTHWNTHQPRYSGGCVAMRGRHPLGRWEVKHCRHFKAMSLCKQPVENQEKAEYEERWPFHPCYLDWESEPGLASCFKVFHSEKVLMKRTWREAEAFCEEFGAHLASFAHIEEENFVNELLHSKFNWTEERQFWIGFNKRNPLNAGSWEWSDRTPVVSSFLDNTYFGEDARNCAVYKANKTLLPLHCGSKREWICKIPRDVKPKIPFWYQYDVPWLFYQDAEYLFHTFASEWLNFEFVCSWLHSDLLTIHSAHEQEFIHSKIKALSKYGASWWIGLQEERANDEFRWRDGTPVIYQNWDTGRERTVNNQSQRCGFISSITGLWGSEECSVSMPSICKRKKVWLIEKKKDTPKQHGTCPKGWLYFNYKCLLLNIPKDPSSWKNWTHAQHFCAEEGGTLVAIESEVEQAFITMNLFGQTTSVWIGLQNDDYETWLNGKPVVYSNWSPFDIINIPSHNTTEVQKHIPLCALLSSNPNFHFTGKWYFEDCGKEGYGFVCEKMQDTSGHGVNTSDMYPMPNTLEYGNRTYKIINANMTWYAAIKTCLMHKAQLVSITDQYHQSFLTVVLNRLGYAHWIGLFTTDNGLNFDWSDGTKSSFTFWKDEESSLLGDCVFADSNGRWHSTACESFLQGAICHVPPETRQSEHPELCSETSIPWIKFKSNCYSFSTVLDSMSFEAAHEFCKKEGSNLLTIKDEAENAFLLEELFAFGSSVQMVWLNAQFDGNNETIKWFDGTPTDQSNWGIRKPDTDYFKPHHCVALRIPEGLWQLSPCQEKKGFICKMEADIHTAEALPEKGPSHSIIPLAVVLTLIVIVAICTLSFCIYKHNGGFFRRLAGFRNPYYPATNFSTVYLEENILISDLEKSDQ |
| 3972 | sp|Q9ESG9|PMYT1\_MOUSE | MTMPTEGTPPPLSGTPIPVPAYFRHAEPGFSLKRPGGLSRSLPPRPPAKGCIPVSRLFPPRTPGWHQPQPRRVSFLCETSEPLQSPGYDPSRPESFFQQNFQRLSRLGHGSYGEVFKVRSKEDGRLYAVKRYMSPFRGPKDRTRKLAEVGGHEKVGQHPHCVRLERAWEEGGILYLQTELCGPSLQQHCEAWGASLPEAQVWGYLRDILLALDHLHSQGLVHLDVKPANIFLGPRGRCKLGDFGLLVELGSAGAGEAQEGDPRYMAPELLQGSYGTAADVFSLGLTILEVACNMELPHGGEGWQQLRQGYLPPEFTAGLSSELRSVLAMMLEPDPQLRATAEALLALPMLRQPRPWNVLWYMAAEALSRGWALWQALVTLLCWLWHGLVHPASWLQPPGPPATPPGSPPCSPLLDSTLSSSWDNDSIGPSLSPETVLSRITRRTSTPRGRYIPRDALDLTDVDSEPPRGPCPTFEPRNLLSLFEDSLDPA |
| 3973 | sp|Q96PD5|PGRP2\_HUMAN | MAQGVLWILLGLLLWSDPGTASLPLLMDSVIQALAELEQKVPAAKTRHTASAWLMSAPNSGPHNRLYHFLLGAWSLNATELDPCPLSPELLGLTKEVARHDVREGKEYGVVLAPDGSTVAVEPLLAGLEAGLQGRRVINLPLDSMAAPWETGDTFPDVVAIAPDVRATSSPGLRDGSPDVTTADIGANTPDATKGCPDVQASLPDAKAKSPPTMVDSLLAVTLAGNLGLTFLRGSQTQSHPDLGTEGCWDQLSAPRTFTLLDPKASLLTMAFLNGALDGVILGDYLSRTPEPRPSLSHLLSQYYGAGVARDPGFRSNFRRQNGAALTSASILAQQVWGTLVLLQRLEPVHLQLQCMSQEQLAQVAANATKEFTEAFLGCPAIHPRCRWGAAPYRGRPKLLQLPLGFLYVHHTYVPAPPCTDFTRCAANMRSMQRYHQDTQGWGDIGYSFVVGSDGYVYEGRGWHWVGAHTLGHNSRGFGVAIVGNYTAALPTEAALRTVRDTLPSCAVRAGLLRPDYALLGHRQLVRTDCPGDALFDLLRTWPHFTATVKPRPARSVSKRSRREPPPRTLPATDLQ |
| 3974 | sp|Q9VYX7|PGPSA\_DROME | MQPVRFGSPWIMAIGLVLLLLAFVSAGKSRQRSPANCPTIKLKRQWGGKPSLGLHYQVRPIRYVVIHHTVTGECSGLLKCAEILQNMQAYHQNELDFNDISYNFLIGNDGIVYEGTGWGLRGAHTYGYNAIGTGIAFIGNFVDKLPSDAALQAAKDLLACGVQQGELSEDYALIAGSQVISTQSPGLTLYNEIQEWPHWLSNP |
| 3975 | sp|D3ZRC4|PLPL8\_RAT | MSINLTLDIYIYFLNNARSFCGKQRSKQLNFLCSKQYWRMNHVNVHREFHTSKKSCKWNRSEAHCSKHWHSSSNHGVHIGIVKLSTSAPKGLTKVSIHMSRIKSTLNSVSKAIFGSQNEMVSRLAQFKPSSRIFRKVSDRGWLKHKNVKQAIESLKNYSDKSAEKNSFAEQKSYFADKEEGSDKHSLYHYAYRITTRFGESFYFLANHINSYFKNKEKMSQIKEDRQLQDKPCLEESKSISPSPDILTDRPDSGPPLNVEDKLSSSTQLPEALPVSTKQSIANFLSRPTEGVQALVGGYIGGLVPKLKSDPKSQPEEEEEPSKTDEPICKDKKAEEKKRVLLQREKIIARVSIDNRTRALVQALRRTTDPKLCITRVEELTFHLLEFPEGKGVAVKEKIIPYLLRLRQIKDETLQAAVREILALIGYVDPVKGRGIRILAIDGGGTRGVVALQTLRKLVELTQKPIHQLFDYICGVSTGAILAFMLGLFHMPLDECEELYRKLGSDVFTQNVIVGTVKMSWSHAFYDSHTWEKILKDKVGSALMIETARDPLCPKVAAVSTIVNRGQTPKAFVFRNYGHFPGTNSHYLGGCQYKMWQAIRASSAAPGYFAEYALGNDLHQDGGLLLNNPSALALHECKCIWPDTPLECIVSLGTGRYESDVRNTTTYTSLKTKLSNVISSATDTEEVHIMLDGLLPADTYFRFNPVICENIPLDESRNEKLDQLQLEGMKYLERNDEKMKKLAKILSREKTTLQKISDWIKLKSDMYEGLPFFSKL |
| 3976 | sp|Q9NRY7|PLS2\_HUMAN | MRSWNSLFCLNSSRPPGHIVYPKHQAGHTGKQADHLGSQAFYPGRQHDYLVPPAGTAGIPVQNQPGRPEGVPWMPAPPPPLNCPPGLEYLSQIDMILIHQQIELLEVLFSFESSNMYEIKNSFGQRIYFAAEDTNFCIRNCCGRSRPFTLRITDNVGREVITLERPLRCNCCCCPCCLQEIEIQAPPGVPVGYVTQTWHPCLTKFTIKNQKREDVLKISGPCIVCSCIAGVDFEITSLDEQIVVGRISKHWSGFLREAFTDADNFGIQFPRDLDVKMKAVMIGACFLIDYMFFERTR |
| 3977 | sp|Q96QT6|PHF12\_HUMAN | MWEKMETKTIVYDLDTSGGLMEQIQALLAPPKTDEAEKRSRKPEKEPRRSGRATNHDSCDSCKEGGDLLCCDHCPAAFHLQCCNPPLSEEMLPPGEWMCHRCTVRRKKREQKKELGHVNGLVDKSGKRTTSPSSDTDLLDRSASKTELKAIAHARILERRASRPGTPTSSASTETPTSEQNDVDEDIIDVDEEPVAAEPDYVQPQLRRPFELLIAAAMERNPTQFQLPNELTCTTALPGSSKRRRKEETTGKNVKKTQHELDHNGLVPLPVKVCFTCNRSCRVAPLIQCDYCPLLFHMDCLEPPLTAMPLGRWMCPNHIEHVVLNQKNMTLSNRCQVFDRFQDTVSQHVVKVDFLNRIHKKHPPNRRVLQSVKRRSLKVPDAIKSQYQFPPPLIAPAAIRDGELICNGIPEESQMHLLNSEHLATQAEQQEWLCSVVALQCSILKHLSAKQMPSHWDSEQTEKADIKPVIVTDSSVTTSLQTADKTPTPSHYPLSCPSGISTQNSLSCSPPHQSPALEDIGCSSCAEKSKKTPCGTANGPVNTEVKANGPHLYSSPTDSTDPRRLPGANTPLPGLSHRQGWPRPLTPPAAGGLQNHTVGIIVKTENATGPSSCPQRSLVPVPSLPPSIPSSCASIENTSTLQRKTVQSQIGPPLTDSRPLGSPPNATRVLTPPQAAGDGILATTANQRFSSPAPSSDGKVSPGTLSIGSALTVPSFPANSTAMVDLTNSLRAFMDVNGEIEINMLDEKLIKFLALQRIHQLFPSRVQPSPGSVGTHQLASGGHHIEVQRKEVQARAVFYPLLGLGGAVNMCYRTLYIGTGADMDVCLTNYGHCNYVSGKHACIFYDENTKHYELLNYSEHGTTVDNVLYSCDFSEKTPPTPPSSIVAKVQSVIRRRRHQKQDEEPSEEAAMMSSQAQGPQRRPCNCKASSSSLIGGSGAGWEGTALLHHGSYIKLGCLQFVFSITEFATKQPKGDASLLQDGVLAEKLSLKPHQGPVLRSNSVP |
| 3978 | sp|Q06HQ7|PLB1\_MONDO | MRLQPSLLLLALLLLKVTTIQATLGNNSWEEQTWPEGLKNFPFPCRPEEIPFSPPSESVHSLRISDIRVVGAIGNLETTPDAKMVLKRQKWIERNQMQTCMQVMTVLSDFIKKFSPSVLPLLCPSREKVLPRMRNEDLGPQARELVQHMKKNQKLNFRNDWKLINVFFNAQSQCHPCSSSQKEGNMTSSMQELIRLLDYLQKEVPKAFVNLVDISELGNSIQSNNQENGPRDINEVCECPQEPSRLTTAVQRWYYQNSWEKLLTSGRYDTKDTFTVIYQSFLHEMEPSVFPIKQTSGSSLKKLSTALAVSLWNGMIDPTGKKEEFFTTGQRIPVKCPTQKHPYLFTYRNNNKLSSTPEIKRISETREGTEIRCPDMDPSNAVPTSVHHLRPADIKVIGALGDSLTAGNGAGSTPGNILDVLTQYRGLSWSIGGNENISTVTTLANILREFNPSLIGFSTGTGNQNSAAAFLNQAVAGATSETLPSQARRLVDLMKENKRINFQDDWKIVTLFIGGNDLCDSCSDPPRYSSQNFTAHIGKALDILHAEVPRVFVNLVTVLSIVSLRELYQEESINCPRVILRSLCPCVLKFKDNSTELTTLIELNKQYQEETHRLVDSGRYDTRDDFTVVLQPFLEQVPMPKTPEGLPDSSFFAPDCFHFHSKAHARVARSLWNNMLEPVGEKKKEENLENIVDLICPSESQPYLRTYKNSNYTYPTATPTSSPKPDYGSQLWCEDRAPSASFPTSVHALKPADIQVVAAVGDSLTAGNGIGSKPDDLPDVITQYRGLSYSAGGDASLESVTTLPNILREFNMNLTGFAVGVGSADDANAFLNQAVPGAKAEGLKKQVQTLVQKMKSDPRINFQRDWKVITLLIGTTDLCDYCTDSNLYSATNFSAYLRDALDFLHREVPRALVNLVDFMNPIIFRQVFLGNQDKCPMTQACSLCNCLLTVREDSPELARMKEVVKVYQTKIRELVESGRYDTREDFTIVLQPFLEEVKLAFQDGIPDVSFFAPDCIHPNQKFHSQLSRALWNNMLQPLGKKMDFLDLTADTTLSCPSLEEPFLRTYRNSNYTYPANPAIENWGSDFLCPEQGSSNSAPSSVHQLRPADIKVVAALGDSLTTAVGAGAKNNSNWSTAWRGLSWSIGGDGTLETHTTLPNILKKFNPHLHGFSTGTQEEAAGLNVAVEGAIAQDMPSQARILVDRMKNSSEINLDQDWKLITIFVGSNDLCQYCENPEAHSVKNYVQSLQQALDIFYKELPRAFINVVEIMELVGLRQIQGEKCAVTTQSICPCFGRSLDNSPELQEMKNINRHFQSGSSLITYHHQYMEREDFAVVVQPFFQSTVVPLDDKGKPDLSFFSVDCFHFSERGHAEMAIALWNNMLEPVGQKQTYNNFTHSRTKVKCPTSENPYFFTMRNSGLLRKEASHKTPSVPFWAVLVAAAASFIVGVVLVMLWRTKKCSRREERPISLVATVF |
| 3979 | sp|O57604|PODXL\_CHICK | MRAPLLLPLLPLLLFGVSSGNNDKTTHSTTVSPETTKQITTITVTTSQVQGSISASKPSSTAPTAVMSFTKAQEAATSSKQHDSSTSSIPPPSTSITPSIITTSPQGKTPSTPALTHTPDQNTKTTGRQDDTSHVSVASTSASQQVSSSASAAVPTTTSAVTSSATQQKVSPTDSSEILLKPSASPNSTQVTSPSRTPKGFLSTVTTSPHIADNGSTALNQLKSTVSSSEVPVSSFLDKDHSVSSSTSATNQHLSLSSHRPTSPVPKFECSTPHSGSVPSTSSKTSLSSPSSSTKNATVTTTMTTAKAAYTSQGDGSVTHKSGVTAQSPTSAPLPTPTLKDHMKSKSPDQTHSNVSPPNEVICEDQIGEVRPILNLKEEKTCDDWKKASNEAFFEVFCSGRRHAFNSTRDRCTVKLASSNHRRWAVHVIVHRVLDPAAVFEELKEKRNELEKLGITNVTYLNQEMEEEIKDQSSTPLIITIVTLAGSLLLIAAIYGCCHQRFSQKKSQQRLTEELQTMENGYHDNPTLEVMETGSEMQEKKVNLNGELGDSWIVPLDTIMKEDLEEEDTHL |
| 3980 | sp|Q01177|PLMN\_RAT | MDHKEIILLFLLFLKPGQGDSLDGYVSTQGASLHSLTKKQLAAGSIADCLAKCEGETDFICRSFQYHSKEQQCVIMAENSKTSSIIRMRDVILFEKRVYLSECKTGIGKGYRGTMSKTKTGVTCQKWSDTSPHVPKYSPSTHPSEGLEENYCRNPDNDEQGPWCYTTDPDQRYEYCNIPECEEECMYCSGEKYEGKISKTMSGLDCQSWDSQSPHAHGYIPAKFPSKNLKMNYCRNPDGEPRPWCFTTDPNKRWEYCDIPRCTTPPPPPGPTYQCLKGRGENYRGTVSVTASGKTCQRWSEQTPHRHNRTPENFPCKNLEENYCRNPDGETAPWCYTTDSQLRWEYCEIPSCGSSVSPDQSDSSVLPEQTPVVQECYQGNGKSYRGTSSTTNTGKKCQSWVSMTPHSHSKTPANFPDAGLEMNYCRNPDNDQRGPWCFTTDPSVRWEYCNLKRCSETGGGVAESAIVPQVPSAPGTSETDCMYGNGKEYRGKTAVTAAGTPCQEWAAQEPHSHRIFTPQTNPRAGLEKNYCRNPDGDVNGPWCYTMNPRKLYDYCNIPLCASLSSFECGKPQVEPKKCPGRVVGGCVANPHSWPWQISLRTRFSGQHFCGGTLISPEWVLTAAHCLEKSSRPEFYKVILGAHEERILGSDVQQIAVTKLVLEPNDADIALLKLSRPATITDNVIPACLPSPNYVVADRTLCYITGWGETKGTPGAGRLKEAQLPVIENKVCNRAEYLNNRVKSTELCAGHLAGGIDSCQGDSGGPLVCFEKDKYILQGVTSWGLGCARPNKPGVYVRVSRYVNWIEREMRND |
| 3981 | sp|P52168|PNR\_DROME | MGILLSDGDSTSDQQSTRDYPHFSGDYQNVTLSAASASTSASASATHVAAVKMYHSSAVAAYTDLAAAGSAASAGVGVGVSGYHQQAVNAPVYVPSNRQYNHVAAHFGSAAAQNAWTTEGFGSAHAQFYSPNAAVMMGSWRSAYDPSGFQRSSPYESAMDFQFGEGRECVNCGAISTPLWRRDGTGHYLCNACGLYHKMNGMNRPLIKPSKRLVSATATRRMGLCCTNCGTRTTTLWRRNNDGEPVCNACGLYYKLHGVNRPLAMRKDGIQTRKRKPKKTGSGSAVGAGTGSGTGSTLEAIKECKEEHDLKPSLSLERHSLSKLHTDMKSGTSSSSTLMGHHSAQQQQQQQQQQQQQQQQQQQQSAHQQCFPLYGQTTTQQQHQQHGHSMTSSSGQAHLSARHLHGAAGTQLYTPGSSSGGGSASAYTSHSAETPALSNGTPSPHYQHHHHLGGTHGHHVTAAAAHHHFHAAAAVAAYGVKTEASATNYDYVNNCYFGGTFGALGGAATTTAMAGGAASELAGYHHQHNVIQAAKLMATS |
| 3982 | sp|Q9FN02|PPP7\_ARATH | METVPPSPITWPDGGALTNDWVHGLMSCFEWSSWNLPPSQLPSLLPVNVFDSLVLTAHKILHKERNCVHIDDLDSVSNVVVVGDIHGQLHDLLFLLKDTGFPCQNRCYVFNGDYVDRGAWGLETFLVLLSWKVLMPDRVYLLRGNHESKYCTSMYGFEKEVLTKYGDKGKHVYRKCLGCFEGLPLASIISGRVYTAHGGLFRSPVLPKRTTRGKKNRRVVLLEPEPSSMKLGTLDELMQARRSVLDPPWEGSNLIPGDVLWSDPSMTPGLSPNEQRGIGLLWGPDCTEDFLKKYELKLIIRSHEGPDAREKRTGLGGMDNGYTIDHNVESGKLITIFSAPDYPQFQATEERYKNKGAYIILQAPDFSDPQFHSFEAVKPRPKAHPYYDFENVIDSDDEMDKSAMDTNNEQPNS |
| 3983 | sp|O81103|PPO\_PRUAR | MATAPSPTTMGTYSSLISTNSFSTFLPNKSQLSLSGKSKHYVARRSSISCKATNNNNSNNQNEQQEESSRLLGKLDRRNILIGLGGLYGATTLDRKPFAFADPIAPPDLTTCKPAEITPGGSETVPCCPPVTTKIKTFKPDLSIPLRTSPAAHQVTDEYLAKFKKAQAAMRALPDDDPRSMVQQAKVHCAYCNGAYPQVGFTDNDIQVHFSWLFFPFHRMYLYFYERILGKLIDDPTFALPYWNWDSPVGFPIPDIYTDTSSPLYDQYRNADHQPPVLVDLSYGGKDDDVDEQTRIDENLAIMYRQMVSGAKTPDLFFGHAYRAGNLNTGKYPGTIENMPHNNIHIWVGDPSQTHQEDMGNFYSAGRDPLFYAHHANVDRMWNIWKTLGGKRKDITDTDWLDAEFLFYDENAELVRVKVRDSLEPEKQLRYNYEPVSLPWLFTKPTARKTKNKTKAKVAATQLTSKFPATLVEVTTVEVARPKPRKRSKKEKVDEEELLIIKDIEFEGTEAVKFDVFINDDAESLSRRDKSEFAGSFVHVPQGKTTKAKTKTNLKLGITDLLEDLGAEDDSSVLVTLVPRVSNSPITIGGFKIEYSS |
| 3984 | sp|Q89277|POLG\_YEFVF | MSGRKAQGKTLGVNMVRRGVRSLSNKIKQKTKQIGNRPGPSRGVQGFIFFFLFNILTGKKITAHLKRLWKMLDPRQGLAALRKVKRVVAGLMRGLSSRKRRSHDVLTVQFLILGMLLMTGGVTLVRKNRWLLLNVTSEDLGKTFSMGTGNCTTNILEAKYWCPDSMEYNCPNLSPREEPDDIDCWCYGVENVRVAYGKCDSAGRSRRSRRAIDLPTHENHGLKTRQEKWMTGRMGERQLQKIERWFVRNPFFAVTALTIAYLVGSNMTQRVVIALLVLAVGPAYSAHCIGITDRDFIEGVHGGTWVSATLEQDKCVTVMAPDKPSLDISLETVAIDGPVEARKVCYNAVLTHVKINDKCPSTGEAHLAEENEGDNACKRTYSDRGWGNGCGLFGKGSIVACAKFTCAKSMSLFEVDQTKIQYVIRARLHVGAKQENWKTDIKTLKFDALSGSQEAEFTGYGKATLECQVQTAVDFGNSYIAEMEKESWIVDRQWAQDLTLPWQSGSGGVWREMHHLVEFEPPHAATIRVLALGDQEGSLKTALTGAMRVTKDTNDNNLYKLHGGHVSCRVKLSALTLKGTSYKMCTDKMSFVKNPTDTGHGTVVMQVKVPKGAPCRIPVIVADDLTAAINKGILVTVNPIASTNDDEVLIEVNPPFGDSYIIVGTGDSRLTYQWHKEGSSIGKLFTQTMKGAERLAVMGDAAWDFSSAGGFFTSVGKGIHTVFGSAFQGLFGGLNWITKVIIGAVLIWVGINTRNMTMSMSMILVGVIMMFLSLGVGADQGCAINFAKRELKCGDGIFIFRDSDDWLNKYSYYPEDPVKLASIVKASFEEGKCGLNSVDSLEHEMWRSRADEINAILEENEVDISVVVQDPKNVYQRGTHPFSRIRDGLQYGWKTWGKNLVFSPGRKNGSFIIDGKSRKECPFSNRVWNSFQIEEFGTGVFTTRVYMDAVFEYTIDCDGSILGAAVNGKKSAHGSPTFWMGSHEVNGTWMIHTLEALDYKECEWPLTHTIGTSVEESEMFMPRSIGGPVSSHNHIPGYKVQTNGPWMQVPLEVKREACPGTSVIIDGNCDGRGKSARSTTDSGKIIPEWCCRSCTMPPVSFHGSDGCWYPMEIRPRKTHESHLVRSWVTAGEIHAVPFGLVSMMIALEVVLRKRQGPKQMLVGGVVLLGAMLVGQVTLLDLLKLTVAVGLHFHEMNNGGDAMYMALIAAFSVRPGLLIGFGLRTLWSPRERLVLALGAAMVEIALGGMMGGLWKYLNAVSLCILTINAVASRKASNTILPLMALLTPVTMAEVRLATMLFCTVVIIGVLYQNSKDTSMQKTIPLVALTLTSYLGLTQPFLGLCAFLATRIFGRRSIPVNEALAAAGLVGVLAGLAFQEMENFLGPIAVGGILMMLVSVAGRVDGLELKKLGEVAWEEEAEISGSSARYDVALSEQGEFKLLSEEKVPWDQVVMTSLALVGAAIHPFALLLVLAGWLFHVRGARRSGDVLWDIPTPKVIEECEHLEDGIYGIFQSTFLGASQRGVGVAQGGVFHTMWHVTRGAFLVRNGKKLIPSWASVKEDLVAYGGSWKLEGRWDGEEEVQLIAAVPGKNVVNVQTKPSLFKVRNGGEIGAVALDYPSGTSGSPIVNRNGEVIGLYGNGILVGDNSFVSAISQTEVKEEGKEELQEIPTMLKKGKTTILDFHPGAGKTRRFLPQILAECARRRLRTLVLAPTRVVLSEMKEAFHGLDVKFHTQAFSAHGSGREVIDAMCHATLTYRMLEPTRIVNWEVIIMDEAHFLDPASIAARGWAAHRARANESATILMTATPPGTSDEFPHSNGEIEDVQTDIPSEPWNTGHDWILADKRPTAWFLPSIRAANVMAASLRKAGKSVVVLNRKTFEREYPTIKQKKPDFILATDIAEMGANLCVERVLDCRTAFKPVLVDEGRKVAIKGPLRISASSAAQRRGRIGRNPNRDGDSYYYSEPTSEDNAHHVCWLEASMLLDNMEVRGGMVAPLYGVEGTKTPVSPGEMRLRDDQRKVFRELVRNCDLPVWLSWQVAKAGLKTNDRKWCFEGPEEHEILNDSGETVKCRTPGGAKKPLRPRWCDERVSSDQSALSEFIKFAEGRRGAAEVLVVLSELPDFLAKKGGEAMDTISVLLHSEEGSRAYRNALSMMPEAMTIVMLFILAGLLTSGMVIFFMSPKGISRMSMAMGTMAGCGYLMFLGGVKPTHISYIMLIFFVLMVVVIPEPGQQRSIQDNQVAFLIIGILTLVSVVAANELGMLEKTKEDLFGKKNSIPSSASPWSWPDLDLKPGAAWTVYVGIVTMLSPMLHHWIKVEYGNLSLSGIAQSASVLSFMDKGIPFMKMNISVIMLLISGWNSITVMPLLCGIGCAMLHWSLILPGIKAQQSKLAQRRVFHGVAKNPVVDGNPTVDIEEAPEMPVLYEKKLALYLLLALSLASVAMCRTPFSLAEGIVLASAALGPLIEGNTSLLWNGPMAVSMTGVMRGNYYAFVGVMYNLWKMKTGRRGTANGKTLGEVWKRELNLLDKQQFELYKRTDIVEVDRDTARRHLAEGKVDTGVAVSRGTAKLRWFHERGYVKLEGRVIDLGCGRGGWCYYAAAQKEVSGVKGFTLGRDGHEKPMNVQSLGWNIITFKDKTDIHRLEPVKCDTLLCDIGESSSSSVTEGERTVRVLDTVEKWLACGVDNFCVKVLAPYMPDVLEKLELLQRRFGGTVIRNPLSRNSTHEMYYVSGARSNVTFTVNQTSRLLMRRMRRPTGKVTLEADVTLPIGTRSVETDKGPLDKEAIEERVERIKSEYMTSWFYDNDNPYRTWHYCGSYVTKTSGSAASMVNGVIKILTYPWDKIEEVTRMAMTDTTPFGQQRVFKEKVDTRAKDPPAGTRKIMKVVNRWLFRHLAREKNPRLCTKEEFIAKVRSHAAIGAYLEEQEQWKTANEAVQDPKFWELVDEERKLHQQGRCRTCVYNMMGKREKKLSEFGKAKGSRAIWYMWLGARYLEFEALGFLNEDHWASRENSGGGVEGIGLQYLGYVIRDLAAMDGGGFYADDTAGWDTRITEADLDDEQEILNYMSPHHKKLAQAVMEMTYKNKVVKVLRPAPGGKAYMDVISRRDQRGSGQVVTYALNTITNLKVQLIRMAEAEMVIHHQHVQDCDESVLTRLEAWLTEHGCNRLRRMAVSGDDCVVRPIDDRFGLALSHLNAMSKVRKDISEWQPSKGWNDWENVPFCSHHFHELQLKDGRRIVVPCREQDELIGRGRVSPGNGWMIKETACLSKAYANMWSLMYFHKRDMRLLSLAVSSAVPTSWVPQGRTTWSIHGKGEWMTTEDMLEVWNRVWITNNPHMQDKTMVKEWRDVPYLTKRQDKLCGSLIGMTNRATWASHIHLVIHRIRTLVGQEKYTDYLTVMDRYSVDADLQPGELI |
| 3985 | sp|P15309|PPAP\_HUMAN | MRAAPLLLARAASLSLGFLFLLFFWLDRSVLAKELKFVTLVFRHGDRSPIDTFPTDPIKESSWPQGFGQLTQLGMEQHYELGEYIRKRYRKFLNESYKHEQVYIRSTDVDRTLMSAMTNLAALFPPEGVSIWNPILLWQPIPVHTVPLSEDQLLYLPFRNCPRFQELESETLKSEEFQKRLHPYKDFIATLGKLSGLHGQDLFGIWSKVYDPLYCESVHNFTLPSWATEDTMTKLRELSELSLLSLYGIHKQKEKSRLQGGVLVNEILNHMKRATQIPSYKKLIMYSAHDTTVSGLQMALDVYNGLLPPYASCHLTELYFEKGEYFVEMYYRNETQHEPYPLMLPGCSPSCPLERFAELVGPVIPQDWSTECMTTNSHQGTEDSTD |
| 3986 | sp|P20892|POL\_HV1OY | MGARASVLSGGELDKWEKIRLRPGGKKKYQLKHIVWASRELERFAINPGLLETSEGCRQILGQLQPSLKTGSEEIRSLYNTVATLYCVHQKIEVKDTKEALDKIEEEQNKSKKKAQQTAADTGNSSQVSQNYPIVQNLQGQMVHQPISPRTLNAWVKVVEEKAFSPEVIPMFSALAEGATPQDLNTMLNTVGGHQAAMQMLKETINEEAAEWDRLHPVHAGPIAPGQMREPRGSDIAGTTSTLQEQIGWMTNNPPIPVGEIYKRWIILGLNKIVRMYSPTSILDIRQGPKEPFRDYVDRFYKTLRAEQASQDVKNWMTETLLVQNANPDCKTILKALGPAATLEEMMTACQGVGGPGHKARVLAEAMSQVNSVTVMMQKGNFKNQRKTVKCFNCGKEGHIAKNCRAPRKKGCWKCGREGHQMKDCTERQANFLREDLAFPQGKAREFSSEQTRANSPTSRELRVWGRDNNSPSEAGADRQGTVSFNLPQITLWQRPIVTIKIGGQLKEALLDTGADDTVLEEMNLPGRWKPKMIGGIGGFIKVRQYDQILIEICGHKAIGTVLVGPTPVNIIGRNLLTQLGCTLNFPISPIETVPVKLKPGMDGPKVKQWPLTEEKIKVLIEICTEMEKEGKISKVGPENPYNTPVFAIKKKDSTKWRKLVDFRELNKRTQDFWEVQLGIPHPAGLKKKKSVTVLDVGDAYFSVPLDKDFRKYTAFTIPSINNETPGIRYQYNVLPQGWKGSPAIFQSSMTKILEPFRKQNPDIVIYQYMDDLYVGSDLEIGQHRTKIEELRQHLLRWGFTTPDKKHQKEPPFLWMGYELHPDKWTVQPIMLPEKDSWTVNDIQKLVGKLNWASQIYAGIKVKNLCKLLRGTKALTEVIPLTEEAELELAENREILKEPVHGVYYDPSKDLVAELQKQGQGQWTYQIYQEPFKNLKTGKYARMRGAHTNDVKQLTEAVQKITQESIVIWGKTPKFKLPIQKETWEAWWTEYWQATWIPEWEFVNTPPLVKLWYQLEKDPIVGAETFYVDGAANRETKLGKAGYVTDRGRQKVVSLTDTTNQKTELQAIHLALQDSGLEVNIVTDSQYALGIIQAQPDKSESELVSQIIEQLIKKEKVYLAWVPAHKGIGGNEQVDKLVSAGIRKVLFLDGIDKAQEEHEKYHSNWRAMASDFNLPPVVAKEIVASCDKCQLKGEAMHGQVDCSPGIWQLDCTHLEGKIILVAVHVASGYIEAEVIPAETGQETAYFILKLAGRWPVKTIHTDNGSNFTSTTVKAACWWAGIKQEFGIPYNPQSQGVVESMNNELKKIIGQVRDQAEHLKTAVQMAVFIHNFKRKGGIGGYSAGERIVDIIATDIQTKELQKQITKIQNFRVYYRDSREPLWKGPAKLLWKGEGAVVIQDNSDIKVVPRRKAKIIRDYGKQMAGDDCVASRQDED |
| 3987 | sp|Q8MXI4|PMK2\_CAEEL | MGMSATMGDSASIPGVFFADFGPAPPEITPEGYHEVELNKTKWVLPQWYNSLKPLGEGAYGVVCTAEYEPTGDRVAIKKFFRPFQSTIHAKRTYRELKLLRTLQHDNVLEMIDVFTPDPDASSLNNVYFVSVLMGSDLQNIMKIQRLTDEQIQLLIYQVLRGLKYIHSAGIIHRDLKPSNIAVNERCEVKVFLSFSQLSFLILSFFKILDFGLARAQDAEMTGYVATRWYRAPEIMLNWMHYTQTVDVWSVGCILAELVSGRPLFPGDDHIDQLTKIMSVVGTPKEEFWSKIQSEEARNYIKNRSPIIRQDFVTLFPMASPYALELLEMMLILDPDRRISVSSALRHDYLREYSVPNDEPVAMDTVINSIVTIDPAEERATTLSDWRELIWNEIRLFQNSARRLSFVSCTDTEEEPMKI |
| 3988 | sp|P23865|PRC\_ECOLI | MNMFFRLTALAGLLAIAGQTFAVEDITRADQIPVLKEETQHATVSERVTSRFTRSHYRQFDLDQAFSAKIFDRYLNLLDYSHNVLLASDVEQFAKKKTELGDELRSGKLDVFYDLYNLAQKRRFERYQYALSVLEKPMDFTGNDTYNLDRSKAPWPKNEAELNALWDSKVKFDELSLKLTGKTDKEIRETLTRRYKFAIRRLAQTNSEDVFSLAMTAFAREIDPHTNYLSPRNTEQFNTEMSLSLEGIGAVLQMDDDYTVINSMVAGGPAAKSKAISVGDKIVGVGQTGKPMVDVIGWRLDDVVALIKGPKGSKVRLEILPAGKGTKTRTVTLTRERIRLEDRAVKMSVKTVGKEKVGVLDIPGFYVGLTDDVKVQLQKLEKQNVSSVIIDLRSNGGGALTEAVSLSGLFIPAGPIVQVRDNNGKVREDSDTDGQVFYKGPLVVLVDRFSASASEIFAAAMQDYGRALVVGEPTFGKGTVQQYRSLNRIYDQMLRPEWPALGSVQYTIQKFYRVNGGSTQRKGVTPDIIMPTGNEETETGEKFEDNALPWDSIDAATYVKSGDLTAFEPELLKEHNARIAKDPEFQNIMKDIARFNAMKDKRNIVSLNYAVREKENNEDDATRLARLNERFKREGKPELKKLDDLPKDYQEPDPYLDETVNIALDLAKLEKARPAEQPAPVK |
| 3989 | sp|Q6NUP7|PP4R4\_HUMAN | MHPPPPAAAMDFSQNSLFGYMEDLQELTIIERPVRRSLKTPEEIERLTVDEDLSDIERAVYLLSAGQDVQGTSVIANLPFLMRQNPTETLRRVLPKVREALHVAGVEMQLTAAMSFLTILQDESVSIHAYTHSFLQVILLHLEHRDTGVSNAWLETLLSVIEVLPKETLRHEILNPLVSKAQLSQTVQSRLVSCKILGKLTNKFDAHTIKREILPLVKSLCQDVEYEVRSCMCRQLENIAQGIGTELTKSVVLPELIELSRDEGSSVRLAAFETLVNLLDIFDTDDRSQTILPLVKSFCEKSFKADESILISLSFHLGKLCHGLYGIFTPDQHLRFLEFYKKLCTLGLQQENGHNENQIPPQILEQEKKYISVRKNCAYNFPAMIVFVDPKNFHMELYSTFFCLCHDPEVPVRYTIAICFYEVSKLLNSGVYLIHKELITLLQDESLEVLDALIDHLPEILELMSTGGESSVQENKLSSLPDLIPALTAAEQRAAASLKWRTHEKLLQKYACLPHVISSDQIYYRFLQRMFTIMMTNNVLPVQKAASRTLCIFLRYNRKQEQRHEVIQKLIEQLGQGKSYWNRLRFLDTCEFIIEIFSKSFFCKYFFLPAIELTHDPVANVRMKLCYLLPKVKSTLKIPADKHLLQQLEMCVRKLLCQEKDKDVLAIVKRTVLELDRMEMSMDAFQKKFYEKDLLDQEKEREELLLLEMEQLEKEKQQNDGRPMSDKMFEKKRRDTKTPTQSLPKNIPISVPGPSSVTPSTSKEIKKSKLIRSQSFNNQAFHAKYGNLEKCASKSSTTGYTTSVSGLGKTSVLSLADDSFRTRNASSVPSSFSPNTPLPSTSRGTGNSVDPKSSGSKDTQPRKATLKSRKSNP |
| 3990 | sp|P26678|PPLA\_HUMAN | MEKVQYLTRSAIRRASTIEMPQQARQKLQNLFINFCLILICLLLICIIVMLL |
| 3991 | sp|Q9JGK8|POLS\_SAGV | MNYIPTQTFYGRRWRPRPAFRPWRVPMQPAPPMVIPELQTPIVQAQQMQQLISAVSALTTKQNGKAPKKPKKKPQKAKAKKNEQQKKNENKKPPPKQKNLAKKKKPGKRERMCMKIENDCIFEVKLDGKVTGYACLVGDKVMKPAHVKGVIDNPDLAKLTYKKSSKYDLECAQIPVHMKSDASKYTHEKPEGHYNWHHGAVQYSGGRFTIPTGAGKPGDSGRPIFDNKGRVVAIVLGGANEGARTALSVVTWTKDMVTRYTPEGTEEWSAALMMCVLANVTFPCSEPACAPCCYEKQPEQTLRMLEDNVDRPGYYDLLEATMTCNNSARHRRSVTEHFNVYKATKPYLAYCADCGDGQFCYSPVAIEKIRDEASDGMIKIQVAAQIGINKRGTHEHNKIRYIVGHYMKEANRDSLQVHTSGVCAIRGTMGHFIVAYCPPGDELKVQFQDAESHTQACKVQYKHDPAPVGREKFTVRPHFGIEVPCTTYQLTTAPTEEEIDMHTPPDIPDITLLSQQSGDVKITAGGKTIRYNCTCGSGNVGTTSSDKTINSCKIAQCHAAVTNHDKWQYTSSFVPRADQLPRKGKVHVPFPLTNSTCRVPLARAPGVTYGKRELTVKLHPDHPTLLTYRSLGADPRPYEEWIDRYVERTIPVTEDGIEYRWGNNPPVRLWAQLTTEGKPHGWPHEIILYYYGLYPAATIAAVSAAGLAVVLSLLASCYMFATARRKCLTPYALTPGAVVPVTLGVLCCAPRAHAASFAESMAYLWDENQTLFWLELATPLAAIIILVCCLKNLLCCCQPLSFLVLVSLGTPVVKSYEHTATIPNVVGFPYKAHIERNGFSPMTLQLEVLGTSLEPTLNLEYITCEYKTVVPPPYIKCCGASECRSMERPDYQCQVYTGVYPFMWGGAYCFCDTENTQLSEAYVDRSDVCKHDHAAAYKAHTAAMKATIRISYGNLNQTTTAFVNGEHTVTVGGSRFTFGPISTAWTPFDNKIVVYKNDVYNQDFPPYGSGQPGRFGDVQSRTVESKDLYANTALKLSRPSSGTVHVPYTQTPSGFKYWIKERGTSLNDKAPFGCVIKTNPVRAENCAVGNIPVSMDIPDSAFTRVIDAPAVTNLECQVAVCTHSSDFGGIATLTFKTDKPGKCAVHSHSNVATIQEAAVDIKTDGKITLHFSTASASPAFMVSVCSAKTTCMAACEPPKDHIVPYGASHNNQVFPDMSGTAMTWVQRVAGGLGGLTLAAVAALILVTCVTMRR |
| 3992 | sp|Q5XXP3|POLS\_CHIK3 | MEFIPTQTFYNRRYQPRPWAPRPTIQVIRPRPRPQRQAGQLAQLISAVNKLTMRAVPQQKPRRNRKNKKQRQKKQAPQNDPKQKKQPPQKKPAQKKKKPGRRERMCMKIENDCIFEVKHEGKVMGYACLVGDKVMKPAHVKGTIDNADLAKLAFKRSSKYDLECAQIPVHMKSDASKFTHEKPEGYYNWHHGAVQYSGGRFTIPTGAGKPGDSGRPIFDNKGRVVAIVLGGANEGARTALSVVTWNKDIVTKITPEGAEEWSLALPVLCLLANTTFPCSQPPCTPCCYEKEPESTLRMLEDNVMRPGYYQLLKASLTCSPHRQRRSTKDNFNVYKATRPYLAHCPDCGEGHSCHSPIALERIRNEATDGTLKIQVSLQIGIKTDDSHDWTKLRYMDSHTPADAERAGLLVRTSAPCTITGTMGHFILARCPKGETLTVGFTDSRKISHTCTHPFHHEPPVIGRERFHSRPQHGKELPCSTYVQSTAATAEEIEVHMPPDTPDRTLMTQQSGNVKITVNGQTVRYKCNCGGSNEGLTTTDKVINNCKIDQCHAAVTNHKNWQYNSPLVPRNAELGDRKGKIHIPFPLANVTCRVPKARNPTVTYGKNQVTMLLYPDHPTLLSYRNMGQEPNYHEEWVTHKKEVTLTVPTEGLEVTWGNNEPYKYWPQMSTNGTAHGHPHEIILYYYELYPTMTVVIVSVASFVLLSMVGTAVGMCVCARRRCITPYELTPGATVPFLLSLLCCVRTTKAATYYEAAAYLWNEQQPLFWLQALIPLAALIVLCNCLKLLPCCCKTLAFLAVMSIGAHTVSAYEHVTVIPNTVGVPYKTLVNRPGYSPMVLEMELQSVTLEPTLSLDYITCEYKTVIPSPYVKCCGTAECKDKSLPDYSCKVFTGVYPFMWGGAYCFCDAENTQLSEAHVEKSESCKTEFASAYRAHTASASAKLRVLYQGNNITVAAYANGDHAVTVKDAKFVVGPMSSAWTPFDNKIVVYKGDVYNMDYPPFGAGRPGQFGDIQSRTPESKDVYANTQLVLQRPAAGTVHVPYSQAPSGFKYWLKERGASLQHTAPFGCQIATNPVRAVNCAVGNIPISIDIPDAAFTRVVDAPSVTDMSCEVPACTHSSDFGGVAIIKYTASKKGKCAVHSMTNAVTIREADVEVEGNSQLQISFSTALASAEFRVQVCSTQVHCAAACHPPKDHIVNYPASHTTLGVQDISTTAMSWVQKITGGVGLIVAVAALILIVVLCVSFSRH |
| 3993 | sp|Q1X881|POLG\_YEFVN | MSGRKAQGKTLGVNMVRRGVRSLSNKIKQKTKQIGNRPGPSRGVQGFIFFFLFNILTGKKLTAHLKKLWRMLDPRQGLAVLRKVKRVVASLMRGLSSRKRRSNEMALFPLLLLGLLALSGGVTLVRKNRWLLLNVTAEDLGKTFSVGTGNCTTNILEAKYWCPDSMEYNCPNLSPREEPDDIDCWCYGVENVRVAYGRCDAVGRSKRSRRAIDLPTHENHGLKTRQEKWMTGRMGERQLQKIERWLVRNPFFAVTALAIAYLVGNNTTQRVVIALLVLAVGPAYSAHCIGITDRDFIEGVHGGTWVSATLEQDKCVTVMAPDKPSLDISLQTVAIDGPAEARKVCYSAVLTHVKINDKCPSTGEAHLAEENDGDNACKRTYSDRGWGNGCGLFGKGSIVACAKFTCAKSMSLFEVDQTKIQYVIRAQLHVGAKQENWNTDIKTLKFDALSGSQEAEFTGYGKATLECQVQTAVDFGNSYIAEMEKDSWIVDRQWAQDLTLPWQSGSGGIWREMHHLVEFEPPHAATIRVLALGNQEGSLKTALTGAMRVTKDENDNNLYKLHGGHVSCRVKLSALTLKGTSYKMCTDKMSFVKNPTDTGHGTVVMQVKVPKGAPCKIPVIVADDLTAAVNKGILVTVNPIASTNDDEVLIEVNPPFGDSYIIVGTGDSRLTYQWHKEGSSIGKLFTQTMKGAERLAVMGDAAWDFSSAGGFFTSVGKGIHTVFGSAFQGLFGGLSWITKVIMGAVLIWVGINTRNMTMSMSMILVGVIMMFLSLGVGADQGCAVNFGKRELKCGDGIFVFRDSDDWLTKYSYYPEDPVKLASIIKASHEEGKCGLNSVDSLEHEMWRSRADEINAIFEENEVDISVVVQDPKNIYQRGTHPFSRIRDGLQYGWKTWGKNLVFSPGRKNGSFIIDGKSRKECPFSNRVWNSFQIEEFGMGVFTTRVFMDATFDYSVDCDGAILGAAVNGKKSAHGSPTFWMGSHEVNGTWMIHTLETLDYKECEWPLTHTIGTSVEESDMFMPRSIGGPVSSHNRIPGYKVQTNGPWMQVPLEVKREVCPGTSVVVDSNCDGRGKSTRSTTDSGKIIPEWCCRSCTMPPVSFHGSDGCWYPMEIRPMKTSDSHLVRSWVTAGEVHAVPFGLVSMMIAMEVVLRRRQGPKQMLVGGVVLLGAMLVGQVTVLDLVKFVVAVGLHFHEINNGGDAMYMALIASFSIRPGLLMGFGLRTLWSPRERLVMAFGAAMVEIALGGMMGGLWQYLNAVSLCVLTINAISSRKASNMILPLMALMTPMTMHEVRMATMLFCTVVIIGVLHQNSKDTSMQKTIPIVALTLTSYMGLTQPFLGLCAYMSTQVFGRRSIPVNEALAAAGLVGVLAGLAFQDMENFLGPIAVGGILMMLVSVAGRVDGLELKKLGEISWEEEAEISGSSSRYDVALSEQGEFKLLSEDKVPWDQIVMTSLALVGAAIHPFALLLVLGGWILHIKGARRSGDVLWDIPTPKVIEECEHLEDGIYGIFQSTFLGASQRGVGVAQGGVFHTMWHVTRGAFLLRNGKKLVPSWASVKEDLVAYGGSWKLDGRWDGEEEVQLIAAVPGKSVVNVQTKPSLFRVKNGGEIGAVALDYPSGTSGSPIVNRNGEVVGLYGNGILVGDNSFVSAISQTELKEESKEELQEIPTMLKKGMTTILDFHPGAGKTRRFLPQILAECARRRLRTLVLAPTRVVLSEMKEAFQGLDVKFHTQAFSAHGSGKEVIDAMCHATLTYRMLEPTRVVNWEVIIMDEAHFLDPASIAARGWAAHRARANESATILMTATPPGTSDEFPHSNGEIEDVQTDIPSEPWTAGHEWILADKRPTAWFLPSIRAANVMAASLRKAGKNVVVLNRKTFEKEYPTIKQKKPDFILATDIAEMGANLCVERVLDCRTAYKPVLVDEGKKVAIKGPLRISASSAAQRRGRIGRNPNRDGDSYYYSEPTSEDNAHHVCWLEASMLLDNMEVRGGMVAPLYGIEGTKTPVSPGEMRLRDDQRRVFRELVRGCDLPVWLAWQVAKAGLKTNDRKWCFEGPEEHEILNDNGETVKCRSPGGAKRALRPRWCDERVSSDQSALADFIKFAEGRRGAAEMLVILTELPDFLAKKGGEAMDTISVFLHSEEGSRAYRNALSMMPEAMTIVMLFLLAGLLTSGAVIFFMSPKGMSRMSMAMGTMAGSGYLMFLGGVKPTHISYVMLIFFVLMVVVIPEPGQQRTIQDNQVAYLIIGILTLLSVVAANELGMLEKTKEDFFGKRDITTPSGAIPWSWPDLDLKPGAAWTVYVGIVTMLSPMLHHWIKVEYGNLSLSGIAQSASVLSFMDKGIPFMKMNISVVILLVSGWNSITVIPLLCGIGGAMLHWTLILPGIKAQQSKLAQKRVFHGVAKNPVVDGNPTADIEEAPEMPALYEKKLALYLLLALSLMSVAMCRTPFSLAEGIVLSSAALGPLIEGNTSLLWNGPMAVSMTGVMRGNYYAFVGVMYNLWKMKTERRGSASGKTLGEVWKRELNLLDKQQFEMYKRTDIIEVDRDMARRHLAEGKVDTGVAVSRGTAKLRWFHERGYVKLEGRVTDLGCGRGGWCYYAAAQKEVSGVKGYTLGRDGHEKPMNVQSLGWNIVTFKDKTDVHRLEPLKCETLLCDIGESSPSSATEGERTLRVLDTVEKWLACGVDNFCIKVLAPYMPDVIEKLELLQRRFGGTVIRNPLSRNSTHEMYYVSGARSNITFTVNQTSRLLMRRMRRPTGKVTLEADVILPIGTRSVETDKGPLDKDAIEERVERIKNEYATTWFYDNDNPYRTWHYCGSYVTKTSGSAASMINGVIKILTFPWDRIEEVTRMAMTDTTPFGQQRVFKEKVDTRAKDPPAGTRKIMKVVNRWLFRHLSREKNPRLCTKEEFIAKVRSHAAVGAFLEEQEQWKTANEAVQDPKFWEMVDAERKLHQQGRCQSCVYNMMGKREKKLSEFGKAKGSRAIWYMWLGARFLEFEALGFLNEDHWASRENSGGGVEGTGLQYLGYVIRDLSAKEGGGFYADDTAGWDTRITEADLDDEQEIMSYMSPEQRKLAWAIMEMTYKNKVVKVLRPAPGGKAFMDIISRRDQRGSGQVVTYALNTITNLKVQLIRMAEAEMVINHQHVQECGENVLERLETWLAENGCDRLSRMAVSGDDCVVRPVDDRFGLALSHLNAMSKVRKDISEWQPSKGWTDWENVPFCSHHFHELVLKDGRKIVVPCRDQDELIGRGRVSPGNGWMIKETACLSKAYANMWSLMYFHKRDMRLLSFAVSSAVPTAWVPSGRTTWSVHGRGEWMTTEDMLDVWNRVWVLNNPHMTDKTTIKEWRDVPYLTKRQDKLCGSLIGMTNRATWASHIHLVIHRIRTLIGQEKFTDYLTVMDRYSVDADLQPGELI |
| 3994 | sp|P27960|POLG\_HCVJ5 | MSTNPKPQRKTKRNTNRRPQDVKFPGGGQIVGGVYLLPRRGPRLGVRATRKTSERSQPRGRRQPIPKDRRSTGKSWGKPGYPWPLYGNEGLGWAGWLLSPRGSRPSWGPNDPRHRSRNVGKVIDTLTCGFADLMGYIPVVGAPLGGVARALAHGVRVLEDGVNYATGNLPGCSFSIFLLALLSCITVPVSAVQVKNTSNSYMVTNDCSNDSITWQLQGAVLHVPGCVPCEKVGNMSRCWIPVSPNVAVRQPGALTQGLRTHIDMVVVSATLCSALYVGDLCGGVMLAAQMFIVSPQHHWFVQECNCSIYPGAITGHRMAWDMMMNWSPTATMILAYAMRVPEVIIDIISGAHWGVMFGLAYFSMQGAWAKVVVILLLAAGVDANTRTVAGSAAATTRGFTSMFSSGSKQNLQLINTNGSWHINRTALNCNDSLNTGFIASLFYVNRFNSSGCPHRLSVCRSIEAFRIGWGTLQYEDNVTNPEDMRPYCWHYPPKPCGIVPARSVCGPVYCFTPSPVVVGTTDARGVPTYTWGENETDVFLLNSTRPPRGSWFGCTWMNSTGFTKTCGAPPCRIRADFNASTDLLCPTDCFRKHSDATYIKCGSGPWLTPKCMVDYPYRLWHYPCTVNYSIFKIRMYVGGVEHRLTAACNFTRGDPCNLEDRDRSQLSPLLHSTTEWAILPCTYSDLPALSTGLLHLHQNIVDVQYMYGLSPALTKYVVRWEWVVLLFLLLADARVCA |
| 3995 | sp|Q5WQY5|POLS\_CHIKN | MEFIPTQTFYNRRYQPRPWTPRPTIQVIRPRPRPQRKAGQLAQLISAVNKLTMRAVPQQKPRKNRKNKKQKQKQQAPRNNMNQKKQPPKKKPAQKKKKPGRRERMCMKIENDCIFEVKHEGKVTGYACLVGDKVMKPAHVKGTIDNADLAKLAFKRSSKYDLECAQIPVHMKSDASKFTHEKPEGYYNWHHGAVQYSGGRFTIPTGAGKPGDSGRPIFDNKGRVVAIVLGGANEGARTALSVVTWNKDIVTKITPEGAEEWSLAIPVMCLLANTTFPCSQPPCAPCCYEKEPEKTLRMLEDNVMSPGYYQLLQASLTCSPRRQRRSIKDNFNVYKATRPYLAHCPDCGEGHSCHSPVALERIRNEATDGTLKIQVSLQIGIKTDDSHDWTKLRYMDNHMPADAERAGLLVRTSAPCTITGTMGHFILARCPKGETLTVGFTDGRKISHSCTHPFHHDPPVIGREKFHSRPQHGKELPCSTYVQSNAATAEEVEVHMPPDTPDRTLMSQQSGNVKITVNSQTVRYKCNCGDSNEGLTTTDKVINNCKVDQCHAAVTNHKKWQYNSPLVPRNVELGDRKGKIHIPFPLANVTCRGPKARNPTVTYGKNQVIMLLYPDHPTLLSYRNMGEEPNYQEEWVTHKKEVRLTVPTEGLEVTWGNNEPYKYWPQLSTNGTAHGHPHEIILYYYELYPTMTVVVVSVASFVLLSMVGVAVGMCMCARRRCITPYELTPGATVPFLLSLICCIRTAKAATYQEAAVYLWNEQQPLFWLQAIIPLAALIVLCNCLRLLPCCCKTLTFLAVMSVGAHTVSAYEHVTVIPNTVGVPYKTLVNRPGYSPMVLEMELLSVTLEPTLSLDYITCEYKTVIPSPYVKCLRYSECKDKSLPDYSCKVFTGVYPFMWGGAYCFCDTENTQLSEAHVEKSESCKTEFASAYRAHTASASGKLRVLYQGNNVTVSAYANGDHAVTVKDAKFIVGPMSSAWTPFDNKIVVYKGDVYNMDYPPFGAGRPGQFGDIQSRTPESEDVYANTQLVLQRPSAGTVHVPYSQAPSGFKYWLKERGASLQHTAPFGCQIATNPVRAMNCAVGNMPISIDIPDAAFTRVVDAPSLTDMSCEVPACTHSSDFGGAAIIKYAASKKGKCAVHSMTNAVTIREAEIEVEGNSQLQISFSTALASAEFRVQVCSTQVHCAAECHPPKDHIVNYPASHTTLGVQDISATAMSWVQKITGGVGLVVAVAALILIVVLCVSFSRH |
| 3996 | sp|Q9XW79|PP4C1\_CAEEL | MALACTDSANSTFSRVDSPTSGPSDQLTTHDLDRHIEKLMRCELIAEQDVKTLCAKAREILAEEGNVQVIDSPVTICGDIHGQFYDLMELFKVGGPVPNTNYLFLGDFVDRGFYSVETFLLLLALKARYPDRMMLIRGNHESRQITQVYGFYDECLRKYGNASVWKHCTEVFDYLSLAAVIDGKVFCVHGGLSPSISTMDQIRVIDRKQEVPHDGPMCDLLWSDPEEGNVGWGLSPRGAGYLFGADASKTFCETNGVDLICRAHQLVMEGYKWHFNEKVLTVWSAPNYCYRCGNVAAILELDENLNKEFTIFEAAPQENRGAPAKKPHADYFL |
| 3997 | sp|Q81754|POLG\_HCVH9 | MSTNPKPQRKTKRNTNRRPQDVKFPGGGQIVGGVYLLPRRGPRVGVRATRKTSERSQPRGRRQPIPKARRPEGRSWAQPGYPWPLYGNEGCGWAGWLLSPRGSRPSWGPSDPRRRSRNLGKVIDTLTCGFADLMGYIPLVGAPLGGAARALAHGVRVLEDGVNYATGNLPGCSFSIFLLALLSCLTVPASAVGVRNSSGVYHVTNDCPNASVVYETENLIMHLPGCVPYVREGNASRCWVSLSPTVAARDSRVPVSEVRRRVDSIVGAAAFCSAMYVGDLCGSIFLVGQIFTFSPRHHWTTQDCNCSIYPGHVTGHRMAWDMMMNWSPTGALVVAQLLRIPQAIVDMIAGAHWGVLAGLAYYSMVGNWAKVVVVLLLFAGVDAETRVTGGAAGHTAFGFASFLAPGAKQKIQLINTNGSWHINRTALNCNESLDTGWLAGLLYYHKFNSSGCPERMASCQPLTAFDQGWGPITHEGNASDDQRPYCWHYALRPCGIVPAKKVCGPVYCFTPSPVVVGTTDRAGVPTYRWGANETDVLLLNNSRPPMGNWFGCTWMNSSGFTKTCGAPACNIGGSGNNTLLCPTDCFRKHPDATYSRCGSGPWLTPRCLVDYPYRLWHYPCTVNYTIFKIRMFVGGVEHRLDAACNWTRGERCDLDDRDRAELSPLLLSTTQWQVLPCSFTTLPALSTGLIHLHQNIVDVQYLYGLSSAVTSWVIKWEYVVLLFLLLADARICACLWMMLLISQVEAALENLIVLNAASLVGTHGIVPFFIFFCAAWYLKGKWAPGLAYSVYGMWPLLLLLLALPQRAYALDQELAASCGATVFICLAVLTLSPYYKQYMARGIWWLQYMLTRAEALLQVWVPPLNARGGRDGVVLLTCVLHPHLLFEITKIMLAILGPLWILQASLLKVPYFVRAHGLIRLCMLVRKTAGGQYVQMALLKLGAFAGTYIYNHLSPLQDWAHSGLRDLAVATEPVIFSRMEIKTITWGADTAACGDIINGLPVSARRGREVLLGPADALTDKGWRLLAPITAYAQQTRGLLGCIITSLTGRDKNQVEGEVQIVSTATQTFLATCVNGVCWTVYHGAGSRTIASASGPVIQMYTNVDQDLVGWPAPQGARSLTPCTCGASDLYLVTRHADVIPVRRRGDNRGSLLSPRPISYLKGSSGGPLLCPMGHAVGIFRAAVCTRGVAKAVDFVPVESLETTMRSPVFTDNSSPPTVPQSYQVAHLHAPTGSGKSTKVPAAYAAQGYKVLVLNPSVAATLGFGAYMSKAHGIDPNVRTGVRTITTGSPITHSTYGKFLADGGCSGGAYDIIICDECHSVDATSILGIGTVLDQAETAGVRLTILATATPPGSVTVPHSNIEEVALSTEGEIPFYGKAIPLNYIKGGRHLIFCHSKKKCDELAAKLVGLGVNAVAFYRGLDVSVIPTTGDVVVVATDALMTGYTGDFDSVIDCNTCVVQTVDFSLDPTFSIETSTVPQDAVSRSQRRGRTGRGKHGIYRYVSPGERPSGMFDSVVLCECYDAGCAWYELTPAETTVRLRAYLNTPGLPVCQDHLEFWESVFTGLTHIDAHFLSQTKQSGENFPYLVAYQATVCARAKAPPPSWDQMWKCLIRLKPTLTGATPLLYRLGGVQNEITLTHPITKYIMACMSADLEVVTSTWVLVGGVLAALAAYCLSTGSVVIVGRIILSGKPAVIPDREVLYREFDEMEECAAHIPYLEQGMHLAEQFKQKALGLLQTASKQAETITPAVHTNWQKLESFWAKHMWNFVSGIQYLAGLSTLPGNPAIASLMSFTAAVTSPLTTQQTLLFNILGGWVAAQLAAPAAATAFVGAGITGAVIGSVGLGKVLVDILAGYGAGVAGALVAFKIMSGEAPTAEDLVNLLPAILSPGALVVGVVCAAILRRHVGPGEGAVQWMNRLIAFASRGNHVSPTHYVPESDASVRVTHILTSLTVTQLLKRLHVWISSDCTAPCAGSWLKDVWDWICEVLSDFKSWLKAKLMPQLPGIPFVSCQRGYRGVWRGEGIMHARCPCGADITGHVKNGSMRIVGPKTCSNTWRGSFPINAHTTGPCTPSPAPNYTFALWRVSAEEYVEVRRLGDFHYITGVTTDKIKCPCQVPSPEFFTEVDGVRLHRYAPPCKPLLRDEVTFSIGLNEYLVGSQLPCEPEPDVAVLTSMLTDPSHITAETAARRLNRGSPPSLASSSASQLSAPSLKATCTTHHDSPDADLITANLLWRQEMGGNITRVESENKIVILDSFDPLVAEEDDREISVPAEILLKSKKFPPAMPIWARPDYNPPLVEPWKRPDYEPPLVHGCPLPPPKPTPVPPPRRKRTVVLDESTVSSALAELATKTFGSSTTSGVTSGEAAESSPAPSCDGELDSEAESYSSMPPLEGEPGDPDLSDGSWSTVSSDGGTEDVVCCSMSYSWTGALITPCAAEETKLPINALSNSLLRHHNLVYSTTSRSAGQRQKKVTFDRLQVLDDHYRDVLKEAKAKASTVKAKLLSVEEACSLTPPHSARSKFGYGAKDVRSHSSKAIRHINSVWQDLLEDNTTPIDTTIMAKNEVFCVKPEKGGRKPARLIVYPDLGVRVCEKRALYDVVKQLPIAVMGTSYGFQYSPAQRVDFLLNAWKSKKNPMGFSYDTRCFDSTVTEADIRTEEDLYQSCDLVPEARAAIRSLTERLYIGGPLTNSKGQNCGYRRCRASGVLTTSCGNTITCYLKASAACRAAKLRDCTMLVCGDDLVVICESAGVQEDAANLRAFTEAMTRYSAPPGDPPQPEYDLELITSCSSNVSVAHDGAGKRVYYLTRDPETPLARAAWETARHTPVNSWLGNIIMFAPTLWVRMVLMTHFFSILIAQEHLEKALDCEIYGAVHSVQPLDLPEIIQRLHGLSAFSLHSYSPGEINRVAACLRKLGVPPLRAWRHRARSVRATLLSQGGRAAICGKYLFNWAVKTKLKLTPLPSASQLDLSNWFTGGYSGGDIYHSVSHVRPRWFFWCLLLLSVGVGIYLLPNR |
| 3998 | sp|Q9UPN7|PP6R1\_HUMAN | MFWKFDLHTSSHLDTLLEREDLSLPELLDEEDVLQECKVVNRKLLDFLLQPPHLQAMVAWVTQEPPDSGEERLRYKYPSVACEILTSDVPQINDALGADESLLNRLYGFLQSTGSLNPLLASFFSKVMGILINRKTDQLVSFLRKKDDFVDLLLQHIGTSAIMDLLLRLLTCVERPQLRQDVVNWLNEEKIVQRLIEQIHPSKDENQHSNASQSLCDIIRLSREQMIQVQDSPEPDQLLATLEKQETIEQLLSNMFEGEQSQSVIVSGIQVLLTLLEPRRPRSESVTVNSFFSSVDGQLELLAQGALESTVSSVGALHALRPRLSCFHQLLLEPPKLEPLQMTWGMLAPPLGNTRLHVVKLLASALSANDAALTHELLALDVPNTMLDLFFHYVFNNFLHAQVEGCVSTMLSLGPPPDSSPETPIQNPVVKHLLQQCRLVERILTSWEENDRVQCAGGPRKGYMGHLTRVAGALVQNTEKGPNAEQLRQLLKELPSEQQEQWEAFVSGPLAETNKKNMVDLVNTHHLHSSSDDEDDRLKEFNFPEEAVLQQAFMDFQMQRMTSAFIDHFGFNDEEFGEQEESVNAPFDKTANITFSLNADDENPNANLLEICYKDRIQQFDDDEEEEDEEEAQGSGESDGEDGAWQGSQLARGARLGQPPGVRSGGSTDSEDEEEEDEEEEEDEEGIGCAARGGATPLSYPSPGPQPPGPSWTATFDPVPTDAPTSPRVSGEEELHTGPPAPQGPLSVPQGLPTQSLASPPARDALQLRSQDPTPPSAPQEATEGSKVTEPSAPCQALVSIGDLQATFHGIRSAPSSSDSATRDPSTSVPASGAHQPPQTTEGEKSPEPLGLPQSQSAQALTPPPIPNGSAPEGPASPGSQ |
| 3999 | sp|Q86TP1|PRUN1\_HUMAN | MEDYLQGCRAALQESRPLHVVLGNEACDLDSTVSALALAFYLAKTTEAEEVFVPVLNIKRSELPLRGDIVFFLQKVHIPESILIFRDEIDLHALYQAGQLTLILVDHHILSKSDTALEEAVAEVLDHRPIEPKHCPPCHVSVELVGSCATLVTERILQGAPEILDRQTAALLHGTIILDCVNMDLKIGKATPKDSKYVEKLEALFPDLPKRNDIFDSLQKAKFDVSGLTTEQMLRKDQKTIYRQGVKVAISAIYMDLEAFLQRSNLLADLHAFCQAHSYDVLVAMTIFFNTHNEPVRQLAIFCPHVALQTTICEVLERSHSPPLKLTPASSTHPNLHAYLQGNTQVSRKKLLPLLQEALSAYFDSMKIPSGQPETADVSREQVDKELDRASNSLISGLSQDEEDPPLPPTPMNSLVDECPLDQGLPKLSAEAVFEKCSQISLSQSTTASLSKK |
| 4000 | sp|P59747|PRVB\_SCOJP | MAFASVLKDAEVTAALDGCKAAGSFDHKKFFKACGLSGKSTDEVKKAFAIIDQDKSGFIEEEELKLFLQNFKAGARALSDAETKAFLKAGDSDGDGKIGIDEFAAMIKG |
| 4001 | sp|Q9XFT3|PSBQ1\_ARATH | MASMGGLHGASPAVLEGSLKINGSSRLNGSGRVAVAQRSRLVVRAQQSEETSRRSVIGLVAAGLAGGSFVQAVLADAISIKVGPPPAPSGGLPAGTDNSDQARDFALALKDRFYLQPLPPTEAAARAKESAKDIINVKPLIDRKAWPYVQNDLRSKASYLRYDLNTIISSKPKDEKKSLKDLTTKLFDTIDNLDYAAKKKSPSQAEKYYAETVSALNEVLAKLG |
| 4002 | sp|Q16651|PRSS8\_HUMAN | MAQKGVLGPGQLGAVAILLYLGLLRSGTGAEGAEAPCGVAPQARITGGSSAVAGQWPWQVSITYEGVHVCGGSLVSEQWVLSAAHCFPSEHHKEAYEVKLGAHQLDSYSEDAKVSTLKDIIPHPSYLQEGSQGDIALLQLSRPITFSRYIRPICLPAANASFPNGLHCTVTGWGHVAPSVSLLTPKPLQQLEVPLISRETCNCLYNIDAKPEEPHFVQEDMVCAGYVEGGKDACQGDSGGPLSCPVEGLWYLTGIVSWGDACGARNRPGVYTLASSYASWIQSKVTELQPRVVPQTQESQPDSNLCGSHLAFSSAPAQGLLRPILFLPLGLALGLLSPWLSEH |
| 4003 | sp|Q64434|PTK6\_MOUSE | MVSWDKAHLGPKYVGLWDFKARTDEELSFQAGDLLHVTKKEELWWWATLLDAEGKALAEGYVPHNYLAEKETVESEPWFFGCISRSEAMHRLQAEDNSKGAFLIRVSQKPGADYVLSVRDAQAVRHYRIWKNNEGRLHLNEAVSFSNLSELVDYHKTQSLSHGLQLSMPCWKHKTEPLPHWDDWERPREEFTLCKKLGAGYFGEVFEALWKGQVHVAVKVISRDNLLHQHTFQAEIQAMKKLRHKHILSLYAVATAGDPVYIITELMPKGNLLQLLRDSDEKALPILELVDFASQVAEGMCYLESQNYIHRDLAARNVLVTENNLCKVGDFGLARLVKEDIYLSHEHNVPYKWTAPEALSRGHYSIKSDVWSFGVLLHEIFSRGQMPYPGMSNHETFLRVDAGYRMPCPLECPPNIHKLMLSCWSRDPKQRPCFKDLCEKLTGITRYENLV |
| 4004 | sp|P08179|PUR3\_ECOLI | MNIVVLISGNGSNLQAIIDACKTNKIKGTVRAVFSNKADAFGLERARQAGIATHTLIASAFDSREAYDRELIHEIDMYAPDVVVLAGFMRILSPAFVSHYAGRLLNIHPSLLPKYPGLHTHRQALENGDEEHGTSVHFVTDELDGGPVILQAKVPVFAGDSEDDITARVQTQEHAIYPLVISWFADGRLKMHENAAWLDGQRLPPQGYAADE |
| 4005 | sp|Q9JM51|PTGES\_MOUSE | MPSPGLVMESGQVLPAFLLCSTLLVIKMYAVAVITGQMRLRKKAFANPEDALKRGGLQYYRSDPDVERCLRAHRNDMETIYPFLFLGFVYSFLGPNPLIAWIHFLVVLTGRVVHTVAYLGKLNPRLRSGAYVLAQFSCFSMALQILWEVAHHL |
| 4006 | sp|Q14914|PTGR1\_HUMAN | MVRTKTWTLKKHFVGYPTNSDFELKTAELPPLKNGEVLLEALFLTVDPYMRVAAKRLKEGDTMMGQQVAKVVESKNVALPKGTIVLASPGWTTHSISDGKDLEKLLTEWPDTIPLSLALGTVGMPGLTAYFGLLEICGVKGGETVMVNAAAGAVGSVVGQIAKLKGCKVVGAVGSDEKVAYLQKLGFDVVFNYKTVESLEETLKKASPDGYDCYFDNVGGEFSNTVIGQMKKFGRIAICGAISTYNRTGPLPPGPPPEIVIYQELRMEAFVVYRWQGDARQKALKDLLKWVLEGKIQYKEYIIEGFENMPAAFMGMLKGDNLGKTIVKA |
| 4007 | sp|P34230|PXA2\_YEAST | MISTASAFYQKHRVNLLRSSYIILLLATLYNSNSSSSNNKTDKKDSESTVLENKKIEEGKETAVDREEDESSKEELTIVSKHSTDSEDGAIIIDKESKTNHKGGERKGKVDFLFKLLLHDKKCLILFITQAILLNIRTLLSLRVATLDGQLVSTLVRAQYANFTKILLGKWMILGIPASFINSLISYTTKLCAVTINRKVSDFLLSKYLSNHHTFYSVASAESVSEIQDNLTKDIYTFSMNSSLLLNQLLKPMLDLILCSFKLLTSNTSVMGEGTLALGLIVYASNSLLKLIQPNFTRLTMASASLESWFRSLHSNLHSSNEEIALLRGQKRELENVDYSFYRLVLFLNREIKARAIYDVATAFVIKYTWGAAGLVLCSIPIFFKNKPSEDTLQLKEPGNDMTADFITNRRLLVTASSSIGRFVELKRNIQQLRGIRLRLNKFNDLLDANKGDDEKEPRDERCIVEYDDSRIKFENIPLITPANQVLVPELSFDLKHGNHLLIIGPNGCGKSSLFRILGGLWPIRATPNKNHQSKLIMPRRTVDRDCAIFYLPQRPYMGNRSTFREQIIYPDSIEQFKERYHNDYDLGDADLIKILQLLDLEDLVTENMSLLLAQRTSKNDSQQLSTEDNQSPCAIKVRDAFSIVRNWSEELTIGVQQRLAMARMYYHKPKFAVLDECTSAVAPEMEQRMYENAQNFGISLISVCHRTSLWHFHNYLLKFDGKGGYQFGPFNPKERLCNEEKLLELNAILDQQVPLWERKLKDLTIAKESNIIRKSETNLNLFEKIEDPKTSKSNALFNANKGQRITSPTGQETSKRLPLFSQPSSSASSNLLRNNKSLNKKVKTKKEEGKER |
| 4008 | sp|P97613|PTTG1\_RAT | MATLIFVDKDNEEPGSRLASKDGLKLGSGVKALDGKLQVSTPRVGKVFGAPGLPKASRKALGTVNRVTEKPVKSSKPLQSKQPTLSVKKITEKSTKTQGSAPAPDDAYPEIEKFFPFDPLDFESFDLPEEHQISLLPLNGVPLMILNEERGLEKLLHLDPPSPLQKPFLPWESDPLPSPPSALSALDVELPPVCYDADI |
| 4009 | sp|P22858|PTHR\_MOUSE | MLRRLVQQWSVLVFLLSYSVPSRGRSVEGLGRRLKRAVSEHQLLHDKGKSIQDLRRRFFLHHLIAEIHTAEIRATSEVSPNSKPAPNTKNHPVRFGSDDEGRYLTQETNKVETYKEQPLKTPGKKKKGKPGKRREQEKKKRRTRSAWPSTAASGLLEDPLPHTSRTSLEPSLRTH |
| 4010 | sp|Q8TB72|PUM2\_HUMAN | MNHDFQALALESRGMGELLPTKKFWEPDDSTKDGQKGIFLGDDEWRETAWGASHHSMSQPIMVQRRSGQGFHGNSEVNAILSPRSESGGLGVSMVEYVLSSSPADKLDSRFRKGNFGTRDAETDGPEKGDQKGKASPFEEDQNRDLKQGDDDDSKINGRGLPNGMDADCKDFNRTPGSRQASPTEVVERLGPNTNPSEGLGPLPNPTANKPLVEEFSNPETQNLDAMEQVGLESLQFDYPGNQVPMDSSGATVGLFDYNSQQQLFQRTNALTVQQLTAAQQQQYALAAAQQPHIAGVFSAGLAPAAFVPNPYIISAAPPGTDPYTAAGLAAAATLAGPAVVPPQYYGVPWGVYPANLFQQQAAAAANNTASQQAASQAQPGQQQVLRAGAGQRPLTPNQGQQGQQAESLAAAAAANPTLAFGQGLATGMPGYQVLAPTAYYDQTGALVVGPGARTGLGAPVRLMAPTPVLISSAAAQAAAAAAAGGTASSLTGSTNGLFRPIGTQPPQQQQQQPSTNLQSNSFYGSSSLTNSSQSSSLFSHGPGQPGSTSLGFGSGNSLGAAIGSALSGFGSSVGSSASSSATRRESLSTSSDLYKRSSSSLAPIGQPFYNSLGFSSSPSPIGMPLPSQTPGHSLTPPPSLSSHGSSSSLHLGGLTNGSGRYISAAPGAEAKYRSASSTSSLFSSSSQLFPPSRLRYNRSDIMPSGRSRLLEDFRNNRFPNLQLRDLIGHIVEFSQDQHGSRFIQQKLERATPAERQMVFNEILQAAYQLMTDVFGNYVIQKFFEFGSLDQKLALATRIRGHVLPLALQMYGCRVIQKALESISSDQQVISEMVKELDGHVLKCVKDQNGNHVVQKCIECVQPQSLQFIIDAFKGQVFVLSTHPYGCRVIQRILEHCTAEQTLPILEELHQHTEQLVQDQYGNYVIQHVLEHGRPEDKSKIVSEIRGKVLALSQHKFASNVVEKCVTHASRAERALLIDEVCCQNDGPHSALYTMMKDQYANYVVQKMIDMAEPAQRKIIMHKIRPHITTLRKYTYGKHILAKLEKYYLKNSPDLGPIGGPPNGML |
| 4011 | sp|P46664|PURA2\_MOUSE | MSISESSPAATSLPNGDCGRPRARSGGNRVTVVLGAQWGDEGKGKVVDLLAQDADIVCRCQGGNNAGHTVVVDSVEYDFHLLPSGIINPNVTAFIGNGVVIHLPGLFEEAEKNVQKGKGLDGWEKRLIISDRAHIVFDFHQAADGIQEQQRQEQAGKNLGTTKKGIGPVYSSKAARSGLRMCDLVSDFDGFSERFKVLANQYKSIYPTLEIDIEGELQQLKGYMERIKPMVKDGVYFLYEALHGPPKKILVEGANAALLDIDFGTYPFVTSSNCTVGGVCTGLGMPPQNVGEVYGVVKAYTTRVGIGAFPTEQDNEIGELLQTRGREFGVTTGRKRRCGWLDLVSLKYAHMINGFTALALTKLDILDMFTEIKVGVAYKLDGETIPHFPANQEVLNKVEVQYKTLPGWNTDISNARTFKELPVNAQNYVRFIEDELQIPVKWIGVGKSRESMIQLF |
| 4012 | sp|O88902|PTN23\_RAT | LNVNLMLGQAQECLLEKSMLDNRKSFLVARISAQVVDYYKEACRALENPDTASLLGRIQKDWKKLVQMKIYYFAAVAHLHMGKQAEEQQKFGERVAYFQSALDKLNEAIKLAKGQPDTVQDALRFAMDVIGGKYNSAKKDNDFIYHEAVPALDTLQPVKGAPLVKPLPVNPTDPAVTGPDIFAKLVPMAAHEASSLYSEEKAKLLREMLAKIEDKNEVLDQFMDSMQLDPDTVDNLDAYNHIPPQLMEKCAALSVRPDTVKNLVQSMQVLSGVFTDVEASLKDIRDLLEEDELQEQKLQETLGQAGAGPGPSVTKAELGEVRREWAKYTEVHEKASFTNSELHRAMNLHVGNLRLLSGPLDQVRAALPTPALTPEDKAVLQNLKRILAKVQEMRDQRVSLEQQLRELIQKDDITASLVTTDHSEMKKLFEEQLKKYDQLKVYLEQNLAAQDNVLRALTEANVQYAAVRRVLSELDQKWNSTLQTLVASYEAYEDLMKKSQEGKDFYADLESKVAALLERAQSLCRAQEAARQQLLDRELKKKAPPPRPTAPKPLLSRREEGEAAEAGDQPEELRSLPPDMMAGPRLPDPFLGTAAPLHFSPGPFPGSTGPATHYLSGPLPPGTYSGPTQLMQPRAAVPMAPGPVLYPAPVYTSELGLVPRSSPQHGIVSSPYAGVGPPQPIVGLPSAPPPQFSGPELAMDVRPATTTVDSVQAPISSHMALRPGPAPAPPQPCFPVPQPVPQSVPQPQPLPTPYTYSIGTKQHLTGPLPQHHFPPGIPTSFPAPRIGPQPPPQLQPQPQPQPQPQPPPQPQPQPQPQPQPQPQPQPQRPVFGPQPTQQPLPFQHPHLFPSQAPGILTPPPPYPFTPQPGVLGQPPPTRHTQLYPGPPPDTLPPHSGALPFPSPGPPHPHPTLAYGPAPSPRPLGPQATPVSIRGPPPANQPAPSPHLVPSPAPSPGPGPVPSRPPTAEPPPCLRRGAAAADLLSSSPESQHGGTQPPGGGQPLLQPTKVDAAERPTAQALRLIEQDPYEHPERLQKLQQELESFRGQLGDAGALDAVWRELQEAQEHDARGRSIAIARCYSLKNRHQDVMPYDSNRVVLRSGKDDYINASCVEGLSPYCPPLVATQRPLPGTAADFWLMVHEQKVSVIVMLVSEAEMEKQKVARYFPIERGQPMVHGALSVALSSVRTTDTHVERVLSLQFRDQSLKRSLVHLHFPTWPELGLPDSPGNLLRFIQEVHAHYLHQRPLHTPIVVHCSSGVGRTGAFALLYAAVQEVEAGSRIPELPQLVRRMRQQRKHMLQEKLHLKFCHEALVRHVEQVLQRHGVPPPGKPVASMSVSQKSHLPQDSQDLVLGGDVPISSIQATIAKLSIRPLGGLDSPAASLPSLVEPPGLPPASLPEPTPAPPSSPPPPSSPLPEPPQPEEEPSVPEAPSLGPPSSSLELLASLTPEAFSLDSSLRGKQRMSKQNFLQAHNGQGLRAAQPTDDPLSLLDPLWTLNKT |
| 4013 | sp|O60895|RAMP2\_HUMAN | MASLRVERAGGPRLPRTRVGRPAALRLLLLLGAVLNPHEALAQPLPTTGTPGSEGGTVKNYETAVQFCWNHYKDQMDPIEKDWCDWAMISRPYSTLRDCLEHFAELFDLGFPNPLAERIIFETHQIHFANCSLVQPTFSDPPEDVLLAMIIAPICLIPFLITLVVWRSKDSEAQA |
| 4014 | sp|Q62151|RAGE\_MOUSE | MPAGTAARAWVLVLALWGAVAGGQNITARIGEPLVLSCKGAPKKPPQQLEWKLNTGRTEAWKVLSPQGGPWDSVARILPNGSLLLPATGIVDEGTFRCRATNRRGKEVKSNYRVRVYQIPGKPEIVDPASELTASVPNKVGTCVSEGSYPAGTLSWHLDGKLLIPDGKETLVKEETRRHPETGLFTLRSELTVIPTQGGTHPTFSCSFSLGLPRRRPLNTAPIQLRVREPGPPEGIQLLVEPEGGIVAPGGTVTLTCAISAQPPPQVHWIKDGAPLPLAPSPVLLLPEVGHEDEGTYSCVATHPSHGPQESPPVSIRVTETGDEGPAEGSVGESGLGTLALALGILGGLGVVALLVGAILWRKRQPRREERKAPESQEDEEERAELNQSEEAEMPENGAGGP |
| 4015 | sp|P21246|PTN\_HUMAN | MQAQQYQQQRRKFAAAFLAFIFILAAVDTAEAGKKEKPEKKVKKSDCGEWQWSVCVPTSGDCGLGTREGTRTGAECKQTMKTQRCKIPCNWKKQFGAECKYQFQAWGECDLNTALKTRTGSLKRALHNAECQKTVTISKPCGKLTKPKPQAESKKKKKEGKKQEKMLD |
| 4016 | sp|O75771|RA51D\_HUMAN | MGVLRVGLCPGLTEEMIQLLRSHRIKTVVDLVSADLEEVAQKCGLSYKALVALRRVLLAQFSAFPVNGADLYEELKTSTAILSTGIGSLDKLLDAGLYTGEVTEIVGGPGSGKTQVCLCMAANVAHGLQQNVLYVDSNGGLTASRLLQLLQAKTQDEEEQAEALRRIQVVHAFDIFQMLDVLQELRGTVAQQVTGSSGTVKVVVVDSVTAVVSPLLGGQQREGLALMMQLARELKTLARDLGMAVVVTNHITRDRDSGRLKPALGRSWSFVPSTRILLDTIEGAGASGGRRMACLAKSSRQPTGFQEMVDIGTWGTSEQSATLQGDQT |
| 4017 | sp|Q9ULC3|RAB23\_HUMAN | MLEEDMEVAIKMVVVGNGAVGKSSMIQRYCKGIFTKDYKKTIGVDFLERQIQVNDEDVRLMLWDTAGQEEFDAITKAYYRGAQACVLVFSTTDRESFEAVSSWREKVVAEVGDIPTVLVQNKIDLLDDSCIKNEEAEALAKRLKLRFYRTSVKEDLNVNEVFKYLAEKYLQKLKQQIAEDPELTHSSSNKIGVFNTSGGSHSGQNSGTLNGGDVINLRPNKQRTKKNRNPFSSCSIP |
| 4018 | sp|P0C6F6|R1A\_BC512 | MASNHISLAFANDEEISAIGFGSVEEAVSYYSDAAVNGFDQCRFVSLGLQDAVVGVEDDDVVMLITGVTQLRAYLGTFGDRPLNLRGWLLFSNCNYFLEELDLVFGRCGGTTIPVDQFMCGADGAPVIQEGDWTFMDYFQDSNQFTLNGITYVKAWDVDRKPNDYAKQNVTCIRRITYITDHRHVLADGTTMKTARHPKVNKSVVLDSPFDQIYKEVGSPFMGNGSTFVEMLKDPAFFHALITCECGRSEWTVGDWKGYNSLCCNIKCKPITIVTPKAVPGAVVITKAGIGAGLKCYNNVFLKHIIDLVVPGTNLGWGVWRIAKVQSKDDVATSGNVLVDDPEDRLDPCYFGNDGPFATKFKFQLLANSFDDEVKGAIVQGVVHVNTAICDVVKDILGLPWFVKKLGSLVTVMWDQFVAGVQSMKICTLKVVQLAKALSCATMSVVKGVITLVAEVPEIFKRLFYTLTSALKSLCTSSCDALVVAGKSFAKIGDYVLLPSALVRLVSSKVKGKAQSGIKQLQFATVVLGDTHKVESDRVEFSSVNLKMVDEEFPLNPVGHTVAVGNQAFFCSDGLYRFMADRDLVITSPIFKPELELEPIFECDAIPGFPKVAASNVAELCVKVDTLLFNYDKIYKKYSTIIKGDRCYIQCTHTFKAPSYYFDDDEFVELCTKYYKLPDFDAFYNAVHAATDMDQFCALCTSGFEVFIPRVPDCPPILNDIDGGSIWTSFILSVRSATDFIKTLKIDLGLNGVVVFVTKKFRKAGALLQKLYNAFLDTVTSFIKVAGVAFKYCATCVPKIVINGCYHTVTRLFAKDLQIPTEDGVADFNTFNHCVFPVNPTRIETDSLELEEVDFVEPGVDGKLVILDDYSFYSDGTNYYPSDGKGVVASCFKKKGGGVVTISDEVQVRTIDPVYKVRLEYEFEDETLVKVCEKAIGTKLKVTGDWSNLLETLEKAMDVVRQHLDVPDYFVYDEEGGTDLNLTIMVSQWPLSSDSEDDFKAVDDEPNANTDETVDTFAEDVAETQNVQQDVTQDEVEAVCDLVVKATEEGPIEHEELSEDQKEVQQALAFIEDKPVVVKPDVFAFSYASYGGLKVLNQSSNNCWVSSALVQLQLTGLLDSDEMQLFNAGRVSPMVKRCYESQRAIFGSLGDVSACLESLLKDRDGMSITCTIDCGCGPGVRVYENAIFRFTPLKTAFPMGRCLICSKTLMHTITQMKGTGIFCRDATALDVDTLVVKPLCAAVYVGAQDGGHYLTNMYDANMAVDGHGRHPIKFNTINTLCYKDVDWEVSNGSCDVKPFLTYKNIEFYQGELSALLSVNHDFVVNAANEQLSHGGGIAKALDDLTKGELQVLSNQYVSRNGSIKVGSGVLIKCKEHSILNVVGPRKGKHAAELLTKAYTFVFKQKGVPLMPLLSVGIFKVPITESLAAFLACVGDRVCKCFCYTDKERLAIQNFVTSFQTEQPVEPLPVIQEVKGVQLEKPVPDVKVENPCEPFRIEGDAKFYDLTPSMVQSLQVTRLVSFTNSDLCLGSFVRDCDGYVQGSLGGAIANYKKSNPVLPAGNCVTLKCDGFISFTFVILPKEGDTNYEKNFNRAIAKFLKLKGSLLVVVEDSSVFNKISHASVAGYVAKPALVDTLFEAKPVQVVVTQDQRSFHTVELSTSQTYGQQLGDCVVEDKKVTNLKPVSKDKVVSVVPNVDWDKHYGFVDAGIFHTLDHTMFVFDNNVVNGKRVLRTSDNNCWINAVCLQLQFANAKFKPKGLQQLWESYCTGDVAMFVHWLYWITGVEKGEPSDAENTLNIISRFLKPQGSVEMLRATSTTCDGTCSTKRVVSTPVVNASVLKVGLDDGNCVHGLPLVDRVVSVNGTVIITNVGDTPGKPVVATENLLLDGVSYTVFQDSTTGVGHYTVFDKEAKLMFDGDVLKPCDLNVSPVTSVVVCNNKKIVVQDPVKRVELDASKFLDTMNVASEKFFTFGDFVSRNIIVLIVYLFSLLAICFRALKKRDMKVMAGVPERTGIILKRSVKYNYKALKFFFRLKFQYIKVFLKFSLVLYTLYALMFMFIRFTPVGTPICKRYTDGYANSTFDKNDYCGNVLCKICLYGYEELSDFTHTRVIWQHLKDPLIGNILPLFYLVFLIIFGGFFVRIGITYFIMQYINAAGVALGYQDNVWLLHLLPFNSMGNIIVVAFIVTRILLFLKHVLFGCDKPSCIACSKSAKLTRVPLQTILQGVTKSFYVNANGGKKFCKKHNFFCVDCDSYGYGCTFINDVIAPELSNVTKLNVIPTGPATIIIDKVEFSNGFYYLYSGSTFWKYNFDITEAKYACKDVLKNCNILTDFVVFNNSGSNVTQVKNACVYFSQLLCKPIKLVDSALLASLNVDFSANLHKAFVEVLSNSFGKDLSNCSNMNECRESLGLSDVPEEEFSAAVSEAHRYDVLISDVSFNNLIVSYAKPEEKLAVHDIANCMRVGAKVVNHNVLTKDNVPVVWLAKDFIALSEEARKYIVRTTKTKGINFMLTFNDRRMHLTIPTISVANKKGAGLPSLFTRLYSFFWHLCVLIVVLFVATSLLDFSAQVTSDTQYDFKYIENGVLKVFEKPLDCVHNAFVNFNEWHNAKFGSIPTNSRRCPIVVGTSDEVRYIPGVPAGVFLYGKSLIFAMSTIFGTSGLCFDDRGLTDPDSCIFNSACTTLSGIGGRNVYCYREGVVDNAKLYSSLLPHSYYRLMDGNHIVLPEIITRGFGIRTIKTQAMTYCRTGECIDSQAGVCVGLDRFFVYSKTPGSDYVCGTGFFSLLFNVIGMFSNSIPVTVMSGQILLNCVVAFTAVMACFAFTKFKRLFGDMSFGVLSVGLCTVVNNLSYVVTQNSIGMLAYATLYFLCTKGVRYSWVWHVGFAISYCFLAPWWVVLAYLICALLEFLPNLFKLKVSTQLFEGDKFVGSFESAASGTFVLDMHSYQKLANSISTEKLKQYCASYNRYKYYSGSASEADYRLACFAHLAKAMSDFANDHMDKLYTPPTVSYNSTLQAGLRKMAQPSGIVEGCIVRVSYGNLTLNGLWLGDTVICPRHVIASNTTNVIDYDHAMSLVRLHNFSISSGNMFLGVISASMRGTLLHIKVNQSNVNTPNYTYKVLKPGDSFNILACYDGSAAGVYGVNMRTNYTIRGSFISGACGSPGYNINNGVVEFCYMHHLELGSGCHVGSDMDGTMYGKYEDQPTLQIEGASNLVTENVCSWLYGALINGDRWWLSSVSVGVDTYNEWALRNGMTALKNVDCFSLLVAKTGVDVGRLLASIQKLHGNFGGKSILGCTSLCDEFTLSEVVKQMYGVTLQSGKVSRAFRNASIVCCLLFLFLSEMLNHSKLFWINPGYITPVFLAIIVASSALMLLVKHKLLFLQLYLLPSLCIVSGYNIFKDYHFYTYMLEEFDYKVPFGGFNVTGVLNISLCCFVMGLHTFRFLQTPNKIFSYVVAVLTVLYTYYYSTDVLGLILTSMSGFTNYWFIGTATYKLATYVLPHTSLLDSFDAIKAVVFLYLLLGYCNCVYYGSLYWINRFCKLTLGCYEFKVSAAEFKYMVANGLRAPTGVFDALILSLKLIGVGGRKTIKISSVQSKLTDLKCTNVVLLGCLSNMNIAANSREWAYCVDLHNKINLCNDAEAAQEMLLALLAFFLSKNSAFGVDELLDSYFNDSSVLQSVAATYVNLPSYLAYETARQSYEDALANGSPPQLVKQLRHAMNVAKSEFDREASTQRKLDRMAEQAASQMYKEARAVNRKSKVVSAMHSLLFGMLRRLDMSSVDTILSLAKDGVVPLSIIPAVSATKLNIVVSDIESYSKIQREGCVHYAGVIWSVVDIKDNDGKPVHAKEVVTSNVESLAWPLFLNCERIIKLQNNEIIPSKIKQRPIKAEGEGVVADGNALYSNEGGRTFMYAFISDKPDLKVVKWEFDGGSNAIELEPPCKFLVEAPSGPVVKYLYFVRNLNNLRRGAVLGFIGATVRLQAGKQTEQATNSSLLTLCAFAVDPPKTYLDAVKSGHRPVGNCVKMLANGSGNGQAITNGVEASTNQDSYGGASVCLYCRAHVEHPDMDGFCKLRGKYVQVPLGTLDPIRFVLENTVCKVCGCWQANGCTCDRAVIQSVDSGYLNECGALVQLD |
| 4019 | sp|Q23862|RACE\_DICDI | MSEDQGSGATRVKLVVVGDGAVGKTCLLICYAQNDFPVDYVPTVFENYTATRKRGNEDIKVHLWDTAGQEEYDRLRPLSYPGADVVLLCFSTISQSSYEAIRDKWAPEVNHYIPDVPSILVGTKIDLREQQHPDPNSGKFEPITADMGISMQKQIKAKKYLEVSAKTRQGLEEVFSAAIEIVLESRGMDKKSQDGSSSASGVPSGDKPTKGKAGKKKSGCIIL |
| 4020 | sp|P0C6F8|R1A\_BCHK3 | MESLVLGVNEKTHVQLSLPVLQVRDVLVRGFGDSVEEALSEAREHLKNGTCGLVELEKGVLPQLEQPYVFIKRSDALSTNHGHKVVELVAELDGIQFGRSGITLGVLVPHVGETPIAYRNVLLRKNGNKGAGGHSFGIDLKSYDLGDELGTDPIEDYEQNWNTKHGSGALRELTRELNGGVVTRYVDNNFCGPDGYPLECIKDFLARAGKSMCTLSEQLDYIESKRGVYCCREHEHEIVWFTERSEKSYEHQTPFEIKSAKKFDTFKGECPKFVFPLNSKVKVIQPRVEKKKTEGFMGRIRSVYPVATPQECNDMHLSTLMKCNHCDEVSWQTCDFLKATCEQCGTENLVCEGPTTCGYLPTNAVVKMPCPACQDPEVGPEHSVADYHNHSNIETRLRKGGRTKCFGGCVFSYVGCYNKRAYWVPRASANIGANHTGITGENVETLNEDLLEILNRERVNINIVGDFRFNEEVAIILASFSASPSAFIETVKGLDYKSFKVIVESCGNYKVTNGKPVTGAWNIGQQRSILTPLCGFPSQAAGVIRSIFSRTLDAANHSILDLQRAAVTTLDGISEQSLRLVDAMVYTSDLLTNSVVVMAYVTGGLVQQTMQWLSNMLGTAVDKLKPVFTWVEAKLSAGVEFLRDAWEILKFLITGVFDVIKGQIQVATDNIKECVKIFLGVVNKALEMCLDQVTIAGTKLRALNLGEVFIAQSRGLYRQCIRGKEQLQLLMPLKAPKEVTFLEGDAHDTVLTSEEVVLKSGELEALETPIDSFTSGAVVGTPVCINGLMLLELENKEQYCALSPGLLATNNVFRLKGGAPVKGVTFGEDTVLEVQGYKNVKITFELDVRVDKVLNEKCSVYTVESGTEVTEFACVVAEAVVKTLQPVSDLLTPMGIDLDEWSVATFYLFDDAGEEKLSSRMYCSFYPPDEEEDCEECEDEEETCEHEYGTEDDYKGLPLEFGASTETPHVEEEEEEEDWLDDAIEAEPEPEPLPEEPVNQFVGYLKLTDNVAIKCIDIVKEAQSAKPTVIVNAANTHLKHGGGVAGALNKATNGAMQNESDEYIRQNGPLTVGGSCLLSGHNLAEKCLHVVGPNLNAGEDVQLLKRAYENFNSQDVLLAPLLSAGIFGAKPLQSLKMCVEIVRTQVYLAVNDKSLYDQIVLDYLDSLKPKVESPNKEEEPKLEEPKAVQPVAEKPVDVKPKIKACIDEVTTTLEETKFLTNKLLLFADINGKLYQDSQNMLRGEDMSFLEKDAPYIVGDVITSGDITCVIIPAKKSGGTTEMLARALKEVPVAEYITTYPGQGCAGYTLEEAKTALKKCKSAFYVLPSETPNEKEEVLGTVSWNLREMLAHAEETRKLMPICLDVRAIMATIQRKYKGIKVQEGIVDYGVRFFFYTSKEPVASIITKLNSLNEPLVTMPIGYVTHGLNLEEAARCMRSLKAPAVVSVSSPDAVTAYNGYLTSSSKTPEEYFVETTSLAGSYRDWSYSGQRTELGVEFLKRGDKIVYHTTGSPIEFHLDGEVLPLDKLKSLLSLREVKTIKVFTTVDNTNLHTHIVDMSMTYGQQFGPTYLDGADVTKIKPHVNHEGKTFFVLPSDDTLRSEAFEYYHTIDESFLGRYMSALNHTKKWKFPQVGGLTSIKWADNNCYLSSVLLALQQVEVKFNAPALQEAYYRARAGDAANFCALILAYSNKTVGELGDVRETMTHLLQHANLESAKRVLNVVCKHCGQKTTTLKGVEAVMYMGTLSYDELKTGVSIPCVCGRNATQYLVQQESSFVMMSAPPAEYKLQQGAFLCANEYTGNYQCGHYTHITAKETLYRVDGAHLTKMSEYKGPVTDVFYKETSYTTAIKPVSYKLDGVTYTEIEPKLDGYYKKGNAYYTEQPIDLVPTQPMPNASFDNFKLTCSNTKFADDLNQMTGFKKPASRELTVTFFPDLNGDVVAIDYRHYSTSFKKGAKLVHKPILWHINQTTNKTTYKPNIWCLRCLWSTKPVDTSNSFEVLVVEDTQGMDNLACESQTTTSEEVVENPTVQKEIIECDVKTTEVVGNVILKPSEEGVKVTQELGHEDLMAAYVEETSITIKKPNELSLALGLKTLATHGAAAINSVPWSKILAYVKPFLGQTAVITSNCIKKCVQRVFSNYMPYVITLLFQLCTFTKSTNSRIKASLPTTIAKNSVKSVAKLCLDVCINYVKSPKFSKLFTIVMWLLLLSICLGSLTYVTAVLGVCLSSLGVPSYCDGVRELYINSSNVTTMDFCQGYFPCSVCLSGLDSLDSYPALETIQVTISSYKLDLTFLGLAAEWLLAYMLFTKFFYLLGLSAIMQAFFGYFASHFISNSWLMWFIISIVQMAPVSAMVRMYIFFASFYYVWKSYVHIMDGCTSSTCMMCYKRNRATRVECTTIVNGVKRSFYVYANGGRGFCKAHNWNCLNCDTFCAGSTFISDEVARDLSLQFKRPINPTDQSAYVVDSVTVKNGALHLYFDKAGQKTYERHPLSHFVNLDNLRANNTKGSLPINVIVFDGKSKCEESAAKSASVYYSQLMCQPILLLDQALVSDVGDSTEVSVKMFDAYVDTFSATFSVPMEKLKALVATAHSELAKGVALDGVLSTFVSAARQGVVDTDVDTKDVIECLKLSHHSDIEVTGDSCNNFMLTYNKVENMTPRDLGACIDCNARHINAQVAKSHNVSLVWNVKDYMSLSEQLRKQIRSAAKKNNIPFRLTCATTRQVVNVITTKISLKGGKVVSTWFKLLLKVTLLCVLAALFCYVIMPVHSLSVHDGYTNEIIGYKAIQDGVTRDIVSTDDCFANKHAGFDSWFSQRGGSYRNDKNCPVVAAIITREIGFIVPGLPGTVLRALNGDFLHFLPRVFSAVGNICYTPSKLIEYSDFATSACVLAAECTIFKDAMGKPVPYCYDTNLLEGSISYSELRPDTRYVLMDGSIIQFPNTYLEGSVRVVTTFDAEYCRHGTCERSEVGVCLSTSGRWVLNNEHYRALPGVFCGVDAMNLIANIFTPLVQPVGALDVSASVVAGGIIAILVTCAAYYFMKFRRAFGEYNHVVAANALLFLMSFTILCLAPAYSFLPGVYSIFYLYLTFYFTNDVSFLAHLQWFAMFSPIVPFWITAIYVFCISLKHFHWFFSNYLKKRVMFNGVTFSTFEEAALCTFLLNKEMYLRLRSETLLPLTQYNRYLALYNKYKYFSGALDTTSYREAACCHLAKALNDFSNSGADVLYQPPQTSITSAVLQSGFRKMAFPSGKVEGCMVQVTCGTTTLNGLWLDDTVYCPRHVVCTAEDMLNPNYDDLLIRKSNHSFLVQAGNVQLRVIGHSMQNCLLRLKVDTSNPKTPKYKFVRIQPGQTFSVLACYNGSPSGVYQCAMRPNHTIKGSFLNGSCGSVGFNIDYDCVSFCYMHHMELPTGVHAGTDLEGKFYGPFVDRQTAQAAGTDTTITLNVLAWLYAAVINGDRWFLNRFTTTLNDFNLVAMKYNYEPLTQDHVDILGPLSAQTGIAVLDMCAALKELLQNGMNGRTILGSTILEDEFTPFDVVRQCSGVTFQGKFKKIVKGTHHWMLLTFLTSLLILVQSTQWSLFFFVYENAFLPFALGIMAVAACAMLLVKHKHAFLCLFLLPSLATVAYFNMVYMPASWVMRIMTWLELADTSLSGYRLKDCVMYASALVLLILMTARTVYDDAARRVWTLMNVITLVYKVYYGNSLDQAISMWALVISVTSNYSGVVTTIMFLARAIVFVCVEYYPLLFITGNTLQCIMLVYCFLGYCCCCYFGLFCLLNRYFRLTLGVYDYLVSTQEFRYMNSQGLLPPKSSIDAFKLNIKLLGIGGKPCIKVATVQSKMSDVKCTSVVLLSVLQQLRVESSSKLWAQCVQLHNDILLAKDTTEAFEKMVSLLSVLLSMQGAVDINKLCEEMLDNRATLQAIASEFSSLPSYAAYATAQEAYEQAVSNGDSEVVLKKLKKSLNVAKSEFDHDAAMQRKLEKMADQAMTQMYKQARSEDKRAKVTSAMQTMLFTMLRKLDNDALNNIINNARDGCVPLNIIPLTTAAKLMVVVPDYGTYKNTCDGNTFTYASALWEIQQVVDADSKIVQLSEINMDNSPNLAWPLIVTALRANSAVKLQNNELSPVALRQMSCAAGTTQTACTDDNALAYYNNAKGGRFVLALLSDHQDLKWARFPKSDGTGTIYTELEPPCRFVTDTPKGPKVKYLYFIKGLNNLNRGMVLGSLAATVRLQAGNATEVPANSTVLSFCAFAVDPAKAYKDYLASGGQPITNCVKMLCTHTGTGQAITVTPEANMDQESFGGASCCLYCRCHIDHPNPKGFCDLKGKYVQIPTTCANDPVGFTLRNTVCTVCGMWKGYGCSCDQLREPMMQSADASTFLNGFAV |
| 4021 | sp|Q5R5U1|RAB10\_PONAB | MAKKTYDLLFKLLLIGDSGVGKTCVLFRFSDDAFNTTFISTIGIDFKIKTVELQGKKIKLQIWDTAGQERFHTITTSYYRGAMGIMLVYDITNGKSFENISKWLRNIDEHANEDVERMLLGNKCDMDDKRVVPKGKGEQIAREHGIRFFETSAKANINIEKAFLTLAEDILRKTPVKEPNSENVDISSGGGVTGWKSKCC |
| 4022 | sp|Q9CQD1|RAB5A\_MOUSE | MANRGATRPNGPNTGNKICQFKLVLLGESAVGKSSLVLRFVKGQFHEFQESTIGAAFLTQTVCLDDTTVKFEIWDTAGQERYHSLAPMYYRGAQAAIVVYDITNEESFARAKNWVKELQRQASPNIVIALSGNKADLANKRAVDFQEAQSYADDNSLLFMETSAKTSMNVNEIFMAIAKKLPKNEPQNPGANSARGRGVDLTEPAQPARSQCCSN |
| 4023 | sp|Q8TBN0|R3GEF\_HUMAN | MWSGPPQPDQGLPPPLAAVPVPWKSTDPCQGHRESPGALVETSAGEEAQGQEGPAAAQLDVLRLRSSSMEIREKGSEFLKEELHRAQKELKLKDEECERLSKVREQLEQELEELTASLFEEAHKMVREANMKQAASEKQLKEARGKIDMLQAEVTALKTLVITSTPASPNRELHPQLLSPTKAGPRKGHSRHKSTSSTLCPAVCPAAGHTLTPDREGKEVDTILFAEFQAWRESPTLDKTCPFLERVYREDVGPCLDFTMQELSVLVRAAVEDNTLTIEPVASQTLPTVKVAEVDCSSTNTCALSGLTRTCRHRIRLGDSKSHYYISPSSRARITAVCNFFTYIRYIQQGLVRQDAEPMFWEIMRLRKEMSLAKLGFFPQEA |
| 4024 | sp|P63012|RAB3A\_RAT | MASATDSRYGQKESSDQNFDYMFKILIIGNSSVGKTSFLFRYADDSFTPAFVSTVGIDFKVKTIYRNDKRIKLQIWDTAGQERYRTITTAYYRGAMGFILMYDITNEESFNAVQDWSTQIKTYSWDNAQVLLVGNKCDMEDERVVSSERGRQLADHLGFEFFEASAKDNINVKQTFERLVDVICEKMSESLDTADPAVTGAKQGPQLTDQQAPPHQDCAC |
| 4025 | sp|A0A0H3KB22|QUEE\_BURM1 | MTYAVKEIFYTLQGEGANAGRPAVFCRFAGCNLWSGREEDRAQAVCRFCDTDFVGTDGENGGKFKDADALVATIAGLWPAGEAHRFVVCTGGEPMLQLDQPLVDALHAAGFGIAIETNGSLPVLESIDWICVSPKADAPLVVTKGNELKVVIPQDNQRLADYAKLDFEYFLVQPMDGPSRDLNTKLAIDWCKRHPQWRLSMQTHKYLNIP |
| 4026 | sp|Q9JM62|REEP6\_MOUSE | MDGLRQRFERFLEQKNVATEALGALEARTGVEKRYLAAGALALLGLYLLFGYGASLLCNVIGFVYPAYASVKAIESPSKEDDTVWLTYWVVYALFGLVEFFSDLLLFWFPFYYAGKCAFLLFCMTPGPWNGALLLYHRVIRPLFLKHHMALDSAASQLSGRALDLAAGITRDVLQALARGRALVTPASTSEPPAALELDPK |
| 4027 | sp|Q9H6L5|RETR1\_HUMAN | MASPAPPEHAEEGCPAPAAEEQAPPSPPPPQASPAERQQQEEEAQEAGAAEGAGLQVEEAAGRAAAAVTWLLGEPVLWLGCRADELLSWKRPLRSLLGFVAANLLFWFLALTPWRVYHLISVMILGRVIMQIIKDMVLSRTRGAQLWRSLSESWEVINSKPDERPRLSHCIAESWMNFSIFLQEMSLFKQQSPGKFCLLVCSVCTFFTILGSYIPGVILSYLLLLCAFLCPLFKCNDIGQKIYSKIKSVLLKLDFGIGEYINQKKRERSEADKEKSHKDDSELDFSALCPKISLTVAAKELSVSDTDVSEVSWTDNGTFNLSEGYTPQTDTSDDLDRPSEEVFSRDLSDFPSLENGMGTNDEDELSLGLPTELKRKKEQLDSGHRPSKETQSAAGLTLPLNSDQTFHLMSNLAGDVITAAVTAAIKDQLEGVQQALSQAAPIPEEDTDTEEGDDFELLDQSELDQIESELGLTQDQEAEAQQNKKSSGFLSNLLGGH |
| 4028 | sp|P00797|RENI\_HUMAN | MDGWRRMPRWGLLLLLWGSCTFGLPTDTTTFKRIFLKRMPSIRESLKERGVDMARLGPEWSQPMKRLTLGNTTSSVILTNYMDTQYYGEIGIGTPPQTFKVVFDTGSSNVWVPSSKCSRLYTACVYHKLFDASDSSSYKHNGTELTLRYSTGTVSGFLSQDIITVGGITVTQMFGEVTEMPALPFMLAEFDGVVGMGFIEQAIGRVTPIFDNIISQGVLKEDVFSFYYNRDSENSQSLGGQIVLGGSDPQHYEGNFHYINLIKTGVWQIQMKGVSVGSSTLLCEDGCLALVDTGASYISGSTSSIEKLMEALGAKKRLFDYVVKCNEGPTLPDISFHLGGKEYTLTSADYVFQESYSSKKLCTLAIHAMDIPPPTGPTWALGATFIRKFYTEFDRRNNRIGFALAR |
| 4029 | sp|Q9VHG4|RENR\_DROME | MLRVFVIFSLFIAAINASGEFTVLNRPKAISFKGNDALESHYVGDVLYASMGNAVSGDTNWNGLTINDPFNLAKGVILVHVQGIGHVTTAGNVKTYELTGSGTDASLNALAAELEAANEPVCDINFEQFDDGVQAWKSCFGDFEAPAAKPTKHLNPSLHTADKQFLQEVGFINSAADHLAEMAKPSNVLMLRVSVDGVAKAHGEKSVAVEEANKLLSAAISRLLAASQKSSDSVLFVQTTEKDVAASRAKRDTIAASTTNPYNLAVYYGSDYPVIFNIILWFMVVFGLSLLAICYAIAAMDPGRDSIIYRMTSTRIKKDN |
| 4030 | sp|P25800|RBTN1\_HUMAN | MMVLDKEDGVPMLSVQPKGKQKGCAGCNRKIKDRYLLKALDKYWHEDCLKCACCDCRLGEVGSTLYTKANLILCRRDYLRLFGTTGNCAACSKLIPAFEMVMRARDNVYHLDCFACQLCNQRFCVGDKFFLKNNMILCQMDYEEGQLNGTFESQVQ |
| 4031 | sp|P13631|RARG\_HUMAN | MATNKERLFAAGALGPGSGYPGAGFPFAFPGALRGSPPFEMLSPSFRGLGQPDLPKEMASLSVETQSTSSEEMVPSSPSPPPPPRVYKPCFVCNDKSSGYHYGVSSCEGCKGFFRRSIQKNMVYTCHRDKNCIINKVTRNRCQYCRLQKCFEVGMSKEAVRNDRNKKKKEVKEEGSPDSYELSPQLEELITKVSKAHQETFPSLCQLGKYTTNSSADHRVQLDLGLWDKFSELATKCIIKIVEFAKRLPGFTGLSIADQITLLKAACLDILMLRICTRYTPEQDTMTFSDGLTLNRTQMHNAGFGPLTDLVFAFAGQLLPLEMDDTETGLLSAICLICGDRMDLEEPEKVDKLQEPLLEALRLYARRRRPSQPYMFPRMLMKITDLRGISTKGAERAITLKMEIPGPMPPLIREMLENPEMFEDDSSQPGPHPNASSEDEVPGGQGKGGLKSPA |
| 4032 | sp|P62836|RAP1A\_RAT | MREYKLVVLGSGGVGKSALTVQFVQGIFVEKYDPTIEDSYRKQVEVDCQQCMLEILDTAGTEQFTAMRDLYMKNGQGFALVYSITAQSTFNDLQDLREQILRVKDTEDVPMILVGNKCDLEDERVVGKEQGQNLARQWCNCAFLESSAKSKINVNEIFYDLVRQINRKTPVEKKKPKKKSCLLL |
| 4033 | sp|O14807|RASM\_HUMAN | MATSAVPSDNLPTYKLVVVGDGGVGKSALTIQFFQKIFVPDYDPTIEDSYLKHTEIDNQWAILDVLDTAGQEEFSAMREQYMRTGDGFLIVYSVTDKASFEHVDRFHQLILRVKDRESFPMILVANKVDLMHLRKITREQGKEMATKHNIPYIETSAKDPPLNVDKAFHDLVRVIRQQIPEKSQKKKKKTKWRGDRATGTHKLQCVIL |
| 4034 | sp|Q8IFM5|RH5\_PLAF7 | MIRIKKKLILTIIYIHLFILNRLSFENAIKKTKNQENNLTLLPIKSTEEEKDDIKNGKDIKKEIDNDKENIKTNNAKDHSTYIKSYLNTNVNDGLKYLFIPSHNSFIKKYSVFNQINDGMLLNEKNDVKNNEDYKNVDYKNVNFLQYHFKELSNYNIANSIDILQEKEGHLDFVIIPHYTFLDYYKHLSYNSIYHKSSTYGKCIAVDAFIKKINETYDKVKSKCNDIKNDLIATIKKLEHPYDINNKNDDSYRYDISEEIDDKSEETDDETEEVEDSIQDTDSNHTPSNKKKNDLMNRTFKKMMDEYNTKKKKLIKCIKNHENDFNKICMDMKNYGTNLFEQLSCYNNNFCNTNGIRYHYDEYIHKLILSVKSKNLNKDLSDMTNILQQSELLLTNLNKKMGSYIYIDTIKFIHKEMKHIFNRIEYHTKIINDKTKIIQDKIKLNIWRTFQKDELLKRILDMSNEYSLFITSDHLRQMLYNTFYSKEKHLNNIFHHLIYVLQMKFNDVPIKMEYFQTYKKNKPLTQ |
| 4035 | sp|P27671|RGRF1\_MOUSE | MQKAIRLNDGHVVTLGLLAQKDGTRKGYLSKRSADNPKWQTKWFALLQNLLFYFESDSSPRPSGLYLLEGSICKRAPSPKRGTSSKESGEKQQHYFTVNFSNDSQKTLELRTEDAKDCDEWVAAIARASYKILATEHEALMQKYLHLLQVVETEKTVAKQLRQQLEDGEVEIERLKTEVTITNLIKDNDRIQSSNKAGSADDEDSDIKKIKKVQSFLRGWLCRRKWKNIIQDYIRSPHADSMRKRNQVVFSMLEAEAEYVQQLHILVNNFLRPLRMAASSKKPPITHDDVSSIFLNSETIMFLHQIFYQGLKARISSWPTLVLADLFDILLPMLNIYQEFVRNHQYSLQILAHCKQNRDFDKLLKQYEAKPDCEERTLETFLTYPMFQIPRYILTLHELLAHTPHEHVERNSLDYAKSKLEELSRIMHDEVSETENIRKNLAIERMITEGCEILLDTSQTFVRQGSLMQMSLSEKSKSSRGRLGSLSTKKEGERQCFLFSKHLIICTRGSGGKLHLTKNGVISLIDCTLLDEPENLDDEAKGAGPEIEHLEFKIGVEPKDSLPFTVILVASTRQEKAAWTSDIIQCVDNIRCNGLMMNAFEENSKVTVPQMIKSDASLYCDDVDIRFSKTMNSCKVLQIRYASVERLLERLTDLRFLSIDFLNTFLHSYRVFTNAMVVLDKLINIYRKPMSAIPARSLELLFSSSHNAKLLYGDAPKSPRASRKFSSPPPLAIGTSSPSRRRKLSLNIPIITGGKALELASLGCSSDSYANIHSPISPFGKTTLDTGKLCMASSLPKTPEEIDVPATIPEKPGELSASRKHSSDVLKEESEDDQNHSDEDNTEVSPVKSPPTPKSFLNRTITEFPFFNYNNGILMTTCRDLVDNNRSTLSATSAFAIATAGANEGPSNKEVFRRMSLANTGFSSDQRNIDKEFVIRRAATNRVLNVLRHWVTKHTQDFDTDDTLKYRVICFLEEVMHDPDLLTQERKAAANIIRTLTLEETTEQHSMLEEVILMTEGVKTEPFENHPALEIAEQLTLLDHLVFKSIPYEEFFGQGWMKAEKYERTPYIMKTTKHFNHVSNFIASEIIRNEDISARASAIEKWVAVADICRCLHNYNAVLEITSSINRSAIFRLKKTWLKVSKQTKSLLDKLQKLVSSDGRFKNLRESLRNCDPPCVPYLGMYLTDLVFIEEGTPNYTEDGLVNFSKMRMISHIIREIRQFQQTTYKIDPQPKVIQYLLDESFMLDEESLYESSLLIEPKLPT |
| 4036 | sp|Q5HZJ0|RNC\_MOUSE | MQGNTCHRMSYHPGRGCPRGRGGHGARPSAPAFRPQNLRLLHPQQPPAQYQYEPPSAPSSSYSNSQAPSFMPPRPDFVPYPPPAAPSAQGPLPPCPVRPPYPNHQMRHPFPVPPCFPPMPPPMPCPNNPPASGAPPGQGTFPFMVPPPSMPHPPPPPVMPQQVNYQYPPGYSHSFPPPGFNSYQNNSSSFPPSANSSSTPHFRHLPPYSLPKAQNERRSPERLKHYDDHRHRDHSHGRGERHRSLERRERGRSPERRRPESRYRSDYDRGRTPPPRHRSYERSRERDRERHRHREARRSPSLERSYKKEYKRSGRSYALPVAPEPAGCTPELPGEMIKTTESWAPPPENVNHRSPSREKKRARWEEEKDRWSDSQGSGKEKNYTSIKEKEAEEVPPEKTEEEEEELLKPVWIRCTHSESYYSSDPMDQVGDSTVVGTSRLRDLYDKFEEELGNRQEKAKAARPPWEPPKTKLDEDLESSSESECETDDDSTCSSSSDSEVFDVIAEIKRKKAHPDRLHDELWYNDPGQMNDGPLCKCSAKARRTGIRHSIYPGEEAIKPCRPMTNNAGRLFHYRITVSPPTNFLTDRPTVIEYDDHEYIFEGFSMFAHAPLTNIPLCKVIRFNIDYTIHFIEEMMPENFCVKGLELFSLFLFRDILELYDWNLKGPLFEDSPPCCPRFHFMPRFVRFLPDGGKEVLSMHQILLYLLRCSKALVPEEEIANMLQWEELEWQKYAEECKGMIVTNPGTKPSSVRIDQLDREQFNPEVITFPIIVHFGIRPAQLSYAGDPQYQKLWKSYVKLRHLLANSPKVKQTDKQKLAQREEALQKIRQKNTMRREVTVELSSQGFWKTGIRSDVCQHAMMLPVLTHHIRYHQCLMHLDKLIGYTFQDRCLLQLAMTHPSHHLNFGMNPDHARNSLSNCGIRQPKYGDRKVHHMHMRKKGINTLINIMSRLGQDDPTPSRINHNERLEFLGDAVVEFLTSVHLYYLFPSLEEGGLATYRTAIVQNQHLAMLAKKLELDRFMLYAHGPDLCRESDLRHAMANCFEALIGAVYLEGSLEEAKQLFGRLLFNDPDLREVWLNYPLHPLQLQEPNTDRQLIETSPVLQKLTEFEEAIGVIFTHVRLLARAFTLRTVGFNHLTLGHNQRMEFLGDSIMQLVATEYLFIHFPDHHEGHLTLLRSSLVNNRTQAKVAEELGMQEYAITNDKTKRPVALRTKTLADLLESFIAALYIDKDLEYVHTFMNVCFFPRLKEFILNQDWNDPKSQLQQCCLTLRTEGKEPDIPLYKTLQTVGPSHARTYTVAVYFKGERIGCGKGPSIQQAEMGAAMDALEKYNFPQMAHQKRFIERKYRQELKEMRWEREHQEREPEEAEDIKK |
| 4037 | sp|Q0IIM1|RN168\_BOVIN | MAVPKESIPSLLECQCQICVEILFEPVTLPCNHTLCKPCFESTVEKASLCCPFCRRRVSSWARYRSRTNSLVNMELWEIIQKHYPKECKLRASGQESKEIVDDYQPVRLLSKPGELRREYEEEISKVEAERRACEEEENKASEEYIQKLLAEEEEEEKRQAEKRHREMEEQLKSDEELARRLSLDINNFCEGSVLASPLNSRKSDPVTTKSQKKSKNKQTNTGDIQKYLSPKSQLGSASQSEVVQEDRKSSMSKKIDDNSDVKSPTWQDTEVEEDMPTLSPQIYLEVQEQGAKSSVESPMPQLYTSDGEWYLEGKVETGPSNHEKGLCVINLEEPKARVPYSGDAATEPCGETESECTVSYMTQFLRNNTVGTENEESHLQISKGTSKRRNLEPLSEAIREPCFSAKRRKMFPKASSDQEETEISLTQKLIDLEHLLFERHKQEKQDRLLALQLQEEVDQEQMRPDRQKGSPDGYQLRTVSSPPDKVLNGQRKNSRDRNSKRQTELEQPKPRTDSKNENHQQPSFKIQLKCSVNRRKIANSTNDNCNVSKTAHSLQPSKSQKSIFQMFQRVTK |
| 4038 | sp|Q8IYW5|RN168\_HUMAN | MALPKDAIPSLSECQCGICMEILVEPVTLPCNHTLCKPCFQSTVEKASLCCPFCRRRVSSWTRYHTRRNSLVNVELWTIIQKHYPRECKLRASGQESEEVADDYQPVRLLSKPGELRREYEEEISKVAAERRASEEEENKASEEYIQRLLAEEEEEEKRQAEKRRRAMEEQLKSDEELARKLSIDINNFCEGSISASPLNSRKSDPVTPKSEKKSKNKQRNTGDIQKYLTPKSQFGSASHSEAVQEVRKDSVSKDIDSSDRKSPTGQDTEIEDMPTLSPQISLGVGEQGADSSIESPMPWLCACGAEWYHEGNVKTRPSNHGKELCVLSHERPKTRVPYSKETAVMPCGRTESGCAPTSGVTQTNGNNTGETENEESCLLISKEISKRKNQESSFEAVKDPCFSAKRRKVSPESSPDQEETEINFTQKLIDLEHLLFERHKQEEQDRLLALQLQKEVDKEQMVPNRQKGSPDEYHLRATSSPPDKVLNGQRKNPKDGNFKRQTHTKHPTPERGSRDKNRQVSLKMQLKQSVNRRKMPNSTRDHCKVSKSAHSLQPSISQKSVFQMFQRCTK |
| 4039 | sp|P0A7K2|RL7\_ECOLI | MSITKDQIIEAVAAMSVMDVVELISAMEEKFGVSAAAAVAVAAGPVEAAEEKTEFDVILKAAGANKVAVIKAVRGATGLGLKEAKDLVESAPAALKEGVSKDDAEALKKALEEAGAEVEVK |
| 4040 | sp|Q9Z1C7|RPGF4\_RAT | RVIRLVLQWAAMYGDLLQEDDVAMAFLEEFYVSVSDDARMMVAFKEQLAELEKTVKQISEDAKAPQKKHKVLLQQFNTGDERAQKRQPIRGSDEVLFKVYCIDHTDTTIRVPVAASVKEVISAVADKLGSGEGLIIVKMNSGGEKVVLKPNDVSVFTTLTINGRLFACPREQFDSLTPLPEQEGPTTGTVGTFELMSSKDLAYQMTTYDWELFNCVLELELIYHTFGRHNFKKTTANLDLFLRRFNEIQFWVVTEICLCSQLSKRVQLLKKCIKIAAHCKEYKNLNSFFGIVMGLSNVAESRLALTWEKLPSKFKKFYAEFESLMDPSRNHKAYRLTAAKLEPPLIPFMPLLIKDMTFTHEGNKTFIDNLVNFEKMRMIANTARTVRYYRSQPFNPDAAQANKNHQDVRSYVRQLNVIDNQRTLSQMSHRLEPRRP |
| 4041 | sp|P53942|RNH2A\_YEAST | MVPPTVEASLESPYTKSYFSPVPSALLEQNDSPIIMGIDEAGRGPVLGPMVYAVAYSTQKYQDETIIPNYEFDDSKKLTDPIRRMLFSKIYQDNEELTQIGYATTCITPLDISRGMSKFPPTRNYNLNEQAHDVTMALIDGVIKQNVKLSHVYVDTVGPPASYQKKLEQRFPGVKFTVAKKADSLYCMVSVASVVAKVTRDILVESLKRDPDEILGSGYPSDPKTVAWLKRNQTSLMGWPANMVRFSWQTCQTLLDDASKNSIPIKWEEQYMDSRKNAAQKTKQLQLQMVAKPVRRKRLRTLDNWYR |
| 4042 | sp|Q9R0X5|RPGR\_MOUSE | MAESESLVPDTGAVFTFGKTKFAENIPSKFWFKNDIPICLSCGDEHTAIVTGNNKLYMFGSNNWGQLGLGSKAAIIKPTCIKALKPEKVKLAACGRNHTLVSTDTGGVYAAGGNNEGQLGLGDTDDRDTFHQIVFFTPADTIKQLSAGANTSAALTEDGKLFMWGDNSEGQIGLEDKSNVCIPHEVTVGKPISWISCGYYHSAFVTMDGELYTFGEPENGKLGLPNELLMNHRSPQRVLGIPERVIQVACGGGHTVVLTEKVVYAFGLGQFGQLGLGTFLFETSEPKIIERIKDQKICHISCGENHTALMTELGLLYTFGDGRHGKLGLGMENFTNQFFPTLCSNFLRFAVQLIACGGCHMLVFATPRLGTIDEPKFEDVYEPYISTGSFSINDLSPRSSLNRSLSARLRRRERERPPCSASMVGTLPPLEGTSASTSAYFYPSSPPFHLSVNNYPEKSPSESMEPLDSDYFEDKMNKDTETENSSAVDSENFGETNDILNMTHMMTTSSNEKLLDFSPIQKQQNQDTFEKVMESTPCTENEDSYEYEEMSKIKEVTVYKQYLAKGIYMIRPAEILEAFSDEEVGNGLDQVEEPRVFTDGKGLQSKQVGKESDEEIVSEKKTEVMEVADVKKIRESEENSKSDSLFDDLPDKTMNSESEDNKDIAEERRSSEQNMTFDSETELVEEPDSYMECERHSEQDSAEELEQPKLVEYSSEEKDEKDEKDDDEVETENLWYDRNCTEQETENVFRATRFFPKFDLKHDHLSGIPEEQEGPEDSEGNVVVEQVVQAQKENLEFEGDRKEAKAEAPSDVITEKEAPQLSETVKPEEGEMDEEISILNVEDTVEEERKEGEKEIVEEGSIPETEGSETIDITDEKLDEVLKEEDSASLLQRALREYNENPKGHMYDRVKSSSSEILGGNDPTSKDIKKAKKISFFNRMSLTGQKLMQNTNDPLPEIKPIGDQIALQSDKKDANQNHMGQNLQDSTTPNMEGKSKSCTIL |
| 4043 | sp|Q63644|ROCK1\_RAT | MSTGDSFETRFEKIDNLLRDPKSEVNSDCLLDGLDALVYDLDFPALRKNKNIDNFLSRYKDTINKIRDLRMKAEDYEVVKVIGRGAFGEVQLVRHKSTRKVYAMKLLSKFEMIKRSDSAFFWEERDIMAFANSPWVVQLFYAFQDDRYLYMVMEYMPGGDLVNLMSNYDVPEKWARFYTAEVVLALDAIHSMGFIHRDVKPDNMLLDKSGHLKLADFGTCMKMNKEGMVRCDTAVGTPDYISPEVLKSQGGDGYYGRECDWWSVGVFLYEMLVGDTPFYADSLVGTYSKIMNHKNSLTFPDDNDISKEAKNLICAFLTDREVRLGRNGVEEIKRHLFFKNDQWAWETLRDTVAPVVPDLSSDIDTSNFDDLEEDKGDEETFPIPKAFVGNQLPFVGFTYYSNRRYLPSANPSENRSSSNVDKNVQESLQKTIYKLEEQLHNEMQLKDEMEQKCRTSNIKLDKIMKELDEEGNQRRNLESAVSQIEKEKMLLQHRINEYQRKVEQENEKRRNVENEVSTLKDQLEDLRKASQSSQLANEKLTQLQKQLEEANDLLRTESDTAVRLRKSHTEMSKSVSQLESLNRELQERNRMLENSKSQADKDYYQLQAVLEAERRDRGHDSEMIGDLQARITSLQEEVKHLKHNLERVEGERKEAQDMLNHSEKEKNNLEIDLNYKLKSIQQRLEQEVNEHKVTKARLTDKHQSIEEAKSVAMCEMEKKLKEEREAREKAENRVVETEKQCSMLDVDLKQSQQKLEHLTENKERLEDAVKSLTLQLEQESNKRILLQSELKTQAFEADNLKGLEKQMKQEINTLLEAKRLLEFELAQLTKQYRGNEGQMRELQDQLEAEQYFSTLYKTQVKELKEEIEEKNRENLRKIQELQSEKETLSTQLDLAETKAESEQLARGILEEQYFELTQESKKAASRNRQEITDKDHTVSRLEEANNALTKDIELLRKENEELNERMRTAEEEYKLKKEEEISNLKAAFEKNISTERTLKTQAVNKLAEIMNRKDFKIDRKKANTQDLRKKEKENRKLQLELNQEREKFNQMVVKHQKELNDMQAQLVEECTHRNELQMQLASKESDIEQLRAKLLDLSDSTSVASFPSADETDGNLPVGSACIPYLFIFYSSSSRIEGWLSVPNRGNIKRYGWKKQYVVVSSKKMLFYNDEQDKEQSSPSMVLDIDKLFHVRPVTQGDVYRAETEEIPKIFQILYANEGECRKDIEVEPVQQGEKTNFQNHKGHEFIPTLYHFPANCEACAKPLWHVFKPPPALECRRCHVKSHRDHLDKKEDLIPPCKVSYDVTSARDMLLLACPQDEQKKWVTHLVKKIPKKAPSGFVRASPRTLSTRSTANQSFRKVVKNTSGKTS |
| 4044 | sp|P25359|RRP43\_YEAST | MAESTTLETIEIHPITFPPEVLARISPELSLQRHLSLGIRPCLRKYEEFRDVAIENNTLSRYADAGNIDTKNNILGSNVLKSGKTIVITSITGGIIEETSAAIKDLDDFGEEELFEVTKEEDIIANYASVYPVVEVERGRVGACTDEEMTISQKLHDSILHSRILPKKALKVKAGVRSANEDGTFSVLYPDELEDDTLNETNLKMKRKWSYVLYAKIVVLSRTGPVFDLCWNSLMYALQSVKLPRAFIDERASDLRMTIRTRGRSATIRETYEIICDQTKSVPLMINAKNIAFASNYGIVELDPECQLQNSDNSEEEEVDIDMDKLNTVLIADLDTEAEETSIHSTISILAAPSGNYKQLTLVGGGAKITPEMIKRSLLLSRVRADDLSTRFNI |
| 4045 | sp|Q96E11|RRFM\_HUMAN | MALGLKCFRMVHPTFRNYLAASIRPVSEVTLKTVHERQHGHRQYMAYSAVPVRHFATKKAKAKGKGQSQTRVNINAALVEDIINLEEVNEEMKSVIEALKDNFNKTLNIRTSPGSLDKIAVVTADGKLALNQISQISMKSPQLILVNMASFPECTAAAIKAIRESGMNLNPEVEGTLIRVPIPQVTREHREMLVKLAKQNTNKAKDSLRKVRTNSMNKLKKSKDTVSEDTIRLIEKQISQMADDTVAELDRHLAVKTKELLG |
| 4046 | sp|P56715|RP1\_HUMAN | MSDTPSTGFSIIHPTSSEGQVPPPRHLSLTHPVVAKRISFYKSGDPQFGGVRVVVNPRSFKSFDALLDNLSRKVPLPFGVRNISTPRGRHSITRLEELEDGESYLCSHGRKVQPVDLDKARRRPRPWLSSRAISAHSPPHPVAVAAPGMPRPPRSLVVFRNGDPKTRRAVLLSRRVTQSFEAFLQHLTEVMQRPVVKLYATDGRRVPSLQAVILSSGAVVAAGREPFKPGNYDIQKYLLPARLPGISQRVYPKGNAKSESRKISTHMSSSSRSQIYSVSSEKTHNNDCYLDYSFVPEKYLALEKNDSQNLPIYPSEDDIEKSIIFNQDGTMTVEMKVRFRIKEEETIKWTTTVSKTGPSNNDEKSEMSFPGRTESRSSGLKLAACSFSADVSPMERSSNQEGSLAEEINIQMTDQVAETCSSASWENATVDTDIIQGTQDQAKHRFYRPPTPGLRRVRQKKSVIGSVTLVSETEVQEKMIGQFSYSEERESGENKSEYHMFTHSCSKMSSVSNKPVLVQINNNDQMEESSLERKKENSLLKSSAISAGVIEITSQKMLEMSHNNGLPSTISNNSIVEEDVVDCVVLDNKTGIKNFKTYGNTNDRFSPISADATHFSSNNSGTDKNISEAPASEASSTVTARIDRLINEFAQCGLTKLPKNEKKILSSVASKKKKKSRQQAINSRYQDGQLATKGILNKNERINTKGRITKEMIVQDSDSPLKGGILCEEDLQKSDTVIESNTFCSKSNLNSTISKNFHRNKLNTTQNSKVQGLLTKRKSRSLNKISLGAPKKREIGQRDKVFPHNESKYCKSTFENKSLFHVFNILEQKPKDFYAPQSQAEVASGYLRGMAKKSLVSKVTDSHITLKSQKKRKGDKVKASAILSKQHATTRANSLASLKKPDFPEAIAHHSIQNYIQSWLQNINPYPTLKPIKSAPVCRNETSVVNCSNNSFSGNDPHTNSGKISNFVMESNKHITKIAGLTGDNLCKEGDKSFIANDTGEEDLHETQVGSLNDAYLVPLHEHCTLSQSAINDHNTKSHIAAEKSGPEKKLVYQEINLARKRQSVEAAIQVDPIEEETPKDLLPVLMLHQLQASVPGIHKTQNGVVQMPGSLAGVPFHSAICNSSTNLLLAWLLVLNLKGSMNSFCQVDAHKATNKSSETLALLEILKHIAITEEADDLKAAVANLVESTTSHFGLSEKEQDMVPIDLSANCSTVNIQSVPKCSENERTQGISSLDGGCSASEACAPEVCVLEVTCSPCEMCTVNKAYSPKETCNPSDTFFPSDGYGVDQTSMNKACFLGEVCSLTDTVFSDKACAQKENHTYEGACPIDETYVPVNVCNTIDFLNSKENTYTDNLDSTEELERGDDIQKDLNILTDPEYKNGFNTLVSHQNVSNLSSCGLCLSEKEAELDKKHSSLDDFENCSLRKFQDENAYTSFDMEEPRTSEEPGSITNSMTSSERNISELESFEELENHDTDIFNTVVNGGEQATEELIQEEVEASKTLELIDISSKNIMEEKRMNGIIYEIISKRLATPPSLDFCYDSKQNSEKETNEGETKMVKMMVKTMETGSYSESSPDLKKCIKSPVTSDWSDYRPDSDSEQPYKTSSDDPNDSGELTQEKEYNIGFVKRAIEKLYGKADIIKPSFFPGSTRKSQVCPYNSVEFQCSRKASLYDSEGQSFGSSEQVSSSSSMLQEFQEERQDKCDVSAVRDNYCRGDIVEPGTKQNDDSRILTDIEEGVLIDKGKWLLKENHLLRMSSENPGMCGNADTTSVDTLLDNNSSEVPYSHFGNLAPGPTMDELSSSELEELTQPLELKCNYFNMPHGSDSEPFHEDLLDVRNETCAKERIANHHTEEKGSHQSERVCTSVTHSFISAGNKVYPVSDDAIKNQPLPGSNMIHGTLQEADSLDKLYALCGQHCPILTVIIQPMNEEDRGFAYRKESDIENFLGFYLWMKIHPYLLQTDKNVFREENNKASMRQNLIDNAIGDIFDQFYFSNTFDLMGKRRKQKRINFLGLEEEGNLKKFQPDLKERFCMNFLHTSLLVVGNVDSNTQDLSGQTNEIFKAVDENNNLLNNRFQGSRTNLNQVVRENINCHYFFEMLGQACLLDICQVETSLNISNRNILELCMFEGENLFIWEEEDILNLTDLESSREQEDL |
| 4047 | sp|P49242|RS3A\_RAT | MAVGKNKRLTKGGKKGAKKKVVDPFSKKDWYDVKAPAMFNIRNIGKTLVTRTQGTKIASDGLKGRVFEVSLADLQNDEVAFRKFKLITEDVQGKNCLTNFHGMDLTRDKMCSMVKKWQTMIEAHVDVKTTDGYLLRLFCVGFTKKRNNQIRKTSYAQHQQVRQIRKKMMEIMTREVQTNDLKEVVNKLIPDSIGKDIEKACQSIYPLHDVFVRKVKMLKKPKFELGKLMELHGEGGSSGKTTGDETGAKVERADGYEPPVQESV |
| 4048 | sp|Q8CDR2|RSH6A\_MOUSE | MGEPPPNPDPSQTRRASQGSERARSQEYSQPLLTIPEDGLNRPPPQRGSRSSQGSQDLQGTGLPHWPQRSSLVPDVQGDEGTEYHQSMPLGYTPGFPMEFSQQGYLDDSRMMEQFPQGQDLLEQLESTYQGSASGILGQLNLYPREDEIFSQDTQHGPYLRDDPSLHLRPSDLGFMPIVGEVPDPEPRELAIQNAKAYLLRTSMSCNLSLYEHLVNLLTKILNQRPEDPLSILESLNRTMQWEWFHPKLDTLRDDPEMQPTYEMAEKQKALFIRGGGEGEQEMEEEVTDSPVPNIMETAFYFEQAGVGLSSDESFRIFLALKQLVEQQPIHMCRFWGKILGLSRSYLVAEVEFREGEEEGEEEEVEEMMEGGEVLETHGEEEGEEDEEKVVDSVPKPQWKPPPIIPKEESRSGTNKYLYFVCNEPGRPWTRLPHVTPAQIVCARKIKKFFTGFLDTPVISYPPFPGNEANYLRAQIARISAATHISPLGFYQFGEEEGDEEEEGGAGRDSFEENPDFEGIPVLELVDSMANWVHHTQHILPQGRCTWVNPLQKTEEEEELGEEEEKADEAMEEVEQEVGPPLLTPLSEDAEIMHLSPWTTRLSCSLSPQYSVAIVRSNLWPGAYAYATGKKFENIYIGWGHKYSPENFNPMLPALIQQEYPSGPEITEMSDPTVEEEQALKAAQEQALAAAEEEEEDEEEEEDEDLED |
| 4049 | sp|P82979|SARNP\_HUMAN | MATETVELHKLKLAELKQECLARGLETKGIKQDLIHRLQAYLEEHAEEEANEEDVLGDETEEEETKPIELPVKEEEPPEKTVDVAAEKKVVKITSEIPQTERMQKRAERFNVPVSLESKKAARAARFGISSVPTKGLSSDNKPMVNLDKLKERAQRFGLNVSSISRKSEDDEKLKKRKERFGIVTSSAGTGTTEDTEAKKRKRAERFGIA |
| 4050 | sp|P26447|S10A4\_HUMAN | MACPLEKALDVMVSTFHKYSGKEGDKFKLNKSELKELLTRELPSFLGKRTDEAAFQKLMSNLDSNRDNEVDFQEYCVFLSCIAMMCNEFFEGFPDKQPRKK |
| 4051 | sp|Q9NRA2|S17A5\_HUMAN | MRSPVRDLARNDGEESTDRTPLLPGAPRAEAAPVCCSARYNLAILAFFGFFIVYALRVNLSVALVDMVDSNTTLEDNRTSKACPEHSAPIKVHHNQTGKKYQWDAETQGWILGSFFYGYIITQIPGGYVASKIGGKMLLGFGILGTAVLTLFTPIAADLGVGPLIVLRALEGLGEGVTFPAMHAMWSSWAPPLERSKLLSISYAGAQLGTVISLPLSGIICYYMNWTYVFYFFGTIGIFWFLLWIWLVSDTPQKHKRISHYEKEYILSSLRNQLSSQKSVPWVPILKSLPLWAIVVAHFSYNWTFYTLLTLLPTYMKEILRFNVQENGFLSSLPYLGSWLCMILSGQAADNLRAKWNFSTLCVRRIFSLIGMIGPAVFLVAAGFIGCDYSLAVAFLTISTTLGGFCSSGFSINHLDIAPSYAGILLGITNTFATIPGMVGPVIAKSLTPDNTVGEWQTVFYIAAAINVFGAIFFTLFAKGEVQNWALNDHHGHRH |
| 4052 | sp|F4JUU5|S2P\_ARATH | MEISGRRMRRFRMRFRRDHLTGGENIENEASCCYCDLKISNFNEPIFRLGRRFSGVLKVWFSIGLGFGVASLILVTVFLLLQFHSNPLFSNRLTSAVFGFSPSTRVSLSGIAYVLVSTVITVSVHELGHALAAASEGIQMEYIAVFIAAIFPGGLVAFDNDVLQSLPSFNALRIYCAGIWHNAVFCALCVFALFLLPVMLSPFYKHGESLTVVDVPSVSPLFGYLSPGDVIVSLDGIQVHKPSEWLELAAILDKENSKTSNGSLYLGGSRRFHHGKGYCVPISLIEEGYKGKMVENQFVCPGDLTAFRTMPCSNAAIREVSVCLDAKDIVKLQKCGDGWVTTSDTDNQSDCVCPQGDLCLQAMQSPGVLWTEITYKRTSSQDCSRLGLDFNTSNCLGTFVFVGDLIAMSHSVHLTAYQPRWLFNFFGKSFPNILERSLTCTFHVSLALVLLNSLPVYYLDGESILESSLQSFTWLSPRKKKKALQVCLVGGSLLSFLAFFRIFLLGLPLSRRW |
| 4053 | sp|Q9JM15|S38A1\_RAT | MMHFKSGLELTELQNMTVPEDDNVSNDSNDFTEVENGQINSKFISDRESRRSLTNSHLEKRKCDEYIPGTTSLGMSVFNLSNAIMGSGILGLAFALANTGILLFLILLTSVTLLSIYSINLLLICSKETGCMVYEKLGEQVFGTTGKLVIFGATSLQNTGAMLSYLFIVKNELPSAIKSLMGEEETFSAWYVDGRVLVVMVTFGIILPLCLLKNLGYLGYTSGFSLSCMVFFLIVVIYKKFQIPCMNGEQNSTVSANVTDACTPKYVTFNSKTVYALPTIAFAFVCHPSVLPIYSELKDRSQKKMQMVSNISFFAMFVMYFLTAIFGYLTFYEKVQSDLLHKYQSTGDILILTVRLAVIVAVILTVPVLFFTVRSSLFELAKKTKFHLCRHVLVTIILLVIINLLVIFIPSMKDIFGVVGVTSANMLIFILPSSLYLKITNQDGDKNTQRIWAALFLALGVLFSLISIPLVIYDWACSSSNGEGH |
| 4054 | sp|Q9I8K8|S1PR2\_DANRE | MTTCRLFAGFCQAVTMSKYSQYFNKTLIQVHYLTAKEMTAEELRDRIESKQSLSSLNILFVVICSIIILENLLVLIAVFRNKKFHSAMFFFIGNLAFSDLLAGSAYIANIFLSGPRTFHLTPVQWFIREGTAFIALSASVFSLLAIAIERYIAITKVKVYGSNKTCRMFLLIGACWVMSILLGGLPIIGWNCINNLDDCSAVLPLNTRYYIRFVVTIFSIILLSIVILYVRIYLIVRTSHQEATNSPAYALLKTVTIVLGVFIICWLPAFTILLLDTSCKMKQCPILNNAGIFFSFATLNSALNPLIYTLRSKDMRKEFLRVLCCWGLLNCGRPPHRCMVPLKSSSSMEHCTNKHEHQSIPIMQDCTTCV |
| 4055 | sp|Q9JHE5|S38A2\_RAT | MKKTEMGRFNISPDEDSSSYSSNGDFNYSYPTKQAALKSHYVDVDPENQNFLLESNLGKKKYETDFHPGTTSFGMSVFNLSNAIVGSGILGLSYAMANTGIALFIILLTFVSIFSLYSVHLLLKTANEGGSLLYEQLGHKAYGLAGKLAASGSITMQNIGAMSSYLFIVKYELPLVIKALMNIEDTNGLWYLNGDYLVLLVSFVLILPLSLLRNLGYLGYTSGLSLLCMIFFLIVVICKKFQIPCPVEVALMANETVNGTFTQVALAALASNSTAADTCRPRYFIFNSQTVYAVPILTFSFVCHPAVLPIYEELKSRSRRRMMNVSKISFFAMFLMYLLAALFGYLTFYEHVESELLHTYSAIVGTDILLLVVRLAVLVAVTLTVPVVIFPIRSSVTHLLCPTKEFSWFRHSVITVTILAFTNLLVIFVPTIRDIFGFIGASAAAMLIFILPSAFYIKLVKKEPMRSVQKIGALCFLLSGVVVMIGSMGLIVLDWVHDASAGGH |
| 4056 | sp|P0DTC2|SPIKE\_SARS2 | MFVFLVLLPLVSSQCVNLTTRTQLPPAYTNSFTRGVYYPDKVFRSSVLHSTQDLFLPFFSNVTWFHAIHVSGTNGTKRFDNPVLPFNDGVYFASTEKSNIIRGWIFGTTLDSKTQSLLIVNNATNVVIKVCEFQFCNDPFLGVYYHKNNKSWMESEFRVYSSANNCTFEYVSQPFLMDLEGKQGNFKNLREFVFKNIDGYFKIYSKHTPINLVRDLPQGFSALEPLVDLPIGINITRFQTLLALHRSYLTPGDSSSGWTAGAAAYYVGYLQPRTFLLKYNENGTITDAVDCALDPLSETKCTLKSFTVEKGIYQTSNFRVQPTESIVRFPNITNLCPFGEVFNATRFASVYAWNRKRISNCVADYSVLYNSASFSTFKCYGVSPTKLNDLCFTNVYADSFVIRGDEVRQIAPGQTGKIADYNYKLPDDFTGCVIAWNSNNLDSKVGGNYNYLYRLFRKSNLKPFERDISTEIYQAGSTPCNGVEGFNCYFPLQSYGFQPTNGVGYQPYRVVVLSFELLHAPATVCGPKKSTNLVKNKCVNFNFNGLTGTGVLTESNKKFLPFQQFGRDIADTTDAVRDPQTLEILDITPCSFGGVSVITPGTNTSNQVAVLYQDVNCTEVPVAIHADQLTPTWRVYSTGSNVFQTRAGCLIGAEHVNNSYECDIPIGAGICASYQTQTNSPRRARSVASQSIIAYTMSLGAENSVAYSNNSIAIPTNFTISVTTEILPVSMTKTSVDCTMYICGDSTECSNLLLQYGSFCTQLNRALTGIAVEQDKNTQEVFAQVKQIYKTPPIKDFGGFNFSQILPDPSKPSKRSFIEDLLFNKVTLADAGFIKQYGDCLGDIAARDLICAQKFNGLTVLPPLLTDEMIAQYTSALLAGTITSGWTFGAGAALQIPFAMQMAYRFNGIGVTQNVLYENQKLIANQFNSAIGKIQDSLSSTASALGKLQDVVNQNAQALNTLVKQLSSNFGAISSVLNDILSRLDKVEAEVQIDRLITGRLQSLQTYVTQQLIRAAEIRASANLAATKMSECVLGQSKRVDFCGKGYHLMSFPQSAPHGVVFLHVTYVPAQEKNFTTAPAICHDGKAHFPREGVFVSNGTHWFVTQRNFYEPQIITTDNTFVSGNCDVVIGIVNNTVYDPLQPELDSFKEELDKYFKNHTSPDVDLGDISGINASVVNIQKEIDRLNEVAKNLNESLIDLQELGKYEQYIKWPWYIWLGFIAGLIAIVMVTIMLCCMTSCCSCLKGCCSCGSCCKFDEDDSEPVLKGVKLHYT |
| 4057 | sp|P06880|SOMA\_MOUSE | MATDSRTSWLLTVSLLCLLWPQEASAFPAMPLSSLFSNAVLRAQHLHQLAADTYKEFERAYIPEGQRYSIQNAQAAFCFSETIPAPTGKEEAQQRTDMELLRFSLLLIQSWLGPVQFLSRIFTNSLMFGTSDRVYEKLKDLEEGIQALMQELEDGSPRVGQILKQTYDKFDANMRSDDALLKNYGLLSCFKKDLHKAETYLRVMKCRRFVESSCAF |
| 4058 | sp|G5EEG7|SMU1\_CAEEL | MSSIEIESSDVIRLIEQFLKESNLHRTLAILQEETNVSLNTVDSIDGFCNEITSGNWDNVLKTVQSLKLPAKKLIDLYEHVIIELVELRELATARLVARQTDPMILLKQIDPDRFARLESLINRPYFDGQEVYGDVSKEKRRSVIAQTLSSEVHVVAPSRLLSLLGQSLKWQLHQGLLPPGTAIDLFRGKAAQKEQIEERYPTMMARSIKFSTKSYPESAVFSPDANYLVSGSKDGFIEVWNYMNGKLRKDLKYQAQDNLMMMDAAVRCISFSRDSEMLATGSIDGKIKVWKVETGDCLRRFDRAHTKGVCAVRFSKDNSHILSGGNDHVVRVHGMKSGKCLKEMRGHSSYITDVRYSDEGNHIISCSTDGSIRVWHGKSGECLSTFRVGSEDYPILNVIPIPKSDPPQMIVCNRSNTLYVVNISGQVVRTMTSGKREKGDFINCILSPKGEWAYAIAEDGVMYCFMVLSGTLETTLPVTERLPIGLAHHPHQNLIASYAEDGLLKLWTD |
| 4059 | sp|O95295|SNAPN\_HUMAN | MAGAGSAAVSGAGTPVAGPTGRDLFAEGLLEFLRPAVQQLDSHVHAVRESQVELREQIDNLATELCRINEDQKVALDLDPYVKKLLNARRRVVLVNNILQNAQERLRRLNHSVAKETARRRAMLDSGIYPPGSPGK |
| 4060 | sp|Q8IX90|SKA3\_HUMAN | MDPIRSFCGKLRSLASTLDCETARLQRALDGEESDFEDYPMRILYDLHSEVQTLKDDVNILLDKARLENQEGIDFIKATKVLMEKNSMDIMKIREYFQKYGYSPRVKKNSVHEQEAINSDPELSNCENFQKTDVKDDLSDPPVASSCISEKSPRSPQLSDFGLERYIVSQVLPNPPQAVNNYKEEPVIVTPPTKQSLVKVLKTPKCALKMDDFECVTPKLEHFGISEYTMCLNEDYTMGLKNARNNKSEEAIDTESRLNDNVFATPSPIIQQLEKSDAEYTNSPLVPTFCTPGLKIPSTKNSIALVSTNYPLSKTNSSSNDLEVEDRTSLVLNSDTCFENLTDPSSPTISSYENLLRTPTPPEVTKIPEDILQLLSKYNSNLATPIAIKAVPPSKRFLKHGQNIRDVSNKEN |
| 4061 | sp|P48763|SL9A2\_RAT | MGPSGTAHRMRAPLSWLLLLLLSLQVAVPAGALAETLLDAPGARGASSNPPSPASVVAPGTTPFEESRLPVFTLDYPHVQIPFEITLWILLASLAKIGFHLYHKLPTIVPESCLLIMVGLLLGGIIFGVDEKSPPAMKTDVFFLYLLPPIVLDAGYFMPTRPFFENLGTIFWYAVVGTLWNSIGIGLSLFGICQIEAFGLSDITLLQNLLFGSLISAVDPVAVLAVFENIHVNEQLYILVFGESLLNDAVTVVLYNLFKSFCQMKTIQTVDVFAGIANFFVVGIGGVLIGILLGFIAAFTTRFTHNIRVIEPLFVFLYSYLSYITAEMFHLSGIMAITACAMTMNKYVEENVSQKSYTTIKYFMKMLSSVSETLIFIFMGVSTVGKNHEWNWAFVCFTLAFCLIWRALGVFVLTQVINWFRTIPLTFKDQFIIAYGGLRGAICFALVFLLPATVFPRKKLFITAAIVVIFFTVFILGITIRPLVEFLDVKRSNKKQQAVSEEIHCRFFDHVKTGIEDVCGHWGHNFWRDKFKKFDDKYLRKLLIRENQPKSSIVSLYKKLEIKHAIEMAETGMISTVPSFASLNDCREEKIRKLTPGEMDEIREILSRNLYQIRQRTLSYNRHNLTADTSERQAKEILIRRRHSLRESLRKDNSLNRERRASTSTSRYLSLPKNTKLPEKLQKKNKVSNADGNSSDSDMDGTTVLNLQPRARRFLPDQFSKKASPAYKMEWKNEVDVGSARAPPSVTPAPRSKEGGTQTPGVLRQPLLSKDQRFGRGREDSLTEDVPPKPPPRLVRRASEPGNRKGRLGNEKP |
| 4062 | sp|Q8R4L0|SLAP2\_MOUSE | MGSLSSRGKTSSPSPSSSGPDQEPVSMQPERHKVTAVALGSFPAGEQARLSLRLGEPLTIISEDGDWWTVQSEVSGREYHMPSVYVAKVAHGWLYEGLSREKAEELLLLPGNPGGAFLIRESQTRRGCYSLSVRLSRPASWDRIRHYRIQRLDNGWLYISPRLTFPSLHALVEHYSELADGICCPLREPCVLQKLGPLPGKDTPPPVTVPTSSLNWKKLDRSLLFLEAPASGEASLLSEGLRESLSSYISLAEDPLDDA |
| 4063 | sp|Q8BGQ7|SYAC\_MOUSE | MDATLTAREIRERFINFFRRNEHTYVHSSATIPLDDPTLLFANAGMNQFKPIFLNTIDPSHPMAKLSRAANTQKCIRAGGKHNDLDDVGKDVYHHTFFEMLGSWSFGDYFKELACKMALELLTQEFGIPVERLYVTYFGGDEAAGLEPDLECRQIWQNLGLDEARILPGNMKDNFWEMGDTGPCGPCSEIHYDRIGGRDAAHLVNQDDPNVLEIWNLVFIQYNRESDGVLKPLPKKSIDTGMGLERLVSVLQNKMSNYDTDLFMPYFEAIQKGTGARPYTGKVGAEDADGIDMAYRVLADHARTITVALADGGRPDNTGRGYVLRRILRRAVRYSHEKLNASRGFFATLVDVVVQSLGDAFPELKKDPEMVKDIINEEEVQFLKTLSRGRRILDRKIQSLGDCKTIPGDTAWLLYDTYGFPVDLTGLIAEEKGLVVDMNGFEEERRLAQLKSQGKGAGDEDLIMLDIYAIEELRAKGLEATDDSPKYNYQSDSSGSYVFECTVATVLALRREKMFVDEVVTGQECGVVLDKTCFYAEQGGQIYDEGYLVKVDDSSEDKTEFTVKNAQVRGGYVLHIGTIYGNLKVGDQVRLFIDEPRRRPVMSNHTATHILNFALRSVLGEADQKGSLVAPDRLRFDFTAKGAMSTQQIKKAEEIVNGMIEAAKPVYTQDCPLAAAKAIQGLRAVFDETYPDPVRVVSIGVPVSELLDDPCGPAGSLTSVEFCGGTHLRNSSHAGAFVIVTEEAIAKGIRRIVAVTGAEAQKALRKSETLKKSLSAMEAKVKAQTAPNKDVQREIADLGEALATAVIPQWQKDEQRETLKSLKKVMDDLDRASKADVQKRVLEKTKQLIDSNPNQPLVILEMESGASAKALNEALKLFKTHSPQTSAMLFTVDNEAGKITCLCQVPQNAANRGLKASEWVQQVSGLMDGKGGGKDMSAQATGKNVGCLQEALQLATSFAQLRLGDVKN |
| 4064 | sp|P84103|SRSF3\_HUMAN | MHRDSCPLDCKVYVGNLGNNGNKTELERAFGYYGPLRSVWVARNPPGFAFVEFEDPRDAADAVRELDGRTLCGCRVRVELSNGEKRSRNRGPPPSWGRRPRDDYRRRSPPPRRRSPRRRSFSRSRSRSLSRDRRRERSLSRERNHKPSRSFSRSRSRSRSNERK |
| 4065 | sp|Q8K400|STXB5\_MOUSE | MRKFNIRKVLDGLTAGSSSASQQQQQQQHPPGNREPEIQETLQSEHFQLCKTVRHGFPYQPSALAFDPVQKILAVGTQTGALRLFGRPGVECYCQHDSGAAVIQLQFLINEGALVSALADDTLHLWNLRQKRPAVLHSLKFCRERVTFCHLPFQSKWLYVGTERGNIHIVNVESFTLSGYVIMWNKAIELSSKAHPGPVVHISDNPMDEGKLLIGFESGTVVLWDLKSKKADYRYTYDEAIHSVAWHHEGKQFICSHSDGTLTIWNVRSPAKPVQTITPHGKQLKDGKKPEPCKPILKVELKTTRSGEPFIILSGGLSYDTVGRRPCLTVMHGKSTAVLEMDYSIVDFLTLCETPYPNDFQEPYAVVVLLEKDLVLIDLAQNGYPIFENPYPLSIHESPVTCCEYFADCPVDLIPALYSVGARQKRQGYSKKEWPINGGNWGLGAQSYPEIIITGHADGSVKFWDASAITLQVLYKLKTSKVFEKSRNKDDRQNTDIVDEDPYAIQIISWCPESRMLCIAGVSAHVIIYRFSKQEVLTEVIPMLEVRLLYEINDVDTPEGEQPPPLSTPVGSSNPQPIPPQSHPSTSSSSSDGLRDNVPCLKVKNSPLKQSPGYQTELVIQLVWVGGEPPQQITSLALNSSYGLVVFGNCNGIAMVDYLQKAVLLNLSTIELYGSNDPYRREPRSPRKSRQPSGAGLCDITEGTVVPEDRCKSPTSGSSSPHNSDDEQKVNNFIEKVKTQSRKFSKMVANDLAKMSRKLSLPTDLKPDLDVKDNSFSRSRSSSVTSIDKESRETISALHFCETLTRKADSSPSPCLWVGTTVGTAFVITLNLPPGPEQRLLQPVIVSPSGTILRLKGAILRMAFLDATGCLMSPAYEPWKEHNVAEEKDEKEKLKKRRPVSVSPSSSQEISENQYAVICSEKQAKVMSLPTQSCAYKQNITETSFVLRGDIVALSNSVCLACFCANGHIMTFSLPSLRPLLDVYYLPLTNMRIARTFCFANNGQALYLVSPTEIQRLTYSQETCENLQEMLGELFTPVETPEAPNRGFFKGLFGGGAQSLDREELFGESSSGKASRSLAQHIPGPGGIEGVKGAASGVVGELARARLALDERGQKLSDLEERTAAMMSSADSFSKHAHEMMLKYKDKKWYQF |
| 4066 | sp|Q13188|STK3\_HUMAN | MEQPPAPKSKLKKLSEDSLTKQPEEVFDVLEKLGEGSYGSVFKAIHKESGQVVAIKQVPVESDLQEIIKEISIMQQCDSPYVVKYYGSYFKNTDLWIVMEYCGAGSVSDIIRLRNKTLIEDEIATILKSTLKGLEYLHFMRKIHRDIKAGNILLNTEGHAKLADFGVAGQLTDTMAKRNTVIGTPFWMAPEVIQEIGYNCVADIWSLGITSIEMAEGKPPYADIHPMRAIFMIPTNPPPTFRKPELWSDDFTDFVKKCLVKNPEQRATATQLLQHPFIKNAKPVSILRDLITEAMEIKAKRHEEQQRELEEEEENSDEDELDSHTMVKTSVESVGTMRATSTMSEGAQTMIEHNSTMLESDLGTMVINSEDEEEEDGTMKRNATSPQVQRPSFMDYFDKQDFKNKSHENCNQNMHEPFPMSKNVFPDNWKVPQDGDFDFLKNLSLEELQMRLKALDPMMEREIEELRQRYTAKRQPILDAMDAKKRRQQNF |
| 4067 | sp|Q8N2I9|STK40\_HUMAN | MKRRASDRGAGETSARAKALGSGISGNNAKRAGPFILGPRLGNSPVPSIVQCLARKDGTDDFYQLKILTLEERGDQGIESQEERQGKMLLHTEYSLLSLLHTQDGVVHHHGLFQDRTCEIVEDTESSRMVKKMKKRICLVLDCLCAHDFSDKTADLINLQHYVIKEKRLSERETVVIFYDVVRVVEALHQKNIVHRDLKLGNMVLNKRTHRITITNFCLGKHLVSEGDLLKDQRGSPAYISPDVLSGRPYRGKPSDMWALGVVLFTMLYGQFPFYDSIPQELFRKIKAAEYTIPEDGRVSENTVCLIRKLLVLDPQQRLAAADVLEALSAIIASWQSLSSLSGPLQVVPDIDDQMSNADSSQEAKVTEECSQYEFENYMRQQLLLAEEKSSIHDARSWVPKRQFGSAPPVRRLGHDAQPMTSLDTAILAQRYLRK |
| 4068 | sp|Q9M667|RPP13\_ARATH | MVDAITEFVVGKIGNYLIEEASMFMAVKEDLEELKTELTCIHGYLKDVEAREREDEVSKEWSKLVLDFAYDVEDVLDTYHLKLEERSQRRGLRRLTNKIGRKMDAYSIVDDIRILKRRILDITRKRETYGIGGLKEPQGGGNTSSLRVRQLRRARSVDQEEVVVGLEDDAKILLEKLLDYEEKNRFIISIFGMGGLGKTALARKLYNSRDVKERFEYRAWTYVSQEYKTGDILMRIIRSLGMTSGEELEKIRKFAEEELEVYLYGLLEGKKYLVVVDDIWEREAWDSLKRALPCNHEGSRVIITTRIKAVAEGVDGRFYAHKLRFLTFEESWELFEQRAFRNIQRKDEDLLKTGKEMVQKCRGLPLCIVVLAGLLSRKTPSEWNDVCNSLWRRLKDDSIHVAPIVFDLSFKELRHESKLCFLYLSIFPEDYEIDLEKLIHLLVAEGFIQGDEEMMMEDVARYYIEELIDRSLLEAVRRERGKVMSCRIHDLLRDVAIKKSKELNFVNVYNDHVAQHSSTTCRREVVHHQFKRYSSEKRKNKRMRSFLYFGEFDHLVGLDFETLKLLRVLDFGSLWLPFKINGDLIHLRYLGIDGNSINDFDIAAIISKLRFLQTLFVSDNYFIEETIDLRKLTSLRHVIGNFFGGLLIGDVANLQTLTSISFDSWNKLKPELLINLRDLGISEMSRSKERRVHVSWASLTKLESLRVLKLATPTEVHLSLESEEAVRSMDVISRSLESVTLVGITFEEDPMPFLQKMPRLEDLILLSCNYSGKMSVSEQGFGRLRKLDLLMRSLDELQIEEEAMPNLIELEISVSKRETKLIIPNRLRAFGQIYC |
| 4069 | sp|Q8CDA1|SAC2\_MOUSE | MELFQAKDHYILQQGERALWCSRRDGGLQLRPATDLLLAWNPICLGLVEGVIGKIQLHSDLPWWLILIRQKALVGKLPGDHEVCKVTKIAVLSLSEMEPQELELELCKKHHFGINKPEKIIPSPDDSKFLLKTFTNIKSNVSAPNKKKVKESKEKEKLERRLLEELLKMFMDSESFYYSLTYDLTNSVQRQSTGERDGRPLWQKVDDRFFWNKYMIQALTEIGTPDVDFWIIPIIQGFVQIEELVVNYNESSDDDKSSPETPPQDSTCVDDIHPRFLVALISRRSRHRAGMRYKRRGVDKNGNVANYVETEQLIHVHHHTLSFIQTRGSVPVFWSQVGYRYNPRPRLDKSEKETVDCFCAHFEEQLKIYKKQVIVNLVDQAGREKIIGDAYLKQVLLFNNPKLTYVSFDFHEHCRGMKFENVQTLTDAIHDIIIDMKWCWVDQAGVICKQEGIFRVNCMDCLDRTNVVQAAIARVVMEQQLKKLGVMPPEQPLPVKCNRTYQIMWANNGDSISRQYAGTAALKGDFTRTGERKLAGVMKDGVNSANRYYLSRFKDAYRQAVIDLMQGVPVTEDLYSIFTKEKEHEALHKESQRSHQELISQLLQSYMQLLLPGDEKFHGGWALVDCDPSLTDAAHRDVEVLLLLSNAAYYVAYYDDEVDKVNQYQRLGLEDLERIEIGPEPTLFGKPKFSCMRLHYRCKEAGGYFHTLRAVPRSPEEDGKDTLQCIAEMLQITKQAMGLDVPIIEKKLERKSSKPHEDIIGIRSQNQGSLAQGKSFLMSKFSSLNQKVKQTKSNVNIGNLRKLGNFTKPEMKVNFLKPNLKVNLWKSDSSLETMENPGVMGNKVQGESDGDISSDNDSYHSDEFLTNSKSEEDKQLANSLESVGPIDYILPSCGIIVSAPRLGSRSQSASSIDVSTHAPSEAAAGPGSELGKGLESPLKKSPSADSIHTRTGFTKPMDVYCQRFVQDAQNKMNDLSEIRSVAQKSEEGSHKTNRVSNEETQSEPMGQTPPRPSQLNVSCSVAGPPFLSVEPVHSVLSQKTPSSGSSLLELEAGLCVTPSSESSSSRAVSPFAKIRSSMVQVANITQAGLTHGINLAVAKVQKSPAEPEAVNEIQQNELKNMFTQCQTRIIQI |
| 4070 | sp|Q9VWF2|SAYP\_DROME | MNDLRQQQMVAATSSSGSESGTAVESAAATSTAGSAGAAGRPQSNCSANSNAKSVAASSTSEEEQRVSSTSSPAQRDQQLNADRDREQEPEPQQQQQREEALQHQHNQPGHITSTTASPPPTLPPPTTPCDDAPSTTGASASASSASGEAPSAASAAGAAGGPMAATALEVESEERDGHKIILKLSKHANPNSNANESQPGGDERRVEPLRIQLPCGGAEGGLVAKQQDAFDADASSCSSSCAEDEVATTLGQQLRNTPHIVPKLTIRAANERRVGSVVPKLTIKLPENPAASGSNSNSGSCSAAVSGAQSAMPAKNDAHLSSLSPASASSSSASSSSSSSSSSSLAEMQTVPKLMIKTTLAGSSCISSSEELPQQQQQIPKLTIKTGGGGQEHVHTVIMTHDLNNAQSIPKLTIKTKSIEMIEDEQAAKLEQQLQPLPKLTIKNLCSPKHKVRAVLEEKPPTAASKLAIPKPTPNPTPAPMTNGGESNSSSQEFCGFSDPDADIAAPASDDVRRNSDDMVIDDSLSKEHDPKIFHNLPPMPASNGIASGGSKASKASKSAQSQHNVVDMVDLTSSPSPGSSPTHVPNNFTGRISPKGLLIDCLRMQTAIGCYVPEEADSRVRPAASPNSNILLSQLTAPAKSFTTTTPKSKSSKYPQLTERLMANGSGTGGGSVIAAESEAVVGPLPAANPAQSIIESIEILDTPDGSPRVAYMDEDSNPMLNKHLQTIHKLAMDHGVEQRMDTQDNNNENHLKRTNSEGNESPSSRLPPSKQRRLDNDENDQQTQNCHDPARKCSESLQALPPSHRSRKQKHERILNTDLEGSLFPPTQQQSISTPDQNGALSSEVEGEDAKAQDPLEPATPQPPPVATPAGTGKKRGRPKRIQNQSSPDGGGAVTPKPGTPQEEANSAVKSRRVQLLRKRLAIDMVSVGQEQADMKAKEKESSVGVPNARVEDGLAETLESPKTRDHRPLRATRRTTTSTNTNLQPTPKSTRKRQSKASVQQSQLPPPTMAQFGSSESESNNNNNSSISFALSAQIDLTMCSSSSSTSSGAAANQQVIGGSGSSSMLPPTTILSSSDPLPDVIFQPNDFSSIMATQQLRSSRPSSISCGSTGGSQPDCHDEDNYTSALDNSGDETALPMPPTRGRGRGRRSRGGRGRGSSSVDRAVSVGGTASTTPATQPRAPRMSRGASAVAKAIAMSRPRCVGGLKHQPDPERLKGLFSPSPQVFEEDTRMSADLSNSNQSMASLMEPPLTPQKQPDFLNNEESQSSMVSNVSMMDSNQGQSADAILGSALKRPKKKKMETCVAEDTDYSASSIAEYDWPPPKGCCPSKNRDTFMIQEQVALYLGITSFKRKYPDLPRRSVDMEERNWLQEKGLVSEKLCDLGITAVWASDILDIMYADFFDKYEEYKEYIRRKHLREIEAKQKALGLTVGAGRGLQARDRAMLSATKWNAYFNKSRKDERQSCMDLQTFTINQPQPRTAPTCTRLERSTSDLIRAVAEEANIPAPPNLLPPRDYDEAFRNSDYAYPLTVVPDQFSMAYRQFEPAELRAYPLDTALDKPPTDLMAQLLQAKSEAVGSDEIKTSAPAPKDLGQEQSAIKSVTVTAPVRRSRRSTRQQTDKVRTASSSSTSSAQSVSSASSGNGSSSDTESGDESDFSSTSSCSSSTGASSGAGSEDEDGNECSSSVRLSTCGVCLRSQHRNARDMPEAFIRCYTCRKRVHPSCVDMPPRMVGRVRNYNWQCAGCKCCIKCRSSQRPGKMLYCEQCDRGYHIYCLGLRTVPDGRWSCERCCFCMRCGATKPEGLPQVAALSQASGGPSANGDRSKAARNKRLKWVHEYRIDHVTKIREHAAMFCVPCARNKPAKRQSAAGAAGAAAVTPVLEATSAQTDDSPMPSPGLTTNGGRALSPTAALSPKAAVPVASLPPVLEATTVTTNIAGTIGRRQAGNAVNITTMQCSSSSSSNFSGNGVTEDAANVTATGTATAAAGAPAATPIGIAPPPVVA |
| 4071 | sp|Q5AHG6|SCH9\_CANAL | MVDFAKSLFGFGNYKKESSSQSPTPPPSAHSSQEQHHKSNTEEYPQSHLSQQQHSHRYQPPHMSEQSHQFPQQQQQQQQSGTNKFFPKTLVSAAPTTAVANHSSVYGTTSTTTNNYPEAYLNQTFKNNIYNPQQQQQQQAQQPPPEQQQSSAPYQNSANIQQPYGNQWGSSQDQDANIITIDKTGNKLSPASRDSPIKGKLKVTILEAKDIFATQPYVVCSFESSEFVTNAPDSYGKSPVSSFGHNNNQGHNGPRNMYNSNHGPSPKALPMKNSGNLFGQRPSMYQRQLSTPHLNLPNDSSNPIWNHDTIFDVVGSKSELDISVYDGARDDAFLGHVRISPSTDKNNKNESEWLQLGARITGETVSSGHIKIKWEYTSFDNNIKRSYGPDDFHFLRLLGKGTFGQVFQVRKKDTNRVYAMKILSKKVIVKKKEIAHTIGERNILVRTSAASSPFIVGLKFSFQTPSDLFLVTDFMSGGELFFHLQKEGRFNEDRSKFYTAELILALEHLHDNDIVYRDLKPENILLDANGHIALCDFGLSKADLNMDGTTNTFCGTTEYLAPEVLLDEQGYTKMVDFWSLGVLIFEMTCGWSPFHAENTQQMYKNIAFGKVRFPKDVLSPEGRSFVKGLLNRNPKHRLGATDDARELKAHPFFADIDWDLLRAKNIPPPFKPHIVSETDISNFDTEFTSENTSALKRQMEMATTPLSPGIQANFKGFTYVDDSTMDDHFARSYRANAFRPPGSFIPGDPNLPPDEEVLAEQIEEEDEMEVDEDQHMDDEFVNGRFDL |
| 4072 | sp|P57725|SAMN1\_MOUSE | MLKRKPSNASDKEKHQKPKRSSSFGNFDRFRNNSVSKSDDSIEVHDRELTNGSEEQSKTSSSGGSLGKKVRAISWTMKKKVGKKYIKALSEEKEEESGEEALPYRNSDPMIGTHTEKISLKASDSMDSLYSGQSSSSGITSCSDGTSNRDSFRLDDDSPYSGPFCGRAKVHTDFTPSPYDTDSLKIKKGDIIDIICKTPMGMWTGMLNNKVGNFKFIYVDVILEEEAAPKKIKVPRSRRRENHQTIQEFLERIHLQEYTSTLLLNGYETLDDLKDIKESHLIELNIADPEDRARLLSAAESLLDEETTVEHEKESVPLSSNPDILSASQLEDCPRDSGCYISSENSDNGKEDLESENLSDMVQKIAITESSD |
| 4073 | sp|Q6IA17|SIGIR\_HUMAN | MPGVCDRAPDFLSPSEDQVLRPALGSSVALNCTAWVVSGPHCSLPSVQWLKDGLPLGIGGHYSLHEYSWVKANLSEVLVSSVLGVNVTSTEVYGAFTCSIQNISFSSFTLQRAGPTSHVAAVLASLLVLLALLLAALLYVKCRLNVLLWYQDAYGEVEINDGKLYDAYVSYSDCPEDRKFVNFILKPQLERRRGYKLFLDDRDLLPRAEPSADLLVNLSRCRRLIVVLSDAFLSRAWCSHSFREGLCRLLELTRRPIFITFEGQRRDPAHPALRLLRQHRHLVTLLLWRPGSVTPSSDFWKEVQLALPRKVQYRPVEGDPQTQLQDDKDPMLILRGRVPEGRALDSEVDPDPEGDLGVRGPVFGEPSAPPHTSGVSLGESRSSEVDVSDLGSRNYSARTDFYCLVSKDDM |
| 4074 | sp|Q9XI47|SHH1\_ARATH | MAASDDSSHYFTEFTLSEIVDMENLYKELGDQSLHKDFCQTVASTFSCSVNRNGKSSITWKQVQIWFQEKLKHQSQPKSKTLPSPPLQIHDLSNPSSYASNASNATFVGNSTFVQTRKGKASDLADLAFEAKSARDYAWYDVSSFLTYRVLRTGELEVRVRFSGFDNRHDEWVNVKTSVRERSIPVEPSECGRVNVGDLLLCFQEREDQALYCDGHVLNIKRGIHDHARCNCVFLVRYELDNTEESLGLERICRRPEE |
| 4075 | sp|Q9Y336|SIGL9\_HUMAN | MLLLLLPLLWGRERAEGQTSKLLTMQSSVTVQEGLCVHVPCSFSYPSHGWIYPGPVVHGYWFREGANTDQDAPVATNNPARAVWEETRDRFHLLGDPHTKNCTLSIRDARRSDAGRYFFRMEKGSIKWNYKHHRLSVNVTALTHRPNILIPGTLESGCPQNLTCSVPWACEQGTPPMISWIGTSVSPLDPSTTRSSVLTLIPQPQDHGTSLTCQVTFPGASVTTNKTVHLNVSYPPQNLTMTVFQGDGTVSTVLGNGSSLSLPEGQSLRLVCAVDAVDSNPPARLSLSWRGLTLCPSQPSNPGVLELPWVHLRDAAEFTCRAQNPLGSQQVYLNVSLQSKATSGVTQGVVGGAGATALVFLSFCVIFVVVRSCRKKSARPAAGVGDTGIEDANAVRGSASQGPLTEPWAEDSPPDQPPPASARSSVGEGELQYASLSFQMVKPWDSRGQEATDTEYSEIKIHR |
| 4076 | sp|O35179|SH3G2\_RAT | MSVAGLKKQFHKATQKVSEKVGGAEGTKLDDDFKEMERKVDVTSRAVMEIMTKTIEYLQPNPASRAKLSMINTMSKIRGQEKGPGYPQAEALLAEAMLKFGRELGDDCNFGPALGEVGEAMRELSEVKDSLDMEVKQNFIDPLQNLHDKDLREIQHHLKKLEGRRLDFDYKKKRQGKIPDEELRQALEKFDESKEIAESSMFNLLEMDIEQVSQLSALVQAQLEYHKQAVQILQQVTVRLEERIRQASSQPRREYQPKPRMSLEFATGDGTQPNGGLSHTGTPKPAGVQMDQPCCRALYDFEPENEGELGFKEGDIITLTNQIDENWYEGMLHGQSGFFPINYVEILVALPH |
| 4077 | sp|Q8IWL1|SFPA2\_HUMAN | MWLCPLALNLILMAASGAACEVKDVCVGSPGIPGTPGSHGLPGRDGRDGVKGDPGPPGPMGPPGETPCPPGNNGLPGAPGVPGERGEKGEAGERGPPGLPAHLDEELQATLHDFRHQILQTRGALSLQGSIMTVGEKVFSSNGQSITFDAIQEACARAGGRIAVPRNPEENEAIASFVKKYNTYAYVGLTEGPSPGDFRYSDGTPVNYTNWYRGEPAGRGKEQCVEMYTDGQWNDRNCLYSRLTICEF |
| 4078 | sp|Q8CFH6|SIK2\_MOUSE | MVMADGPRHLQRGPVRVGFYDIEGTLGKGNFAVVKLGRHRTTKTEVAIKIIDKSQLDAVNLEKIYREVQIMKMLDHPHIIKLYQVMETKSMLYLVTEYAKNGEIFDYLANHGRLNESEARRKFWQILSAVDYCHGRKVVHRDLKAENLLLDNNMNIKIADFGFGNFFKTGELLATWCGSPPYAAPEVFEGQQYEGPQLDIWSMGVVLYVLVCGALPFDGPTLPILRQRVLEGRFRIPYFMSEDCEHLIRRMLVLDPSKRLSIAQIKEHKWMLIEVPVQRPILYPQEQENEPSIGEFNEQVLRLMHSLGIDQQKTVESLQNKSYNHFAAIYFLLVERLKSHRSSFPVEQRLDGRQRRPSTIAEQTVAKAQTVGLPVTLHPPNVRLMRSTLLPQASNVEAFSFPTSSCQAEAAFMEEECVDTPKVNGCLLDPVPPVLVRKGCQSLPSSMMETSIDEGLETEGEAEEDPSQAFEAFQATRSGQRRHTLSEVTNQLVVMPGAGKMFSMSDNPSLESVDSEYDMGSAQRDLNFLEDSPSLKDIMLANQPSPRMTSPFISLRPANPAMQALSSQKREAHNRSPVSFREGRRASDTSLTQGIVAFRQHLQNLARTKGILELNKVQLLYEQMGSNADPTLTSTAPQLQDLSSSCPQEEISQQQESVSSLSASMHPQLSPQQSLETQYLQHRLQKPNLLPKAQSPCPVYCKEPPRSLEQQLQEHRLQQKRLFLQKQSQLQAYFNQMQIAESSYPGPSQQLALPHQETPLTSQQPPSFSLTQALSPVLEPSSEQMQFSSFLSQYPEMQLQPLPSTPGPRAPPPLPSQLQQHQQPPPPPPPPPPQQPGAAPTSLQFSYQTCELPSTTSSVPNYPASCHYPVDGAQQSNLTGADCPRSSGLQDTASSYDPLALSELPGLFDCEMVEAVDPQHNGVVSCLARET |
| 4079 | sp|Q16586|SGCA\_HUMAN | MAETLFWTPLLVVLLAGLGDTEAQQTTLHPLVGRVFVHTLDHETFLSLPEHVAVPPAVHITYHAHLQGHPDLPRWLRYTQRSPHHPGFLYGSATPEDRGLQVIEVTAYNRDSFDTTRQRLVLEIGDPEGPLLPYQAEFLVRSHDAEEVLPSTPASRFLSALGGLWEPGELQLLNVTSALDRGGRVPLPIEGRKEGVYIKVGSASPFSTCLKMVASPDSHARCAQGQPPLLSCYDTLAPHFRVDWCNVTLVDKSVPEPADEVPTPGDGILEHDPFFCPPTEAPDRDFLVDALVTLLVPLLVALLLTLLLAYVMCCRREGRLKRDLATSDIQMVHHCTIHGNTEELRQMAASREVPRPLSTLPMFNVHTGERLPPRVDSAQVPLILDQH |
| 4080 | sp|Q8N114|SHSA5\_HUMAN | MTAPVPAPRILLPLLLLLLLTPPPGARGEVCMASRGLSLFPESCPDFCCGTCDDQYCCSDVLKKFVWSEERCAVPEASVPASVEPVEQLGSALRFRPGYNDPMSGFGATLAVGLTIFVLSVVTIIICFTCSCCCLYKTCRRPRPVVTTTTSTTVVHAPYPQPPSVPPSYPGPSYQGYHTMPPQPGMPAAPYPMQYPPPYPAQPMGPPAYHETLAGGAAAPYPASQPPYNPAYMDAPKAAL |
| 4081 | sp|P97401|SFRP3\_MOUSE | MVCCGPGRMLLGWAGLLVLAALCLLQVPGAQAAACEPVRIPLCKSLPWNMTKMPNHLHHSTQANAILAMEQFEGLLGTHCSPDLLFFLCAMYAPICTIDFQHEPIKPCKSVCERARQGCEPILIKYRHSWPESLACDELPVYDRGVCISPEAIVTADGADFPMDSSTGHCRGASSERCKCKPVRATQKTYFRNNYNYVIRAKVKEVKMKCHDVTAVVEVKEILKASLVNIPRDTVNLYTTSGCLCPPLTVNEEYVIMGYEDEERSRLLLVEGSIAEKWKDRLGKKVKRWDMKLRHLGLGKTDASDSTQNQKSGRNSNPRPARS |
| 4082 | sp|Q8N474|SFRP1\_HUMAN | MGIGRSEGGRRGAALGVLLALGAALLAVGSASEYDYVSFQSDIGPYQSGRFYTKPPQCVDIPADLRLCHNVGYKKMVLPNLLEHETMAEVKQQASSWVPLLNKNCHAGTQVFLCSLFAPVCLDRPIYPCRWLCEAVRDSCEPVMQFFGFYWPEMLKCDKFPEGDVCIAMTPPNATEASKPQGTTVCPPCDNELKSEAIIEHLCASEFALRMKIKEVKKENGDKKIVPKKKKPLKLGPIKKKDLKKLVLYLKNGADCPCHQLDNLSHHFLIMGRKVKSQYLLTAIHKWDKKNKEFKNFMKKMKNHECPTFQSVFK |
| 4083 | sp|Q06168|SFH1\_YEAST | MSHQNQLIPQAYISNFHNRLTNEDDGIPIFTMAQQTRQHKRAKVVNYAEYDNDLFDEFNMNGSNFNNADTHYKDNAVSHENTPALTNGVTMDGSEYNVLENMNGADSIISNNKYDAGSNMVVESLSGLNSNNNASNGPSNKAQAQDIGNAVLPDLQDQHHNPFNILRYPKIRDTFINGKVVSPYRLNTDQETKANANSGEAIMIPITLDIEHMGHTIKDQFLWNYNDDSISPEEFASIYCKDLDMTSATLQTQIANIIKEQLKDLENIAATEIMSDLHVIINLTCNLQDRFFEDNFQWNLNDKSLTPERFATSIVQDLGLTREFIPLISQSLHETILKIKKDWVDGHLIQDHVPNDAAFGYLSGIRLDIDELGSNWCPRVEILTKEEIQKREIEKERNLRRLKRETDRLSRRGRRRLDDLETTMRM |
| 4084 | sp|Q11203|SIAT6\_HUMAN | MGLLVFVRNLLLALCLFLVLGFLYYSAWKLHLLQWEEDSNSVVLSFDSAGQTLGSEYDRLGFLLNLDSKLPAELATKYANFSEGACKPGYASALMTAIFPRFSKPAPMFLDDSFRKWARIREFVPPFGIKGQDNLIKAILSVTKEYRLTPALDSLRCRRCIIVGNGGVLANKSLGSRIDDYDIVVRLNSAPVKGFEKDVGSKTTLRITYPEGAMQRPEQYERDSLFVLAGFKWQDFKWLKYIVYKERVSASDGFWKSVATRVPKEPPEIRILNPYFIQEAAFTLIGLPFNNGLMGRGNIPTLGSVAVTMALHGCDEVAVAGFGYDMSTPNAPLHYYETVRMAAIKESWTHNIQREKEFLRKLVKARVITDLSSGI |
| 4085 | sp|Q24322|SEM1A\_DROME | MLNSHNTNHNNNSASNSNYNKGHKMHLKSATAKATIMKHKLSKFYGYGWMQVFLLLTVLVIGNQSAWQENIRPKLYVELGPEDVLKFVGNESVVDHFKLVTKDGNSLLIGARNTVFNLSIHDLVEQQRLVWTSPEDDTKMCLVKGKDEEACQNYIRIMVVPSPGRLFVCGTNSFRPMCNTYIISDSNYTLEATKNGQAVCPYDPRHNSTSVLADNELYSGTVADFSGSDPIIYREPLQTEQYDSLSLNAPNFVSSFTQGDFVYFFFRETAVEFINCGKAIYSRVARVCKWDKGGPHRFRNRWTSFLKSRLNCSIPGDYPFYFNEIQSASNLVEGQYGSMSSKLIYGVFNTPSNSIPGSAVCAFALQDIADTFEGQFKEQTGINSNWLPVNNAKVPDPRPGSCHNDSRALPDPTLNFIKTHSLMDENVPAFFSQPILVRTSTIYRFTQIAVDAQIKTPGGKTYDVIFVGTDHGKIIKSVNAESADSADKVTSVVIEEIDVLTKSEPIRNLEIVRTMQYDQPKDGSYDDGKLIIVTDSQVVAIQLHRCHNDKITSCSECVALQDPYCAWDKIAGKCRSHGAPRWLEENYFYQNVATGQHAACPSGKINSKDANAGEQKGFRNDMDLLDSRRQSKDQEIIDNIDKNFEDIINAQYTVETLVMAVLAGSIFSLLVGFFTGYFCGRRCHKDEDDNLPYPDTEYEYFEQRQNVNSFPSSCRIQQEPKLLPQVEEVTYAEPVLLPQPPPPNKMHSPKNTLRKPPMHQMHQGPNSETLFQFQPDGYNTQQSYRGRDNFGTLRSHQVMGDNYRRGDGFSTTRSVKKAVNNTNTRNRSLGRARRQPPRHGIVTQHRSNSPQQQQQQSQQPHSSSGSSPVMSNSSSSPAPPSSSPSPQESPKNCSYIYRD |
| 4086 | sp|Q64151|SEM4C\_MOUSE | MAPHWAVWLLAAGLWGLGIGAEMWWNLVPRKTVSSGELVTVVRRFSQTGIQDFLTLTLTEHSGLLYVGAREALFAFSVEALELQGAISWEAPAEKKIECTQKGKSNQTECFNFIRFLQPYNSSHLYVCGTYAFQPKCTYINMLTFTLDRAEFEDGKGKCPYDPAKGHTGLLVDGELYSATLNNFLGTEPVILRYMGTHHSIKTEYLAFWLNEPHFVGSAFVPESVGSFTGDDDKIYFFFSERAVEYDCYSEQVVARVARVCKGDMGGARTLQKKWTTFLKARLVCSAPDWKVYFNQLKAVHTLRGASWHNTTFFGVFQARWGDMDLSAVCEYQLEQIQQVFEGPYKEYSEQAQKWARYTDPVPSPRPGSCINNWHRDNGYTSSLELPDNTLNFIKKHPLMEDQVKPRLGRPLLVKKNTNFTHVVADRVPGLDGATYTVLFIGTGDGWLLKAVSLGPWIHMVEELQVFDQEPVESLVLSQSKKVLFAGSRSQLVQLSLADCTKYRFCVDCVLARDPYCAWNVNTSRCVATTSGRSGSFLVQHVANLDTSKMCNQYGIKKVRSIPKNITVVSGTDLVLPCHLSSNLAHAHWTFGSQDLPAEQPGSFLYDTGLQALVVMAAQSRHSGPYRCYSEEQGTRLAAESYLVAVVAGSSVTLEARAPLENLGLVWLAVVALGAVCLVLLLLVLSLRRRLREELEKGAKASERTLVYPLELPKEPASPPFRPGPETDEKLWDPVGYYYSDGSLKIVPGHARCQPGGGPPSPPPGIPGQPLPSPTRLHLGGGRNSNANGYVRLQLGGEDRGGSGHPLPELADELRRKLQQRQPLPDSNPEESSV |
| 4087 | sp|P47008|SFH5\_YEAST | MKFDNDSEKQVFDKLKKAIPGIIKEKCAGYDELYGYKLNPEGLTQEEVDKYYDEKIADRLTYKLCKAYQFEYSTIVQNLIDILNWRREFNPLSCAYKEVHNTELQNVGILTFDANGDANKKAVTWNLYGQLVKKKELFQNVDKFVRYRIGLMEKGLSLLDFTSSDNNYMTQVHDYKGVSVWRMDSDIKNCSKTVIGIFQKYYPELLYAKYFVNVPTVFGWVYDLIKKFVDETTRKKFVVLTDGSKLGQYLKDCPYEGYGGKDKKNNLTKQNVTNVHPTEYGLYILQKQIIEDVE |
| 4088 | sp|Q80U72|SCRIB\_MOUSE | MLKCIPLWRCNRHVESVDKRHCSLQVVPEEIYRYSRSLEELLLDANQLRELPKPFFRLLNLRKLGLSDNEIQRLPPEVANFMQLVELDVSRNDIPEIPESIKFCKALEIADFSGNPLSRLPDGFTQLRSLAHLALNDVSLQALPGDVGNLANLVTLELRENLLKSLPASLSFLVKLEQLDLGGNDLEVLPDTLGALPNLRELWLDRNQLSALPPELGNLRRLVCLDVSENRLEELPVELGGLALLTDLLLSQNLLQRLPEGIGQLKQLSILKVDQNRLCEVTEAIGDCENLSELILTENLLTALPHSLGKLTKLTNLNVDRNHLEVLPPEIGGCVALSVLSLRDNRLAVLPPELAHTAELHVLDVAGNRLRSLPFALTHLNLKALWLAENQAQPMLRFQTEDDAQTGEKVLTCYLLPQQPLPSLEDAGQQSSPSESCSDAPLSRVSVIQFEDTLEGEEDAEEAAAEKRGLQRRATPHPSELKVMKRGIEERRNEAFVCKPDPSPPSPSEEEKRLSAESALSGGSVPSASTASEGEPEILPAEVQGLGQHEAMPAQEEYTEDDYNEPTVHFAEDTLIPREDGESEEGQPEAAWPLPSGRQRLIRKDTPHYKKHFKISKLPQPEAVVALLQGVQTDREGPTAGWHNGPHTPWAPRAHEEEEEEEEENRDEEEGEATTEEDDKEEAVASAPSVKGVSFDQANNLLIEPARIEEEELTLTIVRQTGGLGISIAGGKGSTPYKGDDEGIFISRVSEEGPAARAGVRVGDKLLEVNGVALQDAEHHEAVEALRGAGAAVQMRVWRERMVEPENAVTITPLRPEDDYSPREWRGGGLRLPLLQPETPVSLRQRHAACLVRSEKGLGFSIAGGKGSTPYRAGDGGIFISRIAEGGAAHRAGTLQVGDRVLSINGVDMTEARHDHAVSLLTAASPTISLLLERETGGTYPPSPPPHSSPTPAATVAATVSTAVPGEPLLPRLSPSLLATALEGPYPVEEICLPRAGGPLGLSIVGGSDHSSHPFGVQDPGVFISKVLPRGLAARCGLRVGDRILAVNGQDVREATHQEAVSALLRPCLELCLLVRRDPPPPGMRELCIQKAPGEKLGISIRGGAKGHAGNPCDPTDEGIFISKVSPTGAAGRDGRLRVGLRLLEVNQQSLLGLTHAEAVQLLRSVGDTLTVLVCDGFDTSTTTALEVSPGVIANPFAAGLGHRNSLESISSIDRELSPEGPGKEKELASQALPWESESAETTGRNLEPLKLDYRALAALPSAGSLQRGPSATTGGKTTEAPCSPGSQQPPSPDELPANVKQAYRAFAAVPTVHPPENSATQPPTPGPAASPEQLSFRERQKYFELEVRVPQAEGPPKRVSLVGADDLRKMQEEEARKLQQKRAQMLREEAVTSGPDMGLASDRESPDDQQEAEQPWAVPSHAGGSSPSSPPPLGGNAPVRTAKAERRHQERLRMQSPELPAPERALSPAERRALEAEKRALWRAARMKSLEQDALRAQMVLSKSQEGRGKRGPLERLAEAPSPAPTPSPTPLEDFGLQTSASPGRLSPDFVEELRTLEASPSPGSQEEDGEVALVLLGRPSPGAVGPEDMTLCSSRRSVRPGRRGLGPVPS |
| 4089 | sp|P24280|SEC14\_YEAST | MVTQQEKEFLESYPQNCPPDALPGTPGNLDSAQEKALAELRKLLEDAGFIERLDDSTLLRFLRARKFDVQLAKEMFENCEKWRKDYGTDTILQDFHYDEKPLIAKFYPQYYHKTDKDGRPVYFEELGAVNLHEMNKVTSEERMLKNLVWEYESVVQYRLPACSRAAGHLVETSCTIMDLKGISISSAYSVMSYVREASYISQNYYPERMGKFYIINAPFGFSTAFRLFKPFLDPVTVSKIFILGSSYQKELLKQIPAENLPVKFGGKSEVDESKGGLYLSDIGPWRDPKYIGPEGEAPEAFSMK |
| 4090 | sp|Q8C4U3|SFRP1\_MOUSE | MGVGRSARGRGGAASGVLLALAAALLAAGSASEYDYVSFQSDIGSYQSGRFYTKPPQCVDIPVDLRLCHNVGYKKMVLPNLLEHETMAEVKQQASSWVPLLNKNCHMGTQVFLCSLFAPVCLDRPIYPCRWLCEAVRDSCEPVMQFFGFYWPEMLKCDKFPEGDVCIAMTPPNTTEASKPQGTTVCPPCDNELKSEAIIEHLCASEFALRMKIKEVKKENGDKKIVPKKKKPLKLGPIKKKELKRLVLFLKNGADCPCHQLDNLSHNFLIMGRKVKSQYLLTAIHKWDKKNKEFKNFMKRMKNHECPTFQSVFK |
| 4091 | sp|Q9UIL1|SCOC\_HUMAN | MRRRVFSSQDWRASGWDGMGFFSRRTFCGRSGRSCRGQLVQVSRPEVSAGSLLLPAPQAEDHSSRILYPRPKSLLPKMMNADMDAVDAENQVELEEKTRLINQVLELQHTLEDLSARVDAVKEENLKLKSENQVLGQYIENLMSASSVFQTTDTKSKRK |
| 4092 | sp|Q9Y5X0|SNX10\_HUMAN | MFPEQQKEEFVSVWVRDPRIQKEDFWHSYIDYEICIHTNSMCFTMKTSCVRRRYREFVWLRQRLQSNALLVQLPELPSKNLFFNMNNRQHVDQRRQGLEDFLRKVLQNALLLSDSSLHLFLQSHLNSEDIEACVSGQTKYSVEEAIHKFALMNRRFPEEDEEGKKENDIDYDSESSSSGLGHSSDDSSSHGCKVNTAPQES |
| 4093 | sp|Q9WV80|SNX1\_MOUSE | MASGGGGCSASERLPPPFPGMDPESEGAAGASEPEAGDSDTEGEDIFTGAAAATKPQSPKKTTSLFPIKNGSKENGIHEDQDQEPQDLFADATVELSLDSTQNNQKTMPGKTLTSHSPQEATNSPKPQPSYEELEEEEQEDQFDLTVGITDPEKIGDGMNAYVAYKVTTQTSLPMFRSRQFAVKRRFSDFLGLYEKLSEKHSQNGFIVPPPPEKSLIGMTKVKVGKEDSSSAEFLEKRRAALERYLQRIVNHPTMLQDPDVREFLEKEELPRAVGTQALSGAGLLKMFNKATDAVSKMTIKMNESDIWFEEKLQEVECEEQRLRKLHAVVETLVNHRKELALNTALFAKSLAMLGSSEDNTALSRALSQLAEVEEKIEQLHQEQANNDSFLLAELLSDYIRLLAIVRAAFDQRMKTWQRWQDAQATLQKKRESEARLLWANKPDKLQQAKDEITEWESRVTQYERDFERISTVVRKEVTRFEKEKSKDFKNHVMKYLETLLHSQQQLAKYWEAFLPEAKAIS |
| 4094 | sp|Q9R1V3|SMAD5\_RAT | MTSMASLFSFTSPAVKRLLGWKQGDEEEKWAEKAVDALVKKLKKKKGAMEELEKALSSPGQPSKCVTIPRSLDGRLQVSHRKGLPHVIYCRVWRWPDLQSHHELKPLDICEFPFGSKQKEVCINPYHYKRVESPVLPPVLVPRHNEFNPQHSLLVQFRNLSHNEPHMPQNATFPDSFHQPNSTPFPLSPNSPYPPSPASSTYPNSPASSGPGSPFQLPADTPPPAYMPPDDQMGQDNSQPMDTSNNMIPQIMPSISSRDVQPVAYEEPKHWCSIVYYELNNRVGEAFHASSTSVLVDGFTDPANNKSRFCLGLLSNVNRNSTIENTRRHIGKGVHLYYVGGEVYAECLSDSSIFVQSRNCNFHHGFHPTTVCKIPSSCSLKIFNNQEFAQLLAQSVNHGFEAVYELTKMCTIRMSFVKGWGAEYHRQDVTSTPCWIEIHLHGPLQWLDKVLTQMGSPLNPISSVS |
| 4095 | sp|Q57763|SPEH\_METJA | MLKYLGKHLILELWGCDPKALDDIEGIEKMLVDSVKACGATLICVRTHKFSPQGATGVAVLAESHIAIHTYPEYGYAALDVFTCGEHTDPYKALEVIREFLKPKSIQIIDLKRGLMENGTFELK |
| 4096 | sp|Q13573|SNW1\_HUMAN | MALTSFLPAPTQLSQDQLEAEEKARSQRSRQTSLVSSRREPPPYGYRKGWIPRLLEDFGDGGAFPEIHVAQYPLDMGRKKKMSNALAIQVDSEGKIKYDAIARQGQSKDKVIYSKYTDLVPKEVMNADDPDLQRPDEEAIKEITEKTRVALEKSVSQKVAAAMPVRAADKLAPAQYIRYTPSQQGVAFNSGAKQRVIRMVEMQKDPMEPPRFKINKKIPRGPPSPPAPVMHSPSRKMTVKEQQEWKIPPCISNWKNAKGYTIPLDKRLAADGRGLQTVHINENFAKLAEALYIADRKAREAVEMRAQVERKMAQKEKEKHEEKLREMAQKARERRAGIKTHVEKEDGEARERDEIRHDRRKERQHDRNLSRAAPDKRSKLQRNENRDISEVIALGVPNPRTSNEVQYDQRLFNQSKGMDSGFAGGEDEIYNVYDQAWRGGKDMAQSIYRPSKNLDKDMYGDDLEARIKTNRFVPDKEFSGSDRRQRGREGPVQFEEDPFGLDKFLEEAKQHGGSKRPSDSSRPKEHEHEGKKRRKE |
| 4097 | sp|Q8IY18|SMC5\_HUMAN | MATPSKKTSTPSPQPSKRALPRDPSSEVPSKRKNSAPQLPLLQSSGPFVEGSIVRISMENFLTYDICEVSPGPHLNMIVGANGTGKSSIVCAICLGLAGKPAFMGRADKVGFFVKRGCSRGMVEIELFRASGNLVITREIDVAKNQSFWFINKKSTTQKIVEEKVAALNIQVGNLCQFLPQDKVGEFAKLSKIELLEATEKSIGPPEMHKYHCELKNLREKEKQLETSCKEKTEYLQKMVQRNERYKQDVERFYERKRHLDLIEMLEAKRPWVEYENVRQEYEEVKLVRDRVKEEVRKLKEGQIPVTCRIEEMENERHNLEARIKEKATDIKEASQKCKQKQDVIERKDKHIEELQQALIVKQNEELDRQRRIGNTRKMIEDLQNELKTTENCENLQPQIDAITNDLRRIQDEKALCEGEIIDKRRERETLEKEKKSVDDHIVRFDNLMNQKEDKLRQRFRDTYDAVLWLRNNRDKFKQRVCEPIMLTINMKDNKNAKYIENHIPSNDLRAFVFESQEDMEVFLKEVRDNKKLRVNAVIAPKSSYADKAPSRSLNELKQYGFFSYLRELFDAPDPVMSYLCCQYHIHEVPVGTEKTRERIERVIQETRLKQIYTAEEKYVVKTSFYSNKVISSNTSLKVAQFLTVTVDLEQRRHLEEQLKEIHRKLQAVDSGLIALRETSKHLEHKDNELRQKKKELLERKTKKRQLEQKISSKLGSLKLMEQDTCNLEEEERKASTKIKEINVQKAKLVTELTNLIKICTSLHIQKVDLILQNTTVISEKNKLESDYMAASSQLRLTEQHFIELDENRQRLLQKCKELMKRARQVCNLGAEQTLPQEYQTQVPTIPNGHNSSLPMVFQDLPNTLDEIDALLTEERSRASCFTGLNPTIVQEYTKREEEIEQLTEELKGKKVELDQYRENISQVKERWLNPLKELVEKINEKFSNFFSSMQCAGEVDLHTENEEDYDKYGIRIRVKFRSSTQLHELTPHHQSGGERSVSTMLYLMALQELNRCPFRVVDEINQGMDPINERRVFEMVVNTACKENTSQYFFITPKLLQNLPYSEKMTVLFVYNGPHMLEPNTWNLKAFQRRRRRITFTQPS |
| 4098 | sp|Q59M56|SRR1\_CANAL | MISMNPIMIRNNLSRSSSPAAPPTTNHSSTVDYFSIKPKLSLDINSQSDSNSTQSNNNEDTHSEQSDYNSYTHNQYYDSDDDEDDFDIRDQLLDPFDKITLSNCNEEYYSPLTPFDGQTTSPQDSIISSKSSNKSTTVVPSPQFQLTLPKLTTYSFLIVDDNIINLKILNRILLKLFPKCHIVQIQDSKLVKDLLHKQSFDSIFIDIEMPDVNGIDIAQFVRQDTKFDNMGMVAVTTRNSTQDLELFKQCGIDFTFHKPLNYSLDFMANSIDDIIITRKNKI |
| 4099 | sp|O36023|SPN1\_SCHPO | MASMVLADGMPTVKDDSTRSRGSDVDSFTSTDNVTQINVEAAISENKNEEKPIQDNSEQEFNPHVSIIQRQLNGYVGFASLPNQWHRRCVRQGFNFNVLVLGESGSGKSTLVNTLLNRDVYPPTQKSLTGDFGVNPEPTVMINSSAVEIVENGISLQLNVIDTPGFGDFIDNTDCWQPVLTDIEGRYDQYLELEKHNPRSTIQDPRVHACIFFIQPTGHAISAMELRVMLALHEKVNIIPIIAKADTLTDDELNFTKEMILRDIQYHNIRIFFPPTYETDDPESVAENADIMSRIPFAIIASNTFVVNNEGKRVRGRRYPWGVVEVDNEEHSDFPKLREMLIRTHLEELKEQTNKLYEAYRTERLLSSGISQDHSVFREVNPSAKLEEERALHEEKLMKMEAEMKTIFSQKVQEKEDRLKQSENELRTRHREMKAALEKQKADLIDHKNRLMQAKAAAENEKSKRKFFK |
| 4100 | sp|Q9NY72|SCN3B\_HUMAN | MPAFNRLFPLASLVLIYWVSVCFPVCVEVPSETEAVQGNPMKLRCISCMKREEVEATTVVEWFYRPEGGKDFLIYEYRNGHQEVESPFQGRLQWNGSKDLQDVSITVLNVTLNDSGLYTCNVSREFEFEAHRPFVKTTRLIPLRVTEEAGEDFTSVVSEIMMYILLVFLTLWLLIEMIYCYRKVSKAEEAAQENASDYLAIPSENKENSAVPVEE |
| 4101 | sp|O54928|SOCS5\_MOUSE | MDKVGKMWNNLKYRCQNLFSHEGGSRNENVEMNPNRCPSVKEKSISLGEAAPQQESSPLRENVALQLGLSPSKTFSRRNQNCAAEIPQVVEISIEKDSDSGATPGTRLARRDSYSRHAPWGGKKKHSCSTKTQSSLDTEKKFGRTRSGLQRRERRYGVSSMQDMDSVSSRAVGSRSLRQRLQDTVGLCFPMRTYSKQSKPLFSNKRKIHLSELMLEKCPFPAGSDLAQKWHLIKQHTAPVSPHSTFFDTFDPSLVSTEDEEDRLRERRRLSIEEGVDPPPNAQIHTFEATAQVNPLYKLGPKLAPGMTEISGDGSAIPQTNCDSEEDSTTLCLQSRRQKQRQVSGDSHAHVSRQGAWKVHTQIDYIHCLVPDLLQITGNPCYWGVMDRYEAEALLEGKPEGTFLLRDSAQEDYLFSVSFRRYNRSLHARIEQWNHNFSFDAHDPCVFHSSTVTGLLEHYKDPSSCMFFEPLLTISLNRTFPFSLQYICRAVICRCTTYDGIDGLPLPSMLQDFLKEYHYKQKVRVRWLEREPVKAK |
| 4102 | sp|Q9H9C1|SPE39\_HUMAN | MNRTKGDEEEYWNSSKFKAFTFDDEDDELSQLKESKRAVNSLRDFVDDDDDDDLERVSWSGEPVGSISWSIRETAGNSGSTHEGREQLKSRNSFSSYAQLPKPTSTYSLSSFFRGRTRPGSFQSLSDALSDTPAKSYAPELGRPKGEYRDYSNDWSPSDTVRRLRKGKVCSLERFRSLQDKLQLLEEAVSMHDGNVITAVLIFLKRTLSKEILFRELEVRQVALRHLIHFLKEIGDQKLLLDLFRFLDRTEELALSHYREHLNIQDPDKRKEFLKTCVGLPFSAEDSAHIQDHYTLLERQIIIEANDRHLESAGQTEIFRKHPRKASILNMPLVTTLFYSCFYHYTEAEGTFSSPVNLKKTFKIPDKQYVLTALAARAKLRAWNDVDALFTTKNWLGYTKKRAPIGFHRVVEILHKNNAPVQILQEYVNLVEDVDTKLNLATKFKCHDVVIDTYRDLKDRQQLLAYRSKVDKGSAEEEKIDALLSSSQIRWKN |
| 4103 | sp|Q9Y6L6|SO1B1\_HUMAN | MDQNQHLNKTAEAQPSENKKTRYCNGLKMFLAALSLSFIAKTLGAIIMKSSIIHIERRFEISSSLVGFIDGSFEIGNLLVIVFVSYFGSKLHRPKLIGIGCFIMGIGGVLTALPHFFMGYYRYSKETNINSSENSTSTLSTCLINQILSLNRASPEIVGKGCLKESGSYMWIYVFMGNMLRGIGETPIVPLGLSYIDDFAKEGHSSLYLGILNAIAMIGPIIGFTLGSLFSKMYVDIGYVDLSTIRITPTDSRWVGAWWLNFLVSGLFSIISSIPFFFLPQTPNKPQKERKASLSLHVLETNDEKDQTANLTNQGKNITKNVTGFFQSFKSILTNPLYVMFVLLTLLQVSSYIGAFTYVFKYVEQQYGQPSSKANILLGVITIPIFASGMFLGGYIIKKFKLNTVGIAKFSCFTAVMSLSFYLLYFFILCENKSVAGLTMTYDGNNPVTSHRDVPLSYCNSDCNCDESQWEPVCGNNGITYISPCLAGCKSSSGNKKPIVFYNCSCLEVTGLQNRNYSAHLGECPRDDACTRKFYFFVAIQVLNLFFSALGGTSHVMLIVKIVQPELKSLALGFHSMVIRALGGILAPIYFGALIDTTCIKWSTNNCGTRGSCRTYNSTSFSRVYLGLSSMLRVSSLVLYIILIYAMKKKYQEKDINASENGSVMDEANLESLNKNKHFVPSAGADSETHC |
| 4104 | sp|O43291|SPIT2\_HUMAN | MAQLCGLRRSRAFLALLGSLLLSGVLAADRERSIHDFCLVSKVVGRCRASMPRWWYNVTDGSCQLFVYGGCDGNSNNYLTKEECLKKCATVTENATGDLATSRNAADSSVPSAPRRQDSEDHSSDMFNYEEYCTANAVTGPCRASFPRWYFDVERNSCNNFIYGGCRGNKNSYRSEEACMLRCFRQQENPPLPLGSKVVVLAGLFVMVLILFLGASMVYLIRVARRNQERALRTVWSSGDDKEQLVKNTYVL |
| 4105 | sp|O88838|SPSB2\_MOUSE | MGQTALARGSSSTPTSQALYSDFSPPEGLEELLSAPPPDLVAQRHHGWNPKDCSENIDVKEGGLCFERRPVAQSTDGVRGKRGYSRGLHAWEISWPLEQRGTHAVVGVATALAPLQADHYAALLGSNSESWGWDIGRGKLYHQSKGLEAPQYPAGPQGEQLVVPERLLVVLDMEEGTLGYSIGGTYLGPAFRGLKGRTLYPSVSAVWGQCQVRIRYMGERRVEEPQSLLHLSRLCVRHALGDTRLGQISTLPLPPAMKRYLLYK |
| 4106 | sp|O89090|SP1\_MOUSE | MSDQDHSMDEVTAVVKIEKDVGGNNGGSGNGGGAAFSQTRSSSTGSSSSSGGGGGQESQPSPLALLAATCSRIESPNENSNNSQGPSQSGGTGELDLTATQLSQGANGWQIISSSSGATPTSKEQSGNSTNGSNGSESSKNRTVSGGQYVVAATPNLQNQQVLTGLPGVMPNIQYQVIPQFQTVDGQQLQFAATGAQVQQDGSGQIQIIPGANQQIIPNRGSGGNIIAAMPNLLQQAVPLQGLANNVLSGQTQYVTNVPVALNGNITLLPVNSVSAATLTPSSQAGTISSSGSQESSSQPVTSGTAISSASLVSSQASSSSFFTNANSYSTTTTTSNMGIMNFTSSGSSGTSSQGQTPQRVGGLQGSDSLNIQQNQTSGGSLQGSQQKEGEQSQQTQQQQILIQPQLVQGGQALQALQAAPLSGQTFTTQAISQETLQNLQLQAVQNSGPIIIRTPTVGPNGQVSWQTLQLQNLQVQNPQAQTITLAPMQGVSLGQTSSSNTTLTPIASAASIPAGTVTVNAAQLSSMPGLQTINLSALGTSGIQVHQLPGLPLAIANTPGDHGTQLGLHGSGGDGIHDETAGGEGENSSDLQPQAGRRTRREACTCPYCKDSEGRASGDPGKKKQHICHIQGCGKVYGKTSHLRAHLRWHTGERPFMCNWSYCGKRFTRSDELQRHKRTHTGEKKFACPECPKRFMRSDHLSKHIKTHQNKKGGPGVALSVGTLPLDSGAGSEGTATPSALITTNMVAMEAICPEGIARLANSGINVMQVTELQSINISGNGF |
| 4107 | sp|Q9XZL8|SRA\_DROME | MSDAAKSNNNASADAPDPTTPDATGEADAANAATPTTPRGNHNNNNSANGRSKNKLKSTQNSSGGGSIDKLSPDQDIFINAADGLPNQHPSLPKEGDVDSDTEPEVDADSFDDLPTSIIVTNIHSEVFANPELKHAMEELFRTFSESATFQWLRSFRRLRVNYDNAIAAANARIKLHQYEFNKKTVITCYFAQPVTPVSNKNLQPPAPVKQFLISPPASPPAGWEPREEGEPLVNHDLLAALASLTPGESHELHPQSEDQPAIIVHTAMLAETGPGLQVKAPIVQTKCPERA |
| 4108 | sp|Q12306|SMT3\_YEAST | MSDSEVNQEAKPEVKPEVKPETHINLKVSDGSSEIFFKIKKTTPLRRLMEAFAKRQGKEMDSLRFLYDGIRIQADQTPEDLDMEDNDIIEAHREQIGGATY |
| 4109 | sp|Q9H115|SNAB\_HUMAN | MDNAGKEREAVQLMAEAEKRVKASHSFLRGLFGGNTRIEEACEMYTRAANMFKMAKNWSAAGNAFCQAAKLHMQLQSKHDSATSFVDAGNAYKKADPQEAINCLNAAIDIYTDMGRFTIAAKHHITIAEIYETELVDIEKAIAHYEQSADYYKGEESNSSANKCLLKVAAYAAQLEQYQKAIEIYEQVGANTMDNPLLKYSAKDYFFKAALCHFIVDELNAKLALEKYEEMFPAFTDSRECKLLKKLLEAHEEQNSEAYTEAVKEFDSISRLDQWLTTMLLRIKKSIQGDGEGDGDLK |
| 4110 | sp|Q8NB12|SMYD1\_HUMAN | MTIGRMENVEVFTAEGKGRGLKATKEFWAADIIFAERAYSAVVFDSLVNFVCHTCFKRQEKLHRCGQCKFAHYCDRTCQKDAWLNHKNECSAIKRYGKVPNENIRLAARIMWRVEREGTGLTEGCLVSVDDLQNHVEHFGEEEQKDLRVDVDTFLQYWPPQSQQFSMQYISHIFGVINCNGFTLSDQRGLQAVGVGIFPNLGLVNHDCWPNCTVIFNNGNHEAVKSMFHTQMRIELRALGKISEGEELTVSYIDFLNVSEERKRQLKKQYYFDCTCEHCQKKLKDDLFLGVKDNPKPSQEVVKEMIQFSKDTLEKIDKARSEGLYHEVVKLCRECLEKQEPVFADTNIYMLRMLSIVSEVLSYLQAFEEASFYARRMVDGYMKLYHPNNAQLGMAVMRAGLTNWHAGNIEVGHGMICKAYAILLVTHGPSHPITKDLEAMRVQTEMELRMFRQNEFMYYKMREAALNNQPMQVMAEPSNEPSPALFHKKQ |
| 4111 | sp|Q9W420|SPT6H\_DROME | MAEFLDSEAEESEEEEELDVNERKRLKKLKAAVSDSSEEEEDDEERLREELKDLIDDNPIEEDDGSGYDSDGVGSGKKRKKHEDDDLDDRLEDDDYDLIEENLGVKVERRKRFKRLRRIHDNESDGEEQHVDEGLVREQIAEQLFDENDESIGHRSERSHREADDYDDVDTESDADDFIVDDNGRPIAEKKKKRRPIFTDASLQEGQDIFGVDFDYDDFSKYEEDDYEDDSEGDEYDEDLGVGDDTRVKKKKALKKKVVKKTIFDIYEPSELKRGHFTDMDNEIRKTDIPERMQLREVPVTPVPEGSDELDLEAEWIYKYAFCKHTVSEQEKPESREKMRKPPTTVNKIKQTLEFIRNQQLEVPFIAFYRKEYVKPELNIDDLWKVYYYDGIWCQLNERKRKLKVLFEKMRQFQLDTLCADTDQPVPDDVRLILDSDFERLADVQSMEELKDVHMYFLLNYSHELPRMQAEQRRKAIQERREAKARRQAAAAENGDDAAEAIVVPEPEDDDDPELIDYQLKQASNSSPYAVFRKAGICGFAKHFGLTPEQYAENLRDNYQRNEITQESIGPTELAKQYLSPRFMTTDEVIHAAKYVVARQLAQEPLLRKTMREVYFDRARINIRPTKNGMVLIDENSPVYSMKYVAKKPVSDLFGDQFIKLMMAEEEKLLEITFLEEFEGNACANGTPGDYVEESKALYQLDQFAKHVQEWNKLRAECVQLALQKWVIPDLIKELRSTLHEEAQQFVLRSCTGKLYKWLKVAPYKPQLPPDFGYEEWSTLRGIRVLGLAYDPDHSVAAFCAVTTVEGDISDYLRLPNILKRKNSYNLEEKAQKLADLRKLSDFIKMKKPHIVVIGAESRDAQNIQADIKEILHELETSEQFPPIEVEIIDNELAKIYANSKKGESDFKEYPPLLKQAASLARKMQDPLVEYSQLCDADDEILCLRYHPLQERVPREQLLEQLSLQFINRTSEVGLDINLMVQNSRTINLLQYICGLGPRKGQALLKLLKQSNQRLENRTQLVTVCHLGPRVFINCSGFIKIDTSSLGDSTEAYVEVLDGSRVHPETYEWARKMAIDAMEYDDEETNPAGALEEILESPERLKDLDLDAFAVELERQGFGSKSITLYDIRNELSCLYKDYRTPYTKPSAEELFDMLTKETPDSFYVGKCVTAMVTGFTYRRPQGDQLDSANPVRLDSNESWQCPFCHKDDFPELSEVWNHFDANACPGQPSGVRVRLENGLPGFIHIKNLSDRQVRNPEERVRVSQMIHVRIIKIDIDRFSVECSSRTADLKDVNNEWRPRRDNYYDYVTEEQDNRKVSDAKARALKRKIYARRVIAHPSFFNKSYAEVVAMLAEADQGEVALRPSSKSKDHLTATWKVADDIFQHIDVREEGKENDFSLGRSLWIGTEEFEDLDEIIARHIMPMALAARELIQYKYYKPNMVTGDENERDVMEKLLREEKANDPKKIHYFFTASRAMPGKFLLSYLPKTKVRHEYVTVMPEGYRFRGQIFDTVNSLLRWFKEHWLDPTATPASASASNLTPLHLMRPPPTISSSSQTSLGPQAPYSVTGSVTGGTPRSGISSAVGGGGSSAYSITQSITGYGTSGSSAPGAGVSSSHYGSSSTPSFGAINTPYTPSGQTPFMTPYTPHASQTPRYGHNVPSPSSQSSSSQRHHYGSSSGTGSTPRYHDMGGGGGGGVGGGGGSNAYSMQPHHQQRAKENLDWQLANDAWARRRPQQHQSHQSYHAQQQHHHSQQQPHMGMSMNMGITMSLGRGTGGGGGGGYGSTPVNDYSTGGGHNRGMSSKASVRSTPRTNASPHSMNLGDATPLYDEN |
| 4112 | sp|Q9SY09|SMD1B\_ARATH | MKLVRFLMKLNNETVSIELKNGTIVHGTITGVDVSMNTHLKAVKLTLKGKNPVTLDHLSVRGNNIRYYILPDSLNLETLLVEDTPRIKPKKPTAGKIPAGRGRGRGRGRGRGRGGR |
| 4113 | sp|O14187|SPP42\_SCHPO | MASLPPGNPPPPPPPPGFEPPSQPPPPPPPGYVKKRKNKTPAQSGNLEKQLNERARKWRASQKSKFGVKRKQGYVQTEKADLPPEHLRKIMKDRGDMSSRKFRADKRSYLGALKYLPHAVLKLLENMPMPWEEYREVKVLYHVTGAITFVNESPRVIEPHFIAQWGTMWMMMRREKRDRKNFKRLRFPPFDDEEPPFSIDQLLDLEPLEAIRMDLDEEDDAPVMDWFYENKALEDTPHVNGPTYRRWKLNLPQMANLHRLGYQLLSDLRDDNYFYLFNDNSFFTAKALNVAIPGGPKFEPLYKDEAPEMEDWNEFNDIYKLIIRHPIKTEYRIAFPYLYNSRARSVALSEYHQPSNVFVPPEDPDLPAFFWDPIINPITSRQLTLHELDTSPEDSAIEEDPNFEIPFDPFFHSEDIEFEHTASALILLWAPHPFNKRSGATKRAQDVPLIKHWYLEHCPPNQPVKVRVSYQKLLKSHVMNKLHMAHPKSHTNRSLLRQLKNTKFFQSTSIDWVEAGLQVCRQGYNMLQLLIHRKGLTYLHLDYNCNLKPTKTLTTKERKKSRFGNAFHLMREILRLTKLIVDSHVQYRLGNIDAYQLADGLHYIFNHVGQLTGMYRYKYRLMRQIRACKDFKHLIYYRFNTGPVGKGPGCGFWAPSWRVWLFFLRGIVPLLERWLGNLLARQFEGRHSTGVAKQITKQRVDSHQDLELRAAVMNDILDMIPEGIRQGKSKTILQHLSEAWRCWKANIPWKVPGLPAPIENMILRYVKSKADWWTSVAHFNRERIRRGATVDKTVAKKNLGRLTRLWLKAEQERQHNYLKDGPYVTADEAVAIYTTFVHWLESRRFQPIPFPPLSYKHDTKLLVLALERLKEAYSVKGRLNQSQREELALVEQAYDNPHEMLSQIKRRLLTMRTFKEVGIEFMDMYSHLIPVYSVDPMEKICDAYLDQYLWFEADRRHLFPSWVKPSDSEPPPLLVYKWCQGINNLTDVWETSNGECNVLMETRLSKVFEKVDLTLLNRLMSLLMDTNLASYASAKNNVVLSYKDMSHTNSYGLVRGLQFSSFIWQFYGLVLDLLILGLQRATEIAGPADAPNDFLHFKDQATETSHPIRLYTRYIDKVYIMFRFTDEESRDLIQRFLNENPDPTNSNVVNYSKGKKNCWPRDARMRLMKHDVNLGRAVFWEIRNRLPRSLTTLEWEDTFPSVYSKDNPNLLFSMTGFEVRILPKIRQNEEFSLKDGVWNLTDNRTKQRTAQAFIRVTEDGINQFGNRIRQILMSSGSTTFTKIANKWNTALIALMTYYREAAISTPELLDLLVKCESKIQTRVKISLNSKMPSRFPPAVFYSPKELGGLGMLSMGHVLIPQSDLRWSKQTDTGITHFRSGMTTNGEHLIPNLYRYIQPWESEFIDSQRVWAEYAMKRQEALQQNRRLTLEDLEDSWDRGIPRINTLFQKDRHTLAYDKGWRVRTEFKQYQLLKNNPFWWTSQRHDGKLWQLNNYRVDVIQALGGVEGILEHTMFKATGFPSWEGLFWEKASGFEESMKFKKLTNAQRSGLNQIPNRRFTLWWSPTINRANVYVGFQVQLDLTGIMMHGKIPTLKISLIQIFRSHLWQKIHESVVWDLCQVLDQELESLQIETVQKETIHPRKSYKMNSSCADILLLAAYKWNVSRPSLLNDNRDVLDNTTTNKYWIDVQLRFGDYDSHDIERYTRAKFLDYSTDAQSMYPSPTGVLIGIDLCYNMHSAYGNWIPGMKPLIQQSMNKIMKANPALYVLRERIRKGLQLYASEPQEQYLSSSNYAELFSNQIQLFVDDTNVYRVTIHKTFEGNLTTKPINGAIFIFNPRTGQLFLKVIHTSVWAGQKRLGQLAKWKTAEEVAALIRSLPVEEQPRQIIVTRKGMLDPLEVHLLDFPNITIKGSELQLPFQAIIKLDKINDLILRATEPQMVLFNLYDDWLQSVSSYTAFSRLILILRALNVNTEKTKLILRPDKSIITKENHVWPNLDDQQWLDVEPKLRDLILADYAKKNNINVASLTNSEVRDIILGMTITAPSLQRQQIAEIEKQGRENAQVTAVTTKTTNVHGDEMVVTTTSAYENEKFSSKTEWRNRAISSISLPLRTKNIYVNSDNISETFPYTYILPQNLLRKFVTISDLRTQVAGYMYGKSPSDNPQIKEIRCIALVPQLGSIRNVQLPSKLPHDLQPSILEDLEPLGWIHTQSSELPYLSSVDVTTHAKILSSHPEWDTKAVTLTVSYIPGSISLAAYTVSKEGIEWGSKNMDINSDEAIGYEPSMAEKCQLLLSDRIQGFFLVPEEGVWNYNFNGASFSPKMTYSLKLDVPLPFFALEHRPTHVISYTELETNDRLEEDMPDAFA |
| 4114 | sp|Q6QGW5|SRA1\_RAT | MTCCPAGGAEVEMAELYVKPGNKERGWNDPPQFSYGLQTQTGGTKRTPLTKRVAAPQDGSPRAPETSGPPPVDHPPPSSKASRPPPMGSCPASGVDPPSSPVIESETLIEDVLRPLEQALEDCRGHTKQVCDDISRRLALLHEQWDGGKLSVPVKKRMALLVQELLHHQWDTADDIHRSLMVDHVTEVSQWMVGVKRLIAEKRSLSSEENKEEKSTVAPENQTIPGFQPSS |
| 4115 | sp|O01498|STAM1\_CAEEL | MKKQKSFPMSAYEDLLGKITAPTITVENWEGILAFCDMINNDFEGSKTGIKSLRKRLNNRDPHVVLLAISVLDSCWANCEERFRKEVSSAQFINELKALCTSSQRQVAEKMRLTVQKWVDTECKTEQSLSLIVTLHKNLVADGYSFVVDDPKSKTKAIDAKFANDPNYVGSAQEEEAIAKAIAASLADAEKQEKAKKSTSTMYPSAKASSPAVQTNSNIPEKNVRALYDFEAAESNELSFVAGDIITITDESNPHWWTGRIGTQQGLFPSSFVTNQLDDLKSKETDSSQKAPEVVASINEAILVRCLQVLHECDPTGERQDPEDLAQLEAASYAQGNLIDAHLASIDRQSNSLAQIDVAIRDVLALYDDAIQKGGFQHQSQGMYQQPMQQYNYQQPPNRAYYPPTGPVQQQQPQQYPPQHYPAPGAQPQYACPPNSVPQPQQQQQQWPAPSSQPQQY |
| 4116 | sp|P61264|STX1B\_MOUSE | MKDRTQELRSAKDSDDEEEVVHVDRDHFMDEFFEQVEEIRGCIEKLSEDVEQVKKQHSAILAAPNPDEKTKQELEDLTADIKKTANKVRSKLKAIEQSIEQEEGLNRSSADLRIRKTQHSTLSRKFVEVMTEYNATQSKYRDRCKDRIQRQLEITGRTTTNEELEDMLESGKLAIFTDDIKMDSQMTKQALNEIETRHNEIIKLETSIRELHDMFVDMAMLVESQGEMIDRIEYNVEHSVDYVERAVSDTKKAVKYQSKARRKKIMIIICCVVLGVVLASSIGGTLGL |
| 4117 | sp|Q9H5I1|SUV92\_HUMAN | MAAVGAEARGAWCVPCLVSLDTLQELCRKEKLTCKSIGITKRNLNNYEVEYLCDYKVVKDMEYYLVKWKGWPDSTNTWEPLQNLKCPLLLQQFSNDKHNYLSQVKKGKAITPKDNNKTLKPAIAEYIVKKAKQRIALQRWQDELNRRKNHKGMIFVENTVDLEGPPSDFYYINEYKPAPGISLVNEATFGCSCTDCFFQKCCPAEAGVLLAYNKNQQIKIPPGTPIYECNSRCQCGPDCPNRIVQKGTQYSLCIFRTSNGRGWGVKTLVKIKRMSFVMEYVGEVITSEEAERRGQFYDNKGITYLFDLDYESDEFTVDAARYGNVSHFVNHSCDPNLQVFNVFIDNLDTRLPRIALFSTRTINAGEELTFDYQMKGSGDISSDSIDHSPAKKRVRTVCKCGAVTCRGYLN |
| 4118 | sp|O95210|STBD1\_HUMAN | MGAVWSALLVGGGLAGALFVWLLRGGPGDTGKDGDAEQEKDAPLGGAAIPGGHQSGSSGLSPGPSGQELVTKPEHLQESNGHLISKTKDLGKLQAASWRLQNPSREVCDNSREHVPSGQFPDTEAPATSETSNSRSYSEVSRNESLESPMGEWGFQKGQEISAKAATCFAEKLPSSNLLKNRAKEEMSLSDLNSQDRVDHEEWEMVPRHSSWGDVGVGGSLKAPVLNLNQGMDNGRSTLVEARGQQVHGKMERVAVMPAGSQQVSVRFQVHYVTSTDVQFIAVTGDHECLGRWNTYIPLHYNKDGFWSHSIFLPADTVVEWKFVLVENGGVTRWEECSNRFLETGHEDKVVHAWWGIH |
| 4119 | sp|P0DMM9|ST1A3\_HUMAN | MELIQDTSRPPLEYVKGVPLIKYFAEALGPLQSFQARPDDLLINTYPKSGTTWVSQILDMIYQGGDLEKCNRAPIYVRVPFLEVNDPGEPSGLETLKDTPPPRLIKSHLPLALLPQTLLDQKVKVVYVARNPKDVAVSYYHFHRMEKAHPEPGTWDSFLEKFMAGEVSYGSWYQHVQEWWELSRTHPVLYLFYEDMKENPKREIQKILEFVGRSLPEETMDFMVQHTSFKEMKKNPMTNYTTVPQELMDHSISPFMRKGMAGDWKTTFTVAQNERFDADYAEKMAGCSLSFRSEL |
| 4120 | sp|P50569|STF1\_RAT | MDYSYDEDLDELCPVCGDKVSGYHYGLLTCESCKGFFKRTVQNNKHYTCTESQSCKIDKTQRKRCPFCRFQKCLTVGMRLEAVRADRMRGGRNKFGPMYKRDRALKQQKKAQIRANGFKLETGPPMGVPPPPPPPPDYMLPPSLHAPEPKALVSGPPSGPLGDFGAPSLPMAVPGPHGPLAGYLYPAFSNRTIKSEYPEPYASPPQQPGPPYSYPEPFSGGPNVPELILQLLQLEPEEDQVRARIVGCLQEPAKSRPDQPAPFSLLCRMADQTFISIVDWARRCMVFKELEVADQMTLLQNCWSELLVLDHIYRQVQYGKEDSILLVTGQEVELSTVAVQAGSLLHSLVLRAQELVLQLHALQLDRQEFVCLKFLILFSLDVKFLNNHSLVKDAQEKANAALLDYTLCHYPHCGDKFQQLLLCLVEVRALSMQAKEYLYHKHLGNEMPRNNLLIEMLQAKQT |
| 4121 | sp|Q6WNK7|SUS1\_YEAST | MTMDTAQLKSQIQQYLVESGNYELISNELKARLLQEGWVDKVKDLTKSEMNINESTNFTQILSTVEPKALEMVSDSTRETVLKQIREFLEEIVDTQ |
| 4122 | sp|O75486|SUPT3\_HUMAN | MNNTAASPMSTATSSSGRSTGKSISFATELQSMMYSLGDARRPLHETAVLVEDVVHTQLINLLQQAAEVSQLRGARVITPEDLLFLMRKDKKKLRRLLKYMFIRDYKSKIVKGIDEDDLLEDKLSGSNNANKRQKIAQDFLNSIDQTGELLAMFEDDEIDEVKQERMERAERQTRIMDSAQYAEFCESRQLSFSKKASKFRDWLDCSSMEIKPNVVAMEILAYLAYETVAQLVDLALLVRQDMVTKAGDPFSHAISATFIQYHNSAESTAACGVEAHSDAIQPCHIREAIRRYSHRIGPLSPFTNAYRRNGMAFLAC |
| 4123 | sp|Q8BJS4|SUN2\_MOUSE | MSRRSQRLTRYSQDDNDGGSSSSGASSVAGSQGTVFKDSPLRTLKRKSSNMKHLSPAPQLGPSSDSHTSYYSESVVRESYIGSPRAVSLARSALLDDHLHSEPYWSGDLRGRRRRGTGGSESSKANGLTAESKASEDFFGSSSGYSSEDDLAGYTDSDQHSSGSRLRSAASRAGSFVWTLVTFPGRLFGLLYWWIGTTWYRLTTAASLLDVFVLTRSRHFSLNLKSFLWFLLLLLLLTGLTYGAWHFYPLGLQTLQPAVVSWWAAKESRKQPEVWESRDASQHFQAEQRVLSRVHSLERRLEALAADFSSNWQKEAIRLERLELRQGAAGHGGGSSLSHEDALSLLEGLVSRREATLKEDLRRDTVAHIQEELATLRAEHHQDSEDLFKKIVQASQESEARVQQLKTEWKSMTQEAFQESSVKELGRLEAQLASLRQELAALTLKQNSVADEVGLLPQKIQAARADVESQFPDWIRQFLLGDRGARSGLLQRDEMHAQLQELENKILTKMAEMQGKSAREAAASLGQILQKEGIVGVTEEQVHRIVKQALQRYSEDRIGMVDYALESGGASVISTRCSETYETKTALLSLFGIPLWYHSQSPRVILQPDVHPGNCWAFQGPQGFAVVRLSARIRPTAVTLEHVPKALSPNSTISSAPKDFAIFGFDEDLQQEGTLLGTFAYDQDGEPIQTFYFQASKMATYQVVELRILTNWGHPEYTCIYRFRVHGEPAH |
| 4124 | sp|Q9Y2H1|ST38L\_HUMAN | MAMTAGTTTTFPMSNHTRERVTVAKLTLENFYSNLILQHEERETRQKKLEVAMEEEGLADEEKKLRRSQHARKETEFLRLKRTRLGLDDFESLKVIGRGAFGEVRLVQKKDTGHIYAMKILRKSDMLEKEQVAHIRAERDILVEADGAWVVKMFYSFQDKRNLYLIMEFLPGGDMMTLLMKKDTLTEEETQFYISETVLAIDAIHQLGFIHRDIKPDNLLLDAKGHVKLSDFGLCTGLKKAHRTEFYRNLTHNPPSDFSFQNMNSKRKAETWKKNRRQLAYSTVGTPDYIAPEVFMQTGYNKLCDWWSLGVIMYEMLIGYPPFCSETPQETYRKVMNWKETLVFPPEVPISEKAKDLILRFCIDSENRIGNSGVEEIKGHPFFEGVDWEHIRERPAAIPIEIKSIDDTSNFDDFPESDILQPVPNTTEPDYKSKDWVFLNYTYKRFEGLTQRGSIPTYMKAGKL |
| 4125 | sp|O43704|ST1B1\_HUMAN | MLSPKDILRKDLKLVHGYPMTCAFASNWEKIEQFHSRPDDIVIATYPKSGTTWVSEIIDMILNDGDIEKCKRGFITEKVPMLEMTLPGLRTSGIEQLEKNPSPRIVKTHLPTDLLPKSFWENNCKMIYLARNAKDVSVSYYHFDLMNNLQPFPGTWEEYLEKFLTGKVAYGSWFTHVKNWWKKKEEHPILFLYYEDMKENPKEEIKKIIRFLEKNLNDEILDRIIHHTSFEVMKDNPLVNYTHLPTTVMDHSKSPFMRKGTAGDWKNYFTVAQNEKFDAIYETEMSKTALQFRTEI |
| 4126 | sp|Q6ZWQ0|SYNE2\_MOUSE | MAASPVLPTEDGEGFLGIDDLHFSLQAEQEDTQKKTFTCWINSQLAKHTPPSVVSDLFADIKKGHVLLDLLEVLSGQQLPRDKGSNTFQCRINIEHALTFLKNRSIKLINIHVADIVEGNPSIILGLIWTIILHFHIEKLAQTLSCDYNQPSPEVVSVAASSPTSSPPTKKCSKAQAQARWQWSAKKALLQWAQEQCARSESVNVTDFKSSWRNGMAFLAVIHALRPDLIDMDSMRHRSNKDNLKEAFRIAEHELKIPKLLEPEDVDVVNPDEKSIMTYVAQFLKYSKDAPGPGDSTQAKVRDALVWLTLQEKRFQKMLKDSASETYCNKYHSLLSFMESLNEEKESFIDVLSLKGRMGELNEDESRLRQGWTSLMHQVAAWRAQLDDALPSPLKETEAWLKDIEGVVQEGVPTSQSYSEARTLIQGKLSSFKSLMGSFDYHSDVLMAFQSNAEKSLPAVPPVKLEEMTRRINNVLGKNFIPLLEFHDSKCSVLALLDEAKAKLDVWNGTYESKESVEVLLEDWHKFTGEKKFLIQLDASFQKCEEMYKNSARECESIREEYMMLEKNVHSCRQYIHNTKATLQRALMSWATFEEDLALLKASFDLTKKEQIKEVPVETLLQWNTKHTSLNEVGSFLIGVSSREVAASISKELRRLNKRWRKFITKTPLLKLPLVKIQDQPPGNSSGTSLSKESAMAAEPGGSRGEDVKAAEKQEVEDEESAGQLKVNEEVEGLIKQVTIWESQTKSILDLLQHGDHADGSSADTLQHLIAKGSVYEELLARTEDTLQMDVQSPSNLEPFQNVLRAGLQAKIQEAKQGVQITMVELSAVLKNLSDEPLELDLGLKVEEAQKELEVSILRAEQLLGQRERPGGFLLKYKEALEILNTNSLAKYLRAVEELKRTVPGGAKLQLEEQSRVASAKWEPLRHEISLYLQQLKIAIEEEKLRDNIARLEKQINKEKKLIRRGRTRGLRKEHEACLSPESIKCQLEHHVGVLRVLCEELTSPEDQQELKRALRDYEQKIARLLKCASEIHTTLQSSQGGALEERSALITTENGRRDADGEVPLEIPDNQLSTEKAMEPIKNFSQTSELKPQQEESIMEKEGKDCSASLSDLQERYDTQRGLLEQHLQDSKSRVTSDFASEQERSSACLQSKLAELQVLLADTDAHWEKFEITSLNLRRLMSDAEKPVLNQERDLLKGNEQVLHGLLNTRMESLEMALQIVLPLEKECSLLCASDLPLCTVAVQDLHPVEIDGVYQNLRDIRDSIAKQIRVCTSLEEPSNSVPRELHTLDQCAIQDIVLKCRLQLETMNQKVEMREDALDALEGFLASLRAAKLSAELPADRPAPKAPEVLSEDILLMKEKAGPLDERLRTLGINIKDAEGGENTTCERLVGALSVNLVAMDGQSKEEGPPEDKKLLEACSSKNLELFKNIQDLQNQISKIGLKDPTAPAVKHRKKSLLRLDKDLDGLEEEKVRIQKIAGSLPRFKDGSEKNVIQQCEDTAALWESTKASVTESLEQCGSALELLRQYQNIKNNLTALIQKEEGIISQQASYMGKDNLKKKIAEIETVKEEFSDHLEVVDKINQICKNLQYHLNKMKTFEDPPFEKEANAIVDRWLDINEKTEEYGENLGRALALWDKLFIIKNNIDEWTEQILGKAESHELTEEDRGRLKEELKVLEEQSAEFSRRVADIQSLLQSNEKPLELQVMESSVLSKMKDVKTHVAGGSNSYAPSGSTAELREDLDQAKTQMGMTESLLNALSPSDSLEIFTKLEEIQQQIFQQKHSMTVLENQIGCLTPELSELKRQYASVSNLFNTKKNALQDHFATFLNEQCKNFNDWFSNVKTNLQECFEPPETKLSLEQRLQKLSDFLTLGGGNSKIQQVETVLQHVKMLLPKAHVKELDSWLRSQELELENMESICQARAGELNNSFQQLLRLEDDCRSLSKWLTNQEENWGKMEVSGERMDLFSQALTRKREQFETVAQLSDSLKEHGLTEGEETIKESTHLIDRYQALWRQLHEIEEEDKLPAAEDQSFNDLADDVIHWIKEIKESLMALNSSEGKMPLEERIQKIKEIIALKPEGDAKIQMVMRQAEHCEAPLAQETFTDLSNQWDSTLHLANTYLSHQEKLVLEGEKYLQSKEDLRLMLTELKKQQEAGFALQPGLPEKQAQLKIYKKFLQKAQDLTSLLEELKSQGNYLLECTKNPSFSEEPWLEVKHLHESLLQQLQDSVQKLEGHVQEHSSYQVCLTDLSSTLDDISKEYFSLCDGSKDQIMAKERMQKLQELESRLRFQGGALKKASALAKSIKQNTSSVGQKIIKDDIRSLKYKQKDLENRIESAKQETENGLNSILKSKSSTEKHVKFSLPVEEMPATSEVPKPTRESAAVGESGGARETNTNSAVEMILSKQLSLNVQESMQNAQDEREVNELQNQPLELDIMLRNEQLKGMEELSTHLEARRAAIELLEQSQHLNQTEEQALVLPAARPSVCHLGSLQQELHTLKKTKERQYGLLSGFQDQLVMAEASLNTSLAEVESLKIGSLDSATYLGKIKKFLGSVENQQGSLSKLRTEWAHLSSLLAAADQKLVESQMKHLEHGWELVEQLAHRKCFQQATEHSELTCLLEKLQDLKVSLHQQQQRLTLSLNSPGQQAAIVDMVTPAAELQAIKCEFSGLKWQAELHMKRLWGEKDKKTLEDAINNLNKQMEALEPLNREVENRIKKCELQNRIKETLSWVKNTMAELVVPIALLPDNILSQIRKCKLIHDGILGNQQAVELLVEEVRGITPSLAPCEGDGLNALLEDLQSQHQALLLKSTERSQQLELKLEEKSKLFAIIGKVQLTLEESETLMSPTGDRASTEAELERRLAILKASQQQLQDTESALSAHLQELTNAYKDANVFERLFLDDQLKNLKARTNRTQRFLQNNGSELKQKMESYREFHDKAAVLQKEAECILHGGLLPLRQELEQDAKEQLGNLRDKLAAIRGSLSQVLTSEEVFDTIGLSWDGSLLARLQTQVLEREREVEGKIKQLDTFLIARDRHQASISKIRAVDLQIKKGAESLLKVPSMSPESTLLNAQTLIQKIEKSKRLRDEIIRKLSKNEAFDDSFKESEMQRLKLCAEENSRLQEALQNMLLELQPREMGEKEFREKLENALHVLKQIQSRLQQPLCVNLGVQHIQHEKETWEAFGEQVEAEMCGLRAVRITEEQREENDSGTGGMEAKLRDIEGLHMELSKSISLRADVLNDAYDSANRYDELVAGALRIITSLEATLLSYRVDLHNPQKTLELAHLKQEELQSSVADLRSLTETLGAISSPEAKEQLRCTLEVLAAKNSALKAGLEAQEAEEERCLENYKCFRKMKEEICSRLRKMEMDLGQSIFPLPRSYKEALARLEQSKALTSNLLSTKEDLVKLRQLLRHLRCRSTENDATCALGVASALWEKWLSLLEAAREWQQWGGELKREWKFISEEIEREAIILETLQEDLPEISKTNAAPTEELWQLLDSLCQHQESVEKQQLLLALLLQRVRSIQNIPEGTETGETIPALQEIGSMQERCDRLLHTTRKNKDLVQAEIQAQQSFLKEIKDVKRVFEQISTSFPNLAPEGHPERAEQFEELRSILQKGKLSFENIMEKLRIKYSEMYSIVPAEIGSQVEECRSALEDAEEKMSSEVSKSSPSSIMRRKIERINNGLHCVEKMLQQKSRNIEEAHEIQKKIWDELDLWHSKLNELDSEVQDFVEQDPGQAQEWMDNLMAPFQQHQQVSQRAESRTSQLNKATIKMEEYNDLLKSTEVWIEKTSCLLANPACYDSSRTLSHRASTLQMALEDSEQKHSLLHSIFTDLEDLSIIFETDDLIQTIHELSDQVAALQQQIMEALPHVQQVADDVVAIESEVKAMEKKVAKIKAILLSKEIFDFPPEEHLKHGEVILENIHPMKKTIAEIMTYQVELRLPQTGTKPLPVFQRTSQLLQDVKLLENVTQEQNELLKVVIKQTAECDEEIDSLKQMLTNYSAEISPEHVSQNQVADLPSLQGEMERLEKQILNLNQKKEDLLVDLKTAVLNLHEHLKQEQQEVGDKPSAGASECTVAERDASERKLSRTNSMSFLPVVKEEAEESSVKSEDGRRRTEPPSASWSFLGKHSKDLEGDGASSSSSATIVQDADGRISTCDSSMVHIIAPDSGSTEEGPAPSPRLSQTDEGATPPIEAALLDFPREQGAFESTVERSRPRPADILRVCKTQVAKLELWLQQANVAFEPETVDADMQQVVEEELAGCQAMLTEIEYKVASLLETCKDQGLGDCGTTQQEAEALSWKLKTVKCNLEKVQMVLQEKFSEDQHPSTLKKPSEPHDVDQPAGLSELDSVLTERPQFSRQKDAPQPQILELKPSEQKDLIKFTELNAKKTWLQGHQENEDANRQSASSSKVPSPGNAASDSTLPLQAQSGDKWQYLHHELTSRPNPSVPQLVEPQVALTTSTLPSVSVYNFRCPTADELQAYTTQLEELRQEANTIQTQGSMTEETYISLDKRLFELFLSLSRCLGSVEGLLQRPGLLREDACAQQVFFQKLALELKKLYLALGDKKDDFLKAVTWPGKEATLLPECIDALTVSLESVQSRAAWRDASLKAGLEHSRSYQNEVKRLYSQLIKKKTALQQSLNEISGQSISKQLQKADVHTAELQNSEKQVAKLRDEGERLRFPHGLLQDVYKLEDVLDSMWGILRARYLELSSPFLSKSLQTLLQGMAELVSIGKGKLAADPLQHAKSKAALQAQLQDHKAFFQKLVADMLLIQTYSATMFPPSLQKGEGFGAEQVAEVRALEEEACLRGAQLQSMLQKWEEFDDNYASLEKDLEALISSLPSVSLVEETEERLLERISFYQQIKRNIDGKHARLCQTLNEGRQLAASVSCPEPEGQIARLEEQWLSLNKRIDQELHRLQTLLKHLLSYSRDSDELTRWLETSQQTLNYWKEQSLNVSQDLNTIRSNIDRFFKFSKEVDERSSLKSAVMSTGNQLLHLKEADTATLRASLAQFEQKWTVLITQLPDIQEKLHQLQMEKLPSREAISEMISWMNAVEPQAAGKDTELSKSSASQVKHLLQKLKEFRMEMDYKQWVVDFVNQSLLQLSTCDVESKRYERTEFAEHLGEMNRQWQRVHGTLNRKIQHLEQLLESITENENKVQNLNSWLEAQEERLKMLQKPESAVSMEKLLLDCQDIENQLALKSKALDELRQSSLTMDGGDVPLLEDMASGIVELFQKKNNVTSQVHQLRASVQSVLQEWKACDKLYDEATMRTTQLTYSMEHSKPAVLSLQALACQVQNLEALQDEAENGERSWEKLQEVIGRLKASCPSMAGIIEEKCQDAHSRWTQVNQDLADQLQEARGQLQLWKAPHNAHAEAAAWLQQQEAKFQQLANTNLSGDNLADILPRALKDIKGLQSDLQKTKEAFLENSTLSDQLPQPEERSTPGLHSGQRHSLQTAAYLEKMLLAKSNEFEIVLAQFKDFTDRLAYSKDLIVHKEENLNKLYHEEKEEVPDLFLNHVLALTAQSPDIERLNEESLRLPLSDVTIKTLQSLNRQWIRATATALDHYSELQGNGLNEKFLHYCERWIQVLEKIQESLSVEVAHSLPALLEQQKTYEILEAEVSTNQAVADAYVTQSLQLLDTAEIEKRPEFVSEFSKLSDQWQRAARGVRQRKCDISRLVTQWRFFTTSVEDLLRFLADTSQLLSAVKEQDCYSLCQTRRLVHELKSKEIHLQRWRTTYALALEAGEKLRNTPSPETREFVDGQISRLQESWKDTELSLGEVISRLQSTAETWDQCKKKIKKLKKRLQALKAQSEDPLPELHEALHEEKELIKEVEKSLANWTHSLKELQTMKADLSQHILAEDVTVLKEQIQLLHRQWEDLCLRVAIRKQEIEDRLNSWIVFNEKNKELCAWLVQMENKVLQTADVSIEEMIEKLQKDCMEEISLFTENKLQLKQMGDQLIKASSKAKAAELEEKLSKINDRWQHLFDVIGSRVKKLKETFAFIQQLDKNMSNLRTWLARIESELSKPVVYDVCDNQEIQKRLAEQQDLQRDIEQHSAGVESVFNICDVLLHDSDACANETECDSIQQTTRSLDRRWRNICAMSMERRMKIEETWRLWQKFLDDYSRFEDWLKSAERTAACPNSSEVLYTNAKEELKRFEAFQRQIHERLTQLELINKQYRRLARENRTDTASKLKQMVHEGNQRWDNLQKRVTAILRRLRYFTNQREEFEGTRESILVWLTEMDLQLTNVEHFSESDAEDKMRQLNGFQQEITLNTNKIDQLIVFGEQLIQKSEPLDAVLIEDELEELHRYCQEVFGRVSRFHRRLTSHTPGLDDEKEASENETDIEDPREIQADSWRKRRESEEPTSPQSLCHLVPPALGHERSGCETPVSVDSIPLEWDHTGDVGGSSSHEDDEEGPFYSALSGKSISEGHPWHVPDSPSHSKHHYKHMEGDRTEAPVPTDASTPFKSDYVKLLLRQGTDDSKEGLKEAQQEDEQLATLTGQQPGAFDRWELIQAQELHSKLRLKQTVQQLKSDIGSIAAWLGKTEAELEALKLAEPPSDIQEIALRVKRLQEILKAFDTYKALMVSVNVSHKEYLPSQSPEATELQNRLHQLSLSWDSVQGVLDSWRGDLRQSLMQCQDFHQLSQDLLLWLATAESRRQKAHVTSPEADRQVLLECQKDLMRLEKELVARQPQVSSLREISSSLLVKGQGEDYIEAEEKVHVIEKKLKQLQEQVAQDLMSLQRSLDPDASLTSFDEVDSGEQLPAAFAKSPRPRWTFLEEEEEEEETDSRMPHLDSPGSSQPRRSFLSRVIRAALPLQLLLLLLLLLACLLPASEDDYSCTQANNFARSFYPMLRYTNGPPPT |
| 4127 | sp|Q9PVX8|STA31\_XENLA | MAQWNQLQQLDTRYLEQLHQLYSDSFPMELRQFLAPWIESQDWAFAASKESHATLVFHNLLGEIDQQYSRFLQESNVLYQHNLRRIKQFLQSRYLEKPMEIARIVARCLWEEGRLLQTAAAAAQQGGPASHPNAAVVTEKQQMLEQHLQDVRKKVQDLEQKMKVVENLQDDFDFNYKTLKSQSDLSELNGNNQSVTRQKMQQLEQMLTALDQLRRTIISDLASLLSAMEYVQKTLTDEELADWKRRQQIACIGGPPNICLDRLENWITSLAESQLQIRQQIKKLEELQQKVSYKGDPIVQHRPMLEERIVELFRNLMKSAFVVERQPCMPMHPDRPLVIKTGVQFTNKVRLLVKFPELNYQLKIKVCIDKDSGDVAALRGSRKFNILGTNTKVMNMEESNNGSLSAEFKHLTLREQRCGNGGRANCDASLIVTEELHLITFETEVYHQGLKIDLETHSLPVVVISNICQMPNAWASILWYNMLTNNPKNVNFFTKPPIGTWDQVAEVLSWQFSSTTKRGLSIEQLTTLAEKLLGPGVNYSGCQITWAKFCKENMAGKGFSFWVWLDNIIDLVKKYILALWNEGYIMGFISKERERAILSTKPPGTFLLRFSESSKEGGITFTWVEKDISGKTQIQSVEPYTKQQLNNMSFAEIIMGYKIMDATNILVSPLVYLYPDIPKEEAFGKYCRPESQEHQEPTDPGSTAPYLKTKFICVTPTTCSSTLDLPMSPRTLDSLMQFPGEGADSSAGNQFETLTFDMELTSECASSPM |
| 4128 | sp|Q80U70|SUZ12\_MOUSE | MAPQKHGGGGGGGSGPSAGSGGGGFGGSAAAVAAAASGGKSGGGGCGGGGSYSASSSSAAAAAAAAGAAVLPVKKPKMEHVQADHELFLQAFEKPTQIYRFLRTRNLIAPIFLHRTLTYMSHRNSRTSIKRKTFKVDDMLSKVEKMKGEQESHSLSAHLQLTFTGFFHKNDKPSQNSENEQNSVTLEVLLVKVCHKKRKDVSCPIRQVPTGKKQVPLNPDLNQTKPGNFPSLAVSSNEFEPSNSHMVKSYSLLFRVTRPGRREFNGMINGETNENIDVSEELPARRKRNREDGEKTFVAQMTVFDKNRRLQLLDGEYEVAMQEMEECPISKKRATWETILDGKRLPPFETFSQGPTLQFTLRWTGETNDKSTAPVAKPLATRNSESLHQENKPGSVKPAQTIAVKETLTTELQTRKEKDNSNESRQKLRIFYQFLYNNNTRQQTEARDDLHCPWCTLNCRKLYSLLKHLKLCHSRFIFNYVYHPKGARIDVSINECYDGSYAGNPQDIHRQPGFAFSRNGPVKRTPITHILVCRPKRTKASMSEFLESEDGEVEQQRTYSSGHNRLYFHSDTCLPLRPQEMEVDSEDEKDPEWLREKTITQIEEFSDVNEGEKEVMKLWNLHVMKHGFIADNQMNHACMLFVENYGQKIIKKNLCRNFMLHLVSMHDFNLISIMSIDKAVTKLREMQQKLEKGESATPSNEEIAEEQNGTANGFSETNSKEKALETDGVSGVPKQSKKQKL |
| 4129 | sp|Q62277|SYPH\_MOUSE | MLLLADMDVVNQLVAGGQFRVVKEPLGFVKVLQWVFAIFAFATCGSYTGELRLSVECANKTESALNIEVEFEYPFRLHQVYFDAPSCVKGGTTKIFLVGDYSSSAEFFVTVAVFAFLYSMGALATYIFLQNKYRENNKGPMMDFLATAVFAFMWLVSSSAWAKGLSDVKMATDPENIIKEMPMCRQTGNTCKELRDPVTSGLNTSVVFGFLNLVLWVGNLWFVFKETGWAAPFMRAPPGAPEKQPAPGDAYGDAGYGQGPGGYGPQDSYGPQGGYQPDYGQPASGGGGGYGPQGDYGQQGYGQQGAPTSFSNQM |
| 4130 | sp|Q9TVY6|SPE9\_CAEEL | MNVILVLVVLFFAGDCAKIRKIIDFLEKDAPNDIEKTPNYNEESLAVKRNKNFNPCLENPKICSNRGKCLHENGNFYCICPVTHYGKTCEHVSDQTNCEKHLCQNNSTCVSIKSLRTIVNTVLLRQIRVQRKVNGSKAALTNEELAEIDLEVNYECICQKGYFGGLCDESEADRTCQEVYCLGRGKGAINATGKCECECENQFFGDRCEQISACFDTQCDNGGICEDVVDWKTKTVTATCKCPSAIELIGGTVTGENCETLQIPSTAPKEFIPCAEGSNSTMFFKKFIANISLEYMDDISELEAIKNDYNDGKNVNGTMTDGWCRNDGKCVPEVVRVNSSRAYYIYRCECTNPLTDGYYCEYKRHDSCSLTREEVARGDRWDEKCTDSQHGACVDISGVAHCVCKPDYTGEKCEIFDPCARQPCKHGDCIPIPNTADVAFGTSRYQCLCPLSAKLNPESQACMEINEKKCAPGACGNGRCVPCESDADDLMPLCNDNDNRQGFRCLCEAGYLPPFCKVHTNPCYQNLCQNSATCHIDPKQRSYDCQCVNGTRGSLCENVDDSCDAFGNKICVHGTCINDEYFHRGFSCECDDGFEGLDCNVEIAWSSVMTNRLMKNYEFSLPLVACFVSLAILLPVIVISRRRQGRVEEAKKTSEVKTENP |
| 4131 | sp|Q9P2J5|SYLC\_HUMAN | MAERKGTAKVDFLKKIEKEIQQKWDTERVFEVNASNLEKQTSKGKYFVTFPYPYMNGRLHLGHTFSLSKCEFAVGYQRLKGKCCLFPFGLHCTGMPIKACADKLKREIELYGCPPDFPDEEEEEEETSVKTEDIIIKDKAKGKKSKAAAKAGSSKYQWGIMKSLGLSDEEIVKFSEAEHWLDYFPPLAIQDLKRMGLKVDWRRSFITTDVNPYYDSFVRWQFLTLRERNKIKFGKRYTIYSPKDGQPCMDHDRQTGEGVGPQEYTLLKLKVLEPYPSKLSGLKGKNIFLVAATLRPETMFGQTNCWVRPDMKYIGFETVNGDIFICTQKAARNMSYQGFTKDNGVVPVVKELMGEEILGASLSAPLTSYKVIYVLPMLTIKEDKGTGVVTSVPSDSPDDIAALRDLKKKQALRAKYGIRDDMVLPFEPVPVIEIPGFGNLSAVTICDELKIQSQNDREKLAEAKEKIYLKGFYEGIMLVDGFKGQKVQDVKKTIQKKMIDAGDALIYMEPEKQVMSRSSDECVVALCDQWYLDYGEENWKKQTSQCLKNLETFCEETRRNFEATLGWLQEHACSRTYGLGTHLPWDEQWLIESLSDSTIYMAFYTVAHLLQGGNLHGQAESPLGIRPQQMTKEVWDYVFFKEAPFPKTQIAKEKLDQLKQEFEFWYPVDLRVSGKDLVPNHLSYYLYNHVAMWPEQSDKWPTAVRANGHLLLNSEKMSKSTGNFLTLTQAIDKFSADGMRLALADAGDTVEDANFVEAMADAGILRLYTWVEWVKEMVANWDSLRSGPASTFNDRVFASELNAGIIKTDQNYEKMMFKEALKTGFFEFQAAKDKYRELAVEGMHRELVFRFIEVQTLLLAPFCPHLCEHIWTLLGKPDSIMNASWPVAGPVNEVLIHSSQYLMEVTHDLRLRLKNYMMPAKGKKTDKQPLQKPSHCTIYVAKNYPPWQHTTLSVLRKHFEANNGKLPDNKVIASELGSMPELKKYMKKVMPFVAMIKENLEKMGPRILDLQLEFDEKAVLMENIVYLTNSLELEHIEVKFASEAEDKIREDCCPGKPLNVFRIEPGVSVSLVNPQPSNGHFSTKIEIRQGDNCDSIIRRLMKMNRGIKDLSKVKLMRFDDPLLGPRRVPVLGKEYTEKTPISEHAVFNVDLMSKKIHLTENGIRVDIGDTIIYLVH |
| 4132 | sp|P56206|SYG\_THET8 | MPASSLDELVALCKRRGFIFQSSEIYGGLQGVYDYGPLGVELKNNLKQAWWRRNVYERDDMEGLDASVLTHRLVLHYSGHEATFADPMVDNRITKKRYRLDHLLKEQPEEVLKRLYRAMEVEEENLHALVQAMMQAPERAGGAMTAAGVLDPASGEPGDWTPPRYFNMMFKTYVGPVEDEASLAYLRPETAQGIFVNFKNVLDATSRKLPFGIAQIGKAFRNEITPRNFIFRVREFEQMEIEYFVRPGEDEYWHRYWVEERLKWWQEMGLSRENLVPYQQPPEELAHYAKATVDILYRFPHGLEELEGIANRTDFDLGSHTKDQEALGITARVLRNEHSTQRLAYRDPETGKWFVPYVIEPSAGVDRGVLALLAEAFTREELPNGEERIVLKLKPQLAPIKVAVIPLVKNRPEITEYAKRLKARLLALGLGRVLYEDTGNIGKAYRRHDEVGTPFAVTVDYDTIGQSKDGTTRLKDTVTVRDRDTMEQIRLHVDELEGFLRERLRW |
| 4133 | sp|P52657|T2AG\_HUMAN | MAYQLYRNTTLGNSLQESLDELIQSQQITPQLALQVLLQFDKAINAALAQRVRNRVNFRGSLNTYRFCDNVWTFVLNDVEFREVTELIKVDKVKIVACDGKNTGSNTTE |
| 4134 | sp|Q00403|TF2B\_HUMAN | MASTSRLDALPRVTCPNHPDAILVEDYRAGDMICPECGLVVGDRVIDVGSEWRTFSNDKATKDPSRVGDSQNPLLSDGDLSTMIGKGTGAASFDEFGNSKYQNRRTMSSSDRAMMNAFKEITTMADRINLPRNIVDRTNNLFKQVYEQKSLKGRANDAIASACLYIACRQEGVPRTFKEICAVSRISKKEIGRCFKLILKALETSVDLITTGDFMSRFCSNLCLPKQVQMAATHIARKAVELDLVPGRSPISVAAAAIYMASQASAEKRTQKEIGDIAGVADVTIRQSYRLIYPRAPDLFPTDFKFDTPVDKLPQL |
| 4135 | sp|P55072|TERA\_HUMAN | MASGADSKGDDLSTAILKQKNRPNRLIVDEAINEDNSVVSLSQPKMDELQLFRGDTVLLKGKKRREAVCIVLSDDTCSDEKIRMNRVVRNNLRVRLGDVISIQPCPDVKYGKRIHVLPIDDTVEGITGNLFEVYLKPYFLEAYRPIRKGDIFLVRGGMRAVEFKVVETDPSPYCIVAPDTVIHCEGEPIKREDEEESLNEVGYDDIGGCRKQLAQIKEMVELPLRHPALFKAIGVKPPRGILLYGPPGTGKTLIARAVANETGAFFFLINGPEIMSKLAGESESNLRKAFEEAEKNAPAIIFIDELDAIAPKREKTHGEVERRIVSQLLTLMDGLKQRAHVIVMAATNRPNSIDPALRRFGRFDREVDIGIPDATGRLEILQIHTKNMKLADDVDLEQVANETHGHVGADLAALCSEAALQAIRKKMDLIDLEDETIDAEVMNSLAVTMDDFRWALSQSNPSALRETVVEVPQVTWEDIGGLEDVKRELQELVQYPVEHPDKFLKFGMTPSKGVLFYGPPGCGKTLLAKAIANECQANFISIKGPELLTMWFGESEANVREIFDKARQAAPCVLFFDELDSIAKARGGNIGDGGGAADRVINQILTEMDGMSTKKNVFIIGATNRPDIIDPAILRPGRLDQLIYIPLPDEKSRVAILKANLRKSPVAKDVDLEFLAKMTNGFSGADLTEICQRACKLAIRESIESEIRRERERQTNPSAMEVEEDDPVPEIRRDHFEEAMRFARRSVSDNDIRKYEMFAQTLQQSRGFGSFRFPSGNQGGAGPSQGSGGGTGGSVYTEDNDDDLYG |
| 4136 | sp|A0A0H3JNB0|TARP\_STAAN | MKKVSVIMPTFNNGEKLHRTISSVLNQTMKSTDYELIIIDDHSNDNGETLNVIKKYKGLVRFKQLKKNSGNASVPRNTGLKMSKAEYVFFLDSDDLLHERALEDLYNYGKENNSDLIIGKYGVEGKGRSVPKAIFEKGNVAKADIIDNSIFYALSVLKMFKKSVIDKNKIKFKTFSKTAEDQLFTIEFLMNSKNYSIKTDYEYYIVVNDFESSNHLSVNKSTGNQYFATINEIYKAIYKSPIYKNQEKRHQLAGKYTTRLLRHGQKKNFANSKMKYEDKIEWLNNFSKTINKVPRDSDKYVTQIFNLKLEAIRQNDLLAVMIADKLL |
| 4137 | sp|Q1MTQ1|TEA2\_SCHPO | MSSSSSKPVNTGLVTPRRYSTMTGIRTGPSQSGTGSIPYSPTSPLSRNFSNYSIPMLRSNSTQTNVNGPTAFDLGVTEKLMSPGTLDRYTRPALYPSKDLDYLKNEYVNYESTTSQQTNSKGLKESNFVGSGIITSIRIRPIGKNQGVWSHGKLSNDPYGREYIRQQTSTSSSTIQQEYLFNNVFGMESKNYDIYKRSVKSVVRNVFSGYNGIVFAYGMTGTGKTYSMQGTENEPGIIPLAMNDLFEMVENNSDDDTFQIRISYLEIYNERIRDLIGNSDEEPRIRENASGEVNVTPLTRVLVTSPEEVSQVIEQCNAIRKTAATDFNTYSSRSHAILQVFLIRNNPTAHTSQISSLSLVDLAGSERASAHHERRKEGAFINKSLLTLGTVISRLSAAANPSLTSNSGHIPYRESKLTRLLQQSLSGQSQISLLATISIESNHTMETTNTLKFASRAQNLPQDIRQAEAVTNVQAELASLHSALEKNAQEVEYYASLVKQLTSDLEERDTYIAMLEAERSQGTAISRARLRMEELLSDHNFEIADLRDELQDKEQIIYALRYAQKQRDIADFNQSLAKFPHKILKKNVTRGSRSSSDQFSNETKTEILPDDQQQSKKDSVTQETQLLS |
| 4138 | sp|Q3URK3|TET1\_MOUSE | MSRSRPAKPSKSVKTKLQKKKDIQMKTKTSKQAVRHGASAKAVNPGKPKQLIKRRDGKKETEDKTPTPAPSFLTRAGAARMNRDRNQVLFQNPDSLTCNGFTMALRRTSLSWRLSQRPVVTPKPKKVPPSKKQCTHNIQDEPGVKHSENDSVPSQHATVSPGTENGEQNRCLVEGESQEITQSCPVFEERIEDTQSCISASGNLEAEISWPLEGTHCEELLSHQTSDNECTSPQECAPLPQRSTSEVTSQKNTSNQLADLSSQVESIKLSDPSPNPTGSDHNGFPDSSFRIVPELDLKTCMPLDESVYPTALIRFILAGSQPDVFDTKPQEKTLITTPEQVGSHPNQVLDATSVLGQAFSTLPLQWGFSGANLVQVEALGKGSDSPEDLGAITMLNQQETVAMDMDRNATPDLPIFLPKPPNTVATYSSPLLGPEPHSSTSCGLEVQGATPILTLDSGHTPQLPPNPESSSVPLVIAANGTRAEKQFGTSLFPAVPQGFTVAAENEVQHAPLDLTQGSQAAPSKLEGEISRVSITGSADVKATAMSMPVTQASTSSPPCNSTPPMVERRKRKACGVCEPCQQKANCGECTYCKNRKNSHQICKKRKCEVLKKKPEATSQAQVTKENKRPQREKKPKVLKTDFNNKPVNGPKSESMDCSRRGHGEEEQRLDLITHPLENVRKNAGGMTGIEVEKWAPNKKSHLAEGQVKGSCDANLTGVENPQPSEDDKQQTNPSPTFAQTIRNGMKNVHCLPTDTHLPLNKLNHEEFSKALGNNSSKLLTDPSNCKDAMSVTTSGGECDHLKGPRNTLLFQKPGLNCRSGAEPTIFNNHPNTHSAGSRPHPPEKVPNKEPKDGSPVQPSLLSLMKDRRLTLEQVVAIEALTQLSEAPSESSSPSKPEKDEEAHQKTASLLNSCKAILHSVRKDLQDPNVQGKGLHHDTVVFNGQNRTFKSPDSFATNQALIKSQGYPSSPTAEKKGAAGGRAPFDGFENSHPLPIESHNLENCSQVLSCDQNLSSHDPSCQDAPYSQIEEDVAAQLTQLASTINHINAEVRNAESTPESLVAKNTKQKHSQEKRMVHQKPPSSTQTKPSVPSAKPKKAQKKARATPHANKRKKKPPARSSQENDQKKQEQLAIEYSKMHDIWMSSKFQRFGQSSPRSFPVLLRNIPVFNQILKPVTQSKTPSQHNELFPPINQIKFTRNPELAKEKVKVEPSDSLPTCQFKTESGGQTFAEPADNSQGQPMVSVNQEAHPLPQSPPSNQCANIMAGAAQTQFHLGAQENLVHQIPPPTLPGTSPDTLLPDPASILRKGKVLHFDGITVVTEKREAQTSSNGPLGPTTDSAQSEFKESIMDLLSKPAKNLIAGLKEQEAAPCDCDGGTQKEKGPYYTHLGAGPSVAAVRELMETRFGQKGKAIRIEKIVFTGKEGKSSQGCPVAKWVIRRSGPEEKLICLVRERVDHHCSTAVIVVLILLWEGIPRLMADRLYKELTENLRSYSGHPTDRRCTLNKKRTCTCQGIDPKTCGASFSFGCSWSMYFNGCKFGRSENPRKFRLAPNYPLHEKQLEKNLQELATVLAPLYKQMAPVAYQNQVEYEEVAGDCRLGNEEGRPFSGVTCCMDFCAHSHKDIHNMHNGSTVVCTLIRADGRDTNCPEDEQLHVLPLYRLADTDEFGSVEGMKAKIKSGAIQVNGPTRKRRLRFTEPVPRCGKRAKMKQNHNKSGSHNTKSFSSASSTSHLVKDESTDFCPLQASSAETSTCTYSKTASGGFAETSSILHCTMPSGAHSGANAAAGECTGTVQPAEVAAHPHQSLPTADSPVHAEPLTSPSEQLTSNQSNQQLPLLSNSQKLASCQVEDERHPEADEPQHPEDDNLPQLDEFWSDSEEIYADPSFGGVAIAPIHGSVLIECARKELHATTSLRSPKRGVPFRVSLVFYQHKSLNKPNHGFDINKIKCKCKKVTKKKPADRECPDVSPEANLSHQIPSRVASTLTRDNVVTVSPYSLTHVAGPYNRWV |
| 4139 | sp|P04608|TAT\_HV1H2 | MEPVDPRLEPWKHPGSQPKTACTNCYCKKCCFHCQVCFITKALGISYGRKKRRQRRRAHQNSQTHQASLSKQPTSQPRGDPTGPKE |
| 4140 | sp|O58966|TDXH\_PYRHO | MVVIGEKFPEVEVKTTHGVIKLPDYFTKQGKWFILFSHPADFTPVCTTEFYGMQKRVEEFRKLGVEPIGLSVDQVFSHIKWIEWIKDNLSVEIDFPVIADDRGELAEKLGMIPSGATITARAVFVVDDKGIIRAIVYYPAEVGRDWDEILRLVKALKISTEKGVALPHKWPNNELIGDKVIVPPASTIEEKKQREEAKAKGEIECYDWWFCYKKLE |
| 4141 | sp|P47861|SYT5\_RAT | MFPEPPTPGSPAPETPPDSSRIRQGAVPAWVLATILLGSGLLVFSSCFCLYRKRCRRRMGKKSQAQAQVHLQEVKELGRSYIDKVQPEIEELDPSPSMPGQQVLDKHQLGRLQYSLDYDFQTGQLLVGILQAEGLAALDLGGSSDPYVSVYLLPDKRRRHETKVHRQTLNPHFGETFAFKVPYVELGGRVLVMAVYDFDRFSRNDAIGEVRVPMSSVNLGRPVQAWRELQVAPKEEQEKLGDICFSLRYVPTAGKLTVIVLEAKNLKKMDVGGLSDPYVKVHLLQGGKKVRKKKTTIKKNTLNPYYNEAFSFEVPCDQVQKVQVELTVLDYDKLGKNEAIGRVAVGTAVGGAGLRHWADMLANPRRPIAQWHSLRPPDRARPIPAP |
| 4142 | sp|O60132|TEA4\_SCHPO | MLHMNSASSADSMEIMESHFDPTQQNDSTIIESRYSPEEYLEQSFEIQRIISGENSEPQTVASQEISDSQEEDTTLTSSQFEDCGTEYNEVVEDDEFRSEDEDDFMDEEEEYALYEAELSSSPSIHEEVIDCNFVHAIRGFEATVEGQVDATKGDMMILLDDSNSYWWLVKMCKNLAIGYLPAEYIETPSERLARLNKYKNSETSNSQQSVTLPPLDIVEKTLEAPSPNFRIKRVTFTCSSNSSDDEMDSENDYEAMVNRTVAENGLEIEFSDSSDSSLSAEYRSESEDHVTDSPAYVDLTELEGGFNQFNSTSFQSTSPLGLEIVETEINGSSTTADSKNSHSPYSKFSSAYPDAENSNISKINISIAGNKELYGNATQSDPSLYSTWIANKHKTASSATVDSPLRRSLSVDAMQSNASFSSYSSTSNTDKSLRPSSYSAVSESSNFTHDVSRDNKEISLNAPKSIIVSQSDSFDTSNVTQDAPNDVEKEPISGQMPNNLSVQSLKQLEVYPIRHSVSIEMPSEKLLSPRLYSSSTPSSPTKGFQKDDEEDSENRKQADKVELSPSSLLRQMSLPVDSSSQSDAQCTTSSVYITAERKAFSQSSIDLSTLSNHHVNNEINRRSFAGGFTSLADELSEMRELLHESPAPLECNEEMVIPTPELDASSAIPSSSISHDEDLLPRKNTEESTSSSSFSSLITSPASLQYDENPFKQSVVAELNNNSSSVPFVDSAHASDIHAYDNDHVSTKNKEFNRRLREFILDPDSLSGLYWSVKSAGVRASRRVSRNIEGESVSSDLDDIFANVLKGLSDEMASLLNTNR |
| 4143 | sp|P34945|SYS\_THET2 | MVDLKRLRQEPEVFHRAIREKGVALDLEALLALDREVQELKKRLQEVQTERNQVAKRVPKAPPEEKEALIARGKALGEEAKRLEEALREKEARLEALLLQVPLPPWPGAPVGGEEANREIKRVGGPPEFSFPPLDHVALMEKNGWWEPRISQVSGSRSYALKGDLALYELALLRFAMDFMARRGFLPMTLPSYAREKAFLGTGHFPAYRDQVWAIAETDLYLTGTAEVVLNALHSGEILPYEALPLRYAGYAPAFRSEAGSFGKDVRGLMRVHQFHKVEQYVLTEASLEASDRAFQELLENAEEILRLLELPYRLVEVATGDMGPGKWRQVDIEVYLPSEGRYRETHSCSALLDWQARRANLRYRDPEGRVRYAYTLNNTALATPRILAMLLENHQLQDGRVRVPQALIPYMGKEVLEPCG |
| 4144 | sp|Q5ANJ4|TEC1\_CANAL | MMSQATPSATPVRNADGQKKGKKLPLIVDVAIGNNGKQLYQVHESSKMVRKEMPRSTNFALNDDISDEGFFISQINEQRTPIRKTLGTLSPSSLNQKRIRHDVYDQGDDNSNDDNCQNDVYEQQQQQPQQQQQQQQQLHQPNMYENGNVGVISNDPVSSVGHYDNNPVSHVPTGAYSRVQDTDIWSDDVEEAFEEVLRLIPKSGLNKIKIAGRSCGRNELISDYIFAKTGKFRTRKQVSSHIQVIKNLGQKLDIIQLINDGPIFNSHEEQLESTKKFEDVFSKINLNKSLGFSDSMKRKSDSMPMHLPATKRIRRKHSGNPLNKIKFSNFFMSVNDQYGMNPIVLTIQQNGNDVKSLKLKDNANISSRFPGLSDFKSCPHIPIIHNMVKILLPQLPESYSIDDGFSSSYALKYEEPENASPTHTSIISSSRTYSLFTCVYSYGKEIVKFDEDGIQLNQDREFIPGFWKFFFSTFGDQSEGGLSAAFKGVTIKQILYESSPDSVKKEQDASKVNKSKVKLVLLWEFAKVSECKDALTTTTKLVLPPRASASSSKTTEEVFEYSEPALNSIGGTPTDTTSPNMDLNNQNLSAAATSIPGIRDTIHSASMPDINELPSSAKPQVRLQKTFQSMQHLQPHQMWQQQQQQQPSQGAYTSSVASQSLNTSLSSPYAQYGMPLPQQTIGTFVPPTSQTFGVSYTHNSQHPSANMDLMMLSSMNTGYGNITNNQDYQFGNIGYTEGFTSEF |
| 4145 | sp|Q14BI7|TDRD9\_MOUSE | MLRKLTVDQINDWFTIGKTVTNVELLGLPPAFPAEAPREEVQRSEEVPNEDPTAQAQVPVKATAPARPASTSGRSLSQRSSEMEYINKYRQLEEQELDIYGQDQPPSGPGLRSPLAKLSNVACIPETTYKYPDLPINRCKEEVISLIESNSVVIIHGATGSGKSTQLPQYVLDHYTQRSAFCNIVVTQPRKIGASSIARWISKERSWTLGGLVGYQVGLEKIATEDTRLIYMTTGVLLQKIVSAKSLMEFTHIFIDEVHERTEEMDFLLLVVRKLLRTNSRFVKVVLMSATINCKQFADYFAVPVQNKMNPAYVFEVEGKPHAIEEYYLNDLGHIYHSGLPYRLEEPVITKDVYEVAVSLIQMFDDLDMKESGNKTWSGAQFVSERSSVLVFLPGLGEINYMHELLTNMIHKRLQVYPLHSSVTLEEQNNVFLSPVPGYRKIILSTNIAESSVTVPDVKYVIDFCLTRTLVCDEDTNYQSLRLSWASKTSCDQRKGRAGRVSKGYCYRLIPRDFWDSAIPDHVVPEMLRCPLGSTILKVKLLDMGEPRALLATALSPPSLSDIERTILLLKEVGALAVSGQREDENPHDGELTFLGRVLAQLPVSQQLGKLVVLGHVFGCLDECLIIAAALSLKNFFTMPFRQHLDGYRNKVHFSGSSRSDCLALVEAFRAWQACRQRGELRRPKDELDWGRLNYIQIKRIREVAELYEELKNRISQFNMFVGPHHPVLDQEYPYKQRFILQVVLAGAFYPNYFTFGQPDEEMAVRELAGKDPKTTVVLKHIPPYGFLYYKQLQSLFRQCGQVKSIVFDGAKAFVEFSRNPTERFKTLPAVNLAVKMSQLKVSLELSVHAAEEIEGKVQGGSVSKLRNTRVNVDFQKQTVDPMQVSFNTLDRPRTVADLLLTIDVTEVVEVGHFWGYRIDERNAELLKQLTAEINRLELVPLPIHPHPDLVCLAPFTDYNKESYFRAQILYVSGNSAEVFFVDYGNRSHVDLDLLREIPCQFLELPFQALEFKICKMRPSAKSLICGEHWSGGAHGRFAALVGGCPLLVKVFSIVHSVLHVDVYRYSGAQDAVNVRDVLIREGYAELAEESYESKQSYEVLKGFFAKSVDTMPDGSVSSPLKDDEKHLLRILLESFASNRLGAPNCKAVLHGPFNPYELKCHSLTRISKFRCVWIEKESINSVVISDSPADLHQRMLVAASLSVNETGSTMLLRETSLMPHIPGLPALLSMLFAPVMELRVDREGKCYTGVLCGLGWNSATEAPILPEHDIELAFDVRLNVEDIVEINILRAAINKLVCDGPNGSKYLGPERIAQLQENARQKLLGLFCRLKPREKITPQWHEKPYEWNQVDPRLIMEQAEPEGSPGKSTSLYQLHTPVVLSP |
| 4146 | sp|Q5T7P8|SYT6\_HUMAN | MSGVWGAGGPRCQEALAVLASLCRARPPPLGLDVETCRSFELQPPERSPSAAGAGTSVSLLAVVVIVCGVALVAVFLFLFWKLCWMPWRNKEASSPSSANPPLEALQSPSFRGNMADKLKDPSTLGFLEAAVKISHTSPDIPAEVQMSVKEHIMRHTRLQRQTTEPASSTRHTSFKRHLPRQMHVSSVDYGNELPPAAEQPTSIGRIKPELYKQKSVDGEDAKSEATKSCGKINFSLRYDYETETLIVRILKAFDLPAKDFCGSSDPYVKIYLLPDRKCKLQTRVHRKTLNPTFDENFHFPVPYEELADRKLHLSVFDFDRFSRHDMIGEVILDNLFEASDLSRETSIWKDIQYATSESVDLGEIMFSLCYLPTAGRLTLTVIKCRNLKAMDITGYSDPYVKVSLLCDGRRLKKKKTTIKKNTLNPVYNEAIIFDIPPENMDQVSLLISVMDYDRVGHNEIIGVCRVGITAEGLGRDHWNEMLAYPRKPIAHWHSLVEVKKSFKEGNPRL |
| 4147 | sp|Q86B61|TBH1\_DROME | MLKIPLQLSSQDGIWPARFARRLHHHHQLAYHHHKQEQQQQQQQQQQQQAKQKQKQNGVQQGRSPTFMPVMLLLLMATLLTRPLSAFSNRLSDTKLHEIYLDDKEIKLSWMVDWYKQEVLFHLQNAFNEQHRWFYLGFSKRGGLADADICFFENQNGFFNAVTDTYTSPDGQWVRRDYQQDCEVFKMDEFTLAFRRKFDTCDPLDLRLHEGTMYVVWARGETELALEDHQFALPNVTAPHEAGVKMLQLLRADKILIPETELDHMEITLQEAPIPSQETTYWCHVQRLEGNLRRRHHIVQFEPLIRTPGIVHHMEVFHCEAGEHEEIPLYNGDCEQLPPRAKICSKVMVLWAMGAGTFTYPPEAGLPIGGPGFNPYVRLEVHFNNPEKQSGLVDNSGFRIKMSKTLRQYDAAVMELGLEYTDKMAIPPGQTAFPLSGYCVADCTRAALPATGIIIFGSQLHTHLRGVRVLTRHFRGEQELREVNRDDYYSNHFQEMRTLHYKPRVLPGDALVTTCYYNTKDDKTAALGGFSISDEMCVNYIHYYPATKLEVCKSSVSEETLENYFIYMKRTEHQHGVHLNGARSSNYRSIEWTQPRIDQLYTMYMQEPLSMQCNRSDGTRFEGRSSWEGVAATPVQIRIPIHRKLCPNYNPLWLKPLEKGDCDLLGECIY |
| 4148 | sp|Q4KTA7|TERT\_TAKRU | MSITDLSPTLGILRSLYPHVQVLVDFADDIVFREGHKATLIEESDTSHFKSFVRGIFVCFHKELQQVPSCNQICTLPELLAFVLNSVKRKRKRNVLAHGYNFQSLAQEERDADQFKLQGDVTQSAAYVHGSDLWRKVSMRLGTDITRYLFESCSVFVAVPPSCLFQVCGIPIYDCFSLATASLGFSLQSRGCRERCLGVNSMKRRAFNVKRYLRKRKTETDQKDEARVCSGKRRRVMEEDKVSCETMQDGESGKTTLVQKQPGSKKRSEMEATLLPLEGGPSWRSGTFPPLPPSQSFMRTLGFLYGGRGMRSFLLNRKKKTAEGFRKIQGRDLIRIVFFEGVLYLNGLERKPKKLPRRFFNMVPLFSQLLRQHRRCPYSRLLQKTCPLVGIKDAGQAELSSFLPQHCGSHRVYLFVRECLLAVIPQELWGSEHNRLLYFARVRFFLRSGKFERLSVAELMWKIKVNNCDWLKISKTGRVPPSELSYRTQILGQFLAWLLDGFVVGLVRACFYATESMGQKNAIRFYRQEVWAKLQDLAFRSHISKGQMVELTPDQVAALPKSTIISRLRFIPKTDGMRPITRVIGADAKTRLYQSHVRDLLDMLRACVCSTPSLLGSTVWGMTDIHKVLSSIAPAQKEKPQPLYFVKMDVSGAYESLPHNKLIEVINQVLTPVLNEVFTIRRFAKIWADSHEGLKKAFIRQADFLEANMGSINMKQFLTSLQKKGKLHHSVLVEQIFSSDLEGKDALQFFTQILKGSVIQFGKKTYRQCQGVPQGSAVSSVLCCLCYGHMENVLFKDIINKKSCLMRLVDDFLLITPNLHDAQTFLKILLAGVPQYGLVVNPQKVVVNFEDYGSTDSCPGLRVLPLRCLFPWCGLLLDTHTLDIYKDYSSYADLSLRYSLTLGSCHSAGHQMKRKLMGILRLKCHALFLDLKTNSLEAIYKNIYKLLLLHALRFHVCAQSLPFGQSVAKNPAYFLLMIWDMVEYTNYLIRLSNNGLISGSTSQTGSVQYEAVELLFCLSFLLVLSKHRRLYKDLLLHLHKRKRRLEQCLGDLRLARVRQAANPRNPLDFLAIKT |
| 4149 | sp|Q9BT92|TCHP\_HUMAN | MALPTLPSYWCSQQRLNQQLARQREQEARLRQQWEQNSRYFRMSDICSSKQAEWSSKTSYQRSMHAYQREKMKEEKRRSLEARREKLRQLMQEEQDLLARELEELRLSMNLQERRIREQHGKLKSAKEEQRKLIAEQLLYEHWKKNNPKLREMELDLHQKHVVNSWEMQKEEKKQQEATAEQENKRYENEYERARREALERMKAEEERRQLEDKLQAEALLQQMEELKLKEVEATKLKKEQENLLKQRWELERLEEERKQMEAFRQKAELGRFLRHQYNAQLSRRTQQIQEELEADRRILQALLEKEDESQRLHLARREQVMADVAWMKQAIEEQLQLERAREAELQMLLREEAKEMWEKREAEWARERSARDRLMSEVLTGRQQQIQEKIEQNRRAQEESLKHREQLIRNLEEVRELARREKEESEKLKSARKQELEAQVAERRLQAWEADQQEEEEEEEARRVEQLSDALLQQEAETMAEQGYRPKPYGHPKIAWN |
| 4150 | sp|Q86TJ2|TAD2B\_HUMAN | MAELGKKYCVYCLAEVSPLRFRCTECQDIELCPECFSAGAEIGHHRRYHGYQLVDGGRFTLWGPEAEGGWTSREEQLLLDAIEQFGFGNWEDMAAHVGASRTPQEVMEHYVSMYIHGNLGKACIPDTIPNRVTDHTCPSGGPLSPSLTTPLPPLDISVAEQQQLGYMPLRDDYEIEYDQDAETLISGLSVNYDDDDVEIELKRAHVDMYVRKLKERQRRKNIARDYNLVPAFLGKDKKEKEKALKRKITKEEKELRLKLRPLYQFMSCKEFDDLFENMHKEKMLRAKIRELQRYRRNGITKMEESAEYEAARHKREKRKENKNLAGSKRGKEDGKDSEFAAIENLPGFELLSDREKVLCSSLNLSPARYVTVKTIIIKDHLQKRQGIPSKSRLPSYLDKVLKKRILNFLTESGWISRDAS |
| 4151 | sp|Q5VWG9|TAF3\_HUMAN | MCESYSRSLLRVSVAQICQALGWDSVQLSACHLLTDVLQRYLQQLGRGCHRYSELYGRTDPILDDVGEAFQLMGVSLHELEDYIHNIEPVTFPHQIPSFPVSKNNVLQFPQPGSKDAEERKEYIPDYLPPIVSSQEEEEEEQVPTDGGTSAEAMQVPLEEDDELEEEEIINDENFLGKRPLDSPEAEELPAMKRPRLLSTKGDTLDVVLLEAREPLSSINTQKIPPMLSPVHVQDSTDLAPPSPEPPMLAPVAKSQMPTAKPLETKSFTPKTKTKTSSPGQKTKSPKTAQSPAMVGSPIRSPKTVSKEKKSPGRSKSPKSPKSPKVTTHIPQTPVRPETPNRTPSATLSEKISKETIQVKQIQTPPDAGKLNSENQPKKAVVADKTIEASIDAVIARACAEREPDPFEFSSGSESEGDIFTSPKRISGPECTTPKASTSANNFTKSGSTPLPLSGGTSSSDNSWTMDASIDEVVRKAKLGTPSNMPPNFPYISSPSVSPPTPEPLHKVYEEKTKLPSSVEVKKKLKKELKTKMKKKEKQRDREREKDKNKDKSKEKDKVKEKEKDKETGRETKYPWKEFLKEEEADPYKFKIKEFEDVDPKVKLKDGLVRKEKEKHKDKKKDREKGKKDKDKREKEKVKDKGREDKMKAPAPPLVLPPKELALPLFSPATASRVPAMLPSLLPVLPEKLFEEKEKVKEKEKKKDKKEKKKKKEKEKEKKEKEREKEKREREKREKEKEKHKHEKIKVEPVALAPSPVIPRLTLRVGAGQDKIVISKVVPAPEAKPAPSQNRPKTPPPAPAPAPGPMLVSPAPVPLPLLAQAAAGPALLPSPGPAASGASAKAPVRSVVTETVSTYVIRDEWGNQIWICPGCNKPDDGSPMIGCDDCDDWYHWPCVGIMTAPPEEMQWFCPKCANKKKDKKHKKRKHRAH |
| 4152 | sp|Q3ZCQ8|TIM50\_HUMAN | MAASAAVFSRLRSGLRLGSRGLCTRLATPPRRAPDQAAEIGSRGSTKAQGPQQQPGSEGPSYAKKVALWLAGLLGAGGTVSVVYIFGNNPVDENGAKIPDEFDNDPILVQQLRRTYKYFKDYRQMIIEPTSPCLLPDPLQEPYYQPPYTLVLELTGVLLHPEWSLATGWRFKKRPGIETLFQQLAPLYEIVIFTSETGMTAFPLIDSVDPHGFISYRLFRDATRYMDGHHVKDISCLNRDPARVVVVDCKKEAFRLQPYNGVALRPWDGNSDDRVLLDLSAFLKTIALNGVEDVRTVLEHYALEDDPLAAFKQRQSRLEQEEQQRLAELSKSNKQNLFLGSLTSRLWPRSKQP |
| 4153 | sp|P37025|THPR\_ECOLI | MSEPQRLFFAIDLPAEIREQIIHWRATHFPPEAGRPVAADNLHLTLAFLGEVSAEKEKALSLLAGRIRQPGFTLTLDDAGQWLRSRVVWLGMRQPPRGLIQLANMLRSQAARSGCFQSNRPFHPHITLLRDASEAVTIPPPGFNWSYAVTEFTLYASSFARGRTRYTPLKRWALTQ |
| 4154 | sp|Q27272|TAF9\_DROME | MSAEKSDKAKISAQIKHVPKDAQVIMSILKELNVQEYEPRVVNQLLEFTFRYVTCILDDAKVYANHARKKTIDLDDVRLATEVTLDKSFTGPLERHVLAKVADVRNSMPLPPIKPHCGLRLPPDRYCLTGVNYKLRATNQPKKMTKSAVEGRPLKTVVKPVSSANGPKRPHSVVAKQQVVTIPKPVIKFTTTTTTKTVGSSGGSGGGGGQEVKSESTGAGGDLKMEVDSDAAAVGSIAGASGSGAGSASGGGGGGGSSGVGVAVKREREEEEFEFVTN |
| 4155 | sp|P37837|TALDO\_HUMAN | MSSSPVKRQRMESALDQLKQFTTVVADTGDFHAIDEYKPQDATTNPSLILAAAQMPAYQELVEEAIAYGRKLGGSQEDQIKNAIDKLFVLFGAEILKKIPGRVSTEVDARLSFDKDAMVARARRLIELYKEAGISKDRILIKLSSTWEGIQAGKELEEQHGIHCNMTLLFSFAQAVACAEAGVTLISPFVGRILDWHVANTDKKSYEPLEDPGVKSVTKIYNYYKKFSYKTIVMGASFRNTGEIKALAGCDFLTISPKLLGELLQDNAKLVPVLSAKAAQASDLEKIHLDEKSFRWLHNEDQMAVEKLSDGIRKFAADAVKLERMLTERMFNAENGK |
| 4156 | sp|Q8LPR9|TI110\_ARATH | MNPSLVTAINAPISPSPRSPLLSHFLPTLPHRFSKSECLSRRRYRVSFPRSSAASSDQLSVSTQAKNPGIHGNKKELTGLQPIVEKMTPPVRLATSAVVLAASLATGYGLGLRLAGSRNIAFGGAAVAGAAGGAVVYALNSAVPEVAAISLHNYVAEFEDPASVTKDDVEKIADRYGVNKGDEAFQAEICDIYCRYVTSVLPTEGQSLKGDEVAKIVKFKNALGIDEPDAAAMHMEIGRRIFRQRLETGEREGDAEQRRAFMRLVYVSALVFGDASSFLLPWKRVLKVTDAQVEIAIRENAKQLYAERLKLVGRDINVENLVDLRKSQLSFKLSDELAEDLFREHTRKVVVENISSALSILKSRTRAAKSLASVVEELEKVLEFNNLLVSLKSHSEADQFARGVGPISLIGDESDFERRMDDLKLLYRAYVTDALSGGRLEENKLVAMSQLRNILGLGKREAEAISVDVTSKSYRKRLANAVSSGDLEAQDSKAKYLQKLCEELHFDAQKAGAIHEEIYRQKLQQCVTDGELSDDNVAALLRLRVMLCIPQQTVDTAHAEICGTIFEKVVRDAISSGVDGYDAETRKSVRKAAHGLRLSRETAMSIASKAVRRVFTNYIRRARAAENRTDSAKELKKMIAFNTLVVTEMVADIKGESSDKAPEEDPVQEKEEDDEDEEWGSLESLRKTRPDKELAEKMGKPGQTEITLKDDLPDRDRIDLYKTYLLYCVTGEVTRIPFGAQITTKRDDSEYLLLNQLGGILGLSSKEIVNIHVGLAEQAFRQQAEVILADGQLTKARVEQLDELQKQVGLPQPQAEKVIKNITTTKMANAIETAVNQGRLNIKQIRELKEANVSLDSMIAVSLREKLFKKTVSDIFSSGTGEFDETEVYQTIPSDLSIDVEKAKRVVHDLAQSRLSNSLVQAVALLRQRNSKGVVLSLNDLLACDKAVPAEPMSWEVSEELSDLYAIYSKSDPKPAPEKVLRLQYLLGIDDSTATALREMEDGALSSAAEEGNFVF |
| 4157 | sp|Q9DBI0|TMPS6\_MOUSE | MPRCFQLPCSTRMPTTEVPQAADGQGDAGDGEEAAEPEGKFKPPKNTKRKNRDYVRFTPLLLVLAALVSAGVMLWYFLGYKAEVTVSQVYSGSLRVLNRHFSQDLGRRESIAFRSESAKAQKMLQELVASTRLGTYYNSSSVYSFGEGPLTCFFWFILDIPEYQRLTLSPEVVRELLVDELLSNSSTLASYKTEYEVDPEGLVILEASVNDIVVLNSTLGCYRYSYVNPGQVLPLKGPDQQTTSCLWHLQGPEDLMIKVRLEWTRVDCRDRVAMYDAAGPLEKRLITSVYGCSRQEPVMEVLASGSVMAVVWKKGMHSYYDPFLLSVKSVAFQDCQVNLTLEGRLDTQGFLRTPYYPSYYSPSTHCSWHLTVPSLDYGLALWFDAYALRRQKYNRLCTQGQWMIQNRRLCGFRTLQPYAERIPMVASDGVTINFTSQISLTGPGVQVYYSLYNQSDPCPGEFLCSVNGLCVPACDGIKDCPNGLDERNCVCRAMFQCQEDSTCISLPRVCDRQPDCLNGSDEEQCQEGVPCGTFTFQCEDRSCVKKPNPECDGQSDCRDGSDEQHCDCGLQGLSSRIVGGTVSSEGEWPWQASLQIRGRHICGGALIADRWVITAAHCFQEDSMASPKLWTVFLGKMRQNSRWPGEVSFKVSRLFLHPYHEEDSHDYDVALLQLDHPVVYSATVRPVCLPARSHFFEPGQHCWITGWGAQREGGPVSNTLQKVDVQLVPQDLCSEAYRYQVSPRMLCAGYRKGKKDACQGDSGGPLVCREPSGRWFLAGLVSWGLGCGRPNFFGVYTRVTRVINWIQQVLT |
| 4158 | sp|Q92609|TBCD5\_HUMAN | MYHSLSETRHPLQPEEQEVGIDPLSSYSNKSGGDSNKNGRRTSSTLDSEGTFNSYRKEWEELFVNNNYLATIRQKGINGQLRSSRFRSICWKLFLCVLPQDKSQWISRIEELRAWYSNIKEIHITNPRKVVGQQDLMINNPLSQDEGSLWNKFFQDKELRSMIEQDVKRTFPEMQFFQQENVRKILTDVLFCYARENEQLLYKQGMHELLAPIVFVLHCDHQAFLHASESAQPSEEMKTVLNPEYLEHDAYAVFSQLMETAEPWFSTFEHDGQKGKETLMTPIPFARPQDLGPTIAIVTKVNQIQDHLLKKHDIELYMHLNRLEIAPQIYGLRWVRLLFGREFPLQDLLVVWDALFADGLSLGLVDYIFVAMLLYIRDALISSNYQTCLGLLMHYPFIGDVHSLILKALFLRDPKRNPRPVTYQFHPNLDYYKARGADLMNKSRTNAKGAPLNINKVSNSLINFGRKLISPAMAPGSAGGPVPGGNSSSSSSVVIPTRTSAEAPSHHLQQQQQQQRLMKSESMPVQLNKGLSSKNISSSPSVESLPGGREFTGSPPSSATKKDSFFSNISRSRSHSKTMGRKESEEELEAQISFLQGQLNDLDAMCKYCAKVMDTHLVNIQDVILQENLEKEDQILVSLAGLKQIKDILKGSLRFNQSQLEAEENEQITIADNHYCSSGQGQGRGQGQSVQMSGAIKQASSETPGCTDRGNSDDFILISKDDDGSSARGSFSGQAQPLRTLRSTSGKSQAPVCSPLVFSDPLMGPASASSSNPSSSPDDDSSKDSGFTIVSPLDI |
| 4159 | sp|Q6YHU6|THADA\_HUMAN | MGVKKKKEMQVAALTICHQDLETLKSFADVEGKNLASLLLHCVQLTDGVSQIHYIKQIVPLLEKADKNGMCDPTIQSCLDILAGIYLSLSLKNPLKKVLASSLNSLPDFFLPEAMHRFTSRLQEELNTTDLYSYRKVTDNISSCMENFNLGRASVNNLLKNVLHFLQKSLIEILEENRKCAGNHIIQTQLMNDLLVGIRVSMMLVQKVQDFQGNLWKTSDSPIWQNMCGLLSIFTKVLSDDDLLQTVQSTSGLAIILFIKTMFHPSEKIPHLISSVLLRSVDCTSVPEWFMSSCRSLCCGDISQSAVLFLCQGTLAMLDWQNGSMGRSGEALLLDTAHVLFTLSSQIKEPTLEMFLSRILASWTNSAIQVLESSSPSLTDSLNGNSSIVGRLLEYVYTHWEHPLDALRHQTKIMFKNLLQMHRLTVEGADFVPDPFFVELTESLLRLEWHIKGKYTCLGCLVECIGVEHILAIDKTIPSQILEVMGDQSLVPYASDLLETMFRNHKSHLKSQTAESSWIDQWHETWVSPLLFILCEGNLDQKSYVIDYYLPKLLSYSPESLQYMVKILQTSIDAKTGQEQSFPSLGSCNSRGALGALMACLRIARAHGHLQSATDTWENLVSDARIKQGLIHQHCQVRIDTLGLLCESNRSTEIVSMEEMQWIQFFITYNLNSQSPGVRQQICSLLKKLFCRIQESSQVLYKLEQSKSKREPENELTKQHPSVSLQQYKNFMSSICNSLFEALFPGSSYSTRFSALTILGSIAEVFHVPEGRIYTVYQLSHDIDVGRFQTLMECFTSTFEDVKILAFDLLMKLSKTAVHFQDSGKLQGLFQAALELSTSTKPYDCVTASYLLNFLIWQDALPSSLSAYLTQQVACDNGDRPAAVVERNTLMVIKCLMENLEEEVSQAENSLLQAAAAFPMYGRVHCITGALQKLSLNSLQLVSEWRPVVEKLLLMSYRLSTVVSPVIQSSSPEGLIPMDTDSESASRLQMILNEIQPRDTNDYFNQAKILKEHDSFDMKDLNASVVNIDTSTEIKGKEVKTCDVTAQMVLVCCWRSMKEVALLLGMLCQLLPMQPVPESSDGLLTVEQVKEIGDYFKQHLLQSRHRGAFELAYTGFVKLTEVLNRCPNVSLQKLPEQWLWSVLEEIKCSDPSSKLCATRRSAGIPFYIQALLASEPKKGRMDLLKITMKELISLAGPTDDIQSTVPQVHALNILRALFRDTRLGENIIPYVADGAKAAILGFTSPVWAVRNSSTLLFSALITRIFGVKRAKDEHSKTNRMTGREFFSRFPELYPFLLKQLETVANTVDSDMGEPNRHPSMFLLLLVLERLYASPMDGTSSALSMGPFVPFIMRCGHSPVYHSREMAARALVPFVMIDHIPNTIRTLLSTLPSCTDQCFRQNHIHGTLLQVFHLLQAYSDSKHGTNSDFQHELTDITVCTKAKLWLAKRQNPCLVTRAVYIDILFLLTCCLNRSAKDNQPVLESLGFWEEVRGIISGSELITGFPWAFKVPGLPQYLQSLTRLAIAAVWAAAAKSGERETNVPISFSQLLESAFPEVRSLTLEALLEKFLAAASGLGEKGVPPLLCNMGEKFLLLAMKENHPECFCKILKILHCMDPGEWLPQTEHCVHLTPKEFLIWTMDIASNERSEIQSVALRLASKVISHHMQTCVENRELIAAELKQWVQLVILSCEDHLPTESRLAVVEVLTSTTPLFLTNPHPILELQDTLALWKCVLTLLQSEEQAVRDAATETVTTAMSQENTCQSTEFAFCQVDASIALALALAVLCDLLQQWDQLAPGLPILLGWLLGESDDLVACVESMHQVEEDYLFEKAEVNFWAETLIFVKYLCKHLFCLLSKSGWRPPSPEMLCHLQRMVSEQCHLLSQFFRELPPAAEFVKTVEFTRLRIQEERTLACLRLLAFLEGKEGEDTLVLSVWDSYAESRQLTLPRTEAAC |
| 4160 | sp|Q9NW97|TMM51\_HUMAN | MMAQSKANGSHYALTAIGLGMLVLGVIMAMWNLVPGFSAAEKPTAQGSNKTEVGGGILKSKTFSVAYVLVGAGVMLLLLSICLSIRDKRKQRQGEDLAHVQHPTGAGPHAQEEDSQEEEEEDEEAASRYYVPSYEEVMNTNYSEARGEEQNPRLSISLPSYESLTGLDETTPTSTRADVEASPGNPPDRQNSKLAKRLKPLKVRRIKSEKLHLKDFRINLPDKNVPPPSIEPLTPPPQYDEVQEKAPDTRPPD |
| 4161 | sp|Q5CD18|TGFR1\_PIG | MEVAAGAPRSRLLLFVLAATATLAPEATAFQCFCHLCTKDNFTCVTDGLCFVSVTETTDKVIHNSMCIAEIDLIPRDRPFVCAPSSKTGSVTTTYCCNQDHCNKIELPTVGPFPGKPPSGLGPVELAAVIAGPVCFVCISLMLMVYICHNRTVIHHRVPNEEDPSLDRPFISEGTTLKDLIYDMTTSGSGSGLPLLVQRTIARTIVLQESIGKGRFGEVWRGKWRGEEVAVKIFSSREERSWFREAEIYQTVMLRHENILGFIAADNKDNGTWTQLWLVSDYHEHGSLFDYLNRYTVTVEGMIKLALSTASGLAHLHMEIVGTQGKPAIAHRDLKSKNILVKKNGTCCIADLGLAVRHDSATDTIDIAPNHRVGTKRYMAPEVLDDSINMKHFESFKRADIYAMGLVFWEIARRCSIGGIHEDYQLPYYDLVPSDPSVEEMRKVVCEQKLRPNIPNRWQSCEALRVMAKIMRECWYANGAARLTALRIKKTLSQLSQQEGIKM |
| 4162 | sp|Q3U145|TMM64\_MOUSE | MRNPGGSLPHTLPRALQHAGRTGVVEQPGRWAPERTAGGDRSEDRLPRGGGASAAAAAAAAAASGALLGAYLERHGLPAASDLPAPAGALAGGPGSGGGVVVGVAEVRNWRCCCLGSTCWCRSLVLVCVLAALCFASLALVRRYLQHLLLWVESLDSLLGVLLFVVGFIVVSFPCGWGYIVLNVAAGYLYGFVLGMGLMVVGVLIGTFIAHVVCKRLLTAWVAARIQNSDKLSAVIRVVEGGSGLKVVALARLTPIPFGLQNAVFSITDVPLPSYLMASSAGLLPTQLLNSYLGTTLRTMEDVIAEQSLSGYFVFCLQIVISIGLMFYVVHRAQVELNAAIVACEMELKTSLVKGNQSDPSGSSFYNKRTLTFSGGGINIV |
| 4163 | sp|Q69YG0|TMM42\_HUMAN | MAERPGPPGGAVSATAYPDTPAEFPPHLQAGAMRRRFWGVFNCLCAGAFGALAAASAKLAFGSEVSMGLCVLGIIVMASTNSLMWTFFSRGLSFSMSSAIASVTVTFSNILSSAFLGYVLYGECQEVLWWGGVFLILCGLTLIHRKLPPTWKPLPHKQQ |
| 4164 | sp|P21980|TGM2\_HUMAN | MAEELVLERCDLELETNGRDHHTADLCREKLVVRRGQPFWLTLHFEGRNYEASVDSLTFSVVTGPAPSQEAGTKARFPLRDAVEEGDWTATVVDQQDCTLSLQLTTPANAPIGLYRLSLEASTGYQGSSFVLGHFILLFNAWCPADAVYLDSEEERQEYVLTQQGFIYQGSAKFIKNIPWNFGQFEDGILDICLILLDVNPKFLKNAGRDCSRRSSPVYVGRVVSGMVNCNDDQGVLLGRWDNNYGDGVSPMSWIGSVDILRRWKNHGCQRVKYGQCWVFAAVACTVLRCLGIPTRVVTNYNSAHDQNSNLLIEYFRNEFGEIQGDKSEMIWNFHCWVESWMTRPDLQPGYEGWQALDPTPQEKSEGTYCCGPVPVRAIKEGDLSTKYDAPFVFAEVNADVVDWIQQDDGSVHKSINRSLIVGLKISTKSVGRDEREDITHTYKYPEGSSEEREAFTRANHLNKLAEKEETGMAMRIRVGQSMNMGSDFDVFAHITNNTAEEYVCRLLLCARTVSYNGILGPECGTKYLLNLNLEPFSEKSVPLCILYEKYRDCLTESNLIKVRALLVEPVINSYLLAERDLYLENPEIKIRILGEPKQKRKLVAEVSLQNPLPVALEGCTFTVEGAGLTEEQKTVEIPDPVEAGEEVKVRMDLLPLHMGLHKLVVNFESDKLKAVKGFRNVIIGPA |
| 4165 | sp|Q92544|TM9S4\_HUMAN | MATAMDWLPWSLLLFSLMCETSAFYVPGVAPINFHQNDPVEIKAVKLTSSRTQLPYEYYSLPFCQPSKITYKAENLGEVLRGDRIVNTPFQVLMNSEKKCEVLCSQSNKPVTLTVEQSRLVAERITEDYYVHLIADNLPVATRLELYSNRDSDDKKKEKDVQFEHGYRLGFTDVNKIYLHNHLSFILYYHREDMEEDQEHTYRVVRFEVIPQSIRLEDLKADEKSSCTLPEGTNSSPQEIDPTKENQLYFTYSVHWEESDIKWASRWDTYLTMSDVQIHWFSIINSVVVVFFLSGILSMIIIRTLRKDIANYNKEDDIEDTMEESGWKLVHGDVFRPPQYPMILSSLLGSGIQLFCMILIVIFVAMLGMLSPSSRGALMTTACFLFMFMGVFGGFSAGRLYRTLKGHRWKKGAFCTATLYPGVVFGICFVLNCFIWGKHSSGAVPFPTMVALLCMWFGISLPLVYLGYYFGFRKQPYDNPVRTNQIPRQIPEQRWYMNRFVGILMAGILPFGAMFIELFFIFSAIWENQFYYLFGFLFLVFIILVVSCSQISIVMVYFQLCAEDYRWWWRNFLVSGGSAFYVLVYAIFYFVNKLDIVEFIPSLLYFGYTALMVLSFWLLTGTIGFYAAYMFVRKIYAAVKID |
| 4166 | sp|Q7DB77|TIR\_ECO57 | MPIGNLGHNPNVNNSIPPAPPLPSQTDGAGGRGQLINSTGPLGSRALFTPVRNSMADSGDNRASDVPGLPVNPMRLAASEITLNDGFEVLHDHGPLDTLNRQIGSSVFRVETQEDGKHIAVGQRNGVETSVVLSDQEYARLQSIDPEGKDKFVFTGGRGGAGHAMVTVASDITEARQRILELLEPKGTGESKGAGESKGVGELRESNSGAENTTETQTSTSTSSLRSDPKLWLALGTVATGLIGLAATGIVQALALTPEPDSPTTTDPDAAASATETATRDQLTKEAFQNPDNQKVNIDELGNAIPSGVLKDDVVANIEEQAKAAGEEAKQQAIENNAQAQKKYDEQQAKRQEELKVSSGAGYGLSGALILGGGIGVAVTAALHRKNQPVEQTTTTTTTTTTTSARTVENKPANNTPAQGNVDTPGSEDTMESRRSSMASTSSTFFDTSSIGTVQNPYADVKTSLHDSQVPTSNSNTSVQNMGNTDSVVYSTIQHPPRDTTDNGARLLGNPSAGIQSTYARLALSGGLRHDMGGLTGGSNSAVNTSNNPPAPGSHRFV |
| 4167 | sp|P36941|TNR3\_HUMAN | MLLPWATSAPGLAWGPLVLGLFGLLAASQPQAVPPYASENQTCRDQEKEYYEPQHRICCSRCPPGTYVSAKCSRIRDTVCATCAENSYNEHWNYLTICQLCRPCDPVMGLEEIAPCTSKRKTQCRCQPGMFCAAWALECTHCELLSDCPPGTEAELKDEVGKGNNHCVPCKAGHFQNTSSPSARCQPHTRCENQGLVEAAPGTAQSDTTCKNPLEPLPPEMSGTMLMLAVLLPLAFFLLLATVFSCIWKSHPSLCRKLGSLLKRRPQGEGPNPVAGSWEPPKAHPYFPDLVQPLLPISGDVSPVSTGLPAAPVLEAGVPQQQSPLDLTREPQLEPGEQSQVAHGTNGIHVTGGSMTITGNIYIYNGPVLGGPPGPGDLPATPEPPYPIPEEGDPGPPGLSTPHQEDGKAWHLAETEHCGATPSNRGPRNQFITHD |
| 4168 | sp|Q9P0N5|TM216\_HUMAN | MLPRGLKMAPRGKRLSSTPLEILFFLNGWYNATYFLLELFIFLYKGVLLPYPTANLVLDVVMLLLYLGIEVIRLFFGTKGNLCQRKMPLSISVALTFPSAMMASYYLLLQTYVLRLEAIMNGILLFFCGSELLLEVLTLAAFSRI |
| 4169 | sp|Q8IV31|TM139\_HUMAN | MVPMHLLGRLEKPLLLLCCASFLLGLALLGIKTDITPVAYFFLTLGGFFLFAYLLVRFLEWGLRSQLQSMQTESPGPSGNARDNEAFEVPVYEEAVVGLESQCRPQELDQPPPYSTVVIPPAPEEEQPSHPEGSRRAKLEQRRMASEGSMAQEGSPGRAPINLRLRGPRAVSTAPDLQSLAAVPTLEPLTPPPAYDVCFGHPDDDSVFYEDNWAPP |
| 4170 | sp|Q9Z0W1|TNR16\_MOUSE | MRRAGAACSAMDRLRLLLLLLLLLGVSFGGAKETCSTGMYTHSGECCKACNLGEGVAQPCGANQTVCEPCLDSVTFSDVVSATEPCKPCTECLGLQSMSAPCVEADDAVCRCSYGYYQDEETGRCEACSVCGVGSGLVFSCQDKQNTVCEECPEGTYSDEANHVDPCLPCTVCEDTERQLRECTPWADAECEEIPGRWITRSTPPEGSDVTTPSTQEPEAPPERDLIASTVADTVTTVMGSSQPVVTRGTADNLIPVYCSILAAVVVGLVAYIAFKRWNSCKQNKQGANSRPVNQTPPPEGEKLHSDSGISVDSQSLHDQQTHTQTASGQALKGDGNLYSSLPLTKREEVEKLLNGDTWRHLAGELGYQPEHIDSFTHEACPVRALLASWGAQDSATLDALLAALRRIQRADIVESLCSESTATSPV |
| 4171 | sp|O43294|TGFI1\_HUMAN | MEDLDALLSDLETTTSHMPRSGAPKERPAEPLTPPPSYGHQPQTGSGESSGASGDKDHLYSTVCKPRSPKPAAPAAPPFSSSSGVLGTGLCELDRLLQELNATQFNITDEIMSQFPSSKVASGEQKEDQSEDKKRPSLPSSPSPGLPKASATSATLELDRLMASLSDFRVQNHLPASGPTQPPVVSSTNEGSPSPPEPTGKGSLDTMLGLLQSDLSRRGVPTQAKGLCGSCNKPIAGQVVTALGRAWHPEHFVCGGCSTALGGSSFFEKDGAPFCPECYFERFSPRCGFCNQPIRHKMVTALGTHWHPEHFCCVSCGEPFGDEGFHEREGRPYCRRDFLQLFAPRCQGCQGPILDNYISALSALWHPDCFVCRECFAPFSGGSFFEHEGRPLCENHFHARRGSLCATCGLPVTGRCVSALGRRFHPDHFTCTFCLRPLTKGSFQERAGKPYCQPCFLKLFG |
| 4172 | sp|Q02223|TNR17\_HUMAN | MLQMAGQCSQNEYFDSLLHACIPCQLRCSSNTPPLTCQRYCNASVTNSVKGTNAILWTCLGLSLIISLAVFVLMFLLRKINSEPLKDEFKNTGSGLLGMANIDLEKSRTGDEIILPRGLEYTVEECTCEDCIKSKPKVDSDHCFPLPAMEEGATILVTTKTNDYCKSLPAALSATEIEKSISAR |
| 4173 | sp|P13437|THIM\_RAT | MALLRGVFIVAAKRTPFGAYGGLLKDFTATDLTEFAARAALSAGKVPPETIDSVIVGNVMQSSSDAAYLARHVGLRVGVPTETGALTLNRLCGSGFQSIVSGCQEICSKDAEVVLCGGTESMSQSPYSVRNVRFGTKFGLDLKLEDTLWAGLTDQHVKLPMGMTAENLAAKYNISREDCDRYALQSQQRWKAANEAGYFNEEMAPIEVKTKKGKQTMQVDEHARPQTTLEQLQNLPPVFKKEGTVTAGNASGMSDGAGVVIIASEDAVKKHNFTPLARVVGYFVSGCDPAIMGIGPVPAITGALKKAGLSLKDMDLIDVNEAFAPQFLAVQKSLDLDPSKTNVSGGAIALGHPLGGSGSRITAHLVHELRRRGGKYAVGSACIGGGQGISLIIQNTA |
| 4174 | sp|Q3UFY8|TM10C\_MOUSE | MNVTVRFLRPFARCLVPYTFHRKRSHLYSGVLQRYMSSKAPSLSCHNKDSASPPEQLELDGWKATMKSSIQEDGVSEVSDKDEDSLASTRELIEMWRLLGKEVPEHITEEDLKTLMECASKSAKKKYLRYLYGKEKAKKAKQVKKEMKAEAREEAKRARLLETTAEEQQQDFMFLRLWDRQINIALGWKGVQAMQFGQPLVFDMAYDNYMKPSELQNTVSQLLESEGWNRRNVDPFHIYFCNLKIDSAYHRELVKRYREKWDKLLLTATEKSPVDLFPKDSIIYLTADSPNVMTTFKHDKIYIIGSFVDKNTQTGTSLAKAKRLNIATECLPLDKYLQWEIGNKNLTLDQMIRILLCLKNTGNWEEALKFVPRRKHTGYLEVSEQSQELVRKLKKTKTLNSFRKGSLNVRTWKR |
| 4175 | sp|P19237|TNNI1\_HUMAN | MPEVERKPKITASRKLLLKSLMLAKAKECWEQEHEEREAEKVRYLAERIPTLQTRGLSLSALQDLCRELHAKVEVVDEERYDIEAKCLHNTREIKDLKLKVMDLRGKFKRPPLRRVRVSADAMLRALLGSKHKVSMDLRANLKSVKKEDTEKERPVEVGDWRKNVEAMSGMEGRKKMFDAAKSPTSQ |
| 4176 | sp|Q9NUH8|TM14B\_HUMAN | MEKPLFPLVPLHWFGFGYTALVVSGGIVGYVKTGSVPSLAAGLLFGSLAGLGAYQLYQDPRNVWGFLAATSVTFVGVMGMRSYYYGKFMPVGLIAGASLLMAAKVGVRMLMTSD |
| 4177 | sp|Q8NFZ5|TNIP2\_HUMAN | MSRDPGSGGWEEAPRAAAALCTLYHEAGQRLRRLQDQLAARDALIARLRARLAALEGDAAPSLVDALLEQVARFREQLRRQEGGAAEAQMRQEIERLTERLEEKEREMQQLLSQPQHEREKEVVLLRRSMAEGERARAASDVLCRSLANETHQLRRTLTATAHMCQHLAKCLDERQHAQRNVGERSPDQSEHTDGHTSVQSVIEKLQEENRLLKQKVTHVEDLNAKWQRYNASRDEYVRGLHAQLRGLQIPHEPELMRKEISRLNRQLEEKINDCAEVKQELAASRTARDAALERVQMLEQQILAYKDDFMSERADRERAQSRIQELEEKVASLLHQVSWRQDSREPDAGRIHAGSKTAKYLAADALELMVPGGWRPGTGSQQPEPPAEGGHPGAAQRGQGDLQCPHCLQCFSDEQGEELLRHVAECCQ |
| 4178 | sp|O14836|TR13B\_HUMAN | MSGLGRSRRGGRSRVDQEERFPQGLWTGVAMRSCPEEQYWDPLLGTCMSCKTICNHQSQRTCAAFCRSLSCRKEQGKFYDHLLRDCISCASICGQHPKQCAYFCENKLRSPVNLPPELRRQRSGEVENNSDNSGRYQGLEHRGSEASPALPGLKLSADQVALVYSTLGLCLCAVLCCFLVAVACFLKKRGDPCSCQPRSRPRQSPAKSSQDHAMEAGSPVSTSPEPVETCSFCFPECRAPTQESAVTPGTPDPTCAGRWGCHTRTTVLQPCPHIPDSGLGIVCVPAQEGGPGA |
| 4179 | sp|Q969S6|TM203\_HUMAN | MLFSLRELVQWLGFATFEIFVHLLALLVFSVLLALRVDGLVPGLSWWNVFVPFFAADGLSTYFTTIVSVRLFQDGEKRLAVLRLFWVLTVLSLKFVFEMLLCQKLAEQTRELWFGLITSPLFILLQLLMIRACRVN |
| 4180 | sp|Q9BVS5|TR61B\_HUMAN | MLMAWCRGPVLLCLRQGLGTNSFLHGLGQEPFEGARSLCCRSSPRDLRDGEREHEAAQRKAPGAESCPSLPLSISDIGTGCLSSLENLRLPTLREESSPRELEDSSGDQGRCGPTHQGSEDPSMLSQAQSATEVEERHVSPSCSTSRERPFQAGELILAETGEGETKFKKLFRLNNFGLLNSNWGAVPFGKIVGKFPGQILRSSFGKQYMLRRPALEDYVVLMKRGTAITFPKDINMILSMMDINPGDTVLEAGSGSGGMSLFLSKAVGSQGRVISFEVRKDHHDLAKKNYKHWRDSWKLSHVEEWPDNVDFIHKDISGATEDIKSLTFDAVALDMLNPHVTLPVFYPHLKHGGVCAVYVVNITQVIELLDGIRTCELALSCEKISEVIVRDWLVCLAKQKNGILAQKVESKINTDVQLDSQEKIGVKGELFQEDDHEESHSDFPYGSFPYVARPVHWQPGHTAFLVKLRKVKPQLN |
| 4181 | sp|Q13077|TRAF1\_HUMAN | MASSSGSSPRPAPDENEFPFGCPPTVCQDPKEPRALCCAGCLSENPRNGEDQICPKCRGEDLQSISPGSRLRTQEKAHPEVAEAGIGCPFAGVGCSFKGSPQSVQEHEVTSQTSHLNLLLGFMKQWKARLGCGLESGPMALEQNLSDLQLQAAVEVAGDLEVDCYRAPCSESQEELALQHFMKEKLLAELEGKLRVFENIVAVLNKEVEASHLALATSIHQSQLDRERILSLEQRVVELQQTLAQKDQALGKLEQSLRLMEEASFDGTFLWKITNVTRRCHESACGRTVSLFSPAFYTAKYGYKLCLRLYLNGDGTGKRTHLSLFIVIMRGEYDALLPWPFRNKVTFMLLDQNNREHAIDAFRPDLSSASFQRPQSETNVASGCPLFFPLSKLQSPKHAYVKDDTMFLKCIVETST |
| 4182 | sp|Q13507|TRPC3\_HUMAN | MREKGRRQAVRGPAFMFNDRGTSLTAEEERFLDAAEYGNIPVVRKMLEESKTLNVNCVDYMGQNALQLAVGNEHLEVTELLLKKENLARIGDALLLAISKGYVRIVEAILNHPGFAASKRLTLSPCEQELQDDDFYAYDEDGTRFSPDITPIILAAHCQKYEVVHMLLMKGARIERPHDYFCKCGDCMEKQRHDSFSHSRSRINAYKGLASPAYLSLSSEDPVLTALELSNELAKLANIEKEFKNDYRKLSMQCKDFVVGVLDLCRDSEEVEAILNGDLESAEPLEVHRHKASLSRVKLAIKYEVKKFVAHPNCQQQLLTIWYENLSGLREQTIAIKCLVVLVVALGLPFLAIGYWIAPCSRLGKILRSPFMKFVAHAASFIIFLGLLVFNASDRFEGITTLPNITVTDYPKQIFRVKTTQFTWTEMLIMVWVLGMMWSECKELWLEGPREYILQLWNVLDFGMLSIFIAAFTARFLAFLQATKAQQYVDSYVQESDLSEVTLPPEIQYFTYARDKWLPSDPQIISEGLYAIAVVLSFSRIAYILPANESFGPLQISLGRTVKDIFKFMVLFIMVFFAFMIGMFILYSYYLGAKVNAAFTTVEESFKTLFWSIFGLSEVTSVVLKYDHKFIENIGYVLYGIYNVTMVVVLLNMLIAMINSSYQEIEDDSDVEWKFARSKLWLSYFDDGKTLPPPFSLVPSPKSFVYFIMRIVNFPKCRRRRLQKDIEMGMGNSKSRLNLFTQSNSRVFESHSFNSILNQPTRYQQIMKRLIKRYVLKAQVDKENDEVNEGELKEIKQDISSLRYELLEDKSQATEELAILIHKLSEKLNPSMLRCE |
| 4183 | sp|A5A6I6|TRFE\_PANTR | MRLAVGALLVCAVLGLCLAVPDKTVRWCAVSEHEATKCQSFRDHMKSVIPSDGPSVACVKKASYLDCIRAIAANEADAVTLDAGLVYDAYLAPNNLKPVVAEFYGSKEDPQTFYYAVAVVKKDSGFQMNQLRGKKSCHTGLGRSAGWNIPIGLLYCDLPEPRKPLEKAVANFFSGSCAPCADGTDFPQLCQLCPGCGCSTLNQYFGYSGAFKCLKDGAGDVAFVKHSTIFENLANKADRDQYELLCLDNTRKPVDEYKDCHLAQVPSHTVVARSMGGKEDLIWELLNQAQEHFGKDKSKEFQLFSSPHGKDLLFKDSAHGFLKVPPRMDAKMYLGYEYVTAIRNLREGTCPEATTDECKPVKWCALSHHERLKCDEWSVNSVGKIECVSAETTEDCIAKIMNGEADAMSLDGGFVYIAGKCGLVPVLAENYNKNDNCEDTPEAGYFAVAVVKKSASDLTWDNLKGKKSCHTAVGRTAGWNIPMGLLYNKINHCRFDEFFSEGCAPGSKKDSSLCKLCMGSGPNLCEPNNKEGYYGYTGAFRCLVEKGDVAFVKHQTVPQNTGGKNPDPWAKNLNEKDYELLCLDGTRKPVKEYANCHLARAPNHAVVTRKDKEACVHKILRQQQHLFGSNVTDCSGNFCLFRSETKDLLFRDDTVCLAKLHDRNTYEKYLGEEYVKAVGNLRKCSTSSLLEACTFRRP |
| 4184 | sp|Q96FX7|TRM61\_HUMAN | MSFVAYEELIKEGDTAILSLGHGAMVAVRVQRGAQTQTRHGVLRHSVDLIGRPFGSKVTCGRGGWVYVLHPTPELWTLNLPHRTQILYSTDIALITMMLELRPGSVVCESGTGSGSVSHAIIRTIAPTGHLHTVEFHQQRAEKAREEFQEHRVGRWVTVRTQDVCRSGFGVSHVADAVFLDIPSPWEAVGHAWDALKVEGGRFCSFSPCIEQVQRTCQALAARGFSELSTLEVLPQVYNVRTVSLPPPDLGTGTDGPAGSDTSPFRSGTPMKEAVGHTGYLTFATKTPG |
| 4185 | sp|P0DSE1|TRAR1\_HUMAN | MVLKFSVSILWIQLAWVSTQLLEQSPQFLSIQEGENLTVYCNSSSVFSSLQWYRQEPGEGPVLLVTVVTGGEVKKLKRLTFQFGDARKDSSLHITAAQPGDTGLYLCAGGGSQGNLIFGKGTKLSVKPIQNPDPAVYQLRDSKSSDKSVCLFTDFDSQTNVSQSKDSDVYITDKTVLDMRSMDFKSNSAVAWSNKSDFACANAFNNSIIPEDTFFPSPESSCDVKLVEKSFETDTNLNFQNLSVIGFRILLLKVAGFNLLMTLRLWSS |
| 4186 | sp|Q93096|TP4A1\_HUMAN | MARMNRPAPVEVTYKNMRFLITHNPTNATLNKFIEELKKYGVTTIVRVCEATYDTTLVEKEGIHVLDWPFDDGAPPSNQIVDDWLSLVKIKFREEPGCCIAVHCVAGLGRAPVLVALALIEGGMKYEDAVQFIRQKRRGAFNSKQLLYLEKYRPKMRLRFKDSNGHRNNCCIQ |
| 4187 | sp|P25823|TUD\_DROME | MNGQARIALPSKVDLYITHVDHVGPYLKVYGHVNRDAASLISERIRNLLPTCFAIEPSWSVERQQALLIPGTFCIFKNINGPAPGDVEYRRIRVVSADLEGQSMRAEIDFVDFGYKRTVDSHDLMFPKQPKLLQNIPLHCFQYIVLGICSEWDQTDLAEVRRLVVNQIVKITVEPTQICDQKFASLRWKDFELNEFLVQQKQIGVSVDKQLMMDHCKKLWKDNPQSPVTEYNNNSIHNSKTPMEIAREQLAVRQSLAARLDAQRSVQVTPSRPLNADAPDYTPKHLPLVNVTNVQVQMPGLNNTQKPVFVSTNPYNRANYQPAVPAAQPYVPKANPRSQYTYYNVRMNKPINAMPPPAGPHVPIQHFNQQANNVSLSYVPARFTPPPTPSIAQHQIPIPAFRTTSLTVGLTYDVVISYVENGPYLFWVHLKSSDHDLSTMMGQIERTKLKALAQAPELGTACVARFSEDGHLYRAMVCAVYAQRYRVVYVDYGNSELLSASDLFQIPPELLEIKPFAFRFALAGTKEIEPIDDSMKRIFKKSAIYRNFELTVQAPESVGSMQTCHLNQNGTNMLELLRQLKNSRQSYKKAEQLENDDAVEIRFIDSPSNFYVQKVANIGKFEQLMDEMFSYYNANQRVPDQLILGAPCIVKCDQEWYRAEILRVDDSVIVRHVDFGYEQNVKRHLIGHIAEKHLEMPRQAIKCCLKGFENSELSEDKITDQFEMLAEESNIRRRTFSVRIFRIEPDGLNVVNLLAKNLNVMKKLYKLSMPFEQYLSLEKGQFNANNTRAESVISSELNKSHILNSTSIGETENRLQEQEKEQQQKKVDVRQQQLAVEIPQAVKSVSGSKNSTDWDKRSSTSAGSKDSKRQQQQQIQRIDRHLDFSCETQSTGSYSSGMSSPRKGNRQQNGRTPIQSPRHNEKQEAKKNARFSNSESPRRSRDGQQGNQRSQNAPQGYAQKPQRQKSTLDGNISSKRSSGVGSDIASSSSESVAAAKPEKYVSLDKPYALQEMKTPSKEAASLSWWLSPFQFYIVPKSVSAKYDNIMRDMREFYRQKQHQPLQLKVGSTVVVRQRKDNAILRATVTACNHMMRKYRVFCVDTGSLITVTSEDIWQLEQRFADPPCMAHRCSFHSVVTNYDPLYIVDRMETFVPVNAKVDCEFVSKEKSNQGSNTSSTCSYTVNIFVNGASLRDMLVKAEFLTEVAPEIRVNLLAGQQIRGKFTSIRDMTSFKVQFDYGNNVNFLCTYDDAKFVKSNPNLARRFKEFYEGKSFALNVKNVCENNIVHLRPVMPLFMEDRRSFICPYPVVLSSFQALVVYTAKPYRVYVQPQAIVPSMQTLLDNMYEHYKAKGDSLKKFDVGQICAVRSSDGNWYRARISGKDSNAACFEVFYIDYGNTEEIKRDDIKALDAKFYEHASGFAVEINLPIGRPSNDTKLKARISEILEEKVVTIKSIEVRRSHLIADVILENNQSVIDLLKAEKLVPGKDLDYMRKQMEKGKSRTYEYIETVDLTLDEEEDKGRKETVSKSGSANASPKKKQHNDKDREPKKSKPAEPARTVAPQPVALKTPSPVPAEPAPVPKPATPVPEVVEVPEINPTVREAAAESKQAPAQEDPYKDLDCVVLSHCDNPAQFYVHPIDQLSKLNQLHENLQIVSPSLPQLMNVVNGADCVSMYSVDKCWYRAKIIDAELMVLLFIDYGNTDCVSDATDIKESMWSHIEPFCLPCALPIRPKGTADWVDAANGIFNESYSKVPRLEYLTQGDHYTTSYVNMYIDGEDVAKKLIADGFARPLEYLASGCSCYISHVNGICDFFIQLERDSKALELIELYLRKKDTLKPLEGFEKGLIVAALFEDDELWYRAQLQKELPDSRYEVLFIDYGNTSTTSKCLMLSEEIASLPSLSKKCSLQLPDAYISWSPEAEAKFAELTGEGELVFTTQLLKPGQDHVTIDLLLDGENIIDRLLPLCQRKEPKEASKESLAVTTKAIITHVENTSRIYLQFSEKDSLMDIICEKLNGSKLQPKTEKAAVDDMCVVQFADDLEFYRSRILEVLEDDQYKVILIDYGNTTVVDKLYELPQEFTLIKPVAEICSMEPSAIFEKNKALTLTTFDALLDSCKGVVAVEFVNKSASPPVVRLTTKDKRSLKIYEHLQKLVQAELKLIQKRNENSECIISYGNSPKSFYVQMKHNSADLDLIVKTLQSLKKEKLKKLIDPTTNSNGVCYSQEDACYYRCSIKSVLDPSQGFEVFLLDYGNTLVVPEVWQLPQEIEPIPSLALHCQLSKIPMDVSDEKLEEAFAALLEQHFGELYEITTQPNEDETKPLIAELRINYKDFVQELVSTVTGVQKPLEAELHNCVVVQFDGPMSFYVQMESDVPALEQMTDKLLDAEQDLPAFSDLKEGALCVAQFPEDEVFYRAQIRKVLDDGKCEVHFIDFGNNAVTQQFRQLPEELAKPARYSRHCELDASTISKCDAALLQSFIDTRFSETFQVEILATKGTGTHVVRLFYQSKNISEKLQECQ |
| 4188 | sp|Q86MV5|TUT2\_TRYBB | MLMHTAPWLHMRLSRLFRQSPLSLPSTKLNPSPDHYAVWGKAIMAENNRRVGPEHMFRTAIRAQQQLQGLADKWTPDAKVYCCGSMVTYGQMEWGSDLDLACMFDDPYPSHEVQAKRTDKLWTVIKRYVPHYLRNNLLGLTEARTPVVKLRFANDEKVARARYTPLSEEEDRKARTALLDVRNQCVGDNDVEYIAEKMGRDNVEGIWVDRTTYGCRIAIQCTSKEQMIEAIGFFPDGKIMTRGMREDYTRDVLDVRFVPEMFMYRWDISFVGYGVKNSYLIRHYLHNGPVAARHTAMAVKAWGKATNVGAGSGAMLTSYAVTVMFIYYLLVTRQVLWVDPWSLPHPAHLPRYPDFSPLYDCDPTELGRLLHGFFIFYAHHFDYEREVVSLNRNRRSYRSDIGWNFPQNKKGTFSYNFCIEDPYEDVGTGGLNLVRHLHPAKFQLVKQEFLRAAQCMERFLPTNAPEKSILGVKRADLRHFERDRDRE |
| 4189 | sp|Q9JHH2|TSN32\_MOUSE | MGHWNRIKIAKCQILITNFLVLLLGLSMATMVVVIHFGDHFTVIGHASLERNPYETLRYWAFYVGISLAGLLSLGAALSTIATVREAHGLMAAGFLCFALSFCILVQVAFWRFYNPTQVEDAVLDTYDFVYDQAMKSPSSNWWQELAVIQDTFLCCGKKSPFGLLVSTGAIMCQGREAMREDCLQSIRNVLWTHYSIASILTCTSLALTVYAMMLCAFLWFAIHSYHGLDRKGRYSLTPPRSHGFQTQEPSLFRWT |
| 4190 | sp|O75896|TUSC2\_HUMAN | MGASGSKARGLWPFASAAGGGGSEAAGAEQALVRPRGRAVPPFVFTRRGSMFYDEDGDLAHEFYEETIVTKNGQKRAKLRRVHKNLIPQGIVKLDHPRIHVDFPVILYEV |
| 4191 | sp|Q6DKK2|TTC19\_HUMAN | MFRLLSWSLGRGFLRAAGRRCRGCSARLLPGLAGGPGPEVQVPPSRVAPHGRGPGLLPLLAALAWFSRPAAAEEEEQQGADGAAAEDGADEAEAEIIQLLKRAKLSIMKDEPEEAELILHDALRLAYQTDNKKAITYTYDLMANLAFIRGQLENAEQLFKATMSYLLGGGMKQEDNAIIEISLKLASIYAAQNRQEFAVAGYEFCISTLEEKIEREKELAEDIMSVEEKANTHLLLGMCLDACARYLLFSKQPSQAQRMYEKALQISEEIQGERHPQTIVLMSDLATTLDAQGRFDEAYIYMQRASDLARQINHPELHMVLSNLAAVLMHRERYTQAKEIYQEALKQAKLKKDEISVQHIREELAELSKKSRPLTNSVKL |
| 4192 | sp|Q9WU56|TRUA\_MOUSE | MGFPRLWAALLRNWGRWTARPGPRVPGLPPMAGNKVPPALASHQPDRKGRGGWVWEETEHPAKRVKGGEDEEPPRKLPKRKIVLLMAYSGKGYHGMQRNLGSSQFRTIEDDLVSALVQAGCIPENHGTDMRKMSFQRCARTDKGVSAAGQVVSLKVWLIDDILDKINSHLPSHIRILGLKRVTGGFNSKNKCDARTYCYMLPTFAFAHKDRDVQDESYRLSAETLQQVNRLLACYKGTHNFHNFTSQKGPREPSARRYILEMYCEEPFVREGLEFAVIKVKGQSFMMHQIRKMVGLVVAIVKGYAPESVLERSWGEEKVDVPKAPGLGLVLERVHFEKYNQRFGGDGLHEPLDWTQEEGKVTAFKEQYIYPTIVSTERDERSMAQWLNTLPIHNFSGTALGAADTGAKVPSSLEGSEGDGDTD |
| 4193 | sp|P50637|TSPO\_MOUSE | MPESWVPAVGLTLVPSLGGFMGAYFVRGEGLRWYASLQKPSWHPPRWTLAPIWGTLYSAMGYGSYIVWKELGGFTEDAMVPLGLYTGQLALNWAWPPIFFGARQMGWALADLLLVSGVATATTLAWHRVSPPAARLLYPYLAWLAFATVLNYYVWRDNSGRRGGSRLPE |
| 4194 | sp|Q15696|U2AFM\_HUMAN | MAAPEKMTFPEKPSHKKYRAALKKEKRKKRRQELARLRDSGLSQKEEEEDTFIEEQQLEEEKLLERERQRLHEEWLLREQKAQEEFRIKKEKEEAAKKRQEEQERKLKEQWEEQQRKEREEEEQKRQEKKEKEEALQKMLDQAENELENGTTWQNPEPPVDFRVMEKDRANCPFYSKTGACRFGDRCSRKHNFPTSSPTLLIKSMFTTFGMEQCRRDDYDPDASLEYSEEETYQQFLDFYEDVLPEFKNVGKVIQFKVSCNLEPHLRGNVYVQYQSEEECQAALSLFNGRWYAGRQLQCEFCPVTRWKMAICGLFEIQQCPRGKHCNFLHVFRNPNNEFWEANRDIYLSPDRTGSSFGKNSERRERMGHHDDYYSRLRGRRNPSPDHSYKRNGESERKSSRHRGKKSHKRTSKSRERHNSRSRGRNRDRSRDRSRGRGSRSRSRSRSRRSRRSRSQSSSRSRSRGRRRSGNRDRTVQSPKSK |
| 4195 | sp|P0CS16|UBC2\_CRYNJ | MSTAAKRRLIRDFKRLTSDAPIGISGSPNPDNIMVWNAVIFGPPETPFEDGSFRLTLTFTDAYPNKPPTVRFISKMFHPNIYANGELCLDILQNRWSPTYDVAAILTSVQSLLNDPNPASPANVDAAQLFKENLKEYERRVKKTVELSWVDNADEIEAEVVEADEGSSS |
| 4196 | sp|P35131|UBC8\_ARATH | MASKRILKELKDLQKDPPTSCSAGPVAEDMFHWQATIMGPAESPYSGGVFLVTIHFPPDYPFKPPKVAFRTKVFHPNINSNGSICLDILKEQWSPALTISKVLLSICSLLTDPNPDDPLVPEIAHMYKTDRAKYEATARNWTQKYAMG |
| 4197 | sp|P19334|TRP\_DROME | MGSNTESDAEKALGSRLDYDLMMAEEYILSDVEKNFILSCERGDLPGVKKILEEYQGTDKFNINCTDPMNRSALISAIENENFDLMVILLEHNIEVGDALLHAISEEYVEAVEELLQWEETNHKEGQPYSWEAVDRSKSTFTVDITPLILAAHRNNYEILKILLDRGATLPMPHDVKCGCDECVTSQMTDSLRHSQSRINAYRALSASSLIALSSRDPVLTAFQLSWELKRLQAMESEFRAEYTEMRQMVQDFGTSLLDHARTSMELEVMLNFNHEPSHDIWCLGQRQTLERLKLAIRYKQKTFVAHPNVQQLLAAIWYDGLPGFRRKQASQQLMDVVKLGCSFPIYSLKYILAPDSEGAKFMRKPFVKFITHSCSYMFFLMLLGAASLRVVQITFELLAFPWMLTMLEDWRKHERGSLPGPIELAIITYIMALIFEELKSLYSDGLFEYIMDLWNIVDYISNMFYVTWILCRATAWVIVHRDLWFRGIDPYFPREHWHPFDPMLLSEGAFAAGMVFSYLKLVHIFSINPHLGPLQVSLGRMIIDIIKFFFIYTLVLFAFGCGLNQLLWYYAELEKNKCYHLHPDVADFDDQEKACTIWRRFSNLFETSQSLFWASFGLVDLVSFDLAGIKSFTRFWALLMFGSYSVINIIVLLNMLIAMMSNSYQIISERADTEWKFARSQLWMSYFEDGGTIPPPFNLCPNMKMLRKTLGRKRPSRTKSFMRKSMERAQTLHDKVMKLLVRRYITAEQRRRDDYGITEDDIIEVRQDISSLRFELLEIFTNNNWDVPDIEKKSQGVARTTKGKVMERRILKDFQIGFVENLKQEMSESESGRDIFSSLAKVIGRKKTQKGDKDWNAIARKNTFASDPIGSKRSSMQRHSQRSLRRKIIEQANEGLQMNQTQLIEFNPNLGDVTRATRVAYVKFMRKKMAADEVSLADDEGAPNGEGEKKPLDASGSKKSITSGGTGGGASMLAAAALRASVKNVDEKSGADGKPGTMGKPTDDKKAGDDKDKQQPPKDSKPSAGGPKPGDQKPTPGAGAPKPQAAGTISKPGESQKKDAPAPPTKPGDTKPAAPKPGESAKPEAAAKKEESSKTEASKPAATNGAAKSAAPSAPSDAKPDSKLKPGAAGAPEATKATNGASKPDEKKSGPEEPKKAAGDSKPGDDAKDKDKKPGDDKDKKPGDDKDKKPADNNDKKPADDKDKKPGDDKDKKPGDDKDKKPSDDKDKKPADDKDKKPAAAPLKPAIKVGQSSAAAGGERGKSTVTGRMISGWL |
| 4198 | sp|P00904|TRPGD\_ECOLI | MADILLLDNIDSFTYNLADQLRSNGHNVVIYRNHIPAQTLIERLATMSNPVLMLSPGPGVPSEAGCMPELLTRLRGKLPIIGICLGHQAIVEAYGGYVGQAGEILHGKASSIEHDGQAMFAGLTNPLPVARYHSLVGSNIPAGLTINAHFNGMVMAVRHDADRVCGFQFHPESILTTQGARLLEQTLAWAQQKLEPANTLQPILEKLYQAQTLSQQESHQLFSAVVRGELKPEQLAAALVSMKIRGEHPNEIAGAATALLENAAPFPRPDYLFADIVGTGGDGSNSINISTASAFVAAACGLKVAKHGNRSVSSKSGSSDLLAAFGINLDMNADKSRQALDELGVCFLFAPKYHTGFRHAMPVRQQLKTRTLFNVLGPLINPAHPPLALIGVYSPELVLPIAETLRVLGYQRAAVVHSGGMDEVSLHAPTIVAELHDGEIKSYQLTAEDFGLTPYHQEQLAGGTPEENRDILTRLLQGKGDAAHEAAVAANVAMLMRLHGHEDLQANAQTVLEVLRSGSAYDRVTALAARG |
| 4199 | sp|O59954|UBA4\_EMENI | MEDLETRCASLRTEIAAAEAQLTKLKRELHEAEGAALRAQSQKTASANATTGQRTKSKWPLHGEEYRRYGRQMIVPQFGLQGQLKLRDAKVLIVGAGGLGCPAALYLAGAGVGTIGLVDGDTVEASNLHRQVLHRSRNVGKLKVDSAIEYLRELNPHPTYIAHQAHLTPREAPDIFKDYDLILDCTDNPATRYLISDTAVLLGKPLVSASALRTEGQLMVLNNPPQPPGDKTGGPCYRCVFPKPPPANSVTSCADGGILGPVVGTMGVLQASEAIKVLTSAGESVEATPPSLLIFSAYSSPQFRTIKLRSRRPNCAVCSAEATVTLESVRSGSMDYVFFCGTVDPADILSPEERISPSEYGNVDSAGAQRHIIDVREKVQFDICSLENSINIPMSTILASAYSAPTLDADEPKRLPSWLPPEVAHESNKPIYVVCRQGNDSQTVVRKLKELGLDHGGERPVVDIKGGFRSWREQVDPDWPDY |
| 4200 | sp|P07649|TRUA\_ECOLI | MSDQQQPPVYKIALGIEYDGSKYYGWQRQNEVRSVQEKLEKALSQVANEPITVFCAGRTDAGVHGTGQVVHFETTALRKDAAWTLGVNANLPGDIAVRWVKTVPDDFHARFSATARRYRYIIYNHRLRPAVLSKGVTHFYEPLDAERMHRAAQCLLGENDFTSFRAVQCQSRTPWRNVMHINVTRHGPYVVVDIKANAFVHHMVRNIVGSLMEVGAHNQPESWIAELLAAKDRTLAAATAKAEGLYLVAVDYPDRYDLPKPPMGPLFLAD |
| 4201 | sp|Q15361|TTF1\_HUMAN | MEGESSRFEIHTPVSDKKKKKCSIHKERPQKHSHEIFRDSSLVNEQSQITRRKKRKKDFQHLISSPLKKSRICDETANATSTLKKRKKRRYSALEVDEEAGVTVVLVDKENINNTPKHFRKDVDVVCVDMSIEQKLPRKPKTDKFQVLAKSHAHKSEALHSKVREKKNKKHQRKAASWESQRARDTLPQSESHQEESWLSVGPGGEITELPASAHKNKSKKKKKKSSNREYETLAMPEGSQAGREAGTDMQESQPTVGLDDETPQLLGPTHKKKSKKKKKKKSNHQEFEALAMPEGSQVGSEVGADMQESRPAVGLHGETAGIPAPAYKNKSKKKKKKSNHQEFEAVAMPESLESAYPEGSQVGSEVGTVEGSTALKGFKESNSTKKKSKKRKLTSVKRARVSGDDFSVPSKNSESTLFDSVEGDGAMMEEGVKSRPRQKKTQACLASKHVQEAPRLEPANEEHNVETAEDSEIRYLSADSGDADDSDADLGSAVKQLQEFIPNIKDRATSTIKRMYRDDLERFKEFKAQGVAIKFGKFSVKENKQLEKNVEDFLALTGIESADKLLYTDRYPEEKSVITNLKRRYSFRLHIGRNIARPWKLIYYRAKKMFDVNNYKGRYSEGDTEKLKMYHSLLGNDWKTIGEMVARSSLSVALKFSQISSQRNRGAWSKSETRKLIKAVEEVILKKMSPQELKEVDSKLQENPESCLSIVREKLYKGISWVEVEAKVQTRNWMQCKSKWTEILTKRMTNGRRIYYGMNALRAKVSLIERLYEINVEDTNEIDWEDLASAIGDVPPSYVQTKFSRLKAVYVPFWQKKTFPEIIDYLYETTLPLLKEKLEKMMEKKGTKIQTPAAPKQVFPFRDIFYYEDDSEGEDIEKESEGQAPCMAHACNSSTLGGQGRWII |
| 4202 | sp|O85746|TYRB\_KLEPN | MFQKVDAYAGDPILSLMERFKEDPRSDKVNLSIGLYYNDDGIIPQLQAVAEAEARLNAEPHGASLYLPMEGFSGYRQAIAPLLFGAEHTALKQNRIASIQTVGGSGALKVGADFLKRYFPESHVWVSDPTWENHIAIFEGAGFEVSTYPWFDKATNGVRFENLLAMLQTLPARDIVLLHPCCHNPTGADLTPAQWDRVVEVLKARQLIPFLDIAYQGFGGGLEEDAYAIRAIASAGMPMLVSNSFSKIFSLYGERVGGLSVVCEDSETAGRVLGQLKATVRRNYSSPPSFGAQVVATVLNDAALKATWQAEVDAMRAHILTMRQALVDALQQVAPGSKVDYLLKQRGMFSYTGFSAAQVDRLRDEFGVYLIASGRMRVAGLNSRNVQQVAKAFVAVM |
| 4203 | sp|Q9NZQ8|TRPM5\_HUMAN | MQDVQGPRPGSPGDAEDRRELGLHRGEVNFGGSGKKRGKFVRVPSGVAPSVLFDLLLAEWHLPAPNLVVSLVGEEQPFAMKSWLRDVLRKGLVKAAQSTGAWILTSALRVGLARHVGQAVRDHSLASTSTKVRVVAVGMASLGRVLHRRILEEAQEDFPVHYPEDDGGSQGPLCSLDSNLSHFILVEPGPPGKGDGLTELRLRLEKHISEQRAGYGGTGSIEIPVLCLLVNGDPNTLERISRAVEQAAPWLILVGSGGIADVLAALVNQPHLLVPKVAEKQFKEKFPSKHFSWEDIVRWTKLLQNITSHQHLLTVYDFEQEGSEELDTVILKALVKACKSHSQEPQDYLDELKLAVAWDRVDIAKSEIFNGDVEWKSCDLEEVMVDALVSNKPEFVRLFVDNGADVADFLTYGRLQELYRSVSRKSLLFDLLQRKQEEARLTLAGLGTQQAREPPAGPPAFSLHEVSRVLKDFLQDACRGFYQDGRPGDRRRAEKGPAKRPTGQKWLLDLNQKSENPWRDLFLWAVLQNRHEMATYFWAMGQEGVAAALAACKILKEMSHLETEAEAARATREAKYERLALDLFSECYSNSEARAFALLVRRNRCWSKTTCLHLATEADAKAFFAHDGVQAFLTRIWWGDMAAGTPILRLLGAFLCPALVYTNLITFSEEAPLRTGLEDLQDLDSLDTEKSPLYGLQSRVEELVEAPRAQGDRGPRAVFLLTRWRKFWGAPVTVFLGNVVMYFAFLFLFTYVLLVDFRPPPQGPSGPEVTLYFWVFTLVLEEIRQGFFTDEDTHLVKKFTLYVGDNWNKCDMVAIFLFIVGVTCRMLPSAFEAGRTVLAMDFMVFTLRLIHIFAIHKQLGPKIIVVERMMKDVFFFLFFLSVWLVAYGVTTQALLHPHDGRLEWIFRRVLYRPYLQIFGQIPLDEIDEARVNCSTHPLLLEDSPSCPSLYANWLVILLLVTFLLVTNVLLMNLLIAMFSYTFQVVQGNADMFWKFQRYNLIVEYHERPALAPPFILLSHLSLTLRRVFKKEAEHKREHLERDLPDPLDQKVVTWETVQKENFLSKMEKRRRDSEGEVLRKTAHRVDFIAKYLGGLREQEKRIKCLESQINYCSVLVSSVADVLAQGGGPRSSQHCGEGSQLVAADHRGGLDGWEQPGAGQPPSDT |
| 4204 | sp|P51784|UBP11\_HUMAN | MAVAPRLFGGLCFRFRDQNPEVAVEGRLPISHSCVGCRRERTAMATVAANPAAAAAAVAAAAAVTEDREPQHEELPGLDSQWRQIENGESGRERPLRAGESWFLVEKHWYKQWEAYVQGGDQDSSTFPGCINNATLFQDEINWRLKEGLVEGEDYVLLPAAAWHYLVSWYGLEHGQPPIERKVIELPNIQKVEVYPVELLLVRHNDLGKSHTVQFSHTDSIGLVLRTARERFLVEPQEDTRLWAKNSEGSLDRLYDTHITVLDAALETGQLIIMETRKKDGTWPSAQLHVMNNNMSEEDEDFKGQPGICGLTNLGNTCFMNSALQCLSNVPQLTEYFLNNCYLEELNFRNPLGMKGEIAEAYADLVKQAWSGHHRSIVPHVFKNKVGHFASQFLGYQQHDSQELLSFLLDGLHEDLNRVKKKEYVELCDAAGRPDQEVAQEAWQNHKRRNDSVIVDTFHGLFKSTLVCPDCGNVSVTFDPFCYLSVPLPISHKRVLEVFFIPMDPRRKPEQHRLVVPKKGKISDLCVALSKHTGISPERMMVADVFSHRFYKLYQLEEPLSSILDRDDIFVYEVSGRIEAIEGSREDIVVPVYLRERTPARDYNNSYYGLMLFGHPLLVSVPRDRFTWEGLYNVLMYRLSRYVTKPNSDDEDDGDEKEDDEEDKDDVPGPSTGGSLRDPEPEQAGPSSGVTNRCPFLLDNCLGTSQWPPRRRRKQLFTLQTVNSNGTSDRTTSPEEVHAQPYIAIDWEPEMKKRYYDEVEAEGYVKHDCVGYVMKKAPVRLQECIELFTTVETLEKENPWYCPSCKQHQLATKKLDLWMLPEILIIHLKRFSYTKFSREKLDTLVEFPIRDLDFSEFVIQPQNESNPELYKYDLIAVSNHYGGMRDGHYTTFACNKDSGQWHYFDDNSVSPVNENQIESKAAYVLFYQRQDVARRLLSPAGSSGAPASPACSSPPSSEFMDVN |
| 4205 | sp|Q7TPK1|UHRF1\_RAT | MWIQVRTMDGKETHTVNSLSRLTKVQELRKKIEELFHVEPQLQRLFYRGKQMEDGHTLFDYDVRLNDTIQLLVRQSLALPLSTKERDSELSDSDSGYGVGHSESDKSSTHGEGTADGDDKTVWEDTDLGLYKVNEYVDVRDNIFGAWFEAQVVQVQKKALSEEEPCSSSAIMAPEDDIMYHIKYDDYPEHGVDIVKAKNVRARARTVIPWEDLEVGQVVMANYNVDYPRKRGFWYDVEICRKRQTRTARELYGNVMLLNDSQLNNCRIIFVDEVLKIELPNERSPLIGSPSRRKSGPSCQYCKDDENKPCRKCACHICGGREAPEKQVLCDECDMAFHLYCLQPPLTCVPPEPEWYCPSCRTDSSEVVQAGEKLKKSKKKAKMASATSSSRRDWGKGMACVGRTTECTIVPANHFGPIPGVPVGTMWRFRVQVSESGVHRPHVAGIHGRSNDGAYSLVLAGGYEDDVDNGNFFTYTGSGGRDLSGNKRTAGQSSDQKLTNNNRALALNCHSPINEKGAEAEDWRQGKPVRVVRNMKGGKHSKYAPAEGNRYDGIYKVVKYWPEKGKSGFIVWRYLLRRDDTEPEPWTREGKDRTRQLGLTMQYPEGYLEALANKEKNRKRPAKALEQGPSSSKIGKSKRKSTGPATTSPRVSKKSKLEPYTLPLQQANLIKEDKGNAKLWDDVLSSLQDGPYQIFLSKVKEAFQCICCQELVFRPVTTVCQHNVCKDCLDRSFRAQVFSCPACRYDLDHSSPTRVNQPLQTILNQLFPGYGSGR |
| 4206 | sp|P19595|UGPA\_SOLTU | MATATTLSPADAEKLNNLKSAVAGLNQISENEKSGFINLVGRYLSGEAQHIDWSKIQTPTDEVVVPYDKLAPLSEDPAETKKLLDKLVVLKLNGGLGTTMGCTGPKSVIEVRNGLTFLDLIVKQIEALNAKFGCSVPLLLMNSFNTHDDTLKIVEKYANSNIDIHTFNQSQYPRLVTEDFAPLPCKGNSGKDGWYPPGHGDVFPSLMNSGKLDALLAKGKEYVFVANSDNLGAIVDLKILNHLILNKNEYCMEVTPKTLADVKGGTLISYEGKVQLLEIAQVPDEHVNEFKSIEKFKIFNTNNLWVNLSAIKRLVEADALKMEIIPNPKEVDGVKVLQLETAAGAAIKFFDRAIGANVPRSRFLPVKATSDLLLVQSDLYTLTDEGYVIRNPARSNPSNPSIELGPEFKKVANFLGRFKSIPSIIDLDSLKVTGDVWFGSGVTLKGKVTVAAKSGVKLEIPDGAVIANKDINGPEDI |
| 4207 | sp|Q59KI0|UGP1\_CANAL | MATTGKRHAKSQSTYAFDNTATNVTASQMRNALNNLADTVENPEQTTRFENEMDNFFTLFRRYLTEKASGSTLDWDKIRSPSSDEVVEYGDLNSANNSANLSKLAVLKLNGGLGTSMGCVGPKSVIEVRDGNNFLDLAVRQIEHLNRKYDADVPLLLMNSFNTDADTEKIIKKYQSHRIRVKTFNQSRFPRIYKDSLLPVPESFDDSLEAWYPPGHGDLFEALVQSGELDALLAQGREILFVSNGDNLGATVDSKILDHMIETGAEYIMELTPKTRADVKGGTLINYQGEVRLLEIAQVPKEHVEEFKSIKKFKYFNTNNLWINLRAIKKLVEANAIEVEIIPNQKTISHGKSDINVLQLETAVGAAIRHFKGAHGVVVPRSRFLPVKTCSDLLLVKSDLFYLEHGALVLDPTRDGFSNPLIKLGSHFKKVSGFQSRIPYIPKILELDHLTITGNVTIGKGVQLKGTVIIVCNDGDKIDIPNGAILENVVVTGNLTILEH |
| 4208 | sp|P20153|USP\_DROME | MDNCDQDASFRLSHIKEEVKPDISQLNDSNNSSFSPKAESPVPFMQAMSMVHVLPGSNSASSNNNSAGDAQMAQAPNSAGGSAAAAVQQQYPPNHPLSGSKHLCSICGDRASGKHYGVYSCEGCKGFFKRTVRKDLTYACRENRNCIIDKRQRNRCQYCRYQKCLTCGMKREAVQEERQRGARNAAGRLSASGGGSSGPGSVGGSSSQGGGGGGGVSGGMGSGNGSDDFMTNSVSRDFSIERIIEAEQRAETQCGDRALTFLRVGPYSTVQPDYKGAVSALCQVVNKQLFQMVEYARMMPHFAQVPLDDQVILLKAAWIELLIANVAWCSIVSLDDGGAGGGGGGLGHDGSFERRSPGLQPQQLFLNQSFSYHRNSAIKAGVSAIFDRILSELSVKMKRLNLDRRELSCLKAIILYNPDIRGIKSRAEIEMCREKVYACLDEHCRLEHPGDDGRFAQLLLRLPALRSISLKCQDHLFLFRITSDRPLEELFLEQLEAPPPPGLAMKLE |
| 4209 | sp|P27715|UNC13\_CAEEL | MDDVGDYNDDQLSDGMSMRLLCITIKKARLQGAVDEFNSYVTVKLQTVKSTTVAVRGNLPCWEQEFIFETNRPDDGMVLELWAKGVLWDKLIGVHYMPLSEIRYSNAAGSGQWLQMDHELETRNGQTVGTRGPTGHNLLTDVRFELPFDVQGHDEDIQSRLLALNGLIEHDQLGPNNHHRAPFNHSGLSEDSDYTSDVSVPVNHHQLHPNSSAHQYESHLHPHRTRQLLHTREGAASYEDEEDAYHARHQPESDDYNHQDTYDQHSSYYNDEYAPSGSSSQYQRQGYQDQDQQHQNIYEDTVTPVREFGESAVPPAASSSRRQFDQVYGYASSSEERYDTPMSSGRLPRDEPILEHSEPEYVYDQNGYPEEDNYGINPTYSEDHFEGQTNDYSTTHQEPNDFRNDYNSSYQREYWNESEPLSYNSRPPNGHIRTGANTWREPSTSSRPTSSQAWNYQDDTHQYDEVDRGSRVSFTRTPSVDRTDRPSESGGGFYDEMSESGRPGRPDSHHNWRYDSIQEEDNEKDNWKQHVEGYEEGQEEKQKDNQKPNDHSAASPQDHYHRSDSTAQQDFGNNIVRQTIQEEEEKRNYQELWHNAYKRVCADLGIKSSQASLVATTGGTLLQNLFLYRPKLAPAGHGATASQFQSPAGATRFYANHNNNNNNVSKNELDSTTETPPDPSRTPSTSSMNPVPSLAVPMSPGPYLNSDPPSPVSPNPQIKRSIYRIKESYEDRNGGRERIYTTNLVSVYLEKMKPPDELEEGSSGSMRETQNEIKNGTQLHNAESNIFFPQDSVPKSISYNAGNLKNTSITTSKTSSAITNHSSLPPQPPSKPASRDSDPMKQLLTFSKSFKKVRRVRSAMPRRRKRKRVKIKKSRSCPILWKTEKTPHPMKSKSMTCIRIPKKTVIAPLRKEIKIVRMKPPAARCESDSKAHKKKNLLDVYKDMGKSTVLDGNGSSAANAFYKSIDAAPNMNVARTKTSIPLVSELVLKTMATKRAQAGLANAARTTFSDTELKTHVYKKTLQALIYPISATTPHNFATTTFQTPTFCYECEGLLWGLARQGLRCTQCQVKVHDKCRELLSADCLQRAAEKSTKHGEADRTQSLVNVIRDRMKIQEQNKPEVFQMIRTVFDVDENIQKETLKTVKASILEGSSKWSAKITLTVLCAQGLIAKDKTGKSDPYVTAQVGKTKRRTRTIHQELNPVWNEKFHFECHNSTDRIKVRVWDEDNDLKSKLRQKLTRESDDFLGQTVIEVRTLSGEMDVWYNLEKRTDKSAVSGAIRLHINVEIKGEEKLAPYHVQYTCLHEHLFAAHCVDEEVKLPKVRGEDSWKVCFQETGQEIAEEFAMRYGIESIYQAMTHFACLCTRYMCAGVPAVLSTLLANINAYYAHTTATSAVSAPDRFAASNFGKERFVKLLDQLHNSLRIDLSAYRNHFPSSSPAKLQDLKSTVDLLTSITFFRMKVLELASPPRASTVVRECAKACMQQTYQLMFESCAEQFPILDTSVQFWYEFIDYIMRVIEEDQKNYTPALNQFPQELNVGNLSAETLWSMYKNDLKMALEEHAQKKRCKTPEYMNLYFKVKGFYFKYVADLSTYKSSIPEFPAWFIPFVMDWLNENDEHSMDILRNAYNVDKADNFPQTSEHTKFSNSVVDVFTQLNAALKLLKQMDCPNPEVAADMMKRFSKTLNKVLLAYADMVQKDFPKFAHDEKLACILMNNVQQLRVQLEKIYETMGGAELDEHIGQVLTVLQKKLNSVLDRLSAEFVTTLEPHIHEQTIKLGMLLVKIKGPQLQKTQVQPEADAVLEPLMDLLEGSLRRYADQCEKTVLKYILKELWKITIVNMEKRVVLPPLSDKALLKQLPNAKIGDVTKLMSTNIQSIKGMNSVKDMMDMARESEKSLTPRQCTVLDCALDAIKDSFHASGKGLKKSFFEKSPELQSLKYALSLYTQTTEQLIKTFITSQRQQDLPSQEQPVGEVSVQVDLFSHPGTGEQKVTVKILAANDLRWQTSSAFKPFVEVHLVGPHLSDKKRKWSTKTKAGNWAPKFNETFHFFLGNEGEPEHYELMFQVKDYCFARDDRVVGVGVLQLSSVVDQAGSCAMWVQLGTRLHIDETGLILLRILSQRQTDEVAKDFVRLKTECRYETETVMAASASSQNINRT |
| 4210 | sp|Q64435|UD16\_MOUSE | MACLLPAAQTLPAGFLFLVLWASVLGDKLLVVPQDGSHWLSMKEIVEHLSERGHDIMVLVPEVNLLLGESKYYRRKIFSVTYSLEELQTRFRTFGNNHFLPGASLMGPLREYRNNMIVVDMFFSNCQSLLKDSATLSFLRENKFDALFTDPAMPCGVILAEYLNLPSVYLFRGFPCSLEHMLGQSPSPVSYVPRFYTKFSDHMTFPQRLANFIVNILENYLYYCLYSKYEIIASDLLKRDVSLPSLHQNSLWLLRYDFVFEYPRPVMPNMIFLGGINCKKKGKLTQEFEAYVNASGEHGIVVFSLGSMVSEIPEKKAMEIAEALGRIPQTVLWRYTGTRPSNLAKNTILVKWLPQNDLLGHPKTRAFITHSGSHGIYEGICNGVPMVMMPLFGDQMDNAKRMETRGAGVTLNVLEMTADDLENALKTVINNKSYKENIMRLSSLHKDRPIEPLDLAVFWVEYVMRHKGAPHLRPAAHDLTWYQYHSLDVIGFLLAIVLTVVFIVFKCCAYGCRKCFGGKGRVKKSHKSKTH |
| 4211 | sp|P06133|UD2B4\_HUMAN | MSMKWTSALLLIQLSCYFSSGSCGKVLVWPTEFSHWMNIKTILDELVQRGHEVTVLASSASISFDPNSPSTLKFEVYPVSLTKTEFEDIIKQLVKRWAELPKDTFWSYFSQVQEIMWTFNDILRKFCKDIVSNKKLMKKLQESRFDVVLADAVFPFGELLAELLKIPFVYSLRFSPGYAIEKHSGGLLFPPSYVPVVMSELSDQMTFIERVKNMIYVLYFEFWFQIFDMKKWDQFYSEVLGRPTTLSETMAKADIWLIRNYWDFQFPHPLLPNVEFVGGLHCKPAKPLPKEMEEFVQSSGENGVVVFSLGSMVSNTSEERANVIASALAKIPQKVLWRFDGNKPDTLGLNTRLYKWIPQNDLLGHPKTRAFITHGGANGIYEAIYHGIPMVGVPLFADQPDNIAHMKAKGAAVSLDFHTMSSTDLLNALKTVINDPLYKENAMKLSRIHHDQPVKPLDRAVFWIEFVMRHKGAKHLRVAAHDLTWFQYHSLDVTGFLLACVATVIFIITKCLFCVWKFVRTGKKGKRD |
| 4212 | sp|Q9R0P9|UCHL1\_MOUSE | MQLKPMEINPEMLNKVLAKLGVAGQWRFADVLGLEEETLGSVPSPACALLLLFPLTAQHENFRKKQIEELKGQEVSPKVYFMKQTIGNSCGTIGLIHAVANNQDKLEFEDGSVLKQFLSETEKLSPEDRAKCFEKNEAIQAAHDSVAQEGQCRVDDKVNFHFILFNNVDGHLYELDGRMPFPVNHGASSEDSLLQDAAKVCREFTEREQGEVRFSAVALCKAA |
| 4213 | sp|Q8K1S3|UNC5B\_MOUSE | MRARSGVRSALLLALLLCWDPTPSLAGVDSAGQVLPDSYPSAPAEQLPYFLLEPQDAYIVKNKPVELHCRAFPATQIYFKCNGEWVSQNDHVTQESLDEATGLRVREVQIEVSRQQVEELFGLEDYWCQCVAWSSSGTTKSRRAYIRIAYLRKNFDQEPLAKEVPLDHEVLLQCRPPEGVPVAEVEWLKNEDVIDPAQDTNFLLTIDHNLIIRQARLSDTANYTCVAKNIVAKRRSTTATVIVYVNGGWSSWAEWSPCSNRCGRGWQKRTRTCTNPAPLNGGAFCEGQAFQKTACTTVCPVDGAWTEWSKWSACSTECAHWRSRECMAPPPQNGGRDCSGTLLDSKNCTDGLCVLNQRTLNDPKSHPLETSGDVALYAGLVVAVFVVVAVLMAVGVIVYRRNCRDFDTDITDSSAALTGGFHPVNFKTARPNNPQLLHPSAPPDLTASAGIYRGPVYALQDSADKIPMTNSPLLDPLPSLKIKVYNSSTIGSGSGLADGADLLGVLPPGTYPGDFSRDTHFLHLRSASLGSQHLLGLPRDPSSSVSGTFGCLGGRLSLPGTGVSLLVPNGAIPQGKFYDLYLHINKAESTLPLSEGSQTVLSPSVTCGPTGLLLCRPVVLTVPHCAEVIAGDWIFQLKTQAHQGHWEEVVTLDEETLNTPCYCQLEAKSCHILLDQLGTYVFMGESYSRSAVKRLQLAIFAPALCTSLEYSLRVYCLEDTPVALKEVLELERTLGGYLVEEPKPLLFKDSYHNLRLSLHDIPHAHWRSKLLAKYQEIPFYHVWNGSQRALHCTFTLERHSLASTEFTCKVCVRQVEGEGQIFQLHTTLAETPAGSLDALCSAPGNAITTQLGPYAFKIPLSIRQKICSSLDAPNSRGNDWRLLAQKLSMDRYLNYFATKASPTGVILDLWEARQQDDGDLNSLASALEEMGKSEMLVAMATDGDC |
| 4214 | sp|Q64634|UD18\_RAT | MAPSGCPPSLPLCVCLFLASGFAQAGRLLVVPMDGSHWFTMQMIVEKLSHRGHEVVVVIPEVSWHMGKSLNFTVKLLLVLNTLEDLNYHFKFFAHNQWKTQEVGMFSLLKHSGKGFFELLFSHCRSLFKDKKLVEYLKQSSFDAVFLDPFDVCGLILAKYFSLPSVVFSGGIFCHYLDEGAQCPSPPSYVPRILSKFTDTMTFKERVWNHLSYMKERAFCPYFFKTAVEIASEVLQTPVTMRDLFSPVSIWMFRTDFVLEFPRPMMPNMVYIGGINCHQGKPLSKEFEAYVNASGEHGIVVFSLGSMVSEIPEKKAMEIAEALGRIPQTLLWRYTGTRPSNLAKNTILVKWLPQNDLLGHPKARAFITHSGSHGIYEGICNGVPMVMMPLFGDQMDNAKRMETRGAGVTLNVLEMTADDLENALKTVINNKSYKENIMRLSSLHKDRPIEPLDLAVFWVEYVMRHKGAPHLRPAAHDLTWYQYHSLDVIGFLLAIVLTVVFIVYKSCAYGCRKCFGGKGRVKKSHKSKTH |
| 4215 | sp|Q9SU29|UPL5\_ARATH | MTLSRSSADDSTNNANRSYSAVAGTDNKRKRDEDSSDYVGVAESLEMLKKQEIDADHMAASAQQTLISWRSGENSRSLSSSGECSSSNRPESTRLQIFVRMMSGGKTIVIHAEKYDTVEKLHQRIEWKTKIPALEQRVIYKGKQLQRENSLTYYSIEQDASLQLVARMQSTEHPVAWQTIDDIMYTISRMYKGENLQSNINEKIVTFFAMIPVESDESIAKYLNIFSNSSVPAALVMLYASSLERNKSCAKSSVKLFLSNCVALPKNQKNYCLPIVLEFCKLLRKVCPDQKLYVTCRNTLGSMLETFDNPHGVYNDQYETFGVEIFPFFTELTGLLLNELAQNSGPSFCDFQKVSSFWQQLRKVIELKVAFPIPIVLPMQSTALEAEIRHLHRLFGSLLTTMDLCMCRVESSLADKEVGNSETMSSSWSQYLSILKIINSMSNIYQGAKGQLAVMLNKNKVSFSALVVKFAKRGDDHQWIFEYKEATNFEARRHLAMLLFPDVKEDFEEMHEMLIDRSNLLSESFEYIVGASPEALHGGLFMEFKNEEATGPGVLREWFYLVCQEIFNPKNTLFLRSADDFRRFSPNPASKVDPLHPDFFEFTGRVIALALMHKVQVGVLFDRVFFLQLAGLKISLEDIKDTDRIMYNSCKQILEMDPEFFDSNAGLGLTFVLETEELGKRDTIELCPDGKLKAVNSKNRKQYVDLLIERRFATPILEQVKQFSRGFTDMLSHSVPPRSFFKRLYLEDLDGMLRGGENPISIDDWKAHTEYNGFKETDRQIDWFWKILKKMTEEEQRSILFFWTSNKFVPVEGFRGLSSKLYIYRLYEANDRLPLSHTCFYRLCIPRYPTITLMEQRLRLIAQDHVSSSFGKW |
| 4216 | sp|Q9UHP3|UBP25\_HUMAN | MTVEQNVLQQSAAQKHQQTFLNQLREITGINDTQILQQALKDSNGNLELAVAFLTAKNAKTPQQEETTYYQTALPGNDRYISVGSQADTNVIDLTGDDKDDLQRAIALSLAESNRAFRETGITDEEQAISRVLEASIAENKACLKRTPTEVWRDSRNPYDRKRQDKAPVGLKNVGNTCWFSAVIQSLFNLLEFRRLVLNYKPPSNAQDLPRNQKEHRNLPFMRELRYLFALLVGTKRKYVDPSRAVEILKDAFKSNDSQQQDVSEFTHKLLDWLEDAFQMKAEEETDEEKPKNPMVELFYGRFLAVGVLEGKKFENTEMFGQYPLQVNGFKDLHECLEAAMIEGEIESLHSENSGKSGQEHWFTELPPVLTFELSRFEFNQALGRPEKIHNKLEFPQVLYLDRYMHRNREITRIKREEIKRLKDYLTVLQQRLERYLSYGSGPKRFPLVDVLQYALEFASSKPVCTSPVDDIDASSPPSGSIPSQTLPSTTEQQGALSSELPSTSPSSVAAISSRSVIHKPFTQSRIPPDLPMHPAPRHITEEELSVLESCLHRWRTEIENDTRDLQESISRIHRTIELMYSDKSMIQVPYRLHAVLVHEGQANAGHYWAYIFDHRESRWMKYNDIAVTKSSWEELVRDSFGGYRNASAYCLMYINDKAQFLIQEEFNKETGQPLVGIETLPPDLRDFVEEDNQRFEKELEEWDAQLAQKALQEKLLASQKLRESETSVTTAQAAGDPEYLEQPSRSDFSKHLKEETIQIITKASHEHEDKSPETVLQSAIKLEYARLVKLAQEDTPPETDYRLHHVVVYFIQNQAPKKIIEKTLLEQFGDRNLSFDERCHNIMKVAQAKLEMIKPEEVNLEEYEEWHQDYRKFRETTMYLIIGLENFQRESYIDSLLFLICAYQNNKELLSKGLYRGHDEELISHYRRECLLKLNEQAAELFESGEDREVNNGLIIMNEFIVPFLPLLLVDEMEEKDILAVEDMRNRWCSYLGQEMEPHLQEKLTDFLPKLLDCSMEIKSFHEPPKLPSYSTHELCERFARIMLSLSRTPADGR |
| 4217 | sp|P08542|UDB17\_RAT | MPGKWISALLLLQISCCFQSGNCGKVLVWPMEFSHWMNIKTILDELVQRGHEVTVLKPSAYYVLDPKKSPDLKFETFPTSVSKDELENYFIKLVDVWTYELQRDTCLSYSPLLQNMIDGFSDYYLSLCKDTVSNKQLMAKLQESKFDVLLSDPVAACGELIAEVLHIPFLYSLRFSPGYKIEKSSGRFILPPSYVPVILSGMGGPMTFIDRVKNMICTLYFDFWFHMFNAKKWDPFYSEILGRPTTLAETMGKAEMWLIRSYWDLEFPHPTLPNVDYIGGLQCRPPKPLPKDMEDFVQSSGEHGVVVFSLGSMVSSMTEEKANAIAWALAQIPQKVLWKFDGKTPATLGPNTRVYKWLPQNDLLGHPKTKAFVTHSGANGVYEAIYHGIPMVGIPMFGEQHDNIAHMVAKGAAVTLNIRTMSKSDLFNALKEIINNPFYKKNAVWLSTIHHDQPMKPLDKAVFWIEFVMRHKGAKHLRPLGHDLPWYQYHSLDVIGFLLTCSAVIAVLTVKCFLFIYRLFVKKEKKMKNE |
| 4218 | sp|P57080|UBP25\_MOUSE | MTVEQNVLQQSAAQKHQQTFLNQLREITGINDAQILQQALKDSNGNLELAVAFLTAKNAKTPPQEETGYYQTALPGNDRYISVGSQADANVIDLTGDDKDDLQRAIALSLAESNRAFRETGITDEEQAISRVLEASIAENKACLKRTPIEVWRDSRNPYDRKRQEKAPVGLKNVGNTCWFSAVIQSLFNLLEFRRLVLNYKPPSNAQDLPRNQKEHRNLPFMRELRYLFALLVGTKRKYVDPSRAVEILKDAFKSNDSQQQDVSEFTHKLLDWLEDAFQMKAEEETDEEKPKNPMVELFYGRFLAMGVLEGKKFENTEMFGQYPLQVNGFKDLHECLEAAMIEGEIESLHSDNSGKSGQEHWFTELPPVLTFELSRFEFNQALGRPEKIHNKLEFPQVLYLDRYMHRNREITRIKREEIKRLKDYLTVLQQRLERYLSYGSGPKRFPLVDVLQYALEFASSKPVCTSPVDDIDASSSASGPLPSQSLPSTTEQQGPCASDLPGSSSPASGAALPLRSVIHKPFTQSRIPPDLPMHPAPRHITEEELCVLESCLHRWRTEIENDTRDLQESISRIHRTIELMYSDKSMIQVPYRLHAVLVHEGQANAGHYWAYIFDHRESRWMKYNDIAVTKSSWEELVRDSFGGYRNASAYCLMYIDDKAQFLIQEEFNKETGQALVGMETLPPDLRDFVEEDNQRFEKELEEWDTQLAQRSLQEKLLAAPKLREAEASATTAQAGGADYLEQPSRSDLSKHWKEETLRVIAKASHDLEDKGPETVLQSAIKLEYSRLVKLAQEDTPPETDYRLHHVLVYFIQNQAPKKIIEKTLLEQFGDRNLSFDERCHNIMKVAQAKLEMIKPEEVNLEEYEEWHADYKKFRETTMYLITGLENFQRESYIDSLLFLLCAYQNNKELLSKGPYRGHDGELISHYRRECLLKLNEQAAELFESGEDGDVNNGLIIMNEFIVPFLPLLLVDDMEEKDILAVEDMRNRWCSYLGQEMEANLQEKLTDFLPKLLDCSTEIKGFHEPPKLPSYSAHELCERFARIMLSLSRTPADGR |
| 4219 | sp|Q969M7|UBE2F\_HUMAN | MLTLASKLKRDDGLKGSRTAATASDSTRRVSVRDKLLVKEVAELEANLPCTCKVHFPDPNKLHCFQLTVTPDEGYYQGGKFQFETEVPDAYNMVPPKVKCLTKIWHPNITETGEICLSLLREHSIDGTGWAPTRTLKDVVWGLNSLFTDLLNFDDPLNIEAAEHHLRDKEDFRNKVDDYIKRYAR |
| 4220 | sp|Q70CQ3|UBP30\_HUMAN | MLSSRAEAAMTAADRAIQRFLRTGAAVRYKVMKNWGVIGGIAAALAAGIYVIWGPITERKKRRKGLVPGLVNLGNTCFMNSLLQGLSACPAFIRWLEEFTSQYSRDQKEPPSHQYLSLTLLHLLKALSCQEVTDDEVLDASCLLDVLRMYRWQISSFEEQDAHELFHVITSSLEDERDRQPRVTHLFDVHSLEQQSEITPKQITCRTRGSPHPTSNHWKSQHPFHGRLTSNMVCKHCEHQSPVRFDTFDSLSLSIPAATWGHPLTLDHCLHHFISSESVRDVVCDNCTKIEAKGTLNGEKVEHQRTTFVKQLKLGKLPQCLCIHLQRLSWSSHGTPLKRHEHVQFNEFLMMDIYKYHLLGHKPSQHNPKLNKNPGPTLELQDGPGAPTPVLNQPGAPKTQIFMNGACSPSLLPTLSAPMPFPLPVVPDYSSSTYLFRLMAVVVHHGDMHSGHFVTYRRSPPSARNPLSTSNQWLWVSDDTVRKASLQEVLSSSAYLLFYERVLSRMQHQSQECKSEE |
| 4221 | sp|Q9V7P1|UTP18\_DROME | MSSDESSDGLEELQSLKALYGQQEQEKPAKIKRERYIPKASQAKELNYVEVPMEKVLFGDRQRLLTNLAKSVGQKLPNDDEDEQEENPGQAKPGDKRKAAWSDSDDEDLQVGDVKKATKHTGPLNHLRKDKSYKEYLTARFQRTLNQPKWAEKKVKNEDDEDVSSDEELLRTVGFIDRKARNSDLPQKTLNFKRVKDLNRATYAEGNATSIQFHPTSTAALVAGMNGLATIYAVDGQKNERLHNMRFKKFPLACSRIAPCGTRAFFGSVKPFYYSYDLLEAKESKLKLPGAMEFMHRFEVSPCGKFIVTAGKFGAIHLLTAKTNELLHSFKQEGKVKGFTWSSDSKRILVCGSTSNVSVLNLRQNLIEHIFMDDGCIHGESIQLSPNQRLLATGSQEGVVNIYDYESIFASKAPQPEKRFMNLRTAITDLQFNHSSELLAMCSSEAPNAFKLAHFPSATVYSNFPAQNEKVGFVTSMAFSPHSSFLAFATKGKQVPLFRLKYFKGY |
| 4222 | sp|Q9Y5Z9|UBIA1\_HUMAN | MAASQVLGEKINILSGETVKAGDRDPLGNDCPEQDRLPQRSWRQKCASYVLALRPWSFSASLTPVALGSALAYRSHGVLDPRLLVGCAVAVLAVHGAGNLVNTYYDFSKGIDHKKSDDRTLVDRILEPQDVVRFGVFLYTLGCVCAACLYYLSPLKLEHLALIYFGGLSGSFLYTGGIGFKYVALGDLIILITFGPLAVMFAYAIQVGSLAIFPLVYAIPLALSTEAILHSNNTRDMESDREAGIVTLAILIGPTFSYILYNTLLFLPYLVFSILATHCTISLALPLLTIPMAFSLERQFRSQAFNKLPQRTAKLNLLLGLFYVFGIILAPAGSLPKI |
| 4223 | sp|Q5T4S7|UBR4\_HUMAN | MATSGGEEAAAAAPAPGTPATGADTTPGWEVAVRPLLSASYSAFEMKELPQLVASVIESESEILHHEKQYEPFYSSFVALSTHYITTVCSLIPRNQLQSVAAACKVLIEFSLLRLENPDEACAVSQKHLILLIKGLCTGCSRLDRTEIITFTAMMKSAKLPQTVKTLSDVEDQKELASPVSPELRQKEVQMNFLNQLTSVFNPRTVASQPISTQTLVEGENDEQSSTDQASAIKTKNVFIAQNVASLQELGGSEKLLRVCLNLPYFLRYINRFQDAVLANSFFIMPATVADATAVRNGFHSLVIDVTMALDTLSLPVLEPLNPSRLQDVTVLSLSCLYAGVSVATCMAILHVGSAQQVRTGSTSSKEDDYESDAATIVQKCLEIYDMIGQAISSSRRAGGEHYQNFQLLGAWCLLNSLFLILNLSPTALADKGKEKDPLAALRVRDILSRTKEGVGSPKLGPGKGHQGFGVLSVILANHAIKLLTSLFQDLQVEALHKGWETDGPPAALSIMAQSTSIQRIQRLIDSVPLMNLLLTLLSTSYRKACVLQRQRKGSMSSDASASTDSNTYYEDDFSSTEEDSSQDDDSEPILGQWFEETISPSKEKAAPPPPPPPPPLESSPRVKSPSKQAPGEKGNILASRKDPELFLGLASNILNFITSSMLNSRNNFIRNYLSVSLSEHHMATLASIIKEVDKDGLKGSSDEEFAAALYHFNHSLVTSDLQSPNLQNTLLQQLGVAPFSEGPWPLYIHPQSLSVLSRLLLIWQHKASAQGDPDVPECLKVWDRFLSTMKQNALQGVVPSETEDLNVEHLQMLLLIFHNFTETGRRAILSLFVQIIQELSVNMDAQMRFVPLILARLLLIFDYLLHQYSKAPVYLFEQVQHNLLSPPFGWASGSQDSNSRRATTPLYHGFKEVEENWSKHFSSDAVPHPRFYCVLSPEASEDDLNRLDSVACDVLFSKLVKYDELYAALTALLAAGSQLDTVRRKENKNVTALEACALQYYFLILWRILGILPPSKTYINQLSMNSPEMSECDILHTLRWSSRLRISSYVNWIKDHLIKQGMKAEHASSLLELASTTKCSSVKYDVEIVEEYFARQISSFCSIDCTTILQLHEIPSLQSIYTLDAAISKVQVSLDEHFSKMAAETDPHKSSEITKNLLPATLQLIDTYASFTRAYLLQNFNEEGTTEKPSKEKLQGFAAVLAIGSSRCKANTLGPTLVQNLPSSVQTVCESWNNINTNEFPNIGSWRNAFANDTIPSESYISAVQAAHLGTLCSQSLPLAASLKHTLLSLVRLTGDLIVWSDEMNPPQVIRTLLPLLLESSTESVAEISSNSLERILGPAESDEFLARVYEKLITGCYNILANHADPNSGLDESILEECLQYLEKQLESSQARKAMEEFFSDSGELVQIMMATANENLSAKFCNRVLKFFTKLFQLTEKSPNPSLLHLCGSLAQLACVEPVRLQAWLTRMTTSPPKDSDQLDVIQENRQLLQLLTTYIVRENSQVGEGVCAVLLGTLTPMATEMLANGDGTGFPELMVVMATLASAGQGAGHLQLHNAAVDWLSRCKKYLSQKNVVEKLNANVMHGKHVMILECTCHIMSYLADVTNALSQSNGQGPSHLSVDGEERAIEVDSDWVEELAVEEEDSQAEDSDEDSLCNKLCTFTITQKEFMNQHWYHCHTCKMVDGVGVCTVCAKVCHKDHEISYAKYGSFFCDCGAKEDGSCLALVKRTPSSGMSSTMKESAFQSEPRISESLVRHASTSSPADKAKVTISDGKVADEEKPKKSSLCRTVEGCREELQNQANFSFAPLVLDMLNFLMDAIQTNFQQASAVGSSSRAQQALSELHTVEKAVEMTDQLMVPTLGSQEGAFENVRMNYSGDQGQTIRQLISAHVLRRVAMCVLSSPHGRRQHLAVSHEKGKITVLQLSALLKQADSSKRKLTLTRLASAPVPFTVLSLTGNPCKEDYLAVCGLKDCHVLTFSSSGSVSDHLVLHPQLATGNFIIKAVWLPGSQTELAIVTADFVKIYDLCVDALSPTFYFLLPSSKIRDVTFLFNEEGKNIIVIMSSAGYIYTQLMEEASSAQQGPFYVTNVLEINHEDLKDSNSQVAGGGVSVYYSHVLQMLFFSYCQGKSFAATISRTTLEVLQLFPINIKSSNGGSKTSPALCQWSEVMNHPGLVCCVQQTTGVPLVVMVKPDTFLIQEIKTLPAKAKIQDMVAIRHTACNEQQRTTMILLCEDGSLRIYMANVENTSYWLQPSLQPSSVISIMKPVRKRKTATITTRTSSQVTFPIDFFEHNQQLTDVEFGGNDLLQVYNAQQIKHRLNSTGMYVANTKPGGFTIEISNNNSTMVMTGMRIQIGTQAIERAPSYIEIFGRTMQLNLSRSRWFDFPFTREEALQADKKLNLFIGASVDPAGVTMIDAVKIYGKTKEQFGWPDEPPEEFPSASVSNICPSNLNQSNGTGDSDSAAPTTTSGTVLERLVVSSLEALESCFAVGPIIEKERNKNAAQELATLLLSLPAPASVQQQSKSLLASLHTSRSAYHSHKDQALLSKAVQCLNTSSKEGKDLDPEVFQRLVITARSIAIMRPNNLVHFTESKLPQMETEGMDEGKEPQKQLEGDCCSFITQLVNHFWKLHASKPKNAFLAPACLPGLTHIEATVNALVDIIHGYCTCELDCINTASKIYMQMLLCPDPAVSFSCKQALIRVLRPRNKRRHVTLPSSPRSNTPMGDKDDDDDDDADEKMQSSGIPNGGHIRQESQEQSEVDHGDFEMVSESMVLETAENVNNGNPSPLEALLAGAEGFPPMLDIPPDADDETMVELAIALSLQQDQQGSSSSALGLQSLGLSGQAPSSSSLDAGTLSDTTASAPASDDEGSTAATDGSTLRTSPADHGGSVGSESGGSAVDSVAGEHSVSGRSSAYGDATAEGHPAGPGSVSSSTGAISTTTGHQEGDGSEGEGEGETEGDVHTSNRLHMVRLMLLERLLQTLPQLRNVGGVRAIPYMQVILMLTTDLDGEDEKDKGALDNLLSQLIAELGMDKKDVSKKNERSALNEVHLVVMRLLSVFMSRTKSGSKSSICESSSLISSATAAALLSSGAVDYCLHVLKSLLEYWKSQQNDEEPVATSQLLKPHTTSSPPDMSPFFLRQYVKGHAADVFEAYTQLLTEMVLRLPYQIKKITDTNSRIPPPVFDHSWFYFLSEYLMIQQTPFVRRQVRKLLLFICGSKEKYRQLRDLHTLDSHVRGIKKLLEEQGIFLRASVVTASSGSALQYDTLISLMEHLKACAEIAAQRTINWQKFCIKDDSVLYFLLQVSFLVDEGVSPVLLQLLSCALCGSKVLAALAASSGSSSASSSSAPVAASSGQATTQSKSSTKKSKKEEKEKEKDGETSGSQEDQLCTALVNQLNKFADKETLIQFLRCFLLESNSSSVRWQAHCLTLHIYRNSSKSQQELLLDLMWSIWPELPAYGRKAAQFVDLLGYFSLKTPQTEKKLKEYSQKAVEILRTQNHILTNHPNSNIYNTLSGLVEFDGYYLESDPCLVCNNPEVPFCYIKLSSIKVDTRYTTTQQVVKLIGSHTISKVTVKIGDLKRTKMVRTINLYYNNRTVQAIVELKNKPARWHKAKKVQLTPGQTEVKIDLPLPIVASNLMIEFADFYENYQASTETLQCPRCSASVPANPGVCGNCGENVYQCHKCRSINYDEKDPFLCNACGFCKYARFDFMLYAKPCCAVDPIENEEDRKKAVSNINTLLDKADRVYHQLMGHRPQLENLLCKVNEAAPEKPQDDSGTAGGISSTSASVNRYILQLAQEYCGDCKNSFDELSKIIQKVFASRKELLEYDLQQREAATKSSRTSVQPTFTASQYRALSVLGCGHTSSTKCYGCASAVTEHCITLLRALATNPALRHILVSQGLIRELFDYNLRRGAAAMREEVRQLMCLLTRDNPEATQQMNDLIIGKVSTALKGHWANPDLASSLQYEMLLLTDSISKEDSCWELRLRCALSLFLMAVNIKTPVVVENITLMCLRILQKLIKPPAPTSKKNKDVPVEALTTVKPYCNEIHAQAQLWLKRDPKASYDAWKKCLPIRGIDGNGKAPSKSELRHLYLTEKYVWRWKQFLSRRGKRTSPLDLKLGHNNWLRQVLFTPATQAARQAACTIVEALATIPSRKQQVLDLLTSYLDELSIAGECAAEYLALYQKLITSAHWKVYLAARGVLPYVGNLITKEIARLLALEEATLSTDLQQGYALKSLTGLLSSFVEVESIKRHFKSRLVGTVLNGYLCLRKLVVQRTKLIDETQDMLLEMLEDMTTGTESETKAFMAVCIETAKRYNLDDYRTPVFIFERLCSIIYPEENEVTEFFVTLEKDPQQEDFLQGRMPGNPYSSNEPGIGPLMRDIKNKICQDCDLVALLEDDSGMELLVNNKIISLDLPVAEVYKKVWCTTNEGEPMRIVYRMRGLLGDATEEFIESLDSTTDEEEDEEEVYKMAGVMAQCGGLECMLNRLAGIRDFKQGRHLLTVLLKLFSYCVKVKVNRQQLVKLEMNTLNVMLGTLNLALVAEQESKDSGGAAVAEQVLSIMEIILDESNAEPLSEDKGNLLLTGDKDQLVMLLDQINSTFVRSNPSVLQGLLRIIPYLSFGEVEKMQILVERFKPYCNFDKYDEDHSGDDKVFLDCFCKIAAGIKNNSNGHQLKDLILQKGITQNALDYMKKHIPSAKNLDADIWKKFLSRPALPFILRLLRGLAIQHPGTQVLIGTDSIPNLHKLEQVSSDEGIGTLAENLLEALREHPDVNKKIDAARRETRAEKKRMAMAMRQKALGTLGMTTNEKGQVVTKTALLKQMEELIEEPGLTCCICREGYKFQPTKVLGIYTFTKRVALEEMENKPRKQQGYSTVSHFNIVHYDCHLAAVRLARGREEWESAALQNANTKCNGLLPVWGPHVPESAFATCLARHNTYLQECTGQREPTYQLNIHDIKLLFLRFAMEQSFSADTGGGGRESNIHLIPYIIHTVLYVLNTTRATSREEKNLQGFLEQPKEKWVESAFEVDGPYYFTVLALHILPPEQWRATRVEILRRLLVTSQARAVAPGGATRLTDKAVKDYSAYRSSLLFWALVDLIYNMFKKVPTSNTEGGWSCSLAEYIRHNDMPIYEAADKALKTFQEEFMPVETFSEFLDVAGLLSEITDPESFLKDLLNSVP |
| 4224 | sp|Q8AXB3|VGFR4\_DANRE | MTPLKTSVKAFFTLHVLFSCISHGLVEGSRLPDPQLLPDGDTHLQHVGGTLTLICRGSTALHWRLASRNVSSVRIESCEERLHKHCSKLVIHNLRHNDTGIYSCSHKKSSDHEVSTYVFVKDPHHPFVEAYSLPHPLFAYRNDPYFVVPCRTTYPNQNVILETQMNPMADDVKRGVQWDPKKGFTVPLKPYDSYHLITCLTRVDNAEFSSVYLLKRLTMEIKNLAIEPERPRVLVGDTLILNCSAETTYNGRIHFEWEFHKERINRTHHFSTTPVQLAQIMVMSKALIVPNVTMEDKGTYTCTGSIEFKKLQMSTKVIVYEHPFLNVTHNKRKFTSTVEGRRVQFEPRVNAVPAPDRVLWYKDGVAISENSTCYETAGYNLTIKQVRQKDAGIFTIALSNQERGLYRNISYKLEVRVKPKIFEEDVAPAGPQTFRYDQRHKLTCTAFGIPMPNITWFWQPCDPSANLTECKLYTDPLPIENVDDHFPQNPIKDVNSKVGLLKSKNRTISTLVVKTANVSGVYSCTARNELGNRTMRIPFYVDDHPQPFEIEPSTAVAGDDITLTCRGTRYLYDRLTWYDPLGHKVPKDETTLRIEPYTISLSIKLPNVSRNHTLGYECQALKINTNKVVNVTSALTIDERQGPWLMQNLTNQDVNSSSTLTLACLAYGVPAPFITWYKDKTPVTEGPGITLKDDGTLIIERVKKDDEGIYECRASNDGGEAKTSAVITVVGEDGKPNIEVIILVSTGAAATFLWIMLILFIRKLRKPSSADLKTGYLSIIMDPEQMPLDEQCDRLPYDSNKWEFPQDRLRLGKTLGHGAFGKVVEASAFGIDKISTCKTVAVKMLKVGATNNEWRALMSELKILIHIGHHLNVVNLLGACTKRGGPLMIIVEFCKYGNLSNYLRSKRGDFVVYKSQDGKAVRSSSGCDLSELIKRRLESVASTGSSASSGFIEDKSYCDSEEEEEEQEDLYKKVLTLEDLICYSFQVAKGMEFLASRKCIHRDLAARNILLSENNVVKICDFGLARDVYKDPDYVRKGDARLPLKWMAPEAIFDKIYTTQSDVWSFGVLMWEIFSLGASPYPGLHIDEEFCCRLKEGTRMKAPEYSSSEIYQTMLDCWHGEPSQRPTFTELVERLGDLLQASVQQEGKHYIPINTALLTKADPSNQSPTEETSTRPVSLRDSGTAWNIKIRPESVKTFDEVILENGTNKIHEGGQSDSGIGLSSDDLKTLKRLESLARPRSFMSRAMKRKSKESVLLEGEMDKYPPLVPSLSLEDSSLDSEMECHSPPPDYNYVVRYSTPPV |
| 4225 | sp|Q12071|VPS54\_YEAST | MSISETPHNKSQGLQKAAGRPKIVVPEGSPSRNSDSGSFTIEGDTSLNDDLLSISGSVTPRARRSSRLSLDSITPRRSFDSRTLSVANSRSFGFENETHSGSMDFSPLGNNSIYEIVMNTRRKNWLNYPTVADIPQVSLSKNDLDDHWKTHVIEYVKNIKSDYQIFQSTNNIRNMNQMEQLKELREGENMHEESFEANLRQGDAELINSIPDFYFSDKFQLDNPRTFHKVLDAIDLFLTKLDMKRQAERDEAFSELRDRLNDFLDIVETLLVTEISKSSHKFFHALSEVDNIQKRALDTMSELKELAQNIKTIDAENIRKKISHLEMIFKRKNVEKLEQGLLQAKLVLNKTDECKSMYEENKLDNCLELIKSIDYLIKGDDSINEDVQSWTRCWPYKLSNLRTIPALSATREFLTNMKIEIGGKFSLQLSILLIDDLRSFCKSIKPKETLHRIQTGSNDKKQTIFTDNFSSKITELIVRLNRCEELTSAFDLYREKSITELKSIIKIYLPTENAHADNNHDEKHLNNGSTSGSKLSRLIKEQTPAEFQSMLVNIFTHALEALRRLYGHQKLLLDISLNELASVKSPNENQHNMITQLDIRTGINEIIRIIQLRTGKIIAVRRELNLSLRYDYFLKFYAICVIFIQECEVLSGEFLTKYLSNVLASQIKHYANAQSSKNYRNIKKKIDAEEWIPYIVDSSIQSDVNDIVSSIDIDPLSWTTILDMVGGSHDCENGRSEDKEKDEGNETYQGHRKSVVVGDKTFVASSSLLATIEVIKELMVLSINLPSIYLSNFEKLCYDALQYYNSSAMASVTQPGNSLLKTGRNLSIMGESLDCLAEFVIIVQRFYQRLSNSNRDFEPFDASHYTTLLGQFQASSNKIYMANAPPPPV |
| 4226 | sp|P31000|VIME\_RAT | MSTRSVSSSSYRRMFGGSGTSSRPSSNRSYVTTSTRTYSLGSALRPSTSRSLYSSSPGGAYVTRSSAVRLRSSMPGVRLLQDSVDFSLADAINTEFKNTRTNEKVELQELNDRFANYIDKVRFLEQQNKILLAELEQLKGQGKSRLGDLYEEEMRELRRQVDQLTNDKARVEVERDNLAEDIMRLREKLQEEMLQREEAESTLQSFRQDVDNASLARLDLERKVESLQEEIAFLKKLHDEEIQELQAQIQEQHVQIDVDVSKPDLTAALRDVRQQYESVAAKNLQEAEEWYKSKFADLSEAANRNNDALRQAKQESNEYRRQVQSLTCEVDALKGTNESLERQMREMEENFALEAANYQDTIGRLQDEIQNMKEEMARHLREYQDLLNVKMALDIEIATYRKLLEGEESRISLPLPNFSSLNLRETNLESLPLVDTHSKRTLLIKTVETRDGQVINETSQHHDDLE |
| 4227 | sp|O88496|VKGC\_RAT | MAVHRGSARAAPASDKVQKNKPAQTSGLEQGSRMARIFGFEWADLSSWQSVVTLLNRPTDPANLAVFRFLFAFLMLLDIPQERGLSSLDRKYLDGLDVCRFPLLDALRPLPLDWMYLVYTIMFLGALGMMLGLWYRLSCMLFLLPYWYVFLLDKTSWNNHSYLYGLLAFQLTFMDANHYWSVDGLLSAQKKNAHVPLWNYTVLRGQIFIVYFIAGVKKLDADWVEGYSMEHLSRHWLFSPFKLVLSEELTSLLVVHWCGLLLDLSAGFLLFFDASRPIGLVFVSYFHCMNSQLFSIGMFPYVMLASSPLFCSAEWPRKLVARCPKRLQELLPAKAAPRPSASCVYKRARAKAGQKPGLRHHLGTVFTLLYLLEQLFLPYSHFLTQGYNNWTNGLYGYSWDMMVHSRSHQHVKITYRDGLTGELGYLNPGVFTQSRRWKDHADMLKQYATCLSLLLPKYNVTEPQIYFDIWVSINDRFQQRLFDPRVDIVQAVWSPFRRTPWVQPLLMDLSPWRTKLQDIKSSLDNHTEVVFIADFPGLHLENFVSEDLGNTSIQLLQGEVTVELVAEQKNQTLREGEKMQLPAGEYHKVYTVSSSPSCYMYIYVNTTEVALEQDLAYLQELKEKVENGSETGPLPPELQPLLEGEVKGGPEPTPLVQTFLRRQRKLQEIERRRNSPLHERFLRFVLRKLYVFRRSFLMTRISLRNLLFGRPSLEQLAQEVTYANLRPFEPVDESSASNTDSSDPHPSEPDSEHVHSEL |
| 4228 | sp|Q84WW3|VIP2L\_ARATH | MGVEEGAGVDKKITIGVCVMEKKVFSAPMGQIMDRIHAFGEFEIIHFGDKVILEDPVESWPICDCLIAFYSSGYPLEKVQAYSSLRKPFLVNELDPQYLLHDRRKVYEHLEMYGIPVPRYACVNRKVPDEDLDYFVEEEDFVEVKGERFWKPFVEKPVNGDDHSIMIYYPSSAGGGMKELFRKVGNRSSEFHPDVRRVRREGSYIYEEFMPTGGTDVKVYTVGPEYAHAEARKSPVVDGVVMRNPDGKEVRYPVLLTPAEKQMAREVCIAFRQAVCGFDLLRSEGSSYVCDVNGWSFVKNSYKYYDDAACVLRKMFLDAKAPHLSSTIPPILPWKINEPVQSNEGLTRQGSGIIGTFGQSEELRCVIAIVRHGDRTPKQKVKLKVTEEKLLNLMLKYNGGKPRAETKLKTAVQLQDLLDATRMLIPRARSGESDSDAEDLEHADKLRQVKAVLEEGGHFSGIYRKVQLKPLKWVNVPKSDGEGEEERPVEALMVLKYGGVLTHAGRKQAEELGRYFRNNMYPGEGTGLLRLHSTYRHDLKIYSSDEGRVQMSAAAFAKGLLDLEGQLTPILVSLVSKDSSMLDGLDNASSEMEAAKAQLNEIITAGSKMVHDHVSSELPWMTDGAGLPPHADEHLPELVKLAKKVTEQVRLLAQDEHENLAEPSAYDVVPPYDQAKALGKSNIDVGRIAAGLPCGSEGFLLMFARWRKLERDLYNERRERFDITQIPDVYDSCKYDLLHNSHLDLKGLDELFKVAQLLADGVIPNEYGINPQQKLKIGSKIARRLLGKILIDLRNTREEAMSVAELKNSQDQVSVSLYSSRKEDRYSQPKLFVKSDELRRPSTGENKEEDDDKETKYRLDPKYANVMTPERHVRTRLYFTSESHIHSLMNVLRYCNLDESLQGEESLVCQSALDRLCKTKELDYMSYVVLRLFENTEISLDDPKRFRIELTFSRGADLSPLEKKDEEAESLLREHTLPIMGPERLQEVGSCLTLETMEKMIRPFAMPAEDFPPPCTPAGFSGYFSKSAAVLERLVKLWPFHKNTSNGKS |
| 4229 | sp|P03120|VE2\_HPV16 | METLCQRLNVCQDKILTHYENDSTDLRDHIDYWKHMRLECAIYYKAREMGFKHINHQVVPTLAVSKNKALQAIELQLTLETIYNSQYSNEKWTLQDVSLEVYLTAPTGCIKKHGYTVEVQFDGDICNTMHYTNWTHIYICEEASVTVVEGQVDYYGLYYVHEGIRTYFVQFKDDAEKYSKNKVWEVHAGGQVILCPTSVFSSNEVSSPEIIRQHLANHPAATHTKAVALGTEETQTTIQRPRSEPDTGNPCHTTKLLHRDSVDSAPILTAFNSSHKGRINCNSNTTPIVHLKGDANTLKCLRYRFKKHCTLYTAVSSTWHWTGHNVKHKSAIVTLTYDSEWQRDQFLSQVKIPKTITVSTGFMSI |
| 4230 | sp|P19320|VCAM1\_HUMAN | MPGKMVVILGASNILWIMFAASQAFKIETTPESRYLAQIGDSVSLTCSTTGCESPFFSWRTQIDSPLNGKVTNEGTTSTLTMNPVSFGNEHSYLCTATCESRKLEKGIQVEIYSFPKDPEIHLSGPLEAGKPITVKCSVADVYPFDRLEIDLLKGDHLMKSQEFLEDADRKSLETKSLEVTFTPVIEDIGKVLVCRAKLHIDEMDSVPTVRQAVKELQVYISPKNTVISVNPSTKLQEGGSVTMTCSSEGLPAPEIFWSKKLDNGNLQHLSGNATLTLIAMRMEDSGIYVCEGVNLIGKNRKEVELIVQEKPFTVEISPGPRIAAQIGDSVMLTCSVMGCESPSFSWRTQIDSPLSGKVRSEGTNSTLTLSPVSFENEHSYLCTVTCGHKKLEKGIQVELYSFPRDPEIEMSGGLVNGSSVTVSCKVPSVYPLDRLEIELLKGETILENIEFLEDTDMKSLENKSLEMTFIPTIEDTGKALVCQAKLHIDDMEFEPKQRQSTQTLYVNVAPRDTTVLVSPSSILEEGSSVNMTCLSQGFPAPKILWSRQLPNGELQPLSENATLTLISTKMEDSGVYLCEGINQAGRSRKEVELIIQVTPKDIKLTAFPSESVKEGDTVIISCTCGNVPETWIILKKKAETGDTVLKSIDGAYTIRKAQLKDAGVYECESKNKVGSQLRSLTLDVQGRENNKDYFSPELLVLYFASSLIIPAIGMIIYFARKANMKGSYSLVEAQKSKV |
| 4231 | sp|P09052|VASA1\_DROME | MSDDWDDEPIVDTRGARGGDWSDDEDTAKSFSGEAEGDGVGGSGGEGGGYQGGNRDVFGRIGGGRGGGAGGYRGGNRDGGGFHGGRREGERDFRGGEGGFRGGQGGSRGGQGGSRGGQGGFRGGEGGFRGRLYENEDGDERRGRLDREERGGERRGRLDREERGGERGERGDGGFARRRRNEDDINNNNNIVEDVERKREFYIPPEPSNDAIEIFSSGIASGIHFSKYNNIPVKVTGSDVPQPIQHFTSADLRDIIIDNVNKSGYKIPTPIQKCSIPVISSGRDLMACAQTGSGKTAAFLLPILSKLLEDPHELELGRPQVVIVSPTRELAIQIFNEARKFAFESYLKIGIVYGGTSFRHQNECITRGCHVVIATPGRLLDFVDRTFITFEDTRFVVLDEADRMLDMGFSEDMRRIMTHVTMRPEHQTLMFSATFPEEIQRMAGEFLKNYVFVAIGIVGGACSDVKQTIYEVNKYAKRSKLIEILSEQADGTIVFVETKRGADFLASFLSEKEFPTTSIHGDRLQSQREQALRDFKNGSMKVLIATSVASRGLDIKNIKHVINYDMPSKIDDYVHRIGRTGRVGNNGRATSFFDPEKDRAIAADLVKILEGSGQTVPDFLRTCGAGGDGGYSNQNFGGVDVRGRGNYVGDATNVEEEEQWD |
| 4232 | sp|Q23588|UTPP\_CAEEL | MNGLVKNGNVEKPNKYFDIKDKRDFLYHFGFGVDTLDIPAVFGDTKFVCTGGSPGRFKLYAEWFAKEANIPCSENLSRSDRFVIYKTGPVCWINHGMGTPSLSIMLVESFKLMHHAGVKNPTFIRLGTSGGVGVPPGTVVVSTEAMNAELGDTYVQIIAGKRIERPTQLDAALREALCEVGKEKSIPVETGKTMCADDFYEGQMRLDGYFCDYEEEDKYAFLRKLNALGVRNIEMESTCFASFTCRAGFQSAIVCVTLLNRMDGDQVQIAKEQYIEYEERPFRLVTAYIRKQTGI |
| 4233 | sp|Q91B85|POLG\_ALKV | MAKGAVLKGKGGGPPRRVPKETAKKTRQGPGRLPNGLVLMRMMGVLWHMIAGTARSPILKRFWATVPVRQAIAALRKIRKTVGLLLDSLNRRRGKRRSTTGLLTSILLACLATLVISATIRRERTGDMVIRAEGKDAATQVEVVNGTCIILATDMGSWCDDSIMYECVTIDSGEEPVDVDCFCRGVERVSLEYGRCGKPVGGRSRRSVSIPVHAHSDLTGRGHKWLRGDSVKTHLTRVEGWVWKNKLLTMAFCAVVWMVTDSLPTRFIVITVALCLAPTYATRCTHLQNRDFVSGIQGTTRVSLVLELGGCVTLTAEGKPSVDVWLDDIHQENPAKTREYCLHAKLASSKVVARCPAMGPATLPEEHQASTVCRRDQSDRGWGNHCGLFGKGSIVACAKFACEAKKKATGYVYDVNKITYVVKVEPHTGDYLAANESHSNRKTASFTTQSEKTILTLGDYGDISLTCRVTSGVDPAQTVVLELDKTAEHLPKAWQVHRDWFEDLSLPWRHEGAHEWNHADRLVEFGEPHAVKMDIFNLGDQTGILLKSLAGVPVANIEGSKYHLQSGHVTCDVGLEKLKMKGMTYTVCEGSKFAWKRPPTDSGHDTVVMEVTYTGSKPCRIPVRAVAHGEPNVNVASLITPNPSMETTGGGFVELQLPPGDNIIYVGELSHQWFQKGSTIGRVLEKTRRGIERLTVVGEHAWDFGSVGGVLSSVGKALHTAFGAAFNTIFGGVGFLPRILLGVALAWLGLNSRNPTLSVGFLITGGLVLTMTLGVGADMGCAIDANRMELRCGEGLVVWREVTDWYDGYAFHPESPPVLAASLKEAYEEGVCGIVPQNRLEMAMWRRVEAVLNLALAESDANLTVVVDRRDPSDYRGGKVGILKRSGKEMKTSWKGWSQSFVWSVPESPRRFMVGIEGTGECPLDKRRTGVFTVAEFGMGMRTKIFLDLRETSSSDCDTGVMGAAVKSGHAVHTDQSLWMKSHRNATGVFISELIVTDLRNCTWPASHTLDNAGVVDSKLFLPVSLAGPRSHYNHIPGYAEQVRGPWNQTPLRVVREPCPGTTVKIDQNCDKRGSSLRSTTESGKAIPEWCCRTCELPPVTFRSGTDCWYAMEIRPVHQQGGLVRSMVLADNGAMLSEGGVPGIVAVFVVLELVIRRRPTTGTSVVWCGVVVLGLVVTGLVTIEGLCRYVVAVGILMSMELGPEIVALVLLQAVFDMRTGLLVAFAVKRAYTTREAVVTYFLLLVLELGFPEASLSNIWKWADSLAMGTLILQACSQEGRARVGYLLAAMMTQKDMAIIHTGLTIFLSAATAMAVWSMIKGQRDQKGLSWATPLVGLFGGEGVGLRLLAFRRLAERRNRRSFSEPLTVVGVMLTVASGMVRHTSQEALCALVAGAFLLLMMVLGTRKMQLIAEWCGEVEWNPDLVNEGGEVNLKVRQDAMGNLHLTEVEKEERAMALWLLAGLVASAFHWAGILIVLAIWTFFEMLSSGRRSELVFSGQGTRTERNRPFEIKDGAYRIYSPGLLWGHRQIGVGYGAKGVLHTMWHVTRGAALVVEEAISGPYWADVREDVVCYGGAWSLESRWRGETVQVHAFPPGRPQETHQCQPGELILENGRKLGAVPIDLSKGTSGSPIINAQGEVVGLYGNGLKTNEAYVSSIAQGEAEKSRPELPLSVQGTGWMSKGQITVLDMHPGSGKTHRVLPELVRQCANRGMRTLVLAPTRVVLKEMEKALAGKKVRFHSPAVEGQSTAGAVVDVMCHATYVHRRLLPQGRQNWEVAIMDEAHWTDPHSIAARGHLYSLAKENRCALVLMTATPPGRGDPFPESNGAIMSEERAIPDGEWREGFDWITEYEGRTAWFVPSISKGGAIARTLRQRGKSVICLNSKTFEKDYLRVREEKPDFVVTTDISEMGANLDVSRVIDGRTNIKPEEVDGKVEMTGTRKITTASAAQRRGRVGRTSGRTDEYIYSGQCDDDDTSLVQWKEAQILLDNITTLRGPVATFYGPEQMKMPEVAGHYRLNEEKRKHFRHLMTQCDFTPWLAWHVATNTSNVLDRSWTWQGPEGNAIDGADGDLVRFKTPGGSERVLQPVWKDCRMFREGRDVKDFILYASGRRSVGDVLGGLAGVPGLLRHRCASALDVVYTLLNENPGSRAMRMAERDAPEAFLTIVEVAVLGVATLGILWCFVARTSVSRMFLGTVVLFAALLLLWIGGVDYGYMAGIALIFYIFLTVLQPEPGKQRSSDDNRLAYFLLGLLSLAGLVTANEMGMLDKTKADLAGLMWHGEQRHPAWEEWTNVDIQPARSWGTYVLIVSLFTPYMLHQLQTKIQQLVNSSVASGAQAMRDLGGGTPFFGVAGHVIALGVTSLVGATPLSLGLGVALAAFHLAIVASGLEAELTQRAHRVFFSAMVKNPMVDGDVINPFPDGEPKPVLYERRMSLILAIALCMVSVVLNRTAASMTEAGAVGLAALGQLVHPETETLWTMPMACGMAGLVRGSFWGLLPMGHRLWLKTTGTRRGGADGETLGDIWKRRLNGCSREEFFQYRRSGVMETERDRARELLKRGETNMGLAVSRGTAKLAWLEERGYATLKGEVVDLGCGRGGWSYYAASRPAVMGVKAYTIGGKGHEVPRLITSLGWNLIKFRTGMDVYSLEAHRADTILCDIGESNPDPLVEGERSRRVILLMEKWKLRNPDASCVFKVLAPYRPEVLEALHRFQLQWGGGLVRVPFSRNSTHEMYFSTAVSGNIVNSVNIQSRKLLARFGDQRGPAKVPEVDLGTGTRCVVLAEDKVREADVAERITALKTQYGDSWHVDKEHPYRTWQYWGSYKTEATGSAASLINGVVKLLSWPWNAREDVVRMAMTDTTAFGQQRVFKEKVDTKAQEPQVGTKIIMRAVNDWILERLAGKKTPRLCTREEFIAKVRSNAALGAWSDEQNRWSNAREAVEDPEFWRLVDEERERHLRGRCAQCVYNMMGKREKKLGEFGVAKGSRAIWYMWLGSRYLEFEALGFLNEDHWASRDLSGAGVEGISLNYLGWHLKRLSELEGGLFYADDTAGWDTRITNADLEDEEQILRYLRGEHRTLAKTILEKAYHAKVVKVARPSSSGGCVMDIITRRDQRGSGQVVTYALNTLTNIKVQLIRMMEGEGVIGPSDSQDPRLLRVEAWLKEYGEERLTRMLVSGDDCVVRPIDDRFGKALYFLNDMAKVRKDIGEWEPSEGYSSWEEVPFCSHHFHELTMKDGRVIIVPCRDQDELVGRARVSPGCGWSVRETACLSKAYGQMWLLSYFHRRDLRTLGLAICSAVPIDWVPQGRTTWSIHASGAWMTTEDMLEVWNRVWILDNPFMSDKGKVKEWRDIPYLPKSQDGLCSSLVGRRERAEWAKNIWGSVEKVRRMIGPERYADYLSCMDRHELHWDLKLESNII |
| 4234 | sp|O14156|PP2C4\_SCHPO | MSIRFLKRLRAPLYIQNAYCSKNYFYRSFIQYYSPSNGPYLKISMNKAPQSLGLCTARGDSPTNQDRMAYGYLNNLKDTTNRDSPFFYGLFDGHGGTECSEFLSTNLGKIIENQDLNDTEKILKEVHSVGGYMAGLKPPFSLRTVLQSRDEDLLWRARLYYSFLQADMDYLTNYARPSPDSAVPGAVGTVAIITSKNNLSYWESDSYIIHLAHVGDTRALLCDSRTGRAHRLTFQHHPADVEEARRLRRYNMGFSRDSFGQKRFAWVANTRSFGDGYKLKKLGVVAEPQLTSIHSLRDDWSFLTLLSDGITDVVSDDEVVDIIKLSESPQDAANNIIRYAQNVGAVDDITCLVVRLPGWKKRTINDFTKNLRLEKSAYHPRRS |
| 4235 | sp|P03359|POL\_WMSV | MGQNNSTPLSLTLDHWKDVRTRAHNLSVKIRKGKWQTFCSSEWPTFGVGWPPEGTFNLSVIFAVKRIVFQETGGHPDQVPYIVVWQDLAQSPPPWVPPSAKIAVVSSPENTRGPSAGRPSAPPRPPIYPATDDLLLLSEPPPYPAALPPPLAPPAVGPAPGQAPDSSDPEGPAAGTRSRRARSPADDSGPDSTVILPLRAIGPPAEPNGLVPLQYWPFSSADLYNWKSNHPSFSENPAGLTGLLESLMFSHQPTWDDCQQLLQILFTTEERERILLEARKNVLGDNGAPTQLENLINEAFPLNRPQWDYNTAAGRERLLVYRRTLVAGLKGAARRPTNLAKVREVLQGPAEPPSVFLERLMEAYRRYTPFDPSEEGQQAAVAMAFIGQSAPDIKKKLQRLEGLQDYSLQDLVREAEKVYHKRETEEERQEREKKEAEERERRRDRRQEKNLTRILAAVVSERGSRDRQTGNLSNRARKTPRDGRPPLDKDQCAYCKEKGHWARECPQKKNVREAKVLALDDQGSRGSDPLPEPRVTLTVEGTPIEFLVDTGAEHSVLTQPMGKVGSRRTVVEGATGSKVYPWTTKRLLKIGHKQVTHSFLVIPECPAPLLGRDLLTKLKAQIQFSAEGPQVTWEDRPTMCLVLNLEEEYRLHEKPVPSSIDPSWLQLFPTVWAERAGMGLANQVPPVVVELRSGASPVAVRQYPMSKEAREGIRPHIQRFLDLGVLVPCQSPWNTPLLPVKKPGTNDYRPVQDLREINKRVQDIHPTVPNPYNLLSSLPPSHTWYSVLDLKDAFFCLKLHPNSQPLFAFEWRDPEKGNTGQLTWTRLPQGFKNSPTLFDEALHRDLAPFRALNPQVVLLQYVDDLLVAAPTYRDCKEGTQKLLQELSKLGYRVSAKKAQLCQKEVTYLGYLLKEGKRWLTPARKATVMKIPPPTTPRQVREFLGTAGFCRLWIPGFASLAAPLYPLTKESIPFIWTEEHQKAFDRIKEALLSAPALALPDLTKPFTLYVDERAGVARGVLTQTLGPWRRPVAYLSKKLDPVASGWPTCLKAVAAVALLLKDADKLTLGQNVTVIASHSLESIVRQPPDRWMTNARMTHYQSLLLNERVSFAPPAVLNPATLLPVESEATPVHRCSEILAEETGTRRDLKDQPLPGVPAWYTDGSSFIAEGKRRAGAAIVDGKRTVWASSLPEGTSAQKAELVALTQALRLAEGKDINIYTDSRYAFATAHIHGAIYKQRGLLTSAGKDIKNKEEILALLEAIHLPKRVAIIHCPGHQKGNDPVATGNRRADEAAKQAALSTRVLAETTKPQELIXPAQVKTRPGELTPDRGKEFIQRLHQLTHLGPEKLLQLVNRTSLLIPNLQSAVREVTSQCQACAMTNAVTTYRETGKRQRGDRPGVYWEVDFTEVKPGRYGNRYLLVFIDTFSGWVEAFPTKTETALTVCKKILEEILPRFGIPKVLGSDNGPAFVAQVSQGLATQLGINWKLHCAYRPQSSGQVERMNRTIKETLTKLALETGXKDWVALLPLALLRARNTPGRFGLTPYEILYGGPPPILESGGTLGPDDNFLPVLFTHLKALEVVRTQIWDQIKEVYKPGTVAIPHPFQVGDQVLVRRHRPGSLEPRWKGPYLVLLTTPTAVKVDGIAAWVHASHLKPAPPSAPDESWELEKADHPLKLRIRRRRNESAK |
| 4236 | sp|P0C211|POL\_HTL1L | MGQIFPRSANPIPRPPRGLATHHWLNFLQAAYRLEPGPSSYDFHQLKTVLKMALETPVWMCPINYSLLASLLPKGYPGQVNEILQVLIQTQTQIPSHPAPPPPSSPTHDPPDSDPQIPPPYVEPTAPQVLPVMHPHGVPPTHRPWQMKDLQAIKQEVSQAAPGSPQFMQTIRLAVQQFDPTAKDLQDLLQYLCSSLVASLHHQQLDSLISEAETRGITGYNPLAGPLRVQANNPQQQGLRREYQQLWLTAFAALPGSAKDPSWASILQGLEEPYHTFVERLNVALDNGLPEGTPKDPILRSLAYSNANKECQKLLQARGHTNSPLGDMLRACQAWTPRDKTKVLVVQPKKPPPNQPCFRCGKAGHWSRDCAQPRPPPGPCPLCQDPTHWKRDCPRLKPAIPEPEPEEDALLLDLPADIPHPKNLHRGGGLTSPPTLRQVHPNKDPASILPVIPLDPARRPLIKAQVDTQTSHPRTIEALLDTGADMTVLPIALFSSDTPLKDTSVLGAGGQTQDHFKLTSLPVLIRLPFRTTPIVLTSCLVDTKNNWAIIGRDALQQCQGVLYLPEAKRPPVILPIQAPAVLGLEHLPRPPEISQFPLNPERLQALQHLVRKALEAGHIEPYTGPGNNPVFPVKKANGTWRFIHDLRATNSLTVDLSSSSPGPPDLSSLPTTLAHLQTIDLKDAFFQIPLPKQFQPYFAFTVPQQCNYGPGTRYAWKVLPQGFKNSPTLFEMQLASILQPIRQAFPQCVILQYMDDILLASPSPEDLQQLSEATMASLISHGLPVSQDKTQQTPGTIKFLGQIISPNHITYDAVPTVPIRSRWALPELQALLGEIQWVSKGTPTLRQPLHSLYCALQGHTDPRDQIYLNPSQVQSLMQLQQALSQNCRSRLAQTLPLLGAIMLTLTGTTTVVFQSKQQWPLVWLHAPLPHTSQCPWGQLLASAVLLLDKYTLQSYGLLCQTIHHNISIQTFNQFIQTSDHPSVPILLHHSHRFKNLGAQTGELWNTFLKTAAPLAPVKALTPVFTLSPIIINTAPCLFSDGSTSQAAYILWDKHILSQRSFPLPPPHKSAQQAELLGLLHGLSSARSWHCLNIFLDSKYLYHYLRTLALGTFQGKSSQAPFQALLPRLLAHKVIYLHHVRSHTNLPDPISKLNALTDALLITPILQLSPAELHSFTHCGQTALTLQGATTTEASNILRSCHACRKNNPQHQMPRGHIRRGLLPNHIWQGDITHFKYKNTLYRLHVWVDTFSGAISATQKRKETSSEAISSLLQAIAQLGKPSYINTDNGPAYISQDFLSMCTSLAIRHTTHVPYNPTSSGLVERSNGILKTLLYKYFTDRPDLPMDNALSIALWTINHLNVLTHCHKTRWQLHHSPRLQPIPETHSLISKQTHWYYFKLPGLNSRQWKGPQEALQEAAGAALIPVSANSAQWIPWRLLKQAACPRPAEGPADPKEKDHQHHG |
| 4237 | sp|Q183R7|PPEP1\_CLOD6 | MRPSKKLLIAIISIFLISSVPVSAHADSTTIQQNKDTLSQIVVFPTGNYDKNEANAMVNRLANIDGKYLNALKQNNLKIKLLSGKLTDEKEYAYLKGVVPKGWEGTGKTWDDVPGLGGSTVALRIGFSNKGKGHDAINLELHETAHAIDHIVLNDISKSAQFKQIFAKEGRSLGNVNYLGVYPEEFFAESFAYYYLNQDTNSKLKSACPQTYSFLQNLAK |
| 4238 | sp|P35813|PPM1A\_HUMAN | MGAFLDKPKMEKHNAQGQGNGLRYGLSSMQGWRVEMEDAHTAVIGLPSGLESWSFFAVYDGHAGSQVAKYCCEHLLDHITNNQDFKGSAGAPSVENVKNGIRTGFLEIDEHMRVMSEKKHGADRSGSTAVGVLISPQHTYFINCGDSRGLLCRNRKVHFFTQDHKPSNPLEKERIQNAGGSVMIQRVNGSLAVSRALGDFDYKCVHGKGPTEQLVSPEPEVHDIERSEEDDQFIILACDGIWDVMGNEELCDFVRSRLEVTDDLEKVCNEVVDTCLYKGSRDNMSVILICFPNAPKVSPEAVKKEAELDKYLECRVEEIIKKQGEGVPDLVHVMRTLASENIPSLPPGGELASKRNVIEAVYNRLNPYKNDDTDSTSTDDMW |
| 4239 | sp|P06585|PSBA\_PEA | MTAILERRDSENLWGRFCNWITSTENRLYIGWFGVLMIPTLLTATSVFIIAFIAAPPVDIDGIREPVSGSLLYGNNIISGAIIPTSAAIGLHFYPIWEAASVDEWLYNGGPYELIVLHFLLGVACYMGREWELSFRLGMRPWIAVAYSAPVAAATAVFLIYPIGQGSFSDGMPLGISGTFNFMIVFQAEHNILMHPFHMLGVAGVFGGSLFSAMHGSLVTSSLIRETTENESANEGYRFGQEEETYNIVAAHGYFGRLIFQYASFNNSRSLHFFLAAWPVVGIWFTALGISTMAFNLNGFNFNQSVVDSQGRVINTWADIINRANLGMEVMHERNAHNFPLDLAAVEAPSING |
| 4240 | sp|O39928|POLG\_HCVEV | MSTNPKPQRKTKRNTNRRPQDVKFPGGGQIVGGVYLLPRRGPKLGVRATRKNSERSQPRGRRQPIPKARRPTGRSWGQPGYPWPLYANEGLGWAGWLLSPRSSRPNWGPNDPRRKSPNLGRVIHTLTCGFPHLMGYIPLVGGPVGGVSRALAHGVKVLEDGINYATGNLPGCPFSIFVLALLWCLTVPASAVPYRNASGVYHVTNDCPNSSIVYEADNLILHAPGCVPCVLEDNVSRCWVQITPTLSAPSFGAVTALLRRAVDYLAGGAAFCSALYVGDACGALSLVGQMFTYKPRQHTTVQDCNCSIYSGHITGHRMAWDMMMKWSPTTALLMAQLLRIPQVVIDIIAGGHWGVLLAAAYFASTANWAKVILVLFLFAGVDGRTHTVGGTVGQGLKSLTSFFNPGPQRQLQFVNTNGSWHINSTALNCNDSLQTGFIAGLMYAHKFNSSGCPERMSSCRPLAAFDQGWGTISYATISGPSDDKPYCWHYPPRPCGVVPARDVCGPVYCFTPSPVVVGTTDRRGCPTYNWGSNETDILLLNNIRPPAGNWFGCTWMNSTGFVKNCGAPPCNLGPTGNNSLKCPTDCFRKHPDATYTRCGSGPWLTPRCLVHYPYRLWHYPCTVNYTIFKVRMFIGGLEHRLEAACNWTYGERCDLEDRDRAELSPLLHTTTQWAILPCSFTPTPALSTGLIHLHQNIVDTQYLYGLSSSIVSWAVKWEYIMLVFLLLADARICTCLLILLLICQAEATCKNVIVLNAAAAAGNHGFFWGLLVVCLAWHVKGRLVPGATYLCLGVWPLLLVRLLRPHRALALDSSDGGTVGCLVLIVLTIFTLTPGYKKKVVLVMWWLQYFIARVEAIIHVWVPPLQVKGGRDAVIMLTCLFHPALGFEITKILFGILGPLYLLQHSLTKVPYFLRARALLRLCLLAKHLVYGKYVQAALLHLGRLTGTYIYDHLAPMKDWAASGLRELTVATEPIVFSAMETKVITWGADTAACGNILAVLPVSARRGREIFLGPADDIKTSGWRLLAPITAYAQQTRGVLGAIVLSLTGRDKNEAEGEVQFLSTATQTFLGICINGVMWTLFHGAGSKTLAGPKGPVVQMYTNVDKDLVGWPSPPGKGSLTRCTCGSADLYLVTRHADVIPARRRGDTRASLLSPRPISYLKGSSGGPIMCPSGHVVGVFRAAVCTRGVAKALEFVPVENLETTMRSPVFTDNSTPPAVPHEFQVGHLHAPTGSGKSTKVPAAYAAQGYKVLVLNPSVAATFGFGAYMSRAYGVDPNIRTGVRTVTTGAGITYSTYGKFFADGGCSGGAYDVIICDECHSQDATTILGIGTVLDQAETAGARLVVLATAIPPGSVTTPHPNIEEVALPSEGEIPFYGRAIPLVLIKGGRHLIFCHSKKKCDELAKQLTSLGVNAVAYYRGLDVAVIPATGDVVVCSTDALMTGFTGDFDSVIDCNSAVTQTVDFSLDPTFTIETTTVPQDAVSRSQRRGRTGRGRHGIYRYVSSGERPSGIFDSVVLCECYDAGCAWYDLTPAETTVRLRAYLNTPGLPVCQEHLEFWEGVFTGLTNIDAHMLSQAKQGGENFPYLVAYQATVCVRAKAPPPSWDTMWKCMICLKPTLTGPTPLLYRLGAVQNEITLTHPITKYIMACMSADLEVITSTWVLVGGVVAALAAYCLTVGSVAIVGRIILSGRPAITPDREVLYQQFDEMEECSASLPYVDEARAIAGQFKEKVLGLIGTAGQKAETLKPAATSMWSKAEQFWAKHMWNFVSGIQYLAGLSTLPGNPAVATLMSFTAAVTSPLTTHQTLLFNILGGWVASQIAPPTAATAFVVSGMAGAAVGNIGLGRVLIDILAGYGTGVAGALVAFKIMCGERPTAEELVNLLPSILCPGALVVGVICAAVLRRHIGPGEGAVQWMNRLIAFASRGNHGSPTHYVPETDASAKVTQLLSSLTVTSLLKRLHTWIGEDYSTPCDGTWLRAIWDWVCTALTDFKAWLQAKLLPQLPGVPFFSCQKGYKGVWRGDGVNSTKCPCGATISGHVKNGTMRIVGPKLCSNTWQGTFPINATTTGPSVPAPAPNYKFALWRVGAADYAEVRRVGDYHYITGVTQDNLKCPCQVPSPEFFTELDGVRIHRFAPPCNPLLREEVTFSVGLHSYVVGSQLPCEPEPDVTVLTSMLSDPAHITAETAKRRLNRGSPPSLANSSASQLSAPSLKATCTIQGHHPDADLIKANLLWRQCMGGNITRVEAENKVEILDCFKPLKEEEDDREISVSADCFKKGPAFPPALPVWARPGYDPPLLETWKRPDYDPPQVWGCPIPPAGPPPVPLPRRKRKPMELSDSTVSQVMADLADARFKVDTPSIEGQDSALGTSSQHDSGPEEKRDDNSDAASYSSMPPLEGEPGDPDLSSGSWSTVSGEDNVVCCSMSYTWTGALITPCSAEEEKLPINPLSNTLLRHHNLVYSTSSRSAGLRQKKVTFDRLQVLDDHYREVVDEMKRLASKVKARLLPLEEACGLTPPHSARSKYGYGAKEVRSLDKKALKHIEGVWQDLLDDSDTPLPTTIMAKNEVFAVEPSKGGKKPARLIVYPDLGVRVCEKRALYDVAQKLPTALMGPSYGFQYSPAQRVDFLLKAWKSKKIPMAFSYDTRCFDSTITEHDIMTEESIYQSCDLQPEARVAIRSLTQRLYCGGPMYNSKGQQCGYRRCRASGVFTTSMGNTMTCYIKALASCRAAKLRDCTLLVCGDDLVAICESQGTHEDEASLRAFTEAMTRYSAPPGDPPVPAYDLELVTSCSSNVSVARDASGNRIYYLTRDPQVPLAKAAWETAKHSPVNSWLGNIIMYAPTLWARIVLMTHFFSVLQSQEQLEKTLAFEMYGSVYSVTPLDLPAIIQRLHGLSAFSLHSYSPSEINRVASCLRKLGVPPLRAWRHRARAVRAKLIAQGGRAAICGIYLFNWAVKTKRKLTPLADADRLDLSSWFTVGAGGGDIYHSMSRARPRNLLLCLLLLSVGVGIFLLPAR |
| 4241 | sp|Q4TT88|PSA\_CAEEL | MLGRLAVRQAVRCSKASIKPVNTHQLCLRNFSAIRRLSFVAGAQCRPYHTTANMLHRTARGEHGMAACGNPSAAVKFERLPTFAEPTHYNVRLSPCLNQFSFDGHATIDVTIKEATDVLKVHAQSLLIQSVSLITQPGDASKSLETSYDDKLNILTIKLPTTMQPQKVQLDFKFVGELNDKMRGFYRSQYKDKNGTEKFLASTQFESTYARYAFPCFDEPIYKATFDVTLEVENHLTALSNMNVISETPTADGKRKAVTFATSPKMSSYLVAFAVGELEYISAQTKSGVEMRVYTVPGKKEQGQYSLDLSVKCIDWYNEWFDIKYPLPKCDLIAIPDFSMGAMENWGLVTYREIALLVDPGVTSTRQKSRVALVVAHELAHLWFGNLVTMKWWTDLWLKEGFASFMEYMFVGANCPEFKIWLHFLNDELASGMGLDALRNSHPIEVEIDNPNELDEIYDSITYAKSNSVNRMLCYYLSEPVFQKGLRLYLKRFQYSNAVTQDLWTALSEASGQNVNELMSGWTQQMGFPVLKVSQRQDGNNRILTVEQRRFISDGGEDPKNSQWQVPITVAVGSSPSDVKARFLLKEKQQEFTIEGVAPGEWVKLNSGTTGFYRVEYSDEMLTAMLPDIASRRMPVLDRFGLINDLSALLNTGRVSIAQFVQVAASSAKEDEYVVWGAIDEGMSKLLACAREMSEDTLKSAKQLVVKMFEQTGAELGFAEQAGEDSQKMMLRSLVQARLARAGHQPTIDKFTQMFNDFLEKGTPIHPDIRLATFGVVARYGGKEGFDKLMNLRETTTFQEIERQTMVAMSQTPEESLLAQLFEYGFEKNKVRPQDQLYLFLGTGATHMGQQYAWKYFCEHIKEFLDKYGGANSSLFQRCLKFAGESFGNEKRAVEFQDFFCNCNVLSDTDRQTLARPIGQTVEAIRLNARLLESNRQIIENLLKQSNV |
| 4242 | sp|P31999|POLG\_LMV0 | MATLDNCTQVHHMFAYNREHGTNYTRNHFRRYLAAQRIGFYYDWDDDVYECPTCEAIYHSLDDIKNWHECDPPAFDLNDFITDARLKSAPVPDLGPVIIEIPKAEEKQELNFFAATPAPEVSQWKCRGLQFGSFTELETSEPVASAPEPKCEEPARTIAKPEESVEQETRGDGKRLLQAQMEVDKAEQDLAFACLNASLKPRLEGRTTATIARRRDGCLVYKTKPSWSQRRRAKKTLKVDTLACENPYIPAIVDKISIAGGSSASVMHEQQKPKTLHTTPSRKVATHYKRTVMNQQTLMAFINQVGTILLNAEKEFEVVGCRKQKVTGKGTRHNGVRLVKLKTAHEEGHRRRVDIRIPNGLRPIVMRISARGGWHRTWTDSELSPGSSGYVLNSSKIIGKFGLRRHSIFVVRGRVDGEVIDSQSKVTHSITHRMVQYSDVARNFWNGYSTCFMHNTPKDILHTCTSDFDVKECGTVAALLTQTLFQFGKITCEKCAIEYKNLTRDELATRVNKEIDGTIISIQTQHPRFVHVLNFLRLIKQVLNAKNGNFGAFQETERIIGDRMDAPFSHVNKLNAIVIKGNQATSDEMAQASNHVLEIARYLKNRTENIQKGSLKSFRNKISGKAHLNPSLMCDNQLDKNGGFEWGQRSYHAKRFFDGYFETIDPSDGYSKYTIRRNPNGHRKLAIGNLIVSTNFESHRRSMIGESIEDPGLTNQCVSKEGDTFIYPCCCVTDEYGKPTLSEIKMPTKHHLVLGNAGDPKYVDLPKEAEGKMFVTKDGYCYINIFLAMLVDVPEDQAKDFTKMAREIAVKQLGEWPSMMDVATACNILATFHPDTRRSELPRILVDHATKTFHVIDSYGSITTGFHILKANTVTQLVKFAHESLESEMQHYRVGGEPDKAPRKPAGSVPTLGISDLRDLGVELENEEHSIRPNLQRLIKAIYRPRMMRSLLTEEPYLLILSIVSPGVLMALYNSGSLERTMHEFLQTDQRLSATAQILKHLAKKVSLAKTLTIQNAILEGGAGSLNEILDAPAGRSLSYRLAKQTVEVMMARSDMDKELVDVGFSVLRDQKNELIEKSYLMDLEDSWHALPLCGKLSAMRASRRWRDTSTPEVIPTGAADLKGRYSISVGSVSKSAILHLKGICSGAVKRVRDKWVGVQVQGVKWLAKSVHYMIPELTNILNVGTLLLTLISLGVAFRNLTGQFKEMKHKETLAKEEELRKRIRTYNSTYYEIHGKHADAKQITKFITHHDPKLLEVVEFYEGPEEEEVEHQAKREDQANLERIIAFTALVMMMFDSERSDCVYRSLSKLKSLVSTCEDDVRHQSVDEIIDLFDEKKETIDFEIEGKELYSSRVVDSTFSKWWDNQLVRGNTMAHYRTEGHFMTFTRETAASVAAEIAHNEYRDILLQGGVGSGKSTGLPFHLHRKGGVLLIEPTRPLAQNVYKQLGSSPFHLSPNLRMRGSCKFGSSQVTVATSGYALHFIANNAQSLKAYDFIIFDECHVLDASAMAFRCLLQEFEYQGKIIKVSATPPGRKLDFKPMHMVDIATENELSIQQFVQGQGTGVNCDATKKGDNILVYVSSYNEVDMLSKMLNDKGYKVTKVDGRTMKLGSVEVETVGTPQRKHFVVATNIIENGVTLDVDVVVDFGQKVVPILDSEHRMIRYTKKSITYGERIQRVGRVGRNKAGSAIRIGSTEMGTEEIPASIATEAAFLCFTYGLPVMTSNVSTSVLGNCTVRQARTMQKFELSPFFMVDLVHHDGTIHPAINSLLKQFKLKESDIKLSTLAIPNAVTTFWKSAREYNSLGARTTIDDAAKIPFMIKDVPEHLQEKLWETIQQYKGDAGFGRCTSANACKIAYTLSVSPFMIPATINKIDALMAEERQKMEYFQTVTANTCTISNFSISSIGDMIRSRYSTNHSRENLQKLQAVRDTIINFECQAGTGDGGSFDMETAQKLAEEYGCIDVIYHQSKEALSKRLGLKGRWNQSLICKDLLVFCGVAIGGTWMMFQSFKDGMADAVRHQGKGKRQRQKLRYRQARDNKVGIEVYGDDATMEHYFGAAYTEKGKKSGKTKGMGTKNRRFVNMYGYNPEDFSFIRFLDPLTGKTMDEQVFSDISLVQDAFSKERLKLLSEGEIESEHMRNGIRAYLVKNLTTAALEIDMTPHNSCQLGAKTNNIAGYVDREYELRQTGEARVVAPALIPKDNPITDEDIPVKHESKTLFRGLRDYNPIAAAICLLTNESDGMKETMYGIGFGNTIITNQHLFRRNNGVLRVQSRHGEYVLPNTTQLKVLPCEGRDIMVIILTPDFPPFPQKLKFRPPIKGEKICLVGSLFQDKSITSTVSETSVTTPVDNSFLWKHWITTKDGHCGLPLVSSNDGYIVGIHSATSSRQTQNYHAAMPEDFHQTHLIDPASKSWVKHWKYNPDNMVWGGINLINSTPREPFKINKLVTDLFGDAVQFQSKQDEWFASQLKGNLKAVGKSTSQLVTKHTVKGKCMMFELYLQTHEEEKEFFKPLMGAYQKSRLNREAFTKDIMKYSTPITVGIVDCDTFLKAEEGVIKRLERLGFSGCEYVTDEEAIFQALNMKAAVGALYSGKKRDYFEGYGPEEKENILRESCKRLYTGKFGVWNGSLKSELRPMEKVMANKTRVFTAAPLDTLLAGKVCVDDFNNYFYSKNIEAPWTVGMTKFYGGWNELLTKLPDGWVYCDADGSQFDSSLSPFLINSVLRIRLKFMEDWDLGEQMLKNLYTEIVYTAILTPDSTIVKKFKGNNSGQPSTVVDNTLMVVLAMTYTLHKLGFEDEEQDSMCKYFVNGDDLIIAIKPEHESLLDQFQHCFKSLGLNYDFNSRTRKKEELWFMSHCGIKKDGIFIPKLEPERIVSILEWDRSDQPVHRLEAICAAMIESWGYDKLTHEIRKFYKWCLEQAPYADLAKAGKAPYIAECALKRLYTSKEASEAELEKYMEAIRSLVNDEDDDDMDEVYHQVDAKLDAGQGSKTDDKQKNSADPKDNIITEKGSGSGQMKKDDDINAGLHGKHTIPRTKAITQKMKLPMIRGKVALNLDHLLEYEPNQRDISNTRATQKQYESWYDGVKNDYDVDDSGMQLILNGLMVWCIENGTSPNINGTWVMMDGEEQVEYALKPIIEHAKPTFRQIMAHFSDAAEAYIEMRNKKKPYMPRYGRLRGLNDMGLARYAFDFYETTSATPNRAREAHNQMKAAALVGTQNRLFGMDGGGSTQEENTERHTAADVNQNMHTLLGVRGLH |
| 4243 | sp|P27177|PRIO\_CHICK | MARLLTTCCLLALLLAACTDVALSKKGKGKPSGGGWGAGSHRQPSYPRQPGYPHNPGYPHNPGYPHNPGYPHNPGYPHNPGYPQNPGYPHNPGYPGWGQGYNPSSGGSYHNQKPWKPPKTNFKHVAGAAAAGAVVGGLGGYAMGRVMSGMNYHFDSPDEYRWWSENSARYPNRVYYRDYSSPVPQDVFVADCFNITVTEYSIGPAAKKNTSEAVAAANQTEVEMENKVVTKVIREMCVQQYREYRLASGIQLHPADTWLAVLLLLLTTLFAMH |
| 4244 | sp|P0CG20|PRR35\_HUMAN | MSREAGSCRVGTGARARSRKPKKPHYIPRPWGKPYNYKCFQCPFTCLEKSHLYNHMKYSLCKDSLSLLLDSPDWACRRGSTTPRPHAPTPDRPGESDPGRQPQGARPTGAAPAPDLVVADIHSLHCGGGPKSRAKGSPGPPPPVARATRKGPGPSGLLPESWKPGMGGDPRGVGAGDMASAGPEGSVPCYPPPAPGEFPEAHSLHLSLLGVNYPLSPGLFSYLGPSLAAAAHVPFLASASPLLPPATAFPAVQPPQRPTPAPRLYYPLLLEHTLGLPAGKAALAKAPVSPRSPSGTPAPGLLKVPVPGLGPWPRVTPRDPGQEGELERAAQSDPRRRLSLGSRLELPKASPSLTRFCSRSSLPTGSSVMLWPEDGDPGGPETPGPEGPLPLQPRGPVPGSPEHVGEDLTRALGDYARVEQRLGQLGPAGGLAPRPLREQLGKIRLELLTIHQALEQAVRPPDAPLDLSVKRAPAKGPQALGEAWGRPELGPVLTGGTPEPPGMLGPAAPQPFSGHTTKCEADSSVPPPGLPLAAPDDPVIPGSGWGTCVATRSSQTPEAVCGLQSPQGAEV |
| 4245 | sp|Q9WVS6|PRKN\_MOUSE | MIVFVRFNSSYGFPVEVDSDTSILQLKEVVAKRQGVPADQLRVIFAGKELPNHLTVQNCDLEQQSIVHIVQRPRRRSHETNASGGDEPQSTSEGSIWESRSLTRVDLSSHTLPVDSVGLAVILDTDSKRDSEAARGPVKPTYNSFFIYCKGPCHKVQPGKLRVQCGTCKQATLTLAQGPSCWDDVLIPNRMSGECQSPDCPGTRAEFFFKCGAHPTSDKDTSVALNLITSNRRSIPCIACTDVRSPVLVFQCNHRHVICLDCFHLYCVTRLNDRQFVHDAQLGYSLPCVAGCPNSLIKELHHFRILGEEQYTRYQQYGAEECVLQMGGVLCPRPGCGAGLLPEQGQRKVTCEGGNGLGCGFVFCRDCKEAYHEGDCDSLLEPSGATSQAYRVDKRAAEQARWEEASKETIKKTTKPCPRCNVPIEKNGGCMHMKCPQPQCKLEWCWNCGCEWNRACMGDHWFDV |
| 4246 | sp|D4GYZ1|PSB\_HALVD | MRTPTHDEFSGRLDSLNGDRSNVFGPELGEFSNADRRADELGDKETKTGTTTVGIKTEEGVVLATDMRASMGYMVSSKDVQKVEEIHPTGALTIAGSVSAAQSLISSLRAEVRLYEARRGEDMSMQALSTLVGNFLRSGGFYVVQPILGGVDETGPHIYSIDPAGSILEEEYTVTGSGSQYALGVLEQEFEDGLSIEEAKGVATKAIRSAVERDLASGNGINIAVVTEDGVDIQRHQNFEGLE |
| 4247 | sp|P31939|PUR9\_HUMAN | MAPGQLALFSVSDKTGLVEFARNLTALGLNLVASGGTAKALRDAGLAVRDVSELTGFPEMLGGRVKTLHPAVHAGILARNIPEDNADMARLDFNLIRVVACNLYPFVKTVASPGVTVEEAVEQIDIGGVTLLRAAAKNHARVTVVCEPEDYVVVSTEMQSSESKDTSLETRRQLALKAFTHTAQYDEAISDYFRKQYSKGVSQMPLRYGMNPHQTPAQLYTLQPKLPITVLNGAPGFINLCDALNAWQLVKELKEALGIPAAASFKHVSPAGAAVGIPLSEDEAKVCMVYDLYKTLTPISAAYARARGADRMSSFGDFVALSDVCDVPTAKIISREVSDGIIAPGYEEEALTILSKKKNGNYCVLQMDQSYKPDENEVRTLFGLHLSQKRNNGVVDKSLFSNVVTKNKDLPESALRDLIVATIAVKYTQSNSVCYAKNGQVIGIGAGQQSRIHCTRLAGDKANYWWLRHHPQVLSMKFKTGVKRAEISNAIDQYVTGTIGEDEDLIKWKALFEEVPELLTEAEKKEWVEKLTEVSISSDAFFPFRDNVDRAKRSGVAYIAAPSGSAADKVVIEACDELGIILAHTNLRLFHH |
| 4248 | sp|P25105|PTAFR\_HUMAN | MEPHDSSHMDSEFRYTLFPIVYSIIFVLGVIANGYVLWVFARLYPCKKFNEIKIFMVNLTMADMLFLITLPLWIVYYQNQGNWILPKFLCNVAGCLFFINTYCSVAFLGVITYNRFQAVTRPIKTAQANTRKRGISLSLVIWVAIVGAASYFLILDSTNTVPDSAGSGNVTRCFEHYEKGSVPVLIIHIFIVFSFFLVFLIILFCNLVIIRTLLMQPVQQQRNAEVKRRALWMVCTVLAVFIICFVPHHVVQLPWTLAELGFQDSKFHQAINDAHQVTLCLLSTNCVLDPVIYCFLTKKFRKHLTEKFYSMRSSRKCSRATTDTVTEVVVPFNQIPGNSLKN |
| 4249 | sp|Q62035|PTAFR\_MOUSE | MEHNGSFRVDSEFRYTLFPIVYSVIFILGVVANGYVLWVFANLYPSKKLNEIKIFMVNLTMADLLFLITLPLWIVYYYNEGDWILPNFLCNVAGCLFFINTYCSVAFLGVITYNRYQAVAYPIKTAQATTRKRGISLSLIIWVSIVATASYFLATDSTNLVPNKDGSGNITRCFEHYEPYSVPILVVHVFIAFCFFLVFFLIFYCNLVIIHTLLTQPMRQQRKAGVKRRALWMVCTVLAVFIICFVPHHVVQLPWTLAELGYQTNFHQAINDAHQITLCLLSTNCVLDPVIYCFLTKKFRKHLSEKFYSMRSSRKCSRATSDTCTEVIVPANQTPIVSLKN |
| 4250 | sp|P49768|PSN1\_HUMAN | MTELPAPLSYFQNAQMSEDNHLSNTVRSQNDNRERQEHNDRRSLGHPEPLSNGRPQGNSRQVVEQDEEEDEELTLKYGAKHVIMLFVPVTLCMVVVVATIKSVSFYTRKDGQLIYTPFTEDTETVGQRALHSILNAAIMISVIVVMTILLVVLYKYRCYKVIHAWLIISSLLLLFFFSFIYLGEVFKTYNVAVDYITVALLIWNFGVVGMISIHWKGPLRLQQAYLIMISALMALVFIKYLPEWTAWLILAVISVYDLVAVLCPKGPLRMLVETAQERNETLFPALIYSSTMVWLVNMAEGDPEAQRRVSKNSKYNAESTERESQDTVAENDDGGFSEEWEAQRDSHLGPHRSTPESRAAVQELSSSILAGEDPEERGVKLGLGDFIFYSVLVGKASATASGDWNTTIACFVAILIGLCLTLLLLAIFKKALPALPISITFGLVFYFATDYLVQPFMDQLAFHQFYI |
| 4251 | sp|Q9XT96|PSN2\_BOVIN | MLTFMASDSEEEVCDERTSLMSAESPTPRSCQDGRQGLEDGESAAQWRSQESEEDHEEEDPDRYVCSGVPGRPPGLEEELTLKYGAKHVIMLFVPVTLCMIVVVATIKSVRFYTEKNGQLIYTPFSEDTPSVGQRLLNSVLNTLIMISVIVTMTIFLVVLYKYRCYKFIHGWLIMSSLMLLFLFTYIYLGEVLKTYNVAMDYPTLFLTVWNFGAVGMVCIHWKGPLVLQQAYLIMISALMALVFIKYLPEWSAWVILGAISVYDLVAVLCPKGPLRMLVETAQERNEPIFPALIYSSAMVWTVGMAKLDPSSQGALQLPYDPEMEEDSYDSFGEPSYPDVFEPPLPGYPGEELEEEEERGVKLGLGDFIFYSVLVGKAAATGSGDWNTTLACFVAILIGLCLTLLLLAVFKKALPALPISITFGLIFYFSTDNLVRPFMDTLASHQLYI |
| 4252 | sp|O60673|REV3L\_HUMAN | MFSVRIVTADYYMASPLQGLDTCQSPLTQAPVKKVPVVRVFGATPAGQKTCLHLHGIFPYLYVPYDGYGQQPESYLSQMAFSIDRALNVALGNPSSTAQHVFKVSLVSGMPFYGYHEKERHFMKIYLYNPTMVKRICELLQSGAIMNKFYQPHEAHIPYLLQLFIDYNLYGMNLINLAAVKFRKARRKSNTLHATGSCKNHLSGNSLADTLFRWEQDEIPSSLILEGVEPQSTCELEVDAVAADILNRLDIEAQIGGNPGLQAIWEDEKQRRRNRNETSQMSQPESQDHRFVPATESEKKFQKRLQEILKQNDFSVTLSGSVDYSDGSQEFSAELTLHSEVLSPEMLQCTPANMVEVHKDKESSKGHTRHKVEEALINEEAILNLMENSQTFQPLTQRLSESPVFMDSSPDEALVHLLAGLESDGYRGERNRMPSPCRSFGNNKYPQNSDDEENEPQIEKEEMELSLVMSQRWDSNIEEHCAKKRSLCRNTHRSSTEDDDSSSGEEMEWSDNSLLLASLSIPQLDGTADENSDNPLNNENSRTHSSVIATSKLSVKPSIFHKDAATLEPSSSAKITFQCKHTSALSSHVLNKEDLIEDLSQTNKNTEKGLDNSVTSFTNESTYSMKYPGSLSSTVHSENSHKENSKKEILPVSSCESSIFDYEEDIPSVTRQVPSRKYTNIRKIEKDSPFIHMHRHPNENTLGKNSFNFSDLNHSKNKVSSEGNEKGNSTALSSLFPSSFTENCELLSCSGENRTMVHSLNSTADESGLNKLKIRYEEFQEHKTEKPSLSQQAAHYMFFPSVVLSNCLTRPQKLSPVTYKLQPGNKPSRLKLNKRKLAGHQETSTKSSETGSTKDNFIQNNPCNSNPEKDNALASDLTKTTRGAFENKTPTDGFIDCHFGDGTLETEQSFGLYGNKYTLRAKRKVNYETEDSESSFVTHNSKISLPHPMEIGESLDGTLKSRKRRKMSKKLPPVIIKYIIINRFRGRKNMLVKLGKIDSKEKQVILTEEKMELYKKLAPLKDFWPKVPDSPATKYPIYPLTPKKSHRRKSKHKSAKKKTGKQQRTNNENIKRTLSFRKKRSHAILSPPSPSYNAETEDCDLNYSDVMSKLGFLSERSTSPINSSPPRCWSPTDPRAEEIMAAAEKEAMLFKGPNVYKKTVNSRIGKTSRARAQIKKSKAKLANPSIVTKKRNKRNQTNKLVDDGKKKPRAKQKTNEKGTSRKHTTLKDEKIKSQSGAEVKFVLKHQNVSEFASSSGGSQLLFKQKDMPLMGSAVDHPLSASLPTGINAQQKLSGCFSSFLESKKSVDLQTFPSSRDDLHPSVVCNSIGPGVSKINVQRPHNQSAMFTLKESTLIQKNIFDLSNHLSQVAQNTQISSGMSSKIEDNANNIQRNYLSSIGKLSEYRNSLESKLDQAYTPNFLHCKDSQQQIVCIAEQSKHSETCSPGNTASEESQMPNNCFVTSLRSPIKQIAWEQKQRGFILDMSNFKPERVKPRSLSEAISQTKALSQCKNRNVSTPSAFGEGQSGLAVLKELLQKRQQKAQNANTTQDPLSNKHQPNKNISGSLEHNKANKRTRSVTSPRKPRTPRSTKQKEKIPKLLKVDSLNLQNSSQLDNSVSDDSPIFFSDPGFESCYSLEDSLSPEHNYNFDINTIGQTGFCSFYSGSQFVPADQNLPQKFLSDAVQDLFPGQAIEKNEFLSHDNQKCDEDKHHTTDSASWIRSGTLSPEIFEKSTIDSNENRRHNQWKNSFHPLTTRSNSIMDSFCVQQAEDCLSEKSRLNRSSVSKEVFLSLPQPNNSDWIQGHTRKEMGQSLDSANTSFTAILSSPDGELVDVACEDLELYVSRNNDMLTPTPDSSPRSTSSPSQSKNGSFTPRTANILKPLMSPPSREEIMATLLDHDLSETIYQEPFCSNPSDVPEKPREIGGRLLMVETRLANDLAEFEGDFSLEGLRLWKTAFSAMTQNPRPGSPLRSGQGVVNKGSSNSPKMVEDKKIVIMPCKCAPSRQLVQVWLQAKEEYERSKKLPKTKPTGVVKSAENFSSSVNPDDKPVVPPKMDVSPCILPTTAHTKEDVDNSQIALQAPTTGCSQTASESQMLPPVASASDPEKDEDDDDNYYISYSSPDSPVIPPWQQPISPDSKALNGDDRPSSPVEELPSLAFENFLKPIKDGIQKSPCSEPQEPLVISPINTRARTGKCESLCFHSTPIIQRKLLERLPEAPGLSPLSTEPKTQKLSNKKGSNTDTLRRVLLTQAKNQFAAVNTPQKETSQIDGPSLNNTYGFKVSIQNLQEAKALHEIQNLTLISVELHARTRRDLEPDPEFDPICALFYCISSDTPLPDTEKTELTGVIVIDKDKTVFSQDIRYQTPLLIRSGITGLEVTYAADEKALFHEIANIIKRYDPDILLGYEIQMHSWGYLLQRAAALSIDLCRMISRVPDDKIENRFAAERDEYGSYTMSEINIVGRITLNLWRIMRNEVALTNYTFENVSFHVLHQRFPLFTFRVLSDWFDNKTDLYRWKMVDHYVSRVRGNLQMLEQLDLIGKTSEMARLFGIQFLHVLTRGSQYRVESMMLRIAKPMNYIPVTPSVQQRSQMRAPQCVPLIMEPESRFYSNSVLVLDFQSLYPSIVIAYNYCFSTCLGHVENLGKYDEFKFGCTSLRVPPDLLYQVRHDITVSPNGVAFVKPSVRKGVLPRMLEEILKTRFMVKQSMKAYKQDRALSRMLDARQLGLKLIANVTFGYTSANFSGRMPCIEVGDSIVHKARETLERAIKLVNDTKKWGARVVYGDTDSMFVLLKGATKEQSFKIGQEIAEAVTATNPKPVKLKFEKVYLPCVLQTKKRYVGYMYETLDQKDPVFDAKGIETVRRDSCPAVSKILERSLKLLFETRDISLIKQYVQRQCMKLLEGKASIQDFIFAKEYRGSFSYKPGACVPALELTRKMLTYDRRSEPQVGERVPYVIIYGTPGVPLIQLVRRPVEVLQDPTLRLNATYYITKQILPPLARIFSLIGIDVFSWYHELPRIHKATSSSRSEPEGRKGTISQYFTTLHCPVCDDLTQHGICSKCRSQPQHVAVILNQEIRELERQQEQLVKICKNCTGCFDRHIPCVSLNCPVLFKLSRVNRELSKAPYLRQLLDQF |
| 4253 | sp|Q8TE99|PXYP1\_HUMAN | MLFRNRFLLLLALAALLAFVSLSLQFFHLIPVSTPKNGMSSKSRKRIMPDPVTEPPVTDPVYEALLYCNIPSVAERSMEGHAPHHFKLVSVHVFIRHGDRYPLYVIPKTKRPEIDCTLVANRKPYHPKLEAFISHMSKGSGASFESPLNSLPLYPNHPLCEMGELTQTGVVQHLQNGQLLRDIYLKKHKLLPNDWSADQLYLETTGKSRTLQSGLALLYGFLPDFDWKKIYFRHQPSALFCSGSCYCPVRNQYLEKEQRRQYLLRLKNSQLEKTYGEMAKIVDVPTKQLRAANPIDSMLCHFCHNVSFPCTRNGCVDMEHFKVIKTHQIEDERERREKKLYFGYSLLGAHPILNQTIGRMQRATEGRKEELFALYSAHDVTLSPVLSALGLSEARFPRFAARLIFELWQDREKPSEHSVRILYNGVDVTFHTSFCQDHHKRSPKPMCPLENLVRFVKRDMFVALGGSGTNYYDACHREGF |
| 4254 | sp|P07259|PYR1\_YEAST | MATIAPTAPITPPMESTGDRLVTLELKDGTVLQGYSFGAEKSVAGELVFQTGMVGYPESVTDPSYEGQILVITYPLVGNYGVPDMHLRDELVEELPRYFESNRIHIAGLVISHYTDEYSHYLAKSSLGKWLQNEGIPAVYGVDTRSLTKHLRDAGSMLGRLSLEKSGSDRTISRSSSWRSAFDVPEWVDPNVQNLVSKVSINEPKLYVPPADNKHIELQTGPDGKVLRILAIDVGMKYNQIRCFIKRGVELKVVPWNYDFTKEDYDGLFISNGPGDPSVLDDLSQRLSNVLEAKKTPVFGICLGHQLIARAAGASTLKLKFGNRGHNIPCTSTISGRCYITSQNHGFAVDVDTLTSGWKPLFVNANDDSNEGIYHSELPYFSVQFHPESTPGPRDTEFLFDVFIQAVKEFKYTQVLKPIAFPGGLLEDNVKAHPRIEAKKVLVLGSGGLSIGQAGEFDYSGSQAIKALKEEGIYTILINPNIATIQTSKGLADKVYFVPVTAEFVRKVILHERPDAIYVTFGGQTALSVGIAMKDEFEALGVKVLGTPIDTIITTEDRELFSNAIDEINEKCAKSQAANSVDEALAAVKEIGFPVIVRAAYALGGLGSGFANNEKELVDLCNVAFSSSPQVLVEKSMKGWKEVEYEVVRDAFDNCITVCNMENFDPLGIHTGDSIVVAPSQTLSDEDYNMLRTTAVNVIRHLGVVGECNIQYALNPVSKDYCIIEVNARLSRSSALASKATGYPLAYTAAKLGLNIPLNEVKNSVTKSTCACFEPSLDYCVVKMPRWDLKKFTRVSTELSSSMKSVGEVMSIGRTFEEAIQKAIRSTEYANLGFNETDLDIDIDYELNNPTDMRVFAIANAFAKKGYSVDKVWEMTRIDKWFLNKLHDLVQFAEKISSFGTKEELPSLVLRQAKQLGFDDRQIARFLDSNEVAIRRLRKEYGITPFVKQIDTVAAEFPAYTNYLYMTYNADSHDLSFDDHGVMVLGSGVYRIGSSVEFDWCAVTAVRTLRANNIKTIMVNYNPETVSTDYDEADRLYFETINLERVLDIYEIENSSGVVVSMGGQTSNNIAMTLHRENVKILGTSPDMIDSAENRYKFSRMLDQIGVDQPAWKELTSMDEAESFAEKVGYPVLVRPSYVLSGAAMNTVYSKNDLESYLNQAVEVSRDYPVVITKYIENAKEIEMDAVARNGELVMHVVSEHVENAGVHSGDATLIVPPQDLAPETVDRIVVATAKIGKALKITGPYNIQFIAKDNEIKVIECNVRASRSFPFISKVVGVNLIELATKAIMGLPLTPYPVEKLPDDYVAVKVPQFSFPRLAGADPVLGVEMASTGEVATFGHSKYEAYLKSLLATGFKLPKKNILLSIGSYKEKQELLSSVQKLYNMGYKLFATSGTADFLSEHGIAVQYLEVLNKDDDDQKSEYSLTQHLANNEIDLYINLPSANRFRRPASYVSKGYKTRRLAVDYSVPLVTNVKCAKLLIEAISRNITLDVSERDAQTSHRTITLPGLINIATYVPNASHVIKGPAELKETTRLFLESGFTYCQLMPRSISGPVITDVASLKAANSVSQDSSYTDFSFTIAGTAHNAHSVTQSASKVTALFLPLRELKNKITAVAELLNQWPTEKQVIAEAKTADLASVLLLTSLQNRSIHITGVSNKEDLALIMTVKAKDPRVTCDVNIYSLFIAQDDYPEAVFLPTKEDQEFFWNNLDSIDAFSVGALPVALANVTGNKVDVGMGIKDSLPLLLAAVEEGKLTIDDIVLRLHDNPAKIFNIPTQDSVVEIDLDYSFRRNKRWSPFNKDMNGGIERVVYNGETLVLSGELVSPGAKGKCIVNPSPASITASAELQSTSAKRRFSITEEAIADNLDAAEDAIPEQPLEQKLMSSRPPRELVAPGAIQNLIRSNNPFRGRHILSIKQFKRSDFHVLFAVAQELRAAVAREGVLDLMKGHVITTIFFEPSTRTCSSFIAAMERLGGRIVNVNPLVSSVKKGETLQDTIRTLACYSDAIVMRHSEEMSVHIAAKYSPVPIINGGNGSREHPTQAFLDLFTIREEIGTVNGITVTFMGDLKHGRTVHSLCRLLMHYQVRINLVSPPELRLPEGLREELRKAGLLGVESIELTPHIISKTDVLYCTRVQEERFNSPEEYARLKDTYIVDNKILAHAKENMAIMHPLPRVNEIKEEVDYDHRAAYFRQMKYGLFVRMALLAMVMGVDM |
| 4255 | sp|O09049|REG3G\_MOUSE | MLPRITITIMSWMLLSCLMLLSQVQGEVAKKDAPSSRSSCPKGSRAYGSYCYALFSVSKNWYDADMACQKRPSGHLVSVLSGAEASFLSSMIKSSGNSGQYVWIGLHDPTLGYEPNRGGWEWSNADVMNYINWETNPSSSSGNHCGTLSRASGFLKWRENYCNLELPYVCKFKA |
| 4256 | sp|Q02094|RHAG\_HUMAN | MRFTFPLMAIVLEIAMIVLFGLFVEYETDQTVLEQLNITKPTDMGIFFELYPLFQDVHVMIFVGFGFLMTFLKKYGFSSVGINLLVAALGLQWGTIVQGILQSQGQKFNIGIKNMINADFSAATVLISFGAVLGKTSPTQMLIMTILEIVFFAHNEYLVSEIFKASDIGASMTIHAFGAYFGLAVAGILYRSGLRKGHENEESAYYSDLFAMIGTLFLWMFWPSFNSAIAEPGDKQCRAIVNTYFSLAACVLTAFAFSSLVEHRGKLNMVHIQNATLAGGVAVGTCADMAIHPFGSMIIGSIAGMVSVLGYKFLTPLFTTKLRIHDTCGVHNLHGLPGVVGGLAGIVAVAMGASNTSMAMQAAALGSSIGTAVVGGLMTGLILKLPLWGQPSDQNCYDDSVYWKVPKTR |
| 4257 | sp|P97492|RGS14\_MOUSE | MPGKPKHLGVPNGRMVLAVSDGELTSTAGSQAQGEGRGSSLSIHSLPSGPSSPFSTEEQPVASWAQSFERLLQDPRGLAYFTEFLKKEFSAENVTFWKACERFQQIPASDTKQLAQEAHNIYHEFLSSQALSPVNIDRQAWLSEEVLAQPRPDMFRAQQLQIFNLMKFDSYARFVKSPLYQECLLAEAEGRPLREPGSSHLGSPDTARKKPKLKPGKSLPLGVEELGQLPLAEGPCGRPLRKSFRREMTGGAMNSALRRESQGSLNSSASLDLGFLAFVSSKSESHRKSLGSGESESESRPGKYCCVYLPDGTASLALARPGLTIRDMLAGICEKRGLSLPDIKVYLVGNEQKALVLDQDCTVLADQEVRLENRITFQLELVGLERVVRISAKPTKRLQEALQPILAKHGLSLDQVVLHRPGEKQPMDLENPVSSVASQTLVLDTPPDAKMSEARSISPCRSQGCLPRTQTKDSHLPPSSSSLLVEDASSSTGNRQTCDIEGLVELLNRVQSSGAHDQRGLLRKEDLVLPEFLQLPSQRPGSREAPP |
| 4258 | sp|Q9NRY4|RHG35\_HUMAN | MMMARKQDVRIPTYNISVVGLSGTEKEKGQCGIGKSCLCNRFVRPSADEFHLDHTSVLSTSDFGGRVVNNDHFLYWGEVSRSLEDCVECKMHIVEQTEFIDDQTFQPHRSTALQPYIKRAAATKLASAEKLMYFCTDQLGLEQDFEQKQMPDGKLLVDGFLLGIDVSRGMNRNFDDQLKFVSNLYNQLAKTKKPIVVVLTKCDEGVERYIRDAHTFALSKKNLQVVETSARSNVNVDLAFSTLVQLIDKSRGKTKIIPYFEALKQQSQQIATAKDKYEWLVSRIVKNHNENWLSVSRKMQASPEYQDYVYLEGTQKAKKLFLQHIHRLKHEHIERRRKLYLAALPLAFEALIPNLDEIDHLSCIKAKKLLETKPEFLKWFVVLEETPWDATSHIDNMENERIPFDLMDTVPAEQLYEAHLEKLRNERKRVEMRRAFKENLETSPFITPGKPWEEARSFIMNEDFYQWLEESVYMDIYGKHQKQIIDKAKEEFQELLLEYSELFYELELDAKPSKEKMGVIQDVLGEEQRFKALQKLQAERDALILKHIHFVYHPTKETCPSCPACVDAKIEHLISSRFIRPSDRNQKNSLSDPNIDRINLVILGKDGLARELANEIRALCTNDDKYVIDGKMYELSLRPIEGNVRLPVNSFQTPTFQPHGCLCLYNSKESLSYVVESIEKSRESTLGRRDNHLVHLPLTLILVNKRGDTSGETLHSLIQQGQQIASKLQCVFLDPASAGIGYGRNINEKQISQVLKGLLDSKRNLNLVSSTASIKDLADVDLRIVMCLMCGDPFSADDILFPVLQSQTCKSSHCGSNNSVLLELPIGLHKKRIELSVLSYHSSFSIRKSRLVHGYIVFYSAKRKASLAMLRAFLCEVQDIIPIQLVALTDGAVDVLDNDLSREQLTEGEEIAQEIDGRFTSIPCSQPQHKLEIFHPFFKDVVEKKNIIEATHMYDNAAEACSTTEEVFNSPRAGSPLCNSNLQDSEEDIEPSYSLFREDTSLPSLSKDHSKLSMELEGNDGLSFIMSNFESKLNNKVPPPVKPKPPVHFEITKGDLSYLDQGHRDGQRKSVSSSPWLPQDGFDPSDYAEPMDAVVKPRNEEENIYSVPHDSTQGKIITIRNINKAQSNGSGNGSDSEMDTSSLERGRKVSIVSKPVLYRTRCTRLGRFASYRTSFSVGSDDELGPIRKKEEDQASQGYKGDNAVIPYETDEDPRRRNILRSLRRNTKKPKPKPRPSITKATWESNYFGVPLTTVVTPEKPIPIFIERCIEYIEATGLSTEGIYRVSGNKSEMESLQRQFDQDHNLDLAEKDFTVNTVAGAMKSFFSELPDPLVPYNMQIDLVEAHKINDREQKLHALKEVLKKFPKENHEVFKYVISHLNKVSHNNKVNLMTSENLSICFWPTLMRPDFSTMDALTATRTYQTIIELFIQQCPFFFYNRPITEPPGARPSSPSAVASTVPFLTSTPVTSQPSPPQSPPPTPQSPMQPLLPSQLQAEHTL |
| 4259 | sp|Q39214|RPM1\_ARATH | MASATVDFGIGRILSVLENETLLLSGVHGEIDKMKKELLIMKSFLEDTHKHGGNGSTTTTTQLFQTFVANTRDLAYQIEDILDEFGYHIHGYRSCAKIWRAFHFPRYMWARHSIAQKLGMVNVMIQSISDSMKRYYHSENYQAALLPPIDDGDAKWVNNISESSLFFSENSLVGIDAPKGKLIGRLLSPEPQRIVVAVVGMGGSGKTTLSANIFKSQSVRRHFESYAWVTISKSYVIEDVFRTMIKEFYKEADTQIPAELYSLGYRELVEKLVEYLQSKRYIVVLDDVWTTGLWREISIALPDGIYGSRVMMTTRDMNVASFPYGIGSTKHEIELLKEDEAWVLFSNKAFPASLEQCRTQNLEPIARKLVERCQGLPLAIASLGSMMSTKKFESEWKKVYSTLNWELNNNHELKIVRSIMFLSFNDLPYPLKRCFLYCSLFPVNYRMKRKRLIRMWMAQRFVEPIRGVKAEEVADSYLNELVYRNMLQVILWNPFGRPKAFKMHDVIWEIALSVSKLERFCDVYNDDSDGDDAAETMENYGSRHLCIQKEMTPDSIRATNLHSLLVCSSAKHKMELLPSLNLLRALDLEDSSISKLPDCLVTMFNLKYLNLSKTQVKELPKNFHKLVNLETLNTKHSKIEELPLGMWKLKKLRYLITFRRNEGHDSNWNYVLGTRVVPKIWQLKDLQVMDCFNAEDELIKNLGCMTQLTRISLVMVRREHGRDLCDSLNKIKRIRFLSLTSIDEEEPLEIDDLIATASIEKLFLAGKLERVPSWFNTLQNLTYLGLRGSQLQENAILSIQTLPRLVWLSFYNAYMGPRLRFAQGFQNLKILEIVQMKHLTEVVIEDGAMFELQKLYVRACRGLEYVPRGIENLINLQELHLIHVSNQLVERIRGEGSVDRSRVKHIPAIKHYFRTDNGSFYVSLSS |
| 4260 | sp|P20435|RPAB2\_YEAST | MSDYEEAFNDGNENFEDFDVEHFSDEETYEEKPQFKDGETTDANGKTIVTGGNGPEDFQQHEQIRRKTLKEKAIPKDQRATTPYMTKYERARILGTRALQISMNAPVFVDLEGETDPLRIAMKELAEKKIPLVIRRYLPDGSFEDWSVEELIVDL |
| 4261 | sp|P05750|RS3\_YEAST | MVALISKKRKLVADGVFYAELNEFFTRELAEEGYSGVEVRVTPTKTEVIIRATRTQDVLGENGRRINELTLLVQKRFKYAPGTIVLYAERVQDRGLSAVAQAESMKFKLLNGLAIRRAAYGVVRYVMESGAKGCEVVVSGKLRAARAKAMKFADGFLIHSGQPVNDFIDTATRHVLMRQGVLGIKVKIMRDPAKSRTGPKALPDAVTIIEPKEEEPILAPSVKDYRPAEETEAQAEPVEA |
| 4262 | sp|P0A7V8|RS4\_ECOLI | MARYLGPKLKLSRREGTDLFLKSGVRAIDTKCKIEQAPGQHGARKPRLSDYGVQLREKQKVRRIYGVLERQFRNYYKEAARLKGNTGENLLALLEGRLDNVVYRMGFGATRAEARQLVSHKAIMVNGRVVNIASYQVSPNDVVSIREKAKKQSRVKAALELAEQREKPTWLEVDAGKMEGTFKRKPERSDLSADINEHLIVELYSK |
| 4263 | sp|Q92681|RSCA1\_HUMAN | MSSLPTSDGFNHPARSSGQSPDVGNPMSLARSVSASVCPIKPSDSDRIEPKAVKALKASAEFQLNSEKKEHLSLQDLSDHASSADHAPTDQSPAMPMQNSSEEITVAGNLEKSAERSTQGLKFHLHTRQEASLSVTSTRMHEPQMFLGEKDWHPENQNLSQVSDPQQHEEPGNEQYEVAQQKASHDQEYLCNIGDLELPEERQQNQHKIVDLEATMKGNGLPQNVDPPSAKKSIPSSECSGCSNSETFMEIDTAQQSLVTLLNSTGRQNANVKNIGALDLTLDNPLMEVETSKCNPSSEILNDSISTQDLQPPETNVEIPGTNKEYGHYSSPSLCGSCQPSVESAEESCPSITAALKELHELLVVSSKPASENTSEEVICQSETIAEGQTSIKDLSERWTQNEHLTQNEQCPQVSFHQAISVSVETEKLTGTSSDTGREAVENVNFRSLGDGLSTDKEGVPKSRESINKNRSVTVTSAKTSNQLHCTLGVEISPKLLAGEEDALNQTSEQTKSLSSNFILVKDLGQGIQNSVTDRPETRENVCPDASRPLLEYEPPTSHPSSSPAILPPLIFPATDIDRILRAGFTLQEALGALHRVGGNADLALLVLLAKNIVVPT |
| 4264 | sp|O00422|SAP18\_HUMAN | MAVESRVTQEEIKKEPEKPIDREKTCPLLLRVFTTNNGRHHRMDEFSRGNVPSSELQIYTWMDATLKELTSLVKEVYPEARKKGTHFNFAIVFTDVKRPGYRVKEIGSTMSGRKGTDDSMTLQSQKFQIGDYLDIAITPPNRAPPPSGRMRPY |
| 4265 | sp|P06105|SC160\_YEAST | MSEEQTAIDSPPSTVEGSVETVTTIDSPSTTASTIAATAEEHPQLEKKPTPLPSLKDLPSLGSNAAFANVKVSWGPNMKPAVSNSPSPSPSAPSLTTGLGAKRMRSKNIQEAFTLDLQSQLSITKPELSRIVQSVKKNHDVSVESTLSKNARTFLVSGVAANVHEAKRELVKKLTKPINAVIEVPSKCKASIIGSGGRTIREISDAYEVKINVSKEVNENSYDEDMDDTTSNVSLFGDFESVNLAKAKILAIVKEETKNATIKLVVEDEKYLPYIDVSEFASDEGDEEVKVQFYKKSGDIVILGPREKAKATKTSIQDYLKKLASNLDEEKVKIPSKFQFLIDAEELKEKYNVIVTFPSTPDDELVSFVGLRDKVGEAITYARSSSKSYVVESLDISKAHSKNLTHAKNLIMYFTKYSVLKGLEESHPNVKISLPSIQSLPTAETVTIHISAKSDEANDIKAVRKELISFVNNIPPSETLVITDLDYELFGGSIKHCLLASESSVAFVQFGDYYPNDNSILLVALTEDEDFKPSIEEIQASLNKANESLNSLRTKQNNMETKTYEFSEEVQDSLFKPSSATWKLIMEDISEQEGHLQIKLHTPEENQLTVRGDEKAAKAANKIFESILNSPSSKSKMTVNIPANSVARLIGNKGSNLQQIREKFACQIDIPNEENNNASKDKTVEVTLTGLEYNLTHAKKYLAAEAKKWADIITKELIVPVKFHGSLIGPHGTYRNRLQEKYNVFINFPRDNEIVTIRGPSRGVNKAHEELKALLDFEMENGHKMVINVPAEHVPRIIGKNGDNINDIRAEYGVEMDFLQKSTDPKAQETGEVELEITGSRQNIKDAAKRVESIVAEASDFVTEVLKIDHKYHKSIVGSGGHILREIISKAGGEEIRNKSVDIPNADSENKDITVQGPQKFVKKVVEEINKIVKDAENSVTKTIDIPAERKGALIGPGGIVRRQLESEFNINLFVPNKDDPSGKITITGAPENVEKAEKKILNEIIRENFDREVDVPASIYEYVSERGAFIQKLRMDLSVNVRFGNTSKKANKLARAPIEIPLEKVCGSTEGENAEKTKFTIEEVGAPTSSEEGDITMRLTYEPIDLSSILSDGEEKEVTKDTSNDSAKKEEALDTAVKLIKERIAKAPSATYAGYVWGADTRRFNMIVGPGGSNIKKIREAADVIINVPRKSDKVNDVVYIRGTKAGVEKAGEMVLKSLRR |
| 4266 | sp|Q9NTJ5|SAC1\_HUMAN | MATAAYEQLKLHITPEKFYVEACDDGADDVLTIDRVSTEVTLAVKKDVPPSAVTRPIFGILGTIHLVAGNYLIVITKKIKVGEFFSHVVWKATDFDVLSYKKTMLHLTDIQLQDNKTFLAMLNHVLNVDGFYFSTTYDLTHTLQRLSNTSPEFQEMSLLERADQRFVWNGHLLRELSAQPEVHRFALPVLHGFITMHSCSINGKYFDWILISRRSCFRAGVRYYVRGIDSEGHAANFVETEQIVHYNGSKASFVQTRGSIPVFWSQRPNLKYKPLPQISKVANHMDGFQRHFDSQVIIYGKQVIINLINQKGSEKPLEQTFATMVSSLGSGMMRYIAFDFHKECKNMRWDRLSILLDQVAEMQDELSYFLVDSAGQVVANQEGVFRSNCMDCLDRTNVIQSLLARRSLQAQLQRLGVLHVGQKLEEQDEFEKIYKNAWADNANACAKQYAGTGALKTDFTRTGKRTHLGLIMDGWNSMIRYYKNNFSDGFRQDSIDLFLGNYSVDELESHSPLSVPRDWKFLALPIIMVVAFSMCIICLLMAGDTWTETLAYVLFWGVASIGTFFIILYNGKDFVDAPRLVQKEKID |
| 4267 | sp|P20606|SAR1\_YEAST | MAGWDIFGWFRDVLASLGLWNKHGKLLFLGLDNAGKTTLLHMLKNDRLATLQPTWHPTSEELAIGNIKFTTFDLGGHIQARRLWKDYFPEVNGIVFLVDAADPERFDEARVELDALFNIAELKDVPFVILGNKIDAPNAVSEAELRSALGLLNTTGSQRIEGQRPVEVFMCSVVMRNGYLEAFQWLSQYI |
| 4268 | sp|Q9C5G5|SAC7\_ARATH | METVDSRNKLHSRLRLWEFPDQYIIEPADGSGSSCLDISRVDASMKLIDQVPESNSVRVPKIRSIFGVVGMLKLLAGSYLVVVTESERVGSFLGHPIFKVTTLKVLPCDHSLKNSPEEQKKMETEFSKLLSVAEKTTGLYFSYEVNLTLSSQRLHEMGDESKSLPLWRQAEPRFLWNNYMLEVLIDNKLDQFLLPVIQGSFNSFETAIGRDIVDITLIARRCTRRNGTRMWRRGADLDGYVANFVETEQIVQMNGYTSSFVQVRGSMPFMWEQVVDLTYKPKFEIVQPEEAKRIAERHFLDLRKKYGSVLAVDLVNKQGGEGRLCEKYATVMQHITGDDIRYLHFDFHQICGHIHFERLSILYEQIEGFLEKNGYFLLNEKGEKMKEQLGVVRSNCIDCLDRTNVTQSMIGRKMLEVQLKRIGVFGAEETISSHLNFDEHYKILWANHGDEISIQYSGTPALKGDFVRYGHRTAHGVLKDGWSSLRRYYLNNFADGTKQDAIDLLQGHYIVAVSRDMAPVPQKGGLEAVANFPVALFVVLMSFWFATMSLKQTGSDYKHKHLFFSLLWTGICVGMAALVRANGRIFCNRPRLHKPRG |
| 4269 | sp|P10960|SAP\_RAT | MYALALLASLLVTALTSPVQDPKICSGGSAVVCRDVKTAVDCRAVKHCQQMVWSKPTAKSLPCDICKTVVTEAGNLLKDNATEEEILHYLEKTCAWIHDSSLSASCKEVVDSYLPVILDMIKGEMSNPGEVCSALNLCQSLQEYLAEQNQRQLESNKIPEVDLARVVAPFMSNIPLLLYPQDRPRSQPQPKANEDVCQDCMKLVTDIQTAVRTNSSFVQGLVDHVKEDCDRLGPGVSDICKNYVDQYSEVAVQMMMHMQPKEICVMVGFCDEVKRVPMRTLVPATEAIKNILPALELTDPYEQDVIQAQNVIFCQVCQLVMRKLSELIINNATEELLIKGLSKACSLLPAPASTKCQEVLVTFGPSLLDVLMHEVNPNFLCGVISLCSANPNLVGTLEQPAAAIVSALPKEPAPPKQPEEPKQSALRAHVPPQKNGGFCEVCKKLVIYLEHNLEKNSTKEEILAALEKGCSFLPDPYQKQCDEFVAEYEPLLLEILVEVMDPSFVCSKIGVCPSAYKLLLGTEKCVWGPGYWCQNSETAARCNAVDHCKRHVWN |
| 4270 | sp|Q96H72|S39AD\_HUMAN | MPGCPCPGCGMAGPRLLFLTALALELLERAGGSQPALRSRGTATACRLDNKESESWGALLSGERLDTWICSLLGSLMVGLSGVFPLLVIPLEMGTMLRSEAGAWRLKQLLSFALGGLLGNVFLHLLPEAWAYTCSASPGGEGQSLQQQQQLGLWVIAGILTFLALEKMFLDSKEEGTSQAPNKDPTAAAAALNGGHCLAQPAAEPGLGAVVRSIKVSGYLNLLANTIDNFTHGLAVAASFLVSKKIGLLTTMAILLHEIPHEVGDFAILLRAGFDRWSAAKLQLSTALGGLLGAGFAICTQSPKGVVGCSPAAEETAAWVLPFTSGGFLYIALVNVLPDLLEEEDPWRSLQQLLLLCAGIVVMVLFSLFVD |
| 4271 | sp|P50115|S10A8\_RAT | MATELEKALSNVIEVYHNYSGIKGNHHALYRDDFRKMVTTECPQFVQNKNTESLFKELDVNSDNAINFEEFLVLVIRVGVAAHKDSHKE |
| 4272 | sp|Q2G1M5|SBNI\_STAA8 | MNHIHEHLKLVPVDKIDLHETFEPLRLEKTKSSIEADDFIRHPILVTAMQHGRYMVIDGVHRYTSLKALGCKKVPVQEIHETQYSISTWQHKVPFGVWWETLQQEHRLPWTTETRQEAPFITMCHGDTEQYLYTKDLGEAHFQVWEKVVASYSGCCSVERIAQGTYPCLSQQDVLMKYQPLSYKEIEAVVHKGETVPAGVTRFNISGRCLNLQVPLALLKQDDDVEQLRNWKQFLADKFANMRCYTEKVYLVEQ |
| 4273 | sp|Q9UMX9|S45A2\_HUMAN | MGSNSGQAGRHIYKSLADDGPFDSVEPPKRPTSRLIMHSMAMFGREFCYAVEAAYVTPVLLSVGLPSSLYSIVWFLSPILGFLLQPVVGSASDHCRSRWGRRRPYILTLGVMMLVGMALYLNGATVVAALIANPRRKLVWAISVTMIGVVLFDFAADFIDGPIKAYLFDVCSHQDKEKGLHYHALFTGFGGALGYLLGAIDWAHLELGRLLGTEFQVMFFFSALVLTLCFTVHLCSISEAPLTEVAKGIPPQQTPQDPPLSSDGMYEYGSIEKVKNGYVNPELAMQGAKNKNHAEQTRRAMTLKSLLRALVNMPPHYRYLCISHLIGWTAFLSNMLFFTDFMGQIVYRGDPYSAHNSTEFLIYERGVEVGCWGLCINSVFSSLYSYFQKVLVSYIGLKGLYFTGYLLFGLGTGFIGLFPNVYSTLVLCSLFGVMSSTLYTVPFNLITEYHREEEKERQQAPGGDPDNSVRGKGMDCATLTCMVQLAQILVGGGLGFLVNTAGTVVVVVITASAVALIGCCFVALFVRYVD |
| 4274 | sp|P29034|S10A2\_HUMAN | MMCSSLEQALAVLVTTFHKYSCQEGDKFKLSKGEMKELLHKELPSFVGEKVDEEGLKKLMGSLDENSDQQVDFQEYAVFLALITVMCNDFFQGCPDRP |
| 4275 | sp|Q96DX8|RTP4\_HUMAN | MVVDFWTWEQTFQELIQEAKPRATWTLKLDGNLQLDCLAQGWKQYQQRAFGWFRCSSCQRSWASAQVQILCHTYWEHWTSQGQVRMRLFGQRCQKCSWSQYEMPEFSSDSTMRILSNLVQHILKKYYGNGTRKSPEMPVILEVSLEGSHDTANCEACTLGICGQGLKSCMTKPSKSLLPHLKTGNSSPGIGAVYLANQAKNQSAEAKEAKGSGYEKLGPSRDPDPLNICVFILLLVFIVVKCFTSE |
| 4276 | sp|Q9Z306|S22A4\_MOUSE | MRDYDEVIAFLGEWGPFQRLIFFLLSASIIPNGFNGMSVVFLAGTPEHRCLVPDTVNLSSSWRNHSIPLETKDGRQVPQSCRRYRLATIANFSAMGLEPGQDVDLEQLEQESCLDGWEYDKDIFLSTIVTEWNLVCEDDWKTPLTTSLFFVGVLCGSFVSGQLSDRFGRKKVLFATMAVQTGFSFVQIFSTNWEMFTVLFAIVGMGQISNYVVAFILGTEILSKSVRIIFSTLGVCTFFAIGYMVLPLFAYFIRDWRMLLLALTLPGLFCVPLWWFIPESPRWLISQRRFAEAEQIIQKAAKMNSIVAPAGIFDPLELQELNSLKQQKVIILDLFRTRNIATITVMAVMLWMLTSVGYFALSLNVPNLHGDVYLNCFLSGLIEVPAYFTAWLLLRTLPRRYIIAGVLFWGGGVLLLIQVVPEDYNFVSIGLVMLGKFGITSAFSMLYVFTAELYPTLVRNMAVGITSMASRVGSIIAPYFVYLGAYNRLLPYILMGSLTVLIGIITLFFPESFGVTLPENLEQMQKVRGFRCGKKSTVSVDREESPKVLITAF |
| 4277 | sp|Q99P72|RTN4\_MOUSE | MEDIDQSSLVSSSADSPPRPPPAFKYQFVTEPEDEEDEEDEEEEEDDEDLEELEVLERKPAAGLSAAPVPPAAAPLLDFSSDSVPPAPRGPLPAAPPTAPERQPSWERSPAASAPSLPPAAAVLPSKLPEDDEPPARPPAPAGASPLAEPAAPPSTPAAPKRRGSGSVDETLFALPAASEPVIPSSAEKIMDLKEQPGNTVSSGQEDFPSVLFETAASLPSLSPLSTVSFKEHGYLGNLSAVASTEGTIEETLNEASRELPERATNPFVNRESAEFSVLEYSEMGSSFNGSPKGESAMLVENTKEEVIVRSKDKEDLVCSAALHNPQESPATLTKVVKEDGVMSPEKTMDIFNEMKMSVVAPVREEYADFKPFEQAWEVKDTYEGSRDVLAARANMESKVDKKCFEDSLEQKGHGKDSESRNENASFPRTPELVKDGSRAYITCDSFSSATESTAANIFPVLEDHTSENKTDEKKIEERKAQIITEKTSPKTSNPFLVAIHDSEADYVTTDNLSKVTEAVVATMPEGLTPDLVQEACESELNEATGTKIAYETKVDLVQTSEAIQESIYPTAQLCPSFEEAEATPSPVLPDIVMEAPLNSLLPSTGASVAQPSASPLEVPSPVSYDGIKLEPENPPPYEEAMSVALKTSDSKEEIKEPESFNAAAQEAEAPYISIACDLIKETKLSTEPSPEFSNYSEIAKFEKSVPDHCELVDDSSPESEPVDLFSDDSIPEVPQTQEEAVMLMKESLTEVSETVTQHKHKERLSASPQEVGKPYLESFQPNLHITKDAASNEIPTLTKKETISLQMEEFNTAIYSNDDLLSSKEDKMKESETFSDSSPIEIIDEFPTFVSAKDDSPKEYTDLEVSNKSEIANVQSGANSLPCSELPCDLSFKNTYPKDEAHVSDEFSKSRSSVSKVPLLLPNVSALESQIEMGNIVKPKVLTKEAEEKLPSDTEKEDRSLTAVLSAELNKTSVVDLLYWRDIKKTGVVFGASLFLLLSLTVFSIVSVTAYIALALLSVTISFRIYKGVIQAIQKSDEGHPFRAYLESEVAISEELVQKYSNSALGHVNSTIKELRRLFLVDDLVDSLKFAVLMWVFTYVGALFNGLTLLILALISLFSIPVIYERHQAQIDHYLGLANKSVKDAMAKIQAKIPGLKRKAE |
| 4278 | sp|P60468|SC61B\_HUMAN | MPGPTPSGTNVGSSGRSPSKAVAARAAGSTVRQRKNASCGTRSAGRTTSAGTGGMWRFYTEDSPGLKVGPVPVLVMSLLFIASVFMLHIWGKYTRS |
| 4279 | sp|Q32KD2|SETB1\_DROME | MSGQPTAVDCLESSGSTVEDVQETPASREKSYGLPVRKGENSLESPAEQAAKDVEIEELTHSEAIAATGSTRKQCPYGGKAPDEPGKLADESEDRKGENTKAIASSPVLVAVDSDSSVELIESPVKFSSANESEKDPPKPDAVNEAAAKEAEEMTDSSISSPTSESFPEKDEKTNKENEQEPPGMEVDQDVEESISRPAEEYKIENTLKGHKRISLTEIEEHKIVDKKDDVLEVELEKGTAPKAAEDEKLNALLSDGDVFYDKECVNCNCTKLHKQYVLANMATLNFYQVLRKSSKQQFLCMGCHDTAMDLYEEYAGQLMAKQPLLLKDFHQDHADFVALDSSDEEEEEKQPEKSDFSKNKLQLIEDELDDAIKNVLNKVDFTAQLSWSKTILQAKADHLERQFALADVELEKVQTTADKMHCALYNSCPVAHKHLPTLDIEPSDYVHEVPPPGEIVRPPIQLGETYYAVKNKAIASWVSIKVIEFTESTAINGNTMKSYKIRYLNTPYQMIKTVTAKHIAYFEPPPVRLTIGTRVIAYFDGTTLSRGKDKGVVQSAFYPGIIAEPLKQANRYRYLIFYDDGYTQYVPHRDVRLVCQASEKVWEDVHAASRDFIQKYVEKYSVDRPMVQCTRGQSMTTESNGTWLYARVIDIDCSLVLMQFEGDKNHTEWIYRGSLRLGPVFRETQNNMNSSSAQQLRVPRRTEPFIRYTKEMESSSKVNQQMRAFARKSSASAQNNALAAASSAATPAGGRTNAGGVSTSNSASAVRHLNNSTIYVDDENRPKGHVVYFTAKRNLPPKMYKCHECSPNCLFKIVHRLDSYSPLAKPLLSGWERLVMRQKTKKSVVYKGPCGKSLRSLAEVHRYLRATENVLNVDNFDFTPDLKCLAEYSIDPSIVKDTDISKGQEKMAIPLVNYYDNTLPPPCTYAKQRIPTEGVHLNLDEEFLLCCDCEDDCSDKSKCACWQLTVAGVRYCNPKKPIEEIGYQYKRLHEHVPTGIYECNSRCKCKKNCLNRVVQFSLEMKLQVFKTSNRGWGLRCVNDIPKGAFICIYAGHLLTETMANEGGQDAGDEYFADLDYIEVAEQLKEGYESEVDHSDPDAEEDNGGPDAEDDDDFRPNYHYQRKIKRSSRSGSTQNSSTQSSELDSQERAVINFNPNADLDETVRENSVRRLFGKDEAPYIMDAKTTGNLGRYFNHSCSPNLFVQNVFVDTHDLRFPWVAFFSAAHIRSGTELTWNYNYEVGVVPGKVLYCQCGAPNCRLRLL |
| 4280 | sp|P9WGV3|SAHH\_MYCTU | MTGNLVTKNSLTPDVRNGIDFKIADLSLADFGRKELRIAEHEMPGLMSLRREYAEVQPLKGARISGSLHMTVQTAVLIETLTALGAEVRWASCNIFSTQDHAAAAVVVGPHGTPDEPKGVPVFAWKGETLEEYWWAAEQMLTWPDPDKPANMILDDGGDATMLVLRGMQYEKAGVVPPAEEDDPAEWKVFLNLLRTRFETDKDKWTKIAESVKGVTEETTTGVLRLYQFAAAGDLAFPAINVNDSVTKSKFDNKYGTRHSLIDGINRGTDALIGGKKVLICGYGDVGKGCAEAMKGQGARVSVTEIDPINALQAMMEGFDVVTVEEAIGDADIVVTATGNKDIIMLEHIKAMKDHAILGNIGHFDNEIDMAGLERSGATRVNVKPQVDLWTFGDTGRSIIVLSEGRLLNLGNATGHPSFVMSNSFANQTIAQIELWTKNDEYDNEVYRLPKHLDEKVARIHVEALGGHLTKLTKEQAEYLGVDVEGPYKPDHYRY |
| 4281 | sp|Q9NRF2|SH2B1\_HUMAN | MNGAPSPEDGASPSSPPLPPPPPPSWREFCESHARAAALDFARRFRLYLASHPQYAGPGAEAAFSRRFAELFLQHFEAEVARASGSLSPPILAPLSPGAEISPHDLSLESCRVGGPLAVLGPSRSSEDLAGPLPSSVSSSSTTSSKPKLKKRFSLRSVGRSVRGSVRGILQWRGTVDPPSSAGPLETSSGPPVLGGNSNSNSSGGAGTVGRGLVSDGTSPGERWTHRFERLRLSRGGGALKDGAGMVQREELLSFMGAEEAAPDPAGVGRGGGVAGPPSGGGGQPQWQKCRLLLRSEGEGGGGSRLEFFVPPKASRPRLSIPCSSITDVRTTTALEMPDRENTFVVKVEGPSEYIMETVDAQHVKAWVSDIQECLSPGPCPATSPRPMTLPLAPGTSFLTRENTDSLELSCLNHSESLPSQDLLLGPSESNDRLSQGAYGGLSDRPSASISPSSASIAASHFDSMELLPPELPPRIPIEEGPPTGTVHPLSAPYPPLDTPETATGSFLFQGEPEGGEGDQPLSGYPWFHGMLSRLKAAQLVLTGGTGSHGVFLVRQSETRRGEYVLTFNFQGKAKHLRLSLNEEGQCRVQHLWFQSIFDMLEHFRVHPIPLESGGSSDVVLVSYVPSSQRQQEPTTSHDPPQPPEPPSWTDPPQPGAEEASRAPEVAAAAAAAAKERQEKEKAGGGGVPEELVPVVELVPVVELEEAIAPGSEAQGAGSGGDAGVPPMVQLQQSPLGGDGEEGGHPRAINNQYSFV |
| 4282 | sp|Q9ERE3|SGK3\_MOUSE | MQRDCIMDYKESCPSVSIPSSDEHREKKKRFTVYKVLVSVGRSEWFVFRRYAEFDKLYNSLKKQFPAMALKIPAKRIFGDNFDPDFIKQRRAGLNEFIQNLVRYPELYNHPDVRAFLQMDSPRHQSDPSEDEDERSTSKPHSTSRNINLGPTGNPHAKPTDFDFLKVIGKGSFGKVLLAKRKLDGKFYAVKVLQKKIVLNRKEQKHIMAERNVLLKNVKHPFLVGLHYSFQTTEKLYFVLDFVNGGELFFHLQRERSFPEPRARFYAAEIASALGYLHSIKIVYRDLKPENILLDSMGHVVLTDFGLCKEGIAISDTTTTFCGTPEYLAPEVIRKQPYDNTVDWWCLGAVLYEMLYGLPPFYCRDVAEMYDNILHKPLNLRPGVSLTAWSILEELLEKNRQNRLGAKEDFLEIQNHPFFESLSWTDLVQKKIPPPFNPNVAGPDDIRNFDAVFTEETVPYSVCVSSDYSIVNASVLEADDAFVGFSYAPPSEDLFL |
| 4283 | sp|Q24141|SGO1\_DROME | MGSKVEQQYKLLNAELMDQVQKQRLEIGEYRKRVISLEREIMDIREEHVLQNHRQRMENISIVRSLMLSLNVDSDSLAVRQEPAPAAQINRPSGPRRSSREICKDMRRTCALARTTRPISPRRSSSVTSTVSSTSRRSSAEVQSEVVTTRIPEDRRANKPTPPPRRPAELVFDEDDSDDDFDEAVSPVEETQTEQNEENNRLFSIIEENGSEGESTDSSSSCEAIYCDTTFESSPPNAQVTVTPSGRALREVDTNIPVAVSLSRGKETGKGSWLAISVAVEDSPQEPSIQCPRLAVTRPSQSSGIFPDVNGLTPRRSLFNGIGKMAGSTSTPKSFLVEEMPSIRTRSRTAANKKSENTDMSSSFCNNSARPSRSCRPTSLVEPSLKNKLRNGSKGKAKAKK |
| 4284 | sp|Q62232|SIX2\_MOUSE | MSMLPTFGFTQEQVACVCEVLQQGGNIERLGRFLWSLPACEHLHKNESVLKAKAVVAFHRGNFRELYKILESHQFSPHNHAKLQQLWLKAHYIEAEKLRGRPLGAVGKYRVRRKFPLPRSIWDGEETSYCFKEKSRSVLREWYAHNPYPSPREKRELAEATGLTTTQVSNWFKNRRQRDRAAEAKERENSENSNSSSHNPLASSLNGSGKSVLGSSEDEKTPSGTPDHSSSSPALLLSPPPPPGLPSLHSLGHPPGPSAVPVPVPGGGGADPLQHHHSLQDSILNPMSANLVDLGS |
| 4285 | sp|P32578|SIP1\_YEAST | MGNSPSTQDPSHSTKKEHGHHFHDAFNKDRQGSITSQLFNNRKSTHKRRASHTSEHNGAIPPRMQLLASHDPSTDCDGRMSSDTTIDKGPSHLFKKDYSLSSAADVNDTTLANLTLSDDHDVGAPEEQVKSPSFLSPGPSMATVKRTKSDLDDLSTLNYTMVDETTENERNDKPHHERHRSSIIALKKNLLESSATASPSPTRSSSVHSASLPALTKTDSIDIPVRQPYSKKPSIHAYQYQYLNNDETFSENSQMDKEGNSDSVDAEAGVLQSEDMVLNQSLLQNALKKDMQRLSRVNSSNSMYTAERISHANNNGNIENNTRNKGNAGGSNDDFTAPISATAKMMMKLYGDKTLMERDLNKHHNKTKKAQNKKIRSVSNSRRSSFASLHSLQSRKSILTNGLNLQPLHPLHPIINDNESQYSAPQHREISHHSNSMSSMSSISSTNSTENTLVVLKWKDDGTVAATTEVFIVSTDIASALKEQRELTLDENASLDSEKQLNPRIRMVYDDVHKEWFVPDLFLPAGIYRLQFSINGILTHSNFLPTATDSEGNFVNWFEVLPGYHTIEPFRNEADIDSQVEPTLDEELPKRPELKRFPSSSRKSSYYSAKGVERPSTPFSDYRGLSRSSSINMRDSFVRLKASSLDLMAEVKPERLVYSNEIPNLFNIGDGSTISVKGDSDDVHPQEPPSFTHRVVDCNQDDLFATLQQGGNIDAETAEAVFLSRYPVPDLPIYLNSSYLNRILNQSNQNSESHERDEGAINHIIPHVNLNHLLTSSIRDEIISVACTTRYEGKFITQVVYAPCYYKTQKSQISN |
| 4286 | sp|O70593|SGTA\_RAT | MDNRKRLAYAIIQFLHGQLRHGGLSSDAQESLEVAIQCLETAFGVTLEDSDLALPQTLPEIFEAATASKEMPQDPRGPDRTPPSEEDSAEAERLKTEGNEQMKLENFEAAVHLYGKAIELNPANAVYFCNRAAAYSKLGNYVGAVQDCERAIGIDPGYSKAYGRMGLALSSLNKHAEAVAYYKKALELDPDNDTYKSNLKIAELKLREAPSPTGGVGSLDIAGLLNNPHFITMASSLMNSPQLQQLMSGMISGGHNPLGTPGSSPQHSDLASLIQAGQQFAQQMQQQNPEFVEQIRSQVVRSRTPSASHEEQQE |
| 4287 | sp|Q91Y81|SEPT2\_RAT | MSKQQPTQFINPETPGYVGFANLPNQVHRKSVKKGFEFTLMVVGESGLGKSTLINSLFLTDLYPERIIPGAAEKIERTVQIEASTVEIEERGVKLRLTVVDTPGYGDAINSRDCFKTIISYIDEQFERYLHDESGLNRRHIIDNRVHCCFYFISPFGHGLKPLDVAFMKAIHNKVNIVPVIAKADTLTLKERERLKKRILDEIEEHSIKIYHLPDAESDEDEDFKEQTRLLKASIPFSVVGSNQLIEAKGKKVRGRLYPWGVVEVENPEHNDFLKLRTMLITHMQDLQEVTQDLHYENFRSERLKRGGRKVENEDMNKDQILLEKEAELRRMQEMIARMQAQMQMQMQGGDTDSSTLGHHV |
| 4288 | sp|Q9UQQ2|SH2B3\_HUMAN | MNGPALQPSSPSSAPSASPAAAPRGWSEFCELHAVAAARELARQYWLFAREHPQHAPLRAELVSLQFTDLFQRYFCREVRDGRAPGRDYRDTGRGPPAKAEASPEPGPGPAAPGLPKARSSEELAPPRPPGPCSFQHFRRSLRHIFRRRSAGELPAAHTAAAPGTPGEAAETPARPGLAKKFLPWSLAREPPPEALKEAVLRYSLADEASMDSGARWQRGRLALRRAPGPDGPDRVLELFDPPKSSRPKLQAACSSIQEVRWCTRLEMPDNLYTFVLKVKDRTDIIFEVGDEQQLNSWMAELSECTGRGLESTEAEMHIPSALEPSTSSSPRGSTDSLNQGASPGGLLDPACQKTDHFLSCYPWFHGPISRVKAAQLVQLQGPDAHGVFLVRQSETRRGEYVLTFNFQGIAKHLRLSLTERGQCRVQHLHFPSVVDMLHHFQRSPIPLECGAACDVRLSSYVVVVSQPPGSCNTVLFPFSLPHWDSESLPHWGSELGLPHLSSSGCPRGLSPEGLPGRSSPPEQIFHLVPSPEELANSLQHLEHEPVNRARDSDYEMDSSSRSHLRAIDNQYTPL |
| 4289 | sp|Q99719|SEPT5\_HUMAN | MSTGLRYKSKLATPEDKQDIDKQYVGFATLPNQVHRKSVKKGFDFTLMVAGESGLGKSTLVHSLFLTDLYKDRKLLSAEERISQTVEILKHTVDIEEKGVKLKLTIVDTPGFGDAVNNTECWKPITDYVDQQFEQYFRDESGLNRKNIQDNRVHCCLYFISPFGHGLRPVDVGFMKALHEKVNIVPLIAKADCLVPSEIRKLKERIREEIDKFGIHVYQFPECDSDEDEDFKQQDRELKESAPFAVIGSNTVVEAKGQRVRGRLYPWGIVEVENQAHCDFVKLRNMLIRTHMHDLKDVTCDVHYENYRAHCIQQMTSKLTQDSRMESPIPILPLPTPDAETEKLIRMKDEELRRMQEMLQRMKQQMQDQ |
| 4290 | sp|A0MZ67|SHOT1\_RAT | MNSSDEEKQLQLITSLKEQAIGEYEDLRAENQKTKETCDKIRQERDEAVKKLEEFQKISHMVIEEVNFMQNHLEIEKTCRESAEALATKLNKENKTLKRISMLYMAKLGPDVITEEINIDDDDPGTDTDAAAETCVSVQCQKQIKELRDQIVSVQEEKKVLAIELESLKSKLGEVMEEVNKVKQEKAVLNSEVLEQRKVLEKCNRVSVLAVEEYEELQVNLELEKDLRKKAESFAQEMFIEQNKLKRQSHLLLQSSLPDQQLLKALDENAKLIQQLEEERIQHQQKVKELEERLENEALHKEIHNLRQQLELLEDDKRELEQKYQSSEEKARNLKHSVDELQKRVNQSENSVPPPPPPPPPLPPPPPNPIRSLMSMIRKRSHPSGGSTKKEKATQPETAEEVTDLKRQAVEEMMDRIKKGVHLRPVNQTARPKAKPDSLKGSESAVDELKGILGTLNKSTSSRSLKSLGPENSETELERILRRRKLTAEADSSSPTGILATSESKSMPVLGSVSSVTKSALNKKTLEAEFNNPCPLTPEPGEGPRKLEGCTNSKVTFQPPSKGGYRRKCVGSENQSEPVVVLDPVSTHEPQTKDQAAEKDPTQCKEEERGETQPEFKEDSSGGKTGETDSSNC |
| 4291 | sp|Q9Y2K2|SIK3\_HUMAN | MAAAAASGAGGAAGAGTGGAGPAGRLLPPPAPGSPAAPAAVSPAAGQPRPPAPASRGPMPARIGYYEIDRTIGKGNFAVVKRATHLVTKAKVAIKIIDKTQLDEENLKKIFREVQIMKMLCHPHIIRLYQVMETERMIYLVTEYASGGEIFDHLVAHGRMAEKEARRKFKQIVTAVYFCHCRNIVHRDLKAENLLLDANLNIKIADFGFSNLFTPGQLLKTWCGSPPYAAPELFEGKEYDGPKVDIWSLGVVLYVLVCGALPFDGSTLQNLRARVLSGKFRIPFFMSTECEHLIRHMLVLDPNKRLSMEQICKHKWMKLGDADPNFDRLIAECQQLKEERQVDPLNEDVLLAMEDMGLDKEQTLQSLRSDAYDHYSAIYSLLCDRHKRHKTLRLGALPSMPRALAFQAPVNIQAEQAGTAMNISVPQVQLINPENQIVEPDGTLNLDSDEGEEPSPEALVRYLSMRRHTVGVADPRTEVMEDLQKLLPGFPGVNPQAPFLQVAPNVNFMHNLLPMQNLQPTGQLEYKEQSLLQPPTLQLLNGMGPLGRRASDGGANIQLHAQQLLKRPRGPSPLVTMTPAVPAVTPVDEESSDGEPDQEAVQSSTYKDSNTLHLPTERFSPVRRFSDGAASIQAFKAHLEKMGNNSSIKQLQQECEQLQKMYGGQIDERTLEKTQQQHMLYQQEQHHQILQQQIQDSICPPQPSPPLQAACENQPALLTHQLQRLRIQPSSPPPNHPNNHLFRQPSNSPPPMSSAMIQPHGAASSSQFQGLPSRSAIFQQQPENCSSPPNVALTCLGMQQPAQSQQVTIQVQEPVDMLSNMPGTAAGSSGRGISISPSAGQMQMQHRTNLMATLSYGHRPLSKQLSADSAEAHSLNVNRFSPANYDQAHLHPHLFSDQSRGSPSSYSPSTGVGFSPTQALKVPPLDQFPTFPPSAHQQPPHYTTSALQQALLSPTPPDYTRHQQVPHILQGLLSPRHSLTGHSDIRLPPTEFAQLIKRQQQQRQQQQQQQQQQEYQELFRHMNQGDAGSLAPSLGGQSMTERQALSYQNADSYHHHTSPQHLLQIRAQECVSQASSPTPPHGYAHQPALMHSESMEEDCSCEGAKDGFQDSKSSSTLTKGCHDSPLLLSTGGPGDPESLLGTVSHAQELGIHPYGHQPTAAFSKNKVPSREPVIGNCMDRSSPGQAVELPDHNGLGYPARPSVHEHHRPRALQRHHTIQNSDDAYVQLDNLPGMSLVAGKALSSARMSDAVLSQSSLMGSQQFQDGENEECGASLGGHEHPDLSDGSQHLNSSCYPSTCITDILLSYKHPEVSFSMEQAGV |
| 4292 | sp|Q63673|SHH\_RAT | MLLLLARCFLVALASSLLVCPGLACGPGRGFGKRQHPKKLTPLAYKQFIPNVAEKTLGASGRYEGKITRNSERFKELTPNYNPDIIFKDEENTGADRLMTQRCKDKLNALAISVMNQWPGVKLRVTEGWDEDGHHSEESLHYEGRAVDITTSDRDRSKYGMLARLAVEAGFDWVYYESKARIHCSVKAENSVAAKSDGCFPGSATVHLEQGGTKLVKDLSPGDRVLAADDQGRLLYSDFLTFLDRDEGAKKVFYVIETREPRERLLLTAAHLLFVAPHNDSGPTPGPSPLFASRVRPGQRVYVVAERGGDRRLLPAAVHSVTLREEAAGAYAPLTADGTILINRVLASCYAVIEEHSWAHRAFAPFRLAHALLAALAPARTDGGGGGSIPAPQSVAEARGAGPPAGIHWYSQLLYHIGTWLLDSETLHPLGMAVKSS |
| 4293 | sp|Q9NR46|SHLB2\_HUMAN | MDFNMKKLASDAGIFFTRAVQFTEEKFGQAEKTELDAHFENLLARADSTKNWTEKILRQTEVLLQPNPSARVEEFLYEKLDRKVPSRVTNGELLAQYMADAASELGPTTPYGKTLIKVAEAEKQLGAAERDFIHTASISFLTPLRNFLEGDWKTISKERRLLQNRRLDLDACKARLKKAKAAEAKATTVPDFQETRPRNYILSASASALWNDEVDKAEQELRVAQTEFDRQAEVTRLLLEGISSTHVNHLRCLHEFVKSQTTYYAQCYRHMLDLQKQLGRFPGTFVGTTEPASPPLSSTSPTTAAATMPVVPSVASLAPPGEASLCLEEVAPPASGTRKARVLYDYEAADSSELALLADELITVYSLPGMDPDWLIGERGNKKGKVPVTYLELLS |
| 4294 | sp|A2SWM2|SPNS2\_DANRE | MCVESDGCEIEGCSSSDEVHTLSGSMSPALKSRDLHHCRPGQKFHAALLRCRTPLVAAGILSFGNVLNYMDRYTVAGVLLDIQKQFKVGDSSAGLLQTVFICSFMVAAPIFGYLGDRFNRKIILSCGIFFWSAVTLLSSFITKEYYWLLVLSRCLVGIGESSYSSISPTIIGDLFTNNKRTVMLSVFYLAIPLGSGLGYILGSIAKDAGGHWYWALRVSPMLGLTAGTLILIFVSEPKRGSADQPGGRLKTRTSWVCDMKALAKNRSYVFSSLASAAVSFATGAFGIWIPQYLVRAQVVQKSAESCTYQPCSSRDSLIFGAITCVTGLLGVVIGAVTTRLCRQKTERADPLVCAVSMLGSAIFICLIFVVAKKSIVGAYICIFIGETLLFLNWAITADILMYVVIPTRRATAVAFQGFTSHLLGDAGSPYLIGLISDSLQESYATSEIWQFLSLGYALMLCPFVIVLGGMFFLATALFFLDDRDKAAKQVNQLARPPSTVKVTK |
| 4295 | sp|Q949S9|SPF27\_ARATH | MATNNGDVLMLEATPEAARPWASAANAEVIDALPYIDDDYGNPLIKSEVDRLVEEEMRRSSKKPADFLKDLPPLPKFDFKNCPVLGKEYERVRAGKPPVRIDFESRYKLEMPPANKRNDDAAWKQYLQKNQRSLQQKLIELENLELMSKLGPELWRQNNHRLEVFLTRMQRLAQEQNEEIEKVNRERKYHQQTTSYELNALSQEWRQLCVKNMEIQSACAMLETQIDSFKKEAAERGWNLEEKLENVEPLQMQ |
| 4296 | sp|Q007T0|SDHB\_PIG | MAAVVAVSLKRWFPATTLGGACLQACRGAQTAAATAPRIKKFAIYRWDPDKTGDKPHMQTYEIDLNNCGPMVLDALIKIKNEIDSTLTFRRSCREGICGSCAMNINGGNTLACTRRIDTNLDKVSKIYPLPHMYVIKDLVPDLSNFYAQYKSIEPYLKKKDESQEGKQQYLQSIEEREKLDGLYECILCACCSTSCPSYWWNGDKYLGPAVLMQAYRWMIDSRDDFTEERLAKLQDPFSLYRCHTIMNCTGTCPKGLNPGKAIAEIKKMMATYKEKKASA |
| 4297 | sp|Q9C9C9|SOT18\_ARATH | MESETLTAKATITTTTLPSHDETKTESTEFEKNQKRYQDLISTFPHEKGWRPKEPLIEYGGYWWLPSLLEGCIHAQEFFQARPSDFLVCSYPKTGTTWLKALTFAIANRSRFDDSSNPLLKRNPHEFVPYIEIDFPFFPEVDVLKDKGNTLFSTHIPYELLPDSVVKSGCKMVYIWREPKDTFISMWTFLHKERTELGPVSNLEESFDMFCRGLSGYGPYLNHILAYWKAYQENPDRILFLKYETMRADPLPYVKSLAEFMGHGFTAEEEEKGVVEKVVNLCSFETLKNLEANKGEKDREDRPGVYANSAYFRKGKVGDWSNYLTPEMAARIDGLMEEKFKGTGLLEHGK |
| 4298 | sp|P35237|SPB6\_HUMAN | MDVLAEANGTFALNLLKTLGKDNSKNVFFSPMSMSCALAMVYMGAKGNTAAQMAQILSFNKSGGGGDIHQGFQSLLTEVNKTGTQYLLRMANRLFGEKSCDFLSSFRDSCQKFYQAEMEELDFISAVEKSRKHINTWVAEKTEGKIAELLSPGSVDPLTRLVLVNAVYFRGNWDEQFDKENTEERLFKVSKNEEKPVQMMFKQSTFKKTYIGEIFTQILVLPYVGKELNMIIMLPDETTDLRTVEKELTYEKFVEWTRLDMMDEEEVEVSLPRFKLEESYDMESVLRNLGMTDAFELGKADFSGMSQTDLSLSKVVHKSFVEVNEEGTEAAAATAAIMMMRCARFVPRFCADHPFLFFIQHSKTNGILFCGRFSSP |
| 4299 | sp|Q9QX78|SOCS1\_RAT | MVARNQVAADNAISPASEPRRRPEPSSSSSSSSPAAPRRPRPCPVVPAPAPGDTHFRTFRSHSDYRRITRTSALLDACGFYWGPLSVHGAHERLRAEPVGTFLVRDSRQRNCFFALSVKMASGPTSIRVHFQAGRFHLDGSRETFDCLFELLEHYVAAPRRMLGAPLRQRRVRPLQELCRQRIVAAVGRENLARIPLNPVLRDYLSSFPFQI |
| 4300 | sp|P20332|SOMA2\_ONCMY | MGQVFLLMPVLLVSCFLGQGAAMENQRLFNIAVNRVQHLHLLAQKMFNDFEGTLLPDERRQLNKIFLLDFCNSDSIVSPIDKQETQKSSVLKLLHISFRLIESWEYPSQTLTISNSLMVRNSNQISEKLSDLKVGINLLIKGSQDGVLSLDDNDSQHLPPYGNYYQNLGGDGNVRRNYELLACFKKDMHKVETYLTVAKCRKYLEANCTL |
| 4301 | sp|Q04890|SOX12\_MOUSE | MVQQRGARAKRDGGPPPPGPGPAAEGAREPGWCKTPSGHIKRPMNAFMVWSQHERRKIMDQWPDMHNAEISKRLGRRWQLLQDSEKIPFVREAERLRLKHMADYPDYKYRPRKKSKGAPAKARPRPPGGGGGGSRLKPGPQLPGRGGRRASGGPLGGGAAAPEDDDEDEEEELLEVRLLETPGRELWRMVPAGRAARGPAERAQGPSGEGAAASAASPTLSEDEEPEEEEEEAATAEEGEEETVVSGEEPLGFLSRMPPGPAGLDCSALDRDPDLLPPSGTSHFEFPDYCTPEVTEMIAGDWRSSSIADLVFTY |
| 4302 | sp|Q96GP6|SREC2\_HUMAN | MEGAGPRGAGPARRRGAGGPPSPLLPSLLLLLLLWMLPDTVAPQELNPRGRNVCRAPGSQVPTCCAGWRQQGDECGIAVCEGNSTCSENEVCVRPGECRCRHGYFGANCDTKCPRQFWGPDCKELCSCHPHGQCEDVTGQCTCHARRWGARCEHACQCQHGTCHPRSGACRCEPGWWGAQCASACYCSATSRCDPQTGACLCHAGWWGRSCNNQCACNSSPCEQQSGRCQCRERTFGARCDRYCQCFRGRCHPVDGTCACEPGYRGKYCREPCPAGFYGLGCRRRCGQCKGQQPCTVAEGRCLTCEPGWNGTKCDQPCATGFYGEGCSHRCPPCRDGHACNHVTGKCTRCNAGWIGDRCETKCSNGTYGEDCAFVCADCGSGHCDFQSGRCLCSPGVHGPHCNVTCPPGLHGADCAQACSCHEDTCDPVTGACHLETNQRKGVMGAGALLVLLVCLLLSLLGCCCACRGKDPTRRPRPRRELSLGRKKAPHRLCGRFSRISMKLPRIPLRRQKLPKVVVAHHDLDNTLNCSFLEPPSGLEQPSPSWSSRASFSSFDTTDEGPVYCVPHEEAPAESRDPEVPTVPAEAPAPSPVPLTTPASAEEAIPLPASSDSERSASSVEGPGGALYARVARREARPARARGEIGGLSLSPSPERRKPPPPDPATKPKVSWIHGKHSAAAAGRAPSPPPPGSEAAPSPSKRKRTPSDKSAHTVEHGSPRTRDPTPRPPGLPEEATALAAPSPPRARARGRGPGLLEPTDAGGPPRSAPEAASMLAAELRGKTRSLGRAEVALGAQGPREKPAPPQKAKRSVPPASPARAPPATETPGPEKAATDLPAPETPRKKTPIQKPPRKKSREAAGELGRAGAPTL |
| 4303 | sp|Q5JUK2|SOLH1\_HUMAN | MASRCSEPYPEVSRIPTVRGCNGSLSGALSCCEDSARGSGPPKAPTVAEGPSSCLRRNVISERERRKRMSLSCERLRALLPQFDGRREDMASVLEMSVQFLRLASALGPSQEQHAILASSKEMWHSLQEDVLQLTLSSQIQAGVPDPGTGASSGTRTPDVKAFLESPWSLDPASASPEPVPHILASSRQWDPASCTSLGTDKCEALLGLCQVRGGLPPFSEPSSLVPWPPGRSLPKAVRPPLSWPPFSQQQTLPVMSGEALGWLGQAGPLAMGAAPLGEPAKEDPMLAQEAGSALGSDVDDGTSFLLTAGPSSWPGEWGPGFRAGPPA |
| 4304 | sp|Q94BT0|SPSA1\_ARATH | MAGNDWVNSYLEAILDVGQGLDDARSSPSLLLRERGRFTPSRYFVEEVITGYDETDLHRSWVKAVATRSPQERNTRLENMCWRIWNLARQKKQHEEKEAQRLAKRRLEREKGRREATADMSEEFSEGEKGDIISDISTHGESTKPRLPRINSAESMELWASQQKGNKLYLVLISLHGLIRGENMELGRDSDTGGQVKYVVELARALGSMPGVYRVDLLTRQVSSPDVDYSYGEPTEMLTPRDSEDFSDEMGESSGAYIVRIPFGPKDKYIPKELLWPHIPEFVDGAMSHIMQMSNVLGEQVGVGKPIWPSAIHGHYADAGDATALLSGALNVPMLLTGHSLGRDKLEQLLRQGRLSKEEINSTYKIMRRIEGEELSLDVSEMVITSTRQEIDEQWRLYDGFDPILERKLRARIKRNVSCYGRFMPRMVKIPPGMEFNHIVPHGGDMEDTDGNEEHPTSPDPPIWAEIMRFFSNSRKPMILALARPDPKKNITTLVKAFGECRPLRELANLALIMGNRDGIDEMSSTSSSVLLSVLKLIDKYDLYGQVAYPKHHKQSDVPDIYRLAAKSKGVFINPAIIEPFGLTLIEAAAHGLPMVATKNGGPVDIHRVLDNGLLVDPHDQQSISEALLKLVADKHLWAKCRQNGLKNIHQFSWPEHCKTYLSRITSFKPRHPQWQSDDGGDNSEPESPSDSLRDIQDISLNLKFSFDGSGNDNYMNQEGSSMDRKSKIEAAVQNWSKGKDSRKMGSLERSEVNSGKFPAVRRRKFIVVIALDFDGEEDTLEATKRILDAVEKERAEGSVGFILSTSLTISEVQSFLVSGGLNPNDFDAFICNSGSDLHYTSLNNEDGPFVVDFYYHSHIEYRWGGEGLRKTLIRWASSLNEKKADNDEQIVTLAEHLSTDYCYTFTVKKPAAVPPVRELRKLLRIQALRCHVVYSQNGTRINVIPVLASRIQALRYLFVRWGIDMAKMAVFVGESGDTDYEGLLGGLHKSVVLKGVSCSACLHANRSYPLTDVISFESNNVVHASPDSDVRDALKKLELLKD |
| 4305 | sp|Q810B7|SLIK5\_MOUSE | MHVCCPPVTLEQDLHRKMHSWMLQTLAFAVTSLVLSCAETIDYYGEICDNACPCEEKDGILTVSCENRGIISLSEISPPRFPIYHLLLSGNLLSRLYPNEFVNYTGASILHLGSNVIQDIETGAFHGLRGLRRLHLNNNKLELLRDDTFLGLENLEYLQVDYNYISVIEPNAFGKLHMLQVLILNDNLLSGLPNNLFRFVPLTHLDLRGNRLKLLPYVGLLQHMDKVVELQLEENPWNCSCELISLKDWLDSISYSALVGDVVCETPFRLHGRDLDEVSKQELCPRKLISDYEMRPQTPLSTTGYLHTTPASVNSVATSSSAVYKPPLKPPKGTRQPNKPRVRPTSRQPSKDLGYSNYGPSIAYQTKSPVPLECPTACTCNLQISDLGLNVNCQERKIESIAELQPKPYNPKKMYLTENYITVVRRTDFLEATGLDLLHLGNNRISMIQDRAFGDLGNLRRLYLNGNRIERLSPELFYGLQSLQYLFLQYNLIREIQAGTFDPVPNLQLLFLNNNQLQAMPSGVFSGLTLLRLNLRGNSFTSLPVSGVLDQLTSLIQIDLHDNPWDCTCDVVGMKLWIEQLKVGVLVDEVICKAPKKFAETYMRSIKSELLCPDYSDVVVSTPTPSSIQVPSRTNAATPAVRLNSTGTPAGLGAGTGASSVPLSVLILSLLLVFIMSVFVAAGLFVLVMKRRKKNQSDHTSTNNSDVSSFNMQYSVYGGGGGGGGGHPHAHVHHRGPALPKVKTPAGHVYEYIPHPLGHMCKNPIYRSREGNSVEDYKDLHELKVTYSSNHHLQQQPPPPPQQPQQQPPPQMQMQPGEEERRESHHLRSPAYSVSTIEPREDLLSPVQDADRFYRGILEPDKHCSTTPAGSSLPEYPKFPCSPAAYTFSPNYDLRRPHQYLHPGAGESRLREPVLYSPPGAVFVEPNRNEYLELKAKLNVEPDYLEVLEKQTTFSQF |
| 4306 | sp|O59791|SRR\_SCHPO | MSDNLVLPTYDDVASASERIKKFANKTPVLTSSTVNKEFVAEVFFKCENFQKMGAFKFRGALNALSQLNEAQRKAGVLTFSSGNHAQAIALSAKILGIPAKIIMPLDAPEAKVAATKGYGGQVIMYDRYKDDREKMAKEISEREGLTIIPPYDHPHVLAGQGTAAKELFEEVGPLDALFVCLGGGGLLSGSALAARHFAPNCEVYGVEPEAGNDGQQSFRKGSIVHIDTPKTIADGAQTQHLGNYTFSIIKEKVDDILTVSDEELIDCLKFYAARMKIVVEPTGCLSFAAARAMKEKLKNKRIGIIISGGNVDIERYAHFLSQ |
| 4307 | sp|Q62383|SPT6H\_MOUSE | MSDFVESEAEESEEEYNHEGEVVPRVTKKFVEEEDDDEEEEEENLDDQDERGNLKDFINDDDDEEEGEEDEGSDSGDSEDDVGHKKRKRPSFDDRLEDDDFDLIEENLGVKVKRGQKYRRVKKMSDDDEDDEEEYGKEEHEKEAIAGEIFQDEEGEEGQEAVEAPMAPPDEEEEDDEESDIDDFIVDDDGQPLKKPKWRKKLPGYTDAALQEAQEIFGVDFDYDEFEKYNEYDEELEEDYEYEDDETEGEIRVRPKKTTKKRVSRRSIFEMYEPSELESSHLTDQDNEIRATDLPERFQLRSIPVKAAEDDELEEEADWIYRNAFATPTISLQDSCDYLDRGQPTSSFSRKGPSTVQKIKEALGFMRNQHFEVPFIAFYRKEYVEPELHINDLWRVWQWDEKWTQLRIRKENLTRLFEKMQAYQYEQISADPDKPLADGIRALDTTDMERLKDVQSMDELKDVYNHFLLYYGRDIPKMQNAAKASRKKLKRIKEDGDEEGEGEEAEDEEQRGPELKQASRRDMYTICQSAGLDGLAKKFGLTPEQFGENLRDSYQRHETEQFPAEPLELAKDYVCSQFPTPEAVLEGARYMVALQIAREPLVRQVLRQTFQERAKLNITPTKKGRKDVDEAHYAYSFKYLKNKPVKELRDDQFLKIGLAEDEGLLTIDISIDMKGVEGYGNDQTYFEEIKQFYYRDEFSHQVQEWNRQRTMAIERALQQFLYVQMAKELKNKLLAEARESVVKACSRKLYNWLRVAPYRPDQQVEEDDDFMDENQGKGIRVLGIAFSSARDHPVFCALVNGEGEVTDFLRLPHFTKRRTAWREEEREKKAQDIETLKKFLVNKKPHVVTIAGENRDAQMLTEDVKRIVHELDQGQQLSSIGVELVDNELAILYMNSKKSEAEFRDYPPVLRQAVSLARRIQDPLIEFAQVCSSDEDILCLKFHPLQEHVVKEELLNALYCEFINRVNEVGVDVNRAIAHPYSQALIQYVCGLGPRKGTHLLKILKQNNTRLESRTQLVTMCHMGPKVFMNCAGFLKIDTASLGDSTDSYIEVLDGSRVHPETYEWARKMAVDALEYDESAEDANPAGALEEILENPERLKDLDLDAFAEELERQGYGDKHITLYDIRAELSCRYKDLRTAYRSPNTEEIFNMLTKETPETFYIGKLIICNVTGIAHRRPQGESYDQAIRNDETGLWQCPFCQQDNFPELSEVWNHFDSGSCPGQAIGVKTRLDNGVTGFIPTKFLSDKVVKRPEERVKVGMTVHCRIMKIDIEKFSADLTCRTSDLMDRNNEWKLPKDTYYDFDAEAADHKQEEDMKRKQQRTTYIKRVIAHPSFHNINFKQAEKMMETMDQGDVIIRPSSKGENHLTVTWKVSAGIYQHVDVREEGKENAFSLGATLWINSEEFEDLDEIVARYVQPMASFARDLLNHKYYQDCSGGDRKKLEELLIKTKKEKPTFIPYFICACKELPGKFLLGYQPRGKPRIEYVTVTPEGFRYRGQIFPTVNGLFRWFKDHYQDPVPGITPSSSNRTRTPASINATPANINLADLTRAVNALPQNMTSQMFSAIAAVTGQGQNPNATPAQWASSQYGYGGSGGGSSAYHVFPTPAQQPVATPLMTPSYSYTTPSQPITTPQYHQLQASTTPQSTQAQPQPSSSSRQRQQQPKSNSHAAIDWGKMAEQWLQEKEAERRKQKQRLTPRPSPSPMIESTPMSIAGDATPLLDEMDR |
| 4308 | sp|A6NHR9|SMHD1\_HUMAN | MAAADGGGPGGASVGTEEDGGGVGHRTVYLFDRREKESELGDRPLQVGERSDYAGFRACVCQTLGISPEEKFVITTTSRKEITCDNFDETVKDGVTLYLLQSVNQLLLTATKERIDFLPHYDTLVKSGMYEYYASEGQNPLPFALAELIDNSLSATSRNIGVRRIQIKLLFDETQGKPAVAVIDNGRGMTSKQLNNWAVYRLSKFTRQGDFESDHSGYVRPVPVPRSLNSDISYFGVGGKQAVFFVGQSARMISKPADSQDVHELVLSKEDFEKKEKNKEAIYSGYIRNRKPSDSVHITNDDERFLHHLIIEEKEKDSFTAVVITGVQPEHIQYLKNYFHLWTRQLAHIYHYYIHGPKGNEIRTSKEVEPFNNIDIEISMFEKGKVPKIVNLREIQDDMQTLYVNTAADSFEFKAHVEGDGVVEGIIRYHPFLYDRETYPDDPCFPSKLKDEDDEDDCFILEKAARGKRPIFECFWNGRLIPYTSVEDFDWCTPPKKRGLAPIECYNRISGALFTNDKFQVSTNKLTFMDLELKLKDKNTLFTRILNGQEQRMKIDREFALWLKDCHEKYDKQIKFTLFKGVITRPDLPSKKQGPWATYAAIEWDGKIYKAGQLVKTIKTLPLFYGSIVRFFLYGDHDGEVYATGGEVQIAMEPQALYDEVRTVPIAKLDRTVAEKAVKKYVEDEMARLPDRLSVTWPEGDELLPNEVRPAGTPIGALRIEILNKKGEAMQKLPGTSHGGSKKLLVELKVILHSSSGNKEIISHISQHGGKWPYWFKKMENIQKLGNYTLKLQVVLNESNADTYAGRPLPSKAIKFSVKEGKPEKFSFGLLDLPFRVGVPFNIPLEFQDEFGHTSQLVTDIQPVLEASGLSLHYEEITKGPNCVIRGVTAKGPVNSCQGKNYNLKVTLPGLKEDSQILKIRLLPGHPRRLKVKPDSEILVIENGTAFPFQVEVLDESDNITAQPKLIVHCKFSGAPNLPVYVVDCSSSGTSILTGSAIQVQNIKKDQTLKARIEIPSCKDVAPVEKTIKLLPSSHVARLQIFSVEGQKAIQIKHQDEVNWIAGDIMHNLIFQMYDEGEREINITSALAEKIKVNWTPEINKEHLLQGLLPDVQVPTSVKDMRYCQVSFQDDHVSLESAFTVRPLPDEPKHLKCEMKGGKTVQMGQELQGEVVIIITDQYGNQIQAFSPSSLSSLSIAGVGLDSSNLKTTFQENTQSISVRGIKFIPGPPGNKDLCFTWREFSDFIRVQLISGPPAKLLLIDWPELKESIPVINGRDLQNPIIVQLCDQWDNPAPVQHVKISLTKASNLKLMPSNQQHKTDEKGRANLGVFSVFAPRGEHTLQVKAIYNKSIIEGPIIKLMILPDPEKPVRLNVKYDKDASFLAGGLFTDFMISVISEDDSIIKNINPARISMKMWKLSTSGNRPPANAETFSCNKIKDNDKEDGCFYFRDKVIPNKVGTYCIQFGFMMDKTNILNSEQVIVEVLPNQPVKLVPKIKPPTPAVSNVRSVASRTLVRDLHLSITDDYDNHTGIDLVGTIIATIKGSNEEDTDTPLFIGKVRTLEFPFVNGSAEIMSLVLAESSPGRDSTEYFIVFEPRLPLLSRTLEPYILPFMFYNDVKKQQQMAALTKEKDQLSQSIVMYKSLFEASQQLLNEMKCQVEEARLKEAQLRNELKIHNIDIPTTQQVPHIEALLKRKLSEQEELKKKPRRSCTLPNYTKGSGDVLGKIAHLAQIEDDRAAMVISWHLASDMDCVVTLTTDAARRIYDETQGRQQVLPLDSIYKKTLPDWKRSLPHFRNGKLYFKPIGDPVFARDLLTFPDNVEHCETVFGMLLGDTIILDNLDAANHYRKEVVKITHCPTLLTRDGDRIRSNGKFGGLQNKAPPMDKLRGMVFGAPVPKQCLILGEQIDLLQQYRSAVCKLDSVNKDLNSQLEYLRTPDMRKKKQELDEHEKNLKLIEEKLGMTPIRKCNDSLRHSPKVETTDCPVPPKRMRREATRQNRIITKTDV |
| 4309 | sp|Q9VDD3|SNMP1\_DROME | MQVPRVKLLMGSGAMFVFAIIYGWVIFPKILKFMISKQVTLKPGSDVRELWSNTPFPLHFYIYVFNVTNPDEVSEGAKPRLQEVGPFVFDEWKDKYDLEDDVVEDTVSFTMRNTFIFNPKESLPLTGEEEIILPHPIMLPGGISVQREKAAMMELVSKGLSIVFPDAKAFLKAKFMDLFFRGINVDCSSEEFSAKALCTVFYTGEIKQAKQVNQTHFLFSFMGQANHSDSGRFTVCRGVKNNKKLGKVVKFADEPEQDIWPDGECNTFVGTDSTVFAPGLKKEDGLWAFTPDLCRSLGAYYQHKSSYHGMPSMRYTLDLGDIRADEKLHCFCEDPEDLDTCPPKGTMNLAACVGGPLMASMPHFYLGDPKLVADVDGLNPNEKDHAVYIDFELMSGTPFQAAKRLQFNLDMEPVEGIEPMKNLPKLILPMFWVEEGVQLNKTYTNLVKYTLFLGLKINSVLRWSLITFSLVGLMFSAYLFYHKSDSLDINSILKDNNKVDDVASTKEPLPSANPKQSSTVHPVQLPNTLIPGTNPATNPATHHKMEHRERY |
| 4310 | sp|Q969G3|SMCE1\_HUMAN | MSKRPSYAPPPTPAPATQMPSTPGFVGYNPYSHLAYNNYRLGGNPGTNSRVTASSGITIPKPPKPPDKPLMPYMRYSRKVWDQVKASNPDLKLWEIGKIIGGMWRDLTDEEKQEYLNEYEAEKIEYNESMKAYHNSPAYLAYINAKSRAEAALEEESRQRQSRMEKGEPYMSIQPAEDPDDYDDGFSMKHTATARFQRNHRLISEILSESVVPDVRSVVTTARMQVLKRQVQSLMVHQRKLEAELLQIEERHQEKKRKFLESTDSFNNELKRLCGLKVEVDMEKIAAEIAQAEEQARKRQEEREKEAAEQAERSQSSIVPEEEQAANKGEEKKDDENIPMETEETHLEETTESQQNGEEGTSTPEDKESGQEGVDSMAEEGTSDSNTGSESNSATVEEPPTDPIPEDEKKE |
| 4311 | sp|Q9QXV9|SPY1\_MOUSE | MDSPSQHGSHTSLVVIQPPAVEGRQRLDYDRDTQPATILSLDQIKAIRGSNEYTEGPSVARRPAPRTAPRPEKQERTHEIIPANVNSSYEHRPASHPGNARGSVLSRSTSTGSAASSGSSSSVSSEQGLLGRSPPTRPIPGHRSDRVIRTQPKQLLVEDLKASLKEDPTQHKFICEQCGKCKCGECTAPRALPSCLACDRQCLCSAESMVEYGTCMCLVKGIFYHCSNDDDGGSYSDNPCSCSQSHCCSRYLCMGALSLCLPCLLCYPPAKGCLKLCRGCYDWTHRPGCRCRNSNTVYCKLESCPSRAQGKLS |
| 4312 | sp|P40150|SSB2\_YEAST | MAEGVFQGAIGIDLGTTYSCVATYESSVEIIANEQGNRVTPSFVAFTPQERLIGDAAKNQAALNPRNTVFDAKRLIGRRFDDESVQKDMKTWPFKVIDVDGNPVIEVQYLEETKTFSPQEISAMVLTKMKEIAEAKIGKKVEKAVITVPAYFNDAQRQATKDAGAISGLNVLRIINEPTAAAIAYGLGAGKSEKERHVLIFDLGGGTFDVSLLHIAGGVYTVKSTSGNTHLGGQDFDTNLLEHFKAEFKKKTGLDISDDARALRRLRTAAERAKRTLSSVTQTTVEVDSLFDGEDFESSLTRARFEDLNAALFKSTLEPVEQVLKDAKISKSQIDEVVLVGGSTRIPKVQKLLSDFFDGKQLEKSINPDEAVAYGAAVQGAILTGQSTSDETKDLLLLDVAPLSLGVGMQGDIFGIVVPRNTTVPTIKRRTFTTVSDNQTTVQFPVYQGERVNCKENTLLGEFDLKNIPMMPAGEPVLEAIFEVDANGILKVTAVEKSTGKSSNITISNAVGRLSSEEIEKMVNQAEEFKAADEAFAKKHEARQRLESYVASIEQTVTDPVLSSKLKRGSKSKIEAALSDALAALQIEDPSADELRKAEVGLKRVVTKAMSSR |
| 4313 | sp|Q9Z0H3|SNF5\_MOUSE | MMMMALSKTFGQKPVKFQLEDDGEFYMIGSEVGNYLRMFRGSLYKRYPSLWRRLATVEERKKIVASSHGKKTKPNTKDHGYTTLATSVTLLKASEVEEILDGNDEKYKAVSISTEPPTYLREQKAKRNSQWVPTLPNSSHHLDAVPCSTTINRNRMGRDKKRTFPLCFDDHDPAVIHENASQPEVLVPIRLDMEIDGQKLRDAFTWNMNEKLMTPEMFSEILCDDLDLNPLTFVPAIASAIRQQIESYPTDSILEDQSDQRVIIKLNIHVGNISLVDQFEWDMSEKENSPEKFALKLCSELGLGGEFVTTIAYSIRGQLSWHQKTYAFSENPLPTVEIAIRNTGDADQWCPLLETLTDAEMEKKIRDQDRNTRRMRRLANTAPAW |
| 4314 | sp|P42224|STAT1\_HUMAN | MSQWYELQQLDSKFLEQVHQLYDDSFPMEIRQYLAQWLEKQDWEHAANDVSFATIRFHDLLSQLDDQYSRFSLENNFLLQHNIRKSKRNLQDNFQEDPIQMSMIIYSCLKEERKILENAQRFNQAQSGNIQSTVMLDKQKELDSKVRNVKDKVMCIEHEIKSLEDLQDEYDFKCKTLQNREHETNGVAKSDQKQEQLLLKKMYLMLDNKRKEVVHKIIELLNVTELTQNALINDELVEWKRRQQSACIGGPPNACLDQLQNWFTIVAESLQQVRQQLKKLEELEQKYTYEHDPITKNKQVLWDRTFSLFQQLIQSSFVVERQPCMPTHPQRPLVLKTGVQFTVKLRLLVKLQELNYNLKVKVLFDKDVNERNTVKGFRKFNILGTHTKVMNMEESTNGSLAAEFRHLQLKEQKNAGTRTNEGPLIVTEELHSLSFETQLCQPGLVIDLETTSLPVVVISNVSQLPSGWASILWYNMLVAEPRNLSFFLTPPCARWAQLSEVLSWQFSSVTKRGLNVDQLNMLGEKLLGPNASPDGLIPWTRFCKENINDKNFPFWLWIESILELIKKHLLPLWNDGCIMGFISKERERALLKDQQPGTFLLRFSESSREGAITFTWVERSQNGGEPDFHAVEPYTKKELSAVTFPDIIRNYKVMAAENIPENPLKYLYPNIDKDHAFGKYYSRPKEAPEPMELDGPKGTGYIKTELISVSEVHPSRLQTTDNLLPMSPEEFDEVSRIVGSVEFDSMMNTV |
| 4315 | sp|Q96A49|SYAP1\_HUMAN | MFRGLSSWLGLQQPVAGGGQPNGDAPPEQPSETVAESAEEELQQAGDQELLHQAKDFGNYLFNFASAATKKITESVAETAQTIKKSVEEGKIDGIIDKTIIGDFQKEQKKFVEEQHTKKSEAAVPPWVDTNDEETIQQQILALSADKRNFLRDPPAGVQFNFDFDQMYPVALVMLQEDELLSKMRFALVPKLVKEEVFWRNYFYRVSLIKQSAQLTALAAQQQAAGKEEKSNGREQDLPLAEAVRPKTPPVVIKSQLKTQEDEEEISTSPGVSEFVSDAFDACNLNQEDLRKEMEQLVLDKKQEETAVLEEDSADWEKELQQELQEYEVVTESEKRDENWDKEIEKMLQEEN |
| 4316 | sp|Q9D5V6|SYAP1\_MOUSE | MFGGLSSWLGLKPPEGAAAEGEEPPSRDGDKLSAGAAPSEESPERPVEPTEEQQQQPPTEDPQFLHQAKGLGNYLYNFASAATKKITESVTETAQTIKKSVEEGKIDDILDKTILGDFQKEQKKFVEEQNTKKSEAAVPPWVESHDEETIQQQILALSADKRNFLRDPPAGVQFNFDFDQMYPVALVMLQEDELLSKMRFALVPKLVKEEVFWRNYFYRISLIKQSAQLTALAAQQQASGKEEKSSNRDDNLPLTEAVRPKTPPVVIKSQLKSQEDEEEISTSPGVSEFVSDAFDTCSLNQEDLRKEMEQLVLDKKQEEATALEEDSTDWEKELQQELQEYEVVAESEKRDENWDKEIEKMLQES |
| 4317 | sp|Q9D0I4|STX17\_MOUSE | MSEDEEKVKLRRLEPAIQKFTKIVIPTDLERLRKHQINIEKYQRCRIWDKLHEEHINAGRTVQQLRSNIREMEKLCLKVHKDDLVLLKRMIDPVKEAAATATAEFLQLHLESVEELKKQVNDEELLQPSLTRSTTVDGVLHTGEAEAASQSLTQIYALPEIPQDQNAAESWETLEADLIELSHLVTDMSLLVSSQQEKIDSIADHVNSAAVNVEEGTKNLQKAAKYKLAALPVAGALIGGVVGGPIGLLAGFKVAGIAAALGGGVLGFTGGKLIQRRKQKMMEKLTSSCPDLPSQSDKKRS |
| 4318 | sp|P42519|STAR\_DROME | MSQQVFSAHPALAVDQLQQAEQEEHNTSSNHHQQRSATQSRRHTKAAPKKFTLSRSCAGGGSGTLSGVHQQVKPSPSNPAISPECRKTLPVRTNYAAVDDDDDIECEDVDEVNFGQQEKERERETRQPTKDCGTDETDHVQQRHKNTMTTSATAASRHHHQDGGGGDQSDLSSVISSPSVSTVSSPLSTPTRLPQALQQQLHCCQKSTGMESRARTSPQQIQHPHRQHHQQQHHHHHHHHHLTAAGCTGGGGGGGGSGGSGSCKAKKLDPRLNPSPYRQLLPIALCLLSFAAVFATLIVYMDTTEIRHQQFRLNMSRDYELNGVAQDDPALIDFLRQIHMGKYLGKASPKVAAAASVGVGPPPNSPRLAAAGSTFGSGNSSGSGADQLAHYVADLVGGKMNGAVIQSLSGPLAHLITAPWLSEQLNWMGVLVEPEPRWYFTLRKQNAQRARMQVVHACVSPNTYPKEITIHNEDVRINSLHDEETSWFNSRVKCFPLYTIMLACERTEYDLLSLGVQGHELEILQTLPFDKVKIDVISIHLLEDHEDVADYVLDITRFLAGKSYKLQRKIGRNYFYQRLNASASRTRKKDILLLKTP |
| 4319 | sp|Q9Y5X1|SNX9\_HUMAN | MATKARVMYDFAAEPGNNELTVNEGEIITITNPDVGGGWLEGRNIKGERGLVPTDYVEILPSDGKDQFSCGNSVADQAFLDSLSASTAQASSSAASNNHQVGSGNDPWSAWSASKSGNWESSEGWGAQPEGAGAQRNTNTPNNWDTAFGHPQAYQGPATGDDDDWDEDWDGPKSSSYFKDSESADAGGAQRGNSRASSSSMKIPLNKFPGFAKPGTEQYLLAKQLAKPKEKIPIIVGDYGPMWVYPTSTFDCVVADPRKGSKMYGLKSYIEYQLTPTNTNRSVNHRYKHFDWLYERLLVKFGSAIPIPSLPDKQVTGRFEEEFIKMRMERLQAWMTRMCRHPVISESEVFQQFLNFRDEKEWKTGKRKAERDELAGVMIFSTMEPEAPDLDLVEIEQKCEAVGKFTKAMDDGVKELLTVGQEHWKRCTGPLPKEYQKIGKALQSLATVFSSSGYQGETDLNDAITEAGKTYEEIASLVAEQPKKDLHFLMECNHEYKGFLGCFPDIIGTHKGAIEKVKESDKLVATSKITLQDKQNMVKRVSIMSYALQAEMNHFHSNRIYDYNSVIRLYLEQQVQFYETIAEKLRQALSRFPVM |
| 4320 | sp|P07825|SYPH\_RAT | MDVVNQLVAGGQFRVVKEPLGFVKVLQWVFAIFAFATCGSYTGELRLSVECANKTESALNIEVEFEYPFRLHQVYFDAPSCVKGGTTKIFLVGDYSSSAEFFVTVAVFAFLYSMGALATYIFLQNKYRENNKGPMMDFLATAVFAFMWLVSSSAWAKGLSDVKMATDPENIIKEMPMCRQTGNTCKELRDPVTSGLNTSVVFGFLNLVLWVGNLWFVFKETGWAAPFMRAPPGAPEKQPAPGDAYGDAGYGQGPGGYGPQDSYGPQGGYQPDYGQPASGGGGYGPQGDYGQQGYGQQGAPTSFSNQM |
| 4321 | sp|A1Z9G2|SYF1\_DROME | MVTKTIKSLNLEINFEVEDVPYEEEILRNAYSVKHWLRYIDHKAKAPNNGVNMVYERALKELPGSYKIWHNYLRTRRKQVRGKIPTDPMYEEVNSAFERALVFMHKMPRIWMDYGAFMTSQCKITRTRHVFDRALRALPITQHGRIWPLYLQFVRRFEMPETALRVYRRYLKLFPEDTEEYVDYLQEADRLDEAAQQLAHIVDNEHFVSKHGKSNHQLWNELCDLISKNPHKVHSLNVDAIIRGGLRRYTDQLGHLWNSLADYYVRSGLFDRARDIYEEAIQTVTTVRDFTQVFDEYAQFEELSLNRRMEQVAANEAATEEDDIDVELRLSRFEYLMERRLLLLNSVLLRQNPHNVHEWHKRVTLYEDKPAEIISTYTEAVQTVQPKQAVGKLHTLWVEFAKFYEANGQVEDARVVFERGTEVEYVKVEDLAAVWCEWAEMELRQQQFEAALKLMQRATAMPKRKIAYYDDTETVQARLHRSLKVWSMYADLEESFGTFKTCKAVYERIIDLKICTPQIIINYGMFLEEHNYFEEAYRAYEKGISLFKWPNVYDIWNSYLTKFLERYGGTKLERARDLFEQCLDQCPPEHAKYFYLLYAKLEEEHGLARHAMSVYDRATSAVKEDEMFDMYNIFIKKAAEIYGLPRTREIYEKAIESLPEQNMRHMCVKFAELETKLGEVDRARAIYAHCSQVCDPRITADFWQTWKEFEVRHGNEDTMREMLRIKRSVQATYNTQVNMMAAQFLSTNNGAAADAGAGAGPDAMRLLEEKARQAAAESKQKPIEKAASNIMFVRGETQGGAKDKKDTVVNPDEIDIGDSDEDDEEEDDDEENEMTNENQASAAVTKTDEEGLVMKKLRFEQKAIPAKVFGSLKPSNQGDSDGE |
| 4322 | sp|P41895|T2FA\_YEAST | MSRRNPPGSRNGGGPTNASPFIKRDRMRRNFLRMRMGQNGSNSSSPGVPNGDNSRGSLVKKDDPEYAEEREKMLLQIGVEADAGRSNVKVKDEDPNEYNEFPLRAIPKEDLENMRTHLLKFQSKKKINPVTDFHLPVRLHRKDTRNLQFQLTRAEIVQRQKEISEYKKKAEQERSTPNSGGMNKSGTVSLNNTVKDGSQTPTVDSVTKDNTANGVNSSIPTVTGSSVPPASPTTVSAVESNGLSNGSTSAANGLDGNASTANLANGRPLVTKLEDAGPAEDPTKVGMVKYDGKEVTNEPEFEEGTMDPLADVAPDGGGRAKRGNLRRKTRQLKVLDENAKKLRFEEFYPWVMEDFDGYNTWVGSYEAGNSDSYVLLSVEDDGSFTMIPADKVYKFTARNKYATLTIDEAEKRMDKKSGEVPRWLMKHLDNIGTTTTRYDRTRRKLKAVADQQAMDEDDRDDNSEVELDYDEEFADDEEAPIIDGNEQENKESEQRIKKEMLQANAMGLRDEEAPSENEEDELFGEKKIDEDGERIKKALQKTELAALYSSDENEINPYLSESDIENKENESPVKKEEDSDTLSKSKRSSPKKQQKKATNAHVHKEPTLRVKSIKNCVIILKGDKKILKSFPEGEWNPQTTKAVDSSNNASNTVPSPIKQEEGLNSTVAEREETPAPTITEKDIIEAIGDGKVNIKEFGKFIRRKYPGAENKKLMFAIVKKLCRKVGNDHMELKKE |
| 4323 | sp|Q8K3F7|TDH\_MOUSE | MLFLGMLKQVVNGTAQSKASSCRKLVLPLKFLGTSQHRIPADANFHSTSISEAEPPRVLITGGLGQLGVGLANLLRKRFGKDNVILSDIRKPPAHVFHSGPFVYANILDYKSLREIVVNHRISWLFHYSALLSAVGEANVSLARDVNITGLHNVLDVAAEYNVRLFVPSTIGAFGPTSPRNPAPDLCIQRPRTIYGVSKVHTELMGEYYYYRYGLDFRCLRYPGIISADSQPGGGTTDYAVQIFHAAAKNGTFECNLEAGTRLPMMYISDCLRATLEVMEAPAERLSMRTYNISAMSFTPEELAQALRKHAPDFQITYCVDPLRQAIAESWPMILDDSNARKDWGWKHDFDLPELVATMLNFHGVSTRVAQVN |
| 4324 | sp|B6A8C7|TARM1\_HUMAN | MIPKLLSLLCFRLCVGQGDTRGDGSLPKPSLSAWPSSVVPANSNVTLRCWTPARGVSFVLRKGGIILESPKPLDSTEGAAEFHLNNLKVRNAGEYTCEYYRKASPHILSQRSDVLLLLVTGHLSKPFLRTYQRGTVTAGGRVTLQCQKRDQLFVPIMFALLKAGTPSPIQLQSPAGKEIDFSLVDVTAGDAGNYSCMYYQTKSPFWASEPSDQLEILVTVPPGTTSSNYSLGNFVRLGLAAVIVVIMGAFLVEAWYSRNVSPGESEAFKPE |
| 4325 | sp|P19332|TAU\_RAT | MAEPRQEFDTMEDQAGDYTMLQDQEGDMDHGLKESPPQPPADDGSEEPGSETSDAKSTPTAEDVTAPLVEERAPDKQATAQSHTEIPEGTTAEEAGIGDTPNMEDQAAGHVTQEPQKVEIFSQSLLVEPGRREGQAPDSGISDWTHQQVPSMSGAPLPPQGLREATHQPLGTRPEDVERSHPASELLWQESPQKEAWGKDRLGSEEEVDEDITMDESSQESPPSQASLAPGTATPQARSVSASGVSGETTSIPGFPAEGSIPLPADFFSKVSAETQASPPEGPGTGPSEEGHEAAPEFTFHVEIKASAPKEQDLEGATVVGAPAEEQKARGPSVGKGTKEASLLEPTDKQPAAGLPGRPVSRVPQLKARVAGVSKDRTGNDEKKAKTSTPSCAKTPSNRPCLSPTRPTPGSSDPLIKPSSPAVCPEPATSPKYVSSVTPRNGSPGTKQMKLKGADGKTGAKIATPRGAATPGQKGTSNATRIPAKTTPSPKTPPGSGEPPKSGERSGYSSPGSPGTPGSRSRTPSLPTPPTREPKKVAVVRTPPKSPSASKSRLQTAPVPMPDLKNVRSKIGSTENLKHQPGGGKVQIINKKLDLSNVQSKCGSKDNIKHVPGGGSVHIVYKPVDLSKVTSKCGSLGNIHHKPGGGQVEVKSEKLDFKDRVQSKIGSLDNITHVPGGGNKKIETHKLTFRENAKAKTDHGAEIVYKSPVVSGDTSPRHLSNVSSTGSIDMVDSPQLATLADEVSASLAKQGL |
| 4326 | sp|Q9LQF0|TCP23\_ARATH | MESHNNNQSNNNTTGSAHLVPSMGPISGSVSLTTTAPNSTTTTVTAAKTPAKRPSKDRHIKVDGRGRRIRMPAICAARVFQLTRELQHKSDGETIEWLLQQAEPAIIAATGTGTIPANISTLNISLRSSGSTLSAPLSKSFHMGRAAQNAAVFGFQQQLYHPHHITTDSSSSSLPKTFREEDLFKDPNFLDQEPGSRSPKPGSEAPDQDPGSTRSRTQNMIPPMWALAPTPASTNGGSAFWMLPVGGGGGPANVQDPSQHMWAFNPGHYPGRIGSVQLGSMLVGGQQLGLGVAENNNLGLFSGGGGDGGRVGLGMSLEQKPQHQVSDHATRDQNPTIDGSP |
| 4327 | sp|P42632|TDCE\_ECOLI | MKVDIDTSDKLYADAWLGFKGTDWKNEINVRDFIQHNYTPYEGDESFLAEATPATTELWEKVMEGIRIENATHAPVDFDTNIATTITAHDAGYINQPLEKIVGLQTDAPLKRALHPFGGINMIKSSFHAYGREMDSEFEYLFTDLRKTHNQGVFDVYSPDMLRCRKSGVLTGLPDGYGRGRIIGDYRRVALYGISYLVRERELQFADLQSRLEKGEDLEATIRLREELAEHRHALLQIQEMAAKYGFDISRPAQNAQEAVQWLYFAYLAAVKSQNGGAMSLGRTASFLDIYIERDFKAGVLNEQQAQELIDHFIMKIRMVRFLRTPEFDSLFSGDPIWATEVIGGMGLDGRTLVTKNSFRYLHTLHTMGPAPEPNLTILWSEELPIAFKKYAAQVSIVTSSLQYENDDLMRTDFNSDDYAIACCVSPMVIGKQMQFFGARANLAKTLLYAINGGVDEKLKIQVGPKTAPLMDDVLDYDKVMDSLDHFMDWLAVQYISALNIIHYMHDKYSYEASLMALHDRDVYRTMACGIAGLSVATDSLSAIKYARVKPIRDENGLAVDFEIDGEYPQYGNNDERVDSIACDLVERFMKKIKALPTYRNAVPTQSILTITSNVVYGQKTGNTPDGRRAGTPFAPGANPMHGRDRKGAVASLTSVAKLPFTYAKDGISYTFSIVPAALGKEDPVRKTNLVGLLDGYFHHEADVEGGQHLNVNVMNREMLLDAIEHPEKYPNLTIRVSGYAVRFNALTREQQQDVISRTFTQAL |
| 4328 | sp|P97610|SYT12\_RAT | MAVDVTEYHLSVIKSPPGWEVGVYAAGALALLGIAAVSLWKLWTSGSFPSPSPFPNYDYRYLQQKYGEAYVEAKLKRVPPWNAQRTTTRGPPSRKGSLSIEDTFESISELGPLELMGRELDLAPYGTLRKSQSADSLNSISSVSNTFGQDFTLGQVEVSMDYDGASHTLHVAVLQGKDLLEREEATFESCFMRVSLLPDEQIVGISRIQRNAYSIFFDEKFSVPLDPTALEEKSLRFSVFGIDEDERNVSTGVVELKLSVLDLPLQPFSGWLYLQDQNKAADAVGEILLSLSYLPTAERLTVVVVKAKNLIWTNDKTTADPFVKVYLLQDGRKMSKKKTAVKRDDPNPVFNEAMIFSVPAIVLQDLSLRVTVAESSSDGRGDNVGHVIIGPGASGMGTTHWNQMLATLRRPVSMWHPVRRN |
| 4329 | sp|Q9FII5|TDR\_ARATH | MKKKNISPSLVLHPLLLLLLPFFAFNSLALKFSPQLLSLLSLKTSLSGPPSAFQDWKVPVNGQNDAVWCSWSGVVCDNVTAQVISLDLSHRNLSGRIPIQIRYLSSLLYLNLSGNSLEGSFPTSIFDLTKLTTLDISRNSFDSSFPPGISKLKFLKVFNAFSNNFEGLLPSDVSRLRFLEELNFGGSYFEGEIPAAYGGLQRLKFIHLAGNVLGGKLPPRLGLLTELQHMEIGYNHFNGNIPSEFALLSNLKYFDVSNCSLSGSLPQELGNLSNLETLFLFQNGFTGEIPESYSNLKSLKLLDFSSNQLSGSIPSGFSTLKNLTWLSLISNNLSGEVPEGIGELPELTTLFLWNNNFTGVLPHKLGSNGKLETMDVSNNSFTGTIPSSLCHGNKLYKLILFSNMFEGELPKSLTRCESLWRFRSQNNRLNGTIPIGFGSLRNLTFVDLSNNRFTDQIPADFATAPVLQYLNLSTNFFHRKLPENIWKAPNLQIFSASFSNLIGEIPNYVGCKSFYRIELQGNSLNGTIPWDIGHCEKLLCLNLSQNHLNGIIPWEISTLPSIADVDLSHNLLTGTIPSDFGSSKTITTFNVSYNQLIGPIPSGSFAHLNPSFFSSNEGLCGDLVGKPCNSDRFNAGNADIDGHHKEERPKKTAGAIVWILAAAIGVGFFVLVAATRCFQKSYGNRVDGGGRNGGDIGPWKLTAFQRLNFTADDVVECLSKTDNILGMGSTGTVYKAEMPNGEIIAVKKLWGKNKENGKIRRRKSGVLAEVDVLGNVRHRNIVRLLGCCTNRDCTMLLYEYMPNGSLDDLLHGGDKTMTAAAEWTALYQIAIGVAQGICYLHHDCDPVIVHRDLKPSNILLDADFEARVADFGVAKLIQTDESMSVVAGSYGYIAPEYAYTLQVDKKSDIYSYGVILLEIITGKRSVEPEFGEGNSIVDWVRSKLKTKEDVEEVLDKSMGRSCSLIREEMKQMLRIALLCTSRSPTDRPPMRDVLLILQEAKPKRKTVGDNVIVVGDVNDVNFEDVCSVDVGHDVKCQRIGV |
| 4330 | sp|P54308|TERL\_BPSPP | MKKVRLSEKFTPHFLEVWRTVKAAQHLKYVLKGGRGSAKSTHIAMWIILLMMMMPITFLVIRRVYNTVEQSVFEQLKEAIDMLEVGHLWKVSKSPLRLTYIPRGNSIIFRGGDDVQKIKSIKASKFPVAGMWIEELAEFKTEEEVSVIEKSVLRAELPPGCRYIFFYSYNPPKRKQSWVNKVFNSSFLPANTFVDHSTYLQNPFLSKAFIEEAEEVKRRNELKYRHEYLGEALGSGVVPFENLQIEEGIITDAEVARFDNIRQGLDFGYGPDPLAFVRWHYDKRKNRIYAIDELVDHKVSLKRTADFVRKNKYESARIIADSSEPRSIDALKLEHGINRIEGAKKGPDSVEHGERWLDELDAIVIDPLRTPNIAREFENIDYQTDKNGDPIPRLEDKDNHTIDATRYAFERDMKKGGVSLWG |
| 4331 | sp|P48775|T23O\_HUMAN | MSGCPFLGNNFGYTFKKLPVEGSEEDKSQTGVNRASKGGLIYGNYLHLEKVLNAQELQSETKGNKIHDEHLFIITHQAYELWFKQILWELDSVREIFQNGHVRDERNMLKVVSRMHRVSVILKLLVQQFSILETMTALDFNDFREYLSPASGFQSLQFRLLENKIGVLQNMRVPYNRRHYRDNFKGEENELLLKSEQEKTLLELVEAWLERTPGLEPHGFNFWGKLEKNITRGLEEEFIRIQAKEESEEKEEQVAEFQKQKEVLLSLFDEKRHEHLLSKGERRLSYRALQGALMIYFYREEPRFQVPFQLLTSLMDIDSLMTKWRYNHVCMVHRMLGSKAGTGGSSGYHYLRSTVSDRYKVFVDLFNLSTYLIPRHWIPKMNPTIHKFLYTAEYCDSSYFSSDESD |
| 4332 | sp|Q5C8T6|TRIM5\_GORGO | MASGILVNVKEEVTCPICLELLTQPLSLDCGHSFCQACLTANHEKSMLDKGESSCPVCRISYQPENIRPNRHVANIVEKLREVKLSPEGQKVDHCARHGEKLLLFCQEDGKVICWLCERSQEHRGHHTFLTEEVAQECQVKLQAALEMLRQKQQEAEELEADIREEKASWKTQIQYDKTNVLADFEQLRDILDWEESNELQNLEKEEEDILKRLTKSETEMVQQTQSVRELISDLEHRLQGSVMELLQGVDGVIKRMENVTLKKPETFPKNRRRVFRAPDLKGMLEVFRELTDVRRYWVDVTVAPNNISCAVISEDMRQVSSPKPQIIYGAQGTRYQTFMNFNYCTGILGSQSITSGKHYWEVDVSKKSAWILGVCAGFQPDATCNIEKNENYQPKYGYWVIGLEEGVKCSAFQDGSFHTPSAPFIVPLSVIICPDRVGVFLDYEACTVSFFNITNHGFLIYKFSHCSFSQPVFPYLNPRKCRVPMTLCSPSS |
| 4333 | sp|P9WG43|TPIS\_MYCTU | MSRKPLIAGNWKMNLNHYEAIALVQKIAFSLPDKYYDRVDVAVIPPFTDLRSVQTLVDGDKLRLTYGAQDLSPHDSGAYTGDVSGAFLAKLGCSYVVVGHSERRTYHNEDDALVAAKAATALKHGLTPIVCIGEHLDVREAGNHVAHNIEQLRGSLAGLLAEQIGSVVIAYEPVWAIGTGRVASAADAQEVCAAIRKELASLASPRIADTVRVLYGGSVNAKNVGDIVAQDDVDGGLVGGASLDGEHFATLAAIAAGGPLP |
| 4334 | sp|O14214|TRM10\_SCHPO | MENKDALDIGKDDTNTSEADVSKNETQEQPVLSKSALKRLKRQQEWDAGREKRAEMRREKKRLRKEERKRKIEAGEVVKSQKKRIRLGKVVPSSIRIVLDCAFDDLMNDKEINSLCQQVTRCHSANRTALHPVELFATNFGGRLKTRQDFVLKGQQNNWKRYNPTTKSYLEEFESQKEKLVYLSADSDNTITELDEDKIYIIGAIVDKNRYKNLCQNKASEQGIKTAKLPIDEYIKITDRKILTVNQVFEILSLWLEYRDWEKAFMEVIPKRKGILLKSDESFDVSEDTRSQSNQSDSELEKEN |
| 4335 | sp|Q9FJW5|TRB2\_ARATH | MGAPKQKWTPEEEAALKAGVLKHGTGKWRTILSDTEFSLILKSRSNVDLKDKWRNISVTALWGSRKKAKLALKRTPPGTKQDDNNTALTIVALTNDDERAKPTSPGGSGGGSPRTCASKRSITSLDKIIFEAITNLRELRGSDRTSIFLYIEENFKTPPNMKRHVAVRLKHLSSNGTLVKIKHKYRFSSNFIPAGARQKAPQLFLEGNNKKDPTKPEENGANSLTKFRVDGELYMIKGMTAQEAAEAAARAVAEAEFAITEAEQAAKEAERAEAEAEAAQIFAKAAMKALKFRIRNHPW |
| 4336 | sp|Q8BLA8|TRPA1\_MOUSE | MKRGLRRILLPEERKEVQGVVYRGVGEDMDCSKESFKVDIEGDMCRLEDFIKNRRKLSKYEDENLCPLHHAAAEGQVELMELIINGSSCEVLNIMDGYGNTPLHCAAEKNQVESVKFLLSQGANPNLRNRNMMSPLHIAVHGMYNEVIKVLTEHKATNINLEGENGNTALMSTCAKDNSEALQILLEKGAKLCKSNKWGDYPVHQAAFSGAKKCMELILAYGEKNGYSRETHINFVNHKKASPLHLAVQSGDLDMIKMCLDNGAHIDMMENAKCMALHFAATQGATDIVKLMISSYTGSSDIVNAVDGNQETLLHRASLFDHHDLAEYLISVGADINSTDSEGRSPLILATASASWNIVNLLLCKGAKVDIKDHLGRNFLHLTVQQPYGLRNLRPEFMQMQHIKELVMDEDNDGCTPLHYACRQGVPVSVNNLLGFNVSIHSKSKDKKSPLHFAASYGRINTCQRLLQDISDTRLLNEGDLHGMTPLHLAAKNGHDKVVQLLLKKGALFLSDHNGWTALHHASMGGYTQTMKVILDTNLKCTDRLDEEGNTALHFAAREGHAKAVAMLLSYNADILLNKKQASFLHIALHNKRKEVVLTTIRNKRWDECLQVFTHNSPSNRCPIMEMVEYLPECMKVLLDFCMIPSTEDKSCQDYHIEYNFKYLQCPLSMTKKVAPTQDVVYEPLTILNVMVQHNRIELLNHPVCREYLLMKWCAYGFRAHMMNLGSYCLGLIPMTLLVVKIQPGMAFNSTGIINGTSSTHEERIDTLNSFPIKICMILVFLSSIFGYCKEVIQIFQQKRNYFLDYNNALEWVIYTTSIIFVLPLFLNIPAYMQWQCGAIAIFFYWMNFLLYLQRFENCGIFIVMLEVIFKTLLRSTGVFIFLLLAFGLSFYVLLNFQDAFSTPLLSLIQTFSMMLGDINYRDAFLEPLFRNELAYPVLTFGQLIAFTMFVPIVLMNLLIGLAVGDIAEVQKHASLKRIAMQVELHTNLEKKLPLWYLRKVDQRSTIVYPNRPRHGRMLRFFHYFLNMQETRQEVPNIDTCLEMEILKQKYRLKDLTSLLEKQHELIKLIIQKMEIISETEDEDNHCSFQDRFKKERLEQMHSKWNFVLNAVKTKTHCSISHPDF |
| 4337 | sp|Q9P0U1|TOM7\_HUMAN | MVKLSKEAKQRLQQLFKGSQFAIRWGFIPLVIYLGFKRGADPGMPEPTVLSLLWG |
| 4338 | sp|O77277|TORS\_DROME | MMSFPRMLSLCLSVLVILPLPLQSVDPLTIGAVGAVALGAYFKEHTYCRFAECCDDRNIPARIDELERSLERTLIGQHIVRQHIVPALKAHIASGNKSRKPLVISFHGQPGTGKNFVAEQIADAMYLKGSRSNYVTKYLGQADFPKESEVSNYRVKINNAVRDTLRSCPRSLFIFDEVDKMPSGVFDQLTSLVDYNAFVDGTDNTKAIFIFLSNTAGSHIASHLGSVMKNGRLREDTRLSDFEPLLRKAAYNMDGGMKKTTMIESHVIDHFIPFLPMEKAHVIKCLEAELLRWRRDPKQANNQKIIEDIINSSISYDRTHSLFAISGCKTLEKKVAMAIY |
| 4339 | sp|Q68G38|TOR1A\_RAT | MKLGRATLALLLLVPCVVRAVEPISLGLALAGVLTGYISYPRLYCLFAECCGQKRSLSREALQKDLDNKLFGQHLAKRVILNAVSGFLSNPKPKKPLTLSLHGWTGTGKNFASKIIAENIYEGGLNSDYVHLFVATLHFPHASNITLYKDQLQMWIRGNVSACARSIFIFDEMDKMHAGLIDAIKPFLDYYDVVDEVSYQKAIFIFLSNAGAERITDVALDFWRSGKQREEIKLRDMEHALAVSVFNNKNSGFWHSSLIDRNLIDYFVPFLPLEYKHLKMCIRVEMQSRGYEEDEDIINKVAEEMTFFPKEEKVFSDKGCKTVFTKLDYYLDD |
| 4340 | sp|Q1EG72|TPS11\_MAIZE | MAAPTLTTDGPRLGQQEMKKMSPSFHPTLWGDFFLSYEAPTEAQEAEMRQRAEVLREEVRNMIKGSHDVPEIVDLIITLQRLNLDYHYEDEINEKLAVVYNSNYDGGNLDLVSRRFYLLRKCGYHVSSDVFLNFKDQYGNFIEVDTRSLLSLYNAAYLRIHGETVLDEAISFTTRCLQDRLEHLESPIAEEVSSALDTPLFRRVGTLEMKDYIPIYEKDAKQNKSILEFAKLNFNLLQLLYSSELKECTTWWKELRVESNLSFVRDRIVEVYFWMSGGCYDPQYSHSRIILTKIVAFITILDDTLDSHANSYESMQLAEAVERWDESAVSLLPEYMKDFYMYLLKTFSSFENELGPDKSYRVFYLKEAVKELVREYTKEIKWRDEDYVPKTLKEHLKVSLISIGGTLVLCSAFVGMGDVVTKKIMEWVMSDAELVKSFGIFVRLSNDIVSTKREQREKHCVSTVQCYMKQHELTMDEACEQIKELTEDSWKFMIEQGLALKEYPIIVPRTVLEFARTVDYMYKEADKYTVSHTIKDMLTSLYVKPVLM |
| 4341 | sp|P26651|TTP\_HUMAN | MDLTAIYESLLSLSPDVPVPSDHGGTESSPGWGSSGPWSLSPSDSSPSGVTSRLPGRSTSLVEGRSCGWVPPPPGFAPLAPRLGPELSPSPTSPTATSTTPSRYKTELCRTFSESGRCRYGAKCQFAHGLGELRQANRHPKYKTELCHKFYLQGRCPYGSRCHFIHNPSEDLAAPGHPPVLRQSISFSGLPSGRRTSPPPPGLAGPSLSSSSFSPSSSPPPPGDLPLSPSAFSAAPGTPLARRDPTPVCCPSCRRATPISVWGPLGGLVRTPSVQSLGSDPDEYASSGSSLGGSDSPVFEAGVFAPPQPVAAPRRLPIFNRISVSE |
| 4342 | sp|Q7RTX0|TS1R3\_HUMAN | MLGPAVLGLSLWALLHPGTGAPLCLSQQLRMKGDYVLGGLFPLGEAEEAGLRSRTRPSSPVCTRFSSNGLLWALAMKMAVEEINNKSDLLPGLRLGYDLFDTCSEPVVAMKPSLMFLAKAGSRDIAAYCNYTQYQPRVLAVIGPHSSELAMVTGKFFSFFLMPQVSYGASMELLSARETFPSFFRTVPSDRVQLTAAAELLQEFGWNWVAALGSDDEYGRQGLSIFSALAAARGICIAHEGLVPLPRADDSRLGKVQDVLHQVNQSSVQVVLLFASVHAAHALFNYSISSRLSPKVWVASEAWLTSDLVMGLPGMAQMGTVLGFLQRGAQLHEFPQYVKTHLALATDPAFCSALGEREQGLEEDVVGQRCPQCDCITLQNVSAGLNHHQTFSVYAAVYSVAQALHNTLQCNASGCPAQDPVKPWQLLENMYNLTFHVGGLPLRFDSSGNVDMEYDLKLWVWQGSVPRLHDVGRFNGSLRTERLKIRWHTSDNQKPVSRCSRQCQEGQVRRVKGFHSCCYDCVDCEAGSYRQNPDDIACTFCGQDEWSPERSTRCFRRRSRFLAWGEPAVLLLLLLLSLALGLVLAALGLFVHHRDSPLVQASGGPLACFGLVCLGLVCLSVLLFPGQPSPARCLAQQPLSHLPLTGCLSTLFLQAAEIFVESELPLSWADRLSGCLRGPWAWLVVLLAMLVEVALCTWYLVAFPPEVVTDWHMLPTEALVHCRTRSWVSFGLAHATNATLAFLCFLGTFLVRSQPGCYNRARGLTFAMLAYFITWVSFVPLLANVQVVLRPAVQMGALLLCVLGILAAFHLPRCYLLMRQPGLNTPEFFLGGGPGDAQGQNDGNTGNQGKHE |
| 4343 | sp|Q8RYD9|TT16\_ARATH | MGRGKIEIKKIENQTARQVTFSKRRTGLIKKTRELSILCDAHIGLIVFSATGKLSEFCSEQNRMPQLIDRYLHTNGLRLPDHHDDQEQLHHEMELLRRETCNLELRLRPFHGHDLASIPPNELDGLERQLEHSVLKVRERKNELMQQQLENLSRKRRMLEEDNNNMYRWLHEHRAAMEFQQAGIDTKPGEYQQFIEQLQCYKPGEYQQFLEQQQQQPNSVLQLATLPSEIDPTYNLQLAQPNLQNDPTAQND |
| 4344 | sp|P16473|TSHR\_HUMAN | MRPADLLQLVLLLDLPRDLGGMGCSSPPCECHQEEDFRVTCKDIQRIPSLPPSTQTLKLIETHLRTIPSHAFSNLPNISRIYVSIDVTLQQLESHSFYNLSKVTHIEIRNTRNLTYIDPDALKELPLLKFLGIFNTGLKMFPDLTKVYSTDIFFILEITDNPYMTSIPVNAFQGLCNETLTLKLYNNGFTSVQGYAFNGTKLDAVYLNKNKYLTVIDKDAFGGVYSGPSLLDVSQTSVTALPSKGLEHLKELIARNTWTLKKLPLSLSFLHLTRADLSYPSHCCAFKNQKKIRGILESLMCNESSMQSLRQRKSVNALNSPLHQEYEENLGDSIVGYKEKSKFQDTHNNAHYYVFFEEQEDEIIGFGQELKNPQEETLQAFDSHYDYTICGDSEDMVCTPKSDEFNPCEDIMGYKFLRIVVWFVSLLALLGNVFVLLILLTSHYKLNVPRFLMCNLAFADFCMGMYLLLIASVDLYTHSEYYNHAIDWQTGPGCNTAGFFTVFASELSVYTLTVITLERWYAITFAMRLDRKIRLRHACAIMVGGWVCCFLLALLPLVGISSYAKVSICLPMDTETPLALAYIVFVLTLNIVAFVIVCCCYVKIYITVRNPQYNPGDKDTKIAKRMAVLIFTDFICMAPISFYALSAILNKPLITVSNSKILLVLFYPLNSCANPFLYAIFTKAFQRDVFILLSKFGICKRQAQAYRGQRVPPKNSTDIQVQKVTHDMRQGLHNMEDVYELIENSHLTPKKQGQISEEYMQTVL |
| 4345 | sp|D3ZKB9|TSH3\_RAT | MAAYVSDELKAAALVEDDIEPEEQVADGEPSAKYMCPEKELSKACPSYQNSPAAEFSSHEMDSESHISETSDRMADFESSSIKNEEETKEVQVPLEDTTVSDSLEQMKAVYNNFLSNSYWSNLNLNLHQPSSENNGGGSSSSSSSSSSSCGSGSFDWHQSAMAKTLQQVSQNRMLPEPSLFSTVQLYRQSSKLYGSIFTGASKFRCKDCSAAYDTLVELTVHMNETGHYRDDNHETDNNNPKRWSKPRKRSLLEMEGKEDAQKVLKCMYCGHSFESLQDLSVHMIKTKHYQKVPLKEPVTPVAAKIIPAARKKPSLELELPSSPDSTGGTPKATLSDASDALQKNSNPYITPNNRYGHQNGASYAWHFEARKSQILKCMECGSSHDTLQELTAHMMVTGHFIKVTNSAMKKGKPIMETPVTPTITTLLDEKVQSVPLAATTFTSPSNTPASVSPKLTVEIKKEVDKEKAVLDEKPKEKEKASEEEEKYDISSKYHYLTENDLEESPKGGLDILKSLENTVTSAINKAQNGTPSWGGYPSIHAAYQLPNMMKLSLGSSGKSTPLKPMFGNSEIVSPTKTQTLVSPPSSQTSPMPKTNFHAMEELVKKVTEKVAKVEEKMKEPDSKLSPPKRATPSPCSSEQSEPIKMEASSGSGFKSQENSPSPPRDVCKEASPSAEPVENGKELVKPLSGGSLSGSTAIITDHPPEQPFVNPLSALQSVMNIHLGKAAKPSLPALDPMSMLFKMSNSLAEKAAVATPPPLQAKKAEHLDRYFYHVNNDQPIDLTKGKSDKGCSLGSGLLSPTSTSPATSSSTVTTAKTSAVVSFMSNSPLRENALSDISDMLKNLTESHTSKSSTPSSISEKSDIDGATLEEAEESTPAQKRKGRQSNWNPQHLLILQAQFAASLRQTSEGKYIMSDLSPQERMHISRFTGLSMTTISHWLANVKYQLRRTGGTKFLKNLDTGHPVFFCNDCASQIRTPSTYISHLESHLGFRLRDLSKLSTEQINNQIAQTKSPSEKMVTSSPEEDLGTTYQCKLCNRTFASKHAVKLHLSKTHGKSPEDHLLFVSELEKQ |
| 4346 | sp|P60514|TXP1\_PSACA | EDCIPKWKGCVNRHGDCCEGLECWKRRRSFEVCVPKTPKT |
| 4347 | sp|Q04120|TSA2\_YEAST | MVAEVQKQAPPFKKTAVVDGIFEEISLEKYKGKYVVLAFVPLAFSFVCPTEIVAFSDAAKKFEDQGAQVLFASTDSEYSLLAWTNLPRKDGGLGPVKVPLLADKNHSLSRDYGVLIEKEGIALRGLFIIDPKGIIRHITINDLSVGRNVNEALRLVEGFQWTDKNGTVLPCNWTPGAATIKPDVKDSKEYFKNANN |
| 4348 | sp|Q9JJH7|TRPM5\_MOUSE | MQTTQSSCPGSPPDTEDGWEPILCRGEINFGGSGKKRGKFVKVPSSVAPSVLFELLLTEWHLPAPNLVVSLVGEERPLAMKSWLRDVLRKGLVKAAQSTGAWILTSALHVGLARHVGQAVRDHSLASTSTKIRVVAIGMASLDRILHRQLLDGVHQKEDTPIHYPADEGNIQGPLCPLDSNLSHFILVESGALGSGNDGLTELQLSLEKHISQQRTGYGGTSCIQIPVLCLLVNGDPNTLERISRAVEQAAPWLILAGSGGIADVLAALVSQPHLLVPQVAEKQFREKFPSECFSWEAIVHWTELLQNIAAHPHLLTVYDFEQEGSEDLDTVILKALVKACKSHSQEAQDYLDELKLAVAWDRVDIAKSEIFNGDVEWKSCDLEEVMTDALVSNKPDFVRLFVDSGADMAEFLTYGRLQQLYHSVSPKSLLFELLQRKHEEGRLTLAGLGAQQARELPIGLPAFSLHEVSRVLKDFLHDACRGFYQDGRRMEERGPPKRPAGQKWLPDLSRKSEDPWRDLFLWAVLQNRYEMATYFWAMGREGVAAALAACKIIKEMSHLEKEAEVARTMREAKYEQLALDLFSECYGNSEDRAFALLVRRNHSWSRTTCLHLATEADAKAFFAHDGVQAFLTKIWWGDMATGTPILRLLGAFTCPALIYTNLISFSEDAPQRMDLEDLQEPDSLDMEKSFLCSRGGQLEKLTEAPRAPGDLGPQAAFLLTRWRKFWGAPVTVFLGNVVMYFAFLFLFTYVLLVDFRPPPQGPSGSEVTLYFWVFTLVLEEIRQGFFTDEDTHLVKKFTLYVEDNWNKCDMVAIFLFIVGVTCRMVPSVFEAGRTVLAIDFMVFTLRLIHIFAIHKQLGPKIIIVERMMKDVFFFLFFLSVWLVAYGVTTQALLHPHDGRLEWIFRRVLYRPYLQIFGQIPLDEIDEARVNCSLHPLLLESSASCPNLYANWLVILLLVTFLLVTNVLLMNLLIAMFSYTFQVVQGNADMFWKFQRYHLIVEYHGRPALAPPFILLSHLSLVLKQVFRKEAQHKRQHLERDLPDPLDQKIITWETVQKENFLSTMEKRRRDSEGEVLRKTAHRVDLIAKYIGGLREQEKRIKCLESQANYCMLLLSSMTDTLAPGGTYSSSQNCGCRSQPASARDREYLESGLPPSDT |
| 4349 | sp|P0AGC0|UHPT\_ECOLI | MLAFLNQVRKPTLDLPLEVRRKMWFKPFMQSYLVVFIGYLTMYLIRKNFNIAQNDMISTYGLSMTQLGMIGLGFSITYGVGKTLVSYYADGKNTKQFLPFMLILSAICMLGFSASMGSGSVSLFLMIAFYALSGFFQSTGGSCSYSTITKWTPRRKRGTFLGFWNISHNLGGAGAAGVALFGANYLFDGHVIGMFIFPSIIALIVGFIGLRYGSDSPESYGLGKAEELFGEEISEEDKETESTDMTKWQIFVEYVLKNKVIWLLCFANIFLYVVRIGIDQWSTVYAFQELKLSKAVAIQGFTLFEAGALVGTLLWGWLSDLANGRRGLVACIALALIIATLGVYQHASNEYIYLASLFALGFLVFGPQLLIGVAAVGFVPKKAIGAADGIKGTFAYLIGDSFAKLGLGMIADGTPVFGLTGWAGTFAALDIAAIGCICLMAIVAVMEERKIRREKKIQQLTVA |
| 4350 | sp|A6QNM7|UBP33\_BOVIN | MSSFRSHCPHLDSVGEITKEDLIQKSHGSCQDCKVRGPNLWACLENRCSYVGCGESQVDHSTIHSQETKHYLTVNLTTLRVWCYACSKEVFLDRKLGTQPSLPHVKPLHQIQENGVQDFKIPSNTTLKTPLVAVFDDLDIEVEEEDELKARGLTGLKNIGNTCYMNAALQALSNCPPLTQFFLDCGGLARTDKKPAICKSYLKLMTELWHKSRPGSVVPTTLFQGIKTVNPTFRGYSQQDAQEFLRCLMDLLHEELKEQVMEVEEDPQTIMTEETMEEDKSQSDVDFQSCESCSSSDKAENENGSRSFSEDNNETTMLIQDDENNSEMSKDWQKEKMCNKINKVHSEGELDKDRDSVSETADLNNQETVKVQIHSRASEYITDVHLNDLSTPQILPSNEGVNPRLSASPPKSGNLWPGLPPTHKKVQSALSPKRKKQHKKYRSVISDIFDGTIISSVQCLTCDRVSVTLETFQDLSLPIPGKEDLAKLHSSSHPTSIVKAGSCGEAYAPQGWIAFFMEYVKRFVVSCVPSWFWGPVVTLQDCLAAFFARDELKGDNMYSCEKCKKLRNGVKFCKVQKFPEILCIHLKRFRHELMFSTKISTHVSFPLEGLDLQPFLAKDSPVQIVTYDLLSVICHHGTASSGHYIAYCRNNLNNLWYEFDDQSVTEVSESTVQNAEAYVLFYRKSSEEAQKERRRISNLLNIMEPSLLQFYISRQWLNKFKTFAEPGPISNNDFLCIHGGVPPRKAGYIEDLVLMLPQNIWDNLYSRYGGGPAVNHLYICHTCQIEAEKIEKRRKTELEIFIRLNRAFQEEDSPATFYCISMQWFREWESFVKGKDGDPPGPIDNTKIAVTKCGNVILRQGADSGQISEETWNFLQSIYGGGPEVILRPPVVHVDPDAVQAEEKIEVETRSL |
| 4351 | sp|Q9ZNT0|VPS4\_ARATH | MYSNFKEQAIEYVKQAVHEDNAGNYNKAFPLYMNALEYFKTHLKYEKNPKIREAITQKFTEYLRRAEEIRAVLDEGGSGPGSNGDAAVATRPKTKPKDGEGGGKDGEDPEQSKLRAGLNSAIVREKPNIKWSDVAGLESAKQALQEAVILPVKFPQFFTGKRRPWRAFLLYGPPGTGKSYLAKAVATEADSTFFSVSSSDLVSKWMGESEKLVSNLFEMARESAPSIIFVDEIDSLCGTRGEGNESEASRRIKTELLVQMQGVGHNDEKVLVLAATNTPYALDQAIRRRFDKRIYIPLPEAKARQHMFKVHLGDTPHNLTEPDFEYLGQKTEGFSGSDVSVCVKDVLFEPVRKTQDAMFFFKSPDGTWMPCGPRHPGAIQTTMQDLATKGLAEKIIPPPITRTDFEKVLARQRPTVSKSDLDVHERFTQEFGEEG |
| 4352 | sp|Q8C0E2|VP26B\_MOUSE | MSFFGFGQSVEVEILLNDAESRKRAEHKTEDGKKEKYFLFYDGETVSGKVSLSLKNPNKRLEHQGIKIEFIGQIELYYDRGNHHEFVSLVKDLARPGEITQSQAFDFEFTHVEKPYESYTGQNVKLRYFLRATISRRLNDVVKEMDIVVHTLSTYPELNSSIKMEVGIEDCLHIEFEYNKSKYHLKDVIVGKIYFLLVRIKIKHMEIDIIKRETTGTGPNVYHENDTIAKYEIMDGAPVRGESIPIRLFLAGYELTPTMRDINKKFSVRYYLNLVLIDEEERRYFKQQEVVLWRKGDIVRKSMSHQAAIASQRFEGTTSLGEVRTPGQLSDNNSRQ |
| 4353 | sp|P02640|VILI\_CHICK | MVELSKKVTGKLDKTTPGIQIWRIENMEMVPVPTKSYGNFYEGDCYVLLSTRKTGSGFSYNIHYWLGKNSSQDEQGAAAIYTTQMDEYLGSVAVQHREVQGHESETFRAYFKQGLIYKQGGVASGMKHVETNTYNVQRLLHVKGKKNVVAAEVEMSWKSFNLGDVFLLDLGQLIIQWNGPESNRAERLRAMTLAKDIRDRERAGRAKVGVVEGENEAASPELMQALTHVLGEKKNIKAATPDEQVHQALNSALKLYHVSDASGNLVIQEVAIRPLTQDMLQHEDCYILDQAGLKIFVWKGKNANKEEKQQAMSRALGFIKAKNYLASTSVETENDGSESAVFRQLFQKWTVPNQTSGLGKTHTVGKVAKVEQVKFDATTMHVKPEVAAQQKMVDDGSGEAEVWRVENQELVPVEKRWLGHFYGGDCYLVLYTYYVGPKVNRIIYIWQGRHASTDELAASAYQAVFLDQKYNNEPVQVRVTMGKEPAHLMAIFKGKMVVYENGSSRAGGTEPASSTRLFHVHGTNEYNTKAFEVPVRAASLNSNDVFVLKTPSSCYLWYGKGCSGDEREMGKMVADIISKTEKPVVAEGQEPPEFWVALGGKTSYANSKRLQEENPSVPPRLFECSNKTGRFLATEIVDFTQDDLDENDVYLLDTWDQIFFWIGKGANESEKEAAAETAQEYLRSHPGSRDLDTPIIVVKQGFEPPTFTGWFMAWDPLCWSDRKSYDELKAELGDNASIGQLVSGLTSKNEVFTATTTLVPTKLETFPLDVLVNTAAEDLPRGVDPSRKENHLSDEDFKAVFGMTRSAFANLPLWKQQNLKKEKGLF |
| 4354 | sp|Q89853|VGP\_EBORS | MGSGYQLLQLPRERFRKTSFLVWVIILFQRAISMPLGIVTNSTLKATEIDQLVCRDKLSSTSQLKSVGLNLEGNGIATDVPSATKRWGFRSGVPPKVVSYEAGEWAENCYNLEIKKSDGSECLPLPPDGVRGFPRCRYVHKVQGTGPCPGDLAFHKNGAFFLYDRLASTVIYRGTTFTEGVVAFLILSEPKKHFWKATPAHEPVNTTDDSTSYYMTLTLSYEMSNFGGKESNTLFKVDNHTYVQLDRPHTPQFLVQLNETLRRNNRLSNSTGRLTWTLDPKIEPDVGEWAFWETKKNFSQQLHGENLHFQILSTHTNNSSDQSPAGTVQGKISYHPPTNNSELVPTDSPPVVSVLTAGRTEEMSTQGLTNGETITGFTANPMTTTIAPSPTMTSEVDNNVPSEQPNNTASIEDSPPSASNETIDHSEMNPIQGSNNSAQSPQTKTTPAPTASPMTQDPQETANSSKLGTSPGSAAEPSQPGFTINTVSKVADSLSPTRKQKRSVRQNTANKCNPDLHYWTAVDEGAAVGLAWIPYFGPAAEGIYIEGVMHNQNGLICGLRQLANETTQALQLFLRATTELRTYSLLNRKAIDFLLQRWGGTCRILGPSCCIEPHDWTKNITDEINQIKHDFIDNPLPDHGDDLNLWTGWRQWIPAGIGIIGVIIAIIALLCICKILC |
| 4355 | sp|Q91DD8|VGP\_EBORE | MGSGYQLLQLPRERFRKTSFLVWVIILFQRAISMPLGIVTNSTLKATEIDQLVCRDKLSSTSQLKSVGLNLEGNGIATDVPSATKRWGFRSGVPPKVVSYEAGEWAENCYNLEIKKSDGSECLPLPPDGVRGFPRCRYVHKVQGTGPCPGDLAFHKNGAFFLYDRLASTVIYRGTTFAEGVIAFLILSEPKKHFWKATPAHEPVNTTDDSTSYYMTLTLSYEMSNFGGEESNTLFKVDNHTYVQLDRPHTPQFLVQLNETLRRNNRLSNSTGRLTWTVDPKIEPDVGEWAFWETKKNFSQQLHGENLHFQILSTHTNNSSDQSPAGTVQGKISYHPPTNNSELVPTDSPPVVSVLTAGRTEEMSTQGLTNGETITGFTANPMTTTIAPSPTMTSEVDNNVPSEQPNNTASIEDSPPSASNETIDHSEMNSIQGSNNSAQSPQTKATPAPTASPMTLDPQETANISKPGTSPGSAAGPSQPGLTINTISKVADSLSPTRKQKRSVRQNTANKCNPDLHYWTAVDEGAAAGLAWIPYFGPAAEGIYIEGVMHNQNGLICGLRQLANETTQALQLFLRATTELRTYSLLNRKAIDFLLQRWGGTCRILGPSCCIEPHDWTKNITDEINQIKHDFIDNPLPDHGDDLNLWTGWRQWIPAGIGIIGVIIAIIALLCICKILC |
| 4356 | sp|P16778|VGLI\_HCMVA | MSPVYVNLLGSVGLLAFWYFSYRWIQRKRLEDPLPPWLRKKKACALTRRSRHRLRRQHGVIDGENSETERSVDLVAALLAEAGEESVTEDTEREDTEEEREDEEEENEARTPEVNPIDAEGLSGLAREACEALKKALRRHRFLWQRRQRARMLQHNGPQQSHHAAVFCRVHGLRGFQVSVWLLLTLLWSTGHGVSVRCTYHGTDVNRTSNTTSMNCHLNCTRNHTQIYNGPCLGTEARLPLNVTFNQSRRKWHSVMLKFGFQYHLEGWFPLRVLNESREINVTEVHGEVACFRNDTNVTVGQLTLNFTGHSYVLRAIAHTSPFESYVRWEETNVTDNATSSENTTTVMSTLTKYAESDYIFLQDMCPRFLKRTVKLTRNKTKHNVTVTGNNMTTLPVWTPECKGWTYWTTLSVMWRNRRSALLRAKSRALGHWALLSICTVAAGSIALLSLFCILLIGLRRDLLEDFRYICRDEGSSSTKNDVHRIV |
| 4357 | sp|P35253|VGP\_MABVM | MKTTCFLISLILIQGTKNLPILEIASNNQPQNVDSVCSGTLQKTEDVHLMGFTLSGQKVADSPLEASKRWAFRTGVPPKNVEYTEGEEAKTCYNISVTDPSGKSLLLDPPTNIRDYPKCKTIHHIQGQNPHAQGIALHLWGAFFLYDRIASTTMYRGKVFTEGNIAAMIVNKTVHKMIFSRQGQGYRHMNLTSTNKYWTSSNGTQTNDTGCFGALQEYNSTKNQTCAPSKIPPPLPTARPEIKLTSTPTDATKLNTTDPSSDDEDLATSGSGSGEREPHTTSDAVTKQGLSSTMPPTPSPQPSTPQQGGNNTNHSQDAVTELDKNNTTAQPSMPPHNTTTISTNNTSKHNFSTLSAPLQNTTNDNTQSTITENEQTSAPSITTLPPTGNPTTAKSTSSKKGPATTAPNTTNEHFTSPPPTPSSTAQHLVYFRRKRSILWREGDMFPFLDGLINAPIDFDPVPNTKTIFDESSSSGASAEEDQHASPNISLTLSYFPNINENTAYSGENENDCDAELRIWSVQEDDLAAGLSWIPFFGPGIEGLYTAVLIKNQNNLVCRLRRLANQTAKSLELLLRVTTEERTFSLINRHAIDFLLTRWGGTCKVLGPDCCIGIEDLSKNISEQIDQIKKDEQKEGTGWGLGGKWWTSDWGVLTNLGILLLLSIAVLIALSCICRIFTKYIG |
| 4358 | sp|Q9MA75|VIP1\_ARATH | MEGGGRGPNQTILSEIEHMPEAPRQRISHHRRARSETFFSGESIDDLLLFDPSDIDFSSLDFLNAPPPPQQSQQQPQASPMSVDSEETSSNGVVPPNSLPPKPEARFGRHVRSFSVDSDFFDDLGVTEEKFIATSSGEKKKGNHHHSRSNSMDGEMSSASFNIESILASVSGKDSGKKNMGMGGDRLAELALLDPKRAKRILANRQSAARSKERKIRYTGELERKVQTLQNEATTLSAQVTMLQRGTSELNTENKHLKMRLQALEQQAELRDALNEALRDELNRLKVVAGEIPQGNGNSYNRAQFSSQQSAMNQFGNKTNQQMSTNGQPSLPSYMDFTKRG |
| 4359 | sp|P00982|VKTHD\_DENAN | AAKYCKLPVRYGPCKKKIPSFYYKWKAKQCLPFDYSGCGGNANRFKTIEECRRTCVG |
| 4360 | sp|Q9H598|VIAAT\_HUMAN | MATLLRSKLSNVATSVSNKSQAKMSGMFARMGFQAATDEEAVGFAHCDDLDFEHRQGLQMDILKAEGEPCGDEGAEAPVEGDIHYQRGSGAPLPPSGSKDQVGGGGEFGGHDKPKITAWEAGWNVTNAIQGMFVLGLPYAILHGGYLGLFLIIFAAVVCCYTGKILIACLYEENEDGEVVRVRDSYVAIANACCAPRFPTLGGRVVNVAQIIELVMTCILYVVVSGNLMYNSFPGLPVSQKSWSIIATAVLLPCAFLKNLKAVSKFSLLCTLAHFVINILVIAYCLSRARDWAWEKVKFYIDVKKFPISIGIIVFSYTSQIFLPSLEGNMQQPSEFHCMMNWTHIAACVLKGLFALVAYLTWADETKEVITDNLPGSIRAVVNIFLVAKALLSYPLPFFAAVEVLEKSLFQEGSRAFFPACYSGDGRLKSWGLTLRCALVVFTLLMAIYVPHFALLMGLTGSLTGAGLCFLLPSLFHLRLLWRKLLWHQVFFDVAIFVIGGICSVSGFVHSLEGLIEAYRTNAED |
| 4361 | sp|Q15493|RGN\_HUMAN | MSSIKIECVLPENCRCGESPVWEEVSNSLLFVDIPAKKVCRWDSFTKQVQRVTMDAPVSSVALRQSGGYVATIGTKFCALNWKEQSAVVLATVDNDKKNNRFNDGKVDPAGRYFAGTMAEETAPAVLERHQGALYSLFPDHHVKKYFDQVDISNGLDWSLDHKIFYYIDSLSYSVDAFDYDLQTGQISNRRSVYKLEKEEQIPDGMCIDAEGKLWVACYNGGRVIRLDPVTGKRLQTVKLPVDKTTSCCFGGKNYSEMYVTCARDGMDPEGLLRQPEAGGIFKITGLGVKGIAPYSYAG |
| 4362 | sp|Q96TC7|RMD3\_HUMAN | MSRLGALGGARAGLGLLLGTAAGLGFLCLLYSQRWKRTQRHGRSQSLPNSLDYTQTSDPGRHVMLLRAVPGGAGDASVLPSLPREGQEKVLDRLDFVLTSLVALRREVEELRSSLRGLAGEIVGEVRCHMEENQRVARRRRFPFVRERSDSTGSSSVYFTASSGATFTDAESEGGYTTANAESDNERDSDKESEDGEDEVSCETVKMGRKDSLDLEEEAASGASSALEAGGSSGLEDVLPLLQQADELHRGDEQGKREGFQLLLNNKLVYGSRQDFLWRLARAYSDMCELTEEVSEKKSYALDGKEEAEAALEKGDESADCHLWYAVLCGQLAEHESIQRRIQSGFSFKEHVDKAIALQPENPMAHFLLGRWCYQVSHLSWLEKKTATALLESPLSATVEDALQSFLKAEELQPGFSKAGRVYISKCYRELGKNSEARWWMKLALELPDVTKEDLAIQKDLEELEVILRD |
| 4363 | sp|Q96PX1|RN157\_HUMAN | MGALTSRQHAGVEEVDIPSNSVYRYPPKSGSYFASHFIMGGEKFDSTHPEGYLFGENSDLNFLGNRPVVFPYAAPPPQEPVKTLRSLVNIRKDTLRLVKCAEEVKSPGEEASKAKVHYNVEFTFDTDARVAITIYYQATEEFQNGIASYIPKDNSLQSETVQYKRGVCQQFCLPSHTVDPSEWAEEELGFDLDREVYPLVVHAVVDEGDEYFGHCHVLLGTFEKHTDGTFCVKPLKQKQVVDGVSYLLQEIYGIENKYNTQDSKVAEDEVSDNSAECVVCLSDVRDTLILPCRHLCLCNTCADTLRYQANNCPICRLPFRALLQIRAMRKKLGPLSPTSFNPIISSQTSDSEEHPSSENIPPGYEVVSLLEALNGPLTPSPAVPPLHVLGDGHLSGMLPSYGSDGHLPPVRTISPLDRLSDSSSQGLKLKKSLSKSTSQNSSVLHEEEDEHSCSESETQLSQRPSVQHLGEECGVTPESENLTLSSSGAIDQSSCTGTPLSSTISSPEGPASSSLAQSVMSMASSQISTDTVSSMSGSYIAPGTEEEGEALSSPQPASRAPSEEGEGLPAESPDSNFAGLPAGEQDAEGNDVIEEEDGSPTQEGQRTCAFLGMECDNNNDFDIASVKALDNKLCSEVCLPGAWQADDNAVSRNAQRRRLSSSSLEDSETRPCVWGPLAV |
| 4364 | sp|P75864|RLMKL\_ECOLI | MNSLFASTARGLEELLKTELENLGAVECQVVQGGVHFKGDTRLVYQSLMWSRLASRIMLPLGECKVYSDLDLYLGVQAINWTEMFNPGATFAVHFSGLNDTIRNSQYGAMKVKDAIVDAFTRKNLPRPNVDRDAPDIRVNVWLHKETASIALDLSGDGLHLRGYRDRAGIAPIKETLAAAIVMRSGWQPGTPLLDPMCGSGTLLIEAAMLATDRAPGLHRGRWGFSGWAQHDEAIWQEVKAEAQTRARKGLAEYSSHFYGSDSDARVIQRARTNARLAGIGELITFEVKDVAQLTNPLPKGPYGTVLSNPPYGERLDSEPALIALHSLLGRIMKNQFGGWNLSLFSASPDLLSCLQLRADKQYKAKNGPLDCVQKNYHVAESTPDSKPAMVAEDYTNRLRKNLKKFEKWARQEGIECYRLYDADLPEYNVAVDRYADWVVVQEYAPPKTIDAHKARQRLFDIIAATISVLGIAPNKLVLKTRERQKGKNQYQKLGEKGEFLEVTEYNAHLWVNLTDYLDTGLFLDHRIARRMLGQMSKGKDFLNLFSYTGSATVHAGLGGARSTTTVDMSRTYLEWAERNLRLNGLTGRAHRLIQADCLAWLREANEQFDLIFIDPPTFSNSKRMEDAFDVQRDHLALMKDLKRLLRAGGTIMFSNNKRGFRMDLDGLAKLGLKAQEITQKTLSQDFARNRQIHNCWLITAA |
| 4365 | sp|Q6ZRF8|RN207\_HUMAN | MSGAIFGPLEGPSSLDAPSIHPLVCPLCHVQYERPCLLDCFHDFCAGCLRGRATDGRLTCPLCQHQTVLKGPSGLPPVDRLLQFLVDSSGDGVEAVRCANCDLECSEQDVETTYFCNTCGQPLCARCRDETHRARMFARHDIVALGQRSRDVPQKCTLHAEPYLLFSTDKKLLLCIRCFRDMQKESRAHCVDLESAYVQGCERLEQAVLAVKALQTATREAIALLQAMVEEVRHSAAEEEDAIHALFGSMQDRLAERKALLLQAVQSQYEEKDKAFKEQLSHLATLLPTLQVHLVICSSFLSLANKAEFLDLGYELMERLQGIVTRPHHLRPIQSSKIASDHRAEFARCLEPLLLLGPRRVAAAASGANTLAGGLGPKALTGPHCPSPVGKMSGSPVQKPTLHRSISTKVLLAEGENTPFAEHCRHYEDSYRHLQAEMQSLKDQVQELHRDLTKHHSLIKAEIMGDVLHKSLQLDVQIASEHASLEGMRVVFQEIWEEAYQRVANEQEIYEAQLHDLLQLRQENAYLTTITKQITPYVRSIAKVKERLEPRFQAPVDEQSESLQNTHDDSRNNAASARNNPGSVPEKREKTSEPKGNSWAPNGLSEEPLLKNMDHHRSKQKNGGDVPTWREHPT |
| 4366 | sp|Q9Y508|RN114\_HUMAN | MAAQQRDCGGAAQLAGPAAEADPLGRFTCPVCLEVYEKPVQVPCGHVFCSACLQECLKPKKPVCGVCRSALAPGVRAVELERQIESTETSCHGCRKNFFLSKIRSHVATCSKYQNYIMEGVKATIKDASLQPRNVPNRYTFPCPYCPEKNFDQEGLVEHCKLFHSTDTKSVVCPICASMPWGDPNYRSANFREHIQRRHRFSYDTFVDYDVDEEDMMNQVLQRSIIDQ |
| 4367 | sp|P12271|RLBP1\_HUMAN | MSEGVGTFRMVPEEEQELRAQLEQLTTKDHGPVFGPCSQLPRHTLQKAKDELNEREETREEAVRELQEMVQAQAASGEELAVAVAERVQEKDSGFFLRFIRARKFNVGRAYELLRGYVNFRLQYPELFDSLSPEAVRCTIEAGYPGVLSSRDKYGRVVMLFNIENWQSQEITFDEILQAYCFILEKLLENEETQINGFCIIENFKGFTMQQAASLRTSDLRKMVDMLQDSFPARFKAIHFIHQPWYFTTTYNVVKPFLKSKLLERVFVHGDDLSGFYQEIDENILPSDFGGTLPKYDGKAVAEQLFGPQAQAENTAF |
| 4368 | sp|P47735|RLK5\_ARATH | MLYCLILLLCLSSTYLPSLSLNQDATILRQAKLGLSDPAQSLSSWSDNNDVTPCKWLGVSCDATSNVVSVDLSSFMLVGPFPSILCHLPSLHSLSLYNNSINGSLSADDFDTCHNLISLDLSENLLVGSIPKSLPFNLPNLKFLEISGNNLSDTIPSSFGEFRKLESLNLAGNFLSGTIPASLGNVTTLKELKLAYNLFSPSQIPSQLGNLTELQVLWLAGCNLVGPIPPSLSRLTSLVNLDLTFNQLTGSIPSWITQLKTVEQIELFNNSFSGELPESMGNMTTLKRFDASMNKLTGKIPDNLNLLNLESLNLFENMLEGPLPESITRSKTLSELKLFNNRLTGVLPSQLGANSPLQYVDLSYNRFSGEIPANVCGEGKLEYLILIDNSFSGEISNNLGKCKSLTRVRLSNNKLSGQIPHGFWGLPRLSLLELSDNSFTGSIPKTIIGAKNLSNLRISKNRFSGSIPNEIGSLNGIIEISGAENDFSGEIPESLVKLKQLSRLDLSKNQLSGEIPRELRGWKNLNELNLANNHLSGEIPKEVGILPVLNYLDLSSNQFSGEIPLELQNLKLNVLNLSYNHLSGKIPPLYANKIYAHDFIGNPGLCVDLDGLCRKITRSKNIGYVWILLTIFLLAGLVFVVGIVMFIAKCRKLRALKSSTLAASKWRSFHKLHFSEHEIADCLDEKNVIGFGSSGKVYKVELRGGEVVAVKKLNKSVKGGDDEYSSDSLNRDVFAAEVETLGTIRHKSIVRLWCCCSSGDCKLLVYEYMPNGSLADVLHGDRKGGVVLGWPERLRIALDAAEGLSYLHHDCVPPIVHRDVKSSNILLDSDYGAKVADFGIAKVGQMSGSKTPEAMSGIAGSCGYIAPEYVYTLRVNEKSDIYSFGVVLLELVTGKQPTDSELGDKDMAKWVCTALDKCGLEPVIDPKLDLKFKEEISKVIHIGLLCTSPLPLNRPSMRKVVIMLQEVSGAVPCSSPNTSKRSKTGGKLSPYYTEDLNSV |
| 4369 | sp|Q9UNE2|RPH3L\_HUMAN | MADTIFGSGNDQWVCPNDRQLALRAKLQTGWSVHTYQTEKQRRKQHLSPAEVEAILQVIQRAERLDVLEQQRIGRLVERLETMRRNVMGNGLSQCLLCGEVLGFLGSSSVFCKDCRKKVCTKCGIEASPGQKRPLWLCKICSEQREVWKRSGAWFYKGLPKYILPLKTPGRADDPHFRPLPTEPAEREPRSSETSRIYTWARGRVVSSDSDSDSDLSSSSLEDRLPSTGVRDRKGDKPWKESGGSVEAPRMGFTHPPGHLSGCQSSLASGETGTGSADPPGGPRPGLTRRAPVKDTPGRAPAADAAPAGPSSCLG |
| 4370 | sp|Q9HCK4|ROBO2\_HUMAN | MSLLMFTQLLLCGFLYVRVDGSRLRQEDFPPRIVEHPSDVIVSKGEPTTLNCKAEGRPTPTIEWYKDGERVETDKDDPRSHRMLLPSGSLFFLRIVHGRRSKPDEGSYVCVARNYLGEAVSRNASLEVALLRDDFRQNPTDVVVAAGEPAILECQPPRGHPEPTIYWKKDKVRIDDKEERISIRGGKLMISNTRKSDAGMYTCVGTNMVGERDSDPAELTVFERPTFLRRPINQVVLEEEAVEFRCQVQGDPQPTVRWKKDDADLPRGRYDIKDDYTLRIKKTMSTDEGTYMCIAENRVGKMEASATLTVRAPPQFVVRPRDQIVAQGRTVTFPCETKGNPQPAVFWQKEGSQNLLFPNQPQQPNSRCSVSPTGDLTITNIQRSDAGYYICQALTVAGSILAKAQLEVTDVLTDRPPPIILQGPANQTLAVDGTALLKCKATGDPLPVISWLKEGFTFPGRDPRATIQEQGTLQIKNLRISDTGTYTCVATSSSGETSWSAVLDVTESGATISKNYDLSDLPGPPSKPQVTDVTKNSVTLSWQPGTPGTLPASAYIIEAFSQSVSNSWQTVANHVKTTLYTVRGLRPNTIYLFMVRAINPQGLSDPSPMSDPVRTQDISPPAQGVDHRQVQKELGDVLVRLHNPVVLTPTTVQVTWTVDRQPQFIQGYRVMYRQTSGLQATSSWQNLDAKVPTERSAVLVNLKKGVTYEIKVRPYFNEFQGMDSESKTVRTTEEAPSAPPQSVTVLTVGSYNSTSISVSWDPPPPDHQNGIIQEYKIWCLGNETRFHINKTVDAAIRSVIIGGLFPGIQYRVEVAASTSAGVGVKSEPQPIIIGRRNEVVITENNNSITEQITDVVKQPAFIAGIGGACWVILMGFSIWLYWRRKKRKGLSNYAVTFQRGDGGLMSNGSRPGLLNAGDPSYPWLADSWPATSLPVNNSNSGPNEIGNFGRGDVLPPVPGQGDKTATMLSDGAIYSSIDFTTKTSYNSSSQITQATPYATTQILHSNSIHELAVDLPDPQWKSSIQQKTDLMGFGYSLPDQNKGNNGGKGGKKKKNKNSSKPQKNNGSTWANVPLPPPPVQPLPGTELEHYAVEQQENGYDSDSWCPPLPVQTYLHQGLEDELEEDDDRVPTPPVRGVASSPAISFGQQSTATLTPSPREEMQPMLQAHLDELTRAYQFDIAKQTWHIQSNNQPPQPPVPPLGYVSGALISDLETDVADDDADDEEEALEIPRPLRALDQTPGSSMDNLDSSVTGKAFTSSQRPRPTSPFSTDSNTSAALSQSQRPRPTKKHKGGRMDQQPALPHRREGMTDEEALVPYSKPSFPSPGGHSSSGTASSKGSTGPRKTEVLRAGHQRNASDLLDIGYMGSNSQGQFTGEL |
| 4371 | sp|Q8WZ75|ROBO4\_HUMAN | MGSGGDSLLGGRGSLPLLLLLIMGGMAQDSPPQILVHPQDQLFQGPGPARMSCQASGQPPPTIRWLLNGQPLSMVPPDPHHLLPDGTLLLLQPPARGHAHDGQALSTDLGVYTCEASNRLGTAVSRGARLSVAVLREDFQIQPRDMVAVVGEQFTLECGPPWGHPEPTVSWWKDGKPLALQPGRHTVSGGSLLMARAEKSDEGTYMCVATNSAGHRESRAARVSIQEPQDYTEPVELLAVRIQLENVTLLNPDPAEGPKPRPAVWLSWKVSGPAAPAQSYTALFRTQTAPGGQGAPWAEELLAGWQSAELGGLHWGQDYEFKVRPSSGRARGPDSNVLLLRLPEKVPSAPPQEVTLKPGNGTVFVSWVPPPAENHNGIIRGYQVWSLGNTSLPPANWTVVGEQTQLEIATHMPGSYCVQVAAVTGAGAGEPSRPVCLLLEQAMERATQEPSEHGPWTLEQLRATLKRPEVIATCGVALWLLLLGTAVCIHRRRRARVHLGPGLYRYTSEDAILKHRMDHSDSQWLADTWRSTSGSRDLSSSSSLSSRLGADARDPLDCRRSLLSWDSRSPGVPLLPDTSTFYGSLIAELPSSTPARPSPQVPAVRRLPPQLAQLSSPCSSSDSLCSRRGLSSPRLSLAPAEAWKAKKKQELQHANSSPLLRGSHSLELRACELGNRGSKNLSQSPGAVPQALVAWRALGPKLLSSSNELVTRHLPPAPLFPHETPPTQSQQTQPPVAPQAPSSILLPAAPIPILSPCSPPSPQASSLSGPSPASSRLSSSSLSSLGEDQDSVLTPEEVALCLELSEGEETPRNSVSPMPRAPSPPTTYGYISVPTASEFTDMGRTGGGVGPKGGVLLCPPRPCLTPTPSEGSLANGWGSASEDNAASARASLVSSSDGSFLADAHFARALAVAVDSFGFGLEPREADCVFIDASSPPSPRDEIFLTPNLSLPLWEWRPDWLEDMEVSHTQRLGRGMPPWPPDSQISSQRSQLHCRMPKAGASPVDYS |
| 4372 | sp|Q96P16|RPR1A\_HUMAN | MSAFSEAALEKKLSELSNSQQSVQTLSLWLIHHRKHSRPIVTVWERELRKAKPNRKLTFLYLANDVIQNSKRKGPEFTKDFAPVIVEAFKHVSSETDESCKKHLGRVLSIWEERSVYENDVLEQLKQALYGDKKPRKRTYEQIKVDENENCSSLGSPSEPPQTLDLVRALQDLENAASGDAAVHQRIASLPVEVQEVSLLDKITDKESGERLSKMVEDACMLLADYNGRLAAEIDDRKQLTRMLADFLRCQKEALAEKEHKLEEYKRKLARVSLVRKELRSRIQSLPDLSRLPNVTGSHMHLPFAGDIYSED |
| 4373 | sp|O75116|ROCK2\_HUMAN | MSRPPPTGKMPGAPETAPGDGAGASRQRKLEALIRDPRSPINVESLLDGLNSLVLDLDFPALRKNKNIDNFLNRYEKIVKKIRGLQMKAEDYDVVKVIGRGAFGEVQLVRHKASQKVYAMKLLSKFEMIKRSDSAFFWEERDIMAFANSPWVVQLFYAFQDDRYLYMVMEYMPGGDLVNLMSNYDVPEKWAKFYTAEVVLALDAIHSMGLIHRDVKPDNMLLDKHGHLKLADFGTCMKMDETGMVHCDTAVGTPDYISPEVLKSQGGDGFYGRECDWWSVGVFLYEMLVGDTPFYADSLVGTYSKIMDHKNSLCFPEDAEISKHAKNLICAFLTDREVRLGRNGVEEIRQHPFFKNDQWHWDNIRETAAPVVPELSSDIDSSNFDDIEDDKGDVETFPIPKAFVGNQLPFIGFTYYRENLLLSDSPSCRETDSIQSRKNEESQEIQKKLYTLEEHLSNEMQAKEELEQKCKSVNTRLEKTAKELEEEITLRKSVESALRQLEREKALLQHKNAEYQRKADHEADKKRNLENDVNSLKDQLEDLKKRNQNSQISTEKVNQLQRQLDETNALLRTESDTAARLRKTQAESSKQIQQLESNNRDLQDKNCLLETAKLKLEKEFINLQSALESERRDRTHGSEIINDLQGRICGLEEDLKNGKILLAKVELEKRQLQERFTDLEKEKSNMEIDMTYQLKVIQQSLEQEEAEHKATKARLADKNKIYESIEEAKSEAMKEMEKKLLEERTLKQKVENLLLEAEKRCSLLDCDLKQSQQKINELLKQKDVLNEDVRNLTLKIEQETQKRCLTQNDLKMQTQQVNTLKMSEKQLKQENNHLMEMKMNLEKQNAELRKERQDADGQMKELQDQLEAEQYFSTLYKTQVRELKEECEEKTKLGKELQQKKQELQDERDSLAAQLEITLTKADSEQLARSIAEEQYSDLEKEKIMKELEIKEMMARHKQELTEKDATIASLEETNRTLTSDVANLANEKEELNNKLKDVQEQLSRLKDEEISAAAIKAQFEKQLLTERTLKTQAVNKLAEIMNRKEPVKRGNDTDVRRKEKENRKLHMELKSEREKLTQQMIKYQKELNEMQAQIAEESQIRIELQMTLDSKDSDIEQLRSQLQALHIGLDSSSIGSGPGDAEADDGFPESRLEGWLSLPVRNNTKKFGWVKKYVIVSSKKILFYDSEQDKEQSNPYMVLDIDKLFHVRPVTQTDVYRADAKEIPRIFQILYANEGESKKEQEFPVEPVGEKSNYICHKGHEFIPTLYHFPTNCEACMKPLWHMFKPPPALECRRCHIKCHKDHMDKKEEIIAPCKVYYDISTAKNLLLLANSTEEQQKWVSRLVKKIPKKPPAPDPFARSSPRTSMKIQQNQSIRRPSRQLAPNKPS |
| 4374 | sp|Q9H9Y6|RPA2\_HUMAN | MDPGSRWRNLPSGPSLKHLTDPSYGIPREQQKAALQELTRAHVESFNYAVHEGLGLAVQAIPPFEFAFKDERISFTILDAVISPPTVPKGTICKEANVYPAECRGRRSTYRGKLTADINWAVNGISKGIIKQFLGYVPIMVKSKLCNLRNLPPQALIEHHEEAEEMGGYFIINGIEKVIRMLIMPRRNFPIAMIRPKWKTRGPGYTQYGVSMHCVREEHSAVNMNLHYLENGTVMLNFIYRKELFFLPLGFALKALVSFSDYQIFQELIKGKEDDSFLRNSVSQMLRIVMEEGCSTQKQVLNYLGECFRVKLNVPDWYPNEQAAEFLFNQCICIHLKSNTEKFYMLCLMTRKLFALAKGECMEDNPDSLVNQEVLTPGQLFLMFLKEKLEGWLVSIKIAFDKKAQKTSVSMNTDNLMRIFTMGIDLTKPFEYLFATGNLRSKTGLGLLQDSGLCVVADKLNFIRYLSHFRCVHRGADFAKMRTTTVRRLLPESWGFLCPVHTPDGEPCGLMNHLTAVCEVVTQFVYTASIPALLCNLGVTPIDGAPHRSYSECYPVLLDGVMVGWVDKDLAPGIADSLRHFKVLREKRIPPWMEVVLIPMTGKPSLYPGLFLFTTPCRLVRPVQNLALGKEELIGTMEQIFMNVAIFEDEVFAGVTTHQELFPHSLLSVIANFIPFSDHNQSPRNMYQCQMGKQTMGFPLLTYQDRSDNKLYRLQTPQSPLVRPSMYDYYDMDNYPIGTNAIVAVISYTGYDMEDAMIVNKASWERGFAHGSVYKSEFIDLSEKIKQGDSSLVFGIKPGDPRVLQKLDDDGLPFIGAKLQYGDPYYSYLNLNTGESFVMYYKSKENCVVDNIKVCSNDTGSGKFKCVCITMRVPRNPTIGDKFASRHGQKGILSRLWPAEDMPFTESGMVPDILFNPHGFPSRMTIGMLIESMAGKSAALHGLCHDATPFIFSEENSALEYFGEMLKAAGYNFYGTERLYSGISGLELEADIFIGVVYYQRLRHMVSDKFQVRTTGARDRVTNQPIGGRNVQGGIRFGEMERDALLAHGTSFLLHDRLFNCSDRSVAHVCVKCGSLLSPLLEKPPPSWSAMRNRKYNCTLCSRSDTIDTVSVPYVFRYFVAELAAMNIKVKLDVV |
| 4375 | sp|Q9NQ40|S52A3\_HUMAN | MAFLMHLLVCVFGMGSWVTINGLWVELPLLVMELPEGWYLPSYLTVVIQLANIGPLLVTLLHHFRPSCLSEVPIIFTLLGVGTVTCIIFAFLWNMTSWVLDGHHSIAFLVLTFFLALVDCTSSVTFLPFMSRLPTYYLTTFFVGEGLSGLLPALVALAQGSGLTTCVNVTEISDSVPSPVPTRETDIAQGVPRALVSALPGMEAPLSHLESRYLPAHFSPLVFFLLLSIMMACCLVAFFVLQRQPRCWEASVEDLLNDQVTLHSIRPREENDLGPAGTVDSSQGQGYLEEKAAPCCPAHLAFIYTLVAFVNALTNGMLPSVQTYSCLSYGPVAYHLAATLSIVANPLASLVSMFLPNRSLLFLGVLSVLGTCFGGYNMAMAVMSPCPLLQGHWGGEVLIVASWVLFSGCLSYVKVMLGVVLRDLSRSALLWCGAAVQLGSLLGALLMFPLVNVLRLFSSADFCNLHCPA |
| 4376 | sp|P17900|SAP3\_HUMAN | MQSLMQAPLLIALGLLLAAPAQAHLKKPSQLSSFSWDNCDEGKDPAVIRSLTLEPDPIIVPGNVTLSVMGSTSVPLSSPLKVDLVLEKEVAGLWIKIPCTDYIGSCTFEHFCDVLDMLIPTGEPCPEPLRTYGLPCHCPFKEGTYSLPKSEFVVPDLELPSWLTTGNYRIESVLSSSGKRLGCIKIAASLKGI |
| 4377 | sp|Q9Y676|RT18B\_HUMAN | MAASVLNTVLRRLPMLSLFRGSHRVQVPLQTLCTKAPSEEDSLSSVPISPYKDEPWKYLESEEYQERYGSRPVWADYRRNHKGGVPPQRTRKTCIRRNKVVGNPCPICRDHKLHVDFRNVKLLEQFVCAHTGIIFYAPYTGVCVKQHKRLTQAIQKARDHGLLIYHIPQVEPRDLDFSTSHGAVSATPPAPTLVSGDPWYPWYNWKQPPERELSRLRRLYQGHLQEESGPPPESMPKMPPRTPAEASSTGQTGPQSAL |
| 4378 | sp|Q3ZKN0|S27A1\_BOVIN | MRAPGAGSASVASLVLLWLLGLPWTWSTAAALGVYVGGGGWRFLRIVCKTARRDLFGLSVLIRVRLELRRHQRARHTIPQIFQAVVQRQPERLALVDAGSGACWTFAQLDAYSNAVANLFRRLGFAPGDVVAIFMEGRPEFVGLWLGLAKAGVEAALLNVNLRREPLAFCLGTSGAKALVFGGELAAAVAEMSGELGKSLVKFCSGDVGPDGVFPDTQLLDPLLKETSTAPLAQPPGKGMDDRLFYIYTSGTTGLPKAAIIVHSRYYRIAAFGHYSYSMQAADVLYDCLPLYHSAGNIMGVGQCLIYGLTVVLRKKFSASRFWDDCVKYNCTVVQYIGEICRYLLKQPVREAEGRHRVRLAVGNGLRPSIWEEFTERFGVRQIGEFYGATECNCSIANMDGKVGSRGFNSRILPHVYPIRLVKVNEDTMELLRDAQGLCIPCQTGEPGLLVGQINQQDPLRRFDGYISESATSKKIAHSVFRKGDSAYLSGDVLVMDELGYMYFRDRSGDTFRWRGENVSTTEVEGVLSRLLGQTDVAVYGVAVPGVEGKACMAAIADPHGRLSPNALYEELQKVLAPYARPIFLRLLPQVDTTGTFKIQKTRLQHEGFDPRQTSDRLFFLDLKQGHYLPLDQGVYTRICSGAFAL |
| 4379 | sp|P38255|RXT2\_YEAST | MTIRSSMKNNAELESKSVLANESNIISTFTRRIIKEKSGNYQVLKRSLDGKLIYPEATGISSNRGNKLLQRSEVVTRRDLNNSKPMIEQTVFYNGSEHRLLQTNIVTDSRRKRIKFTPDINVEPVLVGDENDIDGSEKEDENITDEYYGEEDDDDLSKLVNVKEILTPILSLGDIINHKTISRTFSSPILKNLALQIILMIEKEQMSVVRYSQFLEVFLGDHPEPIYESNLNLPSYNHNLTLPEDRGASDEDDINNKNNINEVNSNSLSTEAGHINNGMEEFGEEDPFFALPRLEQSNALLSLLPSSSGSASISTLTAAEQQQLNEEIESARQLSQIALQRNKEFIRNLQKIRKSVIKANRIRGRILNWSREYLGISDDDITIPVALRVVKRGLISATTNKTTNFEEEIENTMEDGVVDDNEPDEEANRA |
| 4380 | sp|Q75H77|SAPKA\_ORYSJ | MDRAALTVGPGMDMPIMHDGDRYELVRDIGSGNFGVARLMRSRADGQLVAVKYIERGDKIDENVQREIINHRSLRHPNIIRFKEVILTPTHLAIVMEYASGGELFERICNAGRFSEDEARFFFQQLISGVSYCHSMQVCHRDLKLENTLLDGSTAPRLKICDFGYSKSSVLHSQPKSTVGTPAYIAPEVLLKKEYDGKIADVWSCGVTLYVMLVGAYPFEDPDEPKNFRKTIQRILGVQYSIPDYVHISPECRDLIARIFVANPATRISIPEIRNHPWFLKNLPADLMDDSKMSSQYEEPEQPMQSMDEIMQILAEATIPAAGSGGINQFLNDGLDLDDDMEDLDSDPDLDVESSGEIVYAM |
| 4381 | sp|O15027|SC16A\_HUMAN | MQPPPQTVPSGMAGPPPAGNPRSVFWASSPYRRRANNNAAVAPTTCPLQPVTDPFAFSRQALQSTPLGSSSKSSPPVLQGPAPAGFSQHPGLLVPHTHARDSSQGPCEPLPGPLTQPRAHASPFSGALTPSAPPGPEMNRSAEVGPSSEPEVQTLPYLPHYIPGVDPETSHGGHPHGNMPGLDRPLSRQNPHDGVVTPAASPSLPQPGLQMPGQWGPVQGGPQPSGQHRSPCPEGPVPSGVPCATSVPHFPTPSILHQGPGHEQHSPLVAPPAALPSDGRDEVSHLQSGSHLANNSDPESTFRQNPRIVNHWASPELRQNPGVKNEHRPASALVNPLARGDSPENRTHHPLGAGAGSGCAPLEADSGASGALAMFFQGGETENEENLSSEKAGLSGQADFDDFCSSPGLGRPPAPTHVGAGSLCQALLPGPSNEAAGDVWGDTASTGVPDASGSQYENVENLEFVQNQEVLPSEPLNLDPSSPSDQFRYGPLPGPAVPRHGAVCHTGAPDATLHTVHPDSVSSSYSSRSHGRLSGSARPQELVGTFIQQEVGKPEDEASGSFFKQIDSSPVGGETDETTVSQNYRGSVSQPSTPSPPKPTGIFQTSANSSFEPVKSHLVGVKPFEADRANVVGEVRETCVRQKQCRPAAALPDASPGNLEQPPDNMETLCAPQVCPLPLNSTTEAVHMLPHAGAPPLDTVYPAPEKRPSARTQGPVKCESPATTLWAQSELPDFGGNVLLAPAAPALYVCAKPQPPVVQPPEEAMSGQQSRNPSSAAPVQSRGGIGASENLENPPKMGEEEALQSQASSGYASLLSSPPTESLQNPPVLIAQPDHSYNLAQPINFSVSLSNSHEKNQSWREALVGDRPAVSSWALGGDSGENTSLSGIPTSSVLSLSLPSSVAQSNFPQGSGASEMVSNQPANLLVQPPSQPVPENLVPESQKDRKAGSALPGFANSPAGSTSVVLVPPAHGTLVPDGNKANHSSHQEDTYGALDFTLSRTLENPVNVYNPSHSDSLASQQSVASHPRQSGPGAPNLDRFYQQVTKDAQGQPGLERAQQELVPPQQQASPPQLPKAMFSELSNPESLPAQGQAQNSAQSPASLVLVDAGQQLPPRPPQSSSVSLVSSGSGQAAVPSEQPWPQPVPALAPGPPPQDLAAYYYYRPLYDAYQPQYSLPYPPEPGAASLYYQDVYSLYEPRYRPYDGAASAYAQNYRYPEPERPSSRASHSSERPPPRQGYPEGYYSSKSGWSSQSDYYASYYSSQYDYGDPGHWDRYHYSARVRDPRTYDRRYWCDAEYDAYRREHSAFGDRPEKRDNNWRYDPRFTGSFDDDPDPHRDPYGEEVDRRSVHSEHSARSLHSAHSLASRRSSLSSHSHQSQIYRSHNVAAGSYEAPLPPGSFHGDFAYGTYRSNFSSGPGFPEYGYPADTVWPAMEQVSSRPTSPEKFSVPHVCARFGPGGQLIKVIPNLPSEGQPALVEVHSMEALLQHTSEQEEMRAFPGPLAKDDTHKVDVINFAQNKAMKCLQNENLIDKESASLLWNFIVLLCRQNGTVVGTDIAELLLRDHRTVWLPGKSPNEANLIDFTNEAVEQVEEEESGEAQLSFLTGGPAAAASSLERETERFRELLLYGRKKDALESAMKNGLWGHALLLASKMDSRTHARVMTRFANSLPINDPLQTVYQLMSGRMPAASTCCGDEKWGDWRPHLAMVLSNLNNNMDVESRTMATMGDTLASRGLLDAAHFCYLMAQAGFGVYTKKTTKLVLIGSNHSLPFLKFATNEAIQRTEAYEYAQSLGAETCPLPSFQVFKFIYSCRLAEMGLATQAFHYCEAIAKSILTQPHLYSPVLISQLVQMASQLRLFDPQLKEKPEEESLAAPTWLVHLQQVERQIKEGAGVWHQDGALPQQCPGTPSSEMEQLDRPGLSQPGALGIANPLLAVPAPSPEHSSPSVRLLPSAPQTLPDGPLASPARVPMFPVPLPPGPLEPGPGCVTPGPALGFLEPSGPGLPPGVPPLQERRHLLQEARSPDPGIVPQEAPVGNSLSELSEENFDGKFANLTPSRTVPDSEAPPGWDRADSGPTQPPLSLSPAPETKRPGQAAKKETKEPKKGESWFFRWLPGKKKTEAYLPDDKNKSIVWDEKKNQWVNLNEPEEEKKAPPPPPTSMPKTVQAAPPALPGPPGAPVNMYSRRAAGTRARYVDVLNPSGTQRSEPALAPADFVAPLAPLPIPSNLFVPTPDAEEPQLPDGTGREGPAAARGLANPEPAPEPKVLSSAASLPGSELPSSRPEGSQGGELSRCSSMSSLSREVSQHFNQAPGDLPAAGGPPSGAMPFYNPAQLAQACATSGSSRLGRIGQRKHLVLN |
| 4382 | sp|Q92736|RYR2\_HUMAN | MADGGEGEDEIQFLRTDDEVVLQCTATIHKEQQKLCLAAEGFGNRLCFLESTSNSKNVPPDLSICTFVLEQSLSVRALQEMLANTVEKSEGQVDVEKWKFMMKTAQGGGHRTLLYGHAILLRHSYSGMYLCCLSTSRSSTDKLAFDVGLQEDTTGEACWWTIHPASKQRSEGEKVRVGDDLILVSVSSERYLHLSYGNGSLHVDAAFQQTLWSVAPISSGSEAAQGYLIGGDVLRLLHGHMDECLTVPSGEHGEEQRRTVHYEGGAVSVHARSLWRLETLRVAWSGSHIRWGQPFRLRHVTTGKYLSLMEDKNLLLMDKEKADVKSTAFTFRSSKEKLDVGVRKEVDGMGTSEIKYGDSVCYIQHVDTGLWLTYQSVDVKSVRMGSIQRKAIMHHEGHMDDGISLSRSQHEESRTARVIRSTVFLFNRFIRGLDALSKKAKASTVDLPIESVSLSLQDLIGYFHPPDEHLEHEDKQNRLRALKNRQNLFQEEGMINLVLECIDRLHVYSSAAHFADVAGREAGESWKSILNSLYELLAALIRGNRKNCAQFSGSLDWLISRLERLEASSGILEVLHCVLVESPEALNIIKEGHIKSIISLLDKHGRNHKVLDVLCSLCVCHGVAVRSNQHLICDNLLPGRDLLLQTRLVNHVSSMRPNIFLGVSEGSAQYKKWYYELMVDHTEPFVTAEATHLRVGWASTEGYSPYPGGGEEWGGNGVGDDLFSYGFDGLHLWSGCIARTVSSPNQHLLRTDDVISCCLDLSAPSISFRINGQPVQGMFENFNIDGLFFPVVSFSAGIKVRFLLGGRHGEFKFLPPPGYAPCYEAVLPKEKLKVEHSREYKQERTYTRDLLGPTVSLTQAAFTPIPVDTSQIVLPPHLERIREKLAENIHELWVMNKIELGWQYGPVRDDNKRQHPCLVEFSKLPEQERNYNLQMSLETLKTLLALGCHVGISDEHAEDKVKKMKLPKNYQLTSGYKPAPMDLSFIKLTPSQEAMVDKLAENAHNVWARDRIRQGWTYGIQQDVKNRRNPRLVPYTLLDDRTKKSNKDSLREAVRTLLGYGYNLEAPDQDHAARAEVCSGTGERFRIFRAEKTYAVKAGRWYFEFETVTAGDMRVGWSRPGCQPDQELGSDERAFAFDGFKAQRWHQGNEHYGRSWQAGDVVGCMVDMNEHTMMFTLNGEILLDDSGSELAFKDFDVGDGFIPVCSLGVAQVGRMNFGKDVSTLKYFTICGLQEGYEPFAVNTNRDITMWLSKRLPQFLQVPSNHEHIEVTRIDGTIDSSPCLKVTQKSFGSQNSNTDIMFYRLSMPIECAEVFSKTVAGGLPGAGLFGPKNDLEDYDADSDFEVLMKTAHGHLVPDRVDKDKEATKPEFNNHKDYAQEKPSRLKQRFLLRRTKPDYSTSHSARLTEDVLADDRDDYDFLMQTSTYYYSVRIFPGQEPANVWVGWITSDFHQYDTGFDLDRVRTVTVTLGDEKGKVHESIKRSNCYMVCAGESMSPGQGRNNNGLEIGCVVDAASGLLTFIANGKELSTYYQVEPSTKLFPAVFAQATSPNVFQFELGRIKNVMPLSAGLFKSEHKNPVPQCPPRLHVQFLSHVLWSRMPNQFLKVDVSRISERQGWLVQCLDPLQFMSLHIPEENRSVDILELTEQEELLKFHYHTLRLYSAVCALGNHRVAHALCSHVDEPQLLYAIENKYMPGLLRAGYYDLLIDIHLSSYATARLMMNNEYIVPMTEETKSITLFPDENKKHGLPGIGLSTSLRPRMQFSSPSFVSISNECYQYSPEFPLDILKSKTIQMLTEAVKEGSLHARDPVGGTTEFLFVPLIKLFYTLLIMGIFHNEDLKHILQLIEPSVFKEAATPEEESDTLEKELSVDDAKLQGAGEEEAKGGKRPKEGLLQMKLPEPVKLQMCLLLQYLCDCQVRHRIEAIVAFSDDFVAKLQDNQRFRYNEVMQALNMSAALTARKTKEFRSPPQEQINMLLNFKDDKSECPCPEEIRDQLLDFHEDLMTHCGIELDEDGSLDGNSDLTIRGRLLSLVEKVTYLKKKQAEKPVESDSKKSSTLQQLISETMVRWAQESVIEDPELVRAMFVLLHRQYDGIGGLVRALPKTYTINGVSVEDTINLLASLGQIRSLLSVRMGKEEEKLMIRGLGDIMNNKVFYQHPNLMRALGMHETVMEVMVNVLGGGESKEITFPKMVANCCRFLCYFCRISRQNQKAMFDHLSYLLENSSVGLASPAMRGSTPLDVAAASVMDNNELALALREPDLEKVVRYLAGCGLQSCQMLVSKGYPDIGWNPVEGERYLDFLRFAVFCNGESVEENANVVVRLLIRRPECFGPALRGEGGNGLLAAMEEAIKIAEDPSRDGPSPNSGSSKTLDTEEEEDDTIHMGNAIMTFYSALIDLLGRCAPEMHLIHAGKGEAIRIRSILRSLIPLGDLVGVISIAFQMPTIAKDGNVVEPDMSAGFCPDHKAAMVLFLDRVYGIEVQDFLLHLLEVGFLPDLRAAASLDTAALSATDMALALNRYLCTAVLPLLTRCAPLFAGTEHHASLIDSLLHTVYRLSKGCSLTKAQRDSIEVCLLSICGQLRPSMMQHLLRRLVFDVPLLNEHAKMPLKLLTNHYERCWKYYCLPGGWGNFGAASEEELHLSRKLFWGIFDALSQKKYEQELFKLALPCLSAVAGALPPDYMESNYVSMMEKQSSMDSEGNFNPQPVDTSNITIPEKLEYFINKYAEHSHDKWSMDKLANGWIYGEIYSDSSKVQPLMKPYKLLSEKEKEIYRWPIKESLKTMLAWGWRIERTREGDSMALYNRTRRISQTSQVSVDAAHGYSPRAIDMSNVTLSRDLHAMAEMMAENYHNIWAKKKKMELESKGGGNHPLLVPYDTLTAKEKAKDREKAQDILKFLQINGYAVSRGFKDLELDTPSIEKRFAYSFLQQLIRYVDEAHQYILEFDGGSRGKGEHFPYEQEIKFFAKVVLPLIDQYFKNHRLYFLSAASRPLCSGGHASNKEKEMVTSLFCKLGVLVRHRISLFGNDATSIVNCLHILGQTLDARTVMKTGLESVKSALRAFLDNAAEDLEKTMENLKQGQFTHTRNQPKGVTQIINYTTVALLPMLSSLFEHIGQHQFGEDLILEDVQVSCYRILTSLYALGTSKSIYVERQRSALGECLAAFAGAFPVAFLETHLDKHNIYSIYNTKSSRERAALSLPTNVEDVCPNIPSLEKLMEEIVELAESGIRYTQMPHVMEVILPMLCSYMSRWWEHGPENNPERAEMCCTALNSEHMNTLLGNILKIIYNNLGIDEGAWMKRLAVFSQPIINKVKPQLLKTHFLPLMEKLKKKAATVVSEEDHLKAEARGDMSEAELLILDEFTTLARDLYAFYPLLIRFVDYNRAKWLKEPNPEAEELFRMVAEVFIYWSKSHNFKREEQNFVVQNEINNMSFLITDTKSKMSKAAVSDQERKKMKRKGDRYSMQTSLIVAALKRLLPIGLNICAPGDQELIALAKNRFSLKDTEDEVRDIIRSNIHLQGKLEDPAIRWQMALYKDLPNRTDDTSDPEKTVERVLDIANVLFHLEQKSKRVGRRHYCLVEHPQRSKKAVWHKLLSKQRKRAVVACFRMAPLYNLPRHRAVNLFLQGYEKSWIETEEHYFEDKLIEDLAKPGAEPPEEDEGTKRVDPLHQLILLFSRTALTEKCKLEEDFLYMAYADIMAKSCHDEEDDDGEEEVKSFEEKEMEKQKLLYQQARLHDRGAAEMVLQTISASKGETGPMVAATLKLGIAILNGGNSTVQQKMLDYLKEKKDVGFFQSLAGLMQSCSVLDLNAFERQNKAEGLGMVTEEGSGEKVLQDDEFTCDLFRFLQLLCEGHNSDFQNYLRTQTGNNTTVNIIISTVDYLLRVQESISDFYWYYSGKDVIDEQGQRNFSKAIQVAKQVFNTLTEYIQGPCTGNQQSLAHSRLWDAVVGFLHVFAHMQMKLSQDSSQIELLKELMDLQKDMVVMLLSMLEGNVVNGTIGKQMVDMLVESSNNVEMILKFFDMFLKLKDLTSSDTFKEYDPDGKGVISKRDFHKAMESHKHYTQSETEFLLSCAETDENETLDYEEFVKRFHEPAKDIGFNVAVLLTNLSEHMPNDTRLQTFLELAESVLNYFQPFLGRIEIMGSAKRIERVYFEISESSRTQWEKPQVKESKRQFIFDVVNEGGEKEKMELFVNFCEDTIFEMQLAAQISESDLNERSANKEESEKERPEEQGPRMAFFSILTVRSALFALRYNILTLMRMLSLKSLKKQMKKVKKMTVKDMVTAFFSSYWSIFMTLLHFVASVFRGFFRIICSLLLGGSLVEGAKKIKVAELLANMPDPTQDEVRGDGEEGERKPLEAALPSEDLTDLKELTEESDLLSDIFGLDLKREGGQYKLIPHNPNAGLSDLMSNPVPMPEVQEKFQEQKAKEEEKEEKEETKSEPEKAEGEDGEKEEKAKEDKGKQKLRQLHTHRYGEPEVPESAFWKKIIAYQQKLLNYFARNFYNMRMLALFVAFAINFILLFYKVSTSSVVEGKELPTRSSSENAKVTSLDSSSHRIIAVHYVLEESSGYMEPTLRILAILHTVISFFCIIGYYCLKVPLVIFKREKEVARKLEFDGLYITEQPSEDDIKGQWDRLVINTQSFPNNYWDKFVKRKVMDKYGEFYGRDRISELLGMDKAALDFSDAREKKKPKKDSSLSAVLNSIDVKYQMWKLGVVFTDNSFLYLAWYMTMSVLGHYNNFFFAAHLLDIAMGFKTLRTILSSVTHNGKQLVLTVGLLAVVVYLYTVVAFNFFRKFYNKSEDGDTPDMKCDDMLTCYMFHMYVGVRAGGGIGDEIEDPAGDEYEIYRIIFDITFFFFVIVILLAIIQGLIIDAFGELRDQQEQVKEDMETKCFICGIGNDYFDTVPHGFETHTLQEHNLANYLFFLMYLINKDETEHTGQESYVWKMYQERCWEFFPAGDCFRKQYEDQLN |
| 4383 | sp|Q9BST9|RTKN\_HUMAN | MFSRNHRSRVTVARGSALEMEFKRGRFRLSLFSDLPEDTELQRKLDHEIRMREGACKLLAACSQREQALEATKSLLVCNSRILSYMGELQRRKEAQVLGKTSRRPSDSGPPAERSPCRGRVCISDLRIPLMWKDTEYFKNKGDLHRWAVFLLLQLGEHIQDTEMILVDRTLTDISFQSNVLFAEAGPDFELRLELYGACVEEEGALTGGPKRLATKLSSSLGRSSGRRVRASLDSAGGSGSSPILLPTPVVGGPRYHLLAHTTLTLAAVQDGFRTHDLTLASHEENPAWLPLYGSVCCRLAAQPLCMTQPTASGTLRVQQAGEMQNWAQVHGVLKGTNLFCYRQPEDADTGEEPLLTIAVNKETRVRAGELDQALGRPFTLSISNQYGDDEVTHTLQTESREALQSWMEALWQLFFDMSQWKQCCDEIMKIETPAPRKPPQALAKQGSLYHEMAIEPLDDIAAVTDILTQREGARLETPPPWLAMFTDQPALPNPCSPASVAPAPDWTHPLPWGRPRTFSLDAVPPDHSPRARSVAPLPPQRSPRTRGLCSKGQPRTWLQSPV |
| 4384 | sp|P46850|RTCB\_ECOLI | MNYELLTTENAPVKMWTKGVPVEADARQQLINTAKMPFIFKHIAVMPDVHLGKGSTIGSVIPTKGAIIPAAVGVDIGCGMNALRTALTAEDLPENLAELRQAIETAVPHGRTTGRCKRDKGAWENPPVNVDAKWAELEAGYQWLTQKYPRFLNTNNYKHLGTLGTGNHFIEICLDESDQVWIMLHSGSRGIGNAIGTYFIDLAQKEMQETLETLPSRDLAYFMEGTEYFDDYLKAVAWAQLFASLNRDAMMENVVTALQSITQKTVRQPQTLAMEEINCHHNYVQKEQHFGEEIYVTRKGAVSARAGQYGIIPGSMGAKSFIVRGLGNEESFCSCSHGAGRVMSRTKAKKLFSVEDQIRATAHVECRKDAEVIDEIPMAYKDIDAVMAAQSDLVEVIYTLRQVVCVKG |
| 4385 | sp|Q9HBV2|SACA1\_HUMAN | MSPRGTGCSAGLLMTVGWLLLAGLQSARGTNVTAAVQDAGLAHEGEGEEETENNDSETAENYAPPETEDVSNRNVVKEVEFGMCTVTCGIGVREVILTNGCPGGESKCVVRVEECRGPTDCGWGKPISESLESVRLACIHTSPLNRFKYMWKLLRQDQQSIILVNDSAILEVRKESHPLAFECDTLDNNEIVATIKFTVYTSSELQMRRSSLPATDAALIFVLTIGVIICVFIIFLLIFIIINWAAVKAFWGAKASTPEVQSEQSSVRYKDSTSLDQLPTEMPGEDDALSEWNE |
| 4386 | sp|Q8IVM8|S22A9\_HUMAN | MAFQDLLGHAGDLWRFQILQTVFLSIFAVATYLHFMLENFTAFIPGHRCWVHILDNDTVSDNDTGALSQDALLRISIPLDSNMRPEKCRRFVHPQWQLLHLNGTFPNTSDADMEPCVDGWVYDRISFSSTIVTEWDLVCDSQSLTSVAKFVFMAGMMVGGILGGHLSDRFGRRFVLRWCYLQVAIVGTCAALAPTFLIYCSLRFLSGIAAMSLITNTIMLIAEWATHRFQAMGITLGMCPSGIAFMTLAGLAFAIRDWHILQLVVSVPYFVIFLTSSWLLESARWLIINNKPEEGLKELRKAAHRSGMKNARDTLTLEILKSTMKKELEAAQKKKPSLCEMLHMPNICKRISLLSFTRFANFMAYFGLNLHVQHLGNNVFLLQTLFGAVILLANCVAPWALKYMNRRASQMLLMFLLAICLLAIIFVPQEMQTLREVLATLGLGASALANTLAFAHGNEVIPTIIRARAMGINATFANIAGALAPLMMILSVYSPPLPWIIYGVFPFISGFAFLLLPETRNKPLFDTIQDEKNERKDPREPKQEDPRVEVTQF |
| 4387 | sp|Q13433|S39A6\_HUMAN | MARKLSVILILTFALSVTNPLHELKAAAFPQTTEKISPNWESGINVDLAISTRQYHLQQLFYRYGENNSLSVEGFRKLLQNIGIDKIKRIHIHHDHDHHSDHEHHSDHERHSDHEHHSEHEHHSDHDHHSHHNHAASGKNKRKALCPDHDSDSSGKDPRNSQGKGAHRPEHASGRRNVKDSVSASEVTSTVYNTVSEGTHFLETIETPRPGKLFPKDVSSSTPPSVTSKSRVSRLAGRKTNESVSEPRKGFMYSRNTNENPQECFNASKLLTSHGMGIQVPLNATEFNYLCPAIINQIDARSCLIHTSEKKAEIPPKTYSLQIAWVGGFIAISIISFLSLLGVILVPLMNRVFFKFLLSFLVALAVGTLSGDAFLHLLPHSHASHHHSHSHEEPAMEMKRGPLFSHLSSQNIEESAYFDSTWKGLTALGGLYFMFLVEHVLTLIKQFKDKKKKNQKKPENDDDVEIKKQLSKYESQLSTNEEKVDTDDRTEGYLRADSQEPSHFDSQQPAVLEEEEVMIAHAHPQEVYNEYVPRGCKNKCHSHFHDTLGQSDDLIHHHHDYHHILHHHHHQNHHPHSHSQRYSREELKDAGVATLAWMVIMGDGLHNFSDGLAIGAAFTEGLSSGLSTSVAVFCHELPHELGDFAVLLKAGMTVKQAVLYNALSAMLAYLGMATGIFIGHYAENVSMWIFALTAGLFMYVALVDMVPEMLHNDASDHGCSRWGYFFLQNAGMLLGFGIMLLISIFEHKIVFRINF |
| 4388 | sp|Q15424|SAFB1\_HUMAN | MAETLSGLGDSGAAGAAALSSASSETGTRRLSDLRVIDLRAELRKRNVDSSGNKSVLMERLKKAIEDEGGNPDEIEITSEGNKKTSKRSSKGRKPEEEGVEDNGLEENSGDGQEDVETSLENLQDIDIMDISVLDEAEIDNGSVADCVEDDDADNLQESLSDSRELVEGEMKELPEQLQEHAIEDKETINNLDTSSSDFTILQEIEEPSLEPENEKILDILGETCKSEPVKEESSELEQPFAQDTSSVGPDRKLAEEEDLFDSAHPEEGDLDLASESTAHAQSSKADSLLAVVKREPAEQPGDGERTDCEPVGLEPAVEQSSAASELAEASSEELAEAPTEAPSPEARDSKEDGRKFDFDACNEVPPAPKESSTSEGADQKMSSPEDDSDTKRLSKEEKGRSSCGRNFWVSGLSSTTRATDLKNLFSKYGKVVGAKVVTNARSPGARCYGFVTMSTAEEATKCINHLHKTELHGKMISVEKAKNEPVGKKTSDKRDSDGKKEKSSNSDRSTNLKRDDKCDRKDDAKKGDDGSGEKSKDQDDQKPGPSERSRATKSGSRGTERTVVMDKSKGVPVISVKTSGSKERASKSQDRKSASREKRSVVSFDKVKEPRKSRDSESHSRVRERSEREQRMQAQWEREERERLEIARERLAFQRQRLERERMERERLERERMHVEHERRREQERIHREREELRRQQELRYEQERRPAVRRPYDLDRRDDAYWPEAKRAALDERYHSDFNRQDRFHDFDHRDRGRYPDHSVDRREGSRSMMGEREGQHYPERHGGPERHGRDSRDGWGGYGSDKRMSEGRGLPPPPRRDWGDHGRREDDRSWQGTADGGMMDRDHKRWQGGERSMSGHSGPGHMMNRGGMSGRGSFAPGGASRGHPIPHGGMQGGFGGQSRGSRPSDARFTRRY |
| 4389 | sp|P56221|SCYD\_MAGO7 | MGSQVQKSDEITFSDYLGLMTCVYEWADSYDSKDWDRLRKVIAPTLRIDYRSFLDKLWEAMPAEEFVGMVSSKQVLGDPTLRTQHFIGGTRWEKVSEDEVIGYHQLRVPHQRYKDTTMKEVTMKGHAHSANLHWYKKIDGVWKFAGLKPDIRWGEFDFDRIFEDGRETFGDK |
| 4390 | sp|Q09898|SID2\_SCHPO | MNRVNDMSPVEGDLGLQLSSEADKKFDAYMKRHGLFEPGNLSNNDKERNLEDQFNSMKLSPVASSKENYPDNHMHSKHISKLPIASPIPRGLDRSGELSYKDNNHWSDRSSTGSPRWENGSMNLSVEEMEKVVQPKVKRMATICQMFFLDHYFEQLHYLYTRKQRARLFEEQLLKEPDSRRDELVKRYNGRERVYLRKRRTRISHGDFQTITQVGQGGYGSVWLARKRDTKEIVALKIMNKSVLHKMDEIRHVLTERDILTTANSEWLVRLLYAFQDTSNIYLAMEFVPGGDFRTLLSNSGVLRDHHAKFYATEMFLAIDALHQLGYIHRDLKPENFLVGASGHIKLTDFGLSSGIISKKKIESMKIRLQEVNNVVVPERSMRERRQVFRTLLSQDPVYAHSVVGSPDYMAPEVLRGENYNHSVDYWSLGCIMYECLSGFPPFSGSNVNETWSNLKNWRKCFQRPHYDDPRDLEFNWRDDAWDFVCHCITDPKDRFCSLKQVMQHPYFSKIDWKNVRTAYRPPFVPDLNSEIDAGYFDDFTNENDMSKYKEVHEKQAAIANMVNTFNKPKRNAFIGFTFRHQKNSHPTSSSSALSSPLSAPSFGTLL |
| 4391 | sp|Q8IX30|SCUB3\_HUMAN | MGSGRVPGLCLLVLLVHARAAQYSKAAQDVDECVEGTDNCHIDAICQNTPRSYKCICKSGYTGDGKHCKDVDECEREDNAGCVHDCVNIPGNYRCTCYDGFHLAHDGHNCLDVDECAEGNGGCQQSCVNMMGSYECHCREGFFLSDNQHTCIQRPEEGMNCMNKNHGCAHICRETPKGGIACECRPGFELTKNQRDCKLTCNYGNGGCQHTCDDTEQGPRCGCHIKFVLHTDGKTCIETCAVNNGGCDSKCHDAATGVHCTCPVGFMLQPDRKTCKDIDECRLNNGGCDHICRNTVGSFECSCKKGYKLLINERNCQDIDECSFDRTCDHICVNTPGSFQCLCHRGYLLYGITHCGDVDECSINRGGCRFGCINTPGSYQCTCPAGQGRLHWNGKDCTEPLKCQGSPGASKAMLSCNRSGKKDTCALTCPSRARFLPESENGFTVSCGTPSPRAAPARAGHNGNSTNSNHCHEAAVLSIKQRASFKIKDAKCRLHLRNKGKTEEAGRITGPGGAPCSECQVTFIHLKCDSSRKGKGRRARTPPGKEVTRLTLELEAEVRAEETTASCGLPCLRQRMERRLKGSLKMLRKSINQDRFLLRLAGLDYELAHKPGLVAGERAEPMESCRPGQHRAGTKCVSCPQGTYYHGQTEQCVPCPAGTFQEREGQLSCDLCPGSDAHGPLGATNVTTCAGQCPPGQHSVDGFKPCQPCPRGTYQPEAGRTLCFPCGGGLTTKHEGAISFQDCDTKVQCSPGHYYNTSIHRCIRCAMGSYQPDFRQNFCSRCPGNTSTDFDGSTSVAQCKNRQCGGELGEFTGYIESPNYPGNYPAGVECIWNINPPPKRKILIVVPEIFLPSEDECGDVLVMRKNSSPSSITTYETCQTYERPIAFTARSRKLWINFKTSEANSARGFQIPYVTYDEDYEQLVEDIVRDGRLYASENHQEILKDKKLIKAFFEVLAHPQNYFKYTEKHKEMLPKSFIKLLRSKVSSFLRPYK |
| 4392 | sp|P57086|SCND1\_HUMAN | MAATEPILAATGSPAAVPPEKLEGAGSSSAPERNCVGSSLPEASPPAPEPSSPNAAVPEAIPTPRAAASAALELPLGPAPVSVAPQAEAEARSTPGPAGSRLGPETFRQRFRQFRYQDAAGPREAFRQLRELSRQWLRPDIRTKEQIVEMLVQEQLLAILPEAARARRIRRRTDVRITG |
| 4393 | sp|P52839|SOT12\_ARATH | MSSSSSVPAYLGDEDLTQETRALISSLPKEKGWLVSEIYEFQGLWHTQAILQGILICQKRFEAKDSDIILVTNPKSGTTWLKALVFALLNRHKFPVSSSGNHPLLVTNPHLLVPFLEGVYYESPDFDFSSLPSPRLMNTHISHLSLPESVKSSSCKIVYCCRNPKDMFVSLWHFGKKLAPEETADYPIEKAVEAFCEGKFIGGPFWDHILEYWYASRENPNKVLFVTYEELKKQTEVEMKRIAEFLECGFIEEEEVREIVKLCSFESLSNLEVNKEGKLPNGIETKTFFRKGEIGGWRDTLSESLAEEIDRTIEEKFKGSGLKFSS |
| 4394 | sp|Q15797|SMAD1\_HUMAN | MNVTSLFSFTSPAVKRLLGWKQGDEEEKWAEKAVDALVKKLKKKKGAMEELEKALSCPGQPSNCVTIPRSLDGRLQVSHRKGLPHVIYCRVWRWPDLQSHHELKPLECCEFPFGSKQKEVCINPYHYKRVESPVLPPVLVPRHSEYNPQHSLLAQFRNLGQNEPHMPLNATFPDSFQQPNSHPFPHSPNSSYPNSPGSSSSTYPHSPTSSDPGSPFQMPADTPPPAYLPPEDPMTQDGSQPMDTNMMAPPLPSEINRGDVQAVAYEEPKHWCSIVYYELNNRVGEAFHASSTSVLVDGFTDPSNNKNRFCLGLLSNVNRNSTIENTRRHIGKGVHLYYVGGEVYAECLSDSSIFVQSRNCNYHHGFHPTTVCKIPSGCSLKIFNNQEFAQLLAQSVNHGFETVYELTKMCTIRMSFVKGWGAEYHRQDVTSTPCWIEIHLHGPLQWLDKVLTQMGSPHNPISSVS |
| 4395 | sp|O95149|SPN1\_HUMAN | MEELSQALASSFSVSQDLNSTAAPHPRLSQYKSKYSSLEQSERRRRLLELQKSKRLDYVNHARRLAEDDWTGMESEEENKKDDEEMDIDTVKKLPKHYANQLMLSEWLIDVPSDLGQEWIVVVCPVGKRALIVASRGSTSAYTKSGYCVNRFSSLLPGGNRRNSTAKDYTILDCIYNEVNQTYYVLDVMCWRGHPFYDCQTDFRFYWMHSKLPEEEGLGEKTKLNPFKFVGLKNFPCTPESLCDVLSMDFPFEVDGLLFYHKQTHYSPGSTPLVGWLRPYMVSDVLGVAVPAGPLTTKPDYAGHQLQQIMEHKKSQKEGMKEKLTHKASENGHYELEHLSTPKLKGSSHSPDHPGCLMEN |
| 4396 | sp|Q9Y5W9|SNX11\_HUMAN | MGFWCRMSENQEQEEVITVRVQDPRVQNEGSWNSYVDYKIFLHTNSKAFTAKTSCVRRRYREFVWLRKQLQRNAGLVPVPELPGKSTFFGTSDEFIEKRRQGLQHFLEKVLQSVVLLSDSQLHLFLQSQLSVPEIEACVQGRSTMTVSDAILRYAMSNCGWAQEERQSSSHLAKGDQPKSCCFLPRSGRRSSPSPPPSEEKDHLEVWAPVVDSEVPSLESPTLPPLSSPLCCDFGRPKEGTSTLQSVRRAVGGDHAVPLDPGQLETVLEK |
| 4397 | sp|Q96AH0|SOSB2\_HUMAN | MNRVNDPLIFIRDIKPGLKNLNVVFIVLEIGRVTKTKDGHEVRSCKVADKTGSITISVWDEIGGLIQPGDIIRLTRGYASMWKGCLTLYTGRGGELQKIGEFCMVYSEVPNFSEPNPDYRGQQNKGAQSEQKNNSMNSNMGTGTFGPVGNGVHTGPESREHQFSHAGRSNGRGLINPQLQGTASNQTVMTTISNGRDPRRAFKR |
| 4398 | sp|Q9UGP8|SEC63\_HUMAN | MAGQQFQYDDSGNTFFYFLTSFVGLIVIPATYYLWPRDQNAEQIRLKNIRKVYGRCMWYRLRLLKPQPNIIPTVKKIVLLAGWALFLFLAYKVSKTDREYQEYNPYEVLNLDPGATVAEIKKQYRLLSLKYHPDKGGDEVMFMRIAKAYAALTDEESRKNWEEFGNPDGPQATSFGIALPAWIVDQKNSILVLLVYGLAFMVILPVVVGSWWYRSIRYSGDQILIRTTQIYTYFVYKTRNMDMKRLIMVLAGASEFDPQYNKDATSRPTDNILIPQLIREIGSINLKKNEPPLTCPYSLKARVLLLSHLARMKIPETLEEDQQFMLKKCPALLQEMVNVICQLIVMARNREEREFRAPTLASLENCMKLSQMAVQGLQQFKSPLLQLPHIEEDNLRRVSNHKKYKIKTIQDLVSLKESDRHTLLHFLEDEKYEEVMAVLGSFPYVTMDIKSQVLDDEDSNNITVGSLVTVLVKLTRQTMAEVFEKEQSICAAEEQPAEDGQGETNKNRTKGGWQQKSKGPKKTAKSKKKKPLKKKPTPVLLPQSKQQKQKQANGVVGNEAAVKEDEEEVSDKGSDSEEEETNRDSQSEKDDGSDRDSDREQDEKQNKDDEAEWQELQQSIQRKERALLETKSKITHPVYSLYFPEEKQEWWWLYIADRKEQTLISMPYHVCTLKDTEEVELKFPAPGKPGNYQYTVFLRSDSYMGLDQIKPLKLEVHEAKPVPENHPQWDTAIEGDEDQEDSEGFEDSFEEEEEEEEDDD |
| 4399 | sp|Q15796|SMAD2\_HUMAN | MSSILPFTPPVVKRLLGWKKSAGGSGGAGGGEQNGQEEKWCEKAVKSLVKKLKKTGRLDELEKAITTQNCNTKCVTIPSTCSEIWGLSTPNTIDQWDTTGLYSFSEQTRSLDGRLQVSHRKGLPHVIYCRLWRWPDLHSHHELKAIENCEYAFNLKKDEVCVNPYHYQRVETPVLPPVLVPRHTEILTELPPLDDYTHSIPENTNFPAGIEPQSNYIPETPPPGYISEDGETSDQQLNQSMDTGSPAELSPTTLSPVNHSLDLQPVTYSEPAFWCSIAYYELNQRVGETFHASQPSLTVDGFTDPSNSERFCLGLLSNVNRNATVEMTRRHIGRGVRLYYIGGEVFAECLSDSAIFVQSPNCNQRYGWHPATVCKIPPGCNLKIFNNQEFAALLAQSVNQGFEAVYQLTRMCTIRMSFVKGWGAEYRRQTVTSTPCWIELHLNGPLQWLDKVLTQMGSPSVRCSSMS |
| 4400 | sp|P26675|SOS\_DROME | MFSGPSGHAHTISYGGGIGLGTGGGGGSGGSGSGSQGGGGGIGIGGGGVAGLQDCDGYDFTKCENAARWRGLFTPSLKKVLEQVHPRVTAKEDALLYVEKLCLRLLAMLCAKPLPHSVQDVEEKVNKSFPAPIDQWALNEAKEVINSKKRKSVLPTEKVHTLLQKDVLQYKIDSSVSAFLVAVLEYISADILKMAGDYVIKIAHCEITKEDIEVVMNADRVLMDMLNQSEAHILPSPLSLPAQRASATYEETVKELIHDEKQYQRDLHMIIRVFREELVKIVSDPRELEPIFSNIMDIYEVTVTLLGSLEDVIEMSQEQSAPCVGSCFEELAEAEEFDVYKKYAYDVTSQASRDALNNLLSKPGASSLTTAGHGFRDAVKYYLPKLLLVPICHAFVYFDYIKHLKDLSSSQDDIESFEQVQGLLHPLHCDLEKVMASLSKERQVPVSGRVRRQLAIERTRELQMKVEHWEDKDVGQNCNEFIREDSLSKLGSGKRIWSERKVFLFDGLMVLCKANTKKQTPSAGATAYDYRLKEKYFMRRVDINDRPDSDDLKNSFELAPRMQPPIVLTAKNAQHKHDWMADLLMVITKSMLDRHLDSILQDIERKHPLRMPSPEIYKFAVPDSGDNIVLEERESAGVPMIKGATLCKLIERLTYHIYADPTFVRTFLTTYRYFCSPQQLLQLLVERFNIPDPSLVYQDTGTAGAGGMGGVGGDKEHKNSHREDWKRYRKEYVQPVQFRVLNVLRHWVDHHFYDFEKDPMLLEKLLNFLEHVNGKSMRKWVDSVLKIVQRKNEQEKSNKKIVYAYGHDPPPIEHHLSVPNDEITLLTLHPLELARQLTLLEFEMYKNVKPSELVGSPWTKKDKEVKSPNLLKIMKHTTNVTRWIEKSITEAENYEERLAIMQRAIEVMMVMLELNNFNGILSIVAAMGTASVYRLRWTFQGLPERYRKFLEECRELSDDHLKKYQERLRSINPPCVPFFGRYLTNILHLEEGNPDLLANTELINFSKRRKVAEIIGEIQQYQNQPYCLNEESTIRQFFEQLDPFNGLSDKQMSDYLYNESLRIEPRGCKTVPKFPRKWPHIPLKSPGIKPRRQNQTNSSSKLSNSTSSVAAAAAASSTATSIATASAPSLHASSIMDAPTAAAANAGSGTLAGEQSPQHNPHAFSVFAPVIIPERNTSSWSGTPQHTRTDQNNGEVSVPAPHLPKKPGAHVWANNNSTLASASAMDVVFSPALPEHLPPQSLPDSNPFASDTEAPPSPLPKLVVSPRHETGNRSPFHGRMQNSPTHSTASTVTLTGMSTSGGEEFCAGGFYFNSAHQGQPGAVPISPHVNVPMATNMEYRAVPPPLPPRRKERTESCADMAQKRQAPDAPTLPPRDGELSPPPIPPRLNHSTGISYLRQSHGKSKEFVGNSSLLLPNTSSIMIRRNSAIEKRAAATSQPNQAAAGPISTTLVTVSQAVATDEPLPLPISPAASSSTTTSPLTPAMSPMSPNIPSHPVESTSSSYAHQLRMRQQQQQQTHPAIYSQHHQHHATHLPHHPHQHHSNPTQSRSSPKEFFPIATSLEGTPKLPPKPSLSANFYNNPDKGTMFLYPSTNEE |
| 4401 | sp|Q9UIG8|SO3A1\_HUMAN | MQGKKPGGSSGGGRSGELQGDEAQRNKKKKKKVSCFSNIKIFLVSECALMLAQGTVGAYLVSVLTTLERRFNLQSADVGVIASSFEIGNLALILFVSYFGARGHRPRLIGCGGIVMALGALLSALPEFLTHQYKYEAGEIRWGAEGRDVCAANGSGGDEGPDPDLICRNRTATNMMYLLLIGAQVLLGIGATPVQPLGVSYIDDHVRRKDSSLYIGILFTMLVFGPACGFILGSFCTKIYVDAVFIDTSNLDITPDDPRWIGAWWGGFLLCGALLFFSSLLMFGFPQSLPPHSEPAMESEQAMLSEREYERPKPSNGVLRHPLEPDSSASCFQQLRVIPKVTKHLLSNPVFTCIILAACMEIAVVAGFAAFLGKYLEQQFNLTTSSANQLLGMTAIPCACLGIFLGGLLVKKLSLSALGAIRMAMLVNLVSTACYVSFLFLGCDTGPVAGVTVPYGNSTAPGSALDPYSPCNNNCECQTDSFTPVCGADGITYLSACFAGCNSTNLTGCACLTTVPAENATVVPGKCPSPGCQEAFLTFLCVMCICSLIGAMAQTPSVIILIRTVSPELKSYALGVLFLLLRLLGFIPPPLIFGAGIDSTCLFWSTFCGEQGACVLYDNVVYRYLYVSIAIALKSFAFILYTTTWQCLRKNYKRYIKNHEGGLSTSEFFASTLTLDNLGRDPVPANQTHRTKFIYNLEDHEWCENMESVL |
| 4402 | sp|Q7Z614|SNX20\_HUMAN | MASPEHPGSPGCMGPITQCTARTQQEAPATGPDLPHPGPDGHLDTHSGLSSNSSMTTRELQQYWQNQKCRWKHVKLLFEIASARIEERKVSKFVVYQIIVIQTGSFDNNKAVLERRYSDFAKLQKALLKTFREEIEDVEFPRKHLTGNFAEEMICERRRALQEYLGLLYAIRCVRRSREFLDFLTRPELREAFGCLRAGQYPRALELLLRVLPLQEKLTAHCPAAAVPALCAVLLCHRDLDRPAEAFAAGERALQRLQAREGHRYYAPLLDAMVRLAYALGKDFVTLQERLEESQLRRPTPRGITLKELTVREYLH |
| 4403 | sp|Q06831|SOX4\_MOUSE | MVQQTNNAENTEALLAGESSDSGAGLELGIASSPTPGSTASTGGKADDPSWCKTPSGHIKRPMNAFMVWSQIERRKIMEQSPDMHNAEISKRLGKRWKLLKDSDKIPFIQEAERLRLKHMADYPDYKYRPRKKVKSGNAGAGSAATAKPGEKGDKVAGSSGHAGSSHAGGGAGGSSKPAPKKSCGPKVAGSSVGKPHAKLVPAGGSKAAASFSPEQAALLPLGEPTAVYKVRTPSAATPAASSSPSSALATPAKHPADKKVKRVYLFGSLGASASPVGGLGASADPSDPLGLYEDGGPGCSPDGRSLSGRSSAASSPAASRSPADHRGYASLRAASPAPSSAPSHASSSLSSSSSSSSGSSSSDDEFEDDLLDLNPSSNFESMSLGSFSSSSALDRDLDFNFEPGSGSHFEFPDYCTPEVSEMISGDWLESSISNLVFTY |
| 4404 | sp|Q04886|SOX8\_MOUSE | MLDMSEARAQPPCSPSGTASSMSHVEDSDSDAPPSPAGSEGLGRAGGGGRGDTAEAADERFPACIRDAVSQVLKGYDWSLVPMPVRGGGGGTLKAKPHVKRPMNAFMVWAQAARRKLADQYPHLHNAELSKTLGKLWRLLSESEKRPFVEEAERLRVQHKKDHPDYKYQPRRRKSVKTGRSDSDSGTELGHHPGGPMYKADAVLGEAHHHSDHHTGQTHGPPTPPTTPKTDLHQASNGSKQELRLEGRRLVDSGRQNIDFSNVDISELSSEVISNMDTFDVHEFDQYLPLNGHSALPTEPSQATASGSYGGASYSHSGATGIGASPVWAHKGAPSASASPTEAGPLRPQIKTEQLSPSHYNDQSHGSPGRADYGSYSAQASVTTAASATAASSFASAQCDYTDLQASNYYSPYPGYPPSLYQYPYFHSSRRPYASPLLNGLSMPPAHSPSSNWDQPVYTTLTRP |
| 4405 | sp|Q27350|SO\_DROME | MLQHPATDFYDLAAANAAAVLTARHTPPYSPTGLSGSVALHNNNNNNSSTSNNNNSTLDIMAHNGGGAGGGLHLNSSSNGGGGGGVVSGGGSGGRENLPSFGFTQEQVACVCEVLQQAGNIERLGRFLWSLPQCDKLQLNESVLKAKAVVAFHRGQYKELYRLLEHHHFSAQNHAKLQALWLKAHYVEAEKLRGRPLGAVGKYRVRRKFPLPRTIWDGEETSYCFKEKSRSVLRDWYSHNPYPSPREKRDLAEATGLTTTQVSNWFKNRRQRDRAAEHKDGSTDKQHLDSSSDSEMEGSMLPSQSAQHQQQQQQQQHSPGNSSGNNNGLHQQQLQHVAAEQGLQHHPHQPHPASNIANVAATKSSGGGGGGGVSAAAAAQMQMPPLTAAVAYSHLHSVMGAMPMTAMYDMGEYQHL |
| 4406 | sp|Q8HXQ3|SODC\_HYLLA | MAMKAVCVLKGDSPVQGIINFEQKESNGPVKVYGRITGLTEGLHGFHVHQFGDNTQGCTSAGPHFNPLSRKHGGPKDEERHVGDLGNVTADKDGVAKVSIEDSVISLSGDHSIIGRTLVVHEKADDLGKGGNEESTKTGNAGSRLACGVIGIAQ |
| 4407 | sp|P32380|SP110\_YEAST | MDEASHLPNGSLKNMEFTPVGFIKSKRNTTQTQVVSPTKVPNANNGDENEGPVKKRQRRSIDDTIDSTRLFSEASQFDDSFPEIKANIPPSPRSGNVDKSRKRNLIDDLKKDVPMSQPLKEQEVREHQMKKERFDRALESKLLGKRHITYANSDISNKELYINEIKSLKHEIKELRKEKNDTLNNYDTLEEETDDLKNRLQALEKELDAKNKIVNSRKVDDHSGCIEEREQMERKLAELERKLKTVKDQVLELENNSDVQSLKLRSKEDELKNLMNELNELKSNAEEKDTQLEFKKNELRKRTNELNELKIKSDEMDLQLKQKQNESKRLKDELNELETKFSENGSQSSAKENELKMLKNKIAELEEEISTKNSQLIAKEGKLASLMAQLTQLESKLNQRDSQLGSREEELKKTNDKLQKDIRIAREETVSKDERIIDLQKKVKQLENDLFVIKKTHSESKTITDNELESKDKLIKILENDLKVAQEKYSKMEKELKEREFNYKISESKLEDEKTTLNEKISNLAAENSQLKNKIEDNSTATHHMKENYEKQLESLRKDIEEYKESAKDSEDKIEELKIRIAENSAKVSEKRSKDIKQKDEQISDLTQNLKLQEDEISSLKSIIDRYKKDFNQLKSEQSNIQHDLNLQILNLENKLIESEDELKSLRDSQKIEIENWKRKYNNLSLENDRLLTEKESASDKEREISILNRKLDEMDKEKWNLQESKEKYKRELQKVITANDRLRREKEELNENSNNIRIMEDKMTRIKKNYLSEITSLQEENRRLEERLILNERRKDNDSTMQLNDIISYYKLKYHSEVRHNNDLKVINDYLNKVLALGTRRLRLDTRKGEHSLNISLPDDDELDRDYYNSHVYTRYHDYEYPLRFNLNRRGPYFERRLSFKTVALLVLACVRMKRIAFYRRSDDNRLRILRDRIESSSGRISW |
| 4408 | sp|P09212|SODC\_RABIT | MATKAVCVLKGDGPVEATIHFEQKGTGPVVVKGRITGLTEGLHEFHVHQFGDNRQGCTSAGPHFNPLSKKHGGPKDEERHVGDLGNVTAGSNGVADVLIEDSVISLSGDMSVIGRTLVVHEKEDDLGKGGNDESTKTGNAGSRLACGVIGISP |
| 4409 | sp|Q9NZQ3|SPN90\_HUMAN | MYRALYAFRSAEPNALAFAAGETFLVLERSSAHWWLAARARSGETGYVPPAYLRRLQGLEQDVLQAIDRAIEAVHNTAMRDGGKYSLEQRGVLQKLIHHRKETLSRRGPSASSVAVMTSSTSDHHLDAAAARQPNGVCRAGFERQHSLPSSEHLGADGGLYQIPLPSSQIPPQPRRAAPTTPPPPVKRRDREALMASGSGGHNTMPSGGNSVSSGSSVSSTSLDTLYTSSSPSEPGSSCSPTPPPVPRRGTHTTVSQVQPPPSKASAPEPPAEEEVATGTTSASDDLEALGTLSLGTTEEKAAAEAAVPRTIGAELMELVRRNTGLSHELCRVAIGIIVGHIQASVPASSPVMEQVLLSLVEGKDLSMALPSGQVCHDQQRLEVIFADLARRKDDAQQRSWALYEDEGVIRCYLEELLHILTDADPEVCKKMCKRNEFESVLALVAYYQMEHRASLRLLLLKCFGAMCSLDAAIISTLVSSVLPVELARDMQTDTQDHQKLCYSALILAMVFSMGEAVPYAHYEHLGTPFAQFLLNIVEDGLPLDTTEQLPDLCVNLLLALNLHLPAADQNVIMAALSKHANVKIFSEKLLLLLNRGDDPVRIFKHEPQPPHSVLKFLQDVFGSPATAAIFYHTDMMALIDITVRHIADLSPGDKLRMEYLSLMHAIVRTTPYLQHRHRLPDLQAILRRILNEEETSPQCQMDRMIVREMCKEFLVLGEAPS |
| 4410 | sp|Q9HAJ7|SP30L\_HUMAN | MNGFSTEEDSREGPPAAPAAAAPGYGQSCCLIEDGERCVRPAGNASFSKRVQKSISQKKLKLDIDKSVRHLYICDFHKNFIQSVRNKRKRKTSDDGGDSPEHDTDIPEVDLFQLQVNTLRRYKRHYKLQTRPGFNKAQLAETVSRHFRNIPVNEKETLAYFIYMVKSNKSRLDQKSEGGKQLE |
| 4411 | sp|Q8TDD2|SP7\_HUMAN | MASSLLEEEVHYGSSPLAMLTAACSKFGGSSPLRDSTTLGKAGTKKPYSVGSDLSASKTMGDAYPAPFTSTNGLLSPAGSPPAPTSGYANDYPPFSHSFPGPTGTQDPGLLVPKGHSSSDCLPSVYTSLDMTHPYGSWYKAGIHAGISPGPGNTPTPWWDMHPGGNWLGGGQGQGDGLQGTLPTGPAQPPLNPQLPTYPSDFAPLNPAPYPAPHLLQPGPQHVLPQDVYKPKAVGNSGQLEGSGGAKPPRGASTGGSGGYGGSGAGRSSCDCPNCQELERLGAAAAGLRKKPIHSCHIPGCGKVYGKASHLKAHLRWHTGERPFVCNWLFCGKRFTRSDELERHVRTHTREKKFTCLLCSKRFTRSDHLSKHQRTHGEPGPGPPPSGPKELGEGRSTGEEEASQTPRPSASPATPEKAPGGSPEQSNLLEI |
| 4412 | sp|Q96JI7|SPTCS\_HUMAN | MAAEEGVASAASAGGSWGTAAMGRVLPMLLVPVPAEAMGQLGSRAQLRTQPEALGSLTAAGSLQVLSLTPGSRGGGRCCLEGPFWHFLWEDSRNSSTPTEKPKLLALGENYELLIYEFNLKDGRCDATILYSCSREALQKLIDDQDISISLLSLRILSFHNNTSLLFINKCVILHIIFPERDAAIRVLNCFTLPLPAQAVDMIIDTQLCRGILFVLSSLGWIYIFDVVDGTYVAHVDLALHKEDMCNEQQQEPAKISSFTSLKVSQDLDVAVIVSSSNSAVALNLNLYFRQHPGHLLCERILEDLPIQGPKGVDEDDPVNSAYNMKLAKFSFQIDRSWKAQLSSLNETIKNSKLEVSCCAPWFQDILHLESPESGNHSTSVQSWAFIPQDIMHGQYNVLQKDHAKTSDPGRSWKIMHISEQEEPIELKCVSVTGFTALFTWEVERMGYTITLWDLETQGMQCFSLGTKCIPVDSSGDQQLCFVLTENGLSLILFGLTQEEFLNRLMIHGSASTVDTLCHLNGWGRCSIPIHALEAGIENRQLDTVNFFLKSKENLFNPSSKSSVSDQFDHLSSHLYLRNVEELIPALDLLCSAIRESYSEPQSKHFSEQLLNLTLSFLNNQIKELFIHTEELDEHLQKGVNILTSYINELRTFMIKFPWKLTDAIDEYDVHENVPKVKESNIWKKLSFEEVIASAILNNKIPEAQTFFRIDSHSAQKLEELIGIGLNLVFDNLKKNNIKEASELLKNMGFDVKGQLLKICFYTTNKNIRDFLVEILKEKNYFSEKEKRTIDFVHQVEKLYLGHFQENMQIQSFPRYWIKEQDFFKHKSVLDSFLKYDCKDEFNKQDHRIVLNWALWWDQLTQESILLPRISPEEYKSYSPEALWRYLTARHDWLNIILWIGEFQTQHSYASLQQNKWPLLTVDVINQNTSCNNYMRNEILDKLARNGVFLASELEDFECFLLRLSRIGGVIQDTLPVQNYKTKEGWDFHSQFILYCLEHSLQHLLYVYLDCYKLSPENCPFLEKKELHEAHPWFEFLVQCRQVASNLTDPKLIFQASLANAQILIPTNQASVSSMLLEGHTLLALATTMYSPGGVSQVVQNEENENCLKKVDPQLLKMALTPYPKLKTALFPQCTPPSVLPSDITIYHLIQSLSPFDPSRLFGWQSANTLAIGDAWSHLPHFSSPDLVNKYAIVERLNFAYYLHNGRPSFAFGTFLVQELIKSKTPKQLIQQVGNEAYVIGLSSFHIPSIGAACVCFLELLGLDSLKLRVDMKVANIILSYKCRNEDAQYSFIRESVAEKLSKLADGEKTTTEELLVLLEEGTWNSIQQQEIKRLSSESSSQWALVVQFCRLHNMKLSISYLRECAKANDWLQFIIHSQLHNYHPAEVKSLIQYFSPVIQDHLRLAFENLPSVPTSKMDSDQVCNKCPQELQGSKQEMTDLFEILLQCSEEPDSWHWLLVEAVKQQAPILSVLASCLQGASAISCLCVWIITSVEDNVATEAMGHIQDSTEDHTWNLEDLSVIWRTLLTRQKSKTLIRGFQLFFKDSPLLLVMEMYELCMFFRNYKEAEAKLLEFQKSLETLNTAATKVHPVIPAMWLEDQVCFLLKLMLQQCKTQYELGKLLQLFVEREHLFSDGPDVKKLCILCQILKDTSIAINHTIITSYSIENLQHECRSILERLQTDGQFALARRVAELAELPVDNLVIKEITQEMQTLKHIEQWSLKQARIDFWKKCHENFKKNSISSKAASSFFSTQAHVACEHPTGWSSMEERHLLLTLAGHWLAQEDVVPLDKLEELEKQIWLCRITQHTLGRNQEETEPRFSRQISTSGELSFDSLASEFSFSKLAALNTSKYLELNSLPSKETCENRLDWKEQESLNFLIGRLLDDGCVHEASRVCRYFHFYNPDVALVLHCRALASGEASMEDLHPEIHALLQSAELLEEEAPDIPLRRVHSTSSLDSQKFVTVPSSNEVVTNLEVLTSKCLHGKNYCRQVLCLYDLAKELGCSYTDVAAQDGEAMLRKILASQQPDRCKRAQAFISTQGLKPDTVAELVAEEVTRELLTSSQGTGHKQMFNPTEESQTFLQLTTLCQDRTLVGMKLLDKISSVPHGELSCTTELLILAHHCFTLTCHMEGIIRVLQAAHMLTDNHLAPSEEYGLVVRLLTGIGRYNEMTYIFDLLHKKHYFEVLMRKKLDPSGTLKTALLDYIKRCRPGDSEKHNMIALCFSMCREIGENHEAAARIQLKLIESQPWEDSLKDGHQLKQLLLKALTLMLDAAESYAKDSCVRQAQHCQRLTKLITLQIHFLNTGQNTMLINLGRHKLMDCILALPRFYQASIVAEAYDFVPDWAEILYQQVILKGDFNYLEEFKQQRLLKSSIFEEISKKYKQHQPTDMVMENLKKLLTYCEDVYLYYKLAYEHKFYEIVNVLLKDPQTGCCLKDMLAG |
| 4413 | sp|P09012|SNRPA\_HUMAN | MAVPETRPNHTIYINNLNEKIKKDELKKSLYAIFSQFGQILDILVSRSLKMRGQAFVIFKEVSSATNALRSMQGFPFYDKPMRIQYAKTDSDIIAKMKGTFVERDRKREKRKPKSQETPATKKAVQGGGATPVVGAVQGPVPGMPPMTQAPRIMHHMPGQPPYMPPPGMIPPPGLAPGQIPPGAMPPQQLMPGQMPPAQPLSENPPNHILFLTNLPEETNELMLSMLFNQFPGFKEVRLVPGRHDIAFVEFDNEVQAGAARDALQGFKITQNNAMKISFAKK |
| 4414 | sp|Q8NHU3|SMS2\_HUMAN | MDIIETAKLEEHLENQPSDPTNTYARPAEPVEEENKNGNGKPKSLSSGLRKGTKKYPDYIQIAMPTESRNKFPLEWWKTGIAFIYAVFNLVLTTVMITVVHERVPPKELSPPLPDKFFDYIDRVKWAFSVSEINGIILVGLWITQWLFLRYKSIVGRRFCFIIGTLYLYRCITMYVTTLPVPGMHFQCAPKLNGDSQAKVQRILRLISGGGLSITGSHILCGDFLFSGHTVTLTLTYLFIKEYSPRHFWWYHLICWLLSAAGIICILVAHEHYTIDVIIAYYITTRLFWWYHSMANEKNLKVSSQTNFLSRAWWFPIFYFFEKNVQGSIPCCFSWPLSWPPGCFKSSCKKYSRVQKIGEDNEKST |
| 4415 | sp|P61278|SMS\_HUMAN | MLSCRLQCALAALSIVLALGCVTGAPSDPRLRQFLQKSLAAAAGKQELAKYFLAELLSEPNQTENDALEPEDLSQAAEQDEMRLELQRSANSNPAMAPRERKAGCKNFFWKTFTSC |
| 4416 | sp|P12954|SRS2\_YEAST | MSSNNDLWLHLVSQLNTQQRAAALFDYTRGLQVIAGPGTGKTKVLTSRVAYLILHHHIHPRDIIVTTFTNKAANEMKERLQEMLRGAGVNISELLIGTFHSICLKILYRFGHLVDLQKDWRIIDEKEIDVILDDMIEKVPDQIRDYASSITRKVNLCMPSKNGDEWTIHPKLIKKQISKLKSNAILPEEYILDSNHDAALGYFYQIYQSELSKKNTLDFDDLLMYTFRLLTRVRVLSNIKHVLVDEFQDTNGIQLDLMFLFAKGNHHLSRGMTIVGDPDQSIYAFRNALAHNFLEMGRKCPIEYSTIILVENYRSSQKILNTSEILITQQNKGRQNRAPLRAQFDLDFPPVYMNFPAYFLEAPSLVRELLYLKALPNLFTFNDFAILVRQRRQIKRIESALIEHRIPYKIIRGHSFWDSKETRAMLNLLKLIFSPNDKHAILASLLYPARGLGPATGEKIKNALDTLATDVSCFQILKDISSKKIMLDIPTKGRSVIADFISMIENCQLLLQSTLLGGLSDLFDKLYELSGLKYEYLYKDGKKKNDQLEKSEPNLLNARHKNIELLKNYFLALLSKSESSDKEKNEAIKAATDEAEPIENKVITPKEYLRNFFNSLSLHSDAAEEEESESNKDAKIKREKNGFVTISTIHGAKGLEWPVVFIPGCEEGIIPCVFNDDKKDESEEDEEEDQENSKKDASPKKTRVLSVEDSIDEERRMFFVAQTRAKYLLYLSNTVTVEDVDRPRIASRFLTTDLIKAMSDSQKLFESTNSIKKLYRILNKKPPAEDDKLFSLDQLRKDYNQFIENRRERMIWQGIQMNDVYGIQLSRNKLLGSVSDFTSAADQLRLETQNSIFPQKKLIEKSRPSKINGNYAPKSRVKSPEKRYAPETTSFHSPTKKKVYAPQYVSTTNVPSRQEFHSSTGKNIPFLRREDRSITDISPRSSTRSLKGASPNKTSHMSDDLMRPSPTRKDKVTRNIHFATAGTFRIETQSNVDELHPPEYSNKSGQSLTSSEFSGFSSACSNSDQPTNLIEDINNELDLSDEELLNDISIERRRELLGSKKTKKIKPKTRNRKSKRGDKVKVEEVIDLKSEFEEDDSRNTTAAELLHNPDDTTVDNRPIISNAKFLADAAMKKTQKFSKKVKNEPASSQMDIFSQLSRAKKKSKLNNGEIIVID |
| 4417 | sp|P35207|SKI2\_YEAST | MSEGFSSSSIQELYQSLKEITNNADVELFEDRITKLDFESTDEPKHANDIIKDRFLRPSNALPWSLLDMVQDVPHTSSPEDCSGKLDYKELLKVPDPINRTSYQFKRTGLEGKISGYKEEVDLKEVANANASNSLSITRSINHNQNSVRGSTAQLPFTPGGIPMKSVKTDSEQNGSSTMANATKLLHKDGQGLFDIPEGMNRGIKPMDSPAENEDQNGQFKELKQLNEIDNELDIRIEANEAKLKEEEKSAKSISEEIMEEATEETTADNADDAEIDELLPIGIDFGRTKPVSKSVPVKKEWAHVVDLNHKIENFDELIPNPARSWPFELDTFQKEAVYHLEQGDSVFVAAHTSAGKTVVAEYAIAMAHRNMTKTIYTSPIKALSNQKFRDFKETFDDVNIGLITGDVQINPDANCLIMTTEILRSMLYRGADLIRDVEFVIFDEVHYVNDQDRGVVWEEVIIMLPQHVKFILLSATVPNTYEFANWIGRTKQKNIYVISTPKRPVPLEINIWAKKELIPVINQNSEFLEANFRKHKEILNGESAKGAPSKTDNGRGGSTARGGRGGSNTRDGRGGRGNSTRGGANRGGSRGAGAIGSNKRKFFTQDGPSKKTWPEIVNYLRKRELLPMVVFVFSKKRCEEYADWLEGINFCNNKEKSQIHMFIEKSITRLKKEDRDLPQILKTRSLLERGIAVHHGGLLPIVKELIEILFSKGFIKVLFATETFAMGLNLPTRTVIFSSIRKHDGNGLRELTPGEFTQMAGRAGRRGLDSTGTVIVMAYNSPLSIATFKEVTMGVPTRLQSQFRLTYNMILNLLRIEALRVEEMIKYSFSENAKETLQPEHEKQIKVLQEELQTIEYKSCEICDNDIEKFLELMLAYKEATVNLMQEMVKSPSILHILKEGRLVAFRDPNDCLKLGFVFKVSLKDAVCVIMTFTKPYKLPNGEPNHLIYFPKADGYRRRNFPKFQKTDFYMEEVPVTAIEVITKRKFAAPLGKVIKKDVAALNEFNAETNNILDGKTLKEAINIEKQGLKIHQILLDRTNIRDEIFKLKSIKCPNLSQHIVPKFKAHVIKKKIEELYHLMSDQNLSLLPDYEKRLAVLKDTEFIDQNHNVLLKGRVACEINSGYELVLTELILDNFLGSFEPEEIVALLSVFVYEGKTREEEPPIVTPRLAKGKQRIEEIYKKMLCVFNTHQIPLTQDEAEFLDRKRFAMMNVVYEWARGLSFKEIMEMSPEAEGTVVRVITWLDEICREVKTASIIIGNSTLHMKMSRAQELIKRDIVFAASLYL |
| 4418 | sp|P48762|SL9A1\_PIG | MLLWSGICGLSPPRIFPSLLVVVALVGLLPVLRSHGLQPSPTASTIRGSEPPRERSIGDVTTAPPELAPESRPVNHSVTEHGMKARKAFPVLGIDYTHVRTPFEISLWILLACLMKIGFHVIPTISSIVPESCLLIVVGLLVGGLIKAVGETPPFLQSEVFFLFLLPPIILDAGYFLPLRQFTENLGTILIFAVVGTLWNAFFLGGLMYAVCLVGGEQINNIGLLDNLLFGSIISAVDPVAVLAVFEEIHINELLHILVFGESLLNDAVTVVLYHLFEEFANYDRVGIVDIVLGFLSFFVVSLGGVFVGVVYGVIAAFTSRFTSHIRVIEPLFVFLYSYMAYLSAELFHLSGIMALIASGVVMRPYVEANISHKSHTTIKYFLKMWSSVSETLIFIFLGVSTVAGSHHWNWTFVISTLLFCLIARVLGVLGLTWFINKFRIVKLTPKDQFIIAYGGLRGAIAFSLGHLLDKNHFPMCDLFLTAIITVIFFTVFVQGMTIRPLVDLLAVKKKQETKRSINEEIHTQFLDHLLTGIEDICGHYGHHHWKDKLNRFNKKYVKKCLIAGERSKEPQLIAFYHKMEMKQAIELVESGGMGKIPSAVSTVSMQNIHPKTLPTERILPALSKDKEEEIRKILRNNLQKTRQRLRSYNRHTLVADPYEEAWNQMLLRRQKARQLEQKINNHLTVPAHKLDSPTMSRARIGSDPLAYEPKADLPVITIDPASPQSPESVDLVNEELKGKVLGLSREPGRATEEEDDDEDHDGGLVMRTKEPSSPGTDDVFTPAPSDSPSSQRIQRCLSDPGPHPEPGEGEPFIPKGQ |
| 4419 | sp|O48917|SQD1\_ARATH | MAHLLSASCPSVISLSSSSSKNSVKPFVSGQTFFNAQLLSRSSLKGLLFQEKKPRKSCVFRATAVPITQQAPPETSTNNSSSKPKRVMVIGGDGYCGWATALHLSKKNYEVCIVDNLVRRLFDHQLGLESLTPIASIHDRISRWKALTGKSIELYVGDICDFEFLAESFKSFEPDSVVHFGEQRSAPYSMIDRSRAVYTQHNNVIGTLNVLFAIKEFGEECHLVKLGTMGEYGTPNIDIEEGYITITHNGRTDTLPYPKQASSFYHLSKVHDSHNIAFTCKAWGIRATDLNQGVVYGVKTDETEMHEELRNRLDYDAVFGTALNRFCVQAAVGHPLTVYGKGGQTRGYLDIRDTVQCVEIAIANPAKAGEFRVFNQFTEQFSVNELASLVTKAGSKLGLDVKKMTVPNPRVEAEEHYYNAKHTKLMELGLEPHYLSDSLLDSLLNFAVQFKDRVDTKQIMPSVSWKKIGVKTKSMTT |
| 4420 | sp|Q41358|SNAIB\_SAMNI | MRLVAKLLYLAVLAICGLGIHGALTHPRVTPPVYPSVSFNLTGADTYEPFLRALQEKVILGNHTAFDLPVLNPESQVSDSNRFVLVPLTNPSGDTVTLAIDVVNLYVVAFSSNGKSYFFSGSTAVQRDNLFVDTTQEELNFTGNYTSLERQVGFGRVYIPLGPKSLDQAISSLRTYTLTAGDTKPLARGLLVVIQMVSEAARFRYIELRIRTSITDASEFTPDLLMLSMENNWSSMSSEIQQAQPGGIFAGVVQLRDERNNSIEVTNFRRLFELTYIAVLLYGCAPVTSSSYSNNAIDAQIIKMPVFRGGEYEKVCSVVEVTRRISGWDGLCVDVRYGHYIDGNPVQLRPCGNECNQLWTFRTDGTIRWLGKCLTASSSVMIYDCNTVPPEATKWVVSIDGTITNPHSGLVLTAPQAAEGTALSLENNIHAARQGWTVGDVEPLVTFIVGYKQMCLRENGENNFVWLEDCVLNRVQQEWALYGDGTIRVNSNRSLCVTSEDHEPSDLIVILKCEGSGNQRWVFNTNGTISNPNAKLLMDVAQRDVSLRKIILYRPTGNPNQQWITTTHPA |
| 4421 | sp|A9QM73|SMG7\_ARATH | MMTLQMDKTTASSSWERAKSIYDEIAELANKRQKAGNPPDPNLLQLLREKYEAIILESHTFSEQHNIEIPLWQLHYKRIEYFRLHINRVLASSTSTAAQNVKGPSKAEQIAQLKLQFRTFLSEATGFYHDMILKIRSKYGLPLGSFSEDQQSQNLSDKDGKELAEVQKALKSCHRCLIYLGDLARYKGMYAEGDSRSRQYASASSYYLQAASLWPASGNPHHQLAIVASYSRDEFVTTYRYFRSLAVEYPFPTARDNLIVAFDKNRQSYEKLFVPSKDSSKRLTGKGRGKGADISLKDATLVAGPEKDKVTIANEMLKAFSIRFVHLNGILFTRTSLETFFDVLASTSSSLREVISLGSAKELTLGIDTSDSALFIVRVVTMLIFSVHNSKKETEGQSYAEIVQRVEPARNSLTASFELLGLVIEKCVQLGDPSSSYFLPGVLVFVEWLACCPDIALGSDPDDRQTAVRNSFWNQFVVFFNQVLSLGPTFIDDVEDETCFSNMSLYDERETENRLALWEDYELRGFLPLLPAQTILNFSRKHSFGTEGPKEKKARIKRIFAAGKALTSVIKVDQNHVYFDSKKKKFLVGVKPADDFLDSHSSPPKACNALQDNQVMIDHNSPIMQLDQQIYMGEEDDDDEVIVFKPLVTEKRKEASDQIYVPSGGFRKSDQVTTMGDFKALSGSDVAFHENQILQARGNASIQVPASVGANLLGPLQPSTQSQAMHMQQVQTQVQVPASVGANLLGLLLTSTQSQAMHMQQVQTQAVNPQPAQSLAASRLQPIQSQVAQPLPSRVVHFQQTQAQVSHVSPAHSQSTSFGGGSKWSPEEAASLASSLSGFAQLGNGHVMRNEMQGNHGVSYYPAHSLPVHQSYNGNGMGGMPYSQSRTPEAVFPPKIDPVLSSGVVADGLGVQSSLAKKNPISRAFRHLGPPPGFNSVPAKLQKEPAPGSELSGNNHLPVDDYSWLDGYQAQSSRGVGLNSSLNYATSGKPEHLGSTGNGLNGPANFPFPGKQVPTSQVQADFPYFQNPQKDNFVDKNHQSTQLPEQYQGQSTWSSRHFV |
| 4422 | sp|P42230|STA5A\_MOUSE | MAGWIQAQQLQGDALRQMQVLYGQHFPIEVRHYLAQWIESQPWDAIDLDNPQDRGQATQLLEGLVQELQKKAEHQVGEDGFLLKIKLGHYATQLQNTYDRCPMELVRCIRHILYNEQRLVREANNCSSPAGVLVDAMSQKHLQINQRFEELRLITQDTENELKKLQQTQEYFIIQYQESLRIQAQFAQLGQLNPQERMSRETALQQKQVSLETWLQREAQTLQQYRVELAEKHQKTLQLLRKQQTIILDDELIQWKRRQQLAGNGGPPEGSLDVLQSWCEKLAEIIWQNRQQIRRAEHLCQQLPIPGPVEEMLAEVNATITDIISALVTSTFIIEKQPPQVLKTQTKFAATVRLLVGGKLNVHMNPPQVKATIISEQQAKSLLKNENTRNECSGEILNNCCVMEYHQATGTLSAHFRNMSLKRIKRADRRGAESVTEEKFTVLFESQFSVGSNELVFQVKTLSLPVVVIVHGSQDHNATATVLWDNAFAEPGRVPFAVPDKVLWPQLCEALNMKFKAEVQSNRGLTKENLVFLAQKLFNISSNHLEDYNSMSVSWSQFNRENLPGWNYTFWQWFDGVMEVLKKHHKPHWNDGAILGFVNKQQAHDLLINKPDGTFLLRFSDSEIGGITIAWKFDSPDRNLWNLKPFTTRDFSIRSLADRLGDLNYLIYVFPDRPKDEVFAKYYTPVLAKAVDGYVKPQIKQVVPEFVNASTDAGASATYMDQAPSPVVCPQPHYNMYPPNPDPVLDQDGEFDLDESMDVARHVEELLRRPMDSLDARLSPPAGLFTSARSSLS |
| 4423 | sp|Q9BXU1|STK31\_HUMAN | MWVQGHSSRASATESVSFSGIVQMDEDTHYDKVEDVVGSHIEDAVTFWAQSINRNKDIMKIGCSLSEVCPQASSVLGNLDPNKIYGGLFSEDQCWYRCKVLKIISVEKCLVRYIDYGNTEILNRSDIVEIPLELQFSSVAKKYKLWGLHIPSDQEVTQFDQGTTFLGSLIFEKEIKMRIKATSEDGTVIAQAEYGSVDIGEEVLKKGFAEKCRLASRTDICEEKKLDPGQLVLRNLKSPIPLWGHRSNQSTFSRPKGHLSEKMTLDLKDENDAGNLITFPKESLAVGDFNLGSNVSLEKIKQDQKLIEENEKLKTEKDALLESYKALELKVEQIAQELQQEKAAAVDLTNHLEYTLKTYIDTRMKNLAAKMEILKEMRHVDISVRFGKDLSDAIQVLDEGCFTTPASLNGLEIIWAEYSLAQENIKTCEYVSEGNILIAQRNEMQQKLYMSVEDFILEVDESSLNKRLKTLQDLSVSLEAVYGQAKEGANSDEILKKFYDWKCDKREEFTSVRSETDASLHRLVAWFQRTLKVFDLSVEGSLISEDAMDNIDEILEKTESSVCKELEIALVDQGDADKEIISNTYSQVLQKIHSEERLIATVQAKYKDSIEFKKQLIEYLNKSPSVDHLLSIKKTLKSLKALLRWKLVEKSNLEESDDPDGSQIEKIKEEITQLRNNVFQEIYHEREEYEMLTSLAQKWFPELPLLHPEIGLLKYMNSGGLLTMSLERDLLDAEPMKELSSKRPLVRSEVNGQIILLKGYSVDVDTEAKVIERAATYHRAWREAEGDSGLLPLIFLFLCKSDPMAYLMVPYYPRANLNAVQANMPLNSEETLKVMKGVAQGLHTLHKADIIHGSLHQNNVFALNREQGIVGDFDFTKSVSQRASVNMMVGDLSLMSPELKMGKPASPGSDLYAYGCLLLWLSVQNQEFEINKDGIPKVDQFHLDDKVKSLLCSLICYRSSMTAEQVLNAECFLMPKEQSVPNPEKDTEYTLYKKEEEIKTENLDKCMEKTRNGEANFDC |
| 4424 | sp|Q9DA32|SUN5\_MOUSE | MPRTRNIGALCTLPEDTTHSGRPRRGVQRSYISRMAEPAPANMNDPLLLPLRMNTPGLSLVQILLGYMSWLTYLACFLRTQTQQVFLNTCRCKLFCQKVMEKMGLLVLCVFGFWMFSMHLPSKVEVWQDDSINGPLQSLRMYQEKVRHHTGEIQDLRGSMNQLIAKLQKMEAISDEQKMAQKIMKMIQGDYIEKPDFALKSIGASIDFEHTSATYNHDKARSYWNWIRLWNYAQPPDVILEPNVTPGNCWAFASDRGQVTIRLAQKVYLSNITLQHIPKTISLSGSPDTAPKDIVIYGLESLPREEVFLGAFQFQPENVIQMFQLQNLPPRSFAAVKVKISSNWGNPRFTCMYRVRVHGSVTPPKDSHLEPLS |
| 4425 | sp|Q76I76|SSH2\_HUMAN | MALVTVQRSPTPSTTSSPCASEADSGEEECRSQPRSISESFLTVKGAALFLPRGNGSSTPRISHRRNKHAGDLQQHLQAMFILLRPEDNIRLAVRLESTYQNRTRYMVVVSTNGRQDTEESIVLGMDFSSNDSSTCTMGLVLPLWSDTLIHLDGDGGFSVSTDNRVHIFKPVSVQAMWSALQSLHKACEVARAHNYYPGSLFLTWVSYYESHINSDQSSVNEWNAMQDVQSHRPDSPALFTDIPTERERTERLIKTKLREIMMQKDLENITSKEIRTELEMQMVCNLREFKEFIDNEMIVILGQMDSPTQIFEHVFLGSEWNASNLEDLQNRGVRYILNVTREIDNFFPGVFEYHNIRVYDEEATDLLAYWNDTYKFISKAKKHGSKCLVHCKMGVSRSASTVIAYAMKEYGWNLDRAYDYVKERRTVTKPNPSFMRQLEEYQGILLASKQRHNKLWRSHSDSDLSDHHEPICKPGLELNKKDITTSADQIAEVKTMESHPPIPPVFVEHMVPQDANQKGLCTKERMICLEFTSREFHAGQIEDELNLNDINGCSSGCCLNESKFPLDNCHASKALIQPGHVPEMANKFPDLTVEDLETDALKADMNVHLLPMEELTSPLKDPPMSPDPESPSPQPSCQTEISDFSTDRIDFFSALEKFVELSQETRSRSFSHSRMEELGGGRNESCRLSVVEVAPSKVTADDQRSSSLSNTPHASEESSMDEEQSKAISELVSPDIFMQSHSENAISVKEIVTEIESISQGVGQIQLKGDILPNPCHTPKKNSIHELLLERAQTPENKPGHMEQDEDSCTAQPELAKDSGMCNPEGCLTTHSSIADLEEGEPAEGEQELQGSGMHPGAKWYPGSVRRATLEFEERLRQEQEHHGAAPTCTSLSTRKNSKNDSSVADLAPKGKSDEAPPEHSFVLKEPEMSKGKGKYSGSEAGSLSHSEQNATVPAPRVLEFDHLPDPQEGPGSDTGTQQEGVLKDLRTVIPYQESETQAVPLPLPKRVEIIEYTHIVTSPNHTGPGSEIATSEKSGEQGLRKVNMEKSVTVLCTLDENLNRTLDPNQVSLHPQVLPLPHSSSPEHNRPTDHPTSILSSPEDRGSSLSTALETAAPFVSHTTHLLSASLDYLHPQTMVHLEGFTEQSSTTDEPSAEQVSWEESQESPLSSGSEVPYKDSQLSSADLSLISKLGDNTGELQEKMDPLPVACRLPHSSSSENIKSLSHSPGVVKERAKEIESRVVFQAGLTKPSQMRRSASLAKLGYLDLCKDCLPEREPASCESPHLKLLQPFLRTDSGMHAMEDQESLENPGAPHNPEPTKSFVEQLTTTECIVQSKPVERPLVQYAKEFGSSQQYLLPRAGLELTSSEGGLPVLQTQGLQCACPAPGLAVAPRQQHGRTHPLRRLKKANDKKRTTNPFYNTM |
| 4426 | sp|P08153|SWI5\_YEAST | MDTSNSWFDASKVQSLNFDLQTNSYYSNARGSDPSSYAIEGEYKTLATDDLGNILNLNYGETNEVIMNEINDLNLPLGPLSDEKSVKVSTFSELIGNDWQSMNFDLENNSREVTLNATSLLNENRLNQDSGMTVYQKTMSDKPHDEKKISMADNLLSTINKSEINKGFDRNLGELLLQQQQELREQLRAQQEANKKLELELKQTQYKQQQLQATLENSDGPQFLSPKRKISPASENVEDVYANSLSPMISPPMSNTSFTGSPSRRNNRQKYCLQRKNSSGTVGPLCFQELNEGFNDSLISPKKIRSNPNENLSSKTKFITPFTPKSRVSSATSNSANITPNNLRLDFKINVEDQESEYSEKPLGLGIELLGKPGPSPTKSVSLKSASVDIMPTIPGSVNNTPSVNKVSLSSSYIDQYTPRGKQLHFSSISENALGINAATPHLKPPSQQARHREGVFNDLDPNVLTKNTDNEGDDNEENEPESRFVISETPSPVLKSQSKYEGRSPQFGTHIKEINTYTTNSPSKITRKLTTLPRGSIDKYVKEMPDKTFECLFPGCTKTFKRRYNIRSHIQTHLEDRPYSCDHPGCDKAFVRNHDLIRHKKSHQEKAYACPCGKKFNREDALVVHRSRMICSGGKKYENVVIKRSPRKRGRPRKDGTSSVSSSPIKENINKDHNGQLMFKLEDQLRRERSYDGNGTGIMVSPMKTNQR |
| 4427 | sp|O00338|ST1C2\_HUMAN | MALTSDLGKQIKLKEVEGTLLQPATVDNWSQIQSFEAKPDDLLICTYPKAGTTWIQEIVDMIEQNGDVEKCQRAIIQHRHPFIEWARPPQPSGVEKAKAMPSPRILKTHLSTQLLPPSFWENNCKFLYVARNAKDCMVSYYHFQRMNHMLPDPGTWEEYFETFINGKVVWGSWFDHVKGWWEMKDRHQILFLFYEDIKRDPKHEIRKVMQFMGKKVDETVLDKIVQETSFEKMKENPMTNRSTVSKSILDQSISSFMRKGTVGDWKNHFTVAQNERFDEIYRRKMEGTSINFCMEL |
| 4428 | sp|G5ECL2|SYNJ\_CAEEL | MSVRGIRIWRRNDARFQPSILVEKNGLDGSLLFQGGAIATLDSDSTDVERRSYQKIVDAYGILGVLAITKDEAVLVAVTGVLSVGQLYGADILKITNVEFISLRTFGSVENVDSRIIDLQRLLSSQMFYFSSLQSYDLTRSAQHRDSHDCSDARFFWNRSLHFSFQRYGIDTDNWLLKCMAGSVLVRVVYVGANTGRVALISRLSCERVGTRFNVRGANYLGNVANFVETEQLLLFDEKECSLLQIRGSIPLFWEQPGVNVGSHKVKLRAFETSLPAYHRHLSQLQHRYGEFAIVNLLGRKEGERVLGDAFKTQHKSSHFAPLVDFIDFDYHAQMKISKEAIVQLKKKMSPHMTKHGFFYSMGKEIVKRQTGVIRTNCLDCLDRTNAVQTAIGLQMSHDQVAFLNLNAGKVNVEQRVEEILRDLWQKNGDQCSTIYAGTGALDGKSKLKDASRSLARTIQNNLMDGAKQESFDLFLTGAAYDPRLFDRACNILPPSLIQESYYYHEYADAVSQLVERSPEIAEPQSIKIFVGTWNVNGGKNIHNVAFRNESSLSHWIFANSMTRLVSVEDEQLADIVAIGVEELVDLNASNMVKASTTNQRMWCESIRKTLSEKAPFVLIGSEQLVGVCLFLFARPRVSPYLKDFAVASVKTGMGGATGNKGSVAFRIVVFSTSICFICSHFAAGQNEIRDRNEDFATTLKKIRFPLGREIDSHDVIFWLGDFNYRINLSGDEVKNAVRNGDYAKLVENDQLTQQKALGQTFVGFNEGQLTFAPTYKYDTFSDDYDTSEKCRAPAWTDRILWKDQRKKGKTQLLSYDRSELKTSDHRPVGAVFKVETFKVGGRKCVELIEDVVESMGPPDGTIIVSIAGKPRFPPQMFPPIHEKLKELGAQVQLSKFDDGDLWIVLNSGEMALAALSMDGLKIGGTDQINVKLKSPDWAYALKPHLSDFDLESFEVTAEEEALLGGTDGAVFEFADEDEDAISVSSLTLTGSAPDRPRPPSARSEAISVAKLEWPTEQPNVLSTSMPTRASSASLANSSWYEHVPPLAPPQSNNNKSPPQACLFNPFTQSAPSPAPPPSTIPLPPTRGASVGPGPPAVPVRKAPPPPPRPVIPPRPKNM |
| 4429 | sp|P30873|SSR1\_MOUSE | MFPNGTASSPSSSPSPSPGSCGEGACSRGPGSGAADGMEEPGRNASQNGTLSEGQGSAILISFIYSVVCLVGLCGNSMVIYVILRYAKMKTATNIYILNLAIADELLMLSVPFLVTSTLLRHWPFGALLCRLVLSVDAVNMFTSIYCLTVLSVDRYVAVVHPIKAARYRRPTVAKVVNLGVWVLSLLVILPIVVFSRTAANSDGTVACNMLMPEPAQRWLVGFVLYTFLMGFLLPVGAICLCYVLIIAKMRMVALKAGWQQRKRSERKITLMVMMVVMVFVICWMPFYVVQLVNVFAEQDDATVSQLSVILGYANSCANPILYGFLSDNFKRSFQRILCLSWMDNAAEEPVDYYATALKSRAYSVEDFQPENLESGGVFRNGTCASRISTL |
| 4430 | sp|P51865|TDGF1\_MOUSE | MGYFSSSVVLLVAISSAFEFGPVAGRDLAIRDNSIWDQKEPAVRDRSFQFVPSVGIQNSKSLNKTCCLNGGTCILGSFCACPPSFYGRNCEHDVRKEHCGSILHGTWLPKKCSLCRCWHGQLHCLPQTFLPGCDGHVMDQDLKASRTPCQTPSVTTTFMLAGACLFLDMKV |
| 4431 | sp|O77448|TERT\_TETTS | MQKINNINNNKQMLTRKEDLLTVLKQISALKYVSNLYEFLLATEKIVQTSELDTQFQEFLTTTIIASEQNLVENYKQKYNQPNFSQLTIKQVIDDSIILLGNKQNYVQQIGTTTIGFYVEYENINLSRQTLYSSNFRNLLNIFGEEDFKYFLIDFLVFTKVEQNGYLQVAGVCLNQYFSVQVKQKKWYKNNFNMNGKATSNNNQNNANLSNEKKQENQYIYPEIQRSQIFYCNHMGREPGVFKSSFFNYSEIKKGFQFKVIQEKLQGRQFINSDKIKPDHPQTIIKKTLLKEYQSKNFSCQEERDLFLEFTEKIVQNFHNINFNYLLKKFCKLPENYQSLKSQVKQIVQSENKANQQSCENLFNSLYDTEISYKQITNFLRQIIQNCVPNQLLGKKNFKVFLEKLYEFVQMKRFENQKVLDYICFMDVFDVEWFVDLKNQKFTQKRKYISDKRKILGDLIVFIINKIVIPVLRYNFYITEKHKEGSQIFYYRKPIWKLVSKLTIVKLEEENLEKVEEKLIPEDSFQKYPQGKLRIIPKKGSFRPIMTFLRKDKQKNIKLNLNQILMDSQLVFRNLKDMLGQKIGYSVFDNKQISEKFAQFIEKWKNKGRPQLYYVTLDIKKCYDSIDQMKLLNFFNQSDLIQDTYFINKYLLFQRNKRPLLQIQQTNNLNSAMEIEEEKINKKPFKMDNINFPYYFNLKERQIAYSLYDDDDQILQKGFKEIQSDDRPFIVINQDKPRCITKDIIHNHLKHISQYNVISFNKVKFRQKRGIPQGLNISGVLCSFYFGKLEEEYTQFLKNAEQVNGSINLLMRLTDDYLFISDSQQNALNLIVQLQNCANNNGFMFNDQKITTNFQFPQEDYNLEHFKISVQNECQWIGKSIDMNTLEIKSIQKQTQQEINQTINVAISIKNLKSQLKNKLRSLFLNQLIDYFNPNINSFEGLCRQLYHHSKATVMKFYPFMTKLFQIDLKKSKQYSVQYGKENTNENFLKDILYYTVEDVCKILCYLQFEDEINSNIKEIFKNLYSWIMWDIIVSYLKKKKQFKGYLNKLLQKIRKSRFFYLKEGCKSLQLILSQQKYQLNKKELEAIEFIDLNNLIQDIKTLIPKISAKSNQQNTN |
| 4432 | sp|Q9V6G5|TAZ\_DROME | MFMVVCSNLRRPGHVGAASAARNINWLISEGYTPPIRAMARPYVQAPEARPVPDERYPGSQQDRKDIATQTVRSSKPKDLRPPSPPTPSQTLNSSSLPPPMSDQDADPSLDVPTGVAMPYNIDWIFPRLRNPSKFWYVVSQFVVSAVGIFSKVVLMFLNKPRVYNRERLIQLITKRPKGIPLVTVSNHYSCFDDPGLWGCLPLGIVCNTYKIRWSMAAHDICFTNKLHSLFFMFGKCIPVVRGIGVYQDAINLCIEKAALGHWIHVFPEGKVNMDKEELRLKWGVGRIIYESPKIPIILPMWHEGMDDLLPNVEPYVIQRGKQVTLNVGQPLDLNDFILDLKKRQVPEPTARKLITDKIQEAFRDLRAETEKLHRERN |
| 4433 | sp|Q9BQG1|SYT3\_HUMAN | MSGDYEDDLCRRALILVSDLCARVRDADTNDRCQEFNDRIRGYPRGPDADISVSLLSVIVTFCGIVLLGVSLFVSWKLCWVPWRDKGGSAVGGGPLRKDLGPGVGLAGLVGGGGHHLAAGLGGHPLLGGPHHHAHAAHHPPFAELLEPGSLGGSDTPEPSYLDMDSYPEAAAAAVAAGVKPSQTSPELPSEGGAGSGLLLLPPSGGGLPSAQSHQQVTSLAPTTRYPALPRPLTQQTLTSQPDPSSEERPPALPLPLPGGEEKAKLIGQIKPELYQGTGPGGRRSGGGPGSGEAGTGAPCGRISFALRYLYGSDQLVVRILQALDLPAKDSNGFSDPYVKIYLLPDRKKKFQTKVHRKTLNPVFNETFQFSVPLAELAQRKLHFSVYDFDRFSRHDLIGQVVLDNLLELAEQPPDRPLWRDIVEGGSEKADLGELNFSLCYLPTAGRLTVTIIKASNLKAMDLTGFSDPYVKASLISEGRRLKKRKTSIKKNTLNPTYNEALVFDVAPESVENVGLSIAVVDYDCIGHNEVIGVCRVGPDAADPHGREHWAEMLANPRKPVEHWHQLVEEKTVTSFTKGSKGLSEKENSE |
| 4434 | sp|Q920N7|SYT12\_MOUSE | MAVDVTEYHLSVIKSPPGWEVGVYAAGALALLGIAAVSLWKLWTSGSFPSPSPFPNYDYRYLQQKYGEAYVEAKLKRVPPWNDQRTTTRGPPSRKGSLSIEDTFESISELGPLELMGRELDLAPYGTLRKSQSADSLNSISSVSNTFGQDFTLGQVEVSMDYDGASHTLHVAVLQGKDLLEREEATFESCFMRVSLLPDEQIVGISRIQRNAYSIFFDEKFSVPLDPTALEEKSLRFSVFGIDEDERNVSTGVVELKLSVLDLPLQPFSGWLYLQDQNKAADAVGEILLSLSYLPTAERLTVVVVKAKNLIWTNEKSTADPFVKVYLLQDGRKMSKKKTAVKRDDPNPVFNEAMIFSVPAIVLQDLSLRVTVAESSSDGRGDNVGHVIIGPGVSGMGTTHWNQMLATLRRPVSMWHPVRRN |
| 4435 | sp|Q96C24|SYTL4\_HUMAN | MSELLDLSFLSEEEKDLILSVLQRDEEVRKADEKRIRRLKNELLEIKRKGAKRGSQHYSDRTCARCQESLGRLSPKTNTCRGCNHLVCRDCRIQESNGTWRCKVCAKEIELKKATGDWFYDQKVNRFAYRTGSEIIRMSLRHKPAVSKRETVGQSLLHQTQMGDIWPGRKIIQERQKEPSVLFEVPKLKSGKSALEAESESLDSFTADSDSTSRRDSLDKSGLFPEWKKMSAPKSQVEKETQPGGQNVVFVDEGEMIFKKNTRKILRPSEYTKSVIDLRPEDVVHESGSLGDRSKSVPGLNVDMEEEEEEEDIDHLVKLHRQKLARSSMQSGSSMSTIGSMMSIYSEAGDFGNIFVTGRIAFSLKYEQQTQSLVVHVKECHQLAYADEAKKRSNPYVKTYLLPDKSRQGKRKTSIKRDTINPLYDETLRYEIPESLLAQRTLQFSVWHHGRFGRNTFLGEAEIQMDSWKLDKKLDHCLPLHGKISAESPTGLPSHKGELVVSLKYIPASKTPVGGDRKKSKGGEGGELQVWIKEAKNLTAAKAGGTSDSFVKGYLLPMRNKASKRKTPVMKKTLNPHYNHTFVYNGVRLEDLQHMCLELTVWDREPLASNDFLGGVRLGVGTGISNGEVVDWMDSTGEEVSLWQKMRQYPGSWAEGTLQLRSSMAKQKLGL |
| 4436 | sp|Q9Y228|T3JAM\_HUMAN | MISPDPRPSPGLARWAESYEAKCERRQEIRESRRCRPNVTTCRQVGKTLRIQQREQLQRARLQQFFRRRNLELEEKGKAQHPQAREQGPSRRPGQVTVLKEPLSCARRISSPREQVTGTSSEVFPAQHPPPSGICRDLSDHLSSQAGGLPPQDTPIKKPPKHHRGTQTKAEGPTIKNDASQQTNYGVAVLDKEIIQLSDYLKEALQRELVLKQKMVILQDLLSTLIQASDSSWKGQLNEDKLKGKLRSLENQLYTCTQKYSPWGMKKVLLEMEDQKNSYEQKAKESLQKVLEEKMNAEQQLQSTQRSLALAEQKCEEWRSQYEALKEDWRTLGTQHRELESQLHVLQSKLQGADSRDLQMNQALRFLENEHQQLQAKIECLQGDRDLCSLDTQDLQDQLKRSEAEKLTLVTRVQQLQGLLQNQSLQLQEQEKLLTKKDQALPVWSPKSFPNEVEPEGTGKEKDWDLRDQLQKKTLQLQAKEKECRELHSELDNLSDEYLSCLRKLQHCREELNQSQQLPPRRQCGRWLPVLMVVIAAALAVFLANKDNLMI |
| 4437 | sp|P17871|TBP\_SCHPO | MDFALPTTASQASAFMNNSSLTFPVLPNANNEATNETADSGDAEVSKNEGVSGIVPTLQNIVATVNLDCRLDLKTIALHARNAEYNPKRFAAVIMRIREPKSTALIFASGKMVVLGGKSEDDSKLASRKYARIIQKLGFNAKFTDFKIQNIVGSCDVKFPIRLEGLAYSHGTFSSYEPELFPGLIYRMVKPKVVLLIFVSGKIVLTGAKVREEIYQAFEAIYPVLSEFRKH |
| 4438 | sp|Q9P0N9|TBCD7\_HUMAN | MTEDSQRNFRSVYYEKVGFRGVEEKKSLEILLKDDRLDTEKLCTFSQRFPLPSMYRALVWKVLLGILPPHHESHAKVMMYRKEQYLDVLHALKVVRFVSDATPQAEVYLRMYQLESGKLPRSPSFPLEPDDEVFLAIAKAMEEMVEDSVDCYWITRRFVNQLNTKYRDSLPQLPKAFEQYLNLEDGRLLTHLRMCSAAPKLPYDLWFKRCFAGCLPESSLQRVWDKVVSGSCKILVFVAVEILLTFKIKVMALNSAEKITKFLENIPQDSSDAIVSKAIDLWHKHCGTPVHSS |
| 4439 | sp|O75529|TAF5L\_HUMAN | MKRVRTEQIQMAVSCYLKRRQYVDSDGPLKQGLRLSQTAEEMAANLTVQSESGCANIVSAAPCQAEPQQYEVQFGRLRNFLTDSDSQHSHEVMPLLYPLFVYLHLNLVQNSPKSTVESFYSRFHGMFLQNASQKDVIEQLQTTQTIQDILSNFKLRAFLDNKYVVRLQEDSYNYLIRYLQSDNNTALCKVLTLHIHLDVQPAKRTDYQLYASGSSSRSENNGLEPPDMPSPILQNEAALEVLQESIKRVKDGPPSLTTICFYAFYNTEQLLNTAEISPDSKLLAAGFDNSCIKLWSLRSKKLKSEPHQVDVSRIHLACDILEEEDDEDDNAGTEMKILRGHCGPVYSTRFLADSSGLLSCSEDMSIRYWDLGSFTNTVLYQGHAYPVWDLDISPYSLYFASGSHDRTARLWSFDRTYPLRIYAGHLADVDCVKFHPNSNYLATGSTDKTVRLWSAQQGNSVRLFTGHRGPVLSLAFSPNGKYLASAGEDQRLKLWDLASGTLYKELRGHTDNITSLTFSPDSGLIASASMDNSVRVWDIRNTYCSAPADGSSSELVGVYTGQMSNVLSVQFMACNLLLVTGITQENQEH |
| 4440 | sp|Q15813|TBCE\_HUMAN | MSDTLTADVIGRRVEVNGEHATVRFAGVVPPVAGPWLGVEWDNPERGKHDGSHEGTVYFKCRHPTGGSFIRPNKVNFGTDFLTAIKNRYVLEDGPEEDRKEQIVTIGNKPVETIGFDSIMKQQSQLSKLQEVSLRNCAVSCAGEKGGVAEACPNIRKVDLSKNLLSSWDEVIHIADQLRHLEVLNVSENKLKFPSGSVLTGTLSVLKVLVLNQTGITWAEVLRCVAGCPGLEELYLESNNIFISERPTDVLQTVKLLDLSSNQLIDENQLYLIAHLPRLEQLILSDTGISSLHFPDAGIGCKTSMFPSLKYLVVNDNQISQWSFFNELEKLPSLRALSCLRNPLTKEDKEAETARLLIIASIGQLKTLNKCEILPEERRRAELDYRKAFGNEWKQAGGHKDPEKNRLSEEFLTAHPRYQFLCLKYGAPEDWELKTQQPLMLKNQLLTLKIKYPHQLDQKVLEKQLPGSMTIQKVKGLLSRLLKVPVSDLLLSYESPKKPGREIELENDLKSLQFYSVENGDCLLVRW |
| 4441 | sp|P09758|TACD2\_HUMAN | MARGPGLAPPPLRLPLLLLVLAAVTGHTAAQDNCTCPTNKMTVCSPDGPGGRCQCRALGSGMAVDCSTLTSKCLLLKARMSAPKNARTLVRPSEHALVDNDGLYDPDCDPEGRFKARQCNQTSVCWCVNSVGVRRTDKGDLSLRCDELVRTHHILIDLRHRPTAGAFNHSDLDAELRRLFRERYRLHPKFVAAVHYEQPTIQIELRQNTSQKAAGDVDIGDAAYYFERDIKGESLFQGRGGLDLRVRGEPLQVERTLIYYLDEIPPKFSMKRLTAGLIAVIVVVVVALVAGMAVLVITNRRKSGKYKKVEIKELGELRKEPSL |
| 4442 | sp|Q5T011|SZT2\_HUMAN | MASERPEPEVEEAGQVFLLMKKDYRISRNVRLAWFLSHLHQTVQATPQEMLLQSEQELEVLSVLPPGWQPDEPVVPRPFLLVPSTRVTFLAWQYRFVIELDLSPSTGIVDDSTGEILFDEVFHALSRCLGGLLRPFRVPGSCIDFQPEIYVTIQAYSSIIGLQSHQVLVQGCLLDPSQREVFLQQIYEQLCLFEDKVATMLQQQYDPQSQAEDQSPDSGDLLGRKVGVSMVTADLGLVSMIRQGILALQLLPSNSSAGIIVITDGVTSVPDVAVCETLLNQLRSGTVACSFVQVGGVYSYDCSFGHVPNVELMKFIAMATFGSYLSTCPEPEPGNLGLTVYHRAFLLYSFLRSGEALNPEYYCGSQHRLFNEHLVSASSNPALALRRKKHTEKEVPADLVSTVSVRLREGYSVREVTLAKGGSQLEVKLVLLWKHNMRIEYVAMAPWPLEPEGPRVTRVEVTMEGGYDILHDVSCALRQPIRSLYRTHVIRRFWNTLQSINQTDQMLAHLQSFSSVPEHFTLPDSTKSGVPLFYIPPGSTTPVLSLQPSGSDSSHAQFAAYWKPVLSMDANSWQRWLHMHRLVLILEHDTPIPKHLHTPGSNGRYSTIQCRISHSSLTSLLRDWSSFVLVEGYSYVKLLSSAPDQPPNSFYMVRIISKAPCMVLRLGFPIGTPAPARHKIVSGLREEILRLRFPHRVQSKEPTPKVKRKGLGGAGGGSSPSKSPPVLGPQQALSDRPCLVVLHKPLDKLLIRYEKLPLDYRAPFLLTLEPPGPLPLVSGRSASSSLASLSRYLYHQRWLWSVPSGLAPALPLSAIAQLLSILTEVRLSEGFHFACSGEGIINMVLELPIQNEPPGQAAAEEKHTCVVQYILFPPHSTSTKDSFSTDDDNDVEVEALEGDSELNLVTEVWVEPQYGRVGPGPGIWKHLQDLTYSEIPQALHPRDAACIGSMLSFEYLIQLCQSKEWGPLPPEPRVSDGLDQGGDTCVHEIPFHFDLMGLLPQCQQLQMFFLLLAREPEGVPFAEGSCPANDMVLCLLHSCLGQELSDREIPLTPVDQAAFLSEVLRRTCHVPGAEGPLLGVHGIPKEQAVGSTQATGDSAFTSLSVGLPETLKPLISAQPPQWRCYARLVNPQHVFLTFLPATFSDVQRLAACGLEGPPQEETKPKFGDWSGAPSLKDLGGTGIKATKSHVPVLSVTLASDNAQNQGELSPPFRRDLQAYAGRQASQTESADGPRTRCPVYIYSCSLEALREQMVGMQPPQAPRDLIFRTQFLDHPSPSSAWMEPRYKEAANHCALLQEHAQRCYVRGLFRSLQQAQSVTSQDLLTAVDACEELLQEIDITPFLLALCGHTWGLPHAPPSPGPLSPGPFSSSMEEGAEPRERAILASESSIETEDLSEPEFQSTRVPGIPDPGPEISLTDVCQLRGEAHGALHSVIQEKFLEISRLHFRTVPSNPHYFFYCPPSSRREDEGPRDTVDRKISDLEFSEAELMGEEGDTSACCVVTESDPELEVEYRESRESDLGPAGLDSASLSDVDTVNPDEDSFSILGGDSPTGPESFLHDLPPLFLHLTCSVRLRGQHSSVPVCSLPTCLGQVLSSLEGPPVGGRVPLRDLSVTLDVFMLTLPLEVELPTASDPQHHRSTSESSASFPRSPGQPSSLRSDDGLGPPLPPPEEERHPGLSNLATPHRLAIETTMNEIRWLLEDEMVGALRRGGIPQSPALHRAAAHIHSSPGRSTCLRQTLPLSFVFGPERSLTQFKEEFRRLHLPGHVLLEDPDSGFFFVAAGQQPGGSHGEPSSAAWAWHSHEDRAEGIEGETLTASPQAPGSPEDSEGVPLISLPRVPQGGSQPGPSRGLSLMSSQGSVDSDHLGYDGGSSGSDSEGPNDTLGEKAPFTLRTPPGPAPPQPSLSGLPGPCLPDFWLIVRVLQDRVEVYAHARSLIREDGGPGTECRHLQQLLVRRVGEICREVNQRLLLQDLHDSHVCNSLLVAESEEDLWRSETPFHSRQRAPLPSDDYAADESCAPRGYLAATMQFVPGHFSCDVVWGTVIRVHSRLKMGPSMGVSRAIQALRSVLNAFSVVNRKNMFVYQERATKAVYYLRLLETSCSDRPWKGDALPPSLALSRSQEPIYSEEASGPRSPLDMVSSRSSDAARPVGQVDRHIQLLVHGVGQAGPEITDELVRVLCRRLDEATLDVITVMLVRNCKLTPADVEFIQPPGSLPSEVLHLALPTSCRPWLPALAWYLRQNLLIFLHSPKYTDSNSRNHFQHPLPPQGGLPDLDIYLYNKPGGQGTGGKGVACITLAFVDEGGAPLSLALWPPSSPGPPDPLREEEFEQLTQVIRCPVVVDSSSAQNGAPRLRLDVWEKGNISIVQLEEKLRGAARQALADAIIELQLLPASLCTEDTPTGSLRNGSLETKSSAGRASTFPPAPVPGEPVTPPSKAGRRSFWDMLSKTECGDLGSPKTTDDIVLDRPEDTRGRRRHKTESVRTPGGAERAPGSDSGAQRQKRRTTQLEEGEVGTLHPVFARVAQRWMEFMVQIGCASVSRSSAHMVSRFLLPSILSEFTALVTSMAGDTSVRIFEQHLGSEPEIFGPCSPGQLGPSPRPAAERHLLLLGRNFLQWRRPTQQAAKAMQRFEPGGDGSSGRNAPRQRLLLLEVVDKKLQLLTYNWAPDLGAALGRALVRLVQWQNARAHLIFCLLSQKLGLFHHYGQLDFPVRDEKEPNPFLLPTMEVETLIRSASPPLSREQGRLSGSSRGGGPLPLDTFPFDEALRDITAARPSSVLGPVPRPPDPVTYHGQQFLEIKMAERRELERQMKMENLFVTWQQRSTPATMPISAGELETLKQSSRLVHYCATAMLFDPAAWLHGPPETSGPPDGQRRHRPESGSGSREAPTSCESLDVSPPGAREEPWLKELSLAFLQQYVQYLQSIGFVLVPLRPPSPARSTSRPRAMAILGTEGRGSFSCPKTKTDGSPKSTSSPVTTYHLQRALPGGIILMELAFQGCYFCVKQFALECSRIPMGQAVNSQLSMLFTEECDKVRDLMHVHSFSYDFHLRLVHQHVLGAHLVLRHGYHLTTFLRHFLAHHPDGPHFGRNHIYQGTLELPTPLIAAHQLYNYVADHASSYHMKPLRMARPGGPEHNEYALVSAWHSSGSYLDSEGLRHQDDFDVSLLVCHCAAPFEEQGEAERHVLRLQFFVVLTSQRELFPRLTADMRRFRKPPRLPPEPEAPGSSAGSPGEASGLILAPGPAPLFPPLAAEVGMARARLAQLVRLAGGHCRRDTLWKRLFLLEPPGPDRLRLGGRLALAELEELLEAVHAKSIGDIDPQLDCFLSMTVSWYQSLIKVLLSRFPQSCRHFQSPDLGTQYLVVLNQKFTDCFVLVFLDSHLGKTSLTVVFREPFPVQPQDSESPPAQLVSTYHHLESVINTACFTLWTRLL |
| 4443 | sp|Q0KHQ5|TAO\_DROME | MPSARPGSLKDPEIADLFNKHDPEKIFEDLREIGHGSFGAVYYARCNLTREIVAIKKMSYTGKQSQEKWQDILKEIRFLRQLNHPNTIEYKGCYLRESTAWLVMEYCVGSASDIIEVHKKPLHEDEIAAICLGVLSGLSYLHSLGRIHRDIKAGNILLTDNGVVKLADFGSAAIKCPANSFVGTPYWMAPEVILAMDEGQYDGKVDVWSLGITCIELAERKPPYFNMNAMSALYHIAQNESPTLPKNDWSDAFCSFVELCLKKMPAERPSSAKLLTHAYVTRPRSDTVLLELIARTKSAVRELDNLNYRKMKKILMVDTCETESAVGDTDDQQDDHAGGDSSKSNSITSEHSIHSVGVSAASSQSSSSNSIPAAAQNHHHIAAHHHQQAASAAVAAAMHHHHHPHQQPPPSWPSGQQGQPVPPGAVSRNSSRHRNRPPLPNIMHSMNNNVTPTNSASVVPAPAPAPVLPPPISVLPHLSAMGHVGGGGTGTGGSGGGSPASGGPLADRIQPVQPRYLTTPAAQAAVYAASSASSQQAISNAVNDHGPNNFATIRTTSIVTKQQKEHMQEEMHEQMSGYKRMRREHQAHLVKLEEKCKVDMEAHKTALDKEYDTLLHNFTRDLDRLETKHQQDVERRAKQTSAAEKKLHKEITLKQENDRKVYDLNRKKEYKANKERWKRELSMDESTPKRQRDLTLQSQKDNLKQHEAQEEQRMLQAQKQYIELEMRKFKRKRMIMQHEHEDQQLRDELGKKEQQLQQAHAMLLKHHEKTQELEYRQQKSVHQLREEQINKQHDTELHNQKDYMDRIKKELVRKHAVELRQQPKSLKQKELQIRKQFRETCKTQTKQYKRYKAQVLQTTPKEQQKEVIKQLKEEKHRKLTLLGEQYEQSIADMFQSQSYKLDESQVIECQRTHEQLEYELEMLTAYQNKNKKQAQEQRDRERRELENRVSVRRGLLENKMDAELQQFNQERAERLRMKHEKHTKELEAFDNESIALGFSTLSLIEVSREAYADEEGSLSGSMISLAHSNSSTSFPAGSL |
| 4444 | sp|P36402|TCF7\_HUMAN | MPQLDSGGGGAGGGDDLGAPDELLAFQDEGEEQDDKSRDSAAGPERDLAELKSSLVNESEGAAGGAGIPGVPGAGAGARGEAEALGREHAAQRLFPDKLPEPLEDGLKAPECTSGMYKETVYSAFNLLMHYPPPSGAGQHPQPQPPLHKANQPPHGVPQLSLYEHFNSPHPTPAPADISQKQVHRPLQTPDLSGFYSLTSGSMGQLPHTVSWFTHPSLMLGSGVPGHPAAIPHPAIVPPSGKQELQPFDRNLKTQAESKAEKEAKKPTIKKPLNAFMLYMKEMRAKVIAECTLKESAAINQILGRRWHALSREEQAKYYELARKERQLHMQLYPGWSARDNYGKKKRRSREKHQESTTETNWPRELKDGNGQESLSMSSSSSPA |
| 4445 | sp|P27623|TAGD\_BACSU | MKKVITYGTFDLLHWGHIKLLERAKQLGDYLVVAISTDEFNLQKQKKAYHSYEHRKLILETIRYVDEVIPEKNWEQKKQDIIDHNIDVFVMGDDWEGKFDFLKDQCEVVYLPRTEGISTTKIKEEIAGL |
| 4446 | sp|P25325|THTM\_HUMAN | MASPQLCRALVSAQWVAEALRAPRAGQPLQLLDASWYLPKLGRDARREFEERHIPGAAFFDIDQCSDRTSPYDHMLPGAEHFAEYAGRLGVGAATHVVIYDASDQGLYSAPRVWWMFRAFGHHAVSLLDGGLRHWLRQNLPLSSGKSQPAPAEFRAQLDPAFIKTYEDIKENLESRRFQVVDSRATGRFRGTEPEPRDGIEPGHIPGTVNIPFTDFLSQEGLEKSPEEIRHLFQEKKVDLSKPLVATCGSGVTACHVALGAYLCGKPDVPIYDGSWVEWYMRARPEDVISEGRGKTH |
| 4447 | sp|P50105|TAF4\_YEAST | MANSPKKPSDGTGVSASDTPKYQHTVPETKPAFNLSPGKASELSHSLPSPSQIKSTAHVSSTHNDAAGNTDDSVLPKNVSPTTNLRVESNGDTNNMFSSPAGLALPKKDDKKKNKGTSKADSKDGKASNSSGQNAQQQSDPNKMQDVLFSAGIDVREEEALLNSSINASKSQVQTNNVKIPNHLPFLHPEQVSNYMRKVGKEQNFNLTPTKNPEILDMMSSACENYMRDILTNAIVISRHRRKAVKINSGRRSEVSAALRAIALIQKKEEERRVKKRIALGLEKEDYENKIDSEETLHRASNVTAGLRAGSKKQYGWLTSSVNKPTSLGAKSSGKVASDITARGESGLKFREAREEPGIVMRDLLFALENRRNSVQTIISKGYAKIRD |
| 4448 | sp|P25306|TD2\_SOLLC | MEFLCLAPTRSFSTNPKLTKSIPSDHTSTTSRIFTYQNMRGSTMRPLALPLKMSPIVSVPDITAPVENVPAILPKVVPGELIVNKPTGGDSDELFQYLVDILASPVYDVAIESPLELAEKLSDRLGVNFYIKREDKQRVFSFKLRGAYNMMSNLSREELDKGVITASAGNHAQGVALAGQRLNCVAKIVMPTTTPQIKIDAVRALGGDVVLYGKTFDEAQTHALELSEKDGLKYIPPFDDPGVIKGQGTIGTEINRQLKDIHAVFIPVGGGGLIAGVATFFKQIAPNTKIIGVEPYGAASMTLSLHEGHRVKLSNVDTFADGVAVALVGEYTFAKCQELIDGMVLVANDGISAAIKDVYDEGRNILETSGAVAIAGAAAYCEFYKIKNENIVAIASGANMDFSKLHKVTELAGLGSGKEALLATFMVEQQGSFKTFVGLVGSLNFTELTYRFTSERKNALILYRVNVDKESDLEKMIEDMKSSNMTTLNLSHNELVVDHLKHLVGGSANISDEIFGEFIVPEKAETLKTFLDAFSPRWNITLCRYRNQGDINASLLMGFQVPQAEMDEFKNQADKLGYPYELDNYNEAFNLVVSE |
| 4449 | sp|Q86X45|TILB\_HUMAN | MGWITEDLIRRNAEHNDCVIFSLEELSLHQQEIERLEHIDKWCRDLKILYLQNNLIGKIENVSKLKKLEYLNLALNNIEKIENLEGCEELAKLDLTVNFIGELSSIKNLQHNIHLKELFLMGNPCASFDHYREFVVATLPQLKWLDGKEIEPSERIKALQDYSVIEPQIREQEKDHCLKRAKLKEEAQRKHQEEDKNEDKRSNAGFDGRWYTDINATLSSLESKDHLQAPDTEEHNTKKLDNSEDDLEFWNKPCLFTPESRLETLRHMEKQRKKQEKLSEKKKKVKPPRTLITEDGKALNVNEPKIDFSLKDNEKQIILDLAVYRYMDTSLIDVDVQPTYVRVMIKGKPFQLVLPAEVKPDSSSAKRSQTTGHLVICMPKVGEVITGGQRAFKSMKTTSDRSREQTNTRSKHMEKLEVDPSKHSFPDVTNIVQEKKHTPRRRPEPKIIPSEEDPTFEDNPEVPPLI |
| 4450 | sp|Q960X4|TIP60\_DROME | MKINHKYEFDDDVASICESTAALTEGCRLPVRMHKTDDWPLAEIVSIKELDGRRQFYVHYVDFNKRLDEWVNEEDLYTRKVQFPRRDGSQTGTSTGVTTPQRHHSLAGSVSRPTSPQHPGSGALAAIPQTPTGASGSVPPPAGIPNSVAPPGTPSSGGELVNGNNLAAALQKRINRKRKNHGGSAHGHHSLTSQQQQSHPHPTTPQTPTATPVHVTGDGLISGAANDDGDGSQDGKTPTPRQSGSMVTHQDDVVTRMKNVEMIELGRHRIKPWYFSPYPQELCQMPCIYICEFCLKYRKSRKCLERHLSKCNLRHPPGNEIYRKHTISFFEIDGRKNKVYAQNLCLLAKLFLDHKTLYYDTDPFLFYVMTEFDSRGFHIVGYFSKEKESTEDYNVACILTMPPYQRKGYGKLLIEFSYELSKFEGKTGSPEKPLSDLGLLSYRSYWAQTILEIFISQNPSTDGEKPTITINDICECTSIKKEDVISTLQNLNLINYYKGQYIVCINRVIIEQHRRAMDKRKIRIDSKCLHWTPKDWSKRSK |
| 4451 | sp|Q9H3N1|TMX1\_HUMAN | MAPSGSLAVPLAVLVLLLWGAPWTHGRRSNVRVITDENWRELLEGDWMIEFYAPWCPACQNLQPEWESFAEWGEDLEVNIAKVDVTEQPGLSGRFIITALPTIYHCKDGEFRRYQGPRTKKDFINFISDKEWKSIEPVSSWFGPGSVLMSSMSALFQLSMWIRTCHNYFIEDLGLPVWGSYTVFALATLFSGLLLGLCMIFVADCLCPSKRRRPQPYPYPSKKLLSESAQPLKKVEEEQEADEEDVSEEEAESKEGTNKDFPQNAIRQRSLGPSLATDKS |
| 4452 | sp|Q6ZNK6|TIFAB\_HUMAN | MEKPLTVLRVSLYHPTLGPSAFANVPPRLQHDTSPLLLGRGQDAHLQLQLPRLSRRHLSLEPYLEKGSALLAFCLKALSRKGCVWVNGLTLRYLEQVPLSTVNRVSFSGIQMLVRVEEGTSLEAFVCYFHVSPSPLIYRPEAEETDEWEGISQGQPPPGSG |
| 4453 | sp|P93003|TFL1\_ARATH | MENMGTRVIEPLIMGRVVGDVLDFFTPTTKMNVSYNKKQVSNGHELFPSSVSSKPRVEIHGGDLRSFFTLVMIDPDVPGPSDPFLKEHLHWIVTNIPGTTDATFGKEVVSYELPRPSIGIHRFVFVLFRQKQRRVIFPNIPSRDHFNTRKFAVEYDLGLPVAAVFFNAQRETAARKR |
| 4454 | sp|Q9U1W1|TFG\_CAEEL | MVHSNGAITSTILKARHADVVRKTSLHHANDLTLIDLVLNVQRLLALPSDANFVLKYKDEEGDLVTLAEDSDLLLALHTSGATLDVTVVVDSRAREAVHDVQKQVEQIKLDVGKLLGALSALDVAQIAEQSNTSVANLSAPKQSHHDNIVFQKSFEAAPPSPVPSEKAELPATIQPSVHEQFNHRPAHVEEEIPLENHYAPPPHQQIPDDLNTSFSSQPPPPIEQFGAIPPPNATIPSFPTSNAASPPVQEFAPPPPQQQQQQFQAPPPPMASHSSISSTPVQQQGFAPPQQFGGPPPSGPPSEYGGYAPPQQQQQQFGAPPPQGAPQQGFGAPPQGPPQGGPPQGSFGAPPPQQFHAPSPQSFGGPPPPVSSAPGNFAPPPQSGPPGAFAPPPSAFGAPQGPGGPGGYGPPPPGGPGAPGSYGPPQGGPGGFGPPPPGGPGAYGPPPTGFPPVGAPPPGAAGAPGGNPFARGPSATGYRQSPYQQ |
| 4455 | sp|P56557|TM50B\_HUMAN | MAGFLDNFRWPECECIDWSERRNAVASVVAGILFFTGWWIMIDAAVVYPKPEQLNHAFHTCGVFSTLAFFMINAVSNAQVRGDSYESGCLGRTGARVWLFIGFMLMFGSLIASMWILFGAYVTQNTDVYPGLAVFFQNALIFFSTLIYKFGRTEELWT |
| 4456 | sp|Q06599|TNFA\_BOVIN | MSTKSMIRDVELAEEVLSEKAGGPQGSRSCLCLSLFSFLLVAGATTLFCLLHFGVIGPQREEQSPGGPSINSPLVQTLRSSSQASSNKPVAHVVADINSPGQLRWWDSYANALMANGVKLEDNQLVVPADGLYLIYSQVLFRGQGCPSTPLFLTHTISRIAVSYQTKVNILSAIKSPCHRETPEWAEAKPWYEPIYQGGVFQLEKGDRLSAEINLPDYLDYAESGQVYFGIIAL |
| 4457 | sp|Q92973|TNPO1\_HUMAN | MVWDRQTKMEYEWKPDEQGLQQILQLLKESQSPDTTIQRTVQQKLEQLNQYPDFNNYLIFVLTKLKSEDEPTRSLSGLILKNNVKAHFQNFPNGVTDFIKSECLNNIGDSSPLIRATVGILITTIASKGELQNWPDLLPKLCSLLDSEDYNTCEGAFGALQKICEDSAEILDSDVLDRPLNIMIPKFLQFFKHSSPKIRSHAVACVNQFIISRTQALMLHIDSFIENLFALAGDEEPEVRKNVCRALVMLLEVRMDRLLPHMHNIVEYMLQRTQDQDENVALEACEFWLTLAEQPICKDVLVRHLPKLIPVLVNGMKYSDIDIILLKGDVEEDETIPDSEQDIRPRFHRSRTVAQQHDEDGIEEEDDDDDEIDDDDTISDWNLRKCSAAALDVLANVYRDELLPHILPLLKELLFHHEWVVKESGILVLGAIAEGCMQGMIPYLPELIPHLIQCLSDKKALVRSITCWTLSRYAHWVVSQPPDTYLKPLMTELLKRILDSNKRVQEAACSAFATLEEEACTELVPYLAYILDTLVFAFSKYQHKNLLILYDAIGTLADSVGHHLNKPEYIQMLMPPLIQKWNMLKDEDKDLFPLLECLSSVATALQSGFLPYCEPVYQRCVNLVQKTLAQAMLNNAQPDQYEAPDKDFMIVALDLLSGLAEGLGGNIEQLVARSNILTLMYQCMQDKMPEVRQSSFALLGDLTKACFQHVKPCIADFMPILGTNLNPEFISVCNNATWAIGEISIQMGIEMQPYIPMVLHQLVEIINRPNTPKTLLENTAITIGRLGYVCPQEVAPMLQQFIRPWCTSLRNIRDNEEKDSAFRGICTMISVNPSGVIQDFIFFCDAVASWINPKDDLRDMFCKILHGFKNQVGDENWRRFSDQFPLPLKERLAAFYGV |
| 4458 | sp|Q9QZ47|TNNT3\_MOUSE | MSDEETEQVEEQYEEEEEAQEEEVQEEAPEPEEVQEDAVAEEEREEDEEEEKPRPKLTAPKIPEGEKVDFDDIQKKRQNKDLMELQALIDSHFEARKKEEEELIALKERIEKRRAERAEQQRIRAEKEREPQNRLAEEKARREEEDAKRRAEDDMKKKKALSSMGANYSSYLAKADQKRGKKQTAREMKKKILAERRKPLNIDHLSDDKLRDKAKELWDTLYQLETDKFEFGEKLKRQKYDITTLRSRIDQAQKHSKKAGATAKGKVGGRWK |
| 4459 | sp|Q8N2M4|TM86A\_HUMAN | MVSPVTVVKSEGPKLVPFFKATCVYFVLWLPSSSPSWVSTLIKCLPIFCLWLFLLAHGLGFLLAHPSATRIFVGLVFSAVGDAFLIWQDQGYFVHGLLMFAVTHMFYASAFGMQPLALRTGLVMAALSGLCYALLYPCLSGAFTYLVGVYVALIGFMGWRAMAGLRLAGADWRWTELAAGSGALFFIISDLTIALNKFCFPVPYSRALIMSTYYVAQMLVALSAVESREPVEHYRLTKAN |
| 4460 | sp|Q861W5|TNFL6\_FELCA | MQQPLNYPYPQIYWVDSRASSPWGPPGSVLPCPSSVPGRPGQRRPPPPPPPTLPPPPPPPPLPPLPLPPLKTRRDHNTGLCLLVMFFMVLVALVGLGLGMFQLFHLQKELAELRESTSQKHVASSLEKQIGQLNPPSEKRELRKVAHLTGKPNSRSIPLEWEDTYGIALVSGVKYKKGGLVINDTGMYFVYSKVNFRGQSCNNQPLNHKVYMRNSKYPQDLVLMEGKMMNYCTTGQMWARSSYLGAVFNLTSADHLYVNVSELSLVSFEESKTFFGLYKL |
| 4461 | sp|Q5JTV8|TOIP1\_HUMAN | MAGDGRRAEAVREGWGVYVTPRAPIREGRGRLAPQNGGSSDAPAYRTPPSRQGRREVRFSDEPPEVYGDFEPLVAKERSPVGKRTRLEEFRSDSAKEEVRESAYYLRSRQRRQPRPQETEEMKTRRTTRLQQQHSEQPPLQPSPVMTRRGLRDSHSSEEDEASSQTDLSQTISKKTVRSIQEAPVSEDLVIRLRRPPLRYPRYEATSVQQKVNFSEEGETEEDDQDSSHSSVTTVKARSRDSDESGDKTTRSSSQYIESFWQSSQSQNFTAHDKQPSVLSSGYQKTPQEWAPQTARIRTRMQNDSILKSELGNQSPSTSSRQVTGQPQNASFVKRNRWWLLPLIAALASGSFWFFSTPEVETTAVQEFQNQMNQLKNKYQGQDEKLWKRSQTFLEKHLNSSHPRSQPAILLLTAARDAEEALRCLSEQIADAYSSFRSVRAIRIDGTDKATQDSDTVKLEVDQELSNGFKNGQNAAVVHRFESFPAGSTLIFYKYCDHENAAFKDVALVLTVLLEEETLGTSLGLKEVEEKVRDFLKVKFTNSNTPNSYNHMDPDKLNGLWSRISHLVLPVQPENALKRGICL |
| 4462 | sp|D3ZF92|TNR21\_RAT | MGTSASSITALASCSRIAGQVGATMVAGSLLLLGFLSTITAQPEQKTLSLTGTYRHVDRTTGQVLTCDKCPAGTYVSEHCTNTSLRVCSSCPSGTFTRHENGIERCHDCSQPCPRPMIERLPCAALTDRECICPPGMYQSNGTCAPHTVCPVGWGVRKKGTENEDVRCKQCARGTFSDVPSSVMKCRAHTDCLGQNLMVVKQGTKETDNVCGVHLSSSSTTPSSPGIATFSHPEHTESHDVPSSTYEPQGMNSTDSNSTASVRTKVPSDIQEETVPDNTSSTSGKESTNRTLPNPPQLTHQQGPHHRHILKLLPSSMEATGEKSSTAIKAPKRGHPRQNPHKHFDINEHLPWMIVLFLLLVLVLIVVCSIRKSSRTLKKGPRQDPSAIMEKAGLKKSLTPTQNREKWIYYRNGHGIDILKLVAAQVGSQWKDIYQFLCNASEREVAAFSNGYTADHERAYAALQHWTIRGPEASLAQLISALRQHRRNDVVEKIRGLMEDTTQLETDKLALPMSPSPLSPSPIPSPNVKLENSTLLTVEPSPLDKNKGFFVDESEPLLRCDSTSSGSSALSRNGSFITKEKKDTVLRQVRLDPCDLQPIFDDMLHILNPEELRVIEEIPQAEDKLDRLFEIIGVKSQEASQTLLDSVYSHLPDLL |
| 4463 | sp|Q8R138|TM119\_MOUSE | MVPWFLLSLLLLARPVPGVAYSVSLPASFLEDVAGSGEAEGSSASSPSLPPPGTPAFSPTPERPQPTALDGPVPPTNLLEGIMDFFRQYVMLIAVVGSLTFLIMFIVCAALITRQKHKATAYYPSSFPEKKYVDQRDRAGGPRTFSEVPDRAPDSRHEEGLDTSHQLQADILAATQNLRSPARALPGNGEGAKPVKGGSEEEEEEVLSGQEEAQEAPVCGVTEEKLGVPEESVSAEAEGVPATSEGQGEAEGSFSLAQESQGATGPPESPCACNRVSPSV |
| 4464 | sp|P23254|TKT1\_YEAST | MTQFTDIDKLAVSTIRILAVDTVSKANSGHPGAPLGMAPAAHVLWSQMRMNPTNPDWINRDRFVLSNGHAVALLYSMLHLTGYDLSIEDLKQFRQLGSRTPGHPEFELPGVEVTTGPLGQGISNAVGMAMAQANLAATYNKPGFTLSDNYTYVFLGDGCLQEGISSEASSLAGHLKLGNLIAIYDDNKITIDGATSISFDEDVAKRYEAYGWEVLYVENGNEDLAGIAKAIAQAKLSKDKPTLIKMTTTIGYGSLHAGSHSVHGAPLKADDVKQLKSKFGFNPDKSFVVPQEVYDHYQKTILKPGVEANNKWNKLFSEYQKKFPELGAELARRLSGQLPANWESKLPTYTAKDSAVATRKLSETVLEDVYNQLPELIGGSADLTPSNLTRWKEALDFQPPSSGSGNYSGRYIRYGIREHAMGAIMNGISAFGANYKPYGGTFLNFVSYAAGAVRLSALSGHPVIWVATHDSIGVGEDGPTHQPIETLAHFRSLPNIQVWRPADGNEVSAAYKNSLESKHTPSIIALSRQNLPQLEGSSIESASKGGYVLQDVANPDIILVATGSEVSLSVEAAKTLAAKNIKARVVSLPDFFTFDKQPLEYRLSVLPDNVPIMSVEVLATTCWGKYAHQSFGIDRFGASGKAPEVFKFFGFTPEGVAERAQKTIAFYKGDKLISPLKKAF |
| 4465 | sp|P01848|TRAC\_HUMAN | IQNPDPAVYQLRDSKSSDKSVCLFTDFDSQTNVSQSKDSDVYITDKTVLDMRSMDFKSNSAVAWSNKSDFACANAFNNSIIPEDTFFPSPESSCDVKLVEKSFETDTNLNFQNLSVIGFRILLLKVAGFNLLMTLRLWSS |
| 4466 | sp|Q07824|TPO1\_YEAST | MSDHSPISNKENHLLPSDSSRSSSSDMHSTGTTGTTGVEPVDFTGEGAKYTTATEGNGGADLAIQRTTTMNSAAESEVNITRRLTKILTGSVNEPDRVEVDYTNCAPMGGDRPYPPSLPSRDLYEVTFDGPNDPLHPFNWPMKKKVLLCLVLCLDSIAIAMCSSIFASAVPQICEIYHVIEVVAILGITLFVLGFAASPVIYAPLSELYGRKGVLVLSAFGFALFQFAVATAENLQTIFICRFFGGFIGAAPMAVVPAAFADMFDTNVRGKAIALFSLGVFVGPILSPVMGSYIAQRTTWRWLEYVVGCFASAVFVAIVLFFEETHHPTILVNKAKQMRKQSNNWGIHAAHEDVELSIKDIVQKTVTRPIIMLFVEPLLLFVTIYNSFVYGILYLLLEAYPLVFVEGYGFTENGELPYIALIIGMMVCAAFIWYMDNDYLKRCRAKGKLVPEARLYAMVIAGTVFPIGILWFCWTGYYPHKIHWMVPTVGGAFIGFGLMGIFLPCLNYIIESYLLLAASAVAANTFMRSAFGACFPLFAGYMFRGMGIGWAGLLLGLFAAAMIPVPLLFLKYGESIRKKSKYAYAA |
| 4467 | sp|P07273|TFS2\_YEAST | MDSKEVLVHVKNLEKNKSNDAAVLEILHVLDKEFVPTEKLLRETKVGVEVNKFKKSTNVEISKLVKKMISSWKDAINKNKRSRQAQQHHQDHAPGNAEDKTTVGESVNGVQQPASSQSDAMKQDKYVSTKPRNSKNDGVDTAIYHHKLRDQVLKALYDVLAKESEHPPQSILHTAKAIESEMNKVNNCDTNEAAYKARYRIIYSNVISKNNPDLKHKIANGDITPEFLATCDAKDLAPAPLKQKIEEIAKQNLYNAQGATIERSVTDRFTCGKCKEKKVSYYQLQTRSADEPLTTFCTCEACGNRWKFS |
| 4468 | sp|Q15388|TOM20\_HUMAN | MVGRNSAIAAGVCGALFIGYCIYFDRKRRSDPNFKNRLRERRKKQKLAKERAGLSKLPDLKDAEAVQKFFLEEIQLGEELLAQGEYEKGVDHLTNAIAVCGQPQQLLQVLQQTLPPPVFQMLLTKLPTISQRIVSAQSLAEDDVE |
| 4469 | sp|P15348|TOP2\_DROME | MENGNKALSIEQMYQKKSQLEHILLRPDSYIGSVEFTKELMWVYDNSQNRMVQKEISFVPGLYKIFDEILVNAADNKQRDKSMNTIKIDIDPERNMVSVWNNGQGIPVTMHKEQKMYVPTMIFGHLLTSSNYNDDEKKVTGGRNGYGAKLCNIFSTSFTVETATREYKKSFKQTWGNNMGKASDVQIKDFNGTDYTRITFSPDLAKFKMDRLDEDIVALMSRRAYDVAASSKGVSVFLNGNKLGVRNFKDYIDLHIKNTDDDSGPPIKIVHEVANERWEVACCPSDRGFQQVSFVNSIATYKGGRHVDHVVDNLIKQLLEVLKKKNKGGINIKPFQVRNHLWVFVNCLIENPTFDSQTKENMTLQQKGFGSKCTLSEKFINNMSKSGIVESVLAWAKFKAQNDIAKTGGRKSSKIKGIPKLEDANEAGGKNSIKCTLILTEGDSAKSLAVSGLGVIGRDLYGVFPLRGKLLNVREANFKQLSENAEINNLCKIIGLQYKKKYLTEDDLKTLRYGKVMIMTDQDQDGSHIKGLLINFIHTNWPELLRLPFLEEFITPIVKATKKNEELSFYSLPEFEEWKNDTANHHTYNIKYYKGLGTSTSKEAKEYFQDMDRHRILFKYDGSVDDESIVMAFSKKHIESRKVWLTNHMDEVKRRKELGLPERYLYTKGTKSITYADFINLELVLFSNADNERSIPSLVDGLKPGQRKVMFTCFKRNDKREVKVAQLSGSVAEMSAYHHGEVSLQMTIVNLAQNFVGANNINLLEPRGQFGTRLSGGKDCASARYIFTIMSPLTRLIYHPLDDPLLDYQVDDGQKIEPLWYLPIIPMVLVNGAEGIGTGWSTKISNYNPREIMKNLRKMINGQEPSVMHPWYKNFLGRMEYVSDGRYIQTGNIQILSGNRLEISELPVGVWTQNYKENVLEPLSNGTEKVKGIISEYREYHTDTTVRFVISFAPGEFERIHAEEGGFYRVFKLTTTLSTNQMHAFDQNNCLRRFPTAIDILKEYYKLRREYYARRRDFLVGQLTAQADRLSDQARFILEKCEKKLVVENKQRKAMCDELLKRGYRPDPVKEWQRRIKMEDAEQADEEDEEEEEAAPSVSSKAKKEKEVDPEKAFKKLTDVKKFDYLLGMSMWMLTEEKKNELLKQRDTKLSELESLRKKTPEMLWLDDLDALESKLNEVEEKERAEEQGINLKTAKALKGQKSASAKGRKVKSMGGGAGAGDVFPDPDGEPVEFKITEEIIKKMAAAAKVAQAAKEPKKPKEPKEPKVKKEPKGKQIKAEPDASGDEVDEFDAMVEGGSKTSPKAKKAVVKKEPGEKKPRQKKENGGGLKQSKIDFSKAKAKKSDDDVEEVTPRAERPGRRQASKKIDYSSLFSDEEEDGGNVGSDDDGNASDDDSPKRPAKRGREDESSGGAKKKAPPKKRRAVIESDDDDIEIDEDDDDDSDFNC |
| 4470 | sp|P18475|TORSO\_DROME | MLIFYAKYAFIFWFFVGSNQGEMLLMDKISHDKTLLNVTACTQNCLEKGQMDFRSCLKDCRINGTFPGALRKVQENYQMNMICRTESEIVFQIDWVQHSRGTEPAPNATYIIRVDAVKDDNKETALYLSDDNFLILPGLESNSTHNITALAMHGDGSYSLIAKDQTFATLIRGYQPSKMGAVNLLRFVPQPDDLHHIAAEIEWKPSAESNCYFDMVSYSTNSVNMDEPLEVQFRDRKKLYRHTVDNLEFDKQYHVGVRTVNIMNRLESDLQWLPIAVPSCLDWYPYNYTLCPPHKPENLTVTQKQYLPNILALNITWARPRYLPDNYTLHIFDLFKGGTELNYTLDQNRSHFYVPKITVLGSHFEVHLVAQSAGGKNVSGLTLDKVHRGVLLSEGNMVKLVLFIIVPICCILMLCSLTFCRRNRSEVQALQMDAKDAKASEFHLSLMDSSGLLVTLSANESLEVMDELEVEPHSVLLQDVLGEGAFGLVRRGVYKKRQVAVKLLKDEPNDEDVYAFKCEIQMLKAVGKHPNIVGIVGYSTRFSNQMMLLIEYCSLGSLQNFLREEWKFRQEQNAIGLKKNLEQNVDNRRFNRLPRNSIHDRIEDINNSMLSTVEEESESDQTHSSRCETYTLTRITNAADNKGYGLEDIENIGGSYIPKTAEAPKDRPKRKLKPQPKKDSKQDFKSDNKKRIFENKEYFDCLDSSDTKPRIPLKYADLLDIAQQVAVGMEFLAQNKVVHRDLAARNVLISVDRSIKIADFGLSRDVYHENVYRKSGGSGKLPIKWLALESLTHQVYTSQSDVWSFGVLLYEITTLGGMPYPSVSPSDLLQLLRQGHRMKRPEGCTQEMFSLMESCWSSVPSHRPTFSALKHRLGGMILATNDVPERLKQLQAATESKLKSCDGLNSKVEQVPCEEELYLEPLN |
| 4471 | sp|Q9ER41|TOR1B\_MOUSE | MRRIGAFGGSTALWALLAAHVAGAFEPVSVGIAIGAVSALTGYLSYTDFYCRFTECCHEERPLNTSALKLDLEEKLFGQHLATEVILKALTGFRNNKNSKKPLTLSLHGWAGTGKNFISQIVAENLYPKGLKSNFVHLFVSTLHFPHEQKIKVYQDQLQKWIRGNVSACGSSVFIFDEMDKLHPGIIDAIKPFLDYYEQVDGISYRRAIFIFLSNAGGDLITKTALDFWRAGRKREEIQLKDLEPVLSVGVFNNKHSGLWHSGLIDKNLIDYFIPFLPLEYKHVKMCVRAEMRARGAAVDEDVVTSVADEMTFFPKDEKIYSDKGCKTVQSRLDFH |
| 4472 | sp|Q9Z273|TULP1\_MOUSE | MPLQEETLREVWASDSGHEEDCLSPEPPLRPKQRPAQGQKLRKKKPETPDSLESKPRKAGAGRRKHEEPPADSAEPRAAQTVYAKFLRDPEAKKRDPRENFLVARAPDLGGEENSEEDSDDDDNDDDEEEEEKKEGKKEKSSLPPKKAPKEREKKAKALGPRGDVGSPDAPRKPLRTKKKEVGEGTKLRKAKKKGPGETDKDPAGSPAALRKEFPAAMFLVGEGGAAEKGVKKKGPPKGSEEEKKEEEEEVEEEVASAVMKNSNQKGRAKGKGKKKVKEERASSPPVEVGEPREFVLQPAPQGRAVRCRLTRDKKGMDRGMYPSYFLHLDTEKKVFLLAGRKRKRSKTANYLISSDPTNLSRGGENFIGKLRSNLLGNRFTVFDNGQNPQRGGGGDVGSLRQELAAVVYETNVLGFRGPRRMTVIIPGMNSDNERVPIRPRNASDGLLVRWQNKTLESLIELHNKPPIWNEDSGSYTLNFQGRVTQASVKNFQIVHADDPDYIVLQFGRVAEDAFTLDYRYPLCALQAFAIALSSFDGKLACE |
| 4473 | sp|P02930|TOLC\_ECOLI | MKKLLPILIGLSLSGFSSLSQAENLMQVYQQARLSNPELRKSAADRDAAFEKINEARSPLLPQLGLGADYTYSNGYRDANGINSNATSASLQLTQSIFDMSKWRALTLQEKAAGIQDVTYQTDQQTLILNTATAYFNVLNAIDVLSYTQAQKEAIYRQLDQTTQRFNVGLVAITDVQNARAQYDTVLANEVTARNNLDNAVEQLRQITGNYYPELAALNVENFKTDKPQPVNALLKEAEKRNLSLLQARLSQDLAREQIRQAQDGHLPTLDLTASTGISDTSYSGSKTRGAAGTQYDDSNMGQNKVGLSFSLPIYQGGMVNSQVKQAQYNFVGASEQLESAHRSVVQTVRSSFNNINASISSINAYKQAVVSAQSSLDAMEAGYSVGTRTIVDVLDATTTLYNAKQELANARYNYLINQLNIKSALGTLNEQDLLALNNALSKPVSTNPENVAPQTPEQNAIADGYAPDSPAPVVQQTSARTTTSNGHNPFRN |
| 4474 | sp|Q96LD4|TRI47\_HUMAN | MDGSGPFSCPICLEPLREPVTLPCGHNFCLACLGALWPHRGASGAGGPGGAARCPLCQEPFPDGLQLRKNHTLSELLQLRQGSGPGSGPGPAPALAPEPSAPSALPSVPEPSAPCAPEPWPAGEEPVRCDACPEGAALPAALSCLSCLASFCPAHLGPHERSPALRGHRLVPPLRRLEESLCPRHLRPLERYCRAERVCLCEACAAQEHRGHELVPLEQERALQEAEQSKVLSAVEDRMDELGAGIAQSRRTVALIKSAAVAERERVSRLFADAAAALQGFQTQVLGFIEEGEAAMLGRSQGDLRRQEEQRSRLSRARQNLSQVPEADSVSFLQELLALRLALEDGCGPGPGPPRELSFTKSSQAVRAVRDMLAVACVNQWEQLRGPGGNEDGPQKLDSEADAEPQDLESTNLLESEAPRDYFLKFAYIVDLDSDTADKFLQLFGTKGVKRVLCPINYPLSPTRFTHCEQVLGEGALDRGTYYWEVEIIEGWVSMGVMAEDFSPQEPYDRGRLGRNAHSCCLQWNGRSFSVWFHGLEAPLPHPFSPTVGVCLEYADRALAFYAVRDGKMSLLRRLKASRPRRGGIPASPIDPFQSRLDSHFAGLFTHRLKPAFFLESVDAHLQIGPLKKSCISVLKRR |
| 4475 | sp|O22822|U74F2\_ARATH | MEHKRGHVLAVPYPTQGHITPFRQFCKRLHFKGLKTTLALTTFVFNSINPDLSGPISIATISDGYDHGGFETADSIDDYLKDFKTSGSKTIADIIQKHQTSDNPITCIVYDAFLPWALDVAREFGLVATPFFTQPCAVNYVYYLSYINNGSLQLPIEELPFLELQDLPSFFSVSGSYPAYFEMVLQQFINFEKADFVLVNSFQELELHENELWSKACPVLTIGPTIPSIYLDQRIKSDTGYDLNLFESKDDSFCINWLDTRPQGSVVYVAFGSMAQLTNVQMEELASAVSNFSFLWVVRSSEEEKLPSGFLETVNKEKSLVLKWSPQLQVLSNKAIGCFLTHCGWNSTMEALTFGVPMVAMPQWTDQPMNAKYIQDVWKAGVRVKTEKESGIAKREEIEFSIKEVMEGERSKEMKKNVKKWRDLAVKSLNEGGSTDTNIDTFVSRVQSK |
| 4476 | sp|O60635|TSN1\_HUMAN | MQCFSFIKTMMILFNLLIFLCGAALLAVGIWVSIDGASFLKIFGPLSSSAMQFVNVGYFLIAAGVVVFALGFLGCYGAKTESKCALVTFFFILLLIFIAEVAAAVVALVYTTMAEHFLTLLVVPAIKKDYGSQEDFTQVWNTTMKGLKCCGFTNYTDFEDSPYFKENSAFPPFCCNDNVTNTANETCTKQKAHDQKVEGCFNQLLYDIRTNAVTVGGVAAGIGGLELAAMIVSMYLYCNLQ |
| 4477 | sp|P10627|TWIST\_DROME | MMSARSVSPKVLLDISYKPTLPNIMELQNNVIKLIQVEQQAYMQSGYQLQHQQQHLHSHQHHQQHHQQQHAQYAPLPSEYAAYGITELEDTDYNIPSNEVLSTSSNQSAQSTSLELNNNNTSSNTNSSGNNPSGFDGQASSGSSWNEHGKRARSSGDYDCQTGGSLVMQPEHKKLIHQQQQQQQQHQQQIYVDYLPTTVDEVASAQSCPGVQSTCTSPQSHFDFPDEELPEHKAQVFLPLYNNQQQQSQQLQQQQPHQQSHAQMHFQNAYRQSFEGYEPANSLNGSAYSSSDRDDMEYARHNALSSVSDLNGGVMSPACLADDGSAGSLLDGSDAGGKAFRKPRRRLKRKPSKTEETDEFSNQRVMANVRERQRTQSLNDAFKSLQQIIPTLPSDKLSKIQTLKLATRYIDFLCRMLSSSDISLLKALEAQGSPSAYGSASSLLSAAANGAEADLKCLRKANGAPIIPPEKLSYLFGVWRMEGDAQHQKA |
| 4478 | sp|Q9EP52|TWSG1\_MOUSE | MKSHYIVLALASLTFLLCLPVSQSCNKALCASDVSKCLIQELCQCRPGEGNCPCCKECMLCLGALWDECCDCVGMCNPRNYSDTPPTSKSTVEELHEPIPSLFRALTEGDTQLNWNIVSFPVAEELSHHENLVSFLETVNQLHHQNVSVPSNNVHAPFPSDKERMCTVVYFDDCMSIHQCKISCESMGASKYRWFHNACCECIGPECIDYGSKTVKCMNCMF |
| 4479 | sp|Q8R3S2|TSN33\_MOUSE | MARRPGVPAAYGDEFSFVSPLVKYLLFFFNMLFWVISMVMVAVGVYARLMKHAEAALACLAVDPAILLIVVGVLMFLLTFCGCIGSLRENICLLQTFSLCLTIVFLLQLAAGILGFVFSDKARGKVSEIINNAIVHYRDDLDLQNLIDFGQKKFSCCGGISYRDWSQNMYFNCSEDNPSRERCSVPYSCCLPTPNQAVINTMCGQGMQALDYLEASKVIYTNGCIDKLVNWIHSNLFLLGGVALGLAIPQLVGILLSQVLVNQIKDQIKLQLYNQQHRADPWY |
| 4480 | sp|Q99598|TSNAX\_HUMAN | MSNKEGSGGFRKRKHDNFPHNQRREGKDVNSSSPVMLAFKSFQQELDARHDKYERLVKLSRDITVESKRTIFLLHRITSAPDMEDILTESEIKLDGVRQKIFQVAQELSGEDMHQFHRAITTGLQEYVEAVSFQHFIKTRSLISMDEINKQLIFTTEDNGKENKTPSSDAQDKQFGTWRLRVTPVDYLLGVADLTGELMRMCINSVGNGDIDTPFEVSQFLRQVYDGFSFIGNTGPYEVSKKLYTLKQSLAKVENACYALKVRGSEIPKHMLADVFSVKTEMIDQEEGIS |
| 4481 | sp|Q0WX57|U17LO\_HUMAN | MEDDSLYLRGEWQFNHFSKLTSSRPDAAFAEIQRTSLPEKSPLSCETRVDLCDDLAPVARQLAPREKLPLSSRRPAAVGAGLQNMGNTCYVNASLQCLTYTPPLANYMLSREHSQTCHRHKGCMLCTMQAHITRALHNPGHVIQPSQALAAGFHRGKQEDAHEFLMFTVDAMKKACLPGHKQVDHHSKDTTLIHQIFGGYWRSQIKCLHCHGISDTFDPYLDIALDIQAAQSVQQALEQLVKPEELNGENAYHCGVCLQRAPASKTLTLHTSAKVLILVLKRFSDVTGNKIAKNVQYPECLDMQPYMSQPNTGPLVYVLYAVLVHAGWSCHNGHYFSYVKAQEGQWYKMDDAEVTASSITSVLSQQAYVLFYIQKSEWERHSESVSRGREPRALGAEDTDRRATQGELKRDHPCLQAPELDEHLVERATQESTLDHWKFLQEQNKTKPEFNVRKVEGTLPPDVLVIHQSKYKCGMKNHHPEQQSSLLNLSSSTPTHQESMNTGTLASLRGRARRSKGKNKHSKRALLVCQ |
| 4482 | sp|P47973|TTP\_RAT | MDLSAIYESLMSMSHDLSPDHGGTESSGGLWNINSSDSIPSGVTSRLTGRSTSLVEGRSCSWVPPPPGFAPLAPRPGPELSPSPTSPTATPTTSSRYKTELCRTYSESGRCRYGAKCQFAHGPGELRQANRHPKYKTELCHKFYLQGRCPYGSRCHFIHNPTEDLALPGQPHVLRQSISFSGLPSGRRTSPPPPGFSGPSLSSCSFSPSSSPPPPGDLPLSPSAFSAAPGTPVSRRDPTPACCPSCRRSTTPSTIWGPLGGLARSPSAHSLGSDPDDYASSGSSLGGSDSPVFEAGVFGPPQPPAPPRRLPIFNRISVSE |
| 4483 | sp|P62760|VISL1\_HUMAN | MGKQNSKLAPEVMEDLVKSTEFNEHELKQWYKGFLKDCPSGRLNLEEFQQLYVKFFPYGDASKFAQHAFRTFDKNGDGTIDFREFICALSITSRGSFEQKLNWAFNMYDLDGDGKITRVEMLEIIEAIYKMVGTVIMMKMNEDGLTPEQRVDKIFSKMDKNKDDQITLDEFKEAAKSDPSIVLLLQCDIQK |
| 4484 | sp|P53767|VGFR1\_RAT | MVSCWDTAVLPCALLGCLLLTGYCSGSKLKGPELSLKGTQHVMQAGQTLFLKCRGEAAHSWSLPTTVSQEDKKLSVTRSACGRNNRQFCSTLTLNMAQANHTGLYSCRYLPKSTSKEKKMESAIYIFVSDAGSPFIEMHSDIPKLVHMTEGRELIIPCRVTSPNITVTLKKFPFDALTPDGQRIAWDSRRGFIIANATYKEIGLLTCEATVNGHLYQTSYLTHRQTNTILDVQISPPSPVRFLRGQTLVLNCTVTTDLNTRVQMSWNYPGKATKRASIRQRIDQSNPHSNVFHSVLKINNVESRDKGLYTCRVKSGSSFRTFNTSVHVYEKGFISVKHRKQQVQETIAGKRSHRLSMKVKAFPSPEVVWLKDGVPATEKSARYSVHGYSLIIKDVTAEDAGDYTILLGIKQSKLFRNLTATLIVNVKPQIYEKSVSSLPSPPLYPLGSRQVLTCTVYGIPQPTIKWLWHPCHYNHSKERNDFCFGSEESFILDSSSNIGNRIEGITQRMMVIEGTNKTVSTLVVADSRTPGSYSCKAFNKIGTVERDIRFYVTDVPNGFHVSLEKIPTEGEDLKLSCVVSKFLYRDITWILLRTVNNRTMHHSISKQKMATTQDYSITLNLVIKNVSLEDSGTYACRARNIYTGEEILRKTEVLVRDLEAPLLLQNLSDHEVSISGSTTLDCQARGVPAPQITWFKNNHKIQQEPGIILGPGNSTLFIERVTEEDEGVYRCRATNQKGVVESSAYLTVQGTSDKSNLELITLTCTCVAATLFWLLLTLFIRKLKRSSSEVKTDYLSIIMDPDEVPLDEQCERLPYDASKWEFARERLKLGKSLGRGAFGKVVQASAFGIKKSPTCRTVAVKMLKEGATASEYKALMTELKILTHIGHHLNVVNLLGACTKQGGPLMVIVEYCKYGNLSNYLKSKRDFFCLNKDAALHMEPKKEKLEPDLEQDQKPRLDSVSSSESFTSSGFQEDKSVSDVEGGEDYSEISKQPLTMEDLISYSFQVARGMEFLSSRKCIHRDLAARNILLSENNVVKICDFGLARDIYKNPDYVRRGDTRLPLKWMAPESIFDKVYSTKSDVWSYGVLLWEIFSLGGSPYPGVQMDEDFCSRLKEGMRMRTPEYATPEIYQIMLDCWHKDPKERPRFAELVEKLGDLLQANVQQDGKDYIPLNAILTRNSGFTYSVPTFSEDFFKDGFTDPKFHSGSSDDVRYVNAFKFMSLERIKTFEELSPNATSMFEDYHLDTSSLLTSPLLKRFTWTETKPKASMKIDLRITSKSKEAGLSDLPGPSFCFSSCGHIRPVRQEDEDDPELGKESCCSPPPDYNSVVLYSSPPA |
| 4485 | sp|P05928|VPR\_HV1BR | MEQAPEDQGPQREPHNEWTLELLEELKNEAVRHFPRIWLHGLGQHIYETYGDTWAGVEAIIRILQQLLFIHFRIGCRHSRIGVTQQRRARNGASRS |
| 4486 | sp|Q5KU39|VPS41\_MOUSE | MAEAEEQETESLEESTDESEEESEEEPKLKYERLSNGVTEILQKDAASCMTVHDKFLALGTHYGKVYLLDVQGNITQKFDVSPVKINQISLDDSGEHMGVCSEDGKLQVFGLYSGEEFHETFDCPIKIIAVHPQFVRSSCKQFVTGGKKLLLFERTWMNRWKSSVLHEGEGNIRSVKWRGHLIAWANNMGVKVFDITSKQRISNVPRDDISLRPDMYPCSLCWKDNVTLIIGWGTSIKICSVKERHASEMRDLPSRYVEIVSQFETEFYISGLAPLCDQLVVLSYVKEVSEKTEREYCARPRLDIIQPLPETCEEISSDALTVRGFQENECRDYHLEYSEGESLFYVVSPRDVVVAKERDQDDHIDWLLEKKKYEEALMAAEISQRNIKRHKILDIGLAYVNHLVERGEYDMAARKCQKILGKNASLWEYEVYKFKEIGQLKAISPYLPRGDPVLKPLIYEMILHEFLESDYEGFATLIREWPGDLYNNSVIVQAVRDHLKKDSQNKTLLKTLAELYTYDKNYGNALEIYLTLRHKDVFQLIHKHNLFSSIKDKIVLLMDFDSEKAVDMLLDNEDKISIKKVVEELEDRPELQHVYLHKLFKRDHHKGQRYHEKQISLYAEYDRPNLLPFLRDSTHCPLEKALEICQQRNFVEETVYLLSRMGNSRSALKMIMEELHDVDKAIEFAKEQDDGELWEDLILYSIDKPPFITGLLNNIGTHVDPILLIHRIKEGMEIPNLRDSLVKILQDYNLQILLREGCKKILVADSLSLLKKMHRTQMKGVLVDEENICESCLSPILPTDAAKPFSVVVFHCRHMFHKECLPMPSMNAPAQYCNICSAKNRGPGSAILEMKK |
| 4487 | sp|Q9LFH0|AB37G\_ARATH | MAHMVGADDIESLRVELAEIGRSIRSSFRRHTSSFRSSSSIYEVENDGDVNDHDAEYALQWAEIERLPTVKRMRSTLLDDGDESMTEKGRRVVDVTKLGAVERHLMIEKLIKHIENDNLKLLKKIRRRIDRVGMELPTIEVRYESLKVVAECEVVEGKALPTLWNTAKRVLSELVKLTGAKTHEAKINIINDVNGIIKPGRLTLLLGPPSCGKTTLLKALSGNLENNLKCSGEISYNGHRLDEFVPQKTSAYISQYDLHIAEMTVRETVDFSARCQGVGSRTDIMMEVSKREKEKGIIPDTEVDAYMKAISVEGLQRSLQTDYILKILGLDICAEILIGDVMRRGISGGQKKRLTTAEMIVGPTKALFMDEITNGLDSSTAFQIVKSLQQFAHISSATVLVSLLQPAPESYDLFDDIMLMAKGRIVYHGPRGEVLNFFEDCGFRCPERKGVADFLQEVISKKDQAQYWWHEDLPYSFVSVEMLSKKFKDLSIGKKIEDTLSKPYDRSKSHKDALSFSVYSLPNWELFIACISREYLLMKRNYFVYIFKTAQLVMAAFITMTVFIRTRMGIDIIHGNSYMSALFFALIILLVDGFPELSMTAQRLAVFYKQKQLCFYPAWAYAIPATVLKVPLSFFESLVWTCLSYYVIGYTPEASRFFKQFILLFAVHFTSISMFRCLAAIFQTVVASITAGSFGILFTFVFAGFVIPPPSMPAWLKWGFWANPLSYGEIGLSVNEFLAPRWNQMQPNNFTLGRTILQTRGMDYNGYMYWVSLCALLGFTVLFNIIFTLALTFLKSPTSSRAMISQDKLSELQGTEKSTEDSSVRKKTTDSPVKTEEEDKMVLPFKPLTVTFQDLNYFVDMPVEMRDQGYDQKKLQLLSDITGAFRPGILTALMGVSGAGKTTLLDVLAGRKTSGYIEGDIRISGFPKVQETFARVSGYCEQTDIHSPNITVEESVIYSAWLRLAPEIDATTKTKFVKQVLETIELDEIKDSLVGVTGVSGLSTEQRKRLTIAVELVANPSIIFMDEPTTGLDARAAAIVMRAVKNVADTGRTIVCTIHQPSIDIFEAFDELVLLKRGGRMIYTGPLGQHSRHIIEYFESVPEIPKIKDNHNPATWMLDVSSQSVEIELGVDFAKIYHDSALYKRNSELVKQLSQPDSGSSDIQFKRTFAQSWWGQFKSILWKMNLSYWRSPSYNLMRMMHTLVSSLIFGALFWKQGQNLDTQQSMFTVFGAIYGLVLFLGINNCASALQYFETERNVMYRERFAGMYSATAYALGQVVTEIPYIFIQAAEFVIVTYPMIGFYPSAYKVFWSLYSMFCSLLTFNYLAMFLVSITPNFMVAAILQSLFYVGFNLFSGFLIPQTQVPGWWIWLYYLTPTSWTLNGFISSQYGDIHEEINVFGQSTTVARFLKDYFGFHHDLLAVTAVVQIAFPIALASMFAFFVGKLNFQRR |
| 4488 | sp|Q8TGA1|AFLB\_ASPPU | MGSVSREHESIPIQAAQRGAARICAAFGGQGSNNLDVLKGLLELYKRYGPDLDELLDVASNTLSQLASSPAAIDVHEPWGFDLRQWLTTPEVAPSKEILALPPRSFPLNTLLSLALYCATCRELELDPGQFRSLLHSSTGHSQGILAAVAITQAESWPTFYDACRTVLQISFWIGLEAYLFTPSSAASDAMIQDCIEHGEGLLSSMLSVSGLSRSQVERVIEHVNKGLGECNRWVHLALVNSHEKFVLAGPPQSLWAVCLHVRRIRADNDLDQSRILFRNRKPIVDILFLPISAPFHTPYLDGVQDRVIEALSSASLALHSIKIPLYHTGTGSNLQELQPHQLIPTLIRAITVDQLDWPLVCRGLNATHVLDFGPGQTCSLIQELTQGTGVSVIQLTTQSGPKPVGGHLAAVNWEAEFGLRLHANVHGAAKLHNRMTTLLGKPPVMVAGMTPTTVRWDFVAAVAQAGYHVELAGGGYHAERQFEAEIRRLATAIPADHGITCNLLYAKPTTFSWQISVIKDLVRQGVPVEGITIGAGIPSPEVVQECVQSIGLKHISFKPGSFEAIHQVIQIARTHPNFLIGLQWTAGRGGGHHSWEDFHGPILATYAQIRSCPNILLVVGSGFGGGPDTFPYLTGQWAQAFGYPCMPFDGVLLGSRMMVAREAHTSAQAKRLIIDAQGVGDADWHKSFDEPTGGVVTVNSEFGQPIHVLATRGVMLWKELDNRVFSIKDTSKRLEYLRNHRQEIVSRLNADFARPWFAVDGHGQNVELEDMTYLEVLRRLCDLTYVSHQKRWVDPSYRILLLDFVHLLRERFQCAIDNPGEYPLDIIVRVEESLKDKAYRTLYPEDVSLLMHLFSRRDIKPVPFIPRLDERFETWFKKDSLWQSEDVEAVIGQDVQRIFIIQGPMAVQYSISDDESVKDILHNICNHYVEALQADSRETSIGDVHSITQKPLSAFPGLKVTTNRVQGLYKFEKVGAVPEMDVLFEHIVGLSKSWARTCLMSKSVFRDGSRLHNPIRAALQLQRGDTIEVLLTADSEIRKIRLISPTGDGGSTSKVVLEIVSNDGQRVFATLAPNIPLSPEPSVVFCFKVDQKPNEWTLEEDASGRAERIKALYMSLWNLGFPNKASVLGLNSQFTGEELMITTDKIRDFERVLRQTSPLQLQSWNPQGCVPIDYCVVIAWSALTKPLMVSSLKCDLLDLLHSAISFHYAPSVKPLRVGDIVKTSSRILAVSVRPRGTMLTVSADIQRQGQHVVTVKSDFFLGGPVLACETPFELTEEPEMVVHVDSEVRRAILHSRKWLMREDRALDLLGRQLLFRLKSEKLFRPDGQLALLQVTGSVFSYSPDGSTTAFGRVYFESESCTGNVVMDFLHRYGAPRAQLLELQHPGWTGTSTVAVRGPRRSQSYARVSLDHNPIHVCPAFARYAGLSGPIVHGMETSAMMRRIAEWAIGDADRSRFRSWHITLQAPVHPNDPLRVELQHKAMEDGEMVLKVQAFNERTEERVAEADAHVEQETTAYVFCGQGSQRQGMGMDLYVNCPEAKALWARADKHLWEKYGFSILHIVQNNPPALTVHFGSQRGRRIRANYLRMMGQPPIDGRHPPILKGLTRNSTSYTFSYSQGLLMSTQFAQPALALMEMAQFEWLKAQGVVQKGARFAGHSLGEYAALGACASFLSFEDLISLIFYRGLKMQNALPRDANGHTDYGMLAADPSRIGKGFEEASLKCLVHIIQQETGWFVEVVNYNINSQQYVCAGHFRALWMLGKICDDLSCHPQPETVEGQELRAMVWKHVPTVEQVPREDRMERGRATIPLPGIDIPYHSTMLRGEIEPYREYLSERIKVGDVKPCELVGRWIPNVVGQPFSVDKSYVQLVHGITGSPRLHSLLQQMA |
| 4489 | sp|P31750|AKT1\_MOUSE | MNDVAIVKEGWLHKRGEYIKTWRPRYFLLKNDGTFIGYKERPQDVDQRESPLNNFSVAQCQLMKTERPRPNTFIIRCLQWTTVIERTFHVETPEEREEWATAIQTVADGLKRQEEETMDFRSGSPSDNSGAEEMEVSLAKPKHRVTMNEFEYLKLLGKGTFGKVILVKEKATGRYYAMKILKKEVIVAKDEVAHTLTENRVLQNSRHPFLTALKYSFQTHDRLCFVMEYANGGELFFHLSRERVFSEDRARFYGAEIVSALDYLHSEKNVVYRDLKLENLMLDKDGHIKITDFGLCKEGIKDGATMKTFCGTPEYLAPEVLEDNDYGRAVDWWGLGVVMYEMMCGRLPFYNQDHEKLFELILMEEIRFPRTLGPEAKSLLSGLLKKDPTQRLGGGSEDAKEIMQHRFFANIVWQDVYEKKLSPPFKPQVTSETDTRYFDEEFTAQMITITPPDQDDSMECVDSERRPHFPQFSYSASGTA |
| 4490 | sp|O04379|AGO1\_ARATH | MVRKRRTDAPSEGGEGSGSREAGPVSGGGRGSQRGGFQQGGGQHQGGRGYTPQPQQGGRGGRGYGQPPQQQQQYGGPQEYQGRGRGGPPHQGGRGGYGGGRGGGPSSGPPQRQSVPELHQATSPTYQAVSSQPTLSEVSPTQVPEPTVLAQQFEQLSVEQGAPSQAIQPIPSSSKAFKFPMRPGKGQSGKRCIVKANHFFAELPDKDLHHYDVTITPEVTSRGVNRAVMKQLVDNYRDSHLGSRLPAYDGRKSLYTAGPLPFNSKEFRINLLDEEVGAGGQRREREFKVVIKLVARADLHHLGMFLEGKQSDAPQEALQVLDIVLRELPTSRYIPVGRSFYSPDIGKKQSLGDGLESWRGFYQSIRPTQMGLSLNIDMSSTAFIEANPVIQFVCDLLNRDISSRPLSDADRVKIKKALRGVKVEVTHRGNMRRKYRISGLTAVATRELTFPVDERNTQKSVVEYFHETYGFRIQHTQLPCLQVGNSNRPNYLPMEVCKIVEGQRYSKRLNERQITALLKVTCQRPIDREKDILQTVQLNDYAKDNYAQEFGIKISTSLASVEARILPPPWLKYHESGREGTCLPQVGQWNMMNKKMINGGTVNNWICINFSRQVQDNLARTFCQELAQMCYVSGMAFNPEPVLPPVSARPEQVEKVLKTRYHDATSKLSQGKEIDLLIVILPDNNGSLYGDLKRICETELGIVSQCCLTKHVFKMSKQYMANVALKINVKVGGRNTVLVDALSRRIPLVSDRPTIIFGADVTHPHPGEDSSPSIAAVVASQDWPEITKYAGLVCAQAHRQELIQDLFKEWKDPQKGVVTGGMIKELLIAFRRSTGHKPLRIIFYRDGVSEGQFYQVLLYELDAIRKACASLEAGYQPPVTFVVVQKRHHTRLFAQNHNDRHSVDRSGNILPGTVVDSKICHPTEFDFYLCSHAGIQGTSRPAHYHVLWDENNFTADGLQSLTNNLCYTYARCTRSVSIVPPAYYAHLAAFRARFYMEPETSDSGSMASGSMARGGGMAGRSTRGPNVNAAVRPLPALKENVKRVMFYC |
| 4491 | sp|Q9VLQ1|ALG5\_DROME | MWTCLCQLCFYLLSTLAVAALSIAALVLYKTKPYPNIKRHKDEETFLDPHTIKTVTFPSLEDSPSLELSVIVPAYNEEQRLPSMLDECLAFLEQKSAGTPNFTYEVIVVSDGSQDATVSVALGYSKKHGAEKVRVLELIENRGKGGAVRMGMLSARGRNLLFADADGATKFPDYDKLEVALKQLAPEWRDDGIAIGSRAHLENDAIATRSFFRTILMHGFHFLVWLFAVRSIRDTQCGFKLFTRTTARKLFTSLHVERWAFDVELLYLAENLKLPMSEVAVRWTEIDGSKLTPFWSWLQMGRDLFMIWVRYLVGAWRIASIQKKEK |
| 4492 | sp|Q28997|ADRB2\_PIG | MGQPGNRSVFLLAPNGSHAPDQDVPQERDEAWVVGMAIVMSLIVLAIVFGNVLVITAIAKFERLQTVTNYFITSLACADLVMGLAVVPFGASHILMKMWTFGSFWCEFWISIDVLCVTASIETLCVIAVDRYLAITSPFKYQCLLTKNKARVVILMVWVVSGLISFLPIKMHWYQATHREALNCYAEEACCDFFTNQPYAIASSIVSFYLPLVVMVFVYSRVFQVARRQLQKIDKSEGRFHAQNLSQAEQDGRSGPGHRRSSKFCLKEHKALKTLGIIMGTFTLCWLPFFIVNIVHGIHDNLIPKEVYILLNWVGYVNSAFNPLIYCRSPDFRMAFQELLCLHRSSLKAYGNGCSSNSNGRTDYTGEQSGCYLGEEKDSERLCEDAPGPEGCAHRQGTVPDDSTDSQGRNCSTNDSML |
| 4493 | sp|Q96P47|AGAP3\_HUMAN | MNFQAGGGQSPQQQQQLAGGPPQQFALSNSAAIRAEIQRFESVHPNIYAIYDLIERIEDLALQNQIREHVISIEDSFVNSQEWTLSRSVPELKVGIVGNLSSGKSALVHRYLTGTYVQEESPEGGRFKKEIVVDGQSYLLLIRDEGGPPELQFAAWVDAVVFVFSLEDEISFQTVYNYFLRLCSFRNASEVPMVLVGTQDAISAANPRVIDDSRARKLSTDLKRCTYYETCATYGLNVERVFQDVAQKVVALRKKQQLAIGPCKSLPNSPSHSAVSAASIPAVHINQATNGGGSAFSDYSSSVPSTPSISQRELRIETIAASSTPTPIRKQSKRRSNIFTSRKGADLDREKKAAECKVDSIGSGRAIPIKQGILLKRSGKSLNKEWKKKYVTLCDNGLLTYHPSLHDYMQNIHGKEIDLLRTTVKVPGKRLPRATPATAPGTSPRANGLSVERSNTQLGGGTGAPHSASSASLHSERPLSSSAWAGPRPEGLHQRSCSVSSADQWSEATTSLPPGMQHPASGPAEVLSSSPKLDPPPSPHSNRKKHRRKKSTGTPRPDGPSSATEEAEESFEFVVVSLTGQTWHFEASTAEERELWVQSVQAQILASLQGCRSAKDKTRLGNQNAALAVQAVRTVRGNSFCIDCDAPNPDWASLNLGALMCIECSGIHRHLGAHLSRVRSLDLDDWPPELLAVMTAMGNALANSVWEGALGGYSKPGPDACREEKERWIRAKYEQKLFLAPLPSSDVPLGQQLLRAVVEDDLRLLVMLLAHGSKEEVNETYGDGDGRTALHLSSAMANVVFTQLLIWYGVDVRSRDARGLTPLAYARRAGSQECADILIQHGCPGEGCGLAPTPNREPANGTNPSAELHRSPSLL |
| 4494 | sp|P00325|ADH1B\_HUMAN | MSTAGKVIKCKAAVLWEVKKPFSIEDVEVAPPKAYEVRIKMVAVGICRTDDHVVSGNLVTPLPVILGHEAAGIVESVGEGVTTVKPGDKVIPLFTPQCGKCRVCKNPESNYCLKNDLGNPRGTLQDGTRRFTCRGKPIHHFLGTSTFSQYTVVDENAVAKIDAASPLEKVCLIGCGFSTGYGSAVNVAKVTPGSTCAVFGLGGVGLSAVMGCKAAGAARIIAVDINKDKFAKAKELGATECINPQDYKKPIQEVLKEMTDGGVDFSFEVIGRLDTMMASLLCCHEACGTSVIVGVPPASQNLSINPMLLLTGRTWKGAVYGGFKSKEGIPKLVADFMAKKFSLDALITHVLPFEKINEGFDLLHSGKSIRTVLTF |
| 4495 | sp|P06134|ADA\_ECOLI | MKKATCLTDDQRWQSVLARDPNADGEFVFAVRTTGIFCRPSCRARHALRENVSFYANASEALAAGFRPCKRCQPEKANAQQHRLDKITHACRLLEQETPVTLEALADQVAMSPFHLHRLFKATTGMTPKAWQQAWRARRLRESLAKGESVTTSILNAGFPDSSSYYRKADETLGMTAKQFRHGGENLAVRYALADCELGRCLVAESERGICAILLGDDDATLISELQQMFPAADNAPADLMFQQHVREVIASLNQRDTPLTLPLDIRGTAFQQQVWQALRTIPCGETVSYQQLANAIGKPKAVRAVASACAANKLAIIIPCHRVVRGDGTLSGYRWGVSRKAQLLRREAENEER |
| 4496 | sp|P18825|ADA2C\_HUMAN | MASPALAAALAVAAAAGPNASGAGERGSGGVANASGASWGPPRGQYSAGAVAGLAAVVGFLIVFTVVGNVLVVIAVLTSRALRAPQNLFLVSLASADILVATLVMPFSLANELMAYWYFGQVWCGVYLALDVLFCTSSIVHLCAISLDRYWSVTQAVEYNLKRTPRRVKATIVAVWLISAVISFPPLVSLYRQPDGAAYPQCGLNDETWYILSSCIGSFFAPCLIMGLVYARIYRVAKLRTRTLSEKRAPVGPDGASPTTENGLGAAAGAGENGHCAPPPADVEPDESSAAAERRRRRGALRRGGRRRAGAEGGAGGADGQGAGPGAAESGALTASRSPGPGGRLSRASSRSVEFFLSRRRRARSSVCRRKVAQAREKRFTFVLAVVMGVFVLCWFPFFFSYSLYGICREACQVPGPLFKFFFWIGYCNSSLNPVIYTVFNQDFRRSFKHILFRRRRRGFRQ |
| 4497 | sp|O94989|ARHGF\_HUMAN | MSAQSLPAATPPTQKPPRIIRPRPPSRSRAAQSPGPPHNGSSPQELPRNSNDAPTPMCTPIFWEPPAASLKPPALLPPSASRASLDSQTSPDSPSSTPTPSPVSRRSASPEPAPRSPVPPPKPSGSPCTPLLPMAGVLAQNGSASAPGTVRRLAGRFEGGAEGRAQDADAPEPGLQARADVNGEREAPLTGSGSQENGAPDAGLACPPCCPCVCHTTRPGLELRWVPVGGYEEVPRVPRRASPLRTSRSRPHPPSIGHPAVVLTSYRSTAERKLLPLLKPPKPTRVRQDATIFGDPPQPDLDLLSEDGIQTGDSPDEAPQNTPPATVEGREEEGLEVLKEQNWELPLQDEPLYQTYRAAVLSEELWGVGEDGSPSPANAGDAPTFPRPPGPRNTLWQELPAVQASGLLDTLSPQERRMQESLFEVVTSEASYLRSLRLLTDTFVLSQALRDTLTPRDHHTLFSNVQRVQGVSERFLATLLSRVRSSPHISDLCDVVHAHAVGPFSVYVDYVRNQQYQEETYSRLMDTNVRFSAELRRLQSLPKCERLPLPSFLLLPFQRITRLRMLLQNILRQTEEGSSRQENAQKALGAVSKIIERCSAEVGRMKQTEELIRLTQRLRFHKVKALPLVSWSRRLEFQGELTELGCRRGGVLFASRPRFTPLCLLLFSDLLLITQPKSGQRLQVLDYAHRSLVQAQQVPDPSGPPTFRLSLLSNHQGRPTHRLLQASSLSDMQRWLGAFPTPGPLPCSPDTIYEDCDCSQELCSESSAPAKTEGRSLESRAAPKHLHKTPEGWLKGLPGAFPAQLVCEVTGEHERRRHLRQNQRLLEAVGSSSGTPNAPPP |
| 4498 | sp|P00884|ALDOB\_RAT | MAHRFPALTSEQKKELSEIAQRIVANGKGILAADESVGTMGNRLQRIKVENTEENRRQFRELLFSVDNSISQSIGGVILFHETLYQKDSQGKLFRNILKEKGIVVGIKLDQGGAPLAGTNKETTIQGLDGLSERCAQYKKDGVDFGKWRAVLRISDQCPSSLAIQENANALARYASICQQNGLVPIVEPEVLPDGDHDLEHCQYVSEKVLAAVYKALNDHHVYLEGTLLKPNMLTAGHACTKKYTPEQVAMATVTALHRTVPAAVPSICFLSGGMSEEDATLNLNAIYRCPLPRPWKLSFSYGRALQASALAAWGGKAANKKATQEAFMKRAVANCQAAQGQYVHTGSSGAASTQSLFTASYTY |
| 4499 | sp|Q9ULZ1|APEL\_HUMAN | MNLRLCVQALLLLWLSLTAVCGGSLMPLPDGNGLEDGNVRHLVQPRGSRNGPGPWQGGRRKFRRQRPRLSHKGPMPF |
| 4500 | sp|Q8J025|APCD1\_HUMAN | MSWPRRLLLRYLFPALLLHGLGEGSALLHPDSRSHPRSLEKSAWRAFKESQCHHMLKHLHNGARITVQMPPTIEGHWVSTGCEVRSGPEFITRSYRFYHNNTFKAYQFYYGSNRCTNPTYTLIIRGKIRLRQASWIIRGGTEADYQLHNVQVICHTEAVAEKLGQQVNRTCPGFLADGGPWVQDVAYDLWREENGCECTKAVNFAMHELQLIRVEKQYLHHNLDHLVEELFLGDIHTDATQRMFYRPSSYQPPLQNAKNHDHACIACRIIYRSDEHHPPILPPKADLTIGLHGEWVSQRCEVRPEVLFLTRHFIFHDNNNTWEGHYYHYSDPVCKHPTFSIYARGRYSRGVLSSRVMGGTEFVFKVNHMKVTPMDAATASLLNVFNGNECGAEGSWQVGIQQDVTHTNGCVALGIKLPHTEYEIFKMEQDARGRYLLFNGQRPSDGSSPDRPEKRATSYQMPLVQCASSSPRAEDLAEDSGSSLYGRAPGRHTWSLLLAALACLVPLLHWNIRR |
| 4501 | sp|Q5FWH6|ARHGF\_MOUSE | MSAQSLPAATPPTLKPPRIIRPRPPSRHRAPHSPGPLHNGSSPKALPQISNDASASVCTSIFWEPPTASLKPPALLPPSVSRTSLDSQTSPDSPSSTPSPSPVSRRSISPEPAPCSPVPPPKPSGSSRTPLPSGPTPLQDGSASAPGTVRRLAGKFEWGAEGKAQSSDSLERCSQGSTEVNGEKETPEAALSGNGSQENGTPDAALACPPCCPCVCHVAKPGLELRWVPVGSSEDILRIPCRASPLRASRSRINPPVISHPPVVLTSYRSTAERKLLPPLKPPKPTKVRQDISTSEELPQPDLKLPSEDGIQTATKAWEGDRPEGAPLNAPPVALEGREEEGLDGLKGLQWELPLQDEPLYQTYRAAVLSEELWGVGEDGGPSPANPGEAPTFSRLPGPRNTLWQELPAVRGSGLLESLSPQERRMQESLFEVVTSEASYLRSLRLLTDTFVLSQALRDTLTPRDHHTLFSNVQRVQSVSERFLGTLLSRVRSSPHITDLCDVVHAHAVGPFFVYVDYVRNQQYQEETYSRLMDTNVRFSAELRRLQSLPKCERLPLPSFLLLPFQRITRLRMLLQNILSQTEEGSSRQENAQKALGAVSKIIERCSAEVGRMKQTEELIRLTQRLRFHKVKALPLVSWSRRLELQGELTELGCRRGGVLFTSRPRFTPLCLLLFSDLLLITQPKSGQRLQVLDYAHRSLVQAQQVPDPSGPPTFRLSLLSNHQGRPTHRLLQAASLSDMQRWLGAFPTPGPLPCSPDTIYEDCECSQELCSEPSTPSKTEGQSLESKAPRKHLHKNPEGWLKGLPGAFPAQLVCEVTGEHERRKHLRQHQKLLEAVGPSSGTPDTPQP |
| 4502 | sp|P0A6C8|ARGB\_ECOLI | MMNPLIIKLGGVLLDSEEALERLFSALVNYRESHQRPLVIVHGGGCVVDELMKGLNLPVKKKNGLRVTPADQIDIITGALAGTANKTLLAWAKKHQIAAVGLFLGDGDSVKVTQLDEELGHVGLAQPGSPKLINSLLENGYLPVVSSIGVTDEGQLMNVNADQAATALAATLGADLILLSDVSGILDGKGQRIAEMTAAKAEQLIEQGIITDGMIVKVNAALDAARTLGRPVDIASWRHAEQLPALFNGMPMGTRILA |
| 4503 | sp|P50635|APY\_AEDAE | MAGRPGYSEVIFLYVVSVAVIARATDNMPVNKDVSKLFPLTLIHINDLHARFEETNMKSNVCTQKDQCIAGIARVYQKIKDLLKEYESKNPIYLNAGDNFQGTLWYNLLRWNVTADFIKKLKPAAMTLGNHEFDHTPKGLAPYLAELNKEGIPTIVANLVMNNDPDLKSSKIPKSIKLTVGKRKIGIIGVLYDKTHEIAQTGKVTLSNAVEAVRREAAALKKDNIDIIVVLSHCSYEEDKKIAAEAGDDIDVIVGAHSHSFLYSPDSKQPHDPKDKVEGPYPTLVESKNKRKIPIVQAKSFGKYVGRLTLYFDEEGEVKNWEGYPVFIDHKVQQDPQILKDLVPWRAKVEAIGSTVVGETMIELDRDSCRDQECTLGVLYADGFADQYTNDTFRPFAIIQAGNFRNPIKVGKITNGDIIEAAPFGSTADLIRLKGADIWDVAEHSFALDDEGRTNCLQVSGLRIVIDISKPVRSRVKKIEVMDYTNPKSDKLKPLDKEAEYYIVVPSYLADGKDGFSAMKRATARRTGPLDSDVFKNYVEKIKKVDNLKLGRVIVCKGSKCT |
| 4504 | sp|Q8JHI3|AR13B\_DANRE | MFNLMANCCNWLKRWREPARKVTLVMVGLDNAGKTATVRGIQGESPLDVAPTVGFSKVDLKQGKFEVTIFDLGGGKRIRGIWKNYYSESYGVVFVVDSSDVQRIQETRDTMAEVLRHPRIAGKPVLVLANKQDQDGAMAEADIIETLSLEKLVNENKCLCQIEPCSAVLGYGKKVDKSIKNGLNWLLNNIAKDYEAISERVQKDTAEQKAQEEQDKKERAERVRRIREERDRQEREEAEREGRTLKEEELDDVNMFNPFQPINNVLTENQDRLNREKEMQRQRENGQQGSVQEQIALQDEEEEEEDEESERQTPESTESGAVDQTKKKTRKLRLKRKHRVDPLRMEEAAPKSPTPPPLPVGWATPKVSRLPKLEPLGDTRHSDFYGKPLPPVAIRQRPNSDTHDVIS |
| 4505 | sp|P26817|ARBK1\_RAT | MADLEAVLADVSYLMAMEKSKATPAARASKKILLPEPSIRSVMQKYLEDRGEVTFEKIFSQKLGYLLFRDFYLNHLEEAKPLVEFYEEIEKYEKLETEEERVVRSREIFDSYIMKELLACSHPFSKNATEHVQGHLVKKQVPPDLFQPYIEEICQNLRGDVFHKFIESDKFTRFCQWKNVELNIHLTMNDFSVHRIIGRGGFGEVYGCRKADTGKMYAMKCLDKKRIKMKQGETLALNERIMLSLVSTGDCPFIVCMSYAFHTPDKLSFILDLMNGGDLHYHLSQHGVFSEADMRFYAAEIILGLEHMHNRFVVYRDLKPANILLDEHGHVRISDLGLACDFSKKKPHASVGTHGYMAPEVLQKGVAYDSSADWFSLGCMLFKLLRGHSPFRQHKTKDKHEIDRMTLTMAVELPDSFSPELRSLLEGLLQRDVNRRLGCLGRGAQEIKESPFFRSLDWQMVFLQKYPPPLIPPRGEVNAADAFDIGSFDEEDTKGIKLLDSDQELYRNFPLTISERWQQEVAETVFDTINAETDRLEARKKAKNKQLGHEEDYALGKDCIMHGYMSKMGNPFLTQWQRRYFYLFPNRLEWRGEDEAPQSLLTMEEIQSVEETQIKERKCLLLKIRGGKQFVLQCDSDPELVQWKKELRDAYREAQQLVQRVPKMKNKPRSPVVELSKVPLIQRGSANGL |
| 4506 | sp|Q5FVC2|ARHG2\_RAT | MSRIESLTRARIDRSKEQATKTREKEKMKEAKDARYTNGHLFTTISVSGMTMCYACNKSITAKEALICPTCNVTIHNRCKDTLANCTKVKQKQQKAALLRNNTALQSVSLRSKTTTRERPTSAIYPSDSFRQSLLGSRRGLSSLSLAKSVSTTNIAGHFNDESPLGLRQILSQSTDSLNMRNRTLSVESLIDEGVEVFYNELMSDFEMDEKDFEADSWSLAVDSSFLQQHKKEVMKKQDVIYELIQTELHHVRTLKIMTRLFRTGMLEELQMEPEVVQGLFPCVDELSDIHTRFLSQLLERRRQALCPGSTRNFVIHRLGDLLISQFSGSNAEQMRKTYSEFCSRHTKALKLYKELYARDKRFQQFIRKMTRSAVLKRHGVQECILLVTQRITKYPVLINRILQNSHGIEEEYQDLAAALGLVKELLSNVDQDVHELEKEARLQEIYNRMDPRAQTPVPGKGPFGRDELLRRKLIHDGCLLWKTATGRFKDVLLLLMTDVLVFLQEKDQKYIFTSLDKPSVVSLQNLIVRDIANQAKGMFLISSGPPEMYEVHAASRDDRTTWIRVIQQSVRLCPSREDFPLIETEDKAYLRRIKTKLQQKNQALVELLQMNVELFAEMVHFQALKAGFIGMPPPTLPRGLFRLESFESLRGERLLKDALREVEGLKDLLLGPCVDLPLTAREPALPVEADSGSCPGVTANGEARTFNGSIELCRADSDSSQKDRNGNQLRSPQEEALQPLVNLYGLLQGLQAVVVQQERLMEALFPEGPERWEKLSRANSRDGEAGRAAVASVTPEKQATELALLQRQHSLLQEELRRCQRLGEERATEAGSLEARLRESEQARALLEREAEEIRRQLAALGQNEPLPAEAPWARRPLDPRRRSLPAGDALYLSFNPPQPSRGHDRLDLPVTVRSLHRPFDDREAQELGSPEDRLQDSSDPDTCSEEEVSSRLSPPHSPRDFTRMQDIPEETESRDGEPTASES |
| 4507 | sp|Q96BT7|ALKB8\_HUMAN | MDSNHQSNYKLSKTEKKFLRKQIKAKHTLLRHEGIETVSYATQSLVVANGGLGNGVSRNQLLPVLEKCGLVDALLMPPNKPYSFARYRTTEESKRAYVTLNGKEVVDDLGQKITLYLNFVEKVQWKELRPQALPPGLMVVEEIISSEEEKMLLESVDWTEDTDNQNSQKSLKHRRVKHFGYEFHYENNNVDKDKPLSGGLPDICESFLEKWLRKGYIKHKPDQMTINQYEPGQGIPAHIDTHSAFEDEIVSLSLGSEIVMDFKHPDGIAVPVMLPRRSLLVMTGESRYLWTHGITCRKFDTVQASESLKSGIITSDVGDLTLSKRGLRTSFTFRKVRQTPCNCSYPLVCDSQRKETPPSFPESDKEASRLEQEYVHQVYEEIAGHFSSTRHTPWPHIVEFLKALPSGSIVADIGCGNGKYLGINKELYMIGCDRSQNLVDICRERQFQAFVCDALAVPVRSGSCDACISIAVIHHFATAERRVAALQEIVRLLRPGGKALIYVWAMEQEYNKQKSKYLRGNRNSQGKKEEMNSDTSVQRSLVEQMRDMGSRDSASSVPRINDSQEGGCNSRQVSNSKLPVHVNRTSFYSQDVLVPWHLKGNPDKGKPVEPFGPIGSQDPSPVFHRYYHVFREGELEGACRTVSDVRILQSYYDQGNWCVILQKA |
| 4508 | sp|P70478|APC\_RAT | MAAASYDQLLKQVEALKMENSNLRQELEDNSNHLTELETEASNMKEVLKQLQGSIEDETMTSGQIDLLERLKEFNLDSNFPGVKLRSKMSLRSYGSREGSVSSRSGECSPVPMGSFPRRAFVNGSRESTGYLEELEKERSLLLADLDKEEKEKDWYYAQLQNLTKRIDSLPLTENFSLQTDMTRRQLEYEARQIRAAMEEQLGTCQDMEKRAQRRIARIQQIEKDILRVRQLLQSQAAEAERSSQSKHETASHEAERQLEGQGVAESNLATSGSGQSSAARVDHETAGVLSSSGTHSAPRRLTSHLGTKVEMVYSLLSMLGTHDKDDMSRTLLAMSSSQDSCISMRQSGCLPLLIQLLHGNDKDSVLLGNSRGSKEARARASAALHNIIHSQPDDKRGRREIRVLHLLEQIRAYCETCWEWQEAHEQGMDQDKNPMPAPVEHQICPAVCVLMKLSFDEEHRHAMNELGGLQAIAELLQVDCEMHGLTDDHYSVTLRRYAGMALTNLTFGDVANKATLCSMKGCMRALVAQLKSESEDLQQVIASVLRNLSWRADVNSKKTLREVGSVKALMECALEVKKESTLKSVLSALWNLSAHCTENKADICAVDGALAFLVGTLTYRSQTNTLAIIESGGGILRNVSSLIATNEDHRQILRENNCLQTLLQHLKSHSLTIVSNACGTLWNLSARNPKDQEALWDMGAVSMLKNLIHSKHKMIAMGSAAALRNLMANRPAKYKDANIMSPGSSLPSLHVRKQKALEAELDAQHLSETFDNIDNLSPKASHRSKQRHKQNLYGDYVFDASRHDDNRSDNFNTGNMTVLSPYLNTTVLPSSSSSRGSLDSSRSEKDRSLERERGIGLSTYHSATENPGTSSKRGLQLSATAAQIAKVMEEVSALHTSQDDRSPASAAELHCVAEERTAARRSSASHTHPNTHNFAKSESSNRTCSMPYAKVEYKRSSNDSLNSVTSSDGYGKRGQMKPSVESYSEDDEGKFCSYGQYPADLAHKIHSANHMDDNGGELDTPINYSLKYSDEQLNSGRQSPSQNERWARPKHVIEDEIKQNEQRQSRSQNTNFPVYSENTDDKHLKFQQHFGQQECVSPYRSRGTNGSETNRMGSSHAVNQNVNQSLCQEDDYEDDKPTNYSERYSEEEQHEEEERPTNYSIKYNEEKHHVDQPIDYSLKYATDISSSQKPSFSFSKTPSVQGTKTEHNSPSSEAASAPSSNAKRQSQLHPSSAQRNGQTPKGTACKVPSINQETMQTYCVEDTPICFSRCSSLSSLSSAEDEIGCDQTTQEADSANTLQIAEIKENDVTRSAQDPASDVPAVSQSTRTKPSRLQASGLASESARHKAVEFSSGAKSPSKSGAQTPKSPPEHYVQETPLVFSRCTSVSSLDSFESRSIASSVQSEPCSGMVSGIVSPSDLPDSPGQTMPPSRSKTPPPPPPPQPVQTKREVPKTKVPAAEQREGGPKQTAVSAAVQRVQVLPDADTLLHFATESTPDGFSCSSSLSALSLDEPFIQKDVELRIMPPVQENDNGNETEPEQPEESNENQDKEVEKPDSEKDLLDDSDDDDIEILEECIISAMPTKSSRKAKKLAQTASKLPPPVARKPSQLPVYKLLPSQSRLQAQKHVSFTPGDDVPRVYCVEGTPINFSTATSLSDLTIESPPNELAAGDGVRASVQSGEFEKRDTIPTEGRSTDEAQRGKVSSIAIPDLDGSKAEEGDILAECINSALPKGRSHKPFRVKKIMDQVQQASMTSSGTNKNQIDTKKKKPTSPVKPMPQNTEYRTRVRKNTDSKVNVNTEETFSDNKDSKKQSLKNNPKDLNDKLPDNEDRVRGGFTFDSPHHYAPIEGTPYCFSRNDSLSSLDFDDDDVDLSREKAELRKGKESKDSEAKVTCHTEPSSSQQSARKAQASTKHPVNRGPSKPLLQEQPTFPQSSKDVPDRGAATDEKLQNFAIENTPVCFSRNSSLSSLSDVDQENNNNEETGPVRDAEPANAQGQPGKPQASGYAPKSFHVEDTPVCFSRNSSLSSLSIDSEDDLLRECISSAMPKKRRPSRLKGEGEWQSPRKVGSVLAEDLTLDLKDIQRPESEHGLSPDSENFDWKAIQEGANSIVSSLHQAAAAAACLSRQASSDSDSILSLKSGVSLGSPFHLTPDQEEKPFTSHKGPRILKPGEKSTLEAKKIESENKGIKGGKKVYKSLITGKIRSNSEISSQMKQPLQTNMPSISRGRTMIHIPGVRNSSSSTSPVSKKGPPLKTPASKSPSEGPVATTSPRGTKPAVKSELSPITRQTSHISGSNKGPSRSGSRDSTPSRPTQQPLSRPMQSPGRNSISPGRNGISTPNKLSQLPRTSSPSTASTKSSGSGKMSYTSPGRQLSQQNLSKQTGLSKNASSIPRSESASKGLNQMNNSNGSNKKVELSRMSSTKSSGSESDRSERPALVRQSTFIKEAPSPTLRRKLEESASFESLSPSSRPDSPTRSQAQTPVLSPSLPDMSLSTHPSVQAGGWRKLPPNLSPTIEYSDGRPSKRHDIARSHSESPSRLPVNRAGTWKREHSKHSSSLPRVSTWRRTGSSSSILSASSESSEKAKSEDEKHVNSVPGPRQMKENQVPTKGTWRKIKESEISPTNTVSQTTSSGAASGAESKTLIYQMAPAVSRTEDVWVRIEDCPINNPRSGRSPTGNTPPVIDSISEKGNPSIKDSKDTQGKQSVGSGSPVQTVGLENRLNSFIQVEAPEQKGTETKAGQGSPAPVAETGETCMAERTPFSSSSSSKHSSPSGTVAARVTPFNYNPSPRKSSADSTSARPSQIPTPVGSSTKKRDSKTDSTESSGAQSPKRHSGSYLVTSV |
| 4509 | sp|Q6Q788|APOA5\_HUMAN | MASMAAVLTWALALLSAFSATQARKGFWDYFSQTSGDKGRVEQIHQQKMAREPATLKDSLEQDLNNMNKFLEKLRPLSGSEAPRLPQDPVGMRRQLQEELEEVKARLQPYMAEAHELVGWNLEGLRQQLKPYTMDLMEQVALRVQELQEQLRVVGEDTKAQLLGGVDEAWALLQGLQSRVVHHTGRFKELFHPYAESLVSGIGRHVQELHRSVAPHAPASPARLSRCVQVLSRKLTLKAKALHARIQQNLDQLREELSRAFAGTGTEEGAGPDPQMLSEEVRQRLQAFRQDTYLQIAAFTRAIDQETEEVQQQLAPPPPGHSAFAPEFQQTDSGKVLSKLQARLDDLWEDITHSLHDQGHSHLGDP |
| 4510 | sp|Q96CW1|AP2M1\_HUMAN | MIGGLFIYNHKGEVLISRVYRDDIGRNAVDAFRVNVIHARQQVRSPVTNIARTSFFHVKRSNIWLAAVTKQNVNAAMVFEFLYKMCDVMAAYFGKISEENIKNNFVLIYELLDEILDFGYPQNSETGALKTFITQQGIKSQHQTKEEQSQITSQVTGQIGWRREGIKYRRNELFLDVLESVNLLMSPQGQVLSAHVSGRVVMKSYLSGMPECKFGMNDKIVIEKQGKGTADETSKSGKQSIAIDDCTFHQCVRLSKFDSERSISFIPPDGEFELMRYRTTKDIILPFRVIPLVREVGRTKLEVKVVIKSNFKPSLLAQKIEVRIPTPLNTSGVQVICMKGKAKYKASENAIVWKIKRMAGMKESQISAEIELLPTNDKKKWARPPISMNFEVPFAPSGLKVRYLKVFEPKLNYSDHDVIKWVRYIGRSGIYETRC |
| 4511 | sp|P14824|ANXA6\_MOUSE | MAKIAQGAMYRGSVHDFPEFDANQDAEALYTAMKGFGSDKESILELITSRSNKQRQEICQNYKSLYGKDLIEDLKYELTGKFERLIVNLMRPLAYCDAKEIKDAISGVGTDEKCLIEILASRTNEQMHQLVAAYKDAYERDLESDIIGDTSGHFQKMLVVLLQGTRENDDVVSEDLVQQDVQDLYEAGELKWGTDEAQFIYILGNRSKQHLRLVFDEYLKTTGKPIEASIRGELSGDFEKLMLAVVKCIRSTPEYFAERLFKAMKGLGTRDNTLIRIMVSRSELDMLDIREIFRTKYEKSLYSMIKNDTSGEYKKALLKLCGGDDDAAGQFFPEAAQVAYQMWELSAVSRVELKGTVCAANDFNPDADAKALRKAMKGIGTDEATIIDIVTHRSNAQRQQIRQTFKSHFGRDLMADLKSEISGDLARLILGLMMPPAHYDAKQLKKAMEGAGTDEKTLIEILATRTNAEIRAINEAYKEDYHKSLEDALSSDTSGHFRRILISLATGNREEGGENRDQAQEDAQVAAEILEIADTPSGDKTSLETRFMTVLCTRSYPHLRRVFQEFIKKTNYDIEHVIKKEMSGDVKDAFVAIVQSVKNKPLFFADKLYKSMKGAGTDEKTLTRVMVSRSEIDLLNIRREFIEKYDKSLHQAIEGDTSGDFMKALLALCGGED |
| 4512 | sp|P41181|AQP2\_HUMAN | MWELRSIAFSRAVFAEFLATLLFVFFGLGSALNWPQALPSVLQIAMAFGLGIGTLVQALGHISGAHINPAVTVACLVGCHVSVLRAAFYVAAQLLGAVAGAALLHEITPADIRGDLAVNALSNSTTAGQAVTVELFLTLQLVLCIFASTDERRGENPGTPALSIGFSVALGHLLGIHYTGCSMNPARSLAPAVVTGKFDDHWVFWIGPLVGAILGSLLYNYVLFPPAKSLSERLAVLKGLEPDTDWEEREVRRRQSVELHSPQSLPRGTKA |
| 4513 | sp|Q13367|AP3B2\_HUMAN | MSAAPAYSEDKGGSAGPGEPEYGHDPASGGIFSSDYKRHDDLKEMLDTNKDSLKLEAMKRIVAMIARGKNASDLFPAVVKNVACKNIEVKKLVYVYLVRYAEEQQDLALLSISTFQRGLKDPNQLIRASALRVLSSIRVPIIVPIMMLAIKEAASDMSPYVRKTAAHAIPKLYSLDSDQKDQLIEVIEKLLADKTTLVAGSVVMAFEEVCPERIDLIHKNYRKLCNLLIDVEEWGQVVIISMLTRYARTQFLSPTQNESLLEENAEKAFYGSEEDEAKGAGSEETAAAAAPSRKPYVMDPDHRLLLRNTKPLLQSRSAAVVMAVAQLYFHLAPKAEVGVIAKALVRLLRSHSEVQYVVLQNVATMSIKRRGMFEPYLKSFYIRSTDPTQIKILKLEVLTNLANETNIPTVLREFQTYIRSMDKDFVAATIQAIGRCATNIGRVRDTCLNGLVQLLSNRDELVVAESVVVIKKLLQMQPAQHGEIIKHLAKLTDNIQVPMARASILWLIGEYCEHVPRIAPDVLRKMAKSFTAEEDIVKLQVINLAAKLYLTNSKQTKLLTQYVLSLAKYDQNYDIRDRARFTRQLIVPSEQGGALSRHAKKLFLAPKPAPVLESSFKDRDHFQLGSLSHLLNAKATGYQELPDWPEEAPDPSVRNVEVPEWTKCSNREKRKEKEKPFYSDSEGESGPTESADSDPESESESDSKSSSESGSGESSSESDNEDQDEDEEKGRGSESEQSEEDGKRKTKKKVPERKGEASSSDEGSDSSSSSSESEMTSESEEEQLEPASWSRKTPPSSKSAPATKEISLLDLEDFTPPSVQPVSPPAIVSTSLAADLEGLTLTDSTLVPSLLSPVSGVGRQELLHRVAGEGLAVDYTFSRQPFSGDPHMVSVHIHFSNSSDTPIKGLHVGTPKLPAGISIQEFPEIESLAPGESATAVMGINFCDSTQAANFQLCTQTRQFYVSIQPPVGELMAPVFMSENEFKKEQGKLMGMNEITEKLMLPDTCRSDHIVVQKVTATANLGRVPCGTSDEYRFAGRTLTGGSLVLLTLDARPAGAAQLTVNSEKMVIGTMLVKDVIQALTQ |
| 4514 | sp|P34080|AQP2\_RAT | MWELRSIAFSRAVLAEFLATLLFVFFGLGSALQWASSPPSVLQIAVAFGLGIGILVQALGHVSGAHINPAVTVACLVGCHVSFLRAAFYVAAQLLGAVAGAAILHEITPVEIRGDLAVNALHNNATAGQAVTVELFLTMQLVLCIFASTDERRGDNLGSPALSIGFSVTLGHLLGIYFTGCSMNPARSLAPAVVTGKFDDHWVFWIGPLVGAIIGSLLYNYLLFPSAKSLQERLAVLKGLEPDTDWEEREVRRRQSVELHSPQSLPRGSKA |
| 4515 | sp|Q86CR8|ATG8\_DICDI | MVHVSSFKNDHPLDKRREVAERIRSKYLDRIPVIVEKAPRSDAPDIDKKKYLVPADITVGKFVYEIRKHMTKVSAEKAIYLFVNNTIPPTAALISQIYERYKDEDGFLYITYSGENTFGSDL |
| 4516 | sp|P54708|AT12A\_RAT | MRRKTEIYSVELNGTKDVKPADQRDDKKFKGAKNKDLEPNKSHEKEELKKELDLDDHRLSNTELEQKYGTNIIQGLSSVRATELLARDGPNTLTPPKQTPEIIKFLKQMVGGFSILLWIGAALCWIAFVIQYVNNSASLDNVYLGAILVLVVILTGIFAYYQEAKSTNIMASFSKMIPQQALVIRDAEKKVISAEQLVVGDVVEIKGGDQIPADIRLVFSQGCKVDNSSLTGESEPQARSTEFTHENPLETKNIGFYSTTCLEGTATGIVINTGDRTIIGRIASLASGVGSEKTPIAIEIEHFVHIVAGVAVSIDIIFFITAVCMKYYVLDAIIFLISIIVANVPEGLLATVTVTLSLTAKRMAKKNCLVKNLEAVETLGSTSIICSDKTGTLTQNRMTVAHLWFDNQIFVADTSENQTKQAFDQSSGTWASLSKIITLCNRAEFRPGQESVPIMKRTVVGDASETALLKFSEVILGDVMGIRKRNHKVAEIPFNSTNKFQLSIHETEDPNNKRFLVVMKGAPERILEKCSTIMINGQEQPLDKSSADSFHTAYMELGGLGERVLGFCHLYLPAEQFPQSYIFDVDSVNFPTSNFCFVGLLSMIDPPRSTVPDAVSKCRSAGIKVIMVTGDHPITAKAIAKSVGIISANNETVEDIAKRRNIAVEQVNKREAKAAVVTGMELKDMTPEQLDELLTNYQEIVFARTSPQQKLIIVEGCQRQDAIVAVTGDGVNDSPALKKADIGIAMGIAGSDAAKNAADMVLLDDNFASIVTGVEEGRLIFDNLKKTIAYTLTKNIAELCPFLIYIVAGLPLPIGTITILFIDLGTDIIPSIALAYEKAESDIMNRKPRHKKKDRLVNTQLAIYSYLHIGLMQALGGFLVYFTVYAQQGFWPTSLINLRVAWETDDINDLEDSYGQEWTRYQRKYLEWTGSTAFFVAIMIQQIADLIIRKTRRNSIFQQGLFRNKVIWVGIASQVIVALILSYGLGSVPALSFTMLRVQYWFVAVPHAILIWVYDEMRKLFIRLYPGSWWDKNMYY |
| 4517 | sp|P58335|ANTR2\_HUMAN | MVAERSPARSPGSWLFPGLWLLVLSGPGGLLRAQEQPSCRRAFDLYFVLDKSGSVANNWIEIYNFVQQLAERFVSPEMRLSFIVFSSQATIILPLTGDRGKISKGLEDLKRVSPVGETYIHEGLKLANEQIQKAGGLKTSSIIIALTDGKLDGLVPSYAEKEAKISRSLGASVYCVGVLDFEQAQLERIADSKEQVFPVKGGFQALKGIINSILAQSCTEILELQPSSVCVGEEFQIVLSGRGFMLGSRNGSVLCTYTVNETYTTSVKPVSVQLNSMLCPAPILNKAGETLDVSVSFNGGKSVISGSLIVTATECSNGIAAIIVILVLLLLLGIGLMWWFWPLCCKVVIKDPPPPPAPAPKEEEEEPLPTKKWPTVDASYYGGRGVGGIKRMEVRWGDKGSTEEGARLEKAKNAVVKIPEETEEPIRPRPPRPKPTHQPPQTKWYTPIKGRLDALWALLRRQYDRVSLMRPQEGDEVCIWECIEKELTA |
| 4518 | sp|Q13790|APOF\_HUMAN | MTGLCGYSAPDMRGLRLIMIPVELLLCYLLLHPVDATSYGKQTNVLMHFPLSLESQTPSSDPLSCQFLHPKSLPGFSHMAPLPKFLVSLALRNALEEAGCQADVWALQLQLYRQGGVNATQVLIQHLRGLQKGRSTERNVSVEALASALQLLAREQQSTGRVGRSLPTEDCENEKEQAVHNVVQLLPGVGTFYNLGTALYYATQNCLGKARERGRDGAIDLGYDLLMTMAGMSGGPMGLAISAALKPALRSGVQQLIQYYQDQKDANISQPETTKEGLRAISDVSDLEETTTLASFISEVVSSAPYWGWAIIKSYDLDPGAGSLEI |
| 4519 | sp|Q68FE2|ATG9A\_MOUSE | MAQFDTEYQRLEASYSDSPPGEEDLLVHVAEGSKSPWHHIENLDLFFSRVYNLHQKNGFTCMLIGEMFELMQFLFVVAFTTFLVSCVDYDILFANKMVNHSLHPTEPVKVTLPDAFLPAQVCSARIQENGSLITILVIAGVFWIHRLIKFIYNICCYWEIHSFYLHALRIPMSALPYCTWQEVQARIVQTQKEHQICIHKRELTELDIYHRILRFQNYMVALVNKSLLPLRFRLPGLGEVVFFTRGLKYNFELILFWGPGSLFLNEWSLKAEYKRGGQRLELAQRLSNRILWIGIANFLLCPLILIWQILYAFFSYAEVLKREPGALGARCWSLYGRCYLRHFNELEHELQSRLNRGYKPASKYMNCFLSPLLTLLAKNGAFFAGSILAVLIALTIYDEDVLAVEHVLTTVTLLGVTVTVCRSFIPDQHMVFCPEQLLRVILAHIHYMPDHWQGVHLGGVAESHRHTPHSHLLPPPSGPGDHRLLPQLYGRGRGCGRHLLLCSDGRSPAWPSSVAVWRADRGLSVPASRGREDRVVAHALCHHQSRLAAPS |
| 4520 | sp|P07150|ANXA1\_RAT | MAMVSEFLKQACYIEKQEQEYVQAVKSYKGGPGSAVSPYPSFNPSSDVAALHKAIMVKGVDEATIIDILTKRTNAQRQQIKAAYLQETGKPLDETLKKALTGHLEEVVLAMLKTPAQFDADELRAAMKGLGTDEDTLIEILTTRSNQQIREITRVYREELKRDLAKDITSDTSGDFRNALLALAKGDRCEDMSVNQDLADTDARALYEAGERRKGTDVNVFNTILTTRSYPHLRKVFQNYRKYSQHDMNKALDLELKGDIEKCLTTIVKCATSTPAFFAEKLYEAMKGAGTRHKTLIRIMVSRSEIDMNEIKVFYQKKYGIPLCQAILDETKGDYEKILVALCGGN |
| 4521 | sp|Q9NR71|ASAH2\_HUMAN | MAKRTFSNLETFLIFLLVMMSAITVALLSLLFITSGTIENHKDLGGHFFSTTQSPPATQGSTAAQRSTATQHSTATQSSTATQTSPVPLTPESPLFQNFSGYHIGVGRADCTGQVADINLMGYGKSGQNAQGILTRLYSRAFIMAEPDGSNRTVFVSIDIGMVSQRLRLEVLNRLQSKYGSLYRRDNVILSGTHTHSGPAGYFQYTVFVIASEGFSNQTFQHMVTGILKSIDIAHTNMKPGKIFINKGNVDGVQINRSPYSYLQNPQSERARYSSNTDKEMIVLKMVDLNGDDLGLISWFAIHPVSMNNSNHLVNSDNVGYASYLLEQEKNKGYLPGQGPFVAAFASSNLGDVSPNILGPRCINTGESCDNANSTCPIGGPSMCIAKGPGQDMFDSTQIIGRAMYQRAKELYASASQEVTGPLASAHQWVDMTDVTVWLNSTHASKTCKPALGYSFAAGTIDGVGGLNFTQGKTEGDPFWDTIRDQILGKPSEEIKECHKPKPILLHTGELSKPHPWHPDIVDVQIITLGSLAITAIPGEFTTMSGRRLREAVQAEFASHGMQNMTVVISGLCNVYTHYITTYEEYQAQRYEAASTIYGPHTLSAYIQLFRNLAKAIATDTVANLSRGPEPPFFKQLIVPLIPSIVDRAPKGRTFGDVLQPAKPEYRVGEVAEVIFVGANPKNSVQNQTHQTFLTVEKYEATSTSWQIVCNDASWETRFYWHKGLLGLSNATVEWHIPDTAQPGIYRIRYFGHNRKQDILKPAVILSFEGTSPAFEVVTI |
| 4522 | sp|Q9P241|AT10D\_HUMAN | MTEALQWARYHWRRLIRGATRDDDSGPYNYSSLLACGRKSSQTPKLSGRHRIVVPHIQPFKDEYEKFSGAYVNNRIRTTKYTLLNFVPRNLFEQFHRAANLYFLFLVVLNWVPLVEAFQKEITMLPLVVVLTIIAIKDGLEDYRKYKIDKQINNLITKVYSRKEKKYIDRCWKDVTVGDFIRLSCNEVIPADMVLLFSTDPDGICHIETSGLDGESNLKQRQVVRGYAEQDSEVDPEKFSSRIECESPNNDLSRFRGFLEHSNKERVGLSKENLLLRGCTIRNTEAVVGIVVYAGHETKAMLNNSGPRYKRSKLERRANTDVLWCVMLLVIMCLTGAVGHGIWLSRYEKMHFFNVPEPDGHIISPLLAGFYMFWTMIILLQVLIPISLYVSIEIVKLGQIYFIQSDVDFYNEKMDSIVQCRALNIAEDLGQIQYLFSDKTGTLTENKMVFRRCSVAGFDYCHEENARRLESYQEAVSEDEDFIDTVSGSLSNMAKPRAPSCRTVHNGPLGNKPSNHLAGSSFTLGSGEGASEVPHSRQAAFSSPIETDVVPDTRLLDKFSQITPRLFMPLDETIQNPPMETLYIIDFFIALAICNTVVVSAPNQPRQKIRHPSLGGLPIKSLEEIKSLFQRWSVRRSSSPSLNSGKEPSSGVPNAFVSRLPLFSRMKPASPVEEEVSQVCESPQCSSSSACCTETEKQHGDAGLLNGKAESLPGQPLACNLCYEAESPDEAALVYAARAYQCTLRSRTPEQVMVDFAALGPLTFQLLHILPFDSVRKRMSVVVRHPLSNQVVVYTKGADSVIMELLSVASPDGASLEKQQMIVREKTQKHLDDYAKQGLRTLCIAKKVMSDTEYAEWLRNHFLAETSIDNREELLLESAMRLENKLTLLGATGIEDRLQEGVPESIEALHKAGIKIWMLTGDKQETAVNIAYACKLLEPDDKLFILNTQSKDACGMLMSTILKELQKKTQALPEQVSLSEDLLQPPVPRDSGLRAGLIITGKTLEFALQESLQKQFLELTSWCQAVVCCRATPLQKSEVVKLVRSHLQVMTLAIGDGANDVSMIQVADIGIGVSGQEGMQAVMASDFAVSQFKHLSKLLLVHGHWCYTRLSNMILYFFYKNVAYVNLLFWYQFFCGFSGTSMTDYWVLIFFNLLFTSAPPVIYGVLEKDVSAETLMQLPELYRSGQKSEAYLPHTFWITLLDAFYQSLVCFFVPYFTYQGSDTDIFAFGNPLNTAALFIVLLHLVIESKSLTWIHLLVIIGSILSYFLFAIVFGAMCVTCNPPSNPYWIMQEHMLDPVFYLVCILTTSIALLPRFVYRVLQGSLFPSPILRAKHFDRLTPEERTKALKKWRGAGKMNQVTSKYANQSAGKSGRRPMPGPSAVFAMKSASSCAIEQGNLSLCETALDQGYSETKAFEMAGPSKGKES |
| 4523 | sp|P48731|ATH1\_ARATH | MDNNNNNNTFSSLDNVMTNQNPLLMDFIPSREDSTSFSTMLPWNTIRSDPLQMGGFDIFNSMLTNKYLSSSPRSIDVQDNRNVEFMAPPPHPPPLHPLDHLRHYDDSSNNMWGFEANSEFQAFSGVVGPSEPMMSTFGEEDFPFLISNKRNNELSLSLASDVSDECSEISLCAATRLASEQASCSSKDISNNVVTQGFSQLIFGSKYLHSVQEILSHFAAYSLDYSSRGTESGAASSAFTSRFENITEFLDGDSNNSEAGFGSTFQRRALEAKKTHLLDLLQMVDDRYSHCVDEIHTVISAFHAATELDPQLHTRFALQTVSFLYKNLRERICKKIISMGSVLERGKDKTQETSMFHQHCLLQQLKRKNHQIWRPQRGLPEKSVSVLRNWMFQNFLHPYPKDSEKHLLAIRSGLTRSQVSNWFINARVRLWKPMIEEMYAEMNKRKLNNSHIQPNGPTLRMPKSVMMSQAMHK |
| 4524 | sp|P38182|ATG8\_YEAST | MKSTFKSEYPFEKRKAESERIADRFKNRIPVICEKAEKSDIPEIDKRKYLVPADLTVGQFVYVIRKRIMLPPEKAIFIFVNDTLPPTAALMSAIYQEHKDKDGFLYVTYSGENTFGR |
| 4525 | sp|P46597|ASMT\_HUMAN | MGSSEDQAYRLLNDYANGFMVSQVLFAACELGVFDLLAEAPGPLDVAAVAAGVRASAHGTELLLDICVSLKLLKVETRGGKAFYRNTELSSDYLTTVSPTSQCSMLKYMGRTSYRCWGHLADAVREGRNQYLETFGVPAEELFTAIYRSEGERLQFMQALQEVWSVNGRSVLTAFDLSVFPLMCDLGGGAGALAKECMSLYPGCKITVFDIPEVVWTAKQHFSFQEEEQIDFQEGDFFKDPLPEADLYILARVLHDWADGKCSHLLERIYHTCKPGGGILVIESLLDEDRRGPLLTQLYSLNMLVQTEGQERTPTHYHMLLSSAGFRDFQFKKTGAIYDAILARK |
| 4526 | sp|P16951|ATF2\_MOUSE | MSDDKPFLCTAPGCGQRFTNEDHLAVHKHKHEMTLKFGPARNDSVIVADQTPTPTRFLKNCEEVGLFNELASPFENEFKKASEDDIKKMPLDLSPLATPIIRSKIEEPSVVETTHQDSPLPHPESTTSDEKEVPLAQTAQPTSAIVRPASLQVPNVLLTSSDSSVIIQQAVPSPTSSTVITQAPSSNRPIVPVPGPFPLLLHLPNGQTMPVAIPASITSSNVHVPAAVPLVRPVTMVPSVPGIPGPSSPQPVQSEAKMRLKAALTQQHPPVTNGDTVKGHGSGLVRTQSEESRPQSLQQPATSTTETPASPAHTTPQTQNTSGRRRRAANEDPDEKRRKFLERNRAAASRCRQKRKVWVQSLEKKAEDLSSLNGQLQSEVTLLRNEVAQLKQLLLAHKDCPVTAMQKKSGYHTADKDDSSEDLSVPSSPHTEAIQHSSVSTSNGVSSTSKAEAVATSVLTQMADQSTEPALSQIVMAPPSQAQPSGS |
| 4527 | sp|O74312|ATG9\_SCHPO | MFYQPAQNKKQYDDLADIEAQNNVPNTQEVLEAWQESLDSDEDESSPLEESNGFTISEHDDFVKSVPRKNNPTDLLYSGKLLDSDEPPSVHGNSSKVPSKHPSPSFPETTSLRNLQNGSKQKPALPNFNDPHFYNEDVTRSGHPNRSIYTQLPRNEFSNARVLWNRLSARDRVLWRWANVENLDSFLQQVYTYYTGKGLSCIIVHRLFQILTVSFVIGFTTFITSCIDWPAVTPHGSLAGVTKSQCIAQMSPITYLVLWLFLSFLLALWIYYLTDIPRLWQMREFYIHALKIATADMPTVSWQRVLYRLLKLKNVNALTAEDGRVVSLHNMKRLDAYAIANRIMRKDNYFIALINNGIINIELPLLHRRILTHTTEWNINWCIFNFVFDEQGQLRSAFRNPNSRKRLSEELRRRFIVAGFLNCLFAPIVAIYLVIHNFFRYFNEYHKNPGALSTRRYTPLALWTFREYNELQHFFDERINDSYAAASHYVSQFPDFNMIRLFKYISFILGSFTAILVIITVFDPELMVTFEITKDRSVLFYLGLFGSLIAVSRSIIPDETLVFAPEKALRRVITFTHYMPGWWSDNMHSKAVQQEFCSLYSYRIVNLLWEILGILLTPVLLFFTFPSCSQDIVDFFREHTINVEGVGYVCSYAVFQDNPPYESVASLVQSRKISPLIQNKPELSRISFYEQFNTEAPRRDLR |
| 4528 | sp|O35885|ASCL2\_MOUSE | MEAHLDWYGVPGLQEASDACPRESCSSALPEAREGANVHFPPHPVPREHFSCAAPELVAGAQGLNASLMDGGALPRLMPTSSGVAGACAARRRQASPELLRCSRRRRSGATEASSSSAAVARRNERERNRVKLVNLGFQALRQHVPHGGANKKLSKVETLRSAVEYIRALQRLLAEHDAVRAALAGGLLTPATPPSDECAQPSASPASASLSCASTSPSPDRLGCSEPTSPRSAYSSEESSCEGELSPMEQELLDFSSWLGGY |
| 4529 | sp|Q99J83|ATG5\_MOUSE | MTDDKDVLRDVWFGRIPTCFTLYQDEITEREAEPYYLLLPRVSYLTLVTDKVKKHFQKVMRQEDVSEIWFEYEGTPLKWHYPIGLLFDLLASSSALPWNITVHFKSFPEKDLLHCPSKDAVEAHFMSCMKEADALKHKSQVINEMQKKDHKQLWMGLQNDRFDQFWAINRKLMEYPPEENGFRYIPFRIYQTTTERPFIQKLFRPVAADGQLHTLGDLLREVCPSAVAPEDGEKRSQVMIHGIEPMLETPLQWLSEHLSYPDNFLHISIVPQPTD |
| 4530 | sp|Q9NQ11|AT132\_HUMAN | MSADSSPLVGSTPTGYGTLTIGTSIDPLSSSVSSVRLSGYCGSPWRVIGYHVVVWMMAGIPLLLFRWKPLWGVRLRLRPCNLAHAETLVIEIRDKEDSSWQLFTVQVQTEAIGEGSLEPSPQSQAEDGRSQAAVGAVPEGAWKDTAQLHKSEEAVSVGQKRVLRYYLFQGQRYIWIETQQAFYQVSLLDHGRSCDDVHRSRHGLSLQDQMVRKAIYGPNVISIPVKSYPQLLVDEALNPYYGFQAFSIALWLADHYYWYALCIFLISSISICLSLYKTRKQSQTLRDMVKLSMRVCVCRPGGEEEWVDSSELVPGDCLVLPQEGGLMPCDAALVAGECMVNESSLTGESIPVLKTALPEGLGPYCAETHRRHTLFCGTLILQARAYVGPHVLAVVTRTGFCTAKGGLVSSILHPRPINFKFYKHSMKFVAALSVLALLGTIYSIFILYRNRVPLNEIVIRALDLVTVVVPPALPAAMTVCTLYAQSRLRRQGIFCIHPLRINLGGKLQLVCFDKTGTLTEDGLDVMGVVPLKGQAFLPLVPEPRRLPVGPLLRALATCHALSRLQDTPVGDPMDLKMVESTGWVLEEEPAADSAFGTQVLAVMRPPLWEPQLQAMEEPPVPVSVLHRFPFSSALQRMSVVVAWPGATQPEAYVKGSPELVAGLCNPETVPTDFAQMLQSYTAAGYRVVALASKPLPTVPSLEAAQQLTRDTVEGDLSLLGLLVMRNLLKPQTTPVIQALRRTRIRAVMVTGDNLQTAVTVARGCGMVAPQEHLIIVHATHPERGQPASLEFLPMESPTAVNGVKDPDQAASYTVEPDPRSRHLALSGPTFGIIVKHFPKLLPKVLVQGTVFARMAPEQKTELVCELQKLQYCVGMCGDGANDCGALKAADVGISLSQAEASVVSPFTSSMASIECVPMVIREGRCSLDTSFSVFKYMALYSLTQFISVLILYTINTNLGDLQFLAIDLVITTTVAVLMSRTGPALVLGRVRPPGALLSVPVLSSLLLQMVLVTGVQLGGYFLTLAQPWFVPLNRTVAAPDNLPNYENTVVFSLSSFQYLILAAAVSKGAPFRRPLYTNVPFLVALALLSSVLVGLVLVPGLLQGPLALRNITDTGFKLLLLGLVTLNFVGAFMLESVLDQCLPACLRRLRPKRASKKRFKQLERELAEQPWPPLPAGPLR |
| 4531 | sp|P77398|ARNA\_ECOLI | MKTVVFAYHDMGCLGIEALLAAGYEISAIFTHTDNPGEKAFYGSVARLAAERGIPVYAPDNVNHPLWVERIAQLSPDVIFSFYYRHLIYDEILQLAPAGAFNLHGSLLPKYRGRAPLNWVLVNGETETGVTLHRMVKRADAGAIVAQLRIAIAPDDIAITLHHKLCHAARQLLEQTLPAIKHGNILEIAQRENEATCFGRRTPDDSFLEWHKPASVLHNMVRAVADPWPGAFSYVGNQKFTVWSSRVHPHASKAQPGSVISVAPLLIACGDGALEIVTGQAGDGITMQGSQLAQTLGLVQGSRLNSQPACTARRRTRVLILGVNGFIGNHLTERLLREDHYEVYGLDIGSDAISRFLNHPHFHFVEGDISIHSEWIEYHVKKCDVVLPLVAIATPIEYTRNPLRVFELDFEENLRIIRYCVKYRKRIIFPSTSEVYGMCSDKYFDEDHSNLIVGPVNKPRWIYSVSKQLLDRVIWAYGEKEGLQFTLFRPFNWMGPRLDNLNAARIGSSRAITQLILNLVEGSPIKLIDGGKQKRCFTDIRDGIEALYRIIENAGNRCDGEIINIGNPENEASIEELGEMLLASFEKHPLRHHFPPFAGFRVVESSSYYGKGYQDVEHRKPSIRNAHRCLDWEPKIDMQETIDETLDFFLRTVDLTDKPS |
| 4532 | sp|P07340|AT1B1\_RAT | MARGKAKEEGSWKKFIWNSEKKEFLGRTGGSWFKILLFYVIFYGCLAGIFIGTIQVMLLTISELKPTYQDRVAPPGLTQIPQIQKTEISFRPNDPKSYEAYVLNIIRFLEKYKDSAQKDDMIFEDCGSMPSEPKERGEFNHERGERKVCRFKLDWLGNCSGLNDESYGYKEGKPCIIIKLNRVLGFKPKPPKNESLETYPLTMKYNPNVLPVQCTGKRDEDKDKVGNIEYFGMGGFYGFPLQYYPYYGKLLQPKYLQPLLAVQFTNLTLDTEIRIECKAYGENIGYSEKDRFQGRFDVKIEVKS |
| 4533 | sp|P50430|ARSB\_RAT | MGELSGCTGGSRAGGPGPRLPLLLLLLLWPARASDAAPPPHVVFVLADDLGWNDLGFHGSVIRTPHLDALAAGGVVLDNYYVQPLCTPSRSQLLTGRYQIHMGLQHYLIMTCQPNCVPLDEKLLPQLLKDAGYATHMVGKWHLGMYRKECLPTRRGFDTYFGYLLGSEDYYTHEACAPIECLNGTRCALDLRDGEEPAKEYTDIYSTNIFTKRATTLIANHPPEKPLFLYLAFQSVHDPLQVPEEYMEPYDFIQDKHRRIYAGMVSLLDEAVGNVTKALKSRGLWNNTVLIFSTDNGGQTRSGGNNWPLRGRKGTLWEGGIRGAGFVASPLLKQKGVKSRELMHITDWLPTLVNLAGGSTHGTKPLDGFDVWETISEGSPSPRVELLLNIDPDFFDGLPCPGKNTTPEKNDSFPLEHSAFNTSIHAGIRYKNWKLLTGYPGCGYWFPPPSQSNISEVPSVDSPTKTLWLFDINRDPEERHDVSREHPHIVQNLLSRLQYYHEHSVPSYFPPLDPRCDPKGTGVWSPWM |
| 4534 | sp|O15392|BIRC5\_HUMAN | MGAPTLPPAWQPFLKDHRISTFKNWPFLEGCACTPERMAEAGFIHCPTENEPDLAQCFFCFKELEGWEPDDDPIEEHKKHSSGCAFLSVKKQFEELTLGEFLKLDRERAKNKIAKETNNKKKEFEETAKKVRRAIEQLAAMD |
| 4535 | sp|P27038|AVR2A\_MOUSE | MGAAAKLAFAVFLISCSSGAILGRSETQECLFFNANWERDRTNQTGVEPCYGDKDKRRHCFATWKNISGSIEIVKQGCWLDDINCYDRTDCIEKKDSPEVYFCCCEGNMCNEKFSYFPEMEVTQPTSNPVTPKPPYYNILLYSLVPLMLIAGIVICAFWVYRHHKMAYPPVLVPTQDPGPPPPSPLLGLKPLQLLEVKARGRFGCVWKAQLLNEYVAVKIFPIQDKQSWQNEYEVYSLPGMKHENILQFIGAEKRGTSVDVDLWLITAFHEKGSLSDFLKANVVSWNELCHIAETMARGLAYLHEDIPGLKDGHKPAISHRDIKSKNVLLKNNLTACIADFGLALKFEAGKSAGDTHGQVGTRRYMAPEVLEGAINFQRDAFLRIDMYAMGLVLWELASRCTAADGPVDEYMLPFEEEIGQHPSLEDMQEVVVHKKKRPVLRDYWQKHAGMAMLCETIEECWDHDAEARLSAGCVGERITQMQRLTNIITTEDIVTVVTMVTNVDFPPKESSL |
| 4536 | sp|Q99NF1|BCDO2\_MOUSE | MLGPKQSLPCIAPLLTTAEETLSAVSARVRGHIPEWLNGYLLRVGPGKFEFGKDRYNHWFDGMALLHQFRMERGTVTYKSKFLQSDTYKANSAGGRIVISEFGTLALPDPCKSIFERFMSRFEPPTMTDNTNVNFVQYKGDYYMSTETNFMNKVDIEMLERTEKVDWSKFIAVNGATAHPHYDPDGTAYNMGNSYGPRGSCYNIIRVPPKKKEPGETIHGAQVLCSIASTEKMKPSYYHSFGMTKNYIIFVEQPVKMKLWKIITSKIRGKPFADGISWEPQYNTRFHVVDKHTGQLLPGMYYSMPFLTYHQINAFEDQGCIVIDLCCQDDGRSLDLYQLQNLRKAGEGLDQVYELKAKSFPRRFVLPLDVSVDAAEGKNLSPLSYSSASAVKQGDGEIWCSPENLHHEDLEEEGGIEFPQINYGRFNGKKYSFFYGCGFRHLVGDSLIKVDVTNKTLRVWREEGFYPSEPVFVPVPGADEEDSGVILSVVITPNQSESNFLLVLDAKSFTELGRAEVPVQMPYGFHGTFVPI |
| 4537 | sp|Q9ZWC8|BRL1\_ARATH | MKQRWLLVLILCFFTTSLVMGIHGKHLINDDFNETALLLAFKQNSVKSDPNNVLGNWKYESGRGSCSWRGVSCSDDGRIVGLDLRNSGLTGTLNLVNLTALPNLQNLYLQGNYFSSGGDSSGSDCYLQVLDLSSNSISDYSMVDYVFSKCSNLVSVNISNNKLVGKLGFAPSSLQSLTTVDLSYNILSDKIPESFISDFPASLKYLDLTHNNLSGDFSDLSFGICGNLTFFSLSQNNLSGDKFPITLPNCKFLETLNISRNNLAGKIPNGEYWGSFQNLKQLSLAHNRLSGEIPPELSLLCKTLVILDLSGNTFSGELPSQFTACVWLQNLNLGNNYLSGDFLNTVVSKITGITYLYVAYNNISGSVPISLTNCSNLRVLDLSSNGFTGNVPSGFCSLQSSPVLEKILIANNYLSGTVPMELGKCKSLKTIDLSFNELTGPIPKEIWMLPNLSDLVMWANNLTGTIPEGVCVKGGNLETLILNNNLLTGSIPESISRCTNMIWISLSSNRLTGKIPSGIGNLSKLAILQLGNNSLSGNVPRQLGNCKSLIWLDLNSNNLTGDLPGELASQAGLVMPGSVSGKQFAFVRNEGGTDCRGAGGLVEFEGIRAERLERLPMVHSCPATRIYSGMTMYTFSANGSMIYFDISYNAVSGFIPPGYGNMGYLQVLNLGHNRITGTIPDSFGGLKAIGVLDLSHNNLQGYLPGSLGSLSFLSDLDVSNNNLTGPIPFGGQLTTFPVSRYANNSGLCGVPLRPCGSAPRRPITSRIHAKKQTVATAVIAGIAFSFMCFVMLVMALYRVRKVQKKEQKREKYIESLPTSGSCSWKLSSVPEPLSINVATFEKPLRKLTFAHLLEATNGFSAETMVGSGGFGEVYKAQLRDGSVVAIKKLIRITGQGDREFMAEMETIGKIKHRNLVPLLGYCKVGEERLLVYEYMKWGSLETVLHEKSSKKGGIYLNWAARKKIAIGAARGLAFLHHSCIPHIIHRDMKSSNVLLDEDFEARVSDFGMARLVSALDTHLSVSTLAGTPGYVPPEYYQSFRCTAKGDVYSYGVILLELLSGKKPIDPGEFGEDNNLVGWAKQLYREKRGAEILDPELVTDKSGDVELFHYLKIASQCLDDRPFKRPTMIQLMAMFKEMKADTEEDESLDEFSLKETPLVEESRDKEP |
| 4538 | sp|Q8SWR8|ATX2\_DROME | MNNNSKRKTRPTGGGASGGISRYNSNDNSLRPTNNKAGAGGGNGGAAVRPSAQGVYNNTFFMHSATALVGSVVEVRLRSGNIYEGVFRTFSGNFDIALELPACIKSKNLPEEGKVPKHIIFPADTVVTIVAKDFDSQYATAGAFQTDGAISDKCNGARPDEKELEPWDSGANGDIDIELDSAANGWDPNEMFRKNENTFGVTSTFDDSLASYTVPLDKGDSLEFKEAEAKAEKLAAEIENNPTCRDRLDLENGDEEALFAAVERPSTEQDQRGDRGDRERNDRDREREERDRDRDRDRGNKPRGAGDFQLRETMSSDRYITKQTRSITGPQLSHVGMSSQGSGRDRDTRGDGSMMMQSGGGSGQGGSTQSTAALMLAGGLKGVGPAPSANASADSSSKYSGGSMVKRKTVPQGGKVMRNNVPTGGSNVSVSQGGNGNSVGQNKGGYQPSMGMPSQYSYQGNSQIMHGSSQYRNQSHMGGANKLNGDSNANTNKPLPQRQMRQYQGSQSNSSLNYGGEPQSLGKPVHGSHGGHPGQNSNSPPLQTAGPQQQQQQQQQQQQQQQQQQPPQQQQHQNIQPQGQNTQPARQVRTRDNQMQELRQFGQDFQLAPSNTSPPQQQQQQQQQQQQHQVQQQQQRALQQSASPPQQQQQQQQQQQHVVLHQVPQTHLHQAALSQPHYVPQQQPQQAPLPQQQHVPHHMQQKAQQQQLVETQHQHVQKQHQSQPQVQQPPPQLLQDPSQQPLPIYHTMPPPQTSPVVVTSPVLLEQPPPQPMPVVQQQQTQQLATPKPEVSPAPPSSNTTTPTGIASTPTAGVIASAGSEKTTPAAPTPTSNSATVPTGTAATAGGATGTTPVVKKHVLNPSAKPFTPRGPSTPNPSRPHTPQTPVPMTNIYTTTGGHVPPAANQPIYVMQPQHPFPPQTHPQAGQPPRLRRSNYPPMAASQMHVSASAATGQPLITAGPIPQFIQYGHAPHQQQFQSHTYAPMQMRVYPDQPQQLQFMTQTPQSTTPSPGQPHQQFHPPPQPSPAGGGPQPAFTPPTQAATYQLMCVHPQSLLANHYFPPPTPQHPQQNQQQYQIVMQQHQPQ |
| 4539 | sp|P18075|BMP7\_HUMAN | MHVRSLRAAAPHSFVALWAPLFLLRSALADFSLDNEVHSSFIHRRLRSQERREMQREILSILGLPHRPRPHLQGKHNSAPMFMLDLYNAMAVEEGGGPGGQGFSYPYKAVFSTQGPPLASLQDSHFLTDADMVMSFVNLVEHDKEFFHPRYHHREFRFDLSKIPEGEAVTAAEFRIYKDYIRERFDNETFRISVYQVLQEHLGRESDLFLLDSRTLWASEEGWLVFDITATSNHWVVNPRHNLGLQLSVETLDGQSINPKLAGLIGRHGPQNKQPFMVAFFKATEVHFRSIRSTGSKQRSQNRSKTPKNQEALRMANVAENSSSDQRQACKKHELYVSFRDLGWQDWIIAPEGYAAYYCEGECAFPLNSYMNATNHAIVQTLVHFINPETVPKPCCAPTQLNAISVLYFDDSSNVILKKYRNMVVRACGCH |
| 4540 | sp|O75936|BODG\_HUMAN | MACTIQKAEALDGAHLMQILWYDEEESLYPAVWLRDNCPCSDCYLDSAKARKLLVEALDVNIGIKGLIFDRKKVYITWPDEHYSEFQADWLKKRCFSKQARAKLQRELFFPECQYWGSELQLPTLDFEDVLRYDEHAYKWLSTLKKVGIVRLTGASDKPGEVSKLGKRMGFLYLTFYGHTWQVQDKIDANNVAYTTGKLSFHTDYPALHHPPGVQLLHCIKQTVTGGDSEIVDGFNVCQKLKKNNPQAFQILSSTFVDFTDIGVDYCDFSVQSKHKIIELDDKGQVVRINFNNATRDTIFDVPVERVQPFYAALKEFVDLMNSKESKFTFKMNPGDVITFDNWRLLHGRRSYEAGTEISRHLEGAYADWDVVMSRLRILRQRVENGN |
| 4541 | sp|P15056|BRAF\_HUMAN | MAALSGGGGGGAEPGQALFNGDMEPEAGAGAGAAASSAADPAIPEEVWNIKQMIKLTQEHIEALLDKFGGEHNPPSIYLEAYEEYTSKLDALQQREQQLLESLGNGTDFSVSSSASMDTVTSSSSSSLSVLPSSLSVFQNPTDVARSNPKSPQKPIVRVFLPNKQRTVVPARCGVTVRDSLKKALMMRGLIPECCAVYRIQDGEKKPIGWDTDISWLTGEELHVEVLENVPLTTHNFVRKTFFTLAFCDFCRKLLFQGFRCQTCGYKFHQRCSTEVPLMCVNYDQLDLLFVSKFFEHHPIPQEEASLAETALTSGSSPSAPASDSIGPQILTSPSPSKSIPIPQPFRPADEDHRNQFGQRDRSSSAPNVHINTIEPVNIDDLIRDQGFRGDGGSTTGLSATPPASLPGSLTNVKALQKSPGPQRERKSSSSSEDRNRMKTLGRRDSSDDWEIPDGQITVGQRIGSGSFGTVYKGKWHGDVAVKMLNVTAPTPQQLQAFKNEVGVLRKTRHVNILLFMGYSTKPQLAIVTQWCEGSSLYHHLHIIETKFEMIKLIDIARQTAQGMDYLHAKSIIHRDLKSNNIFLHEDLTVKIGDFGLATVKSRWSGSHQFEQLSGSILWMAPEVIRMQDKNPYSFQSDVYAFGIVLYELMTGQLPYSNINNRDQIIFMVGRGYLSPDLSKVRSNCPKAMKRLMAECLKKKRDERPLFPQILASIELLARSLPKIHRSASEPSLNRAGFQTEDFSLYACASPKTPIQAGGYGAFPVH |
| 4542 | sp|P16009|BP5\_BPT4 | MEMISNNLNWFVGVVEDRMDPLKLGRVRVRVVGLHPPQRAQGDVMGIPTEKLPWMSVIQPITSAAMSGIGGSVTGPVEGTRVYGHFLDKWKTNGIVLGTYGGIVREKPNRLEGFSDPTGQYPRRLGNDTNVLNQGGEVGYDSSSNVIQDSNLDTAINPDDRPLSEIPTDDNPNMSMAEMLRRDEGLRLKVYWDTEGYPTIGIGHLIMKQPVRDMAQINKVLSKQVGREITGNPGSITMEEATTLFERDLADMQRDIKSHSKVGPVWQAVNRSRQMALENMAFQMGVGGVAKFNTMLTAMLAGDWEKAYKAGRDSLWYQQTKGRASRVTMIILTGNLESYGVEVKTPARSLSAMAATVAKSSDPADPPIPNDSRILFKEPVSSYKGEYPYVHTMETESGHIQEFDDTPGQERYRLVHPTGTYEEVSPSGRRTRKTVDNLYDITNADGNFLVAGDKKTNVGGSEIYYNMDNRLHQIDGSNTIFVRGDETKTVEGNGTILVKGNVTIIVEGNADITVKGDATTLVEGNQTNTVNGNLSWKVAGTVDWDVGGDWTEKMASMSSISSGQYTIDGSRIDIG |
| 4543 | sp|O18017|BLM\_CAEEL | MIKNREIEVAPPRRTIQFGGYTFVEPDLNFKAPIFSCCGSIRDPSCEEREEEYIDNGHDEEPPVEVNRIQESTSFDEPVSSPPRYRPSENPGPSSSSYEPGHYSFNEYQQFPSRPQKRLVDPPIVDLDEEPPIVDLDDSFDNFHVGSTSEEVVSGDIAPEEEEEEGHDSFDDFESVPAQPPSKNTLASLQKSDSEIALNQQRHDMHGRFRGFLQDDSEEFSDEVGLLGADMNKELYDTLKSKFGFNQFRHRQKQCILSTLMGHDTFVLMPTGAGKSLCYQLPAVILPGVTVVVSPLRSLIEDQKMKMKELGIGCEALTADLGAPAQEKIYAELGSGNPSIKLLYVTPEKISASGRLNSVFFDLHRRGLLARFVIDEAHCVSQWGHDFRPDYTKLSSLREKYANPPVPIIALTATATPKIVTDARDHLKMQNSKLFISSFVRDNLKYDLIPKAARSLINVVEKMKQLYPGKSGIVYCLSRKECETVQMMLTKAGLSAEVYHAGLNDNLRVSVQRSWIANKFDVICATIAFGMGIDKPDVRFVIHYSLPKSIEGYYQETGRAGRDGMPSYCLMLYSYHDSIRLRRMIEEGNTTTGVRSMHLNNVLQVVAYCENVSVCRRKMLVEHFGEVYDEQSCRNSKTPCDICERQRKNAEAIRLFDVSTDALSILKCLPRMQKATLKYISELYRGALIKKSQEQAMRLGHTKLPFYSKGQGMSEQDALRFVRKLVIEGYIHERLYSVPNQAAAVFAYAELTEAGRDLANGKKTAKVYLHIVTCERKRKNAGLIELSNMNIVSEAQALKERHMVKHGDVFTRCLQDLTHLITAVAESSGLSGPYSIVSREGIEQIAALLPRTNSDLLRIDSMTQIKVTKYGRLIMELLATYWKQVDEREEEEMRNQLDKLKSGEIVMGGFATLQSDPGFPSVPYMKPLGGGGGCRGRGKKRAFSGFSSGRATKKPRATAPSARGKTSGRGGAKPATSLKRNMYPATSM |
| 4544 | sp|Q9I700|BAUA\_PSEAE | MNQPLNVAPPVSSELNLRAHWMPFSANRNFQKDPRIIVAAEGSWLTDDKGRKVYDSLSGLWTCGAGHSRKEIQEAVARQLGTLDYSPGFQYGHPLSFQLAEKIAGLLPGELNHVFFTGSGSECADTSIKMARAYWRLKGQPQKTKLIGRARGYHGVNVAGTSLGGIGGNRKMFGQLMDVDHLPHTLQPGMAFTRGMAQTGGVELANELLKLIELHDASNIAAVIVEPMSGSAGVLVPPVGYLQRLREICDQHNILLIFDEVITAFGRLGTYSGAEYFGVTPDLMNVAKQVTNGAVPMGAVIASSEIYDTFMNQALPEHAVEFSHGYTYSAHPVACAAGLAALDILARDNLVQQSAELAPHFEKGLHGLQGAKNVIDIRNCGLAGAIQIAPRDGDPTVRPFEAGMKLWQQGFYVRFGGDTLQFGPTFNARPEELDRLFDAVGEALNGIA |
| 4545 | sp|O81192|BPPS\_SALOF | MSIISMNVSILSKPLNCLHNLERRPSKALLVPCTAPTARLRASCSSKLQEAHQIRRSGNYQPALWDSNYIQSLNTPYTEERHLDRKAELIVQVRILLKEKMEPVQQLELIHDLKYLGLSDFFQDEIKEILGVIYNEHKCFHNNEVEKMDLYFTALGFRLLRQHGFNISQDVFNCFKNEKGIDFKASLAQDTKGMLQLYEASFLLRKGEDTLELAREFATKCLQKKLDEGGNEIDENLLLWIRHSLDLPLHWRIQSVEARWFIDAYARRPDMNPLIFELAKLNFNIIQATHQQELKDLSRWWSRLCFPEKLPFVRDRLVESFFWAVGMFEPHQHGYQRKMAATIIVLATVIDDIYDVYGTLDELELFTDTFKRWDTESITRLPYYMQLCYWGVHNYISDAAYDILKEHGFFCLQYLRKSVVDLVEAYFHEAKWYHSGYTPSLDEYLNIAKISVASPAIISPTYFTFANASHDTAVIDSLYQYHDILCLAGIILRLPDDLGTSYFELARGDVPKTIQCYMKETNASEEEAVEHVKFLIREAWKDMNTAIAAGYPFPDGMVAGAANIGRVAQFIYLHGDGFGVQHSKTYEHIAGLLFEPYA |
| 4546 | sp|Q969J3|BORC5\_HUMAN | MGSEQSSEAESRPNDLNSSVTPSPAKHRAKMDDIVVVAQGSQASRNVSNDPDVIKLQEIPTFQPLLKGLLSGQTSPTNAKLEKLDSQQVLQLCLRYQDHLHQCAEAVAFDQNALVKRIKEMDLSVETLFSFMQERQKRYAKYAEQIQKVNEMSAILRRIQMGIDQTVPLLDRLNSMLPEGERLEPFSMKPDRELRL |
| 4547 | sp|Q9UMX3|BOK\_HUMAN | MEVLRRSSVFAAEIMDAFDRSPTDKELVAQAKALGREYVHARLLRAGLSWSAPERAAPVPGRLAEVCAVLLRLGDELEMIRPSVYRNVARQLHISLQSEPVVTDAFLAVAGHIFSAGITWGKVVSLYAVAAGLAVDCVRQAQPAMVHALVDCLGEFVRKTLATWLRRRGGWTDVLKCVVSTDPGLRSHWLVAALCSFGRFLKAAFFVLLPER |
| 4548 | sp|P29147|BDH\_RAT | MLAARLSRPLSQLPGKALSVCDRENGTRHTLLFYPASFSPDTRRTYTSQADAASGKAVLVTGCDSGFGFSLAKHLHSKGFLVFAGCLLKDKGDAGVRELDSLKSDRLRTIQLNVCNSEEVEKAVETVRSGLKDPEKGMWGLVNNAGISTFGEVEFTSMETYKEVAEVNLWGTVRTTKSFLPLLRRAKGRVVNISSMLGRMANPARSPYCITKFGVEAFSDCLRYEMHPLGVKVSVVEPGNFIAATSLYSPERIQAIAKKMWDELPEVVRKDYGKKYFDEKIAKMETYCNSGSTDTSSVINAVTHALTAATPYTRYHPMDYYWWLRMQVMTHFPGAISDKIYIH |
| 4549 | sp|P50747|BPL1\_HUMAN | MEDRLHMDNGLVPQKIVSVHLQDSTLKEVKDQVSNKQAQILEPKPEPSLEIKPEQDGMEHVGRDDPKALGEEPKQRRGSASGSEPAGDSDRGGGPVEHYHLHLSSCHECLELENSTIESVKFASAENIPDLPYDYSSSLESVADETSPEREGRRVNLTGKAPNILLYVGSDSQEALGRFHEVRSVLADCVDIDSYILYHLLEDSALRDPWTDNCLLLVIATRESIPEDLYQKFMAYLSQGGKVLGLSSSFTFGGFQVTSKGALHKTVQNLVFSKADQSEVKLSVLSSGCRYQEGPVRLSPGRLQGHLENEDKDRMIVHVPFGTRGGEAVLCQVHLELPPSSNIVQTPEDFNLLKSSNFRRYEVLREILTTLGLSCDMKQVPALTPLYLLSAAEEIRDPLMQWLGKHVDSEGEIKSGQLSLRFVSSYVSEVEITPSCIPVVTNMEAFSSEHFNLEIYRQNLQTKQLGKVILFAEVTPTTMRLLDGLMFQTPQEMGLIVIAARQTEGKGRGGNVWLSPVGCALSTLLISIPLRSQLGQRIPFVQHLMSVAVVEAVRSIPEYQDINLRVKWPNDIYYSDLMKIGGVLVNSTLMGETFYILIGCGFNVTNSNPTICINDLITEYNKQHKAELKPLRADYLIARVVTVLEKLIKEFQDKGPNSVLPLYYRYWVHSGQQVHLGSAEGPKVSIVGLDDSGFLQVHQEGGEVVTVHPDGNSFDMLRNLILPKRR |
| 4550 | sp|Q9LD45|BI1\_ARATH | MDAFSSFFDSQPGSRSWSYDSLKNFRQISPAVQNHLKRVYLTLCCALVASAFGAYLHVLWNIGGILTTIGCIGTMIWLLSCPPYEHQKRLSLLFVSAVLEGASVGPLIKVAIDVDPSILITAFVGTAIAFVCFSAAAMLARRREYLYLGGLLSSGLSMLMWLQFASSIFGGSASIFKFELYFGLLIFVGYMVVDTQEIIEKAHLGDMDYVKHSLTLFTDFVAVFVRILIIMLKNSADKEEKKKKRRN |
| 4551 | sp|Q13145|BAMBI\_HUMAN | MDRHSSYIFIWLQLELCAMAVLLTKGEIRCYCDAAHCVATGYMCKSELSACFSRLLDPQNSNSPLTHGCLDSLASTTDICQAKQARNHSGTTIPTLECCHEDMCNYRGLHDVLSPPRGEASGQGNRYQHDGSRNLITKVQELTSSKELWFRAAVIAVPIAGGLILVLLIMLALRMLRSENKRLQDQRQQMLSRLHYSFHGHHSKKGQVAKLDLECMVPVSGHENCCLTCDKMRQADLSNDKILSLVHWGMYSGHGKLEFV |
| 4552 | sp|Q6P768|B4GT3\_RAT | MLRRLLERPCTLALLVGSQLAVMMYLSLGGFRSLSALFGRDPGPTFDYSHPHDVYSNLSHLPGAPGAAGAPLAQVLPDCPERSPFLVGPVSVSFSPVPSLAEIVERNPRVESGGRYRPAGCEPRSRTAIIVPHRAREHHLRLLLYHLHPFLQRQQLAYGIYVIHQAGNGTFNRAKLLNVGVREALRDEEWDCLFLHDVDLLPENDHNLYVCDPRGPRHVAVAMNKFGYSLPYPQYFGGVSALTPDQYLKMNGFPNEYWGWGGEDDDIATRVRLAGMKISRPPTSVGHYKMVKHRGDKGNEENPHRFDLLVRTQNSWTQDGMNSLTYRLLARELGPLYTNITADIGTDPRGPRAPSGPRYPPGSSQAFRQEMLQRRPPARPGPLPTANHTAPHGSH |
| 4553 | sp|Q14457|BECN1\_HUMAN | MEGSKTSNNSTMQVSFVCQRCSQPLKLDTSFKILDRVTIQELTAPLLTTAQAKPGETQEEETNSGEEPFIETPRQDGVSRRFIPPARMMSTESANSFTLIGEASDGGTMENLSRRLKVTGDLFDIMSGQTDVDHPLCEECTDTLLDQLDTQLNVTENECQNYKRCLEILEQMNEDDSEQLQMELKELALEEERLIQELEDVEKNRKIVAENLEKVQAEAERLDQEEAQYQREYSEFKRQQLELDDELKSVENQMRYAQTQLDKLKKTNVFNATFHIWHSGQFGTINNFRLGRLPSVPVEWNEINAAWGQTVLLLHALANKMGLKFQRYRLVPYGNHSYLESLTDKSKELPLYCSGGLRFFWDNKFDHAMVAFLDCVQQFKEEVEKGETRFCLPYRMDVEKGKIEDTGGSGGSYSIKTQFNSEEQWTKALKFMLTNLKWGLAWVSSQFYNK |
| 4554 | sp|Q5T5X7|BEND3\_HUMAN | MNSTEFTEDVEEVLKSITVKVETEAEDAALDCSVNSRTSEKHSVDSVLTALQDSSKRKQLVSDGLLDSVPGVKRRRLIPEALLAGMRNRENSSPCQGNGEQAGRGRSLGNVWPGEEEPCNDATTPSYKKPLYGISHKIMEKKNPPSGDLLNVYELFEKANASNSPSSLRLLNEPQKRDCGSTGAGTDNDPNIYFLIQKMFYMLNTLTSNMSQLHSKVDLLSLEVSRIKKQVSPTEMVAKFQPPPEYQLTAAELKQIVDQSLSGGDLACRLLVQLFPELFSDVDFSRGCSACGFAAKRKLESLHLQLIRNYVEVYYPSVKDTAVWQAECLPQLNDFFSRFWAQREMEDSQPSGQVASFFEAEQVDPGHFLDNKDQEEALSLDRSSTIASDHVVDTQDLTEFLDEASSPGEFAVFLLHRLFPELFDHRKLGEQYSCYGDGGKQELDPQRLQIIRNYTEIYFPDMQEEEAWLQQCAQRINDELEGLGLDAGSEGDPPRDDCYDSSSLPDDISVVKVEDSFEGERPGRRSKKIWLVPIDFDKLEIPQPDFEVPGADCLLSKEQLRSIYESSLSIGNFASRLLVHLFPELFTHENLRKQYNCSGSLGKKQLDPSRIKLIRHYVQLLYPRAKNDRVWTLEFVGKLDERCRRRDTEQRRSYQQQRKVHVPGPECRDLTSYAINPERFREEFEGPPLPPERSSKDFCKIPLDELVVPSPDFPVPSPYLLSDKEVREIVQQSLSVGNFAARLLVRLFPELFTAENLRLQYNHSGACNKKQLDPTRLRLIRHYVEAVYPVEKMEEVWHYECIPSIDERCRRPNRKKCDILKKAKKVEK |
| 4555 | sp|Q49A88|CCD14\_HUMAN | MKRGIRRDPFRKRKLGGRAKKVREPTAVNSFYREASLPSVWASLRRREMVRSGARPGQVLSSGRHTGPAKLTNGKKATYLRKIPRFNADSGYSIHSDSESQAETVHGLDGCASLLRDILRNEDSGSETAYLENRSNSRPLESKRYGSKKKRHEKHTIPLVVQKETSSSDNKKQIPNEASARSERDTSDLEQNWSLQDHYRMYSPIIYQALCEHVQTQMSLMNDLTSKNIPNGIPAVPCHAPSHSESQATPHSSYGLCTSTPVWSLQRPPCPPKVHSEVQTDGNSQFASQGKTVSATCTDVLRNSFNTSPGVPCSLPKTDISAIPTLQQLGLVNGILPQQGIHKETDLLKCIQTYLSLFRSHGKETHLDSQTHRSPTQSQPAFLATNEEKCAREQIREATSERKDLNIHVRDTKTVKDVQKAKNVNKTAEKVRIIKYLLGELKALVAEQEDSEIQRLITEMEACISVLPTVSGNTDIQVEIALAMQPLRSENAQLRRQLRILNQQLREQQKTQKPSGAVDCNLELFSLQSLNMSLQNQLEESLKSQELLQSKNEELLKVIENQKDENKKFSSIFKDKDQTILENKQQYDIEITRIKIELEEALVNVKSSQFKLETAEKENQILGITLRQRDAEVTRLRELTRTLQTSMAKLLSDLSVDSARCKPGNNLTKSLLNIHDKQLQHDPAPAHTSIMSYLNKLETNYSFTHSEPLSTIKNEETIEPDKTYENVLSSRGPQNSNTRGMEEASAPGIISALSKQDSDEGSETMALIEDEHNLDNTIYIPFARSTPEKKSPLSKRLSPQPQIRAATTQLVSNSGLAVSGKENKLCTPVICSSSTKEAEDAPEKLSRASDMKDTQLLKKIKEAIGKIPAATKEPEEQTACHGPSGCLSNSLQVKGNTVCDGSVFTSDLMSDWSISSFSTFTSRDEQDFRNGLAALDANIARLQKSLRTGLLEK |
| 4556 | sp|P20160|CAP7\_HUMAN | MTRLTVLALLAGLLASSRAGSSPLLDIVGGRKARPRQFPFLASIQNQGRHFCGGALIHARFVMTAASCFQSQNPGVSTVVLGAYDLRRRERQSRQTFSISSMSENGYDPQQNLNDLMLLQLDREANLTSSVTILPLPLQNATVEAGTRCQVAGWGSQRSGGRLSRFPRFVNVTVTPEDQCRPNNVCTGVLTRRGGICNGDGGTPLVCEGLAHGVASFSLGPCGRGPDFFTRVALFRDWIDGVLNNPGPGPA |
| 4557 | sp|Q8SXL2|CCHA2\_DROME | MKSTISLLLVVICTVVLAAQQSQAKKGCQAYGHVCYGGHGKRSLSPGSGSGTGVGGGMGEAASGGQEPDYVRPNGLLPMMAPNEQVPLEGDFNDYPARQVLYKIMKSWFNRPRRPASRLGELDYPLANSAELNGVN |
| 4558 | sp|P06307|CCKN\_HUMAN | MNSGVCLCVLMAVLAAGALTQPVPPADPAGSGLQRAEEAPRRQLRVSQRTDGESRAHLGALLARYIQQARKAPSGRMSIVKNLQNLDPSHRISDRDYMGWMDFGRRSAEEYEYPS |
| 4559 | sp|Q9SJM0|CALSA\_ARATH | MARVYSNWDRLVRATLRREQLRNTGQGHERVSSGLAGAVPPSLGRATNIDAILQAADEIQSEDPSVARILCEQAYSMAQNLDPNSDGRGVLQFKTGLMSVIKQKLAKRDGASIDRDRDIERLWEFYKLYKRRHRVDDIQKEEQKWRESGTTFSSNVGEILKMRKVFATLRALIEVLEVLSRDADPNGVGRSIRDELGRIKKADATLSAELTPYNIVPLEAQSMTNAIGVFPEVRGAVQAIRYTEHFPRLPVDFEISGQRDADMFDLLEYIFGFQRDNVRNQREHLVLTLSNAQSQLSIPGQNDPKIDENAVNEVFLKVLDNYIKWCKYLRIRVVYNKLEAIDRDRKLFLVSLYFLIWGEAANVRFLPECICYIFHNMAKELDAKLDHGEAVRADSCLTGTDTGSVSFLERIICPIYETISAETVRNNGGKAAHSEWRNYDDFNEYFWTPACFELSWPMKTESRFLSKPKGRKRTAKSSFVEHRTYLHLFRSFIRLWIFMFIMFQSLTIIAFRNEHLNIETFKILLSAGPTYAIMNFIECLLDVVLMYGAYSMARGMAISRLVIRFLWWGLGSAFVVYYYVKVLDERNKPNQNEFFFHLYILVLGCYAAVRLIFGLLVKLPACHALSEMSDQSFFQFFKWIYQERYFVGRGLFENLSDYCRYVAFWLVVLASKFTFAYFLQIKPLVKPTNTIIHLPPFQYSWHDIVSKSNDHALTIVSLWAPVLAIYLMDIHIWYTLLSAIIGGVMGAKARLGEIRTIEMVHKRFESFPEAFAQNLVSPVVKRVPLGQHASQDGQDMNKAYAAMFSPFWNEIIKSLREEDYLSNREMDLLSIPSNTGSLRLVQWPLFLLCSKILVAIDLAMECKETQEVLWRQICDDEYMAYAVQECYYSVEKILNSMVNDEGRRWVERIFLEISNSIEQGSLAITLNLKKLQLVVSRFTALTGLLIRNETPDLAKGAAKAMFDFYEVVTHDLLSHDLREQLDTWNILARARNEGRLFSRIAWPRDPEIIEQVKRLHLLLTVKDAAANVPKNLEARRRLEFFTNSLFMDMPQARPVAEMVPFSVFTPYYSETVLYSSSELRSENEDGISILFYLQKIFPDEWENFLERIGRSESTGDADLQASSTDALELRFWVSYRGQTLARTVRGMMYYRRALMLQSFLERRGLGVDDASLTNMPRGFESSIEARAQADLKFTYVVSCQIYGQQKQQKKPEATDIGLLLQRYEALRVAFIHSEDVGNGDGGSGGKKEFYSKLVKADIHGKDEEIYSIKLPGDPKLGEGKPENQNHAIVFTRGEAIQTIDMNQDNYLEEAIKMRNLLEEFHGKHGIRRPTILGVREHVFTGSVSSLAWFMSNQETSFVTLGQRVLAYPLKVRMHYGHPDVFDRIFHITRGGISKASRVINISEDIYAGFNSTLRQGNITHHEYIQVGKGRDVGLNQIALFEGKVAGGNGEQVLSRDVYRIGQLFDFFRMMSFYFTTVGFYVCTMMTVLTVYVFLYGRVYLAFSGADRAISRVAKLSGNTALDAALNAQFLVQIGIFTAVPMVMGFILELGLLKAIFSFITMQFQLCSVFFTFSLGTRTHYFGRTILHGGAKYRATGRGFVVQHIKFADNYRLYSRSHFVKAFEVALLLIIYIAYGYTDGGASSFVLLTISSWFLVISWLFAPYIFNPSGFEWQKTVEDFEDWVSWLMYKGGVGVKGELSWESWWEEEQAHIQTLRGRILETILSLRFFMFQYGIVYKLDLTRKNTSLALYGYSWVVLVVIVFLFKLFWYSPRKSSNILLALRFLQGVASITFIALIVVAIAMTDLSIPDMFACVLGFIPTGWALLSLAITWKQVLRVLGLWETVREFGRIYDAAMGMLIFSPIALLSWFPFISTFQSRLLFNQAFSRGLEISIILAGNRANVET |
| 4560 | sp|Q61290|CAC1E\_MOUSE | MARFGEAVVVGRPGSGDGDSDQSRNRQGTPVPASGPAAAYKQSKAQRARTMALYNPIPVRQNCFTVNRSLFIFGEDNIVRKYAKKLIDWPPFEYMILATIIANCIVLALEQHLPEDDKTPMSRRLEKTEPYFIGIFCFEAGIKIVALGFIFHKGSYLRNGWNVMDFIVVLSGILATAGTHFNTHVDLRALRAVRVLRPLKLVSGIPSLQIVLKSIMKAMVPLLQIGLLLFFAILMFAIIGLEFYSGKLHRACFMNNSGILEGFDPPHPCGVQGCPAGYECKDWIGPNDGITQFDNILFAVLTVFQCITMEGWTTVLYNTNDALGATWNWLYFIPLIIIGSFFVLNLVLGVLSGEFAKERERVENRRAFMKLRRQQQIERELNGYRAWIDKAEEVMLAEENKNSGTSALEVLRRATIKRSRTEAMTRDSSDEHCVDISSVGTPLARASIKSTKVDGASYFRHKERLLRISIRHMVKSQVFYWIVLSVVALNTACVAIVHHNQPQWLTHLLYYAEFLFLGLFLLEMSLKMYGMGPRLYFHSSFNCFDFGVTVGSIFEVVWAIFRPGTSFGISVLRALRLLRIFKITKYWASLRNLVVSLMSSMKSIISLLFLLFLFIVVFALLGMQLFGGRFNFNDGTPSANFDTFPAAIMTVFQILTGEDWNEVMYNGIRSQGGVSSGMWSAIYFIVLTLFGNYTLLNVFLAIAVDNLANAQELTKDEQEEEEAFNQKHALQKAKEVSPMSAPNMPSIERDRRRRHHMSMWEPRSSHLRERRRRHHMSVWEQRTSQLRRHMQMSSQEALNKEEAPPMNPLNPLNPLSPLNPLNAHPSLYRRPRPIEGLALGLGLEKCEEERISRGGSLKGDIGGLTSALDNQRSPLSLGKREPPWLPRSCHGNCDPIQQEAGGGETVVTFEDRARHRQSQRRSRHRRVRTEGKDSASASRSRSASQERSLDEGVSVEGEKEHEPHSSHRSKEPTIHEEERTQDLRRTNSLMVPRGSGLVGALDEAETPLVQPQPELEVGKDAALTEQEAEGSSEQALLGDVQLDVGRGISQSEPDLSCMTANMDKATTESTSVTVAIPDVDPLVDSTVVNISNKTDGEASPLKEAETKEEEEEVEKKKKQKKEKRETGKAMVPHSSMFIFSTTNPIRRACHYIVNLRYFEMCILLVIAASSIALAAEDPVLTNSERNKVLRYFDYVFTGVFTFEMVIKMIDQGLILQDGSYFRDLWNILDFVVVVGALVAFALANALGTNKGRDIKTIKSLRVLRVLRPLKTIKRLPKLKAVFDCVVTSLKNVFNILIVYKLFMFIFAVIAVQLFKGKFFYCTDSSKDTEKECIGNYVDHEKNKMEVKGREWKRHEFHYDNIIWALLTLFTVSTGEGWPQVLQHSVDVTEEDRGPSRSNRMEMSIFYVVYFVVFPFFFVNIFVALIIITFQEQGDKMMEECSLEKNERACIDFAISAKPLTRYMPQNRHTFQYRVWHFVVSPSFEYTIMAMIALNTVVLMMKYYTAPCTYELALKYLNIAFTMVFSLECVLKVIAFGFLNYFRDTWNIFDFITVIGSITEIILTDSKLVNTSGFNMSFLKLFRAARLIKLLRQGYTIRILLWTFVQSFKALPYVCLLIAMLFFIYAIIGMQVFGNIKLDEESHINRHNNFRSFFGSLMLLFRSATGEAWQEIMLSCLGEKGCEPDTTAPSGQNESERCGTDLAYVYFVSFIFFCSFLMLNLFVAVIMDNFEYLTRDSSILGPHHLDEFVRVWAEYDRAACGRIHYTEMYEMLTLMSPPLGLGKRCPSKVAYKRLVLMNMPVAEDMTVHFTSTLMALIRTALDIKIAKGGADRQQLDSELQKETLAIWPHLSQKMLDLLVPMPKASDLTVGKIYAAMMIMDYYKQSKVKKQRQQLEEQKNAPMFQRMEPSSLPQEIIANAKALPYLQQDPVSGLSGRSGYPSMSPLSPQEIFQLACMDPADDGQFQEQQSLVVTDPSSMRRSFSTIRDKRSNSSWLEEFSMERSSENTYKSRRRSYHSSLRLSAHRLNSDSGHKSDTHRSGGRERGRSKERKHLLSPDVSRCNSEERGTQADWESPERRQSRSPSEGRSQTPNRQGTGSLSESSIPSISDTSTPRRSRRQLPPVPPKPRPLLSYSSLMRHTGGISPPPDGSEGGSPLASQALESNSACLTESSNSLHPQQGQHPSPQHYISEPYLALHEDSHASDCGEEETLTFEAAVATSLGRSNTIGSAPPLRHSWQMPNGHYRRRRWGAWAGMMCGAVSDLLSDTEEDDKC |
| 4561 | sp|Q6AYP5|CADM1\_RAT | MASPVLPSGSQCAAAAAVAAAAAPPGLRLRLLLLLLSAAALIPTGDGQNLFTKDVTVIEGEVATISCQVNKSDDSVIQLLNPNRQTIYFRDFRPLKDSRFQLLNFSSSELKVSLTNVSISDEGRYFCQLYTDPPQESYTTITVLVPPRNLMIDIQKDTAVEGEEIEVNCTAMASKPATTIRWFKGNKELKGKSEVEEWSDMYTVTSQLMLKVHKEDDGVPVICQVEHPAVTGNLQTQRYLEVQYKPQVQIQMTYPLQGLTREGDAFELTCEATGKPQPVMVTWVRVDDEMPQHAVLSGPNLFINNLNKTDNGTYRCEASNTVGKAHSDYMLYVYDPPTTIPPPTTTTTTTTTTTTTTTILTIITDTTATTEPAVHGLTQLPNSAEELDSEDLSDSRAGEEGAIGAVDHAVIGGVVAVVVFAMLCLLIILGRYFARHKGTYFTHEAKGADDAADADTAIINAEGGQNNSEEKKEYFI |
| 4562 | sp|Q9NRR3|C42S2\_HUMAN | MSEFWLCFNCCIAEQPQPKRRRRIDRSMIGEPTNFVHTAHVGSGDLFSGMNSVSSIQNQMQSKGGYGGGMPANVQMQLVDTKAG |
| 4563 | sp|Q9C0D2|CE295\_HUMAN | MKRKVVNTHKLRLSPNEEAFILKEDYERRRKLRLLQVREQERDIALQIREDIKQRRNQQFTRLAEELRAEWEESQTQKIQNLEKLYLASLRSMGEGHRQAKENEPDLDALAQRAAERKRKADLRHKEALKVQKNQKEILLKQKTWHIKARKEALLVEKERSAKITSLPPPPPTLFENIEVKRISAVKTNSSTYHHLHTFVNRETDTKRPDARLAAEEEAKRLEELQKQAAQERMERFEKAHVRGFQAMKKIHLAQNQEKLMKELKQLQQEDLARRRQTVAQMPPQLVELPYKRSEMKEDWQRELEFAFEDMYNADRKVKGNLILHLEPEPLPTVTNQIQDEELDLSMEQENLGAAEDLPVTEAEICSSETDVPLVMKTQQIPSKVLFKKLLNKIRSQKSLWTIKSMSEDESEMITTVSEIESKAPTVESGTIASKERTLSSGQEQVVESDTLTIESGPLASEDKPLSCGTNSGKEQEINETLPITTVAQSSVLLHPQEAAARIRMSARQKQIMEIEEQKQKQLELLEQIEQQKLRLETDCFRAQLEEEKRKKTQPTGVGIAPASCPVISDEDSHRQMIRNYQHQLLQQNRLHRQSVETARKQLLEYQTMLKGRCPSVSAPSLITDSVISVPSWKSERPTAISEHWDQGQRLKLSPNKYQPIQPIQTSKLEQDHFQVARQNHFPQRQVETTETLRASDILTNQALESQEHLRQFSQTETQQRDYKLVPKDSETLSRALSHDRQLISQDARKISETFGATTFQSLESQQLFSENSENISYHLTEPSSFVPLVPQHSFSSLPVKVESGKIQEPFSAMSKSTVSTSHSIISQMHDRPLLPSENITAQQGNMKALQEQLDLQKKVLQATQEAQEQLLLCKQKEVEQQTGLSVFLPLVTPDSSALLPSAKADLGRIQESSPTKNNIAVSSDHHVISQLQDKRLSLSQPILSQQNNFKFLQEQLNIQKDSLQARREAQEVLYVHKQSELDRRVCSEQAEPSFPFQVAQHTFTSLPSADTKSGKIQEQHSSKSEKGLVSCQSDIPISQDGSLSFLQQFLPLHDSLKLLQEQLTKQRDTLQARHEAQVELLLHRQRDLGDSKSGLVSSSSSPVVVQHSVASQASAKAEPRRIQELYLSEKENVGPSCHLIIPTFQDKSLSFPQHSLAQQENLTILQEQSQIQRVILGAKEGTQEFVHTESELEKRISSEQTGTSSSLSQVDESERFQECISIKSDSTIPLSHPKIPRCQERLLRVSQHMLPLQDNLEEHQAWLDTEKEAFHFSQKTQENTSSEQTGSSSFIPQLVQLSFTSLASAESGTILEPLFTESESKIFSSHLQIPQLQDRLLRISQLIQPQQDNLKALQEQLATQREAIILARQEAREELLLHQSEWEGRISPEQVDTSSLPLVPQHSFASLPLNESERNQEPCSINSDNIVSSGHSEIPTLPDGLLGLSHLVLPQQDNLIALEEHLHAQTDFLPSIEKTQKELVLSKPCKFEEKVSSEHFIQSHHGDLQALQQQLDTQKKAIRSIQEVQEELLLQRLSELEKRVSSEQVCSSSFVSQVPVADSERTQKSFPTKSNDTLPSSHREIPRLQDRLLSLSKPILPQQDNMTAQLDAQREVMYSYEKPQEELSLNKQRKLNKSESAEHTIPSLFLPKETEHSFIPLPFAEAKPKSTCELYSSQNEHAAPPSNPVIPGFQDRLLSFSQSVLTQQDNLGLQKQLDLQREVLHYSQKAQEKLLVQRQTALQQQIQKHEETLKDFFKDSQISKPTVENDLKTQKMGQLRDWFPNTQDLAGNDQENIRHADRNNSDDNHLASEDTSAKQSGEHLEKDLGRRSSKPPVAKVKCGLDLNQHELSAIQEVESPAIGRTSILGKPGIYEDRDPLRVSISREQSFFGSPLAHDPFSCLQLVGQENVCGDDYDEAVKLKESVVENHAVLSYAVEEEHAYLGPTVKPDDKAKTLSYEPLSSATVSTGSLLSYENTDLSLTDPESFSEHMDDSKQESTTSKEEETNIISSIVPSTQDIYQRQNSSDVHKSLLPAVDETTCGHTHFQQMIDKYINEANLIPEKTDLQELEHIFPNLHHQLFKPLEPHPDFDLSSSSSGISPDNRDFYQRSDSSSESHCATGLSKSTVYFTALRRTSMHSSLNTSPNQQPDTNLAHVGAHSFATENIIGGSEQCFEQLQPEYSSQEESQHADLPSIFSIEARDSSQGMKNQNYPSEEHTEILQNKKKIVHFQLSIGNLSSVYSSSDEANVFDQLNVQHSTPCGSNSSECSTKHQLESRKESMGFEELSKRGVVTMLQSQGLIEDNKNETCRVLDINPQVEETDSRLCVRTVEMGTSIQAPYSLTTQNEKYFENSAETDIPKITKKLSQLGESELFASSGSFSLQSSIPVWETETGHGIMEEPELTLISTTDTSIAEMDFANLTLEEKSENEAKCFFQVSEFLPLVSATEASDYPAVSELSIEKPRTASTETPRRLTPVPGSLQEAFIKRKKSFMERSHQRQKEIRNKIHVSENSQIKTVKEKPSISSSVSRLKGVNKVRASFPEDRKTTQALRHQRGLRLYNQLAEVKQQKEEKTKQEAYAQNRARAKEFHKKTLEKLRAKNTC |
| 4564 | sp|P93324|CHOMT\_MEDSA | MGNSYITKEDNQISATSEQTEDSACLSAMVLTTNLVYPAVLNAAIDLNLFEIIAKATPPGAFMSPSEIASKLPASTQHSDLPNRLDRMLRLLASYSVLTSTTRTIEDGGAERVYGLSMVGKYLVPDESRGYLASFTTFLCYPALLQVWMNFKEAVVDEDIDLFKNVHGVTKYEFMGKDKKMNQIFNKSMVDVCATEMKRMLEIYTGFEGISTLVDVGGGSGRNLELIISKYPLIKGINFDLPQVIENAPPLSGIEHVGGDMFASVPQGDAMILKAVCHNWSDEKCIEFLSNCHKALSPNGKVIIVEFILPEEPNTSEESKLVSTLDNLMFITVGGRERTEKQYEKLSKLSGFSKFQVACRAFNSLGVMEFYK |
| 4565 | sp|Q5ANA3|CDR1\_CANAL | MSDSKMSSQDESKLEKAISQDSSSENHSINEYHGFDAHTSENIQNLARTFTHDSFKDDSSAGLLKYLTHMSEVPGVNPYEHEEINNDQLNPDSENFNAKFWVKNLRKLFESDPEYYKPSKLGIGYRNLRAYGVANDSDYQPTVTNALWKLATEGFRHFQKDDDSRYFDILKSMDAIMRPGELTVVLGRPGAGCSTLLKTIAVNTYGFHIGKESQITYDGLSPHDIERHYRGDVIYSAETDVHFPHLSVGDTLEFAARLRTPQNRGEGIDRETYAKHMASVYMATYGLSHTRNTNVGNDFVRGVSGGERKRVSIAEASLSGANIQCWDNATRGLDSATALEFIRALKTSAVILDTTPLIAIYQCSQDAYDLFDKVVVLYEGYQIFFGKATKAKEYFEKMGWKCPQRQTTADFLTSLTNPAEREPLPGYEDKVPRTAQEFETYWKNSPEYAELTKEIDEYFVECERSNTRETYRESHVAKQSNNTRPASPYTVSFFMQVRYGVARNFLRMKGDPSIPIFSVFGQLVMGLILSSVFYNLSQTTGSFYYRGAAMFFAVLFNAFSSLLEIMSLFEARPIVEKHKKYALYRPSADALASIISELPVKLAMSMSFNFVFYFMVNFRRNPGRFFFYWLMCIWCTFVMSHLFRSIGAVSTSISGAMTPATVLLLAMVIYTGFVIPTPSMLGWSRWINYINPVGYVFESLMVNEFHGREFQCAQYVPSGPGYENISRSNQVCTAVGSVPGNEMVSGTNYLAGAYQYYNSHKWRNLGITIGFAVFFLAIYIALTEFNKGAMQKGEIVLFLKGSLKKHKRKTAASNKGDIEAGPVAGKLDYQDEAEAVNNEKFTEKGSTGSVDFPENREIFFWRDLTYQVKIKKEDRVILDHVDGWVKPGQITALMGASGAGKTTLLNCLSERVTTGIITDGERLVNGHALDSSFQRSIGYVQQQDVHLETTTVREALQFSAYLRQSNKISKKEKDDYVDYVIDLLEMTDYADALVGVAGEGLNVEQRKRLTIGVELVAKPKLLLFLDEPTSGLDSQTAWSICKLMRKLADHGQAILCTIHQPSALIMAEFDRLLFLQKGGRTAYFGELGENCQTMINYFEKYGADPCPKEANPAEWMLQVVGAAPGSHAKQDYFEVWRNSSEYQAVREEINRMEAELSKLPRDNDPEALLKYAAPLWKQYLLVSWRTIVQDWRSPGYIYSKIFLVVSAALFNGFSFFKAKNNMQGLQNQMFSVFMFFIPFNTLVQQMLPYFVKQRDVYEVREAPSRTFSWFAFIAGQITSEIPYQVAVGTIAFFCWYYPLGLYNNATPTDSVNPRGVLMWMLVTAFYVYTATMGQLCMSFSELADNAANLATLLFTMCLNFCGVLAGPDVLPGFWIFMYRCNPFTYLVQAMLSTGLANTFVKCAEREYVSVKPPNGESCSTYLDPYIKFAGGYFETRNDGSCAFCQMSSTNTFLKSVNSLYSERWRNFGIFIAFIAINIILTVIFYWLARVPKGNREKKNKK |
| 4566 | sp|Q62623|CDC20\_RAT | MAQFVFESDLHSLLQLDAPIPNAPIARWQRKAKEATGPAPSPMRAANRSHSAGRTPGRTPGKSNSKVQTTPSKPGGDRYIPQRSASQMEVASFLLSKENQPEDGGTPTKKEHQKAWARNLNGFDVEEAKILRLSGKPQNAPEGYQNRLKVLYSQKATPGSSRKACRYIPSLPDRILDAPEIRNDYYLNLVDWSSGNVLAVALDNSVYLWNAGSGDILQLLQMEQPGDYISSVAWIKEGNYLAVGTSNAEVQLWDVQQQKRLRNMTSHSARVSSLSWNSYILSSGSRSGHIHHHDVRVAEHHVATLSGHSQEVCGLRWAPDGRHLASGGNDNIVNVWPSGPGESGWVPLQTFTQHQGAVKAVAWCPWQSNILATGGGTSDRHIRIWNVCSGACLSAVDVHSQVCSILWSPHYKELISGHGFAQNQLVIWKYPTMAKVAELKGHTARVLSLTMSPDGATVASAAADETLRLWRCFELDPALRREREKASTSKSSLIHQGIR |
| 4567 | sp|P34624|CCNY\_CAEEL | MGNSSCCLRTRSSSGEDKSYNNDGQYIRTNQVEFQYVNQVFPRDETSTNFLPHISEREVTEGYEEDPSTNPTARPTFMERSKSEMKLKDNRRSCYMLDALAAGGHHPGILPRSLRKSSSCSTIYIDDSTVSQPHLKNTIKCISLAIYYHISNRKNRGHERLMEIFEERLHPIFRDPIPPEQMTRDPDHRNIYRFVRNLFSSAQLTAECAIITLVYIERLLNYAEMDLCPSNWRRVVLGSIMLASKVWDDQAVWNVDYCQILRDTNVDDMNELERRFLECLDFNIEVPSSVYAKYYFDLRTLALANDLQLPIQPLYKERAQRLEALSRVFEDKIQSSSLPKRARSAEHLVFEHPAVLS |
| 4568 | sp|P26801|CEBPG\_RAT | MSKLSQPASTAGVNGISVIHTQAHASGLQQVPQLVPAGPGGGGKAVPPSKQSKKSSPMDRNSDEYRQRRERNNMAVKKSRLKSKQKAQDTLQRVNQLKEENERLEAKIKLLTKELSVLKDLFLEHAHNLADNVQPISTETTVANSDNTGQ |
| 4569 | sp|O55193|CCR2\_RAT | MEDSNMLPQFIHGILSTSHSLFPRSIQELDEGATTPYDYDDGEPCHKTSVKQIGAWILPPLYSLVFIFGFVGNMLVIIILISCKKLKSMTDIYLFNLAISDLLFLLTLPFWAHYAANEWVFGNIMCKLFTGLYHIGYFGGIFFIILLTIDRYLAIVHAVFALKARTVTFGVITSVVTWVVAVFASLPGIIFTKSEQEDDQHTCGPYFPTIWKNFQTIMRNILSLILPLLVMVICYSGILHTLFRCRNEKKRHRAVRLIFAIMIVYFLFWTPYNIVLFLTTFQEFLGMSNCVVDMHLDQAMQVTETLGMTHCCVNPIIYAFVGEKFRRYLSIFFRKHIAKNLCKQCPVFYRETADRVSSTFTPSTGEQEVSVGL |
| 4570 | sp|Q9R1E9|CCN2\_RAT | MLASVAGPVSLALVLLLCTRPATGQDCSAQCQCAAEAAPRCPAGVSLVLDGCGCCRVCAKQLGELCTERDPCDPHKGLFCDFGSPANRKIGVCTAKDGAPCVFGGSVYRSGESFQSSCKYQCTCLDGAVGCVPLCSMDVRLPSPDCPFPRRVKLPGKCCEEWVCDEPKDRTVVGPALAAYRLEDTFGPDPTMMRANCLVQTTEWSACSKTCGMGISTRVTNDNTFCRLEKQSRLCMVRPCEADLEENIKKGKKCIRTPKIAKPVKFELSGCTSVKTYRAKFCGVCTDGRCCTPHRTTTLPVEFKCPDGEIMKKNMMFIKTCACHYNCPGDNDIFESLYYRKMYGDMA |
| 4571 | sp|Q40235|CF9\_SOLPI | MDCVKLVFLMLYTFLCQLALSSSLPHLCPEDQALSLLQFKNMFTINPNASDYCYDIRTYVDIQSYPRTLSWNKSTSCCSWDGVHCDETTGQVIALDLRCSQLQGKFHSNSSLFQLSNLKRLDLSFNNFTGSLISPKFGEFSNLTHLDLSHSSFTGLIPSEICHLSKLHVLRICDQYGLSLVPYNFELLLKNLTQLRELNLESVNISSTIPSNFSSHLTTLQLSGTELHGILPERVFHLSNLQSLHLSVNPQLTVRFPTTKWNSSASLMTLYVDSVNIADRIPKSFSHLTSLHELYMGRCNLSGPIPKPLWNLTNIVFLHLGDNHLEGPISHFTIFEKLKRLSLVNNNFDGGLEFLSFNTQLERLDLSSNSLTGPIPSNISGLQNLECLYLSSNHLNGSIPSWIFSLPSLVELDLSNNTFSGKIQEFKSKTLSAVTLKQNKLKGRIPNSLLNQKNLQLLLLSHNNISGHISSAICNLKTLILLDLGSNNLEGTIPQCVVERNEYLSHLDLSKNRLSGTINTTFSVGNILRVISLHGNKLTGKVPRSMINCKYLTLLDLGNNMLNDTFPNWLGYLFQLKILSLRSNKLHGPIKSSGNTNLFMGLQILDLSSNGFSGNLPERILGNLQTMKEIDESTGFPEYISDPYDIYYNYLTTISTKGQDYDSVRILDSNMIINLSKNRFEGHIPSIIGDLVGLRTLNLSHNVLEGHIPASFQNLSVLESLDLSSNKISGEIPQQLASLTFLEVLNLSHNHLVGCIPKGKQFDSFGNTSYQGNDGLRGFPLSKLCGGEDQVTTPAELDQEEEEEDSPMISWQGVLVGYGCGLVIGLSVIYIMWSTQYPAWFSRMDLKLEHIITTKMKKHKKRY |
| 4572 | sp|P24033|CDK1B\_XENLA | MDEYTKIEKIGEGTYGVVYKGRHKATGQVVAMKKIRLENEEEGVPSTAIREISLLKELQHPNIVCLLDVLMQDSRLYLIFEFLSMDLKKYLDSIPSGQYIDTMLVKSYLYQILQGIVFCHSRRVLHRDLKPQNLLIDNKGVIKLADFGLARAFGIPVRVYTHEVVTLWYRASEVLLGSVRYSTPVDVWSVGTIFAEIATKKPLFHGDSEIDQLFRIFRSLGTPNNEVWPEVESLQDYKNTFPKWKGGSLSSNVKNIDEDGLDLLSKMLVYDPAKRISARKAMLHPYFDDLDKSSLPANQIRN |
| 4573 | sp|Q3U962|CO5A2\_MOUSE | MMANWVGARPLLILSVLLGYCVSIKAQEQENDEYDEEIACTQHGQMYLNRDIWKPSPCQICVCDNGAILCDKIECPEVLNCANPITPTGECCPVCPQTGGGDTSFGRGRKGQKGEPGLVPVVTGIRGRPGPAGPPGSQGPRGDRGPKGRPGPRGPQGIDGEPGVPGQPGAPGPPGHPSHPGPDGMSRPFSAQMAGLDEKSGLGSQVGLMPGSVGPVGPRGPQGLQGQQGGVGPAGPPGEPGEPGPMGPIGSRGPEGPPGKPGEDGEPGRNGNTGEVGFSGSPGARGFPGAPGLPGLKGHRGHKGLEGPKGEIGAPGAKGEAGPTGPMGAMGPLGPRGMPGERGRLGPQGAPGKRGAHGMPGKPGPMGPLGIPGSSGFPGNPGMKGEAGPTGARGPEGPQGQRGETGPPGPAGSQGLPGAVGTDGTPGAKGPTGSAGTSGPPGLAGPPGSPGPQGSTGPQGIRGQSGDPGVPGFKGEAGPKGEPGPHGIQGPIGPPGEEGKRGPRGDPGTVGPPGPMGERGAPGNRGFPGSDGLPGPKGAQGERGPVGSSGPKGGQGDPGRPGEPGLPGARGLTGNPGVQGPEGKLGPLGAPGEDGRPGPPGSIGIRGQPGSMGLPGPKGSSGDLGKPGEAGNAGVPGQRGAPGKDGEVGPSGPVGPPGLAGERGEQGPPGPTGFQGLPGPPGPPGEGGKAGDQGVPGEPGAVGPLGPRGERGNPGERGEPGITGLPGEKGMAGGHGPDGPKGNPGPTGTIGDTGPPGLQGMPGERGIAGTPGPKGDRGGIGEKGAEGTAGNDGARGLPGPLGPPGPAGPTGEKGEPGPRGLVGPPGSRGNPGSRGENGPTGAVGFAGPQGPDGQPGVKGEPGEPGQKGDAGSPGPQGLAGSPGPHGPHGVPGLKGGRGTQGPPGATGFPGSAGRVGPPGPAGAPGPAGPAGEPGKEGPPGLRGDPGSHGRVGDRGPAGPPGSPGDKGDPGEDGQPGPDGPPGPAGTTGQRGIVGMPGQRGERGMPGLPGPAGTPGKVGPTGATGDKGPPGPVGPPGSNGPVGEPGPEGPAGNDGTPGRDGAVGERGDRGDPGPAGLPGSQGAPGTPGPVGAPGDAGQRGEPGSRGPVGPPGRAGKRGLPGPQGPRGDKGDNGDRGDRGQKGHRGFTGLQGLPGPPGPNGEQGSAGIPGPFGPRGPPGPVGPSGKEGNPGPLGPIGPPGVRGSVGEAGPEGPPGEPGPPGPPGPPGHLTAALGDIMGHYDENMPDPLPEFTEDQAAPDDTNKTDPGIHVTLKSLSSQIETMRSPDGSKKHPARTCDDLKLCHPTKQSGEYWIDPNQGSAEDAIKVYCNMETGETCISANPASVPRKTWWASKSPDNKPVWYGLDMNRGSQFTYGDYQSPNTAITQMTFLRLLSKEASQNLTYICRNTVGYMDDQAKNLKKAVVLKGSNDLEIKGEGNIRFRYTVLQDTCSKRNGNVGKTIFEYRTQNVARLPIIDVGPVDIGNADQEFGLDIGPVCFM |
| 4574 | sp|Q96CD2|COAC\_HUMAN | MEPKASCPAAAPLMERKFHVLVGVTGSVAALKLPLLVSKLLDIPGLEVAVVTTERAKHFYSPQDIPVTLYSDADEWEIWKSRSDPVLHIDLRRWADLLLVAPLDANTLGKVASGICDNLLTCVMRAWDRSKPLLFCPAMNTAMWEHPITAQQVDQLKAFGYVEIPCVAKKLVCGDEGLGAMAEVGTIVDKVKEVLFQHSGFQQS |
| 4575 | sp|P08081|CLCA\_RAT | MAELDPFGAPAGAPGGPALGNGVAGAGEEDPAAAFLAQQESEIAGIENDEAFAILDGGAPGPQAHGEPPGGPDAVDGVMNGEYYQESNGPTDSYAAISEVDRLQSEPESIRKWREEQTERLEALDANSRKQEAEWKEKAVKELEEWYARQDEQLQKTKASNRVADEAFYKQPFADVIGYVTNINHPCYSLEQAAEEAFVNDIDESSPGTEWERVARLCDFNPKSSKQAKDVSRMRSVLISLKQAPLVH |
| 4576 | sp|Q9QZM3|CLCF1\_MOUSE | MDLRAGDSWGMLACLCTVLWHLPAVPALNRTGDPGPGPSIQKTYDLTRYLEHQLRSLAGTYLNYLGPPFNEPDFNPPRLGAETLPRATVNLEVWRSLNDRLRLTQNYEAYSHLLCYLRGLNRQAATAELRRSLAHFCTSLQGLLGSIAGVMATLGYPLPQPLPGTEPAWAPGPAHSDFLQKMDDFWLLKELQTWLWRSAKDFNRLKKKMQPPAASVTLHLEAHGF |
| 4577 | sp|Q7L3B6|CD37L\_HUMAN | MEQPWPPPGPWSLPRAEGEAEEESDFDVFPSSPRCPQLPGGGAQMYSHGIELACQKQKEFVKSSVACKWNLAEAQQKLGSLALHNSESLDQEHAKAQTAVSELRQREEEWRQKEEALVQREKMCLWSTDAISKDVFNKSFINQDKRKDTEDEDKSESFMQKYEQKIRHFGMLSRWDDSQRFLSDHPYLVCEETAKYLILWCFHLEAEKKGALMEQIAHQAVVMQFIMEMAKNCNVDPRGCFRLFFQKAKAEEEGYFEAFKNELEAFKSRVRLYSQSQSFQPMTVQNHVPHSGVGSIGLLESLPQNPDYLQYSISTALCSLNSVVHKEDDEPKMMDTV |
| 4578 | sp|A3QM97|CNNM1\_CAEEL | MSASCLRLLTLSLFILGQCNVTAAQNGVDDEVTTVTAILDSATTAAADNSTVPTQSASNNNTSQSSKIPTIFGMRVELPADDPFGYDKHGVCSVTPEEEFKVVIYGNHLDKIHQIIWTFTNNCSEPAYVIDALNHFKVHFNHKATFHLTLKLLPEMVHAYKMCVKPKVAPGSPPLGEIYPLDDISTWLTTERPPKEYFLPLPLQIACIGFLLCLSALFSGLTLGLMSLTPQELELVIKSGAIKEQKCAAKILPVRKKGNLLLCSLLLGNVIVNSAISILMGELTTGIYALIGSTMGIVIFGEILPQSICVKKGLEVGAHTISITQLFIFLTFPIAWPVSKLLDCLLGDEYQAYDRKRLMELIKMSITDNGQVSNELKIAVGAMEIADKVVKDVMTKIEDVFMLPDTTVLNAKTVMEIVKMGYTRIPVYQYGDKNNVTDMLFVKDLALLDPDDNFTVKTVCGYHKHPVKFVMNDTPLPNLLEAFKKGEGHLAMVKRLINTDDKHDPSYVLVGVVTLEDIVEEILQAEINDEFDIVSDNVNKVKIKKEQNRDATKYFGDHEAPQTMISMQLQMVALQWLVSNERGFRQEFLDTNVLERLIRSSARRVDVSALMAMGDDAINVPRLAKVYTKDELSDKYILILEGRIQVTIGASGMMFEAGPWHHFGGEIMAKLVDGAATLGRSMSIVGTSELSARRPDLMFKPDYSAVVKEDCTYLEISVSAYINAYKASLMQRERPLNDLSDVSHNSSAHNSNLSLVEKPGPITDPSAMLVPENVRKPSVVSMDSPKILVGLGQHPVAPVAEEEEMALLDQP |
| 4579 | sp|P16330|CN37\_MOUSE | MNTSFTRKSHTFLPKLFFRKMSSSGAKEKPELQFPFLQDEDTVATLHECKTLFILRGLPGSGKSTLARLILEKYHDGTKMVSADAYKIIPGSRADFSEAYKRLDEDLAGYCRRDIRVLVLDDTNHERERLDQLFEMADQYQYQVVLVEPKTAWRLDCAQLKEKNQWQLSADDLKKLKPGLEKDFLPLYFGWFLTKKSSETLRKAGQVFLEELGNHKAFKKELRHFISGDEPKEKLELVSYFGKRPPGVLHCTTKFCDYGKAAGAEEYAQQEVVKRSYGKAFKLSISALFVTPKTAGAQVVLTDQELQLWPSDLDKPSASEGLPPGSRAHVTLGCAADVQPVQTGLDLLDILQQVKGGSQGEAVGELPRGKLYSLGKGRWMLSLTKKMEVKAIFTGYYGKGKPVPIHGSRKGGAMQICTII |
| 4580 | sp|Q96KN2|CNDP1\_HUMAN | MDPKLGRMAASLLAVLLLLLERGMFSSPSPPPALLEKVFQYIDLHQDEFVQTLKEWVAIESDSVQPVPRFRQELFRMMAVAADTLQRLGARVASVDMGPQQLPDGQSLPIPPIILAELGSDPTKGTVCFYGHLDVQPADRGDGWLTDPYVLTEVDGKLYGRGATDNKGPVLAWINAVSAFRALEQDLPVNIKFIIEGMEEAGSVALEELVEKEKDRFFSGVDYIVISDNLWISQRKPAITYGTRGNSYFMVEVKCRDQDFHSGTFGGILHEPMADLVALLGSLVDSSGHILVPGIYDEVVPLTEEEINTYKAIHLDLEEYRNSSRVEKFLFDTKEEILMHLWRYPSLSIHGIEGAFDEPGTKTVIPGRVIGKFSIRLVPHMNVSAVEKQVTRHLEDVFSKRNSSNKMVVSMTLGLHPWIANIDDTQYLAAKRAIRTVFGTEPDMIRDGSTIPIAKMFQEIVHKSVVLIPLGAVDDGEHSQNEKINRWNYIEGTKLFAAFFLEMAQLH |
| 4581 | sp|P42695|CNDD3\_HUMAN | MVALRGLGSGLQPWCPLDLRLEWVDTVWELDFTETEPLDPSIEAEIIETGLAAFTKLYESLLPFATGEHGSMESIWTFFIENNVSHSTLVALFYHFVQIVHKKNVSVQYREYGLHAAGLYFLLLEVPGSVANQVFHPVMFDKCIQTLKKSWPQESNLNRKRKKEQPKSSQANPGRHRKRGKPPRREDIEMDEIIEEQEDENICFSARDLSQIRNAIFHLLKNFLRLLPKFSLKEKPQCVQNCIEVFVSLTNFEPVLHECHVTQARALNQAKYIPELAYYGLYLLCSPIHGEGDKVISCVFHQMLSVILMLEVGEGSHRAPLAVTSQVINCRNQAVQFISALVDELKESIFPVVRILLQHICAKVVDKSEYRTFAAQSLVQLLSKLPCGEYAMFIAWLYKYSRSSKIPHRVFTLDVVLALLELPEREVDNTLSLEHQKFLKHKFLVQEIMFDRCLDKAPTVRSKALSSFAHCLELTVTSASESILELLINSPTFSVIESHPGTLLRNSSAFSYQRQTSNRSEPSGEINIDSSGETVGSGERCVMAMLRRRIRDEKTNVRKSALQVLVSILKHCDVSGMKEDLWILQDQCRDPAVSVRKQALQSLTELLMAQPRCVQIQKAWLRGVVPVVMDCESTVQEKALEFLDQLLLQNIRHHSHFHSGDDSQVLAWALLTLLTTESQELSRYLNKAFHIWSKKEKFSPTFINNVISHTGTEHSAPAWMLLSKIAGSSPRLDYSRIIQSWEKISSQQNPNSNTLGHILCVIGHIAKHLPKSTRDKVTDAVKCKLNGFQWSLEVISSAVDALQRLCRASAETPAEEQELLTQVCGDVLSTCEHRLSNIVLKENGTGNMDEDLLVKYIFTLGDIAQLCPARVEKRIFLLIQSVLASSADADHSPSSQGSSEAPASQPPPQVRGSVMPSVIRAHAIITLGKLCLQHEDLAKKSIPALVRELEVCEDVAVRNNVIIVMCDLCIRYTIMVDKYIPNISMCLKDSDPFIRKQTLILLTNLLQEEFVKWKGSLFFRFVSTLIDSHPDIASFGEFCLAHLLLKRNPVMFFQHFIECIFHFNNYEKHEKYNKFPQSEREKRLFSLKGKSNKERRMKIYKFLLEHFTDEQRFNITSKICLSILACFADGILPLDLDASELLSDTFEVLSSKEIKLLAMRSKPDKDLLMEEDDMALANVVMQEAQKKLISQVQKRNFIENIIPIIISLKTVLEKNKIPALRELMHYLREVMQDYRDELKDFFAVDKQLASELEYDMKKYQEQLVQEQELAKHADVAGTAGGAEVAPVAQVALCLETVPVPAGQENPAMSPAVSQPCTPRASAGHVAVSSPTPETGPLQRLLPKARPMSLSTIAILNSVKKAVESKSRHRSRSLGVLPFTLNSGSPEKTCSQVSSYSLEQESNGEIEHVTKRAISTPEKSISDVTFGAGVSYIGTPRTPSSAKEKIEGRSQGNDILCLSLPDKPPPQPQQWNVRSPARNKDTPACSRRSLRKTPLKTAN |
| 4582 | sp|Q9ULY5|CLC4E\_HUMAN | MNSSKSSETQCTERGCFSSQMFLWTVAGIPILFLSACFITRCVVTFRIFQTCDEKKFQLPENFTELSCYNYGSGSVKNCCPLNWEYFQSSCYFFSTDTISWALSLKNCSAMGAHLVVINSQEEQEFLSYKKPKMREFFIGLSDQVVEGQWQWVDGTPLTKSLSFWDVGEPNNIATLEDCATMRDSSNPRQNWNDVTCFLNYFRICEMVGINPLNKGKSL |
| 4583 | sp|P07668|CLAT\_DROME | MASNEASTSAAGSGPESAALFSKLRSFSIGSGPNSPQRVVSNLRGFLTHRLSNITPSDTGWKDSILSIPKKWLSTAESVDEFGFPDTLPKVPVPALDETMADYIRALEPITTPAQLERTKELIRQFSAPQGIGARLHQYLLDKREAEDNWAYYYWLNEMYMDIRIPLPINSNPGMVFPPRRFKTVHDVAHFAARLLDGILSHREMLDSGELPLERAASREKNQPLCMAQYYRLLGSCRRPGVKQDSQFLPSRERLNDEDRHVVVICRNQMYCVVLQASDRGKLSESEIASQILYVLSDAPCLPAKPVPVGLLTAEPRSTWARDREMLQEDERNQRNLELIETAQVVLCLDEPLAGNFNARGFTGATPTVHRAGDRDETNMAHEMIHGGGSEYNSGNRWFDKTMQLIICTDGTWGLCYEHSCSEGIAVVQLLEKIYKKIEEHPDEDNGLPQHHLPPPERLEWHVGPQLQLRFAQASKSVDKCIDDLDFYVYRYQSYGKTFIKSCQVSPDVYIQLALQLAHYKLYGRLVATYESASTRRFLHGRVDCIRAASTEALEWAKAMCQGEGANVPLESDREDEEESRKVKFSIYSKDHLRELFRCAVARQTEVMVKNILGNGIDIPLLGLREASIEVTGEMHELFKDESYIISQCFLLSTSQVACSTDSFMGYGPVTPRGYGCSYNPHPEQIVFCVSAFYSCEDTSASRYAKSLQDSLDIMRDLLQN |
| 4584 | sp|Q8BRT1|CLAP2\_MOUSE | MRRLICKRICDYKSFDDEESVDGNRPSSAASAFKVPAPKTPGNPVSSARKPGSAGGPKVGGPSKEGGAGAVDEDDFIKAFTDVPSVQIYSSRELEETLNKIREILSDDKHDWDQRANALKKIRSLLVAGAAQYDCFFQHLRLLDGALKLSAKDLRSQVVREACITVAHLSTVLGNKFDHGAEAIVPTLFNLVPNSAKVMATSGCAAIRFIIRHTHVPRLIPLITSNCTSKSVPVRRRSFEFLDLLLQEWQTHSLERHAAVLVETIKKGIHDADAEARVEARKTYMGLRNHFPGEAETLYNSLEPSYQKSLQTYLKSSGSVASLPQSDRSSSSSQESLNRPFSSKWSTANPSTVAGRVSVGGSKANPLPGSLQRSRSDIDVNAAAGAKAHHAAGQAVRSGRLGAGALNPGSYASLEDTSDKMDGTASDDGRVRAKLSTPLVAVGNAKTDSRGRSRTKMVSQSQPGSRSGSPGRVLTTTALSTVSSGAQRVLVNSASAQKRSKIPRSQGCSREASPSRLSVARSSRIPRPSVSQGCSREASRESSRDTSPVRSFQPLGPGYGISQSSRLSSSVSAMRVLNTGSDVEEAVADALLLGDIRTKKKPARRRYESYGMHSDDDANSDASSACSERSYSSRNGSIPTYMRQTEDVAEVLNRCASSNWSERKEGLLGLQNLLKNQRTLSRIELKRLCEIFTRMFADPHGKVFSMFLETLVDFIQVHKDDLQDWLFVLLTQLLKKMGADLLGSVQAKVQKALDITRESFPNDLQFNILMRFTVDQTQTPSLKVKVAILKYIETLAKQMDPRDFTNSSETRLAVSRVITWTTEPKSSDVRKAAQSVLISLFELNTPEFTMLLGALPKTFQDGATKLLHNHLRNTGNGTQSSMGSPLTRPTPRSPANWSSPLTSPTNTSQNTLSPSAFDYDTENMNSEDIYSSLRGVTEAIQNFSFRSQEDMSEPVRRDPKKEDGDTICSGPGMSDPRAGGDAADGSQPALDNKASLLHSMPLHSSPRSRDYNPYNYSDSISPFNKSALKEAMFDDDADQFPDDLSLDHSDLVAELLKELSNHNERIEERKIALYELMKLTQEESFSVWDEHFKTILLLLLETLGDKEPTIRALALKVLKEILRHQPARFKNYAELTVMKTLEAHKDPHKEVVRSAEEAASVLATSISPEQCIKVLCPIIQTADYPINLAAIKMQTKVIERVSKETLNMLLPEIMPGLIQGYDNSESSVRKACVFCLVAVHAVIGDELKPHLSQLTGSKMKLLNLYIKRAQTGSAGADPTADVSGQS |
| 4585 | sp|P47936|CNR2\_MOUSE | MEGCRETEVTNGSNGGLEFNPMKEYMILSSGQQIAVAVLCTLMGLLSALENMAVLYIILSSRRLRRKPSYLFISSLAGADFLASVIFACNFVIFHVFHGVDSNAIFLLKIGSVTMTFTASVGSLLLTAVDRYLCLCYPPTYKALVTRGRALVALCVMWVLSALISYLPLMGWTCCPSPCSELFPLIPNDYLLGWLLFIAILFSGIIYTYGYVLWKAHRHVATLAEHQDRQVPGIARMRLDVRLAKTLGLVLAVLLICWFPALALMGHSLVTTLSDQVKEAFAFCSMLCLVNSMVNPIIYALRSGEIRSAAQHCLIGWKKYLQGLGPEGKEEGPRSSVTETEADVKTT |
| 4586 | sp|O75503|CLN5\_HUMAN | MAQEVDTAQGAEMRRGAGAARGRASWCWALALLWLAVVPGWSRVSGIPSRRHWPVPYKRFDFRPKPDPYCQAKYTFCPTGSPIPVMEGDDDIEVFRLQAPVWEFKYGDLLGHLKIMHDAIGFRSTLTGKNYTMEWYELFQLGNCTFPHLRPEMDAPFWCNQGAACFFEGIDDVHWKENGTLVQVATISGNMFNQMAKWVKQDNETGIYYETWNVKASPEKGAETWFDSYDCSKFVLRTFNKLAEFGAEFKNIETNYTRIFLYSGEPTYLGNETSVFGPTGNKTLGLAIKRFYYPFKPHLPTKEFLLSLLQIFDAVIVHKQFYLFYNFEYWFLPMKFPFIKITYEEIPLPIRNKTLSGL |
| 4587 | sp|Q92989|CLP1\_HUMAN | MGEEANDDKKPTTKFELERETELRFEVEASQSVQLELLTGMAEIFGTELTRNKKFTFDAGAKVAVFTWHGCSVQLSGRTEVAYVSKDTPMLLYLNTHTALEQMRRQAEKEEERGPRVMVVGPTDVGKSTVCRLLLNYAVRLGRRPTYVELDVGQGSVSIPGTMGALYIERPADVEEGFSIQAPLVYHFGSTTPGTNIKLYNKITSRLADVFNQRCEVNRRASVSGCVINTCGWVKGSGYQALVHAASAFEVDVVVVLDQERLYNELKRDLPHFVRTVLLPKSGGVVERSKDFRRECRDERIREYFYGFRGCFYPHAFNVKFSDVKIYKVGAPTIPDSCLPLGMSQEDNQLKLVPVTPGRDMVHHLLSVSTAEGTEENLSETSVAGFIVVTSVDLEHQVFTVLSPAPRPLPKNFLLIMDIRFMDLK |
| 4588 | sp|O75390|CISY\_HUMAN | MALLTAAARLLGTKNASCLVLAARHASASSTNLKDILADLIPKEQARIKTFRQQHGKTVVGQITVDMMYGGMRGMKGLVYETSVLDPDEGIRFRGFSIPECQKLLPKAKGGEEPLPEGLFWLLVTGHIPTEEQVSWLSKEWAKRAALPSHVVTMLDNFPTNLHPMSQLSAAVTALNSESNFARAYAQGISRTKYWELIYEDSMDLIAKLPCVAAKIYRNLYREGSGIGAIDSNLDWSHNFTNMLGYTDHQFTELTRLYLTIHSDHEGGNVSAHTSHLVGSALSDPYLSFAAAMNGLAGPLHGLANQEVLVWLTQLQKEVGKDVSDEKLRDYIWNTLNSGRVVPGYGHAVLRKTDPRYTCQREFALKHLPNDPMFKLVAQLYKIVPNVLLEQGKAKNPWPNVDAHSGVLLQYYGMTEMNYYTVLFGVSRALGVLAQLIWSRALGFPLERPKSMSTEGLMKFVDSKSG |
| 4589 | sp|Q22942|CKA2\_CAEEL | MSSRKVSRAHYDEDELASAANMSLVAEGHFRGMKELLSTMDLDTDANTIPELKERAHMLCARFLGGAWKTVPLEHLRISRIKGGMSNMLFLCRLSEVYPPIRNEPNKVLLRVYFNPETESHLVAESVIFTLLSERHLGPKLYGIFSGGRLEEYIPSRPLSCHEISLAHMSTKIAKRVAKVHQLEVPIWKEPDYLCEALQRWLKQLTGTVDAEHRFDLPEECGVSSVNCLDLARELEFLRAHISLSKSPVTFCHNDLQEGNILLPKASSGNIRMPSLSDETQALGNSLSAFNPADPRLVLIDFEYASYNYRAFDFANHFIEWTIDYDIDEAPFYKIQTENFPENDQMLEFFLNYLREQGNTRENELYKKSEDLVQETLPFVPVSHFFWGVWGLLQVELSPVGFGFADYGRDRLSLYFKHKQLLKNLASHQ |
| 4590 | sp|A1ZAB5|CLU\_DROME | MALETEAKNSNATATGDATATATKASGKAKENNNTAGGKKNLNPNSNQQNSNQNLVNGNGTAADGPAAKKKGKKNRNKSPTEPTTEAVLSNGHAEKPTVVDAVEDNADTNANVEKPQEGGAPDAEADGDDIDLDALQDIGITVNISSPGADLLCVQLSSMELVQEIHQLLMDREETCHRTCFSLQLDNVTLDNFAELKSINNLEQGSTIKVVEEPYTMREARIHVRHVRDLLKNLDPADAYNGIDCTSLTYLNTITQGDLLDKKRTRPDSVDCTPPEYVTPGVSDPPILPLHPNVKNAKGPQALKVLTTSAWNPPPGPRKLHGDLMYLYVVTMEDKRFHISACSKGFFINQSTDDTFNPKPDNPSHLSHSLIDLLSHISPSFRRAFQTIQKRRTMRHAFERVATPYQVYQWAAPILEHTVDAIRAEDAFSSKLGYEEHIPGQTRDWNEELQTTRELPRKTLPERLLRERAIFKVHGDFVTAATRGAMAVIDGNVLAINPGEDTKMQMFIWNNIFFSMGFDVRDHYKELGGDAAAFVAPRYDLHGVRVYNAVDIEGLYTLGTVVVDYRGYRVTAQSIIPGILEREQEQSVVYGSIDFGKTVLSHPKYLELLRQAGKHLKILPHVVLNERDEPVELCSSVECKGIIGNDGRHYILDLLRTFPPDVNFLKLQDVQLSKELVDMGFPIEHRHKLCCLRQELLEAFIEDRHVNFIRIAAARLQQLTTIKQSEKSEANPVPALEGAEAASKVNGAEKPDDKEKKNEEEEKKERSTSGEARAAAIVNAIREAQSNVATSNEVQAAEVVKRACAAVGSLKEKEFDFRFNPDVFSPGIRHADGEEGTSLAKQKVLVQEAAEFLVLKQIPAFIKEHMSHSSSPIDGQSLTESLHSHGINVRYLGKVIKILSQMPRMDYLHRIAVLELIVRATKHIYYTYMQNTEPLHLSAAISHFLNCLLTNGPVNPAVSSEEAHKKRGNGGKHNKHKSSKGGKGQQQQQTTGNQNGSSSGSSNSSSASDWTLMTPRSLWQQIRKEAKVYWDWELDCDSIETAVSKYGILRISLMRAFCLKVGIQVLLREYNFESKHKPTFGDDDIVNVFPIVKHISPRATDAYNFYTTGQAKIQQGLFKEGYELISGALNLLNNVFGALHQENGSCLRMLARLSYLLGDAQDALAIQQRAVIMSERVNGMDHPSTILEYTHLSLYSFANGHVGMSLKLLYRARYLMVLICGEDHPEVALIDSNISLILHALGEYELSLRFIEHALKLNLKYFGDKDMHVALSYHLMARTQSCMGDFRSALNNEKETYSFYKSQLGENHEKTRDSAECLRLLTQQAVLLQRKMNDIYSSGKLTSDLPPIHITPPSMGSVLDMLNTINGILFVKISRKDIVKVRSEIEKHFKTDSTENEVNDAINSIVAAANNNGEAEDAVSKDIKEQPEAGKQLTNGDKAAATEATSS |
| 4591 | sp|Q93Z18|CKL3\_ARATH | MERIIGGKYKLGRKIGGGSFGEIFLATHVDTFEIVAVKIENSKTKHPQLLYEAKLYRILEGGSGIPRIKWFGVDGTENALVMDLLGPSLEDLFVYCGRKFSPKTVLMLADQMLTRIEFVHSKGYLHRDIKPDNFLMGLGRKANQVYLIDFGLAKRYRDANTNRHIPYRENKNLTGTARYASCNTHLGIEQSRRDDLESLGYVLLYFLRGSLPWQGLKAVDKKQKYDKICEKKISTPIEVLCKNHPVEFASYFHYCHTLTFDQRPDYGFLKRLFRDLFSREGYEFDYIFDWTIIKYQQAQKSRNQSQAVPGSSNPRAMPVDTSNHRGGPNISYEAEASERVRSANAIGPSPQINNNTAAGRTPGFDHPVHKNMNMPSTSLSPAGTSKRNVGPETSNSGYGSGNRTGWTSSFMSPEK |
| 4592 | sp|P93831|CLF\_ARATH | MASEASPSSSATRSEPPKDSPAEERGPASKEVSEVIESLKKKLAADRCISIKKRIDENKKNLFAITQSFMRSSMERGGSCKDGSDLLVKRQRDSPGMKSGIDESNNNRYVEDGPASSGMVQGSSVPVKISLRPIKMPDIKRLSPYTTWVFLDRNQRMTEDQSVVGRRRIYYDQTGGEALICSDSEEEAIDDEEEKRDFLEPEDYIIRMTLEQLGLSDSVLAELASFLSRSTSEIKARHGVLMKEKEVSESGDNQAESSLLNKDMEGALDSFDNLFCRRCLVFDCRLHGCSQDLIFPAEKPAPWCPPVDENLTCGANCYKTLLKSGRFPGYGTIEGKTGTSSDGAGTKTTPTKFSSKLNGRKPKTFPSESASSNEKCALETSDSENGLQQDTNSDKVSSSPKVKGSGRRVGRKRNKNRVAERVPRKTQKRQKKTEASDSDSIASGSCSPSDAKHKDNEDATSSSQKHVKSGNSGKSRKNGTPAEVSNNSVKDDVPVCQSNEVASELDAPGSDESLRKEEFMGETVSRGRLATNKLWRPLEKSLFDKGVEIFGMNSCLIARNLLSGFKSCWEVFQYMTCSENKASFFGGDGLNPDGSSKFDINGNMVNNQVRRRSRFLRRRGKVRRLKYTWKSAAYHSIRKRITEKKDQPCRQFNPCNCKIACGKECPCLLNGTCCEKYCGCPKSCKNRFRGCHCAKSQCRSRQCPCFAADRECDPDVCRNCWVIGGDGSLGVPSQRGDNYECRNMKLLLKQQQRVLLGISDVSGWGAFLKNSVSKHEYLGEYTGELISHKEADKRGKIYDRENCSFLFNLNDQFVLDAYRKGDKLKFANHSPEPNCYAKVIMVAGDHRVGIFAKERILAGEELFYDYRYEPDRAPAWAKKPEAPGSKKDENVTPSVGRPKKLA |
| 4593 | sp|Q8BTW8|CK5P1\_MOUSE | MHPLRCVLQVQRLSAPFTSMCWVLLRTCRAQSSVSSTPCPSPEAKSSEAQKDFSSRLATGPTFQHFLRSASVPQEKPSSPEVEDPPPYLSGDELLGRQRKVYLETYGCQMNVNDTEIAWSILQKSGYLRTSNLQEADVILLVTCSIREKAEQTIWNRLHQLKVLKTKRPRSRVPLRIGILGCMAERLKGEILNREKMVDLLAGPDAYRDLPRLLAVVESGQQAANVLLSLDETYADIMPVQTSPSATSAFVSIMRGCDNMCSYCIVPFTRGRERSRPVASILDEVRKLSEQGLKEVTLLGQNVNSFRDNSEVQFNNAGSANLSRGFTTNYKPKQGGLRFSHLLDQVSRIDPEMRIRFTSPHPKDFPDEVLQLIRERHNICKQIHLPAQSGSSRVLDAMRRGYSREAYVALVHHVRETIPGVSLSSDFITGFCGETEDDHRQTVSLLREVQYNTGFLFAYSMRQKTRAYHRLKDDVPEEVKLRRLEELITVFREEASKANKTSVGCSQLVLVEGFSKRSTTDLCGRNDANLKVIFPDAEVEDITNPGLKVRAQPGDYVLVKITSASSQTLKGHILCRTTMKDSLTYCTT |
| 4594 | sp|Q9NZ45|CISD1\_HUMAN | MSLTSSSSVRVEWIAAVTIAAGTAAIGYLAYKRFYVKDHRNKAMINLHIQKDNPKIVHAFDMEDLGDKAVYCRCWRSKKFPFCDGAHTKHNEETGDNVGPLIIKKKET |
| 4595 | sp|F4IIM1|CSI1\_ARATH | MTSALGWRFPSTNGNGLAPSDTERNGDMKMHDSEPPTPHSTTKMSLRDRTTSMEDPDGTLASVAQCIEQLRQGSSSAQEREYCLKQLLDLIEMRENAFSAVGSHSQAVPVLVSLLRSGSVGVKIQAATVLGSLCKENELRVKVLLGGCIPPLLGLLKSSSVEGQIAAAKTIYAVSEGGVKDHVGSKIFSTEGVVPVLWDQLRSGNKKGEVDGLLTGALKNLSSTTEGFWSETIRAGGVDVLVKLLTSGQSSTLSNVCFLLACMMMEDASVCSSVLTADITKQLLKLLGSGNEAPVRAEAAAALKSLSAQSKEAKREIANSNGIPVLINATIAPSKEFMQGEYAQALQENAMCALANISGGLSYVISSLGQSLESCSSPAQTADTLGALASALMIYDGKAETTRASDPLVVEQTLLKQFKPRLPFLVQERTIEALASLYGNSILSVKLSNSDAKRLLVGLITMAVNEVQDELVKALLMLCNHEGSLWQALQGREGIQLLISLLGLSSEQQQECAVALLCLLSNENDESKWAITAAGGIPPLVQILETGSAKAREDSATILRNLCNHSEDIRACVESADAVPALLWLLKNGSPNGKEIAAKTLNHLIHKSDTATISQLTALLTSDLPESKIYVLDALKSMLSVVPFNDMLREGSASNDAIETMIKLMSSGKEETQANSASALAAIFQSRKDLRESALALKTLLSAIKLLNVDSERILVESCRCLAAILLSIKENRDVAISAREALPTIVSLANSSVLEVAEQGMCALANLILDSEVSEKVIVEDIILSATRILREGTVSGKTLAAAAIARLLSRRRIDSALTDSVNRAGTVLTLVSLLESADGRSDAISEALDALAIFSRSGANGNVKPAWAVLAESPNSMAPIVSSIVSVANPSLQDKAIEVLSRLCRDQPIVLGNMVNNARDCVSSIAKRVINTRDPKIKIGGAAIIICAAKVDDQKMIENLNETQLCAKFVQALVGILDSVQDQEKDEKDKICICIHPKEKEEDEEEEATENREGSTGATVISGDNLAIWLLSVLSCHDEKSRAVILESEGIELITDRIGNRFLQADNGEDANIWVCALLLAILFQDREITRAHATMKAVPVLSNLVKSEEYADRYFAAQALASLVCNGSRGTLLSVANSGAAAGFISLLGCSDDDIKELLQLSQEFTLVRYPDQVALERLFRVEDIRVGATSRKAIPLLVELLKPIPDRPGAPLLSLNLLTQLAGDCPQNMIVMVESGALEGLSKYLSLGPQDEQEEAATGLLGILFSSAEIRRHESAFGAVSQLVAVLRLGGRGARYSAAKALDSLFTADHIRNAESSRQAVQPLVEILNTGSEREQHAAIAALVRLLSDNPSRALAVADVEMNAVDVLCRILSSNYTMELKGDAAELCYVLFANTRIRSTVAAARCVEPLVSLLVTEFSPAQHSVVRALDKLVDDEQLAELVAAHGAVVPLVGLLYGKNYVLHEAISRALVKLGKDRPACKLEMVKAGVIDCVLDILHEAPDFLCAAFSELLRILTNNATIAKGQSAAKVVEPLFHLLTRLEFGADGQHSALQVLVNILEHPQCRADYTLTPHQVIEPLIPLLESPSPAVQQLAAELLSHLLYEEHLQKDPLTQLAIGPLIHVLGSGIHLLQQRAVKALVSIALTWPNEIAKEGGVSELSKVILQADPSLSNVLWESAASILVIILQFSSEFYLEVPVAVLVRLLRSASENTVVGALNALLVLESDDGTSAESMAESGAIEALLDLLRSHQCEDTAARLLEVLLNNVKIRDSKATKTAILPLSQYLLDPQTQAQQARLLATLALGDLFQNEALARSTDAASACRALVNVLEEQPTEEMKVVAICALQNLVMYSRSNKRAVAEAGGVQVVLDLISSSDPETSVQAAMFVKLLFSNHTVQEYASSETVRAITAAIEKDLWATGTVNDEYLKALNSLFNNFPRLRATEPATLSIPHLVTSLKTGSEATQEAALDALFLLRQAWSACPAEVSRAQSVAAADAIPLLQYLIQSGPPRFQEKAEFLLQCLPGTLVVTIKRGNNMKQSVGNPSVFCKITLGNNPPRQTKVISTGPNPEWDESFSWSFESPPKGQKLHISCKNKSKMGKSSFGKVTIQIDRVVMLGAVAGEYSLLPESKSGPRNLEIEFQWSNK |
| 4596 | sp|Q94JU3|CSN7\_ARATH | MDIEQKQAEIIDQLVKRASTCKSEALGPLIIEATSHPSLFAFSEILALPNVAQLEGTTDSVYLDLLRLFAHGTWGDYKCNATRLPHLSPDQILKLKQLTVLTLAESNKVLPYDTLMVELDVSNVRELEDFLINECMYAGIVRGKLDQLKRCFEVPFAAGRDLRPGQLGNMLHTLSNWLNTSENLLISIQDKIKWADNMSEMDKKHRKEAEEGVEEVKKSLSMKGDVDIRGNKEMFGEPSGVMDYEEDGIRPKRRRHPVTR |
| 4597 | sp|Q9U6B8|CRCM1\_DROME | MSVWTTANNSGLETPTKSPITSSVPRAARSSAVITTGNHQQHHFQHVVAAAVAAATSVATGHQFQQQFPLHAHPHPQHHSNSPTGSGSNSNNSAGFQRTSISNSLLQFPPPPPPSSQNQAKPRGHHRTASSSMSQSGEDLHSPTYLSWRKLQLSRAKLKASSKTSALLSGFAMVAMVEVQLDHDTNVPPGMLIAFAICTTLLVAVHMLALMISTCILPNIETVCNLHSISLVHESPHERLHWYIETAWAFSTLLGLILFLLEIAILCWVKFYDLSPPAAWSACVVLIPVMIIFMAFAIHFYRSLVSHKYEVTVSGIRELEMLKEQMEQDHLEHHNNIRNNGMNYGASGDIV |
| 4598 | sp|Q8C7D2|CRBN\_MOUSE | MAGEGDQQDAAHNMGNHLPLLPADSEDEDDEIEMEVEDQDSKEARKPNIINFDTSLPTSHTYLGADMEEFHGRTLHDDDSCQVIPVLPEVLMILIPGQTLPLQLSHPQEVSMVRNLIQKDRTFAVLAYSNVQEREAQFGTTAEIYAYREEQEFGIEVVKVKAIGRQRFKVLELRTQSDGIQQAKVQILPECVLPSTMSAVQLESLNKCQVFPSKPISWEDQYSCKWWQKYQKRKFHCANLTSWPRWLYSLYDAETLMDRIKKQLREWDENLKDDSLPENPIDFSYRVAACLPIDDVLRIQLLKIGSAIQRLRCELDIMNKCTSLCCKQCQETEITTKNEIFSLSLCGPMAAYVNPHGYVHETLTVYKASNLNLIGRPSTVHSWFPGYAWTIAQCKICASHIGWKFTATKKDMSPQKFWGLTRSALLPTIPETEDEISPDKVILCL |
| 4599 | sp|O75462|CRLF1\_HUMAN | MPAGRRGPAAQSARRPPPLLPLLLLLCVLGAPRAGSGAHTAVISPQDPTLLIGSSLLATCSVHGDPPGATAEGLYWTLNGRRLPPELSRVLNASTLALALANLNGSRQRSGDNLVCHARDGSILAGSCLYVGLPPEKPVNISCWSKNMKDLTCRWTPGAHGETFLHTNYSLKYKLRWYGQDNTCEEYHTVGPHSCHIPKDLALFTPYEIWVEATNRLGSARSDVLTLDILDVVTTDPPPDVHVSRVGGLEDQLSVRWVSPPALKDFLFQAKYQIRYRVEDSVDWKVVDDVSNQTSCRLAGLKPGTVYFVQVRCNPFGIYGSKKAGIWSEWSHPTAASTPRSERPGPGGGACEPRGGEPSSGPVRRELKQFLGWLKKHAYCSNLSFRLYDQWRAWMQKSHKTRNQDEGILPSGRRGTARGPAR |
| 4600 | sp|Q9FIU5|CRLK1\_ARATH | MEGESKGLIVGISLGLVIGVVLAISALFCFRYHRKKSQIVNSGSRRSATIPIRENGADSCNIMSDSTIGPDSPVKSSKNGRSVWLEGFSKRSNVISASGILEYSYRDLQKATCNFTTLIGQGAFGPVYKAQMSTGEIVAVKVLATDSKQGEKEFQTEVMLLGRLHHRNLVNLIGYCAEKGQHMLIYVYMSKGSLASHLYSEKHEPLSWDLRVYIALDVARGLEYLHDGAVPPVIHRDIKSSNILLDQSMRARVADFGLSREEMVDKHAANIRGTFGYLDPEYISTRTFTKKSDVYGFGVLLFELIAGRNPQQGLMELVELAAMNAEEKVGWEEIVDSRLDGRYDLQEVNEVAAFAYKCISRAPRKRPNMRDIVQVLTRVIKVRHCRKRQKNSPSPSPRLPPPPPIVEESEGELTANGSLRSEIHRRDNSLDSSIAEDVIL |
| 4601 | sp|Q8SQ19|CREB3\_BOVIN | MSHMELALDPGDHDLLGFLLEESGGLGAAPDEALTSPPDWELPLSESLSDWDVEDFLSCLPSPPAVLNVFSNSDPCLVQHDHTYSLSQEHVSIDLDNESYEKERAQMTPLRVEEPADQEIARLILTEEEKRLLEKEGLTLPGMLPLTKMEEQVLKRVRRKIRNKKSAQESRRKKKVYVGGLESRVLKYTAQNLELQNKVQLLEEQNLSLLDQLRRLQAMVIQTANKASSSSTCVLVLLFSFCLLLVPAMYSSDTRGSLPAEHRVLSRQLRALPSEDPPQLEPPALQSEVPKDSLNPELQAASNSCCLFHLMPQAPRAEPPLQLPLPDGFSGCSCPDSISPLHANLTREEGWLPTPSPTSVILQGRYSG |
| 4602 | sp|P08516|CP4AA\_RAT | MSVSALSSTRFTGSISGFLQVASVLGLLLLLVKAVQFYLQRQWLLKAFQQFPSPPFHWFFGHKQFQGDKELQQIMTCVENFPSAFPRWFWGSKAYLIVYDPDYMKVILGRSDPKANGVYRLLAPWIGYGLLLLNGQPWFQHRRMLTPAFHYDILKPYVKNMADSIRLMLDKWEQLAGQDSSIEIFQHISLMTLDTVMKCAFSHNGSVQVDGNYKSYIQAIGNLNDLFHSRVRNIFHQNDTIYNFSSNGHLFNRACQLAHDHTDGVIKLRKDQLQNAGELEKVKKKRRLDFLDILLLARMENGDSLSDKDLRAEVDTFMFEGHDTTASGVSWIFYALATHPEHQQRCREEVQSVLGDGSSITWDHLDQIPYTTMCIKEALRLYPPVPGIVRELSTSVTFPDGRSLPKGIQVTLSIYGLHHNPKVWPNPEVFDPSRFAPDSPRHSHSFLPFSGGARNCIGKQFAMSEMKVIVALTLLRFELLPDPTKVPIPLPRLVLKSKNGIYLYLKKLH |
| 4603 | sp|P20812|CP2A3\_RAT | MLASGLLLVASVAFLSVLVLMSVWKQRKLSGKLPPGPTPLPFIGNYLQLNTEKMYSSLMKISQRYGPVFTIHLGPRRVVVLCGQEAVKEALVDQAEEFSGRGEQATFDWLFKGYGVAFSSGERAKQLRRFSIATLRDFGVGKRGIEERIQEEAGFLIESFRKTNGALIDPTFYLSRTVSNVISSIVFGDRFDYEDKEFLSLLRMMLGSFQFTATSTGQLYEMFSSVMKHLPGPQQQAFKELQGLEDFITKKVEQNQRTLDPNSPRDFIDSFLIRMLEEKKNPNTEFYMKNLVLTTLNLFFAGTETVSTTLRYGFLLLMKHPDIEAKVHEEIDRVIGRNRQAKYEDRMKMPYTEAVIHEIQRFADMIPMGLARRVTKDTKFREFLLPKGTEVFPMLGSVLKDPKFFSNPNDFNPKHFLDDKGQFKKSDAFVPFSIGKRYCFGEGLARMELFLFLTNIMQNFCFKSPQAPQDIDVSPRLVGFATIPPNYTMSFLSR |
| 4604 | sp|O95772|STR3N\_HUMAN | MNHLPEDMENALTGSQSSHASLRNIHSINPTQLMARIESYEGREKKGISDVRRTFCLFVTFDLLFVTLLWIIELNVNGGIENTLEKEVMQYDYYSSYFDIFLLAVFRFKVLILAYAVCRLRHWWAIALTTAVTSAFLLAKVILSKLFSQGAFGYVLPIISFILAWIETWFLDFKVLPQEAEEENRLLIVQDASERAALIPGGLSDGQFYSPPESEAGSEEAEEKQDSEKPLLEL |
| 4605 | sp|Q60770|STXB3\_MOUSE | MAPPVSERGLKSVVWRKIKTAVFDDCRKEGEWKIMLLDEFTTKLLSSCCKMTDLLEEGITVIENIYKNREPVRQMKALYFISPTPKSVDCFLRDFGSKSEKKYKAAYIYFTDFCPDSLFNKIKASCSKSIRRCKEINISFIPQESQVYTLDVPDAFYYCYSPDPSNASRKEVVMEAMAEQIVTVCATLDENPGVRYKSKPLDNASKLAQLVEKKLEDYYKIDEKGLIKGKTQSQLLIIDRGFDPVSTVLHELTFQAMAYDLLPIENDTYKYKTDGKEKEAVLEEDDDLWVRVRHRHIAVVLEEIPKLMKEISSTKKATEGKTSLSALTQLMKKMPHFRKQISKQVVHLNLAEDCMNKFKLNIEKLCKTEQDLALGTDAEGQRVKDSMLVLLPVLLNKNHDNCDKIRAVLLYIFGINGTTEENLDRLIHNVKIEDDSDMIRNWSHLGVPIVPPSQQAKPLRKDRSAEETFQLSRWTPFIKDIMEDAIDNRLDSKEWPYCSRCPAVWNGSGAVSARQKPRTNYLELDRKNGSRLIIFVIGGITYSEMRCAYEVSQAHKSCEVIIGSTHILTPRKLLDDIKMLNKSKDKVSFKDE |
| 4606 | sp|P54227|STMN1\_MOUSE | MASSDIQVKELEKRASGQAFELILSPRSKESVPDFPLSPPKKKDLSLEEIQKKLEAAEERRKSHEAEVLKQLAEKREHEKEVLQKAIEENNNFSKMAEEKLTHKMEANKENREAQMAAKLERLREKDKHVEEVRKNKESKDPADETEAD |
| 4607 | sp|Q76I79|SSH1\_MOUSE | MALVTLQRSPTPSAASSSASNSELEAGSDEERKLNLSLSESFFMVKGAALFLQQGNSPQGQRSLQHPHKHAGDLPQHLQVMINLLRCEDRIKLAVRLESVWTDRVRYMVVVYTSGRQDTEENILLGVDFSSKESKSCTIGMVLRLWSDTKIHLDGDGGFSVSTAGRMHIFKPVSVQAMWSALQVLHKACEVARRHNYFPGGVALIWATYYESCISSEQSCINEWNAMQDLESTRPDSPALFVDKPTEGERTERLIKAKLRSIMMSQDLENVTSKEIRNELEKQMNCNLKEFKEFIDNEMLLILGQMDKPSLIFDHLYLGSEWNASNLEELQGSGVDYILNVTREIDNFFPGLFAYHNIRVYDEETTDLLAHWNEAYHFINKAKRNHSKCLVHCKMGVSRSASTVIAYAMKEFGWPLEKAYNYVKQKRSITRPNAGFMRQLSEYEGILDASKQRHNKLWRQQPTDDTIAEPSEFLPETLDGALDAQLPCLDDTTHPGLPRSLAPGGPALPCCFRRLSDPLLLPHHDETGGLVHLEDLEKDALLEEEESQPVEVHKLVQHPQEGARLCEKDVKRKLEFGNSKPRSDSLPQVEELEKDGSPRTGRWRRASTQLDRSLLDQENLNNNNSKRSCPDDLERDAMFGILSKVKPPYTSCADCMYPTAGGTPEAYMERHEDPSSSAICTQPTFLPHVTSSPMAHASSRSRAPERPASGPANTSPFLLPAGSRKPDVSGSGAGAAPEPPASLLEPSRETSKALPKSLQLKNPHCDKNAANMEVSAKEEPSPKKDPKPAKDLRLLFSNEAEKPTTNSYLMQHQESIIQLQKAGLVRKHTKELERLKSLPSDSPAACRDSATCRLEASIPEEGSQEPAHPALCSQAGSEEQPVGGTLQKSPTSTLPRLDHTSNFSKDFLKTVCYTPTSSSISSNLTRSSSSDSIHSVRGKPGLVKQRAQEIETRLRLAGLTVSSPLKRSHSLAKLGSLNFSTEDLSSEADTSTIADSQDAKCGLSSSFLPEPQSAPRDPAATSKSSGKSAPEHLKSPSRVNKS |
| 4608 | sp|Q9JKK1|STX6\_MOUSE | MSMEDPFFVVKGEVQKAVNTAQGLFQRWTELLQGPSAATREEIDWTTNELRNNLRSIEWDLEDLDETISIVEANPRKFNLDATELSIRKAFITSTRQIVRDMKDQMSASSVQALAERKNRQALLGDSSSQSWNAGVADRYGRLDRELQLANSHFIEEQQAQQQLIVEQQDEQLELVSGSIGVLKNMSQRIGGELEEQAVMLDDFSHELESTQSRLDNVMKKLAKVSHMTSDRRQWCAIAILFAVLVVVLILFLVL |
| 4609 | sp|Q8IZU3|SYCP3\_HUMAN | MVSSGKKYSRKSGKPSVEDQFTRAYDFETEDKKDLSGSEEDVIEGKTAVIEKRRKKRSSAGVVEDMGGEVQNMLEGVGVDINKALLAKRKRLEMYTKASLKTSNQKIEHVWKTQQDQRQKLNQEYSQQFLTLFQQWDLDMQKAEEQEEKILNMFRQQQKILQQSRIVQSQRLKTIKQLYEQFIKSMEELEKNHDNLLTGAQNEFKKEMAMLQKKIMMETQQQEIASVRKSLQSMLF |
| 4610 | sp|P51692|STA5B\_HUMAN | MAVWIQAQQLQGEALHQMQALYGQHFPIEVRHYLSQWIESQAWDSVDLDNPQENIKATQLLEGLVQELQKKAEHQVGEDGFLLKIKLGHYATQLQNTYDRCPMELVRCIRHILYNEQRLVREANNGSSPAGSLADAMSQKHLQINQTFEELRLVTQDTENELKKLQQTQEYFIIQYQESLRIQAQFGPLAQLSPQERLSRETALQQKQVSLEAWLQREAQTLQQYRVELAEKHQKTLQLLRKQQTIILDDELIQWKRRQQLAGNGGPPEGSLDVLQSWCEKLAEIIWQNRQQIRRAEHLCQQLPIPGPVEEMLAEVNATITDIISALVTSTFIIEKQPPQVLKTQTKFAATVRLLVGGKLNVHMNPPQVKATIISEQQAKSLLKNENTRNDYSGEILNNCCVMEYHQATGTLSAHFRNMSLKRIKRSDRRGAESVTEEKFTILFESQFSVGGNELVFQVKTLSLPVVVIVHGSQDNNATATVLWDNAFAEPGRVPFAVPDKVLWPQLCEALNMKFKAEVQSNRGLTKENLVFLAQKLFNNSSSHLEDYSGLSVSWSQFNRENLPGRNYTFWQWFDGVMEVLKKHLKPHWNDGAILGFVNKQQAHDLLINKPDGTFLLRFSDSEIGGITIAWKFDSQERMFWNLMPFTTRDFSIRSLADRLGDLNYLIYVFPDRPKDEVYSKYYTPVPCESATAKAVDGYVKPQIKQVVPEFVNASADAGGGSATYMDQAPSPAVCPQAHYNMYPQNPDSVLDTDGDFDLEDTMDVARRVEELLGRPMDSQWIPHAQS |
| 4611 | sp|Q15046|SYK\_HUMAN | MAAVQAAEVKVDGSEPKLSKNELKRRLKAEKKVAEKEAKQKELSEKQLSQATAAATNHTTDNGVGPEEESVDPNQYYKIRSQAIHQLKVNGEDPYPHKFHVDISLTDFIQKYSHLQPGDHLTDITLKVAGRIHAKRASGGKLIFYDLRGEGVKLQVMANSRNYKSEEEFIHINNKLRRGDIIGVQGNPGKTKKGELSIIPYEITLLSPCLHMLPHLHFGLKDKETRYRQRYLDLILNDFVRQKFIIRSKIITYIRSFLDELGFLEIETPMMNIIPGGAVAKPFITYHNELDMNLYMRIAPELYHKMLVVGGIDRVYEIGRQFRNEGIDLTHNPEFTTCEFYMAYADYHDLMEITEKMVSGMVKHITGSYKVTYHPDGPEGQAYDVDFTPPFRRINMVEELEKALGMKLPETNLFETEETRKILDDICVAKAVECPPPRTTARLLDKLVGEFLEVTCINPTFICDHPQIMSPLAKWHRSKEGLTERFELFVMKKEICNAYTELNDPMRQRQLFEEQAKAKAAGDDEAMFIDENFCTALEYGLPPTAGWGMGIDRVAMFLTDSNNIKEVLLFPAMKPEDKKENVATTDTLESTTVGTSV |
| 4612 | sp|P29056|TF3B\_YEAST | MPVCKNCHGTEFERDLSNANNDLVCKACGVVSEDNPIVSEVTFGETSAGAAVVQGSFIGAGQSHAAFGGSSALESREATLNNARRKLRAVSYALHIPEYITDAAFQWYKLALANNFVQGRRSQNVIASCLYVACRKEKTHHMLIDFSSRLQVSVYSIGATFLKMVKKLHITELPLADPSLFIQHFAEKLDLADKKIKVVKDAVKLAQRMSKDWMFEGRRPAGIAGACILLACRMNNLRRTHTEIVAVSHVAEETLQQRLNEFKNTKAAKLSVQKFRENDVEDGEARPPSFVKNRKKERKIKDSLDKEEMFQTSEEALNKNPILTQVLGEQELSSKEVLFYLKQFSERRARVVERIKATNGIDGENIYHEGSENETRKRKLSEVSIQNEHVEGEDKETEGTEEKVKKVKTKTSEEKKENESGHFQDAIDGYSLETDPYCPRNLHLLPTTDTYLSKVSDDPDNLEDVDDEELNAHLLNEEASKLKERIWIGLNADFLLEQESKRLKQEADIATGNTSVKKKRTRRRNNTRSDEPTKTVDAAAAIGLMSDLQDKSGLHAALKAAEESGDFTTADSVKNMLQKASFSKKINYDAIDGLFR |
| 4613 | sp|P13385|TDGF1\_HUMAN | MDCRKMARFSYSVIWIMAISKVFELGLVAGLGHQEFARPSRGYLAFRDDSIWPQEEPAIRPRSSQRVPPMGIQHSKELNRTCCLNGGTCMLGSFCACPPSFYGRNCEHDVRKENCGSVPHDTWLPKKCSLCKCWHGQLRCFPQAFLPGCDGLVMDEHLVASRTPELPPSARTTTFMLVGICLSIQSYY |
| 4614 | sp|Q96CE8|T4S18\_HUMAN | MGSRKCGGCLSCLLIPLALWSIIVNILLYFPNGQTSYASSNKLTNYVWYFEGICFSGIMMLIVTTVLLVLENNNNYKCCQSENCSKKYVTLLSIIFSSLGIAFSGYCLVISALGLVQGPYCRTLDGWEYAFEGTAGRFLTDSSIWIQCLEPAHVVEWNIILFSILITLSGLQVIICLIRVVMQLSKILCGSYSVIFQPGII |
| 4615 | sp|Q9WUN2|TBK1\_MOUSE | MQSTSNHLWLLSDILGQGATANVFRGRHKKTGDLYAVKVFNNISFLRPVDVQMREFEVLKKLNHKNIVKLFAIEEETTTRHKVLIMEFCPCGSLYTVLEEPSNAYGLPESEFLIVLRDVVGGMNHLRENGIVHRDIKPGNIMRVIGEDGQSVYKLTDFGAARELEDDEQFVSLYGTEEYLHPDMYERAVLRKDHQKKYGATVDLWSVGVTFYHAATGSLPFRPFEGPRRNKEVMYKIITGKPSGAISGVQKAENGPIDWSGDMPLSCSLSQGLQALLTPVLANILEADQEKCWGFDQFFAETSDVLHRMVIHVFSLQHMTAHKIYIHSYNTAAVFHELVYKQTKIVSSNQELIYEGRRLVLELGRLAQHFPKTTEENPIFVTSREQLNTVGLRYEKISLPKIHPRYDLDGDASMAKAVTGVVCYACRTASTLLLYQELMRKGVRWLVELVKDDYNETVHKKTEVVITLDFCIRNIEKTVKVYEKLMKVNLEAAELGEISDIHTKLLRLSSSQGTIESSLQDISSRLSPGGLLADTWAHQEGTHPRDRNVEKLQVLLNCITEIYYQFKKDKAERRLAYNEEQIHKFDKQKLYYHATKAMSHFSEECVRKYEAFKDKSEEWMRKMLHLRKQLLSLTNQCFDIEEEVSKYQDYTNELQETLPQKMLAASGGVKHAMAPIYPSSNTLVEMTLGMKKLKEEMEGVVKELAENNHILERFGSLTMDGGLRNVDCL |
| 4616 | sp|P87061|TEA1\_SCHPO | MSFLFKRNKGSAHKPTKPNFSKTSTTPSTSQLKHSHESNVKMSTSTVTEHRKKPTGSGSHITASPWSKLTVRGSSNVLPRYSHASHLYAEGGQEIYIFGGVASDSQPKNDLWVLNLATSQFTSLRSLGETPSPRLGHASILIGNAFIVFGGLTNHDVADRQDNSLYLLNTSSLVWQKANASGARPSGRYGHTISCLGSKICLFGGRLLDYYFNDLVCFDLNNLNTSDSRWELASVVNDPPPARAGHVAFTFSDKLYIFGGTDGANFFNDLWCYHPKQSAWSKVETFGVAPNPRAGHAASVVEGILYVFGGRASDGTFLNDLYAFRLSSKHWYKLSDLPFTPSPRSSHTLSCSGLTLVLIGGKQGKGASDSNVYMLDTSRFRLGSVPTTSGRQRNTSFFSNSTGNTNPSAFNGLLTSSRIPSYNGSKVRSTSHPSRQQYIGSSNSRFNTRHQTISTPVSGRASNDLPSPVVPTRSNSSSILQPSYNLNSHSSDRRNTNDDDQSSLNSQQLSNQAKAQGEVSPTLSFVPSSHSMEQGNGSVASANNAQSEAATRSINSISEVSEVRFPEQSSVKTVDERKSLDGRITSVTLETLVEKYSELSKQQIVEWFKSKLYEILRDSASKIDSLTEKLKVANAEKNAALCEAALEKVPLAKHNKLSDGTFSTPDKENVQSTNDAHIMQENFSLHKALEVMRETSSDLDKQLKDATASQKELIVQTSSFQKELVEERERHNAISKRLQEIESLYRDRELLVTNLEDQLVDQTVTINKFAFERDQFRERSMGFENTIKDLTRKMEATDMLNVSLHESLRSVQTENSELVTEMALLKAELVKKQAIIDANANIYDKLTADHTNYETVSADINQNLKETLDKLLNGSSDFKNNEIELLHDQIRITNAKLEKREKLINASKYIEDTLRSEIQEAAEKVSNLEFSNFNLKEENSNMQLQLMKALEQRNTGAKQLVNLRMQLSTATSELDMLKLKLRTTALALEESPDDYSDILSILRADMSPFHDLHKQCGVLIDTLNGVKRGFGIFEKKFTDYHKFLENISDKLKSEEDTSLETPIHENQSIQSDQIKEVGEVLSAIKSLSDSVMLLKNQIDDLAKEKLPLSSSDDEKVNIKEKTDFMKLLVKSGLSNPPAKEPVHDNEN |
| 4617 | sp|Q15561|TEAD4\_HUMAN | MEGTAGTITSNEWSSPTSPEGSTASGGSQALDKPIDNDAEGVWSPDIEQSFQEALAIYPPCGRRKIILSDEGKMYGRNELIARYIKLRTGKTRTRKQVSSHIQVLARRKAREIQAKLKDQAAKDKALQSMAAMSSAQIISATAFHSSMALARGPGRPAVSGFWQGALPGQAGTSHDVKPFSQQTYAVQPPLPLPGFESPAGPAPSPSAPPAPPWQGRSVASSKLWMLEFSAFLEQQQDPDTYNKHLFVHIGQSSPSYSDPYLEAVDIRQIYDKFPEKKGGLKDLFERGPSNAFFLVKFWADLNTNIEDEGSSFYGVSSQYESPENMIITCSTKVCSFGKQVVEKVETEYARYENGHYSYRIHRSPLCEYMINFIHKLKHLPEKYMMNSVLENFTILQVVTNRDTQETLLCIAYVFEVSASEHGAQHHIYRLVKE |
| 4618 | sp|Q9NYW4|TA2R5\_HUMAN | MLSAGLGLLMLVAVVEFLIGLIGNGSLVVWSFREWIRKFNWSSYNLIILGLAGCRFLLQWLIILDLSLFPLFQSSRWLRYLSIFWVLVSQASLWFATFLSVFYCKKITTFDRPAYLWLKQRAYNLSLWCLLGYFIINLLLTVQIGLTFYHPPQGNSSIRYPFESWQYLYAFQLNSGSYLPLVVFLVSSGMLIVSLYTHHKKMKVHSAGRRDVRAKAHITALKSLGCFLLLHLVYIMASPFSITSKTYPPDLTSVFIWETLMAAYPSLHSLILIMGIPRVKQTCQKILWKTVCARRCWGP |
| 4619 | sp|Q0VZ68|TAM\_CHOCO | MKITGSNLSIYDVADVCMKRATVELDPSQLERVAVAHERTQAWGEAQHPIYGVNTGFGELVPVMIPRQHKRELQENLIRSHAAGGGEPFADDVVRAIMLARLNCLMKGYSGASVETVKLLAEFINRGIHPVIPQQGSLGASGDLSPLSHIALALIGEGTVSFKGQVRKTGDVLREEGLKPLELGFKGGLTLINGTSAMTGAACVALGRAYHLFRLALLATADFVQCLGGSTGPFEERGHLPKNHSGQVIVAREIRKLLAGSQLTSDHQDLMKEMVARSGVGNDVVDTGVYLQDAYTLRAVPQILGPVLDTLDFARKLIEEELNSTNDNPLIFDVPEQTFHGANFHGQYVAMACDYLNIAVTEIGVLAERQLNRLVDPNINGKLPPFLASAHSGLLCGFEGGQYLATSIASENLDLAAPSSIKSLPSNGSNQDVVSMGTTSARKSLRLCENVGTIVSTLIAACNQAGHILGNERFSPPIRELHGELSRSVPLYQDDSPIFELFQTVRAFVGGDGFRAHLVTHLDLAATTASS |
| 4620 | sp|Q8LDQ4|TAP46\_ARATH | MGGLAMEEMPLSVLFEQARKIHLAASESGVDQDVVKKGCEMFQKCEDMIGKLALFSSNETKEDISTNNLKYLLVPYYLAELTEKIIQEDRIQIVKASYAKLKEFFSFCEAMELVPDEELEASSRGGSGAPADRRALKIARFKRQKAAEAKLLEIKERKERRGRSTKASALSTPVESGEDDIPDDDSEEEREAWLSSINLAICKAIDLLEMLKREEEMLSAIKERQLKDGEGGFSRDALDDRTKKAETWHRDAAARIQYSKPAQPITCATFAQDVLEGRASVSQGHEHKNQPLIFGPASIVGGPLSTERERMIAQVFQPSHRMPTMCIEDAGLTEMNIMNDWQEQTKKAIEEATTSWYNDKPLRRKEEDEEDDDEDEEAVMKARAFDDWKDDNPRGAGNKKLTPCG |
| 4621 | sp|P05452|TETN\_HUMAN | MELWGAYLLLCLFSLLTQVTTEPPTQKPKKIVNAKKDVVNTKMFEELKSRLDTLAQEVALLKEQQALQTVCLKGTKVHMKCFLAFTQTKTFHEASEDCISRGGTLGTPQTGSENDALYEYLRQSVGNEAEIWLGLNDMAAEGTWVDMTGARIAYKNWETEITAQPDGGKTENCAVLSGAANGKWFDKRCRDQLPYICQFGIV |
| 4622 | sp|Q8NBV8|SYT8\_HUMAN | MLHLHGWQTMQGRKMGHPPVSPSAPAPAGTTAIPGLIPDLVAGTPWPRWALIAGALAAGVLLVSCLLCAACCCCRRHRKKPRDKESVGLGSARGTTTTHLVQPDVDGLESSPGDAQQWGCLQLSLEFDFGSQEIRVGLRQAADLRPGGTVDPYARVSVSTQAGHRHETKVHRGTLCPVFDETCCFHIPQAELPGATLQVQLFNFKRFSGHEPLGELRLPLGTVDLQHVLEHWYLLGPPAATQPEQVGELCFSLRYVPSSGRLTVVVLEARGLRPGLAEPYVKVQLMLNQRKWKKRKTATKKGTAAPYFNEAFTFLVPFSQVQNVDLVLAVWDRSLPLRTEPVGKVHLGARASGQPLQHWADMLAHARRPIAQRHPLRPAREVDRMLALQPRLRLRLPLPHS |
| 4623 | sp|Q63572|TESK1\_RAT | MAGERPPLRGPGPGETPVEGPGGAGGGPGRGRPSSYRALRSAVSSLARVDDFDCAEKIGAGFFSEVYKVRHRQSGQVMVLKMNKLPSNRSNTLREVQLMNRLRHPNILRFMGVCVHQGQLHALTEYMNGGTLEQLLSSPEPLSWPVRLHLALDIAQGLRYLHAKGVFHRDLTSKNCLVRREDGGFTAVVGDFGLAEKIPVYREGARKEPLAVVGSPYWMAPEVLRGELYDEKADVFAFGIVLCELIARVPADPDYLPRTEDFGLDVPAFRTLVGNDCPLPFLLLAIHCCSMEPSARAPFTEITQHLEQILEQLPEPTPLAKMPLAKAPLTYNQGSVPRGGPSATLPRSDPRLSRSRSDLFLPPSPESPPSWGDNLTRVNPFSLREDLRGGKIKLLDTPCKPATPLPLVPPSPLTSTQLPLVASPESLVQPETPVRRCRSLPSSPELPRRMETALPGPGPSPVGPSTEERMDCEGSSPEPEPPGPAPQLPLAVATDNFISTCSSASQPWSARPGPSLNNNPPAVVVNSPQGWAREPWNRAQHSLPRAAALERTEPSPPPSAPREQEEGLPCPGCCLSPFSFGFLSMCPRPTPAVARYRNLNCEAGSLLCHRGHHAKPPTPSLQLPGARS |
| 4624 | sp|P36372|TAP2\_RAT | MALSHPRPWASLLLVDLALLGLLQSSLGTLLPPGLPGLWLEGTLRLGVLWGLLKVGGLLRLVGTFLPLLCLTNPLFFSLRALVGSTMSTSVVRVASASWGWLLADYGAVALSLAVWAVLSPAGAQEKEPGQENNRALMIRLLRLSKPDLPFLIVAFIFLAMAVWWEMFIPHYSGRVIDILGGDFDPDAFASAIFFMCLFSVGSSLSAGCRGGSFLFAESRINLRIREQLFSSLLRQDLAFFQETKTGELNSRLSSDTSLMSQWLSLNANILLRSLVKVVGLYYFMLQVSPRLTFLSLLDLPLTIAAEKVYNPRHQAVLKEIQDAVAKAGQVVREAVGGLQTVRSFGAEEQEVRRYKEALERCRQLWWRRDLEKSLYLVIQRVMALGMQVLILNVGVQQILAGEVTRGGLLSFLLYQEEVGHHVQNLVYMYGDMLSNVGAAEKVFSYLDRRPNLPNPGTLAPPRLEGRVEFQDVSFSYPSRPEKPVLQGLTFTLHPGKVTALVGPNGSGKSTVAALLQNLYQPTGGQLLLDGEPLVQYDHHYLHRQVVLVGQEPVLFSGSVKDNIAYGLRDCEDAQVMAAAQAACADDFIGEMTNGINTEIGEKGSQLAVGQKQRLAIARALVRNPRVLILDEATSALDAECEQALQTWRSQEDRTMLVIAHRLHTVQNADQVLVLKQGQLVEHDQLRDEQDVYAHLVQQRLEA |
| 4625 | sp|Q15572|TAF1C\_HUMAN | MDFPSSLRPALFLTGPLGLSDVPDLSFMCSWRDALTLPEAQPQNSENGALHVTKDLLWEPATPGPLPMLPPLIDPWDPGLTARDLLFRGGCRYRKRPRVVLDVTEQISRFLLDHGDVAFAPLGKLMLENFKLEGAGSRTKKKTVVSVKKLLQDLGGHQPWGCPWAYLSNRQRRFSILGGPILGTSVASHLAELLHEELVLRWEQLLLDEACTGGALAWVPGRTPQFGQLVYPAGGAQDRLHFQEVVLTPGDNPQFLGKPGRIQLQGPVRQVVTCTVQGESKALIYTFLPHWLTCYLTPGPFHPSSALLAVRSDYHCAVWKFGKQWQPTLLQAMQVEKGATGISLSPHLPGELAICSRSGAVCLWSPEDGLRQIYRDPETLVFRDSSSWRWADFTAHPRVLTVGDRTGVKMLDTQGPPGCGLLLFRLGAEASCQKGERVLLTQYLGHSSPKCLPPTLHLVCTQFSLYLVDERLPLVPMLKWNHGLPSPLLLARLLPPPRPSCVQPLLLGGQGGQLQLLHLAGEGASVPRLAGPPQSLPSRIDSLPAFPLLEPKIQWRLQERLKAPTIGLAAVVPPLPSAPTPGLVLFQLSAAGDVFYQQLRPQVDSSLRRDAGPPGDTQPDCHAPTASWTSQDTAGCSQWLKALLKVPLAPPVWTAPTFTHRQMLGSTELRREEEEGQRLGVLRKAMARGQLLLQRDLGSLPAAEPPPAPESGLEDKLSERLGEAWAGRGAAWWERQQGRTSEPGRQTRRPKRRTQLSSSFSLSGHVDPSEDTSSPHSPEWPPADALPLPPTTPPSQELTPDACAQGVPSEQRQMLRDYMAKLPPQRDTPGCATTPPHSQASSVRATRSQQHTPVLSSSQPLRKKPRMGF |
| 4626 | sp|P70326|TBX5\_MOUSE | MADTDEGFGLARTPLEPDSKDRSCDSKPESALGAPSKSPSSPQAAFTQQGMEGIKVFLHERELWLKFHEVGTEMIITKAGRRMFPSYKVKVTGLNPKTKYILLMDIVPADDHRYKFADNKWSVTGKAEPAMPGRLYVHPDSPATGAHWMRQLVSFQKLKLTNNHLDPFGHIILNSMHKYQPRLHIVKADENNGFGSKNTAFCTHVFPETAFIAVTSYQNHKITQLKIENNPFAKGFRGSDDLELHRMSRMQSKEYPVVPRSTVRHKVTSNHSPFSSETRALSTSSNLGSQYQCENGVSGPSQDLLPPPNPYPLAQEHSQIYHCTKRKDEECSSTEHPYKKPYMETSPSEEDTFYRSGYPQQQGLSTSYRTESAQRQACMYASSAPPSEPVPSLEDISCNTWPSMPSYSSCTVTTVQPMDRLPYQHFSAHFTSGPLVPRLAGMANHGSPQLGEGMFQHQTSVAHQPVVRQCGPQTGLQSPGGLQPPEFLYTHGVPRTLSPHQYHSVHGVGMVPEWSENS |
| 4627 | sp|Q9R0N7|SYT7\_MOUSE | MYRDPEAASPGAPTRDVLLVSAIITVSLSVTIVLCGLCHWCQRKLGKRYKNSLETVGTPDSGRGRGEKKAIKLPAGGKAVNTAPVPGQTPHDESDRRTETRSSVSDLVNSLTSEMLMLSPGSEEDEAHEGCSRENLGRIQFSVGYNFQESTLTVKVMKAQELPAKDFSGTSDPFVKIYLLPDKKHKLETKVKRKNLNPHWNETFLFEGFPYEKVVQRVLYLQVLDYDRFSRNDPIGEVSIPLNKVDLTQMQTFWKDLKPCSDGSGSRGELLLSLCYNPSANSIIVNIIKARNLKAMDIGGTSDPYVKVWLMYKDKRVEKKKTVTKKRNLNPIFNESFAFDIPTEKLRETTIIITVMDKDKLSRNDVIGKIYLSWKSGPGEVKHWKDMIARPRQPVAQWHQLKA |
| 4628 | sp|O43548|TGM5\_HUMAN | MAQGLEVALTDLQSSRNNVRHHTEEITVDHLLVRRGQAFNLTLYFRNRSFQPGLDNIIFVVETGPLPDLALGTRAVFSLARHHSPSPWIAWLETNGATSTEVSLCAPPTAAVGRYLLKIHIDSFQGSVTAYQLGEFILLFNPWCPEDAVYLDSEPQRQEYVMNDYGFIYQGSKNWIRPCPWNYGQFEDKIIDICLKLLDKSLHFQTDPATDCALRGSPVYVSRVVCAMINSNDDNGVLNGNWSENYTDGANPAEWTGSVAILKQWNATGCQPVRYGQCWVFAAVMCTVMRCLGIPTRVITNFDSGHDTDGNLIIDEYYDNTGRILGNKKKDTIWNFHVWNECWMARKDLPPAYGGWQVLDATPQEMSNGVYCCGPASVRAIKEGEVDLNYDTPFVFSMVNADCMSWLVQGGKEQKLHQDTSSVGNFISTKSIQSDERDDITENYKYEEGSLQERQVFLKALQKLKARSFHGSQRGAELQPSRPTSLSQDSPRSLHTPSLRPSDVVQVSLKFKLLDPPNMGQDICFVLLALNMSSQFKDLKVNLSAQSLLHDGSPLSPFWQDTAFITLSPKEAKTYPCKISYSQYSQYLSTDKLIRISALGEEKSSPEKILVNKIITLSYPSITINVLGAAVVNQPLSIQVIFSNPLSEQVEDCVLTVEGSGLFKKQQKVFLGVLKPQHQASIILETVPFKSGQRQIQANMRSNKFKDIKGYRNVYVDFAL |
| 4629 | sp|Q8BGV3|TACD2\_MOUSE | MARGLDLAPLLLLLLAMATRFCTAQSNCTCPTNKMTVCDTNGPGGVCQCRAMGSQVLVDCSTLTSKCLLLKARMSARKSGRSLVMPSEHAILDNDGLYDPECDDKGRFKARQCNQTSVCWCVNSVGVRRTDKGDQSLRCDEVVRTHHILIELRHRPTDRAFNHSDLDSELRRLFQERYKLHPSFLSAVHYEEPTIQIELRQNASQKGLRDVDIADAAYYFERDIKGESLFMGRRGLDVQVRGEPLHVERTLIYYLDEKPPQFSMKRLTAGVIAVIAVVSVAVVAGVVVLVVTKRRKSGKYKKVELKELGEMRSEPSL |
| 4630 | sp|Q5JRA6|TGO1\_HUMAN | MAAAPGLLVWLLVLRLPWRVPGQLDPSTGRRFSEHKLCADDECSMLMYRGEALEDFTGPDCRFVNFKKGDPVYVYYKLARGWPEVWAGSVGRTFGYFPKDLIQVVHEYTKEELQVPTDETDFVCFDGGRDDFHNYNVEELLGFLELYNSAATDSEKAVEKTLQDMEKNPELSKEREPEPEPVEANSEESDSVFSENTEDLQEQFTTQKHHSHANSQANHAQGEQASFESFEEMLQDKLKVPESENNKTSNSSQVSNEQDKIDAYKLLKKEMTLDLKTKFGSTADALVSDDETTRLVTSLEDDFDEELDTEYYAVGKEDEENQEDFDELPLLTFTDGEDMKTPAKSGVEKYPTDKEQNSNEEDKVQLTVPPGIKNDDKNILTTWGDTIFSIVTGGEETRDTMDLESSSSEEEKEDDDDALVPDSKQGKPQSATDYSDPDNVDDGLFIVDIPKTNNDKEVNAEHHIKGKGRGVQESKRGLVQDKTELEDENQEGMTVHSSVHSNNLNSMPAAEKGKDTLKSAYDDTENDLKGAAIHISKGMLHEEKPGEQILEGGSESESAQKAAGNQMNDRKIQQESLGSAPLMGDDHPNASRDSVEGDALVNGAKLHTLSVEHQREELKEELVLKTQNQPRFSSPDEIDLPRELEDEVPILGRNLPWQQERDVAATASKQMSEKIRLSEGEAKEDSLDEEFFHHKAMQGTEVGQTDQTDSTGGPAFLSKVEEDDYPSEELLEDENAINAKRSKEKNPGNQGRQFDVNLQVPDRAVLGTIHPDPEIEESKQETSMILDSEKTSETAAKGVNTGGREPNTMVEKERPLADKKAQRPFERSDFSDSIKIQTPELGEVFQNKDSDYLKNDNPEEHLKTSGLAGEPEGELSKEDHENTEKYMGTESQGSAAAEPEDDSFHWTPHTSVEPGHSDKREDLLIISSFFKEQQSLQRFQKYFNVHELEALLQEMSSKLKSAQQESLPYNMEKVLDKVFRASESQILSIAEKMLDTRVAENRDLGMNENNIFEEAAVLDDIQDLIYFVRYKHSTAEETATLVMAPPLEEGLGGAMEEMQPLHEDNFSREKTAELNVQVPEEPTHLDQRVIGDTHASEVSQKPNTEKDLDPGPVTTEDTPMDAIDANKQPETAAEEPASVTPLENAILLIYSFMFYLTKSLVATLPDDVQPGPDFYGLPWKPVFITAFLGIASFAIFLWRTVLVVKDRVYQVTEQQISEKLKTIMKENTELVQKLSNYEQKIKESKKHVQETRKQNMILSDEAIKYKDKIKTLEKNQEILDDTAKNLRVMLESEREQNVKNQDLISENKKSIEKLKDVISMNASEFSEVQIALNEAKLSEEKVKSECHRVQEENARLKKKKEQLQQEIEDWSKLHAELSEQIKSFEKSQKDLEVALTHKDDNINALTNCITQLNLLECESESEGQNKGGNDSDELANGEVGGDRNEKMKNQIKQMMDVSRTQTAISVVEEDLKLLQLKLRASVSTKCNLEDQVKKLEDDRNSLQAAKAGLEDECKTLRQKVEILNELYQQKEMALQKKLSQEEYERQEREHRLSAADEKAVSAAEEVKTYKRRIEEMEDELQKTERSFKNQIATHEKKAHENWLKARAAERAIAEEKREAANLRHKLLELTQKMAMLQEEPVIVKPMPGKPNTQNPPRRGPLSQNGSFGPSPVSGGECSPPLTVEPPVRPLSATLNRRDMPRSEFGSVDGPLPHPRWSAEASGKPSPSDPGSGTATMMNSSSRGSSPTRVLDEGKVNMAPKGPPPFPGVPLMSTPMGGPVPPPIRYGPPPQLCGPFGPRPLPPPFGPGMRPPLGLREFAPGVPPGRRDLPLHPRGFLPGHAPFRPLGSLGPREYFIPGTRLPPPTHGPQEYPPPPAVRDLLPSGSRDEPPPASQSTSQDCSQALKQSP |
| 4631 | sp|Q9BSI4|TINF2\_HUMAN | MATPLVAGPAALRFAAAASWQVVRGRCVEHFPRVLEFLRSLRAVAPGLVRYRHHERLCMGLKAKVVVELILQGRPWAQVLKALNHHFPESGPIVRDPKATKQDLRKILEAQETFYQQVKQLSEAPVDLASKLQELEQEYGEPFLAAMEKLLFEYLCQLEKALPTPQAQQLQDVLSWMQPGVSITSSLAWRQYGVDMGWLLPECSVTDSVNLAEPMEQNPPQQQRLALHNPLPKAKPGTHLPQGPSSRTHPEPLAGRHFNLAPLGRRRVQSQWASTRGGHKERPTVMLFPFRNLGSPTQVISKPESKEEHAIYTADLAMGTRAASTGKSKSPCQTLGGRALKENPVDLPATEQKENCLDCYMDPLRLSLLPPRARKPVCPPSLCSSVITIGDLVLDSDEEENGQGEGKESLENYQKTKFDTLIPTLCEYLPPSGHGAIPVSSCDCRDSSRPL |
| 4632 | sp|Q99J99|THTM\_MOUSE | MAAPQLFRALVSAQWVAEALKAPRSSQPLKLLDASWYLPKLGRDARREFEERHIPGAAFFDIDRCSDHTSPYDHMLPNATHFADYAGSLGVSAATHVVIYDDSDQGLYSAPRVWWMFRAFGHHSVSLLDGGFRHWLNQNLPISSGKSHSEPAEFSAQLDPSFIKTHEDILENLDARRFQVVDARAAGRFQGTQPEPRDGIEPGHIPGSVNIPFTEFLTNEGLEKSPEEIKRLFKEKKVDLSKPLVATCGSGVTACHVVLGAFLCGKSDVPVYDGSWVEWYMRAQPEHIISEGRGKTQ |
| 4633 | sp|Q805B4|TISDB\_XENLA | MSTTLLSAFYDIDLLYKNEKALNNLALSTMLDKKAVGSPVSSTNSNLFPGFLRRHSATNLQALSGSTNLAKFCPNNNNNPLKDPAVSSTALLNRENKFRDRSFSENGERSQHLLHLQQQQQQQKAGAQVNSTRYKTELCRPFEENGACKYGEKCQFAHGFHELRSLTRHPKYKTELCRTFHTIGFCPYGPRCHFIHNAEERRQAPGAGERPKLHHSLSFSGFPNHSLDSPLLESPTSRTPPPQSSGSLYCQELLQLNNNNPCANNAFTFSGQELGLIAPLAIHTQNQSYCRQPCSSPPLSFQPLRRVSESPVFDAPPSPPDSLSDRDSYLSGSLSSGSLSGSDSPTLDSNRRLPIFSRLSISDD |
| 4634 | sp|Q9Y3A6|TMED5\_HUMAN | MGDKIWLPFPVLLLAALPPVLLPGAAGFTPSLDSDFTFTLPAGQKECFYQPMPLKASLEIEYQVLDGAGLDIDFHLASPEGKTLVFEQRKSDGVHTVETEVGDYMFCFDNTFSTISEKVIFFELILDNMGEQAQEQEDWKKYITGTDILDMKLEDILESINSIKSRLSKSGHIQTLLRAFEARDRNIQESNFDRVNFWSMVNLVVMVVVSAIQVYMLKSLFEDKRKSRT |
| 4635 | sp|Q96BF3|TMIG2\_HUMAN | MGSPGMVLGLLVQIWALQEASSLSVQQGPNLLQVRQGSQATLVCQVDQATAWERLRVKWTKDGAILCQPYITNGSLSLGVCGPQGRLSWQAPSHLTLQLDPVSLNHSGAYVCWAAVEIPELEEAEGNITRLFVDPDDPTQNRNRIASFPGFLFVLLGVGSMGVAAIVWGAWFWGRRSCQQRDSGNSPGNAFYSNVLYRPRGAPKKSEDCSGEGKDQRGQSIYSTSFPQPAPRQPHLASRPCPSPRPCPSPRPGHPVSMVRVSPRPSPTQQPRPKGFPKVGEE |
| 4636 | sp|Q95LA9|TLR2\_BOVIN | MPRALWTAWVWAVIILSTEGASDQASSLSCDPTGVCDGHSRSLNSIPSGLTAGVKSLDLSNNDITYVGNRDLQRCVNLKTLRLGANEIHTVEEDSFFHLRNLEYLDLSYNRLSNLSSSWFRSLYVLKFLNLLGNLYKTLGETSLFSHLPNLRTLKVGNSNSFTEIHEKDFTGLTFLEELEISAQNLQIYVPKSLKSIQNISHLILHLKQPILLVDILVDIVSSLDCFELRDTNLHTFHFSEASISEMSTSVKKLIFRNVQFTDESFVEVVKLFNYVSGILEVEFDDCTHDGIGDFRALSLDRIRHLGNVETLTIRKLHIPQFFLFHDLSSIYPLTGRVKRVTIENSKVFLVPCLLSQHLKSLEYLDLSENLMSEETLKNSACKDAWPFLQTLVLRQNRLKSLEKTGELLLTLENLNNLDISKNNFLSMPETCQWPGKMKQLNLSSTRIHSLTQCLPQTLEILDVSNNNLDSFSLILPQLKELYISRNKLKTLPDASFLPVLSVMRISRNIINTFSKEQLDSFQQLKTLEAGGNNFICSCDFLSFTQGQQALGRVLVDWPDDYRCDSPSHVRGQRVQDARLSLSECHRAAVVSAACCALFLLLLLTGVLCHRFHGLWYMKMMWAWLQAKRKPRKAPRRDICYDAFVSYSERDSYWVENLMVQELEHFNPPFKLCLHKRDFIPGKWIIDNIIDSIEKSHKTIFVLSENFVKSEWCKYELDFSHFRLFDENNDAAILILLEPIDKKAIPQRFCKLRKIMNTKTYLEWPVDETQQEGFWLNLRAAIRS |
| 4637 | sp|Q8BHE4|TM108\_MOUSE | MKRSLQALYCQLLSFLLTLALTKALVLAVHEPSPRESLQTLPSGSPPGTMVTAPHSPTRLSSVLTLNPTPDGPSSQAAATLETTVSHPEGHPPTDTTSTVMGTAAVPHPESPLPTGSPPAAMTTTPSHSESLPPGDATPTTTLPTKPAGTTSRPTVAPRATTRRPPRPPGSSRKGAGGSTRTLTPVPGGHLARKESQRGRNQSSAHLGPKRPLGKIFQIYKGNFTGSAEPDPSALTPRTPLGGYFSSTQPQTVSPATAPRSTSRVPPTTSLVPVKDKPGFIRSNQGSGPILTSPGGEPAATAATGAPASTQPAPVPSQSPHGDVQDSASHSDSWLAVTPDTDRPTSASSGVFTAATGPTQAAFDATVSAPSPGIPQGPSATPQAPTRPSGVSESTVSPAEEEAEASPTTTDRGPRPLSTVLSTATGNFLNRLVPAGTWKPGTVANISHVAEGDKPQHRATICLSKMDIAWVIVAISVPISSCSVLLTVCCMRRKKKTANPENNLSYWNNAITMDYFNRHAVELPREIQSLETSEDQLSEPRSPANGDYRDTGMVLVNPFCQETLFVGNDQVSEI |
| 4638 | sp|Q07258|TGFB3\_RAT | MKMHLQRALVVLALLNLATVSLSLSTCTTLDFGHIKKKRVEAIRGQILSKLRLTSPPEPSVMTHVPYQVLALYNSTRELLEEMHGEREEGCTQETSESEYYAKEIHKFDMIQGLAEHNELAVCPKGITSKVFRFNVSSVEKNGTNLFRAEFRVLRVPNPSSKRTEQRIELFQILRPDEHIAKQRYIGGKNLPTRGTAEWLSFDVTDTVREWLLRRESNLGLEISIHCPCHTFQPNGDILENVHEVMEIKFKGVDNEDDHGRGDLGRLKKQKDHHNPHLILMMIPPHRLDSPGQGGQRKKRALDTNYCFRNLEENCCVRPLYIDFRQDLGWKWVHEPKGYYANFCSGPCPYLRSSDTTHSTVLGLYNTLNPEASASPCCVPQDLEPLTILYYVGRTPKVEQLSNMVVKSCKCS |
| 4639 | sp|Q5H9I0|TFDP3\_HUMAN | MAKYVSLTEANEELKVLMDENQTSRPVAVHTSTVNPLGKQLLPKTFGQSSVNIDQQVVIGMPQRPAASNIPVVGSPNPPSTHFASQNQHSYSSPPWAGQHNRKGEKNGMGLCRLSMKVWETVQRKGTTSCQEVVGELVAKFRAASNHASPNESAYDVKNIKRRTYDALNVLMAMNIISREKKKIKWIGLTTNSAQNCQNLRVERQKRLERIKQKQSELQQLILQQIAFKNLVLRNQYVEEQVSQRPLPNSVIHVPFIIISSSKKTVINCSISDDKSEYLFKFNSSFEIHDDTEVLMWMGMTFGLESGSCSAEDLKMARNLVPKALEPYVTEMAQGTFGGVFTTAGSRSNGTWLSASDLTNIAIGMLATSSGGSQYSGSRVETPAVEEEEEEDNNDDDLSENDEDD |
| 4640 | sp|P23003|TRMA\_ECOLI | MTPEHLPTEQYEAQLAEKVVRLQSMMAPFSDLVPEVFRSPVSHYRMRAEFRIWHDGDDLYHIIFDQQTKSRIRVDSFPAASELINQLMTAMIAGVRNNPVLRHKLFQIDYLTTLSNQAVVSLLYHKKLDDEWRQEAEALRDALRAQNLNVHLIGRATKTKIELDQDYIDERLPVAGKEMIYRQVENSFTQPNAAMNIQMLEWALDVTKGSKGDLLELYCGNGNFSLALARNFDRVLATEIAKPSVAAAQYNIAANHIDNVQIIRMAAEEFTQAMNGVREFNRLQGIDLKSYQCETIFVDPPRSGLDSETEKMVQAYPRILYISCNPETLCKNLETLSQTHKVERLALFDQFPYTHHMECGVLLTAK |
| 4641 | sp|O95271|TNKS1\_HUMAN | MAASRRSQHHHHHHQQQLQPAPGASAPPPPPPPPLSPGLAPGTTPASPTASGLAPFASPRHGLALPEGDGSRDPPDRPRSPDPVDGTSCCSTTSTICTVAAAPVVPAVSTSSAAGVAPNPAGSGSNNSPSSSSSPTSSSSSSPSSPGSSLAESPEAAGVSSTAPLGPGAAGPGTGVPAVSGALRELLEACRNGDVSRVKRLVDAANVNAKDMAGRKSSPLHFAAGFGRKDVVEHLLQMGANVHARDDGGLIPLHNACSFGHAEVVSLLLCQGADPNARDNWNYTPLHEAAIKGKIDVCIVLLQHGADPNIRNTDGKSALDLADPSAKAVLTGEYKKDELLEAARSGNEEKLMALLTPLNVNCHASDGRKSTPLHLAAGYNRVRIVQLLLQHGADVHAKDKGGLVPLHNACSYGHYEVTELLLKHGACVNAMDLWQFTPLHEAASKNRVEVCSLLLSHGADPTLVNCHGKSAVDMAPTPELRERLTYEFKGHSLLQAAREADLAKVKKTLALEIINFKQPQSHETALHCAVASLHPKRKQVTELLLRKGANVNEKNKDFMTPLHVAAERAHNDVMEVLHKHGAKMNALDTLGQTALHRAALAGHLQTCRLLLSYGSDPSIISLQGFTAAQMGNEAVQQILSESTPIRTSDVDYRLLEASKAGDLETVKQLCSSQNVNCRDLEGRHSTPLHFAAGYNRVSVVEYLLHHGADVHAKDKGGLVPLHNACSYGHYEVAELLVRHGASVNVADLWKFTPLHEAAAKGKYEICKLLLKHGADPTKKNRDGNTPLDLVKEGDTDIQDLLRGDAALLDAAKKGCLARVQKLCTPENINCRDTQGRNSTPLHLAAGYNNLEVAEYLLEHGADVNAQDKGGLIPLHNAASYGHVDIAALLIKYNTCVNATDKWAFTPLHEAAQKGRTQLCALLLAHGADPTMKNQEGQTPLDLATADDIRALLIDAMPPEALPTCFKPQATVVSASLISPASTPSCLSAASSIDNLTGPLAELAVGGASNAGDGAAGTERKEGEVAGLDMNISQFLKSLGLEHLRDIFETEQITLDVLADMGHEELKEIGINAYGHRHKLIKGVERLLGGQQGTNPYLTFHCVNQGTILLDLAPEDKEYQSVEEEMQSTIREHRDGGNAGGIFNRYNVIRIQKVVNKKLRERFCHRQKEVSEENHNHHNERMLFHGSPFINAIIHKGFDERHAYIGGMFGAGIYFAENSSKSNQYVYGIGGGTGCPTHKDRSCYICHRQMLFCRVTLGKSFLQFSTMKMAHAPPGHHSVIGRPSVNGLAYAEYVIYRGEQAYPEYLITYQIMKPEAPSQTATAAEQKT |
| 4642 | sp|P62997|TRA2B\_RAT | MSDSGEQNYGERESRSASRSGSAHGSGKSARHTPARSRSKEDSRRSRSKSRSRSESRSRSRRSSRRHYTRSRSRSRSHRRSRSRSYSRDYRRRHSHSHSPMSTRRRHVGNRANPDPNCCLGVFGLSLYTTERDLREVFSKYGPIADVSIVYDQQSRRSRGFAFVYFENVDDAKEAKERANGMELDGRRIRVDFSITKRPHTPTPGIYMGRPTYGSSRRRDYYDRGYDRGYDDRDYYSRSYRGGGGGGGGWRAAQDRDQIYRRRSPSPYYSRGGYRSRSRSRSYSPRRY |
| 4643 | sp|O75762|TRPA1\_HUMAN | MKRSLRKMWRPGEKKEPQGVVYEDVPDDTEDFKESLKVVFEGSAYGLQNFNKQKKLKRCDDMDTFFLHYAAAEGQIELMEKITRDSSLEVLHEMDDYGNTPLHCAVEKNQIESVKFLLSRGANPNLRNFNMMAPLHIAVQGMNNEVMKVLLEHRTIDVNLEGENGNTAVIIACTTNNSEALQILLKKGAKPCKSNKWGCFPIHQAAFSGSKECMEIILRFGEEHGYSRQLHINFMNNGKATPLHLAVQNGDLEMIKMCLDNGAQIDPVEKGRCTAIHFAATQGATEIVKLMISSYSGSVDIVNTTDGCHETMLHRASLFDHHELADYLISVGADINKIDSEGRSPLILATASASWNIVNLLLSKGAQVDIKDNFGRNFLHLTVQQPYGLKNLRPEFMQMQQIKELVMDEDNDGCTPLHYACRQGGPGSVNNLLGFNVSIHSKSKDKKSPLHFAASYGRINTCQRLLQDISDTRLLNEGDLHGMTPLHLAAKNGHDKVVQLLLKKGALFLSDHNGWTALHHASMGGYTQTMKVILDTNLKCTDRLDEDGNTALHFAAREGHAKAVALLLSHNADIVLNKQQASFLHLALHNKRKEVVLTIIRSKRWDECLKIFSHNSPGNKCPITEMIEYLPECMKVLLDFCMLHSTEDKSCRDYYIEYNFKYLQCPLEFTKKTPTQDVIYEPLTALNAMVQNNRIELLNHPVCKEYLLMKWLAYGFRAHMMNLGSYCLGLIPMTILVVNIKPGMAFNSTGIINETSDHSEILDTTNSYLIKTCMILVFLSSIFGYCKEAGQIFQQKRNYFMDISNVLEWIIYTTGIIFVLPLFVEIPAHLQWQCGAIAVYFYWMNFLLYLQRFENCGIFIVMLEVILKTLLRSTVVFIFLLLAFGLSFYILLNLQDPFSSPLLSIIQTFSMMLGDINYRESFLEPYLRNELAHPVLSFAQLVSFTIFVPIVLMNLLIGLAVGDIAEVQKHASLKRIAMQVELHTSLEKKLPLWFLRKVDQKSTIVYPNKPRSGGMLFHIFCFLFCTGEIRQEIPNADKSLEMEILKQKYRLKDLTFLLEKQHELIKLIIQKMEIISETEDDDSHCSFQDRFKKEQMEQRNSRWNTVLRAVKAKTHHLEP |
| 4644 | sp|F4J8D3|TPLAT\_ARATH | MDILFAQIQADLRSNDALRQSSALLQALQQSAAGRDISVIAKSAVEEIVASPASAVCKKLAFDLIRSTRLTPDLWDTVCSGVKTDLHFPDPDVTAAAVSILAALPAFSLPKLISDCSSEIASCFDSPSDNLRFSITETLGCILARDDLVTLCENNVGLLDKVSNWWARIGQNMLDKSDAVSKVAFESVGRLFQEFDSKRMSRLAGDKLVDSENSLAIRSKWVSSMVDIVWRKRSALMARSLVLPVETFRATVFPLVFAVKAVASGSVEVIRQLSKASSAAAAANATVVDSNAEKLVGVSDLVTHLAPFLASSLDPALIFEVGINMLYLADVAGGKPEWASQSIIAILTLWDRQEFSSARESIVRAVVTNLHLLDLHMQVSLFRRLLLMVRNLRAESDRMHALACICRTALCVHLFARESARRGQKPLPGTDIISLFEDARIKDDLNSVTSKSLFREELVAMLVESCFQLSLPLPEQKNSGMESRVIGALAYGTGYGALNWTEPALEVVEVCRPCVKWDCDGRTYAVDCYLKLLVRLCHIYDTRGGVKRLKDGASQDQILNETRLQNLQRELVKDLQEVNTPRILGRLIWTIAEHIDLEGLDPLLADDPDDPLNIIIANIHKVLFNLDAAATTSNRLQDVQAVLLCAQRMGSRHARAGQLLTKELEEYRNHAAADTVSKHQTRLILQRIKYVSNLPERKWAGVSETRGDYPFSHHKLTVQFYEPSAAQDRKLEGLIHKAILELWRPKPTELTLFLTKGVDSTSIKVPPTAYPLTGSSDPCYIEAYHLADTNDGRVTLHLKIINLTELELNRVDIRVGLSGALYFMDGSPQAVRQLRNLVSQDPVQCSVTVGVSQFERCGFWVQVLYYPFRGARGEYDGDYIEEDPQIMKQKRGSKAELGEPVILRCQPYKIPLTELLLPHKISPVEFFRLWPSLPAVAEYTGTYMYEGSGFMATAAQQYGASPFLSGLKSLSSKPFHRVCSHIIRTVAGFQLCYAAKTWHGGFVGMMIFGASEVSRNMDLGDETTTMMCKFVVRASEASITKQIESDIQGWCDDLTDGGVEYMPEDEVKATAAEKLKISMERIALLKAAQPKKTSKIEEESENEEEEEGEEEDDDEEVKEKKEKEEGKDKEEKKKKEKEKGTFSKLTAEETEHMALQAAVLQEWHILCKDRKYTKVN |
| 4645 | sp|O00220|TR10A\_HUMAN | MAPPPARVHLGAFLAVTPNPGSAASGTEAAAATPSKVWGSSAGRIEPRGGGRGALPTSMGQHGPSARARAGRAPGPRPAREASPRLRVHKTFKFVVVGVLLQVVPSSAATIKLHDQSIGTQQWEHSPLGELCPPGSHRSEHPGACNRCTEGVGYTNASNNLFACLPCTACKSDEEERSPCTTTRNTACQCKPGTFRNDNSAEMCRKCSRGCPRGMVKVKDCTPWSDIECVHKESGNGHNIWVILVVTLVVPLLLVAVLIVCCCIGSGCGGDPKCMDRVCFWRLGLLRGPGAEDNAHNEILSNADSLSTFVSEQQMESQEPADLTGVTVQSPGEAQCLLGPAEAEGSQRRRLLVPANGADPTETLMLFFDKFANIVPFDSWDQLMRQLDLTKNEIDVVRAGTAGPGDALYAMLMKWVNKTGRNASIHTLLDALERMEERHAREKIQDLLVDSGKFIYLEDGTGSAVSLE |
| 4646 | sp|Q13114|TRAF3\_HUMAN | MESSKKMDSPGALQTNPPLKLHTDRSAGTPVFVPEQGGYKEKFVKTVEDKYKCEKCHLVLCSPKQTECGHRFCESCMAALLSSSSPKCTACQESIVKDKVFKDNCCKREILALQIYCRNESRGCAEQLMLGHLLVHLKNDCHFEELPCVRPDCKEKVLRKDLRDHVEKACKYREATCSHCKSQVPMIALQKHEDTDCPCVVVSCPHKCSVQTLLRSELSAHLSECVNAPSTCSFKRYGCVFQGTNQQIKAHEASSAVQHVNLLKEWSNSLEKKVSLLQNESVEKNKSIQSLHNQICSFEIEIERQKEMLRNNESKILHLQRVIDSQAEKLKELDKEIRPFRQNWEEADSMKSSVESLQNRVTELESVDKSAGQVARNTGLLESQLSRHDQMLSVHDIRLADMDLRFQVLETASYNGVLIWKIRDYKRRKQEAVMGKTLSLYSQPFYTGYFGYKMCARVYLNGDGMGKGTHLSLFFVIMRGEYDALLPWPFKQKVTLMLMDQGSSRRHLGDAFKPDPNSSSFKKPTGEMNIASGCPVFVAQTVLENGTYIKDDTIFIKVIVDTSDLPDP |
| 4647 | sp|Q5GJ60|TPS6\_MAIZE | MAAPTLTADGPRLGQQEMKKMSPSFHPTLWGDFFLSYEAPTEAQEAQMREKAAVLKEEVRNMIKGSHDVPEIVDLIITLQRLNLDYHYEDEINEKLTVVYKSNYDGGNLDLVSRRFYLLRKCGYDVSSDVFLKFKDQLGNFVEADTRSLLSLYNAAFLRIHGETVLDEAISFTMRVLQDRLEHLESPLAEEVSSALDTPLFRRVGTLEMKDYIPIYEKDAKQNKSILEFAKLNFNLLQLRYSSELKECTTWWKELRVESNLSFVRDRIVEVYFWMSGGCYDPQYSHSRIILTKIVAFITILDDTLDSHATSCESMQLAEAIERWDESAVSLLPEYMKDFYMYLLKTFSSFENELGPDKSYRVFYLKEAVKELVREYTKEIKWRDEDYVPKTLKEHLKVSLISIGGTLVLCSAFVGMGDVVTKKIMKWVMSDAELVKSFGIFVRLSNDIVSTKREQREKHCVSTVQCYMKQHEITMDEACEQIKELTEDSWKFMIEQGLALKEYPIIVPRTVLEFARTVDYMYKEADKYTVSHTIKDMLTSLYVKPVLM |
| 4648 | sp|P0DSE2|TRBR1\_HUMAN | MSNQVLCCVVLCLLGANTVDGGITQSPKYLFRKEGQNVTLSCEQNLNHDAMYWYRQDPGQGLRLIYYSQIVNDFQKGDIAEGYSVSREKKESFPLTVTSAQKNPTAFYLCASSIRSSYEQYFGPGTRLTVTEDLKNVFPPKVAVFEPSEAEISHTQKATLVCLATGFYPDHVELSWWVNGKEVHSGVSTDPQPLKEQPALNDSRYCLSSRLRVSATFWQNPRNHFRCQVQFYGLSENDEWTQDRAKPVTQIVSAEAWGRADCGFTSESYQQGVLSATILYEILLGKATLYAVLVSALVLMAMVKRKDSRG |
| 4649 | sp|P07799|TOP1\_SCHPO | MSSSDSDSVSLSIRRRQRRGSSKRISMKESDEESDSSENHPLSESLNKKSKSESDEDDIPIRKRRASSKKNMSNSSSKKRAKVMGNGGLKNGKKTAVVKEEEDFNEIAKPSPKHKRVSKANGSKNGAKSAVKKEESDTDDSVPLRAVSTVSLTPYKSELPSGASTTQNRSPNDEEDEDEDYKWWTSENIDDTQKWTTLEHNGVIFAPPYEPLPKNVKLIYDGNPVNLPPEAEEVAGFYAAMLETDHAKNPVFQDNFFRDFLKVCDECNFNHNIKEFSKCDFTQMFHHFEQKREEKKSMPKEQKKAIKQKKDEEEEKYKWCILDGRKEKVGNFRIEPPGLFRGRGSHPKTGSLKRRVYPEQITINIGEGVPVPEPLPGHQWAEVKHDNTVTWLATWHENINNNVKYVFLAAGSSLKGQSDLKKYEKSRKLKDYIDDIRKGYRKDLKSELTVERQRGTAMYLIDVFALRAGNEKGEDEADTVGCCSLRYEHVTLKPPRTVVFDFLGKDSIRYYNEVEVDPQVFKNLKIFKRPPKKEGDLIFDRLSTNSLNKYLTSLMDGLSAKVFRTYNASYTMAEELKKMPKNLTLADKILFYNRANRTVAILCNHQRSVTKNHDVQMERFAERIKALQYQRMRLRKMMLNLEPKLAKSKPELLAKEEGITDSWIVKHHETLYELEKEKIKKKFDRENEKLAAEDPKSVLPESELEVRLKAADELKKALDAELKSKKVDPGRSSMEQLEKRLNKLNERINVMRTQMIDKDENKTTALGTSKINYIDPRLTYSFSKREDVPIEKLFSKTIRDKFNWAADTPPDWKW |
| 4650 | sp|P55144|TYRO3\_MOUSE | MALRRSMGWPGLRPLLLAGLASLLLPGSAAAGLKLMGAPVKMTVSQGQPVKLNCSVEGMEDPDIHWMKDGTVVQNASQVSISISEHSWIGLLSLKSVERSDAGLYWCQVKDGEETKISQSVWLTVEGVPFFTVEPKDLAVPPNAPFQLSCEAVGPPEPVTIYWWRGLTKVGGPAPSPSVLNVTGVTQRTEFSCEARNIKGLATSRPAIVRLQAPPAAPFNTTVTTISSYNASVAWVPGADGLALLHSCTVQVAHAPGEWEALAVVVPVPPFTCLLRNLAPATNYSLRVRCANALGPSPYGDWVPFQTKGLAPARAPQNFHAIRTDSGLILEWEEVIPEDPGEGPLGPYKLSWVQENGTQDELMVEGTRANLTDWDPQKDLILRVCASNAIGDGPWSQPLVVSSHDHAGRQGPPHSRTSWVPVVLGVLTALITAAALALILLRKRRKETRFGQAFDSVMARGEPAVHFRAARSFNRERPERIEATLDSLGISDELKEKLEDVLIPEQQFTLGRMLGKGEFGSVREAQLKQEDGSFVKVAVKMLKADIIASSDIEEFLREAACMKEFDHPHVAKLVGVSLRSRAKGRLPIPMVILPFMKHGDLHAFLLASRIGENPFNLPLQTLVRFMVDIACGMEYLSSRNFIHRDLAARNCMLAEDMTVCVADFGLSRKIYSGDYYRQGCASKLPVKWLALESLADNLYTVHSDVWAFGVTMWEIMTRGQTPYAGIENAEIYNYLIGGNRLKQPPECMEEVYDLMYQCWSADPKQRPSFTCLRMELENILGHLSVLSTSQDPLYINIERAEQPTESGSPEVHCGERSSSEAGDGSGVGAVGGIPSDSRYIFSPGGLSESPGQLEQQPESPLNENQRLLLLQQGLLPHSSC |
| 4651 | sp|O75386|TULP3\_HUMAN | MEASRCRLSPSGDSVFHEEMMKMRQAKLDYQRLLLEKRQRKKRLEPFMVQPNPEARLRRAKPRASDEQTPLVNCHTPHSNVILHGIDGPAAVLKPDEVHAPSVSSSVVEEDAENTVDTASKPGLQERLQKHDISESVNFDEETDGISQSACLERPNSASSQNSTDTGTSGSATAAQPADNLLGDIDDLEDFVYSPAPQGVTVRCRIIRDKRGMDRGLFPTYYMYLEKEENQKIFLLAARKRKKSKTANYLISIDPVDLSREGESYVGKLRSNLMGTKFTVYDRGICPMKGRGLVGAAHTRQELAAISYETNVLGFKGPRKMSVIIPGMTLNHKQIPYQPQNNHDSLLSRWQNRTMENLVELHNKAPVWNSDTQSYVLNFRGRVTQASVKNFQIVHKNDPDYIVMQFGRVADDVFTLDYNYPLCAVQAFGIGLSSFDSKLACE |
| 4652 | sp|P11344|TYRO\_MOUSE | MFLAVLYCLLWSFQISDGHFPRACASSKNLLAKECCPPWMGDGSPCGQLSGRGSCQDILLSSAPSGPQFPFKGVDDRESWPSVFYNRTCQCSGNFMGFNCGNCKFGFGGPNCTEKRVLIRRNIFDLSVSEKNKFFSYLTLAKHTISSVYVIPTGTYGQMNNGSTPMFNDINIYDLFVWMHYYVSRDTLLGGSEIWRDIDFAHEAPGFLPWHRLFLLLWEQEIRELTGDENFTVPYWDWRDAENCDICTDEYLGGRHPENPNLLSPASFFSSWQIICSRSEEYNSHQVLCDGTPEGPLLRNPGNHDKAKTPRLPSSADVEFCLSLTQYESGSMDRTANFSFRNTLEGFASPLTGIADPSQSSMHNALHIFMNGTMSQVQGSANDPIFLLHHAFVDSIFEQWLRRHRPLLEVYPEANAPIGHNRDSYMVPFIPLYRNGDFFITSKDLGYDYSYLQESDPGFYRNYIEPYLEQASRIWPWLLGAALVGAVIAAALSGLSSRLCLQKKKKKKQPQEERQPLLMDKDDYHSLLYQSHL |
| 4653 | sp|Q9P2J2|TUTLA\_HUMAN | MVWCLGLAVLSLVISQGADGRGKPEVVSVVGRAGESVVLGCDLLPPAGRPPLHVIEWLRFGFLLPIFIQFGLYSPRIDPDYVGRVRLQKGASLQIEGLRVEDQGWYECRVFFLDQHIPEDDFANGSWVHLTVNSPPQFQETPPAVLEVQELEPVTLRCVARGSPLPHVTWKLRGKDLGQGQGQVQVQNGTLRIRRVERGSSGVYTCQASSTEGSATHATQLLVLGPPVIVVPPKNSTVNASQDVSLACHAEAYPANLTYSWFQDNINVFHISRLQPRVRILVDGSLRLLATQPDDAGCYTCVPSNGLLHPPSASAYLTVLYPAQVTAMPPETPLPIGMPGVIRCPVRANPPLLFVSWTKDGKALQLDKFPGWSQGTEGSLIIALGNEDALGEYSCTPYNSLGTAGPSPVTRVLLKAPPAFIERPKEEYFQEVGRELLIPCSAQGDPPPVVSWTKVGRGLQGQAQVDSNSSLILRPLTKEAHGHWECSASNAVARVATSTNVYVLGTSPHVVTNVSVVALPKGANVSWEPGFDGGYLQRFSVWYTPLAKRPDRMHHDWVSLAVPVGAAHLLVPGLQPHTQYQFSVLAQNKLGSGPFSEIVLSAPEGLPTTPAAPGLPPTEIPPPLSPPRGLVAVRTPRGVLLHWDPPELVPKRLDGYVLEGRQGSQGWEVLDPAVAGTETELLVPGLIKDVLYEFRLVAFAGSFVSDPSNTANVSTSGLEVYPSRTQLPGLLPQPVLAGVVGGVCFLGVAVLVSILAGCLLNRRRAARRRRKRLRQDPPLIFSPTGKSAAPSALGSGSPDSVAKLKLQGSPVPSLRQSLLWGDPAGTPSPHPDPPSSRGPLPLEPICRGPDGRFVMGPTVAAPQERSGREQAEPRTPAQRLARSFDCSSSSPSGAPQPLCIEDISPVAPPPAAPPSPLPGPGPLLQYLSLPFFREMNVDGDWPPLEEPSPAAPPDYMDTRRCPTSSFLRSPETPPVSPRESLPGAVVGAGATAEPPYTALADWTLRERLLPGLLPAAPRGSLTSQSSGRGSASFLRPPSTAPSAGGSYLSPAPGDTSSWASGPERWPRREHVVTVSKRRNTSVDENYEWDSEFPGDMELLETLHLGLASSRLRPEAEPELGVKTPEEGCLLNTAHVTGPEARCAALREEFLAFRRRRDATRARLPAYRQPVPHPEQATLL |
| 4654 | sp|Q9ZQ94|U73C5\_ARATH | MVSETTKSSPLHFVLFPFMAQGHMIPMVDIARLLAQRGVIITIVTTPHNAARFKNVLNRAIESGLPINLVQVKFPYLEAGLQEGQENIDSLDTMERMIPFFKAVNFLEEPVQKLIEEMNPRPSCLISDFCLPYTSKIAKKFNIPKILFHGMGCFCLLCMHVLRKNREILDNLKSDKELFTVPDFPDRVEFTRTQVPVETYVPAGDWKDIFDGMVEANETSYGVIVNSFQELEPAYAKDYKEVRSGKAWTIGPVSLCNKVGADKAERGNKSDIDQDECLKWLDSKKHGSVLYVCLGSICNLPLSQLKELGLGLEESQRPFIWVIRGWEKYKELVEWFSESGFEDRIQDRGLLIKGWSPQMLILSHPSVGGFLTHCGWNSTLEGITAGLPLLTWPLFADQFCNEKLVVEVLKAGVRSGVEQPMKWGEEEKIGVLVDKEGVKKAVEELMGESDDAKERRRRAKELGDSAHKAVEEGGSSHSNISFLLQDIMELAEPNN |
| 4655 | sp|P35442|TSP2\_HUMAN | MVWRLVLLALWVWPSTQAGHQDKDTTFDLFSISNINRKTIGAKQFRGPDPGVPAYRFVRFDYIPPVNADDLSKITKIMRQKEGFFLTAQLKQDGKSRGTLLALEGPGLSQRQFEIVSNGPADTLDLTYWIDGTRHVVSLEDVGLADSQWKNVTVQVAGETYSLHVGCDLIDSFALDEPFYEHLQAEKSRMYVAKGSARESHFRGLLQNVHLVFENSVEDILSKKGCQQGQGAEINAISENTETLRLGPHVTTEYVGPSSERRPEVCERSCEELGNMVQELSGLHVLVNQLSENLKRVSNDNQFLWELIGGPPKTRNMSACWQDGRFFAENETWVVDSCTTCTCKKFKTICHQITCPPATCASPSFVEGECCPSCLHSVDGEEGWSPWAEWTQCSVTCGSGTQQRGRSCDVTSNTCLGPSIQTRACSLSKCDTRIRQDGGWSHWSPWSSCSVTCGVGNITRIRLCNSPVPQMGGKNCKGSGRETKACQGAPCPIDGRWSPWSPWSACTVTCAGGIRERTRVCNSPEPQYGGKACVGDVQERQMCNKRSCPVDGCLSNPCFPGAQCSSFPDGSWSCGSCPVGFLGNGTHCEDLDECALVPDICFSTSKVPRCVNTQPGFHCLPCPPRYRGNQPVGVGLEAAKTEKQVCEPENPCKDKTHNCHKHAECIYLGHFSDPMYKCECQTGYAGDGLICGEDSDLDGWPNLNLVCATNATYHCIKDNCPHLPNSGQEDFDKDGIGDACDDDDDNDGVTDEKDNCQLLFNPRQADYDKDEVGDRCDNCPYVHNPAQIDTDNNGEGDACSVDIDGDDVFNERDNCPYVYNTDQRDTDGDGVGDHCDNCPLVHNPDQTDVDNDLVGDQCDNNEDIDDDGHQNNQDNCPYISNANQADHDRDGQGDACDPDDDNDGVPDDRDNCRLVFNPDQEDLDGDGRGDICKDDFDNDNIPDIDDVCPENNAISETDFRNFQMVPLDPKGTTQIDPNWVIRHQGKELVQTANSDPGIAVGFDEFGSVDFSGTFYVNTDRDDDYAGFVFGYQSSSRFYVVMWKQVTQTYWEDQPTRAYGYSGVSLKVVNSTTGTGEHLRNALWHTGNTPGQVRTLWHDPRNIGWKDYTAYRWHLTHRPKTGYIRVLVHEGKQVMADSGPIYDQTYAGGRLGLFVFSQEMVYFSDLKYECRDI |
| 4656 | sp|O95858|TSN15\_HUMAN | MPRGDSEQVRYCARFSYLWLKFSLIIYSTVFWLIGALVLSVGIYAEVERQKYKTLESAFLAPAIILILLGVVMFMVSFIGVLASLRDNLYLLQAFMYILGICLIMELIGGVVALTFRNQTIDFLNDNIRRGIENYYDDLDFKNIMDFVQKKFKCCGGEDYRDWSKNQYHDCSAPGPLACGVPYTCCIRNTTEVVNTMCGYKTIDKERFSVQDVIYVRGCTNAVIIWFMDNYTIMAGILLGILLPQFLGVLLTLLYITRVEDIIMEHSVTDGLLGPGAKPSVEAAGTGCCLCYPN |
| 4657 | sp|P04818|TYSY\_HUMAN | MPVAGSELPRRPLPPAAQERDAEPRPPHGELQYLGQIQHILRCGVRKDDRTGTGTLSVFGMQARYSLRDEFPLLTTKRVFWKGVLEELLWFIKGSTNAKELSSKGVKIWDANGSRDFLDSLGFSTREEGDLGPVYGFQWRHFGAEYRDMESDYSGQGVDQLQRVIDTIKTNPDDRRIIMCAWNPRDLPLMALPPCHALCQFYVVNSELSCQLYQRSGDMGLGVPFNIASYALLTYMIAHITGLKPGDFIHTLGDAHIYLNHIEPLKIQLQREPRPFPKLRILRKVEKIDDFKAEDFQIEGYNPHPTIKMEMAV |
| 4658 | sp|Q9Z0J5|TRXR2\_RAT | MAAIVAALRGSSGRFRPQTRVLTRGTRGAAGAASAAGGQQNFDLLVIGGGSGGLACAKEAAQLGRKVAVADYVEPSPRGTKWGLGGTCVNVGCIPKKLMHQAALLGGMIRDAQHYGWEVAQPVQHNWKAMAEAVQNHVKSLNWGHRVQLQDRKVKYFNIKASFVNEHTVHGVDKAGKVTQLSAKHIVIATGGRPKYPTQVKGALEHGITSDDIFWLKESPGKTLVVGASYVALECAGFLTGIGLDTTVMMRSVPLRGFDQQMASLVTEHMESHGTRFLKGCVPSLIRKLPTNQLQVTWEDLASGKEDVGTFDTVLWAIGRVPETRNLNLEKAGVNTNPKNQKIIVDAQEATSVPHIYAIGDVAEGRPELTPTAIKAGKLLAQRLFGKSSTLMNYSNVPTTVFTPLEYGCVGLSEEEAVALHGQEHIEVYHAYYKPLEFTVADRDASQCYIKMVCMREPPQLVLGLHFLGPNAGEVTQGFALGIQCGASYAQVMQTVGIHPTCSEEVVKLHISKRSGLDPTVTGCUG |
| 4659 | sp|Q91V51|TTLL1\_MOUSE | MAGRVKWVTDIEKSVLINNFEKRGWIQVTENEDWNFYWMSVQTIRNVFSVETGYRLSDDQIVNHFPNHYELTRKDLMVKNIKRYRKELEKEGSPLAEKDENGKYLYLDFVPVTYMLPADYNLFVEEFRKSPSSTWIMKPCGKAQGKGIFLINKLSQIKKWSRDSKTSSFVSQSTKEAYVISVYINNPLLIGGRKFDLRLYVLVSTYRPLRCYMYKLGFCRFCTVKYTPSTSELDNMFVHLTNVAIQKHGEDYNHIHGGKWTVNNLRLYLESTRGREVTSKLFDEIHWIIVQSLKAVAPVMNNDKHCFECYGYDIIIDDKLKPWLIEVNASPSLTSSTANDRILKYNLINDTLNIAVPNGEIPDCKWNKSPPKEVLGNYEILYDEELAQGDGAERELRNRPGQPVGPRAGRSRDSGRSVLTTWK |
| 4660 | sp|Q925K9|TSSK6\_MOUSE | MSGDKLLSELGYKLGRTIGEGSYSKVKVATSKKYKGTVAIKVVDRRRAPPDFVNKFLPRELSILRGVRHPHIVHVFEFIEVCNGKLYIVMEAAATDLLQAVQRNGRIPGSQARELFSQIAGAVRYLHDHHLVHRDLKCENVLLSPDERRVKITDFGFGRQAHGYPDLSTTYCGSAAYASPEVLLGIPYDPKKYDVWSLGVVLYVMVTGCMPFDDSDIAGLPRRQKRGVLYPDGLELSERCKSLIAELLQFSPSARPSAGQVARNGWLRAGDSG |
| 4661 | sp|Q6PGP7|TTC37\_HUMAN | MSSKEVKTALKSARDAIRNKEYKEALKHCKTVLKQEKNNYNAWVFIGVAAAELEQPDQAQSAYKKAAELEPDQLLAWQGLANLYEKYNHINAKDDLPGVYQKLLDLYESVDKQKWCDVCKKLVDLYYQEKKHLEVARTWHKLIKTRQEQGAENEELHQLWRKLTQFLAESTEDQNNETQQLLFTAFENALGLSDKIPSEDHQVLYRHFIQSLSKFPHESARLKKACEGMINIYPTVQYPLEVLCLHLIESGNLTDEGQQYCCRLVEMDSKSGPGLIGLGIKALQDKKYEDAVRNLTEGLKESPVCTSGWYHLAEAQVKMHRPKEAVLSCSQALKIVDNLGASGNSLYQRNLCLHLKAEALIKLSDYDSSEEAIRTLDQISDADNIPGLLVLKSLAYRNKGSFDEAAKIMEDLLSSYPDLAEVHALEALIHFTKKDYLQAEKCFQRALEKDTEVAEYHYQLGLTYWFMGEETRKDKTKALTHFLKAARLDTYMGKVFCYLGHYYRDVVGDKNRARGCYRKAFELDDTDAESGAAAVDLSVELEDMEMALAILTTVTQKASAGTAKWAWLRRGLYYLKAGQHSQAVADLQAALRADPKDFNCWESLGEAYLSRGGYTTALKSFTKASELNPESIYSVFKVAAIQQILGKYKEAVAQYQMIIKKKEDYVPALKGLGECHLMMAKAALVDYLDGKAVDYIEKALEYFTCALQHRADVSCLWKLAGDACTCLYAVAPSKVNVHVLGVLLGQKEGKQVLKKNELLHLGGRCYGRALKLMSTSNTWCDLGINYYRQAQHLAETGSNMNDLKELLEKSLHCLKKAVRLDSNNHLYWNALGVVACYSGIGNYALAQHCFIKSIQSEQINAVAWTNLGVLYLTNENIEQAHEAFKMAQSLDPSYLMCWIGQALIAEAVGSYDTMDLFRHTTELNMHTEGALGYAYWVCTTLQDKSNRETELYQYNILQMNAIPAAQVILNKYVERIQNYAPAFTMLGYLNEHLQLKKEAANAYQRAILLLQTAEDQDTYNVAIRNYGRLLCSTGEYDKAIQAFKSTPLEVLEDIIGFALALFMKGLYKESSKAYERALSIVESEQDKAHILTALAITEYKQGKTDVAKTLLFKCSILKEPTTESLQALCALGLAMQDATLSKAALNELLKHIKHKDSNYQRCLLTSAIYALQGRSVAVQKQISKAVHSNPGDPALWSLLSRVVAQYAQRNAKGGVVAGNVAHILDSNHGKKALLYTAVNQLAMGSSSAEDEKNTALKTIQKAALLSPGDPAIWAGLMAACHADDKLALVNNTQPKRIDLYLALLSAVSASIKDEKFFENYNQSLEKWSLSQAVTGLIDTGRISEAETLCTKNLKSNPDQPAVILLLRQVQCKPLLESQKPLPDAVLEELQKTVMSNSTSVPAWQWLAHVYQSQGMMRAAEMCYRKSLQLASQRGSWSGKLSSLLRLALLALKVCMANISNDHWPSLVQEATTEALKLCFCPLAVLLQALLQFKRKMGARETRRLLERVVYQPGYPKSIASTARWYLLRHLYAKDDYELIDVLVNNAKTHGDTRALELNQRLSSQ |
| 4662 | sp|A4Q9E8|TTLL6\_MOUSE | MLQCLTSESEEGAEEREESSTEDLEELKEFVTLAFVRENTQKRLQNAQQHGKKKRKKKRLVINLSNCRYDSVRRAAQQYGLREAGDNDDWTLYWTDYSVSLERVMEMKSYQKINHFPGMSEICRKDLLARNMSRMLKLFPKDFHFFPRTWCLPADWGDLQTYSRTRKNKTYICKPDSGCQGRGIFITRSVKEIKPGEDMICQLYISKPFIIDGFKFDLRVYVLVTSCDPLRVFVYNEGLARFATTSYSHPNLDNLDEICMHLTNYSINKHSSNFVQDAFSGSKRKLSTFNSYMKTHGYDVEQIWRGIEDVIIKTLISAHPVIKHNYHTCFPSHTLNSACFEILGFDILLDRKLKPWLLEVNHSPSFSTDSKLDKEVKDSLLYDALVLINLGNCDKKKVLEEERQRGRFLQQCPNREIRLEEVKGFQAMRLQKTEEYEKKNCGGFRLIYPGLNLEKYDKFFQDNSSLFQNTVASRARELYARQLIQELRQKQEKKVFLKKARKEETQGESAGEQARDKVVRLQRQRQQPKCKTVATCPPKQSLHPVTLVSCTSGLLLNIRGLKKGEISESLEQKDTKEAMLIPCKPVSARNYSSVPDLRSANPSCFEPEFHVPNAKVKEVKSAFMVNIESTAQPITSVESSRDATAPISTSLESLASMSLSTSPECSSPESVHMVSYNHKQQKASFHKPMQEKKSKPLMFSKSRHLDLNCTSMKNDINRQYLMSEILQKVQMKKKRPLFPAPKSQYPTLSKERCPHSRSSSRKKEMNSPSVFVLQASHSRAESLNDLLVVATQARLDPRPSRSHSGTTTRDSSTQDPKHTATA |
| 4663 | sp|Q9W6H5|UBC9A\_DANRE | MSGIALSRLAQERKAWRKDHPFGFVAVPMKNPDGTMNLMNWECAIPGKKGTPWEGGLFKLRMLFKDDYPSSPPKCKFEPPLFHPNVYPSGTVCLSILEEDKDWRPAITIKQILLGIQELLNEPNIQDPAQAEAYTIYCQNRVEYEKRVRAQAKKFSPS |
| 4664 | sp|P07478|TRY2\_HUMAN | MNLLLILTFVAAAVAAPFDDDDKIVGGYICEENSVPYQVSLNSGYHFCGGSLISEQWVVSAGHCYKSRIQVRLGEHNIEVLEGNEQFINAAKIIRHPKYNSRTLDNDILLIKLSSPAVINSRVSAISLPTAPPAAGTESLISGWGNTLSSGADYPDELQCLDAPVLSQAECEASYPGKITNNMFCVGFLEGGKDSCQGDSGGPVVSNGELQGIVSWGYGCAQKNRPGVYTKVYNYVDWIKDTIAANS |
| 4665 | sp|Q9H3M7|TXNIP\_HUMAN | MVMFKKIKSFEVVFNDPEKVYGSGEKVAGRVIVEVCEVTRVKAVRILACGVAKVLWMQGSQQCKQTSEYLRYEDTLLLEDQPTGENEMVIMRPGNKYEYKFGFELPQGPLGTSFKGKYGCVDYWVKAFLDRPSQPTQETKKNFEVVDLVDVNTPDLMAPVSAKKEKKVSCMFIPDGRVSVSARIDRKGFCEGDEISIHADFENTCSRIVVPKAAIVARHTYLANGQTKVLTQKLSSVRGNHIISGTCASWRGKSLRVQKIRPSILGCNILRVEYSLLIYVSVPGSKKVILDLPLVIGSRSGLSSRTSSMASRTSSEMSWVDLNIPDTPEAPPCYMDVIPEDHRLESPTTPLLDDMDGSQDSPIFMYAPEFKFMPPPTYTEVDPCILNNNVQ |
| 4666 | sp|O43914|TYOBP\_HUMAN | MGGLEPCSRLLLLPLLLAVSGLRPVQAQAQSDCSCSTVSPGVLAGIVMGDLVLTVLIALAVYFLGRLVPRGRGAAEAATRKQRITETESPYQELQGQRSDVYSDLNTQRPYYK |
| 4667 | sp|J7GQ11|TYRDC\_LACBR | MEKSNRSLKDLDLNALFIGDKAENGQLYKDLLNKLVDEHLGWRKNYIPSDPNMIGPEDQNSPAFKKTVGHMKTVLDQLSERIRTESVPWHSAGRYWGHMNSETLMPALLAYNYAMLWNGNNVAYESSPATSQMEEEVGQEFARLMGYDYGWGHIVADGSLANLEGLWYARNIKSLPFAMKEVNPELVAGKSDWELLNMPTKEIMDLLENAGSQIDEVKKRSARSGKNLQRLGKWLVPQTKHYSWMKAADIIGIGLDQVVPVPIDSNYRMDIQALESIIRKYAAEKTPILGVVGVAGSTEEGAVDGIDKIVALRQKLQKEGIYFYLHVDAAYGGYARALFLDEDDQFIPYKNLQKVHAENHVFTEDKEYIKPEVYAAYKAFDQAESITIDPHKMGYVPYSAGGIVIQDIRMRDTISYFATYVFEKGADIPALLGAYILEGSKAGATAASVWAAHHTLPLNVTGYGKLEGASIEGAHRYYDFLKNLKFEVAGKRISVHPLISPDFNMVDYVLKEDGNDDLIEMNRLNHAFYEQASYVKGSLYGKEYIVSHTDFAIPDYGDSPLAFVESLGFSEVEWRHAGKVTIIRASVMTPYMNQRENFDYFAPRIKKAIQADLEKVYASVNQKENV |
| 4668 | sp|P19971|TYPH\_HUMAN | MAALMTPGTGAPPAPGDFSGEGSQGLPDPSPEPKQLPELIRMKRDGGRLSEADIRGFVAAVVNGSAQGAQIGAMLMAIRLRGMDLEETSVLTQALAQSGQQLEWPEAWRQQLVDKHSTGGVGDKVSLVLAPALAACGCKVPMISGRGLGHTGGTLDKLESIPGFNVIQSPEQMQVLLDQAGCCIVGQSEQLVPADGILYAARDVTATVDSLPLITASILSKKLVEGLSALVVDVKFGGAAVFPNQEQARELAKTLVGVGASLGLRVAAALTAMDKPLGRCVGHALEVEEALLCMDGAGPPDLRDLVTTLGGALLWLSGHAGTQAQGAARVAAALDDGSALGRFERMLAAQGVDPGLARALCSGSPAERRQLLPRAREQEELLAPADGTVELVRALPLALVLHELGAGRSRAGEPLRLGVGAELLVDVGQRLRRGTPWLRVHRDGPALSGPQSRALQEALVLSDRAPFAAPSPFAELVLPPQQ |
| 4669 | sp|Q7Z4N2|TRPM1\_HUMAN | MKDSNRCCCGQFTNQHIPPLPSATPSKNEEESKQVETQPEKWSVAKHTQSYPTDSYGVLEFQGGGYSNKAMYIRVSYDTKPDSLLHLMVKDWQLELPKLLISVHGGLQNFEMQPKLKQVFGKGLIKAAMTTGAWIFTGGVSTGVISHVGDALKDHSSKSRGRVCAIGIAPWGIVENKEDLVGKDVTRVYQTMSNPLSKLSVLNNSHTHFILADNGTLGKYGAEVKLRRLLEKHISLQKINTRLGQGVPLVGLVVEGGPNVVSIVLEYLQEEPPIPVVICDGSGRASDILSFAHKYCEEGGIINESLREQLLVTIQKTFNYNKAQSHQLFAIIMECMKKKELVTVFRMGSEGQQDIEMAILTALLKGTNVSAPDQLSLALAWNRVDIARSQIFVFGPHWPPLGSLAPPTDSKATEKEKKPPMATTKGGRGKGKGKKKGKVKEEVEEETDPRKIELLNWVNALEQAMLDALVLDRVDFVKLLIENGVNMQHFLTIPRLEELYNTRLGPPNTLHLLVRDVKKSNLPPDYHISLIDIGLVLEYLMGGAYRCNYTRKNFRTLYNNLFGPKRPKALKLLGMEDDEPPAKGKKKKKKKKEEEIDIDVDDPAVSRFQYPFHELMVWAVLMKRQKMAVFLWQRGEESMAKALVACKLYKAMAHESSESDLVDDISQDLDNNSKDFGQLALELLDQSYKHDEQIAMKLLTYELKNWSNSTCLKLAVAAKHRDFIAHTCSQMLLTDMWMGRLRMRKNPGLKVIMGILLPPTILFLEFRTYDDFSYQTSKENEDGKEKEEENTDANADAGSRKGDEENEHKKQRSIPIGTKICEFYNAPIVKFWFYTISYLGYLLLFNYVILVRMDGWPSLQEWIVISYIVSLALEKIREILMSEPGKLSQKIKVWLQEYWNITDLVAISTFMIGAILRLQNQPYMGYGRVIYCVDIIFWYIRVLDIFGVNKYLGPYVMMIGKMMIDMLYFVVIMLVVLMSFGVARQAILHPEEKPSWKLARNIFYMPYWMIYGEVFADQIDLYAMEINPPCGENLYDEEGKRLPPCIPGAWLTPALMACYLLVANILLVNLLIAVFNNTFFEVKSISNQVWKFQRYQLIMTFHDRPVLPPPMIILSHIYIIIMRLSGRCRKKREGDQEERDRGLKLFLSDEELKRLHEFEEQCVQEHFREKEDEQQSSSDERIRVTSERVENMSMRLEEINERETFMKTSLQTVDLRLAQLEELSNRMVNALENLAGIDRSDLIQARSRASSECEATYLLRQSSINSADGYSLYRYHFNGEELLFEDTSLSTSPGTGVRKKTCSFRIKEEKDVKTHLVPECQNSLHLSLGTSTSATPDGSHLAVDDLKNAEESKLGPDIGISKEDDERQTDSKKEETISPSLNKTDVIHGQDKSDVQNTQLTVETTNIEGTISYPLEETKITRYFPDETINACKTMKSRSFVYSRGRKLVGGVNQDVEYSSITDQQLTTEWQCQVQKITRSHSTDIPYIVSEAAVQAEHKEQFADMQDEHHVAEAIPRIPRLSLTITDRNGMENLLSVKPDQTLGFPSLRSKSLHGHPRNVKSIQGKLDRSGHASSVSSLVIVSGMTAEEKKVKKEKASTETEC |
| 4670 | sp|Q9ERZ8|TRPV4\_RAT | MADPGDGPRAAPGDVAEPPGDESGTSGGEAFPLSSLANLFEGEEGSSSLSPVDASRPAGPGDGRPNLRMKFQGAFRKGVPNPIDLLESTLYESSVVPGPKKAPMDSLFDYGTYRHHPSDNKRWRRKVVEKQPQSPKAPAPQPPPILKVFNRPILFDIVSRGSTADLDGLLSYLLTHKKRLTDEEFREPSTGKTCLPKALLNLSNGRNDTIPVLLDIAERTGNMREFINSPFRDIYYRGQTALHIAIERRCKHYVELLVAQGADVHAQARGRFFQPKDEGGYFYFGELPLSLAACTNQPHIVNYLTENPHKKADMRRQDSRGNTVLHALVAIADNTRENTKFVTKMYDLLLLKCSRLFPDSNLETVLNNDGLSPLMMAAKTGKIGVFQHIIRREVTDEDTRHLSRKFKDWAYGPVYSSLYDLSSLDTCGEEVSVLEILVYNSKIENRHEMLAVEPINELLRDKWRKFGAVSFYINVVSYLCAMVIFTLTAYYQPLEGTPPYPYRTTVDYLRLAGEVITLLTGVLFFFTSIKDLFMKKCPGVNSLFVDGSFQLLYFIYSVLVVVSAALYLAGIEAYLAVMVFALVLGWMNALYFTRGLKLTGTYSIMIQKILFKDLFRFLLVYLLFMIGYASALVTLLNPCTNMKVCNEDQSNCTVPSYPACRDSETFSAFLLDLFKLTIGMGDLEMLSSAKYPVVFILLLVTYIILTFVLLLNMLIALMGETVGQVSKESKHIWKLQWATTILDIERSFPVFLRKAFRSGEMVTVGKSSDGTPDRRWCFRVDEVNWSHWNQNLGIINEDPGKSEIYQYYGFSHTMGRLRRDRWSSVVPRVVELNKNSGTDEVVVPLDNLGNPNCDGHQQGYAPKWRAEDAPL |
| 4671 | sp|Q99MI7|UBA3\_RAT | MADGEEPEKKRRRIEELLAEKMAVDGGCGDTGDWEGRWNHVKKFLERSGPFTHPDFEPSTESLQFLLDTCKVLVIGAGGLGCELLKNLALSGFRQIHVIDMDTIDVSNLNRQFLFRPKDVGRPKAEVAAEFLNDRVPNCNVVPHFNKIQDFNDTFYRQFHIIVCGLDSIIARRWINGMLISLLNYEDGVLDPSSIVPLIDGGTEGFKGNARVILPGMTACIECTLELYPPQVNFPMCTIASMPRLPEHCIEYVRMLQWPKEQPFGDGVPLDGDDPEHIQWIFQKSVERASQYNIRGVTYRLTQGVVKRIIPAVASTNAVIAAVCATEVFKIATSAYIPLNNYLVFNDVDGLYTYTFEAERKENCPACSQLPQNIQFSPSAKLQEVLDYLTNSASLQMKSPAITATLEGKNRTLYLQSVTSIEERTRPNLSKTLKELGLVDGQELAVADVTTPQTVLFKLHFT |
| 4672 | sp|Q4R6X7|UBP16\_MACFA | MGKKRTKGKTVPIDDSSETLEPMCRHIRKGLEQGNLKKALVNVEWNICQDCKTDNKVKDKAEEETEEKPSVWLCLKCGHQGCGRNSQEQHALKHYLTPRSEPHCLVLSLDNWSVWCYICDNEVQYCSSNQLGQVVDYVRKQASITTPKPAEKDNGNIELENKKLEKESKNEQEREKKENMAKENPPMNSPSQITVKGLSNLGNTCFFNAVMQNLSQTPVLRELLKEVKMSGTIVKIEPPDLALTEPLEINLEPPGPLTLAMSQFLNEMQETKKGIVTPKELFSQVCKKAVRFKGYQQQDSQELLRYLLDGMRAEEHQRVSKGILKAFGNSTEKLDEELKNKVKDYEKKKSIPSFVDRIFGGELTSTIMCDQCRTVSLVHESFLDLSLPVLDDQSGKKSVNDKNLKKTMEDEDQDSEEEKDNDSYIKERSDIPSGTSKHLQKKAKKQAKKQAKNQRRQQKIQGKVLHLNDICTIDHPEDNEYEAEMSLQGEVNIKSNHISQEGVMHKEYCVNQKDLNGQEKMIESVTDNQKPTEEVDMKNINMDNDLEVLTSSPTECTRNLNGAYLTEASNGEVDISNGFKNLNLNAALHPDEINIEILNDSHTPGTKVYEVVNEDPETAFCTLANREVFNTDECSIQHCLYQFTRNEKLRDANKLLCEVCTRRQCNGPKANMKGERKHVYTNAKKQMLISLAPPVLTLHLKRFQQAGFNLRKVNKHIKFPEILDLAPFCTLKCKNVAEENTRVLYSLYGVVEHSGTMRSGHYTAYAKARTANSHLSNLVLHGDIPQDFEMESKGQWFHISDTHVQAVPTTKVLNSQAYLLFYERIL |
| 4673 | sp|O64642|URT1\_ARATH | MADGGAEPPAPPSSINAGEFLLSILHGSPSPSSQGPQHHQSFALDPAIAAIGPTVNNPFPPSNWQSNGHRPSNHNPPSWPLAFSPPHNLSPNFLGFPQFPPSPFTTNQFDGNQRVSPEDAYRLGFPGTTNPAIQSMVQQQQQQQLPPPQSETRKLVFGSFSGDATQSLNGLHNGNLKYDSNQHEQLMRHPQSTLSNSNMDPNLSHHRNHDLHEQRGGHSGRGNWGHIGNNGRGLKSTPPPPPPGFSSNQRGWDMSLGSKDDDRGMGRNHDQAMGEHSKVWNQSVDFSAEANRLRGLSIQNESKFNLSQQIDHPGPPKGASLHSVSAADAADSFSMLNKEARRGGERREELGQLSKAKREGNANSDEIEDFGEDIVKSLLLEDETGEKDANDGKKDSKTSREKESRVDNRGQRLLGQKARMVKMYMACRNDIHRYDATFIAIYKSLIPAEEELEKQRQLMAHLENLVAKEWPHAKLYLYGSCANSFGFPKSDIDVCLAIEGDDINKSEMLLKLAEILESDNLQNVQALTRARVPIVKLMDPVTGISCDICINNVLAVVNTKLLRDYAQIDVRLRQLAFIVKHWAKSRRVNETYQGTLSSYAYVLMCIHFLQQRRPPILPCLQEMEPTYSVRVDNIRCTYFDNVDRLRNFGSNNRETIAELVWGFFNYWAYAHDYAYNVVSVRTGSILGKREKDWTRRVGNDRHLICIEDPFETSHDLGRVVDKFSIRVLREEFERAARIMHQDPNPCAKLLEPYIPEDNNGQGHN |
| 4674 | sp|Q9LIA8|UGDH2\_ARATH | MVKICCIGAGYVGGPTMAVIALKCPDVEVAVVDISVPRINAWNSDTLPIYEPGLDDVVKQCRGKNLFFSTDVEKHVREADIVFVSVNTPTKTRGLGAGKAADLTYWESAARMIADVSVSDKIVVEKSTVPVKTAEAIEKILTHNSKGIKFQILSNPEFLAEGTAIKDLFNPDRVLIGGRETPEGFKAVQTLKNVYAHWVPEGQIITTNLWSAELSKLAANAFLAQRISSVNAMSALCEATGADVTQVSYAVGTDSRIGPKFLNSSVGFGGSCFQKDILNLVYICECNGLPEVAEYWKQVIKINDYQKSRFVNRVVSSMFNSVSNKKIAVLGFAFKKDTGDTRETPAIDVCKGLLEDKARLSIYDPQVTEDQIQRDLSMNKFDWDHPLHLQPMSPTTVKQVTVTWDAYEATKDAHGICIMTEWDEFKNLDFQKIFDNMQKPAFVFDGRNIMNLQKLREIGFIVYSIGKPLDDWLKDMPAVA |
| 4675 | sp|Q99LG0|UBP16\_MOUSE | MGKKRTKGRSAPDTVASESAEPVCRHLRKGLEQGNLKKALVNVEWNICQDCKTDNKVKDKPEEEAEDPSVWLCLKCGHQGCGRDSQEQHALKHYTTPRSEPHYLVLSLDNWSVWCYKCDEEVKYCSSNRLGQVVDYVRKQAGVRTSKPAEKNNGHIELENKKLEKESKNEQEREKSENLAKETIPMDSASQITVKGLSNLGNTCFFNAVMQNLSQTPVLRELLKEVKMSGTIVKIEPPDLALTEPLEVNLEPPGPLTLAMSQFLSEMQENKKRVVTPKELFSQVCKKATRFKGYQQQDSQELLRYLLDGMRAEEHQRVSKGILKAFGNSTEKLDEEVKNKVKDYEKKKAIPSFVDRIFGGELTSTIMCDECRTVSLVHESFLDLSLPVLDDQSGKKSINDKNVKMTMEEEDKDSEEEKDDSYMKSRSDLPSGTSKHLQKKAKKQAKKQAKNQRRQQKIQERFLHFNELCATDYTEDNEREADTALAGEVEVDTDSTHGSQEEATQIELSVNQKDLDGQESMIERTPDVQESPEDLGVKSANTESDLGIVTPAPECPRDFNGAFLEERTSGELDIINGLKNLNLNAAVDPDEINIEIPNDSHSAPKVYEVMNEDPETAFCTLANREAFSTDECSIQHCLYQFTRNEKLQDANKLLCEVCSRRQCNGPKANIKGDRRHVYTNAKKQMLVSLAPPVLTLHLKRFQQAGFNLRKVNKHIKFPEILDLAPFCTLKCKNVAEESTRVLYSLYGVVEHSGTMRSGHYTAYAKERTASCHLSNLVLHGDIPQDCEMESTKGQWFHISDTHVQAVPITKVLNSQAYLLFYERIL |
| 4676 | sp|P09835|UHPB\_ECOLI | MKTLFSRLITVIACFFIFSAAWFCLWSISLHLVERPDMAVLLFPFGLRLGLMLQCPRGYWPVLLGAEWLLIYWLTQAVGLTHFPLLMIGSLLTLLPVALISRYRHQRDWRTLLLQGAALTAAALLQSLPWLWHGKESWNALLLTLTGGLTLAPICLVFWHYLANNTWLPLGPSLVSQPINWRGRHLVWYLLLFVISLWLQLGLPDELSRFTPFCLALPIIALAWHYGWQGALIATLMNAIALIASQTWRDHPVDLLLSLLVQSLTGLLLGAGIQRLRELNQSLQKELARNQHLAERLLETEESVRRDVARELHDDIGQTITAIRTQAGIVQRLAADNASVKQSGQLIEQLSLGVYDAVRRLLGRLRPRQLDDLTLEQAIRSLMREMELEGRGIVSHLEWRIDESALSENQRVTLFRVCQEGLNNIVKHADASAVTLQGWQQDERLMLVIEDDGSGLPPGSGQQGFGLTGMRERVTALGGTLHISCLHGTRVSVSLPQRYV |
| 4677 | sp|Q92995|UBP13\_HUMAN | MQRRGALFGMPGGSGGRKMAAGDIGELLVPHMPTIRVPRSGDRVYKNECAFSYDSPNSEGGLYVCMNTFLAFGREHVERHFRKTGQSVYMHLKRHVREKVRGASGGALPKRRNSKIFLDLDTDDDLNSDDYEYEDEAKLVIFPDHYEIALPNIEELPALVTIACDAVLSSKSPYRKQDPDTWENELPVSKYANNLTQLDNGVRIPPSGWKCARCDLRENLWLNLTDGSVLCGKWFFDSSGGNGHALEHYRDMGYPLAVKLGTITPDGADVYSFQEEEPVLDPHLAKHLAHFGIDMLHMHGTENGLQDNDIKLRVSEWEVIQESGTKLKPMYGPGYTGLKNLGNSCYLSSVMQAIFSIPEFQRAYVGNLPRIFDYSPLDPTQDFNTQMTKLGHGLLSGQYSKPPVKSELIEQVMKEEHKPQQNGISPRMFKAFVSKSHPEFSSNRQQDAQEFFLHLVNLVERNRIGSENPSDVFRFLVEERIQCCQTRKVRYTERVDYLMQLPVAMEAATNKDELIAYELTRREAEANRRPLPELVRAKIPFSACLQAFSEPENVDDFWSSALQAKSAGVKTSRFASFPEYLVVQIKKFTFGLDWVPKKFDVSIDMPDLLDINHLRARGLQPGEEELPDISPPIVIPDDSKDRLMNQLIDPSDIDESSVMQLAEMGFPLEACRKAVYFTGNMGAEVAFNWIIVHMEEPDFAEPLTMPGYGGAASAGASVFGASGLDNQPPEEIVAIITSMGFQRNQAIQALRATNNNLERALDWIFSHPEFEEDSDFVIEMENNANANIISEAKPEGPRVKDGSGTYELFAFISHMGTSTMSGHYICHIKKEGRWVIYNDHKVCASERPPKDLGYMYFYRRIPS |
| 4678 | sp|Q8VHL0|UT1\_MOUSE | MEDSPTMVKVDRGENQILSCRGRRCGFKVLGYVTGDMKEFANWLKDKPVVLQFMDWILRGISQVVFVSNPISGILILVGLLVQNPWWALCGCVGTVVSTLTALLLSQDRSAIAAGLQGYNATLVGILMAVFSNKGDYFWWLIFPVSAMSMTCPVFSSALSSVLSKWDLPVFTLPFNMALSMYLSATGHYNTFFPSKLFTPVSSVPNITWSELSALELLKSLPVGVGQIYGCDNPWTGGIFLCAILLSSPLMCLHAAIGSLLGVIAGLSLAAPFEDIYFGLWGFNSSLACIAIGGMFMALTWQTHLLALACALFTAYFGACMAHLMAVVHLPACTWSFCLATLLFLLLTTKNPNIYRMPLSKVTYSEENRIFYLQNKKRMVESPL |
| 4679 | sp|P0CY48|UCRI\_RHOCA | MSHAEDNAGTRRDFLYHATAATGVVVTGAAVWPLINQMNASADVKAMSSIFVDVSAVEVGTQLTVKWRGKPVFIRRRDEKDIELARSVPLGALRDTSAENANKPGAEATDENRSLAAFDGTNTGEWLVMLGVCTHLGCVPMGDKSGDFGGWFCPCHGSHYDSAGRIRKGPAPRNLDIPVAAFVDETTIKLG |
| 4680 | sp|O02482|UNC37\_CAEEL | MKASYLETLDRIKDEHAEMSKHVNQQRSDIEKVALEKENMNRSYMTYAEVSNTLRSDLRKAEEINKRLQEFIMQSLAPQLSQDNQANCLAALEAFKTASPRENGNGAPALPPGFPPGAAGMLGMMPNMPFGMSPAMSQLFNQFASPHVNGGDGAGGSSGGASEAKKAKLEDPDDGELEIDVTNDDHPSTASNGGAANKNGRDSTNSVASSGASTPSIASNSRARQQQQPLAGLQGLEQMNFLAGFNPNLLRQASAAGGFNFLNDPHAQARLAAAIGQIGSRPAYSFKIVDGGVPTPTSFPPDAQKGPGIPTGLKKKMELNHGEVVCAATISRDNSRVYTGGKGCVKIWDVKESDISGATVVNRPPIASLDCLKENYIRSCKLFEDGNTLLIGGEASTVALWDLTTETKTLDLETDSQACYALAMSPDEKLLFACLADGNILIYDIHNKVKVGTLPGHQDGASCLDLSKDGTKLWSGGLDNSVRCWDLAQRKEVAKHDFASQVFSLGCCPNDEWVAVGMENNYVEVLSTTGKEKYQLTQHESCVLSLKFAHSGKFFISTGKDNALNAWRTPYGASLFQLKENSSVLSCDISFDDSLIVTGSGEKKATLYAVEY |
| 4681 | sp|Q495M9|USH1G\_HUMAN | MNDQYHRAARDGYLELLKEATRKELNAPDEDGMTPTLWAAYHGNLESLRLIVSRGGDPDKCDIWGNTPLHLAASNGHLHCLSFLVSFGANIWCLDNDYHTPLDMAAMKGHMECVRYLDSIAAKQSSLNPKLVGKLKDKAFREAERRIRECAKLQRRHHERMERRYRRELAERSDTLSFSSLTSSTLSRRLQHLALGSHLPYSQATLHGTARGKTKMQKKLERRKQGGEGTFKVSEDGRKSARSLSGLQLGSDVMFVRQGTYANPKEWGRAPLRDMFLSDEDSVSRATLAAEPAHSEVSTDSGHDSLFTRPGLGTMVFRRNYLSSGLHGLGREDGGLDGVGAPRGRLQSSPSLDDDSLGSANSLQDRSCGEELPWDELDLGLDEDLEPETSPLETFLASLHMEDFAALLRQEKIDLEALMLCSDLDLRSISVPLGPRKKILGAVRRRRQAMERPPALEDTEL |
| 4682 | sp|P50464|UNC97\_CAEEL | MDSDHNHINGDLAHGFENMVCVRCNDGFSMQDQMVNSSGQVWHSECFVCAQCFEPFPDGIYFEYEGRKYCEHDFHVLFSPCCGKCNEFIVGRVIKAMNASWHPGCFCCEICNKQLADVGFLRNAGRALCRECNEREKAAGHGRYVCHKCHAMIDDGQHIKFRGDSFHPYHFKCKRCNNELTTASREVNGELYCLRCHDTMGIPICGACHRPIEERVIAALGKHWHVEHFVCSVCEKPFLGHRHYERKGLPYCEQHFHKLFGNLCFKCGDPCCGEVFQALQKTWCVKCFSCSFCDKKLDQKTKFYEFDMKPTCKRCYDRFPTELKKRISESLKDRDVENQRRSMSPGPK |
| 4683 | sp|Q03405|UPAR\_HUMAN | MGHPPLLPLLLLLHTCVPASWGLRCMQCKTNGDCRVEECALGQDLCRTTIVRLWEEGEELELVEKSCTHSEKTNRTLSYRTGLKITSLTEVVCGLDLCNQGNSGRAVTYSRSRYLECISCGSSDMSCERGRHQSLQCRSPEEQCLDVVTHWIQEGEEGRPKDDRHLRGCGYLPGCPGSNGFHNNDTFHFLKCCNTTKCNEGPILELENLPQNGRQCYSCKGNSTHGCSSEETFLIDCRGPMNQCLVATGTHEPKNQSYMVRGCATASMCQHAHLGDAFSMNHIDVSCCTKSGCNHPDLDVQYRSGAAPQPGPAHLSLTITLLMTARLWGGTLLWT |
| 4684 | sp|P49616|UPAR\_RAT | MGLLRRRLLLLVVVVTTCVPASQGLRCIQCESNQDCLVEECALGQDLCRTTVLREWEDAEELEVVTRGCAHKEKTNRTMSYRMGSVIVSLTETVCATNLCNRPRPGARGRPFPRGRYLECASCTSLDQSCERGREQSLQCRYPTEHCIEVVTLQSTERSVKDEPYTKGCGSLPGCPGTAGFHSNQTFHFLKCCNFTQCNGGPVLDLQSLPPNGFQCYSCEGNSTFGCSYEETSLIDCRGPMNQCLEATGLDVLGNRSYTVRGCATASWCQGSHVADSFQTHVNLSISCCNGSGCNRPTGGAPGPGPAHLILIASLLLTLRLWGIPLWT |
| 4685 | sp|O01761|UNC89\_CAEEL | MASRRQKQFDRKYSSYRKFTATEDVNYSTHSSRSSYRSESLTSRTDGRGRSTSSEIIAGSESRSYPVYIAIQDYTPDKEDVEAIPLEQGQIVEVLDKKNSVRWLVRTKARPPRSGWVPGSYFETPTEFYKQRRRTREIENVSLSDEQAALVKRDQVYHELLRSEEEFVSSLRTCVDDYIKVLDDPEVPEAVKKNREELTLNIPELYNFHANVMLKGLNYYSDDPGKVGQTFVRLEKDFESHVEFYKQYADTLKLLEEPEIKRFFEGLSAKNDAGASSFVDHVKEIADRMVQYQNYFKEFVKYSARAHGSSKSIQKALELVTTIPQRVHDLEFTNNLKQHPGDTGKLGRIIRHDAFQVWEGDEPPKLRYVFLFRNKIMFTEQDASTSPPSYTHYSSIRLDKYNIRQHTTDEDTIVLQPQEPGLPSFRIKPKDFETSEYVRKAWLRDIAEEQEKYAAERDAISMTATSEMTASSVDFDMNASDQQSEFSEWSGSRKSSLFPGPEEGGPPRKKVKSPPVISPTGSSTSIYSGGSSSIDWTTTGTTLEMQGTRVTRTQYGFRTLQESSAKMCLKVTGYPLPDITWYKDDVQLHEDERHTFYSDEDGFFAMTIDPVQVTDTGRYTCMATNEYGQASTSAFFRVLKVEKEAAPPAFVTKLRDKECKEGDVIDFECEVEGWPEPELVWLVDDQPLRPSHDFRLQYDGQTAKLEIRDAQPDDTGVYTVKIQNEFGSIESKAELFVQADPDKNHVAPEFQATIEYVECDEGEEVRFKSVITGDPNPEIIWFINGKPLSESEKVKFISEDGICILTIKDVTRHFDGMVTCQGSNRLGSASCDGRLKVRVPPAPPTFNKPLEDKTVQEKSTVVFEVDVSGWPEPTLTFTLCGKELKNGEEGVEIVGHDGFYRISIPNTSMDKHDGEIVAKAQNEHGTAESRARLTVEQEEEESRSAPTFLKDIEDQTVKTGEFAVFETTVRGNPNPEVTWFINGHKMDQGSPGVKIEAHNHDHKLTIDSAQYAGTVLCRAENAVGRFETKARLVVLAPEKQKKPPKFVEILVDKTETVDNTVVFEVRVEGEPKPTVTWYLKGEELKQSDRVEIREFDGSIKISIKNIKIEDAGEIRAVATNSEGSDETKAKLTVQKKPFAPEFDLRPVSLTVEKGSEAVFSAHAFGIPLPTYEWSVNGRKVRDGQEGARVTRDESTVDGASILTIDTATYYSEVNHLTISVVAENTLGAEETGAQLTIEPKKESVVVEKQDLSSSEVQKEIAQQVKEASPEATTTITMETSLTSTKTTTMSTTEVTSTVGGVTVETKESESESATTVIGGGSGGVTEGSISVSKIEVVSKTDSQTDVREGTPKRRVSFAEEELPKEVIDSDRKKKKSPSPDKKEKSPEKTEEKPASPTKKTGEEVKSPKEKSPASPTKKEKSPAAEEVKSPTKKEKSPSSPTKKEKSPSSPTKKTGDEVKEKSPPKSPTKKEKSPEKPEDVKSPVKKEKSPDATNIVEVSSETTIEKTETTMTTEMTHESEESRTSVKKEKTPEKVDEKPKSPTKKDKSPEKSITEEIKSPVKKEKSPEKVEEKPASPTKKEKSPEKPASPTKKSENEVKSPTKKEKSPEKSVVEELKSPKEKSPEKADDKPKSPTKKEKSPEKSATEDVKSPTKKEKSPEKVEEKPTSPTKKESSPTKKTDDEVKSPTKKEKSPQTVEEKPASPTKKEKSPEKSVVEEVKSPKEKSPEKAEEKPKSPTKKEKSPEKSAAEEVKSPTKKEKSPEKSAEEKPKSPTKKESSPVKMADDEVKSPTKKEKSPEKVEEKPASPTKKEKTPEKSAAEELKSPTKKEKSPSSPTKKTGDESKEKSPEKPEEKPKSPTPKKSPPGSPKKKKSKSPEAEKPPAPKLTRDLKLQTVNKTDLAHFEVVVEHATECKWFLDGKEITTAQGVTVSKDDQFEFRCSIDTTMFGSGTVSVVASNAAGSVETKTELKVLETPKETKKPEFTDKLRDMEVTKGDTVQMDVIALHSPLYKWYQNGNLLEDGKNGVTIKNEENKSSLIIPNAQDSGKITVEASNEVGSSESSAQLTVNPPSTTPIVVDGPKSVTIKETETAEFKATISGFPAPTVKWTINEKIVEESRTITTIKTEDVYTLKISNAKIEQTGTVKVTAQNSAGQDSKQADLKVEPNVKAPKFKSQLTDKVADEGEPLRWNLELDGPSPGTEVSWLLNGQPLTKSDTVQVVDHGDGTYHVTIAEAKPEMSGTLTAKAKNAAGECETSAKVTVNGGNKKPEFVQAPQNHETTLEESVKFSAIVTGKPMPNVTWYLNNKKLIQSEEVKVKYVHETGKTSIRIQKPLMEHNGTIRVEAENVSGKVQATAQLKVDKKTEVPKFTTNMDDRQVKEGEDVKFTANVEGYPEPSVAWTLNGEPVSKHPNITVTDKDGEHTIEISAVTPEQAGELSCEATNPVGSKKRDVQLAVKKVGDAPTFAKNLEDRLITEGELTLMDAKLNIVKPKPKITWLKDGVEITSDGHYKIVEEEDGSLKLSILQTKLEDKGRITIKAESEFGVAECSASLGVVKGRPMAKPAFQSDIAPINLTEGDTLECKLLITGDPTPFVKWYIGTQLVCATEDTEISNANGVYTMKIHGVTADMTGKIKCVAYNKAGEVSTEGPLKVVAPIPVEFETSLCDATCREGDTLKLRAVLLGEPEPVVSWYVNGKKLEESQNIKIHSEKGTYTVTIKDITCDYSGQVVCEAINEYGKATSEATLLVLPRGEPPDFLEWLSNVRARTGTKVVHKVVFTGDPKPSLTWYINNKEILNSDLYTIVTDDKTSTLTINSFNPDVHVGEIICKAENDAGEVSCTANMITYTSDMFSESESEAQAEEFVGDDLTEDESLREEMHRTPTPVMAPKFITKIKDTKAKKGHSAVFECVVPDTKGVCCKWLKDGKEIELIARIRVQTRTGPEGHITQELVLDNVTPEDAGKYTCIVENTAGKDTCEATLTVIESLEKKSEKKAPEFIVALQDKTTKTSEKVVLECKVIGEPKPKVSWLHDNKTITQESITVESVEGVERVTITSSELSHQGKYTCIAENTEGTSKTEAFLTVQGEAPVFTKELQNKELSIGEKLVLSCSVKGSPQPHVDFYSFSETTKVETKITSSSRIAIEHDQTNTHWRMVISQITKEDIVSYKAIATNSIGTATSTSKITTKVEAPVFEQGLKKTSVKEKEEIKMEVKVGGSAPDVEWFKDDKPVSEDGNHEMKKNPETGVFTLVVKQAATTDAGKYTAKASNPAGTAESSAEAEVTQSLEKPTFVRELVTTEVKINETATLSVTVKGVPDPSVEWLKDGQPVQTDSSHVIAKVEGSGSYSITIKDARLEDSGKYACRATNPAGEAKTEANFAVVKNLVPPEFVEKLSPLEVKEKESTTLSVKVVGTPEPSVEWFKDDTPISIDNVHVIQKQTAVGSFSLTINDARQGDVGIYSCRARNEAGEALTTANFGIIRDSIPPEFTQKLRPLEVREQETLDLKVTVIGTPVPNVEWFKDDKPINIDNSHIFAKDEGSGHHTLTIKQARGEDVGVYTCKATNEAGEAKTTANMAVQEEIEAPLFVQGLKPYEVEQGKPAELVVRVEGKPEPEVKWFKDGVPIAIDNQHVIEKKGENGSHTLVIKDTNNADFGKYTCQATNKAGKDETVGELKIPKYSFEKQTAEEVKPLFIEPLKETFAVEGDTVVLECKVNKESHPQIKFFKNDQPVEIGQHMQLEVLEDGNIKLTIQNAKKEDVGAYRCEAVNVAGKANTNADLKIQFAAKVEEHVTDESGQLEEIGQFETVGDTASSKTDTGRGAPEFVELLRSCTVTEKQQAILKCKVKGEPRPKIKWTKEGKEVEMSARVRAEHKDDGTLTLTFDNVTQADAGEYRCEAENEYGSAWTEGPIIVTLEGAPKIDGEAPDFLQPVKPAVVTVGETAVLEGKISGKPKPSVKWYKNGEELKPSDRVKIENLDDGTQRLTVTNAKLDDMDEYRCEASNEFGDVWSDVTLTVKEPAQVAPGFFKELSAIQVKETETAKFECKVSGTKPDVKWFKDGTPLKEDKRVHFESTDDGTQRLVIEDSKTDDQGNYRIEVSNDAGVANSKVPLTVVPSETLKIKKGLTDVNVTQGTKILLSVEVEGKPKTVKWYKGTETVTSSQTTKIVQVTESEYKLEIESAEMSDTGAYRVVLSTDSFSVESSATVTVTKAAEKISLPSFKKGLADQSVPKGTPLVLEVEIEGKPKDVKWYKNGDEIKDGKVEDLGNGKYRLTIPDFQEKDVGEYSVTAANEAGEIESKAKVNVSAKPEIVSGLVPTTVKQGETATFNVKVKGPVKGVKWYKNGKEIPDAKTKDNGDGSYSLEIPNAQVEDAADYKVVVSNDAGDADSSAALTVKLADDGKDKVKPEIVSGLIPTTVKQGETATFNVKVKGPVKQVKWYKNGKEIPNAKAKDNGDGSYSLEIPNAQLDDTADYKVVVSNDAGDADSSAALTVKLPGIAIVKGLEDAEVPKGKKAVLQVETNKKPKEIKWYKNGKEITPSDKAQPGSDGDNKPQLVIPDAGDDDAAEYKVVLTDEDGNTADSSCALTVKLPAKEPKIIKGLEDQVVSIGSPIKLEIETSGSPKTVKWYKNGKELPGAAAKTIKIQKIDDNKYVLEIPSSVVEDTGDYKVEVANEAGSANSSGKITVEPKITFLKPLKDQSITEGENAEFSVETNTKPRIVKWYKNGQEIKPNSRFIIEQKTDTKYQLVIKNAVRDDADTYKIVLENTAGEAESSAQLTVKKAKAGLCKIVKGLEDQVVAKGAKMVFEVKIQGEPEDVRWLRDANVISAGANAIIEKIDDTTYRLIIPSADLKDAGEYTVEVINESGKAKSDAKGEVDEKPEIVRGLENIEIPEGDDDVFKVEVSAPVRQVKWYKNDQEIKPNSHLEAKKIGPKKYELAINRAQLDDGADYKVVLSNAAGDCDSSAALTVVKPNVLKIVDGLKDVDVEEPQPVELKVKVEGIPKVIKWYKNGQELKPDADGFKFEEKPESGEFSLTIPSSKKSDGGAYRVVLGNDKGEVYSGSVVHVKSAKSSEPTSGANFLSPLKDTEVEEGDMLTLQCTIAGEPFPEVIWEKDGVVLQKDDRITMRVALDGTATLRIRSAKKSDIGQYRVTAKNEAGSATSDCKVTVTEQGEQPSKPKFVIPLKTGAALPGDKKEFNVKVRGLPKPTLQWFLNGIPIKFDDRITLDDMADGNYCLTIRDVREEDFGTLKCIAKNENGTDETVCEFQQGAGHDDGSRDDLRYPPRFNVPLWDRRIPVGDPMFIECHVDANPTAEVEWFKDGKKIEHTAHTEIRNTVDGACRIKIIPFEESDIGVYMCVAVNELGQAETQATYQVEILEHVEEEKRREYAPKINPPLEDKTVNGGQPIRLSCKVDAIPRASVVWYKDGLPLRADSRTSIQYEEDGTATLAINDSTEEDIGAYRCVATNAHGTINTSCSVNVKVPKQEVKKEGEEPFFTKGLVDLWADRGDSFTLKCAVTGDPFPEIKWYRNGQLLRNGPRTVIETSPDGSCSLTVNESTMSDEGIYRCEAENAHGKAKTQATAHVQMALGKTEKPKMDEGKPPKFILELSDMSVSLGNVIDLECKVTGLPNPSVKWSKDGGPLIEDSRFEWSNEASKGVYQLRIKNATVHDEGTYRCVATNENGSATTKSFVRMDDGLGSGVVTASQPPRFTLKMGDVRTTEGQPLKLECKVDASPLPEMVWYKDGAIVTPSDRIQISLSPDGVATLLIPSCVYDDDGIYRVIATNPSGTAQDKGTATVKKLPRDSGARRSADRDVFDANKAPKLMEPLENIRIPEKQSFRLRCKFSGDPKPTIKWFKDGERVFPYGRLQLIESPDGVCELVVDSATRQDAGGYRCVAENTYGSARTSCDVNVIRGDRKPRDIDSSIREGKAPGFTTPLTIRRAKPGDSVTFECLPFGNPFPSIKWLKDGLELFSDEKIKMEAAADGTQRLILSDVTFLSEGYFRCVATNEHGTASTKAELVIEGDRTIGSRPLPEVNGEPEECKPRIRRGLYNMSIHEGNVVEMIVCATGIPTPTVKWYKDGQEIVGDGPDGKRVIFTDERGIHHLVIVNASPDDEGEYSLEATNKLGSAKTEGSLNIIRPRHIADADERGGMPFPPGFVRQLKNKHVFNHMPTIFDCLVVGHPAPEVEWFHNGKKIVPGGRIKIQSCGGGSHALIILDTTLEDAGEYVATAKNSHGSASSSAVLDVTVPFLDSIKFNGEIDVTPYLTEEYGFKKLNTASLPTPPDRGPFIKEVTGHYLTLSWIPTKRAPPRYPQVTYVIEIRELPEKQWSLLEYNIPEPVCKVRNLELGKSYQFRVRAENIYGISDPSPASPPSRLMAPPQPVFDRRTNKVIPLLDPYAEKALDMRYSEQYACAPWFSPGVVEKRYCAENDTLTIVLNVSGFPDPDIKWKFRGWDIDTSSPTSKCKVYTYGGSETTLAITGFSKENVGQYQCFAKNDYGDAQQNIMVDLATRPNFIQPLVNKTFSSAQPMRMDVRVDGEPFPELKWMKEWRPIVESSRIKFVQDGPYLCSLIINDPMWRDSGIYSCVAVNDAGQATTSCTVTVEAEGDYNDVELPRRRVTIESRRVRELYEISEKDEKLAAEGAPFRVKEKATGREFLAQLRPIDDALMRHVDIHNSLDHPGIVQMHRVLRDEKLALVVFDNANSTIDGLSSLAHPGVEIAEPKGVNRETCVRVFVRQLLLALKHMHDLRIAHLDLRPETILLQDDKLKLADFGQARRLLRGLITGEIKGSPEFVSPEIVRSYPLTLATDMWSTGVLTYVLLTGLSPFHGDNDNETLANVDSCQFDSSPLGNFSYDAGDFVKKLLTEIPVSRLTVDEALDHPWINDEKLKTEPLSADTLREFKYQHKWLERRVFVQQTPSEQILEAILGPATAQAQQNAPVAPEGRRPAEIYDYLRIQPKKPPPTVEYVPQPRKEHPPFIDEFGQLIDGDAFDRPEGTGFEGPHRQPPQIPPQPQRPNQAAHDSRRHEQQPQHQGQPQRIPVDQYGRPLVDPRYLNDPSHRPSSLDDAPFYVDKYGNPVHFDKYGRPMAPQNLEKRKLIPQDKGETPSHSKKEKTQHPVATPILASPGGDQQQQKIPMRMIRGERREIEEEIANRILSDISEEGSIAGSLASLEDFEIPKDFQVEASEPSTPTLTPEVTIRETIPKPTPSPTSPQKSPVPQPQGLLIPAKVTYSDSILAGLPAADKKVLEDAENDPSIPVGAPLFLEGLHGSDLTIDTTSASGLIKVTSPAINLSPNPKSPRRSTPGTKSPVVLSPRQEHSMEVLIATKRGKPGFLPPGELAEDIDDEDAFMDDRKKQVKPKDHDGENDFKDEKERLEKDKNRRTVNLDDLDKYRPSAFYKDDSDFGHPGYDIDATPWDSHYQIGPDTYLMAARGAAFNSRVRNYREELFGMGAPTVKQGFLGVRNRDITVRERRRYTDILRETTQGLEPKSHEQSTALLQKAPSATAIERIKADIEKVTPCATKKNDDGTFAPIFTARLRDVYLRKNQPAIFECAVSASPAPKVTWDFQGKILESNDRVTIEQDNNVARLILNHAAPYDLGEYVCTAINEYGTDKSSCRLISGETPSRPGRPEAELSSDTEIFIQWEAPEGPTYLEGITYRLEYRVAGPNDHGDPWITVSEKIDDESVIVKHLSPLGIYQFRVTAQNGFGLGLPSLSSRIVQTHGKGAPKLQIDVLKSEIRLNVVSMPQKSTNQLGGISEESEEDSEARTANEDMKSNLQLQTDDPTGRFQIGGLKFKGRFSVIRDAVDSTTEGHAHCAVKIRHPSSEAISEYESLRDGQHENVQRLIAAFNNSNFLYLLSERLYEDVFSRFVFNDYYTEEQVALTMRQVTSALHFLHFKGIAHLDVNPHNIMFQSKRSWVVKLVDFGRAQKVSGAVKPVDFDTKWASPEFHIPETPVTVQSDMWGMGVVTFCLLAGFHPFTSEYDREEEIKENVINVKCDPNLIPVNASQECLSFATWALKKSPVRRMRTDEALSHKFLSSDPSMVRRRESIKYSASRLRKLAAMIRQPTFSQPISEELESKYGK |
| 4686 | sp|Q8BY87|UBP47\_MOUSE | MVPGEENQLVPKEDVFWRCRQNIFDEMKKKFLQIENAAEEPRVLCIIQDTTNSKTVSERITLNLPASTPVRKLFEDVANKVGYINGTFDLTRENGVTTADMAPLDHTSDKSLLDANFEPGKKNFLHLTDKDGEPPQMLLEDSNNVDDSVHDRFIGPLPREGSVASTNDYVSQNYSYSSILNKSETGYVGLVNQAMTCYLNSLLQTLFMTPEFRNALYKWEFEDSEEDPVTSIPYQLQRLFVLLQTSKKRAIETTDVTRSFGWDSSEAWQQHDVQELCRVMFDALEQKWKQTEQADLINELYQGKLKDYVRCLECGYEGWRIDTYLDIPLVIRPYGSSQAFASVEEALHAFIQPEILDGPNQYFCERCKKKCDARKGLRFLHFPYLLTLQLKRFDFDYTTMHRIKLNDRMSFPEELDMSTFIDIEDEKSPQTESCTDSGAENEGSCHSDQMSNDFSTDDAVDEGICLESSSGSEKISKPGLEKNSLMYELFSVMVHSGSAAGGHYYACIKSFSDDQWYSFNDQHVSRITQEDIKKTHGGSSGSRGYYSSAFASSTNAYMLIYRLKDPTRNAKFLEVDEYPEHIKNLVQKERELEEQEKRQREIERNTCKIKLFCLHPVKQVMMENKLEVHKDKTLKEAVEMAYKMMDLEDVIPLDCCRLVKYDEFHDYLERSYEGEEDTPMGLLLGGVKSTYMFDLLLETRKPDQIFQSYKPGEVMVKVHVVDLKAETVAAPVTVRAYLNQTVTEFKQLISKATHLPADSMRIVLERCYNDLRLLSMPSKTLKAEGFFRSNKVFVESSETVDHQAAFTDSHLWKLLDRHANTIRLFVLLPEQSPGSYSKRTAYQKAGGDSGNVDDDCERVKGPAGNLKSVDAILEESTEKLKSLSLQQQQQDGDNGDSSKSTETSDFENIESPLNERGSSTSVDNRELEQHIQTSDPENFQSEERSDSDVNNDRSTSSVDSDILSSSHSSDTLCNADSAQIPLANGLDSHSITSSRRTKANEGKKETWDTAEEDSGTDSEYDESGKSRGDMQYMYFKADPYTADEGSGEGHKWLMVHVDKRITLAAFKQHLEPFVGVLSSHFKVFRVYTSNQEFETVRLNETLSSFSDDNKITIRLGRALKKGEYRVKVCQLLVNEQEPCKFLLDAVFAKGMTVRQSKEELIPQLREQCGLDLSIDRFRLRKKTWKNPGTVFLDYHIYEEDINISSNWEVFLEVLDGVEKMKSMSQLAILTRRWRPAEMKLDPFQELVLESNSVDELREKLSEISGIPLEDIEFAKGRGTFPCDISVLDIHQDLDWNPKVSTLNVWPLYICDDGAVIFYRDRTEEVMELTDEQRNELMKKESSRLQKTGHRVTYSPRKEKALKIYLDGAPNKDVAQD |
| 4687 | sp|Q7Z7G8|VP13B\_HUMAN | MLESYVTPILMSYVNRYIKNLKPSDLQLSLWGGDVVLSKLELKLDVLEQELKLPFTFLSGHIHELRIHVPWTKLGSEPVVITINTMECILKLKDGIQDDHESCGSNSTNRSTAESTKSSIKPRRMQQAAPTDPDLPPGYVQSLIRRVVNNVNIVINNLILKYVEDDIVLSVNITSAECYTVGELWDRAFMDISATDLVLRKVINFSDCTVCLDKRNASGKIEFYQDPLLYKCSFRTRLHFTYENLNSKMPSVIKIHTLVESLKLSITDQQLPMFIRIMQLGIALYYGEIGNFKEGEIEDLTCHNKDMLGNITGSEDETRIDMQYPAQHKGQELYSQQDEEQPQGWVSWAWSFVPAIVSYDDGEEDFVGNDPASTMHQQKAQTLKDPIVSIGFYCTKATVTFKLTEMQVESSYYSPQKVKSKEVLCWEQEGTTVEALMMGEPFFDCQIGFVGCRAMCLKGIMGVKDFEENMNRSETEACFFICGDNLSTKGFTYLTNSLFDYRSPENNGTRAEFILDSTHHKETYTEIAGMQRFGAFYMDYLYTMENTSGKGSTNQQDFSSGKSEDLGTVQEKSTKSLVIGPLDFRLDSSAVHRILKMIVCALEHEYEPYSRLKSDIKDENETILNPEEVALLEEYIPTRHTSVTLLKCTCTISMAEFNLLDHLLPVIMGEKNSSNFMNTTNFQSLRPLPSIRILVDKINLEHSVPMYAEQLVHVVSSLTQPSDNLLHYCYVHCYLKIFGFQAGLTSLDCSGSYCLPVPVIPSFSTALYGKLLKLPTCWTKRSQIAITEGIFELPNLTIQATRAQTLLLQAIYQSWSHLGNVSSSAVIEALINEIFLSIGVKSKNPLPTLEGSIQNVELKYCSTSLVKCASGTMGSIKICAKAPVDSGKEKLIPLLQGPSDTKDLHSTKWLNESRKPESLLAPDLMAFTIQVPQYIDYCHNSGAVLLCSIQGLAVNIDPILYTWLIYQPQKRTSRHMQQQPVVAVPLVMPVCRRKEDEVSIGSAPLAKQQSYQASEYASSPVKTKTVTESRPLSVPVKAMLNISESCRSPEERMKEFIGIVWNAVKHLTLQLEVQSCCVFIPNDSLPSPSTIVSGDIPGTVRSWYHGQTSMPGTLVLCLPQIKIISAGHKYMEPLQEIPFVIPRPILEEGDAFPWTISLHNFSIYTLLGKQVTLCLVEPMGCTSTLAVTSQKLLATGPDTRHSFVVCLHVDLESLEIKCSNPQVQLFYELTDIMNKVWNKIQKRGNLNLSPTSPETMAGPVPTSPVRSSIGTAPPDTSTCSPSADIGTTTEGDSIQAGEESPFSDSVTLEQTTSNIGGTSGRVSLWMQWVLPKITIKLFAPDPENKGTEVCMVSELEDLSASIDVQDVYTKVKCKIESFNIDHYRSSLGEECWSLGQCGGVFLSCTDKLNRRTLLVRPISKQDPFSNCSGFFPSTTTKLLDGTHQQHGFLSLTYTKAVTKNVRHKLTSRNERRSFHKLSEGLMDGSPHFLHEILLSAQAFDIVLYFPLLNAIASIFQAKLPKTQKEKRKSPGQPMRTHTLTSRNLPLIYVNTSVIRIFIPKTEEMQPTVEANQAAKEDTVVLKIGSVAMAPQADNPLGRSVLRKDIYQRALNLGILRDPGSEIEDRQYQIDLQSINIGTAQWHQLKPEKESVSGGVVTETERNSQNPALEWNMASSIRRHQERRAILTPVLTDFSVRITGAPAVIFTKVVSPENLHTEEILVCGHSLEVNITTNLDFFLSVAQVQLLHQLIVANMTGLEPSNKAAEISKQEQKKVDIFDGGMAETSSRYSGAQDSGIGSDSVKIRIVQIEQHSGASQHRIARPSRQSSIVKNLNFIPFDIFITASRISLMTYSCMALSKSKSQEQKNNEKTDKSSLNLPEVDSDVAKPNQACISTVTAEDLLRSSISFPSGKKIGVLSLESLHASTRSSARQALGITIVRQPGRRGTGDLQLEPFLYFIVSQPSLLLSCHHRKQRVEVSIFDAVLKGVASDYKCIDPGKTLPEALDYCTVWLQTVPGEIDSKSGIPPSFITLQIKDFLNGPADVNLDISKPLKANLSFTKLDQINLFLKKIKNAHSLAHSEETSAMSNTMVNKDDLPVSKYYRGKLSKPKIHGDGVQKISAQENMWRAVSCFQKISVQTTQIVISMETVPHTSKPCLLASLSNLNGSLSVKATQKVPGIILGSSFLLSINDFLLKTSLKERSRILIGPCCATANLEAKWCKHSGNPGPEQSIPKISIDLRGGLLQVFWGQEHLNCLVLLHELLNGYLNEEGNFEVQVSEPVPQMSSPVEKNQTFKSEQSSDDLRTGLFQYVQDAESLKLPGVYEVLFYNETEDCPGMMLWRYPEPRVLTLVRITPVPFNTTEDPDISTADLGDVLQVPCSLEYWDELQKVFVAFREFNLSESKVCELQLPDINLVNDQKKLVSSDLWRIVLNSSQNGADDQSSASESGSQSTCDPLVTPTALAACTRVDSCFTPWFVPSLCVSFQFAHLEFHLCHHLDQLGTAAPQYLQPFVSDRNMPSELEYMIVSFREPHMYLRQWNNGSVCQEIQFLAQADCKLLECRNVTMQSVVKPFSIFGQMAVSSDVVEKLLDCTVIVDSVFVNLGQHVVHSLNTAIQAWQQNKCPEVEELVFSHFVICNDTQETLRFGQVDTDENILLASLHSHQYSWRSHKSPQLLHICIEGWGNWRWSEPFSVDHAGTFIRTIQYRGRTASLIIKVQQLNGVQKQIIICGRQIICSYLSQSIELKVVQHYIGQDGQAVVREHFDCLTAKQKLPSYILENNELTELCVKAKGDEDWSRDVCLESKAPEYSIVIQVPSSNSSIIYVWCTVLTLEPNSQVQQRMIVFSPLFIMRSHLPDPIIIHLEKRSLGLSETQIIPGKGQEKPLQNIEPDLVHHLTFQAREEYDPSDCAVPISTSLIKQIATKVHPGGTVNQILDEFYGPEKSLQPIWPYNKKDSDRNEQLSQWDSPMRVKLSIWKPYVRTLLIELLPWALLINESKWDLWLFEGEKIVLQVPAGKIIIPPNFQEAFQIGIYWANTNTVHKSVAIKLVHNLTSPKWKDGGNGEVVTLDEEAFVDTEIRLGAFPGHQKLCQFCISSMVQQGIQIIQIEDKTTIINNTPYQIFYKPQLSVCNPHSGKEYFRVPDSATFSICPGGEQPAMKSSSLPCWDLMPDISQSVLDASLLQKQIMLGFSPAPGADSSQCWSLPAIVRPEFPRQSVAVPLGNFRENGFCTRAIVLTYQEHLGVTYLTLSEDPSPRVIIHNRCPVKMLIKENIKDIPKFEVYCKKIPSECSIHHELYHQISSYPDCKTKDLLPSLLLRVEPLDEVTTEWSDAIDINSQGTQVVFLTGFGYVYVDVVHQCGTVFITVAPEGKAGPILTNTNRAPEKIVTFKMFITQLSLAVFDDLTHHKASAELLRLTLDNIFLCVAPGAGPLPGEEPVAALFELYCVEICCGDLQLDNQLYNKSNFHFAVLVCQGEKAEPIQCSKMQSLLISNKELEEYKEKCFIKLCITLNEGKSILCDINEFSFELKPARLYVEDTFVYYIKTLFDTYLPNSRLAGHSTHLSGGKQVLPMQVTQHARALVNPVKLRKLVIQPVNLLVSIHASLKLYIASDHTPLSFSVFERGPIFTTARQLVHALAMHYAAGALFRAGWVVGSLDILGSPASLVRSIGNGVADFFRLPYEGLTRGPGAFVSGVSRGTTSFVKHISKGTLTSITNLATSLARNMDRLSLDEEHYNRQEEWRRQLPESLGEGLRQGLSRLGISLLGAIAGIVDQPMQNFQKTSEAQASAGHKAKGVISGVGKGIMGVFTKPIGGAAELVSQTGYGILHGAGLSQLPKQRHQPSDLHADQAPNSHVKYVWKMLQSLGRPEVHMALDVVLVRGSGQEHEGCLLLTSEVLFVVSVSEDTQQQAFPVTEIDCAQDSKQNNLLTVQLKQPRVACDVEVDGVRERLSEQQYNRLVDYITKTSCHLAPSCSSMQIPCPVVAAEPPPSTVKTYHYLVDPHFAQVFLSKFTMVKNKALRKGFP |
| 4688 | sp|P36543|VATE1\_HUMAN | MALSDADVQKQIKHMMAFIEQEANEKAEEIDAKAEEEFNIEKGRLVQTQRLKIMEYYEKKEKQIEQQKKIQMSNLMNQARLKVLRARDDLITDLLNEAKQRLSKVVKDTTRYQVLLDGLVLQGLYQLLEPRMIVRCRKQDFPLVKAAVQKAIPMYKIATKNDVDVQIDQESYLPEDIAGGVEIYNGDRKIKVSNTLESRLDLIAQQMMPEVRGALFGANANRKFLD |
| 4689 | sp|P38959|VPS41\_YEAST | MTTDNHQNDSVLDQQSGERTIDESNSISDENNVDNKREDVNVTSPTKSVSCISQAENGVASRTDESTITGSATDAETGDDDDDDDDDDDEDEDDEDEPPLLKYTRISQLPKNFFQRDSISSCLFGDTFFAFGTHSGILHLTTCAFEPIKTIKCHRSSILCINTDGKYFATGSIDGTVIIGSMDDPQNITQYDFKRPINSVALHSNFQASRMFVSGGMAGDVVLSQRNWLGNRIDIVLNKKKKKKTRKDDLSSDMKGPIMGIYTMGDLILWMDDDGITFCDVPTRSQLLNIPFPSRIFNVQDVRPDLFRPHVHFLESDRVVIGWGSNIWLFKVSFTKDSNSIKSGDSNSQSNNMSHFNPTTNIGSLLSSAASSFRGTPDKKVELECHFTVSMLITGLASFKDDQLLCLGFDIDIEEEATIDEDMKEGKNFSKRPENLLAKGNAPELKIVDLFNGDEIYNDEVIMKNYEKLSINDYHLGKHIDKTTPEYYLISSNDAIRVQELSLKDHFDWFMERKQYYKAWKIGKYVIGSEERFSIGLKFLNSLVTKKDWGTLVDHLNIIFEETLNSLDSNSYDVTQNVLKEWADIIEILITSGNIVEIAPLIPKKPALRKSVYDDVLHYFLANDMINKFHEYITKWDLKLFSVEDFEEELETRIEAASEPTASSKEEGSNITYRTELVHLYLKENKYTKAIPHLLKAKDLRALTIIKIQNLLPQYLDQIVDIILLPYKGEISHISKLSIFEIQTIFNKPIDLLFENRHTISVARIYEIFEHDCPKSFKKILFCYLIKFLDTDDSFMISPYENQLIELYSEYDRQSLLPFLQKHNNYNVESAIEVCSSKLGLYNELIYLWGKIGETKKALSLIIDELKNPQLAIDFVKNWGDSELWEFMINYSLDKPNFTKAILTCSDETSEIYLKVIRGMSDDLQIDNLQDIIKHIVQENSLSLEVRDNILVIINDETKKFANEFLKIRSQGKLFQVDESDIEINDDLNGVL |
| 4690 | sp|Q70EL1|UBP54\_HUMAN | MSWKRNYFSGGRGSVQGMFAPRSSTSIAPSKGLSNEPGQNSCFLNSALQVLWHLDIFRRSFRQLTTHKCMGDSCIFCALKGIFNQFQCSSEKVLPSDTLRSALAKTFQDEQRFQLGIMDDAAECFENLLMRIHFHIADETKEDICTAQHCISHQKFAMTLFEQCVCTSCGATSDPLPFIQMVHYISTTSLCNQAICMLERREKPSPSMFGELLQNASTMGDLRNCPSNCGERIRIRRVLMNAPQIITIGLVWDSDHSDLAEDVIHSLGTCLKLGDLFFRVTDDRAKQSELYLVGMICYYGKHYSTFFFQTKIRKWMYFDDAHVKEIGPKWKDVVTKCIKGHYQPLLLLYADPQGTPVSTQDLPPQAEFQSYSRTCYDSEDSGREPSISSDTRTDSSTESYPYKHSHHESVVSHFSSDSQGTVIYNVENDSMSQSSRDTGHLTDSECNQKHTSKKGSLIERKRSSGRVRRKGDEPQASGYHSEGETLKEKQAPRNASKPSSSTNRLRDFKETVSNMIHNRPSLASQTNVGSHCRGRGGDQPDKKPPRTLPLHSRDWEIESTSSESKSSSSSKYRPTWRPKRESLNIDSIFSKDKRKHCGYTQLSPFSEDSAKEFIPDEPSKPPSYDIKFGGPSPQYKRWGPARPGSHLLEQHPRLIQRMESGYESSERNSSSPVSLDAALPESSNVYRDPSAKRSAGLVPSWRHIPKSHSSSILEVDSTASMGGWTKSQPFSGEEISSKSELDELQEEVARRAQEQELRRKREKELEAAKGFNPHPSRFMDLDELQNQGRSDGFERSLQEAESVFEESLHLEQKGDCAAALALCNEAISKLRLALHGASCSTHSRALVDKKLQISIRKARSLQDRMQQQQSPQQPSQPSACLPTQAGTLSQPTSEQPIPLQVLLSQEAQLESGMDTEFGASSFFHSPASCHESHSSLSPESSAPQHSSPSRSALKLLTSVEVDNIEPSAFHRQGLPKAPGWTEKNSHHSWEPLDAPEGKLQGSRCDNSSCSKLPPQEGRGIAQEQLFQEKKDPANPSPVMPGIATSERGDEHSLGCSPSNSSAQPSLPLYRTCHPIMPVASSFVLHCPDPVQKTNQCLQGQSLKTSLTLKVDRGSEETYRPEFPSTKGLVRSLAEQFQRMQGVSMRDSTGFKDRSLSGSLRKNSSPSDSKPPFSQGQEKGHWPWAKQQSSLEGGDRPLSWEESTEHSSLALNSGLPNGETSSGGQPRLAEPDIYQEKLSQVRDVRSKDLGSSTDLGTSLPLDSWVNITRFCDSQLKHGAPRPGMKSSPHDSHTCVTYPERNHILLHPHWNQDTEQETSELESLYQASLQASQAGCSGWGQQDTAWHPLSQTGSADGMGRRLHSAHDPGLSKTSTAEMEHGLHEARTVRTSQATPCRGLSRECGEDEQYSAENLRRISRSLSGTVVSEREEAPVSSHSFDSSNVRKPLETGHRCSSSSSLPVIHDPSVFLLGPQLYLPQPQFLSPDVLMPTMAGEPNRLPGTSRSVQQFLAMCDRGETSQGAKYTGRTLNYQSLPHRSRTDNSWAPWSETNQHIGTRFLTTPGCNPQLTYTATLPERSKGLQVPHTQSWSDLFHSPSHPPIVHPVYPPSSSLHVPLRSAWNSDPVPGSRTPGPRRVDMPPDDDWRQSSYASHSGHRRTVGEGFLFVLSDAPRREQIRARVLQHSQW |
| 4691 | sp|Q8R5K2|UBP33\_MOUSE | MTTFRNHCPHLDSVGEITKEDLIQKSLGACQDCKVRGPNLWACLENRCSYVGCGESQVDHSTIHSQETKHYLTVNLTTLRVWCYACSKEVFLDRKLGTPPSLPHVRQPQQTQENSVQDFKIPSNPALKTPMVAVSEDLDIEVEEEDELKARGLTGLKNIGNTCYMNAALQALSNCPPLTQFFLDCGGLARTDKKPAICKSYLKLMTELWHKSRPGSVVPANLFQGIKTVNPTFRGYSQQDAQEFLRCLMDLLHEELKEQVMEMEEEPQTLTSEETVEEEKSQSDVDFQSCESCSSSEKAENESGSKGFPEDSNETTMLIQDEDDLEMAKDWQKEKVCNKINKANADVELDKDRDTVCETVDLNSQETVKVQIHGRASESITDVHLNDLATSQILPSNESVSPRLSASPPKLGSLWPGLSPPHKKAQSTSAKRKKQHKKYRSVISDIFDGTVISSVQCLTCDRVSITLETFQDLSLPIPGKEDLAKLHSSSHPTIVKAGSCGEAYAPQGWIAFFMEYVKRFVVSCVPSWFWGPVVTLQDCLAAFFARDELKGDNMYSCEKCKKLRNGVKFCKVQKFPEILCIHLKRFRHELMFSTKISTHVSFPLEGLDLQPFLAKDSPAQIVTYDLLSVICHHGTASSGHYIAYCRNNLNNLWYEFDDQSVTEVSESTVQNAEAYVLFYRKSSEEAQKERRRISNLLNIMEPSLLQFYISRQWLNKFKTFAEPGPISNNDFLCIHGGIPPRKASYIEDLVLMLPQNIWDNLYSRYGGGPAVNHLYICHTCQIELEKIEKRRKTELEIFIRLNRAFQEEDSPATFYCISMQWFREWESFVKGKDGDPPGPIDNTKIAVTKCGSVMLKQGADSGQISEETWNFLQSIYGGGPEVILRPPVVHVDPDVLQAEEKIEVETRSL |
| 4692 | sp|Q9ES00|UBE4B\_MOUSE | MEELSADEIRRRRLARLAGGQTSQPTTPLTSPQRENPPGPPIAASAPGPSQSLGLNVHNMTPATSPIGAAGVAHRSQSSEGVSSLSSSPSNSLETQSQSLSRSQSMDIDGVSCEKSMSQVDVDSGIENMEVDENDRREKRSLSDKEPSSGPEVSEEQALQLVCKIFRVSWKDRDRDVIFLSSLSAQFKQNPKEVFSDFKDLIGQILMEVLMMSTQTRDENPFASLTATSQPIATAARSPDRNLMLNTGSSSGTSPMFCNMGSFSTSSLSSLGASGGASNWDSYSDHFTIETCKETDMLNYLIECFDRVGIEEKKAPKMCSQPAVSQLLSNIRSQCISHTALVLQGSLTQPRSLQQPSFLVPYMLCRNLPYGFIQELVRTTHQDEEVFKQIFIPILQGLALAAKECSLESDYFKYPLMALGELCETKFGKTHPMCNLVASLPLWLPKSLSPGSGRELQRLSYLGAFFSFSVFAEDDAKVVEKYFSGPAITLENTRVVSQSLQHYLELGRQELFKILHSILLNGETREAALSYMAALVNANMKKAQMQADDRLVSTDGFMLNLLWVLQQLSTKIKLETVDPTYIFHPRCRITLPNDETRINATMEDVNERLTELYGDQPPFSEPKFPTECFFLTLHAHHLSILPSCRRYIRRLRAIRELNRTVEDLKNNESQWKDSPLATRHREMLKRCKTQLKKLVRCKACADAGLLDESFLRRCLNFYGLLIQLMLRILDPAYPDVTLPLNSEVPKVFAALPEFYVEDVAEFLFFIVQYSPQVLYEPCTQDIVMFLVVMLCNQNYIRNPYLVAKLVEVMFMTNPSVQPRTQKFFEMIENHPLSTKLLVPSLMKFYTDVEHTGATSEFYDKFTIRYHISTIFKSLWQNIAHHGTFMEEFNSGKQFVRYINMLINDTTFLLDESLESLKRIHEVQEEMKNKEQWDQLPRDQQQARQSQLAQDERVSRSYLALATETVDMFHLLTKQVQKPFLRPELGPRLAAMLNFNLQQLCGPKCRDLKVENPEKYGFEPKKLLDQLTDIYLQLDCARFAKAIADDQRSYSKELFEEVISKMRKAGIKSTIAIEKFKLLAEKVEEIVAKNARAEIDYSDAPDEFRDPLMDTLMTDPVRLPSGTVMDRSIILRHLLNSPTDPFNRQMLTESMLEPVPELKEQIQAWMREKQSSDH |
| 4693 | sp|Q93009|UBP7\_HUMAN | MNHQQQQQQQKAGEQQLSEPEDMEMEAGDTDDPPRITQNPVINGNVALSDGHNTAEEDMEDDTSWRSEATFQFTVERFSRLSESVLSPPCFVRNLPWKIMVMPRFYPDRPHQKSVGFFLQCNAESDSTSWSCHAQAVLKIINYRDDEKSFSRRISHLFFHKENDWGFSNFMAWSEVTDPEKGFIDDDKVTFEVFVQADAPHGVAWDSKKHTGYVGLKNQGATCYMNSLLQTLFFTNQLRKAVYMMPTEGDDSSKSVPLALQRVFYELQHSDKPVGTKKLTKSFGWETLDSFMQHDVQELCRVLLDNVENKMKGTCVEGTIPKLFRGKMVSYIQCKEVDYRSDRREDYYDIQLSIKGKKNIFESFVDYVAVEQLDGDNKYDAGEHGLQEAEKGVKFLTLPPVLHLQLMRFMYDPQTDQNIKINDRFEFPEQLPLDEFLQKTDPKDPANYILHAVLVHSGDNHGGHYVVYLNPKGDGKWCKFDDDVVSRCTKEEAIEHNYGGHDDDLSVRHCTNAYMLVYIRESKLSEVLQAVTDHDIPQQLVERLQEEKRIEAQKRKERQEAHLYMQVQIVAEDQFCGHQGNDMYDEEKVKYTVFKVLKNSSLAEFVQSLSQTMGFPQDQIRLWPMQARSNGTKRPAMLDNEADGNKTMIELSDNENPWTIFLETVDPELAASGATLPKFDKDHDVMLFLKMYDPKTRSLNYCGHIYTPISCKIRDLLPVMCDRAGFIQDTSLILYEEVKPNLTERIQDYDVSLDKALDELMDGDIIVFQKDDPENDNSELPTAKEYFRDLYHRVDVIFCDKTIPNDPGFVVTLSNRMNYFQVAKTVAQRLNTDPMLLQFFKSQGYRDGPGNPLRHNYEGTLRDLLQFFKPRQPKKLYYQQLKMKITDFENRRSFKCIWLNSQFREEEITLYPDKHGCVRDLLEECKKAVELGEKASGKLRLLEIVSYKIIGVHQEDELLECLSPATSRTFRIEEIPLDQVDIDKENEMLVTVAHFHKEVFGTFGIPFLLRIHQGEHFREVMKRIQSLLDIQEKEFEKFKFAIVMMGRHQYINEDEYEVNLKDFEPQPGNMSHPRPWLGLDHFNKAPKRSRYTYLEKAIKIHN |
| 4694 | sp|O65570|VILI4\_ARATH | MSVSMRDLDPAFQGAGQKAGIEIWRIENFIPTPIPKSSIGKFFTGDSYIVLKTTALKTGALRHDIHYWLGKDTSQDEAGTAAVKTVELDAALGGRAVQYREVQGHETEKFLSYFKPCIIPQEGGVASGFKHVVAEEHITRLFVCRGKHVVHVKEVPFARSSLNHDDIYILDTKSKIFQFNGSNSSIQERAKALEVVQYIKDTYHDGTCEVATVEDGKLMADADSGEFWGFFGGFAPLPRKTANDEDKTYNSDITRLFCVEKGQANPVEGDTLKREMLDTNKCYILDCGIEVFVWMGRTTSLDDRKIASKAAEEMIRSSERPKSQMIRIIEGFETVPFRSKFESWTQETNTTVSEDGRGRVAALLQRQGVNVRGLMKAAPPKEEPQVFIDCTGNLQVWRVNGQAKTLLQAADHSKFYSGDCYVFQYSYPGEEKEEVLIGTWFGKQSVEEERGSAVSMASKMVESMKFVPAQARIYEGKEPIQFFVIMQSFIVFKGGISSGYKKYIAEKEVDDDTYNENGVALFRIQGSGPENMQAIQVDPVAASLNSSYYYILHNDSSVFTWAGNLSTATDQELAERQLDLIKPNQQSRAQKEGSESEQFWELLGGKAEYSSQKLTKEPERDPHLFSCTFTKEVLKVTEIYNFTQDDLMTEDIFIIDCHSEIFVWVGQEVVPKNKLLALTIGEKFIEKDSLLEKLSPEAPIYVIMEGGEPSFFTRFFTSWDSSKSAMHGNSFQRKLKIVKNGGTPVADKPKRRTPASYGGRASVPDKSQQRSRSMSFSPDRVRVRGRSPAFNALAATFESQNARNLSTPPPVVRKLYPRSVTPDSSKFAPAPKSSAIASRSALFEKIPPQEPSIPKPVKASPKTPESPAPESNSKEQEEKKENDKEEGSMSSRIESLTIQEDAKEGVEDEEDLPAHPYDRLKTTSTDPVSDIDVTRREAYLSSEEFKEKFGMTKEAFYKLPKWKQNKFKMAVQLF |
| 4695 | sp|Q9PW35|VM1AA\_DEIAC | MIQVLLVTICLAAFPYQGSSIILESGNVNDYEVVYPRKVTALPKGAVQQKYEDAMQYEFKVNGEPVVLHLEKNKGLFSKDYSEIHYSPDGRRITTHPLVEDHCYYRGHIRNDADSTASISACNGLKGHFKLQGEMYLIEPMKMSYSEAHAVYKYGNVEKEDEAPKMCGVTQNWESYEPIKKASQLIVSTEFQRYMEIVIVVDHSMVKKYNGDSDKIKAWVYEMINTITESYSYLYIDIILSGLEIWSEKDLINVETSAENTLKSFGEWRAKDLIHRISHDNAQLLTATDFDGPTIGLAYVASMCDPKRSVGVVQDHSSVNRLVAITLAHEMAHNLGVRHDEGSCSCGSGYTCIMSPVINSEVIKYFSDCSYIQCREYISKENPPCILNKPLRTDTVSTPVSGNELLEAGKDYD |
| 4696 | sp|Q39119|VPEG\_ARATH | MATTMTRVSVGVVLFVLLVSLVAVSAARSGPDDVIKLPSQASRFFRPAENDDDSNSGTRWAVLVAGSSGYWNYRHQADICHAYQLLRKGGLKEENIVVFMYDDIANNYENPRPGTIINSPHGKDVYQGVPKDYTGDDVNVDNLFAVILGDKTAVKGGSGKVVDSGPNDHIFIFYSDHGGPGVLGMPTSPYLYANDLNDVLKKKHALGTYKSLVFYLEACESGSIFEGLLPEGLNIYATTASNAEESSWGTYCPGEEPSPPPEYETCLGDLYSVAWMEDSGMHNLQTETLHQQYELVKRRTAPVGYSYGSHVMQYGDVGISKDNLDLYMGTNPANDNFTFADANSLKPPSRVTNQRDADLVHFWEKYRKAPEGSARKTEAQKQVLEAMSHRLHIDNSVILVGKILFGISRGPEVLNKVRSAGQPLVDDWNCLKNQVRAFERHCGSLSQYGIKHMRSFANICNAGIQMEQMEEAASQACTTLPTGPWSSLNRGFSA |
| 4697 | sp|Q8BB27|VGLG\_BDV1 | MQLSMSFLIGFGTLVLALSARTFDLQGLSCNTDSTPGLIDLEIRRLCHTPTENVISCEVRYLNHTTINLPAVHTSCLKYHCKTYWGFFGSYSADRIINRYTGTVKGCLNNSAPEDPFECNWFYCCSAITTEICRCSITNVTVAVQTFPPFMYCSFADCSTVSQQELESGKAMLSDGSTLTYTPYILQSEVVNKTLNGTILCNSSSKIVSFDEFRRSYSLANGSYQSSSINVTCVNYTSSCRPRLKRRRRDTQQIEYLVHKLRPTLKDAWEDCEILQSLLLGVFGTGIASASQFLRGWLNHPDIIGYIVNGVGVVWQCHRVNVTFMAWNESTYYPPVDYNGRKYFLNDEGRLQTNTPEARPGLKRVMWFGRYFLGTVGSGVKPRRIRYNKTSHDYHLEEFEASLNMTPQTSIASGHETDPINHAYGTQADLLPYTRSSNITSTDTGSGWVHIGLPSFAFLNPLGWLRDLLAWAAWLGGVLYLISLCVSLPASFARRRRLGRWQE |
| 4698 | sp|Q7TSF2|VGLU3\_RAT | MPFNAFDTFKEKILKPGKEGVKNAVGDSLGILQRKLDGTNEEGDAIELSEEGRPVQTSRARAPVCDCSCCGIPKRYIIAVMSGLGFCISFGIRCNLGVAIVEMVNNSTVYVDGKPEIQTAQFNWDPETVGLIHGSFFWGYIVTQIPGGFISNKFAANRVFGAAIFLTSTLNMFIPSAARVHYGCVMCVRILQGLVEGVTYPACHGMWSKWAPPLERSRLATTSFCGSYAGAVVAMPLAGVLVQYIGWASVFYIYGMFGIIWYMFWLLQAYECPAVHPTISNEERTYIETSIGEGANLASLSKFNTPWRRFFTSLPVYAIIVANFCRSWTFYLLLISQPAYFEEVFGFAISKVGLLSAVPHMVMTIVVPIGGQLADYLRSRKILTTTAVRKIMNCGGFGMEATLLLVVGFSHTKGVAISFLVLAVGFSGFAISGFNVNHLDIAPRYASILMGISNGVGTLSGMVCPLIVGAMTKHKTREEWQNVFLIAALVHYSGVIFYGVFASGEKQDWADPENLSEEKCGIIDQDELAEETELNHEAFVSPRKKMSYGATTQNCEVQKTDRRQQRESAFEGEEPLSYQNEEDFSETS |
| 4699 | sp|O94753|VPL2\_PLEER | MSFKTLSALALALGAAVQFASAAVPLVQKRATCDDGRTTANAACCILFPILDDIQENLFDGAQCGEEVHESLRLTFHDAIGFSPTLGGGGADGSIIAFDTIETNFPANAGIDEIVSAQKPFVAKHNISAGDFIQFAGAVGVSNCPGGVRIPFFLGRPDAVAASPDHLVPEPFDSVDSILARMGDAGFSPVEVVWLLASHSIAAADKVDPSIPGTPFDSTPGVFDSQFFIETQLKGRLFPGTADNKGEAQSPLQGEIRLQSDHLLARDPQTACEWQSMVNNQPKIQNRFAATMSKMALLGQDKTKLIDCSDVIPTPPALVGAAHLPAGFSLSDVEQACAATPFPALTADPGPVTSVPPVPGS |
| 4700 | sp|P85972|VINC\_RAT | MPVFHTRTIESILEPVAQQISHLVIMHEEGEVDGKAIPDLTAPVAAVQAAVSNLVRVGKETVQTTEDQILKRDMPPAFIKVENACTKLVQAAQMLQSDPYSVPARDYLIDGSRGILSGTSDLLLTFDEAEVRKIIRVCKGILEYLTVAEVVETMEDLVTYTKNLGPGMTKMAKMIDERQQELTHQEHRVMLVNSMNTVKELLPVLISAMKIFVTTKNSKNQGIEEALKNRNFTVGKMSAEINEIIRVLQLTSWDEDAWASKDTEAMKRALASIDSKLNQAKGWLRDPNASPGDAGEQAIRQILDEAGKVGELCAGKERREILGTCKMLGQMTDQVADLRARGQGASPVAMQKAQQVSQGLDVLTAKVENAARKLEAMTNSKQSIAKKIDAAQNWLADPNGGPEGEEQIRGALAEARKIAELCDDPKERDDILRSLGEIAALTSKLGDLRRQGKGDSPEARALAKQVATALQNLQTKTNRAVANSRPAKAAVHLEGKIEQAQRWIDNPTVDDRGVGQAAIRGLVAEGHRLANVMMGPYRQDLLAKCDRVDQLAAQLADLAARGEGESPQARALASQLQDSLKDLKTQMQEAMTQEVSDVFSDTTTPIKLLAVAATAPPDAPNREEVFDERAANFENHSGRLGATAEKAAAVGAANKSTVEGIQASVKTARELTPQVISAARILLRNPGNQAAYEHFETMKNQWIDNVEKMTGLVDEAIDTKSLLDASEEAIKKDLDKCKVAMANIQPQMLVAGATSIARRANRILLVAKREVENSEDPKFREAVKAASDELSKTISPMVMDAKAVAGNISDPGLQKSFLDSGYRILGAVAKVREAFQPQEPDFPPPPPDLEQLRLTDELAPPKPPLPEGEVPPPRPPPPEEKDEEFPEQKAGEVINQPMMMAARQLHDEARKWSSKGNDIIAAAKRMALLMAEMSRLVRGGSGTKRALIQCAKDIAKASDEVTRLAKEVAKQCTDKRIRTNLLQVCERIPTISTQLKILSTVKATMLGRTNISDEESEQATEMLVHNAQNLMQSVKETVREAEAASIKIRTDAGFTLRWVRKTPWYQ |
| 4701 | sp|Q9NY84|VNN3\_HUMAN | MIISHFPKCVAVFALLALSVGALDTFIAAVYEHAVILPNRTETPVSKEEALLLMNKNIDVLEKAVKLAAKQGAHIIVTPEDGIYGWIFTRESIYPYLEDIPDPGVNWIPCRDPWRFGNTPVQQRLSCLAKDNSIYVVANIGDKKPCNASDSQCPPDGRYQYNTDVVFDSQGKLLARYHKYNLFAPEIQFDFPKDSELVTFDTPFGKFGIFTCFDIFSHDPAVVVVDEFQLTAFSTPQHGTTRCPSSRLFPSIQHGPRPWESIYLLQIPTTPACT |
| 4702 | sp|P53076|VID30\_YEAST | MSEYMDDVDREFINCLFPSYLLQQPVAYDLWILYLQHRKLFHKLKNTNLINADENPTGVGMGRTKLTALTRKEIWSKLMNLGVLGTISFEAVNDDYLIQVYKYFYPDVNDFTLRFGVKDSNKNSVRVMKASSDMRKNAQELLEPVLSEREMALNSNTSLENDRNDDDDDDDDDDDDDDDDDDDDDESDLESLEGEVDTDTDDNNEGDGSDNHEEGGEEGSRGADADVSSAQQRAERVADPWIYQRSRSAINIETESRNLWDTSDKNSGLQYYPPDQSPSSSFSSPRVSSGNDKNDNEATNVLSNSGSKKKNSMIPDIYKILGYFLPSRWQAQPNNSLQLSQDGITHLQPNPDYHSYMTYERSSASSASTRNRLRTSFENSGKVDFAVTWANKSLPDNKLTIFYYEIKVLSVTSTESAENSNIVIGYKLVENELMEATTKKSVSRSSVAGSSSSLGGSNNMSSNRVPSTSFTMEGTQRRDYIYEGGVSAMSLNVDGSINKCQKYGFDLNVFGYCGFDGLITNSTEQSKEYAKPFGRDDVIGCGINFIDGSIFFTKNGIHLGNAFTDLNDLEFVPYVALRPGNSIKTNFGLNEDFVFDIIGYQDKWKSLAYEHICRGRQMDVSIEEFDSDESEEDETENGPEENKSTNVNEDLMDIDQEDGAAGNKDTKKLNDEKDNNLKFLLGEDNRFIDGKLVRPDVNNINNLSVDDGSLPNTLNVMINDYLIHEGLVDVAKGFLKDLQKDAVNVNGQHSESKDVIRHNERQIMKEERMVKIRQELRYLINKGQISKCINYIDNEIPDLLKNNLELVFELKLANYLVMIKKSSSKDDDEIENLILKGQELSNEFIYDTKIPQSLRDRFSGQLSNVSALLAYSNPLVEAPKEISGYLSDEYLQERLFQVSNNTILTFLHKDSECALENVISNTRAMLSTLLEYNAFGSTNSSDPRYYKAINFDEDVLNL |
| 4703 | sp|A3R0T9|VM3\_OPHHA | MIQVLLVTICLVVFPYQGSSIILESGKVNDYEVVYPQKIPVLPKSKIQRREQKMYEDTMKYEFKVNGEPVVLHLERNKELFSKDYTETHYSPDGREITTSPPVEDHCYYHGYIQSDIDSTAILNACNGLKGYFRHHGEAYHIEPLKFSDSEAHAVYKYENIEKEDETPKICGVKHSTWESDEPIEKISQKKDFLEEKKYLELYIVADYVMFRKYGRNVTTIRMRVFDMVNYITVVYKALNIHVALIGFEIWSLKDKFVINASTKNNLLHFSIWRSTVLRKRNDNAQLLTGVDLNGYTLGSAYLKAMCDVLQSVGIVQDYSKSPYLVGAAMAHEIGHNLGMEHDTKTCSCMRGNCIMSPEEEGSDFPMEFSSCSLYDFQNYMLTDTPQCLINKPSNTSIIKNAVCGNYVEEEGEECDCGSPEQCENNCCEAATCKLKPGAKCAKGACCKKCQFKKAGAECRAARNECDLPEFCIGQSAECPMDRFHKNGHSCQNDQGYCFRGYCPTLAKQCITLWGSDAKVAPDECFQNNTNGNEYDYCKKTNNVIIPCKPTDVKCGRLYCTGGTENPSEGEKISSDPCKASYSEIEDIGMVDHRTKCGEKMVCSDGKCIPL |
| 4704 | sp|Q6EMK4|VASN\_HUMAN | MCSRVPLLLPLLLLLALGPGVQGCPSGCQCSQPQTVFCTARQGTTVPRDVPPDTVGLYVFENGITMLDAGSFAGLPGLQLLDLSQNQIASLPSGVFQPLANLSNLDLTANRLHEITNETFRGLRRLERLYLGKNRIRHIQPGAFDTLDRLLELKLQDNELRALPPLRLPRLLLLDLSHNSLLALEPGILDTANVEALRLAGLGLQQLDEGLFSRLRNLHDLDVSDNQLERVPPVIRGLRGLTRLRLAGNTRIAQLRPEDLAGLAALQELDVSNLSLQALPGDLSGLFPRLRLLAAARNPFNCVCPLSWFGPWVRESHVTLASPEETRCHFPPKNAGRLLLELDYADFGCPATTTTATVPTTRPVVREPTALSSSLAPTWLSPTEPATEAPSPPSTAPPTVGPVPQPQDCPPSTCLNGGTCHLGTRHHLACLCPEGFTGLYCESQMGQGTRPSPTPVTPRPPRSLTLGIEPVSPTSLRVGLQRYLQGSSVQLRSLRLTYRNLSGPDKRLVTLRLPASLAEYTVTQLRPNATYSVCVMPLGPGRVPEGEEACGEAHTPPAVHSNHAPVTQAREGNLPLLIAPALAAVLLAALAAVGAAYCVRRGRAMAAAAQDKGQVGPGAGPLELEGVKVPLEPGPKATEGGGEALPSGSECEVPLMGFPGPGLQSPLHAKPYI |
| 4705 | sp|P50552|VASP\_HUMAN | MSETVICSSRATVMLYDDGNKRWLPAGTGPQAFSRVQIYHNPTANSFRVVGRKMQPDQQVVINCAIVRGVKYNQATPNFHQWRDARQVWGLNFGSKEDAAQFAAGMASALEALEGGGPPPPPALPTWSVPNGPSPEEVEQQKRQQPGPSEHIERRVSNAGGPPAPPAGGPPPPPGPPPPPGPPPPPGLPPSGVPAAAHGAGGGPPPAPPLPAAQGPGGGGAGAPGLAAAIAGAKLRKVSKQEEASGGPTAPKAESGRSGGGGLMEEMNAMLARRRKATQVGEKTPKDESANQEEPEARVPAQSESVRRPWEKNSTTLPRMKSSSSVTTSETQPCTPSSSDYSDLQRVKQELLEEVKKELQKVKEEIIEAFVQELRKRGSP |
| 4706 | sp|P21796|VDAC1\_HUMAN | MAVPPTYADLGKSARDVFTKGYGFGLIKLDLKTKSENGLEFTSSGSANTETTKVTGSLETKYRWTEYGLTFTEKWNTDNTLGTEITVEDQLARGLKLTFDSSFSPNTGKKNAKIKTGYKREHINLGCDMDFDIAGPSIRGALVLGYEGWLAGYQMNFETAKSRVTQSNFAVGYKTDEFQLHTNVNDGTEFGGSIYQKVNKKLETAVNLAWTAGNSNTRFGIAAKYQIDPDACFSAKVNNSSLIGLGYTQTLKPGIKLTLSALLDGKNVNAGGHKLGLGLEFQA |
| 4707 | sp|Q9FN03|UVR8\_ARATH | MAEDMAADEVTAPPRKVLIISAGASHSVALLSGDIVCSWGRGEDGQLGHGDAEDRPSPTQLSALDGHQIVSVTCGADHTVAYSQSGMEVYSWGWGDFGRLGHGNSSDLFTPLPIKALHGIRIKQIACGDSHCLAVTMEGEVQSWGRNQNGQLGLGDTEDSLVPQKIQAFEGIRIKMVAAGAEHTAAVTEDGDLYGWGWGRYGNLGLGDRTDRLVPERVTSTGGEKMSMVACGWRHTISVSYSGALYTYGWSKYGQLGHGDLEDHLIPHKLEALSNSFISQISGGWRHTMALTSDGKLYGWGWNKFGQVGVGNNLDQCSPVQVRFPDDQKVVQVSCGWRHTLAVTERNNVFAWGRGTNGQLGIGESVDRNFPKIIEALSVDGASGQHIESSNIDPSSGKSWVSPAERYAVVPDETGLTDGSSKGNGGDISVPQTDVKRVRI |
| 4708 | sp|Q8VZ95|VAP11\_ARATH | MSNIDLIGMSNRDLIGMSNSELLTVEPLDLQFPFELKKQISCSLYLTNKTDNNVAFKVKTTNPKKYCVRPNTGVVLPRSTCEVLVTMQAQKEAPSDMQCKDKFLLQGVIASPGVTAKEVTPEMFSKEAGHRVEETKLRVTYVAPPRPPSPVHEGSEEGSSPRASVSDNGHGSEFSFERFIVDNKAGHQENTSEARALITKLTEEKQSAIQLNNRLQRELDQLRRESKKSQSGGIPFMYVLLVGLIGLILGYIMKRT |
| 4709 | sp|Q5AJC0|UTR2\_CANAL | MRFSTLHFAFLATLSSIFTVVAASDTTTCSSSKHCPEDKPCCSQFGICGTGAYCLGGCDIRYSYNLTACMPMPRMSTFQESFDSKDKVKEIELQSDYLGNSTEADWVYTGWVDYYDNSLLIQMPNHTTGTVVSSTKYLWYGKVGATLKTSHDGGVVTAFILFSDVQDEIDYEFVGYNLTNPQSNYYSQGILNYNNSRNSSVNNTFEYYHNYEMDWTEDKIEWYIDGEKVRTLNKNDTWNETSNRYDYPQTPSRIQFSLWPGGDSSNAKGTIEWAGGLINWDSEDIKKYGYYYAHIKEIYATAYDIPNDVKLDGNSTKESDYHAFLYNSTDGDASNIMLTTKKTWLGSDDATGFDPQNDDEDSSSNKAQETTITSVSGSSTITSVKTDSTKKTANVPAQNTAAAAQATAKSSTGTNTYDPSAGVGGFVQDSKSTDSGSSGSSSQGVANSLNESVISGIFASICLGILSFFM |
| 4710 | sp|Q63666|VAMP1\_RAT | MSAPAQPPAEGTEGAAPGGGPPGPPPNTTSNRRLQQTQAQVEEVVDIMRVNVDKVLERDQKLSELDDRADALQAGASVFESSAAKLKRKYWWKNCKMMIMLGAICAIIVVVIVIYIFT |
| 4711 | sp|O43895|XPP2\_HUMAN | MARAHWGCCPWLVLLCACAWGHTKPVDLGGQDVRNCSTNPPYLPVTVVNTTMSLTALRQQMQTQNLSAYIIPGTDAHMNEYIGQHDERRAWITGFTGSAGTAVVTMKKAAVWTDSRYWTQAERQMDCNWELHKEVGTTPIVTWLLTEIPAGGRVGFDPFLLSIDTWESYDLALQGSNRQLVSITTNLVDLVWGSERPPVPNQPIYALQEAFTGSTWQEKVSGVRSQMQKHQKVPTAVLLSALEETAWLFNLRASDIPYNPFFYSYTLLTDSSIRLFANKSRFSSETLSYLNSSCTGPMCVQIEDYSQVRDSIQAYSLGDVRIWIGTSYTMYGIYEMIPKEKLVTDTYSPVMMTKAVKNSKEQALLKASHVRDAVAVIRYLVWLEKNVPKGTVDEFSGAEIVDKFRGEEQFSSGPSFETISASGLNAALAHYSPTKELNRKLSSDEMYLLDSGGQYWDGTTDITRTVHWGTPSAFQKEAYTRVLIGNIDLSRLIFPAATSGRMVEAFARRALWDAGLNYGHGTGHGIGNFLCVHEWPVGFQSNNIAMAKGMFTSIEPGYYKDGEFGIRLEDVALVVEAKTKYPGSYLTFEVVSFVPYDRNLIDVSLLSPEHLQYLNRYYQTIREKVGPELQRRQLLEEFEWLQQHTEPLAARAPDTASWASVLVVSTLAILGWSV |
| 4712 | sp|P67444|XANQ\_ECOLI | MSDINHAGSDLIFELEDRPPFHQALVGAITHLLAIFVPMVTPALIVGAALQLSAETTAYLVSMAMIASGIGTWLQVNRYGIVGSGLLSIQSVNFSFVTVMIALGSSMKSDGFHEELIMSSLLGVSFVGAFLVVGSSFILPYLRRVITPTVSGIVVLMIGLSLIKVGIIDFGGGFAAKSSGTFGNYEHLGVGLLVLIVVIGFNCCRSPLLRMGGIAIGLCVGYIASLCLGMVDFSSMRNLPLITIPHPFKYGFSFSFHQFLVVGTIYLLSVLEAVGDITATAMVSRRPIQGEEYQSRLKGGVLADGLVSVIASAVGSLPLTTFAQNNGVIQMTGVASRYVGRTIAVMLVILGLFPMIGGFFTTIPSAVLGGAMTLMFSMIAIAGIRIIITNGLKRRETLIVATSLGLGLGVSYDPEIFKILPASIYVLVENPICAGGLTAILLNIILPGGYRQENVLPGITSAEEMD |
| 4713 | sp|Q8L4H0|WEE1\_ARATH | MFEKNGRTLLAKRKTQGTIKTRASKKIRKMEGTLERHSLLQFGQLSKISFENRPSSNVASSAFQGLLDSDSSELRNQLGSADSDANCGEKDFILSQDFFCTPDYITPDNQNLMSGLDISKDHSPCPRSPVKLNTVKSKRCRQESFTGNHSNSTWSSKHRVDEQENDDIDTDEVMGDKLQANQTERTGYVSQAAVALRCRAMPPPCLKNPYVLNQSETATDPFGHQRSKCASFLPVSTSGDGLSRYLTDFHEIRQIGAGHFSRVFKVLKRMDGCLYAVKHSTRKLYLDSERRKAMMEVQALAALGFHENIVGYYSSWFENEQLYIQLELCDHSLSALPKKSSLKVSEREILVIMHQIAKALHFVHEKGIAHLDVKPDNIYIKNGVCKLGDFGCATRLDKSLPVEEGDARYMPQEILNEDYEHLDKVDIFSLGVTVYELIKGSPLTESRNQSLNIKEGKLPLLPGHSLQLQQLLKTMMDRDPKRRPSARELLDHPMFDRIRG |
| 4714 | sp|Q86Y38|XYLT1\_HUMAN | MVAAPCARRLARRSHSALLAALTVLLLQTLVVWNFSSLDSGAGERRGGAAVGGGEQPPPAPAPRRERRDLPAEPAAARGGGGGGGGGGGGRGPQARARGGGPGEPRGQQPASRGALPARALDPHPSPLITLETQDGYFSHRPKEKVRTDSNNENSVPKDFENVDNSNFAPRTQKQKHQPELAKKPPSRQKELLKRKLEQQEKGKGHTFPGKGPGEVLPPGDRAAANSSHGKDVSRPPHARKTGGSSPETKYDQPPKCDISGKEAISALSRAKSKHCRQEIGETYCRHKLGLLMPEKVTRFCPLEGKANKNVQWDEDSVEYMPANPVRIAFVLVVHGRASRQLQRMFKAIYHKDHFYYIHVDKRSNYLHRQVLQVSRQYSNVRVTPWRMATIWGGASLLSTYLQSMRDLLEMTDWPWDFFINLSAADYPIRTNDQLVAFLSRYRDMNFLKSHGRDNARFIRKQGLDRLFLECDAHMWRLGDRRIPEGIAVDGGSDWFLLNRRFVEYVTFSTDDLVTKMKQFYSYTLLPAESFFHTVLENSPHCDTMVDNNLRITNWNRKLGCKCQYKHIVDWCGCSPNDFKPQDFHRFQQTARPTFFARKFEAVVNQEIIGQLDYYLYGNYPAGTPGLRSYWENVYDEPDGIHSLSDVTLTLYHSFARLGLRRAETSLHTDGENSCRYYPMGHPASVHLYFLADRFQGFLIKHHATNLAVSKLETLETWVMPKKVFKIASPPSDFGRLQFSEVGTDWDAKERLFRNFGGLLGPMDEPVGMQKWGKGPNVTVTVIWVDPVNVIAATYDILIESTAEFTHYKPPLNLPLRPGVWTVKILHHWVPVAETKFLVAPLTFSNRQPIKPEEALKLHNGPLRNAYMEQSFQSLNPVLSLPINPAQVEQARRNAASTGTALEGWLDSLVGGMWTAMDICATGPTACPVMQTCSQTAWSSFSPDPKSELGAVKPDGRLR |
| 4715 | sp|Q9W266|WDP\_DROME | MERVHLTAWLALFLIVVANATPTPARTPTGCPADCTCSLSQHTHKPLYHLKCNSTRGLRLTEKTFQSTVPVHSIDLSHLNLTRLSHLLDKLPELTSADLSHNQLKDLGHLGKGLKRLNLKHNQLTSDKLRKLPQHLQVLNLQHNNITHLPLELTHMHQLHQLELSHNAINCSCQTLEVRNWLVERIVYMEHPVVCSYPLEFRGRSWLQLKQDEICKKEKYQWFDTEENELMMGDQPAAVSAEREDEEELGKDFLPIVGNPAATAKKVRSPQIPLPSDQVEGSGDLSETNMELKLPEETVAEPEAAESQLVDAAASPSVLEEHIVKDEDEDDEGSGSGGGLLIIPDPSKVKITSEDDIDSDGKPEESDVRPLENPENSENPDTVFSNKIGIYEGDQEEKKPVEEDNIVPVVMTNLDTGLESDVVTDGPLDSSKESEDILTAKIGKPKDDSSAIYYLLAVIGLIVVGLVLFVAIKRCKYDSNAAARDAEAQRQTELLDMDKKQLGKPLHKNGHGNGQEHSPLIGEKTKLDEAQIVKKPYENGEAKDGAGQQPLLNGNGSANGGTKEAPETGEPAAHEYYPITPRYPTPQSPRASKYAQQQQLAEQNNNEPDGAYLPSSPKSGRYSPVYSPETGRVKIKLTETPKPKTPMLVTRSKSNAGDIITTPVRPIEPTHQVINGH |
| 4716 | sp|O15537|XLRS1\_HUMAN | MSRKIEGFLLLLLFGYEATLGLSSTEDEGEDPWYQKACKCDCQGGPNALWSAGATSLDCIPECPYHKPLGFESGEVTPDQITCSNPEQYVGWYSSWTANKARLNSQGFGCAWLSKFQDSSQWLQIDLKEIKVISGILTQGRCDIDEWMTKYSVQYRTDERLNWIYYKDQTGNNRVFYGNSDRTSTVQNLLRPPIISRFIRLIPLGWHVRIAIRMELLECVSKCA |
| 4717 | sp|Q55AN8|Y1806\_DICDI | MHTGEYSELLIGINGHMKKITLKLKNNLEEDQYSNCVKYGWIEKRCGKNQSFSSWKRMWFILKDSKLTYYIKEKNLKKRSSTIGSTQEFFKQQHGIDNNNCTNSNSNNNNNNSDLIHLSAPSLSSSTSSTISPISSSSSLTTTTTTTTTTTNANTNNGLSDSINHVYLEGELGKKKEGKGWKVRWMKLLEHSLVYYKSSKDKEPLGIVNLNECQDCEVNKESSNKFVVVHSSNRYYFKTNTKQELTQWVKSVKSRIPSINQTKMDLDQFQLKGVIEFNSIQQIAETFKFNSQPNCLTITTDEKAYYLSFDSNKDKLDWLNQLNLTINKFKGGFNSGGGSNNSSPSSLQSQQAKESGNGGSLSPNILGNFKSSIKPWRFSSSPSQGRVSIGGGGDRSSTQVKFVDNPLSKSSNKEEFDGGEYGSQILPRKSTIIGPNGGVKVSTSGAVELSPVLISSNNNNNNTISSSGNSIPTCLSDLINESSDNEDGDDLKMMIPESLKNEMMRRSAISSLKNFKLEIFIWSNHQEVFTFLFSDSVLVDQVKAFAFKKIPSLANLSVLDYRLGIDEDTLLEVEFLKFIYSHTMVELALKTCGIVKIGIFHHRKDRRVKEKLYSDKFYGHLLSQSPDGRKGNGVGIGGNGIPIEYSRSEPNLQSCLSSSPSTRETMVPSSPSSHQLITPPPSLKQYEQQLSSSSSSSSQQLQLQLQQQEQEQLLQEQPEAEQSQPEPQPQLEPESEIEIEELEQPIEELLNISTTPISIRSNSILSSSTSASSSPSSTPSLTPVIERQQKMSAAGWHSVNPSVTLNQRRQLISGCPGWNIEVSNPTSTFTSQGFKPKFDKQEHGFYRRYNFDGTSTVQSFLGVDMKMGPLAFSLAKDANDNYRGVLHTKHGAKTISEDSKNIVGILNLLSLSKKVKTKKVVSHLIGLLDPSIDAKLLNLASNQSELQKELLSFEERQTTSGFKFGMVYCRHGQVTDDEIFSNKQGSPEWDEFLSLIGDKIELVGWPHYSAGLDVKFNSTGTHSLYTDYHGNEVMFHVSTMLPFSTTDYQQIERKRQVGNDICVVIFNDGTLSYMPNTITSQFNHVIILVQYDKQNNGYKVSMACKDGVKSPFEPLSPNNLIKKSDIKDFILTKLINGELASLQAPVFASKITRTRESLLNYYISQFL |
| 4718 | sp|C0LGU5|Y5457\_ARATH | MEISLMKFLFLGIWVYYYSVLDSVSAMDSLLSPKGVNYEVAALMSVKNKMKDEKEVLSGWDINSVDPCTWNMVGCSSEGFVVSLEMASKGLSGILSTSIGELTHLHTLLLQNNQLTGPIPSELGQLSELETLDLSGNRFSGEIPASLGFLTHLNYLRLSRNLLSGQVPHLVAGLSGLSFLDLSFNNLSGPTPNISAKDYRIVGNAFLCGPASQELCSDATPVRNATGLSEKDNSKHHSLVLSFAFGIVVAFIISLMFLFFWVLWHRSRLSRSHVQQDYEFEIGHLKRFSFREIQTATSNFSPKNILGQGGFGMVYKGYLPNGTVVAVKRLKDPIYTGEVQFQTEVEMIGLAVHRNLLRLFGFCMTPEERMLVYPYMPNGSVADRLRDNYGEKPSLDWNRRISIALGAARGLVYLHEQCNPKIIHRDVKAANILLDESFEAIVGDFGLAKLLDQRDSHVTTAVRGTIGHIAPEYLSTGQSSEKTDVFGFGVLILELITGHKMIDQGNGQVRKGMILSWVRTLKAEKRFAEMVDRDLKGEFDDLVLEEVVELALLCTQPHPNLRPRMSQVLKVLEGLVEQCEGGYEARAPSVSRNYSNGHEEQSFIIEAIELSGPR |
| 4719 | sp|Q1L8J7|YAP1\_DANRE | MDPNQHNPPAGHQIVHVRGDSETDLEALFNAVMNPKNTIVPPSVPMRLRKLPDSFFTPPEPKSHSRQASTDAGTAGTVTPHHVRAHSSPASLQLGAVSPGALTSMGPANAPPQHLRQSSYEIPDDMPLPPGWEMAKTPSGQRYFLNHNDQTTTWQDPRKALLQMNQAAPASPVPVQQQNIMNPASGPLPDGWEQAITSEGEIYYINHKNKTTSWLDPRLDPRFAMNQQRISQSAPVKQGSQLPSSPQSGVMSGNNPIRLQQIHIEKERLRIKQELLRQRPQELALRNQLPTSMEQDGGTQNPVSSPGMGQDARNMTTNSSDPFLNSGTYHSRDESTDSGLSMSSYSVPRTPDDFLNSVDEMETGDTLGPGSMATQPSRFPDYLDAIPGTDVDLGTLEGESMAVEGEELMPSLQEALSSDILNDMESVLAATKIDKENFLTWL |
| 4720 | sp|P46937|YAP1\_HUMAN | MDPGQQPPPQPAPQGQGQPPSQPPQGQGPPSGPGQPAPAATQAAPQAPPAGHQIVHVRGDSETDLEALFNAVMNPKTANVPQTVPMRLRKLPDSFFKPPEPKSHSRQASTDAGTAGALTPQHVRAHSSPASLQLGAVSPGTLTPTGVVSGPAATPTAQHLRQSSFEIPDDVPLPAGWEMAKTSSGQRYFLNHIDQTTTWQDPRKAMLSQMNVTAPTSPPVQQNMMNSASGPLPDGWEQAMTQDGEIYYINHKNKTTSWLDPRLDPRFAMNQRISQSAPVKQPPPLAPQSPQGGVMGGSNSNQQQQMRLQQLQMEKERLRLKQQELLRQAMRNINPSTANSPKCQELALRSQLPTLEQDGGTQNPVSSPGMSQELRTMTTNSSDPFLNSGTYHSRDESTDSGLSMSSYSVPRTPDDFLNSVDEMDTGDTINQSTLPSQQNRFPDYLEAIPGTNVDLGTLEGDGMNIEGEELMPSLQEALSSDILNDMESVLAATKLDKESFLTWL |
| 4721 | sp|Q12112|YN11B\_YEAST | MESQQLSQHSPISHGSACASVTSKEVHTNQDPLDVSASKIQEYDKASTKANSQQTTTPASSAVPENPHHASPQTAQSHSPQNGPYQQQCMMTQNQANPSGWSFYGRPSMIPYTPYQMSPMYFPPGPHSQFPQYPSSVGTPLSTPSPESGNTFTDSSSADSDMTSTKKYVRPPPMLTSPNDFLNWVKTYIKFLQNSNLGDIIPTATRKAVRQMTDDELTFLCHTFQLFAPSQFLPTWVKDILSADYTDIMKILSKSINKMQSDTQEVNDITTLATLHYNGSTPADAFEAEVTNILDRLNNNGIPINNKVACQFIMRGLSGEYKFLRYARHRYIHMTVADLFSDIHSMYEEQQESKRNKSTYRRNPSDEKKDSRTYTNTTKPKSITRNSQKPNNSQSRTARAHNVSTSNNSSGPDNDLIRGSTTEPIQLKNKHDLHLGQELTESTVNHTNHSDDELPGHLLLDSGASRTLIRSAHHIHSASSNPGINVVDAQKRNIPINAIGDLQFHFQDNTKTSIKVLHTPNIAYDLLSLNELAAVDITACFTKNVLERSDGTVLAPIVKYGDFYWVSKKYLLPSNISVPTINNVHTSESTRKYPYPFIHRMLAHANAQTIRYSLKNNTITYFNESDVDWSSAIDYQCPDCLIGKSTKHRHIKGSRLKYQNSYEPFQYLHTDIFGPVHNLPKSAPSYFISFTDETTKFRWVYPLHDRREDSILDVFTTILAFIKNQFQASVLVIQMDRGSEYTNRTLHKFLEKNGITPCYTTTADSRAHGVAERLNRTLLDDCRTQLQCSGLPNHLWFSAIEFSTIVRNSLASPKSKKSARQHAGLAGLDISTLLPFGQPVIVNDHNPNSKIHPRGIPGYALHPSRNSYGYIIYLPSLKKTVDTTNYVILQGKESRLDQFNYDALTFDEDLNRLTASYQSFIASNEIQQSDDLNIESDHDFQSDIELHPEQPRNVLSKAVSPTDSTPPSTHTEDSKRVSKTNIRAPREVDPNISKSNILPSKKRSSTPQISDIESTGSGGMHRLDVPLLAPMSQYNTHESSHTSKSKDFRHSDSYSDNETNHTNVPISSTGGTNNKTVPQTSEQETEKRIIHRSPSIDTSSSESNSLHHVVPIKTSDTCPKENTEESIIADLPLPDLPPEPPTKLSDSFKELPPINSRQTNSSLGGIGDSNAYTTINSKKRSLEDNETEIKVSRDTWNTKNMRSLEPPRSKKRIHLIAAVKAVKSIKPIRTTLRYDEAITYNKDIKEKEKYIEAYHKEVNQLLKMKTWDTDRYYDRKEIDPKRVINSMFIFNRKRDGTHKARFVARGDIQHPDTYDSGMQSNTVHHYALMTSLSLALDNNYYITQLDISSAYLYADIKEELYIRPPPHLGMNDKLIRLKKSLYGLKQSGANWYETIKSYLIQQCGMEEVRGWSCVFKNSQVTICLFVDDMVLFSKNLNSNKRIIEKLKMQYDTKIINLGESDEEIQYDILGLEIKYQRGKYMKLGMENSLTEKIPKLNVPLNPKGRKLSAPGQPGLYIDQQELELEEDDYKMKVHEMQKLIGLASYVGYKFRFDLLYYINTLAQHILFPSKQVLDMTYELIQFIWNTRDKQLIWHKSKPVKPTNKLVVISDASYGNQPYYKSQIGNIYLLNGKVIGGKSTKASLTCTSTTEAEIHAISESVPLLNNLSYLIQELDKKPITKGLLTDSKSTISIIISNNEEKFRNRFFGTKAMRLRDEVSGNHLHVCYIETKKNIADVMTKPLPIKTFKLLTNKWIH |
| 4722 | sp|P38555|YPT31\_YEAST | MSSEDYGYDYDLLFKIVLIGDSGVGKSNLLSRFTKNEFNMDSKSTIGVEFATRTLEIDGKRIKAQIWDTAGQERYRAITSAYYRGAVGALIVYDISKSSSYENCNHWLSELRENADDNVAVGLIGNKSDLAHLRAVPTEESKTFAQENQLLFTETSALNSENVDKAFEELINTIYQKVSKHQMDLGDSSANGNANGASAPNGPTISLTPTPNENKKANGNNCC |
| 4723 | sp|Q8TAD4|ZNT5\_HUMAN | MEEKYGGDVLAGPGGGGGLGPVDVPSARLTKYIVLLCFTKFLKAVGLFESYDLLKAVHIVQFIFILKLGTAFFMVLFQKPFSSGKTITKHQWIKIFKHAVAGCIISLLWFFGLTLCGPLRTLLLFEHSDIVVISLLSVLFTSSGGGPAKTRGAAFFIIAVICLLLFDNDDLMAKMAEHPEGHHDSALTHMLYTAIAFLGVADHKGGVLLLVLALCCKVGFHTASRKLSVDVGGAKRLQALSHLVSVLLLCPWVIVLSVTTESKVESWFSLIMPFATVIFFVMILDFYVDSICSVKMEVSKCARYGSFPIFISALLFGNFWTHPITDQLRAMNKAAHQESTEHVLSGGVVVSAIFFILSANILSSPSKRGQKGTLIGYSPEGTPLYNFMGDAFQHSSQSIPRFIKESLKQILEESDSRQIFYFLCLNLLFTFVELFYGVLTNSLGLISDGFHMLFDCSALVMGLFAALMSRWKATRIFSYGYGRIEILSGFINGLFLIVIAFFVFMESVARLIDPPELDTHMLTPVSVGGLIVNLIGICAFSHAHSHAHGASQGSCHSSDHSHSHHMHGHSDHGHGHSHGSAGGGMNANMRGVFLHVLADTLGSIGVIVSTVLIEQFGWFIADPLCSLFIAILIFLSVVPLIKDACQVLLLRLPPEYEKELHIALEKIQKIEGLISYRDPHFWRHSASIVAGTIHIQVTSDVLEQRIVQQVTGILKDAGVNNLTIQVEKEAYFQHMSGLSTGFHDVLAMTKQMESMKYCKDGTYIM |
| 4724 | sp|O14978|ZN263\_HUMAN | MASGPGSQEREGLLIVKLEEDCAWSQELPPPDPGPSPEASHLRFRRFRFQEAAGPREALSRLQELCHGWLRPEMRTKEQILELLVLEQFLTILPQEIQSRVQELHPESGEEAVTLVEDMQRELGRLRQQVTNHGRGTEVLLEEPLPLETARESPSFKLEPMETERSPGPRLQELLGPSPQRDPQAVKERALSAPWLSLFPPEGNMEDKEMTGPQLPESLEDVAMYISQEEWGHQDPSKRALSRDTVQESYENVDSLESHIPSQEVPGTQVGQGGKLWDPSVQSCKEGLSPRGPAPGEEKFENLEGVPSVCSENIHPQVLLPDQARGEVPWSPELGRPHDRSQGDWAPPPEGGMEQALAGASSGRELGRPKELQPKKLHLCPLCGKNFSNNSNLIRHQRIHAAERLCMGVDCTEIFGGNPRFLSLHRAHLGEEAHKCLECGKCFSQNTHLTRHQRTHTGEKPYQCNICGKCFSCNSNLHRHQRTHTGEKPYKCPECGEIFAHSSNLLRHQRIHTGERPYKCPECGKSFSRSSHLVIHERTHERERLYPFSECGEAVSDSTPFLTNHGAHKAEKKLFECLTCGKSFRQGMHLTRHQRTHTGEKPYKCTLCGENFSHRSNLIRHQRIHTGEKPYTCHECGDSFSHSSNRIRHLRTHTGERPYKCSECGESFSRSSRLMSHQRTHTG |
| 4725 | sp|Q9P2F9|ZN319\_HUMAN | MSESWQQPPQTQPQQPQPPQPQHHAEPPPALAEHTLPPGTAENPLGCAVYGILLQPDPGLQPPQHAPLQAAGEPGPKCGVCGHDLAHLSSPHEHQCLAGHDRSFQCTQCLKIFHQATDLLEHQCVQAEQKPFVCGVCKMGFSLLTSLAQHHSSHSGLVKCSICEKTYKPAEAAEPATTAAPSLPAAPAPSTVTPAEQADKPYSCPICQKPFKHLSELSRHERIHTGEKPYKCTLCDKSFSQSSHLVHHKRTHSSERPYKCAVCEKTFKHRSHLVRHMYAHSGEHHLFRCNVCELHFKESSELLQHPCTPSGERPFRCGECQKAFKRPSDLRQHERTHSAERPFKCDLCPMGFKQQYALMRHRRTHKTEEPFKCGLCEKGFGQPSHLLYHQHVHTLETLFKCPVCQKGFDQSAELLRHKCLPGAAERPFKCPVCNKAYKRASALQKHQLAHCAAAEKPLRCTLCERRFFSSSEFVQHRCDPAREKPLKCPDCEKRFKYASDLQRHRRVHTGEKPYKCPNCDKAFKQREHLNKHQGVHAREQQFKCVWCGERFLDVALLQEHSAQHSAAAAAAEGAYQVAACLP |
| 4726 | sp|A0JPL0|ZN382\_RAT | MNCHSVPLQGPVSFKDVTVDFTQEEWQRLDPAQKALYRDVMLENYCHFISVGFHITKPDMIRKLEQGEELWTERMFPSQSYLEDEEVLVKFRDYQDKPPTSIVIINHKKLIKERNNVYEKTLGNNHIISKTLFEYKSDGKVLKNISDFISRDINPVMGTLGDSSEWEESVLTSEQEKTHPVPTLYKQIGRNLSSSLELAQHQKTQIPEQRFECDECDSSFLMTEVAFPHDRAHRGVRDFNCSKDEIAFFEKSDLGIHPHNLMEKKCSTYNKYGKLLCRKSVFVMHPRSQVDERPFQCPYCGNSFRRKSYLIEHQRIHTGEKPYICSQCGKAFRQKTALTLHEKTHTDGKPYLCVDCGKSFRQKATLTRHHKTHTGEKAYECTQCGSAFGKKSYLIDHQRTHTGEKPYQCAECGKAFIQKTTLTVHQRTHTGEKPYMCSECGKSFCQKTTLTLHQRIHTGEKPYVCSDCGKSFRQKAILTVHYRIHTGEKSNGCPQCGKAFSRKSNLIRHQKTHTGEKPYECHECGKFFSCKSNLVAHQKTHKAETVRFQ |
| 4727 | sp|Q6X786|ZPBP2\_MOUSE | MLAWALLYAVLWSLAGVGSQRSSLFNIKGFVYGTVGHPVKIYVKLHQASPVLICMDIDRANKETVDPTYLWTGPNENTLKGNSQINITNTGELVLKDFLEPLSGLYSCMLSYKTIKAETQEETMIKKKYDFLVFAYREPDYSYHMAVRFTTGSCVGRHNDLLFRVLKKILDNLISDLLCHVIEPSYKCHFVKLPERDFLYELFIAFQVNPFAPGWRSLCNRSADCEDITNHNVLKARDRMEEFFRKQAHILHHHFNRTVPAMHFVDHSFQVTRIDNCRPGFGKNEGLHSNCATCCVVCSPGTFSPDVDVTCQICVSVHIYGAKACP |
| 4728 | sp|Q9H869|YYAP1\_HUMAN | MEEEASRSAAATNPGSRLTRWPPPDKREGSAVDPGKRRSLAATPSSSLPCTLIALGLRHEKEANELMEDLFETFQDEMGFSNMEDDGPEEEERVAEPQANFNTPQALRFEELLANLLNEQHQIAKELFEQLKMKKPSAKQQKEVEKVKPQCKEVHQTLILDPAQRKRLQQQMQQHVQLLTQIHLLATCNPNLNPEASSTRICLKELGTFAQSSIALHHQYNPKFQTLFQPCNLMGAMQLIEDFSTHVSIDCSPHKTVKKTANEFPCLPKQVAWILATSKVFMYPELLPVCSLKAKNPQDKILFTKAEDNKYLLTCKTARQLTVRIKNLNMNRAPDNIIKFYKKTKQLPVLGKCCEEIQPHQWKPPIEREEHRLPFWLKASLPSIQEELRHMADGAREVGNMTGTTEINSDQGLEKDNSELGSETRYPLLLPKGVVLKLKPVADRFPKKAWRQKRSSVLKPLLIQPSPSLQPSFNPGKTPAQSTHSEAPPSKMVLRIPHPIQPATVLQTVPGVPPLGVSGGESFESPAALPAMPPEARTSFPLSESQTLLSSAPVPKVMMPSPASSMFRKPYVRRRPSKRRGARAFRCIKPAPVIHPASVIFTVPATTVKIVSLGGGCNMIQPVNAAVAQSPQTIPIATLLVNPTSFPCPLNQPLVASSVSPLIVSGNSVNLPIPSTPEDKAHMNVDIACAVADGENAFQGLEPKLEPQELSPLSATVFPKVEHSPGPPPVDKQCQEGLSENSAYRWTVVKTEEGRQALEPLPQGIQESLNNSSPGDLEEVVKMEPEDATEEISGFL |
| 4729 | sp|Q2M1K9|ZN423\_HUMAN | MHKKRVEEGEASDFSLAWDSSVTAAGGLEGEPECDQKTSRALEDRNSVTSQEERNEDDEDMEDESIYTCDHCQQDFESLADLTDHRAHRCPGDGDDDPQLSWVASSPSSKDVASPTQMIGDGCDLGLGEEEGGTGLPYPCQFCDKSFIRLSYLKRHEQIHSDKLPFKCTYCSRLFKHKRSRDRHIKLHTGDKKYHCHECEAAFSRSDHLKIHLKTHSSSKPFKCTVCKRGFSSTSSLQSHMQAHKKNKEHLAKSEKEAKKDDFMCDYCEDTFSQTEELEKHVLTRHPQLSEKADLQCIHCPEVFVDENTLLAHIHQAHANQKHKCPMCPEQFSSVEGVYCHLDSHRQPDSSNHSVSPDPVLGSVASMSSATPDSSASVERGSTPDSTLKPLRGQKKMRDDGQGWTKVVYSCPYCSKRDFNSLAVLEIHLKTIHADKPQQSHTCQICLDSMPTLYNLNEHVRKLHKNHAYPVMQFGNISAFHCNYCPEMFADINSLQEHIRVSHCGPNANPSDGNNAFFCNQCSMGFLTESSLTEHIQQAHCSVGSAKLESPVVQPTQSFMEVYSCPYCTNSPIFGSILKLTKHIKENHKNIPLAHSKKSKAEQSPVSSDVEVSSPKRQRLSASANSISNGEYPCNQCDLKFSNFESFQTHLKLHLELLLRKQACPQCKEDFDSQESLLQHLTVHYMTTSTHYVCESCDKQFSSVDDLQKHLLDMHTFVLYHCTLCQEVFDSKVSIQVHLAVKHSNEKKMYRCTACNWDFRKEADLQVHVKHSHLGNPAKAHKCIFCGETFSTEVELQCHITTHSKKYNCKFCSKAFHAIILLEKHLREKHCVFDAATENGTANGVPPMATKKAEPADLQGMLLKNPEAPNSHEASEDDVDASEPMYGCDICGAAYTMEVLLQNHRLRDHNIRPGEDDGSRKKAEFIKGSHKCNVCSRTFFSENGLREHLQTHRGPAKHYMCPICGERFPSLLTLTEHKVTHSKSLDTGTCRICKMPLQSEEEFIEHCQMHPDLRNSLTGFRCVVCMQTVTSTLELKIHGTFHMQKLAGSSAASSPNGQGLQKLYKCALCLKEFRSKQDLVKLDVNGLPYGLCAGCMARSANGQVGGLAPPEPADRPCAGLRCPECSVKFESAEDLESHMQVDHRDLTPETSGPRKGTQTSPVPRKKTYQCIKCQMTFENEREIQIHVANHMIEEGINHECKLCNQMFDSPAKLLCHLIEHSFEGMGGTFKCPVCFTVFVQANKLQQHIFAVHGQEDKIYDCSQCPQKFFFQTELQNHTMSQHAQ |
| 4730 | sp|P00684|RNS1B\_RAT | MGLEKSLFLFSLLVLVLGWVQPSLGGESRESSADKFKRQHMDTEGPSKSSPTYCNQMMKRQGMTKGSCKPVNTFVHEPLEDVQAICSQGQVTCKNGRNNCHKSSSTLRITDCRLKGSSKYPNCDYTTTDSQKHIIIACDGNPYVPVHFDASV |
| 4731 | sp|Q91ZQ5|RPE65\_MOUSE | MSIQIEHPAGGYKKLFETVEELSSPLTAHVTGRIPLWLTGSLLRCGPGLFEVGSEPFYHLFDGQALLHKFDFKEGHVTYHRRFIRTDAYVRAMTEKRIVITEFGTCAFPDPCKNIFSRFFSYFKGVEVTDNALVNIYPVGEDYYACTETNFITKINPETLETIKQVDLCNYISVNGATAHPHIESDGTVYNIGNCFGKNFTVAYNIIKIPPLKADKEDPINKSEVVVQFPCSDRFKPSYVHSFGLTPNYIVFVETPVKINLFKFLSSWSLWGANYMDCFESNESMGVWLHVADKKRRKYFNNKYRTSPFNLFHHINTYEDNGFLIVDLCCWKGFEFVYNYLYLANLRENWEEVKRNAMKAPQPEVRRYVLPLTIDKVDTGRNLVTLPHTTATATLRSDETIWLEPEVLFSGPRQAFEFPQINYQKFGGKPYTYAYGLGLNHFVPDKLCKMNVKTKEIWMWQEPDSYPSEPIFVSQPDALEEDDGVVLSVVVSPGAGQKPAYLLVLNAKDLSEIARAEVETNIPVTFHGLFKRS |
| 4732 | sp|P62841|RS15\_HUMAN | MAEVEQKKKRTFRKFTYRGVDLDQLLDMSYEQLMQLYSARQRRRLNRGLRRKQHSLLKRLRKAKKEAPPMEKPEVVKTHLRDMIILPEMVGSMVGVYNGKTFNQVEIKPEMIGHYLGEFSITYKPVKHGRPGIGATHSSRFIPLK |
| 4733 | sp|P26786|RS7A\_YEAST | MSAPQAKILSQAPTELELQVAQAFVELENSSPELKAELRPLQFKSIREIDVAGGKKALAIFVPVPSLAGFHKVQTKLTRELEKKFQDRHVIFLAERRILPKPSRTSRQVQKRPRSRTLTAVHDKILEDLVFPTEIVGKRVRYLVGGNKIQKVLLDSKDVQQIDYKLESFQAVYNKLTGKQIVFEIPSETH |
| 4734 | sp|P50117|S10A9\_RABIT | MSCGMSQLERSIDTIINVFHQYSVRVGPRDSLSQKEFKQLVQKELHNFLKKEARDEKAINDIMEDLDTNQDKQLSFEEFVILMARLVHASHEEMHKNAPHDHEGHSHGPGLGGGGPGHGHGHSHGHGHGHSH |
| 4735 | sp|O81126|RSZ22\_ARATH | MSRVYVGNLDPRVTERELEDEFRAFGVVRSVWVARRPPGYAFLDFEDPRDARDAIRALDGKNGWRVEQSHNRGERGGGGRGGDRGGGGGGRGGRGGSDLKCYECGETGHFARECRNRGGTGRRRSKSRSRTPPRYRRSPSYGRRSYSPRARSPPPPRRRSPSPPPARGRSYSRSPPPYRAREEVPYANGNGLKERRRSRS |
| 4736 | sp|P39940|RSP5\_YEAST | MPSSISVKLVAAESLYKRDVFRSPDPFAVLTIDGYQTKSTSAAKKTLNPYWNETFKFDDINENSILTIQVFDQKKFKKKDQGFLGVVNVRVGDVLGHLDEDTATSSGRPREETITRDLKKSNDGMAVSGRLIVVLSKLPSSSPHSQAPSGHTASSSTNTSSTTRTNGHSTSSTRNHSTSHPSRGTAQAVESTLQSGTTAATNTATTSHRSTNSTSSATRQYSSFEDQYGRLPPGWERRTDNFGRTYYVDHNTRTTTWKRPTLDQTEAERGNQLNANTELERRQHRGRTLPGGSSDNSSVTVQVGGGSNIPPVNGAAAAAFAATGGTTSGLGELPSGWEQRFTPEGRAYFVDHNTRTTTWVDPRRQQYIRTYGPTNTTIQQQPVSQLGPLPSGWEMRLTNTARVYFVDHNTKTTTWDDPRLPSSLDQNVPQYKRDFRRKVIYFRSQPALRILPGQCHIKVRRKNIFEDAYQEIMRQTPEDLKKRLMIKFDGEEGLDYGGVSREFFFLLSHEMFNPFYCLFEYSAYDNYTIQINPNSGINPEHLNYFKFIGRVVGLGVFHRRFLDAFFVGALYKMMLRKKVVLQDMEGVDAEVYNSLNWMLENSIDGVLDLTFSADDERFGEVVTVDLKPDGRNIEVTDGNKKEYVELYTQWRIVDRVQEQFKAFMDGFNELIPEDLVTVFDERELELLIGGIAEIDIEDWKKHTDYRGYQESDEVIQWFWKCVSEWDNEQRARLLQFTTGTSRIPVNGFKDLQGSDGPRRFTIEKAGEVQQLPKSHTCFNRVDLPQYVDYDSMKQKLTLAVEETIGFGQE |
| 4737 | sp|Q9NP59|S40A1\_HUMAN | MTRAGDHNRQRGCCGSLADYLTSAKFLLYLGHSLSTWGDRMWHFAVSVFLVELYGNSLLLTAVYGLVVAGSVLVLGAIIGDWVDKNARLKVAQTSLVVQNVSVILCGIILMMVFLHKHELLTMYHGWVLTSCYILIITIANIANLASTATAITIQRDWIVVVAGEDRSKLANMNATIRRIDQLTNILAPMAVGQIMTFGSPVIGCGFISGWNLVSMCVEYVLLWKVYQKTPALAVKAGLKEEETELKQLNLHKDTEPKPLEGTHLMGVKDSNIHELEHEQEPTCASQMAEPFRTFRDGWVSYYNQPVFLAGMGLAFLYMTVLGFDCITTGYAYTQGLSGSILSILMGASAITGIMGTVAFTWLRRKCGLVRTGLISGLAQLSCLILCVISVFMPGSPLDLSVSPFEDIRSRFIQGESITPTKIPEITTEIYMSNGSNSANIVPETSPESVPIISVSLLFAGVIAARIGLWSFDLTVTQLLQENVIESERGIINGVQNSMNYLLDLLHFIMVILAPNPEAFGLLVLISVSFVAMGHIMYFRFAQNTLGNKLFACGPDAKEVRKENQANTSVV |
| 4738 | sp|P28707|SBA1\_YEAST | MSDKVINPQVAWAQRSSTTDPERNYVLITVSIADCDAPELTIKPSYIELKAQSKPHVGDENVHHYQLHIDLYKEIIPEKTMHKVANGQHYFLKLYKKDLESEYWPRLTKEKVKYPYIKTDFDKWVDEDEQDEVEAEGNDAAQGMDFSQMMGGAGGAGGAGGMDFSQMMGGAGGAGSPDMAQLQQLLAQSGGNLDMGDFKENDEEDEEEEIEPEVKA |
| 4739 | sp|Q8WWV3|RT4I1\_HUMAN | MEFLKTCVLRRNACTAVCFWRSKVVQKPSVRRISTTSPRSTVMPAWVIDKYGKNEVLRFTQNMMMPIIHYPNEVIVKVHAASVNPIDVNMRSGYGATALNMKRDPLHVKIKGEEFPLTLGRDVSGVVMECGLDVKYFKPGDEVWAAVPPWKQGTLSEFVVVSGNEVSHKPKSLTHTQAASLPYVALTAWSAINKVGGLNDKNCTGKRVLILGASGGVGTFAIQVMKAWDAHVTAVCSQDASELVRKLGADDVIDYKSGSVEEQLKSLKPFDFILDNVGGSTETWAPDFLKKWSGATYVTLVTPFLLNMDRLGIADGMLQTGVTVGSKALKHFWKGVHYRWAFFMASGPCLDDIAELVDAGKIRPVIEQTFPFSKVPEAFLKVERGHARGKTVINVV |
| 4740 | sp|Q9R053|SCNBA\_MOUSE | MEERYYPVIFPDERNFRPFTFDSLAAIEKRITIQKEKKKSKDKAATEPQPRPQLDLKASRKLPKLYGDVPPDLIAKPLEDLDPFYKDHKTFMVLNKKRTIYRFSAKRALFILGPFNPIRSFMIRISVHSVFSMFIICTVIINCMFMANNSSVDSRPSSNIPEYVFIGIYVLEAVIKILARGFIVDEFSYLRDPWNWLDFIVIGTAIAPCFLGNKVNNLSTLRTFRVLRALKAISVISGLKVIVGALLRSVKKLVDVMVLTLFCLSIFALVGQQLFMGILSQKCIKDDCGPNAFSNKDCFVKENDSEDFIMCGNWLGRRSCPDGSTCNKTTFNPDYNYTNFDSFGWSFLAMFRVMTQDSWEKLYRQILRTSGIYFVFFFVVVIFLGSFYLLNLTLAVVTMAYEEQNRNVAAETEAKEKMFQEAQQLLREEKEALVAMGIDRTSLNSLQASSFSPKKRKFFGSKTRKSFFMRGSKTARASASDSEDDASKNPQLLEQTKRLSQNLPVELFDEHVDPLHRQRALSAVSILTITMQEQEKSQEPCFPCGKNLASKYLVWECSPPWLCIKKVLQTIMTDPFTELAITICIIVNTVFLAMEHHNMDNSLKDILKIGNWVFTGIFIAEMCLKIIALDPYHYFRHGWNIFDSIVALVSLADVLFHKLSKNLSFLASLRVLRVFKLAKSWPTLNTLIKIIGHSVGALGNLTVVLTIVVFIFSVVGMRLFGAKFNKTCSTSPESLRRWHMGDFYHSFLVVFRILCGEWIENMWECMQEMEGSPLCVIVFVLIMVVGKLVVLNLFIALLLNSFSNEEKDGNPEGETRKTKVQLALDRFSRAFYFMARALQNFCCKRCRRQNSPKPNEATESFAGESRDTATLDTRSWKEYDSEMTLYTGQAGAPLAPLAKEEDDMECCGECDASPTSQPSEEAQACDLPLKTKRLPSPDDHGVEMEVFSEEDPNLTIQSARKKSDAASMLSECSTIDLNDIFRNLQKTVSPQKQPDRCFPKGLSCIFLCCKTIKKKSPWVLWWNLRKTCYQIVKHSWFESFIIFVILLSSGALIFEDVNLPSRPQVEKLLKCTDNIFTFIFLLEMILKWVAFGFRKYFTSAWCWLDFLIVVVSGLSLTNLPNLKSFRNLRALRPLRALSQFEGMKVVVNALMSAIPAILNVLLVCLIFWLIFCILGVNFFSGKFGRCINGTDINKYFNASNVPNQSQCLVSNYTWKVPNVNFDNVGNAYLALLQVATYKGWLDIMNAAVDSRGKDEQPAFEANLYAYLYFVVFIIFGSFFTLNLFIGVIIDNFNQQQKKLGGQDIFMTEEQKKYYNAMKKLGTKKPQKPIPRPLNKCQAFVFDLVTSQVFDVIILGLIVTNMIIMMAESEGQPNEVKKIFDILNIVFVVIFTVECLIKVFALRQHYFTNGWNLFDCVVVVLSIISTLVSGLENSNVFPPTLFRIVRLARIGRILRLVRAARGIRTLLFALMMSLPSLFNIGLLLFLVMFIYAIFGMNWFSKVKRGSGIDDIFNFDTFSGSMLCLFQITTSAGWDALLNPMLESKASCNSSSQESCQQPQIAIVYFVSYIIISFLIVVNMYIAVILENFNTATEESEDPLGEDDFEIFYEIWEKFDPEATQFIQYSSLSDFADALPEPLRVAKPNRFQFLMMDLPMVMGDRLHCMDVLFAFTTRVLGNSSGLDTMKAMMEEKFMEANPFKKLYEPIVTTTKRKEEEECAAVIQRAYRRHMEKMIKLKLKGRSSSSLQVFCNGDLSSLDVPKIKVHCD |
| 4741 | sp|Q9W0Y8|SCN60\_DROME | MSDDQATFNDEKAVAKHQVVAYTQRSQVKHENRHIQLVREYGFHPRTKASVEDGDVLPRKFEPFPEHMYGKPLEEIDTFIYEETFCVVSKRFRKNYIHRFTGTKSLFLFYPWSPARRVCVYIATNQFFDYCVMATILFNCIFLAMTETVEEAEYIFLAIYSIEMVIKIIAKGFLLNKYTYLRNPWNWLDFVVITSGYATIGMEVGNLAGLRTFRVLRALKTVSIMPGLKTIINALLHSFRQLAEVMTLTIFCLMVFALFALQVYMGELRNKCVRQVPTDWTNVSHTDWQIWVNDTDNWLYDEDELPVLCGNLTGARHCPFEYVCLCVGENPNHGYTNFDNFMWSMLTTFQLITLDYWENVYNMVLATCGPMSVSFFTVVVFFGSFYLINLMLAVVALSYEEEAEITNEERKKDLLDHRDDSTFSFDPSVLNVKKLNKNNKKKIDSRKGVLLASYSKKKTRRKKTKGGKEGGTNGNGNGSNGDDNKSHSATPSPGPSPRHSATERPSALTMQAQKQYQQMEQQHKLAKSGSGGSNNPMAPTPKGRISFQDSGMGVKNPNMLYPSDYKGQLIANSGQPSSNSSGVNRESSQDDSGVVDDHEEQDTTNDMGHVSTVELALSPREVRLIKCNGNIARIKNHNVYALHQEFSSEVVVIDDLPDRNCDRCVHWCTDYESWLQFQNCLYKVVRDPLFELAITLCIVLNTAFLAMEHHGMSESFRNALDVGNKVFTSIFTFECIVKLMALSKDFFLCGWNIFDLLIVTASLLDIIFELVDGLSVLRGLRLLRVLKLAQSWTTMKVLLSIIISTIGALGNLTLILVIVIYIFAVIGMQLFSKDYTPEKFDPDPVPRWNFNDFFHSFMMIFRILCGEWIEPLWDCMRAEEEQGASTCFAIFLPTLVMGNFMVLNLFLALLLNSFNSEELKSKKEEVGEESKLARSIERVRDLIRKKRQERKDRKERKFAEKFQQIVLDAQQAHAQTLSHQAAVGLERGDKPGVLAETKFHRLSYQESMNRPVSGSDFGFQIPLHDGLHTIVDGLEYDDTGDLPEQIQLQAHPLPPTSDSMPPTYESAMMATTGGSFSSVNGNGTCQNLTPFVQAERRLQHQISSGVSTQQYDSREEATYTESIELLGQYNSTDTDPYANDQRSGCGSFNRGDSLQDNSSRRYGSEEHDEAFLKYQKSLLTRSPSYRKSLDRLSQSSGQSQRSLLKSEEAEMRRHSSGQSLNSMSIEQDELLSQQGNLREELLNCDQKELFQFLQEEEELQKGTKLRRISNVMRSRRPSSQMGQPENETMVEHSEFDNIIQSFEKELEEIKRSTTSLERKLSNLSEPSPAADEATKAIMEHIAIITGASERSAADEVVLPLNPYDSYDLSSVPRRSQSVSAAAQRQSVKLKRRSLEKQRKIDEDFSISNEIRKICDQIHAPFVAMEAMAVAATSASQAQPNQSPFLRRKVDPFTVQFDRFKRLSLIERVEEVPEEEKPISTLRIESEKMPRKFLHGPDQLRLDSLSLKSTNSYENLLIQKQKLGMATPPAVPATPPTSLKSSIEPPTLAQISSLKTTPPLAALTEHQQHFHATSIQAAPTPAHTHAHSQAHAHSMAGQRRRMEHPQSTLDKAASFQSARTESHSSGAADASSALALAMAQKTEQSQSTAPDATQKPSAFTRLTEKPWHCLVSYVDDLTVGGRRNSQGAYNDPMTFPSYGATKAAKVPDDCFPQKCYDHFYFRCPWFMSCMDTQSAKHWTRVRTAVLTVVDTPAFEWFVLVLIFASSITLCFEDINLDKNKTLKRVLYWINFSFCLIFVVEMILKWLALGFSKYFTSFWTILDFIIVFVSVFSLLIEENENLKVLRSLRTLRALRPLRAISRWQGMRIVVNALMYAIPSIFNVLLVCLVFWLIFSIMGVQFFGGKFFKCVNEMGELLPITEVNDKWDCIEQNYTWINSKITFDHVGMGYLALLQVATFEGWMEVMADAVDARGVDLQPQREANLYAYIYFVIFIVCGSFFTLNLFIGVIIDNFNMLKKKYEGGVLEMFLTESQKHYYTAMKKLGRKKPQKVIKRPINHFLAMFYDLSNSRRFEIAIFVLIFLNMLTMGIEHYDQPHAVFFILEVSNAFFTTVFGLEAIVKIVGLRYHYFTVPWNVFDFLLVLASIFGILMEDIMIDLPISPTLLRVVRVFRIGRILRLIKAAKGIRKLLFALVVSLPALFNIGALLGLITFIYAILGMSLFGNVKLQGALDDMVNFQTFGRSMQLLFRLMTSAGWNDVLESLMIQPPDCDPFIHGHTNGNCGHPLLAITYFTSFIIISYMIVINMYIAIILENFNQAHQEEEIGIVEDDLEMFYIRWSKYDPHATQFIHFSQLSDFIASLDPPLGISKPNNVALVSFNLPISKGNKIHCLDILHALVKHVLGHVEETDNFKQLQEQMDVKFKKQFPTRKELEIVSSTRIWKRQEKAAKTIQTGWKEYLRRKREKERSNSGDSATQTSSPGGWQSKLSALNFFHLQVSRRGTACSSRASSRKSSRASDASDLSELAGPWLNLPLMLVSGADEVVKDIKQQNDELGKRGSIFVEAPRASRRRSFYNFFLRHQDAVDDSLTSPSVHRKTAMNNTTNTTSNSASTSGTASSTATAPATGCGPAATSASDSDRHQAVGGGSAPSRKRASSFIRKKPPLERGLSAQSALRVNKNAFVSEASAPEVIVTRPSPEQQTHPHSLSLRPDNATLVHVLVHRESEEYKEEDESSPSVSGNGNGFGVGLDMLSKQPPPQIRITTGSVESSMDTCAMPTVQIMVDSPKDPPRGDFSSAPIDDVGAPIDVNVQGDTSQVFYDYNPEKATDDQGNGQDETAQFESLPDRQR |
| 4742 | sp|O90304|SPIKE\_BRV1 | MFLCFCTAPILCLWINSGGAVVVSNESLVVCEPVSYPYSLQVLRSFSQRVNLRTKRAVTTDAWSFAYQISTSSLNVNGWYVNFTSPLGWSYPNGKLFGIVLGSDAMMRASVSTFTYDVISYVGQRPNLDCQINDLANGGLESRYSTVRVDNCGNYPCHGGGKPGCSIGHPYMANGVRTRVLLTTQSPGIQYEIYSGQDYAVYQITPYTQYTVTMPSGTSGYCQQTPLYVECGSWTPYRVHAYGCDKATQSCNYTISSDWVVAFKSKASAIILRSQLIVALAQKLSRTVGVNKAVYFWFLKQPYHYLSLVNFSPNYALFSPLCKSLRQQSATYSALSYGSPFFVAQECYNNALYLPDCCLYTLFSILFSWDYQVNYPVNNVLQANETFLQLPTTGYLGQTVSQGRMLNLFKDAIVFLDFYDTKFYRTNDGPGGDIFAVVVKQVPVIAYSAFRIEQQTGYLAVKCNGVIQATLAPHSSRVVLLARHMSMWSIAAANSTTIYCPIYTLTSFVRLDISTSWYFHTLAQPSGPIQQVSMPVLSTGAAGVYMHPMIEHWVTLLAQSSVYQPSMFNMGVNKSVTLTTQLQAYAQVYTAWFLSILYTRLPESRRLTLGAQLTPFIQALLSFKQADIDATDVDTVARYNVLILMWGRKYAAVIYNQLPEWSYPLFKGGVGDSMWFRKKFLVTTKIHQTASHFPFIAGYLDFLDYKYIPKYKDVACPLSTMVPSILQVYETPQLFVIIVQCVSTTYSWYPGLRNPHTIYRSYKLGTICVLVPYSSPTDVYSSFGFFFQSALTIPTVQTTDDILPGCVGFVQDSVFTPCHPSGCPVRNSYDNYIICPGSSASNYTLRNYYRTTTPVTNVPIEEVPLQLEIPTVSLTSYELKQSESVLLQDIEGGIVVDHNTGSIWYPGGQAYDVSFYVSVIIRYAPPKLELPSTLANFTSCLDYICFGNQQCRGEAQTFCTSMDYFEQVFNKSLTSLITALQDLHYVLKLVLPETTLELTEDTRRRRRAVDEFSDTISLLSESFERFMSPASQAYMANMMWWDEAFDGISLPQRTGSILSSAPSLSSISSWHSYSSRTPLISNVKTPKTTFNVKLSMPKLPKASTLSTIGSVLSSGLSIASLGLSIFSIIEDRRVIELTQQQIMALEDQITILAGYTTKNFEEIQSSLNTLGQQVQDFSQTSALSLQQLSNGFEQITQQLDKSIYYVMAVQQYATYMSSLVNQLNELSQAVYKTQDMYITCIHSLQSGVLSPNCITPFQICHLYQVAKNLSSGECQPILSEREISRFYSLPLVTDAMVHNDTYWFSWSIPITCSNILGSVYKVQPGYIVNPHHPTSLQYDVPTHVVTSNAGALIFDEHYCDRYNQVYLCTKSAFDLAEASYLTMLYSNQTDNSSLTFHPAPRPDPCVYLSASALYCYYSDECHQCVIAVGNCTNRTVTYENYTYPIMDPQCRGFDQITISSPIAIGADFTALPSRPPLPLHLSYVNVTFNVTLPNELNWTDLVLDYSFKDKVYEISKNITQLHEQILQVSNWASGWFQRLRDFLYGLIPAWITWLTLGFSLFSILISGVNIILFFEMNGKVKKS |
| 4743 | sp|O70551|SRPK1\_MOUSE | MERKVLALQARKKRTKAKKDKAQRKPETQHRGSAPHSESDIPEQEEEILGSDDDEQEDPNDYCKGGYHLVKIGDLFNGRYHVIRKLGWGHFSTVWLSWDIQGKKFVAMKVVKSAEHYTETALDEIRLLKSVRNSDPNDPNGEMVVQLLDDFKISGVNGTHICMVFEVLGHHLLKWIIKSNYQGLPLPCVKKIIQQVLQGLDYLHTKCRIIHTDIKPENILLSVNEQYIRRLAAEATEWQRSGAPPPSGSAVSTAPQPKPADKMSKNKKKKLKKKQKRQAELLEKRMQEIEEMEKESGPGQKRPNKQEESESPVDRPLTENPPNKMTQEKLEESNSIGQDQTLTERGGEGGAPEINCNGVIGVVNYPENSNNETLRHKEDLHNANDCDVHTLKQEPSFLNSSNGDSSPSQDTDSCTPTASETMVCQSSAEQSLTRQDITQLEESIRADTPSGDEQEPNGALDSKGKFSAGNFLINPLEPKNAEKLQVKIADLGNACWVHKHFTEDIQTRQYRSLEVLIGSGYNTPADIWSTACMAFELATGDYLFEPHSGEDYTRDEDHIALIIELLGKVPRKLIVAGKYSKEFFTKKGDLKHITKLKPWGLLEVLVEKYEWPQEEAAGFTDFLLPMLELMPEKRATAAECLRHPWLNS |
| 4744 | sp|Q9NRA0|SPHK2\_HUMAN | MNGHLEAEEQQDQRPDQELTGSWGHGPRSTLVRAKAMAPPPPPLAASTPLLHGEFGSYPARGPRFALTLTSQALHIQRLRPKPEARPRGGLVPLAEVSGCCTLRSRSPSDSAAYFCIYTYPRGRRGARRRATRTFRADGAATYEENRAEAQRWATALTCLLRGLPLPGDGEITPDLLPRPPRLLLLVNPFGGRGLAWQWCKNHVLPMISEAGLSFNLIQTERQNHARELVQGLSLSEWDGIVTVSGDGLLHEVLNGLLDRPDWEEAVKMPVGILPCGSGNALAGAVNQHGGFEPALGLDLLLNCSLLLCRGGGHPLDLLSVTLASGSRCFSFLSVAWGFVSDVDIQSERFRALGSARFTLGTVLGLATLHTYRGRLSYLPATVEPASPTPAHSLPRAKSELTLTPDPAPPMAHSPLHRSVSDLPLPLPQPALASPGSPEPLPILSLNGGGPELAGDWGGAGDAPLSPDPLLSSPPGSPKAALHSPVSEGAPVIPPSSGLPLPTPDARVGASTCGPPDHLLPPLGTPLPPDWVTLEGDFVLMLAISPSHLGADLVAAPHARFDDGLVHLCWVRSGISRAALLRLFLAMERGSHFSLGCPQLGYAAARAFRLEPLTPRGVLTVDGEQVEYGPLQAQMHPGIGTLLTGPPGCPGREP |
| 4745 | sp|Q9UUD1|SREBP\_SCHPO | MQSSIPSVSVSVASPAMETPTKASPDSKSPNSVGAIPSSSPLASSTKASTSTPFVENCSNLLCDLASIVEDSPPTLTNTSLSPHSFSLSDMESSMSNWLNPFAFDNTMNSAPPLFTSTNMGSPNSLENSTNPLLSNCGSPNSFQNETFTGPSLNEFDADDKIQRQMKILHSVDTIDPSTVQNYPSADMSNPEVKLKTEEIITPMDTTCKPEPSAKKIKLSPSSEDSCSIPETLPFSAPKSRGSLSPSETPDFVAGPGGKPKKTAHNMIEKRYRTNLNDRICELRDAVPSLRAAAALRCGNSLDDEDLGGLTPARKLNKGTILAKATEYIRHLEAKNKELQKTNKQLSDRLAFYEDPSMAPPSNDTRAVNSVNVVSSSDYSVHQSSRPNLTQRAFTSPTLNTMGRTALNGMVGLGLFNYFGNDSSQSVYGLFALPPFLMSPFTGTVLFNMLKIGVVLLGLFYLLHDNSLFKGFKGEKKSKVSTRSSMSPSSILFRKTVFEKYCLLDHSTSTISLFFGLLIFTLKSAYGYLTHRLSALYTSSENWVYSEQQLAEVRNMEKLLDAQLMGGDAKVDRLRLLMVFASSFSLPPSSHTCALQAMYCQLIFSNTSVPSAIVSKCVAFFWNAAKKQHSKSSVHAELRELPECTANLIENSHADDVFSPNMVERLWVLAKCTRDSAQMSDSIISSLSDVLVLSPLEVLASWYAADLLDALLMESLSRKVEISEIEEIISLCPKNSSIIRHALLAKLVLFPENTADSLNEVLAAYKNTLDLCSQDKRKQSSVLKINLSKLFTLHSCLSLALQRLGYGDVSKRMYQEIFVPDSDADITPLSFIISWTALNTFAPICTSPKENDVVEKMAMYVRTAIGTLKIQDLKLSRKLINSCIDIGSRLQEDLGYVSSA |
| 4746 | sp|Q8RY95|SPL14\_ARATH | MDEVGAQVAAPMFIHQSLGRKRDLYYPMSNRLVQSQPQRRDEWNSKMWDWDSRRFEAKPVDVEVQEFDLTLRNRSGEERGLDLNLGSGLTAVEETTTTTQNVRPNKKVRSGSPGGNYPMCQVDNCTEDLSHAKDYHRRHKVCEVHSKATKALVGKQMQRFCQQCSRFHLLSEFDEGKRSCRRRLAGHNRRRRKTTQPEEVASGVVVPGNHDTTNNTANANMDLMALLTALACAQGKNAVKPPVGSPAVPDREQLLQILNKINALPLPMDLVSKLNNIGSLARKNMDHPTVNPQNDMNGASPSTMDLLAVLSTTLGSSSPDALAILSQGGFGNKDSEKTKLSSYENGVTTNLEKRTFGFSSVGGERSSSSNQSPSQDSDSRGQDTRSSLSLQLFTSSPEDESRPTVASSRKYYSSASSNPVEDRSPSSSPVMQELFPLQASPETMRSKNHKNSSPRTGCLPLELFGASNRGAADPNFKGFGQQSGYASSGSDYSPPSLNSDAQDRTGKIVFKLLDKDPSQLPGTLRSEIYNWLSNIPSEMESYIRPGCVVLSVYVAMSPAAWEQLEQKLLQRLGVLLQNSPSDFWRNARFIVNTGRQLASHKNGKVRCSKSWRTWNSPELISVSPVAVVAGEETSLVVRGRSLTNDGISIRCTHMGSYMAMEVTRAVCRQTIFDELNVNSFKVQNVHPGFLGRCFIEVENGFRGDSFPLIIANASICKELNRLGEEFHPKSQDMTEEQAQSSNRGPTSREEVLCFLNELGWLFQKNQTSELREQSDFSLARFKFLLVCSVERDYCALIRTLLDMLVERNLVNDELNREALDMLAEIQLLNRAVKRKSTKMVELLIHYLVNPLTLSSSRKFVFLPNITGPGGITPLHLAACTSGSDDMIDLLTNDPQEIGLSSWNTLRDATGQTPYSYAAIRNNHNYNSLVARKLADKRNKQVSLNIEHEVVDQTGLSKRLSLEMNKSSSSCASCATVALKYQRRVSGSQRLFPTPIIHSMLAVATVCVCVCVFMHAFPIVRQGSHFSWGGLDYGSI |
| 4747 | sp|Q9FHW7|SKP1B\_ARATH | MSTVRKITLKSSDGENFEIDEAVALESQTIKHMIEDDCTDNGIPLPNVTSKILSKVIEYCKRHVEAAEKSETTADAAAATTTTTVASGSSDEDLKTWDSEFIKVDQGTLFDLILAANYLNIKGLLDLTCQTVADMIKGKTPEEIRKTFNIKNDFTPEEEEEVRRENQWAFE |
| 4748 | sp|P31645|SC6A4\_HUMAN | METTPLNSQKQLSACEDGEDCQENGVLQKVVPTPGDKVESGQISNGYSAVPSPGAGDDTRHSIPATTTTLVAELHQGERETWGKKVDFLLSVIGYAVDLGNVWRFPYICYQNGGGAFLLPYTIMAIFGGIPLFYMELALGQYHRNGCISIWRKICPIFKGIGYAICIIAFYIASYYNTIMAWALYYLISSFTDQLPWTSCKNSWNTGNCTNYFSEDNITWTLHSTSPAEEFYTRHVLQIHRSKGLQDLGGISWQLALCIMLIFTVIYFSIWKGVKTSGKVVWVTATFPYIILSVLLVRGATLPGAWRGVLFYLKPNWQKLLETGVWIDAAAQIFFSLGPGFGVLLAFASYNKFNNNCYQDALVTSVVNCMTSFVSGFVIFTVLGYMAEMRNEDVSEVAKDAGPSLLFITYAEAIANMPASTFFAIIFFLMLITLGLDSTFAGLEGVITAVLDEFPHVWAKRRERFVLAVVITCFFGSLVTLTFGGAYVVKLLEEYATGPAVLTVALIEAVAVSWFYGITQFCRDVKEMLGFSPGWFWRICWVAISPLFLLFIICSFLMSPPQLRLFQYNYPYWSIILGYCIGTSSFICIPTYIAYRLIITPGTFKERIIKSITPETPTEIPCGDIRLNAV |
| 4749 | sp|P53814|SMTN\_HUMAN | MADEALAGLDEGALRKLLEVTADLAERRRIRSAIRELQRQELEREEEALASKRFRAERQDNKENWLHSQQREAEQRAALARLAGQLESMNDVEELTALLRSAGEYEERKLIRAAIRRVRAQEIEAATLAGRLYSGRPNSGSREDSKGLAAHRLEQCEVPEREEQEQQAEVSKPTPTPEGTSQDVTTVTLLLRAPPGSTSSSPASPSSSPTPASPEPPLEPAEAQCLTAEVPGSPEPPPSPPKTTSPEPQESPTLPSTEGQVVNKLLSGPKETPAAQSPTRGPSDTKRADVAGPRPCQRSLSVLSPRQPAQNRESTPLASGPSSFQRAGSVRDRVHKFTSDSPMAARLQDGTPQAALSPLTPARLLGPSLTSTTPASSSSGSSSRGPSDTSSRFSKEQRGVAQPLAQLRSCPQEEGPRGRGLAARPLENRAGGPVARSEEPGAPLPVAVGTAEPGGSMKTTFTIEIKDGRGQASTGRVLLPTGNQRAELTLGLRAPPTLLSTSSGGKSTITRVNSPGTLARLGSVTHVTSFSHAPPSSRGGCSIKMEAEPAEPLAAAVEAANGAEQTRVNKAPEGRSPLSAEELMTIEDEGVLDKMLDQSTDFEERKLIRAALRELRQRKRDQRDKERERRLQEARGRPGEGRGNTATETTTRHSQRAADGSAVSTVTKTERLVHSNDGTRTARTTTVESSFVRRSENGSGSTMMQTKTFSSSSSSKKMGSIFDREDQASPRAGSLAALEKRQAEKKKELMKAQSLPKTSASQARKAMIEKLEKEGAAGSPGGPRAAVQRSTSFGVPNANSIKQMLLDWCRAKTRGYEHVDIQNFSSSWSDGMAFCALVHNFFPEAFDYGQLSPQNRRQNFEVAFSSAEMLVDCVPLVEVDDMMIMGKKPDPKCVFTYVQSLYNHLRRHELRLRGKNV |
| 4750 | sp|Q9VIH7|SKY\_DROME | MPYHRGGDASSQADKLSGIVEESDLYEGFAPHVETSEIKTLDFYNLPKQTGKEPALRSYTEIQQLLQQGKKRDVKNILRENSWPINSPIRAQLWPMLCGQHQTKQQMLDGFYWEMVHQVFGTTELSEKPIMLPAFVDATHCLPYHLTSTGRAVADRIVNVLGYDCPDITYSPVLYPITSILLHFMSEEEAYICLAGLVGSKEKVFINQTKLQHEVTWKTVMQIAKKHTKSATSYFQRICPGLKLERIFMDWCWWILAGLPFQHLVRIMDCYFHEGIKVLYRVALVILNLFHKECQSNNEWSPDNIKNDIGNALIKFCKKIPVSPAKLLHAAFSIRGLSTQYISRIFIKTEMLLKSRSVLTSGSKQLIKSRSSDNLPTSQSQVNIQMMSHTLTIREHFGLPGTKNFIKTWTDRQFLFTLWSWLPVRITMYQPVLLYTTEEHGCSLTTFYVRVEQHEPTLLMIKTCNNEVFGAYCSSRWFERNVKDDKGQRQAYFGTGETFLFSLYPERAKYPWVGIEGDKDLGHSSELFMAADSKMITIGGGEGQAIWMDENIRFGKTDSCKTFNNPPLCPSGDFEIRVLEVYGFVGI |
| 4751 | sp|Q3UHA3|SPTCS\_MOUSE | MAAQPGPGSAASPGCAGAMERVLPMLLVRIPAEETAQLGPRAQLHRELEALGSLTAAGSLQVLSLAPGSRGGSSCCLPGPFRQFLWEESQNSTSRDRPKLLVAREDYELLVYEFDLRDGRCDAALLHGCCGRTLQKLTEDQGVSISFKSLRILSFHNNTSLLLINRCLILRVVFPGKEPGVPVLDCLSLPLPAQAADMIIDAQLCERFLFVLSTVGLIYIFNTMDGTQVAQVDLALLREDSEQLEPASVSSFTSLRVSQDLDVLVLVSSASTAVALNLHLYFRQHPGHLLCEGTLEDLPIEGPPGIDEDDLVNSAHNMKLSKVSFQVDRSWRAQLLSLNESVRGSEPEVSCCAPWFQSALRLESLESADHTPTVPTHVFIPGDVPRGRCAFPQKEHVKSSDPGRPWKTMHLSEHEQPTELTCLSVTGFTALFTWAVGATSCTIGLWDLETQSMQCFSLSQKCTPVDIGGDQQLCLALTDDGLSLILFGLTQEEFLNRLMIHGSASTVDSLCHLNGWGRCSIPIHALEAGIENRQLDTVDFFLKSKENLLTPSSQSPAPDQQHPFSSHLYLRQVEEMSPALDLLCSAIRESDSETQSKHFAEQLLHLTLSFLNKQIRELCVHTEELDEHFQKGVAILTSYINELRTFMIKFPWKPGDAIDESDVNEGVVTVKEDRVWEELSFEEVIADAILNNRIPEAQTFFRISGHSAQRLEELVRIGLDLAFDSLKKNNVEEASRLLRNMGFSVEDELLKICFYTTDKNIRDFLVEILKEKECFSEKERRTVDFVHQLEALYSGHFQENAQTQAFPRYWIKEQDCFKHKSVLDTFLKYDKKDEFHKQDHRIALNWAHRWDLQTQECILLRRLSPEEYKARSPEALWRHLTARHDCSSISLWMEEFQTQETESPQQSKWPPLSADIIEQGTCCHSHMRNEILDKLARSGIFLASELEDFERLLLRLSRIGGVMQDSLPVQSYKSRAGCDFHSRFILYCLEHGLQHLLYTYLDYYKLSPGNCPFLEKKELHEAHPWLEFLVQCRQVSSNLTDPKLIFQASLANAQILIPTNQASVSSMLLEGHTLLALATTMYAPGGVSQVIQNEDSENCLKKVDPQLLKVALTPYPKLKAALFPQYTAPSILPSDITLYHLIQSLPPFDPSRLFVWQSANTLAIGDTGSQLPHFSSPDLVSKYAVLERLNYAYYLHHGRPSFAFGTFLVQELIKSKTPKQLIQQVGKEAYTLGLSSFTNPSVGAACVCFLELLGLSSLKLRVDLKMANVILGSKRRDEDARSSFIRESLAEKLSKLADGDRAATEELLVLLEEGVWDSIEQQGFSRLSSESSSQWALVLQFCMLHDRKLSVSYLRECAKANDWLQFLVHSQLHNYHPAEVESLLQYFSPVLQSHLKLASEKLSSGSISRDDSCLQELQKNKGETSNFFEILHRCSDESTSWSWLLAEAVRHRAPILSVLASCVQGASVVSCLCVWIVTSVEDKVAAEAMGHIQISVEDHHWSLKDLSIIWRTVLTRRKSHTLIRGFQLFIKDSPLLLIMEMYELCMFFKNYEKAKVKLLEFQKSLETLDTVAARVLPIIPASWMKDQVCFLLKLMPQQCETQYELGKLLQLFVGTEQLFSDGPDVQKLCLLSQVLKDTPIAISPAVISSYSTENFQRECRSILEKLKADGQFAVARRVAELAALPVDSLLIEQLTQEMQTLTHTPQWSLKQERLGFWKKCHEIFKKNSISKRAASSFFSSQAPEVSEHPAEQGSLEERHLLLTLAGHWLAQEEPVPVEELEGLEKQIWICRVAQHTCGGAEEEAKPSLSQHKLAAAELSFDSLASELSFSKLAALNTSKYLGLNDLPSKTTCENRLKHKEQESLNTLIGQLLDGGCVHEASRVCQYFRFYSQDLVLVLHCRALASAEATMEDLHSEIRALLSSAAQPEDLESPSVPLRKAHSSSSLDSQSFVMVPPTDEVAQNLHTLISKCLHGKNYCRQVLCLYELAKDLGCSYGDVAARDSEAMLRAILASQRPDRCRQAQVFINTQGLEADTVAELVAEEVTRELLTPSEGTGEKQPFNPAEESQTFLQLTALCQDRTLVGMKLLDKIPSVPHGELSCTTELLILAHHCFTFTCHMEGITRVLQAARMLTDNHLAPNEEYGLVVRLLTGIGRYNEMTYIFDLLHQKHYFEVLMRKKLDPTGTLKTALLDYIKRCRPGDSEKHNMIALCFSMCREIGENHEAAACIQLKLIESQPWEESLKDGAQLKQLLLKALTLMLDAAESYAKDSCVRQALHCNRLTKLITLQIHFLNSGQNTMLINLGHQKLMDCIMTLPRFYQASIVAEAYDFVPDWAEVLYQQVILKGDFSYLEEFKQQKLLRPNIFEDISKKYKQHQPTDRVTENLKKLLSYCEDIYLYYKLAYEHKFFEIVNMLLKDPQTGCCLKDMLAG |
| 4752 | sp|Q14140|SRTD2\_HUMAN | MLGKGGKRKFDEHEDGLEGKIVSPCDGPSKVSYTLQRQTIFNISLMKLYNHRPLTEPSLQKTVLINNMLRRIQEELKQEGSLRPMFTPSSQPTTEPSDSYREAPPAFSHLASPSSHPCDLGSTTPLEACLTPASLLEDDDDTFCTSQAMQPTAPTKLSPPALLPEKDSFSSALDEIEELCPTSTSTEAATAATDSVKGTSSEAGTQKLDGPQESRADDSKLMDSLPGNFEITTSTGFLTDLTLDDILFADIDTSMYDFDPCTSSSGTASKMAPVSADDLLKTLAPYSSQPVTPSQPFKMDLTELDHIMEVLVGS |
| 4753 | sp|Q9SEE9|SR45\_ARATH | MAKPSRGRRSPSVSGSSSRSSSRSRSGSSPSRSISRSRSRSRSLSSSSSPSRSVSSGSRSPPRRGKSPAGPARRGRSPPPPPSKGASSPSKKAVQESLVLHVDSLSRNVNEAHLKEIFGNFGEVIHVEIAMDRAVNLPRGHGYVEFKARADAEKAQLYMDGAQIDGKVVKATFTLPPRQKVSSPPKPVSAAPKRDAPKSDNAAADAEKDGGPRRPRETSPQRKTGLSPRRRSPLPRRGLSPRRRSPDSPHRRRPGSPIRRRGDTPPRRRPASPSRGRSPSSPPPRRYRSPPRGSPRRIRGSPVRRRSPLPLRRRSPPPRRLRSPPRRSPIRRRSRSPIRRPGRSRSSSISPRKGRGPAGRRGRSSSYSSSPSPRRIPRKISRSRSPKRPLRGKRSSSNSSSSSSPPPPPPPRKT |
| 4754 | sp|P60879|SNP25\_MOUSE | MAEDADMRNELEEMQRRADQLADESLESTRRMLQLVEESKDAGIRTLVMLDEQGEQLERIEEGMDQINKDMKEAEKNLTDLGKFCGLCVCPCNKLKSSDAYKKAWGNNQDGVVASQPARVVDEREQMAISGGFIRRVTNDARENEMDENLEQVSGIIGNLRHMALDMGNEIDTQNRQIDRIMEKADSNKTRIDEANQRATKMLGSG |
| 4755 | sp|Q09915|SPT6\_SCHPO | MSENEVVGSPTTNGDKNEDGYPAENGEGTNVDDNNNEEEKDGIPLDNDNDENDSSEESATDEEAERQVREGFIVEDEEDEVPQEIRRKKKRKKHAESTADQDMLDEEDLELVMENTGQGSRFSKLRRLKRGRDQEETLENIFSEEEEEEENEVDDEAPNRTQGHRAGVIDEFADFIEQDEFEDEERQEEKYETGPPIESVRPEALGISDDDYIQIYEVFGDGTDYAFALEDEDAEDELEESVSLKTIFEPSELKDKMLTEEDEIIRITDEPERMQLYMKRNIDCSEDEFREQVAWIIDYLLKNRRDIDAELYEPFQTAVRYVVHFFIRDSLEVPFIWQHRRDYIVHNNRERNTITPLLSQNDLWNIFFLCTKFWSLHSKKQDILKLYSDLGINDDLVVPFCEAASSLDAIDDLNDYIHFTYSEQIRDRALLMGTGLRRPQGSKYSFFEKFRKSSLYNLVKEFGMSAKDFSFNVAQGARLRFVEDNTLSPEELSRTYVTNELSSPEQVLQKARRVLAEEIIHDPQFRKSFRDKLYNAGVVTVLATQKGVRKIGSEHPYYEFKYLKRKPLGSFELEPILFLKMLKAEEEGLIQLSIEFEDPDDVFKGLLELFVSDNFSENAMQWNAQRELVLKEVFKRFSALAPDAIRETLRSRYLDELGMRCRNQLFSRLDQAPYEPSTKNFDRGTIPSVLAVSNGKGESSDAIICVFVDDVGEPTDSLKLADLRDLANQAMFAEFVEKVKPDVIGVSGMSVSAHKIRQHVQDSLTSHEPVDLIMVNDEVARLYQNSTRAVDEFPTLPTISCYCVALARYVQNPLFEYAAMGRDLMSLSFDPWQHLLPPDVLWKYLETALVDISSLVGIDINEAVTNKYEANILPYIAGLGPRKADYVLKKIAATGGRIDNRSDLISKQIMSRKVFINCSSFFIIPNDEYPNMDILDSTRIHNEDYELARKMASDALELDEEDIEELETNRGVVYHLLEENETGKLDELVLEEYADQLEREFHQKKRNTLEKIRLELKDPYGEQRNVFHKLTPSEIFLMLTGENPEELQADAIVPVNVRRVTNRFVAVKLDCGIDGNIKADEVSDDFIPPPQLLQVGQTVEGVIISLDEANFMVDLSLRNSVLQSANSKRQTSSHRTSYWDTEAEKRDTERMQAETQAEQRVARVIKHPLFKDLNASQAEAYLSKMQVGDLVIRPSSKGSDHIVVTWKVAEGSYQHIDVLELEKENEFTIGQKLLVKGRFEKMTYQYSDLDELIVLHIKAIAKKIDEMCIHDKFRKGTQAETEKWLESYSEANPKRSCYAFCFDHQHPGYFILCFKASVNSPVTAWPVKVIPNAFFLQGNVYGDMTALCNGFKLLYAARTKNFRRM |
| 4756 | sp|Q6PDM2|SRSF1\_MOUSE | MSGGGVIRGPAGNNDCRIYVGNLPPDIRTKDIEDVFYKYGAIRDIDLKNRRGGPPFAFVEFEDPRDAEDAVYGRDGYDYDGYRLRVEFPRSGRGTGRGGGGGGGGGAPRGRYGPPSRRSENRVVVSGLPPSGSWQDLKDHMREAGDVCYADVYRDGTGVVEFVRKEDMTYAVRKLDNTKFRSHEGETAYIRVKVDGPRSPSYGRSRSRSRSRSRSRSRSNSRSRSYSPRRSRGSPRYSPRHSRSRSRT |
| 4757 | sp|Q9HD15|SRA1\_HUMAN | MTRCPAGQAEVEMAELYVKPGNKERGWNDPPQFSYGLQTQAGGPRRSLLTKRVAAPQDGSPRVPASETSPGPPPMGPPPPSSKAPRSPPVGSGPASGVEPTSFPVESEAVMEDVLRPLEQALEDCRGHTRKQVCDDISRRLALLQEQWAGGKLSIPVKKRMALLVQELSSHRWDAADDIHRSLMVDHVTEVSQWMVGVKRLIAEKRSLFSEEAANEEKSAATAEKNHTIPGFQQAS |
| 4758 | sp|Q8R5A0|SMYD2\_MOUSE | MRAEARGGLERFCSAGKGRGLRALRPFHVGDLLFSCPAYACVLTVGERGHHCECCFARKEGLSKCGRCKQAFYCDVECQKEDWPLHKLECSSMVVLGENWNPSETVRLTARILAKQKIHPERTPSEKLLAVREFESHLDKLDNEKKDLIQSDIAALHQFYSKYLEFPDHSSLVVLFAQVNCNGFTIEDEELSHLGSAIFPDVALMNHSCCPNVIVTYKGTLAEVRAVQEIHPGDEVFTSYIDLLYPTEDRNDRLRDSYFFTCECRECTTKDKDKAKVEVRKLSSPPQAEAIRDMVRYARNVIEEFRRAKHYKSPSELLEICELSQEKMSSVFEDSNVYMLHMMYQAMGVCLYMQDWEGALKYGQKIIKPYSKHYPVYSLNVASMWLKLGRLYMGLENKAAGEKALKKAIAIMEVAHGKDHPYISEIKQEIESH |
| 4759 | sp|O60499|STX10\_HUMAN | MSLEDPFFVVRGEVQKAVNTARGLYQRWCELLQESAAVGREELDWTTNELRNGLRSIEWDLEDLEETIGIVEANPGKFKLPAGDLQERKVFVERMREAVQEMKDHMVSPTAVAFLERNNREILAGKPAAQKSPSDLLDASAVSATSRYIEEQQATQQLIMDEQDQQLEMVSGSIQVLKHMSGRVGEELDEQGIMLDAFAQEMDHTQSRMDGVLRKLAKVSHMTSDRRQWCAIAVLVGVLLLVLILLFSL |
| 4760 | sp|Q6DV79|STAT3\_CHICK | MAQWNQLQQLDTRYLEQLHQLYSDSFPMELRQFLAPWIESQDWAYAANKESHATLVFHNLLGEIDQQYSRFLQESNVLYQHNLRRIKQFLQSRYLEKPMEIARIVARCLWEESRLLQTAATAAQQGGQATHPTAAVVTEKQQMLEQHLQDVRKRVQDLEQKMKVVENLQDDFDFNYKTLKSQGDMQDLNGNNQSVTRQKMQQLEQMLTALDQMRRGIVSELAGLLSAMEYVQKMLADEELADWKRRQQIACIGGPPNICLDRLENWITSLAESQLQTRQQIKKLEELQQKVSYKGDPIVQHRPMLEERIVELFRNLMKSAFVVERQPCMPMHPDRPLVIKTGVQFTTKVRLLVKFPELNYQLKIKVCIDKDSGDVAALRGSRKFNILGTNTKVMNMEESNNGSLSAEFKHLTLREQRCGNGGRANCDASLIVTEELHLITFETEVYHQGLKIDLETHSLPVVVISNICQMPNAWASILWYNMLTNNPKNVNFFTKPPIGTWDQVAEVLSWQFSSTTKRGLSIEQLTTLAEKLLGPGVNYSGCQITWAKFCKENMAGKGFSFWVWLDNIIDLVKKYILALWNEGYIMGFISKERERAILSTKPPGTFLLRFSESSKEGGITFTWVEKDISGKTQIQSVEPYTKQQLNSMSFAEIIMGYKIMDATNILVSPLVYLYPDIPKEEAFGKYCRSESQEHSEATDSGSAAPYLKTKFICVTPTSFSNTIDLPMSPRTLDSLMQFGNSSEGAEANAGGQFESLTFDMELTQECASSPM |
| 4761 | sp|Q9SAK4|SSDH\_ARATH | MVIGAAARVAIGGCRKLISSHTSLLLVSSQCRQMSMDAQSVSEKLRSSGLLRTQGLIGGKWLDSYDNKTIKVNNPATGEIIADVACMGTKETNDAIASSYEAFTSWSRLTAGERSKVLRRWYDLLIAHKEELGQLITLEQGKPLKEAIGEVAYGASFIEYYAEEAKRVYGDIIPPNLSDRRLLVLKQPVGVVGAITPWNFPLAMITRKVGPALASGCTVVVKPSELTPLTALAAAELALQAGVPPGALNVVMGNAPEIGDALLTSPQVRKITFTGSTAVGKKLMAAAAPTVKKVSLELGGNAPSIVFDDADLDVAVKGTLAAKFRNSGQTCVCANRVLVQDGIYDKFAEAFSEAVQKLEVGDGFRDGTTQGPLINDAAVQKVETFVQDAVSKGAKIIIGGKRHSLGMTFYEPTVIRDVSDNMIMSKEEIFGPVAPLIRFKTEEDAIRIANDTIAGLAAYIFTNSVQRSWRVFEALEYGLVGVNEGLISTEVAPFGGVKQSGLGREGSKYGMDEYLEIKYVCLGDMNRH |
| 4762 | sp|O75716|STK16\_HUMAN | MGHALCVCSRGTVIIDNKRYLFIQKLGEGGFSYVDLVEGLHDGHFYALKRILCHEQQDREEAQREADMHRLFNHPNILRLVAYCLRERGAKHEAWLLLPFFKRGTLWNEIERLKDKGNFLTEDQILWLLLGICRGLEAIHAKGYAHRDLKPTNILLGDEGQPVLMDLGSMNQACIHVEGSRQALTLQDWAAQRCTISYRAPELFSVQSHCVIDERTDVWSLGCVLYAMMFGEGPYDMVFQKGDSVALAVQNQLSIPQSPRHSSALRQLLNSMMTVDPHQRPHIPLLLSQLEALQPPAPGQHTTQI |
| 4763 | sp|Q9WU70|STXB5\_RAT | MRKFNIRKVLDGLTAGSSSASQQQQQQQHPPGNREPEIQETLQSEHFQLCKTVRHGFPYQPSALAFDPVQKILAVGTQTGALRLFGRPGVECYCQHDSGAAVIQLQFLINEGALVSALADDTLHLWNLRQKRPAVLHSLKFCRERVTFCHLPFQSKWLYVGTERGNIHIVNVESFTLSGYVIMWNKAIELSSKSHPGPVVHISDNPMDEGKLLIGFESGTVVLWDLKSKKADYRYTYDEAIHSVAWHHEGKQFICSHSDGTLTIWNVRSPTKPVQTITPHGKQLKDGKKPEPCKPILKVEFKTTRSGEPFIILSGGLSYDTVGRRPCLTVMHGKSTAVLEMDYSIVDFLTLCETPYPNDFQEPYAVVVLLEKDLVLIDLAQNGYPIFENPYPLSIHESPVTCCEYFADCPVDLIPALYSVGARQKRQGYSKKEWPINGGNWGLGAQSYPEIIITGHADGSIKFWDASAITLQVLYKLKTSKVFEKSRNKDDRQNTDIVDEDPYAIQIISWCPESRMLCIAGVSAHVIIYRFSKQEVVTEVIPMLEVRLLYEINDVETPEGEQPPPLSTPVGSSTSQPIPPQSHPSTSSSSSDGLRDNVPCLKVKNSPLKQSPGYQTELVIQLVWVGGEPPQQITSLALNSSYGLVVFGNSNGIAMVDYLQKAVLLNLSTIELYGSNDPYRREPRSPRKSRQPSGAGLCDITEGTVVPEDRCKSPTSGSSSPHNSDDEQKVNNFIEKVKTQSRKFSKMVASDLAKMSRKLSLPTDLKPDLDVKDNSFSRSRSSSVTSIDKESREAISALHFCETFTRKADSSPSPCLWVGTTVGTAFVITLNLPLGPEQRLLQPVIVSPSGTILRLKGAILRMAFLDAAGCLMPPAYEPWTEHNVPEEKDEKEKLKKRRPVSVSPSSSQEISENQYAVICSEKQAKVISLPTQNCAYKQNITETSFVLRGDIVALSNSVCLACFCANGHIMTFSLPSLRPLLDVYYLPLTNMRIARTFCFANSGQALYLVSPTEIQRLTYSQETCENLQEMLGELFTPVETPEAPNRGFFKGLFGGGAQSLDREELFGESSSGKASRSLAQHIPGPGGIEGVKGAASGVVGELARARLALDERGQKLSDLEERTAAMMSSADSFSKHAHEMMLKYKDKKWYQF |
| 4764 | sp|C8KI33|SUV2\_ARATH | MSGNDEEFNDEFLLAIDSIETTLKKADMYRPLPPPYLPTFLPAPPPSTKISSSLSHPMQLQSSAGQQRKQIQVPDPFLSYSPPRELSQRVVSGFNDALMDYSNSTVVTAAKPISPTTSNRRCDSEKDLEIDRLKKELERVSKQLLDVEQECSQLKKGKSKETESRNLCADDNRGQCSTVHASKRIDLEPDVATSSVNHRENDSRMALDDKRSFKTTGVQADVANHSDLSKKLLDIWRTSNYQDPRKNLISELLLACSTDLQILFSFMKISTPPQELNKQEAKTSSDRQSSKALESEKVYQLYSAVTKISYGFVNLKTLVEPLLDLCKAETAVLVHRSLRVLHVLLEHICGDEKRFEASWDANWHSLFKLMNQIASKRTEQDVKQEALSIMNIIVMSTDAYTARESFVSKEVFESISLLLRKEGGLHVRKEAIHLFYLLLNCPKLYDTFDSLHEEKNSSDTENDSEGNFFALEAFGKIFEGLADCLTSPRKTSEDLELCRNVIMILALAASSGNSGYELLSSHKLPQDSSFLMLILHLLVAEIDSESTEFHPKAEIFKARTLLMREILILLNRLVSGLSSSATILKELTTSRDMASLTVDAATRLSRKRNLLGKPESSVERMRNTEIMDLARIFKKRVFAFLGDNTI |
| 4765 | sp|P25126|SUCC\_THETH | MNLHEYQAKEILARYGVPVPPGKVAYTPEEAKRIAEEFGKRVVIKAQVHVGGRGKAGGVKLADTPQEAYEKAQAILGMNIKGLTVKKVLVAEAVDIAKEYYAGLILDRAKKRVVLMLSKEGGVDIEEVAAERPEAIHKFWIDPHKGFRPFEAREMVKRAGLEGNLNKLAQVLVALYRAYEGVDASIAEINPLVVTTDGGIVAADAKIVLDDNALFRHPDLAELREVEAEHPLEVEASNYGFAYVKLDGNIGIIGNGAGLVMYTLDLVNRVGGKPANFLDIGGGAKADVVYNALKVVLKDPDVKGVFINIFGGITRADEVAKGVIRALEEGLLTKPVVMRVAGTAEEEAKKLLEGKPVYMYPTSIEAAKAIVAMVGGAA |
| 4766 | sp|Q9Y6J8|STYL1\_HUMAN | MPGLLLCEPTELYNILNQATKLSRLTDPNYLCLLDVRSKWEYDESHVITALRVKKKNNEYLLPESVDLECVKYCVVYDNNSSTLEILLKDDDDDSDSDGDGKDLVPQAAIEYGRILTRLTHHPVYILKGGYERFSGTYHFLRTQKIIWMPQELDAFQPYPIEIVPGKVFVGNFSQACDPKIQKDLKIKAHVNVSMDTGPFFAGDADKLLHIRIEDSPEAQILPFLRHMCHFIEIHHHLGSVILIFSTQGISRSCAAIIAYLMHSNEQTLQRSWAYVKKCKNNMCPNRGLVSQLLEWEKTILGDSITNIMDPLY |
| 4767 | sp|O70166|STMN3\_MOUSE | MASTVSAYKEKMKELSVLSLICSCFYSQPHPNTIYQYGDMEVKQLDKRASGQSFEVILKSPSDLSPESPVLSSPPKRKDASLEELQKRLEAAEERRKTQEAQVLKQLAERREHEREVLHKALEENNNFSRLAEEKLNYKMELSKEIREAHLAALRERLREKELHAAEVRRNKEQREEMSG |
| 4768 | sp|Q9H668|STN1\_HUMAN | MQPGSSRCEEETPSLLWGLDPVFLAFAKLYIRDILDMKESRQVPGVFLYNGHPIKQVDVLGTVIGVRERDAFYSYGVDDSTGVINCICWKKLNTESVSAAPSAARELSLTSQLKKLQETIEQKTKIEIGDTIRVRGSIRTYREEREIHATTYYKVDDPVWNIQIARMLELPTIYRKVYDQPFHSSALEKEEALSNPGALDLPSLTSLLSEKAKEFLMENRVQSFYQQELEMVESLLSLANQPVIHSASSDQVNFKKDTTSKAIHSIFKNAIQLLQEKGLVFQKDDGFDNLYYVTREDKDLHRKIHRIIQQDCQKPNHMEKGCHFLHILACARLSIRPGLSEAVLQQVLELLEDQSDIVSTMEHYYTAF |
| 4769 | sp|P30937|SSR4\_RAT | MNTPATLPLGGEDTTWTPGINASWAPDEEEDAVRSDGTGTAGMVTIQCIYALVCLVGLVGNALVIFVILRYAKMKTATNIYLLNLAVADELFMLSVPFVASAAALRHWPFGAVLCRAVLSVDGLNMFTSVFCLTVLSVDRYVAVVHPLRAATYRRPSVAKLINLGVWLASLLVTLPIAVFADTRPARGGEAVACNLHWPHPAWSAVFVIYTFLLGFLLPVLAIGLCYLLIVGKMRAVALRAGWQQRRRSEKKITRLVLMVVTVFVLCWMPFYVVQLLNLFVTSLDATVNHVSLILSYANSCANPILYGFLSDNFRRSFQRVLCLRCCLLETTGGAEEEPLDYYATALKSRGGPGCICPPLPCQQEPMQAEPACKRVPFTKTTTF |
| 4770 | sp|O15061|SYNEM\_HUMAN | MLSWRLQTGPEKAELQELNARLYDYVCRVRELERENLLLEEELRGRRGREGLWAEGQARCAEEARSLRQQLDELSWATALAEGERDALRRELRELQRLDAEERAARGRLDAELGAQQRELQEALGARAALEALLGRLQAERRGLDAAHERDVRELRARAASLTMHFRARATGPAAPPPRLREVHDSYALLVAESWRETVQLYEDEVRELEEALRRGQESRLQAEEETRLCAQEAEALRREALGLEQLRARLEDALLRMREEYGIQAEERQRAIDCLEDEKATLTLAMADWLRDYQDLLQVKTGLSLEVATYRALLEGESNPEIVIWAEHVENMPSEFRNKSYHYTDSLLQRENERNLFSRQKAPLASFNHSSALYSNLSGHRGSQTGTSIGGDARRGFLGSGYSSSATTQQENSYGKAVSSQTNVRTFSPTYGLLRNTEAQVKTFPDRPKAGDTREVPVYIGEDSTIARESYRDRRDKVAAGASESTRSNERTVILGKKTEVKATREQERNRPETIRTKPEEKMFDSKEKASEERNLRWEELTKLDKEARQRESQQMKEKAKEKDSPKEKSVREREVPISLEVSQDRRAEVSPKGLQTPVKDAGGGTGREAEARELRFRLGTSDATGSLQGDSMTETVAENIVTSILKQFTQSPETEASADSFPDTKVTYVDRKELPGERKTKTEIVVESKLTEDVDVSDEAGLDYLLSKDIKEVGLKGKSAEQMIGDIINLGLKGREGRAKVVNVEIVEEPVSYVSGEKPEEFSVPFKVEEVEDVSPGPWGLVKEEEGYGESDVTFSVNQHRRTKQPQENTTHVEEVTEAGDSEGEQSYFVSTPDEHPGGHDRDDGSVYGQIHIEEESTIRYSWQDEIVQGTRRRTQKDGAVGEKVVKPLDVPAPSLEGDLGSTHWKEQARSGEFHAEPTVIEKEIKIPHEFHTSMKGISSKEPRQQLVEVIGQLEETLPERMREELSALTREGQGGPGSVSVDVKKVQGAGGSSVTLVAEVNVSQTVDADRLDLEELSKDEASEMEKAVESVVRESLSRQRSPAPGSPDEEGGAEAPAAGIRFRRWATRELYIPSGESEVAGGASHSSGQRTPQGPVSATVEVSSPTGFAQSQVLEDVSQAARHIKLGPSEVWRTERMSYEGPTAEVVEVSAGGDLSQAASPTGASRSVRHVTLGPGQSPLSREVIFLGPAPACPEAWGSPEPGPAESSADMDGSGRHSTFGCRQFHAEKEIIFQGPISAAGKVGDYFATEESVGTQTSVRQLQLGPKEGFSGQIQFTAPLSDKVELGVIGDSVHMEGLPGSSTSIRHISIGPQRHQTTQQIVYHGLVPQLGESGDSESTVHGEGSADVHQATHSHTSGRQTVMTEKSTFQSVVSESPQEDSAGDTSGAEMTSGVSRSFRHIRLGPTETETSEHIAIRGPVSRTFVLAGSADSPELGKLADSSRTLRHIAPGPKETSFTFQMDVSNVEAIRSRTQEAGALGVSDRGSWRDADSRNDQAVGVSFKASAGEGDQAHREQGKEQAMFDKKVQLQRMVDQRSVISDEKKVALLYLDNEEEENDGHWF |
| 4771 | sp|P14410|SUIS\_HUMAN | MARKKFSGLEISLIVLFVIVTIIAIALIVVLATKTPAVDEISDSTSTPATTRVTTNPSDSGKCPNVLNDPVNVRINCIPEQFPTEGICAQRGCCWRPWNDSLIPWCFFVDNHGYNVQDMTTTSIGVEAKLNRIPSPTLFGNDINSVLFTTQNQTPNRFRFKITDPNNRRYEVPHQYVKEFTGPTVSDTLYDVKVAQNPFSIQVIRKSNGKTLFDTSIGPLVYSDQYLQISTRLPSDYIYGIGEQVHKRFRHDLSWKTWPIFTRDQLPGDNNNNLYGHQTFFMCIEDTSGKSFGVFLMNSNAMEIFIQPTPIVTYRVTGGILDFYILLGDTPEQVVQQYQQLVGLPAMPAYWNLGFQLSRWNYKSLDVVKEVVRRNREAGIPFDTQVTDIDYMEDKKDFTYDQVAFNGLPQFVQDLHDHGQKYVIILDPAISIGRRANGTTYATYERGNTQHVWINESDGSTPIIGEVWPGLTVYPDFTNPNCIDWWANECSIFHQEVQYDGLWIDMNEVSSFIQGSTKGCNVNKLNYPPFTPDILDKLMYSKTICMDAVQNWGKQYDVHSLYGYSMAIATEQAVQKVFPNKRSFILTRSTFAGSGRHAAHWLGDNTASWEQMEWSITGMLEFSLFGIPLVGADICGFVAETTEELCRRWMQLGAFYPFSRNHNSDGYEHQDPAFFGQNSLLVKSSRQYLTIRYTLLPFLYTLFYKAHVFGETVARPVLHEFYEDTNSWIEDTEFLWGPALLITPVLKQGADTVSAYIPDAIWYDYESGAKRPWRKQRVDMYLPADKIGLHLRGGYIIPIQEPDVTTTASRKNPLGLIVALGENNTAKGDFFWDDGETKDTIQNGNYILYTFSVSNNTLDIVCTHSSYQEGTTLAFQTVKILGLTDSVTEVRVAENNQPMNAHSNFTYDASNQVLLIADLKLNLGRNFSVQWNQIFSENERFNCYPDADLATEQKCTQRGCVWRTGSSLSKAPECYFPRQDNSYSVNSARYSSMGITADLQLNTANARIKLPSDPISTLRVEVKYHKNDMLQFKIYDPQKKRYEVPVPLNIPTTPISTYEDRLYDVEIKENPFGIQIRRRSSGRVIWDSWLPGFAFNDQFIQISTRLPSEYIYGFGEVEHTAFKRDLNWNTWGMFTRDQPPGYKLNSYGFHPYYMALEEEGNAHGVFLLNSNAMDVTFQPTPALTYRTVGGILDFYMFLGPTPEVATKQYHEVIGHPVMPAYWALGFQLCRYGYANTSEVRELYDAMVAANIPYDVQYTDIDYMERQLDFTIGEAFQDLPQFVDKIRGEGMRYIIILDPAISGNETKTYPAFERGQQNDVFVKWPNTNDICWAKVWPDLPNITIDKTLTEDEAVNASRAHVAFPDFFRTSTAEWWAREIVDFYNEKMKFDGLWIDMNEPSSFVNGTTTNQCRNDELNYPPYFPELTKRTDGLHFRTICMEAEQILSDGTSVLHYDVHNLYGWSQMKPTHDALQKTTGKRGIVISRSTYPTSGRWGGHWLGDNYARWDNMDKSIIGMMEFSLFGMSYTGADICGFFNNSEYHLCTRWMQLGAFYPYSRNHNIANTRRQDPASWNETFAEMSRNILNIRYTLLPYFYTQMHEIHANGGTVIRPLLHEFFDEKPTWDIFKQFLWGPAFMVTPVLEPYVQTVNAYVPNARWFDYHTGKDIGVRGQFQTFNASYDTINLHVRGGHILPCQEPAQNTFYSRQKHMKLIVAADDNQMAQGSLFWDDGESIDTYERDLYLSVQFNLNQTTLTSTILKRGYINKSETRLGSLHVWGKGTTPVNAVTLTYNGNKNSLPFNEDTTNMILRIDLTTHNVTLEEPIEINWS |
| 4772 | sp|Q8WUJ0|STYX\_HUMAN | MEDVKLEFPSLPQCKEDAEEWTYPMRREMQEILPGLFLGPYSSAMKSKLPVLQKHGITHIICIRQNIEANFIKPNFQQLFRYLVLDIADNPVENIIRFFPMTKEFIDGSLQMGGKVLVHGNAGISRSAAFVIAYIMETFGMKYRDAFAYVQERRFCINPNAGFVHQLQEYEAIYLAKLTIQMMSPLQIERSLSVHSGTTGSLKRTHEEEDDFGTMQVATAQNG |
| 4773 | sp|P54136|SYRC\_HUMAN | MDVLVSECSARLLQQEEEIKSLTAEIDRLKNCGCLGASPNLEQLQEENLKLKYRLNILRKSLQAERNKPTKNMINIISRLQEVFGHAIKAAYPDLENPPLLVTPSQQAKFGDYQCNSAMGISQMLKTKEQKVNPREIAENITKHLPDNECIEKVEIAGPGFINVHLRKDFVSEQLTSLLVNGVQLPALGENKKVIVDFSSPNIAKEMHVGHLRSTIIGESISRLFEFAGYDVLRLNHVGDWGTQFGMLIAHLQDKFPDYLTVSPPIGDLQVFYKESKKRFDTEEEFKKRAYQCVVLLQGKNPDITKAWKLICDVSRQELNKIYDALDVSLIERGESFYQDRMNDIVKEFEDRGFVQVDDGRKIVFVPGCSIPLTIVKSDGGYTYDTSDLAAIKQRLFEEKADMIIYVVDNGQSVHFQTIFAAAQMIGWYDPKVTRVFHAGFGVVLGEDKKKFKTRSGETVRLMDLLGEGLKRSMDKLKEKERDKVLTAEELNAAQTSVAYGCIKYADLSHNRLNDYIFSFDKMLDDRGNTAAYLLYAFTRIRSIARLANIDEEMLQKAARETKILLDHEKEWKLGRCILRFPEILQKILDDLFLHTLCDYIYELATAFTEFYDSCYCVEKDRQTGKILKVNMWRMLLCEAVAAVMAKGFDILGIKPVQRM |
| 4774 | sp|Q03533|TDA1\_YEAST | MTTASSSASQLQQRLPEEKPWPQLSGSNADAQTFKCKYVTNHNSLGDGNFSVVKECMNIHTKDLYAMKLIKKQTVKNKIQLIQREFDLLRSISEKIRDMEKKNEHSLDIFEGHHHILQLFDYFETADNIVLITQLCQKGDLYEKIVENQCLDLETQVTSYCACLVSVLEFLHSQGIVHRDLKAENVLFRLRVNENEKNLQGEHHGDFKYDLLAHDLVLADFGLAAEYNTSKVNSLKEFVGTISYIAPEIVKCKGVGEMTPDQVGKLDKYGCPVDIWALGVLTYFMAFGYTPFDCTTDDETLECISKCDYYVDEQMMHDPKYEQFWNFVQCCFTIDPAVRRSAKNLKQHPFIKDYFATSNSLNTKDTPNFSFHPTIRRVSSTASMHTLRSPSKSRKTTTLAYLNMDGGSSETSTAFSSKMDLPDLYVDRTINSRERSLNRIRDTLKKTLSMTSLKPAGTFDYLHANKNGTSLSSSKSGLVKKNSTFVLDPKPPKNSLMNGCFSTTPESRSNFNTPKTLSRQGSSTSVKKYVNEVDLLLTPRTASMSSNDTTAINDYDTTNDKNPARKHAASFQVNVDDSDGDETMQI |
| 4775 | sp|P03681|TERM\_BPPH2 | MARSPRIRIKDNDKAEYARLVKNTKAKIARTKKKYGVDLTAEIDIPDLDSFETRAQFNKWKEQASSFTNRANMRYQFEKNAYGVVASKAKIAEIERNTKEVQRLVDEKIKAMKDKEYYAGGKPQGTIEQRIAMTSPAHVTGINRPHDFDFSKVRSYSRLRTLEESMEMRTDPQYYEKKMIQLQLNFIKSVEGSFNSFDAADELIEELKKIPPDDFYELFLRISEISFEEFDSEGNTVENVEGNVYKILSYLEQYRRGDFDLSLKGF |
| 4776 | sp|P37610|TAUD\_ECOLI | MSERLSITPLGPYIGAQISGADLTRPLSDNQFEQLYHAVLRHQVVFLRDQAITPQQQRALAQRFGELHIHPVYPHAEGVDEIIVLDTHNDNPPDNDNWHTDVTFIETPPAGAILAAKELPSTGGDTLWTSGIAAYEALSVPFRQLLSGLRAEHDFRKSFPEYKYRKTEEEHQRWREAVAKNPPLLHPVVRTHPVSGKQALFVNEGFTTRIVDVSEKESEALLSFLFAHITKPEFQVRWRWQPNDIAIWDNRVTQHYANADYLPQRRIMHRATILGDKPFYRAG |
| 4777 | sp|Q99593|TBX5\_HUMAN | MADADEGFGLAHTPLEPDAKDLPCDSKPESALGAPSKSPSSPQAAFTQQGMEGIKVFLHERELWLKFHEVGTEMIITKAGRRMFPSYKVKVTGLNPKTKYILLMDIVPADDHRYKFADNKWSVTGKAEPAMPGRLYVHPDSPATGAHWMRQLVSFQKLKLTNNHLDPFGHIILNSMHKYQPRLHIVKADENNGFGSKNTAFCTHVFPETAFIAVTSYQNHKITQLKIENNPFAKGFRGSDDMELHRMSRMQSKEYPVVPRSTVRQKVASNHSPFSSESRALSTSSNLGSQYQCENGVSGPSQDLLPPPNPYPLPQEHSQIYHCTKRKEEECSTTDHPYKKPYMETSPSEEDSFYRSSYPQQQGLGASYRTESAQRQACMYASSAPPSEPVPSLEDISCNTWPSMPSYSSCTVTTVQPMDRLPYQHFSAHFTSGPLVPRLAGMANHGSPQLGEGMFQHQTSVAHQPVVRQCGPQTGLQSPGTLQPPEFLYSHGVPRTLSPHQYHSVHGVGMVPEWSDNS |
| 4778 | sp|Q24325|TAF2\_DROME | METQPEVPEVPLRPFKLAHQVVSLTGISFERRSIIGVVELTIVPNSENLRLIRLNAKQLRIYSVVLNDVCQADFTYFDPFQNICYKEHKSRALEVYSKHHLTAAQYTDPDVNNGELLIQVPPEGYSMIQEGQGLRIRIEFSLENPKCGVHFVIPPASTDEETQMNSSHMFTNCYENSSRLWFPCVDSFADPCTWRLEFTVDKNMTAVSCGELLEVIMTPDLRKKTFHYSVSTPVCAPNIALAVGQFEIYVDPHMHEVTHFCLPGLLPLLKNTVRYLHEAFEFYEETLSTRYPFSCYKQVFVDELDTDISAYATMSIASVNLLHSIAIIDQTYISRTFMSRAVAEQFFGCFITSHHWSDTWLAKGIAEYLCGLYSRKCFGNNEYRAWVQSELARVVRYEEQYGGIILDCSQPPAPLPVSGTNQSAASSKQQEIVHYFPIKSLHTVSPKYVEAMRRKAHFVIRMLENRIGQELLIQVFNKQLALASSAATTKIGAGLWSQLLISTNIFIKAIFTVTGKDMSVFMDQWVRTGGHAKFSLTSVFNRKRNTIELEIRQDYVNQRGIRKYNGPLMVQLQELDGTFKHTLQIESTLVKSDITCHSKSRRNKKKKIPLCTGEEVDMDLSAMDDSPVLWIRLDPEMILLRDLIIEQPDFQWQYQLRHERDVTAQFQAIQALQKYPTNATRLALTDTIESERCFYQVRCEAAHSLTKVANQMVASWSGPPAMLNIFRKFFGSFSAPHIIKLNNFSNFQLYFLQKAIPVAMAGLRTSHGICPPEVMRFLFDLFKYNENSRNHYTDAYYRAALVEALGETLTPVVSVAIHGTQITTDSLSTDAKLVLDEVTRLLNMEKHLPSYKYMVSVSCLKVIRKLQKFGHLPSLPHIYRSYAEYGIYLDLRIAAMECLVDFVKVDGRSEDLEHLITLLETDPDPAARHALAQLLIDNPPFTRESRSRLDKPNLVDRLWFSINRLPYDTKLRCDIVDLYYALYGTKRPNCLQAGENQSFYKDLMKDNNSSVGSVTGSFKKTSDSKSHLPTPTNTLDNEPQERQKPAMVTIKRTATEAFEVGDEIIKLERSEEITVLDEPVNVQAYDSETKVNALQADEEARDTHQAAKRLKNEMYAEDDNSSTMLDVGDSTRYESSHEEGKLKSGDGGLKKKKKKEKKKHKHKHKHRHSKDKDKDKDKERKDKDKRDPHISRLQARETATPDTLSSEDSSNSNSLPPMNLN |
| 4779 | sp|O70306|TBX15\_MOUSE | MSERRRSAVALSSRAHAFSVEALIGSNKKRKLRDWEEKGLDLSMEALSPAGPLGDTDDPATHGLEPHPDSEQSTGSDSEVLTERTSCSFSTHTDLASGAAGPVPAAMSSMEEIQVELQCADLWKRFHDIGTEMIITKAGRRMFPAMRVKITGLDPHQQYYIAMDIVPVDNKRYRYVYHSSKWMVAGNADSPVPPRVYIHPDSLASGDTWMRQVVSFDKLKLTNNELDDQGHIILHSMHKYQPRVHVIRKDFSSDLSPTKPVPVGDGVKTFNFPETVFTTVTAYQNQQITRLKIDRNPFAKGFRDSGRNRTGLEAIMETYAFWRPPVRTLTFEDFTTMQKQQGGSTGTSPTTSSTGTPSPSASSHLLSPSCSPPTFHLAPNTFNVGCRESQLCNLNLSDYPPCARSNMAALQSYPGLSDSGYNRLQSGTASATQPSETFMPQRTPSLISGIPTPPSLPSNSKMEAYGGQLGSFPTSQFQYVMQAGNAASSSSSPHMFGGSHMQQSSYNAFSLHNPYNLYGYNFPTSPRLAASPEKLSASQSTLLCSSPSNGAFGERQYLPTGMEHSMHMISPSTNNQQATNTCDGRQYGAVPGSASQMSVHMV |
| 4780 | sp|Q5VWN6|TASO2\_HUMAN | MAPPAHKSILERSENVLMSPWKGKLIVQDRMLCDIALWSTYGAMIPTQLPQELDFKYVMKVSSLKKRLPEAAFRKQNYLEEKVCFQDLCFNLYEVELSNRQGENIDKLTECIKNKQLAIIKCLEDRGFFILLTSSALLSEPDFGGKQMGLHGLHLFRSPLSTGVKDLKVEDDISMKVIPILSTLNCALLETKKSLPEERIHPNTLVKRHFQELYKADRSPSLSVAPQDRMKDPTFLGKLPSGFDLIPPAEKCPSESLTQLNSYFSDPSAYILEVSTALDLLAEHPQSPCVSDGICDAGFSLVMTPDPEFLVSEAEVRKETETKKDSEEMLKAKKRVFPLSPASNLRVQPKRKASMPHMVQSKKVNLCRPFPKRTASRADNSSDSPTTLKLVKGQFPQKRKRGAEVLTAQFVQKTKLDRKNQEAPISKDVPVPTNAKRARKQEKSPVKTVPRAKPPVKKSPQKQRVNIVKGNENPRNRKQLQPVKGETASKLQSEISRGCQEDGISINSVQPENTTAAHNDLPENSIVNYDSQALNMLADLALSSATSSTPVSEARNLHCSSELPQNDVLLSKENSLRGTSDHEYHRGVKTQKGELLPNPSSDRKSNSGSDLTVSQDEESLVPCSQAPAKAQSALTEEMLESSDASQSSSVSVEHSYALLLTEHSKKHLQEREILSPLFPRNGTKSPEAATPVGKVMPFRHQPGLLLQQKPPDDPVVKPKDRPPSARVKKSSCSRIVLSCDDSVKITFKCETEYAFSLDSKYTNNPLEKTVVRALHGPWNTDLPDNVEEVKLLLHMWVALFYSNQNKIIRSSRKVVEHSNPAKYVSINSTLESCELREIEESLGLEKCSADSLLETNEISRAHAAEVSFRDPNCLLPFIKTPLTQGLELCVQNEQKKTFARECDPDTQEDQNFICSYNNEVTGEEAKQESLETSNLVLSGIGSTQTNGPSVPSEEEIVQPLDSTRVASYSGTVTQATFTRTYDGPGSQPVICQSSVYGTLENKVDILDAAVQTKTGTLQDLIQHGSPINNECHPSLERKDDNMGCAVINPEPITLTFEKNAHVPIQTEGVNTADERTTFKKELIKQVSPAASLRHPVSTSENARTQGLRDIPSLVVAGQKGTKYLCASSVGGETLDKAVCSLQKETPLPVSLPSDKTMVMEALSLAKSSSHLSPSEEVRCTQDFLSQTQSLLGLSSEGLLELTQVEVDSSSASTTLGRQCSLNCISSGCHTSGDSLELRKNHKNGPNTENMNLEAFDSVFIKQTSLSVSREVSLELSEEDSDIDLALTISPPTSPREEMPAGEIEQFEEAPFSNLELQDVAEEIGEPEEVALTESREVSSADNVSVYPSVSEEPVENKERKGDNLQPVTLILSKENCTLEIAEEINVTSDFPFDSVIEEVSPASSPEPPVPVKETRPYQAVTPCILKLHGTQCEKSNQISQCESEDLGITEKENVFVGPTHPVGQDNFTQVQQMQVSAEMPLILTDHPGRTGRPTLPGKVTEEIVSSEHDEGLSFSGKVQCYGRELNQPASAAKCTGDFSPSPEKLVKSGNPLQPVSIENRNLDLKHLVLESSEPPFGPRNVIENKSLSDTLVSTTAPSGIVNVSVKQQTSPKSSQNHLFPGDLKTDEGIYLQVKSLTAASVDGAYSTQGCMCSVVPTLCSSSDNATLTHYVRPINAEPVFQAQEIPAGRMASLLKNGEPEAELHKETTGPGTAGPQSNTTSSLKGERKAIHTLQDVSTCETKELLNVGVSSLCAGPYQNTADTKENLSKEPLASFVSESFDTSVCGIATEHVEIENSGEGLRAEAGSETLGRDGEVGVNSDMHYELSGDSDLDLLGDCRNPRLDLEDSYTLRGSYTRKKDVPTDGYESSLNFHNNNQEDWGCSSWVPGMETSLPPGHWTAAVKKEEKCVPPYVQIRDLHGILRTYANFSITKELKDTMRTSHGLRRHPSFSANCGLPSSWTSTWQVADDLTQNTLDLEYLRFAHKLKQTIKNGDSQHSASSANVFPKESPTQISIGAFPSTKISEAPFLHPAPRSRSPLLVTVVESDPRPQGQPRRGYTASSLDSSSSWRERCSHNRDLRNSQRNHTVSFHLNKLKYNSTVKESRNDISLILNEYAEFNKVMKNSNQFIFQDKELNDVSGEATAQEMYLPFPGRSASYEDIIIDVCTNLHVKLRSVVKEACKSTFLFYLVETEDKSFFVRTKNLLRKGGHTEIEPQHFCQAFHRENDTLIIIIRNEDISSHLHQIPSLLKLKHFPSVIFAGVDSPGDVLDHTYQELFRAGGFVISDDKILEAVTLVQLKEIIKILEKLNGNGRWKWLLHYRENKKLKEDERVDSTAHKKNIMLKSFQSANIIELLHYHQCDSRSSTKAEILKCLLNLQIQHIDARFAVLLTDKPTIPREVFENSGILVTDVNNFIENIEKIAAPFRSSYW |
| 4781 | sp|Q9I9K7|TBX20\_DANRE | MEYTSSPKPQLSSRANAFSIAALMSSGKTKDKESEENTIKPLEQFVEKSSCHPNLGDLPPLETHSDFSSGGGTGSGAPLCTEPLIPTTPGVPSEEMAKISCSLETKELWDKFHELGTEMIITKSGRRMFPTIRVSFSGVDPDAKYIVLMDIVPVDNKRYRYAYHRSSWLVAGKADPPLPARLYVHPDSPFTGEQLLKQMVSFEKVKLTNNELDQHGHIILNSMHKYQPRVHIIKKKDHTASLLNLKSEEFRTFVFTETVFTAVTAYQNQLITRLKIDSNPFAKGFRDSSRLTDIERESVESLIHKHSYARSPIRTYAGDEETLGEEGHSAHSRGSAFTASDNLSLSSWVTTTSGFSGFQHPQSLSAIGTSTASLASPLPHPIQGSLPPYSRLGMPLTPSALASSMQATGPTFPSFHMPRYHHYFQQGPYAAIQGLRHSSTVMTPFV |
| 4782 | sp|G5EGU9|SZY20\_CAEEL | MSKENVVADSWDDADADPVKELMDKVEKVKLLQRKEEKKEAFFEKVKAEESSGVVSKLQTEEGLGPSAEEPKRVFLRRPKDGFAASENVIEASPPTSADTEEQPVTNVRSRSHHKLNQKEKQPAPTYEERQAAYQAARNRILGTEYKPDNQEIKEIKFIDRSKSPETLKMTQQNMVEHYGEELSRELMEQPAEIVPPERQYTPDFTQPPPSVSESGGVYNGPPGFQQKQPNFQPTLQQQSLHQQQYLDNQYMMQMNVQIPIQYHNQTQHQFVPHEASAISTTSQNSNGDGQNDQAIYYYQAPTQQPMNYIPYNLPNMAYPPPNFQPQGQLHHQMNAGQLHQIQQQQQQCQQIQHQPPQQHQQVINGQVMNQQNQRNQVNSYPQQNGAGRGQNRQPMMYQMPCNSGPTAKPPPLMNQMQNRCMTNNGQNYQNRNMQQQGQQRSYSSQPQNGQFYQNGNSNQNNPNNGRKQQHQPQQQQNKSGKFGQNRNDMQKNNYQPNLQQPPMSQNPIPFGCPPRNVNAIREQHANNGSPNTGAGILGPHPMMSASQWPALQQNRPQ |
| 4783 | sp|Q6Y685|TACC1\_MOUSE | MAFSPWQILSPVQWAKWTWSAVRGSGAGEDEAGGPEGDPEEEEDSQAETKSLSFSSDSEGNFETPEAETPIRSPLKESCDSSPGLAEPEAKPQESREADEQLVAEVIEKCSPDTCSRSSENEAPQATVDSHPVKDVRGKAEHDVSKISVVRPFSIETRNCTDDPAALGTAAAHGCVPVLPGMALPSTTPEATQDEPVMDRGMGVTLEAFTEASLKTGGPCPEPVASRSKLRKPKPVSLRKKMAPEPEMLMEGSPLPKASSPWLPDGLDQNANPSVLRGSGAQRSPLNLKETAGVLSNDTSDSGVEVAPGSPPLQLEDDFTEDGENVKIRSALPKQSGRKPSNKLAPSIRKDGVSKPVGVEQPSDPTVQDALLDQMSPKLDPSKRSHPPANFFGSGPILQNSPPLSSKCSHHFDPNNINTDDSGDPCKPTPALTSSGFCPATGNHVNEILDSPKKAKSRLITSGCKVKKYEAQPLDLDACSQDEGAVISKISEIPNRDGHATDEEKLASTSSCAQKSAGAGVKGIEKETCQKMEKEELAVHGLLESSSEKAPVSVACGGESPLDGICLSEADKTAVLTLIREEIITKEIEANEWKKKYEETREEVLEMRKIVAEYEKTIAQMIEDEQRTSMSSQKSFQQLTMEKEQALADLNSVERSLSDLFRRYENLKGVLEGFKKNEEALKKCAQDYLARVKQEEQRYQALKVHAEEKLDRANEEIAQVRSKAKAESAALHAGLRKEQMKVESLERALQQKNQEIEELTKICDELIAKLGKTD |
| 4784 | sp|Q99K90|TAB2\_MOUSE | MAQGSHQIDFQVLHDLRQKFPEVPEVVVSRCMLQNNNNLDACCAVLSQESTRYLYGEGDLNFSDESGISGLRNHMTSLNLDLQSQNVYHHGREGSRVNGSRTLTHSVSDGQLHGGQSNNELFQQEPQTAPAQVPQGFNVFGMPSTSGASNSTPHLGFHLGSKGTSNLSQQTPRFNPIMVTLAPNIQTGRSTPTSLHIHGVPPPVLNSPQGNSIYIRPYITTPSGTARQTQQHSGWVSQFNPMNPQQAYQPSQPGPWTTYPASNPLPHTSTQQPNQQGHQTSHVYMPISSPTTPQPPTIHSSGSSQSSAHSQYNIQNISTGPRKNQIEIKLEPPQRNSSSKLRSSGPRTASTSSLVNSQTLNRNQPTVYIAASPPNTDEMISRSQPKVYISANATAGDEQGMRNQPTLFISTNSGPSAASRNMSGQVSMGPAFIHHHPPKSRVLGGNSATSPRVVVTQPNTKYTFKITVSPNKPPAVSPGVVSPTFELTNLLNHPDHYVETENIQHLTDPALAHVDRISEARKLSMGSDDAAYTQALLVHQKARMERLQRELEMQKKKLDKLKSEVNEMENNLTRRRLKRSNSISQIPSLEEMQQLRSCNRQLQIDIDCLTKEIDLFQARGPHFNPSAIHNFYDNIGFVGPVPPKPKDQRSTIKAPKTQDAEDEEGAQWNCTACTFLNHPALIRCEQCEMPRHF |
| 4785 | sp|Q8SAS8|TBSYN\_HYPAN | MAPAMEYSTQNGQGEGKKRASVLAIGTTNPEHFILQEDYPDFYFRNTNSEHMTELKEKFKRICVKSHIRKRHFYLTEEILKENQGIATYGAGSLDARQRILETEVPKLGQEAALKAIAEWGQPISKITHVVFATTSGFMMPGADYVITRLLGLNRTVRRVMLYNQGCFAGGTALRVAKDLAENNEGARVLVVCAENTAMTFHAPNESHLDVIVGQAMFSDGAAALIIGACPDVASGERAVFNILSASQTIVPGSDGAITAHFYEMGMSYFLKEDVIPLFRDNIAAVMEEAFSPLGVSDWNSLFYSIHPGGRGIIDGVAGNLGIKDENLVATRHVLGEYGNMGSACVMFILDELRKSSKVNGKPTTGDGKEFGCLIGLGPGLTVEAVVLQSVPILQ |
| 4786 | sp|Q9P2M4|TBC14\_HUMAN | MTDGKLSTSTNGVAFMGILDGRPGNPLQNLQHVNLKAPRLLSAPEYGPKLKLRALEDRHSLQSVDSGIPTLEIGNPEPVPCSAVHVRRKQSDSDLIPERAFQSACALPSCAPPAPSSTEREQSVRKSSTFPRTGYDSVKLYSPTSKALTRSDDVSVCSVSSLGTELSTTLSVSNEDILDLVVTSSSSAIVTLENDDDPQFTNVTLSSIKETRGLHQQDCVHEAEEGSKLKILGPFSNFFARNLLARKQSARLDKHNDLGWKLFGKAPLRENAQKDSKRIQKEYEDKAGRPSKPPSPKQNVRKNLDFEPLSTTALILEDRPANLPAKPAEEAQKHRQQYEEMVVQAKKRELKEAQRRKKQLEERCRVEESIGNAVLTWNNEILPNWETMWCSRKVRDLWWQGIPPSVRGKVWSLAIGNELNITHELFDICLARAKERWRSLSTGGSEVENEDAGFSAADREASLELIKLDISRTFPNLCIFQQGGPYHDMLHSILGAYTCYRPDVGYVQGMSFIAAVLILNLDTADAFIAFSNLLNKPCQMAFFRVDHGLMLTYFAAFEVFFEENLPKLFAHFKKNNLTPDIYLIDWIFTLYSKSLPLDLACRIWDVFCRDGEEFLFRTALGILKLFEDILTKMDFIHMAQFLTRLPEDLPAEELFASIATIQMQSRNKKWAQVLTALQKDSREMEKGSPSLRH |
| 4787 | sp|O60220|TIM8A\_HUMAN | MDSSSSSSAAGLGAVDPQLQHFIEVETQKQRFQQLVHQMTELCWEKCMDKPGPKLDSRAEACFVNCVERFIDTSQFILNRLEQTQKSKPVFSESLSD |
| 4788 | sp|Q9C9L2|TCP15\_ARATH | MDPDPDHNHRPNFPLQLLDSSTSSSSTSLAIISTTSEPNSEPKKPPPKRTSTKDRHTKVEGRGRRIRMPAMCAARVFQLTRELGHKSDGETIEWLLQQAEPAVIAATGTGTIPANFTSLNISLRSSRSSLSAAHLRTTPSSYYFHSPHQSMTHHLQHQHQVRPKNESHSSSSSSSQLLDHNQMGNYLVQSTAGSLPTSQSPATAPFWSSGDNTQNLWAFNINPHHSGVVAGDVYNPNSGGSGGGSGVHLMNFAAPIALFSGQPLASGYGGGGGGGGEHSHYGVLAALNAAYRPVAETGNHNNNQQNRDGDHHHNHQEDGSTSHHS |
| 4789 | sp|Q9Y5J7|TIM9\_HUMAN | MAAQIPESDQIKQFKEFLGTYNKLTETCFLDCVKDFTTREVKPEETTCSEHCLQKYLKMTQRISMRFQEYHIQQNEALAAKAGLLGQPR |
| 4790 | sp|Q6PL24|TMED8\_HUMAN | MSDLQAAEGPGSWSPTARPGSAGGVGDCQGVEGSQAAASENEDLENKDTSLLASATDPEPCSSPHRPQMVSPVSKDATEDLRKATGPLEAQALVKQDLLPADQAQVLNEMAKYQVPQRSGDIVMIQSEHTGAIDVLSADLESADLLGDHRKVSPPLMAPPCIWTFAKVKEFKSKLGKEKNSRLVVKRGEVVTIRVPTHPEGKRVCWEFATDDYDIGFGVYFDWTPVTSTDITVQVSDSSDDEDEEEEEEEEIEEPVPAGDVERGSRSSLRGRYGEVMPVYRRDSHRDVQAGSHDYPGEGIYLLKFDNSYSLLRNKTLYFHIYYTS |
| 4791 | sp|P0A847|TGT\_ECOLI | MKFELDTTDGRARRGRLVFDRGVVETPCFMPVGTYGTVKGMTPEEVEATGAQIILGNTFHLWLRPGQEIMKLHGDLHDFMQWKGPILTDSGGFQVFSLGDIRKITEQGVHFRNPINGDPIFLDPEKSMEIQYDLGSDIVMIFDECTPYPADWDYAKRSMEMSLRWAKRSRERFDSLGNKNALFGIIQGSVYEDLRDISVKGLVDIGFDGYAVGGLAVGEPKADMHRILEHVCPQIPADKPRYLMGVGKPEDLVEGVRRGIDMFDCVMPTRNARNGHLFVTDGVVKIRNAKYKSDTGPLDPECDCYTCRNYSRAYLHHLDRCNEILGARLNTIHNLRYYQRLMAGLRKAIEEGKLESFVTDFYQRQGREVPPLNVD |
| 4792 | sp|P42533|TF\_RAT | MAIPMRPRLLAALAPTFLGFLLLQVAVGAGTPPGKAFNLTWISTDFKTILEWQPKPTNYTYTVQISDRSRNWKYKCTGTTDTECDLTDEIVKDVNWTYEARVLSVPWRNSTHGKETLFGTHGEEPPFTNARKFLPYRDTKIGQPVIQKYEQGGTKLKVTVKDSFTLVRKNGTFLTLRQVFGNDLGYILTYRKDSSTGRKTNTTHTNEFLIDVEKGVSYCFFAQAVIFSRKTNHKSPESITKCTEQWKSVLGETLIIVGAVVFLVTVFIILLTISLCKRRKNRAGQKRKNTPSRLA |
| 4793 | sp|P11232|THIO\_RAT | MVKLIESKEAFQEALAAAGDKLVVVDFSATWCGPCKMIKPFFHSLCDKYSNVVFLEVDVDDCQDVAADCEVKCMPTFQFYKKGQKVGEFSGANKEKLEATITEFA |
| 4794 | sp|Q93VV9|TM16B\_ARATH | MAGRLLANLIVMGSGIIGRAVFQAYRQALANASKSGVAQEAMQNGVRQAGKAITEQEARQILGVTEKTSWEEILQKYDKLFENNAKAGSFYLQSKVHRAKECLEVVYRSQGNGTPS |
| 4795 | sp|Q9UBB9|TFP11\_HUMAN | MSLSHLYRDGEGRIDDDDDERENFEITDWDLQNEFNPNRQRHWQTKEEATYGVWAERDSDDERPSFGGKRARDYSAPVNFISAGLKKGAAEEAELEDSDDEEKPVKQDDFPKDFGPRKLKTGGNFKPSQKGFAGGTKSFMDFGSWERHTKGIGQKLLQKMGYVPGRGLGKNAQGIINPIEAKQRKGKGAVGAYGSERTTQSMQDFPVVDSEEEAEEEFQKELSQWRKDPSGSKKKPKYSYKTVEELKAKGRISKKLTAPQKELSQVKVIDMTGREQKVYYSYSQISHKHNVPDDGLPLQSQQLPQSGKEAKAPGFALPELEHNLQLLIDLTEQEIIQNDRQLQYERDMVVNLFHELEKMTEVLDHEERVISNLSKVLEMVEECERRMQPDCSNPLTLDECARIFETLQDKYYEEYRMSDRVDLAVAIVYPLMKEYFKEWDPLKDCTYGTEIISKWKSLLENDQLLSHGGQDLSADAFHRLIWEVWMPFVRNIVTQWQPRNCDPMVDFLDSWVHIIPVWILDNILDQLIFPKLQKEVENWNPLTDTVPIHSWIHPWLPLMQARLEPLYSPIRSKLSSALQKWHPSDSSAKLILQPWKDVFTPGSWEAFMVKNIVPKLGMCLGELVINPHQQHMDAFYWVIDWEGMISVSSLVGLLEKHFFPKWLQVLCSWLSNSPNYEEITKWYLGWKSMFSDQVLAHPSVKDKFNEALDIMNRAVSSNVGAYMQPGARENIAYLTHTERRKDFQYEAMQERREAENMAQRGIGVAASSVPMNFKDLIETKAEEHNIVFMPVIGKRHEGKQLYTFGRIVIYIDRGVVFVQGEKTWVPTSLQSLIDMAK |
| 4796 | sp|Q64092|TFE3\_MOUSE | MSHAAEPARDAVEASAEGPRAVFLLLEERRPAESAQLLSLNSLLPESGIVADIELENILDPDSFYELKSQPLFLRSSLPISLQATPTTPATLSASSSAGGSRTPAMSSSSSRVLLRQQLMRAQAQEQERRERREQAAAAPFPSPAPASPAISVIGVSAGGHTLSRPPPAQVPREVLKVQTHLENPTRYHLQQARRQQVKQYLSTTLGPKLASQALTPPPGPSSAQPLPAPETAHATGPTGSAPNSPMALLTIGSSSEKEIDDVIDEIISLESSYNDEMLSYLPGGTAGLQLPSTLPVSGNLLDVYSSQGVATPAITVSNSCPAELPNIKREISETEAKALLKERQKKDNHNLIERRRRFNINDRIKELGTLIPKSNDPEMRWNKGTILKASVDYIRKLQKEQQRSKDLESRQRSLEQANRSLQLRIQELELQAQIHGLPVPPNPGLLSLTTSSVSDSLKPEQLDIEEEGRPSTTFHVSGGPAQNAPPQQPPAPPSDALLDLHFPSDHLGDLGDPFHLGLEDILMEEEGMVGGLSGGALSPLRAASDPLLSSVSPAVSKASSRRSSFSMEEES |
| 4797 | sp|Q93038|TNR25\_HUMAN | MEQRPRGCAAVAAALLLVLLGARAQGGTRSPRCDCAGDFHKKIGLFCCRGCPAGHYLKAPCTEPCGNSTCLVCPQDTFLAWENHHNSECARCQACDEQASQVALENCSAVADTRCGCKPGWFVECQVSQCVSSSPFYCQPCLDCGALHRHTRLLCSRRDTDCGTCLPGFYEHGDGCVSCPTSTLGSCPERCAAVCGWRQMFWVQVLLAGLVVPLLLGATLTYTYRHCWPHKPLVTADEAGMEALTPPPATHLSPLDSAHTLLAPPDSSEKICTVQLVGNSWTPGYPETQEALCPQVTWSWDQLPSRALGPAAAPTLSPESPAGSPAMMLQPGPQLYDVMDAVPARRWKEFVRTLGLREAEIEAVEVEIGRFRDQQYEMLKRWRQQQPAGLGAVYAALERMGLDGCVEDLRSRLQRGP |
| 4798 | sp|A2RU14|TM218\_HUMAN | MAGTVLGVGAGVFILALLWVAVLLLCVLLSRASGAARFSVIFLFFGAVIITSVLLLFPRAGEFPAPEVEVKIVDDFFIGRYVLLAFLSAIFLGGLFLVLIHYVLEPIYAKPLHSY |
| 4799 | sp|P0A879|TRPB\_ECOLI | MTTLLNPYFGEFGGMYVPQILMPALRQLEEAFVSAQKDPEFQAQFNDLLKNYAGRPTALTKCQNITAGTNTTLYLKREDLLHGGAHKTNQVLGQALLAKRMGKTEIIAETGAGQHGVASALASALLGLKCRIYMGAKDVERQSPNVFRMRLMGAEVIPVHSGSATLKDACNEALRDWSGSYETAHYMLGTAAGPHPYPTIVREFQRMIGEETKAQILEREGRLPDAVIACVGGGSNAIGMFADFINETNVGLIGVEPGGHGIETGEHGAPLKHGRVGIYFGMKAPMMQTEDGQIEESYSISAGLDFPSVGPQHAYLNSTGRADYVSITDDEALEAFKTLCLHEGIIPALESSHALAHALKMMRENPDKEQLLVVNLSGRGDKDIFTVHDILKARGEI |
| 4800 | sp|Q9Y4K3|TRAF6\_HUMAN | MSLLNCENSCGSSQSESDCCVAMASSCSAVTKDDSVGGTASTGNLSSSFMEEIQGYDVEFDPPLESKYECPICLMALREAVQTPCGHRFCKACIIKSIRDAGHKCPVDNEILLENQLFPDNFAKREILSLMVKCPNEGCLHKMELRHLEDHQAHCEFALMDCPQCQRPFQKFHINIHILKDCPRRQVSCDNCAASMAFEDKEIHDQNCPLANVICEYCNTILIREQMPNHYDLDCPTAPIPCTFSTFGCHEKMQRNHLARHLQENTQSHMRMLAQAVHSLSVIPDSGYISEVRNFQETIHQLEGRLVRQDHQIRELTAKMETQSMYVSELKRTIRTLEDKVAEIEAQQCNGIYIWKIGNFGMHLKCQEEEKPVVIHSPGFYTGKPGYKLCMRLHLQLPTAQRCANYISLFVHTMQGEYDSHLPWPFQGTIRLTILDQSEAPVRQNHEEIMDAKPELLAFQRPTIPRNPKGFGYVTFMHLEALRQRTFIKDDTLLVRCEVSTRFDMGSLRREGFQPRSTDAGV |
| 4801 | sp|Q9BZR9|TRIM8\_HUMAN | MAENWKNCFEEELICPICLHVFVEPVQLPCKHNFCRGCIGEAWAKDSGLVRCPECNQAYNQKPGLEKNLKLTNIVEKFNALHVEKPPAALHCVFCRRGPPLPAQKVCLRCEAPCCQSHVQTHLQQPSTARGHLLVEADDVRAWSCPQHNAYRLYHCEAEQVAVCQYCCYYSGAHQGHSVCDVEIRRNEIRKMLMKQQDRLEEREQDIEDQLYKLESDKRLVEEKVNQLKEEVRLQYEKLHQLLDEDLRQTVEVLDKAQAKFCSENAAQALHLGERMQEAKKLLGSLQLLFDKTEDVSFMKNTKSVKILMDRTQTCTSSSLSPTKIGHLNSKLFLNEVAKKEKQLRKMLEGPFSTPVPFLQSVPLYPCGVSSSGAEKRKHSTAFPEASFLETSSGPVGGQYGAAGTASGEGQSGQPLGPCSSTQHLVALPGGAQPVHSSPVFPPSQYPNGSAAQQPMLPQYGGRKILVCSVDNCYCSSVANHGGHQPYPRSGHFPWTVPSQEYSHPLPPTPSVPQSLPSLAVRDWLDASQQPGHQDFYRVYGQPSTKHYVTS |
| 4802 | sp|Q8C006|TRI35\_MOUSE | MEPGPSVSPGPSRSFKEELLCAVCYDPFRDAVTLRCGHNFCRRCVSGCWEVQTTPSCPVCKERAVPGELRTNHTLNNLVETLLREEAEGARWTGRRSPRPCRAHRAPLTLFCLEDKELLCCACQADARHQEHRVQPIKDTAQDFRAKCKNMEHVLREKAKAFWALRRTYEAIAKHNEVQTTWLEGRIRDEFDKLRDFLRVEEQATLDAMKEESRKKHLQAEEKMKQLAEQTEALAREIERLQMEMKEDDMTFLMKHKSRKRRLFCTVEPAPLQPGLLMDACKYLESLQYRVWKKMLGSVESVPFSLDPNTAAGWLKVADDLTSVINHGYRVQVENPERFSSAPCLLGSQVFSKGSHSWEVDVGGLPTWRVGVVRVQAHAQAQAQADVGGEGHSHSCYHDTRSGFWYLCRTQGVDGDHCMTSDTATAPLVQAMPRRLRVELECEEGELSFYDSERHCHLYTFHAHFGEVRPYFYLGASRGDGPPEPLRICHLRVSIKEELDI |
| 4803 | sp|P08953|TOLL\_DROME | MSRLKAASELALLVIILQLLQWPGSEASFGRDACSEMSIDGLCQCAPIMSEYEIICPANAENPTFRLTIQPKDYVQIMCNLTDTTDYQQLPKKLRIGEVDRVQMRRCMLPGHTPIASILDYLGIVSPTTLIFESDNLGMNITRQHLDRLHGLKRFRFTTRRLTHIPANLLTDMRNLSHLELRANIEEMPSHLFDDLENLESIEFGSNKLRQMPRGIFGKMPKLKQLNLWSNQLHNLTKHDFEGATSVLGIDIHDNGIEQLPHDVFAHLTNVTDINLSANLFRSLPQGLFDHNKHLNEVRLMNNRVPLATLPSRLFANQPELQILRLRAELQSLPGDLFEHSTQITNISLGDNLLKTLPATLLEHQVNLLSLDLSNNRLTHLPDSLFAHTTNLTDLRLEDNLLTGISGDIFSNLGNLVTLVMSRNRLRTIDSRAFVSTNGLRHLHLDHNDIDLQQPLLDIMLQTQINSPFGYMHGLLTLNLRNNSIIFVYNDWKNTMLQLRELDLSYNNISSLGYEDLAFLSQNRLHVNMTHNKIRRIALPEDVHLGEGYNNNLVHVDLNDNPLVCDCTILWFIQLVRGVHKPQYSRQFKLRTDRLVCSQPNVLEGTPVRQIEPQTLICPLDFSDDPRERKCPRGCNCHVRTYDKALVINCHSGNLTHVPRLPNLHKNMQLMELHLENNTLLRLPSANTPGYESVTSLHLAGNNLTSIDVDQLPTNLTHLDISWNHLQMLNATVLGFLNRTMKWRSVKLSGNPWMCDCTAKPLLLFTQDNFERIGDRNEMMCVNAEMPTRMVELSTNDICPAEKGVFIALAVVIALTGLLAGFTAALYYKFQTEIKIWLYAHNLLLWFVTEEDLDKDKKFDAFISYSHKDQSFIEDYLVPQLEHGPQKFQLCVHERDWLVGGHIPENIMRSVADSRRTIIVLSQNFIKSEWARLEFRAAHRSALNEGRSRIIVIIYSDIGDVEKLDEELKAYLKMNTYLKWGDPWFWDKLRFALPHRRPVGNIGNGALIKTALKGSTDDKLELIKPSPVTPPLTTPPAEATKNPLVAQLNGVTPHQAIMIANGKNGLTNLYTPNGKSHGNGHINGAFIINTNAKQSDV |
| 4804 | sp|Q9UL62|TRPC5\_HUMAN | MAQLYYKKVNYSPYRDRIPLQIVRAETELSAEEKAFLNAVEKGDYATVKQALQEAEIYYNVNINCMDPLGRSALLIAIENENLEIMELLLNHSVYVGDALLYAIRKEVVGAVELLLSYRRPSGEKQVPTLMMDTQFSEFTPDITPIMLAAHTNNYEIIKLLVQKRVTIPRPHQIRCNCVECVSSSEVDSLRHSRSRLNIYKALASPSLIALSSEDPILTAFRLGWELKELSKVENEFKAEYEELSQQCKLFAKDLLDQARSSRELEIILNHRDDHSEELDPQKYHDLAKLKVAIKYHQKEFVAQPNCQQLLATLWYDGFPGWRRKHWVVKLLTCMTIGFLFPMLSIAYLISPRSNLGLFIKKPFIKFICHTASYLTFLFMLLLASQHIVRTDLHVQGPPPTVVEWMILPWVLGFIWGEIKEMWDGGFTEYIHDWWNLMDFAMNSLYLATISLKIVAYVKYNGSRPREEWEMWHPTLIAEALFAISNILSSLRLISLFTANSHLGPLQISLGRMLLDILKFLFIYCLVLLAFANGLNQLYFYYETRAIDEPNNCKGIRCEKQNNAFSTLFETLQSLFWSVFGLLNLYVTNVKARHEFTEFVGATMFGTYNVISLVVLLNMLIAMMNNSYQLIADHADIEWKFARTKLWMSYFDEGGTLPPPFNIIPSPKSFLYLGNWFNNTFCPKRDPDGRRRRRNLRSFTERNADSLIQNQHYQEVIRNLVKRYVAAMIRNSKTHEGLTEENFKELKQDISSFRYEVLDLLGNRKHPRSFSTSSTELSQRDDNNDGSGGARAKSKSVSFNLGCKKKTCHGPPLIRTMPRSSGAQGKSKAESSSKRSFMGPSLKKLGLLFSKFNGHMSEPSSEPMYTISDGIVQQHCMWQDIRYSQMEKGKAEACSQSEINLSEVELGEVQGAAQSSECPLACSSSLHCASSICSSNSKLLDSSEDVFETWGEACDLLMHKWGDGQEEQVTTRL |
| 4805 | sp|P06786|TOP2\_YEAST | MSTEPVSASDKYQKISQLEHILKRPDTYIGSVETQEQLQWIYDEETDCMIEKNVTIVPGLFKIFDEILVNAADNKVRDPSMKRIDVNIHAEEHTIEVKNDGKGIPIEIHNKENIYIPEMIFGHLLTSSNYDDDEKKVTGGRNGYGAKLCNIFSTEFILETADLNVGQKYVQKWENNMSICHPPKITSYKKGPSYTKVTFKPDLTRFGMKELDNDILGVMRRRVYDINGSVRDINVYLNGKSLKIRNFKNYVELYLKSLEKKRQLDNGEDGAAKSDIPTILYERINNRWEVAFAVSDISFQQISFVNSIATTMGGTHVNYITDQIVKKISEILKKKKKKSVKSFQIKNNMFIFINCLIENPAFTSQTKEQLTTRVKDFGSRCEIPLEYINKIMKTDLATRMFEIADANEENALKKSDGTRKSRITNYPKLEDANKAGTKEGYKCTLVLTEGDSALSLAVAGLAVVGRDYYGCYPLRGKMLNVREASADQILKNAEIQAIKKIMGLQHRKKYEDTKSLRYGHLMIMTDQDHDGSHIKGLIINFLESSFPGLLDIQGFLLEFITPIIKVSITKPTKNTIAFYNMPDYEKWREEESHKFTWKQKYYKGLGTSLAQEVREYFSNLDRHLKIFHSLQGNDKDYIDLAFSKKKADDRKEWLRQYEPGTVLDPTLKEIPISDFINKELILFSLADNIRSIPNVLDGFKPGQRKVLYGCFKKNLKSELKVAQLAPYVSECTAYHHGEQSLAQTIIGLAQNFVGSNNIYLLLPNGAFGTRATGGKDAAAARYIYTELNKLTRKIFHPADDPLYKYIQEDEKTVEPEWYLPILPMILVNGAEGIGTGWSTYIPPFNPLEIIKNIRHLMNDEELEQMHPWFRGWTGTIEEIEPLRYRMYGRIEQIGDNVLEITELPARTWTSTIKEYLLLGLSGNDKIKPWIKDMEEQHDDNIKFIITLSPEEMAKTRKIGFYERFKLISPISLMNMVAFDPHGKIKKYNSVNEILSEFYYVRLEYYQKRKDHMSERLQWEVEKYSFQVKFIKMIIEKELTVTNKPRNAIIQELENLGFPRFNKEGKPYYGSPNDEIAEQINDVKGATSDEEDEESSHEDTENVINGPEELYGTYEYLLGMRIWSLTKERYQKLLKQKQEKETELENLLKLSAKDIWNTDLKAFEVGYQEFLQRDAEARGGNVPNKGSKTKGKGKRKLVDDEDYDPSKKNKKSTARKGKKIKLEDKNFERILLEQKLVTKSKAPTKIKKEKTPSVSETKTEEEENAPSSTSSSSIFDIKKEDKDEGELSKISNKFKKISTIFDKMGSTSATSKENTPEQDDVATKKNQTTAKKTAVKPKLAKKPVRKQQKVVELSGESDLEILDSYTDREDSNKDEDDAIPQRSRRQRSSRAASVPKKSYVETLELSDDSFIEDDEEENQGSDVSFNEED |
| 4806 | sp|Q5NCC9|TRI58\_MOUSE | MATAPGERLQEEARCSVCLDFLQEPISVDCGHSFCLRCISEFCEKSDSAQGVYACPQCRGPFRPASFRPNRQLASLVDSVRQLGLGTGHAGSRQCARHGEDLSHFCEEDQTMLCWVCDTSPEHRSHRTETLQEAASRYQRMLRASLELVKKEMEEALTQEANVGKKTIIWKEKVEMQRQRFRLEFEKHRGFLAQEEQLQLRRLEEEERATLQRLRDSRNRLAQQNKALKELAEELEERSQRPAPGLLEGARGVLTRCEAITRLEPEAVPMDLKTVCRIPGMREMLRKFQVDVKLDPATAHPSLLLTADLRSVQDAEVWRDVPSNPERFDTWPCILGLQGFSSGRHYWEVIVGERAEWGLGVCRDSVLRKGETTPSPENGVWAMWLLRGNEYMVLSSPSVPVLQDERPRRIGIFLDYEAGEISFYNVTNGSYIYTFNHLFSGVLRPYFFVCDTTPLILPPMTEAAPGNWTPRGIFDLAAAARNEEY |
| 4807 | sp|Q9NRR5|UBQL4\_HUMAN | MAEPSGAETRPPIRVTVKTPKDKEEIVICDRASVKEFKEEISRRFKAQQDQLVLIFAGKILKDGDTLNQHGIKDGLTVHLVIKTPQKAQDPAAATASSPSTPDPASAPSTTPASPATPAQPSTSGSASSDAGSGSRRSSGGGPSPGAGEGSPSATASILSGFGGILGLGSLGLGSANFMELQQQMQRQLMSNPEMLSQIMENPLVQDMMSNPDLMRHMIMANPQMQQLMERNPEISHMLNNPELMRQTMELARNPAMMQEMMRNQDRALSNLESIPGGYNALRRMYTDIQEPMFSAAREQFGNNPFSSLAGNSDSSSSQPLRTENREPLPNPWSPSPPTSQAPGSGGEGTGGSGTSQVHPTVSNPFGINAASLGSGMFNSPEMQALLQQISENPQLMQNVISAPYMRSMMQTLAQNPDFAAQMMVNVPLFAGNPQLQEQLRLQLPVFLQQMQNPESLSILTNPRAMQALLQIQQGLQTLQTEAPGLVPSLGSFGISRTPAPSAGSNAGSTPEAPTSSPATPATSSPTGASSAQQQLMQQMIQLLAGSGNSQVQTPEVRFQQQLEQLNSMGFINREANLQALIATGGDINAAIERLLGSQLS |
| 4808 | sp|P69726|VPR\_HV1H2 | MEQAPEDQGPQREPHNEWTLELLEELKNEAVRHFPRIWLHGLGQHIYETYGDTWAGVEAIIRILQQLLFIHFRIGCRHSRIGVTRQRRARNGASRS |
| 4809 | sp|Q15386|UBE3C\_HUMAN | MFSFEGDFKTRPKVSLGGASRKEEKASLLHRTQEERRKREEERRRLKNAIIIQSFIRGYRDRKQQYSIQRSAFDRCATLSQSGGAFPIANGPNLTLLVRQLLFFYKQNEDSKRLIWLYQNLIKHSSLFVKQLDGSERLTCLFQIKRLMSLCCRLLQNCNDDSLNVALPMRMLEVFSSENTYLPVLQDASYVVSVIEQILHYMIHNGYYRSLYLLINSKLPSSIEYSDLSRVPIAKILLENVLKPLHFTYNSCPEGARQQVFTAFTEEFLAAPFTDQIFHFIIPALADAQTVFPYEPFLNALLLIESRCSRKSGGAPWLFYFVLTVGENYLGALSEEGLLVYLRVLQTFLSQLPVSPASASCHDSASDSEEESEEADKPSSPEDGRLSVSYITEECLKKLDTKQQTNTLLNLVWRDSASEEVFTTMASVCHTLMVQHRMMVPKVRLLYSLAFNARFLRHLWFLISSMSTRMITGSMVPLLQVISRGSPMSFEDSSRIIPLFYLFSSLFSHSLISIHDNEFFGDPIEVVGQRQSSMMPFTLEELIMLSRCLRDACLGIIKLAYPETKPEVREEYITAFQSIGVTTSSEMQQCIQMEQKRWIQLFKVITNLVKMLKSRDTRRNFCPPNHWLSEQEDIKADKVTQLYVPASRHVWRFRRMGRIGPLQSTLDVGLESPPLSVSEERQLAVLTELPFVVPFEERVKIFQRLIYADKQEVQGDGPFLDGINVTIRRNYIYEDAYDKLSPENEPDLKKRIRVHLLNAHGLDEAGIDGGGIFREFLNELLKSGFNPNQGFFKTTNEGLLYPNPAAQMLVGDSFARHYYFLGRMLGKALYENMLVELPFAGFFLSKLLGTSADVDIHHLASLDPEVYKNLLFLKSYEDDVEELGLNFTVVNNDLGEAQVVELKFGGKDIPVTSANRIAYIHLVADYRLNRQIRQHCLAFRQGLANVVSLEWLRMFDQQEIQVLISGAQVPISLEDLKSFTNYSGGYSADHPVIKVFWRVVEGFTDEEKRKLLKFVTSCSRPPLLGFKELYPAFCIHNGGSDLERLPTASTCMNLLKLPEFYDETLLRSKLLYAIECAAGFELS |
| 4810 | sp|P19812|UBR1\_YEAST | MSVADDDLGSLQGHIRRTLRSIHNLPYFRYTRGPTERADMSRALKEFIYRYLYFVISNSGENLPTLFNAHPKQKLSNPELTVFPDSLEDAVDIDKITSQQTIPFYKIDESRIGDVHKHTGRNCGRKFKIGEPLYRCHECGCDDTCVLCIHCFNPKDHVNHHVCTDICTEFTSGICDCGDEEAWNSPLHCKAEEQENDISEDPATNADIKEEDVWNDSVNIALVELVLAEVFDYFIDVFNQNIEPLPTIQKDITIKLREMTQQGKMYERAQFLNDLKYENDYMFDGTTTAKTSPSNSPEASPSLAKIDPENYTVIIYNDEYHNYSQATTALRQGVPDNVHIDLLTSRIDGEGRAMLKCSQDLSSVLGGFFAVQTNGLSATLTSWSEYLHQETCKYIILWITHCLNIPNSSFQTTFRNMMGKTLCSEYLNATECRDMTPVVEKYFSNKFDKNDPYRYIDLSILADGNQIPLGHHKILPESSTHSLSPLINDVETPTSRTYSNTRLQHILYFDNRYWKRLRKDIQNVIIPTLASSNLYKPIFCQQVVEIFNHITRSVAYMDREPQLTAIRECVVQLFTCPTNAKNIFENQSFLDIVWSIIDIFKEFCKVEGGVLIWQRVQKSNLTKSYSISFKQGLYTVETLLSKVHDPNIPLRPKEIISLLTLCKLFNGAWKIKRKEGEHVLHEDQNFISYLEYTTSIYSIIQTAEKVSEKSKDSIDSKLFLNAIRIISSFLGNRSLTYKLIYDSHEVIKFSVSHERVAFMNPLQTMLSFLIEKVSLKDAYEALEDCSDFLKISDFSLRSVVLCSQIDVGFWVRNGMSVLHQASYYKNNPELGSYSRDIHLNQLAILWERDDIPRIIYNILDRWELLDWFTGEVDYQHTVYEDKISFIIQQFIAFIYQILTERQYFKTFSSLKDRRMDQIKNSIIYNLYMKPLSYSKLLRSVPDYLTEDTTEFDEALEEVSVFVEPKGLADNGVFKLKASLYAKVDPLKLLNLENEFESSATIIKSHLAKDKDEIAKVVLIPQVSIKQLDKDALNLGAFTRNTVFAKVVYKLLQVCLDMEDSTFLNELLHLVHGIFRDDELINGKDSIPEAYLSKPICNLLLSIANAKSDVFSESIVRKADYLLEKMIMKKPNELFESLIASFGNQYVNDYKDKKLRQGVNLQETEKERKRRLAKKHQARLLAKFNNQQTKFMKEHESEFDEQDNDVDMVGEKVYESEDFTCALCQDSSSTDFFVIPAYHDHSPIFRPGNIFNPNEFMPMWDGFYNDDEKQAYIDDDVLEALKENGSCGSRKVFVSCNHHIHHNCFKRYVQKKRFSSNAFICPLCQTFSNCTLPLCQTSKANTGLSLDMFLESELSLDTLSRLFKPFTEENYRTINSIFSLMISQCQGFDKAVRKRANFSHKDVSLILSVHWANTISMLEIASRLEKPYSISFFRSREQKYKTLKNILVCIMLFTFVIGKPSMEFEPYPQQPDTVWNQNQLFQYIVRSALFSPVSLRQTVTEALTTFSRQFLRDFLQGLSDAEQVTKLYAKASKIGDVLKVSEQMLFALRTISDVRMEGLDSESIIYDLAYTFLLKSLLPTIRRCLVFIKVLHELVKDSENETLVINGHEVEEELEFEDTAEFVNKALKMITEKESLVDLLTTQESIVSHPYLENIPYEYCGIIKLIDLSKYLNTYVTQSKEIKLREERSQHMKNADNRLDFKICLTCGVKVHLRADRHEMTKHLNKNCFKPFGAFLMPNSSEVCLHLTQPPSNIFISAPYLNSHGEVGRNAMRRGDLTTLNLKRYEHLNRLWINNEIPGYISRVMGDEFRVTILSNGFLFAFNREPRPRRIPPTDEDDEDMEEGEDGFFTEGNDEMDVDDETGQAANLFGVGAEGIAGGGVRDFFQFFENFRNTLQPQGNGDDDAPQNPPPILQFLGPQFDGATIIRNTNPRNLDEDDSDDNDDSDEREIW |
| 4811 | sp|P40362|UTP18\_YEAST | MTMATTAMNVSVPPPDEEEQLLAKFVFGDTTDLQENLAKFNADFIFNEQEMDVEDQEDEGSESDNSEEDEAQNGELDHVNNDQLFFVDDGGNEDSQDKNEDTMDVDDEDDSSSDDYSEDSEEAAWIDSDDEKIKVPILVTNKTKKLRTSYNESKINGVHYINRLRSQFEKIYPRPKWVDDESDSELDDEEDDEEEGSNNVINGDINALTKILSTTYNYKDTLSNSKLLPPKKLDIVRLKDANASHPSHSAIQSLSFHPSKPLLLTGGYDKTLRIYHIDGKTNHLVTSLHLVGSPIQTCTFYTSLSNQNQQNIFTAGRRRYMHSWDLSLENLTHSQTAKIEKFSRLYGHESTQRSFENFKVAHLQNSQTNSVHGIVLLQGNNGWINILHSTSGLWLMGCKIEGVITDFCIDYQPISRGKFRTILIAVNAYGEVWEFDLNKNGHVIRRWKDQGGVGITKIQVGGGTTTTCPALQISKIKQNRWLAVGSESGFVNLYDRNNAMTSSTPTPVAALDQLTTTISNLQFSPDGQILCMASRAVKDALRLVHLPSCSVFSNWPTSGTPLGKVTSVAFSPSGGLLAVGNEQGKVRLWKLNHY |
| 4812 | sp|Q91W86|VPS11\_MOUSE | MAAYLQWRRFVFFEKELVKEPLGNDGAAPGAAPVSGSAASKFLCLPPGITVCDSGRGSLVFGDMEGQIWFLPRSLQLTGFQAYKLRVTHLYQLKQHNILASVGEDEEGINPLVKIWNLEKRDGGNPLCTRIFPAIPGTEPTVVSCLTVHENLNFMAIGFTDGSVTLNKGDITRDRHSKTQILHKGNYPVTGLAFRQAGKTTHLFVVTTENVQSYIVSGKDYPRVELDTHGCGLRCSALSDPSQDLQFIVAGDECVYLYQPDERGPCFAFEGHKLIVHWFRGYLVIVSRDRKVSPKSEFTSRDSQNSDKQILNIYDLCNKFIAYSAGFEDIVDVLAEWGSLYVLTRDGRVHALQEKDTQTKLEMLFKKNLFEMAINLAKSQHLDSDGLAQIFMQYGDHLYSKGNHDGAVQQYIRTIGKLEPSYVIRKFLDAQRIHNLTAYLQTLHRQSLANADHTTLLLNCYTKLKDSSKLEEFIKTKSESEVHFDVETAIKVLRQAGYYSHALYLAENHAHHEWYLKIQLEDIKNYQEALRYIGKLPFEQAESNMKRYGKTLMHHIPEQTTQLLKGLCTDYRPSLEGRGDREALSCRASSEEFIPIFANNPRELKAFLEHMSEVQPDSPQGIYDTLLELRLQNWAHEKDPQAKEKLHAEAISLLKSGRFCDVFDKALVLCQMHDFQDGVLYLYEQGKLFQQIMHYHMQHEQYRQVIAVCERHGEQEPSLWEQALSYFARKEEDCKEYVAAVLRHIENKSLMPPLLVVQTLAHNSTATLSIIRDYLVQKLQKQSQQIAQDELRVRRYREETTRIRQEIQELKASPKIFQKTKCSICNSALELPSVHFLCGHSFHQHCFESYSESDADCPTCLPENRKVMDMIRAQEQKRDLHDQFQHQLKCSNDSFSVIADYFGRGVFNKLTLLTDPPTARLTPSLEAGLQRDLLMHSRRGT |
| 4813 | sp|P20156|VGF\_RAT | MKTFTLPASVLFCFLLLIRGLGAAPPGRSDVYPPPLGSEHNGQVAEDAVSRPKDDSVPEVRAARNSEPQDQGELFQGVDPRALAAVLLQALDRPASPPAVPAGSQQGTPEEAAEALLTESVRSQTHSLPASEIQASAVAPPRPQTQDNDPEADDRSEELEALASLLQELRDFSPSNAKRQQETAAAETETRTHTLTRVNLESPGPERVWRASWGEFQARVPERAPLPPSVPSQFQARMSENVPLPETHQFGEGVSSPKTHLGETLTPLSKAYQSLSAPFPKVRRLEGSFLGGSEAGERLLQQGLAQVEAGRRQAEATRQAAAQEERLADLASDLLLQYLLQGGARQRDLGGRGLQETQQERENEREEEAEQERRGGGEDEVGEEDEEAAEAEAEAEEAERARQNALLFAEEEDGEAGAEDKRSQEEAPGHRRKDAEGTEEGGEEDDDDEEMDPQTIDSLIELSTKLHLPADDVVSIIEEVEEKRKRKKNAPPEPVPPPRAAPAPTHVRSPQPPPPAPARDELPDWNEVLPPWDREEDEVFPPGPYHPFPNYIRPRTLQPPASSRRRHFHHALPPARHHPDLEAQARRAQEEADAEERRLQEQEELENYIEHVLLHRP |
| 4814 | sp|P34547|UBP46\_CAEEL | MGATGSSQLEKEISTTESVNNANEHYYGLVNFGNTCYCNSVIQALFFCRPFREKVLNYKQTLKKSGASKDNLVTCLADLFHSIASQKRRVGTIAPKRFITKLKKENELFDNYMQQDAHEFFNYLINTISETLIQEKIAEREKASRHGTLKKGNVTVNLAPATAGLPRSDEKGTSERNGGITVEGNEFLNKSDTTTWIHEIFQGILTNETRCLSCETVSSKDEDFLDLSIDVEQNTSISHCLRVFSETETLCGDQKYFCETCSSKQEAQKRMRIKKPPQLLALHLKRFKFVEPLNRHTKLSYRVVFPLELRLFNVSDDAEYGDRMYDLVATVVHCGATPNRGHYITLVKSNSFWLVFDDDIVEKLEVSSMEEFSGMSTDANIQMPPGNQSAPQKNSESAYILFYQARDYAADDPNHNHKGKNSTHSV |
| 4815 | sp|Q96GC9|VMP1\_HUMAN | MAENGKNCDQRRVAMNKEHHNGNFTDPSSVNEKKRREREERQNIVLWRQPLITLQYFSLEILVILKEWTSKLWHRQSIVVSFLLLLAVLIATYYVEGVHQQYVQRIEKQFLLYAYWIGLGILSSVGLGTGLHTFLLYLGPHIASVTLAAYECNSVNFPEPPYPDQIICPDEEGTEGTISLWSIISKVRIEACMWGIGTAIGELPPYFMARAARLSGAEPDDEEYQEFEEMLEHAESAQDFASRAKLAVQKLVQKVGFFGILACASIPNPLFDLAGITCGHFLVPFWTFFGATLIGKAIIKMHIQKIFVIITFSKHIVEQMVAFIGAVPGIGPSLQKPFQEYLEAQRQKLHHKSEMGTPQGENWLSWMFEKLVVVMVCYFILSIINSMAQSYAKRIQQRLNSEEKTK |
| 4816 | sp|P26234|VINC\_PIG | MPVFHTRTIESILEPVAQQISHLVIMHEEGEVDGKAIPDLTAPVAAVQAAVSNLVRVGKETVQTTEDQILKRDMPPAFIKVENACTKLVQAAQMLQSDPYSVPARDYLIDGSRGILSGTSDLLLTFDEAEVRKIIRVCKGILEYLTVAEVVETMEDLVTYTKNLGPGMTKMAKMIDERQQELTHQEHRVMLVNSMNTVKELLPVLISAMKIFVTTKNSKNQGIEEALKNRNFTVEKMSAEINEIIRVLQLTSWDEDAWASKKDTEAMKRALASIDSKLNQAKGWLRDPTASPGDAGEQAIRQILDEAGKVGELCAGKERREILGTCKMLGQMTDQVADLRARGQGASPVAMQKAQQVSQGLDVLTAKVENAARKLEAMTNSKQSIAKKIDAAQNWLADPNGGPEGEEQIRGALAEARKIAELCDDPKERDDILRSLGEISALTSKLADLRRQGKGDSPEARALAKQVATALQNLQTKTNRAVANSRPAKAAVHLEGKIEQAQRWIDNPTVDDRGVGQAAIRGLVAEGHRLANVMMGPYRQDLLAKCDRVDQLTAQLADLAARGEGESPQARALASQLQDSLKDLKARMQEAMTQEVSDVFSDTTTPIKLLAVAATAPPDAPNREEVFDERAANFENHSGRLGATAEKAAAVGTANKSTVEGIQASVKTARELTPQVVSAARILLRNPGNQAAYEHFETMKNQWIDNVEKMTGLVDEAIDTKSLLDASEEAIKKDLDKCKVAMANIQPQMLVAGATSIARRANRILLVAKREVENSEDPKFREAVKAASDELSKTISPMVMDAKAVAGNISDPGLQKSFLDSGYRILGAVAKVREAFQPQEPDFPPPPPDLEQLRLTDELAPPKPPLPEGEVPPPRPPPPEEKDEEFPEQKAGEVINQPMMMAARQLHDEARKWSSKPGNPAAKVGIGVVAEADAADAVGFPVPSDMEDDYEPELLLMPSSQPVNQPILAAAQSLHREATKWSSKGNDIIAAAKRMALLMAEMSRLVRGGSGTKRALIQCAKDIAKASDEVTRLAKEVAKQCTDKRIRTNLLQVCERIPTISTQLKILSTVKATMLGRTNISDEESEQATEMLVHNAQNLMQSVKETVREAEAASIKIRTDAGFTLRWVRKTPWYQ |
| 4817 | sp|Q05127|VP35\_EBOZM | MTTRTKGRGHTAATTQNDRMPGPELSGWISEQLMTGRIPVSDIFCDIENNPGLCYASQMQQTKPNPKTRNSQTQTDPICNHSFEEVVQTLASLATVVQQQTIASESLEQRITSLENGLKPVYDMAKTISSLNRVCAEMVAKYDLLVMTTGRATATAAATEAYWAEHGQPPPGPSLYEESAIRGKIESRDETVPQSVREAFNNLNSTTSLTEENFGKPDISAKDLRNIMYDHLPGFGTAFHQLVQVICKLGKDSNSLDIIHAEFQASLAEGDSPQCALIQITKRVPIFQDAAPPVIHIRSRGDIPRACQKSLRPVPPSPKIDRGWVCVFQLQDGKTLGLKI |
| 4818 | sp|Q26366|VG\_DROME | MAVSCPEVMYGAYYPYLYGRAGTSRSFYQYERFNQDLYSSSGVNLAASSSASGSSHSPCSPILPPSVSANAAAAVAAAAHNSAAAAVAVAANQASSSGGIGGGGLGGLGGLGGGPASGLLGSNVVPGSSSVGSVGLGMSPVLSGAAGHSLHSSHRTHAHSLAHAHTHPHSHTHTHTHQTKEEDLIVPRSEAEARLVGSQQHQHHNESSCSSGPDSPRHAHSHSHPLHGGGGATGGPSSAGGTGSGGGDGGGTGAIPKNLPALETPMGSGGGGLAGSGQGQAQYLSASCVVFTNYSGDTASQVDEHFSRALNYNNKDSKESSSPMSNRNFPPSFWNSNYVHPIPAPTHHQVSDLYGTATDTGYATDPWVPHAAHYGSYAHAAHAHAAHAHAYHHNMAQYGSLLRLPQQYASHGSRLHHDQQTAHALEYSSYPTMAGLEAQVAQVQESSKDLYWF |
| 4819 | sp|Q86XT2|VP37D\_HUMAN | MYRARAARAGPEPGSPGRFGILSTGQLRDLLQDEPKLDRIVRLSRKFQGLQLEREACLASNYALAKENLALRPRLEMGRAALAIKYQELREVAENCADKLQRLEESMHRWSPHCALGWLQAELEEAEQEAEEQMEQLLLGEQSLEAFLPAFQRGRALAHLRRTQAEKLQELLRRRERSAQPAPTSAADPPKSFPAAAVLPTGAARGPPAVPRSLPPLDSRPVPPLKGSPGCPLGPAPLLSPRPSQPEPPHR |
| 4820 | sp|Q9SJT7|VHAA2\_ARATH | MAESHGGGGGCCPPMDLMRSEPMQLVQVIVPMESAHLTVSYLGDLGLVQFKDLNSEKSPFQRTYAAQIKRCGEMARKIRFFKEQMSKAGVTPKETLDRENDIDLDDVEVKLEELEAELVEINANNDKLQRSYNELVEYKLVLEKAGEFFASAHRSATAQQSEIETEQVGEDLLEAPLLQEEKSVDPTKQVKLGFLTGLVPREKSMVFERILFRATRGNIFIRQSVIEESVVDPNSGEKAEKNVFVVFYSGERAKSKILKICEAFGANRYPFSEDLGKQAQMMTEVSGRLSELKTTIGAGLDQRNILLETIGDKFEQWNLKIRKEKAIYHTLNMLSLDVTKKCLVGEGWSPVFAATEIQDALHRAAVDSNSQVGSIFQVLRTKEMPPTFFRTNKFTTAFQEIVDAYGVAKYQEANPSVFTIVTFPFLFAVMFGDWGHGICLLLATMYLILREKKLSSQKLGDIMEMAFGGRYVIFMMSLFSIYTGLIYNEFFSIPYPLFASSAYDCRDVSCSEATTIGLIKTRDTYPFGVDPVWHGTRSELPFLNSLKMKMSILIGVAQMNLGIIMSFFNAKFFKSAVNIWFQFVPQMIFLNCLFGYLSVLIIIKWCTGSQADLYHVMIYMFLSPMDDLGENQLFPNQKIVQLTFLFLALVSVPWMLLPKPFILKKQHEARHQGLSYAQLDETDESLQVETNGGGHGHEEFEFSEIFVHQLIHTIEFVLGAVSNTASYLRLWALSLAHSELSSVFYEKVLLMAWGFNNVFIWIVGILVFIFATVGVLLVMETLSAFLHALRLHWVEYQNKFYEGDGYKFAPFTFTLVGNEDE |
| 4821 | sp|P01283|VIP\_RAT | MESRSKPQFLAILTLFSVLFSQSLAWPLYGPPSSVRLDDRLQFEGAGDPDQVSLKADSDILQNALAENDTPYYDVSRNARHADGVFTSDYSRLLGQISAKKYLESLIGKRISSSISEDPVPVKRHSDAVFTDNYTRLRKQMAVKKYLNSILNGKRSSEGDSPDFLEELEK |
| 4822 | sp|Q9LZI2|UXS2\_ARATH | MASELINRRHETDQPTADAYYPKPIKPWFTVTRPMRYMLREQRLIFVLVGIAIATLVFTIFPRSTQSTPYSDPFSGYGIRPDESYVPAIQAQRKPSLEYLNRIGATGGKIPLGLKRKGLRVVVTGGAGFVGSHLVDRLMARGDTVIVVDNFFTGRKENVMHHFSNPNFEMIRHDVVEPILLEVDQIYHLACPASPVHYKFNPVKTIKTNVVGTLNMLGLAKRVGARFLLTSTSEVYGDPLQHPQVETYWGNVNPIGVRSCYDEGKRTAETLTMDYHRGANVEVRIARIFNTYGPRMCIDDGRVVSNFVAQALRKEPLTVYGDGKQTRSFQFVSDLVEGLMRLMEGEHVGPFNLGNPGEFTMLELAKVVQETIDPNANIEFRPNTEDDPHKRKPDITKAKELLGWEPKVSLRQGLPLMVKDFRQRVFGDQKEGSSAAATTTKTTSA |
| 4823 | sp|P12504|VIF\_HV1N5 | MENRWQVMIVWQVDRMRINTWKRLVKHHMYISRKAKDWFYRHHYESTNPKISSEVHIPLGDAKLVITTYWGLHTGERDWHLGQGVSIEWRKKRYSTQVDPDLADQLIHLHYFDCFSESAIRNTILGRIVSPRCEYQAGHNKVGSLQYLALAALIKPKQIKPPLPSVRKLTEDRWNKPQKTKGHRGSHTMNGH |
| 4824 | sp|Q9SM43|VDE\_SPIOL | MALVARSICVSYDEIAGICNNVSHRNFKKWVQWKNPFLFQDDARRNIRFNDRKLSCTKFIGASEKLQHSKSPKSGLISCGWEVNSSKVVSNAVIPKKWNLLKLKVVEVTAIVACTFFVMSSAQAVDALKTCTCLLKECRIELAKCIANPSCAANVACLQTCNNRPDETECQIKCGDLFANKVVDEFNECAVSRKKCVPQKSDVGEFPVPDPSVLVKSFNMADFNGKWFISSGLNPTFDAFDCQLHEFHLEDGKLVGNLSWRIKTPDGGFFTRTAVQKFAQDPSQPGMLYNHDNAYLHYQDDWYILSSKIENQPDDYVFVYYRGRNDAWDGYGGAFLYTRSATVPENIVPELNRAAQSVGKDFNKFIRTDNTCGPEPPLVERLEKTVEEGERTIIKEVEQLEGEIEGDLEKVGKTEMTLFQRLLEGFQELQKDEEYFLKELNKEERELLEDLKMEAGEVEKLFGRALPIRKLR |
| 4825 | sp|P37288|V1AR\_HUMAN | MRLSAGPDAGPSGNSSPWWPLATGAGNTSREAEALGEGNGPPRDVRNEELAKLEIAVLAVTFAVAVLGNSSVLLALHRTPRKTSRMHLFIRHLSLADLAVAFFQVLPQMCWDITYRFRGPDWLCRVVKHLQVFGMFASAYMLVVMTADRYIAVCHPLKTLQQPARRSRLMIAAAWVLSFVLSTPQYFVFSMIEVNNVTKARDCWATFIQPWGSRAYVTWMTGGIFVAPVVILGTCYGFICYNIWCNVRGKTASRQSKGAEQAGVAFQKGFLLAPCVSSVKSISRAKIRTVKMTFVIVTAYIVCWAPFFIIQMWSVWDPMSVWTESENPTITITALLGSLNSCCNPWIYMFFSGHLLQDCVQSFPCCQNMKEKFNKEDTDSMSRRQTFYSNNRSPTNSTGMWKDSPKSSKSIKFIPVST |
| 4826 | sp|Q92889|XPF\_HUMAN | MESGQPARRIAMAPLLEYERQLVLELLDTDGLVVCARGLGADRLLYHFLQLHCHPACLVLVLNTQPAEEEYFINQLKIEGVEHLPRRVTNEITSNSRYEVYTQGGVIFATSRILVVDFLTDRIPSDLITGILVYRAHRIIESCQEAFILRLFRQKNKRGFIKAFTDNAVAFDTGFCHVERVMRNLFVRKLYLWPRFHVAVNSFLEQHKPEVVEIHVSMTPTMLAIQTAILDILNACLKELKCHNPSLEVEDLSLENAIGKPFDKTIRHYLDPLWHQLGAKTKSLVQDLKILRTLLQYLSQYDCVTFLNLLESLRATEKAFGQNSGWLFLDSSTSMFINARARVYHLPDAKMSKKEKISEKMEIKEGEETKKELVLESNPKWEALTEVLKEIEAENKESEALGGPGQVLICASDDRTCSQLRDYITLGAEAFLLRLYRKTFEKDSKAEEVWMKFRKEDSSKRIRKSHKRPKDPQNKERASTKERTLKKKKRKLTLTQMVGKPEELEEEGDVEEGYRREISSSPESCPEEIKHEEFDVNLSSDAAFGILKEPLTIIHPLLGCSDPYALTRVLHEVEPRYVVLYDAELTFVRQLEIYRASRPGKPLRVYFLIYGGSTEEQRYLTALRKEKEAFEKLIREKASMVVPEEREGRDETNLDLVRGTASADVSTDTRKAGGQEQNGTQQSIVVDMREFRSELPSLIHRRGIDIEPVTLEVGDYILTPEMCVERKSISDLIGSLNNGRLYSQCISMSRYYKRPVLLIEFDPSKPFSLTSRGALFQEISSNDISSKLTLLTLHFPRLRILWCPSPHATAELFEELKQSKPQPDAATALAITADSETLPESEKYNPGPQDFLLKMPGVNAKNCRSLMHHVKNIAELAALSQDELTSILGNAANAKQLYDFIHTSFAEVVSKGKGKK |
| 4827 | sp|Q7X8C5|WAKLB\_ARATH | MKTETHNRQCIPLAISVLSLFINGVSSARQPPDRCNRVCGEISIPFPFGIGGKDCYLNPWYEVVCNSTNSVPFLSRINRELVNISLNGVVHIKAPVTSSGCSTGTSQPLTPPPLNVAGQGSPYFLTDKNLLVAVGCKFKAVMAGITSQITSCESSCNERNSSSQEGRNKICNGYKCCQTRIPEGQPQVISVDIEIPQGNNTTGEGGCRVAFLTSDKYSSLNVTEPEKFHGHGYAAVELGWFFDTSDSRDTQPISCKNASDTTPYTSDTRCSCSYGYFSGFSYRDCYCNSPGYKGNPFLPGGCVDVDECKLDIGRNQCKDQSCVNLPGWFDCQPKKPEQLKRVIQGVLIGSALLLFAFGIFGLYKFVQKRRKLIRMRKFFRRNGGMLLKQQLARKEGNVEMSRIFSSHELEKATDNFNKNRVLGQGGQGTVYKGMLVDGRIVAVKRSKAVDEDRVEEFINEVVVLAQINHRNIVKLLGCCLETEVPVLVYEFVPNGDLCKRLHDESDDYTMTWEVRLHIAIEIAGALSYLHSAASFPIYHRDIKTTNILLDERNRAKVSDFGTSRSVTIDQTHLTTQVAGTFGYVDPEYFQSSKFTEKSDVYSFGVVLVELLTGEKPSSRVRSEENRGLAAHFVEAVKENRVLDIVDDRIKDECNMDQVMSVANLARRCLNRKGKKRPNMREVSIELEMIRSSHYDSGIHIEDDDEEDDQAMELNFNDTWEVGATAPASMFNNASPTSDAEPLVPLRTW |
| 4828 | sp|P36217|XYN2\_HYPJR | MVSFTSLLAGVAAISGVLAAPAAEVESVAVEKRQTIQPGTGYNNGYFYSYWNDGHGGVTYTNGPGGQFSVNWSNSGNFVGGKGWQPGTKNKVINFSGSYNPNGNSYLSVYGWSRNPLIEYYIVENFGTYNPSTGATKLGEVTSDGSVYDIYRTQRVNQPSIIGTATFYQYWSVRRNHRSSGSVNTANHFNAWAQQGLTLGTMDYQIVAVEGYFSSGSASITVS |
| 4829 | sp|Q9Y6W5|WASF2\_HUMAN | MPLVTRNIEPRHLCRQTLPSVRSELECVTNITLANVIRQLGSLSKYAEDIFGELFTQANTFASRVSSLAERVDRLQVKVTQLDPKEEEVSLQGINTRKAFRSSTIQDQKLFDRNSLPVPVLETYNTCDTPPPLNNLTPYRDDGKEALKFYTDPSYFFDLWKEKMLQDTKDIMKEKRKHRKEKKDNPNRGNVNPRKIKTRKEEWEKMKMGQEFVESKEKLGTSGYPPTLVYQNGSIGCVENVDASSYPPPPQSDSASSPSPSFSEDNLPPPPAEFSYPVDNQRGSGLAGPKRSSVVSPSHPPPAPPLGSPPGPKPGFAPPPAPPPPPPPMIGIPPPPPPVGFGSPGTPPPPSPPSFPPHPDFAAPPPPPPPPAADYPTLPPPPLSQPTGGAPPPPPPPPPPGPPPPPFTGADGQPAIPPPLSDTTKPKSSLPAVSDARSDLLSAIRQGFQLRRVEEQREQEKRDVVGNDVATILSRRIAVEYSDSEDDSSEFDEDDWSD |
| 4830 | sp|Q9C0J8|WDR33\_HUMAN | MATEIGSPPRFFHMPRFQHQAPRQLFYKRPDFAQQQAMQQLTFDGKRMRKAVNRKTIDYNPSVIKYLENRIWQRDQRDMRAIQPDAGYYNDLVPPIGMLNNPMNAVTTKFVRTSTNKVKCPVFVVRWTPEGRRLVTGASSGEFTLWNGLTFNFETILQAHDSPVRAMTWSHNDMWMLTADHGGYVKYWQSNMNNVKMFQAHKEAIREASFSPTDNKFATCSDDGTVRIWDFLRCHEERILRGHGADVKCVDWHPTKGLVVSGSKDSQQPIKFWDPKTGQSLATLHAHKNTVMEVKLNLNGNWLLTASRDHLCKLFDIRNLKEELQVFRGHKKEATAVAWHPVHEGLFASGGSDGSLLFWHVGVEKEVGGMEMAHEGMIWSLAWHPLGHILCSGSNDHTSKFWTRNRPGDKMRDRYNLNLLPGMSEDGVEYDDLEPNSLAVIPGMGIPEQLKLAMEQEQMGKDESNEIEMTIPGLDWGMEEVMQKDQKKVPQKKVPYAKPIPAQFQQAWMQNKVPIPAPNEVLNDRKEDIKLEEKKKTQAEIEQEMATLQYTNPQLLEQLKIERLAQKQVEQIQPPPSSGTPLLGPQPFPGQGPMSQIPQGFQQPHPSQQMPMNMAQMGPPGPQGQFRPPGPQGQMGPQGPPLHQGGGGPQGFMGPQGPQGPPQGLPRPQDMHGPQGMQRHPGPHGPLGPQGPPGPQGSSGPQGHMGPQGPPGPQGHIGPQGPPGPQGHLGPQGPPGTQGMQGPPGPRGMQGPPHPHGIQGGPGSQGIQGPVSQGPLMGLNPRGMQGPPGPRENQGPAPQGMIMGHPPQEMRGPHPPGGLLGHGPQEMRGPQEIRGMQGPPPQGSMLGPPQELRGPPGSQSQQGPPQGSLGPPPQGGMQGPPGPQGQQNPARGPHPSQGPIPFQQQKTPLLGDGPRAPFNQEGQSTGPPPLIPGLGQQGAQGRIPPLNPGQGPGPNKGDSRGPPNHHMGPMSERRHEQSGGPEHGPERGPFRGGQDCRGPPDRRGPHPDFPDDFSRPDDFHPDKRFGHRLREFEGRGGPLPQEEKWRRGGPGPPFPPDHREFSEGDGRGAARGPPGAWEGRRPGDERFPRDPEDPRFRGRREESFRRGAPPRHEGRAPPRGRDGFPGPEDFGPEENFDASEEAARGRDLRGRGRGTPRGGRKGLLPTPDEFPRFEGGRKPDSWDGNREPGPGHEHFRDTPRPDHPPHDGHSPASRERSSSLQGMDMASLPPRKRPWHDGPGTSEHREMEAPGGPSEDRGGKGRGGPGPAQRVPKSGRSSSLDGEHHDGYHRDEPFGGPPGSGTPSRGGRSGSNWGRGSNMNSGPPRRGASRGGGRGR |
| 4831 | sp|O00401|WASL\_HUMAN | MSSVQQQPPPPRRVTNVGSLLLTPQENESLFTFLGKKCVTMSSAVVQLYAADRNCMWSKKCSGVACLVKDNPQRSYFLRIFDIKDGKLLWEQELYNNFVYNSPRGYFHTFAGDTCQVALNFANEEEAKKFRKAVTDLLGRRQRKSEKRRDPPNGPNLPMATVDIKNPEITTNRFYGPQVNNISHTKEKKKGKAKKKRLTKADIGTPSNFQHIGHVGWDPNTGFDLNNLDPELKNLFDMCGISEAQLKDRETSKVIYDFIEKTGGVEAVKNELRRQAPPPPPPSRGGPPPPPPPPHNSGPPPPPARGRGAPPPPPSRAPTAAPPPPPPSRPSVAVPPPPPNRMYPPPPPALPSSAPSGPPPPPPSVLGVGPVAPPPPPPPPPPPGPPPPPGLPSDGDHQVPTTAGNKAALLDQIREGAQLKKVEQNSRPVSCSGRDALLDQIRQGIQLKSVADGQESTPPTPAPTSGIVGALMEVMQKRSKAIHSSDEDEDEDDEEDFEDDDEWED |
| 4832 | sp|O44342|WBL\_DROME | MMHILVTLLLVAIHSIPTTWAVTCTGCVDLDELSFEKTVERFPYSVVKFDIAYPYGEKHEAFTAFSKSAHKATKDLLIATVGVKDYGELENKALGDRYKVDDKNFPSIFLFKGNADEYVQLPSHVDVTLDNLKAFVSANTPLYIGRDGCIKEFNEVLKNYANIPDAEQLKLIEKLQAKQEQLTDPEQQQNARAYLIYMRKIHEVGYDFLEEETKRLLRLKAGKVTEAKKEELLRKLNILEVFRVHKVTKTAPEKEEL |
| 4833 | sp|O74237|XYL1\_CANTE | MSASIPDIKLSSGHLMPSIGFGCWKLANATAGEQVYQAIKAGYRLFDGAEDYGNEKEVGDGVKRAIDEGLVKREEIFLTSKLWNNYHDPKNVETALNKTLADLKVDYVDLFLIHFPIAFKFVPIEEKYPPGFYCGDGNNFVYEDVPILETWKALEKLVAAGKIKSIGVSNFPGALLLDLLRGATIKPAVLQVEHHPYLQQPKLIEFAQKAGVTITAYSSFGPQSFVEMNQGRALNTPTLFAHDTIKAIAAKYNKTPAEVLLRWAAQRGIAVIPKSNLPERLVQNRSFNTFDLTKEDFEEIAKLDIGLRFNDPWDWDNIPIFV |
| 4834 | sp|Q9P202|WHRN\_HUMAN | MNAPLDGLSVSSSSTGSLGSAAGAGGGGGAGLRLLSANVRQLHQALTALLSEAEREQFTHCLNAYHARRNVFDLVRTLRVLLDSPVKRRLLPMLRLVIPRSDQLLFDQYTAEGLYLPATTPYRQPAWGGPDSAGPGEVRLVSLRRAKAHEGLGFSIRGGSEHGVGIYVSLVEPGSLAEKEGLRVGDQILRVNDKSLARVTHAEAVKALKGSKKLVLSVYSAGRIPGGYVTNHIYTWVDPQGRSISPPSGLPQPHGGALRQQEGDRRSTLHLLQGGDEKKVNLVLGDGRSLGLTIRGGAEYGLGIYITGVDPGSEAEGSGLKVGDQILEVNGRSFLNILHDEAVRLLKSSRHLILTVKDVGRLPHARTTVDETKWIASSRIRETMANSAGFLGDLTTEGINKPGFYKGPAGSQVTLSSLGNQTRVLLEEQARHLLNEQEHATMAYYLDEYRGGSVSVEALVMALFKLLNTHAKFSLLSEVRGTISPQDLERFDHLVLRREIESMKARQPPGPGAGDTYSMVSYSDTGSSTGSHGTSTTVSSARNTLDLEETGEAVQGNINALPDVSVDDVRSTSQGLSSFKPLPRPPPLAQGNDLPLGQPRKLGREDLQPPSSMPSCSGTVFSAPQNRSPPAGTAPTPGTSSAQDLPSSPIYASVSPANPSSKRPLDAHLALVNQHPIGPFPRVQSPPHLKSPSAEATVAGGCLLPPSPSGHPDQTGTNQHFVMVEVHRPDSEPDVNEVRALPQTRTASTLSQLSDSGQTLSEDSGVDAGEAEASAPGRGRQSVSTKSRSSKELPRNERPTDGANKPPGLLEPTSTLVRVKKSAATLGIAIEGGANTRQPLPRIVTIQRGGSAHNCGQLKVGHVILEVNGLTLRGKEHREAARIIAEAFKTKDRDYIDFLVTEFNVML |
| 4835 | sp|P34761|WHI3\_YEAST | MQSSVYFDQTGSFASSSDNVVSSTTNTHNISPSHRSSLNLNTTSHPHEASGRGSASGELYLNDTNSPLAISSMLNTLALGSMPQDIASSNISNHDNNIKGSYSLKLSNVAKDITLRECYAIFALAEGVKSIELQKKNSSSSITSASLEDENDIFIIARFELLNLAINYAVILNSKNELFGPSFPNKTTVEIIDDTTKNLVSFPSSAIFNDTSRLNKSNSGMKRPSLLSQRSRFSFSDPFSNDSPLSQQQSQQQQQQPQQPQQHSTQKHSPQQCNQQQVNSSIPLSSQGQVIGLHSNHSHQDLSVESTIQTSDIGKSFLLRDNTEINEKIWGTSGIPSSINGYMSTPQPSTPTLEWGNTSASQHGSSFFLPSAASTAIAPTNSNTSANANASSNNGASNNGANQALSASSQQPMMQIGNTINTSLTSSNSLPPYGLMSSQSQHISNMVNTSDMNITPQKQNRFMQQPQPEHMYPVNQSNTPQKVPPARLSSSRNSHKNNSTTSLSSNITGSASISQADLSLLARIPPPANPADQNPPCNTLYVGNLPSDATEQELRQLFSGQEGFRRLSFRNKNTTSNGHSHGPMCFVEFDDVSFATRALAELYGRQLPRSTVSSKGGIRLSFSKNPLGVRGPNSRRGGSGNPNPNVNMLSSYNSNVGHIKN |
| 4836 | sp|Q12193|YB12B\_YEAST | MESQQLSNYPHISHGSACASVTSKEVHTNQDPLDVSASKIQEYDKASTKANSQQTTTPASSAVPENPHHASPQPASVPPPQNGPYPQQCMMTQNQANPSGWSFYGHPSMIPYTPYQMSPMYFPPGPQSQFPQYPSSVGTPLSTPSPESGNTFTDSSSADSDMTSTKKYVRPPPMLTSPNDFPNWVKTYIKFLQNSNLGGIIPTVNGKPVRPITDDELTFLYNAFQIFAPSQFLPTWVKDILSVDYTDIMKILSKSIEKMQSDTQEANDIVTLANLQYNGSTPADAFETKVTNIIDRLNNNGIHINNKVACQLIMRGLSGEYKFLRYTRHRHLNMTVAELFLDIHAIYEEQQGSRNSKPNYRRNPSDEKNDSRSYTNTTKPKVIARNPQKTNNSKSKTARAHNVSTSNNSPSTDNDSISKSTTEPIQLNNKHDLHLGQKLTESTVNHTNHSDDELPGHLLLDSGASRTLIRSAHHIHSASSNPDINVVDAQKRNIPINAIGDLQFHFQDNTKTSLKVLHTPNIAYDLLSLNELAAVDITACFTKNVLERSDGTVLAPIVKYGDFYWVSKKYLLPSNISVPTINNVHTSESTRKYPYPFIHRMLAHANAQTIRYSLKNNTITYFNESDVDWSSAIDYQCPDCLIGKSTKHRHIKGSRLKYQNSYEPFQYLHTDIFGPVHNLPKSAPSYFISFTDETTKFRWVYPLHDRREDSILDVFTTILAFIKNQFQASVLVIQMDRGSEYTNRTLHKFLEKNGITPCYTTTADSRAHGVAERLNRTLLDDCRTQLQCSGLPNHLWFSAIEFSTIVRNSLASPKSKKSARQHAGLAGLDISTLLPFGQPVIVNDHNPNSKIHPRGIPGYALHPSRNSYGYIIYLPSLKKTVDTTNYVILQGKDSRLDQFNYDALTFDEDLNRLTASYQSFIASNEIQQSNDLNIESDHDFQSDIELYPEQPRNVLSKAVSPTDSTPPSTHTEDSKRVSKTNIRAPREVDPNISESNILPSKKRSSTPQISDIESTDSGGMHRLDVPLLAPMSQSNTHESSYASKSKDFRHSDSYSDNETNHTNVPISSTGGTNNKTVPQTSEQETEKRIIHRFTSDRILPSSESNSLHHVVPIKTSDTCFKENTEESIIADLPLPDLPPEPPTELSDSFKELPPINSRQTNSSLGGIGDSNAYTTINSKKRSLEDNETEIKVSRDTWNTKNMRSLEPPRSKKRIHLIAAVKAVKSIKPIRTTLRYDEAITYNKDIKEKEKYIEAYHKEVNQLLKMKTWDTDKYYDRKEIDPKRVINSMFIFNRKRDGTHKARFVARGDIQHPDTYDSGMQSNTVHHYALMTSLSLALDNNYYITQLDISSAYLYADIKEELYIRPPPHLGMNDKLIRLKKSLYGLKQSGANWYETIKSYLIKQCGMEEVRGWSCVFKNSQVTICLFVDDMILFSKDLNSNKRIIAKLKMQYDTKIINLGESDDEIQHDILGLEIKYQRGKYMKLGMENSLTEKIPKLNVPLNPNGRKLGAPGQPGLYINQQELELEEDDYKMKVHEMQKLIGLASYVGYKFRFDLLYYINTLAQHILFPSKQVLDMTYELIQFIWNTRDKQLIWHKSKPVKPTNKLVVISDASYGNQPYYKSQIGNIYLLNGKVIGGKSTKASLTCTSTTEAEIHAISESVPLLNNLSYLIQELDKKPITKGLLTDSKSTISIIISNNEEKFRNRFFGTKAMRLRDEVSGNHLHVCYIETKKNIADVMTKPLPIKTFKLLTNKWIH |
| 4837 | sp|P48559|YPT11\_YEAST | MSQRKRYSLNVVTSPSIPSPTPSAPIRTNESNWEAASPASAASSFLPNVHHGGTVLNPGLGIMRSPSLNKSGAFGRSGSSGSSTVIEPSNIKLLLIGDANVGKTAMILSYCRELLTRAEMSRSARLRHQQQQQHKDLGLKKTVVNHRLSMKEKRKRYSSNDFEKEFKDINHFADETSDFGNPNIGDDNNHEMADPNEIVIETRSTIGIDIKTNLVNIDNRFFNVILWDTAGQERYQNAIIPSLYKKTNAVILTYDITNAKSFQSCMERWIVQALENFSSQDLLKARFFLVGNKIDLYKERQVTHYDVVQMVQEMQLKHGIKISGNFEVSCKWVNVVERTMNMIILDLVENGCFENNDPCVSITTSDDVQGHEQEFHDTVEEPFNFTRQRQHQLEKNNTVDITKPNDDIANNQSICCV |
| 4838 | sp|Q9ULM3|YETS2\_HUMAN | MSGIKRTIKETDPDYEDVSVALPNKRHKAIENSARDAAVQKIETIIKEQFALEMKNKEHEIEVIDQRLIEARRMMDKLRACIVANYYASAGLLKVSEGSKTCDTMVFNHPAIKKFLESPSRSSSPANQRAETPSANHSESDSLSQHNDFLSDKDNNSNMDIEERLSNNMEQRPSRNTGRDTSRITGSHKTEQRNADLTDETSRLFVKKTIVVGNVSKYIPPDKREENDQSTHKWMVYVRGSRREPSINHFVKKVWFFLHPSYKPNDLVEVREPPFHLTRRGWGEFPVRVQVHFKDSQNKRIDIIHNLKLDRTYTGLQTLGAETVVDVELHRHSLGEDCIYPQSSESDISDAPPSLPLTIPAPVKASSPIKQSHEPVPDTSVEKGFPASTEAERHTPFYALPSSLERTPTKMTTSQKVTFCSHGNSAFQPIASSCKIVPQSQVPNPESPGKSFQPITMSCKIVSGSPISTPSPSPLPRTPTSTPVHVKQGTAGSVINNPYVIMDKQPGQVIGATTPSTGSPTNKISTASQVSQGTGSPVPKIHGSSFVTSTVKQEDSLFASMPPLCPIGSHPKVQSPKPITGGLGAFTKVIIKQEPGEAPHVPATGAASQSPLPQYVTVKGGHMIAVSPQKQVITPGEGIAQSAKVQPSKVVGVPVGSALPSTVKQAVAISGGQILVAKASSSVSKAVGPKQVVTQGVAKAIVSGGGGTIVAQPVQTLTKAQVTAAGPQKSGSQGSVMATLQLPATNLANLANLPPGTKLYLTTNSKNPSGKGKLLLIPQGAILRATNNANLQSGSAASGGSGAGGGGGGGGGGGSGSGGGGSTGGGGGTAGGGTQSTAGPGGISQHLTYTSYILKQTPQGTFLVGQPSPQTSGKQLTTGSVVQGTLGVSTSSAQGQQTLKVISGQKTTLFTQAAHGGQASLMKISDSTLKTVPATSQLSKPGTTMLRVAGGVITTATSPAVALSANGPAQQSEGMAPVSSSTVSSVTKTSGQQQVCVSQATVGTCKAATPTVVSATSLVPTPNPISGKATVSGLLKIHSSQSSPQQAVLTIPSQLKPLSVNTSGGVQTILMPVNKVVQSFSTSKPPAILPVAAPTPVVPSSAPAAVAKVKTEPETPGPSCLSQEGQTAVKTEESSELGNYVIKIDHLETIQQLLTAVVKKIPLITAKSEDASCFSAKSVEQYYGWNIGKRRAAEWQRAMTMRKVLQEILEKNPRFHHLTPLKTKHIAHWCRCHGYTPPDPESLRNDGDSIEDVLTQIDSEPECPSSFSSADNLCRKLEDLQQFQKREPENEEEVDILSLSEPVKINIKKEQEEKQEEVKFYLPPTPGSEFIGDVTQKIGITLQPVALHRNVYASVVEDMILKATEQLVNDILRQALAVGYQTASHNRIPKEITVSNIHQAICNIPFLDFLTNKHMGILNEDQ |
| 4839 | sp|Q12337|YG21B\_YEAST | MESQQLHQNPHSLHGSAYASVTSKEVPSNQDPLAVSASNLPEFDRDSTKVNSQQETTPGTSAVPENHHHVSPQPASVPPPQNGQYQQHGMMTPNKAMASNWAHYQQPSMMTCSHYQTSPAYYQPDPHYPLPQYIPPLSTSSPDPIDLKNQHSEIPQAKTKVGNNVLPPHTLTSEENFSTWVKFYIRFLKNSNLGDIIPNDQGEIKRQMTYEEHAYIYNTFQAFAPFHLLPTWVKQILEINYADILTVLCKSVSKMQTNNQELKDWIALANLEYDGSTSADTFEITVSTIIQRLKENNINVSDRLACQLILKGLSGDFKYLRNQYRTKTNMKLSQLFAEIQLIYDENKIMNLNKPSQYKQHSEYKNVSRTSPNTTNTKVTTRNYHRTNSSKPRAAKAHNIATSSKFSRVNNDHINESTVSSQYLSDDDELSLGQQQKESKPTHTIDSNDELPDHLLIDSGASQTLVRSAHYLHHATPNSEINIVDAQKQDIPINAIGNLHFNFQNGTKTSIKALHTPNIAYDLLSLSELANQNITACFTRNTLERSDGTVLAPIVKHGDFYWLSKKYLIPSHISKLTINNVNKSKSVNKYPYPLIHRMLGHANFRSIQKSLKKNAVTYLKESDIEWSNASTYQCPDCLIGKSTKHRHVKGSRLKYQESYEPFQYLHTDIFGPVHHLPKSAPSYFISFTDEKTRFQWVYPLHDRREESILNVFTSILAFIKNQFNARVLVIQMDRGSEYTNKTLHKFFTNRGITACYTTTADSRAHGVAERLNRTLLNDCRTLLHCSGLPNHLWFSAVEFSTIIRNSLVSPKKRKSARQHAGLAGLDITTILPFGQPVIVNNHNPDSKIHPRGIPGYALHPSRNSYGYIIYLPSLKKTVDTTNYVILQNKQTKLDQFDYDTLTFDDDLNRLTAHNQSFIEQNETEQSYDQNTESDHDYQSEIEINSDPLVNDFSSQSINPLQLDKEPVQKVRAPKEVDADISEYNILPSTIRSRTPHIINKESTEMGGTVESDTTSPRHSSTFTARNQNRPGSTNEMIDLTSQDRVNYGLENIKTTRLGGTEEPYIQRNSDTNIKYRTTNSTPSIDDRSSNSESTTPIISIETKAVCDNTPSIDTDPPEYRSSDHATPNIMPDKSSKNVTADSILDDLPLPDLTHKSPTDTSDVSKDIPHIHSRQTNSSLGGMDDSNVLTTTKSKKRSLEDNETEIEVSRDTWNNKNMRSLEPPRSKKRINLIAAIKGVKSIKPVRTTLRYDEAITYNKDNKEKDRYVEAYHKEISQLLKMNTWDTNKYYDRNDIDPKKVINSMFIFNKKRDGTHKARFVARGDIQHPDTYDSDMQSNTVHHYALMTSLSIALDNDYYITQLDISSAYLYADIKEELYIRPPPHLGLNDKLLRLRKSLYGLKQSGANWYETIKSYLINCCDMQEVRGWSCVFKNSQVTICLFVDDMILFSKDLNANKKIITTLKKQYDTKIINLGESDNEIQYDILGLEIKYQRSKYMKLGMEKSLTEKLPKLNVPLNPKGKKLRAPGQPGHYIDQDELEIDEDEYKEKVHEMQKLIGLASYVGYKFRFDLLYYINTLAQHILFPSRQVLDMTYELIQFMWDTRDKQLIWHKNKPTKPDNKLVAISDASYGNQPYYKSQIGNIFLLNGKVIGGKSTKASLTCTSTTEAEIHAVSEAIPLLNNLSHLVQELNKKPIIKGLLTDSRSTISIIKSTNEEKFRNRFFGTKAMRLRDEVSGNNLYVYYIETKKNIADVMTKPLPIKTFKLLTNKWIH |
| 4840 | sp|P25992|YEMA\_DROME | MSKGGEHKRVTLTSIIQGDAGFSRFGSNILEPDAASAAPDNSSKPTTKTAKCIRIKLDLFETDSNKYPEFNYSRLLYLEKKKTKKLKQVSTTNGSASTDPFADNDDDVARIVKELEAKYGNSYATGRGKSKKDDYRDIGMGYDESDSFIDNTEAYDEIIPEEAETLEGGFYINCGALEFKNLTKKSYTTRTDAIIKMPERSRKRMVSSSSESSSSSSGDDDENDDGNNEEDDESDSEDDSEENDESDSEDDSESESLEDEDSAATAKSSSKYKDNHQAKRAKVIVTGKSKPSSSSLTSGKKPPTKPITTSSSSNSPRPSTVEISDTEDGQDPIQTQPSSQLQSLPQSQAQAQALKKVVKTTTVKDMLKAKRDSFLKSQSGTAAVKGVGNGELKCVSTDVSSSDSSDMESEHGRADRQAGQHGKDGQENLRTADTLLPTTLDADIVTAVNSFKEAVKSRDMCGKKFNLDVKLSPLLLRVYEAVLCTDRNERNMVFSHIEYQLQLPKYYMLRKGKQVRAKEEKRKSTIMLEKLRRAVAVVMPKAVANYETELRTFAEQAAADVNSELPPKMPRKKFQWTSELRHLLYDVYQARWTSYAFLAKRKESLEEFINWYLKEKVVELWPPGWMRLDELQREITRYKNAKLKAKEKPKAPPASASPKPVGVVSAPEQMPPASSYLKAVEDPRSRGNSDTDSATSASSNSLKRKLKEMPKQTSKPPKKKVAKQVPLQPQLTPHPQFQLAPAATAAVSIPAISNNNNHLPHLDTLLSMPSTSAQAAALNAAAVAAASTVLDLASPSRKIDLNTSNNFYNLITAASLAASGNPSPHSGDGQAKVIVGARPSPHVINLDDYQCTSDILQTSKQLAATTTVITAISKAAQTTSVARESSSESDGVEIVGVFPASKPQKKVQSKPKNKTQNRGRSSLGAVGQVNGSLGYSANNMYIYNSPRTLGPVYDLTDPHIMKTMSNLKEMEKQFIQAAFSPNSVKGASGGMGSSAPSTPTRQ |
| 4841 | sp|Q8BGG0|ZNT8\_MOUSE | MEFLERTYLVNDQATKMYAFPLDRELRQKPVNKDQCPGDRPEHPEAGGIYHCHNSAKATGNRSSKQAHAKWRLCAASAICFIFMVAEVVGGHVAGSLAILTDAAHLLIDLTSFLLSLFSLWLSSRPPSKRLTFGWYRAEILGALLSVLCIWVVTGVLLYLACERLLYPDYQIQAGIMITVSGCAVAANIVLTMILHQRNFGYNHKDVQANASVRAAFVHALGDVFQSISVLISALIIYFKPDYKIADPVCTFIFSILVLASTVMILKDFSILLMEGVPKGLSYNSVKEIILAVDGVISVHSLHIWSLTVNQVILSVHVATAASQDSQSVRTGIAQALSSFDLHSLTIQIESAADQDPSCLLCEDPQD |
| 4842 | sp|Q9EQJ4|ZN384\_RAT | MEESHFNSNPYFWPSIPTVSGQIENTMFINKMKDQLLPEKGCGLAPPHYPTLLTVPASVSLSSGISMDTESKSEQLTPHSQASVTQNITVVPVPSTGLMTAGVSCSQRWRREGSQSRGPGLVITSPSGSLVTTASSAQTFPISTPMIVSALPPGSQALQVVPDLSKKVASTLTEEGGGGGGGGGTVAPPKPPRGRKKKRMLESGLPEMNDPYVLAPGDDDDHQKDGKTYRCRMCSLTFYSKSEMQIHSKSHTETKPHKCPHCSKTFANSSYLAQHIRIHSGAKPYSCNFCEKSFRQLSHLQQHTRIHSKMHTETIKPHKCPHCSKTFANTSYLAQHLRIHSGAKPYNCSYCQKAFRQLSHLQQHTRIHTGDRPYKCAHPGCEKAFTQLSNLQSHRRQHNKDKPFKCHNCHRAYTDAASLEAHLSTHTVKHAKVYTCTICSRAYTSETYLMKHMRKHNPPDLQQQVQAAAAAAAVAQAQAQAQAQAQAQAQAQAQAQAQAQAQASQASQQQQQQQPPPPQPPHFQSPGAAPQGGGGGDSNQNPPPQCSFDLTPYKPAEHHKDICLTVTTSTIQVEHLASS |
| 4843 | sp|O54767|ZP2\_RAT | MARWQRVYWLRSLFFALVTSVNSLSLPQSENPAFPGTLICDKDEVRVEFSSRFDMEKWNPSLVDTFGNEISNCTYALDLEKFILKFPYETCTIKVIGGYQVNIRVQDTNADVSYKDDVHHFFCPAIQAEIHEVSEIVVCMEDLISFSFPQLFSRLADENQNVSEMGWIIKIGNGTRVHTLPLKDAIVQGFNLLIDSQKITLHVPANATGVAHYVQESSYLYTVQLKLLFSSPGQKITFSSQAICAPDLSVACNVTHMSLTIPEFPGKLKSVGFGQRNIPEDQWHANGIDKEATNGLRLHFRKSLLKTKPSEKCPFYQFYFSSLELTFNFQGDMLSTVIDPECHCESPVSIDELCTRDGFMDFEVYSHQTKPALNLESLLVGNSSCQPIFKVQSLGLARFHIPLNGCGTRQKFEGDKVIYENEIHALWENPPSNIIFRNSEFRMTVRCHYIRDSMLLRAHIKSHSSPVASVKPGPLALVLQTYPDISYQRPYRKNEYPLVRYLRQPIYMEVTVLNRNDPNIKLVLDDCWATTFEDPASVPQWQIIMDGCEYELDNYRTTFHAANSSAAHSGHYQRFDVKTFAFVSESRGLSSLIYFHCSALICNQASPLCSVTCPAPLRNKREASKEGTMTVSLPGPIILLSDDSSSKGVMNPDSYEITKDIASKTLGAVAALVGSAVIIGFICYLHKKRIVRFNS |
| 4844 | sp|Q8TAU3|ZN417\_HUMAN | MAAAAPRRPTQQGTVTFEDVAVNFSQEEWCLLSEAQRCLYRDVMLENLALISSLGCWCGSKDEEAPCKQRISVQRESQSRTPRAGVSPKKAHPCEMCGLILEDVFHFADHQETHHKQKLNRSGACGKNLDDTAYLHQHQKQHIGEKFYRKSVREASFVKKRKLRVSQEPFVFREFGKDVLPSSGLCQEAAAVEKTDSETMHGPPFQEGKTNYSCGKRTKAFSTKHSVIPHQKLFTRDGCYVCSDCGKSFSRYVSFSNHQRDHTAKGPYDCGECGKSYSRKSSLIQHQRVHTGKTAYPCEECGKSFSQKGSLISHQRVHTGERPYECREYGKSFGQKGNLIQHQQGHTGERAYHCGECGKSFRQKFCFINHQRVHTGERPYKCGECGKSFGQKGNLVQHQRGHTGERPYECKECGKSFRYRSHLTEHQRLHTGERPYNCRECGKLFNRKYHLLVHERVHTGERPYACEVCGKLFGNKNCVTIHQRIHTGERPYECNECGKSFLSSSALHVHKRVHSGQKPYKCSECGKSFAECSSLIKHRRIHTGERPYECTKCGKTFQRSSTLLHHQSSHRRKAL |
| 4845 | sp|Q9LFM5|YUC4\_ARATH | MGTCRESEPTQIFVPGPIIVGAGPSGLAVAACLSNRGVPSVILERTDCLASLWQKRTYDRLKLHLPKHFCELPLMPFPKNFPKYPSKQLFISYVESYAARFNIKPVFNQTVEKAEFDDASGLWNVKTQDGVYTSTWLVVATGENAEPVFPNIPGLKKFTGPVVHTSAYKSGSAFANRKVLVVGCGNSGMEVSLDLCRYNALPHMVVRNSVHVLPRDFFGLSTFGIAMTLLKWFPLKLVDKFLLLLANSTLGNTDLLGLRRPKTGPIELKNVTGKTPVLDVGAISLIRSGQIKVTQAVKEITRNGAKFLNGKEIEFDSIILATGYKSNVPDWLKENSFFTKEGMPKTPFPNGWKGEKGLYTVGFTRRGLSGTAYDAVKIAEDITDQWMKFNGPLSCRNICSSHIIHLHFNKS |
| 4846 | sp|Q9QY02|YTDC1\_RAT | MAADSREEKDGELNVLDDILTEVPEQDDELYNPESEQDKNEKKGSKRKSERMESIDTKRQKPSIHSRQLISKPLSSSVSNNKRIVSTKGKSVTEYKNEEYQRSERNKRLDADRKIRLSSSSSREPYKSQPEKPCLRKRDSERRAKSPTPDGSERIGLEVDRRASRSSQSSKEEGNSEEYGSDHETGSSASSEQGNNTENEEEGGEEDVEEDEEVDEDGDDDEEVDEDAEEEEDEEEDEEEEDEEEEEEEEEEYEQDERDQKEEGNDYDTRSEASDSGSESVSFTDGSVRSGSGTDGSDEKKKERKRARGISPIVFDRSGSSASESYAGSEKKHEKLSSSVRAVRKDQTSKLKYVLQDARFFLIKSNNHENVSLAKAKGVWSTLPVNEKKLNLAFRSARSVILIFSVRESGKFQGFARLSSESHHGGSPIHWVLPAGMSAKMLGGVFKIDWICRRELPFTKSAHLTNPWNEHKPVKIGRDGQEIELECGTQLCLLFPPDESIDLYQLIHKMRHKRRMHSQPRSRGRPSRREPVRDVGRRRPEDYDIHNSRKKPRIDYPPEFHQRPGYLKDPRYQEVDSFTNLIPNRRFSGVRRDVFLNGSYNDYVREFHNMGPPPPWQGMPPYPGIEQPPHHPYYQHHAPPPQAHPPYSGHHPVPHEARYRDKRVHDYDMRVDDFLRRTQAVVSGRRSRPRERDRERERDRPRDNRRDRERDRGRDRERERERICDRDRDRGERGRYRR |
| 4847 | sp|Q8R5C8|ZMY11\_MOUSE | MARLTKRRQADTKAIQHLWAAIEIIRNQKQIANIDRITKYMSRVHGMHPKETTRQLSLAVKDGLIVETLTVGCKGSKAGIEQEGYWLPGDEIDWETETHDWYCFECHLPGEVLICDLCFRVYHSKCLSDEFRLRDSSSHWQCPVCRSIKKKHSNKQEMGTYLRFIVSRMKERAIDLNKKGKDSKHPMYRRLVHSAVDVPTIQEKVNEGKYRSYEEFKADAQLLLHNTVIFYGADSEQADIARMLYKDTCHELDELQLCKNCFYLSNARPDNWFCYPCIPNHELVWAKMKGFGFWPAKVMQKEDNQVDVRFFGHHHQRAWIPSENIQDITVNVHRLHVKRSMGWKKACDELELHQRFLREGRFWKSKNEDRGEEEAESSISSTSNEQLKVTQEPRAKKGRRNQSVEPKKEEPEPETEAVSSSQEIPTMPQPIERVSVSTQTKKLSASSPRMLHRSTQTTSDGVCQSMCHDKYTKIFNDFKDRMKSDHKRETERVVREALEKLRSEMEEEKRQAVNKAVASLQGDMDRKGKQLKEKCKEEFVEEIKKLAAQHKQLISQTKKKQWCYNCEEEAMYHCCWNTSYCSIKCQQEHWHAEHKRTCRRKR |
| 4848 | sp|Q9BQ24|ZFY21\_HUMAN | MSSEVSARRDAKKLVRSPSGLRMVPEHRAFGSPFGLEEPQWVPDKECRRCMQCDAKFDFLTRKHHCRRCGKCFCDRCCSQKVPLRRMCFVDPVRQCAECALVSLKEAEFYDKQLKVLLSGATFLVTFGNSEKPETMTCRLSNNQRYLFLDGDSHYEIEIVHISTVQILTEGFPPGGGNARATGMFLQYTVPGTEGVTQLKLTVVEDVTVGRRQAVAWLVAMHKAAKLLYESRDQ |
| 4849 | sp|O88466|ZN106\_MOUSE | MVRERKCILCHIVYGSKKEMDEHMRSMLHHRELENLKGRDISHECRVCRVTEVGLSAYAKHISGQLHKDNVDAQEREDDGKEEEEEEYFDKELVQLIQERKEQSRQDEPPSNSQEVNSDDRQPQWRREDRIPYQDRESYSQPPRHHRGPPQRDWKWEKDGFNSTRKNSFPHSLRNSGGPRGSSVWHKGATRGSSTWFLNHSNSGGGWHSNNGMVDWNYNGTGRNSSWHSEGTGGFPSWHMNNSNGNWKSSVRGTNSWNYNGLGDKFQQGRNRNPNYQMEDMTKMWNKKSNKPSKYSQERCKWQRQDRDKAAKYRSPPEGYASDTFPSEGLLEFNFEQRESQTTKQTDTAASKINGKNGTKARDKFRRWTPYPSQKTLDLQSALKEVIGSKSDTLEKPLFNFSLITAGLRKPVDKTSNPPVIKTQKAGPPGSPSHKAISDGTAFCEVARACSITEQSEPHQKSNKIPLLKSPLLPLPTPKSGPHKQNLKNRSKNKETKSFPSGDHSHLLNTSTLEGSHGSSYTSKSLGLCPRVLKENKTVSGTQKEPDEKLNNTSQKAQDTVLQCPKTLQNPLPTTPKRMENDAKESSVEESAKDSLSIESQPHSAGNSAMTSDAENHGIKSEGVASLTTEVVSCSTHTVDKEQGSQIPGTPENLSTSPRNSTVLQKEAEVQVSAATSPHSGLLLDLKTSLEDAQDNNLVKSDGPFETESFEDTSLDTELQKPDLNNQPPGTLLPELSKLGFPASLQRDLSRHISLKSKTGTHLPEPNLNSARRIRNVSGHRKNETEKESGLKPTLRQILNASRRNVNWEQVIQQVTKKKQELGKGLPRFGIEMVPLVQNEQEVLDLDEEPDLSSLEGFQWEGVSIPSSSGLARKRSLSESSVVMDRAPVYSFFTGEGTGKENEAQQSPSPNTALSAAQSQKTAMYLEQEVAPLTPSVGTGERVGNIPTQRRHSAQLPSGHIMPVMHSARDLHSQERSTPLSERHAQESTGEGNSLSSNASSGHAVSSLADAATDSSCTSGAEQTDGHSIRKKRRATGDGSSPELPSLERKNKRRKIKGKKERSQVDQLLTISLREEELSKSLQCMDNKLLQARAALQTAYVEVQRLLVLKQQITVEMSALRTHRIQILQGLQETYEPPEHPDQAPCSLISREQRNSRSQTSFETALLPAPFFPGFLDPPPSHASLPSPGNPLQITMSTFQAHGTAPDSSVQIKQEPMSPEQEGNMNALPQGCASNVSKELLQTNRVVDDGSSVYPAIPAVIASESTENCQEVSKDLNFSVEQGNSRSKGNSPSCQSPDLPGINRGEETAKGSSGSEACSSSFLRLSFTPETPAEKETQSPADQPEQQAESTLASAETRGSKKKKKLRKKKTLRATHVPENSDTEQDVFTAKPARKVKTAKAAKGAKVTTSQTGQEQGTARDEPDSDSSLEVLEVTNPQLEVVAIDTSESGDEKPDSPSKKDAWIAAEQNPIETSRSGCDEVSSTSELGTRYKDGVPVSVAETQTVISIKASKHSSEISSEPGDDEEPTEGSFEGHQAAVNAIQIFGNFLYTCSADTTVRVYNLVSRKCVGVFEGHTSKVNCLLVTHTSGKSSVLYTGSSDHTIRCYNIKTRECMEQLQLEDRVLCLHNRWRTLYAGLANGTVVTFDIKNNKRQEIFECHGPRAVSCLATAQEGARKLLVVGSYDCTISVRDARNGLLLRTLEGHSKTVLCMKVVNDLVFSGSSDQSVHAHNIHTGELVRIYKGHNHAVTVVNILGKVMVTACLDKFVRVYELQSHDRLQVYGGHKDMIMCMTIHKSVIYTGCYDGSIQAVRLNLMQNYRCWWYGCTLIFGVVDHLKQHLLTDHTNPNFQTLKCRWRNCDAFFTARKGSKQDVAGHIERHAEDDSKIDS |
| 4850 | sp|Q52T38|ZDH22\_ARATH | MSSEIEVVEEIQSNPKENGESSSKGIEEESLKNDVYTAAAYGDLEKLHRLVECEGSSVSEPDALGYYALQWSALNNRVAVAQYLIEHGGDVNATDHTGQTALHWSAVRGAIQVAELLLQEGARVDATDMYGYQATHVAAQYGQTAFLCHVVSKWNADPDVPDNDGRSPLHWAAYKGFADSIRLLLFLDAYRGRQDKEGCTPLHWAAIRGNLEACTVLVQAGKKEDLMITDKTGLTPAQLAAEKNHRQVSFFLGNARSLLEKRCDGSSPLGRLSKLGLAPVLWIMILLLLLVYTNSVVLASNLPKLTTGIGALAWLGFILATAGLFLFYRCSRKDPGYIRMNIHDPQTMKDDEPLLKIELNNPALLAGNWTQLCATCKIIRPLRAKHCSTCDRCVEQFDHHCPWVSNCVGKKNKWEFFLFLLLEVLAMLITGGVTLARVLSDPSAPSSFGAWMSHVASNHVGALSFLLVEFCLFFSVAVLTVIQASQISRNITTNEMANALRYSYLRGPGGRFRNPYDLGCRRNCSDFLVKGYNEDIECHEEDATQRPEGISMMQMQRNPNLQNGNGHVAIDVNPTHNSQSAHVHSANCSHSHNSKSKSDNVPLGLGLGLSRNPTRPVVSP |
| 4851 | sp|Q64318|ZEB1\_MOUSE | MADGPRCKRRKQANPRRNNVTNYNTVVEANSDSDDEDKLHIVEEESITDAADCEGGMPDDELPADQTVLPGGSDRGGGAKNCWQDNVKDNECDSDAENEQNHDPNVEEFLQQQDTAVIYPEAPEEDQRQGTPEASSHDENGTPDAFSQLLTCPYCDRGYKRFTSLKEHIKYRHEKNEDNFSCSLCSYTFAYRTQLERHMTSHKSGREQRHVTQSGGNRKFKCTECGKAFKYKHHLKEHLRIHSGEKPYECPNCKKRFSHSGSYSSHISSKKCISLMPVNGRPRSGLKTSQCSSPSLSTSPGSPTRPQIRQKIENKPLQEPLSVNQIKTEPVDYEFKPIVVASGINCSTPLQNGVFSSGGQLQATSSPQGVVQAVVLPTVGLVSPISINLSDIQNVLKVAVDGNVIRQVLETNQASLASKEQEAVSASPIQQGGHSVISAISLPLVDQDGTTKIIINYSLEQPSQLQVVPQNLKKEIPAPTNSCKSEKLPEDLTVKSETDKSFEGARDDSTCLLCEDCPGDLNALPELKHYDPECPAQPPPPAPATEKPESSASSAGNGDLSPSQPPLKNLLSLLKAYYALNAQPSTEELSKIADSVNLPLDGVKKWFEKMQAGQIPGQSPDPPSPGTGSVNIPTKTDEQPQPADGNEPQEDSTRGQSPVKIRSSPVLPVGSAMNGSRSCTSSPSPLNLCSARNPQGYSCVAEGAQEEPQVEPLDLSLPKQQGELLERSTVSSVYQNSVYSVQEEPLNLSCAKKEPQKDSCVTDSEPVVNVVPPSANPINIAIPTVTAQLPTIVAIADQNSVPCLRALAANKQTILIPQVAYTYSATVSPAVQEPPVKVIQPNGNQDERQDTSSEGVSTVEDQNDSDSTPPKKKTRKTENGMYACDLCDKIFQKSSSLLRHKYEHTGKRPHECGICRKAFKHKHHLIEHMRLHSGEKPYQCDKCGKRFSHSGSYSQHMNHRYSYCKRGAEDRDAMEQEDAGPEVLPEVLATEHVGARASPSQADSDERESLTREEDEDSEKEEEEEDKEMEELQEGKECENPQGEEEEEEEEEEEEEEEEEEEVEADEAEHEAAAKTDGTVEVGAAQQAGSLEQKASESEMESESESEQLSEEKTNEA |
| 4852 | sp|Q9QZ48|ZBT7A\_RAT | MAGGVDGPIGIPFPDHSSDILSGLNEQRTQGLLCDVVILVEGREFPTHRSVLAACSQYFKKLFTSGAVVDQQNVYEIDFVSAEALTALMDFAYTATLTVSTANVGDILSAARLLEIPAVSRVCTDLLERQILAADDVGDAGQPDGAGPTDQRNLLRAKEYLEFFRSNPMNSLPPTAFQWPGFSAPDDDLDATKEAVAAAVAAVAAGDCNGLDFYGPGPPADRPPTGDGEEGDSTPGLWPERDEDAPPGGLFPPPTAPPATTQNGHYGRAGASTGEEEAVALSEAAPEPGDSPGFLSGAAEGEDGDAADVDGLAASTLLQQMMSSVGRAGDSDEESRPDDKGVMDYYLKYFSGAHEGDVYPAWSQKGEKKIRAKAFQKCPICEKVIQGAGKLPRHIRTHTGEKPYECNICKVRFTRQDKLKVHMRKHTGEKPYLCQQCGAAFAHNYDLKNHMRVHTGLRPYQCDSCCKTFVRSDHLHRHLKKDGCNGVPSRRGRKPRVRGVPPDVPSGAGAPPGLPDAPRNGQEKHFKDEEDDEEEASLDGLGRLNVAGSGGDDGAGGPTVAATEGNFAT |
| 4853 | sp|Q9H171|ZBP1\_HUMAN | MAQAPADPGREGHLEQRILQVLTEAGSPVKLAQLVKECQAPKRELNQVLYRMKKELKVSLTSPATWCLGGTDPEGEGPAELALSSPAERPQQHAATIPETPGPQFSQQREEDIYRFLKDNGPQRALVIAQALGMRTAKDVNRDLYRMKSRHLLDMDEQSKAWTIYRPEDSGRRAKSASIIYQHNPINMICQNGPNSWISIANSEAIQIGHGNIITRQTVSREDGSAGPRHLPSMAPGDSSTWGTLVDPWGPQDIHMEQSILRRVQLGHSNEMRLHGVPSEGPAHIPPGSPPVSATAAGPEASFEARIPSPGTHPEGEAAQRIHMKSCFLEDATIGNSNKMSISPGVAGPGGVAGSGEGEPGEDAGRRPADTQSRSHFPRDIGQPITPSHSKLTPKLETMTLGNRSHKAAEGSHYVDEASHEGSWWGGGI |
| 4854 | sp|Q7Z2W4|ZCCHV\_HUMAN | MADPEVCCFITKILCAHGGRMALDALLQEIALSEPQLCEVLQVAGPDRFVVLETGGEAGITRSVVATTRARVCRRKYCQRPCDNLHLCKLNLLGRCNYSQSERNLCKYSHEVLSEENFKVLKNHELSGLNKEELAVLLLQSDPFFMPEICKSYKGEGRQQICNQQPPCSRLHICDHFTRGNCRFPNCLRSHNLMDRKVLAIMREHGLNPDVVQNIQDICNSKHMQKNPPGPRAPSSHRRNMAYRARSKSRDRFFQGSQEFLASASASAERSCTPSPDQISHRASLEDAPVDDLTRKFTYLGSQDRARPPSGSSKATDLGGTSQAGTSQRFLENGSQEDLLHGNPGSTYLASNSTSAPNWKSLTSWTNDQGARRKTVFSPTLPAARSSLGSLQTPEAVTTRKGTGLLSSDYRIINGKSGTQDIQPGPLFNNNADGVATDITSTRSLNYKSTSSGHREISSPRIQDAGPASRDVQATGRIADDADPRVALVNDSLSDVTSTTSSRVDDHDSEEICLDHLCKGCPLNGSCSKVHFHLPYRWQMLIGKTWTDFEHMETIEKGYCNPGIHLCSVGSYTINFRVMSCDSFPIRRLSTPSSVTKPANSVFTTKWIWYWKNESGTWIQYGEEKDKRKNSNVDSSYLESLYQSCPRGVVPFQAGSRNYELSFQGMIQTNIASKTQKDVIRRPTFVPQWYVQQMKRGPDHQPAKTSSVSLTATFRPQEDFCFLSSKKYKLSEIHHLHPEYVRVSEHFKASMKNFKIEKIKKIENSELLDKFTWKKSQMKEEGKLLFYATSRAYVESICSNNFDSFLHETHENKYGKGIYFAKDAIYSHKNCPYDAKNVVMFVAQVLVGKFTEGNITYTSPPPQFDSCVDTRSNPSVFVIFQKDQVYPQYVIEYTEDKACVIS |
| 4855 | sp|Q8VYP5|ZDH14\_ARATH | MHRSGTTMAWNVFKFCTALRGLGSIMILLVLGVVGVTYYAVVLTNYGPALSQGGLDSLAALTILILFHFLLAMLLWSYFSVVFTDPGVVPPNWRPSTDEERGESDPLNSLDFVGLQSDSSSSNPRVRFCRKCNQLKPSRCHHCSVCGRCVLKMDHHCVWVVNCVGALNYKYFLLFLFYTFLETTLVTLVLMPHFIAFFSDEEIPGTPGTLATTFLAFVLNLAFALSVMGFLIMHISLVAGNTTTIEAYEKKTTTKWRYDLGKKKNFEQVFGMDKRYWLIPGYTEEDLRRMPELQGLEYPSKPDFDSQ |
| 4856 | sp|P60866|RS20\_HUMAN | MAFKDTGKTPVEPEVAIHRIRITLTSRNVKSLEKVCADLIRGAKEKNLKVKGPVRMPTKTLRITTRKTPCGEGSKTWDRFQMRIHKRLIDLHSPSEIVKQITSISIEPGVEVEVTIADA |
| 4857 | sp|Q8R1S9|S38A4\_MOUSE | MDPMELNNVSIEPDGDSCSGDSIQDSYTGMENSDKDAMNSQFANEDAESQKFLTNGFLGKKKLADYADEHHPGMTSFGMSSFNLSNAIMGSGILGLSYAMANTGIILFIIMLLTVAILSLYSVHLLLKTAKEGGSLIYEKLGEKAFGWPGKIGAFISITMQNIGAMSSYLFIIKYELPEVIRAFMGLEENTGEWYLNGNYLVLFVSVGIILPLSLLKNLGYLGYTSGFSLSCMVFFVSVVIYKKFQIPCPLPALDHNNGNLTFNNTLPIHMISLPNDSESSGVNFMMDYAHHNPAGLDEKQVAGPLHSNGVEYEAQGAEKCQPKYFVFNSRTAYAIPILAFAFVCHPEVLPIYSELKDRSRRKMQTVSNISISGMLVMYLLAALFGYLSFYGDVEDELLHAYSKVYTFDTALLMVRLAVLVAVTLTVPIVLFPIRTSVITLLFPRKPFSWLKHFGIAAIIIALNNILVILVPTIKYIFGFIGASSATMLIFILPAAFYLKLVKKEPLRSPQKIGALVFLVTGIIFMMGSMALIILDWIYNPPNPNHH |
| 4858 | sp|Q8N4F4|S22AO\_HUMAN | MGFDVLLDQVGGMGRFQICLIAFFCITNILLFPNIVLENFTAFTPSHRCWVPLLDNDTVSDNDTGTLSKDDLLRISIPLDSNLRPQKCQRFIHPQWQLLHLNGTFPNTNEPDTEPCVDGWVYDRSSFLSTIVTEWDLVCESQSLKSMVQSLFMAGSLLGGLIYGHLSDRVGRKIICKLCFLQLAISNTCAAFAPTFLVYCILRFLAGFSTMTILGNTFILSLEWTLPRSRSMTIMVLLCSYSVGQMLLGGLAFAIQDWHILQLTVSTPIIVLFLSSWKMVESARWLIINNQLDEGLKELRRVAHINGKKNTEETLTTELVRSTMKKELDAVRIKTSIFSLFRAPKLRMRVFGLCFVRFAITVPFYGLILNLQHLGSNVSLFQILCGAVTFTARCVSLLTLNHMGRRISQILFTFPVGLFILVNTFLPQEMQILRVVLATLGIGSVSAASNSASVHHNELVPTILRSTVAGINAVSGRTGAALAPLLMTLMAYSPHLPWISYGVFPILAVPVILLLPETRDLPLPNTIQDVENDRKDSRNIKQEDTCMKVTQF |
| 4859 | sp|Q70HW3|SAMC\_HUMAN | MDRPGFVAALVAGGVAGVSVDLILFPLDTIKTRLQSPQGFSKAGGFHGIYAGVPSAAIGSFPNAAAFFITYEYVKWFLHADSSSYLTPMKHMLAASAGEVVACLIRVPSEVVKQRAQVSASTRTFQIFSNILYEEGIQGLYRGYKSTVLREIPFSLVQFPLWESLKALWSWRQDHVVDSWQSAVCGAFAGGFAAAVTTPLDVAKTRITLAKAGSSTADGNVLSVLHGVWRSQGLAGLFAGVFPRMAAISLGGFIFLGAYDRTHSLLLEVGRKSP |
| 4860 | sp|Q9JHZ9|S38A3\_RAT | MEIPRQTEMVELVPNGKHLEGLLPVGMPTADTQRAEDAQHCGEGKGFLQQSSSKEPHFTDFEGKTSFGMSVFNLSNAIMGSGILGLAYAMANTGIILFLFLLTAVALLSSYSIHLLLKSSGIVGIRAYEQLGYRAFGTPGKLAAALAITLQNIGAMSSYLYIIKSELPLVIQTFLNLEKPTPVWYMDGNYLVILVSVIIILPLALMRQLGYLGYSSGFSLSCMVFFLIAVIYKKFQVPCPLAHNLVNATGNFSHMVVVEEKSQLQSEPDTAEAFCTPSYFTLNSQTAYTIPIMAFAFVCHPEVLPIYTELKDPSKRKMQHISNLSIAVMYVMYFLAALFGYLTFYDGVESELLHTYSKVDPFDVLILCVRVAVLIAVTLTVPIVLFPVRRAIQQMLFQNQEFSWLRHVLIATGLLTCINLLVIFAPNILGIFGIIGATSAPCLIFIFPAIFYFRIMPTEKEPVRSTPKILALCFAAVGFLLMTMSLSFIITDWVSGTSQHGGNH |
| 4861 | sp|Q969S0|S35B4\_HUMAN | MRPALAVGLVFAGCCSNVIFLELLARKHPGCGNIVTFAQFLFIAVEGFLFEADLGRKPPAIPIRYYAIMVTMFFTVSVVNNYALNLNIAMPLHMIFRSGSLIANMILGIIILKKRYSIFKYTSIALVSVGIFICTFMSAKQVTSQSSLSENDGFQAFVWWLLGIGALTFALLMSARMGIFQETLYKRFGKHSKEALFYNHALPLPGFVFLASDIYDHAVLFNKSELYEIPVIGVTLPIMWFYLLMNIITQYVCIRGVFILTTECASLTVTLVVTLRKFVSLIFSILYFQNPFTLWHWLGTLFVFIGTLMYTEVWNNLGTTKSEPQKDSKKN |
| 4862 | sp|Q2L6W9|SAX1\_CAEEL | MGEIAPEMEISQYTKDKASCTRISIESYYSKRVTQCAERENRLKKLEEDISARGLSDEEKEEKRKIHHSKETDYLRLKRTRLTVNDFESLKVIGRGAFGEVRLVQKHDTGHIYAMKILRKSEMVEKEQTAHVRAERDILSEADCDWVVKMYYSFQDYSNLYLVMEFLPGGDMMTLLIKKDTLTEEATQFYIAEAALAIQFIHSLGFIHRDIKPDNLLLDARGHVKLSDFGLCTGLKKFHRTDHYRNWPSTLPPDFISKPFESKRKAETWKRNRRAYAYSTVGTPDYIAPEVFQPNGYTKSCDWWSLGVIMYEMLIGYPPFCSELPQETYRKVINWQQTLVFPSDVPISIEAKATIKRFCCEAERRLGNHGGLDEIKQCPFVKRIDWNHIRERPPPIRVTVKSIDDTSNFDDFPDEDLTWPTSTLIRPEEQPGRRGEFVDFTYKRFDGLTQKMRYSDLKKFQQAKKNKKGGQQGTSD |
| 4863 | sp|Q13621|S12A1\_HUMAN | MSLNNSSNVFLDSVPSNTNRFQVSVINENHESSAAADDNTDPPHYEETSFGDEAQKRLRISFRPGNQECYDNFLQSGETAKTDASFHAYDSHTNTYYLQTFGHNTMDAVPKIEYYRNTGSISGPKVNRPSLLEIHEQLAKNVAVTPSSADRVANGDGIPGDEQAENKEDDQAGVVKFGWVKGVLVRCMLNIWGVMLFIRLSWIVGEAGIGLGVLIILLSTMVTSITGLSTSAIATNGFVRGGGAYYLISRSLGPEFGGSIGLIFAFANAVAVAMYVVGFAETVVDLLKESDSMMVDPTNDIRIIGSITVVILLGISVAGMEWEAKAQVILLVILLIAIANFFIGTVIPSNNEKKSRGFFNYQASIFAENFGPRFTKGEGFFSVFAIFFPAATGILAGANISGDLEDPQDAIPRGTMLAIFITTVAYLGVAICVGACVVRDATGNMNDTIISGMNCNGSAACGLGYDFSRCRHEPCQYGLMNNFQVMSMVSGFGPLITAGIFSATLSSALASLVSAPKVFQALCKDNIYKALQFFAKGYGKNNEPLRGYILTFLIAMAFILIAELNTIAPIISNFFLASYALINFSCFHASYAKSPGWRPAYGIYNMWVSLFGAVLCCAVMFVINWWAAVITYVIEFFLYVYVTCKKPDVNWGSSTQALSYVSALDNALELTTVEDHVKNFRPQCIVLTGGPMTRPALLDITHAFTKNSGLCICCEVFVGPRKLCVKEMNSGMAKKQAWLIKNKIKAFYAAVAADCFRDGVRSLLQASGLGRMKPNTLVIGYKKNWRKAPLTEIENYVGIIHDAFDFEIGVVIVRISQGFDISQVLQVQEELERLEQERLALEATIKDNECEEESGGIRGLFKKAGKLNITKTTPKKDGSINTSQSMHVGEFNQKLVEASTQFKKKQEKGTIDVWWLFDDGGLTLLIPYILTLRKKWKDCKLRIYVGGKINRIEEEKIVMASLLSKFRIKFADIHIIGDINIRPNKESWKVFEEMIEPYRLHESCKDLTTAEKLKRETPWKITDAELEAVKEKSYRQVRLNELLQEHSRAANLIVLSLPVARKGSISDLLYMAWLEILTKNLPPVLLVRGNHKNVLTFYS |
| 4864 | sp|Q9SUR3|RTNLA\_ARATH | MAEEHKHDESVIAPEPAVEVVERESLMDKISEKIHHGGDSSSSSSSSDDEDEKKKTKKPSSPSSSMKSKVYRLFGREQPVHKVLGGGKPADIFMWKNKKMSGGVLGGATAAWVVFELMEYHLLTLLCHVMIVVLAVLFLWSNATMFINKSPPKIPEVHIPEEPILQLASGLRIEINRGFSSLREIASGRDLKKFLIAIAGLWVLSILGGCFNFLTLAYIALVLLFTVPLAYDKYEDKVDPLGEKAMIELKKQYAVLDEKVLSKIPLGPLKNKKKD |
| 4865 | sp|Q01826|SATB1\_HUMAN | MDHLNEATQGKEHSEMSNNVSDPKGPPAKIARLEQNGSPLGRGRLGSTGAKMQGVPLKHSGHLMKTNLRKGTMLPVFCVVEHYENAIEYDCKEEHAEFVLVRKDMLFNQLIEMALLSLGYSHSSAAQAKGLIQVGKWNPVPLSYVTDAPDATVADMLQDVYHVVTLKIQLHSCPKLEDLPPEQWSHTTVRNALKDLLKDMNQSSLAKECPLSQSMISSIVNSTYYANVSAAKCQEFGRWYKHFKKTKDMMVEMDSLSELSQQGANHVNFGQQPVPGNTAEQPPSPAQLSHGSQPSVRTPLPNLHPGLVSTPISPQLVNQQLVMAQLLNQQYAVNRLLAQQSLNQQYLNHPPPVSRSMNKPLEQQVSTNTEVSSEIYQWVRDELKRAGISQAVFARVAFNRTQGLLSEILRKEEDPKTASQSLLVNLRAMQNFLQLPEAERDRIYQDERERSLNAASAMGPAPLISTPPSRPPQVKTATIATERNGKPENNTMNINASIYDEIQQEMKRAKVSQALFAKVAATKSQGWLCELLRWKEDPSPENRTLWENLSMIRRFLSLPQPERDAIYEQESNAVHHHGDRPPHIIHVPAEQIQQQQQQQQQQQQQQQAPPPPQPQQQPQTGPRLPPRQPTVASPAESDEENRQKTRPRTKISVEALGILQSFIQDVGLYPDEEAIQTLSAQLDLPKYTIIKFFQNQRYYLKHHGKLKDNSGLEVDVAEYKEEELLKDLEESVQDKNTNTLFSVKLEEELSVEGNTDINTDLKD |
| 4866 | sp|Q86VL8|S47A2\_HUMAN | MDSLQDTVALDHGGCCPALSRLVPRGFGTEMWTLFALSGPLFLFQVLTFMIYIVSTVFCGHLGKVELASVTLAVAFVNVCGVSVGVGLSSACDTLMSQSFGSPNKKHVGVILQRGALVLLLCCLPCWALFLNTQHILLLFRQDPDVSRLTQDYVMIFIPGLPVIFLYNLLAKYLQNQGWLKGQEEESPFQTPGLSILHPSHSHLSRASFHLFQKITWPQVLSGVVGNCVNGVANYALVSVLNLGVRGSAYANIISQFAQTVFLLLYIVLKKLHLETWAGWSSQCLQDWGPFFSLAVPSMLMICVEWWAYEIGSFLMGLLSVVDLSAQAVIYEVATVTYMIPLGLSIGVCVRVGMALGAADTVQAKRSAVSGVLSIVGISLVLGTLISILKNQLGHIFTNDEDVIALVSQVLPVYSVFHVFEAICCVYGGVLRGTGKQAFGAAVNAITYYIIGLPLGILLTFVVRMRIMGLWLGMLACVFLATAAFVAYTARLDWKLAAEEAKKHSGRQQQQRAESTATRPGPEKAVLSSVATGSSPGITLTTYSRSECHVDFFRTPEEAHALSAPTSRLSVKQLVIRRGAALGAASATLMVGLTVRILATRH |
| 4867 | sp|O48791|SCAB1\_ARATH | MTRVTRDFRDSLQRDGVPAVSADVKFASSRFPNYRIGANDQIFDVKDDPKVMSMKEVVARETAQLMDQQKRLSVRDLAHKFEKGLAAAAKLSEEAKLKEATSLEKHVLLKKLRDALESLRGRVAGRNKDDVEEAIAMVEALAVQLTQREGELFIEKAEVKKLASFLKQASEDAKKLVDEERAFARAEIESARAAVQRVEEALREHEQMSRASGKQDMEDLMKEVQEARRIKMLHQPSRVMDMEYELRALRNQLAEKSKHFLQLQKKLAMCRKSEENISLVYEIDGTEALGSCLRVRPCSNDAPDLSKCTIQWYRSSSDGSKKELISGATKSVYAPEPFDVGRVLHADIIYDGHSLSLSTVGKIDPAAGLGSYVEALVRKHDVDFNVVVTQMSGEDHTSESIHLFHVGKMRIKLCKGKTVIAKEYYSSAMQLCGVRGGGNAAAQALYWQAKKGVSFVIAFESERERNAAIMLARRFACDCNVTLAGPEDRTETGQSP |
| 4868 | sp|Q9Y6Y8|S23IP\_HUMAN | MAERKPNGGSGGASTSSSGTNLLFSSSATEFSFNVPFIPVTQASASPASLLLPGEDSTDVGEEDSFLGQTSIHTSAPQTFSYFSQVSSSSDPFGNIGQSPLTTAATSVGQSGFPKPLTALPFTTGSQDVSNAFSPSISKAQPGAPPSSLMGINSYLPSQPSSLPPSYFGNQPQGIPQPGYNPYRHTPGSSRANPYIAPPQLQQCQTPGPPAHPPPSGPPVQMYQMPPGSLPPVPSSVQSPAQQQVPARPGAPSVQVPSPFLLQNQYEPVQPHWFYCKEVEYKQLWMPFSVFDSLNLEEIYNSVQPDPESVVLGTDGGRYDVYLYDRIRKAAYWEEEPAEVRRCTWFYKGDTDSRFIPYTEEFSEKLEAEYKKAVTTNQWHRRLEFPSGETIVMHNPKVIVQFQPSSVPDEWGTTQDGQTRPRVVKRGIDDNLDEIPDGEMPQVDHLVFVVHGIGPVCDLRFRSIIECVDDFRVVSLKLLRTHFKKSLDDGKVSRVEFLPVHWHSSLGGDATGVDRNIKKITLPSIGRFRHFTNETLLDILFYNSPTYCQTIVEKVGMEINHLHALFMSRNPDFKGGVSVAGHSLGSLILFDILSNQKDLNLSKCPGPLAVANGVVKQLHFQEKQMPEEPKLTLDESYDLVVENKEVLTLQETLEALSLSEYFSTFEKEKIDMESLLMCTVDDLKEMGIPLGPRKKIANFVEHKAAKLKKAASEKKAVAATSTKGQEQSAQKTKDMASLPSESNEPKRKLPVGACVSSVCVNYESFEVGAGQVSVAYNSLDFEPEIFFALGSPIAMFLTIRGVDRIDENYSLPTCKGFFNIYHPLDPVAYRLEPMIVPDLDLKAVLIPHHKGRKRLHLELKESLSRMGSDLKQGFISSLKSAWQTLNEFARAHTSSTQLQEELEKVANQIKEEEEKQVVEAEKVVESPDFSKDEDYLGKVGMLNGGRRIDYVLQEKPIESFNEYLFALQSHLCYWESEDTALLLLKEIYRTMNISPEQPQH |
| 4869 | sp|G5EEW6|SIG7\_CAEEL | MAVLIETTLGDLIIDLFVKERPRCSLNFLKLCKKKYYNLNQFHSIERNYVAQTGDPTGTGKGGESVYSDMYGEQGRYFEREDLPKMRHTRMGIVSFVNNGDNMLGSQFFITLGENLDYLDDQHTIFGQVTEGLETLEKLNEQLADTNNRPFKDIRISHTIVLDDPFDEDARISFPPRSPSPTYEMLVKTDQIALDEKEDEDEGKTAEEIAEELQQREMAEQAQILEMVGDLKDADEVPPENVLFVCKLNPVTTDEDLEIIFSRFGKINNCEIVRDRRSGDSLQYAFIEFDNAKSCEQAFFKMDNVLIDDRRIHVDFSQSVSQNYKYKPKSQQQEAPKRRQSPQRRPEVKRSHQRSPSPRRRRSPSPKKDKKRDYRREPARRRRSSDNHRDRDRSYRDNNRDRRDNHRDSDRDRRRHDRSPDRRRDRR |
| 4870 | sp|Q03067|SGF11\_YEAST | MTEETITIDSISNGILNNLLTTLIQDIVARETTQQQLLKTRYPDLRSYYFDPNGSLDINGLQKQQESSQYIHCENCGRDVSANRLAAHLQRCLSRGARR |
| 4871 | sp|Q8IE95|SETVS\_PLAF7 | MEYKLFKNKKILNEKVNELTKKNRQRNTLDHINCIEIDDDDDDDNDNNEEPKEMNINKTNNNNNDILMKSCNDIRRNTTFYRHNVINEEQKNFEYLLSRKKKNVDSIDNVNFYDFMKNDFFNIFNNNIISEHKKTNQIVNQINNNVDTSKNVVYNINYDEHKGEVVNLSFDKKGKETYPQVDIELYNKKMNPRYQNINEQNTCQTSDDNTTYRNVYSDNCALNSSYTNFLRNKSLKYKKCYKQNRQDESTGAEFDYNLDESVYYDDCNNKLYKRSFLKNNKNIIEKGREEHKQDIYNNISDICKSYIKNFDYLNKRIFHNKSKIWKLSNKKVTIHGDPKKRIERNKQEIEDHRREQDGENDQEEDNYDDYDDEDDDDDNCHIYDNYDDYLENDDYDNHNYFYHKNHDVNKIRKIQNKNCSTDFINYTSINNRNMECPNKNADNLKNMDSFLLYMKERKIKKKKNINDHMENQLSDTLNNSNNYNKDVYDSYYDDMNFCYDKDYNMILKKGVNSNRTKSLDRYPNNISHNYVNNISSEIIKYCKDNNITLKSDIKNIINHFNKKYANSSLTNSKISMYENGYPQRSVDRIYDSSTNDPKSDMNGSNNNNSSSNNNNNITHITNDCDNTQTNKNKHYVNSIVNSIVNIFQKRKNVNEKKENINEQNCISFNTNLRNNKLNNNDDLCSNSYVNNINRNKQITNNENKKDNMLMLKGTYHGDSLNESINIEHNLKNNNSMSDVNFVLNNNDNDKKQNSYDISEVSINCYYDDVIKCYMDYTMHGMEDETNFYLCEFCEQNIFDMNNMIKKDKAKECMYRCNISCGRTFHKACVCYIKNNDNYICFFCLYDINFCTLCKEVLTNDSLLPCYYPLCSVSMHTKCVEKLLLFNSHCLKQYESIILPRDINIEQQKNTQKSASDGIIEQPLNIKKKIKRRHIYRKRRRRGPRKSQITTSNKKINKSELAGGSIINGVDMEQENDQGGNNNNNDDNNDDNNDNNDDNNDNNDDNNDNNDNNDDNNNDNNNNNNNDNNDNNNNNNNNNNNNDNDNNNNNNCDENFKNHLLKKDLLRDEPHHNNYDKILECNTEIKMENNVNMSEEPIYNKLFNGKEETLNNENDEKIIVLKKFICPLHICYVCKEFDINNTESSKKELKNNLFRCIKCYKSVHRKCMNQLKNNDNNDNDNNNNNINIYIISHKHRIICCANHMDDYKKEHMEYLKYIKEVKDICKLDEPIHNNNNNNNILSEKGFYGDENNLSISKFHNNSSYEPIKNKETCIKGKDSNYLSHDNKGITDMNNTNKMNVLNLKSCMVNDMNTSERKKKKSCESRGSNITNKKVVFDLTDELNEKEKSPPLDNVQNKIIYGDNEIEKNVNICQKEDGGLNLGSMNILSIGKNHMRTNNNNNNDSSCSSNNNIISVENEYILKNKNLNKSNNSLLDHNNKIKKNSTLNIKECTDSCINVDEFINKNQNEKDISLENIDALCIKRKRNVSHPYNDTLDDTNILKDISNNKSYYVNISKKKRNVSFNYKEEFMKGDEQFLLKGNNLESNEKNTKNKLCNNDNNNNNNNKGKNTKYNTLDRKNNKNKQINDTINKEPENINHNMQNQQLTDNFVEDNMKYKQEIYHIKLSHILSIEKGLLSLQEINIDQMNDECKKHISILCTFRQDFINYVIFLFSKRLHKENQIEPVNGVDHKKEGNIYHAERKQEKINHNAKHNEQGSINNAKHNEQGSINNAKHNEQDSINNAKQNEQDSINNAKHNEQDSINNAKHNEQDSINNAKHNEDDSLNNAKHNEDDSLNNAKQNEEDSLNNAKQNEEDILNNDDHRNQEELHERWKENMVYNFLANYDKKEKKYISKKEEDAIIKILSNDIVGIMKKELKISLYDFIMLKKKTISTNENHKDNDESVVYVEDGKHHCNDINKMKDNVNNDIIPNIKYNNNNYDDVINTKEKESIPDASYMKVTRNQSIMNNDIYNNNIQIIEKERIMNNNKKNYYDEEKKREEYNGLFSKGKKKSFKNNKMDLKTFFSLTNNGYKVDISILKKYSSFLKFEYISKNIYLNDKNKNLLACKSDDYKCLCQGECNLYTCYNSLSNIQCSKSRCNLPEKIQDRKCFNRPFRKSFVKDLEIKKTEKTGYGVFCKRDIKNGELICEYVGEVLGKREFEKRLEVYQEESKKTDMYNWYIIQINKDVYIDSGKKGSISRFINHSCSPNSVSQKWIVRGFYRIGIFALRDIPSGEEITYNYSYNFLFNNFECLCKSPNCMNYHLLKKGESSGASNIIKETELLNNTIFNPVENFHNLHGKMQDWNIFIEEAHTRLLYEYNKMNAFNLRLMECYSTWIFYDMNFQKNQFFSLKSKPYNVSAEFWKVLVSAFSDGEKNIINTFNLFLPSLIKIGQLRRIQQYSYILHNIIGLEHDMWNLIDKGFADDEVCRKCKSCGNLTMCDKCFQSYHQLCGNMHSKMYKNNELVLCRFCQKYDYKIQWIKENHGSKMKTCIEIRSKAFYKLNRDIMTLLEESVKYTQNQSLDSIHAHNTKAFKSKKLKLRKFQYKYVKI |
| 4872 | sp|P0DJJ3|SGIP1\_RAT | MMEGLKKRTRKAFGIRKKEKDTDSTGSPDRDGMQPSPHEPPYHSKAECAREGGKKASKKSNGAPNGFYAEIDWERYNSPELDEEGYSIRPEEPGSTKGKHFYSSSESEEEEESHKKFNIKIKPLQSKDVLKNAATVDELKASIGNIALSPSPVRKSPRRSPGAIKRNLSSEEVARPRRSTPTPELTSKKPLDDTLALAPLFGPPLESAFDEQKTEVLLDQPEIWGSGQPINPSMESPKLARPFPTGTPPPLPPKAVPATPPRTGSPLTVATGNDQAATEAKIEKLPSISDLDSIFGPVLSPKSVAVNTEEKWVHFSDASPEHVTPELTPREKVVTPPAASDIPADSPAPGPPGPPGSAGPPGPPGPRHVPSPLNLEEVQKKVAEQTFIKDDYLETLSSPKECGLGQRATPPPPPPPTYRTVVSSPGPGSGSGTGTASGASSPARPATPLVPCSSTTPPPPPPRPPSRPKLPPGKPGVGDVSRPFSPPIHSSSPPPIAPLARAESTSSISSTNSLSAATTPTVENEQPSLVWFDRGKFYLTFEGSSRGPSPLTMGAQDTLPVAAAFTETVNAYFKGADPSKCIVKITGEMVLSFPAGITRHFANNPSPAALTFRVINSSRLEHVLPNPQLLCCDNTQNDANTKEFWVNMPNLMTHLKKVSEQKPQATYYNVDMLKYQVSAQGIQSTPLNLAVNWRCEPGSTDLRIDYKYNTDAMTTAVALNNVQFLVPIDGGVTKLQAVLPPAVWNAEQQRILWKIPDISQKSENGGVGSLLARFQLSEGPSKPSPLVVQFTSEGSTLSGCDIELVGAGYRFSLIKKRFAAGKYLADN |
| 4873 | sp|Q96ES7|SGF29\_HUMAN | MALVSADSRIAELLTELHQLIKQTQEERSRSEHNLVNIQKTHERMQTENKISPYYRTKLRGLYTTAKADAEAECNILRKALDKIAEIKSLLEERRIAAKIAGLYNDSEPPRKTMRRGVLMTLLQQSAMTLPLWIGKPGDKPPPLCGAIPASGDYVARPGDKVAARVKAVDGDEQWILAEVVSYSHATNKYEVDDIDEEGKERHTLSRRRVIPLPQWKANPETDPEALFQKEQLVLALYPQTTCFYRALIHAPPQRPQDDYSVLFEDTSYADGYSPPLNVAQRYVVACKEPKKK |
| 4874 | sp|Q8N9R8|SCAI\_HUMAN | MVRGARQPQQPRSRLAPRLTGTVEKPPRKRRSRTEFALKEIMSSGGAEDDIPQGERKTVTDFCYLLDKSKQLFNGLRDLPQYGQKQWQSYFGRTFDVYTKLWKFQQQHRQVLDNRYGLKRWQIGEIASKIGQLYYHYYLRTSETSYLNEAFSFYSAIRQRSYYSQVNKEDRPELVVKKLRYYARFIVVCLLLNKMDVVKDLVKELSDEIEDYTHRFNTEDQVEWNLVLQEVAAFIEADPVMVLNDDNTIVITSNRLAETGAPLLEQGMIVGQLSLADALIIGNCNNQVKFSELTVDMFRMLQALEREPMNLASQMNKPGMQESADKPTRRENPHKYLLYKPTFSQLYTFLAASFKELPANSVLLIYLSATGVFPTGRSDSEGPYDFGGVLTNSNRDIINGDAIHKRNQSHKEMHCLHPGDLYPFTRKPLFIIVDSSNSVAYKNFTNLFGQPLVCLLSPTAYPKALQDQSQRGSLFTLFLNNPLMAFLFVSGLSSMRRGLWEKCQEYLRKINRDIAQLLTHSRSIDQAFLQFFGDEFLRLLLTRFIFCSATMRMHKIFRETRNYPESYPQLPRDETVENPHLQKHILELASILDVRNVFFENTIDDY |
| 4875 | sp|Q71F54|SH3R1\_RAT | MDESALLDLLECPVCLERLDASAKVLPCQHTFCKRCLLGIVGSRNELRCPECRTLVGSGVDELPSNILLVRLLDGIKQRPWKPGPGGGGSTTCTNVLRAQGSTVVNCGSKDLQSPQCGQQPRVQAWSPPVRGIPQLPCAKALYNYEGKEPGDLKFSKGDIIILRRQVDENWYHGEVNGVHGFFPTNFVQIIKPLPQPPPQCKALYDFEVKDKEADKDCLPFAKDDVLTVIRRVDENWAEGMLADKIGIFPISYVEFNSAAKQLIEWDKPPVPGVDTAECPSATAAQSSSASKHSDTKKNTRKRHSFTSLTMANKSSQASQNRHSMEISPPVLISSSNPTAAARISELSGLSCSAPSQVHISTTGLIVTPPPSSPVTTGPSFTFPTDVPYQAALGTMNPPLPPPPLLATTVLASTPSGATAAAVAAAAAAVAAGVGPRPAVGSTEQIAHLRPQTRPSVYVAIYPYTPRKEDELELRKGEMFLVFERCQDGWYKGTSMHTSKIGVFPGNYVAPVTRAVTNASQAKVPMSTAGQASRGVTMVSPSTAGGPAQKPQGNGVAGNPSVVPTAVVSAAHIQTSPQAKVLLHMTGQMTVNQARNAVRTVAAHNQERPTAAVTPIQVQNAACIGPASVGLPHHSLASQPLPPMVGPAAHIAAVNINRTSVPLACAAGASSLASPNMTTAALETEPSGRTVTILPGLPTSPESAASACGNSSAVKPDKDSKKEKKGLLKLLSGASTKRKPRVSPPASPTLDVELGSGEVPLQGAVGPELPLGGVHGRVGSCPTDGDGPVAAGTAALAQDAFHRKTSSLDSAVPIAPPPRQACSSLGPVMNEARPVVCERHRVVVSYPPQSEAELELKEGDIVFVHKKREDGWFKGTLQRNGKTGLFPGSFVENI |
| 4876 | sp|Q80Z38|SHAN2\_MOUSE | MKSLLNAFTKKEVPFREAPAYSNRRRRPPNTLAAPRVLLRSNSDNNLNAGAPEWAVCSAATSHRSLSPQLLQQTPSKPDGATKSLGSYTPGPRSRSPSLNRLGGTAEDGKRTQPHWHVGSPFTPGANKDSLSTFEYPGPRRKLYSAVPGRLFVAVKPYQPQVDGEIPLHRGDRVKVLSIGEGGFWEGSARGHIGWFPAECVEEVQCKPRDSQAETRADRSKKLFRHYTVGSYDSFDAASDCIIEDKTVVLQKKDNEGFGFVLRGAKADTPIEEFTPTPAFPALQYLESVDEGGVAWQAGLRTGDFLIEVNNENVVKVGHRQVVNMIRQGGNHLILKVVTVTRNLDPDDTARKKAPPPPKRAPTTALTLRSKSMTAELEELGLSLVDKASVRKKKDKPEEIVPASKPSRTAENVAIESRVATIKQRPTSRCFPAASDVNSVYERQGIAVMTPTVPGSPKGPFLGLPRGTMRRQKSIDSRIFLSGITEEERQFLAPPMLKFTRSLSMPDTSEDIPPPPQSVPPSPPPPSPTTYNCPRSPTPRVYGTIKPAFNQNPVVAKVPPATRSDTVATMMREKGMFYRRELDRFSLDSEDVYSRSPAPQAAFRTKRGQMPENPYSEVGKIASKAVYVPAKPARRKGVLVKQSNVEDSPEKTCSIPIPTIIVKEPSTSSSGKSSQGSSMEIDPQATEPGQLRPDDSLTVSSPFAAAIAGAVRDREKRLEARRNSPAFLSTDLGDEDVGLGPPAPRMQASKFPEEGGFGDEDETEQPLLPTPGAAPRELENHFLGGGEAGAQGEAGGPLSSTSKAKGPESGPAAPLKSSSPAGPENYVHPLTGRLLDPSSPLALALSARDRAMQESQQGHKGEAPKADLNKPLYIDTKMRPSVESGFPPVTRQNTRGPLRRQETENKYETDLGKDRRADDKKNMLINIVDTAQQKSAGLLMVHTVDVPMAGPPLEEEEDREDGDTKPDHSPSTVPEGVPKTEGALQISAAPEPAVAPGRTIVAAGSVEEAVILPFRIPPPPLASVDLDEDFLFTEPLPPPLEFANSFDIPDDRAASVPALADLVKQKKNDTSQPPTLNSSQPANSTDSKKPAGISNCLPSSFLPPPESFDAVTDSGIEEVDSRSSSDHHLETTSTISTVSSISTLSSEGGESMDTCTVYADGQAFVVDKPPVPPKPKMKPIVHKSNALYQDTLPEEDTDGFVIPPPAPPPPPGSAQAGVAKVIQPRTSKLWGDVPEVKSPILSGPKANVISELNSILQQMNRGKSVKPGEGLELPVGAKSANLAPRSPEVMSTVSGTRSTTVTFTVRPGTSQPITLQSRPPDYESRTSGPRRAPSPVVSPTELSKEILPTPPPPSATAASPSPTLSDVFSLPSQSPAGDLFGLNPAGRSRSPSPSILQQPISNKPFTTKPVHLWTKPDVADWLESLNLGEHKETFMDNEIDGSHLPNLQKEDLIDLGVTRVGHRMNIERALKQLLDR |
| 4877 | sp|P40316|SECU\_YEAST | MMPANEDKENNIVYTGNESSGINFPQTPAHLLKRSHSNILKPPVRLDQLKRDANSNNGNTLKYIQGGKEVSPTKRLHTHAQQQGRLPLAAKDNNRSKSFIFPETSNQSKDADLPQLQNTLSIRKNDQLRKLSQISRSRSRANHNDLLSNSRKLQKYGSVLGYNALPKMKSLVLKDLADSGKNEESSDDDEGNEDSESKLGKKLQSALLKQDSSDGENELNGGLGLFNEQGGLQQLIKNSTKNEQKTKNDKSDKTDDYDIEIAPQRQEPLPYVPEGYSPFQQDDIEKLKTFNSPYKLDLEDEDDTPDKVDLLPLEQIDEEGEKDETECITRNQEEGAALPLLSKNFKEVAAVPTMELVYSEEGLDPEELEDLVT |
| 4878 | sp|O08665|SEM3A\_MOUSE | MGWFTGIACLFWGVLLTARANYANGKNNVPRLKLSYKEMLESNNVITFNGLANSSSYHTFLLDEERSRLYVGAKDHIFSFNLVNIKDFQKIVWPVSYTRRDECKWAGKDILKECANFIKVLEAYNQTHLYACGTGAFHPICTYIEVGHHPEDNIFKLQDSHFENGRGKSPYDPKLLTASLLIDGELYSGTAADFMGRDFAIFRTLGHHHPIRTEQHDSRWLNDPRFISAHLIPESDNPEDDKVYFFFRENAIDGEHSGKATHARIGQICKNDFGGHRSLVNKWTTFLKARLICSVPGPNGIDTHFDELQDVFLMNSKDPKNPIVYGVFTTSSNIFKGSAVCMYSMSDVRRVFLGPYAHRDGPNYQWVPYQGRVPYPRPGTCPSKTFGGFDSTKDLPDDVITFARSHPAMYNPVFPINNRPIMIKTDVNYQFTQIVVDRVDAEDGQYDVMFIGTDVGTVLKVVSVPKETWHDLEEILLEEMTVFREPTTISAMELSTKQQQLYIGSTAGVAQLPLHRCDIYGKACAECCLARDPYCAWDGSSCSRYFPTAKRRTRRQDIRNGDPLTHCSDLQHHDNHHGPSLEERIIYGVENSSTFLECSPKSQRALVYWQFQRRNEDRKEEIRMGDHIIRTEQGLLLRSLQKKDSGNYLCHAVEHGFMQTLLKVTLEVIDTEHLEELLHKDDDGDGSKIKEMSSSMTPSQKVWYRDFMQLINHPNLNTMDEFCEQVWKRDRKQRRQRPGHSQGSSNKWKHMQESKKGRNRRTHEFERAPRSV |
| 4879 | sp|P50404|SFTPD\_MOUSE | MLPFLSMLVLLVQPLGNLGAEMKSLSQRSVPNTCTLVMCSPTENGLPGRDGRDGREGPRGEKGDPGLPGPMGLSGLQGPTGPVGPKGENGSAGEPGPKGERGLSGPPGLPGIPGPAGKEGPSGKQGNIGPQGKPGPKGEAGPKGEVGAPGMQGSTGAKGSTGPKGERGAPGVQGAPGNAGAAGPAGPAGPQGAPGSRGPPGLKGDRGVPGDRGIKGESGLPDSAALRQQMEALKGKLQRLEVAFSHYQKAALFPDGRSVGDKIFRTADSEKPFEDAQEMCKQAGGQLASPRSATENAAIQQLITAHNKAAFLSMTDVGTEGKFTYPTGEPLVYSNWAPGEPNNNGGAENCVEIFTNGQWNDKACGEQRLVICEF |
| 4880 | sp|Q08535|SECR\_MOUSE | MEPPLPTPMLLLLLLLLSSSAALPAPPRTPRHSDGMFTSELSRLQDSARLQRLLQGLVGKRSEQDTENIPENSLARSKPLEDQLCLLWSNTQTLQDWLLPRLSLDGSLSLWLPPGPRSAVDRSEWTETTRPPR |
| 4881 | sp|Q12874|SF3A3\_HUMAN | METILEQQRRYHEEKERLMDVMAKEMLTKKSTLRDQINSDHRTRAMQDRYMEVSGNLRDLYDDKDGLRKEELNAISGPNEFAEFYNRLKQIKEFHRKHPNEICVPMSVEFEELLKARENPSEEAQNLVEFTDEEGYGRYLDLHDCYLKYINLKASEKLDYITYLSIFDQLFDIPKERKNAEYKRYLEMLLEYLQDYTDRVKPLQDQNELFGKIQAEFEKKWENGTFPGWPKETSSALTHAGAHLDLSAFSSWEELASLGLDRLKSALLALGLKCGGTLEERAQRLFSTKGKSLESLDTSLFAKNPKSKGTKRDTERNKDIAFLEAQIYEYVEILGEQRHLTHENVQRKQARTGEEREEEEEEQISESESEDEENEIIYNPKNLPLGWDGKPIPYWLYKLHGLNINYNCEICGNYTYRGPKAFQRHFAEWRHAHGMRCLGIPNTAHFANVTQIEDAVSLWAKLKLQKASERWQPDTEEEYEDSSGNVVNKKTYEDLKRQGLL |
| 4882 | sp|Q15637|SF01\_HUMAN | MATGANATPLDFPSKKRKRSRWNQDTMEQKTVIPGMPTVIPPGLTREQERAYIVQLQIEDLTRKLRTGDLGIPPNPEDRSPSPEPIYNSEGKRLNTREFRTRKKLEEERHNLITEMVALNPDFKPPADYKPPATRVSDKVMIPQDEYPEINFVGLLIGPRGNTLKNIEKECNAKIMIRGKGSVKEGKVGRKDGQMLPGEDEPLHALVTANTMENVKKAVEQIRNILKQGIETPEDQNDLRKMQLRELARLNGTLREDDNRILRPWQSSETRSITNTTVCTKCGGAGHIASDCKFQRPGDPQSAQDKARMDKEYLSLMAELGEAPVPASVGSTSGPATTPLASAPRPAAPANNPPPPSLMSTTQSRPPWMNSGPSESRPYHGMHGGGPGGPGGGPHSFPHPLPSLTGGHGGHPMQHNPNGPPPPWMQPPPPPMNQGPHPPGHHGPPPMDQYLGSTPVGSGVYRLHQGKGMMPPPPMGMMPPPPPPPSGQPPPPPSGPLPPWQQQQQQPPPPPPPSSSMASSTPLPWQQNTTTTTTSAGTGSIPPWQQQQAAAAASPGAPQMQGNPTMVPLPPGVQPPLPPGAPPPPPPPPPGSAGMMYAPPPPPPPPMDPSNFVTMMGMGVAGMPPFGMPPAPPPPPPQN |
| 4883 | sp|P97454|SMAD5\_MOUSE | MTSMASLFSFTSPAVKRLLGWKQGDEEEKWAEKAVDALVKKLKKKKGAMEELEKALSSPGQPSKCVTIPRSLDGRLQVSHRKGLPHVIYCRVWRWPDLQSHHELKPLDICEFPFGSKQKEVCINPYHYKRVESPVLPPVLVPRHNEFNPQHSLLVQFRNLSHNEPHMPQNATFPDSFHQPNNAPFPLSPNSPYPPSPASSTYPNSPASSGPGSPFQLPADTPPPAYMPPDDQMAPDNSQPMDTSSNMIPQTMPSISSRDVQPVAYEEPKHWCSIVYYELNNRVGEAFHASSTSVLVDGFTDPSNNKSRFCLGLLSNVNRNSTIENTRRHIGKGVHLYYVGGEVYAECLSDSSIFVQSRNCNFHHGFHPTTVCKIPSSCSLKIFNNQEFAQLLAQSVNHGFEAVYELTKMCTIRMSFVKGWGAEYHRQDVTSTPCWIEIHLHGPLQWLDKVLTQMGSPLNPISSVS |
| 4884 | sp|Q9R168|SFRP1\_RAT | VRDSCEPVMQFFGFYWPEMLKCDKFPEGDVCIAMTPPNATEASKPQGTTVCPPCDNELKSEAIIEHLCASEFALRMKIKEVKKENGDKKIVPKKKKPLKLGPIKKKELKRLVLFLKNGADCPCHQLDNLSHNFLIMGRKVKSQYLLTAIHKWDKKNKE |
| 4885 | sp|Q29551|SCOT1\_PIG | MAALTLLSSRLRLCASAYRSGGAWSQGCAGYFSTSTRRHTKFYTDAVEAVKDIPNGATVLVGGFGLCGIPENLIGALLKTGVKELTAVSNNAGVDNFGLGLLLQSKQIKRMISSYVGENAEFERQYLAGELEVELTPQGTLAERIRAGGAGVPAFYTSTGYGTLVQEGGSPIKYNKDGSIAIASKPREVREFNGQHFILEEAIRGDFALVKAWKADQAGNVTFRKSARNFNLPMCKAAETTVVEVEEIVDIGSFAPEDIHIPKIYVHRLVKGEKYEKRIERLSVRKEEDVKTRSGKLGDNVRERIIKRAALEFEDGMYANLGIGIPLLASNFISPNMTVHLQSENGILGLGPYPLQNEVDADLINAGKETVTVLPGASYFSSDESFAMIRGGHVNLTMLGAMQVSKYGDLANWMIPGKLVKGMGGAMDLVSSAKTKVVVTMEHSAKGNAHKIMEKCTLPLTGKQCVNRIITEKAVFDVDSKKGLTLIELWEGLTVDDIKKSTGCDFAVSPKLIPMQQVTT |
| 4886 | sp|Q700C7|SPCH\_ARATH | MQEIIPDFLEECEFVDTSLAGDDLFAILESLEGAGEISPTAASTPKDGTTSSKELVKDQDYENSSPKRKKQRLETRKEEDEEEEDGDGEAEEDNKQDGQQKMSHVTVERNRRKQMNEHLTVLRSLMPCFYVKRGDQASIIGGVVEYISELQQVLQSLEAKKQRKTYAEVLSPRVVPSPRPSPPVLSPRKPPLSPRINHHQIHHHLLLPPISPRTPQPTSPYRAIPPQLPLIPQPPLRSYSSLASCSSLGDPPPYSPASSSSSPSVSSNHESSVINELVANSKSALADVEVKFSGANVLLKTVSHKIPGQVMKIIAALEDLALEILQVNINTVDETMLNSFTIKIGIECQLSAEELAQQIQQTFC |
| 4887 | sp|Q07889|SOS1\_HUMAN | MQAQQLPYEFFSEENAPKWRGLLVPALKKVQGQVHPTLESNDDALQYVEELILQLLNMLCQAQPRSASDVEERVQKSFPHPIDKWAIADAQSAIEKRKRRNPLSLPVEKIHPLLKEVLGYKIDHQVSVYIVAVLEYISADILKLVGNYVRNIRHYEITKQDIKVAMCADKVLMDMFHQDVEDINILSLTDEEPSTSGEQTYYDLVKAFMAEIRQYIRELNLIIKVFREPFVSNSKLFSANDVENIFSRIVDIHELSVKLLGHIEDTVEMTDEGSPHPLVGSCFEDLAEELAFDPYESYARDILRPGFHDRFLSQLSKPGAALYLQSIGEGFKEAVQYVLPRLLLAPVYHCLHYFELLKQLEEKSEDQEDKECLKQAITALLNVQSGMEKICSKSLAKRRLSESACRFYSQQMKGKQLAIKKMNEIQKNIDGWEGKDIGQCCNEFIMEGTLTRVGAKHERHIFLFDGLMICCKSNHGQPRLPGASNAEYRLKEKFFMRKVQINDKDDTNEYKHAFEIILKDENSVIFSAKSAEEKNNWMAALISLQYRSTLERMLDVTMLQEEKEEQMRLPSADVYRFAEPDSEENIIFEENMQPKAGIPIIKAGTVIKLIERLTYHMYADPNFVRTFLTTYRSFCKPQELLSLIIERFEIPEPEPTEADRIAIENGDQPLSAELKRFRKEYIQPVQLRVLNVCRHWVEHHFYDFERDAYLLQRMEEFIGTVRGKAMKKWVESITKIIQRKKIARDNGPGHNITFQSSPPTVEWHISRPGHIETFDLLTLHPIEIARQLTLLESDLYRAVQPSELVGSVWTKEDKEINSPNLLKMIRHTTNLTLWFEKCIVETENLEERVAVVSRIIEILQVFQELNNFNGVLEVVSAMNSSPVYRLDHTFEQIPSRQKKILEEAHELSEDHYKKYLAKLRSINPPCVPFFGIYLTNILKTEEGNPEVLKRHGKELINFSKRRKVAEITGEIQQYQNQPYCLRVESDIKRFFENLNPMGNSMEKEFTDYLFNKSLEIEPRNPKPLPRFPKKYSYPLKSPGVRPSNPRPGTMRHPTPLQQEPRKISYSRIPESETESTASAPNSPRTPLTPPPASGASSTTDVCSVFDSDHSSPFHSSNDTVFIQVTLPHGPRSASVSSISLTKGTDEVPVPPPVPPRRRPESAPAESSPSKIMSKHLDSPPAIPPRQPTSKAYSPRYSISDRTSISDPPESPPLLPPREPVRTPDVFSSSPLHLQPPPLGKKSDHGNAFFPNSPSPFTPPPPQTPSPHGTRRHLPSPPLTQEVDLHSIAGPPVPPRQSTSQHIPKLPPKTYKREHTHPSMHRDGPPLLENAHSS |
| 4888 | sp|Q9NRS6|SNX15\_HUMAN | MSRQAKDDFLRHYTVSDPRTHPKGYTEYKVTAQFISKKDPEDVKEVVVWKRYSDFRKLHGDLAYTHRNLFRRLEEFPAFPRAQVFGRFEASVIEERRKGAEDLLRFTVHIPALNNSPQLKEFFRGGEVTRPLEVSRDLHILPPPLIPTPPPDDPRLSQLLPAERRGLEELEVPVDPPPSSPAQEALDLLFNCESTEEASGSPARGPLTEAELALFDPFSKEEGAAPSPTHVAELATMEVESARLDQEPWEPGGQEEEEDGEGGPTPAYLSQATELITQALRDEKAGAYAAALQGYRDGVHVLLQGVPSDPLPARQEGVKKKAAEYLKRAEEILRLHLSQLPP |
| 4889 | sp|P35499|SCN4A\_HUMAN | MARPSLCTLVPLGPECLRPFTRESLAAIEQRAVEEEARLQRNKQMEIEEPERKPRSDLEAGKNLPMIYGDPPPEVIGIPLEDLDPYYSNKKTFIVLNKGKAIFRFSATPALYLLSPFSVVRRGAIKVLIHALFSMFIMITILTNCVFMTMSDPPPWSKNVEYTFTGIYTFESLIKILARGFCVDDFTFLRDPWNWLDFSVIMMAYLTEFVDLGNISALRTFRVLRALKTITVIPGLKTIVGALIQSVKKLSDVMILTVFCLSVFALVGLQLFMGNLRQKCVRWPPPFNDTNTTWYSNDTWYGNDTWYGNEMWYGNDSWYANDTWNSHASWATNDTFDWDAYISDEGNFYFLEGSNDALLCGNSSDAGHCPEGYECIKTGRNPNYGYTSYDTFSWAFLALFRLMTQDYWENLFQLTLRAAGKTYMIFFVVIIFLGSFYLINLILAVVAMAYAEQNEATLAEDKEKEEEFQQMLEKFKKHQEELEKAKAAQALEGGEADGDPAHGKDCNGSLDTSQGEKGAPRQSSSGDSGISDAMEELEEAHQKCPPWWYKCAHKVLIWNCCAPWLKFKNIIHLIVMDPFVDLGITICIVLNTLFMAMEHYPMTEHFDNVLTVGNLVFTGIFTAEMVLKLIAMDPYEYFQQGWNIFDSIIVTLSLVELGLANVQGLSVLRSFRLLRVFKLAKSWPTLNMLIKIIGNSVGALGNLTLVLAIIVFIFAVVGMQLFGKSYKECVCKIALDCNLPRWHMHDFFHSFLIVFRILCGEWIETMWDCMEVAGQAMCLTVFLMVMVIGNLVVLNLFLALLLSSFSADSLAASDEDGEMNNLQIAIGRIKLGIGFAKAFLLGLLHGKILSPKDIMLSLGEADGAGEAGEAGETAPEDEKKEPPEEDLKKDNHILNHMGLADGPPSSLELDHLNFINNPYLTIQVPIASEESDLEMPTEEETDTFSEPEDSKKPPQPLYDGNSSVCSTADYKPPEEDPEEQAEENPEGEQPEECFTEACVQRWPCLYVDISQGRGKKWWTLRRACFKIVEHNWFETFIVFMILLSSGALAFEDIYIEQRRVIRTILEYADKVFTYIFIMEMLLKWVAYGFKVYFTNAWCWLDFLIVDVSIISLVANWLGYSELGPIKSLRTLRALRPLRALSRFEGMRVVVNALLGAIPSIMNVLLVCLIFWLIFSIMGVNLFAGKFYYCINTTTSERFDISEVNNKSECESLMHTGQVRWLNVKVNYDNVGLGYLSLLQVATFKGWMDIMYAAVDSREKEEQPQYEVNLYMYLYFVIFIIFGSFFTLNLFIGVIIDNFNQQKKKLGGKDIFMTEEQKKYYNAMKKLGSKKPQKPIPRPQNKIQGMVYDLVTKQAFDITIMILICLNMVTMMVETDNQSQLKVDILYNINMIFIIIFTGECVLKMLALRQYYFTVGWNIFDFVVVILSIVGLALSDLIQKYFVSPTLFRVIRLARIGRVLRLIRGAKGIRTLLFALMMSLPALFNIGLLLFLVMFIYSIFGMSNFAYVKKESGIDDMFNFETFGNSIICLFEITTSAGWDGLLNPILNSGPPDCDPNLENPGTSVKGDCGNPSIGICFFCSYIIISFLIVVNMYIAIILENFNVATEESSEPLGEDDFEMFYETWEKFDPDATQFIAYSRLSDFVDTLQEPLRIAKPNKIKLITLDLPMVPGDKIHCLDILFALTKEVLGDSGEMDALKQTMEEKFMAANPSKVSYEPITTTLKRKHEEVCAIKIQRAYRRHLLQRSMKQASYMYRHSHDGSGDDAPEKEGLLANTMSKMYGHENGNSSSPSPEEKGEAGDAGPTMGLMPISPSDTAWPPAPPPGQTVRPGVKESLV |
| 4890 | sp|O35413|SRBS2\_RAT | MNTDSGGCARKRAAMSVTLTSVKRVQSSPNLLAAGRESHSPDSAWRSYNGRNPETLNGDATYSSLAAKGFRSVRPNLQDKKSPTQSHITINGNSGGAVSPVSYYQRPFSPSAYSLPASLNSSIIMPHGRSLDSAETYSQHAQSLDGTMGSSIPLYRSSEEEKRVTVIKAPHYPGIGPVDESGIPTAIRTTVDRPKDWYKTMFKQIHMVHKPDEDTDMYNTPYTYNAGLYNSPYSAQSHPAAKTQTYRPLSKSHSDNGTDAFKEATSPVPPPHVPPRPRDQSSTEKHDWDPPDRKVDTRKFRSEPRSIFEYEPGKSSILQHERPVSVYQSSIDRSLERPSSSASMAGDFRKRRKSEPAVGPPRGLGDHSSSRTSPGRADLPGSSSTFTTSFISSSPSSPSRAQGGDDSKMCPPLCSYSGLNGSPSSELECCGAYRRHLDVPQDSQRAITFKNGWQMARQNAEIWSSTEEAVSPKIKSRSCDDLLNDDCGSFPDPKTKSESMGSLLCDEGSKESDPMTWTSPYIPEVCGNSRSRLKHRSAHNAPGFLKMYKKMHRINRKDLMNSEVICSVKSRILQYEKEQQHRGLLHGWSQSSTEEVPRDVVPTRISEFEKLIQKSKSMPNLGDEMLSPVTLEPPQNGLCPKRRFSIESLLEEETQVRHPSQGQRSCKSNTLVPIHIEVTSDEQPRTHMEFSDSDQDGVVSDHSDNVHVERSSFCSESDFDHFSFTSSESFYGSSHHHHHHHHHHGHFISSCKGRCPASYTRFTTMLKHERAKHENIDRPRRQDMDPGLSKLAFLVSPVPFRRKKVLTPQKQTEQAKCKASVVEALDSALKDICDQIKAEKRRGSLPDNSILHRLISELLPQIPKRNSSLNALKRSPMHQPFHPLPQDGAIHCPLYQNDCGRMPHSASFPDVDTTSSYHAQDYGSVLSLQDHESPRSYSSTLTDLGRSVSRERRGTPEKEVKLPAKAVYDFKAQTSKELSFKKGDTVYILRKIDQNWYEGEHHGRVGIFPISYVEKLTPPEKAQPARPPPPVQPGEIGEAIAKYNFNADTNVELSLRKGDRIILLKRVDQNWYEGKIPGTNRQGIFPVSYVEVVKRNTKGSEDYPDPPLPHSYSSDRIYSLSSNKPQRPVFSHENIQGGGEPFQALYNYTPRNEDELELRESDVVDVMEKCDDGWFVGTSRRTKFFGTFPGNYVKRL |
| 4891 | sp|Q52KF3|SPIR1\_MOUSE | MANTVEADGSKDEGYEAADEGPEDEDGEKRSISAIRSYQDVMKICAAHLPTESEAPNHYQAVCRALFAETMELHTFLTKIKSAKENLKKIQEMEKGDESSTDLEDLKNADWARFWVQVMRDLRNGVKLKKVQQRQYNPLPIEYQLTPYEMLMDDIRCKRYTLRKVMVNGDVPPRLKKSAHEVILDFIRSRPPLNPVSARKLKPTPPRPRSLHERILEEIKAERKLRPVSPEEIRRSRLVRPLSMSHSFDLSDVTTPESPKNVGESSMVNGGLTSQTKENGLSAAQQGSAQRKRLLKAPTLAELDSSDSEEEKSLHKSTSSSSASPSLYEDPVLEAMCSRKKPPKFLPISSTPQPERRQPPQRRHSIEKETPTNVRQFLPPSRQSSRSLEEFCYPVECLALTVEEVMHIRQVLVKAELEKYQQYKDVYTALKKGKLCFCCRTRRFSFFTWSYTCQFCKRPVCSQCCKKMRLPSKPYSTLPIFSLGPSALQRGESCSRSEKPSTSHHRPLRSIARFSTKSRSVDKSDEELQFPKELMEDWSTMEVCVDCKKFISEIISSSRRSLVLANKRARLKRKTQSFYMSSAGPSEYCPSERTINEI |
| 4892 | sp|Q62245|SOS1\_MOUSE | MQAQQLPYEFFSEENAPKWRGLLVPALKKVQGQVHPTLESNDDALQYVEELILQLLNMLCQAQPRSASDVEERVQKSFPHPIDKWAIADAQSAIEKRKRRNPLSLPAERIHHLLREVLGYKIDHQVSVYIVAVLEYISADILKLVGNYVRNIRHYEITKQDIKVAMCADKVLMDMFHQDVEDINILSLTDEEPSTSGEQTYYDLVKAFMAEIRQYIRELNLIIKVFREPFVSNSKLFSSNDVENIFSRIVDIHELSVKLLGHIEDTVEMTDEGSPHPLVGSCFEDLAEELAFDPYESYARDILRPGFHGHFLSQLSKPGAALYLQSIGEGFKEAVQYVLPRLLLAPVYHCLHYFELLKQLEEKSEDQEDKECMKQAITALLNVQSGMEKICSKSLAKRRLSESACRFYSQQMKGKQLAIKKMNEIQKNIDGWEGKDIGQCCNEFIMEGTLTRVGAKHERHIFLFDGLMICCKSNHGQPRLPGASSAEYRLKEKFFMRKVQINDKDDTSEYKHAFEIILKDGNSVIFSAKSAEEKNNWMAALISLQYRSTLERMLDVTVLQEEKEEQMRLPSAEVYRFAEPDSEENILFEENVQPKAGIPIIKAGTVLKLIERLTYHMYADPNFVRTFLTTYRSFCRPQELLSLLIERFEIPEPEPTEADRIAIENGDQPLSAELKRFRKEYIQPVQLRVLNVCRHWVEHHFYDFERDADLLQRMEEFIGTVRGKAMKKWVESITKIIQRKKIARDNGPGHNITFQSSPPTVEWHISRPGHIETFDLLTLHPIEIARQLTLLESDLYRAVQPSELVGSVWTKEDKEINSPNLLKMIRHTTNLTLWFEKCIVETENLEERVAVVSRIIEILQVFQELNNFNGVLEVVSAMNSSPVYRLDHTFEQIPSRQKKILEEAHELSEDHYKKYLAKLRSINPPCVPFFGIYLTNILKTEEGNPEVLRRHGKELINFSKRRRVAEITGEIQQYQNQPYCLRVEPDIKRFFENLNPMGNSMEKEFTDYLFNKSLEIEPRHPKPLPRFPKKYSYPLKSPGVRPSNPRPGTMRHPTPLQQEPRKISYSRIPESETESTASAPNSPRTPLTPPPASGTSSNTDVCSVFDSDHSASPFHSRSASVSSISLSKGTDEVPVPPPVPPRRRPESAPAESSPSKIMSKHLDSPPAIPPRQPTSKAYSPRYSISDRTSISDPPESPPLLPPREPVRTPDVFSSSPLHLQPPPLGKKSDHGNAFFPNSPSPFTPPPPQTPSPHGTRRHLPSPPLTQEMDLHSIAGPPVPPRQSTSQLIPKLPPKTYKREHTHPSMHRDGPPLLENAHSS |
| 4893 | sp|P00442|SODC\_BOVIN | MATKAVCVLKGDGPVQGTIHFEAKGDTVVVTGSITGLTEGDHGFHVHQFGDNTQGCTSAGPHFNPLSKKHGGPKDEERHVGDLGNVTADKNGVAIVDIVDPLISLSGEYSIIGRTMVVHEKPDDLGRGGNEESTKTGNAGSRLACGVIGIAK |
| 4894 | sp|Q12772|SRBP2\_HUMAN | MDDSGELGGLETMETLTELGDELTLGDIDEMLQFVSNQVGEFPDLFSEQLCSSFPGSGGSGSSSGSSGSSSSSSNGRGSSSGAVDPSVQRSFTQVTLPSFSPSAASPQAPTLQVKVSPTSVPTTPRATPILQPRPQPQPQPQTQLQQQTVMITPTFSTTPQTRIIQQPLIYQNAATSFQVLQPQVQSLVTSSQVQPVTIQQQVQTVQAQRVLTQTANGTLQTLAPATVQTVAAPQVQQVPVLVQPQIIKTDSLVLTTLKTDGSPVMAAVQNPALTALTTPIQTAALQVPTLVGSSGTILTTMPVMMGQEKVPIKQVPGGVKQLEPPKEGERRTTHNIIEKRYRSSINDKIIELKDLVMGTDAKMHKSGVLRKAIDYIKYLQQVNHKLRQENMVLKLANQKNKLLKGIDLGSLVDNEVDLKIEDFNQNVLLMSPPASDSGSQAGFSPYSIDSEPGSPLLDDAKVKDEPDSPPVALGMVDRSRILLCVLTFLCLSFNPLTSLLQWGGAHDSDQHPHSGSGRSVLSFESGSGGWFDWMMPTLLLWLVNGVIVLSVFVKLLVHGEPVIRPHSRSSVTFWRHRKQADLDLARGDFAAAAGNLQTCLAVLGRALPTSRLDLACSLSWNVIRYSLQKLRLVRWLLKKVFQCRRATPATEAGFEDEAKTSARDAALAYHRLHQLHITGKLPAGSACSDVHMALCAVNLAECAEEKIPPSTLVEIHLTAAMGLKTRCGGKLGFLASYFLSRAQSLCGPEHSAVPDSLRWLCHPLGQKFFMERSWSVKSAAKESLYCAQRNPADPIAQVHQAFCKNLLERAIESLVKPQAKKKAGDQEEESCEFSSALEYLKLLHSFVDSVGVMSPPLSRSSVLKSALGPDIICRWWTSAITVAISWLQGDDAAVRSHFTKVERIPKALEVTESPLVKAIFHACRAMHASLPGKADGQQSSFCHCERASGHLWSSLNVSGATSDPALNHVVQLLTCDLLLSLRTALWQKQASASQAVGETYHASGAELAGFQRDLGSLRRLAHSFRPAYRKVFLHEATVRLMAGASPTRTHQLLEHSLRRRTTQSTKHGEVDAWPGQRERATAILLACRHLPLSFLSSPGQRAVLLAEAARTLEKVGDRRSCNDCQQMIVKLGGGTAIAAS |
| 4895 | sp|P05480|SRC\_MOUSE | MGSNKSKPKDASQRRRSLEPSENVHGAGGAFPASQTPSKPASADGHRGPSAAFVPPAAEPKLFGGFNSSDTVTSPQRAGPLAGGVTTFVALYDYESRTETDLSFKKGERLQIVNNTRKVDVREGDWWLAHSLSTGQTGYIPSNYVAPSDSIQAEEWYFGKITRRESERLLLNAENPRGTFLVRESETTKGAYCLSVSDFDNAKGLNVKHYKIRKLDSGGFYITSRTQFNSLQQLVAYYSKHADGLCHRLTTVCPTSKPQTQGLAKDAWEIPRESLRLEVKLGQGCFGEVWMGTWNGTTRVAIKTLKPGTMSPEAFLQEAQVMKKLRHEKLVQLYAVVSEEPIYIVTEYMNKGSLLDFLKGETGKYLRLPQLVDMSAQIASGMAYVERMNYVHRDLRAANILVGENLVCKVADFGLARLIEDNEYTARQGAKFPIKWTAPEAALYGRFTIKSDVWSFGILLTELTTKGRVPYPGMVNREVLDQVERGYRMPCPPECPESLHDLMCQCWRKEPEERPTFEYLQAFLEDYFTSTEPQYQPGENL |
| 4896 | sp|Q9UNH7|SNX6\_HUMAN | MMEGLDDGPDFLSEEDRGLKAINVDLQSDAALQVDISDALSERDKVKFTVHTKSSLPNFKQNEFSVVRQHEEFIWLHDSFVENEDYAGYIIPPAPPRPDFDASREKLQKLGEGEGSMTKEEFTKMKQELEAEYLAIFKKTVAMHEVFLCRVAAHPILRRDLNFHVFLEYNQDLSVRGKNKKEKLEDFFKNMVKSADGVIVSGVKDVDDFFEHERTFLLEYHNRVKDASAKSDRMTRSHKSAADDYNRIGSSLYALGTQDSTDICKFFLKVSELFDKTRKIEARVSADEDLKLSDLLKYYLRESQAAKDLLYRRSRSLVDYENANKALDKARAKNKDVLQAETSQQLCCQKFEKISESAKQELIDFKTRRVAAFRKNLVELAELELKHAKGNLQLLQNCLAVLNGDT |
| 4897 | sp|Q02446|SP4\_HUMAN | MSDQKKEEEEEAAAAAAMATEGGKTSEPENNNKKPKTSGSQDSQPSPLALLAATCSKIGTPGENQATGQQQIIIDPSQGLVQLQNQPQQLELVTTQLAGNAWQLVASTPPASKENNVSQPASSSSSSSSSNNGSASPTKTKSGNSSTPGQFQVIQVQNPSGSVQYQVIPQLQTVEGQQIQINPTSSSSLQDLQGQIQLISAGNNQAILTAANRTASGNILAQNLANQTVPVQIRPGVSIPLQLQTLPGTQAQVVTTLPINIGGVTLALPVINNVAAGGGTGQVGQPAATADSGTSNGNQLVSTPTNTTTSASTMPESPSSSTTCTTTASTSLTSSDTLVSSADTGQYASTSASSSERTIEESQTPAATESEAQSSSQLQPNGMQNAQDQSNSLQQVQIVGQPILQQIQIQQPQQQIIQAIPPQSFQLQSGQTIQTIQQQPLQNVQLQAVNPTQVLIRAPTLTPSGQISWQTVQVQNIQSLSNLQVQNAGLSQQLTITPVSSSGGTTLAQIAPVAVAGAPITLNTAQLASVPNLQTVSVANLGAAGVQVQGVPVTITSVAGQQQGQDGVKVQQATIAPVTVAVGGIANATIGAVSPDQLTQVHLQQGQQTSDQEVQPGKRLRRVACSCPNCREGEGRGSNEPGKKKQHICHIEGCGKVYGKTSHLRAHLRWHTGERPFICNWMFCGKRFTRSDELQRHRRTHTGEKRFECPECSKRFMRSDHLSKHVKTHQNKKGGGTALAIVTSGELDSSVTEVLGSPRIVTVAAISQDSNPATPNVSTNMEEF |
| 4898 | sp|O70494|SP3\_MOUSE | MTAPEKPVKQEEMAALDVDGGGGGGGHGEYLQQQQQQQQQHGNGAAAAAAQDTQPSPLALLAATCSKIGPPSPGDDDEEAAVAAAAGVPAAAAGATGDLASAQLGGAPNRWEVLSATPTTIKDEAGNLVQIPGAATSSGQYVLPLQNLQNQQIFSVAPGSDSSNGTVSNVQYQVIPQIQSTDAQQVQIGFTGSSDNGGINQENSQIQIIPGSNQTLLASGTPPANIQNLIPQTGQVQVQGVAIGGSSFPGQTQVVANVPLGLPGNITFVPINSVDLDSLGLSGSSQTMTAGINADGHLINTGQAMDSSDNSERTGERVSPDVNETNADTDLFVPTSSSSQLPVTIDSTGILQQNTNSLTTTSGQVHSSDLQGNYIQSPVSEETQAQNIQVSTAQPVVQHLQLQDSQQPTSQAQIVQGITPQTIHGVQASGQNISQQALQNLQLQLNPGTFLIQAQTVTPSGQITWQTFQVQGVQNLQNLQIQNTAAQQITLTPVQTLTLGQVAAGGALTSTPVSLSTGQLPNLQTVTVNSIDSTGIQLHPGENADSPADIRIKEEEPDPEEWQLSGDSTLNTNDLTHLRVQVVDEEGDQQHQEGKRLRRVACTCPNCKEGGGRGTNLGKKKQHICHIPGCGKVYGKTSHLRAHLRWHSGERPFICNWMFCGKRFTRSDELQRHRRTHTGEKKFVCPECSKRFMRSDHLAKHIKTHQNKKVIHSSSTVLASVEAGRDDALITAGGTTLILANIQQGSVSGIGTVNTSATSNQDILTNTEIPLQLVTVSGNETME |
| 4899 | sp|O54781|SRPK2\_MOUSE | MSVNSEKSSSSERPEPQQKAPLVPPPPPPPPPPPLPDPAPPEPEEEILGSDDEEQEDPADYCKGGYHPVKIGDLFNGRYHVIRKLGWGHFSTVWLCWDMQGKRFVAMKVVKSAQHYTETALDEIKLLKCVRESDPSDPNKDMVVQLIDDFKISGMNGIHVCMVFEVLGHHLLKWIIKSNYQGLPVRCVKSIIRQVLQGLDYLHSKCKIIHTDIKPENILMCVDDAYVRRMAAEATEWQKAGAPPPSGSAVSTAPQQKPIGKISKNKKKKLKKKQKRQAELLEKRLQEIEELEREAERKILEENITSAEASGEQDGEYQPEVTLKAADLEDTTEEETAKDNGEVEDQEEKEDAEKENAEKDEDDVEQELANLDPTWVESPKANGHIENGPFSLEQQLEDEEDDEDDCANPEEYNLDEPNAESDYTYSSSYEQFNGELPNGQHKTSEFPTPLFSGPLEPVACGSVISEGSPLTEQEESSPSHDRSRTVSASSTGDLPKTKTRAADLLVNPLDPRNADKIRVKIADLGNACWVHKHFTEDIQTRQYRSIEVLIGAGYSTPADIWSTACMAFELATGDYLFEPHSGEDYSRDEDHIAHIIELLGSIPRHFALSGKYSREFFNRRGELRHITKLKPWSLFDVLVEKYGWPHEDAAQFTDFLIPMLEMVPEKRASAGECLRHPWLNS |
| 4900 | sp|P13609|SRGN\_MOUSE | MQVPVGSRLVLALAFVLVWGSSVQGYPARRARYQWVRCKPNGFFANCIEEKGPQFDLIDESNNIGPPMNNPVLMEGPSKDFISNYDDYGSGSGSGSGSGSGSGSGSGSGFLGDMEWEYQPTDESNIVYFNYKPFDRILTEQNQDQPEDDFII |
| 4901 | sp|Q9SWA6|SNI1\_ARATH | MSKETKGNNNTSRVMSGYGGSLEANTLAMIDSTGAKDSRDANEDRLQYLEAVRAASLVPENGIPPTNKMYQAIFRILRFGKTLELITASFQLLTQLHQRFPWVYVSDSADQLDIVDEAWSPFNFGSDVDSDEKDLSVRSLFLQQLIQNMNKRVNESEESDLKILGNMFLFKYLAHVLKLDFTPRNQVYEETMNWSLLKESFLNLLLASRKVNFKLLMKDYLSTMCASIDADEKSISLVELHKDMLTAMKELLVMIMELDTSKKKADLEGITSRGDGVRTPAMEIILDELTYDGYLLSKFLQVFDDPKWKLEIVLQYLTKYIPKPVVRTRRTTVPQAEDSKTLNGILKTFSNGTNPKNITKKIGPDIVQILIGHAFLARLTFSDPHEGDSISEICSSIISAFTSLKRVDQKIEILPFGKEVLFTAGMVLKAKA |
| 4902 | sp|F1QQI2|SPXN1\_DANRE | MKDLRTLAAYALALLLLATFVSHSWSAPKGSFQRRNWTPQAMLYLKGTQGRRFVSEDRNEGDLYDTIRLESRSQNTENLSISKAAAFLLNILQQARDEDEPY |
| 4903 | sp|Q7KZ85|SPT6H\_HUMAN | MSDFVESEAEESEEEYNDEGEVVPRVTKKFVEEEDDDEEEEEENLDDQDEQGNLKGFINDDDDEDEGEEDEGSDSGDSEDDVGHKKRKRTSFDDRLEDDDFDLIEENLGVKVKRGQKYRRVKKMSDDEDDDEEEYGKEEHEKEAIAEEIFQDGEGEEGQEAMEAPMAPPEEEEEDDEESDIDDFIVDDDGQPLKKPKWRKKLPGYTDAALQEAQEIFGVDFDYDEFEKYNEYDEELEEEYEYEDDEAEGEIRVRPKKTTKKRVSRRSIFEMYEPSELESSHLTDQDNEIRATDLPERFQLRSIPVKGAEDDELEEEADWIYRNAFATPTISLQESCDYLDRGQPASSFSRKGPSTIQKIKEALGFMRNQHFEVPFIAFYRKEYVEPELHINDLWRVWQWDEKWTQLRIRKENLTRLFEKMQAYQYEQISADPDKPLADGIRALDTTDMERLKDVQSMDELKDVYNHFLLYYGRDIPKMQNAAKASRKKLKRVREEGDEEGEGDEAEDEEQRGPELKQASRRDMYTICQSAGLDGLAKKFGLTPEQFGENLRDSYQRHETEQFPAEPLELAKDYVCSQFPTPEAVLEGARYMVALQIAREPLVRQVLRQTFQERAKLNITPTKKGRKDVDEAHYAYSFKYLKNKPVKELRDDQFLKICLAEDEGLLTTDISIDLKGVEGYGNDQTYFEEIKQFYYRDEFSHQVQEWNRQRTMAIERALQQFLYVQMAKELKNKLLAEAKEYVIKACSRKLYNWLRVAPYRPDQQVEEDDDFMDENQGKGIRVLGIAFSSARDHPVFCALVNGEGEVTDFLRLPHFTKRRTAWREEEREKKAQDIETLKKFLLNKKPHVVTVAGENRDAQMLIEDVKRIVHELDQGQQLSSIGVELVDNELAILYMNSKKSEAEFRDYPPVLRQAVSLARRIQDPLIEFAQVCSSDEDILCLKFHPLQEHVVKEELLNALYCEFINRVNEVGVDVNRAIAHPYSQALIQYVCGLGPRKGTHLLKILKQNNTRLESRTQLVTMCHMGPKVFMNCAGFLKIDTASLGDSTDSYIEVLDGSRVHPETYEWARKMAVDALEYDESAEDANPAGALEEILENPERLKDLDLDAFAEELERQGYGDKHITLYDIRAELSCRYKDLRTAYRSPNTEEIFNMLTKETPETFYIGKLIICNVTGIAHRRPQGESYDQAIRNDETGLWQCPFCQQDNFPELSEVWNHFDSGSCPGQAIGVKTRLDNGVTGFIPTKFLSDKVVKRPEERVKVGMTVHCRIMKIDIEKFSADLTCRTSDLMDRNNEWKLPKDTYYDFDAEAADHKQEEDMKRKQQRTTYIKRVIAHPSFHNINFKQAEKMMETMDQGDVIIRPSSKGENHLTVTWKVSDGIYQHVDVREEGKENAFSLGATLWINSEEFEDLDEIVARYVQPMASFARDLLNHKYYQDCSGGDRKKLEELLIKTKKEKPTFIPYFICACKELPGKFLLGYQPRGKPRIEYVTVTPEGFRYRGQIFPTVNGLFRWFKDHYQDPVPGITPSSSSRTRTPASINATPANINLADLTRAVNALPQNMTSQMFSAIAAVTGQGQNPNATPAQWASSQYGYGGSGGGSSAYHVFPTPAQQPVATPLMTPSYSYTTPSQPITTPQYHQLQASTTPQSAQAQPQPSSSSRQRQQQPKSNSHAAIDWGKMAEQWLQEKEAERRKQKQRLTPRPSPSPMIESTPMSIAGDATPLLDEMDR |
| 4904 | sp|Q5SQN1|SNP47\_HUMAN | MRAARRGLHCAGAERPRRRGRLWDSSGVPQRQKRPGPWRTQTQEQMSRDVCIHTWPCTYYLEPKRRWVTGQLSLTSLSLRFMTDSTGEILVSFPLSSIVEIKKEASHFIFSSITILEKGHAKHWFSSLRPSRNVVFSIIEHFWRELLLSQPGAVADASVPRTRGEELTGLMAGSQKRLEDTARVLHHQGQQLDSVMRGLDKMESDLEVADRLLTELESPAWWPFSSKLWKTPPETKPREDVSMTSCEPFGKEGILIKIPAVISHRTESHVKPGRLTVLVSGLEIHDSSSLLMHRFEREDVDDIKVHSPYEISIRQRFIGKPDMAYRLISAKMPEVIPILEVQFSKKMELLEDALVLRSARTSSPAEKSCSVWHAASGLMGRTLHREPPAGDQEGTALHLQTSLPALSEADTQELTQILRRMKGLALEAESELERQDEALDGVAAAVDRATLTIDKHNRRMKRLT |
| 4905 | sp|Q8R3P9|SLF1\_MOUSE | MEDSATKHIIQMTGFKMEEKEALVKLLLKLDCTFIKSEKYKNCTHLIAERLCKSEKFLAACAAGKWVLTKDYIIHSAKSGRWLDETTYEWGYKIEKDSHYSPQMQSAPKRWREELKRTGAPGAFHRWKVVLLVRADKRSDSLVRVLEAGKANVILPKNSPSGITHVIASNARISAEREQENFKAPFYPIQYLGDFLLEKEIQNDEHSQISPAWTKYNNQEKGNDVGFPEMKGAGENMYRTQNKMENHNKNVSDRFVLSEHHKKKFKDFRKDIRSVKKRNTLRRHGLENQKETKKKDKNIQRSYILRKKNKKEGYCKTDDAHDTIRSMLKKRGHYREQKEMKNPLLTDGTKESKTKDVKTNMNLIEIKNALKKQIYKDIYRAQAVRYNCIRVDKQPVYNVEVKNSEFPRGILNLIENLIEGQFFKEAIEELSSLQAHYIPPVCLLHAILENVLQDKIDTFSGRYFHILSALLHLHPPWKSPAMLKYYLELFQCPTCMKGAWDFTEVLIRSCLFNEDFCHQISENISTKVVNLTLLKFFFNLLEGEVRHLSQKLCDWSDSQSLKVTEKAILHEIFWSGSETSGLLTKPVNMLLEWTIYSHKEKCKSNDVFKHELSYLLTGILGAAVDYWIFLGIQMGRNVIRHMSDDLGSYISLSCDDFSSKELEIFICSFSSSWLQMFVAEAIFKKLCLQGPTSTCTEPLSLQKIIDSYLPILGKMDIHGAGKMQSPKKLCQRPCLESQRALLMLNGAKRKQAEGRPELLELNRAKCSSSLKKLKKKSEELSCSKENCPSLVTKMNFHKTNLKGETALHRVCIKNQVEKLIILLSLPGIDINVKDNAGWTPLHEACNYGNTECVQEILQRCPEVDLLTQVDGVTPLHDALSNGHVEIGKLLLQRGGPELLQQRNSKGELPLDYVLSPKDKEELFAITNIDDTVDNFHAKTQKHFYHQQLEFGSFLLSRMLINFCSIFDLSSEFILAFKGLGHLNELLMACNSDTEASNAHTDWLLDVYARNIKTLKKLPSVLKELPENLNVCPGVHTEALLVTLKMMCQSITELS |
| 4906 | sp|Q68D06|SLN13\_HUMAN | MEANHCSLGVYPSYPDLVIDVGEVTLGEENRKKLQKTQRDQERARVIRAACALLNSGGGVIQMEMANRDERPTEMGLDLEESLRKLIQYPYLQAFFETKQHGRCFYIFVKSWSGDPFLKDGSFNSRICSLSSSLYCRSGTSVLHMNSRQAFDFLKTKERQSKYNLINEGSPPSKIMKAVYQNISESNPAYEVFQTDTIEYGEILSFPESPSIEFKQFSTKHIQQYVENIIPEYISAFANTEGGYLFIGVDDKSRKVLGCAKEQVDPDSLKNVIARAISKLPIVHFCSSKPRVEYSTKIVEVFCGKELYGYLCVIKVKAFCCVVFSEAPKSWMVREKYIRPLTTEEWVEKMMDADPEFPPDFAEAFESQLSLSDSPSLCRPVYSKKGLEHKADLQQHLFPVPPGHLECTPESLWKELSLQHEGLKELIHKQMRPFSQGIVILSRSWAVDLNLQEKPGVICDALLIAQNSTPILYTILREQDAEGQDYCTRTAFTLKQKLVNMGGYTGKVCVRAKVLCLSPESSAEALEAAVSPMDYPASYSLAGTQHMEALLQSLVIVLLGFRSLLSDQLGCEVLNLLTAQQYEIFSRSLRKNRELFVHGLPGSGKTIMAMKIMEKIRNVFHCEAHRILYVCENQPLRNFISDRNICRAETRETFLREKFEHIQHIVIDEAQNFRTEDGDWYRKAKTITQREKDCPGVLWIFLDYFQTSHLGHSGLPPLSAQYPREELTRVVRNADEIAEYIQQEMQLIIENPPINIPHGYLAILSEAKWVPGVPGNTKIIKNFTLEQIVTYVADTCRCFFERGYSPKDVAVLVSTVTEVEQYQSKLLKAMRKKMVVQLSDACDMLGVHIVLDSVRRFSGLERSIVFGIHPRTADPAILPNILICLASRAKQHLYIFL |
| 4907 | sp|Q64337|SQSTM\_MOUSE | MASFTVKAYLLGKEEATREIRRFSFCFSPEPEAEAQAAAGPGPCERLLSRVAVLFPTLRPGGFQAHYRDEDGDLVAFSSDEELTMAMSYVKDDIFRIYIKEKKECRREHRPPCAQEAPRNMVHPNVICDGCNGPVVGTRYKCSVCPDYDLCSVCEGKGLHREHSKLIFPNPFGHLSDSFSHSRWLRKLKHGHFGWPGWEMGPPGNWSPRPPRAGDGRPCPTAESASAPPEDPNVNFLKNVGESVAAALSPLGIEVDIDVEHGGKRSRLTPTTPESSSTGTEDKSNTQPSSCSSEVSKPDGAGEGPAQSLTEQMKKIALESVGQPEEQMESGNCSGGDDDWTHLSSKEVDPSTGELQSLQMPESEGPSSLDPSQEGPTGLKEAALYPHLPPEADPRLIESLSQMLSMGFSDEGGWLTRLLQTKNYDIGAALDTIQYSKHPPPL |
| 4908 | sp|P38889|SKN7\_YEAST | MSFSTINSNVNKTTGDSNNNTTENSSTADLLGMDLLQSGPRLMNTMQPNNSSDMLHINNKTNNVQQPAGNTNISSANAGAKAPANEFVRKLFRILENNEYPDIVTWTENGKSFVVLDTGKFTTHILPNHFKHSNFASFVRQLNKYDFHKVKRSPEERQRCKYGEQSWEFQHPEFRVHYGKGLDNIKRKIPAQRKVLLDESQKALLHFNSEGTNPNNPSGSLLNESTTELLLSNTVSKDAFGNLRRRVDKLQKELDMSKMESYATKVELQKLNSKYNTVIESLITFKTINENLLNNFNTLCSTLANNGIEVPIFGDNGNRNPTGNTNPATTTAIQSNNNTNNASPATSTVSLQLPNLPDQNSLTPNAQNNTVTLRKGFHVLLVEDDAVSIQLCSKFLRKYGCTVQVVSDGLSAISTLEKYRYDLVLMDIVMPNLDGATATSIVRSFDNETPIIAMTGNIMNQDLITYLQHGMNDILAKPFTRDDLHSILIRYLKDRIPLCEQQLPPRNSSPQTHSNTNTANSNPNTINEQSLAMLPQDNPSTTTPVTPGASISSAQHVQQGQQEQQHQIFHAQQQQQHHNAIANARSDVAIPNLEHEINTVPHSSMGSTPQLPQSTLQENQLS |
| 4909 | sp|P27638|SPK1\_SCHPO | MASATSTPTIADGNSNKESVATSRSPHTHDLNFELPEEYEMINLIGQGAYGVVCAALHKPSGLKVAVKKIHPFNHPVFCLRTLREIKLLRHFRHENIISILDILPPPSYQELEDVYIVQELMETDLYRVIRSQPLSDDHCQYFTYQILRALKAMHSAGVVHRDLKPSNLLLNANCDLKVADFGLARSTTAQGGNPGFMTEYVATRWYRAPEIMLSFREYSKAIDLWSTGCILAEMLSARPLFPGKDYHSQITLILNILGTPTMDDFSRIKSARARKYIKSLPFTPKVSFKALFPQASPDAIDLLEKLLTFNPDKRITAEEALKHPYVAAYHDASDEPTASPMPPNLVDLYCNKEDLEIPVLKALIFREVNFR |
| 4910 | sp|P61764|STXB1\_HUMAN | MAPIGLKAVVGEKIMHDVIKKVKKKGEWKVLVVDQLSMRMLSSCCKMTDIMTEGITIVEDINKRREPLPSLEAVYLITPSEKSVHSLISDFKDPPTAKYRAAHVFFTDSCPDALFNELVKSRAAKVIKTLTEINIAFLPYESQVYSLDSADSFQSFYSPHKAQMKNPILERLAEQIATLCATLKEYPAVRYRGEYKDNALLAQLIQDKLDAYKADDPTMGEGPDKARSQLLILDRGFDPSSPVLHELTFQAMSYDLLPIENDVYKYETSGIGEARVKEVLLDEDDDLWIALRHKHIAEVSQEVTRSLKDFSSSKRMNTGEKTTMRDLSQMLKKMPQYQKELSKYSTHLHLAEDCMKHYQGTVDKLCRVEQDLAMGTDAEGEKIKDPMRAIVPILLDANVSTYDKIRIILLYIFLKNGITEENLNKLIQHAQIPPEDSEIITNMAHLGVPIVTDSTLRRRSKPERKERISEQTYQLSRWTPIIKDIMEDTIEDKLDTKHYPYISTRSSASFSTTAVSARYGHWHKNKAPGEYRSGPRLIIFILGGVSLNEMRCAYEVTQANGKWEVLIGSTHILTPQKLLDTLKKLNKTDEEISS |
| 4911 | sp|Q9SG79|SUN2\_ARATH | MSASTVSITASPRTIRRTPVLSGEKKSNFDFPPSESHANAAIGESSAGTNKDLIRAEAAGERSNTYDVGPVTRKSGSTATGTNTTTTQRRTRKSQGNKIDRGKWKTVVRVFAKQFGALLLLVGLIQLIRKLTLKDSSLSSSNFPIETEMVLSELESRISAVDGLVKTTTKMMQVQVEFLDKKMDSESRALRQTIDSTSSVLHSELKKVESKTERLQVSVDELNAKPLVSREELERVYEELKKGKVGDSDVNIDKLRAYARDIVEKEIGKHVADGLGRVDYALASGGAFVMGHSDPFLVGNGRNWFGTSRRRVHSKAVKMLTPSFGEPGQCFPLKGSNGYVLVRLRAPIIPEAVTLEHVSKAVAYDRSSAPKDCRVSGWLGDIDMETETMPLLTEFSYDLDRSNAQTFDIADSAHSGLVNTVRLDFNSNHGSSSHTCIYRFRVHGRELDSVSVAHA |
| 4912 | sp|P50226|ST1A2\_HUMAN | MELIQDISRPPLEYVKGVPLIKYFAEALGPLQSFQARPDDLLISTYPKSGTTWVSQILDMIYQGGDLEKCHRAPIFMRVPFLEFKVPGIPSGMETLKNTPAPRLLKTHLPLALLPQTLLDQKVKVVYVARNAKDVAVSYYHFYHMAKVYPHPGTWESFLEKFMAGEVSYGSWYQHVQEWWELSRTHPVLYLFYEDMKENPKREIQKILEFVGRSLPEETVDLMVEHTSFKEMKKNPMTNYTTVRREFMDHSISPFMRKGMAGDWKTTFTVAQNERFDADYAKKMAGCSLSFRSEL |
| 4913 | sp|P52630|STAT2\_HUMAN | MAQWEMLQNLDSPFQDQLHQLYSHSLLPVDIRQYLAVWIEDQNWQEAALGSDDSKATMLFFHFLDQLNYECGRCSQDPESLLLQHNLRKFCRDIQPFSQDPTQLAEMIFNLLLEEKRILIQAQRAQLEQGEPVLETPVESQQHEIESRILDLRAMMEKLVKSISQLKDQQDVFCFRYKIQAKGKTPSLDPHQTKEQKILQETLNELDKRRKEVLDASKALLGRLTTLIELLLPKLEEWKAQQQKACIRAPIDHGLEQLETWFTAGAKLLFHLRQLLKELKGLSCLVSYQDDPLTKGVDLRNAQVTELLQRLLHRAFVVETQPCMPQTPHRPLILKTGSKFTVRTRLLVRLQEGNESLTVEVSIDRNPPQLQGFRKFNILTSNQKTLTPEKGQSQGLIWDFGYLTLVEQRSGGSGKGSNKGPLGVTEELHIISFTVKYTYQGLKQELKTDTLPVVIISNMNQLSIAWASVLWFNLLSPNLQNQQFFSNPPKAPWSLLGPALSWQFSSYVGRGLNSDQLSMLRNKLFGQNCRTEDPLLSWADFTKRESPPGKLPFWTWLDKILELVHDHLKDLWNDGRIMGFVSRSQERRLLKKTMSGTFLLRFSESSEGGITCSWVEHQDDDKVLIYSVQPYTKEVLQSLPLTEIIRHYQLLTEENIPENPLRFLYPRIPRDEAFGCYYQEKVNLQERRKYLKHRLIVVSNRQVDELQQPLELKPEPELESLELELGLVPEPELSLDLEPLLKAGLDLGPELESVLESTLEPVIEPTLCMVSQTVPEPDQGPVSQPVPEPDLPCDLRHLNTEPMEIFRNCVKIEEIMPNGDPLLAGQNTVDEVYVSRPSHFYTDGPLMPSDF |
| 4914 | sp|Q9BXA5|SUCR1\_HUMAN | MLGIMAWNATCKNWLAAEAALEKYYLSIFYGIEFVVGVLGNTIVVYGYIFSLKNWNSSNIYLFNLSVSDLAFLCTLPMLIRSYANGNWIYGDVLCISNRYVLHANLYTSILFLTFISIDRYLIIKYPFREHLLQKKEFAILISLAIWVLVTLELLPILPLINPVITDNGTTCNDFASSGDPNYNLIYSMCLTLLGFLIPLFVMCFFYYKIALFLKQRNRQVATALPLEKPLNLVIMAVVIFSVLFTPYHVMRNVRIASRLGSWKQYQCTQVVINSFYIVTRPLAFLNSVINPVFYFLLGDHFRDMLMNQLRHNFKSLTSFSRWAHELLLSFREK |
| 4915 | sp|P30936|SSR3\_RAT | MAAVTYPSSVPTTLDPGNASSAWPLDTSLGNASAGTSLAGLAVSGILISLVYLVVCVVGLLGNSLVIYVVLRHTSSPSVTSVYILNLALADELFMLGLPFLAAQNALSYWPFGSLMCRLVMAVDGINQFTSIFCLTVMSVDRYLAVVHPTRSARWRTAPVARMVSAAVWVASAVVVLPVVVFSGVPRGMSTCHMQWPEPAAAWRTAFIIYTAALGFFGPLLVICLCYLLIVVKVRSTTRRVRAPSCQWVQAPACQRRRRSERRVTRMVVAVVALFVLCWMPFYLLNIVNVVCPLPEEPAFFGLYFLVVALPYANSCANPILYGFLSYRFKQGFRRILLRPSRRVRSQEPGSGPPEKTEEEEDEEEEERREEEERRMQRGQEMNGRLSQIAQPGPSGQQQRPCTGTAKEQQLLPQEATAGDKASTLSHL |
| 4916 | sp|Q9FD10|SSEJ\_SALTY | MPLSVGQGYFTSSISSEKFNAIKESARLPELSLWEKIKAYFFTTHHAEALECIFNLYHHQELNLTPVQVRGAYIKLRALASQGCKEQFIIESQEHADKLIIKDDNGENILSIEVECHPEAFGLAKEINKSHPKPKNISLGDITRLVFFGDSLSDSLGRMFEKTHHILPSYGQYFGGRFTNGFTWTEFLSSPHFLGKEMLNFAEGGSTSASYSCFNCIGDFVSNTDRQVASYTPSHQDLAIFLLGANDYMTLHKDNVIMVVEQQIDDIEKIISGGVNNVLVMGIPDLSLTPYGKHSDEKRKLKDESIAHNALLKTNVEELKEKYPQHKICYYETADAFKVIMEAASNIGYDTENPYTHHGYVHVPGAKDPQLDICPQYVFNDLVHPTQEVHHCFAIMLESFIAHHYSTE |
| 4917 | sp|Q9Z108|STAU1\_MOUSE | MYKPVDPHSRMQSTYSYGMRGGAYPPRYFYPFPVPPLLYQVELSVGGQQFNGKGKMRPPVKHDAPARALRTLQSEPLPERLEVNGREAEEENLNKSEISQVFEIALKRNLPVNFEVARESGPPHMKNFVTRVSVGEFVGEGEGKSKKISKKNAARAVLEQLRRLPPLPAVERVKPRIKKKSQPTCKTAPDYGQGMNPISRLAQIQQAKKEKEPEYMLLTERGLPRRREFVMQVKVGHHTAEGVGTNKKVAKRNAAENMLEILGFKVPQAQPAKPALKSEEKTPVKKPGDGRKVTFFEPSPGDENGTSNKDEEFRMPYLSHQQLPAGILPMVPEVAQAVGVSQGHHTKDFTRAAPNPAKATVTAMIARELLYGGTSPTAETILKSNISSGHVPHGPRTRPSEQLYYLSRAQGFQVEYKDFPKNNKNECVSLINCSSQPPLVSHGIGKDVESCHDMAALNILKLLSELDQQSTEMPRTGNGPVSACGRC |
| 4918 | sp|P33242|STF1\_MOUSE | MDYSYDEDLDELCPVCGDKVSGYHYGLLTCESCKGFFKRTVQNNKHYTCTESQSCKIDKTQRKRCPFCRFQKCLTVGMRLEAVRADRMRGGRNKFGPMYKRDRALKQQKKAQIRANGFKLETGPPMGVPPPPPPPPDYMLPPSLHAPEPKALVSGPPSGPLGDFGAPSLPMAVPGPHGPLAGYLYPAFSNRTIKSEYPEPYASPPQQPGPPYSYPEPFSGGPNVPELILQLLQLEPEEDQVRARIVGCLQEPAKSRSDQPAPFSLLCRMADQTFISIVDWARRCMVFKELEVADQMTLLQNCWSELLVLDHIYRQVQYGKEDSILLVTGQEVELSTVAVQAGSLLHSLVLRAQELVLQLHALQLDRQEFVCLKFLILFSLDVKFLNNHSLVKDAQEKANAALLDYTLCHYPHCGDKFQQLLLCLVEVRALSMQAKEYLYHKHLGNEMPRNNLLIEMLQAKQT |
| 4919 | sp|Q16385|SSX2\_HUMAN | MNGDDAFARRPTVGAQIPEKIQKAFDDIAKYFSKEEWEKMKASEKIFYVYMKRKYEAMTKLGFKATLPPFMCNKRAEDFQGNDLDNDPNRGNQVERPQMTFGRLQGISPKIMPKKPAEEGNDSEEVPEASGPQNDGKELCPPGKPTTSEKIHERSGPKRGEHAWTHRLRERKQLVIYEEISDPEEDDE |
| 4920 | sp|Q9H7V2|SYNG1\_HUMAN | MDGIIEQKSMLVHSKISDAGKRNGLINTRNLMAESRDGLVSVYPAPQYQSHRVGASTVPASLDSSRSEPMQQLLDPNTLQQSVESRYRPNIILYSEGVLRSWGDGVAADCCETTFIEDRSPTKDSLEYPDGKFIDLSADDIKIHTLSYDVEEEEEFQELESDYSSDTESEDNFLMMPPRDHLGLSVFSMLCCFWPLGIAAFYLSHETNKAVAKGDLHQASTSSRRALFLAVLSITIGTGVYVGVAVALIAYLSKNNHL |
| 4921 | sp|P41252|SYIC\_HUMAN | MLQQVPENINFPAEEEKILEFWTEFNCFQECLKQSKHKPKFTFYDGPPFATGLPHYGHILAGTIKDIVTRYAHQSGFHVDRRFGWDCHGLPVEYEIDKTLGIRGPEDVAKMGITEYNNQCRAIVMRYSAEWKSTVSRLGRWIDFDNDYKTLYPQFMESVWWVFKQLYDKGLVYRGVKVMPFSTACNTPLSNFESHQNYKDVQDPSVFVTFPLEEDETVSLVAWTTTPWTLPSNLAVCVNPEMQYVKIKDVARGRLLILMEARLSALYKLESDYEILERFPGAYLKGKKYRPLFDYFLKCKENGAFTVLVDNYVKEEEGTGVVHQAPYFGAEDYRVCMDFNIIRKDSLPVCPVDASGCFTTEVTDFAGQYVKDADKSIIRTLKEQGRLLVATTFTHSYPFCWRSDTPLIYKAVPSWFVRVENMVDQLLRNNDLCYWVPELVREKRFGNWLKDARDWTISRNRYWGTPIPLWVSDDFEEVVCIGSVAELEELSGAKISDLHRESVDHLTIPSRCGKGSLHRISEVFDCWFESGSMPYAQVHYPFENKREFEDAFPADFIAEGIDQTRGWFYTLLVLATALFGQPPFKNVIVNGLVLASDGQKMSKRKKNYPDPVSIIQKYGADALRLYLINSPVVRAENLRFKEEGVRDVLKDVLLPWYNAYRFLIQNVLRLQKEEEIEFLYNENTVRESPNITDRWILSFMQSLIGFFETEMAAYRLYTVVPRLVKFVDILTNWYVRMNRRRLKGENGMEDCVMALETLFSVLLSLCRLMAPYTPFLTELMYQNLKVLIDPVSVQDKDTLSIHYLMLPRVREELIDKKTESAVSQMQSVIELGRVIRDRKTIPIKYPLKEIVVIHQDPEALKDIKSLEKYIIEELNVRKVTLSTDKNKYGIRLRAEPDHMVLGKRLKGAFKAVMTSIKQLSSEELEQFQKTGTIVVEGHELHDEDIRLMYTFDQATGGTAQFEAHSDAQALVLLDVTPDQSMVDEGMAREVINRIQKLRKKCNLVPTDEITVYYKAKSEGTYLNSVIESHTEFIFTTIKAPLKPYPVSPSDKVLIQEKTQLKGSELEITLTRGSSLPGPACAYVNLNICANGSEQGGVLLLENPKGDNRLDLLKLKSVVTSIFGVKNTELAVFHDETEIQNQTDLLSLSGKTLCVTAGSAPSLINSSSTLLCQYINLQLLNAKPQECLMGTVGTLLLENPLGQNGLTHQGLLYEAAKVFGLRSRKLKLFLNETQTQEITEDIPVKTLNMKTVYVSVLPTTADF |
| 4922 | sp|P52655|TF2AA\_HUMAN | MANSANTNTVPKLYRSVIEDVINDVRDIFLDDGVDEQVLMELKTLWENKLMQSRAVDGFHSEEQQLLLQVQQQHQPQQQQHHHHHHHQQAQPQQTVPQQAQTQQVLIPASQQATAPQVIVPDSKLIQHMNASNMSAAATAATLALPAGVTPVQQILTNSGQLLQVVRAANGAQYIFQPQQSVVLQQQVIPQMQPGGVQAPVIQQVLAPLPGGISPQTGVIIQPQQILFTGNKTQVIPTTVAAPTPAQAQITATGQQQPQAQPAQTQAPLVLQVDGTGDTSSEEDEDEEEDYDDDEEEDKEKDGAEDGQVEEEPLNSEDDVSDEEGQELFDTENVVVCQYDKIHRSKNKWKFHLKDGIMNLNGRDYIFSKAIGDAEW |
| 4923 | sp|H2L045|TENSH\_CAEEL | MAAAALCCASRKSNKYNNEAGYEVYTISEDQLRLKQKMKDRKEGVQVEYITSRLIVLSCTSETSERKFVESLLKASQQIQNAHNKHIRVWNVSQRRHDISSSLDAIPFGWPSETAPSLEKLCTICKNLDQWMLEHPLNIAVIFCKGGLERCAIVVNAFMRFNAISATDDSVDDRFSMQRFSERFLGPDGPPSYKRYLGYFSSLLSGRISVNSDPLYLHNIILTFFEPINVFLKIYERLVPVYQSKTVALNKSSKFEMDGSLKLRGDIFFKCIVAASSPGSSTRCLFTCQLNTCALELHPINSEGYSVVRLHKEELDLIFNDKKIDNRVTVELVVSHTSGPTTIATAAVQSVHSLLPRNNSYETFELAQDDETNRSRLEVEYSEIRKKSTKSSKSANPINNNQEEEMPVGPPVPPKPSTPIMNGERLGEYGVGGHIGNGDVVPERRGILPASLREKINQKKELEGRATPSIEPDLVGRDRYDKASRCFSYVPAKSMQEAFERPRRTSFSRAIEKRENSVENVSQEEVARTEIPQSYQQNDISTPAKWDEQVEDAKQSALLEELARAPSAMQHNYWGNGEVDNVQVVDQAQRAVITPTSTLQRRPKPPARSGSYRTLNDDAYCSDMDELCDPEYYLNYNSNTAPLPPPRRQEQHAGTRSVQLPRKKMNFDAVTDPLDDVLESTKRLGSAYSVGDVRGGQQQQQEQHNASNDFNFSNTLNNTPTDYRQHYRNRNCQSVTTPRNHHFSTPSREQEADAADTWLSGKLKKVRSKRDIDPDIVRRRTQEKMLLEELKDSAANNDENQHNLPNGHARGAGLQNIDPLAEFRREEERLRNTRSPYGEERWRGRMRGKPPTPPPRESSASPVNSLPRGTPAHHMDRQRHNQSVPLPMHHRQFDEDFDVNSLFNFSHDPRQQSTTLERGGRSLSRGARIQDAYYASQQDLSANNRFNSGQERVAAAIYRAETAHRDMYASGTINRAETPGRYFPENSAVLERSSTPSFPVSRATPLPFHPLLYNNGERGGSGHAAGGGGGGHNGYSTMNNRSASPRLFGGSSTLSRRSSVNSVDTSEIIHHHPLFVKDTSKYWYKPTISREQAINMLRDKPPGTFVVRDSNSFPGAFGLALKVSTPPPGVNPGDGSELVRHFLIEPSPKGVKLKGCNNEPVFGSLSALVYQHSITALALPTKLVLPDFDPAATPEHLSATQALLEQGAACNVVYVGSVDVESLTGNECVKRSIATCSQRAINGDSRAVSVHFKVSSQGVTLTDNTRKVFFRRHFNVQSVIFAGMDPIERRFENTRALGFHDGCIAQARLFAFVARIPSSSENACHVFAELEPEQPGSAVVNFINKVMLAQKNRS |
| 4924 | sp|P03001|TF3A\_XENLA | MAAKVASTSSEEAEGSLVTEGEMGEKALPVVYKRYICSFADCGAAYNKNWKLQAHLCKHTGEKPFPCKEEGCEKGFTSLHHLTRHSLTHTGEKNFTCDSDGCDLRFTTKANMKKHFNRFHNIKICVYVCHFENCGKAFKKHNQLKVHQFSHTQQLPYECPHEGCDKRFSLPSRLKRHEKVHAGYPCKKDDSCSFVGKTWTLYLKHVAECHQDLAVCDVCNRKFRHKDYLRDHQKTHEKERTVYLCPRDGCDRSYTTAFNLRSHIQSFHEEQRPFVCEHAGCGKCFAMKKSLERHSVVHDPEKRKLKEKCPRPKRSLASRLTGYIPPKSKEKNASVSGTEKTDSLVKNKPSGTETNGSLVLDKLTIQ |
| 4925 | sp|A2RTX5|SYTC2\_HUMAN | MAAEALAAEAVASRLERQEEDIRWLWSEVERLRDEQLNAPYSCQAEGPCLTREVAQLRAENCDLRHRLCSLRLCLAEERSRQATLESAELEAAQEAGAQPPPSQSQDKDMKKKKMKESEADSEVKHQPIFIKERLKLFEILKKDHQLLLAIYGKKGDTSNIITVRVADGQTVQGEVWKTTPYQVAAEISQELAESTVIAKVNGELWDLDRPLEGDSSLELLTFDNEEAQAVYWHSSAHILGEAMELYYGGHLCYGPPIENGFYYDMFIEDRAVSSTELSALENICKAIIKEKQPFERLEVSKEILLEMFKYNKFKCRILNEKVNTATTTVYRCGPLIDLCKGPHVRHTGKIKTIKIFKNSSTYWEGNPEMETLQRIYGISFPDNKMMRDWEKFQEEAKNRDHRKIGKEQELFFFHDLSPGSCFFLPRGAFIYNTLTDFIREEYHKRDFTEVLSPNMYNSKLWEASGHWQHYSENMFTFEIEKDTFALKPMNCPGHCLMFAHRPRSWREMPIRFADFGVLHRNELSGTLSGLTRVRRFQQDDAHIFCTVEQIEEEIKGCLQFLQSVYSTFGFSFQLNLSTRPENFLGEIEMWNEAEKQLQNSLMDFGEPWKMNPGDGAFYGPKIDIKIKDAIGRYHQCATIQLDFQLPIRFNLTYVSKDGDDKKRPVIIHRAILGSVERMIAILSENYGGKWPFWLSPRQVMVIPVGPTCEKYALQVSSEFFEEGFMADVDLDHSCTLNKKIRNAQLAQYNFILVVGEKEKIDNAVNVRTRDNKIHGEILVTSAIDKLKNLRKTRTLNAEEAF |
| 4926 | sp|Q9SPU7|TERT\_ARATH | MPRKPRHRVPEILWRLFGNRARNLNDAIVDLIPNRNIQPEQCRCRGQGCLGCSSDKPAFLLRSDDPIHYRKLLHRCFVVLHEQTPPLLDFSPTSWWSQREIVERIIEMMQSGCDCQNVICARYDKYDQSSPILELLTSSSWEFLLKRVGHDVMVYLLQQTSIFLPLLGKKHQQVSGPPLCIKHKRTLSVHENKRKRDDNVQPPTKRQWLSSAVDDCPKDDSATITPIVGEDVDQHREKKTTKRSRIYLKRRRKQRKVNFKKVDCNAPCITPSTNGKVSTGNDEMNLHIGINGSLTDFVKQAKQVKRNKNFKFGLSETYSVIPPNHILKTLRPNCSDSKLLMNHIFGEVNVWSTTPSHGKGNCPSGSICLYHSLLKSLKNLIGKTKSSHLKMLLDKHCPVLLLQEDALKSGTTSQSSRRQKADKLPHGSSSSQTGKPKCPSVEERKLYCTNDQVVSFIWAICRYIVPESLLGTTHQMRVLRKNIAWFVSRRRNEKCTVNQFLHKVKPSDFPFFARKELCCMVNGHELQSESIRSTQQMLCTKWISWLFLEIVKKLVHFNFYATESQGGRLNIYYYRKRSWERLISKEISKALDGYVLVDDAEAESSRKKLSKFRFLPKANGVRMVLDFSSSSRSQSLRDTHAVLKDIQLKEPDVLGSSVFDHDDFYRNLCPYLIHLRSQSGELPPLYFVVADVFKAFDSVDQGKLLHVIQSFLKDEYILNRCRLVCCGKRSNWVNKILVSSDKNSNFSRFTSTVPYNALQSIVVDKGENHRVRKKDLMVWIGNMLKNNMLQLDKSFYVQIAGIPQGHRLSSLLCCFYYGHLERTLIYPFLEEASKDVSSKECSREEELIIPTSYKLLRFIDDYLFVSTSRDQASSFYHRLKHGFKDYNCFMNETKFCINFEDKEEHRCSSNRMFVGDNGVPFVRWTGLLINSRTFEVQVDYTRYLSGHISSTFSVAWQNKPVRNLRQKLCYFLVPKCHPILFDSNINSGEIVRLNIYQIFLLAAMKFHCYVYEVSRFWKLHPQTLFKFITISVRYMFRLINRRVRRINTGSSFRPVLKLYKEEVIWLGLDAYIQVLKKKNSRYRMLLIYLKSALSKHSLSQQLSSELRYATDRSNSSSLWKLNY |
| 4927 | sp|Q5JI69|TDH\_THEKO | MAEKMQAIMKTKPAYGAELVEVDVPKPGPGEVLIKVLATSICGTDLHIYEWNEWAQSRIKPPQIMGHEVAGEVVEVGPGVEDLQVGDYISVETHIVCGKCYACKHNRYHVCQNTKIFGVDMDGVFAHYAIVPAKNAWKNPKDMPPEYAALQEPLGNAVDTVLAGPIAGRSTLITGAGPLGLLGIAVAKASGAYPVIVSEPSEFRRKLAKKVGADYVVNPFEEDPVKFVMDITDGAGVEVFLEFSGAPKALEQGLKAVTPGGRVSLLGLFPREVTIDFNNLIIFKALEVHGITGRHLWETWYTVSSLIQSGKLNLDPIITHKYKGFDKFEEAFELMRAGKTGKVVFFPHKG |
| 4928 | sp|Q86TI0|TBCD1\_HUMAN | MEPITFTARKHLLSNEVSVDFGLQLVGSLPVHSLTTMPMLPWVVAEVRRLSRQSTRKEPVTKQVRLCVSPSGLRCEPEPGRSQQWDPLIYSSIFECKPQRVHKLIHNSHDPSYFACLIKEDAVHRQSICYVFKADDQTKVPEIISSIRQAGKIARQEELHCPSEFDDTFSKKFEVLFCGRVTVAHKKAPPALIDECIEKFNHVSGSRGSESPRPNPPHAAPTGSQEPVRRPMRKSFSQPGLRSLAFRKELQDGGLRSSGFFSSFEESDIENHLISGHNIVQPTDIEENRTMLFTIGQSEVYLISPDTKKIALEKNFKEISFCSQGIRHVDHFGFICRESSGGGGFHFVCYVFQCTNEALVDEIMMTLKQAFTVAAVQQTAKAPAQLCEGCPLQSLHKLCERIEGMNSSKTKLELQKHLTTLTNQEQATIFEEVQKLRPRNEQRENELIISFLRCLYEEKQKEHIHIGEMKQTSQMAAENIGSELPPSATRFRLDMLKNKAKRSLTESLESILSRGNKARGLQEHSISVDLDSSLSSTLSNTSKEPSVCEKEALPISESSFKLLGSSEDLSSDSESHLPEEPAPLSPQQAFRRRANTLSHFPIECQEPPQPARGSPGVSQRKLMRYHSVSTETPHERKDFESKANHLGDSGGTPVKTRRHSWRQQIFLRVATPQKACDSSSRYEDYSELGELPPRSPLEPVCEDGPFGPPPEEKKRTSRELRELWQKAILQQILLLRMEKENQKLQASENDLLNKRLKLDYEEITPCLKEVTTVWEKMLSTPGRSKIKFDMEKMHSAVGQGVPRHHRGEIWKFLAEQFHLKHQFPSKQQPKDVPYKELLKQLTSQQHAILIDLGRTFPTHPYFSAQLGAGQLSLYNILKAYSLLDQEVGYCQGLSFVAGILLLHMSEEEAFKMLKFLMFDMGLRKQYRPDMIILQIQMYQLSRLLHDYHRDLYNHLEEHEIGPSLYAAPWFLTMFASQFPLGFVARVFDMIFLQGTEVIFKVALSLLGSHKPLILQHENLETIVDFIKSTLPNLGLVQMEKTINQVFEMDIAKQLQAYEVEYHVLQEELIDSSPLSDNQRMDKLEKTNSSLRKQNLDLLEQLQVANGRIQSLEATIEKLLSSESKLKQAMLTLELERSALLQTVEELRRRSAEPSDREPECTQPEPTGD |
| 4929 | sp|Q12962|TAF10\_HUMAN | MSCSGSGADPEAAPASAASAPGPAPPVSAPAALPSSTAAENKASPAGTAGGPGAGAAAGGTGPLAARAGEPAERRGAAPVSAGGAAPPEGAISNGVYVLPSAANGDVKPVVSSTPLVDFLMQLEDYTPTIPDAVTGYYLNRAGFEASDPRIIRLISLAAQKFISDIANDALQHCKMKGTASGSSRSKSKDRKYTLTMEDLTPALSEYGINVKKPHYFT |
| 4930 | sp|Q9LR29|TAR1\_ARATH | MMVGCENSKKSDSGSNEDKSLSDDIINLDQGDPTAFQEYWMKKKDRCTVVIPAWDLMSYFSDTKNVCWFLEPELEKAIKALHGAIGNAATEERYIVVGTGSSQLCQAALFALSSLSEVKPVSIVAAVPYYSTYVEEASYLQSTLYKWEGDARTFDKKGPYIELVTSPNNPDGIMREPVVNRREGGKVIHDLAYYWPHYTPITRRQDHDLMLFTFSKITGHAGSRIGWALVKDIEVAKKMVHYLTINSIGVSKESQTRATTILNELTKTCRTQSESFFEYGYEKMKSRWERLREVVESGDAFTLPNYPQDFCNFFGKTLSTSPAFAWLGYKEERDLGSLLKEKKVLTRGGDRCGCNKRYVRVSMLSRDDDFDVSLQRLATIKDLKCVEP |
| 4931 | sp|Q8IYF3|TEX11\_HUMAN | MISAHCNLRLLCSSDSSASASQVAGTTEVVENLVTNDNSPNIPEAIDRLFSDIANINRESMAEITDIQIEEMAVNLWNWALTIGGGWLVNEEQKIRLHYVACKLLSMCEASFASEQSIQRLIMMNMRIGKEWLDAGNFLIADECFQAAVASLEQLYVKLIQRSSPEADLTMEKITVESDHFRVLSYQAESAVAQGDFQRASMCVLQCKDMLMRLPQMTSSLHHLCYNFGVETQKNNKYEESSFWLSQSYDIGKMDKKSTGPEMLAKVLRLLATNYLDWDDTKYYDKALNAVNLANKEHLSSPGLFLKMKILLKGETSNEELLEAVMEILHLDMPLDFCLNIAKLLMDHERESVGFHFLTIIHERFKSSENIGKVLILHTDMLLQRKEELLAKEKIEEIFLAHQTGRQLTAESMNWLHNILWRQAASSFEVQNYTDALQWYYYSLRFYSTDEMDLDFTKLQRNMACCYLNLQQLDKAKEAVAEAERHDPRNVFTQFYIFKIAVIEGNSERALQAIITLENILTDEESEDNDLVAERGSPTMLLSLAAQFALENGQQIVAEKALEYLAQHSEDQEQVLTAVKCLLRFLLPKIAEMPESEDKKKEMDRLLTCLNRAFVKLSQPFGEEALSLESRANEAQWFRKTAWNLAVQCDKDPVMMREFFILSYKMSQFCPSDQVILIARKTCLLMAVAVDLEQGRKASTAFEQTMFLSRALEEIQTCNDIHNFLKQTGTFSNDSCEKLLLLYEFEVRAKLNDPLLESFLESVWELPHLETKTFETIAIIAMEKPAHYPLIALKALKKALLLYKKEEPIDISQYSKCMHNLVNLSVPDGASNVELCPLEEVWGYFEDALSHISRTKDYPEMEILWLMVKSWNTGVLMFSRSKYASAEKWCGLALRFLNHLTSFKESYETQMNMLYSQLVEALSNNKGPVFHEHGYWSKSD |
| 4932 | sp|Q12052|TGS1\_YEAST | MGRTFIHASKIKHAARKRKHHSNFRTLIKLLNNDAYKIESSKPLKNGKLFKYWKNRRRLFSKIDSASIYMTDELWFSVTPERIACFLANFVKACMPNAERILDVFCGGGGNTIQFAMQFPYVYGVDYSIEHIYCTAKNAQSYGVDDRIWLKRGSWKKLVSKQKLSKIKYDCVFGSPPWGGPEYLRNDVYDLEQHLKPMGITKMLKSFLKLSPNVIMFLPRNSDLNQLSRATRKVLGPFAKCKVLYVKENGYMKGIFCMWGECFFNYEPASTENSRRESSEKEELSSENEELSKRKKHESTTTTKDNTVDIYDVNG |
| 4933 | sp|Q9SSD1|TMM\_ARATH | MARYEFFRQIFIVLSIVSPLVRSFTVITSDSTAPSALIDGPQTGFTMTNDGARTEPDEQDAVYDIMRATGNDWAAAIPDVCRGRWHGIECMPDQDNVYHVVSLSFGALSDDTAFPTCDPQRSYVSESLTRLKHLKALFFYRCLGRAPQRIPAFLGRLGSSLQTLVLRENGFLGPIPDELGNLTNLKVLDLHKNHLNGSIPLSFNRFSGLRSLDLSGNRLTGSIPGFVLPALSVLDLNQNLLTGPVPPTLTSCGSLIKIDLSRNRVTGPIPESINRLNQLVLLDLSYNRLSGPFPSSLQGLNSLQALMLKGNTKFSTTIPENAFKGLKNLMILVLSNTNIQGSIPKSLTRLNSLRVLHLEGNNLTGEIPLEFRDVKHLSELRLNDNSLTGPVPFERDTVWRMRRKLRLYNNAGLCVNRDSDLDDAFGSKSGSTVRLCDAETSRPAPSGTVQHLSREEDGALPDGATDVSSTSKSLGFSYLSAFFLVFPNFIFMLISS |
| 4934 | sp|Q9Y4C2|TCAF1\_HUMAN | MATPSAAFEALMNGVTSWDVPEDAVPCELLLIGEASFPVMVNDMGQVLIAASSYGRGRLVVVSHEDYLVEAQLTPFLLNAVGWLCSSPGAPIGVHPSLAPLAKILEGSGVDAKVEPEVKDSLGVYCIDAYNETMTEKLVKFMKCGGGLLIGGQAWDWANQGEDERVLFTFPGNLVTSVAGIYFTDNKGDTSFFKVSKKMPKIPVLVSCEDDLSDDREELLHGISELDISNSDCFPSQLLVHGALAFPLGLDSYHGCVIAAARYGRGRVVVTGHKVLFTVGKLGPFLLNAVRWLDGGRRGKVVVQTELRTLSGLLAVGGIDTSIEPNLTSDASVYCFEPVSEVGVKELQEFVAEGGGLFVGAQAWWWAFKNPGVSPLARFPGNLLLNPFGISITSQSLNPGPFRTPKAGIRTYHFRSTLAEFQVIMGRKRGNVEKGWLAKLGPDGAAFLQIPAEEIPAYMSVHRLLRKLLSRYRLPVATRENPVINDCCRGAMLSLATGLAHSGSDLSLLVPEIEDMYSSPYLRPSESPITVEVNCTNPGTRYCWMSTGLYIPGRQIIEVSLPEAAASADLKIQIGCHTDDLTRASKLFRGPLVINRCCLDKPTKSITCLWGGLLYIIVPQNSKLGSVPVTVKGAVHAPYYKLGETTLEEWKRRIQENPGPWGELATDNIILTVPTANLRTLENPEPLLRLWDEVMQAVARLGAEPFPLRLPQRIVADVQISVGWMHAGYPIMCHLESVQELINEKLIRTKGLWGPVHELGRNQQRQEWEFPPHTTEATCNLWCVYVHETVLGIPRSRANIALWPPVREKRVRIYLSKGPNVKNWNAWTALETYLQLQEAFGWEPFIRLFTEYRNQTNLPTENVDKMNLWVKMFSHQVQKNLAPFFEAWAWPIQKEVATSLAYLPEWKENIMKLYLLTQMPH |
| 4935 | sp|Q8CF89|TAB1\_MOUSE | MAAQRRSLLQSEQQPSWTDDLPLCHLSGVGSASNRSYSADGKGTESHPPEDNWLKFRSENNCFLYGVFNGYDGNRVTNFVAQRLSAELLLGQLNTEHTEADVRRVLLQAFDVVERSFLESIDDALAEKASLQSQLPEGVPQHQLPPQYQKILERLKALEREISGGAMAVVAVLLNSKLYVANVGTNRALLCKSTVDGLQVTQLNMDHTTENEDELFRLSQLGLDAGKIKQMGVICGQESTRRIGDYKVKYGYTDIDLLSAAKSKPIIAEPEIHGAQPLDGVTGFLVLMSEGLYKALEAAHGPGQANQEIAAMIDTEFAKQTSLDAVAQAVVDRVKRIHSDTFASGGERAKFCPRHEDMTLLVRNFGYPLGEMSQPTPTPAPGGRVYPVSVPYSSAQSTSKTSVTLSLVMPSQGQMVNGSHSASTLDEATPTLTNQSPTLTLQSTNTHTQSSSSSSDGGLFRSRPAHSLPPGEDGRVEPYVDFAEFYRLWSVDHGEQSVMTAP |
| 4936 | sp|Q9GZM7|TINAL\_HUMAN | MWRCPLGLLLLLPLAGHLALGAQQGRGRRELAPGLHLRGIRDAGGRYCQEQDLCCRGRADDCALPYLGAICYCDLFCNRTVSDCCPDFWDFCLGVPPPFPPIQGCMHGGRIYPVLGTYWDNCNRCTCQENRQWQCDQEPCLVDPDMIKAINQGNYGWQAGNHSAFWGMTLDEGIRYRLGTIRPSSSVMNMHEIYTVLNPGEVLPTAFEASEKWPNLIHEPLDQGNCAGSWAFSTAAVASDRVSIHSLGHMTPVLSPQNLLSCDTHQQQGCRGGRLDGAWWFLRRRGVVSDHCYPFSGRERDEAGPAPPCMMHSRAMGRGKRQATAHCPNSYVNNNDIYQVTPVYRLGSNDKEIMKELMENGPVQALMEVHEDFFLYKGGIYSHTPVSLGRPERYRRHGTHSVKITGWGEETLPDGRTLKYWTAANSWGPAWGERGHFRIVRGVNECDIESFVLGVWGRVGMEDMGHH |
| 4937 | sp|Q9Y3D7|TIM16\_HUMAN | MAKYLAQIIVMGVQVVGRAFARALRQEFAASRAAADARGRAGHRSAAASNLSGLSLQEAQQILNVSKLSPEEVQKNYEHLFKVNDKSVGGSFYLQSKVVRAKERLDEELKIQAQEDREKGQMPHT |
| 4938 | sp|O75663|TIPRL\_HUMAN | MMIHGFQSSHRDFCFGPWKLTASKTHIMKSADVEKLADELHMPSLPEMMFGDNVLRIQHGSGFGIEFNATDALRCVNNYQGMLKVACAEEWQESRTEGEHSKEVIKPYDWTYTTDYKGTLLGESLKLKVVPTTDHIDTEKLKAREQIKFFEEVLLFEDELHDHGVSSLSVKIRVMPSSFFLLLRFFLRIDGVLIRMNDTRLYHEADKTYMLREYTSRESKISSLMHVPPSLFTEPNEISQYLPIKEAVCEKLIFPERIDPNPADSQKSTQVE |
| 4939 | sp|Q8WUH2|TGFA1\_HUMAN | MMSIKAFTLVSAVERELLMGDKERVNIECVECCGRDLYVGTNDCFVYHFLLEERPVPAGPATFTATKQLQRHLGFKKPVNELRAASALNRLLVLCDNSISLVNMLNLEPVPSGARIKGAATFALNENPVSGDPFCVEVCIISVKRRTIQMFLVYEDRVQIVKEVSTAEQPLAVAVDGHFLCLALTTQYIIHNYSTGVSQDLFPYCSEERPPIVKRIGRQEFLLAGPGGLGMFATVAGISQRAPVHWSENVIGAAVSFPYVIALDDEFITVHSMLDQQQKQTLPFKEGHILQDFEGRVIVATSKGVYILVPLPLEKQIQDLLASRRVEEALVLAKGARRNIPKEKFQVMYRRILQQAGFIQFAQLQFLEAKELFRSGQLDVRELISLYPFLLPTSSSFTRSHPPLHEYADLNQLTQGDQEKMAKCKRFLMSYLNEVRSTEVANGYKEDIDTALLKLYAEADHDSLLDLLVTENFCLLTDSAAWLEKHKKYFALGLLYHYNNQDAAAVQLWVNIVNGDVQDSTRSDLYEYIVDFLTYCLDEELVWAYADWVLQKSEEVGVQVFTKRPLDEQQKNSFNPDDIINCLKKYPKALVKYLEHLVIDKRLQKEEYHTHLAVLYLEEVLLQRASASGKGAEATETQAKLRRLLQKSDLYRVHFLLERLQGAGLPMESAILHGKLGEHEKALHILVHELQDFAAAEDYCLWCSEGRDPPHRQQLFHTLLAIYLHAGPTAHELAVAAVDLLNRHATEFDAAQVLQMLPDTWSVQLLCPFLMGAMRDSIHARRTMQVALGLARSENLIYTYDKMKLKGSSIQLSDKKLCQICQNPFCEPVFVRYPNGGLVHTHCAASRHTNPSSSSPGTRT |
| 4940 | sp|P58753|TIRAP\_HUMAN | MASSTSLPAPGSRPKKPLGKMADWFRQTLLKKPKKRPNSPESTSSDASQPTSQDSPLPPSLSSVTSPSLPPTHASDSGSSRWSKDYDVCVCHSEEDLVAAQDLVSYLEGSTASLRCFLQLRDATPGGAIVSELCQALSSSHCRVLLITPGFLQDPWCKYQMLQALTEAPGAEGCTIPLLSGLSRAAYPPELRFMYYVDGRGPDGGFRQVKEAVMRYLQTLS |
| 4941 | sp|Q9BRJ7|TIRR\_HUMAN | MSTAAVPELKQISRVEAMRLGPGWSHSCHAMLYAANPGQLFGRIPMRFSVLMQMRFDGLLGFPGGFVDRRFWSLEDGLNRVLGLGLGCLRLTEADYLSSHLTEGPHRVVAHLYARQLTLEQLHAVEISAVHSRDHGLEVLGLVRVPLYTQKDRVGGFPNFLSNAFVSTAKCQLLFALKVLNMMPEEKLVEALAAATEKQKKALEKLLPASS |
| 4942 | sp|O55047|TLK2\_MOUSE | MMEELHSLDPRRQELLEARFTGVGVSKGPLNSESSNQSLCSVGSLSDKEVETPEKKQNDQRNRKRKAEPYDTSQGKGTPRGHKISDYFERRAEQPLYGLDGSAAKEASEEQSALPTLMSVMLAKPRLDTEQLAPRGAGLCFTFVSAQQNSPSSTGSGNTEHSCSSQKQISIQHRQTQSDLTIEKISALENSKNSDLEKKEGRIDDLLRANCDLRRQIDEQQKMLEKYKERLNRCVTMSKKLLIEKSKQEKMACRDKSMQDRLRLGHFTTVRHGASFTEQWTDGYAFQNLIKQQERINSQREEIERQRKMLAKRKPPAMGQAPPATNEQKQRKSKTNGAENETLTLAEYHEQEEIFKLRLGHLKKEEAEIQAELERLERVRNLHIRELKRIHNEDNSQFKDHPTLNDRYLLLHLLGRGGFSEVYKAFDLTEQRYVAVKIHQLNKNWRDEKKENYHKHACREYRIHKELDHPRIVKLYDYFSLDTDSFCTVLEYCEGNDLDFYLKQHKLMSEKEARSIIMQIVNALKYLNEIKPPIIHYDLKPGNILLVNGTACGEIKITDFGLSKIMDDDSYNSVDGMELTSQGAGTYWYLPPECFVVGKEPPKISNKVDVWSVGVIFYQCLYGRKPFGHNQSQQDILQENTILKATEVQFPPKPVVTPEAKAFIRRCLAYRKEDRIDVQQLACDPYLLPHIRKSVSTSSPAGAAIASTSGASNNSSSN |
| 4943 | sp|Q15583|TGIF1\_HUMAN | MVLAQSRVSAGVGSPHCSGSGGGGSDSFPWPASHPGNPQCSFSTAFLASPRLSRGTLAYLPPAPWSSLATPSALLGSSCAPPPPPARCPQPRALSPELGTKAGPRRPHRWELPRSPSQGAQGPAPRRRLLETMKGIVAASGSETEDEDSMDIPLDLSSSAGSGKRRRRGNLPKESVQILRDWLYEHRYNAYPSEQEKALLSQQTHLSTLQVCNWFINARRRLLPDMLRKDGKDPNQFTISRRGAKISETSSVESVMGIKNFMPALEETPFHSCTAGPNPTLGRPLSPKPSSPGSVLARPSVICHTTVTALKDVPFSLCQSVGVGQNTDIQQIAAKNFTDTSLMYPEDTCKSGPSTNTQSGLFNTPPPTPPDLNQDFSGFQLLVDVALKRAAEMELQAKLTA |
| 4944 | sp|P54831|TGFB1\_CANLF | MPPSGLRLLPLLLPLLRLLVLTPGRPAAGLSTCKTIDMELVKRKRIEAIRGQILSKLRLSSPPSQGEVPPVPLPEAVLALYNSTRDRVAGESAEPEPEPEADYYAKEVTRVLMVENTNKIYEKVKKSPHSIYMLFNTSELREAVPEPVLLSRAELRLLRLKLKAEQHVELYQKYSNDSWRYLSNRLLAPSDTPEWLSFDVTGVVRQWLSHGGEVEGFRLSAHCSCDSKDNTLQVDINGFSSSRRGDLATIHGMNRPFLLLMATPLERAQHLHSSRQRRALDTNYCFSSTEKNCCVRQLYIDFRKDLGWKWIHEPKGYHANFCLGPCPYIWSLDTQYSKVLALYNQHNPGASAAPCCVPQALEPLPIVYYVGRKPKVEQLSNMIVRSCKCS |
| 4945 | sp|Q9UPQ9|TNR6B\_HUMAN | MREKEQEREEQLMEDKKRKKEDKKKKEATQKVTEQKTKVPEVTKPSLSQPTAASPIGSSPSPPVNGGNNAKRVAVPNGQPPSAARYMPREVPPRFRCQQDHKVLLKRGQPPPPSCMLLGGGAGPPPCTAPGANPNNAQVTGALLQSESGTAPDSTLGGAAASNYANSTWGSGASSNNGTSPNPIHIWDKVIVDGSDMEEWPCIASKDTESSSENTTDNNSASNPGSEKSTLPGSTTSNKGKGSQCQSASSGNECNLGVWKSDPKAKSVQSSNSTTENNNGLGNWRNVSGQDRIGPGSGFSNFNPNSNPSAWPALVQEGTSRKGALETDNSNSSAQVSTVGQTSREQQSKMENAGVNFVVSGREQAQIHNTDGPKNGNTNSLNLSSPNPMENKGMPFGMGLGNTSRSTDAPSQSTGDRKTGSVGSWGAARGPSGTDTVSGQSNSGNNGNNGKEREDSWKGASVQKSTGSKNDSWDNNNRSTGGSWNFGPQDSNDNKWGEGNKMTSGVSQGEWKQPTGSDELKIGEWSGPNQPNSSTGAWDNQKGHPLPENQGNAQAPCWGRSSSSTGSEVGGQSTGSNHKAGSSDSHNSGRRSYRPTHPDCQAVLQTLLSRTDLDPRVLSNTGWGQTQIKQDTVWDIEEVPRPEGKSDKGTEGWESAATQTKNSGGWGDAPSQSNQMKSGWGELSASTEWKDPKNTGGWNDYKNNNSSNWGGGRPDEKTPSSWNENPSKDQGWGGGRQPNQGWSSGKNGWGEEVDQTKNSNWESSASKPVSGWGEGGQNEIGTWGNGGNASLASKGGWEDCKRSPAWNETGRQPNSWNKQHQQQQPPQQPPPPQPEASGSWGGPPPPPPGNVRPSNSSWSSGPQPATPKDEEPSGWEEPSPQSISRKMDIDDGTSAWGDPNSYNYKNVNLWDKNSQGGPAPREPNLPTPMTSKSASVWSKSTPPAPDNGTSAWGEPNESSPGWGEMDDTGASTTGWGNTPANAPNAMKPNSKSMQDGWGESDGPVTGARHPSWEEEEDGGVWNTTGSQGSASSHNSASWGQGGKKQMKCSLKGGNNDSWMNPLAKQFSNMGLLSQTEDNPSSKMDLSVGSLSDKKFDVDKRAMNLGDFNDIMRKDRSGFRPPNSKDMGTTDSGPYFEKLTLPFSNQDGCLGDEAPCSPFSPSPSYKLSPSGSTLPNVSLGAIGTGLNPQNFAARQGGSHGLFGNSTAQSRGLHTPVQPLNSSPSLRAQVPPQFISPQVSASMLKQFPNSGLSPGLFNVGPQLSPQQIAMLSQLPQIPQFQLACQLLLQQQQQQQLLQNQRKISQAVRQQQEQQLARMVSALQQQQQQQQRQPGMKHSPSHPVGPKPHLDNMVPNALNVGLPDLQTKGPIPGYGSGFSSGGMDYGMVGGKEAGTESRFKQWTSMMEGLPSVATQEANMHKNGAIVAPGKTRGGSPYNQFDIIPGDTLGGHTGPAGDSWLPAKSPPTNKIGSKSSNASWPPEFQPGVPWKGIQNIDPESDPYVTPGSVLGGTATSPIVDTDHQLLRDNTTGSNSSLNTSLPSPGAWPYSASDNSFTNVHSTSAKFPDYKSTWSPDPIGHNPTHLSNKMWKNHISSRNTTPLPRPPPGLTNPKPSSPWSSTAPRSVRGWGTQDSRLASASTWSDGGSVRPSYWLVLHNLTPQIDGSTLRTICMQHGPLLTFHLNLTQGTALIRYSTKQEAAKAQTALHMCVLGNTTILAEFATDDEVSRFLAQAQPPTPAATPSAPAAGWQSLETGQNQSDPVGPALNLFGGSTGLGQWSSSAGGSSGADLAGASLWGPPNYSSSLWGVPTVEDPHRMGSPAPLLPGDLLGGGSDSI |
| 4946 | sp|Q99376|TFR1\_RAT | MMDQARSAFSNLFGGEPLSYTRFSLARQVDGDNSHVEMKLAADEEENADSNMKASVRKPKRFNGRLCFATIAVVIFFLIGFMIGYLGYCKRVEQKEECVRLAEAEEADKSENDETEYVPKSSRLFWADLKTLLSEKLNSIEFTDIIKQLSQNTYTPREAGSQKDENLAYYIENLFHDFKFSKVWRDEHYVKIQVKNSVSQNLVTINSGSNIDPVEAPEGYVAFSKAGEVTGKLVHANFGTKKDFEELNYSVNGSLVIVRAGKITFAEKVANAQSFNAIGVLIYMDRNTFPVVEADLQFFGHAHLGTGDPYTPGFPSFNHTQFPPSQSSGLPSIPVQTISRAAAEKLFKNMEGNCPPSWNIDSSCKLELSQNQNVKLTVNNVLKETRILNIFGVIKGYEEPDRYIVVGAQRDAWGPGVAKSSVGTGLLLKLAQVFSDMISKDGFRPSRSIIFASWTAGDYGAVGATEWLEGYLSSLHLKAFTYINLDKVVLGTSNFKVSASPLLYTLMGKIMQDVKHPIDGKYLYRDSNWISKIEELSLDNAAFPFLAYSGIPAVSFCFCEDEDYPYLGTKLDTYEILIQKVPQLNQMVRTAAEVAGQFIIKLTHDIELTLDYEMYNSKLLSFMKDLNQFKADIKDMGLSLQWLYSARGDYFRATSRLTTDFHNAEKTNRFVMREINDRIMKVEYHFLSPYVSPRESPFRHIFWGSGSHTLSALVENLRLRQKNITAFNETLFRNQLALATWTIQGVANALSGDIWNIDNEF |
| 4947 | sp|P82228|TK1C\_HADVE | AICTGADRPCAACCPCCPGTSCKAESNGVSYCRKDEP |
| 4948 | sp|Q19253|TOCA1\_CAEEL | MNDSCSWDQLWDQQGTLNEYTGKGIDLLERIMAYSKERASIELEYSSKLKALSKKTAMKMKSESELWNSVSYVKGFHDVIAGIVPVATQHELIAENLKSAVIPFTTQKIAEYRVAKKQLESDNSNLGKQLRMVIDEMAKSHKEYVKCYKETEAAMLKYAKAEKNMDISRLELEKTKNNYQQKCGMLEESKQTYAVMTTKANEEQSAHYDRKLPQLLDNYKKLHTNRILDTVEILSKCVEAESCVNQIIASCHNDMRRDIGLIDPSRDANLVVENMKSGHPVPQPFVFEDLGHPQDRSSFMGGGASGPAGSMDGMDATMKKGGTLMSKNGKGVARKQSMHQKFFGGGTADKKTDSGDYGTLPPQQRARKIAGKISDLEKEKDRATQSREGVSKMQAAYRENPKLGNPSDCDAQLAQYGHEIDALSNQIQKFKILLDDVNAQLGAGGLSATSVGGSDTPPSIRSVSSASSGVTSRVNTINDAHRTNGGVGGGRRESFSGSNGGSDTDPTINGNGHGRDELYEECSNPNPVLGEAIAQFAFDGAQDGTIRMEANEKLWLIEKDEGDGWTRVRKENNSADGFVPSSYLKVTWFGKV |
| 4949 | sp|Q7Z2Z1|TICRR\_HUMAN | MACCHKVMLLLDTAGGAARHSRVRRAALRLLTYLSCRFGLARVHWAFKFFDSQGARSRPSRVSDFRELGSRSWEDFEEELEARLEDRAHLPGPAPRATHTHGALMETLLDYQWDRPEITSPTKPILRSSGRRLLDVESEAKEAEAALGGLVNAVFLLAPCPHSQRELLQFVSGCEAQAQRLPPTPKQVMEKLLPKRVREVMVARKITFYWVDTTEWSKLWESPDHLGYWTVCELLHHGGGTVLPSESFSWDFAQAGEMLLRSGIKLSSEPHLSPWISMLPTDATLNRLLYNSPEYEASFPRMEGMLFLPVEAGKEIQETWTVTLEPLAMHQRHFQKPVRIFLKGSVAQWSLPTSSTLGTDSWMLGSPEESTATQRLLFQQLVSRLTAEELHLVADVDPGEGRPPITGVISPLSASAMILTVCRTKEAEFQRHVLQTAVADSPRDTASLFSDVVDSILNQTHDSLADTASAASPVPEWAQQELGHTTPWSPAVVEKWFPFCNISGASSDLMESFGLLQAASANKEESSKTEGELIHCLAELYQRKSREESTIAHQEDSKKKRGVPRTPVRQKMNTMCRSLKMLNVARLNVKAQKLHPDGSPDVAGEKGIQKIPSGRTVDKLEDRGRTLRSSKPKDFKTEEELLSYIRENYQKTVATGEIMLYACARNMISTVKMFLKSKGTKELEVNCLNQVKSSLLKTSKSLRQNLGKKLDKEDKVRECQLQVFLRLEMCLQCPSINESTDDMEQVVEEVTDLLRMVCLTEDSAYLAEFLEEILRLYIDSIPKTLGNLYNSLGFVIPQKLAGVLPTDFFSDDSMTQENKSPLLSVPFLSSARRSVSGSPESDELQELRTRSAKKRRKNALIRHKSIAEVSQNLRQIEIPKVSKRATKKENSHPAPQQPSQPVKDTVQEVTKVRRNLFNQELLSPSKRSLKRGLPRSHSVSAVDGLEDKLDNFKKNKGYHKLLTKSVAETPVHKQISKRLLHRQIKGRSSDPGPDIGVVEESPEKGDEISLRRSPRIKQLSFSRTHSASFYSVSQPKSRSVQRVHSFQQDKSDQRENSPVQSIRSPKSLLFGAMSEMISPSEKGSARMKKRSRNTLDSEVPAAYQTPKKSHQKSLSFSKTTPRRISHTPQTPLYTPERLQKSPAKMTPTKQAAFKESLKDSSSPGHDSPLDSKITPQKRHTQAGEGTSLETKTPRTPKRQGTQPPGFLPNCTWPHSVNSSPESPSCPAPPTSSTAQPRRECLTPIRDPLRTPPRAAAFMGTPQNQTHQQPHVLRAARAEEPAQKLKDKAIKTPKRPGNSTVTSSPPVTPKKLFTSPLCDVSKKSPFRKSKIECPSPGELDQKEPQMSPSVAASLSCPVPSTPPELSQRATLDTVPPPPPSKVGKRCRKTSDPRRSIVECQPDASATPGVGTADSPAAPTDSRDDQKGLSLSPQSPPERRGYPGPGLRSDWHASSPLLITSDTEHVTLLSEAEHHGIGDLKSNVLSVEEGEGLRTADAEKSSLSHPGIPPSPPSCGPGSPLMPSRDVHCTTDGRQCQASAQLDNLPASAWHSTDSASPQTYEVELEMQASGLPKLRIKKIDPSSSLEAEPLSKEESSLGEESFLPALSMPRASRSLSKPEPTYVSPPCPRLSHSTPGKSRGQTYICQACTPTHGPSSTPSPFQTDGVPWTPSPKHSGKTTPDIIKDWPRRKRAVGCGAGSSSGRGEVGADLPGSLSLLESEGKDHGLELSIHRTPILEDFELEGVCQLPDQSPPRNSMPKAEEASSWGQFGLSSRKRVLLAKEEADRGAKRICDLREDSEVSKSKEGSPSWSAWQLPSTGDEEVFVSGSTPPPSCAVRSCLSASALQALTQSPLLFQGKTPSSQSKDPRDEDVDVLPSTVEDSPFSRAFSRRRPISRTYTRKKLMGTWLEDL |
| 4950 | sp|P06804|TNFA\_MOUSE | MSTESMIRDVELAEEALPQKMGGFQNSRRCLCLSLFSFLLVAGATTLFCLLNFGVIGPQRDEKFPNGLPLISSMAQTLTLRSSSQNSSDKPVAHVVANHQVEEQLEWLSQRANALLANGMDLKDNQLVVPADGLYLVYSQVLFKGQGCPDYVLLTHTVSRFAISYQEKVNLLSAVKSPCPKDTPEGAELKPWYEPIYLGGVFQLEKGDQLSAEVNLPKYLDFAESGQVYFGVIAL |
| 4951 | sp|Q9EQU3|TLR9\_MOUSE | MVLRRRTLHPLSLLVQAAVLAETLALGTLPAFLPCELKPHGLVDCNWLFLKSVPRFSAAASCSNITRLSLISNRIHHLHNSDFVHLSNLRQLNLKWNCPPTGLSPLHFSCHMTIEPRTFLAMRTLEELNLSYNGITTVPRLPSSLVNLSLSHTNILVLDANSLAGLYSLRVLFMDGNCYYKNPCTGAVKVTPGALLGLSNLTHLSLKYNNLTKVPRQLPPSLEYLLVSYNLIVKLGPEDLANLTSLRVLDVGGNCRRCDHAPNPCIECGQKSLHLHPETFHHLSHLEGLVLKDSSLHTLNSSWFQGLVNLSVLDLSENFLYESITHTNAFQNLTRLRKLNLSFNYRKKVSFARLHLASSFKNLVSLQELNMNGIFFRLLNKYTLRWLADLPKLHTLHLQMNFINQAQLSIFGTFRALRFVDLSDNRISGPSTLSEATPEEADDAEQEELLSADPHPAPLSTPASKNFMDRCKNFKFTMDLSRNNLVTIKPEMFVNLSRLQCLSLSHNSIAQAVNGSQFLPLTNLQVLDLSHNKLDLYHWKSFSELPQLQALDLSYNSQPFSMKGIGHNFSFVTHLSMLQSLSLAHNDIHTRVSSHLNSNSVRFLDFSGNGMGRMWDEGGLYLHFFQGLSGLLKLDLSQNNLHILRPQNLDNLPKSLKLLSLRDNYLSFFNWTSLSFLPNLEVLDLAGNQLKALTNGTLPNGTLLQKLDVSSNSIVSVVPAFFALAVELKEVNLSHNILKTVDRSWFGPIVMNLTVLDVRSNPLHCACGAAFVDLLLEVQTKVPGLANGVKCGSPGQLQGRSIFAQDLRLCLDEVLSWDCFGLSLLAVAVGMVVPILHHLCGWDVWYCFHLCLAWLPLLARSRRSAQTLPYDAFVVFDKAQSAVADWVYNELRVRLEERRGRRALRLCLEDRDWLPGQTLFENLWASIYGSRKTLFVLAHTDRVSGLLRTSFLLAQQRLLEDRKDVVVLVILRPDAHRSRYVRLRQRLCRQSVLFWPQQPNGQGGFWAQLSTALTRDNRHFYNQNFCRGPTAE |
| 4952 | sp|Q9NR96|TLR9\_HUMAN | MGFCRSALHPLSLLVQAIMLAMTLALGTLPAFLPCELQPHGLVNCNWLFLKSVPHFSMAAPRGNVTSLSLSSNRIHHLHDSDFAHLPSLRHLNLKWNCPPVGLSPMHFPCHMTIEPSTFLAVPTLEELNLSYNNIMTVPALPKSLISLSLSHTNILMLDSASLAGLHALRFLFMDGNCYYKNPCRQALEVAPGALLGLGNLTHLSLKYNNLTVVPRNLPSSLEYLLLSYNRIVKLAPEDLANLTALRVLDVGGNCRRCDHAPNPCMECPRHFPQLHPDTFSHLSRLEGLVLKDSSLSWLNASWFRGLGNLRVLDLSENFLYKCITKTKAFQGLTQLRKLNLSFNYQKRVSFAHLSLAPSFGSLVALKELDMHGIFFRSLDETTLRPLARLPMLQTLRLQMNFINQAQLGIFRAFPGLRYVDLSDNRISGASELTATMGEADGGEKVWLQPGDLAPAPVDTPSSEDFRPNCSTLNFTLDLSRNNLVTVQPEMFAQLSHLQCLRLSHNCISQAVNGSQFLPLTGLQVLDLSHNKLDLYHEHSFTELPRLEALDLSYNSQPFGMQGVGHNFSFVAHLRTLRHLSLAHNNIHSQVSQQLCSTSLRALDFSGNALGHMWAEGDLYLHFFQGLSGLIWLDLSQNRLHTLLPQTLRNLPKSLQVLRLRDNYLAFFKWWSLHFLPKLEVLDLAGNQLKALTNGSLPAGTRLRRLDVSCNSISFVAPGFFSKAKELRELNLSANALKTVDHSWFGPLASALQILDVSANPLHCACGAAFMDFLLEVQAAVPGLPSRVKCGSPGQLQGLSIFAQDLRLCLDEALSWDCFALSLLAVALGLGVPMLHHLCGWDLWYCFHLCLAWLPWRGRQSGRDEDALPYDAFVVFDKTQSAVADWVYNELRGQLEECRGRWALRLCLEERDWLPGKTLFENLWASVYGSRKTLFVLAHTDRVSGLLRASFLLAQQRLLEDRKDVVVLVILSPDGRRSRYVRLRQRLCRQSVLLWPHQPSGQRSFWAQLGMALTRDNHHFYNRNFCQGPTAE |
| 4953 | sp|P50414|TGFB1\_SHEEP | MPPSGLRLLPLLLPLLWLLMLTPGRPVAGLSTCKTIDMELVKRKGIEAIRGQILSKLRLASPPSQGDVPPGPLPEAILALYNSTRDRVAGESAETEPEPEADYYAKEVTRVLMVEYGNKIYDKMKSSSHSIYMFFNTSELREAVPEPVLLSRADVRLLRLKLKVEQHVELYQKYSNNSWRYLSNRLLAPSDSPEWLSFDVTGVVRQWLTHREEIEGFRLSAHCSCDSKDNTLQVDINGFSSGRRGDLATIHGMNRPFLLLMATPLERAQHLHSSRHRRALDTNYCFSSTEKNCCVRQLYIDFRKDLGWKWIHEPKGYHANFCLGPCPYIWSLDTQYSKVLALYNQHNPGASAAPCCVPQALEPLPIVYYVGRKPKVEQLSNMIVRSCKCS |
| 4954 | sp|O75865|TPC6A\_HUMAN | MADTVLFEFLHTEMVAELWAHDPDPGPGGQKMSLSVLEGMGFRVGQALGERLPRETLAFREELDVLKFLCKDLWVAVFQKQMDSLRTNHQGTYVLQDNSFPLLLPMASGLQYLEEAPKFLAFTCGLLRGALYTLGIESVVTASVAALPVCKFQVVIPKS |
| 4955 | sp|A0R6E0|TRES\_MYCS2 | MEEHTQGSHVEAGIVEHPNAEDFGHARTLPTDTNWFKHAVFYEVLVRAFYDSNADGIGDLRGLTEKLDYIKWLGVDCLWLPPFYDSPLRDGGYDIRDFYKVLPEFGTVDDFVTLLDAAHRRGIRIITDLVMNHTSDQHEWFQESRHNPDGPYGDFYVWSDTSDRYPDARIIFVDTEESNWTFDPVRRQFYWHRFFSHQPDLNYDNPAVQEAMLDVLRFWLDLGIDGFRLDAVPYLFEREGTNCENLPETHAFLKRCRKAIDDEYPGRVLLAEANQWPADVVAYFGDPDTGGDECHMAFHFPLMPRIFMAVRRESRFPISEILAQTPPIPDTAQWGIFLRNHDELTLEMVTDEERDYMYAEYAKDPRMKANVGIRRRLAPLLENDRNQIELFTALLLSLPGSPVLYYGDEIGMGDIIWLGDRDSVRTPMQWTPDRNAGFSKATPGRLYLPPNQDAVYGYHSVNVEAQLDSSSSLLNWTRNMLAVRSRHDAFAVGTFRELGGSNPSVLAYIREVTRQQGDGGAKTDAVLCVNNLSRFPQPIELNLQQWAGYIPVEMTGYVEFPSIGQLPYLLTLPGHGFYWFQLREPDPEPGAQQ |
| 4956 | sp|Q9UDY6|TRI10\_HUMAN | MASAASVTSLADEVNCPICQGTLREPVTIDCGHNFCRACLTRYCEIPGPDLEESPTCPLCKEPFRPGSFRPNWQLANVVENIERLQLVSTLGLGEEDVCQEHGEKIYFFCEDDEMQLCVVCREAGEHATHTMRFLEDAAAPYREQIHKCLKCLRKEREEIQEIQSRENKRMQVLLTQVSTKRQQVISEFAHLRKFLEEQQSILLAQLESQDGDILRQRDEFDLLVAGEICRFSALIEELEEKNERPARELLTDIRSTLIRCETRKCRKPVAVSPELGQRIRDFPQQALPLQREMKMFLEKLCFELDYEPAHISLDPQTSHPKLLLSEDHQRAQFSYKWQNSPDNPQRFDRATCVLAHTGITGGRHTWVVSIDLAHGGSCTVGVVSEDVQRKGELRLRPEEGVWAVRLAWGFVSALGSFPTRLTLKEQPRQVRVSLDYEVGWVTFTNAVTREPIYTFTASFTRKVIPFFGLWGRGSSFSLSS |
| 4957 | sp|Q9C026|TRIM9\_HUMAN | MEEMEEELKCPVCGSFYREPIILPCSHNLCQACARNILVQTPESESPQSHRAAGSGVSDYDYLDLDKMSLYSEADSGYGSYGGFASAPTTPCQKSPNGVRVFPPAMPPPATHLSPALAPVPRNSCITCPQCHRSLILDDRGLRGFPKNRVLEGVIDRYQQSKAAALKCQLCEKAPKEATVMCEQCDVFYCDPCRLRCHPPRGPLAKHRLVPPAQGRVSRRLSPRKVSTCTDHELENHSMYCVQCKMPVCYQCLEEGKHSSHEVKALGAMWKLHKSQLSQALNGLSDRAKEAKEFLVQLRNMVQQIQENSVEFEACLVAQCDALIDALNRRKAQLLARVNKEHEHKLKVVRDQISHCTVKLRQTTGLMEYCLEVIKENDPSGFLQISDALIRRVHLTEDQWGKGTLTPRMTTDFDLSLDNSPLLQSIHQLDFVQVKASSPVPATPILQLEECCTHNNSATLSWKQPPLSTVPADGYILELDDGNGGQFREVYVGKETMCTVDGLHFNSTYNARVKAFNKTGVSPYSKTLVLQTSEVAWFAFDPGSAHSDIILSNDNLTVTCSSYDDRVVLGKTGFSKGIHYWELTVDRYDNHPDPAFGVARMDVMKDVMLGKDDKAWAMYVDNNRSWFMHNNSHTNRTEGGITKGATIGVLLDLNRKNLTFFINDEQQGPIAFDNVEGLFFPAVSLNRNVQVTLHTGLPVPDFYSSRASIA |
| 4958 | sp|Q62158|TRI27\_MOUSE | MASGSVAECLQQETTCPVCLQYFVEPMMLDCGHNICCACLARCWGAAETNVSCPQCRETFPQRHMRPNRHLANVTQLVKQLRTERPSGPGGEMGVCEKHREPLKLYCEQDQMPICVVCDRSREHRGHSVLPLEEAVEGFKEQIQNRLDHLRRVKDLKKRRRAQGEQARAELLSLTQMEREKIVWEFEQLYHSLKEHEYRLLARLEELDLAIYNSINGAITQFSCNISHLSGLIAQLEEKQQQPTRELLQDIGDTLSRAERIRIPEPWITPPDLQEKIHIFAQKCLFLTESLKQFTEKMQSDMEKIQELREAQLYSVDVTLDPDTAYPSLILSDNLRQVRYSYLQQDLPDNPERFNLFPCVLGSPCFIAGRHYWEVEVGDKAKWTIGVCEDSVCRKGGVTSAPQNGFWAVSLWYGKEYWALTSPMTALPLRTPLQRVGIFLDYDAGEVSFYNVTERCHTFTFSHATFCGPVRPYFSLSYSGGKSAAPLIICPMSGIDGFSGHVGNHGHSMETSP |
| 4959 | sp|P29144|TPP2\_HUMAN | MATAATEEPFPFHGLLPKKETGAASFLCRYPEYDGRGVLIAVLDTGVDPGAPGMQVTTDGKPKIVDIIDTTGSGDVNTATEVEPKDGEIVGLSGRVLKIPASWTNPSGKYHIGIKNGYDFYPKALKERIQKERKEKIWDPVHRVALAEACRKQEEFDVANNGSSQANKLIKEELQSQVELLNSFEKKYSDPGPVYDCLVWHDGEVWRACIDSNEDGDLSKSTVLRNYKEAQEYGSFGTAEMLNYSVNIYDDGNLLSIVTSGGAHGTHVASIAAGHFPEEPERNGVAPGAQILSIKIGDTRLSTMETGTGLIRAMIEVINHKCDLVNYSYGEATHWPNSGRICEVINEAVWKHNIIYVSSAGNNGPCLSTVGCPGGTTSSVIGVGAYVSPDMMVAEYSLREKLPANQYTWSSRGPSADGALGVSISAPGGAIASVPNWTLRGTQLMNGTSMSSPNACGGIALILSGLKANNIDYTVHSVRRALENTAVKADNIEVFAQGHGIIQVDKAYDYLVQNTSFANKLGFTVTVGNNRGIYLRDPVQVAAPSDHGVGIEPVFPENTENSEKISLQLHLALTSNSSWVQCPSHLELMNQCRHINIRVDPRGLREGLHYTEVCGYDIASPNAGPLFRVPITAVIAAKVNESSHYDLAFTDVHFKPGQIRRHFIEVPEGATWAEVTVCSCSSEVSAKFVLHAVQLVKQRAYRSHEFYKFCSLPEKGTLTEAFPVLGGKAIEFCIARWWASLSDVNIDYTISFHGIVCTAPQLNIHASEGINRFDVQSSLKYEDLAPCITLKNWVQTLRPVSAKTKPLGSRDVLPNNRQLYEMVLTYNFHQPKSGEVTPSCPLLCELLYESEFDSQLWIIFDQNKRQMGSGDAYPHQYSLKLEKGDYTIRLQIRHEQISDLERLKDLPFIVSHRLSNTLSLDIHENHSFALLGKKKSSNLTLPPKYNQPFFVTSLPDDKIPKGAGPGCYLAGSLTLSKTELGKKADVIPVHYYLIPPPTKTKNGSKDKEKDSEKEKDLKEEFTEALRDLKIQWMTKLDSSDIYNELKETYPNYLPLYVARLHQLDAEKERMKRLNEIVDAANAVISHIDQTALAVYIAMKTDPRPDAATIKNDMDKQKSTLVDALCRKGCALADHLLHTQAQDGAISTDAEGKEEEGESPLDSLAETFWETTKWTDLFDNKVLTFAYKHALVNKMYGRGLKFATKLVEEKPTKENWKNCIQLMKLLGWTHCASFTENWLPIMYPPDYCVF |
| 4960 | sp|Q80VI1|TRI56\_MOUSE | MNSKVSSPTLLEALSSDFLACKICLEQLHTPKTLPCLHTYCQDCLAQLDIGGQVRCPECREIVPVPAEGVAAFKTNFFVNGLLDLVKARAPGDVHSGKPTCALCPLVGGKSSGGPATARCLDCADDLCQACADGHRCSRQTHKHRVVDLVGYRAGWYDEEARERQASQCPQHPGEALCFLCQPCSQLLCKDCRLGPHIDHPCLPLAEAVRSRKPGLEELLAGVDSNLVELEATRVAEKEALALLREQAASVGTQVEEAAERILKSLLAQKQEVLGQLRALVEAAEEATRERLTKIERQEQVAKAAAAFARRVLSLGLEAEILSLEGAITQRLRQLQDAPWTSGPTRCVLPQLELHPGLEDKNCHLLRLIFEEPKQSPKDSGKGGAGTQGGDEAQGQGDDRTKIGKQGGAQPLTPKEGKDQNPQEDDGVFIERGNRPNKKKKCKGRGKSVSREPSPILRPNLEGSGLLPRPVFSWSFPTRMPGDKRSPRITGLCPYGPQEILVADEQNRVLKRFSLNGDYKGTVQVPEGCSPCSVAALQNAVAFSANAKLYLVSPDGEIQWRRSLSLTQSSHAVAAMPCGDRVAVSVAGHVEVYKKDGSLATRFIPGGKASRGQRALVFLTTSPQGNFVGSDWQQNSVVFCDGLGQVIWEYKGPGLHGCQPGSVSVDKKGYIFLTLREVNKVVILDPKGSLLGDFLTAYHGLEKPRVTTMVDGKYLVVSLSNGTIHVFRVRFPDS |
| 4961 | sp|Q9VK45|TOR\_DROME | MSTTSVVQQFVNGLKSRNRNVQNKATQDLLFYVKTELREMSQEELAQFFDEFDHHIFTMVNATDINEKKGGALAMKCLINCEGSLTARKGISPYLNRLRDLLLINDVSVMEIAARSLVKLANMPTSKGADSFDFDIKKAFEVLRGERQEYRRHSAVFILRELAIALPTYFYQHILTFFEVIFNAIFDPKPAIRESAGEALRAALIVTAQRESTKQSSEPQWYRICYDEANGSFNADLGSSKDQKGVTRDDRIHGGLVVFNELFRCANATWERRYTSLKTLFPKTQHNKFLEASSSSSMGSQLNTLVPRLKVPFIDKLGSTQTHLGEGEHHKGVAKFASHNVLESAYAQEILQEHYTSICDNVLEQRTSKSPYVQQALLQILPRLAAFNRAVFVEKYLQTCVSHLMQILRGKEKDRTVAYITIGYMAVAVQSAIEVHLSSIMTSVKVALPSKDLTSKRKVPVDPAVFACITLLAHAVKSEIADDVKDILEQMFYTGLSPALTVCLRELSENVPQLKSAITEGLIGILSQVLMNKAAILPYTALPTIAIDGSLMQNGDGATTVLALKTLGTFNFEEQNMLDFVQRCADYFIVHEQQEIRLEAVQTCTRLLKLAVQSSESMENSKTLSDTVSHVIERLLMVAITDMDCNVRIRILRSLDETFDGKLAQPESLNSLFITLHDEIFEIRELAMVTIGRLSSINPAYVMPKLRTTMIELITDLKYSGMSRNKEQSAKMLDHLVISTPRLISSYMNPILKALVPKLHEPESNPGVILNVLRTIGDLAEVNGGSDEMELWADDLLSILLEMLGDAGSPDKRGVALWTLGQLISATGRVVTPYHKYPVLIDILINFLKTEQRRSIRRETIRVLGLLGAMDPYKHKMNKGLIDSQKDNVLIAYSDGKVDESQDISTAELLVNMGNALDEYYPAVAIAALMRILRDPTLSTRHTSVVQAVTFIFQSLGIKCVPYLAQVLPNLLDNVRTADNNLREFLFQQLAILVAFVKLHIISYMGDIFKLIKEFWTINTPLQNTLINLIEQIAVALGCEFRDYLAELIPQILRVLQHDNSKDRMVTRRLLQALQKFGSTLGYYLPLILPPIVKLFDSPYVPQQVSMVALETINNLACQLDFTDFSSRIIHPLVRVLDAEPELRDQAMTTLRSLAKQLGKKYLVFVPMVQRTLNKHRIVDPEYEELLSKIKSCSTLADSYGAGESELRPSRFKNNEPFVTDRNSNNKNLQVTTNELRTAWQVTRRVSKDDWVEWLKRLSIGLLKESPSHALRACRSLAQEYDTLLRDLFNAAFISCWTELSPDLKNELTQSLIQALQVTDMPEITQTILNLAEFMEHCDRDPIPIETKLLGTRAMACRAYAKALRYKEEEFLLREDSQVFESLILINNKLQQREAAEGLLTRYRNAANELNVQGRWYEKLHNWDEALEHYERNLKTDSSDLEARLGHMRCLEALGDWSELSNVTKHEWENFGTEAKSRAGPLAAVAAWGLQDWEAMREYVRCIPEDTQDGSYYRAVLAVHHDDFETAQRLIDETRDLLDTELTSMAGESYERAYGAMVCVQMLAELEEVIQYKLIPERREPLKTMWWKRLQGGQRLVEDWRRIIQVHSLVVKPHEDIHTWLKYASLCRKSGSLHLSHKTLVMLLGTDPKLNPNQPLPCNQPQVTYAYTKYMAANNQLQEAYEQLTHFVSTYSQELSCLPPEALKQQDQRLMARCYLRMATWQNKLQDSIRPDAIQGALECFEKATSYDPNWYKAWHLWAYMNFKVVQAQKSALDKQQPPGASMGMTMGSGLDSDLMIIQRYAVPAVQGFFRSISLIKGNSLQDTLRLLTLWFDYGNHAEVYEALLSGMKLIEINTWLQVIPQLIARIDTHRQLVGQLIHQLLMDIGKNHPQALVYPLTVASKSASLARRNAAFKILDSMRKHSPTLVEQAVMCSEELIRVAILWHEQWHEGLEEASRLYFGDRNVKGMFEILEPLHAMLERGPQTLKETSFSQAYGRELTEAYEWSQRYKTSAVVMDLDRAWDIYYHVFQKISRQLPQLTSLELPYVSPKLMTCKDLELAVPGSYNPGQELIRISIIKTNLQVITSKQRPRKLCIRGSNGKDYMYLLKGHEDLRQDERVMQLFSLVNTLLLDDPDTFRRNLAIQRYAVIPLSTNSGLIGWVPHCDTLHTLIRDYRDKKKVPLNQEHRTMLNFAPDYDHLTLMQKVEVFEHALGQTQGDDLAKLLWLKSPSSELWFERRNNYTRSLAVMSMVGYILGLGDRHPSNLMLDRMSGKILHIDFGDCFEVAMTREKFPEKIPFRLTRMLIKAMEVTGIEGTYRRTCESVMLVLRRNKDSLMAVLEAFVYDPLLNWRLLDVDKKGNDAVAGAGAPGGRGGSGMQDSLSNSVEDSLPMAKSKPYDPTLQQGGLHNNVADETNSKASQVIKRVKCKLTGTDFQTEKSVNEQSQVELLIQQATNNENLCQCYIGWCPFW |
| 4962 | sp|Q9H8W5|TRI45\_HUMAN | MSENRKPLLGFVSKLTSGTALGNSGKTHCPLCLGLFKAPRLLPCLHTVCTTCLEQLEPFSVVDIRGGDSDTSSEGSIFQELKPRSLQSQIGILCPVCDAQVDLPMGGVKALTIDHLAVNDVMLESLRGEGQGLVCDLCNDREVEKRCQTCKANLCHFCCQAHRRQKKTTYHTMVDLKDLKGYSRIGKPILCPVHPAEELRLFCEFCDRPVCQDCVVGEHREHPCDFTSNVIHKHGDSVWELLKGTQPHVEALEEALAQIHIINSALQKRVEAVAADVRTFSEGYIKAIEEHRDKLLKQLEDIRAQKENSLQLQKAQLEQLLADMRTGVEFTEHLLTSGSDLEILITKRVVVERLRKLNKVQYSTRPGVNDKIRFCPQEKAGQCRGYEIYGTINTKEVDPAKCVLQGEDLHRAREKQTASFTLLCKDAAGEIMGRGGDNVQVAVVPKDKKDSPVRTMVQDNKDGTYYISYTPKEPGVYTVWVCIKEQHVQGSPFTVMVRRKHRPHSGVFHCCTFCSSGGQKTARCACGGTMPGGYLGCGHGHKGHPGHPHWSCCGKFNEKSECTWTGGQSAPRSLLRTVAL |
| 4963 | sp|P30189|TOP1\_DROME | MSGDVAAENSIHIQNGGSCEVVQSNGVTTNGHGHHHHHHSSSSSSSKHKSSSKDKHRDREREHKSSNSSSSSKEHKSSSRDKDRHKSSSSSSKHRDKDKERDGSSNSHRSGSSSSHKDKDGSSSSKHKSSSGHHKRSSKDKERRDKDKDRGSSSSSRHKSSSSSRDKERSSSSHKSSSSSSSSKSKHSSSRHSSSSSSKDHPSYDGVFVKPEPVSQQLMHSGSVDAFQMQQLGSYEAAAAGTNFNGNGNVAGANYKNGYEESIVDIKKEEESFNNLSQASSCDYSMSQFRADEPPFVVKHEQSYAEEDSTMNYNDHDDDADEMNDDEEDVPLAMRKRKQEATDRPDGGMDNDDDDDIPLLARKKVKKEKIKKESKEKSKKRVKEEPSDDYGNVKPKKKKMKKEPEPAVSPGKRQKAKAKVEEEEVWRWWEEEKRADGVKWSTLEHKGPVFAPRYERVPRNVRFYYDGKPLELSEETEEAATFYAKMLNHDYCTKEVFNNNFFKDFRKSMTPREREIIKDFRKCNFQEMFNYFQAESEKRKAASKEEKLIKKNENEALMKEFGFCMIDGHKEKIGNFRLEPPGLFRGRGEHPKMGMIKRRIQASDVSINCGKDSKVPSPPPGSRWKEVRHDNTVTWLASWIENVQGQVKYIMLNPSSKLKGEKDHIKYETARRLDKVIDKIRATYRDEWKSKEMRVRQRAVALYFIDKLALRAGNEKDEDQADTVGCCSLRVEHVQLHKELNGKENVVVFDFPGKDSIRYYNEVEVEKRVFKNLELFMEHKKEGDDLFDRLNTQVLNEHLKELMEGLTAKVFRTYNASKTLQSQLDLLTDPSATVPEKLLAYNRANRAVAILCNHQRSVPKSHEKSMENLKEKIKAKREAIEKCESEYHSRDEKKGKQLERLRDQLKKLELQETDRDENKTIALGTSKLNYLDPRISVAWCKKHDVPIEKIFNKTQRTKFLWAVHMADENYRF |
| 4964 | sp|Q8WQX5|TUT1\_TRYBB | MVSKYHRLLQQGLREEEEGVTERNMVAGGEQRHGHVDDDNAEGDADFYDQKDERRAKMWNPKHESANVSAGGKQNRSVRDCLPGSLPPVANTSTDAAVRFDRERKNAGHGVDISCVEGDGAQMGTYVSTGRSDAKAGGGSSAIGVTADDESDGNLDTDGSDASEGDEVESTTDADVYGEDDTTEGPRGGVRLYSCDACPHAVFTTHAALLAHAEEHHADLLPDHARLRRIAQKLNPVWNRALNARRNTITSWGKKIFHVAAQRDAGESKMQEAHRARAQLECVVRRWHDKARVFIFGSSVAMGVWDGTADIDFAVVDVDAMERGSWPPLEKNAVRSITELLRRVGFSFVNLEPISHARVPIIKHHASSPILTVARRDAEDVVARSIRFILNGPATREDRLLLEGSVRDAVGPTGVQQVWWNRTSDMMSATLESTTAAVRAAMCSPALASASLRTKVQPAHDECRPELYNIDFDLSFRAFGIRNSTLLRKYLLSHPCARPGAIVLKDWSKTSGVNNSVNGYFTSYAINIMWIYYLVQKGYVPYVDPLEIPESLVNYTDFDPRYTPMIDPEITNTEREELYKAAGDMLVGFFYFYSFEFDWGHNVISLNRPGITTKRMLGWHVEDVVPVASTSVSSGGGGSNVKRHPTRYELCIEDPYEENLNLGRHIGVTKSLRVRTELYRGLLSLLKEGETRSCVFAAADSSGTPAAGGKQSAALPARALFKLMALTTQAISESRRLPQSNSDNSGRIANGDNESLTEVGGGHRVEGAGVDPASCAGASLSSFGEPPIGVHEKTLESIFVEKAPMEFQLVRKVWNWHQLIHRLGYKIHRGHVMPRREVGVRCTARRDAEETTTELASGVDTTKSLRPGRGLTDTMLRDLSRGYMTLTPEWVAWSAPWVSQHLRGYSRLTTVRSAVADETPPALATVPSVVKPPTGEAVMGAMRTTRRNAAPARRVELLKLWLWRGISKVTPFKSPR |
| 4965 | sp|P07996|TSP1\_HUMAN | MGLAWGLGVLFLMHVCGTNRIPESGGDNSVFDIFELTGAARKGSGRRLVKGPDPSSPAFRIEDANLIPPVPDDKFQDLVDAVRAEKGFLLLASLRQMKKTRGTLLALERKDHSGQVFSVVSNGKAGTLDLSLTVQGKQHVVSVEEALLATGQWKSITLFVQEDRAQLYIDCEKMENAELDVPIQSVFTRDLASIARLRIAKGGVNDNFQGVLQNVRFVFGTTPEDILRNKGCSSSTSVLLTLDNNVVNGSSPAIRTNYIGHKTKDLQAICGISCDELSSMVLELRGLRTIVTTLQDSIRKVTEENKELANELRRPPLCYHNGVQYRNNEEWTVDSCTECHCQNSVTICKKVSCPIMPCSNATVPDGECCPRCWPSDSADDGWSPWSEWTSCSTSCGNGIQQRGRSCDSLNNRCEGSSVQTRTCHIQECDKRFKQDGGWSHWSPWSSCSVTCGDGVITRIRLCNSPSPQMNGKPCEGEARETKACKKDACPINGGWGPWSPWDICSVTCGGGVQKRSRLCNNPTPQFGGKDCVGDVTENQICNKQDCPIDGCLSNPCFAGVKCTSYPDGSWKCGACPPGYSGNGIQCTDVDECKEVPDACFNHNGEHRCENTDPGYNCLPCPPRFTGSQPFGQGVEHATANKQVCKPRNPCTDGTHDCNKNAKCNYLGHYSDPMYRCECKPGYAGNGIICGEDTDLDGWPNENLVCVANATYHCKKDNCPNLPNSGQEDYDKDGIGDACDDDDDNDKIPDDRDNCPFHYNPAQYDYDRDDVGDRCDNCPYNHNPDQADTDNNGEGDACAADIDGDGILNERDNCQYVYNVDQRDTDMDGVGDQCDNCPLEHNPDQLDSDSDRIGDTCDNNQDIDEDGHQNNLDNCPYVPNANQADHDKDGKGDACDHDDDNDGIPDDKDNCRLVPNPDQKDSDGDGRGDACKDDFDHDSVPDIDDICPENVDISETDFRRFQMIPLDPKGTSQNDPNWVVRHQGKELVQTVNCDPGLAVGYDEFNAVDFSGTFFINTERDDDYAGFVFGYQSSSRFYVVMWKQVTQSYWDTNPTRAQGYSGLSVKVVNSTTGPGEHLRNALWHTGNTPGQVRTLWHDPRHIGWKDFTAYRWRLSHRPKTGFIRVVMYEGKKIMADSGPIYDKTYAGGRLGLFVFSQEMVFFSDLKYECRDP |
| 4966 | sp|Q5W5X9|TTC23\_HUMAN | MQESQETHISNHLDEVVAAVSITHRKKFQNKLLQTALFQPPREKLHLCEEKAKSYSNSHEYKQAVHELVRCVALTRICYGDSHWKLAEAHVNLAQGYLQLKGLSLQAKQHAEKARQILANSIVPPYSENTDVFKFSIELFHTMGRALLSLQKFKEAAENLTKAERLSKELLQCGRIIKEEWIEIEARIRLSFAQVYQGQKKSKEALSHYQAALEYVEISKGETSRECVPILRELAGVEQALGLHDVSINHFLQAHLIILSRSPSQVEAADSAHIVAHAAVASGRHEHHDVAEQYFQESMAHLKDSEGMGRTKFLSIQDEFCHFLQMTGQKERATSILRESLEAKVEAFGDFSPEVAETYRLLGGADLAQGNHSGARKKLKKCLQIQTLLYGPQDKRTLATQQAMGMLSTAPKVASKPRQASKAKVAFCTSIPQDTLLGKARPGTTAD |
| 4967 | sp|Q5T7W7|TSTD2\_HUMAN | MPSSTSPDQGDDLENCILRFSDLDLKDMSLINPSSSLKAELDGSTKKKYSFAKKKAFALFVKTKEVPTKRSFECKEKLWKCCRQLFTDQTSIHRHVATQHADEIYHQTASILKQLAVTLSTSKSLSSADEKNPLKECLPHSHDVSAWLPDISCFNPDELISGQGSEEGEVLLYYCYHDLEDPQWICAWQTALCQHLHLTGKIRIAAEGINGTVGGSKLATRLYVEVMLSFPLFKDDLCKDDFKTSKGGAHCFPELRVGVFEEIVPMGISPKKISYKKPGIHLSPGEFHKEVEKFLSQANQEQSDTILLDCRNFYESKIGRFQGCLAPDIRKFSYFPSYVDKNLELFREKRVLMYCTGGIRCERGSAYLKAKGVCKEVFQLKGGIHKYLEEFPDGFYKGKLFVFDERYALSYNSDVVSECSYCGARWDQYKLCSTPQCRQLVLTCPACQGQGFTACCVTCQDKGSRKVSGPMQDSFKEECECTARRPRIPRELLQHVRQPVSPEPGPDADEDGPVLM |
| 4968 | sp|Q6SA08|TSSK4\_HUMAN | MGKGDVLEAAPTTTAYHSLMDEYGYEVGKAIGHGSYGSVYEAFYTKQKVMVAVKIISKKKASDDYLNKFLPREIQVMKVLRHKYLINFYRAIESTSRVYIILELAQGGDVLEWIQRYGACSEPLAGKWFSQLTLGIAYLHSKSIVHRDLKLENLLLDKWENVKISDFGFAKMVPSNQPVGCSPSYRQVNCFSHLSQTYCGSFAYACPEILRGLPYNPFLSDTWSMGVILYTLVVAHLPFDDTNLKKLLRETQKEVTFPANHTISQECKNLILQMLRQATKRATILDIIKDSWVLKFQPEQPTHEIRLLEAMCQLHNTTKQHQSLQITT |
| 4969 | sp|P34760|TSA1\_YEAST | MVAQVQKQAPTFKKTAVVDGVFDEVSLDKYKGKYVVLAFIPLAFTFVCPTEIIAFSEAAKKFEEQGAQVLFASTDSEYSLLAWTNIPRKEGGLGPINIPLLADTNHSLSRDYGVLIEEEGVALRGLFIIDPKGVIRHITINDLPVGRNVDEALRLVEAFQWTDKNGTVLPCNWTPGAATIKPTVEDSKEYFEAANK |
| 4970 | sp|P42681|TXK\_HUMAN | MILSSYNTIQSVFCCCCCCSVQKRQMRTQISLSTDEELPEKYTQRRRPWLSQLSNKKQSNTGRVQPSKRKPLPPLPPSEVAEEKIQVKALYDFLPREPCNLALRRAEEYLILEKYNPHWWKARDRLGNEGLIPSNYVTENKITNLEIYEWYHRNITRNQAEHLLRQESKEGAFIVRDSRHLGSYTISVFMGARRSTEAAIKHYQIKKNDSGQWYVAERHAFQSIPELIWYHQHNAAGLMTRLRYPVGLMGSCLPATAGFSYEKWEIDPSELAFIKEIGSGQFGVVHLGEWRSHIQVAIKAINEGSMSEEDFIEEAKVMMKLSHSKLVQLYGVCIQRKPLYIVTEFMENGCLLNYLRENKGKLRKEMLLSVCQDICEGMEYLERNGYIHRDLAARNCLVSSTCIVKISDFGMTRYVLDDEYVSSFGAKFPIKWSPPEVFLFNKYSSKSDVWSFGVLMWEVFTEGKMPFENKSNLQVVEAISEGFRLYRPHLAPMSIYEVMYSCWHEKPEGRPTFAELLRAVTEIAETW |
| 4971 | sp|Q6EMB2|TTLL5\_HUMAN | MPIVMARDLEETASSSEDEEVISQEDHPCIMWTGGCRRIPVLVFHADAILTKDNNIRVIGERYHLSYKIVRTDSRLVRSILTAHGFHEVHPSSTDYNLMWTGSHLKPFLLRTLSEAQKVNHFPRSYELTRKDRLYKNIIRMQHTHGFKAFHILPQTFLLPAEYAEFCNSYSKDRGPWIVKPVASSRGRGVYLINNPNQISLEENILVSRYINNPLLIDDFKFDVRLYVLVTSYDPLVIYLYEEGLARFATVRYDQGAKNIRNQFMHLTNYSVNKKSGDYVSCDDPEVEDYGNKWSMSAMLRYLKQEGRDTTALMAHVEDLIIKTIISAELAIATACKTFVPHRSSCFELYGFDVLIDSTLKPWLLEVNLSPSLACDAPLDLKIKASMISDMFTVVGFVCQDPAQRASTRPIYPTFESSRRNPFQKPQRCRPLSASDAEMKNLVGSAREKGPGKLGGSVLGLSMEEIKVLRRVKEENDRRGGFIRIFPTSETWEIYGSYLEHKTSMNYMLATRLFQDRMTADGAPELKIESLNSKAKLHAALYERKLLSLEVRKRRRRSSRLRAMRPKYPVITQPAEMNVKTETESEEEEEVALDNEDEEQEASQEESAGFLRENQAKYTPSLTALVENTPKENSMKVREWNNKGGHCCKLETQELEPKFNLMQILQDNGNLSKMQARIAFSAYLQHVQIRLMKDSGGQTFSASWAAKEDEQMELVVRFLKRASNNLQHSLRMVLPSRRLALLERRRILAHQLGDFIIVYNKETEQMAEKKSKKKVEEEEEDGVNMENFQEFIRQASEAELEEVLTFYTQKNKSASVFLGTHSKISKNNNNYSDSGAKGDHPETIMEEVKIKPPKQQQTTEIHSDKLSRFTTSAEKEAKLVYSNSSSGPTATLQKIPNTHLSSVTTSDLSPGPCHHSSLSQIPSAIPSMPHQPTILLNTVSASASPCLHPGAQNIPSPTGLPRCRSGSHTIGPFSSFQSAAHIYSQKLSRPSSAKAGSCYLNKHHSGIAKTQKEGEDASLYSKRYNQSMVTAELQRLAEKQAARQYSPSSHINLLTQQVTNLNLATGIINRSSASAPPTLRPIISPSGPTWSTQSDPQAPENHSSSPGSRSLQTGGFAWEGEVENNVYSQATGVVPQHKYHPTAGSYQLQFALQQLEQQKLQSRQLLDQSRARHQAIFGSQTLPNSNLWTMNNGAGCRISSATASGQKPTTLPQKVVPPPSSCASLVPKPPPNHEQVLRRATSQKASKGSSAEGQLNGLQSSLNPAAFVPITSSTDPAHTKI |
| 4972 | sp|Q9BTM9|URM1\_HUMAN | MAAPLSVEVEFGGGAELLFDGIKKHRVTLPGQEEPWDIRNLLIWIKKNLLKERPELFIQGDSVRPGILVLINDADWELLGELDYQLQDQDSVLFISTLHGG |
| 4973 | sp|Q8LDN8|UGE3\_ARATH | MGSSVEQNILVTGGAGFIGTHTVVQLLNQGFKVTIIDNLDNSVVEAVHRVRELVGPDLSTKLEFNLGDLRNKGDIEKLFSNQRFDAVIHFAGLKAVGESVGNPRRYFDNNLVGTINLYETMAKYNCKMMVFSSSATVYGQPEIVPCVEDFELQAMNPYGRTKLFLEEIARDIHAAEPEWKIILLRYFNPVGAHESGRIGEDPKGIPNNLMPYIQQVAVGRLPELNVFGHDYPTMDGSAVRDYIHVMDLADGHVAALNKLFSDSKIGCTAYNLGTGQGTSVLEMVSSFEKASGKKIPIKLCPRRAGDATAVYASTQKAEKELGWKAKYGVDEMCRDQWNWANKNPWGFQKKP |
| 4974 | sp|Q9NYU1|UGGG2\_HUMAN | MAPAKATNVVRLLLGSTALWLSQLGSGTVAASKSVTAHLAAKWPETPLLLEASEFMAEESNEKFWQFLETVQELAIYKQTESDYSYYNLILKKAGQFLDNLHINLLKFAFSIRAYSPAIQMFQQIAADEPPPDGCNAFVVIHKKHTCKINEIKKLLKKAASRTRPYLFKGDHKFPTNKENLPVVILYAEMGTRTFSAFHKVLSEKAQNEEILYVLRHYIQKPSSRKMYLSGYGVELAIKSTEYKALDDTQVKTVTNTTVEDETETNEVQGFLFGKLKEIYSDLRDNLTAFQKYLIESNKQMMPLKVWELQDLSFQAASQIMSAPVYDSIKLMKDISQNFPIKARSLTRIAVNQHMREEIKENQKDLQVRFKIQPGDARLFINGLRVDMDVYDAFSILDMLKLEGKMMNGLRNLGINGEDMSKFLKLNSHIWEYTYVLDIRHSSIMWINDLENDDLYITWPTSCQKLLKPVFPGSVPSIRRNFHNLVLFIDPAQEYTLDFIKLADVFYSHEVPLRIGFVFILNTDDEVDGANDAGVALWRAFNYIAEEFDISEAFISIVHMYQKVKKDQNILTVDNVKSVLQNTFPHANIWDILGIHSKYDEERKAGASFYKMTGLGPLPQALYNGEPFKHEEMNIKELKMAVLQRMMDASVYLQREVFLGTLNDRTNAIDFLMDRNNVVPRINTLILRTNQQYLNLISTSVTADVEDFSTFFFLDSQDKSAVIAKNMYYLTQDDESIISAVTLWIIADFDKPSGRKLLFNALKHMKTSVHSRLGIIYNPTSKINEENTAISRGILAAFLTQKNMFLRSFLGQLAKEEIATAIYSGDKIKTFLIEGMDKNAFEKKYNTVGVNIFRTHQLFCQDVLKLRPGEMGIVSNGRFLGPLDEDFYAEDFYLLEKITFSNLGEKIKGIVENMGINANNMSDFIMKVDALMSSVPKRASRYDVTFLRENHSVIKTNPQENDMFFNVIAIVDPLTREAQKMAQLLVVLGKIINMKIKLFMNCRGRLSEAPLESFYRFVLEPELMSGANDVSSLGPVAKFLDIPESPLLILNMITPEGWLVETVHSNCDLDNIHLKDTEKTVTAEYELEYLLLEGQCFDKVTEQPPRGLQFTLGTKNKPAVVDTIVMAHHGYFQLKANPGAWILRLHQGKSEDIYQIVGHEGTDSQADLEDIIVVLNSFKSKILKVKVKKETDKIKEDILTDEDEKTKGLWDSIKSFTVSLHKENKKEKDVLNIFSVASGHLYERFLRIMMLSVLRNTKTPVKFWLLKNYLSPTFKEVIPHMAKEYGFRYELVQYRWPRWLRQQTERQRIIWGYKILFLDVLFPLAVDKIIFVDADQIVRHDLKELRDFDLDGAPYGYTPFCDSRREMDGYRFWKTGYWASHLLRRKYHISALYVVDLKKFRRIGAGDRLRSQYQALSQDPNSLSNLDQDLPNNMIYQVAIKSLPQDWLWCETWCDDESKQRAKTIDLCNNPKTKESKLKAAARIVPEWVEYDAEIRQLLDHLENKKQDTILTHDEL |
| 4975 | sp|Q18685|UN112\_CAEEL | MAHLVEGTSIIDGKWQLPILVTDLNIQRSISVLGNLNVGGLMLELVSECDVERDWSDHALWWPEKRRWLQHTRSTLDQNGITAETQLEFTPMHKEARIQLPDMQMIDARVDFSVNSFKATKKLCRDLGIRYSEELSLKRYIPPEDLRRGTSDADNMNGPLSMRPGEESVGPMTLRKAAPIFASQSNLDMRRRGQSPALSQSGHIFNAHEMGTLPRHGTLPRGVSPSPGAYNDTMRRTPIMPSISFSEGLENEQFDDALIHSPRLAPSRDTPVFRPQNYVEKAAINRGWLDSSRSLMEQGIFEGDIILLRFKFMNFFDLNPKYDPVRINQLYEQAKWSILLDEFDHTEEEATLFAALQLQATLQRDSPEPEENNKDDVDILLDELEQNLDAAALNRRSDLTQVPELADYLKYMKPKKLAAFKGFKRAFFSFRDLYLSYHQSSSDVNSAPLGHFSLKGCEVSQDVSVGQQKYHIKLLLPTAEGMIDFILKCDSEHQYARWMAACRLASRGKSMADSSYQQEVESIKNLLKMQSGNGNENGNSNTASRKAAAVKLPNDFNVDEYISSKYVRRARSKQQIQQRVSDAHGNVRQLTATEAKLQYIRAWQALPEHGIHYFIVRFRNARKAELVAVAVNRLAKLNMDNGESLKTWRFANMKKWHVNWEIRHLKIQFEDEDIEFKPLSADCKVVHEFIGGYIFLSMRSKEHSQNLDEELFHKLTGGWA |
| 4976 | sp|P42945|UTP10\_YEAST | MSSLSDQLAQVASNNATVALDRKRRQKLHSASLIYNSKTAATQDYDFIFENASKALEELSQIEPKFAIFSRTLFSESSISLDRNVQTKEEIKDLDNAINAYLLLASSKWYLAPTLHATEWLVRRFQIHVKNTEMLLLSTLNYYQTPVFKRILSIIKLPPLFNCLSNFVRSEKPPTALTMIKLFNDMDFLKLYTSYLDQCIKHNATYTNQLLFTTCCFINVVAFNSNNDEKLNQLVPILLEISAKLLASKSKDCQIAAHTILVVFATALPLKKTIILAAMETILSNLDAKEAKHSALLTICKLFQTLKGQGNVDQLPSKIFKLFDSKFDTVSILTFLDKEDKPVCDKFITSYTRSIARYDRSKLNIILSLLKKIRLERYEVRLIITDLIYLSEILEDKSQLVELFEYFISINEDLVLKCLKSLGLTGELFEIRLTTSLFTNADVNTDIVKQLSDPVETTKKDTASFQTFLDKHSELINTTNVSMLTETGERYKKVLSLFTEAIGKGYKASSFLTSFFTTLESRITFLLRVTISPAAPTALKLISLNNIAKYINSIEKEVNIFTLVPCLICALRDASIKVRTGVKKILSLIAKRPSTKHYFLSDKLYGENVTIPMLNPKDSEAWLSGFLNEYVTENYDISRILTPKRNEKVFLMFWANQALLIPSPYAKTVLLDNLNKSPTYASSYSSLFEEFISHYLENRSSWEKSCIANKTNFEHFERSLVNLVSPKEKQSFMIDFVLSALNSDYEQLANIAAERLISIFASLNNAQKLKIVQNIVDSSSNVESSYDTVGVLQSLPLDSDIFVSILNQNSISNEMDQTDFSKRRRRRSSTSKNAFLKEEVSQLAELHLRKLTIILEALDKVRNVGSEKLLFTLLSLLSDLETLDQDGGLPVLYAQETLISCTLNTITYLKEHGCTELTNVRADILVSAIRNSASPQVQNKLLLVIGSLATLSSEVILHSVMPIFTFMGAHSIRQDDEFTTKVVERTILTVVPALIKNSKGNEKEEMEFLLLSFTTALQHVPRHRRVKLFSTLIKTLDPVKALGSFLFLIAQQYSSALVNFKIGEARILIEFIKALLVDLHVNEELSGLNDLLDIIKLLTSSKSSSEKKKSLESRVLFSNGVLNFSESEFLTFMNNTFEFINKITEETDQDYYDVRRNLRLKVYSVLLDETSDKKLIRNIREEFGTLLEGVLFFINSVELTFSCITSQENEEASDSETSLSDHTTEIKEILFKVLGNVLQILPVDEFVNAVLPLLSTSTNEDIRYHLTLVIGSKFELEGSEAIPIVNNVMKVLLDRMPLESKSVVISQVILNTMTALVSKYGKKLEGSILTQALTLATEKVSSDMTEVKISSLALITNCVQVLGVKSIAFYPKIVPPSIKLFDASLADSSNPLKEQLQVAILLLFAGLIKRIPSFLMSNILDVLHVIYFSREVDSSIRLSVISLIIENIDLKEVLKVLFRIWSTEIATSNDTVAVSLFLSTLESTVENIDKKSATSQSPIFFKLLLSLFEFRSISSFDNNTISRIEASVHEISNSYVLKMNDKVFRPLFVILVRWAFDGEGVTNAGITETERLLAFFKFFNKLQENLRGIITSYFTYLLEPVDMLLKRFISKDMENVNLRRLVINSLTSSLKFDRDEYWKSTSRFELISVSLVNQLSNIENSIGKYLVKAIGALASNNSGVDEHNQILNKLIVEHMKASCSSNEKLWAIRAMKLIYSKIGESWLVLLPQLVPVIAELLEDDDEEIEREVRTGLVKVVENVLGEPFDRYLD |
| 4977 | sp|Q8N6Y0|USBP1\_HUMAN | MSARATRPRSRRGRHAPPGELDPVAESSEEVEAASGSSKPSFAPPPVSSGLEQLGPMEEVSGQGLGSRTDKKMDGGSGRELASAPEVPHKPAVEAHQAPEAALQYKETVPPGNGAPDVFQTLQHTLSSLEAAAAAWRHQPPSHSGPMEFEGTSEGGAGSLGKQEGAGSCQREAARLAERNAWLRLALSSREDELVRTQASLEAIRAEKETLQKEVQELQDSLLRLEPCPHLSHNQAGGSGSGSSSSEADREPWETQDSFSLAHPLLRRLRSHSSTQILGSLPNQPLSPEMHIMEAQMEQLRGSIEKLKCFNRLLSAVLQGYKGRCEGLSMQLGQREAEATALHLALQYSEHCEEAYRVLLALREADSGAGDEAPMSDLQAAEKEAWRLLAQEEAAMDAGAQQNPQPSPEGSSVDKPTPQEVAFQLRSYVQRLQERRSLMKILSEPGPTLAPMPTVPRAEAMVQAILGTQAGPALPRLEKTQIQQDLVAAREALADLMLRLQLVRREKRGLELREAALRALGPAHVLLLEQLRWERAELQAGGANSSGGHSSGGGSSGDEEEWYQGLPAVPGGTSGIDGGQVGRAWDPEKLAQELAASLTRTLDLQEQLQSLRRELEQVAQKGRARRSQSAELNRDLCKAHSALVLAFRGAHRKQEEQRRKLEQQMALMEAQQAEEVAVLEATARALGKPRPPLPPPQLGDTFL |
| 4978 | sp|P61085|UBE2K\_BOVIN | MANIAVQRIKREFKEVLKSEETSKNQIKVDLVDENFTELRGEIAGPPDTPYEGGRYQLEIKIPETYPFNPPKVRFITKIWHPNISSVTGAICLDILKDQWAAAMTLRTVLLSLQALLAAAEPDDPQDAVVANQYKQNPEMFKQTARLWAHVYAGAPVSSPEYTKKIENLCAMGFDRNAVIVALSSKSWDVETATELLLSN |
| 4979 | sp|Q9Y5K5|UCHL5\_HUMAN | MTGNAGEWCLMESDPGVFTELIKGFGCRGAQVEEIWSLEPENFEKLKPVHGLIFLFKWQPGEEPAGSVVQDSRLDTIFFAKQVINNACATQAIVSVLLNCTHQDVHLGETLSEFKEFSQSFDAAMKGLALSNSDVIRQVHNSFARQQMFEFDTKTSAKEEDAFHFVSYVPVNGRLYELDGLREGPIDLGACNQDDWISAVRPVIEKRIQKYSEGEIRFNLMAIVSDRKMIYEQKIAELQRQLAEEEPMDTDQGNSMLSAIQSEVAKNQMLIEEEVQKLKRYKIENIRRKHNYLPFIMELLKTLAEHQQLIPLVEKAKEKQNAKKAQETK |
| 4980 | sp|Q93050|VPP1\_HUMAN | MGELFRSEEMTLAQLFLQSEAAYCCVSELGELGKVQFRDLNPDVNVFQRKFVNEVRRCEEMDRKLRFVEKEIRKANIPIMDTGENPEVPFPRDMIDLEANFEKIENELKEINTNQEALKRNFLELTELKFILRKTQQFFDEMADPDLLEESSSLLEPSEMGRGTPLRLGFVAGVINRERIPTFERMLWRVCRGNVFLRQAEIENPLEDPVTGDYVHKSVFIIFFQGDQLKNRVKKICEGFRASLYPCPETPQERKEMASGVNTRIDDLQMVLNQTEDHRQRVLQAAAKNIRVWFIKVRKMKAIYHTLNLCNIDVTQKCLIAEVWCPVTDLDSIQFALRRGTEHSGSTVPSILNRMQTNQTPPTYNKTNKFTYGFQNIVDAYGIGTYREINPAPYTIITFPFLFAVMFGDFGHGILMTLFAVWMVLRESRILSQKNENEMFSTVFSGRYIILLMGVFSMYTGLIYNDCFSKSLNIFGSSWSVRPMFTYNWTEETLRGNPVLQLNPALPGVFGGPYPFGIDPIWNIATNKLTFLNSFKMKMSVILGIIHMLFGVSLSLFNHIYFKKPLNIYFGFIPEIIFMTSLFGYLVILIFYKWTAYDAHTSENAPSLLIHFINMFLFSYPESGYSMLYSGQKGIQCFLVVVALLCVPWMLLFKPLVLRRQYLRRKHLGTLNFGGIRVGNGPTEEDAEIIQHDQLSTHSEDADEPSEDEVFDFGDTMVHQAIHTIEYCLGCISNTASYLRLWALSLAHAQLSEVLWTMVIHIGLSVKSLAGGLVLFFFFTAFATLTVAILLIMEGLSAFLHALRLHWVEFQNKFYSGTGFKFLPFSFEHIREGKFEE |
| 4981 | sp|Q9P7V9|UBP9\_SCHPO | MSLLRWMGMNSPGSTDRRKSTWEAELPKPSIRPETLTDRFYGLTNYGNTCYVSSVLVSLYHLKPFRDSLNSYPLPSAPPNFKSVCTKTNHPESSSSRHSKKKSMENRKSSLYGSNGINSCGCVDISNVGSESGTKHQIVVGESNCSAYGMKENIYTCLKDLYCSVSCCDCRYGICSPERFIQVLRRDNEAFRSTQQQDAHEFFNFLLNSVTETLDEYYGNHSDVMHPKWVHSLFEGTLTSETKCLTCENITSRDESFLDLSIDIENHTSVTSCLRSFSASEMLSSKNKFHCDVCKSLQEAEKRMKIKKLPKILSLHLKRFKYNETQEGHDKLFYTIVFTNEMRLFTTTEDAENAERMYYLSSVIVHVGGGPHRGHYVSIVRTKTYGWVLFDDENVTPVNENYLQRFFGDQPGQATAYVLFYTAADEEDDDVSEVDTKESIKPMSIPSQLKQESVEVSNLSSTPRSNSTITYPDMDPMVASFSSQYSHKTLDRDINSRSYFDREPSLDAERFHSRSVDASPKAVRRESRSFFPSLTRKRSKFFGSSQSNSPKDSPLRDTHKSSDEHSESKHSHTLPWQFSRSRSKR |
| 4982 | sp|P53254|UTP22\_YEAST | MATSVKRKASETSDQNIVKVQKKHSTQDSTTDNGSKENDHSSQAINERTVPEQENDESDTSPESNEVATNTAATRHNGKVTATESYDIHIARETAELFKSNIFKLQIDELLEQVKLKQKHVLKVEKFLHKLYDILQEIPDWEEKSLAEVDSFFKNKIVSVPFVDPKPIPQNTNYKFNYKKPDISLIGSFALKAGIYQPNGSSIDTLLTMPKELFEKKDFLNFRCLHKRSVYLAYLTHHLLILLKKDKLDSFLQLEYSYFDNDPLLPILRISCSKPTGDSLSDYNFYKTRFSINLLIGFPYKVFEPKKLLPNRNCIRIAQESKEQSLPATPLYNFSVLSSSTHENYLKYLYKTKKQTESFVEATVLGRLWLQQRGFSSNMSHSGSLGGFGTFEFTILMAALLNGGGINSNKILLHGFSSYQLFKGVIKYLATMDLCHDGHLQFHSNPENSSSSPASKYIDEGFQTPTLFDKSTKVNILTKMTVSSYQILKEYAGETLRMLNNVVQDQFSNIFLTNISRFDNLKYDLCYDVQLPLGKYNNLETSLAATFGSMERVKFITLENFLAHKITNVARYALGDRIKYIQIEMVGQKSDFPITKRKVYSNTGGNHFNFDFVRVKLIVNPSECDKLVTKGPAHSETMSTEAAVFKNFWGIKSSLRRFKDGSITHCCVWSTSSSEPIISSIVNFALQKHVSKKAQISNETIKKFHNFLPLPNLPSSAKTSVLNLSSFFNLKKSFDDLYKIIFQMKLPLSVKSILPVGSAFRYTSLCQPVPFAYSDPDFFQDVILEFETSPKWPDEITSLEKAKTAFLLKIQEELSANSSTYRSFFSRDESIPYNLEIVTLNILTPEGYGFKFRVLTERDEILYLRAIANARNELKPELEATFLKFTAKYLASVRHTRTLENISHSYQFYSPVVRLFKRWLDTHLLLGHITDELAELIAIKPFVDPAPYFIPGSLENGFLKVLKFISQWNWKDDPLILDLVKPEDDIRDTFETSIGAGSELDSKTMKKLSERLTLAQYKGIQMNFTNLRNSDPNGTHLQFFVASKNDPSGILYSSGIPLPIATRLTALAKVAVNLLQTHGLNQQTINLLFTPGLKDYDFVVDLRTPIGLKSSCGILSATEFKNITNDQAPSNFPENLNDLSEKMDPTYQLVKYLNLKYKNSLILSSRKYIGVNGGEKGDKNVITGLIKPLFKGAHKFRVNLDCNVKPVDDENVILNKEAIFHEIAAFGNDMVINFETD |
| 4983 | sp|P34223|UBX1\_YEAST | MAEIPDETIQQFMALTNVSHNIAVQYLSEFGDLNEALNSYYASQTDDQKDRREEAHWNRQQEKALKQEAFSTNSSNKAINTEHVGGLCPKPGSSQGSNEYLKRKGSTSPEPTKGSSRSGSGNNSRFMSFSDMVRGQADDDDEDQPRNTFAGGETSGLEVTDPSDPNSLLKDLLEKARRGGQMGAENGFRDDEDHEMGANRFTGRGFRLGSTIDAADEVVEDNTSQSQRRPEKVTREITFWKEGFQVADGPLYRYDDPANSFYLSELNQGRAPLKLLDVQFGQEVEVNVYKKLDESYKAPTRKLGGFSGQGQRLGSPIPGESSPAEVPKNETPAAQEQPMPDNEPKQGDTSIQIRYANGKREVLHCNSTDTVKFLYEHVTSNANTDPSRNFTLNYAFPIKPISNDETTLKDADLLNSVVVQRWA |
| 4984 | sp|P03087|VP1\_SV40 | MAPTKRKGSCPGAAPKKPKEPVQVPKLVIKGGIEVLGVKTGVDSFTEVECFLNPQMGNPDEHQKGLSKSLAAEKQFTDDSPDKEQLPCYSVARIPLPNINEDLTCGNILMWEAVTVKTEVIGVTAMLNLHSGTQKTHENGAGKPIQGSNFHFFAVGGEPLELQGVLANYRTKYPAQTVTPKNATVDSQQMNTDHKAVLDKDNAYPVECWVPDPSKNENTRYFGTYTGGENVPPVLHITNTATTVLLDEQGVGPLCKADSLYVSAVDICGLFTNTSGTQQWKGLPRYFKITLRKRSVKNPYPISFLLSDLINRRTQRVDGQPMIGMSSQVEEVRVYEDTEELPGDPDMIRYIDEFGQTTTRMQ |
| 4985 | sp|Q8NFA0|UBP32\_HUMAN | MGAKESRIGFLSYEEALRRVTDVELKRLKDAFKRTCGLSYYMGQHCFIREVLGDGVPPKVAEVIYCSFGGTSKGLHFNNLIVGLVLLTRGKDEEKAKYIFSLFSSESGNYVIREEMERMLHVVDGKVPDTLRKCFSEGEKVNYEKFRNWLFLNKDAFTFSRWLLSGGVYVTLTDDSDTPTFYQTLAGVTHLEESDIIDLEKRYWLLKAQSRTGRFDLETFGPLVSPPIRPSLSEGLFNAFDENRDNHIDFKEISCGLSACCRGPLAERQKFCFKVFDVDRDGVLSRVELRDMVVALLEVWKDNRTDDIPELHMDLSDIVEGILNAHDTTKMGHLTLEDYQIWSVKNVLANEFLNLLFQVCHIVLGLRPATPEEEGQIIRGWLERESRYGLQAGHNWFIISMQWWQQWKEYVKYDANPVVIEPSSVLNGGKYSFGTAAHPMEQVEDRIGSSLSYVNTTEEKFSDNISTASEASETAGSGFLYSATPGADVCFARQHNTSDNNNQCLLGANGNILLHLNPQKPGAIDNQPLVTQEPVKATSLTLEGGRLKRTPQLIHGRDYEMVPEPVWRALYHWYGANLALPRPVIKNSKTDIPELELFPRYLLFLRQQPATRTQQSNIWVNMGNVPSPNAPLKRVLAYTGCFSRMQTIKEIHEYLSQRLRIKEEDMRLWLYNSENYLTLLDDEDHKLEYLKIQDEQHLVIEVRNKDMSWPEEMSFIANSSKIDRHKVPTEKGATGLSNLGNTCFMNSSIQCVSNTQPLTQYFISGRHLYELNRTNPIGMKGHMAKCYGDLVQELWSGTQKNVAPLKLRWTIAKYAPRFNGFQQQDSQELLAFLLDGLHEDLNRVHEKPYVELKDSDGRPDWEVAAEAWDNHLRRNRSIVVDLFHGQLRSQVKCKTCGHISVRFDPFNFLSLPLPMDSYMHLEITVIKLDGTTPVRYGLRLNMDEKYTGLKKQLSDLCGLNSEQILLAEVHGSNIKNFPQDNQKVRLSVSGFLCAFEIPVPVSPISASSPTQTDFSSSPSTNEMFTLTTNGDLPRPIFIPNGMPNTVVPCGTEKNFTNGMVNGHMPSLPDSPFTGYIIAVHRKMMRTELYFLSSQKNRPSLFGMPLIVPCTVHTRKKDLYDAVWIQVSRLASPLPPQEASNHAQDCDDSMGYQYPFTLRVVQKDGNSCAWCPWYRFCRGCKIDCGEDRAFIGNAYIAVDWDPTALHLRYQTSQERVVDEHESVEQSRRAQAEPINLDSCLRAFTSEEELGENEMYYCSKCKTHCLATKKLDLWRLPPILIIHLKRFQFVNGRWIKSQKIVKFPRESFDPSAFLVPRDPALCQHKPLTPQGDELSEPRILAREVKKVDAQSSAGEEDVLLSKSPSSLSANIISSPKGSPSSSRKSGTSCPSSKNSSPNSSPRTLGRSKGRLRLPQIGSKNKLSSSKENLDASKENGAGQICELADALSRGHVLGGSQPELVTPQDHEVALANGFLYEHEACGNGYSNGQLGNHSEEDSTDDQREDTRIKPIYNLYAISCHSGILGGGHYVTYAKNPNCKWYCYNDSSCKELHPDEIDTDSAYILFYEQQGIDYAQFLPKTDGKKMADTSSMDEDFESDYKKYCVLQ |
| 4986 | sp|Q19954|VPS41\_CAEEL | MDETHENEASDSFDPVFENSYHDDVTFNTEDDDEPPLEPRFKYERLKGEETLPFMKTATFTSIDLHDKFIAIGTATGLIYILDHHGYGNFDSVPPLKPHRCAVSKVKFDETGSYVLSCANDSKIVVSGVGNDKLCCTINIQVMPKSIYFSPDFIRQQSGHCFIMGERNLVLYEKRMFQYKASSLYSGSERDGFIHCCSWNENLIAFTNDTGTRVYERGAERIITSVQPSHDVDRVRSSRSPPKHTWMPENNLVIGWADTVTILKIRDDDGVKKGEVHHIFHVSMFICGISYIPESGIDNMELFLVGLQLEGEDFDDCASVISTVTTLTALESSACTILKTSVIRPLGLKEFELQSEDMIESVKLSNHTLPYMIHGLGIPYLATYFILTTKHIIMAVPYGPEDGIRWRLKYKLYDEALDMAKHNADLLSKTDLSPKKVGRMIIEGYLTGKRARAAASRLPLICGECKEEWEWAVNQFEEVKLCTLLAEVLPDGTPTLDPECYQKVLIACLFNNVKQFRKLVQTWSPDLYMTSFIIDRTQWRIQQISKSGNLADVDETERVLMDALAHLYLYERKYESALKILMSCQDFQIFNVIDKHQLFDLVKDQITELMNINSERALRLLLDNADSVEPSFVMEKIGRQPKLQLAYLTKLMSRNEGTEFADKAVQLYAEYDQKKLLPFLRKNANYNVNKARKLCSDKGYIEETIYLLAKSGNHYDAVKMMVREYRNMEKVIDYCKDQNDPDLWIHLLGVVAEFPAHFSQLIIEASNCLDPLLIMDKLPDDSDIPNLSEALDKLLVDYTNHAELQQCCYDSTLNDLNVLTQGLISAADESVSVNIVSRCSLCAQIIINSNQETTKKFSDIKVFKCGHIFHLACSTSEMERRQSIEEGLCIACSDQIELINV |
| 4987 | sp|Q9UI12|VATH\_HUMAN | MTKMDIRGAVDAAVPTNIIAAKAAEVRANKVNWQSYLQGQMISAEDCEFIQRFEMKRSPEEKQEMLQTEGSQCAKTFINLMTHICKEQTVQYILTMVDDMLQENHQRVSIFFDYARCSKNTAWPYFLPMLNRQDPFTVHMAARIIAKLAAWGKELMEGSDLNYYFNWIKTQLSSQKLRGSGVAVETGTVSSSDSSQYVQCVAGCLQLMLRVNEYRFAWVEADGVNCIMGVLSNKCGFQLQYQMIFSIWLLAFSPQMCEHLRRYNIIPVLSDILQESVKEKVTRIILAAFRNFLEKSTERETRQEYALAMIQCKVLKQLENLEQQKYDDEDISEDIKFLLEKLGESVQDLSSFDEYSSELKSGRLEWSPVHKSEKFWRENAVRLNEKNYELLKILTKLLEVSDDPQVLAVAAHDVGEYVRHYPRGKRVIEQLGGKQLVMNHMHHEDQQVRYNALLAVQKLMVHNWEYLGKQLQSEQPQTAAARS |
| 4988 | sp|P12476|VP7\_ROTRH | MYGIEYTTVLTFLISLILLNYILKSLTRMMDFIIYRFLFIVVILSPLLKAQNYGINLPITGSMDTAYANSTQEETFLTSTLCLYYPTEAATEINDNSWKDTLSQLFLTKGWPTGSVYFKEYTDIASFSVDPQLYCDYNVVLMKYDATLQLDMSELADLILNEWLCNPMDITLYYYQQTDEANKWISMGSSCTIKVCPLNTQTLGIGCLTTDTATFEEVATAEKLVITDVVDGVNHKLDVTTATCTIRNCKKLGPRENVAVIQVGGSDVLDITADPTTAPQTERMMRINWKKWWQVFYTVVDYVNQIIQAMSKRSRSLNSAAFYYRI |
| 4989 | sp|Q9R0C8|VAV3\_MOUSE | MEPWKQCAQWLIHSKVLPPNHRVTWDSAQVFDLAQTLRDGVLLCQLLNNLRPHSINLKEINLRPQMSQFLCLKNIRTFLAACCDTFGMRKSELFEAFDLFDVRDFGKVIETLSRLSRTPIALATGIRPFPTEESINDEDIYKGLPDLIDETRVEDEEDLYDCVYGEDEGGEVYEDLMKAEEAQQPKSQENDIRSCCLAEIRQTEEKYTETLESIEKYFMAPLKRFLTAAEFDSVFINIPDLVKVHRSLMQEIHDSIVNKDDQNLYQVFINYKERLVIYGQYCSGVESAISNLDYISKTKEDVKLKLEECSKRANNGKFTLRDLLVVPMQRVLKYHLLLQELVKHTHDPMEKANLKLALDAMKDLAQYVNEVKRDNETLREIKQFQLSIENLNQPVLLFGRPQGDGEIRITTLDKHTKQERHIFLFDLAVIVCKRKGDNYEMKEIIDLQQYKIANNPTTDKENKKWSYGFYLIHTQGQNGLEFYCKTKDLKKKWLEQFEMALSNIRPDYADSNFHDFKMHTFTRVTSCRVCQMLLRGTFYQGYLCFKCGAKAHKECLGRVDNCGRVNSVEQGPFKPPEKRTNGLRRASRQVDPGLPKMQVIRNYTGTPAPGLHEGPPLHIQAGDTVELLRGDAHSVFWQGRNLASGEVGFFPSDAVKPSPCVPKPVDYSCQPWYAGPMERLQAETELINRVNSTYLVRHRTKESGEYAISIKYNNEAKHIKILTRDGFFHIAENRKFKSLMELVEYYKHHSLKEGFRTLDTTLQFPYKEPEQPAGQRGNRTGNSLLSPKVLGIAIARYDFCARDMRELSLLKGDMVKIYTKMSANGWWRGEVNGRVGWFPSTYVEEDE |
| 4990 | sp|Q10038|VHP1\_CAEEL | MTVLDTVTISTCGLAALIREAPDTTLVVDCRGFTEYNESHVRHSMNAFFSKLIRRRLFENKLDDNCLIHQLMSCSSGCTKMDEKLDLVLYAEEDKPRGNKRRIASCNAPESTAKIMRVLRERLEDTDKFRSVMVLEGGFKQFAQQYPQLCESSEGMTRLPQSLSQPCLSQPTGDGITLITPNIYLGSQIDSLDETMLDALDISVVINLSMTCPKSVCIKEDKNFMRIPVNDSYQEKLSPYFPMAYEFLEKCRRAGKKCLIHCLAGISRSPTLAISYIMRYMKMGSDDAYRYVKERRPSISPNFNFMGQLLEYENVLIKDHVLDYNQASRPHRHMDYYGPSDLCPPKVPKSASSNCVFPGSTHDESSPSSPSVSEGSAASEPETSSSAASSSSTASAPPSMPSTSEQGTSSGTVNVNGKRNMTMDLGLPHRPKALGLPSRIGTSVAELPSPSTELSRLSFNGPEAIAPSTPILNFTNPCFNSPIIPVASSSREVILTLPTPAASSSSSTSSEPSFDFSSFESSSSSSIVVENPFFASTEVPAGSSSISTPSGSQSTPASASSSAASRCRMKGFFKVFSKKAPASTSTPASSTPGTSRAARPECLRSSGIIISAPVLAITEEEDAESPESGFNEPEVGEEDDDSVSICSTSSLEIPCHQ |
| 4991 | sp|Q9KS45|VGRG1\_VIBCH | MATLAYSIEVEGLEDETLVVRGFHGQESLSNSVFLGQACYGFRYEVQLASRVSNLTAEQMVDKRAELKLYRNSQLVQRVHGIVRAFSQGDIGHHHTFYQLTLVPALERLSLRHNSRIFQKQTVPEILSILLQEMGINDYAFALKRDGVQREFCVQYRESDIDFLHRLAAEEGLVYSFVHEAGKHTLYFSDASDSLSKLPEPIPYNALVGGAIDTPYIHGLTYRTQAEVSEVQLKDYSFKKPAYSFLQTVQGTELDYQQTRYQHFDAPGRYKDDVNGAAFSQIRLDYLRRHAHTATGQSNEPLLRAGYKFDLQEHLDPAMNRDWVVVSINHQGEQPQALQEDGGSGATTYSNQFSLIPGHLHWRAEPQPKPQVDGPMIATVVGPEGEEIFCDEHGRVKIHFPWDRYSNGNEQSSCWVRVSQGWAGSQYGFIAIPRIGHEVIVEFLNGDPDQPIITGRTYHATNTPPYTLPEHKTKTVLRTETHQGEGFNELSFEDQAGKEQIYLHAQKDFDGLIENDHTTVIRHDHHLTVENDQFTQIKHNQHLTVEWESREAVTGEQVLSIEGSLHVKTGKVWVNEAGTEIHVKAGQKVVIEAGSEITVKAGGSFVKVDPAGVHLSGALVNLNSGGSAGSGSGFGGAMPALPGGLEPAVALAPPQTISYQALLQAEQANVPAVKVCPLAAQEATPAVNSITPPPPPPIAPPMAPPQPIMNPQPTANAQPNLGRSTKATPDFPTHFPKSSIGIENELAGLVVAMPANSAQKFGYVKSAQGDALFMLTKDMNQGSYQRPPSLQDGKNYQNWQTHTVELVSYPCEMDDKAAVETRKQAMLWLATHFTTHIDQSNHQPLAPIQSEDGRFVIEITNAKHVIAAGNGISAESQGQTITMTPSGQQATVGVAAKGFGTSATPELRLLESAPWYQKSLKSQFASLTSAENLDDKELAANVFAYLTSIYLKTAELAKKFGIYINEWDPMSEQITPNANGLTDPKVKNAWEILPRTKPSKIVEILSKSDAKAVMKHIKPQLQSRYSESLSKNVFQYFQDGGEVAGHGINNATVGDKHSPELAILFEFRTVPNELQSYLPKTESTTKSEVKLLDQFDPMKRKTVIQQVESLVQNSGDAFDKWYQSYRDSMNQPPVKNAKKIASANQKAQWVKEHNPQEWQRIIA |
| 4992 | sp|P20164|VM3HB\_PROFL | MIQVLLVTICLAVFPYQGSSIILESGNVNDYEVMYPQKVAALPKGAVQQKYEDTMQYEFKVNGEPVVLHLEKNKGLFSEDYSETHYSPDGREITTNPPVEDHCYYHGRIQNDADSTASISACNGLKGHFKLQGEMYLIEPLKFSDSEAHAVYKYENVEKEEEAPKMCGVTQTNWESDEPIKKASKLVVTAEQQRFPRRYIKLAIVVDHGIVTKHHGNLKKIRKWIYQLVNTINNIYRSLNILVALVYLEIWSKQNKITVQSASNVTLDLFGDWRESVLLKQRSHDCAQLLTTIDFDGPTIGKAYTASMCDPKRSVGIVQDYSPINLVVAVIMTHEMGHNLGIPHDGNSCTCGGFPCIMSPMISDPPSELFSNCSKAYYQTFLTDHKPQCILNAPSKTDIVSPPVCGNELLEAGEECDCGSPENCQYQCCDAASCKLHSWVKCESGECCDQCRFRTAGTECRAAESECDIPESCTGQSADCPTDRFHRNGQPCLYNHGYCYNGKCPIMFYQCYFLFGSNATVAEDDCFNNNKKGDKYFYCRKENEKYIPCAQEDVKCGRLFCDNKKYPCHYNYSEDLDFGMVDHGTKCADGKVCSNRQCVDVNEAYKSTTVFSLI |
| 4993 | sp|P03126|VE6\_HPV16 | MHQKRTAMFQDPQERPRKLPQLCTELQTTIHDIILECVYCKQQLLRREVYDFAFRDLCIVYRDGNPYAVCDKCLKFYSKISEYRHYCYSLYGTTLEQQYNKPLCDLLIRCINCQKPLCPEEKQRHLDKKQRFHNIRGRWTGRCMSCCRSSRTRRETQL |
| 4994 | sp|P67965|VEGFA\_COTJA | MNFLLTWIHWGLAALLYLQSAELSKAAPALGDGERKPNEVIKFLEVYERSFCRTIETLVDIFQEYPDEVEYIFRPSCVPLMRCAGCCGDEGLECVPVDVYNVTMEIARIKPHQSQHIAHMSFLQHSKCDCRPKKDVKNKQEKKSKRGKGKGQKRKRKKGRYKPPSFHCEPCSERRKHLFVQDPQTCKCSCKFTDSRCKSRQLELNERTCRCEKPRR |
| 4995 | sp|O35251|VEGFD\_RAT | MYGEWAAVNILMMSYVYLVQGFSIEHRAVKDVSLERSSRSVLERSEQQIRAASTLEELLQVAHSEDWKLWRCRLKLKSLANVDSRSTSHRSTRFAATFYDTETLKVIDEEWQRTQCSPRETCVEVASELGKTTNTFFKPPCVNVFRCGGCCNEESVMCMNTSTSYISKQLFEISVPLTSVPELVPVKIANHTGCKCLPTGPRHPYSIIRRSIQIPEEDQCPHSKKLCPVDMLWDNTKCKCVLQDENPLPGTEDHSYLQEPALCGPHMMFDEDRCECVCKAPCPGDLIQHPENCSCFECKESLESCCQKHKMFHPDTCRSMVFSLSP |
| 4996 | sp|Q04177|UTP5\_YEAST | MDSPVLQSAYDPSGQYLCYVTVALDKQRVGVQPTQRATSSGVDTVWNENFLYLEDSKLKVTCLKWVNLASSDTVAIILGMNNGEIWLYSVLANEVTYKFTTGNSYEIKDIDLMGNQLWCIDSSDAFYQFDLLQFKLLQHFRINNCVQLNKLTIVPAGDSVAQLLVASHSISLIDIEEKKVVMTFPGHVSPVSTLQVITNEFFISGAEGDRFLNVYDIHSGMTKCVLVAESDIKELSHSGQADSIAVTTEDGSLEIFVDPLVSSSTKKRGNKSKKSSKKIQIVSKDGRKVPIYNAFINKDLLNVSWLQNATMPYFKNLQWREIPNEYTVEISLNWNNKNKSADRDLHGKDLASATNYVEGNARVTSGDNFKHVDDAIKSWERELTSLEQEQAKPPQANELLTETFGDKLESSTVARISGKKTNLKGSNLKTATTTGTVTVILSQALQSNDHSLLETVLNNRDERVIRDTIFRLKPALAVILLERLAERIARQTHRQGPLNVWVKWCLIIHGGYLVSIPNLMSTLSSLHSTLKRRSDLLPRLLALDARLDCTINKFKTLNYEAGDIHSSEPVVEEDEDDVEYNEELDDAGLIEDGEESYGSEEEEEGDSDNEEEQKHTSSKQDGRLETEQSDGEEEAGYSDVEME |
| 4997 | sp|Q9PTN2|VDRA\_DANRE | MLTENSAVNSGGKSKCEAGACESRVNGDATSVMDLMAVSTSATGQDEFDRNAPRICGVCGDKATGFHFNAMTCEGCKGFFRRSMKRKASFTCPFNGNCTITKDNRRHCQACRLKRCIDIGMMKEFILTDEEVQRKKDLIMKRKEEEAAREARKPRLSDEQMQIINSLVEAHHKTYDDSYSDFVRFRPPVREGPVTRSASRAASLHSLSDASSDSFNHSPESVDTKLNFSNLLMMYQDSGSPDSSEEDQQSRLSMLPHLADLVSYSIQKVIGFAKMIPGFRDLTAEDQIALLKSSAIEIIMLRSNQSFSLEDMSWSCGGPDFKYCINDVTKAGHTLELLEPLVKFQVGLKKLKLHEEEHVLLMAICLLSPDRPGVQDHVRIEALQDRLCDVLQAYIRIQHPGGRLLYAKMIQKLADLRSLNEEHSKQYRSLSFQPEHSMQLTPLVLEVFGSEVS |
| 4998 | sp|Q641Q2|WAC2A\_HUMAN | MMNRTTPDQELAPASEPVWERPWSVEEIRRSSQSWSLAADAGLLQFLQEFSQQTISRTHEIKKQVDGLIRETKATDCRLHNVFNDFLMLSNTQFIENRVYDEEVEEPVLKAEAEKTEQEKTREQKEVDLIPKVQEAVNYGLQVLDSAFEQLDIKAGNSDSEEDDANGRVELILEPKDLYIDRPLPYLIGSKLFMEQEDVGLGELSSEEGSVGSDRGSIVDTEEEKEEEESDEDFAHHSDNEQNRHTTQMSDEEEDDDGCDLFADSEKEEEDIEDIEENTRPKRSRPTSFADELAARIKGDAVGRVDEEPTTLPSGEAKPRKTLKEKKERRTPSDDEEDNLFAPPKLTDEDFSPFGSGGGLFSGGKGLFDDEDEESDLFTEAPQDRQAGASVKEESSSSKPGKKIPAGAVSVFLGDTDVFGAASVPSMKEPQKPEQPTPRKSPYGPPPTGLFDDDDGDDDDDFFSAPHSKPSKTGKVQSTADIFGDEEGDLFKEKAVASPEATVSQTDENKARAEKKVTLSSSKNLKPSSETKTQKGLFSDEEDSEDLFSSQSASKLKGASLLPGKLPTLVSLFDDEDEEDNLFGGTAAKKQTLCLQAQREEKAKASELSKKKASALLFSSDEEDQWNIPASQTHLASDSRSKGEPRDSGTLQSQEAKAVKKTSLFEEDEEDDLFAIAKDSQKKTQRVSLLFEDDVDSGGSLFGSPPTSVPPATKKKETVSEAPPLLFSDEEEKEAQLGVKSVDKKVESAKESLKFGRTDVAESEKEGLLTRSAQETVKHSDLFSSSSPWDKGTKPRTKTVLSLFDEEEDKMEDQNIIQAPQKEVGKGRDPDAHPKSTGVFQDEELLFSHKLQKDNDPDVDLFAGTKKTKLLEPSVGSLFGDDEDDDLFSSAKSQPLVQEKKRVVKKDHSVDSFKNQKHPESIQGSKEKGIWKPETPQDSSGLAPFKTKEPSTRIGKIQANLAINPAALLPTAASQISEVKPVLPELAFPSSEHRRSHGLESVPVLPGSGEAGVSFDLPAQADTLHSANKSRVKMRGKRRPQTRAARRLAAQESSETEDMSVPRGPIAQWADGAISPNGHRPQLRAASGEDSTEEALAAAAAPWEGGPVPGVDRSPFAKSLGHSRGEADLFDSGDIFSTGTGSQSVERTKPKAKIAENPANPPVGGKAKSPMFPALGEASSDDDLFQSAKPKPAKKTNPFPLLEDEDDLFTDQKVKKNETKSNSQQDVILTTQDIFEDDIFATEAIKPSQKTREKEKTLESNLFDDNIDIFADLTVKPKEKSKKKVEAKSIFDDDMDDIFSSGIQAKTTKPKSRSAQAAPEPRFEHKVSNIFDDPLNAFGGQ |
| 4999 | sp|Q95333|XPP2\_PIG | MAQACWGCYPWLVLICACAWGHPKSLNQREDVRNCSTSPPYLPVTAVNTTAQLTALREQMLTQNLSAYIIPDTDAHMSEYIGECDQRRAWITGFIGSAGIAVVTERKAALWTDSRYWTQAERQMDCNWELHKEVSTGHIVTWLLTEIPVGGRVGFDPFLFSIDSWESYDVALQDADRELVSITVNLVDLVWGSERPPLPNAPIYALQEAFAGSTWQEKVSNIRSQMQKHHERPTAVLLSALDETAWLFNLRSSDIPYNPFFYSYTLLTDSSIRLFANKSRFSSETLQYLNSSCNSSMCVQLEDYSQIRDSIQAYTSGDVKIWIGTRYTSYGLYEVIPKEKLVEDDYSPVMITKAVKNSREQALLKASHVRDAVAVIRYLAWLEKNVPTGTVDEFSGAKRVEEFRGEEEFFSGPSFETISASGLNAALAHYSPTKELHRKLSSDEMYLLDSGGQYWDGTTDITRTVHWGTPSAFQKEAYTRVLIGNIDLSRLVFPAATSGRVVEAFARKALWDVGLNYGHGTGHGIGNFLCVHEWPVGFQYGNIPMAEGMFTSIEPGYYQDGEFGIRLEDVALVVEAKTKYPGTYLTFEVVSLVPYDRKLIDVSLLSPEQLQYLNRYYQAIREKVGPELQRRGLLEELSWLQRHTEPLSARAAPTTSLGSLMTVSALAILGWSV |
| 5000 | sp|Q9UBH6|XPR1\_HUMAN | MKFAEHLSAHITPEWRKQYIQYEAFKDMLYSAQDQAPSVEVTDEDTVKRYFAKFEEKFFQTCEKELAKINTFYSEKLAEAQRRFATLQNELQSSLDAQKESTGVTTLRQRRKPVFHLSHEERVQHRNIKDLKLAFSEFYLSLILLQNYQNLNFTGFRKILKKHDKILETSRGADWRVAHVEVAPFYTCKKINQLISETEAVVTNELEDGDRQKAMKRLRVPPLGAAQPAPAWTTFRVGLFCGIFIVLNITLVLAAVFKLETDRSIWPLIRIYRGGFLLIEFLFLLGINTYGWRQAGVNHVLIFELNPRSNLSHQHLFEIAGFLGILWCLSLLACFFAPISVIPTYVYPLALYGFMVFFLINPTKTFYYKSRFWLLKLLFRVFTAPFHKVGFADFWLADQLNSLSVILMDLEYMICFYSLELKWDESKGLLPNNSEESGICHKYTYGVRAIVQCIPAWLRFIQCLRRYRDTKRAFPHLVNAGKYSTTFFMVTFAALYSTHKERGHSDTMVFFYLWIVFYIISSCYTLIWDLKMDWGLFDKNAGENTFLREEIVYPQKAYYYCAIIEDVILRFAWTIQISITSTTLLPHSGDIIATVFAPLEVFRRFVWNFFRLENEHLNNCGEFRAVRDISVAPLNADDQTLLEQMMDQDDGVRNRQKNRSWKYNQSISLRRPRLASQSKARDTKVLIEDTDDEANT |
| 5001 | sp|P18887|XRCC1\_HUMAN | MPEIRLRHVVSCSSQDSTHCAENLLKADTYRKWRAAKAGEKTISVVLQLEKEEQIHSVDIGNDGSAFVEVLVGSSAGGAGEQDYEVLLVTSSFMSPSESRSGSNPNRVRMFGPDKLVRAAAEKRWDRVKIVCSQPYSKDSPFGLSFVRFHSPPDKDEAEAPSQKVTVTKLGQFRVKEEDESANSLRPGALFFSRINKTSPVTASDPAGPSYAAATLQASSAASSASPVSRAIGSTSKPQESPKGKRKLDLNQEEKKTPSKPPAQLSPSVPKRPKLPAPTRTPATAPVPARAQGAVTGKPRGEGTEPRRPRAGPEELGKILQGVVVVLSGFQNPFRSELRDKALELGAKYRPDWTRDSTHLICAFANTPKYSQVLGLGGRIVRKEWVLDCHRMRRRLPSRRYLMAGPGSSSEEDEASHSGGSGDEAPKLPQKQPQTKTKPTQAAGPSSPQKPPTPEETKAASPVLQEDIDIEGVQSEGQDNGAEDSGDTEDELRRVAEQKEHRLPPGQEENGEDPYAGSTDENTDSEEHQEPPDLPVPELPDFFQGKHFFLYGEFPGDERRKLIRYVTAFNGELEDNMSDRVQFVITAQEWDPSFEEALMDNPSLAFVRPRWIYSCNEKQKLLPHQLYGVVPQA |
| 5002 | sp|O43542|XRCC3\_HUMAN | MDLDLLDLNPRIIAAIKKAKLKSVKEVLHFSGPDLKRLTNLSSPEVWHLLRTASLHLRGSSILTALQLHQQKERFPTQHQRLSLGCPVLDALLRGGLPLDGITELAGRSSAGKTQLALQLCLAVQFPRQHGGLEAGAVYICTEDAFPHKRLQQLMAQQPRLRTDVPGELLQKLRFGSQIFIEHVADVDTLLECVNKKVPVLLSRGMARLVVIDSVAAPFRCEFDSQASAPRARHLQSLGATLRELSSAFQSPVLCINQVTEAMEEQGAAHGPLGFWDERVSPALGITWANQLLVRLLADRLREEEAALGCPARTLRVLSAPHLPPSSCSYTISAEGVRGTPGTQSH |
| 5003 | sp|O88342|WDR1\_MOUSE | MPYEIKKVFASLPQVERGVSKILGGDPKGDHFLYTNGKCVILRNIDNPAIADIYTEHAHQVVVAKYAPSGFYIASGDISGKLRIWDTTQKEHLLKYEYQPFAGKIKDIAWTEDSKRIAVVGEGREKFGAVFLWDTGSSVGEITGHNKVINSVDIKQTRPYRLATGSDDNCAAFFEGPPFKFKFTIGDHSRFVNCVRFSPDGNRFATASADGQIFIYDGKTGEKVCALGESKAHDGGIYAISWSPDSTHLLSASGDKTSKIWDVNVNSVVSTFPMGSNVLDQQLGCLWQKDHLLSISLSGYINYLDKNNPSKPLRVIKGHSKSIQCLTVHRNGGKSYIYSGSHDGHINYWDSETGENDSFSGKGHTNQVSRMTVNESEQLVSCSMDDTVRYTNLTLRDYSGQGVVKLDVQPKCVAVGPGGYTVVVCIGQIVLLKDQKKCFSIDNPGYEPEVVAVHPGGDTVAVGGTDGNVRVYSILASTLKDEGKLLEAKGPVTDVAYSHDGAFLAVCDASKVVTVFSVADGYSENNVFYGHHAKIVCLAWSPDNEHFASGGMDMMVYVWTLSDPETKVKIQDAHRLHHVSSLAWLDEHTLVTTSHDASVKEWTITY |
| 5004 | sp|A7Z063|WASH1\_BOVIN | MTPTGTQHSLAGQTYAVPLIQPDLRREEAIQQVADALQYLQKVSGDIFSRISQRVELSRSQLQAIGERVSLAQAKIEKIKGSKKAIKVFSSAKYPAPERLQEYGSIFMGAQDPGLQRRPRHRIQSKHRPLDERALQEKLKFFPVCVNTKPEPEDEAEEGLGGLPSNISSVSSLLLFNTTENLYKKYVFLDPLAGAVTKTHVMLGAETEEKLFDAPLSISRREQLERQVPENYFYVPDLGQVPDIDVPSYLPDLPGVADDLMYSADLGPGIAPSAPGAIPELPTFHTEVAQPFKPDLEDGVLTARPPPPPPPPPPPAPAVLMSVPPPPPPPQAPPGQPAKGDDSGGASPSAPVQGAPKEVVDPSSGRATLLESIRQAGGIGKAKLRSVKERKLEKKKQKEQEQVRATSQGGDLMSDLFNKLAMRRKGISGKGPGSGASEGPGGAFARMSDSIPPLPPPQQPPGEEDEDDWES |
| 5005 | sp|R4ZGN4|XDH\_BLAAD | MVDLQLHQSLGHHNFTNKLTFYVNGVKRTISNPDPRGTLLDFIRTHEGLTGTKLGCSEGGCGACTVVVASWDREQGEIIYSAVNSCIVPLVAVEGKHLITVEGIGSSNNPHPAQERIALFHGSQCGFCTPGIVMSLYALLRNTGGQPSKEQIAESFDGNLCRCTGYKPIIDAANTFSCGRPGGCCRDNASGKANGAGATVGNGMANGAAAVANGNGAAANGCCKGNGAANGCCKSNGSAATTANGDDKEVDMNKLFTPNGLPLKPYSAKTELIFPPALKKYELNPLFFGNEQKVWFRPVTKLQLLQIKHAYPESKIVGGASEIQIEIKMKAANYNISVYANDIEELKTHKYIPGKGLEFGANISLSKLEEVCDKLVHELDPNVSQIYGAILEQLKYFAGRQIRNAATPAGNIATASPISDLNPVLVAAEAVLTVESIENGEEQISMTDFFVGYRKTKLPAHGVITKIFVPETVPRNEVVMAYKQAKRKDDDIAIVTACLRLALDDDFRISKARLAYGGVGPFTTAAKGTAEFLTGKLLRRETAKEVLEGAIDCLIKEFDLPYSVPGGMAAYRRTLIMSFFYKFYSTVLEKIGLAGEAQDNSALENTYDPQALLEVTRKHPVGSRDLTNPYEQRIVGKSDPHLSALKQVTGEAVYIDDIPPYHGECFGVQVMSTKPRARILSVDPSPALEVEGVVGYVDVNDLPSREANIWGPTPVGKEPFFADGEVYYVGQCIGVIIATDRMIAEEAARLVKVEYEELETVITIEEAIEAQSFFDYQPKAEKGDVDGAFAESAYTFEGTSRIGSQEHFYLETQGSLVVPEPEDGEMKVYSSSQNPTETQVFVAQATGVPSSRIVARVKRLGGGFGGKESRCCHLSSIAAVAAKKYKRPVRMILSRSEDMLTAGQRHPFVMKWKVGLDKNYKFTALEAKLYANAGWSMDLTKGVIERAVLHAENCYDFPNARIQGIPCRTSVASNTAFRGFGGPQGMFMAECYIYEIADQLGIEPDTLREINYLVPGVSSTPFKQAITEDFTVPDMVKQIKKQSNYDDLRRQVEEFNSKHKWIKRGLAHVPTMFGISFGATFLNQAGALVHIYHDGSILLTHGGTEMGQGLHTKMAMVCAEELKVPLSQVFISETSTNTVPNTSASAASASSDLNGMAVKHACDQLNERLAPYRERLGENATMEQLAHAAYFDRVNLSANGFYKTPDIGFVWGDPNPKPAFFYFTQGCAVAMVEVNTLTGDWSNLRTDIVMDIGRPINQAIDYGQIEGAFVQGQGLFTIEESLWLRNGALFTRGPGAYKIPGFRDIPQEFNVGHLRDRPFKHLKTIHRSKGIGEPPLFLGSSVFFAIRDALSYARRQNLGEATMPAGLVAPMTTERIRMLAGDSLYEHKGKIEPTEGDDKPFFVNA |
| 5006 | sp|P13010|XRCC5\_HUMAN | MVRSGNKAAVVLCMDVGFTMSNSIPGIESPFEQAKKVITMFVQRQVFAENKDEIALVLFGTDGTDNPLSGGDQYQNITVHRHLMLPDFDLLEDIESKIQPGSQQADFLDALIVSMDVIQHETIGKKFEKRHIEIFTDLSSRFSKSQLDIIIHSLKKCDISLQFFLPFSLGKEDGSGDRGDGPFRLGGHGPSFPLKGITEQQKEGLEIVKMVMISLEGEDGLDEIYSFSESLRKLCVFKKIERHSIHWPCRLTIGSNLSIRIAAYKSILQERVKKTWTVVDAKTLKKEDIQKETVYCLNDDDETEVLKEDIIQGFRYGSDIVPFSKVDEEQMKYKSEGKCFSVLGFCKSSQVQRRFFMGNQVLKVFAARDDEAAAVALSSLIHALDDLDMVAIVRYAYDKRANPQVGVAFPHIKHNYECLVYVQLPFMEDLRQYMFSSLKNSKKYAPTEAQLNAVDALIDSMSLAKKDEKTDTLEDLFPTTKIPNPRFQRLFQCLLHRALHPREPLPPIQQHIWNMLNPPAEVTTKSQIPLSKIKTLFPLIEAKKKDQVTAQEIFQDNHEDGPTAKKLKTEQGGAHFSVSSLAEGSVTSVGSVNPAENFRVLVKQKKASFEEASNQLINHIEQFLDTNETPYFMKSIDCIRAFREEAIKFSEEQRFNNFLKALQEKVEIKQLNHFWEIVVQDGITLITKEEASGSSVTAEEAKKFLAPKDKPSGDTAAVFEEGGDVDDLLDMI |
| 5007 | sp|A8K0Z3|WASH1\_HUMAN | MTPVRMQHSLAGQTYAVPFIQPDLRREEAVQQMADALQYLQKVSGDIFSRISQQVEQSRSQVQAIGEKVSLAQAKIEKIKGSKKAIKVFSSAKYPAPGRLQEYGSIFTGAQDPGLQRRPRHRIQSKHRPLDERALQEKLKDFPVCVSTKPEPEDDAEEGLGGLPSNISSVSSLLLFNTTENLYKKYVFLDPLAGAVTKTHVMLGAETEEKLFDAPLSISKREQLEQQVPENYFYVPDLGQVPEIHVPSYLPDLPGIANDLMYSADLGPGIAPSAPGTIPELPTFHTEVAEPLKVDLQDGVLTPPPPPPPPPPAPEVLASAPPLPPSTAAPVGQGARQDDSSSSASPSVQGAPREVVDPSGGWATLLESIRQAGGIGKAKLRSMKERKLEKQQQKEQEQVRATSQGGHLMSDLFNKLVMRRKGISGKGPGAGEGPGGAFVRVSDSIPPLPPPQQPQAEEDEDDWES |
| 5008 | sp|Q17963|WDR51\_CAEEL | MDTSENAASAAEQQPTQQIDQLTVPNAPDGGSSAPAPSTSPNSISPSNPTGTPAPGASAQTPNPNAAGASASGSANYKLMCTLEGHTKSISSAKFSPCGKYLGTSSADKTVKIWNMDHMICERTLTGHKLGVNDIAWSSDSRCVVSASDDKTLKIFEIVTSRMTKTLKGHNNYVFCCNFNPQSSLVVSGSFDESVRIWDVKTGMCIKTLPAHSDPVSAVSFNRDGSLIASGSYDGLVRIWDTANGQCIKTLVDDENPPVAFVKFSPNGKYILASNLDSTLKLWDFSKGKTLKQYTGHENSKYCIFANFSVTGGKWIISGSEDCKIYIWNLQTREIVQCLEGHTQPVLASDCHPVQNIIASGALEPDNKIHIWRSDV |
| 5009 | sp|G3XD23|WBPB\_PSEAE | MKNFALIGAAGYIAPRHMRAIKDTGNCLVSAYDINDSVGIIDSISPQSEFFTEFEFFLDHASNLKRDSATALDYVSICSPNYLHYPHIAAGLRLGCDVICEKPLVPTPEMLDQLAVIERETDKRLYNILQLRHHQAIIALKDKVAREKSPHKYEVDLTYITSRGNWYLKSWKGDPRKSFGVATNIGVHFYDMLHFIFGKLQRNVVHFTSEYKAAGYLEYEQARVRWFLSVDANDLPESVKGKKPTYRSITVNGEEMEFSEGFTDLHTTSYEEILAGRGYGIDDARHCVETVNTIRSAVIVPASDNEGHPFVAALAR |
| 5010 | sp|Q8QL26|Y1070\_SIRV1 | MFIILKRNILINMSFLLNLGELGTFFADEIENLENFTNWISSDFINFINAIVNDIKNIASFLGQAISDIPTFMVNIATNFLTILQNFVQTAISTIQGFVSWFEQQIVGAFEFLSSIASDFINSAYSFFQNVANVFAQIISGVISDFLNFFGANMKHISNAISQLSQFLSPFIAPITIGKFLPVIVDKLAEILPEIEIDLAPVGLGGKIPIKFGEIIKAFAETSVDFLNEIRTELATTLKEFIKEPFISDFKISAREIFNEIGLGDLPFADPPFQLIGRWVAVRSFDEVKDHLRETILLTGYPAWFTNAYLESPVNDFVPKNPLFRPVGIRDLITGSQYGILNISDLEKYAYNNLITPKTAKLMYQNQTARLLQRAVEQGIRQFVITPQKAYEEIISNINLTGKELFLKTFTLEYEYAVQRIVRQFLRSLLSRALSNFGKPYLDFKYLDNTIAKLFKDLGYPEEVRTVFDTMITQSQLIDTNQLLLRQLQQIVKLGIFNEKKIKEELKANKFNEQVALQILESELQFAQLQNTLKEYQFKLKSFLISPKDVEKDLKHLGFDSAIISALIYENQVEQLIKFQLTNIESLAKKGYLSLDEIKKQFKAIGIIKEYEDAFINFINQELQISAFLTILKSQLRQFQIDPKVAEAELKKLNINEYLSNQIIQEEYNINIAKLHLSVLETIAKTLYYDQQQLSGELEKIIKDKTALELYIKKFYYEYIYPKIVNYHVQLARHGILSDISKLPKEVIDYEIKPALLTYQTTLEIEYIKESLKDLEIKPTDAINELEKLGMQKDIAQLIVNTYIPTFYNVHTIIQNIIEGQLYKVGKVPINLGNAESELRKLGIPDSQIKILLDQYSTTFGLDIWRKHLPSISIIENAIKYNYLDQKLIEYSFIPSELLNLYINYYQHLLVGQEVQSFKSEYITALIYNYQNLQLENLLKQYGINEALLSVIKLFAQVRKIVLGLQELYLTPTKALSISEYVSNPQQLLQKVFTEFQIPQELQNTYFEYARNRRVSRYVNEIITTINLLFEKHKIDLGTAQSYLQQLKKYGLTDEEIQLIILNWQLRSAY |
| 5011 | sp|P49337|WNT4\_CHICK | MSPEYFLRSLLLIILATFSANASNWLYLAKLSSVGSISEEETCEKLKGLIQRQVQMCKRNLEVMDSVRRGAQLAIEECQYQFRNRRWNCSTLDTLPVFGKVVTQGTREAAFVYAISSAGVAFAVTRACSSGELDKCGCDRTVQGGSPQGFQWSGCSDNIAYGVAFSQSFVDVRERSKGASSNRALMNLHNNEAGRKAILNNMRVECKCHGVSGSCEFKTCWKAMPPFRKVGNVLKEKFDGATEVEQSEIGSTKVLVPKNSQFKPHTDEDLVYLDSSPDFCDHDLKNGVLGTSGRQCNKTSKAIDGCELMCCGRGFHTDEVEVVERCSCKFHWCCSVKCKPCHRVVEIHTCR |
| 5012 | sp|O75554|WBP4\_HUMAN | MADYWKSQPKKFCDYCKCWIADNRPSVEFHERGKNHKENVAKRISEIKQKSLDKAKEEEKASKEFAAMEAAALKAYQEDLKRLGLESEILEPSITPVTSTIPPTSTSNQQKEKKEKKKRKKDPSKGRWVEGITSEGYHYYYDLISGASQWEKPEGFQGDLKKTAVKTVWVEGLSEDGFTYYYNTETGESRWEKPDDFIPHTSDLPSSKVNENSLGTLDESKSSDSHSDSDGEQEAEEGGVSTETEKPKIKFKEKNKNSDGGSDPETQKEKSIQKQNSLGSNEEKSKTLKKSNPYGEWQEIKQEVESHEEVDLELPSTENEYVSTSEADGGGEPKVVFKEKTVTSLGVMADGVAPVFKKRRTENGKSRNLRQRGDDQ |
| 5013 | sp|P0A8P8|XERD\_ECOLI | MKQDLARIEQFLDALWLEKNLAENTLNAYRRDLSMMVEWLHHRGLTLATAQSDDLQALLAERLEGGYKATSSARLLSAVRRLFQYLYREKFREDDPSAHLASPKLPQRLPKDLSEAQVERLLQAPLIDQPLELRDKAMLEVLYATGLRVSELVGLTMSDISLRQGVVRVIGKGNKERLVPLGEEAVYWLETYLEHGRPWLLNGVSIDVLFPSQRAQQMTRQTFWHRIKHYAVLAGIDSEKLSPHVLRHAFATHLLNHGADLRVVQMLLGHSDLSTTQIYTHVATERLRQLHQQHHPRA |
| 5014 | sp|P22724|WNT4\_MOUSE | MSPRSCLRSLRLLVFAVFSAAASNWLYLAKLSSVGSISEEETCEKLKGLIQRQVQMCKRNLEVMDSVRRGAQLAIEECQYQFRNRRWNCSTLDSLPVFGKVVTQGTREAAFVYAISSAGVAFAVTRACSSGELEKCGCDRTVHGVSPQGFQWSGCSDNIAYGVAFSQSFVDVRERSKGASSSRALMNLHNNEAGRKAILTHMRVECKCHGVSGSCEVKTCWRAVPPFRQVGHALKEKFDGATEVEPRRVGSSRALVPRNAQFKPHTDEDLVYLEPSPDFCEQDIRSGVLGTRGRTCNKTSKAIDGCELLCCGRGFHTAQVELAERCGCRFHWCCFVKCRQCQRLVEMHTCR |
| 5015 | sp|Q6PCX7|RGMA\_MOUSE | MQPPRERLVVTGRAGWMGMGRGAGRSALGLWPTLAFLLCSFPAAISPCKILKCNSEFWSATSSGSHAPASDDVPEFCAALRTYALCTRRTARTCRGDLAYHSAVHGIEDLMSQHNCSKDGPTSQPRVRTLPPAGDSQERSDSPEICHYEKSFHKHSAAPNYTHCGLFGDPHLRTFTDHFQTCKVQGAWPLIDNNYLNVQVTNTPVLPGSAATATSKLTIIFKNFQECVDQKVYQAEMDELPSAFADGSKNGGDKHGANSLKITEKVSGQHVEIQAKYIGTTIVVRQVGRYLTFAVRMPEEVVNAVEDRDSQGLYLCLRGCPLNQQIDFQAFRANAESPRRPAAASPSPVVPETFPYETAVAKCKEKLPVEDLYYQACVFDLLTTGDVNFTLAAYYALEDGKMLHSNKDKLHLFERTRELPGAVAAAAAAATTFPLAPQILLGTIPLLVLLPVLW |
| 5016 | sp|F4IV66|RNE\_ARATH | MDVTEVPWRRLPQFSVSSRASWLVSSGFPLSSYMFSHVERGKTFRLTLCFGVSRLRPRSAIPLRFLLSVFSEQPPSRLKGLCEVVWIVEADLAANEHLYVTGDPSTLGSWEPDCAISMYPTENDNEWEAKVKIASGVNFRYNYLLKAGYGSSSDVIWRPGPQFSLSVPSSVNQDRKIIIRDSWMSMSISSKSQESYGWGSWIDDAYLFPNCVTPAQSEDECTSADSAIEVPRTHLNDKQVGAESFLCDELAAFSSENSNLSALFSDNYQPIEEPWLIQESITLQHERNMQTDSEQDVESCDDNENNLNTDEQNHQLTETLLPDGGFFQSESIATTILINSSICTVQRIAVLEGGKLVELLLEPVKTNVQCDSVYLGVITKFVPHMGGAFVNIGSARHSFMDIKSNREPFIFPPFCDGSKKQAADGSPILSMNDIPAPHEIEHASYDFEASSLLDIDSNDPGESFHDDDDEHENDEYHVSDHLAGLVNGTVVNHGAVEVGSENGHIPMERGHSADSLDSNASVAKASKVMSSKDNKWIQVRKGTKIIVQVVKEGLGTKGPTLTAYPKLRSRFWVLLTRCKRIGVSKKISGVERTRLKVIAKTLQPQGFGLTVRTVAAGHSLEELQKDLDGLLLTWKNITDEAKSAALAADEGVEGAIPALLHRAMGQTLSVVQDYFNDKVEKMVVDSPRTYHEVTHYLQDMAPDLCNRVELHDKGIPLFDLYEIEEEIEGILSKRVPLSNGGSLVIEQTEALVSIDVNGGHGMFGQGNSQEKAILEVNLAAARQIAREIRLRDIGGIIVVDFIDMADESNKRLVYEEVKKAVERDRSLVKVSELSRHGLMEITRKRVRPSVTFMISEPCSCCHATGRVEALETTFSKIEQEICRQLAKMEKRGDLENPKSWPRFILRVDSHMSSFLTTGKRTRLAILSSSLKVWILLKVARHFTRGTFEVKPFMDEKTVNERQHQVAISLLKKADAIADSSGKKKLTLIPIKKEKTSGKQRR |
| 5017 | sp|Q96BH1|RNF25\_HUMAN | MAASASAAAGEEDWVLPSEVEVLESIYLDELQVIKGNGRTSPWEIYITLHPATAEDQDSQYVCFTLVLQVPAEYPHEVPQISIRNPRGLSDEQIHTILQVLGHVAKAGLGTAMLYELIEKGKEILTDNNIPHGQCVICLYGFQEKEAFTKTPCYHYFHCHCLARYIQHMEQELKAQGQEQEQERQHATTKQKAVGVQCPVCREPLVYDLASLKAAPEPQQPMELYQPSAESLRQQEERKRLYQRQQERGGIIDLEAERNRYFISLQQPPAPAEPESAVDVSKGSQPPSTLAAELSTSPAVQSTLPPPLPVATQHICEKIPGTRSNQQRLGETQKAMLDPPKPSRGPWRQPERRHPKGGECHAPKGTRDTQELPPPEGPLKEPMDLKPEPHSQGVEGPPQEKGPGSWQGPPPRRTRDCVRWERSKGRTPGSSYPRLPRGQGAYRPGTRRESLGLESKDGS |
| 5018 | sp|Q9NXI6|RN186\_HUMAN | MACTKTLQQSQPISAGATTTTTAVAPAGGHSGSTECDLECLVCREPYSCPRLPKLLACQHAFCAICLKLLLCVQDNTWSITCPLCRKVTAVPGGLICSLRDHEAVVGQLAQPCTEVSLCPQGLVDPADLAAGHPSLVGEDGQDEVSANHVAARRLAAHLLLLALLIILIGPFIYPGVLRWVLTFIIALALLMSTLFCCLPSTRGSCWPSSRTLFCREQKHSHISSIA |
| 5019 | sp|Q9Y4L5|RN115\_HUMAN | MAEASAAGADSGAAVAAHRFFCHFCKGEVSPKLPEYICPRCESGFIEEVTDDSSFLGGGGSRIDNTTTTHFAELWGHLDHTMFFQDFRPFLSSSPLDQDNRANERGHQTHTDFWGARPPRLPLGRRYRSRGSSRPDRSPAIEGILQHIFAGFFANSAIPGSPHPFSWSGMLHSNPGDYAWGQTGLDAIVTQLLGQLENTGPPPADKEKITSLPTVTVTQEQVDMGLECPVCKEDYTVEEEVRQLPCNHFFHSSCIVPWLELHDTCPVCRKSLNGEDSTRQSQSTEASASNRFSNDSQLHDRWTF |
| 5020 | sp|Q9SRY3|RLF1\_ARATH | MDKSFTLFLTLTILVVFIISSPPVQAGFANDLGGVAWATTGDNGSGCHGSIAECIGAEEEEMDSEINRRILATTKYISYQSLKRNSVPCSRRGASYYNCQNGAQANPYSRGCSKIARCRS |
| 5021 | sp|Q8TEB7|RN128\_HUMAN | MGPPPGAGVSCRGGCGFSRLLAWCFLLALSPQAPGSRGAEAVWTAYLNVSWRVPHTGVNRTVWELSEEGVYGQDSPLEPVAGVLVPPDGPGALNACNPHTNFTVPTVWGSTVQVSWLALIQRGGGCTFADKIHLAYERGASGAVIFNFPGTRNEVIPMSHPGAVDIVAIMIGNLKGTKILQSIQRGIQVTMVIEVGKKHGPWVNHYSIFFVSVSFFIITAATVGYFIFYSARRLRNARAQSRKQRQLKADAKKAIGRLQLRTLKQGDKEIGPDGDSCAVCIELYKPNDLVRILTCNHIFHKTCVDPWLLEHRTCPMCKCDILKALGIEVDVEDGSVSLQVPVSNEISNSASSHEEDNRSETASSGYASVQGTDEPPLEEHVQSTNESLQLVNHEANSVAVDVIPHVDNPTFEEDETPNQETAVREIKS |
| 5022 | sp|Q5TBB1|RNH2B\_HUMAN | MAAGVDCGDGVGARQHVFLVSEYLKDASKKMKNGLMFVKLVNPCSGEGAIYLFNMCLQQLFEVKVFKEKHHSWFINQSVQSGGLLHFATPVDPLFLLLHYLIKADKEGKFQPLDQVVVDNVFPNCILLLKLPGLEKLLHHVTEEKGNPEIDNKKYYKYSKEKTLKWLEKKVNQTVAALKTNNVNVSSRVQSTAFFSGDQASTDKEEDYIRYAHGLISDYIPKELSDDLSKYLKLPEPSASLPNPPSKKIKLSDEPVEAKEDYTKFNTKDLKTEKKNSKMTAAQKALAKVDKSGMKSIDTFFGVKNKKKIGKV |
| 5023 | sp|P9WG29|RPFB\_MYCTU | MLRLVVGALLLVLAFAGGYAVAACKTVTLTVDGTAMRVTTMKSRVIDIVEENGFSVDDRDDLYPAAGVQVHDADTIVLRRSRPLQISLDGHDAKQVWTTASTVDEALAQLAMTDTAPAAASRASRVPLSGMALPVVSAKTVQLNDGGLVRTVHLPAPNVAGLLSAAGVPLLQSDHVVPAATAPIVEGMQIQVTRNRIKKVTERLPLPPNARRVEDPEMNMSREVVEDPGVPGTQDVTFAVAEVNGVETGRLPVANVVVTPAHEAVVRVGTKPGTEVPPVIDGSIWDAIAGCEAGGNWAINTGNGYYGGVQFDQGTWEANGGLRYAPRADLATREEQIAVAEVTRLRQGWGAWPVCAARAGAR |
| 5024 | sp|P0A7Z0|RPIA\_ECOLI | MTQDELKKAVGWAALQYVQPGTIVGVGTGSTAAHFIDALGTMKGQIEGAVSSSDASTEKLKSLGIHVFDLNEVDSLGIYVDGADEINGHMQMIKGGGAALTREKIIASVAEKFICIADASKQVDILGKFPLPVEVIPMARSAVARQLVKLGGRPEYRQGVVTDNGNVILDVHGMEILDPIAMENAINAIPGVVTVGLFANRGADVALIGTPDGVKTIVK |
| 5025 | sp|Q9HB90|RRAGC\_HUMAN | MSLQYGAEETPLAGSYGAADSFPKDFGYGVEEEEEEAAAAGGGVGAGAGGGCGPGGADSSKPRILLMGLRRSGKSSIQKVVFHKMSPNETLFLESTNKIYKDDISNSSFVNFQIWDFPGQMDFFDPTFDYEMIFRGTGALIYVIDAQDDYMEALTRLHITVSKAYKVNPDMNFEVFIHKVDGLSDDHKIETQRDIHQRANDDLADAGLEKLHLSFYLTSIYDHSIFEAFSKVVQKLIPQLPTLENLLNIFISNSGIEKAFLFDVVSKIYIATDSSPVDMQSYELCCDMIDVVIDVSCIYGLKEDGSGSAYDKESMAIIKLNNTTVLYLKEVTKFLALVCILREESFERKGLIDYNFHCFRKAIHEVFEVGVTSHRSCGHQTSASSLKALTHNGTPRNAI |
| 5026 | sp|O95707|RPP29\_HUMAN | MKSVIYHALSQKEANDSDVQPSGAQRAEAFVRAFLKRSTPRMSPQAREDQLQRKAVVLEYFTRHKRKEKKKKAKGLSARQRRELRLFDIKPEQQRYSLFLPLHELWKQYIRDLCSGLKPDTQPQMIQAKLLKADLHGAIISVTKSKCPSYVGITGILLQETKHIFKIITKEDRLKVIPKLNCVFTVETDGFISYIYGSKFQLRSSERSAKKFKAKGTIDL |
| 5027 | sp|P9WJ67|RSLA\_MYCTU | MTMPLRGLGPPDDTGVREVSTGDDHHYAMWDAAYVLGALSAADRREFEAHLAGCPECRGAVTELCGVPALLSQLDRDEVAAISESAPTVVASGLSPELLPSLLAAVHRRRRRTRLITWVASSAAAAVLAIGVLVGVQGHSAAPQRAAVSALPMAQVGTQLLASTVSISGEPWGTFINLRCVCLAPPYASHDTLAMVVVGRDGSQTRLATWLAEPGHTATPAGSISTPVDQIAAVQVVAADTGQVLLQRSL |
| 5028 | sp|P18405|S5A1\_HUMAN | MATATGVAEERLLAALAYLQCAVGCAVFARNRQTNSVYGRHALPSHRLRVPARAAWVVQELPSLALPLYQYASESAPRLRSAPNCILLAMFLVHYGHRCLIYPFLMRGGKPMPLLACTMAIMFCTCNGYLQSRYLSHCAVYADDWVTDPRFLIGFGLWLTGMLINIHSDHILRNLRKPGDTGYKIPRGGLFEYVTAANYFGEIMEWCGYALASWSVQGAAFAFFTFCFLSGRAKEHHEWYLRKFEEYPKFRKIIIPFLF |
| 5029 | sp|Q8JZR6|S4A8\_MOUSE | MPAGSNEPDGVLSYQRPDEEAVVDQGGTSTILNIHYEKEELEGHRTLYVGVRMPLGRQSHRHHRTHGQKHRRRGGRGKGASQGEEGLEALAHDTPSQRVQFILGTEEDEEHVPHELFTELDEICMKEGEDAEWKETARWLKFEEDVEDGGERWSKPYVATLSLHSLFELRSCLINGSVLLDMRASSIEEISDLILDQQELLRDLSDSVRVKVREALLKKHHHQNERRRNNLIPIVRSFAEVGKKQSDPHSMDRDGQTVSPQSATNLEVKNGVNCEHSPVDLSKVDLHFMKKIPTGAEASNVLVGEVDTLDRPIVAFVRLSPAVLLSGLTEVPIPTRFLFILLGPVGKGQQYHEIGRSMATIMTDEIFHDVAYKAKERDDLLAGIDEFLDQVTVLPPGEWDPSIRIEPPKNVPSQEKRKMPGVPNGNVCHIEPEPHGGHSGPELERTGRLFGGLVLDVKRKAPWYWSDYRDALSLQCLASFLFLYCACMSPVITFGGLLGEATEGRISAIESLFGASMTGIAYSLFAGQPLTILGSTGPVLVFEKILFKFCKDYALSYLSLRALIGLWTAFLCIVLVATDASSLVCYITRFTEEAFASLICIIFIYEAIEKLIHLAETYPIHMHSQLDHLSLYYCRCVLPENPNNHTLQYWKDHNILAAEVNWANLTVSECQEMHGEFMGSACGHHGPYTPDVLFWSCILFFATFIVSSTLKTFKTSRYFPTRVRSMVSDFAVFLTIFTMVVLDFLIGVPSPKLQVPNVFKPTRDDRGWFINPIGPNPWWTVIAAIIPALLCTILIFMDQQITAVIINRKEHKLKKGCGYHLDLLMVAVMLGVCSIMGLPWFVAATVLSITHVNSLKLESECSAPGEQPKFLGIREQRVTGLMIFVLMGCSVFMTAVLKFIPMPVLYGVFLYMGVSSLQGIQFFDRLKLFGMPAKHQPDFIYLRHVPLRKVHLFTLVQLTCLVLLWVIKASPAAIVFPMMVLALVFVRKVMDLCFSKRELSWLDDLMPESKKKKLDDAKKKEEEEAEKMLDIGGDKFPLESRKLLSSPGKSSSFRCDPSEINISDEMPKTTVWKALSINSGNTKEKSPFN |
| 5030 | sp|P0DJI8|SAA1\_HUMAN | MKLLTGLVFCSLVLGVSSRSFFSFLGEAFDGARDMWRAYSDMREANYIGSDKYFHARGNYDAAKRGPGGVWAAEAISDARENIQRFFGHGAEDSLADQAANEWGRSGKDPNHFRPAGLPEKY |
| 5031 | sp|O95486|SC24A\_HUMAN | MSQPGIPASGGAPASLQAQNGAALASGSPYTNGPVQNALLSSQESVSQGYNFQLPGSYPHPIPAKTLNPVSGQSNYGGSQGSGQTLNRPPVASNPVTPSLHSGPAPRMPLPASQNPATTPMPSSSFLPEANLPPPLNWQYNYPSTASQTNHCPRASSQPTVSGNTSLTTNHQYVSSGYPSLQNSFIKSGPSVPPLVNPPLPTTFQPGAPHGPPPAGGPPPVRALTPLTSSYRDVPQPLFNSAVNQEGITSNTNNGSMVVHSSYDEIEGGGLLATPQLTNKNPKMSRSVGYSYPSLPPGYQNTTPPGATGVPPSSLNYPSGPQAFTQTPLGANHLTTSMSGLSLQPEGLRVVNLLQERNMLPSTPLKPPVPNLHEDIQKLNCNPELFRCTLTSIPQTQALLNKAKLPLGLLLHPFKDLVQLPVVTSSTIVRCRSCRTYINPFVSFLDQRRWKCNLCYRVNDVPEEFLYNPLTRVYGEPHRRPEVQNATIEFMAPSEYMLRPPQPPVYLFVFDVSHNAVETGYLNSVCQSLLDNLDLLPGNTRTKIGFITFDSTIHFYGLQESLSQPQMLIVSDIEDVFIPMPENLLVNLNESKELVQDLLKTLPQMFTKTLETQSALGPALQAAFKLMSPTGGRMSVFQTQLPTLGVGALKPREEPNHRSSAKDIHMTPSTDFYKKLALDCSGQQVAVDLFLLSGQYSDLASLGCISRYSAGSVYYYPSYHHQHNPVQVQKLQKELQRYLTRKIGFEAVMRIRCTKGLSIHTFHGNFFVRSTDLLSLPNVNPDAGYAVQMSVEESLTDTQLVSFQSALLYTSSKGERRIRVHTLCLPVVSTLNDVFLGADVQAISGLLANMAVDRSMTASLSDARDALVNAVIDSLSAYRSSVLSNQQPGLMVPFSLRLFPLFVLALLKQKSFQTGTNARLDERIFAMCQVKNQPLVYLMLTTHPSLYRVDNLSDEGALNISDRTIPQPPILQLSVEKLSRDGAFLMDAGSVLMLWVGKNCTQNFLSQVLGVQNYASIPQPMTDLPELDTPESARIIAFISWLREQRPFFPILYVIRDESPMKANFLQNMIEDRTESALSYYEFLLHIQQQVNK |
| 5032 | sp|Q27324|RYK1\_DROME | MAPNLLTIGLLLTLIASGQAHLNIFLNLHEVLRLIGVSAELYYVREGAINDYALNFAVPVPANISDVTFTWQSLVDHPLPYSINIATSDTEVLPRPILNISRIGDVPVEPQTWGIALKCSGTRNAEVTVTINVEVILDRATNNNTNLIFKRKKICLREEQDSAHEEYDDDDLDLLQTARKGHGGDIHYVDRNDEHVVANGHQAPEKQRPVVTESPVGRGNSGGSKRDFDPMLRENLVPPASGLVTLIVGGILALVLVSTLILIAYCAKGPSKRHPSNGVHLIKTSSFQRLPTISSTAHNSIYVCPSTITPTYATLTRPFREYEHEPEEFNRRLQELTVQKCRVRLSCLVQEGNFGRIYRGTYNDCQEVLVKTVAQHASQLQVNLLLQESMMLYEASHPNVLSVLGISIEDYATPFVLYAATGSVRNLKSFLQDPSYARSVTTIQTVLMGSQLAMAMEHLHNHGVIHKDIAARNCVIDDQLRVKLTDSALSRDLFPGDYNSLGDGEYRPIKWLSLEALQKSHYNEGSDVWSFGVLMWEMCTLGKLPYAEIDPYEMEHYLKDGYRLAQPFNCPDELFTIMAYCWASMPAERPSFSQLQICLSEFHTQITRYV |
| 5033 | sp|O94855|SC24D\_HUMAN | MSQQGYVATPPYSQPQPGIGLSPPHYGHYGDPSHTASPTGMMKPAGPLGATATRGMLPPGPPPPGPHQFGQNGAHATGHPPQRFPGPPPVNNVASSHAPYQPSAQSSYPGPISTSSVTQLGSQLSAMQINSYGSGMAPPSQGPPGPLSATSLQTPPRPPQPSILQPGSQVLPPPPTTLNGPGASPLPLPMYRPDGLSGPPPPNAQYQPPPLPGQTLGAGYPPQQANSGPQMAGAQLSYPGGFPGGPAQMAGPPQPQKKLDPDSIPSPIQVIENDRASRGGQVYATNTRGQIPPLVTTDCMIQDQGNASPRFIRCTTYCFPCTSDMAKQAQIPLAAVIKPFATIPSNESPLYLVNHGESGPVRCNRCKAYMCPFMQFIEGGRRYQCGFCNCVNDVPPFYFQHLDHIGRRLDHYEKPELSLGSYEYVATLDYCRKSKPPNPPAFIFMIDVSYSNIKNGLVKLICEELKTMLEKIPKEEQEETSAIRVGFITYNKVLHFFNVKSNLAQPQMMVVTDVGEVFVPLLDGFLVNYQESQSVIHNLLDQIPDMFADSNENETVFAPVIQAGMEALKAADCPGKLFIFHSSLPTAEAPGKLKNRDDKKLVNTDKEKILFQPQTNVYDSLAKDCVAHGCSVTLFLFPSQYVDVASLGLVPQLTGGTLYKYNNFQMHLDRQQFLNDLRNDIEKKIGFDAIMRVRTSTGFRATDFFGGILMNNTTDVEMAAIDCDKAVTVEFKHDDKLSEDSGALIQCAVLYTTISGQRRLRIHNLGLNCSSQLADLYKSCETDALINFFAKSAFKAVLHQPLKVIREILVNQTAHMLACYRKNCASPSAASQLILPDSMKVLPVYMNCLLKNCVLLSRPEISTDERAYQRQLVMTMGVADSQLFFYPQLLPIHTLDVKSTMLPAAVRCSESRLSEEGIFLLANGLHMFLWLGVSSPPELIQGIFNVPSFAHINTDMTLLPEVGNPYSQQLRMIMGIIQQKRPYSMKLTIVKQREQPEMVFRQFLVEDKGLYGGSSYVDFLCCVHKEICQLLN |
| 5034 | sp|Q13183|S13A2\_HUMAN | MATCWQALWAYRSYLIVFFVPILLLPLPILVPSKEAYCAYAIILMALFWCTEALPLAVTALFPLILFPMMGIVDASEVAVEYLKDSNLLFFGGLLVAIAVEHWNLHKRIALRVLLIVGVRPAPLILGFMLVTAFLSMWISNTATSAMMVPIAHAVLDQLHSSQASSNVEEGSNNPTFELQEPSPQKEVTKLDNGQALPVTSASSEGRAHLSQKHLHLTQCMSLCVCYSASIGGIATLTGTAPNLVLQGQINSLFPQNGNVVNFASWFSFAFPTMVILLLLAWLWLQILFLGFNFRKNFGIGEKMQEQQQAAYCVIQTEHRLLGPMTFAEKAISILFVILVLLWFTREPGFFLGWGNLAFPNAKGESMVSDGTVAIFIGIIMFIIPSKFPGLTQDPENPGKLKAPLGLLDWKTVNQKMPWNIVLLLGGGYALAKGSERSGLSEWLGNKLTPLQSVPAPAIAIILSLLVATFTECTSNVATTTIFLPILASMAQAICLHPLYVMLPCTLATSLAFMLPVATPPNAIVFSFGDLKVLDMARAGFLLNIIGVLIIALAINSWGIPLFSLHSFPSWAQSNTTAQCLPSLANTTTPSP |
| 5035 | sp|Q6UVJ0|SAS6\_HUMAN | MSQVLFHQLVPLQVKCKDCEERRVSIRMSIELQSVSNPVHRKDLVIRLTDDTDPFFLYNLVISEEDFQSLKFQQGLLVDFLAFPQKFIDLLQQCTQEHAKEIPRFLLQLVSPAAILDNSPAFLNVVETNPFKHLTHLSLKLLPGNDVEIKKFLAGCLKCSKEEKLSLMQSLDDATKQLDFTRKTLAEKKQELDKLRNEWASHTAALTNKHSQELTNEKEKALQAQVQYQQQHEQQKKDLEILHQQNIHQLQNRLSELEAANKDLTERKYKGDSTIRELKAKLSGVEEELQRTKQEVLSLRRENSTLDVECHEKEKHVNQLQTKVAVLEQEIKDKDQLVLRTKEAFDTIQEQKVVLEENGEKNQVQLGKLEATIKSLSAELLKANEIIKKLQGDLKTLMGKLKLKNTVTIQQEKLLAEKEEKLQKEQKELQDVGQSLRIKEQEVCKLQEQLEATVKKLEESKQLLKNNEKLITWLNKELNENQLVRKQDVLGPSTTPPAHSSSNTIRSGISPNLNVVDGRLTYPTCGIGYPVSSAFAFQNTFPHSISAKNTSHPGSGTKVQFNLQFTKPNASLGDVQSGATISMPCSTDKENGENVGLESKYLKKREDSIPLRGLSQNLFSNSDHQRDGTLGALHTSSKPTALPSASSAYFPGQLPNS |
| 5036 | sp|Q96G79|S35A4\_HUMAN | MSVEDGGMPGLGRPRQARWTLMLLLSTAMYGAHAPLLALCHVDGRVPFRPSSAVLLTELTKLLLCAFSLLVGWQAWPQGPPPWRQAAPFALSALLYGANNNLVIYLQRYMDPSTYQVLSNLKIGSTAVLYCLCLRHRLSVRQGLALLLLMAAGACYAAGGLQVPGNTLPSPPPAAAASPMPLHITPLGLLLLILYCLISGLSSVYTELLMKRQRLPLALQNLFLYTFGVLLNLGLHAGGGSGPGLLEGFSGWAALVVLSQALNGLLMSAVMKHGSSITRLFVVSCSLVVNAVLSAVLLRLQLTAAFFLATLLIGLAMRLYYGSR |
| 5037 | sp|Q9NQW1|SC31B\_HUMAN | MKLKELERPAVQAWSPASQYPLYLATGTSAQQLDSSFSTNGTLEIFEVDFRDPSLDLKHRGVLSALSRFHKLVWGSFGSGLLESSGVIVGGGDNGMLILYNVTHILSSGKEPVIAQKQKHTGAVRALDLNPFQGNLLASGASDSEIFIWDLNNLNVPMTLGSKSQQPPEDIKALSWNRQAQHILSSAHPSGKAVVWDLRKNEPIIKVSDHSNRMHCSGLAWHPDIATQLVLCSEDDRLPVIQLWDLRFASSPLKVLESHSRGILSVSWSQADAELLLTSAKDSQILCRNLGSSEVVYKLPTQSSWCFDVQWCPRDPSVFSAASFNGWISLYSVMGRSWEVQHMRQADKISSSFSKGQPLPPLQVPEQVAQAPLIPPLKKPPKWIRRPTGVSFAFGGKLVTFGLPSTPAHLVPQPCPRLVFISQVTTESEFLMRSAELQEALGSGNLLNYCQNKSQQALLQSEKMLWQFLKVTLEQDSRMKFLKLLGYSKDELQKKVATWLKSDVGLGESPQPKGNDLNSDRQQAFCSQASKHTTKEASASSAFFDELVPQNMTPWEIPITKDIDGLLSQALLLGELGPAVELCLKEERFADAIILAQAGGTDLLKQTQERYLAKKKTKISSLLACVVQKNWKDVVCTCSLKNWREALALLLTYSGTEKFPELCDMLGTRMEQEGSRALTSEARLCYVCSGSVERLVECWAKCHQALSPMALQDLMEKVMVLNRSLEQLRGPHGVSPGPATTYRVTQYANLLAAQGSLATAMSFLPRDCAQPPVQQLRDRLFHAQGSAVLGQQSPPFPFPRIVVGATLHSKETSSYRLGSQPSHQVPTPSPRPRVFTPQSSPAMPLAPSHPSPYQGPRTQNISDYRAPGPQAIQPLPLSPGVRPASSQPQLLGGQRVQVPNPVGFPGTWPLPGSPLPMACPGIMRPGSTSLPETPRLFPLLPLRPLGPGRMVSHTPAPPASFPVPYLPGDPGAPCSSVLPTTGILTPHPGPQDSWKEAPAPRGNLQRNKLPETFMPPAPITAPVMSLTPELQGILPSQPPVSSVSHAPPGVPGELSLQLQHLPPEKMERKELPPEHQSLKSSFEALLQRCSLSATDLKTKRKLEEAAQRLEYLYEKLCEGTLSPHVVAGLHEVARCVDAGSFEQGLAVHAQVAGCSSFSEVSSFMPILKAVLIIAHKLLV |
| 5038 | sp|Q3KQ35|S17AA\_XENLA | MSSPDGGYASDDQNQGKCSVPIMMTGLGQCQWAEPMTSLGEGKLKSDAGSANSRSKAEARIRRPMNAFMVWAKDERKRLAQQNPDLHNAELSKMLGKSWKSLTLAEKRPFVEEAERLRVQHMQDHPNYKYRPRRRKQVKRMKRAENGFMHMAEAQESAVLGADGRMCLENFSLGYHEQTYPHGQVPQSSHYREPQAVAPHYDGYSLPTPESSPLDLAEADPVFFTSPAQDECQMMPYSYNGSYPHQQNSMLVRQMPQTEQMGQVSPVQGMMACQSSPHMYYGQMYLPGSARHHQLHQAGQPSPPPEAQQMGRADHIQPADMLAEVDRTEFEQYLSYVAKSDLGMHYHAQESVVPTADNGPISSVLSDASTAVYYCNYPSA |
| 5039 | sp|Q8T045|RUMI\_DROME | MLINHLIVVLLISLVGTGGAEDDGLCSADQKSCAQSEPDQINEDEFSFKIRRQIEKANADYKPCSSDPQDSDCSCHANVLKRDLAPYKSTGVTRQMIESSARYGTKYKIYGHRLYRDANCMFPARCEGIEHFLLPLVATLPDMDLIINTRDYPQLNAAWGNAAGGPVFSFSKTKEYRDIMYPAWTFWAGGPATKLHPRGIGRWDQMREKLEKRAAAIPWSQKRSLGFFRGSRTSDERDSLILLSRRNPELVEAQYTKNQGWKSPKDTLDAPAADEVSFEDHCKYKYLFNFRGVAASFRLKHLFLCKSLVFHVGDEWQEFFYDQLKPWVHYVPLKSYPSQQEYEHILSFFKKNDALAQEIAQRGYDFIWEHLRMKDIKCYWRKLLKRYVKLLQYEVKPEDQLIYIGPKKDEL |
| 5040 | sp|Q24498|RYR\_DROME | MAEAEGGSEQDDVSFLRTEDMVTLSCTATGERVCLAAEGFGNRHCFLENIADKNVPPDLSQCVFVIEQALSVRALQELVTAAGSETGKGTGSGHRTLLYGNAILLRHHNSDMYLACLSTSSSNDKLSFDVGLQEHSQGEACWWTVHPASKQRSEGEKVRVGDDLILVSVATERYLHTTKENEQSIVNASFHVTHWSVQPYGTGISRMKYVGYVFGGDVLRFFHGGDECLTIPSTWGREAGQNIVIYEGGVVMAQARSLWRLELARTKWTGGFINWYHPMRIRHITTGRYLGVNDSNELILVKKEEASIATTTFCLRQEKDDEKKVLEDKDLEVIGSPIIKYGDTTVIVQHCETSLWLSYKSYETKKKGVGKVEEKQAILHEEGKMDDCLDFSRSQEEESKTARVIRKCSSLFTQFITALETLQSNRRHSIFFQKVNLNEMVMCLEDLINYFSQPEDDMEHEEKQNRFRALRNRQDLFQEEGVLNLILEAIDKINIITSQGFLASFLAGDETGQSWDLISTYLYQLLAAIIKGNHTNCAQFANSNRLNWLFSRLGSQASSEGSGMLDVLHCVLIDSPEALNMMRDEHIKVIISLLEKHGRDPKVLDVLCSLCVGNGVAVRSSQNNICDFLLPGKNLLLQTLLVDHVASIRPNIFVGRVDGSSMYQKWYFEVTMDHIEQTTHMMPHLRIGWANTSGYVPYPGGGKKWGGNGVGDDLYSFGFDGAFLWTGGRKTLVVDALPEEPFIRKGDVIGVAIDLSVPIITFTFNGVKVRGSFRDFNLDGMFFPVMSCSSKLSCRFLFGGDHGRLKFAPPMGFSALVQCLMPQQILSLDPCFYFGNLAKNVLAGPWLIEDDTAFVPKPVDTTGVTLPSSVDQIKEKLAENIHEMWALNKIEAGWSWGEHRDDYHRIHPCLTHFEKLPAAEKRYDNQLAVQTLKTIISLGYYITMDKPPARIRPVRLPNEIFMQGNGYKPAPLDLSAVTLTPKLEELVDQLAENTHNLWARERIQQGWTYGLNEDSENHRSPHLVPYAKVDEAIKKANRDTASETVRTLLVYGYVLDPPTGEGTEALLAEAQRLKFAGFRTYRVERNYAVTSGKWYFEFEVLTSGPMRVGWARADCYPGAMLGSEDTSWAFDGHNVTKMHAGSIEHFGVRYEAGDVIGCFIDVKEQTISFSLNGELLMDALGGETTFADVTAEGVGFVPACTLGVGQKARLIYGQDVDSLKFFTTCGLQEGYEPFCVNMRRPVTHWYTKDQPIFENTEEMPDCRIDVTRIPGGADTPPHLKISHNTFETMEKANWEFLRLSLPVTCMGEFISEQEKARRWDEIKNRQYRLMREAEIAAQMQVQTQAAHMDHMLKGGFNMNDIKGLTRNFDEHADAEADHMMRGPNRPPRKGSLTRNITFETDMSAALDEMQRSTSVLDMNGLGEEMDDKKKRGRSPFKFFSKKSRDQSREKMGARTLDTSLERRNTVAHGRNVVNQQMTTRAPTLRLNNAEIPPSPVPQGPKQLSGSNLGQQPVETSGDEMFDAECLKLINEYFYGVRIFPGQDPTHVYVGWVTTQYHLHSREFNKNKVRRGSVYIEDDYEMAIERIDRQSCYVVRADELFNEVTQDASGKGASQGMFVGCFVDTATGIIRFTCEGKDTSHRWMMEPDTKLFPAIFVEATSKEILQIELGRTPTTLPLSAAVLPTSDKHINPQSPPRLKVQCLRPHQWARVPNTALQVHALKLSDVRGWSMLCEDPVSMLALHIPEEDRCIDILELIEMDKLLSFHAHSLTLYAALCYQSNYRAAHALCQHVDQKQLLYAIRSEYMSGPLRQGFYDLLIALHLESHATTMEVCKNEYITPLGAELKELYSDEEMQHSLRSLVTESVRPQLRMTEITPPVIATSSMPSVSSEPIPDIDQLYSPKFPLEVVRQFVMEALKDAVEINQVHNRDPIGWTNENLFLPLIKLTDRLLLVGVLTDEDVQRLLVMIDPETWDQAFEREGKDEHRKGLLTMKMAEGAKLQMCYLLHHLYDTQLRHRVESIIAFSHDFVGDLQTDQLRRYIEIKQSDLPSAVAAKKTKEFRCPPREQMNQILCFKNLEPDDQDNCTCGLELRGRLGDFHDSLMQKVSLNALQEPDGVEGTAIEEVKTGPITKIYNFINTVKELEEGPKEVEEPEKKTPEEVFRKVLIKTIVSWAEESQIENPKLVREMFSLLLRQYDTVGELVRALEKTYVINTRARDDVAEMWVGLSQIRALLPVQMSQEEEELMRKRLWKLVNNATFFQHPDLIRILRVHENVMAVMMNTLGRRAQAQSDAPTQSEVAEGAPSKEKDTSHEMVVACCRFLCYFCRTGRQNQKAMFDHFDFLLDNANILLARPSLRGSTPLDVAYSSLMENTELALALREHYLEKIAVYLSRCGLQSNSELVEKGYPDLGWDPVEGERYLDFLRYCVWVNGESVEENANLVIRLLIRRPECLGPALRGEGEGLFRAIVEANRMSERISDRCKMQDEAEGTIAGLNFTHPLPEGEEDEDYIDTGAAILNFYCTLVDLLGRCAPDASVIEQGKNESLRARAILRSLVPLEDLQGVLSLKFTLSQTAPGEEKPKSDMPSGLLPNNKQSIVLFLERVYGIEAQDLFYRLLEDAFLPDLRTATILDKSDGSESDMALAMNRYIGNSILPLLIKHSKFYNEAENYASLLDATLHTVYRLSKNRMLTKGQREAVSDFLVALTSQMQPAMLLKLLRKLTVDVSKLSEYTTVALRLLTLHFDRCAKYYGSTQGQGSYGASSDEEKRLTMLLFSNIFDSLSNMDYDPELFGKALPCLIAIGCALPPDYSLSKNTDEDYYGRQMGAPDQPQYMPNPIDTNNVHLDNDLNSLVQKFSEHYHDAWASRRLEGGWTYGDIRSDNDRKHPRLKPYNMLSEYERERYRDPVRECLKGLLAIGWTVEHSEVEVALNHRGSTRRQSKPQINEFQNEGSPFNYNPHPVDMSNLTLSREMQNMAERLAENSHDIWAKKKNEELNGCGGVIHPQLVPYDLLTDKEKKKDRERSQEFLKYMQYQGYKLHKPSKGGAVEEGGATQAAVELRFSYSLLEKLIQYLDRATINMKLLKPSTTFSRRSSFKTATRDIKFFSKVVLPLMEKYFSTHRNYFIAIATATNNIGAASLKEKEMVASIFCKLAALLRNRLSAFGPDVRITVRCLQVLVKGIDARTLTKNCPEFIRTSMLTFFNQTSDDLGNTILNLQDGKYSHLRGTHLKTSTSLGYVNQVVLPVLTAMFDHLAACDYGSDLLLDEIQVASYKILAALYHLGTDGTLTHDRKYLKTEIERHRPALGSCLGAYSSCFPVAFLEPHLNKHNQYSLLNRIADHSLEAQDIMVKMESCMPNLETILAEVDQFVESDKTYNDAPHIIDVILPLLCAYLPFWWSQGPDNVSPTSGNHVTMVTADHMNPLLRNVLKMIKKNIGNDNAPWMTRIAAYTQQIIINTSEELLKDPFLPLAERVKKRTENMLHKEDSMRGFIKSATDDTSQVETQLQEDWNLLVRDIYSFYPLLIKYVDLQRNHWLKDNIPEAEELYNHVAEIFNIWSKSQYFLKEEQNFISANEIDNMALIMPTATRRSAISEGAPAVGGKVKKKKKNRDKKRDKDKEVQASLMVACLKRLLPVGLNLFAGREQELVQHCKDRYLKKMPEYDVIEFARNQLTLPDKLDPSDEMSWQHYLYSKLGKTEEPVDEQALEKANVNSNEKGKDKTQETVDRIVAMAKVLFGLHMIDHPQQQSKNVYRSVVSIQRKRAVIACFRQTSLHSLPRHRACNIFARSYYEQWLQEENVGQEVMVEDLTQTFEDSEKSKKEGEETDSKPDPLTQLVTTFCRGAMTERSGALQEDLLYMSYAQIAAKSTGKEEEEGGDEEGGEGGEEGEGTSIHEQEMEKQKLLFHQARLSNRGVAEMVLLHISASKGIPSEMVMTTLNLGIAILRGGNIDIQMGMLNHLKEKKDVGFFTSIAGLMNSCSVLDLDAFERNTKAEGLGVGSEGAAGEKNMHDAEFTCALFRFIQLTCEGHNLEWQNYLRTQAGNTTTVNVVICTVDYLLRLQESIMDFYWHYSSKEIIDPAGKANFFKAIEVASQVFNTLTEVIQGPCTLNQQALAHSRLWDAVGGFLFLFSHMQDKLSKHSSQVDLLKELLNLQKDMITMMLSMLEGNVVNGTIGKQMVDTLVESASNVELILKYFDMFLKLADLIESPSFHEVDMKNEGWVTPKDFREKMEQSKNYTPEEMDFLLACCERNHEGKIDYRAFVEHFHEPSKEIGFNLAVLLTNLSEHMPNEPRLARFLETAGSVLNYFEPFLGRIEILGSSKRIERVYFEIKDSNIEQWEKPQIRESKRAFFYSIVTEGGDKEKLEAFVNFCEDAIFEMTHASGLMATDDGGGNVKRDTAYSSYMSEEEEERAARDPIRRTITAVKEGLKFGVHMLSPANIKHQIGVMQTKSIPELIVGFFKIIFYIFYYTGYAHFCVVRYIFGILLNLMRGPAPEQEEEPVVEEETFGRALPPLPLEEPPGTVQAFGLDINKEENGMYKVVVHESPANSSMEEGGESSPEDGAAASGELVEGEPHQEPISIVDLLGGEAAKKAAQERQEAQKAQEAAMASIEAEAKKSSSAPQETPAVHQIDFSQYTHRAVSFLARNFYNLKYVALVLAFSINFMLLFYKVTSFTEEADSSAEEELILGSGSGGGADITGSGFGGSGDGGSGDGEMEDEIPELVHVDEDFFYMEHVLRIAACLHSLVSLAMLIAYYHLKVPLAIFKREKEIARRLEFEGLFIAEQPEDDDFKSHWDKLVISAKSFPVNYWDKFVKKKVRQKYSETYDFDSISNLLGMEKSTFAAQESEETGIFKYIMNIDWRYQVWKAGVTFTDNAFLYSLWYFSFSVMGNFNNFFFAAHLLDVAVGFKTLRTILQSVTHNGKQLVLTVMLLTIIVYIYTVIAFNFFRKFYIQEEDEEVDKKCHDMLTCFVFHLYKGVRAGGGIGDEIGDPDGDDYEVYRIIFDITFFFFVIIILLAIIQGLIIDAFGELRDQLESVKDNMESNCFICGMGKDFFDIVPHGFDTHVQKEHNLANYMFFLMHLINKPDTEYTGQETYVWNMYQQRSWDFFPVGDCFRKQYEDELSGGGGGG |
| 5041 | sp|Q9C0K1|S39A8\_HUMAN | MAPGRAVAGLLLLAAAGLGGVAEGPGLAFSEDVLSVFGANLSLSAAQLQHLLEQMGAASRVGVPEPGQLHFNQCLTAEEIFSLHGFSNATQITSSKFSVICPAVLQQLNFHPCEDRPKHKTRPSHSEVWGYGFLSVTIINLASLLGLILTPLIKKSYFPKILTFFVGLAIGTLFSNAIFQLIPEAFGFDPKVDSYVEKAVAVFGGFYLLFFFERMLKMLLKTYGQNGHTHFGNDNFGPQEKTHQPKALPAINGVTCYANPAVTEANGHIHFDNVSVVSLQDGKKEPSSCTCLKGPKLSEIGTIAWMITLCDALHNFIDGLAIGASCTLSLLQGLSTSIAILCEEFPHELGDFVILLNAGMSTRQALLFNFLSACSCYVGLAFGILVGNNFAPNIIFALAGGMFLYISLADMFPEMNDMLREKVTGRKTDFTFFMIQNAGMLTGFTAILLITLYAGEIELE |
| 5042 | sp|Q92541|RTF1\_HUMAN | MRGRLCVGRAAAAAAAVAVPLAGGQEGSPGGGRRGSRGTTMVKKRKGRVVIDSDTEDSGSDENLDQELLSLAKRKRSDSEEKEPPVSQPAASSDSETSDSDDEWTFGSNKNKKKGKARKIEKKGTMKKQANKTASSGSSDKDSSAESSAPEEGEVSDSDSNSSSSSSDSDSSSEDEEFHDGYGEDLMGDEEDRARLEQMTEKEREQELFNRIEKREVLKRRFEIKKKLKTAKKKEKKEKKKKQEEEQEKKKLTQIQESQVTSHNKERRSKRDEKLDKKSQAMEELKAEREKRKNRTAELLAKKQPLKTSEVYSDDEEEEEDDKSSEKSDRSSRTSSSDEEEEKEEIPPKSQPVSLPEELNRVRLSRHKLERWCHMPFFAKTVTGCFVRIGIGNHNSKPVYRVAEITGVVETAKVYQLGGTRTNKGLQLRHGNDQRVFRLEFVSNQEFTESEFMKWKEAMFSAGMQLPTLDEINKKELSIKEALNYKFNDQDIEEIVKEKERFRKAPPNYAMKKTQLLKEKAMAEDLGDQDKAKQIQDQLNELEERAEALDRQRTKNISAISYINQRNREWNIVESEKALVAESHNMKNQQMDPFTRRQCKPTIVSNSRDPAVQAAILAQLNAKYGSGVLPDAPKEMSKGQGKDKDLNSKSASDLSEDLFKVHDFDVKIDLQVPSSESKALAITSKAPPAKDGAPRRSLNLEDYKKRRGLI |
| 5043 | sp|Q19469|SAD1\_CAEEL | MFEALKEVLGEINSKLAAVNNELSSKIMSENIVSTRPVAQAQYCGPYKLEKTLGKGQTGLVKTGTHCITGRKVAIKIVNKEKLSESVLQKVEREIAIMKLIEHPHVLHLYDVYENKKYLYLLLEHVSGGELFDYLVRKGRLMSKEARKFFRQIISALDFCHAHNICHRDLKPENLLLDERNNIKVADFGMASLQVEGSMLETSCGSPHYACPEVIRGEKYDGRKADVWSCGVILYALLVGALPFDDDNLRNLLEKVKRGVFHIPHFVPADVQSLLRAMIEVDPGKRYSLADVFKHPWVSGTTKADPELELPMSQVVQTHVIPGEDSIDPDVLRHMNCLGCFKDKQKLINELLSPKHNTEKMVYFLLLDRKRRRPAQEDDTEIVLRGAAQNNDPPKKRTDSSRTSRYPMGSIADGSPINPRKTYGRNQKSGRHSSLGGSPTESPRSSTRDLFGSSSSGSYSARAGEDRDRGRSASRSTNSYHYYTQPVDPQTLAEAARHVRDAQERRESRDSGRGSSRKESKDRSDKSASSSSCKNDASSTSSVPHKYSPPSVMSESVVVSSSTMNSTNSSTNSLIAGNSQTSIGSTSGPWRSKLNNIKNSFLGTPRFHRRKMSNGTAESDSEDSQMIDTTDLVKKSWFGSLASSMSVERDDTHCVPVQGKTLNSIKAELIRAFLQIHELSHSVVGQNCFRVEYKRGPTVGGSVFSRGIKMNVDIIPSPQQVVIAGETPTYVVQFVLLAGPVRRFKRLVEHLSAILQNSTQQRADRQQQAALMVRPRRLSDSSVGSACSDSESNASSINMIARHSDKTETTSATSSDPYGPSPSMRSVGSGTANSYKSPTPHRRNTTAVTASSSSASNRYGPSSSSSGSYSNNADYSYHPEYSQRSNGSSAPKNQYSPGSQRSFAFSMFNKADKV |
| 5044 | sp|Q9NSA0|S22AB\_HUMAN | MAFSKLLEQAGGVGLFQTLQVLTFILPCLMIPSQMLLENFSAAIPGHRCWTHMLDNGSAVSTNMTPKALLTISIPPGPNQGPHQCRRFRQPQWQLLDPNATATSWSEADTEPCVDGWVYDRSVFTSTIVAKWDLVCSSQGLKPLSQSIFMSGILVGSFIWGLLSYRFGRKPMLSWCCLQLAVAGTSTIFAPTFVIYCGLRFVAAFGMAGIFLSSLTLMVEWTTTSRRAVTMTVVGCAFSAGQAALGGLAFALRDWRTLQLAASVPFFAISLISWWLPESARWLIIKGKPDQALQELRKVARINGHKEAKNLTIEVLMSSVKEEVASAKEPRSVLDLFCVPVLRWRSCAMLVVNFSLLISYYGLVFDLQSLGRDIFLLQALFGAVDFLGRATTALLLSFLGRRTIQAGSQAMAGLAILANMLVPQDLQTLRVVFAVLGKGCFGISLTCLTIYKAELFPTPVRMTADGILHTVGRLGAMMGPLILMSRQALPLLPPLLYGVISIASSLVVLFFLPETQGLPLPDTIQDLESQKSTAAQGNRQEAVTVESTSL |
| 5045 | sp|O88307|SORL\_MOUSE | MATRSSRRESRLPFLFALVALLPRGALGGGWTQRLHGGPAPLPQDRGFFVVQGDPRDLRLGTHGDAPGASPAARKPLRTRRSAALQPQPIQVYGQVSLNDSHNQMVVHWAGEKSNVIVALARDSLALARPKSSDVYVSYDYGKSFSKISEKLNFGVGNNSEAVISQFYHSPADNKRYIFVDAYAQYLWITFDFCSTIHGFSIPFRAADLLLHSKASNLLLGFDRSHPNKQLWKSDDFGQTWIMIQEHVKSFSWGIDPYDQPNAIYIERHEPFGFSTVLRSTDFFQSRENQEVILEEVRDFQLRDKYMFATKVVHLPGSQQQSSVQLWVSFGRKPMRAAQFVTKHPINEYYIADAAEDQVFVCVSHSNNSTNLYISEAEGLKFSLSLENVLYYSPGGAGSDTLVRYFANEPFADFHRVEGLQGVYIATLINGSMNEENMRSVITFDKGGTWEFLQAPAFTGYGEKINCELSQGCSLHLAQRLSQLLNLQLRRMPILSKESAPGLIIATGSVGKNLASKTNVYISSSAGARWREALPGPHYYTWGDHGGIIMAIAQGMETNELKYSTNEGETWKTFVFSEKPVFVYGLLTEPGEKSTVFTIFGSNKESVHSWLILQVNATDALGVPCTENDYKLWSPSDERGNECLLGHKTVFKRRTPHATCFNGEDFDRPVVVSNCSCTREDYECDFGFKMSEDLSLEVCVPDPEFSGKPYSPPVPCPVGSSYRRTRGYRKISGDTCSGGDVEARLEGELVPCPLAEENEFILYAMRKSIYRYDLASGATEQLPLSGLRAAVALDFDYERNCLYWSDLALDTIQRLCLNGSTGQEVIINSGLETVEALAFEPLSQLLYWVDAGFKKIEVANPDGDFRLTIVNSSVLDRPRALVLVPQEGVMFWTDWGDLKPGIYRSYMDGSAAYRLVSEDVKWPNGISVDSQWIYWTDAYLDCIERITFSGQQRSVILDSLPHPYAIAVFKNEIYWDDWSQLSIFRASKHSRSQVEILASQLTGLMDMKVFYKGKNAGSNACVPQPCSLLCLPKANNSKSCRCPEGVASSVLPSGDLMCDCPQGYQRKNNTCVKEENTCLRNQYRCSNGNCINSIWWCDFDNDCGDMSDERNCPTTVCDADTQFRCQESGTCIPLSYKCDLEDDCGDNSDESHCEMHQCRSDEFNCSSGMCIRSSWVCDGDNDCRDWSDEANCTAIYHTCEASNFQCHNGHCIPQRWACDGDADCQDGSDEDPVSCEKKCNGFHCPNGTCIPSSKHCDGLRDCPDGSDEQHCEPFCTRFMDFVCKNRQQCLFHSMVCDGIVQCRDGSDEDAAFAGCSQDPEFHKECDEFGFQCQNGVCISLIWKCDGMDDCGDYSDEANCENPTEAPNCSRYFQFHCENGHCIPNRWKCDRENDCGDWSDEKDCGDSHVLPSPTPGPSTCLPNYFHCSSGACVMGTWVCDGYRDCADGSDEEACPSLANSTAASTPTQFGQCDRFEFECHQPKKCIPNWKRCDGHQDCQDGQDEANCPTHSTLTCTSREFKCEDGEACIVLSERCDGFLDCSDESDEKACSDELTVYKVQNLQWTADFSGDVTLTWMRPKKMPSASCVYNVYYRVVGESIWKTLETHSNKTSTVLKVLKPDTTYQVKVQVHCLNKVHNTNDFVTLRTPEGLPDAPRNLQLSLNSEEEGVILGHWAPPVHTHGLIREYIVEYSRSGSKMWASQRAASNSTEIKNLLLNALYTVRVAAVTSRGIGNWSDSKSITTIKGKVIQAPNIHIDSYDENSLSFTLTMDGDIKVNGYVVNLFWSFDAHKQEKKTLSFRGGSALSHRVSNLTAHTSYEISAWAKTDLGDSPLAFEHILTRGSSPPAPSLKAKAINQTAVECIWTGPKNVVYGIFYATSFLDLYRNPKSVTTSLHNKTVIVSKDEQYLFLVRVLIPYQGPSSDYVVVKMIPDSRLPPRHLHAVHIGKTSALIKWESPYDSPDQDLFYAIAVKDLIRKTDRSYKVRSRNSTVEYSLSKLEPGGKYHIIVQLGNMSKDSSIKITTVSLSAPDALKIITENDHVLLFWKSLALKEKQFNETRGYEIHMSDSAVNLTAYLGNTTDNFFKVSNLKMGHNYTFTVQARCLFGSQICGEPAVLLYDELSSGADAAVIQAARSTDVAAVVVPILFLILLSLGVGFAILYTKHRRLQSSFSAFANSHYSSRLGSAIFSSGDDLGEDDEDAPMITGFSDDVPMVIA |
| 5046 | sp|Q9UHB9|SRP68\_HUMAN | MAAEKQVPGGGGGGGSGGGGGSGGGGSGGGRGAGGEENKENERPSAGSKANKEFGDSLSLEILQIIKESQQQHGLRHGDFQRYRGYCSRRQRRLRKTLNFKMGNRHKFTGKKVTEELLTDNRYLLLVLMDAERAWSYAMQLKQEANTEPRKRFHLLSRLRKAVKHAEELERLCESNRVDAKTKLEAQAYTAYLSGMLRFEHQEWKAAIEAFNKCKTIYEKLASAFTEEQAVLYNQRVEEISPNIRYCAYNIGDQSAINELMQMRLRSGGTEGLLAEKLEALITQTRAKQAATMSEVEWRGRTVPVKIDKVRIFLLGLADNEAAIVQAESEETKERLFESMLSECRDAIQVVREELKPDQKQRDYILEGEPGKVSNLQYLHSYLTYIKLSTAIKRNENMAKGLQRALLQQQPEDDSKRSPRPQDLIRLYDIILQNLVELLQLPGLEEDKAFQKEIGLKTLVFKAYRCFFIAQSYVLVKKWSEALVLYDRVLKYANEVNSDAGAFKNSLKDLPDVQELITQVRSEKCSLQAAAILDANDAHQTETSSSQVKDNKPLVERFETFCLDPSLVTKQANLVHFPPGFQPIPCKPLFFDLALNHVAFPPLEDKLEQKTKSGLTGYIKGIFGFRS |
| 5047 | sp|Q8BUN5|SMAD3\_MOUSE | MSSILPFTPPIVKRLLGWKKGEQNGQEEKWCEKAVKSLVKKLKKTGQLDELEKAITTQNVNTKCITIPRSLDGRLQVSHRKGLPHVIYCRLWRWPDLHSHHELRAMELCEFAFNMKKDEVCVNPYHYQRVETPVLPPVLVPRHTEIPAEFPPLDDYSHSIPENTNFPAGIEPQSNIPETPPPGYLSEDGETSDHQMNHSMDAGSPNLSPNPMSPAHNNLDLQPVTYCEPAFWCSISYYELNQRVGETFHASQPSMTVDGFTDPSNSERFCLGLLSNVNRNAAVELTRRHIGRGVRLYYIGGEVFAECLSDSAIFVQSPNCNQRYGWHPATVCKIPPGCNLKIFNNQEFAALLAQSVNQGFEAVYQLTRMCTIRMSFVKGWGAEYRRQTVTSTPCWIELHLNGPLQWLDKVLTQMGSPSIRCSSVS |
| 5048 | sp|G5EC32|SRBS1\_CAEEL | MMHHPHPFGSNLANSSEPQQPSGQYLNPAADAYNFDTFEDSDKFSPKGNVAALRNVIHGQLDMKTPTGNSSRYQKPAPPPVDSTPSWAKNVKVYEPNGYVDPHLNKHNMGRVLDGPVNPNKYFQGVPPASYSQVKHNESKPPVPPSTKPPHSAAQALQAQVLQSSKAPSQPQQSQKTSYRIPYDVALDPRHHLGEFDIDDSASIISSCISTFGESSEIAGFSAAAEQRHLYEQYRKKLMEEKNELKEGSETPCVSLSEKVMTSSTENLKNGNNQQNQQPEPQPPSSSIFNSELTPFGHVAPVAKQFEPTNFPPFSPEKESEIKRSIDLESSQLLVKSKSPAPYSTSSTDHYGTIRRKHKPVAIDLSKSSPNLASQSPSNLFFGASFEEKQNRSPMTSTPSYKEQGFKNDSLNDSLNQAFEIASSIETTKNAYEAPPTPKSASHDRSISDTYPVSSSTTSTWPSHTTTPTTTTAAAPIAAVAPQTYTEQQPMSTSMSSSVMSTNMDEPIVVGSHQQIPQQSPDSSPERNEDMSQWYRKMFKQMHRKGEDGSNEGKEQHFINPSNVTDGIGRTTPTASNLGRSRENLSFNQHRPDHPSSYFDSLEHGPNDQYNNQERVKQSNEEELLRLKAEKLAEELRKEKERKHSFIPSSAPSLQNNMDRLNSLLYDFSSDIQEPAHRDYTPQPVMTATAVYKFEPRSARELPLNRGDIIRIIREVDGYWMEGERNGRSGIFPTSYVQINTGNQGDSQKMRAIYPFTARSDTELSLKRGEIITRRRQIDSNWLEGSNQIGIVGIFPASYVEPIEQVEQHIPTIVPNRPKTPKIEDQVYNQVYKPNETVIMQSNQGYYDKAAVVPNNKVRFDLPSGSDSNLQMSLNPHQNQFPPTHTQTSTQQPSNYGMKKIEYEREKVVEEVPPMHMDQYRKLNDEPKNPKKDTNILMNAASLIPKGSEMYRAVYPYQPQKEDELQLYTNDIIFVVEKCDDGWFIGTSLRTGDFGIFPGNYVKRH |
| 5049 | sp|B4NBP4|SPAST\_DROWI | MVRTKSSSSSASSSSQKSPIKSNNGAGGGGSSSSHRQSHRTSIDERKSSSHAHSNNSNVSSSSRRAATATSGSSSPEGDDDTTTDDLTPTGSSPRSCNGRGHSSVHKQNLYVVSFPIIFLFNVLRSLIYQLFCIFRYLYGASTKVLYRPHRRDCNIEIVVQNSKEQQLQLQQHQHNQTLSYSLETGGVSGGSGGEQQVQVQPQRIRALQPLEMATNRPGGGYSPGPGDPLLAKQKHHHRRAFEYISKALKIDEENEGHKELAIELYRKGIKELEDGIAVDCWNGRGDVWDRAQRLHDKMQTNLSMARDRLHFLALREEDLQMQRLSLKEKQPAPKQPQRSQTKDPVKQPMLTSLNADPVKMKVRSSGYGPKQNGTSSSRPAPSGQTATGASGRKLTVGTKRPGNLPVTNKSQTLPRNLGSKTTVGAVQRQPAKTAATPPAVRRQFSSGRNTPPQRSRTPINNNASSGSGASTPMVSVKGVEQKLVQLILDEIVEGGAKVEWTDIAGQDVAKQALQEMVILPSVRPELFTGLRAPAKGLLLFGPPGNGKTLLARAVATECSATFLNISAASLTSKYVGDGEKLVRALFAVARHMQPSIIFIDEVDSLLSERSSNEHEASRRLKTEFLVEFDGLPGNPDGDRIVVLAATNRPQELDEAALRRFTKRVYVSLPDEQTRELLLNRLLQKQGSPLDTEALRRLAKITEGYSGSDLTALAKDAALEPIRELNVEQVKCLDISAMRPITEKDFHNSLKRIRRSVAPQSLNSYEKWSQDYGDITI |
| 5050 | sp|Q91Z67|SRGP2\_MOUSE | MTSPAKFKKDKEIIAEYDTQVKEIRAQLTEQMKCLDQQCELRVQLLQDLQDFFRKKAEIEMDYSRNLEKLAERFLAKTRSTKDQQFKKDQNVLSPVNCWNLLLNQVKRESRDHTTLSDIYLNNIIPRFVQVSEDSGRLFKKSKEVGQQLQDDLMKVLNELYSVMKTYHMYNADSISAQSKLKEAEKQEEKQIGKSVKQEDRQTPRSPDSTANVRIEEKHVRRSSVKKIEKMKEKRQAKYTENKLKAIKARNEYLLALEATNASVFKYYIHDLSDIIDQCCDLGYHASLNRALRTFLSAELNLEQSKHEGLDAIENAVENLDATSDKQRLMEMYNNVFCPPMKFEFQPHMGDMASQLCAQQPVQSELVQRCQQLQSRLSTLKIENEEVKKTMEATLQTIQDIVTVEDFDVSDCFQYSNSMESVKSTVSETFMSKPSIAKRRANQQETEQFYFTKMKEYLEGRNLITKLQAKHDLLQKTLGESQRTDCSLARRSSTVRKQDSSQAIPLVVESCIRFISRHGLQHEGIFRVSGSQVEVNDIKNAFERGEDPLAGDQNDHDMDSIAGVLKLYFRGLEHPLFPKDIFHDLIACVTMDNLQERAVHIRKVLLVLPKPTLIIMRYLFAFLNHLSQFSEENMMDPYNLAICFGPSLMSVPEGHDQVSCQAHVNELIKTIIIQHENIFPNPRELEGPIYSRGGSMEDYCDSTHGETTSAEDSTQDVTAEHHTSDDECEPIEAIAKFDYVGRTARELSFKKGASLLLYQRASDDWWEGRHNGIDGLIPHQYIVVQDTEDGVVERSSPKSEIEVMSEPPEEKVTARTGASCPSGGHVADIYLANINKQRKRPESGSIRKAFRSDSHGLGSSLTDSSSLGVGASCRPSSQPIMSQNLPKEGPDKCSISGHGSLNSISRHSSLKNRMDSPQIRKTATAGRSKSFNNHRPMDPEVIAQDIEATMNSALNELQELERQSSAKHTPDVVLDTLEPLKTSPVVAPTSEPSSPLHTQLLKDPEPAFQRSASTAGDIACAFRPVKSVKMAAPVKPPATRPKPTVFPKTNATSPGVNSSASPQATDKSCTV |
| 5051 | sp|Q86W54|SPA24\_HUMAN | MATPLGWSKAGSGSVCLALDQLRDVIESQEELIHQLRNVMVLQDENFVSKEEFQAVEKKLVEEKAAHAKTKVLLAKEEEKLQFALGEVEVLSKQLEKEKLAFEKALSSVKSKVLQESSKKDQLITKCNEIESHIIKQEDILNGKENEIKELQQVISQQKQIFRNHMSDFRIQKQQESYMAQVLDQKHKKASGTRQARSHQHPREK |
| 5052 | sp|Q3UND0|SKAP2\_MOUSE | MPNPSCTSSPGPLPEEIRNLLADVETFVADTLKGENLSKKAKEKRESLIKKIKDVKSVYLQEFQDKGDAEDGDEYDDPFAGPADTISLASERYDKDDDGPSDGNQFPPIAAQDLPFVIKAGYLEKRRKDHSFLGFEWQKRWCALSKTVFYYYGSDKDKQQKGEFAIDGYDVRMNNTLRKDGKKDCCFEICAPDKRIYQFTAASPKDAEEWVQQLKFILQDLGSDVIPEDDEERGELYDDVDHPAAVSSPQRSQPIDDEIYEELPEEEEDTASVKMDEQGKGSRDSVHHTSGDKSTDYANFYQGLWDCTGALSDELSFKRGDVIYILSKEYNRYGWWVGEMKGAIGLVPKAYLMEMYDI |
| 5053 | sp|Q61234|SNTA1\_MOUSE | MASGRRAPRTGLLELRCGAGSGAGGERWQRVLLSLAEDALTVSPADGEPGPEPEPAQLNGAAEPGAAPPQLPEALLLQRRRVTVRKADAGGLGISIKGGRENKMPILISKIFKGLAADQTEALFVGDAILSVNGEDLSSATHDEAVQALKKTGKEVVLEVKYMKEVSPYFKNSAGGTSVGWDSPPASPLQRQPSSPGPQPRNLSEAKHVSLKMAYVSRRCTPTDPEPRYLEICAADGQDAVFLRAKDEASARSWAGAIQAQIGTFIPWVKDELQALLTATGTAGSQDIKQIGWLTEQLPSGGTAPTLALLTEKELLFYCSLPQSREALSRPTRTAPLIATSSAHRLVHSGPSKGSVPYDAELSFALRTGTRHGVDTHLFSVESPQELAAWTRQLVDGCHRAAEGIQEVSTACTWNGRPCSLSVHIDKGFTLWAAEPGAARAMLLRQPFEKLQMSSDDGTSLLFLDFGGAEGEIQLDLHSCPKTMVFIIHSFLSAKVTRLGLLA |
| 5054 | sp|P01244|SOMA\_RAT | MAADSQTPWLLTFSLLCLLWPQEAGAFPAMPLSSLFANAVLRAQHLHQLAADTYKEFERAYIPEGQRYSIQNAQAAFCFSETIPAPTGKEEAQQRTDMELLRFSLLLIQSWLGPVQFLSRIFTNSLMFGTSDRVYEKLKDLEEGIQALMQELEDGSPRIGQILKQTYDKFDANMRSDDALLKNYGLLSCFKKDLHKAETYLRVMKCRRFAESSCAF |
| 5055 | sp|Q9QXV8|SPY2\_MOUSE | MEARAQSGNGSQPLLQTAHDSGRQRGEPDPRDALTQQVHVLSLDQIRAIRNTNEYTEGPTVVPRPGLKPAPRPSTQHKHERLHGLPEHRQPPRLQPSQVHSSRAPLSRSISTVSSGSRSSTRTSTSSSSSEQRLLGPSFSHGPAAADGIIRVQPKSELKPGDVKPLSKDDLGLHAYRCEDCGKCKCKECTYPRPLPSDWICDKQCLCSAQNVIDYGTCVCCVKGLFYHCSNDDEDNCADNPCSCSQSHCCTRWSAMGVMSLFLPCLWCYLPAKGCLKLCQGCYDRVNRPGCRCKNSNTVCCKVPTVPPRNFEKPT |
| 5056 | sp|P43321|SMD3\_YEAST | MTMNGIPVKLLNEAQGHIVSLELTTGATYRGKLVESEDSMNVQLRDVIATEPQGAVTHMDQIFVRGSQIKFIVVPDLLKNAPLFKKNSSRPMPPIRGPKRR |
| 5057 | sp|Q9D032|SSBP3\_MOUSE | MFAKGKGSAVPSDGQAREKLALYVYEYLLHVGAQKSAQTFLSEIRWEKNITLGEPPGFLHSWWCVFWDLYCAAPERRDTCEHSSEAKAFHDYSAAAAPSPVLGNIPPNDGMPGGPIPPGFFQGPPGSQPSPHAQPPPHNPSSMMGPHSQPFMSPRYAGGPRPPIRMGNQPPGGVPGTQPLLPNSMDPTRQQGHPNMGGSMQRMNPPRGMGPMGPGPQNYGSGMRPPPNSLGPAMPGINMGPGAGRPWPNPNSANSIPYSSSSPGTYVGPPGGGGPPGTPIMPSPADSTNSSDNIYTMINPVPPGGSRSNFPMGPGSDGPMGGMGGMEPHHMNGSLGSGDIDGLPKNSPNNISGISNPPGTPRDDGELGGNFLHSFQNDNYSPSMTMSV |
| 5058 | sp|Q02563|SV2A\_RAT | MEEGFRDRAAFIRGAKDIAKEVKKHAAKKVVKGLDRVQDEYSRRSYSRFEEEEDDDDFPAPADGYYRGEGAQDEEEGGASSDATEGHDEDDEIYEGEYQGIPRAESGGKGERMADGAPLAGVRGGLSDGEGPPGGRGEAQRRKDREELAQQYETILRECGHGRFQWTLYFVLGLALMADGVEVFVVGFVLPSAEKDMCLSDSNKGMLGLIVYLGMMVGAFLWGGLADRLGRRQCLLISLSVNSVFAFFSSFVQGYGTFLFCRLLSGVGIGGSIPIVFSYFSEFLAQEKRGEHLSWLCMFWMIGGVYAAAMAWAIIPHYGWSFQMGSAYQFHSWRVFVLVCAFPSVFAIGALTTQPESPRFFLENGKHDEAWMVLKQVHDTNMRAKGHPERVFSVTHIKTIHQEDELIEIQSDTGTWYQRWGVRALSLGGQVWGNFLSCFSPEYRRITLMMMGVWFTMSFSYYGLTVWFPDMIRHLQAVDYAARTKVFPGERVEHVTFNFTLENQIHRGGQYFNDKFIGLRLKSVSFEDSLFEECYFEDVTSSNTFFRNCTFINTVFYNTDLFEYKFVNSRLVNSTFLHNKEGCPLDVTGTGEGAYMVYFVSFLGTLAVLPGNIVSALLMDKIGRLRMLAGSSVLSCVSCFFLSFGNSESAMIALLCLFGGVSIASWNALDVLTVELYPSDKRTTAFGFLNALCKLAAVLGISIFTSFVGITKAAPILFASAALALGSSLALKLPETRGQVLQ |
| 5059 | sp|P08294|SODE\_HUMAN | MLALLCSCLLLAAGASDAWTGEDSAEPNSDSAEWIRDMYAKVTEIWQEVMQRRDDDGALHAACQVQPSATLDAAQPRVTGVVLFRQLAPRAKLDAFFALEGFPTEPNSSSRAIHVHQFGDLSQGCESTGPHYNPLAVPHPQHPGDFGNFAVRDGSLWRYRAGLAASLAGPHSIVGRAVVVHAGEDDLGRGGNQASVENGNAGRRLACCVVGVCGPGLWERQAREHSERKKRRRESECKAA |
| 5060 | sp|Q09363|SQV8\_CAEEL | MFPSRLLEKWWLRAFIALVIFFVWQLFYAINRVQSLEEERATLQATIEVLTRKSDGLRTQIFEKERNLVRLNGKVEEIDTQIRDHLSLLPRVNRSTPFIYFITPTHFRAAQRADLTRLSYTLSHVPNLHWIVVEDSDELTPSIAGILKRSKIPNTHLNARTPSDQKMRYDDPNWTLPRGVEQRNRALLWIQNQLSGVKEGVVYFGDDDNTYDLKIFGEMRKVKNAGVWPVGIVGGMFVETPILEKNGSISHFNAVWKPERPFPIDMAAFAVNISLVLSNANALFSFDVPRGYQESTFLENLGIHRYNMEPLAEMCTKVYVWHTRTEKPKLSKESIDRLTKKTGFNSLEAHALGVDN |
| 5061 | sp|Q8TCT6|SPPL3\_HUMAN | MAEQTYSWAYSLVDSSQVSTFLISILLIVYGSFRSLNMDFENQDKEKDSNSSSGSFNGNSTNNSIQTIDSTQALFLPIGASVSLLVMFFFFDSVQVVFTICTAVLATIAFAFLLLPMCQYLTRPCSPQNKISFGCCGRFTAAELLSFSLSVMLVLIWVLTGHWLLMDALAMGLCVAMIAFVRLPSLKVSCLLLSGLLIYDVFWVFFSAYIFNSNVMVKVATQPADNPLDVLSRKLHLGPNVGRDVPRLSLPGKLVFPSSTGSHFSMLGIGDIVMPGLLLCFVLRYDNYKKQASGDSCGAPGPANISGRMQKVSYFHCTLIGYFVGLLTATVASRIHRAAQPALLYLVPFTLLPLLTMAYLKGDLRRMWSEPFHSKSSSSRFLEV |
| 5062 | sp|Q9C004|SPY4\_HUMAN | MEPPIPQSAPLTPNSVMVQPLLDSRMSHSRLQHPLTILPIDQVKTSHVENDYIDNPSLALTTGPKRTRGGAPELAPTPARCDQDVTHHWISFSGRPSSVSSSSSTSSDQRLLDHMAPPPVADQASPRAVRIQPKVVHCQPLDLKGPAVPPELDKHFLLCEACGKCKCKECASPRTLPSCWVCNQECLCSAQTLVNYGTCMCLVQGIFYHCTNEDDEGSCADHPCSCSRSNCCARWSFMGALSVVLPCLLCYLPATGCVKLAQRGYDRLRRPGCRCKHTNSVICKAASGDAKTSRPDKPF |
| 5063 | sp|Q99MR6|SRRT\_MOUSE | MGDSDDEYDRRRRDKFRRERSDYDRSRERDERRRGDDWNDREWDRGRERRSRGEYRDYDRNRRERFSPPRHELSPPQKRMRRDWDEHSSDPYHSGYDMPYAGGGGGPTYGPPQPWGHPDVHIMQHHVLPIQARLGSIAEIDLGVPPPIMKSFKEFLLSLDDSVDETEAVKRYNDYKLDFRRQQMQDFFLAHKDEEWFRSKYHPDEVGKRRQEARGALQNRLKVFLSLMESGWFDNLLLDIDKADAIVKMLDAAVIKMEGGTENDLRILEQEEEEEQAGKTGEASKKEEARAGPALGEGERKANDKDEKKEDGKQAENDSSNDDKTKKSEGDGDKEEKKEEAEKEAKKSKKRNRKQSGDDSFDEGSVSESESESEGGQAEEEKEEAEEALKEKEKPKEEEKEKPKDAAGLECKPRPLHKTCSLFMRNIAPNISRAEIISLCKRYPGFMRVALSEPQPERRFFRRGWVTFDRSVNIKEICWNLQNIRLRECELSPGVNRDLTRRVRNINGITQHKQIVRNDIKLAAKLIHTLDDRTQLWASEPGTPPVPTSLPSQNPILKNITDYLIEEVSAEEEELLGSSGGPPPEEPPKEGNPAEINVERDEKLIKVLDKLLLYLRIVHSLDYYNTCEYPNEDEMPNRCGIIHVRGPMPPNRISHGEVLEWQKTFEEKLTPLLSVRESLSEEEAQKMGRKDPEQEVEKFVTSNTQELGKDKWLCPLSGKKFKGPEFVRKHIFNKHAEKIEEVKKEVAFFNNFLTDAKRPALPEIKPAQPPGPAQILPPGLTPGLPYPHQTPQGLMPYGQPRPPILGYGAGAVRPAVPTGGPPYPHAPYGAGRGNYDAFRGQGGYPGKPRNRMVRGDPRAIVEYRDLDAPDDVDFF |
| 5064 | sp|Q6NVH7|SWAP1\_HUMAN | MPAAGPPLLLLGTPGSGKTALLFAAALEAAGEGQGPVLFLTRRPLQSMPRGTGTTLDPMRLQKIRFQYPPSTRELFRLLCSAHEAPGPAPSLLLLDGLEEYLAEDPEPQEAAYLIALLLDTAAHFSHRLGPGRDCGLMVALQTQEEAGSGDVLHLALLQRYFPAQCWLQPDAPGPGEHGLRACLEPGGLGPRTEWWVTFRSDGEMMIAPWPTQAGDPSSGKGSSSGGQP |
| 5065 | sp|Q03497|STE20\_YEAST | MSNDPSAVSELPDKDSLDNGISNDNERAMGGNGDGGDGLRLPRTTGTLNVNALQKGTNAAHEAGGYKSMDPAKNAETTNDDDNNVVSLDDPIQFTRVSSSSVISGMSSSMSPHSNIDETKSLEAVTPNINTSNITPDHSADNTFSTINASESDHQFNDTLLSKLSLTDSTETIENNATVKHQQPVASSTVNSNKSSTDIRRATPVSTPVISKPSMTTTPRQINSASHSLSNPKHKQHKPKVKPSKPEAKSKPVSVKKSFPSKNPLKNSSPPKKQTEKSYYSSSSKKRKSGSNSGTLRMKDVFTSFVQNIKRNSQDDKRASSSSNNSSSSSITTALRISTPYNAKHIHHVGVDSKTGEYTGLPEEWEKLLTSSGISKREQQQNMQAVMDIVKFYQDVTETNGEDKMFKTFNTTTGLPGSPQVSTPPANSFNKFPPSTSDSHNYGSRTGTPMSNHVMSPTLNTDSSSANGKFIPSRPAPKPPSSASASAPIIKSPVMNSAANVSPLKQTHAPTTPNRTSPNRSSISRNATLKKEEQPLPPIPPTKSKTSPIISTAHTPQQVAQSPKAPAQETVTTPTSKPAQARSLSKELNEKKREERERRKKQLYAKLNEICSDGDPSTKYANLVKIGQGASGGVYTAYEIGTNVSVAIKQMNLEKQPKKELIINEILVMKGSKHPNIVNFIDSYVLKGDLWVIMEYMEGGSLTDVVTHCILTEGQIGAVCRETLSGLEFLHSKGVLHRDIKSDNILLSMEGDIKLTDFGFCAQINELNLKRTTMVGTPYWMAPEVVSRKEYGPKVDIWSLGIMIIEMIEGEPPYLNETPLRALYLIATNGTPKLKEPENLSSSLKKFLDWCLCVEPEDRASATELLHDEYITEIAEANSSLAPLVKLARLKKVAENMDADEDNDDDNDNEHINKTNNCDDNNDSKETVNLDVTEDDKQK |
| 5066 | sp|Q9WTK7|STK11\_MOUSE | MDVADPEPLGLFSEGELMSVGMDTFIHRIDSTEVIYQPRRKRAKLIGKYLMGDLLGEGSYGKVKEVLDSETLCRRAVKILKKKKLRRIPNGEANVKKEIQLLRRLRHRNVIQLVDVLYNEEKQKMYMVMEYCVCGMQEMLDSVPEKRFPVCQAHGYFRQLIDGLEYLHSQGIVHKDIKPGNLLLTTNGTLKISDLGVAEALHPFAVDDTCRTSQGSPAFQPPEIANGLDTFSGFKVDIWSAGVTLYNITTGLYPFEGDNIYKLFENIGRGDFTIPCDCGPPLSDLLRGMLEYEPAKRFSIRQIRQHSWFRKKHPLAEALVPIPPSPDTKDRWRSMTVVPYLEDLHGRAEEEEEEDLFDIEDGIIYTQDFTVPGQVLEEEVGQNGQSHSLPKAVCVNGTEPQLSSKVKPEGRPGTANPARKVCSSNKIRRLSACKQQ |
| 5067 | sp|Q7TNL3|STK40\_MOUSE | MKRRASDRGAGETSANAKALGTGIAGNNAKRAGPFVLGPRLGNSPVPSIVQCLARKDGTDDFYQLKILTLEERGEQGIESQEERQGKMLLHTEYSLLSLLHTQDGVVHHHGLFQDRTCEAVEDTESGRMVKKMKKRICLVLDCLCAHDFSDKTADLINLQHYVIKEKRLSERETVVIFYDVVRVVEALHQKNIVHRDLKLGNMVLNKRTHRITITNFCLGKHLVSEGDLLKDQRGSPAYISPDVLSGRPYRGKPSDMWALGVVLFTMLYGQFPFYDSIPQELFRKIKAAEYTIPEDGRVSENTVCLIRKLLVLDPQQRLAAADVLEALSAIIASWQSLSSLSGPLQVVPDIDDQMSSSDSSQEAKVTEECSQYEFENYMRQQLLLAEEKSSIHEARAWVPKRQFGSMPPVRRLGHDAQPMTSLDTAILAQRYLRK |
| 5068 | sp|P52823|STC1\_HUMAN | MLQNSAVLLVLVISASATHEAEQNDSVSPRKSRVAAQNSAEVVRCLNSALQVGCGAFACLENSTCDTDGMYDICKSFLYSAAKFDTQGKAFVKESLKCIANGVTSKVFLAIRRCSTFQRMIAEVQEECYSKLNVCSIAKRNPEAITEVVQLPNHFSNRYYNRLVRSLLECDEDTVSTIRDSLMEKIGPNMASLFHILQTDHCAQTHPRADFNRRRTNEPQKLKVLLRNLRGEEDSPSHIKRTSHESA |
| 5069 | sp|Q9NZ72|STMN3\_HUMAN | MASTISAYKEKMKELSVLSLICSCFYTQPHPNTVYQYGDMEVKQLDKRASGQSFEVILKSPSDLSPESPMLSSPPKKKDTSLEELQKRLEAAEERRKTQEAQVLKQLAERREHEREVLHKALEENNNFSRQAEEKLNYKMELSKEIREAHLAALRERLREKELHAAEVRRNKEQREEMSG |
| 5070 | sp|Q08945|SSRP1\_HUMAN | MAETLEFNDVYQEVKGSMNDGRLRLSRQGIIFKNSKTGKVDNIQAGELTEGIWRRVALGHGLKLLTKNGHVYKYDGFRESEFEKLSDFFKTHYRLELMEKDLCVKGWNWGTVKFGGQLLSFDIGDQPVFEIPLSNVSQCTTGKNEVTLEFHQNDDAEVSLMEVRFYVPPTQEDGVDPVEAFAQNVLSKADVIQATGDAICIFRELQCLTPRGRYDIRIYPTFLHLHGKTFDYKIPYTTVLRLFLLPHKDQRQMFFVISLDPPIKQGQTRYHFLILLFSKDEDISLTLNMNEEEVEKRFEGRLTKNMSGSLYEMVSRVMKALVNRKITVPGNFQGHSGAQCITCSYKASSGLLYPLERGFIYVHKPPVHIRFDEISFVNFARGTTTTRSFDFEIETKQGTQYTFSSIEREEYGKLFDFVNAKKLNIKNRGLKEGMNPSYDEYADSDEDQHDAYLERMKEEGKIREENANDSSDDSGEETDESFNPGEEEEDVAEEFDSNASASSSSNEGDSDRDEKKRKQLKKAKMAKDRKSRKKPVEVKKGKDPNAPKRPMSAYMLWLNASREKIKSDHPGISITDLSKKAGEIWKGMSKEKKEEWDRKAEDARRDYEKAMKEYEGGRGESSKRDKSKKKKKVKVKMEKKSTPSRGSSSKSSSRQLSESFKSKEFVSSDESSSGENKSKKKRRRSEDSEEEELASTPPSSEDSASGSDE |
| 5071 | sp|P29101|SYT2\_RAT | MRNIFKRNQEPIVAPATTTATMPLAPAAPADNSTESTGTGESQEDMFAKLKDKFFNEINKIPLPPWALIAMAVVAGLLLLTCCFCICKKCCCKKKKNKKEKGKGMKNAMNMKDMKGGQDDDDAETGLTEGEGEGEEEKEPENLGKLQFSLDYDFQANQLTVGVLQAAELPALDMGGTSDPYVKVFLLPDKKKKYETKVHRKTLNPAFNETFTFKVPYQELGGKTLVMAIYDFDRFSKHDIIGEVKVPMNTVDLGQPIEEWRDLQGGEKEEPEKLGDICTSLRYVPTAGKLTVCILEAKNLKKMDVGGLSDPYVKIHLMQNGKRLKKKKTTVKKKTLNPYFNESFSFEIPFEQIQKVQVVVTVLDYDKLGKNEAIGKIFVGSNATGTELRHWSDMLANPRRPIAQWHSLKPEEEVDALLGKNK |
| 5072 | sp|Q96A56|T53I1\_HUMAN | MFQRLNKMFVGEVSSSSNQEPEFNEKEDDEWILVDFIDTCTGFSAEEEEEEEDISEESPTEHPSVFSCLPASLECLADTSDSCFLQFESCPMEESWFITPPPCFTAGGLTTIKVETSPMENLLIEHPSMSVYAVHNSCPGLSEATRGTDELHSPSSPRVEAQNEMGQHIHCYVAALAAHTTFLEQPKSFRPSQWIKEHSERQPLNRNSLRRQNLTRDCHPRQVKHNGWVVHQPCPRQYNY |
| 5073 | sp|Q8NDG6|TDRD9\_HUMAN | MLRKLTIEQINDWFTIGKTVTNVELLGAPPAFPAGAAREEVQRQDVAPGAGPAAQAPALAQAPARPAAAFERSLSQRSSEVEYINKYRQLEAQELDVCRSVQPTSGPGPRPSLAKLSSVTCIPGTTYKYPDLPISRYKEEVVSLIESNSVVIIHGATGSGKSTQLPQYILDHYVQRSAYCSIVVTQPRKIGASSIARWISKERAWTLGGVVGYQVGLEKIATEDTRLIYMTTGVLLQKIVSAKSLMEFTHIIIDEVHERTEEMDFLLLVVRKLLRTNSRFVKVVLMSATISCKEFADYFAVPVQNKMNPAYIFEVEGKPHSVEEYYLNDLEHIHHSKLSPHLLEEPVITKDIYEVAVSLIQMFDDLDMKESGNKAWSGAQFVLERSSVLVFLPGLGEINYMHELLTSLVHKRLQVYPLHSSVALEEQNNVFLSPVPGYRKIILSTNIAESSVTVPDVKYVIDFCLTRTLVCDEDTNYQSLRLSWASKTSCNQRKGRAGRVSRGYCYRLVHKDFWDNSIPDHVVPEMLRCPLGSTILKVKLLDMGEPRALLATALSPPGLSDIERTILLLKEVGALAVSGQREDENPHDGELTFLGRVLAQLPVNQQLGKLIVLGHVFGCLDECLIIAAALSLKNFFAMPFRQHLDGYRNKVNFSGSSKSDCIALVEAFKTWKACRQTGELRYPKDELNWGRLNYIQIKRIREVAELYEELKTRISQFNMHVDSRRPVMDQEYIYKQRFILQVVLAGAFYPNYFTFGQPDEEMAVRELAGKDPKTTVVLKHIPPYGFLYYKQLQSLFRQCGQVKSIVFDGAKAFVEFSRNPTERFKTLPAVYMAIKMSQLKVSLELSVHSAEEIEGKVQGMNVSKLRNTRVNVDFQKQTVDPMQVSFNTSDRSQTVTDLLLTIDVTEVVEVGHFWGYRIDENNSEILKKLTAEINQLTLVPLPTHPHPDLVCLAPFADFDKQRYFRAQVLYVSGNSAEVFFVDYGNKSHVDLHLLMEIPCQFLELPFQALEFKICKMRPSAKSLVCGKHWSDGASQWFASLVSGCTLLVKVFSVVHSVLHVDVYQYSGVQDAINIRDVLIQQGYAELTEESYESKQSHEVLKGLFSKSVENMTDGSVPFPMKDDEKYLIRILLESFSTNKLGTPNCKAELHGPFNPYELKCHSLTRISKFRCVWIEKESINSVIISDAPEDLHQRMLVAASLSINATGSTMLLRETSLMPHIPGLPALLSMLFAPVIELRIDQNGKYYTGVLCGLGWNPATGASILPEHDMELAFDVQFSVEDVVEVNILRAAINKLVCDGPNGCKCLGPERVAQLQDIARQKLLGLFCQSKPREKIVPKWHEKPYEWNQVDPKLVMEQADRESSRGKNTFLYQLHKLVVLGT |
| 5074 | sp|Q9QXE4|T53I1\_MOUSE | MFQRLNKMFVGEVTTSSSQEPEFSEKEDDEWILVDFIDTCPGFSAEEEEEDEDIGEESSAEHTSVFSCLPASLECLTDTSDSCFLQFESCPMEESWFITPPPCFTAGGLTTIKVETSPMENLLIEHPSMSVYAVHNSCPGLSEASCGNDEYNSSGPRMEAQSEMGKHIHCCVAALAAQATFLEQPKSFRPSQWIKGHSERQSLNRNGLRRQNLTRDCHTRQMKHSGWVVHQPCPRQYNY |
| 5075 | sp|Q5EAN7|TE2IP\_RAT | MAEVMDLGKDPNGPTHSSTLFVREDGSAMSFYVRPSSAKRRLSTLILHGGGILCRVQKPGAVLLAQPGEALAEASGDFISTQYILDCVERNEKLELEAYRLGLTEQASDPKPGASAEGSTEPEPQPLTGRIAYTDADDVAILTYVKENARSPSSVTGNALWKAMEKSSLTQHSWQSLKDRYLKHLQGQEHKYLLGNAPVSPSSQKLKRKAEQDPEAADSGEPQNKRTPDLPEEECVKGETKENGEADNKLFEEATPELGEAVVDESPDFEIHITMCDGDPPTPEEDSETQPDEEEEEPKVSTQEVGTAIKIIRQLMEKFNLDLSTVTQALLKNSGELEATSSFLESGRRPDGFPIWCRQDDLDLQKDDDDTRNALVKKYGAQNVARRIEFRKK |
| 5076 | sp|Q9CWU0|TDR12\_MOUSE | MFEVLVLKIEDPGCFWVIIKGCSHFLEQEVDYQKLNTAMNDFYNSMCQDVEMKPLMLEEGQVCVVYCQELKCWCRALIKSIISSADHYLAECFLVDFAKYIPVKSKNIRVAVESFMQLPYRAKKFRLYGTKPVTLHIDFCEDNAEIVPATKWDSAAIQYFQNLLRATTQVEAKLCAVEEDTFEVYLYATIKNEKVCVNDDLVAKNFAYYVSPMGNKNLNPLEKPRQSLNSVTCSSKLSPSLTLWPMLLQGKDYHRMENKALNYKDSLTDSPKMMLEKQQQSLPLKHTEKCTESSVYWPTKRGITIYADPDVPSVSGSSQRPNEKPLRLTEKKDCDEKNGCVKLLQFLNPDPLRADGTSDLHQLQKVKLGTLQPGVVLRNRIEPCLTLEKSPLSADLKKMALTCLNSDTEDMKVAMEEMIPPEALQRNKFPGPSHTASYSWPPIARGCDMVVISHCGNDPLLYLPPLLTILQMGGCYKSLPSRNGPLAVIVCPGWKKAQFIFELLGDYSMSSRPLHPVLLTIGLHKDEAKNMKLPRGCDVIVTTPHSLLRLLTYRSLLFLRLCHLVLDEVHMLFFEANEQMFAILDNFKKNVEVEERESAPHQIVAVGVHWNKHIDHLVREFMKDPCVVITALEEAALYGSVQQVVHLCLECEKTSTLLQVLDFVPSQAQKTLIFTCSVAETETVCKGSPAEQGDKKTKSVLLLTERNASHAVGILRYLERADAKIPSELYEFTAGVLEAKEDKKARRPLCPYLKAFGFCKDKRICPDRHHINPEMDIPRKLSNKTLPVFGHIRVIPFYISNATNYFGRIIDKHVDLYETLNAEMNEYFKESSNKTSAEKVENLGLYGLEEKTLFQRVQVLEVSQKEDTWGLGSILVKLIDEGRTKLITRDQLLLLPEKFHTLPPQAVEFIVCRVKPADSEIEWNPKVTRYIHHKIVGKMHDAKVVLALGNTLWIDPMVHVTKLSNLKTSIIDYNVRAEILSMGMGIDNSEHLEQLKKLYKEAKLPAFEDLPCQTSIPTTVEDTVCLQGTQQGDGGTERGAGSQEDSDNQKPGVLSEDIGSETISSAPQPHGRSFHPQIKWFQKDDVVILKIKIRNVKDYKCKFFTDRVIFSAWVGDKFYLADLELQGDIRKDDCKCIIKDDEPLITLAKEKQECWCGLLKQRNPNVAFDFDHWEECEEDSPFSKVVNSKNLSCKVAALAESSGSSSDTTDGSESE |
| 5077 | sp|Q16650|TBR1\_HUMAN | MQLEHCLSPSIMLSKKFLNVSSSYPHSGGSELVLHDHPIISTTDNLERSSPLKKITRGMTNQSDTDNFPDSKDSPGDVQRSKLSPVLDGVSELRHSFDGSAADRYLLSQSSQPQSAATAPSAMFPYPGQHGPAHPAFSIGSPSRYMAHHPVITNGAYNSLLSNSSPQGYPTAGYPYPQQYGHSYQGAPFYQFSSTQPGLVPGKAQVYLCNRPLWLKFHRHQTEMIITKQGRRMFPFLSFNISGLDPTAHYNIFVDVILADPNHWRFQGGKWVPCGKADTNVQGNRVYMHPDSPNTGAHWMRQEISFGKLKLTNNKGASNNNGQMVVLQSLHKYQPRLHVVEVNEDGTEDTSQPGRVQTFTFPETQFIAVTAYQNTDITQLKIDHNPFAKGFRDNYDTIYTGCDMDRLTPSPNDSPRSQIVPGARYAMAGSFLQDQFVSNYAKARFHPGAGAGPGPGTDRSVPHTNGLLSPQQAEDPGAPSPQRWFVTPANNRLDFAASAYDTATDFAGNAATLLSYAAAGVKALPLQAAGCTGRPLGYYADPSGWGARSPPQYCGTKSGSVLPCWPNSAAAAARMAGANPYLGEEAEGLAAERSPLPPGAAEDAKPKDLSDSSWIETPSSIKSIDSSDSGIYEQAKRRRISPADTPVSESSSPLKSEVLAQRDCEKNCAKDISGYYGFYSHS |
| 5078 | sp|Q80UV9|TAF1\_MOUSE | MGPGWAGLLQDKGGGSPSVVMSDTDSDEESAGGGPFSLTGFLFGNINGAGQLEGESVLDDECKKHLAGLGALGLGSLITELTANEELSGSDGALVNDEGWIRSREDAVDYSDINEVAEDESRRYQQTMGSLQPLCHTDYDEDDYDADCEDIDCKLMPPPPPPPGPLKKEKDQDDITGVSEDGEGIILPSIIAPSSLASEKVDFSSSSDSESEMGPQDAAQSESKDGQLTLPLAGIMQHDATKLLPSVTELFPEFRPGKVLRFLRLFGPGKNVPSVWRSARRKRKKKHRELIQEGQVQEEECSVELEVNQKSLWNYDYAPPPLPDQCLSDDEITMMAPVESKFSQSTGDTDKVMDTKPRVAEWRYGPARLWYDMLGVPEDGSGFDYGFKMKKTEHESTIKCNIMKKLRKLEENSGVDLLADENFLMVTQLHWEDDIIWDGEDVKHKGTKPQRASLAGWLPSSMTRNAMAYNVQQGFTATLDDDKPWYSIFPIDNEDLVYGRWEDNIIWDAQNMPRILEPPVLTLDPNDENLILEIPDEKEEATSNSPSKENKKESSLKKSRILLGKTGVIKEEPQQNMSQPEVKDPWNLSNDEYYYPKQQGLRGTFGGNIIQHSIPAVELRQPFFPTHMGPIKLRQFHRPPLKKYSFGALSQPGPHSVQPLLKHIKKKAKMREQERQASGGGEMFFMRTPQDLTGKDGDLILAEYSEENGPLMMQVGMATKIKNYYKRKPGKDPGAPDCKYGETVYCHTSPFLGSLHPGQLLQAFENNLFRAPIYLHKMPESDFLIIRTRQGYFIRELVDIFVVGQQCPLFEVPGPNSKRANTHIRDFLQVFIYRLFWKSKDRPRRIRMEDIKKAFPSHSESSIRKRLKLCADFKRTGMDSNWWVLKSDFRLPTEEEIRAMVSPEQCCAYYSMIAAEQRLKDAGYGEKSFFAPEEENEEDFQMKIDDEVRTAPWNTTRAFIAAMKGKCLLEVTGVADPTGCGEGFSYVKIPNKPTQQKDDKEPQPVKKTVTGTDADLRRLSLKNAKQLLRKFGVPEEEIKKLSRWEVIDVVRTMSTEQARSGEGPMSKFARGSRFSVAEHQERYKEECQRIFDLQNKVLSSTEVLSTDTDSSSAEDSDFEEMGKNIENMLQNKKTSSQLSREREEQERKELQRMLLAAGSAAAGNNHRDDDTASVTSLNSSATGRCLKIYRTFRDEEGKEYVRCETVRKATVIDAYVRIRTTKDEEFIRKFALFDEQHREEMRKERRRIQEQLRRLKRNQEKEKLKGPPEKKPKKMKERPDLKLKCGACGAIGHMRTNKFCPLYYQTNAPPSNPVAMTEEQEEELEKTVIHNDNEELIKVEGTKIVLGKQLIESADEVRRKSLVLKFPKQQLPPKKKRRVGTTVHCDYLNRPHKSIHRRRTDPMVTLSSILESIINDMRDLPNTYPFHTPVNAKVVKDYYKIITRPMDLQTLRENVRKRLYPSREEFREHLELIVKNSATYNGPKHSLTQISQSMLDLCDEKLKEKEDKLARLEKAINPLLDDDDQVAFSFILDNIVTQKMMAVPDSWPFHHPVNKKFVPDYYKVIVSPMDLETIRKNISKHKYQSRESFLDDVNLILANSVKYNGPESQYTKTAQEIVNVCHQTLTEYDEHLTQLEKDICTAKEAALEEAELESLDPMTPGPYTPQPPDLYDNNTSLSVSRDASVYQDESNLSVLDIPSATSEKQLTQEGGDGDGDLADEEEGTVQQPQASVLYEDLLMSEGEDDEEDAGSDEEGDNPFFAIQLSESGSDSDVESGSLRPKQPRVLQENTRMGMENEESMMSYEGDGGDASRGLEDSNISYGSYEEPDPKSNTQDTSFSSIGGYEVSEEEEDEEEQRSGPSVLSQVHLSEDEEDSEDFHSIAGDTDLDSDE |
| 5079 | sp|Q96CP7|TLCD1\_HUMAN | MPRLLHPALPLLLGATLTFRALRRALCRLPLPVHVRADPLRTWRWHNLLVSFAHSIVSGIWALLCVWQTPDMLVEIETAWSLSGYLLVCFSAGYFIHDTVDIVASGQTRASWEYLVHHVMAMGAFFSGIFWSSFVGGGVLTLLVEVSNIFLTIRMMMKISNAQDHLLYRVNKYVNLVMYFLFRLAPQAYLTHFFLRYVNQRTLGTFLLGILLMLDVMIIIYFSRLLRSDFCPEHVPKKQHKDKFLTE |
| 5080 | sp|P04625|THA\_CHICK | MEQKPSTLDPLSEPEDTRWLDGKRKRKSSQCLVKSSMSGYIPSYLDKDEQCVVCGDKATGYHYRCITCEGCKGFFRRTIQKNLHPTYSCKYDGCCVIDKITRNQCQLCRFKKCISVGMAMDLVLDDSKRVAKRKLIEENRERRRKEEMIKSLQHRPSPSAEEWELIHVVTEAHRSTNAQGSHWKQKRKFLPEDIGQSPMASMPDGDKVDLEAFSEFTKIITPAITRVVDFAKKLPMFSELPCEDQIILLKGCCMEIMSLRAAVRYDPESETLTLSGEMAVKREQLKNGGLGVVSDAIFDLGKSLSAFNLDDTEVALLQAVLLMSSDRTGLICVDKIEKCQETYLLAFEHYINYRKHNIPHFWPKLLMKVTDLRMIGACHASRFLHMKVECPTELFPPLFLEVFEDQEV |
| 5081 | sp|B7UM99|TIR\_ECO27 | MPIGNLGNNVNGNHLIPPAPPLPSQTDGAARGGTGHLISSTGALGSRSLFSPLRNSMADSVDSRDIPGLPTNPSRLAAATSETCLLGGFEVLHDKGPLDILNTQIGPSAFRVEVQADGTHAAIGEKNGLEVSVTLSPQEWSSLQSIDTEGKNRFVFTGGRGGSGHPMVTVASDIAEARTKILAKLDPDNHGGRQPKDVDTRSVGVGSASGIDDGVVSETHTSTTNSSVRSDPKFWVSVGAIAAGLAGLAATGIAQALALTPEPDDPTTTDPDQAANAAESATKDQLTQEAFKNPENQKVNIDANGNAIPSGELKDDIVEQIAQQAKEAGEVARQQAVESNAQAQQRYEDQHARRQEELQLSSGIGYGLSSALIVAGGIGAGVTTALHRRNQPAEQTTTTTTHTVVQQQTGGNTPAQGGTDATRAEDASLNRRDSQGSVASTHWSDSSSEVVNPYAEVGGARNSLSAHQPEEHIYDEVAADPGYSVIQNFSGSGPVTGRLIGTPGQGIQSTYALLANSGGLRLGMGGLTSGGESAVSSVNAAPTPGPVRFV |
| 5082 | sp|Q96GM8|TOE1\_HUMAN | MAADSDDGAVSAPAASDGGVSKSTTSGEELVVQVPVVDVQSNNFKEMWPSLLLAIKTANFVAVDTELSGLGDRKSLLNQCIEERYKAVCHAARTRSILSLGLACFKRQPDKGEHSYLAQVFNLTLLCMEEYVIEPKSVQFLIQHGFNFNQQYAQGIPYHKGNDKGDESQSQSVRTLFLELIRARRPLVLHNGLIDLVFLYQNFYAHLPESLGTFTADLCEMFPAGIYDTKYAAEFHARFVASYLEYAFRKCERENGKQRAAGSPHLTLEFCNYPSSMRDHIDYRCCLPPATHRPHPTSICDNFSAYGWCPLGPQCPQSHDIDLIIDTDEAAAEDKRRRRRRREKRKRALLNLPGTQTSGEAKDGPPKKQVCGDSIKPEETEQEVAADETRNLPHSKQGNKNDLEMGIKAARPEIADRATSEVPGSQASPNPVPGDGLHRAGFDAFMTGYVMAYVEVSQGPQPCSSGPWLPECHNKVYLSGKAVPLTVAKSQFSRSSKAHNQKMKLTWGSS |
| 5083 | sp|Q22703|TFDP1\_CAEEL | MNPTNYDPRIGQPAQSRPQVSLSMGRRIVQMPTGLPRSYQDESHNEPVGWDEPSGVGGSSGAGGQQSDKPTGLRHFSTKVCEKVKEKGLTNYNEVADELVADYFQNNLIKQIDVVKQEYDMKNIRRRVYDALNVLLAMNIITKSKKDIRWIGLPASASQEISRLEEEKSRREASISSKKQALEEMVLQIVSYKNLVERNRKNEHKNGRPENDTVLHLPFLIINTDKEANVECSVSSDKSEFLFSFDKKFEIHDDFEILKKLNLACSLETTNPTAEEVKTAKSFLPTLHQHYVDEIIANRKKVEAEKEEKRKQQQLIADQMSMNLSQAQYVEPTSSLAQMSYSSRFNRQLQEHLINDGSEDRSAAAGIMERDYDMDKNVNQGSASRGPMYNTYSPQKIRAQVNTPLQVPPVTKRYYVQKTQGPMKHDMTPVVRTVNRPYSTVPPDRRLSTGATSVNSGPVKYYVPQGHQPMHQPVGQRYRVRPQQPQMSHMGQPHQVQQRVVYPAGSISGHQLQPGQRIVTQRIVAPGGPHPPGTIVRKVIRKIVVNNPKQSPAQQVIQKKMMEQDMCTFERKTEQPMTSAQAAALIQHPQPEEYDYFQ |
| 5084 | sp|Q63199|TNR6\_RAT | MLWIMAVLPLVLAGPELNVRMQGTDSIFEGLELKRSVRETDNNCSEGLYQVGPFCCQPCQPGERKVKDCTTSGGAPTCHPCTEGEEYTDRKHYSDKCRRCAFCDEGHGLEVETNCTRTQNTKCRCKENFYCNASLCDHCYHCTSCGLEDILEPCTRTSNTKCKKQSSNYKLLWLLILPGLAILFVFIYKRYRKRQPGDPESGIPSPESVPMNVSDVNLNKYIWRTAEKMKICDAKKFARQHKIPESKIDEIEHNSPQDAAEQKIQLLQCWYQSHGKTGACQALIQGLRKANRCDIAEEIQAMVWEDHENSISNSRNENEGQSLE |
| 5085 | sp|P08057|TNNI3\_BOVIN | MADRSGGSTAGDTVPAPPPVRRRSSANYRAYATEPHAKKKSKISASRKLQLKTLMLQIAKQELEREAEERRGEKGRALSTRCQPLELAGLGFAELQDLCRQLHARVDKVDEERYDVEAKVTKNITEIADLNQKIFDLRGKFKRPTLRRVRISADAMMQALLGARAKETLDLRAHLKQVKKEDTEKENREVGDWRKNIDALSGMEGRKKKFEG |
| 5086 | sp|Q09433|THIO1\_CAEEL | MLKRCNFKNQVKYFQSDFEQLIRQHPEKIIILDFYATWCGPCKAIAPLYKELATTHKGIIFCKVDVDEAEDLCSKYDVKMMPTFIFTKNGDAIEALEGCVEDELRQKVLEHVSAQ |
| 5087 | sp|Q9ULQ1|TPC1\_HUMAN | MAVSLDDDVPLILTLDEGGSAPLAPSNGLGQEELPSKNGGSYAIHDSQAPSLSSGGESSPSSPAHNWEMNYQEAAIYLQEGENNDKFFTHPKDAKALAAYLFAHNHLFYLMELATALLLLLLSLCEAPAVPALRLGIYVHATLELFALMVVVFELCMKLRWLGLHTFIRHKRTMVKTSVLVVQFVEAIVVLVRQMSHVRVTRALRCIFLVDCRYCGGVRRNLRQIFQSLPPFMDILLLLLFFMIIFAILGFYLFSPNPSDPYFSTLENSIVSLFVLLTTANFPDVMMPSYSRNPWSCVFFIVYLSIELYFIMNLLLAVVFDTFNDIEKRKFKSLLLHKRTAIQHAYRLLISQRRPAGISYRQFEGLMRFYKPRMSARERYLTFKALNQNNTPLLSLKDFYDIYEVAALKWKAKKNREHWFDELPRTALLIFKGINILVKSKAFQYFMYLVVAVNGVWILVETFMLKGGNFFSKHVPWSYLVFLTIYGVELFLKVAGLGPVEYLSSGWNLFDFSVTVFAFLGLLALALNMEPFYFIVVLRPLQLLRLFKLKERYRNVLDTMFELLPRMASLGLTLLIFYYSFAIVGMEFFCGIVFPNCCNTSTVADAYRWRNHTVGNRTVVEEGYYYLNNFDNILNSFVTLFELTVVNNWYIIMEGVTSQTSHWSRLYFMTFYIVTMVVMTIIVAFILEAFVFRMNYSRKNQDSEVDGGITLEKEISKEELVAVLELYREARGASSDVTRLLETLSQMERYQQHSMVFLGRRSRTKSDLSLKMYQEEIQEWYEEHAREQEQQRQLSSSAAPAAQQPPGSRQRSQTVT |
| 5088 | sp|Q8I8U7|TRA1\_DROME | MSVIENVPVNTFRNYLNILNDSSSKDELKLKATQELSEHFEMIMQSPAYPSFLDNSLKIFMRILQDGEPQFIQENTMQHIRKLILEMIHRLPITESLRQHVKTIITMMLKILKTDNEENVLVCLRIIIELHKHFRPSFNSEIQLFLGFVKEIYTNLPNHLTSIFETSNDVWVTDLKDLNLEVLLSESYSVRTIHVEKALDSNSQQQIYNLLPRGILSLKVLQELPIIVVLMYQIYKNAVHQEVSEFIPLILTTINLQPTVTRRNSPQKEIYVEFMGAQIKTLSFLAYIVRIFQEVVIASSLSVTSGMLNLMKNCPKEAAHLRKELLIAARHIFATDLRQKFIPSIEQLFDEDLLIGKGVTLDSIRPLAYSTLADLAHHVRQSLNIDVLIKAVNLFSKNVHDESLAVGIQTMSCKLLLNLVDCLRHHSETEPQRSKALLSKLLKVFVKKFETIAKIQLPLIIQKCKGHAFSGALVNSSGNASLSHINAPDLKDDISNIQVSASGSQWIYSVNVAEFRSLVKTLVGGVKTITWGFFNSKFQLTDTKLANHEKIFGPEIVCSYIDLVYYAMEALDIYTINVNPNQQRTSGLISRSKEEKEVLEHFSGIFLMMHSQNFQEIFSTTINFLVERIYKNQSLQVIANSFLANPTTSPLFATVLVEYLLNKMEEMGSNLERSNLYLRLFKLVFGSVSLFPVENEQMLRPHLHKIVNRSMELALISEEPYNYFLLLRALFRSIGGGSHDLLYQEFLPLLPNLLEGLNRLQSGFHKQHMRDLFVELCLTVPVRLSSLLPYLPMLMDPLVSALNGSPTLISQGLRTLELCVDNLQPDFLYDHIQPVRAALMQALWKTLRNQDNAALVAFRVLGKFGGGNRKMMVEPQALSYIINDKPTISIVTYFQEYETPIDFPVDEAIKSAFRALGSNSTDQFYRRQSWEVIRCFLAAFISLDDEKHMLLKLFTHVDFVENKIMNWSTFQHKAGNETVRETHQTALIGMLVASATKDLRDSVCPVMAAVVRHYTMVAIAQQAGPFPQKGYQATHGIDPMILIDALASCMGHEEKELCKPGIACMGIILDTATNIMGNKDRACKLPIIQYLAEKMVSLCYDRPWYSKVGGCQAIQFLCKHMSLRALFQNLFNFLKAFMFVLMDLEGDVSNGAIEITKSYMKSMLEICLTPINECYKNIDLKDLQAKATYEVIHELVRHITSPNTIVREESMVLLKHIGTIQSKTVSEVMDPHKDVLADIIPPKKHLLRHQPANAQIGLMDGNTFCTTLEPRLFTIDLTNTYHKLFFHELLTLSEAEDATLAKLDCYKNVPNLIPLRTSALRALAACHYISDIGYKEKIINIIFKVMESDKSELQTTAFHCMKHFITGVTLEKEKVQSAMRPLLLKLGDHRNLSIPAIKRLSYFTQIFPQMFNEKLSEQILQHCSKIMEIFVSEYKSTSPNVNFFASSKGGEYEQKIVILIEMFFYISASVKYIEKLCQLVLKTEKNLMIEASSPYREALIKFLQRFPTETVDLFLTESLMIDPQWNRLFIYLLKHETGVSFRAVIKSSRYNNLIHYLNTHTEFPEALKYEIQHQAVLIIFTLMESDDQWIPTRQDIVDALKNCWQNYLSTLSSEDVLCDLWHLIGKILLHYFSNNTNDIELLFQLLRALCFRFIPDVYFLRDFLQHTVAQSFTVNWKRNAFFYFVENFNNSFLSEELKAKIITAVIIPCFAVSFDKGEGNKLIGAPPTPYQEDEKNIVSVFINKVFDPDKQYDDAVRIALLQLACLLVERASQHIHDGDANNKRQGNKLRRLMTFAWPCLLSKSSVDPTARYHGHLLLSHIIARLAIHKKIVLQVFHSLLKGHALEARSIVKQALDVLTPAMPLRMEDGNTMLTHWTKKIIVEEGHAMQQLFHILQLIIRHYKVYFPVRHQLVQHLINYMQRLGFPPTASIEHKKLAVDLAEVIIKWELHRIKDDRETKTDGTEEELIQESSVKRSGIDLVETRKKSFDIIRETTVQGVGSHTKPDDILRSIDKSYCDTVLNFLIRLACQVNDPQAPILSPGESLSRRCVMLLKMAMRPEIWPQPFDIKLNWLDKVLATVETPHHNLNNICTGIDFLTFLTTILSPDQLVSIIRPVQRGLSLCIIHQNTRIVRLMHMFLTRIMAIFPPDTQHKHEDLDLLYTAVSKMIAENLTSYEKSPQPNASSLFGTLMILKACTTNNASYIDRILVQFIRVLNHLTRDHINTIGGNTVISQSPDSNALPLELLVLSLELIKNRIFVMSVEIRKLFIGTILVSLIEKSTEVKIIKCIIKMLDEWIKTKEPNVMTQVPSIREKSALLVKLMQNVEKKFTDEIELNIQFLEIINFIYRDEILKQTELTNKLEGAFLNGLRFQNPNVRSKFFEILDSSMRRRLHDRLLYIICSQAWDTIGSHYWIKQCIELLILTANTMMQIQCSNEQFKIPSITSVIPVNSSETQENSFVSFLSSHSESFDIIQTVDDKDDVYDIDLNADRKEDCQQILPNRRVTLVELVYKQAEFLEANRNIRTDQMLVATSQLCHIDTQLAQSVWLSMFPRIWSIFTEDQRCNITKELIPFLSSGTNVNQKDCHPSTLNTFVESLTKCAPPIYIPPNLLAYLGKSHNLWHRAILVLEDMAVNQSMQSKDIDGGENQFSDLDVQQSNNIFDSLSKMYSSMHEEDLWAGLWLKFAHYPETNIAVSYEQMGFFEEAQGAYDLAMTKFKQDLSNGVVNTYVNSELLLWENHWMRCAKELNQWDILLDYAQTNKDKNMFLILESSWRVPDWNLMKIALAKTEQCYLKHYGFKINLYKGYLSILHQEERQTGNIERYVEIASSLCIREWRRLPNIVSHIHLPYLQASQQIMELHEASQIHQGLAQSRNNSLHDMKAIVKTWRNRLPIISDDLSHWSDIFTWRQHHYQIITQHLEQQSDQGSTMLGVHASAQAIISFGKIARKHNLTGVCQETLSRIYTIPSVPIVDCFQKIRQQVKCYLQMPSTSGKNEINEALEVIESTNLKYFTGEMNAEFYALKGLLLAQIGRSEEAGKSFSVAAQLHDGLTKAWAMWGDYMEQIFLKERKITLAVDALICYLQASRNQIESKTRKYIAKVLWFLSYDNNTKILISTLEKHVAGIPPSYWLPWIPQLLCCLEQFEGDVILNLLSQIGRLYPQAVYFPIRTLYLTLKIEQREKHKTAEQAVKSSCSNIDGTTLSFGRGASHGNIPSINPIKATPPMWRCSKVMQLQREVHPTILSSLEGIVDQMVWFRESWTEEVLRQLRQGLIKCYAIAFEKRDTVQHSTITPHTLHFVKKLGSTFGIGIENVPGSVTSSISNSAASESLARRAQVTFQDPVFQKMKEQFTNDFDFSKPGAMKLHNLISKLKTWIKVLETKVKKLPTSFLIEDKCRFLSNFSQKTAEVELPGELLIPLSSHYYVRIARFMPRVEIVQKNNTAARRLYIRGTNGKIYPYLVVLDSGLGDARREERVLQLKRMLNYYLEKQKETSRRFLNITVPRVVPISPQMRLAEDNPNSISLLKIFKKCCQSMQVDYDMPIVKYYDRLSEVQARGTPTTHTLLREIFSEIQWTMVPKTLLKHWALKTFLAATDFWHFRKMLTLQLALAFLCEHALNLTRLNADMMYLHQDSGLMNISYFKFDVNDDKCQLNQHRPVPFRLTPNVGEFITHFGITGPLSAAIVATARCFIQPNYKLSSILQTILRDEIIALQKKGFRECKLIEGSEDRYSDGNCMEHSVNIVNSAVDIIMTRFNKISYFDSIENKKISVLVQSATNIDNLCRMDPAWHPWL |
| 5089 | sp|P56076|TPIS\_HELPY | MTKIAMANFKSAMPIFKSHAYLKELEKTLKPQHFDRVFVFPDFFGLLPNSFLHFTLGVQNAYPRDCGAFTGEITSKHLEELKIHTLLIGHSERRTLLKESPSFLKEKFDFFKSKNFKIVYCIGEELTTREKGFKAVKEFLSEQLENIDLNYPNLVVAYEPIWAIGTKKSASLEDIYLTHGFLKQILNQKTPLLYGGSVNTQNAKEILGIDSVDGLLIGSASWELENFKTIISFL |
| 5090 | sp|Q8BWC0|TPC2\_MOUSE | MAAEEQPLLGRDRGSGQVHSGAAADQELCIDQAVVFIEDAIKYRSIYHRMDAGSLWLYRWYYSNVCQRVLGFIIFLILILAFVEVPSSFTKTADVRYRSQPWQPPCGLTETIEAFCLLAFLVDLSVKGYLVGQAQLQQNLWLLAYFMVLVVSVVDWIVSLSLACEEPLRMRRLLRPFFLLQNSSMMKKTLKCIRWSLPEMASVGLLLAIHLCLFTIIGMLLFTIGEKDEAQDQERLAYFRNLPEALTSLLVLLTTSNNPDVMIPAYTQNRAFALFFIVFTLIGSLFLMNLLTAIIYNQFRGYLMKSLQTSLFRRRLGARAAYEVLASRAGPAGTTPELVGVNPETFLPVLQKTQLNKTHKQAIMQKVQSYEGRPMLADEFQKLFDEVDKGLAKERPLKPQYQSPFLQTAQFIFSHHYFDYLGNLVALGNLLSICVFLVLDSDLLPGERDDFVLGILDYIFILYYLLELLFKVFALGLPGYLSYHSNVFDGLLTIILLVSEICTLAVYRLPHSGWKPEQYGPLSLWDMTRLMNTLIVFRFLRIIPNIKPMAEVANTILGLIPNLRAFGGILVVAYYVFAMIGINLFRGVIVPPGNSSLVPDNNSAVCGSFEQLGYWPNNFDDFAAALITLWNVMVVNNWQVILEAYKRYAGPWSMVYFVLWWLVSSVIWINLFLALLLENFLHRWDPQGHKQLLVGTKQMSVELMFRDILEEPKEEELMEKLHKHPHLHLCR |
| 5091 | sp|B6CJY4|TRAF6\_CERAT | MSLLNCENSCGSSQSESDCCVAMASSCSAATKDDSVGGTASTGNLSSSFMEEIQGYDVEFDPPLESKYECPICLMALREAVQTPCGHRFCKACIIKSIRDAGHKCPVDNEILLENQLFPDNFAKREILSLMVKCPNEGCLHKMELRHLEDHQAHCEFALVDCPQCQRPFQKFHINIHILKDCPRRQVSCDNCAALVAFEDKEIHDQNCPLANVICEYCNTILIREQMPNHYDLDCPTAPIPCTFSTFGCHEKMQRNHLARHLQENTQSHMRMLAQAVHSLSLIPDSGYVSEVRNFQETIHQLEGRLVRQDHQIRELTAKMETQSTYVSELKRTIRTLEDKVAEIEAQQCNGIYIWKIGNFGMHLKCQEEEKPVVIHSPGFYTGKPGYKLCMRLHLQLPTAQRCANYISLFVHTMQGEYDSHLPWPFQGTIRLTILDQSEAPVRQNHEEIMDAKPDLLAFQRPTIPRNPKGFGYVTFMHLEALRQRTFIKDDTLLVRCEVSTRFDMGSLRREGFQPRSTDSGV |
| 5092 | sp|Q60803|TRAF3\_MOUSE | MESSKKMDAAGTLQPNPPLKLQPDRGAGSVLVPEQGGYKEKFVKTVEDKYKCEKCRLVLCNPKQTECGHRFCESCMAALLSSSSPKCTACQESIIKDKVFKDNCCKREILALQVYCRNEGRGCAEQLTLGHLLVHLKNECQFEELPCLRADCKEKVLRKDLRDHVEKACKYREATCSHCKSQVPMIKLQKHEDTDCPCVVVSCPHKCSVQTLLRSELSAHLSECVNAPSTCSFKRYGCVFQGTNQQIKAHEASSAVQHVNLLKEWSNSLEKKVSLLQNESVEKNKSIQSLHNQICSFEIEIERQKEMLRNNESKILHLQRVIDSQAEKLKELDKEIRPFRQNWEEADSMKSSVESLQNRVTELESVDKSAGQAARNTGLLESQLSRHDQMLSVHDIRLADMDLRFQVLETASYNGVLIWKIRDYKRRKQEAVMGKTLSLYSQPFYTGYFGYKMCARVYLNGDGMGKGTHLSLFFVIMRGEYDALLPWPFKQKVTLMLMDQGSSRRHLGDAFKPDPNSSSFKKPTGEMNIASGCPVFVAQTVLENGTYIKDDTIFIKVIVDTSDLPDP |
| 5093 | sp|Q9C029|TRIM7\_HUMAN | MAAVGPRTGPGTGAEALALAAELQGEATCSICLELFREPVSVECGHSFCRACIGRCWERPGAGSVGAATRAPPFPLPCPQCREPARPSQLRPNRQLAAVATLLRRFSLPAAAPGEHGSQAAAARAAAARCGQHGEPFKLYCQDDGRAICVVCDRAREHREHAVLPLDEAVQEAKELLESRLRVLKKELEDCEVFRSTEKKESKELLKQMAAEQEKVGAEFQALRAFLVEQEGRLLGRLEELSREVAQKQNENLAQLGVEITQLSKLSSQIQETAQKPDLDFLQEFKSTLSRCSNVPGPKPTTVSSEMKNKVWNVSLKTFVLKGMLKKFKEDLRGELEKEEKVELTLDPDTANPRLILSLDLKGVRLGERAQDLPNHPCRFDTNTRVLASCGFSSGRHHWEVEVGSKDGWAFGVARESVRRKGLTPFTPEEGVWALQLNGGQYWAVTSPERSPLSCGHLSRVRVALDLEVGAVSFYAVEDMRHLYTFRVNFQERVFPLFSVCSTGTYLRIWP |
| 5094 | sp|P97473|TRBP2\_MOUSE | MSEEDQGSGTTTGCGLPSIEQMLAANPGKTPISLLQEYGTRIGKTPVYDLLKAEGQAHQPNFTFRVTVGDTSCTGQGPSKKAAKHKAAEVALKHLKGGSMLEPALEDSSSFSLLDSSPPEDTPVVAAEAAAPVPSAVLTRSPPMEMQPPVSPQQSECNPVGALQELVVQKGWRLPEYMVTQESGPAHRKEFTMTCRVERFIEIGSGTSKKLAKRNAAAKMLLRVHTVPLDARDGNEAEPDDDHFSIGVSSRLDGLRNRGPGCTWDSLRNSVGEKILSLRSCSVGSLGALGSACCSVLSELSEEQAFHVSYLDIEELSLSGLCQCLVELSTQPATVCYGSATTREAARGDAAHRALQYLRIMAGSK |
| 5095 | sp|Q9V477|TOLL8\_DROME | MLATTHMLYVLIATCVIPIFGAALSKTVLYQAPDECRWSGGGEHDITLVCHLRTINSELENTNFSVIQPQNTVRLRLECNDALFFQSSLSPDSFRSLVELRDLTIEYCKLGNLTDGSFRGLQELRNLTIRTHNGDWSTMSLEMASNSFVEFRQLERLDLSLNNIWLIPDGMVCPLKSLQHLNASYNKIQDISNFYFSASLSSRKARVCGSTLQSLDLSANKMVSLPTAMLSALGRLTHLNMAKNSMSFLADRAFEGLLSLRVVDLSANRLTSLPPELFAETKQLQEIYLRNNSINVLAPGIFGELAELLVLDLASNELNSQWINAATFVGLKRLMMLDLSANKISRLEAHIFRPLASLQILKLEDNYIDQLPGGIFADLTNLHTLILSRNRISVIEQRTLQGLKNLLVLSLDFNRISRMDQRSLVNCSQLQDLHLNDNKLQAVPEALAHVQLLKTLDVGENMISQIENTSITQLESLYGLRMTENSLTHIRRGVFDRMSSLQILNLSQNKLKSIEAGSLQRNSQLQAIRLDGNQLKSIAGLFTELPNLVWLNISGNRLEKFDYSHIPIGLQWLDVRANRITQLGNYFEIESELSLSTFDASYNLLTEITASSIPNSVEVLYLNDNQISKIQPYTFFKKPNLTRVDLVRNRLTTLEPNALRLSPIAEDREIPEFYIGHNAYECDCNLDWLQKVNRESRTQPQLMDLDQIHCRLAYARGSSHVSLIEAKSDDFLCKYASHCFALCHCCDFQACDCKMECPDRCSCYHDQSWTSNVVDCSRASYEQTLPSHIPMDSTQLYLDGNNFRELQSHAFIGRKRLKVLHLNHSRIEVLHNRTFYGLLELEVLQLQSNQLKALNGNEFQGLDNLQELYLQHNAIATIDTLTFTHLYHLKILRLDHNAITSFAVWNFLPSYLNELRLASNPWTCSCEFIDKLRDYINRHEYVVDKLKMKCDVISGNSTQQMVIYPGSGEPASLPVVQCSQTLPLGLDNNFNYAEQAGGENASNATSTKMILNQPPKLDYIPILVAILTAFIFVMICISLVFIFRQEMRVWCHSRFGVRLFYNAQKDVDKNEREKLFDAFVSYSSKDELFVNEELAPMLEMGEHRYKLCLHQRDFPVGGYLPETIVQAIDSSRRTIMVVSENFIKSEWCRFEFKSAHQSVLRDRRRRLIVIVLGEVPQKELDPDLRLYLKTNTYLQWGDKLFWQKLRFALPDVSSSQRSNVAGQSCHVPINHASYHHHHHVHQQAMPLPHSVHHHQQQFMLPPPPQQPGSFRRQPSLHQQQQQQQQIRGNNNTTQQQQQQQAALLMGGGSVGGPAPQMIPLAGGIQQQSLPLPPNQQPTPASRNLHM |
| 5096 | sp|Q14258|TRI25\_HUMAN | MAELCPLAEELSCSICLEPFKEPVTTPCGHNFCGSCLNETWAVQGSPYLCPQCRAVYQARPQLHKNTVLCNVVEQFLQADLAREPPADVWTPPARASAPSPNAQVACDHCLKEAAVKTCLVCMASFCQEHLQPHFDSPAFQDHPLQPPVRDLLRRKCSQHNRLREFFCPEHSECICHICLVEHKTCSPASLSQASADLEATLRHKLTVMYSQINGASRALDDVRNRQQDVRMTANRKVEQLQQEYTEMKALLDASETTSTRKIKEEEKRVNSKFDTIYQILLKKKSEIQTLKEEIEQSLTKRDEFEFLEKASKLRGISTKPVYIPEVELNHKLIKGIHQSTIDLKNELKQCIGRLQEPTPSSGDPGEHDPASTHKSTRPVKKVSKEEKKSKKPPPVPALPSKLPTFGAPEQLVDLKQAGLEAAAKATSSHPNSTSLKAKVLETFLAKSRPELLEYYIKVILDYNTAHNKVALSECYTVASVAEMPQNYRPHPQRFTYCSQVLGLHCYKKGIHYWEVELQKNNFCGVGICYGSMNRQGPESRLGRNSASWCVEWFNTKISAWHNNVEKTLPSTKATRVGVLLNCDHGFVIFFAVADKVHLMYKFRVDFTEALYPAFWVFSAGATLSICSPK |
| 5097 | sp|Q9ULW0|TPX2\_HUMAN | MSQVKSSYSYDAPSDFINFSSLDDEGDTQNIDSWFEEKANLENKLLGKNGTGGLFQGKTPLRKANLQQAIVTPLKPVDNTYYKEAEKENLVEQSIPSNACSSLEVEAAISRKTPAQPQRRSLRLSAQKDLEQKEKHHVKMKAKRCATPVIIDEILPSKKMKVSNNKKKPEEEGSAHQDTAEKNASSPEKAKGRHTVPCMPPAKQKFLKSTEEQELEKSMKMQQEVVEMRKKNEEFKKLALAGIGQPVKKSVSQVTKSVDFHFRTDERIKQHPKNQEEYKEVNFTSELRKHPSSPARVTKGCTIVKPFNLSQGKKRTFDETVSTYVPLAQQVEDFHKRTPNRYHLRSKKDDINLLPSKSSVTKICRDPQTPVLQTKHRARAVTCKSTAELEAEELEKLQQYKFKARELDPRILEGGPILPKKPPVKPPTEPIGFDLEIEKRIQERESKKKTEDEHFEFHSRPCPTKILEDVVGVPEKKVLPITVPKSPAFALKNRIRMPTKEDEEEDEPVVIKAQPVPHYGVPFKPQIPEARTVEICPFSFDSRDKERQLQKEKKIKELQKGEVPKFKALPLPHFDTINLPEKKVKNVTQIEPFCLETDRRGALKAQTWKHQLEEELRQQKEAACFKARPNTVISQEPFVPKKEKKSVAEGLSGSLVQEPFQLATEKRAKERQELEKRMAEVEAQKAQQLEEARLQEEEQKKEELARLRRELVHKANPIRKYQGLEIKSSDQPLTVPVSPKFSTRFHC |
| 5098 | sp|P01850|TRBC1\_HUMAN | DLNKVFPPEVAVFEPSEAEISHTQKATLVCLATGFFPDHVELSWWVNGKEVHSGVSTDPQPLKEQPALNDSRYCLSSRLRVSATFWQNPRNHFRCQVQFYGLSENDEWTQDRAKPVTQIVSAEAWGRADCGFTSVSYQQGVLSATILYEILLGKATLYAVLVSALVLMAMVKRKDF |
| 5099 | sp|Q9R233|TPSN\_MOUSE | MKPLLLLVAVALGLATVVSVVSAGPEAIECWFVEDAGGGGLSKKPATLLLRHGPRGPPPRPDLDPKLYFKVDDPAGMLLAAFRRYPAGASAPHCEMSRFIPFPASAKWARSLSPEQNCPRALDGDWLLVSVSSTLFSLSSLLRPQPEPLREPVVITMATVVLTVLTHNPAPRVQLGKDAVLDLRFAYAPSALEGSPSLDAGPPPFGLEWRRQHRGKGHLLLAATPGLAGRMPPAQEKATAFAAWDDDEPWGPWTGNGTFWLPAVKPSQEGVYLATVHLPYLQGQVSLELTVHKAPRVSLTPAPVVWAAPGEAPPELLCLASHFFPAEGLEVKWELRGGPGGSSRKVEGKTWLSTIRHHSDGSVSQSGHLQLPPVTAKQHGVHYVCRVYHSSLPASGRSADVTLEVAGFSGPSIEDGIGLFLSAFLLLGLLKVLGWLAAYWTIPEVSKEKATAASLTIPRNSKKSQ |
| 5100 | sp|Q15650|TRIP4\_HUMAN | MAVAGAVSGEPLVHWCTQQLRKTFGLDVSEEIIQYVLSIESAEEIREYVTDLLQGNEGKKGQFIEELITKWQKNDQELISDPLQQCFKKDEILDGQKSGDHLKRGRKKGRNRQEVPAFTEPDTTAEVKTPFDLAKAQENSNSVKKKTKFVNLYTREGQDRLAVLLPGRHPCDCLGQKHKLINNCLICGRIVCEQEGSGPCLFCGTLVCTHEEQDILQRDSNKSQKLLKKLMSGVENSGKVDISTKDLLPHQELRIKSGLEKAIKHKDKLLEFDRTSIRRTQVIDDESDYFASDSNQWLSKLERETLQKREEELRELRHASRLSKKVTIDFAGRKILEEENSLAEYHSRLDETIQAIANGTLNQPLTKLDRSSEEPLGVLVNPNMYQSPPQWVDHTGAASQKKAFRSSGFGLEFNSFQHQLRIQDQEFQEGFDGGWCLSVHQPWASLLVRGIKRVEGRSWYTPHRGRLWIAATAKKPSPQEVSELQATYRLLRGKDVEFPNDYPSGCLLGCVDLIDCLSQKQFKEQFPDISQESDSPFVFICKNPQEMVVKFPIKGNPKIWKLDSKIHQGAKKGLMKQNKAV |
| 5101 | sp|P84507|TX1\_CERMR | DCLGWFKSCDPKNDKCCKNYTCSRRDRWCKYDL |
| 5102 | sp|Q6VAB4|U76G1\_STERE | MENKTETTVRRRRRIILFPVPFQGHINPILQLANVLYSKGFSITIFHTNFNKPKTSNYPHFTFRFILDNDPQDERISNLPTHGPLAGMRIPIINEHGADELRRELELLMLASEEDEEVSCLITDALWYFAQSVADSLNLRRLVLMTSSLFNFHAHVSLPQFDELGYLDPDDKTRLEEQASGFPMLKVKDIKSAYSNWQILKEILGKMIKQTKASSGVIWNSFKELEESELETVIREIPAPSFLIPLPKHLTASSSSLLDHDRTVFQWLDQQPPSSVLYVSFGSTSEVDEKDFLEIARGLVDSKQSFLWVVRPGFVKGSTWVEPLPDGFLGERGRIVKWVPQQEVLAHGAIGAFWTHSGWNSTLESVCEGVPMIFSDFGLDQPLNARYMSDVLKVGVYLENGWERGEIANAIRRVMVDEEGEYIRQNARVLKQKADVSLMKGGSSYESLESLVSYISSL |
| 5103 | sp|Q9Z2R6|U119A\_MOUSE | MKVKKGGGGTGSGAEPVPGASNRSAEPTREPGAEAESGSESEPEPGPGPRLGPLQGKQPIGPEDVLGLQRITGDYLCSPEENIYKIDFVRFKIRDMDSGTVLFEIKKPPVSERLPINRRDLDPNAGRFVRYQFTPAFLRLRQVGATVEFTVGDKPVNNFRMIERHYFRNQLLKSFDFHFGFCIPSSKNTCEHIYDFPPLSEELISEMIRHPYETQSDSFYFVDDRLVMHNKADYSYSGTP |
| 5104 | sp|Q96PN8|TSSK3\_HUMAN | MEDFLLSNGYQLGKTIGEGTYSKVKEAFSKKHQRKVAIKVIDKMGGPEEFIQRFLPRELQIVRTLDHKNIIQVYEMLESADGKICLVMELAEGGDVFDCVLNGGPLPESRAKALFRQMVEAIRYCHGCGVAHRDLKCENALLQGFNLKLTDFGFAKVLPKSHRELSQTFCGSTAYAAPEVLQGIPHDSKKGDVWSMGVVLYVMLCASLPFDDTDIPKMLWQQQKGVSFPTHLSISADCQDLLKRLLEPDMILRPSIEEVSWHPWLAST |
| 5105 | sp|P26369|U2AF2\_MOUSE | MSDFDEFERQLNENKQERDKENRHRKRSHSRSRSRDRKRRSRSRDRRNRDQRSASRDRRRRSKPLTRGAKEEHGGLIRSPRHEKKKKVRKYWDVPPPGFEHITPMQYKAMQAAGQIPATALLPTMTPDGLAVTPTPVPVVGSQMTRQARRLYVGNIPFGITEEAMMDFFNAQMRLGGLTQAPGNPVLAVQINQDKNFAFLEFRSVDETTQAMAFDGIIFQGQSLKIRRPHDYQPLPGMSENPSVYVPGVVSTVVPDSAHKLFIGGLPNYLNDDQVKELLTSFGPLKAFNLVKDSATGLSKGYAFCEYVDINVTDQAIAGLNGMQLGDKKLLVQRASVGAKNATLVSLPSTINQTPVTLQVPGLMSSQVQMGGHPTEVLCLMNMVLPEELLDDEEYEEIVEDVRDECSKYGLVKSIEIPRPVDGVEVPGCGKIFVEFTSVFDCQKAMQGLTGRKFANRVVVTKYCDPDSYHRRDFW |
| 5106 | sp|P62328|TYB4\_HUMAN | MSDKPDMAEIEKFDKSKLKKTETQEKNPLPSKETIEQEKQAGES |
| 5107 | sp|Q80UG8|TTLL4\_MOUSE | MASAGTEHYSIGLRRGNSFKQRHPSGTVSASPSEKPSEVKVWSQAHQQVKPIWKLEKKHVGTLSAGLGTSFLGVPSQPAYFLCPSTLCSSGTTAVIAGHSNPCYLQSLPNLFSNTLLYRRTNVRQKPYQQLESFCLRSSPSEKRSFSLPQKGLPVSVTANKATSSTVFPMAQPMATSPTDPYLSLAAAGENPSRKSLASAISGKIASPLSYKPMLNNNSFMRPNSTKVPLSQATDGLKPVSSPKIQPVSWHHSGGTGDCVPQPGDHKVPQNIATVLDDVTAPITPSIPSTLNISTASVTSSQCSQSNFRMEAHPCGLDENPDSQSATKEVHFTEAVRKLAEKGLEKMPRQGYQFEQACFVNPSFQWGLLNRSRRWKPLMGQRFPQEDIGLDSAILPGTSDTLGLDSTVFCTKRISIHLLASHVHGLNPSPACGSAVDPQVLGEDRAPVPPSSLQPLGVAEVATRLSSVHLDQPGKEPEEAKDLNSCTKGGGSATDLQPNQVEPEDTEDELGDGLEDSCSHDENEEEEGDSECSSLSVVSPSESVALISRNCVDLMSKSLPNHEKVVRPALIYSLFPNVTPTIYFGTRDERVEKLPWEQRRLLRWKMSTVTPNIVKQTIGRSHFKISKRNDDWLGCWGHHMKSPGFRSIREHQKLNHFPGSFQIGRKDRLWRNLSRMQSRFGKKEFSFFPQSFILPQDSKLLRKAWESSSRQKWIVKPPASARGIGIQVIHKWSQLPKRRPLLVQRYLHKPYLISGSKFDLRIYVYVTSYDPLRIYLFSDGLVRFASCKYSPSMKSLSNKFMHLTNYSVNKKNTEYQANADETACQGHKWALKALWNYLSQKGINSDAIWEKIKDVVVKTIISSEPYVTNLLKLYVRRPYSCHELFGFDIMLDENLKPWVLEVNISPSLHSNSPLDISIKGQMIRDLLNLAGFVLPNMEDIISSSSSPSSSSGSSTSLPSSPRDKCQMTPEHFTAQKMKKAYYLTQKIPDQDFYASVLDVLTPDDVRVLVEMEDEFSRRGQFERIFPSRISSRYLRFFEQPRYFNILTTQWEQKYHGNKLKGVDLLRNWCYKGFHTGIVSDSAPLWSLPTSLMTTSKGDGTPNSASKSRKKSASEGTTLSSEDRSTPKSKKSQAGLSPISRKTLSSRSNENTSKQSKRSTPGLPVLKYSGQSSRLSAASASQSVTDSRLTAVSS |
| 5108 | sp|Q57261|TRUD\_ECOLI | MIEFDNLTYLHGKPQGTGLLKANPEDFVVVEDLGFEPDGEGEHILVRILKNGCNTRFVADALAKFLKIHAREVSFAGQKDKHAVTEQWLCARVPGKEMPDLSAFQLEGCQVLEYARHKRKLRLGALKGNAFTLVLREVSNRDDVEQRLIDICVKGVPNYFGAQRFGIGGSNLQGAQRWAQTNTPVRDRNKRSFWLSAARSALFNQIVAERLKKADVNQVVDGDALQLAGRGSWFVATTEELAELQRRVNDKELMITAALPGSGEWGTQREALAFEQAAVAAETELQALLVREKVEAARRAMLLYPQQLSWNWWDDVTVEIRFWLPAGSFATSVVRELINTTGDYAHIAE |
| 5109 | sp|P0CG51|UBB\_RAT | MQIFVKTLTGKTITLEVEPSDTIENVKAKIQDKEGIPPDQQRLIFAGKQLEDGRTLSDYNIQKESTLHLVLRLRGGMQIFVKTLTGKTITLEVEPSDTIENVKAKIQDKEGIPPDQQRLIFAGKQLEDGRTLSDYNIQKESTLHLVLRLRGGMQIFVKTLTGKTITLEVEPSDTIENVKAKIQDKEGIPPDQQRLIFAGKQLEDGRTLSDYNIQKESTLHLVLRLRGGMQIFVKTLTGKTITLEVEPSDTIENVKAKIQDKEGIPPDQQRLIFAGKQLEDGRTLSDYNIQKESTLHLVLRLRGGY |
| 5110 | sp|Q0D840|TRXH1\_ORYSJ | MAAEEGVVIACHNKDEFDAQMTKAKEAGKVVIIDFTASWCGPCRFIAPVFAEYAKKFPGAVFLKVDVDELKEVAEKYNVEAMPTFLFIKDGAEADKVVGARKDDLQNTIVKHVGATAASASA |
| 5111 | sp|Q9BSL1|UBAC1\_HUMAN | MFVQEEKIFAGKVLRLHICASDGAEWLEEATEDTSVEKLKERCLKHCAHGSLEDPKSITHHKLIHAASERVLSDARTILEENIQDQDVLLLIKKRAPSPLPKMADVSAEEKKKQDQKAPDKEAILRATANLPSYNMDRAAVQTNMRDFQTELRKILVSLIEVAQKLLALNPDAVELFKKANAMLDEDEDERVDEAALRQLTEMGFPENRATKALQLNHMSVPQAMEWLIEHAEDPTIDTPLPGQAPPEAEGATAAASEAAAGASATDEEARDELTEIFKKIRRKREFRADARAVISLMEMGFDEKEVIDALRVNNNQQNAACEWLLGDRKPSPEELDKGIDPDSPLFQAILDNPVVQLGLTNPKTLLAFEDMLENPLNSTQWMNDPETGPVMLQISRIFQTLNRT |
| 5112 | sp|Q72J02|TTUC\_THET2 | MRWTKEELDRYHRQMILPQVGPEGQERLKRASVVVVGAGGLGVPVLQYLVAAGVGRVGVVEMDRVEVSNLHRQVLYTTEDVGEPKALVAQKRLQALNPLVRVEAYPVRLTSENALEILRPYDLVVDASDNFPTRYLVNDAAVLLGKPLVFGAIYQFDGQVAVFHHPTLHGEMGPCYRCLFPKPPPPGAVPSCAEAGVFGVLPAVVGSLMAAEALKVLLGIGKPLAGHLLLYDALEASFRKLTVRRNPRCPVCGDEPTQRELVDYEAFCGLR |
| 5113 | sp|Q8N841|TTLL6\_HUMAN | MPQCPTLESQEGENSEEKGDSSKEDPKETVALAFVRENPGAQNGLQNAQQQGKKKRKKKRLVINLSSCRYESVRRAAQQYGFREGGEDDDWTLYWTDYSVSLERVMEMKSYQKINHFPGMSEICRKDLLARNMSRMLKMFPKDFRFFPRTWCLPADWGDLQTYSRSRKNKTYICKPDSGCQGKGIFITRTVKEIKPGEDMICQLYISKPFIIDGFKFDLRIYVLVTSCDPLRIFVYNEGLARFATTSYSRPCTDNLDDICMHLTNYSINKHSSNFSRDAHSGSKRKLSTFSAYLEDHSYNVEQIWRDIEDVIIKTLISAHPIIRHNYHTCFPNHTLNSACFEILGFDILLDHKLKPWLLEVNHSPSFSTDSRLDKEVKDGLLYDTLVLINLESCDKKKVLEEERQRGQFLQQCCSREMRIEEAKGFRAVQLKKTETYEKENCGGFRLIYPSLNSEKYEKFFQDNNSLFQNTVASRAREEYARQLIQELRLKREKKPFQMKKKVEMQGESAGEQVRKKGMRGWQQKQQQKDKAATQASKQYIQPLTLVSYTPDLLLSVRGERKNETDSSLNQEAPTEEASSVFPKLTSAKPFSSLPDLRNINLSSSKLEPSKPNFSIKEAKSASAVNVFTGTVHLTSVETTPESTTQLSISPKSPPTLAVTASSEYSGPETDRVVSFKCKKQQTPPHLTQKKMLKSFLPTKSKSFWESPNTNWTLLKSDMNKPHLISELLTKLQLSGKLSFFPAHYNPKLGMNNLSQNPSLPGECHSRSDSSGEKRQLDVSSLLLQSPQSYNVTLRDLLVIATPAQLDPRPCRSHASAMRDPCMQDQEAYSHCLISGQKGCERS |
| 5114 | sp|Q9C664|TTM2\_ARATH | MGQDSNGIEFHQKRHGLLKDQVQLVKRRDSIRYEIVSIQDRLSFEKGFFAVIRACQLLSQKNDGIILVGVAGPSGAGKTVFTEKILNFLPSVAVISMDNYNDSSRIVDGNFDDPRLTDYDTLLKNLEDLKEGKQVEVPIYDFKSSSRVGYRTLDVPPSRIVIIEGIYALSEKLRPLLDLRVSVTGGVHFDLVKRVLRDIQRAGQQPEEIIHQISETVYPMYKAFIEPDLQTAQIKIINKFNPFTGFQSPTYILKSRKEVSVDQIKAVLSDGHTETKEETYDIYLLPPGEDPESCQSYLRMRNKDGKYSLMFEEWVTDTPFVISPRITFEVSVRLLGGLMALGYTIATILKRNSHVFATDKVFVKIDWLEQLNRHYMQVQGKDRQLVQSTAEQLGLEGSFIPRTYIEQIQLEKLINEVMALPDDLKNKLSLDEDLVSSSSPKEALLRASADRVAMRNKNLKRGMSHSYSTQRDKNLSKLAGYSSSDRRYEERNHDSPANEGFMTLLSEQISSLNERMDEFTSRIEELNSKLSCNKNSPTQQSLSIQTEVCNGSAPTSYFISGLDNGCLTNSIMPHSSSSSQLAKDSPLMEEISTISRGQRQVMHQLDNLCNLMRESSAERSRLARTGSSNSGNRGRSSKSSFLSNVESNKLPLVLTVAICSIGIIVIKSYINKRQ |
| 5115 | sp|Q15819|UB2V2\_HUMAN | MAVSTGVKVPRNFRLLEELEEGQKGVGDGTVSWGLEDDEDMTLTRWTGMIIGPPRTNYENRIYSLKVECGPKYPEAPPSVRFVTKINMNGINNSSGMVDARSIPVLAKWQNSYSIKVVLQELRRLMMSKENMKLPQPPEGQTYNN |
| 5116 | sp|Q16222|UAP1\_HUMAN | MNINDLKLTLSKAGQEHLLRFWNELEEAQQVELYAELQAMNFEELNFFFQKAIEGFNQSSHQKNVDARMEPVPREVLGSATRDQDQLQAWESEGLFQISQNKVAVLLLAGGQGTRLGVAYPKGMYDVGLPSRKTLFQIQAERILKLQQVAEKYYGNKCIIPWYIMTSGRTMESTKEFFTKHKYFGLKKENVIFFQQGMLPAMSFDGKIILEEKNKVSMAPDGNGGLYRALAAQNIVEDMEQRGIWSIHVYCVDNILVKVADPRFIGFCIQKGADCGAKVVEKTNPTEPVGVVCRVDGVYQVVEYSEISLATAQKRSSDGRLLFNAGNIANHFFTVPFLRDVVNVYEPQLQHHVAQKKIPYVDTQGQLIKPDKPNGIKMEKFVFDIFQFAKKFVVYEVLREDEFSPLKNADSQNGKDNPTTARHALMSLHHCWVLNAGGHFIDENGSRLPAIPRSATNGKSETITADVNHNLKDANDVPIQCEISPLISYAGEGLESYVADKEFHAPLIIDENGVHELVKNGI |
| 5117 | sp|Q99394|TRS33\_YEAST | MSSTHSNNVGHPQSSPQGPLTEQQRAQQQYQIFENSLPKVSQSVYQMLLNEMVPLAMGIERQISGDVISSDSNVTSENGNINNMIKRLKIEEHHTVDIIRSHNLIHELYKADEEEKEKVLARLRNIGFQIGLKLSELLIFSNNPNLKFKEMDLLLIMKFICRDVWKQIFGKQIDNLKTNHRGTFYLLDYDYRPIQSFSLEEDAKNEELKMIEPFLEIPVGIIRGVLSSLGYSSEEVICLASFIDRPTDRPKTAFPKGVSFHVQVTMPQ |
| 5118 | sp|Q697L1|TRPV1\_CANLF | MKNWGSSDSGGSEDPPQEDSCLDPLDGDPNSRPVPAKPHIFPTAKSRSRLFGKCDSEEASMDCSYEEGQLASCPAITVSPVVMIPKHEDGPTCARQPSQDSVTAGSEKSLKLYDRRKIFEAVAQNNCEELQSLLLFLQKSKKHLMDSEFKDPETGKTCLLKAMLNLHDGQNDTIPLLLEIARQTDSLKELVNASYTDSYYKGQTALHIAIERRNMALVTLLVENGADVQAAANGDFFKKTKGRPGFYFGELPLSLAACTNQLGIVKFLLQNSWQPADISARDSVGNTVLHALVEVADNTADNTKFVTSMYNEILILGAKLHPTLKLEGLTNKKGLTPLALAARSGKIGVLAYILQREIQEPECRHLSRKFTEWAYGPVHSSLYDLSCIDTCEKNSVLEVIAYSSSETPNRHDMLLVEPLNRLLQDKWDRFVKRIFYFNFFIYCLYMIIFTTAAYYRPVDGLPPYKLKHTVGDYFRVTGEILSVLGGVYFFFRGIQYFLQRRPSLKTLFVDSYSEMLFFVQSLFMLGTVVLYFCHHKEYVASMVFSLAMGWTNMLYYTRGFQQMGIYAVMIEKMILRDLCRFMFVYLVFLFGFSTAVVTLIEDGKNNSVPTESTLHRWRGPGCRPPDSSYNSLYSTCLELFKFTIGMGDLEFTENYDFKAVFIILLLAYVILTYILLLNMLIALMGETVNKIAQESKNIWKLQRAITILDTEKSFLKCMRKAFRSGKLLQVGYTPDGKDDYRWCFRVDEVNWTTWNTNVGIINEDPGNCEGIKRTLSFSLRSGRVSGRNWKNFSLVPLLRDASTRERHPAQPEEVHLRHFAGSLKPEDAEIFKDPVGLGEK |
| 5119 | sp|Q9C5I1|USP\_ARATH | MASTVDSNFFSSVPALHSNLGLLSPDQIELAKILLENGQSHLFQQWPELGVDDKEKLAFFDQIARLNSSYPGGLAAYIKTAKELLADSKVGKNPYDGFSPSVPSGENLTFGTDNFIEMEKRGVVEARNAAFVLVAGGLGERLGYNGIKVALPRETTTGTCFLQHYIESILALQEASNKIDSDGSERDIPFIIMTSDDTHSRTLDLLELNSYFGMKPTQVHLLKQEKVACLDDNDARLALDPHNKYSIQTKPHGHGDVHSLLYSSGLLHKWLEAGLKWVLFFQDTNGLLFNAIPASLGVSATKQYHVNSLAVPRKAKEAIGGISKLTHVDGRSMVINVEYNQLDPLLRASGFPDGDVNCETGFSPFPGNINQLILELGPYKDELQKTGGAIKEFVNPKYKDSTKTAFKSSTRLECMMQDYPKTLPPTARVGFTVMDIWLAYAPVKNNPEDAAKVPKGNPYHSATSGEMAIYRANSLILQKAGVKVEEPVKQVLNGQEVEVWSRITWKPKWGMIFSDIKKKVSGNCEVSQRSTMAIKGRNVFIKDLSLDGALIVDSIDDAEVKLGGLIKNNGWTMESVDYKDTSVPEEIRIRGFRFNKVEQLEKKLTQPGKFSVED |
| 5120 | sp|P83949|UBX\_DROME | MNSYFEQASGFYGHPHQATGMAMGSGGHHDQTASAAAAAYRGFPLSLGMSPYANHHLQRTTQDSPYDASITAACNKIYGDGAGAYKQDCLNIKADAVNGYKDIWNTGGSNGGGGGGGGGGGGGAGGTGGAGNANGGNAANANGQNNPAGGMPVRPSACTPDSRVGGYLDTSGGSPVSHRGGSAGGNVSVSGGNGNAGGVQSGVGVAGAGTAWNANCTISGAAAQTAAASSLHQASNHTFYPWMAIAGECPEDPTKSKIRSDLTQYGGISTDMGKRYSESLAGSLLPDWLGTNGLRRRGRQTYTRYQTLELEKEFHTNHYLTRRRRIEMAHALCLTERQIKIWFQNRRMKLKKEIQAIKELNEQEKQAQAQKAAAAAAAAAAVQGGHLDQ |
| 5121 | sp|Q86WB7|UN93A\_HUMAN | MDRSLRNVLVVSFGFLLLFTAYGGLQSLQSSLYSEEGLGVTALSTLYGGMLLSSMFLPPLLIERLGCKGTIILSMCGYVAFSVGNFFASWYTLIPTSILLGLGAAPLWSAQCTYLTITGNTHAEKAGKRGKDMVNQYFGIFFLIFQSSGVWGNLISSLVFGQTPSQETLPEEQLTSCGASDCLMATTTTNSTQRPSQQLVYTLLGIYTGSGVLAVLMIAAFLQPIRDVQRESEGEKKSVPFWSTLLSTFKLYRDKRLCLLILLPLYSGLQQGFLSSEYTRSYVTCTLGIQFVGYVMICFSATDALCSVLYGKVSQYTGRAVLYVLGAVTHVSCMIALLLWRPRADHLAVFFVFSGLWGVADAVWQTQNNALYGVLFEKSKEAAFANYRLWEALGFVIAFGYSMFLCVHVKLYILLGVLSLTMVAYGLVECVESKNPIRPHAPGQVNQAEDEEIQTKM |
| 5122 | sp|P35504|UD15\_HUMAN | MATGLQVPLPQLATGLLLLLSVQPWAESGKVLVVPTDGSHWLSMREALRDLHARGHQVVVLTLEVNMYIKEENFFTLTTYAISWTQDEFDRLLLGHTQSFFETEHLLMKFSRRMAIMNNMSLIIHRSCVELLHNEALIRHLHATSFDVVLTDPFHLCAAVLAKYLSIPAVFFLRNIPCDLDFKGTQCPNPSSYIPRLLTTNSDHMTFLQRVKNMLYPLALSYLCHAVSAPYASLASELFQREVSVVDLVSHASVWLFRGDFVMDYPRPIMPNMVFIGGINCANGKPLSQEFEAYINASGEHGIVVFSLGSMVSEIPEKKAMAIADALGKIPQTVLWRYTGTRPSNLANNTILVKWLPQNDLLGHPMTRAFITHAGSHGVYESICNGVPMVMMPLFGDQMDNAKRMETKGAGVTLNVLEMTSEDLENALKAVINDKSYKENIMRLSSLHKDRPVEPLDLAVFWVEFVMRHKGAPHLRPAAHDLTWYQYHSLDVIGFLLAVVLTVAFITFKCCAYGYRKCLGKKGRVKKAHKSKTH |
| 5123 | sp|P50103|UCHL1\_MONDO | MQLKPMEINPEMLNKVLTRLGVGGDWKFVDVLGLEEDVLGTVPAPACALLLLFPLTAQHENFRKKQIEELKGQEVSPKVYFMKQTVGNSCGTIGLIHAVANNQDKLNFDDGSVLKQFISETAKLSPEDRAKCFEKNEAIQAAHDAVAQEGQCRVDDEVNFHFILFNNVDGHLYELDGRMPFPINHGSNSDESVLKGAAEICRQFTEREEGEVRFSAVALCKCA |
| 5124 | sp|Q23023|UNC51\_CAEEL | MEQFDGFEYSKRDLLGHGAFAIVYRGRYVDRTDVPVAIKAIAKKNISKSKNLLTKEIKILKELSSLKHENLVGLLKCTETPTHVYLVMEFCNGGDLADYLQQKTTLNEDTIQHFVVQIAHALEAINKKGIVHRDLKPQNILLCNNSRTQNPHFTDIVIKLADFGFARFLNDGVMAATLCGSPMYMAPEVIMSMQYDAKADLWSIGTILFQCLTGKAPFVAQTPPQLKAYYEKTRELRPNIPEWCSPNLRDLLLRLLKRNAKDRISFEDFFNHPFLTSPLLPSPSKRILESARSPLLANRRIITPQSSLPVPKRAGSTKLDSPTPVRRIGESPRVQRRVITPGMPSPVPGAPMQESTDFTFLPPRQESSPVKQVQVHTNVSPSLTTCKPVPVPSQRLTYQKMEERLAAARKTAVPSSSSPTGSAVSAQHQHQHQQQQEPASSPVVQRIERPDQLPRRTTLQDPNAHDIERMTMPNPTFVVCGSSTKPSPNNANRVRRSTITSPADTQDMVAADQMLSNLDPTTTTTTIPKSATTANIQGIPRGARDRSVTSPPQPTIHENEPLDNAKYQQTDVNNSPTAPTEPFIIKNQTTCSTSSTSSSVVEEEEAMSLPFASGSHLAAGFKKTPAEVPMDHGALPPALDQEIVLGEEHKQILAKLRFVAELVDTLIHVAEQKDNPLASAMASRRQLLTTGTSTTNTSSPYRRAEQLVVYVRALHMLSSALLLAQTNVANRVLHPSVAVQQVLNQLNDKYHQCLVRSQELASLGLPGQDPAMAVISAERIMYRHAIELCQAAALDELFGNPQLCSQRYQTAYMMLHTLAEQVNCDQDKTVLTRYKVAVEKRLRILERQGFVAAVNT |
| 5125 | sp|W5PSH7|UCP1\_SHEEP | MVGHAATDVPPTMAVKIFSAGVAACVADIITFPLDTAKVRLQIQGECLTSSAFRYKGVLGTIITLAKTEGPVKLYSGLPAGLQRQISFASLRIGLYDTVQEFFTTGKEASLGSKISAGLTTGGVAVFIGQPTEVVKVRLQAQSHLHGPKPRYTGTYNAYRIIATTEGLTGLWKGTTPNLTRNVIINCTELVTYDLMKEALVKNKLLADDVPCHFVSAVVAGFCTTVLSSPVDVVKTRFVNSSPGQYTSVPNCAMMMLTREGPSAFFKGFVPSFLRLGSWNIIMFVCFEQLKRELMKSRQAMDCAT |
| 5126 | sp|O08759|UBE3A\_MOUSE | MATACKRSPGESQSEDIEASRMKRAAAKHLIERYYHQLTEGCGNEACTNEFCASCPTFLRMDNNAAAIKALELYKINAKLCDPHPSKKGASSAYLENSKGASNNSEIKMNKKEGKDFKDVIYLTEEKVYEIYEFCRESEDYSPLIRVIGRIFSSAEALVLSFRKVKQHTKEELKSLQEKDEDKDEDEKEKAACSAAAMEEDSEASSSRMGDSSQGDNNVQKLGPDDVTVDIDAIRRVYSSLLANEKLETAFLNALVYLSPNVECDLTYHNVYTRDPNYLNLFIIVMENSNLHSPEYLEMALPLFCKAMCKLPLEAQGKLIRLWSKYSADQIRRMMETFQQLITYKVISNEFNSRNLVNDDDAIVAASKCLKMVYYANVVGGDVDTNHNEEDDEEPIPESSELTLQELLGDERRNKKGPRVDPLETELGVKTLDCRKPLISFEEFINEPLNDVLEMDKDYTFFKVETENKFSFMTCPFILNAVTKNLGLYYDNRIRMYSERRITVLYSLVQGQQLNPYLRLKVRRDHIIDDALVRLEMIAMENPADLKKQLYVEFEGEQGVDEGGVSKEFFQLVVEEIFNPDIGMFTYDEATKLFWFNPSSFETEGQFTLIGIVLGLAIYNNCILDVHFPMVVYRKLMGKKGTFRDLGDSHPVLYQSLKDLLEYEGSVEDDMMITFQISQTDLFGNPMMYDLKENGDKIPITNENRKEFVNLYSDYILNKSVEKQFKAFRRGFHMVTNESPLKYLFRPEEIELLICGSRNLDFQALEETTEYDGGYTRESVVIREFWEIVHSFTDEQKRLFLQFTTGTDRAPVGGLGKLKMIIAKNGPDTERLPTSHTCFNVLLLPEYSSKEKLKERLLKAITYAKGFGML |
| 5127 | sp|P29506|UNC4\_CAEEL | MIGALHACVDAEPKIINDIWADFWKSQINSVLLNPSDGSETYLASDNGKSTSSREQSTSPDDDNLLMNEDDGIALEDDNDTGESAAKRRRTRTNFSGWQLEELESAFEASHYPDVFMREALAMRLDLLESRVQVWFQNRRAKWRKREQNRNGSSEIKKDDGEQMETKALPTFPFSIDSILAVSRVPRGRRPNAKYPRVQACKNLSPFMIPLFPITQPGGNVIREKSPPLPTQQSQIVATNALTTVAELLKSV |
| 5128 | sp|P30628|VPP1\_CAEEL | MGDYVTPGEEPPQPGIYRSEQMCLAQLYLQSDASYQCVAELGELGLVQFRDLNPDVSSFQRKYVNEVRRCDEMERKLRYLEREIKKDQIPMLDTGENPDAPLPREMIDLEATFEKLENELREVNKNEETLKKNFSELTELKHILRKTQTFFEEVDHDRWRILEGGSGRRGRSTEREETRPLIDIGDMDDDSAARMSAQAAMLRLGFVAGVIQRERLPAFERLLWRACRGNVFLRTSEIDDVLNDTVTGDPVNKCVFIIFFQGDHLKTKVKKICEGFRATLYPCPDTPQERREMSIGVMTRIEDLKTVLGQTQDHRHRVLVAASKNVRMWLTKVRKIKSIYHTLNLFNIDVTQKCLIAEVWCPIAELDRIKMALKRGTDESGSQVPSILNRMETNEAPPTYNKTNKFTKGFQNIVDAYGIATYREINPAPYTMISFPFLFAVMFGDMGHGAIMLLAALFFILKEKQLEAARIKDEIFQTFFGGRYVIFLMGAFSIYTGFMYNDVFSKSINTFGSSWQNTIPESVIDYYLDDEKRSESQLILPPETAFDGNPYPIGVDPVWNLAEGNKLSFLNSMKMKMSVLFGIAQMTFGVLLSYQNFIYFKSDLDIKYMFIPQMIFLSSIFIYLCIQILSKWLFFGAVGGTVLGYKYPGSNCAPSLLIGLINMFMMKSRNAGFVDDSGETYPQCYLSTWYPGQATIEIILVVLALVQVPIMLFAKPYFLYRRDKQQSRYSTLTAESNQHQSVRADINQDDAEVVHAPEQTPKPSGHGHGHGDGPLEMGDVMVYQAIHTIEFVLGCVSHTASYLRLWALSLAHAQLSDVLWTMVFRNAFVLDGYTGAIATYILFFIFGSLSVFILVLMEGLSAFLHALRLHWVEFQSKFYGGLGYEFAPFSFEKILAEEREAEENL |
| 5129 | sp|P34110|VPS35\_YEAST | MAYADSPENAIAVIKQRTALMNRCLSQHKLMESLQHTSIMLTELRNPNLSPKKYYELYVIIFDSLTNLSTYLIENHPQNHHLADLYELVQYTGNVVPRLYLMITVGTSYLTFNEAPKKEILKDMIEMCRGVQNPIRGLFLRYYLSQRTKELLPEDDPSFNSQFIMNNFIEMNKLWVRLQHQGPLRERETRTRERKELQILVGSQLVRLSQIIDDNFQMYKQDILPTILEQVIQCRDLVSQEYLLDVICQVFADEFHLKTLDTLLQTTLHLNPDVSINKIVLTLVDRLNDYVTRQLEDDPNATSTNAYLDMDVFGTFWDYLTVLNHERPDLSLQQFIPLVESVIVLSLKWYPNNFDNLNKLFELVLQKTKDYGQKNISLESEHLFLVLLSFQNSKLQLTSSTTAPPNSPVTSKKHFIFQLISQCQAYKNILALQSISLQKKVVNEIIDILMDREVEEMADNDSESKLHPPGHSAYLVIEDKLQVQRLLSICEPLIISRSGPPANVASSDTNVDEVFFNRHDEEESWILDPIQEKLAHLIHWIMNTTSRKQTMKNKIQFSLEAQLEILLLIKSSFIKGGINVKYTFPAIITNFWKLMRKCRMIQEYLLKKRPDNKTLLSHYSNLLKQMFKFVSRCINDIFNSCNNSCTDLILKLNLQCAILADQLQLNEISYDFFSQAFTIFEESLSDSKTQLQALIYIAQSLQKTRSLYKEAYYDSLIVRCTLHGSKLLKKQDQCRAVYLCSHLWWATEISNIGEEEGITDNFYRDGKRVLECLQRSLRVADSIMDNEQSCELMVEILNRCLYYFIHGDESETHISIKYINGLIELIKTNLKSLKLEDNSASMITNSISDLHITGENNVKASSNADDGSVITDKESNVAIGSDGTYIQLNTLNGSSTLIRGVVATASGSKLLHQLKYIPIHHFRRTCEYIESQREVDDRFKVIYV |
| 5130 | sp|P25874|UCP1\_HUMAN | MGGLTASDVHPTLGVQLFSAGIAACLADVITFPLDTAKVRLQVQGECPTSSVIRYKGVLGTITAVVKTEGRMKLYSGLPAGLQRQISSASLRIGLYDTVQEFLTAGKETAPSLGSKILAGLTTGGVAVFIGQPTEVVKVRLQAQSHLHGIKPRYTGTYNAYRIIATTEGLTGLWKGTTPNLMRSVIINCTELVTYDLMKEAFVKNNILADDVPCHLVSALIAGFCATAMSSPVDVVKTRFINSPPGQYKSVPNCAMKVFTNEGPTAFFKGLVPSFLRLGSWNVIMFVCFEQLKRELSKSRQTMDCAT |
| 5131 | sp|Q3UN04|UBP30\_MOUSE | MLSSRAQAARTAADKALQRFLRTGAAVRYKVMKNWGVIGGIAAALAAGIYVIWGPITERKKRRKGLVPGLVNLGNTCFMNSLLQGLSACPAFVKWLEEFTTQYSRDQQGPHTHQCLSLTLLNLLKALSCQEVTEDEVLDASCLLDVLRMYRWQISSFEEQDAHELFHVITSSLEDERDRQPRVTHLFDVHSLEQQSEMAPRQVTCHTRGSPHPTTNHWKSQHPFHGRLTSNMVCKHCEHQSPVRFDTFDSLSLSIPAATWGHPLTLDHCLHHFISSESVRDVVCDNCTKIEARGTLTGEKVEHQRSTFVKQLKLGKLPQCLCIHLQRLSWSSHGTPLKRHEHVQFNEFLMMDFYKYRLLGHKPSQHGPKATENPGSAPEVQDAQAAPKPGLSQPGAPKTQIFLNGACSPSLLPALPSPVAFPLPVVPDYSSSTYLFRLMAVVVHHGDMHSGHFVTYRRSPPSAKNPLSTSNQWLWISDDTVRKASLQEVLSSSAYLLFYERVLSRVQQQGREYRSEE |
| 5132 | sp|Q9WUF4|VAMP8\_RAT | MEASGSAGNDRVRNLQSEVEGVKNIMTQNVERILARGENLDHLRNKTEDLEATSEHFKTTSQKVARKFWWKNVKMIVIICVIVLIILILIILFATGTIPT |
| 5133 | sp|P27641|XRCC5\_MOUSE | MAWSGNKAAVVLCVDVGVAMGNSFPGEESPIEQAKKVMTMFVQRQVFSESKDEIALVLYGTDGTDNALAGKDQYQNITVCRHLMLPDFDLLEDIGNKIQPSSQQADFLDALIVCMDLIQRETIGKKFGKKHIEVFTDLSSPFSQDQLDVIICNLKKSGISLQFFLPFPIDKNGEPGERGDLDSGLDHLKPSFPQKGLTEQQKEGIRMVTRVMLSLEGEDGLDEIYSFSESLRQLCVFKKIERRSMPWPCQLTIGPNLSIKIVAYKSIVQEKFKKSWVVVDARTLKKEDIQKETVYCLNDDDETEVSKEDTIQGYRYGSDIIPFSKVDEEQMKYKSEGKCFSVLGFCKSSQVHRRFFMGHQVLKVFAAKDDEAAAVALSSLVHALDELNMVAIVRYAYDKRSNPQVGVAFPYIKDAYECLVYVQLPFMEDLRQYMFSSLKNNKKCTPTEAQLSAIDDLIDSMSLVKKNEEEDIVEDLFPTSKIPNPEFQRLYQCLLHRALHLQERLPPIQQHILNMLDPPTEMKAKCESPLSKVKTLFPLTEVIKKKNQVTAQDVFQDNHEEGPAAKKYKTEKEEDHISISSLAEGNITKVGSVNPVENFRFLVRQKIASFEEASLQLISHIEQFLDTNETLYFMKSMDCIKAFREEAIQFSEEQRFNSFLEALREKVEIKQLNHFWEIVVQDGVTLITKDEGPGSSITAEEATKFLAPKDKAKEDTTGPEEAGDVDDLLDMI |
| 5134 | sp|Q811B1|XYLT1\_MOUSE | MVAAPCARRLARRSHSALLAALMVLLLHTLVVWNFSSLDSGAGEQRRAGAAAGAAEQQQPAAPRRERRDLAAHLPAARGGPGGRAGGGGARGGGPGGARAQQPASRGALASRARDPQPSPLITLETQDGYFSHRPKEKVRTDSNNENSVPKDFENVDNSNFAPRTQKQKHQPELAKKPPSRQKEHLQRKLDALDKRQGQSVLGKGPKEVLPPREKATGNSSQGKDLSRHSHARKSGGGGSPETKSDQAPKCDISGKEAISALTRAKSKHCRQEIAETYCRHKLGLLMPEKVARFCPLKGKAHKNVQWDEDAVEYMPANPVRIAFVLVVHGRAFRQFQRMSKAIYHKDHFYYIHVDKRSNYLHRQGLQFSRQYENVRVTSWKMATIWGGASFLSTYLQSMRDLLEMTDWPWDFFINLSAADYPIRTNDQLVAFLSRYRDMNFLKSHGRDNARFIRKQGLDRLFLECDTHMWRLGDRRIPEGIAVDGGSDWFLLNRKFVEYVAFSTDDLVTKMKQFYSYTLLPAESFFHTVLENSPHCDTMVDNNLRITNWNRKLGCKCQYKHIVDWCGCSPNDFKPQDFHRFQQTARPTFFARKFEAIVNQEIIGQLDSYLSGNFPAGTPGLRSYWEKLYDQSAPLRSLSDVALTMYHSFIRLGLRRAESSLHTDGENSCRYYPMGHPVSVHFYFLADRFQGFLIKHHVTNLAVSKLETLETWMMPKEVFKVASPPSDFGRLQFSEVGTDWDAKERLFRNFGGLLGPMDEPVGMQKWGKGPNVTVTVIWVDPVNVITATYDILIESTAEFTHYKPPLNLPLRPGVWTVKILHHWVPVAETKFLVAPLTFSNKQPIKPEEALKLHNGPPRSAYMEQSFQSLNPVLSLHINPAQVEQARKNAAFTGTALEAWLDSLVGGTWTAMDICTTGPTACPVMQTCSQTAWSSFSPDPKSELGAVKPDGRLR |
| 5135 | sp|Q92558|WASF1\_HUMAN | MPLVKRNIDPRHLCHTALPRGIKNELECVTNISLANIIRQLSSLSKYAEDIFGELFNEAHSFSFRVNSLQERVDRLSVSVTQLDPKEEELSLQDITMRKAFRSSTIQDQQLFDRKTLPIPLQETYDVCEQPPPLNILTPYRDDGKEGLKFYTNPSYFFDLWKEKMLQDTEDKRKEKRKQKQKNLDRPHEPEKVPRAPHDRRREWQKLAQGPELAEDDANLLHKHIEVANGPASHFETRPQTYVDHMDGSYSLSALPFSQMSELLTRAEERVLVRPHEPPPPPPMHGAGDAKPIPTCISSATGLIENRPQSPATGRTPVFVSPTPPPPPPPLPSALSTSSLRASMTSTPPPPVPPPPPPPATALQAPAVPPPPAPLQIAPGVLHPAPPPIAPPLVQPSPPVARAAPVCETVPVHPLPQGEVQGLPPPPPPPPLPPPGIRPSSPVTVTALAHPPSGLHPTPSTAPGPHVPLMPPSPPSQVIPASEPKRHPSTLPVISDARSVLLEAIRKGIQLRKVEEQREQEAKHERIENDVATILSRRIAVEYSDSEDDSEFDEVDWLE |
| 5136 | sp|Q9H7D7|WDR26\_HUMAN | MQANGAGGGGGGGGGGGGGGGGGGGQGQTPELACLSAQNGESSPSSSSSAGDLAHANGLLPSAPSAASNNSNSLNVNNGVPGGAAAASSATVAAASATTAASSSLATPELGSSLKKKKRLSQSDEDVIRLIGQHLNGLGLNQTVDLLMQESGCRLEHPSATKFRNHVMEGDWDKAENDLNELKPLVHSPHAIVVRGALEISQTLLGIIVRMKFLLLQQKYLEYLEDGKVLEALQVLRCELTPLKYNTERIHVLSGYLMCSHAEDLRAKAEWEGKGTASRSKLLDKLQTYLPPSVMLPPRRLQTLLRQAVELQRDRCLYHNTKLDNNLDSVSLLIDHVCSRRQFPCYTQQILTEHCNEVWFCKFSNDGTKLATGSKDTTVIIWQVDPDTHLLKLLKTLEGHAYGVSYIAWSPDDNYLVACGPDDCSELWLWNVQTGELRTKMSQSHEDSLTSVAWNPDGKRFVTGGQRGQFYQCDLDGNLLDSWEGVRVQCLWCLSDGKTVLASDTHQRIRGYNFEDLTDRNIVQEDHPIMSFTISKNGRLALLNVATQGVHLWDLQDRVLVRKYQGVTQGFYTIHSCFGGHNEDFIASGSEDHKVYIWHKRSELPIAELTGHTRTVNCVSWNPQIPSMMASASDDGTVRIWGPAPFIDHQNIEEECSSMDS |
| 5137 | sp|Q6ZQL4|WDR43\_MOUSE | MAAGGGGSYDPLAPAGVPCAFSPDSQAYFALASSDGQLRVWETANNRLHQEYVPSAHLSGTCTCLAWAPARLQAKESHQRKKRKSEVTGTKDQADLLALGTAVGSILLYSTVRGELHSKLTSGGHENRVNCIQWHQDNDCLYSCSDDKYIVEWSTQTCKVKCKWKGDNSSVSSLCISPDGKMLLSAGRTIKLWVLETKEVYRHFTGHATPVSSLRFTTIRPNESQPSDGITGLYFLSGAVHDRLLNVWQVRSENKEKSAVMSFTVTDEPVYVDLTLSENKEEPVKLAVVCRDGQVHLFEHILNGHCKKPLTSNCTIQIATPGKGKKVTPKPIPILAASFCLDKMSLLLVYGNWFQPTIERVALNSKDTHICLERDISNCWAPTVETAITKVKTPVMNSEAKVLVPGIPGHHAPIKLPPAQPKEAENKRKLGSTEATIEERLGAMDLDRKGRKDDLQTNSFAVLLTQGLESNDFEILNKVLQTKNVNLIKRTVLRIPLRVVIPLLQELTKRLQGHPNSAALMIQWLKCVLTIHASYLSTLPDLVEQLGTLYQLMESRVKTFQKLSNLHGKLILLVTQVTASEKSKKMTSPGQKAKLVYEEESSEEESDDEVPEKDSDDNWDEDEDKDSEKDEGVDEDNEEEDEDMEDKEENEEDREVSSEKELNGDSDLDPENESEEE |
| 5138 | sp|O75695|XRP2\_HUMAN | MGCFFSKRRKADKESRPENEEERPKQYSWDQREKVDPKDYMFSGLKDETVGRLPGTVAGQQFLIQDCENCNIYIFDHSATVTIDDCTNCIIFLGPVKGSVFFRNCRDCKCTLACQQFRVRDCRKLEVFLCCATQPIIESSSNIKFGCFQWYYPELAFQFKDAGLSIFNNTWSNIHDFTPVSGELNWSLLPEDAVVQDYVPIPTTEELKAVRVSTEANRSIVPISRGQRQKSSDESCLVVLFAGDYTIANARKLIDEMVGKGFFLVQTKEVSMKAEDAQRVFREKAPDFLPLLNKGPVIALEFNGDGAVEVCQLIVNEIFNGTKMFVSESKETASGDVDSFYNFADIQMGI |
| 5139 | sp|Q8TAF3|WDR48\_HUMAN | MAAHHRQNTAGRRKVQVSYVIRDEVEKYNRNGVNALQLDPALNRLFTAGRDSIIRIWSVNQHKQDPYIASMEHHTDWVNDIVLCCNGKTLISASSDTTVKVWNAHKGFCMSTLRTHKDYVKALAYAKDKELVASAGLDRQIFLWDVNTLTALTASNNTVTTSSLSGNKDSIYSLAMNQLGTIIVSGSTEKVLRVWDPRTCAKLMKLKGHTDNVKALLLNRDGTQCLSGSSDGTIRLWSLGQQRCIATYRVHDEGVWALQVNDAFTHVYSGGRDRKIYCTDLRNPDIRVLICEEKAPVLKMELDRSADPPPAIWVATTKSTVNKWTLKGIHNFRASGDYDNDCTNPITPLCTQPDQVIKGGASIIQCHILNDKRHILTKDTNNNVAYWDVLKACKVEDLGKVDFEDEIKKRFKMVYVPNWFSVDLKTGMLTITLDESDCFAAWVSAKDAGFSSPDGSDPKLNLGGLLLQALLEYWPRTHVNPMDEEENEVNHVNGEQENRVQKGNGYFQVPPHTPVIFGEAGGRTLFRLLCRDSGGETESMLLNETVPQWVIDITVDKNMPKFNKIPFYLQPHASSGAKTLKKDRLSASDMLQVRKVMEHVYEKIINLDNESQTTSSSNNEKPGEQEKEEDIAVLAEEKIELLCQDQVLDPNMDLRTVKHFIWKSGGDLTLHYRQKST |
| 5140 | sp|P93046|XTH31\_ARATH | MALSLIFLALLVLCPSSGHSQRSPSPGYYPSSRVPTSPFDREFRTLWGSQHQRREQDVVTLWLDKSTGSGFKSLRPYRSGYFGASIKLQPGFTAGVDTSLYLSNNQEHPGDHDEVDIEFLGTTPGKPYSLQTNVFVRGSGDRNVIGREMKFTLWFDPTQDFHHYAILWNPNQIVFFVDDVPIRTYNRKNEAIFPTRPMWVYGSIWDASDWATENGRIKADYRYQPFVAKYKNFKLAGCTADSSSSCRPPSPAPMRNRGLSRQQMAALTWAQRNFLVYNYCHDPKRDHTQTPEC |
| 5141 | sp|Q6DID7|WLS\_MOUSE | MAGAIIENMSTKKLCIVGGILLVFQIVAFLVGGLIAPAPTTAVPYTAIKCVDVRKNHHKTRWLAPWGPNKCDKIRDIEEAIPREIEANDIVFSVHIPLPSMEMSPWFQFMLFILQLDIAFKLNNQIRENAEISMDVSLGYRDDMFSEWTEMAHERVPRKLKCTFTSPKTPEHEGRYYNCDVLPFMEIGSVAHKYYLLNIRLPVNEKKKINVGIGEIKDIRLVGIHQNGGFTKVWFAMKTFLTPSIFIIMVWYWRRITMMSRPPVLLEKVIFALGISMTFINIPVEWFSIGFDWTWMLLFGDIRQGIFYAMLLSFWIIFCGEHMMDQHERNHIAGYWKQVGPIAVGSFCLFIFDMCERGVQLTNPFYSIWTTDVGTELAMAFIIVAGICLCLYFLFLCFMVFQVFRNISGKQSSLPAMSKVRRLHYEGLIFRFKFLMLITLACAAMTVIFFIVSQVSEGHWKWGGVTVQVSSAFFTGIYGMWNLYVFALMFLYAPSHKNYGEDQSNGDLGVHSGEELQLTTTITHVDGPTEIYKLTRKEAQE |
| 5142 | sp|P05388|RLA0\_HUMAN | MPREDRATWKSNYFLKIIQLLDDYPKCFIVGADNVGSKQMQQIRMSLRGKAVVLMGKNTMMRKAIRGHLENNPALEKLLPHIRGNVGFVFTKEDLTEIRDMLLANKVPAAARAGAIAPCEVTVPAQNTGLGPEKTSFFQALGITTKISRGTIEILSDVQLIKTGDKVGASEATLLNMLNISPFSFGLVIQQVFDNGSIYNPEVLDITEETLHSRFLEGVRNVASVCLQIGYPTVASVPHSIINGYKRVLALSVETDYTFPLAEKVKAFLADPSAFVAAAPVAAATTAAPAAAAAPAKVEAKEESEESDEDMGFGLFD |
| 5143 | sp|Q1M964|RLPMH\_RHIL3 | MRKKNVLLIVVDQWRADFVPHVLRADGKIDFLKTPNLDRLCREGVTFRNHVTTCVPCGPARASLLTGLYLMNHRAVQNTVPLDQRHLNLGKALRGVGYDPALIGYTTTVPDPRTTSPNDPRFRVLGDLMDGFHPVGAFEPNMEGYFGWVAQNGFDLPEHRPDIWLPEGEDAVAGATDRPSRIPKEFSDSTFFTERALTYLKGRDGKPFFLHLGYYRPHPPFVASAPYHAMYRPEDMPAPIRAANPDIEAAQHPLMKFYVDSIRRGSFFQGAEGSGATLDEAELRQMRATYCGLITEVDDCLGRVFSYLDETGQWDDTLIIFTSDHGEQLGDHHLLGKIGYNDPSFRIPLVIKDAGENARAGAIESGFTESIDVMPTILDWLGGKIPHACDGLSLLPFLSEGRPQDWRTELHYEYDFRDVYYSEPQSFLGLGMNDCSLCVIQDERYKYVHFAALPPLFFDLRHDPNEFTNLADDPAYAALVRDYAQKALSWRLKHADRTLTHYRSGPEGLSERSH |
| 5144 | sp|Q16540|RM23\_HUMAN | MARNVVYPLYRLGGPQLRVFRTNFFIQLVRPGVAQPEDTVQFRIPMEMTRVDLRNYLEGIYNVPVAAVRTRVQHGSNKRRDHRNVRIKKPDYKVAYVQLAHGQTFTFPDLFPEKDESPEGSAADDLYSMLEEERQQRQSSDPRRGGVPSWFGL |
| 5145 | sp|O15160|RPAC1\_HUMAN | MAASQAVEEMRSRVVLGEFGVRNVHTTDFPGNYSGYDDAWDQDRFEKNFRVDVVHMDENSLEFDMVGIDAAIANAFRRILLAEVPTMAVEKVLVYNNTSIVQDEILAHRLGLIPIHADPRLFEYRNQGDEEGTEIDTLQFRLQVRCTRNPHAAKDSSDPNELYVNHKVYTRHMTWIPLGNQADLFPEGTIRPVHDDILIAQLRPGQEIDLLMHCVKGIGKDHAKFSPVATASYRLLPDITLLEPVEGEAAEELSRCFSPGVIEVQEVQGKKVARVANPRLDTFSREIFRNEKLKKVVRLARVRDHYIFSVESTGVLPPDVLVSEAIKVLMGKCRRFLDELDAVQMD |
| 5146 | sp|P24928|RPB1\_HUMAN | MHGGGPPSGDSACPLRTIKRVQFGVLSPDELKRMSVTEGGIKYPETTEGGRPKLGGLMDPRQGVIERTGRCQTCAGNMTECPGHFGHIELAKPVFHVGFLVKTMKVLRCVCFFCSKLLVDSNNPKIKDILAKSKGQPKKRLTHVYDLCKGKNICEGGEEMDNKFGVEQPEGDEDLTKEKGHGGCGRYQPRIRRSGLELYAEWKHVNEDSQEKKILLSPERVHEIFKRISDEECFVLGMEPRYARPEWMIVTVLPVPPLSVRPAVVMQGSARNQDDLTHKLADIVKINNQLRRNEQNGAAAHVIAEDVKLLQFHVATMVDNELPGLPRAMQKSGRPLKSLKQRLKGKEGRVRGNLMGKRVDFSARTVITPDPNLSIDQVGVPRSIAANMTFAEIVTPFNIDRLQELVRRGNSQYPGAKYIIRDNGDRIDLRFHPKPSDLHLQTGYKVERHMCDGDIVIFNRQPTLHKMSMMGHRVRILPWSTFRLNLSVTTPYNADFDGDEMNLHLPQSLETRAEIQELAMVPRMIVTPQSNRPVMGIVQDTLTAVRKFTKRDVFLERGEVMNLLMFLSTWDGKVPQPAILKPRPLWTGKQIFSLIIPGHINCIRTHSTHPDDEDSGPYKHISPGDTKVVVENGELIMGILCKKSLGTSAGSLVHISYLEMGHDITRLFYSNIQTVINNWLLIEGHTIGIGDSIADSKTYQDIQNTIKKAKQDVIEVIEKAHNNELEPTPGNTLRQTFENQVNRILNDARDKTGSSAQKSLSEYNNFKSMVVSGAKGSKINISQVIAVVGQQNVEGKRIPFGFKHRTLPHFIKDDYGPESRGFVENSYLAGLTPTEFFFHAMGGREGLIDTAVKTAETGYIQRRLIKSMESVMVKYDATVRNSINQVVQLRYGEDGLAGESVEFQNLATLKPSNKAFEKKFRFDYTNERALRRTLQEDLVKDVLSNAHIQNELEREFERMREDREVLRVIFPTGDSKVVLPCNLLRMIWNAQKIFHINPRLPSDLHPIKVVEGVKELSKKLVIVNGDDPLSRQAQENATLLFNIHLRSTLCSRRMAEEFRLSGEAFDWLLGEIESKFNQAIAHPGEMVGALAAQSLGEPATQMTLNTFHYAGVSAKNVTLGVPRLKELINISKKPKTPSLTVFLLGQSARDAERAKDILCRLEHTTLRKVTANTAIYYDPNPQSTVVAEDQEWVNVYYEMPDFDVARISPWLLRVELDRKHMTDRKLTMEQIAEKINAGFGDDLNCIFNDDNAEKLVLRIRIMNSDENKMQEEEEVVDKMDDDVFLRCIESNMLTDMTLQGIEQISKVYMHLPQTDNKKKIIITEDGEFKALQEWILETDGVSLMRVLSEKDVDPVRTTSNDIVEIFTVLGIEAVRKALERELYHVISFDGSYVNYRHLALLCDTMTCRGHLMAITRHGVNRQDTGPLMKCSFEETVDVLMEAAAHGESDPMKGVSENIMLGQLAPAGTGCFDLLLDAEKCKYGMEIPTNIPGLGAAGPTGMFFGSAPSPMGGISPAMTPWNQGATPAYGAWSPSVGSGMTPGAAGFSPSAASDASGFSPGYSPAWSPTPGSPGSPGPSSPYIPSPGGAMSPSYSPTSPAYEPRSPGGYTPQSPSYSPTSPSYSPTSPSYSPTSPNYSPTSPSYSPTSPSYSPTSPSYSPTSPSYSPTSPSYSPTSPSYSPTSPSYSPTSPSYSPTSPSYSPTSPSYSPTSPSYSPTSPSYSPTSPSYSPTSPSYSPTSPSYSPTSPNYSPTSPNYTPTSPSYSPTSPSYSPTSPNYTPTSPNYSPTSPSYSPTSPSYSPTSPSYSPSSPRYTPQSPTYTPSSPSYSPSSPSYSPASPKYTPTSPSYSPSSPEYTPTSPKYSPTSPKYSPTSPKYSPTSPTYSPTTPKYSPTSPTYSPTSPVYTPTSPKYSPTSPTYSPTSPKYSPTSPTYSPTSPKGSTYSPTSPGYSPTSPTYSLTSPAISPDDSDEEN |
| 5147 | sp|Q02933|RNY1\_YEAST | MLLKNLHSLLQLPIFSNGADKGIEPNCPINIPLSCSNKTDIDNSCCFEYPGGIFLQTQFWNYFPSKNDLNETELVKELGPLDSFTIHGLWPDNCHGGYQQFCNRSLQIDDVYYLLHDKKFNNNDTSLQISGEKLLEYLDLYWKSNNGNHESLWIHEFNKHGTCISTIRPECYTEWGANSVDRKRAVYDYFRITYNLFKKLDTFSTLEKNNIVPSVDNSYSLEQIEAALSKEFEGKKVFIGCDRHNSLNEVWYYNHLKGSLLSEMFVPMDSLAIRTNCKKDGIKFFPKGYVPTFRRRPNKGARYRGVVRLSNINNGDQMQGFLIKNGHWMSQGTPANYELIKSPYGNYYLRTNQGFCDIISSSSNELVCKFRNIKDAGQFDFDPTKGGDGYIGYSGNYNWGGDTYPRRRNQSPIFSVDDEQNSKKYKFKLKFIKN |
| 5148 | sp|Q9NS64|RPRM\_HUMAN | MNPALGNQTDVAGLFLANSSEALERAVRCCTQASVVTDDGFAEGGPDERSLYIMRVVQIAVMCVLSLTVVFGIFFLGCNLLIKSEGMINFLVKDRRPSKEVEAVVVGPY |
| 5149 | sp|P07280|RS19A\_YEAST | MPGVSVRDVAAQDFINAYASFLQRQGKLEVPGYVDIVKTSSGNEMPPQDAEGWFYKRAASVARHIYMRKQVGVGKLNKLYGGAKSRGVRPYKHIDASGSINRKVLQALEKIGIVEISPKGGRRISENGQRDLDRIAAQTLEEDE |
| 5150 | sp|O95059|RPP14\_HUMAN | MPAPAATYERVVYKNPSEYHYMKVCLEFQDCGVGLNAAQFKQLLISAVKDLFGEVDAALPLDILTYEEKTLSAILRICSSGLVKLWSSLTLLGSYKGKKCAFRVIQVSPFLLALSGNSRELVLD |
| 5151 | sp|Q9NVC3|S38A7\_HUMAN | MAQVSINNDYSEWDLSTDAGERARLLQSPCVDTAPKSEWEASPGGLDRGTTSTLGAIFIVVNACLGAGLLNFPAAFSTAGGVAAGIALQMGMLVFIISGLVILAYCSQASNERTYQEVVWAVCGKLTGVLCEVAIAVYTFGTCIAFLIIIGDQQDKIIAVMAKEPEGASGPWYTDRKFTISLTAFLFILPLSIPREIGFQKYASFLSVVGTWYVTAIVIIKYIWPDKEMTPGNILTRPASWMAVFNAMPTICFGFQCHVSSVPVFNSMQQPEVKTWGGVVTAAMVIALAVYMGTGICGFLTFGAAVDPDVLLSYPSEDMAVAVARAFIILSVLTSYPILHFCGRAVVEGLWLRYQGVPVEEDVGRERRRRVLQTLVWFLLTLLLALFIPDIGKVISVIGGLAACFIFVFPGLCLIQAKLSEMEEVKPASWWVLVSYGVLLVTLGAFIFGQTTANAIFVDLLA |
| 5152 | sp|Q7RTT9|S29A4\_HUMAN | MGSVGSQRLEEPSVAGTPDPGVVMSFTFDSHQLEEAAEAAQGQGLRARGVPAFTDTTLDEPVPDDRYHAIYFAMLLAGVGFLLPYNSFITDVDYLHHKYPGTSIVFDMSLTYILVALAAVLLNNVLVERLTLHTRITAGYLLALGPLLFISICDVWLQLFSRDQAYAINLAAVGTVAFGCTVQQSSFYGYTGMLPKRYTQGVMTGESTAGVMISLSRILTKLLLPDERASTLIFFLVSVALELLCFLLHLLVRRSRFVLFYTTRPRDSHRGRPGLGRGYGYRVHHDVVAGDVHFEHPAPALAPNESPKDSPAHEVTGSGGAYMRFDVPRPRVQRSWPTFRALLLHRYVVARVIWADMLSIAVTYFITLCLFPGLESEIRHCILGEWLPILIMAVFNLSDFVGKILAALPVDWRGTHLLACSCLRVVFIPLFILCVYPSGMPALRHPAWPCIFSLLMGISNGYFGSVPMILAAGKVSPKQRELAGNTMTVSYMSGLTLGSAVAYCTYSLTRDAHGSCLHASTANGSILAGL |
| 5153 | sp|Q9Y6B6|SAR1B\_HUMAN | MSFIFDWIYSGFSSVLQFLGLYKKTGKLVFLGLDNAGKTTLLHMLKDDRLGQHVPTLHPTSEELTIAGMTFTTFDLGGHVQARRVWKNYLPAINGIVFLVDCADHERLLESKEELDSLMTDETIANVPILILGNKIDRPEAISEERLREMFGLYGQTTGKGSISLKELNARPLEVFMCSVLKRQGYGEGFRWMAQYID |
| 5154 | sp|P55018|S12A3\_RAT | MAELPVTEMPGDALCSGRFTISTLLGGDEPPPAACDNSQPSHLTHGSTLYLRTFGYNTIDVVPAYEHYANSALPGEPRKVRPTLADLHSFLKQEGSHLHALAFDGRPGHELTDGLVEDETGANSEKSPGEPVRFGWVKGVMIRCMLNIWGVILYLRLPWITAQAGIVLTWLIILLSVMVTSITGLSISAISTNGKVKSGGTYFLISRSLGPELGGSIGLIFAFANAVGVAMHTVGFAETVRDLLQENGTPIVDPINDIRIIGVVTVTVLLAISLAGMEWESKAQVLFFLVIMVSFANYLVGTLIPASKDKASKGFYSYHGDIFVQNLVPDWRGIDGSFFGMFSIFFPSATGILAGANISGDLKDPAVAIPKGTLMAIFWTTISYLAISATIGSCVVRDASGDVNDTITPGPGLCEGLACGYGWNFTECSQQHSCRYGLINYYQTMSMVSAFAPLITAGIFGATLSSALACLVSAAKVFQCLCEDQLYPLIGFFGKGYGKNKEPVRGYLLAYAIAVAFIIIAELNTIAPIISNFFLCSYALINFSCFHASITNSPGWRPSFRYYSKWAALFGAVISVVIMFLLTWWAALIAIGVVLFLLLYVIYKKPEVNWGSSVQAGSYNLALSYSVGLNEVEDHIKNYRPQCLVLTGPPNFRPALVDFVSTFTQNLSLMICGHVLIAPGKQRVPELRLIASGHTKWLNKRKIKAFYSDVIAEDLRSGVQILMQASGLGRMKPNILVVGFKKNWQSAHPATLEDYIGILHDAFDFNYGVCIMRMREGLNVSEALQTHTAPEALVQEEQTSTIFQSEQGKKTIDIYWLFDDGGLTLLIPYLLHRKKRWGKCKIRVFVGGQINRMDEERKAIISLLSKFRLGFHEVHVLPDINQKPQVEHTKRFEDMIAPFRLNDGFKDEATVAEMRRDYPWKISDEEINKNRIKSLRQVRLNEILLDYSRDAALIILTLPIGRKGKCPSSLYMAWLETLSQDLSPPVLLIRGNQENVLTFYCQ |
| 5155 | sp|Q9TS33|RYR3\_RABIT | MAEGGEGGEDEIQFLRTEDEVVLQCIATVHKEQRKFCLAAEGLGNRLCFLEPTSEAKFIPPDLCVCNFVLEQSLSVRALQEMLANTGENGGEGAAQGGGHRTLLYGHAILLRHSFSGMYLTCLTTSRSQTDKLAFDVGLREHATGEACWWTIHPASKQRSEGEKVRIGDDLILVSVSSERYLHLSISNGNIQVDASFMQTLWNVHPTCSGSSIEEGYLLGGHVVRLFHGHDECLTIPSTDQNDSQHRRIFYEAGGAGTRARSLWRVEPLRISWSGSNIRWGQAFRLRHLTTGHYLALTEDQGLLLQDRGKADTKSTAFSFRPSKETKEKLDSSHKRDIEGMGVPEIKYGDSVCFVQHIASGLWVTYKAQDAKTSRLGPLKRKVILHQEGHMDDGLTLQRCQREESQAARIIRNTTALFSQFVSGNNRTAAPVTLPIEEVLQTLHDLIAYFQPPEEEMQHEDKQNKLRSLKNRQNLFKEEGMLALVLNCIDRLNIYNSVAHFAGIAREESGMAWKEVLSLLYKLLAALIRGNRNTCAQFSNNLDWLISKLDRLESSSGILEVLHCILIESPEALNLIAEGHIKSIISLLDKHGRNHKVLDVLCSLCLCNGVAVRANQNLICDNLLPRRNLLLQTRLINDVTSIRPNIFLGVAEGSAQYKKWYFELIIDQVDPFLTAEPTHLRVGWASSSGYAPYPGGGEGWGGNGVGDDLYSYGFDGLHLWSGRIPRAVASINQHLLKSDDVVSCCLDLGVPSISFRINGQPVQGMFENFNTDGLFFPVMSFSAGVKVRFLMGGRHGEFKFLPPSGYAPCYEALLPKEKMRLEPVKEYKRDAEGVRDLLGTTQFLSQASFIPCPIDTSQVVLPPHLEKIRDRLAENIHELWGMNKIELGWTFGKMRDDNKRQHPCLVEFSKLPETEKNYNLQMSTETLKTLLALGCHIAHVNPAAEEDLKKVKLPKNYMMSNGYKPAPLDLSDVKLLPPQEILVDKLAENAHNVWAKDRIKQGWTYGIQQDLKNKRNPRLVPYALLDERTKKSNRDSLREAVRTFVGYGYNIEPSDQELADPAVEKVSIDKIRFFRVERSYAVRSGKWYFEFEVVTGGDMRVGWARPGCRPDIELGPMTKPLCLKAAGASVGTKVVGILGVPWQPGDVVGCMINLDDASMIFTLNGELLITNKGSELAFADYEIENGFVPICSLGLSQIGRMNLGTDASTFKFYTMCGLQEGFEPFAVNMNRDVAMWFSKRLPTFVNVPKDHPHIEVVRIDGTMDSPPCLKVTHKTFGTQNSNANMIYCRLSMPVECHSSFSHSPCLDSEAFQKRKQMQEILSHTTTQCFYSIRIFAGQDPSCVWVGWVTPDYHLYSEKFDLNKNCTVTVTLGDERGRVHESVKRSNCYMVWGGDVVASSQRSSRSNVDLEIGCLVDLAMGMLSFSANGKELGTCYQVEPNTKVFPAVFLQPTSTSLFQFELGKLKNAMPLSAAIFKSEEKNPVPQCPPRLDVQTIQPVLWSRMPNSFLKVETERVSERHGWVVQCLEPLQMMALHIPEENRCVDILELCEQEDLMQFHYHTLRLYSAVCALGNSRVAYALCSHVDLSQLFHAIDNKYLPGLLRSGFYDLLISIHLANAKERKLMMKNEYIIPITSTTRNIRLYPDESKKHGLPGVGPRTCLKPGFKFSTPCFVVTNEERQKQSPEIPLEILKMKALSMLTEAVQCSGAHIRDPVGGSVEFQFVPVLKLVGTLLVMGVFCDDDVRQILLLIDPSVFGEHSADTEEGAEKEEVSQVEEKAVEAGEKTSKEARKEAPVRGLLQTRLPESVKLQMCELLSYLCDCELQHRVEAIVAFGDIYVSKLQANQKFRYNELMQALNMSAALTARKTREFRSPPQEQINMLLNFQLGENCPCPEEIREELYDFHEDLLVHCGVPLEEEEEEEEDTSWTGKLRTLVYKIKGPPKPEKEQPTEEEERCPTTLKELISQTMIRWAQEDQIQDAELVRMMFNLLRRQYDSIGELLQALRKTYTISHASVSDTINLLAALGQIRSLLSVRMGREEELLMINGLGDIMNNKVFYQHPNLMRVLGMHETVMEVMVNVLGTEKSQIAFPKMVASCCRFLCYFCRISRQNQKAMFEHLSYLLENSSVGLASPSMRGSTPLDVAASSVMDNNELALGLEEPDLEKVVTYLAGCGLQSCPMLLAKGYPDVGWNPIEGERYLSFLRFAVFVNSESVEENASVVVKLLIRRPECFGPALRGEGGNGLLAAMQGAIKISESPALDLPSQGYKREVPEDGEEEEEIVHMGNAIMSFYSALIDLLGRCAPEMHLIQTGKGEAIRIRSILRSLVPTEDLVGIISIPLKLPSLNKDGSVSEPDMAANFCPDHKAPMVLFLDRVYGIKDQTFLLHLLEVGFLPDLRASASLDTVALSTTESALALNRYICSAVLPLLTRCAPLFAGTEHYTSLIDSTLQTIYRLSKGRSLTKAQRDTIEECLLAICNHLRPSMLQQLLRRLVFDVPQLNDYCKMPLKLLTNHFEQCWKYYCLPSGWGSYGLAVEEELHLTEKLFWGIFDSLSHKKYDPDLFRMSLPCLSAIAGALPPDYLDTRITATLEKQVSVDADGNFDPKPINTINFSLPEKLEYIVTKYAEHSHDKWACEKSQSGWKYGISLDENVKTHPLIRPFKTLTEKEKEIYRWPARESLKTMLAVGWTVERTKEGEALVQLRENEKLRSVSQTSQGNSYNPAPLDLSNVVLSRELQGMVEVVAENYHNIWAKKKKLELESKGGGSHPLLVPYDTLTAKEKFRDREKAQDLFKFLQVNGVIVSRGMKDMELDAFSMEKRFAYKFLKKILKYVDSAQEFIAHLEAIVSSGKTEKSPHDQEIKFFAKVLLPLVDQYFTNHRLYFLSSPLKPLSSSGYASHKEKEMVASLFCKLAALVRHRISLFGSDSTTMVSCLHILAQTLDTRTVMKSGSELVKAGLRAFFESAAEDLEKTSENLKLGKFTHSRTQIKGVSQNINYTTVALLPILTSIFEHVAQHQFGVDLLLGDVQISCYRILCSLYSLGTGKNIYVERQRPALGECLASLAAAIPVAFLEPTLNRYNALSVFNTKTPRERSILGMPDTVEEMCPDIPQLEGLMKEINDLAESGARYTEMPHVIEVILPMLCNYLSYWWERGPENLSPSTGPCCSKVTSEHLSLILGNILKIINNNLGIDEASWMKRIAVYAQPIISKARPDLLRSHFIPTLEKLKKKAVKTVQEEEQLKADGKGDTQEAELLILDEFAILCRDLYAFYPMLIRYVDNNRSNWLKSPDGDSDQLFRMVAEVFILWCKSHNFKREEQNFVIQNEINNLAFLTGDSKSKMSKAMQVKSGGQDQERKKTKRRGDLYSIQTSLIVAALKKMLPIGLNMCTPGDQELISLAKSRYSYRDTDEEVKEHLRNNLHLQEKSDDPAVKWQLNLYKDVLKSEEPSNPEKTVERVQRISAAVFHLEQVEQPLRSKKAVWHKLLSKQRKRAVVACFRMAPLYNLPRHRSINLFLHGYQRFWIETEEYSFEEKLVQDLAKSPKVEEEEEEEMEKQPDPLHQIILHFSRNALTERSKLEDDPLYTSYSSMMAKSCQSGEDEEEEDKEKTFEEKEMEKQKTLYQQARLHERGAAEMVLQMISASKGEMSPMVVETLKLGIAILNGGNAGVQQKMLDYLKVKKDAGFFQSLSGLMQSCSVLDLNAFERQNKAEGLGMVTEEGTLIVRERGEKVLQNDEFTRDLFRFLQLLCEGHNSDFQNFLRTQMGNTTTVNVIISTVDYLLRLQESISDFYWYYSGKDIIDESGQHNFSKALAVTKQIFNSLTEYIQGPCIGNQQSLAHSRLWDAVVGFLHVFANMQMKLSQDSSQIELLKELLDLLQDMVVMLLSLLEGNVVNGTIGKQMVDTLVESSTNVEMILKFFDMFLKLKDLTSSDTFKEYDPDGKGIISKKEFQKAMEGQKQYTQSEIDFLLSCAEADENDMFNYIDFVDRFHEPAKDIGFNVAVLLTNLSEHMPNDSRLKCLLDPAESVLNYFEPYLGRIEIMGGAKKIERVYFEISESSRTQWEKPQVKESKRQFIFDVVNEGGEQEKMELFVNFCEDTIFEMQLASQISESDSADRPEEEEGDEESSYVLEINGEEEEDKSFESASAFAMACASLKRNITNLLRKATLKNLRKQYRNVKKMTAKELVKVFFSFFWMLFVGLFQLFFTIVGGIFQILWSTVFGGGLVEGAKNIRVTKILGDMPDPTQFGIHDDAMEAERAEVAEAGITTELVHFVKGERGDTELMSDLFGLHPKKEGGVKHGPEVGLGDLSEIIGKDEPPTLESTVRKKRKAQAAETKAEHEAEGKVESEKADLEDGEKEDKAKEEERAEYLWAEVTKKKKRRRGQKVEKPEAFMANFFKGLEIYQTKLLHYLARNFYNLRFLALFVAFAINFILLFYKVTEEPLEEETEDVANLWNSLNDEEEEEAMVFFVLQESTGYMAPTLRALAVVHTIISLVCVVGYYCLKVPLVVFKREKEIARKLEFDGLYITEQPSEDDIKGQWDRLVINTPSFPHNYWDKFVKRKVINKYGDLYGAERIAELLGLDKNALDFSPVEETTAEAASLVSWLSSIDMKYHIWKLGVVFTDNSFLYLAWYTTMSVLGHYNNFFFAAHLLDIAMGFKTLRTILSSVTHNGKQLVLTVGLLAVVVYLYTVVAFNFFRKFYNKSEDDDEPDMKCDDMMTCYLFHMYVGVRAGGGIGDEIEDPAGDPYEMYRIVFDITFFFFVIVILLAIIQGLIIDAFGELRDQQEQVREDMETKCFICGIGNDYFDTTPHGFETHTLQEHNLANYLFFLMYLINKDETEHTGQESYVWKMYQERCWDFFPAGDCFRKQYEDQLG |
| 5156 | sp|Q15043|S39AE\_HUMAN | MKLLLLHPAFQSCLLLTLLGLWRTTPEAHASSLGAPAISAASFLQDLIHRYGEGDSLTLQQLKALLNHLDVGVGRGNVTQHVQGHRNLSTCFSSGDLFTAHNFSEQSRIGSSELQEFCPTILQQLDSRACTSENQENEENEQTEEGRPSAVEVWGYGLLCVTVISLCSLLGASVVPFMKKTFYKRLLLYFIALAIGTLYSNALFQLIPEAFGFNPLEDYYVSKSAVVFGGFYLFFFTEKILKILLKQKNEHHHGHSHYASESLPSKKDQEEGVMEKLQNGDLDHMIPQHCSSELDGKAPMVDEKVIVGSLSVQDLQASQSACYWLKGVRYSDIGTLAWMITLSDGLHNFIDGLAIGASFTVSVFQGISTSVAILCEEFPHELGDFVILLNAGMSIQQALFFNFLSACCCYLGLAFGILAGSHFSANWIFALAGGMFLYISLADMFPEMNEVCQEDERKGSILIPFIIQNLGLLTGFTIMVVLTMYSGQIQIG |
| 5157 | sp|P41440|S19A1\_HUMAN | MVPSSPAVEKQVPVEPGPDPELRSWRHLVCYLCFYGFMAQIRPGESFITPYLLGPDKNFTREQVTNEITPVLSYSYLAVLVPVFLLTDYLRYTPVLLLQGLSFVSVWLLLLLGHSVAHMQLMELFYSVTMAARIAYSSYIFSLVRPARYQRVAGYSRAAVLLGVFTSSVLGQLLVTVGRVSFSTLNYISLAFLTFSVVLALFLKRPKRSLFFNRDDRGRCETSASELERMNPGPGGKLGHALRVACGDSVLARMLRELGDSLRRPQLRLWSLWWVFNSAGYYLVVYYVHILWNEVDPTTNSARVYNGAADAASTLLGAITSFAAGFVKIRWARWSKLLIAGVTATQAGLVFLLAHTRHPSSIWLCYAAFVLFRGSYQFLVPIATFQIASSLSKELCALVFGVNTFFATIVKTIITFIVSDVRGLGLPVRKQFQLYSVYFLILSIIYFLGAMLDGLRHCQRGHHPRQPPAQGLRSAAEEKAAQALSVQDKGLGGLQPAQSPPLSPEDSLGAVGPASLEQRQSDPYLAQAPAPQAAEFLSPVTTPSPCTLCSAQASGPEAADETCPQLAVHPPGVSKLGLQCLPSDGVQNVNQ |
| 5158 | sp|Q9BSK2|S2533\_HUMAN | MATGGQQKENTLLHLFAGGCGGTVGAIFTCPLEVIKTRLQSSRLALRTVYYPQVHLGTISGAGMVRPTSVTPGLFQVLKSILEKEGPKSLFRGLGPNLVGVAPSRAVYFACYSKAKEQFNGIFVPNSNIVHIFSAGSAAFITNSLMNPIWMVKTRMQLEQKVRGSKQMNTLQCARYVYQTEGIRGFYRGLTASYAGISETIICFAIYESLKKYLKEAPLASSANGTEKNSTSFFGLMAAAALSKGCASCIAYPHEVIRTRLREEGTKYKSFVQTARLVFREEGYLAFYRGLFAQLIRQIPNTAIVLSTYELIVYLLEDRTQ |
| 5159 | sp|Q9H2X9|S12A5\_HUMAN | MSRRFTVTSLPPAGPARSPDPESRRHSVADPRHLPGEDVKGDGNPKESSPFINSTDTEKGKEYDGKNMALFEEEMDTSPMVSSLLSGLANYTNLPQGSREHEEAENNEGGKKKPVQAPRMGTFMGVYLPCLQNIFGVILFLRLTWVVGIAGIMESFCMVFICCSCTMLTAISMSAIATNGVVPAGGSYYMISRSLGPEFGGAVGLCFYLGTTFAGAMYILGTIEILLAYLFPAMAIFKAEDASGEAAAMLNNMRVYGTCVLTCMATVVFVGVKYVNKFALVFLGCVILSILAIYAGVIKSAFDPPNFPICLLGNRTLSRHGFDVCAKLAWEGNETVTTRLWGLFCSSRFLNATCDEYFTRNNVTEIQGIPGAASGLIKENLWSSYLTKGVIVERSGMTSVGLADGTPIDMDHPYVFSDMTSYFTLLVGIYFPSVTGIMAGSNRSGDLRDAQKSIPTGTILAIATTSAVYISSVVLFGACIEGVVLRDKFGEAVNGNLVVGTLAWPSPWVIVIGSFFSTCGAGLQSLTGAPRLLQAISRDGIVPFLQVFGHGKANGEPTWALLLTACICEIGILIASLDEVAPILSMFFLMCYMFVNLACAVQTLLRTPNWRPRFRYYHWTLSFLGMSLCLALMFICSWYYALVAMLIAGLIYKYIEYRGAEKEWGDGIRGLSLSAARYALLRLEEGPPHTKNWRPQLLVLVRVDQDQNVVHPQLLSLTSQLKAGKGLTIVGSVLEGTFLENHPQAQRAEESIRRLMEAEKVKGFCQVVISSNLRDGVSHLIQSGGLGGLQHNTVLVGWPRNWRQKEDHQTWRNFIELVRETTAGHLALLVTKNVSMFPGNPERFSEGSIDVWWIVHDGGMLMLLPFLLRHHKVWRKCKMRIFTVAQMDDNSIQMKKDLTTFLYHLRITAEVEVVEMHESDISAYTYEKTLVMEQRSQILKQMHLTKNEREREIQSITDESRGSIRRKNPANTRLRLNVPEETAGDSEEKPEEEVQLIHDQSAPSCPSSSPSPGEEPEGEGETDPEKVHLTWTKDKSVAEKNKGPSPVSSEGIKDFFSMKPEWENLNQSNVRRMHTAVRLNEVIVKKSRDAKLVLLNMPGPPRNRNGDENYMEFLEVLTEHLDRVMLVRGGGREVITIYS |
| 5160 | sp|O35874|SATT\_MOUSE | MEKSGETNGYLDGTQAEPAAGPRTPETAMGKSQRCASFFRRHALVLLTVSGVLVGAGMGAALRGLQLTRTQITYLAFPGEMLLRMLRMIILPLVVCSLVSGAASLDASSLGRLGGIAVAYFGLTTLSASALAVALAFIIKPGAGAQTLQSSSLGLENSGPPPVSKETVDSFLDLLRNLFPSNLVVAAFTTSATDYTVVTHNTSSGNVTKEKIPVVTDVEGMNILGLVLFALVLGVALKKLGPEGEDLIRFFNSFNEATMVLVSWIMWYVPIGIMFLIGSKIVEMKDIVMLVTSLGKYIFASMLGHVIHGGIVLPLVYFAFTRKNPFTFLLGLLTPFATAFATCSSSATLPSMMKCIEENNGVDKRISRFILPIGATVNMDGAAIFQCVAAVFIAQLNNVDLNAGQIFTILVTATASSVGAAGVPAGGVLTIAIILEAIGLPTHDLSLILAVDWIVDRTTTVVNVEGDALGAGILNHLNQKVVKKGEQELQEVKVEAIPNSKSEEETSPLVTHQNPAGPVAIAPELESKESVL |
| 5161 | sp|Q5I0E9|S47A1\_RAT | MEVLEEPAPGPGGADAAERRGLRRLLLSGFQEELRALLVLAGPAFLAQLMMFLISFISSVFCGHLGKLELDAVTLAIAVINVTGISVGHGLSSACDTLISQTYGSQNLKHVGVILQRGTLILLLCCFPCWALFINTEQILLLFRQDPDVSRLTQTYVMVFIPALPAAFLYTLQVKYLLNQGIVLPQVITGIAANLVNALANYLFLHQLHLGVMGSALANTISQFALAIFLFLYILWRKLHHATWGGWSWECLQDWASFLQLAIPSMLMLCIEWWAYEVGSFLSGILGMVELGAQSITYELAIIVYMIPAGFSVAANVRVGNALGAGNIDQAKKSSAISLIVTELFAVTFCVLLLGCKDLVGYIFTTDWDIVALVAQVVPIYAVSHLFEALACTCGGVLRGTGNQKVGAIVNAIGYYVIGLPIGISLMFVAKLGVIGLWSGIIICSVCQTSCFLVFIARLNWKLACQQAQVHANLKVNVALNSAVSQEPAHPVGPESHGEIMMTDLEKKDEIQLDQQMNQQQALPVHPKDSNKLSGKQLALRRGLLFLGVVLVLVGGILVRVYIRTE |
| 5162 | sp|Q0VGM9|RTEL1\_MOUSE | MPRVVLNGVTVDFPFQPYPCQQEYMTKVLECLQKKVNGILESPTGTGKTLCLLCSTLAWQQHLRDAVSSLKIAERVQGELFASRTLSSWGSAAAASGDSIECYTDIPKIIYASRTHSQLTQVIRELRNTAYRPKVCVLGSREQLCIHPEVKKQESNHMQISLCRKKVASRSCHFYNNVEAKFLEQDLATPILDIEDLVKNGSKQKMCPYYLSRNMKQQADIIFMPYNYLLDAKSRKAHSIDLKGTVVIFDEAHNVEKICEESASFDLTPRDVASGLEIINQVLEEQARVTQQGELQQEFIVDTSSSGLNMELEDIAKLKMILLRLEEAIDAVQLPGDDRGVTKPGSYIFELFAEAQITFQTKGCILESLDQIIQHLAGRTGVFTNTAGLQKLMDIIQIVFSVDPPEGSPGSLVGLGISHSYKVHIHPETSHRRAAKRSDAWSTTASRKQGKVLSYWCFSPSQSMRELVCQGVRTLILTSGTLAPLSSFALEMQIPFPVCLENPHIIDKNQLWVGIVPRGPDGVQLSSAYDKRFSEECLSSLGKALSNIARVVPHGLLVFFPSYPVMEKSLEFWQVQGLARKVEALKPLFVEPRNKGSFSEVIDAYYQQVASPASNGATFLAVCRGKASEGLDFSDMNGRGVIVTGLPYPPRMDPRVVLKMQFLDEMRGRSGVGGQCLSGQEWYQQQASRAVNQAIGRVIRHRHDYGAIFLCDHRFAYADARAQLPSWVRPYLKVYDNFGHVIRDVAQFFRVAQKTMPLPVPQAVTSSVSEGEIALKDATLSSYSLSTRKAMSLDVHVPSLRQKPIGLPAAGDSESSLCGEYEQQTFSAQQRPMGLLAALEYNEQKAGASEEQALGSSTPSLRCEKRLSTEQKGGRKKVRLVNHPEEPMAGTQAGRAKMFMVAVKQALSQANFDTFTQALQHYKSSDDFEALVASLTCLFAEDPKKHTLLKGFYQFVRPHHKQQFEDICFQLTGQRCGYQPGKRELESKLTLSEGVDRQLDPGQHLNQGQPHLSAHPTSKGHTSHCTKVGCAVEKPGQPAVSDYLSDVHKALGSASCNQLTAALRAYKQDDDLDKVVAVVAALTTAKPEHLPLLQRFGMFVRRHHKPQFLQTCADLMGLPTTGKDLELEGPRDESPTVPPELTHEDLKPGPSMSKKPEKTQSKISSFFRQRPDESVRSDDTTPKPMQLPPRLPHELMKPHRSKQ |
| 5163 | sp|Q8N695|SC5A8\_HUMAN | MDTPRGIGTFVVWDYVVFAGMLVISAAIGIYYAFAGGGQQTSKDFLMGGRRMTAVPVALSLTASFMSAVTVLGTPSEVYRFGAIFSIFAFTYFFVVVISAEVFLPVFYKLGITSTYEYLELRFNKCVRLCGTVLFIVQTILYTGIVIYAPALALNQVTGFDLWGAVVATGVVCTFYCTLGGLKAVIWTDVFQVGIMVAGFASVIIQAVVMQGGISTILNDAYDGGRLNFWNFNPNPLQRHTFWTIIIGGTFTWTSIYGVNQSQVQRYISCKSRFQAKLSLYINLVGLWAILTCSVFCGLALYSRYHDCDPWTAKKVSAPDQLMPYLVLDILQDYPGLPGLFVACAYSGTLSTVSSSINALAAVTVEDLIKPYFRSLSERSLSWISQGMSVVYGALCIGMAALASLMGALLQAALSVFGMVGGPLMGLFALGILVPFANSIGALVGLMAGFAISLWVGIGAQIYPPLPERTLPLHLDIQGCNSTYNETNLMTTTEMPFTTSVFQIYNVQRTPLMDNWYSLSYLYFSTVGTLVTLLVGILVSLSTGGRKQNLDPRYILTKEDFLSNFDIFKKKKHVLSYKSHPVEDGGTDNPAFNHIELNSDQSGKSNGTRL |
| 5164 | sp|P38982|RSSA\_CRIGR | MSGALDVLQMKEEDVLKFLAAGTHLGGTNLDFQMEQYIYKRKSDGIYIINLKRTWEKLLLAARAIVAIENPADVSVISSRNTGQRAVLKFAAATGATPIAGRFTPGTFTNQIQAAFREPRLLVVTDPRADHQPLTEASYVNLPTIALCNTDSPLRYVDIAIPCNNKGAHSVGLMWWMLAREVRRMRGTISREHPWEVMPDLYFYRDPEEIEKEEQAAAEKAVTKEEFQGEWTAPAPEFTAAQPEVADWSEGVQVPSVPIQQFPTEDWSAQPATEDWSAAPTAQATEWVGATTEWS |
| 5165 | sp|Q9ZZX1|SCE4\_YEAST | MVQRWLYSTNAKDIAVLYFMLAIFSGMAGTAMSLIIRLELAAPGSQYLHGNSQLFNVLVVGHAVLMIFFLVMPALIGGFGNYLLPLMIGATDTAFPRINNIAFWVLPMGLVCLVTSTLVESGAGTGWTVYPPLSSIQAHSGPSVDLAIFALHLTSISSLLGAINFIVTTLNMRTNGMTMHKLPLFVWSIFITAFLLLLSLPVLSAGITMLLLDRNFNTSFFEVSGGGDPILYEHLFWFFGHPEVYILIIPGFGIISHVVSTYSKKPVFGEISMVYAMASIGLLGFLVWSHHMYIVGLDADTRAYFTSATMIIAIPTGIKIFSWLMNPFSKDKNKNKNKKLIRNYQKMNNNNMMKTYLNNNNMIMMNMYKGNLYDIYPRSNRNYIQPNNINKELVVYGYNLESCVGMPTYTNIVKHMVGIPNNILYIMTGILLTDGWIDYTSKKDLDKKTIMEINCRFRLKQSMIHSEYLMYVFMLLSHYCMSYPKMKIAKVKGKSYNQLEFYTRSLPCFTILRYMFYNGRVKIVPNNLYDLLNYESLAHMIMCDGSFVKGGGLYLNLQSFTTKELIFIMNILKIKFNLNCTLHKSRNKYTIYMRVESVKRLFPMIYKYILPSMRYKFDIMLWQKKYNMIN |
| 5166 | sp|O75396|SC22B\_HUMAN | MVLLTMIARVADGLPLAASMQEDEQSGRDLQQYQSQAKQLFRKLNEQSPTRCTLEAGAMTFHYIIEQGVCDLVLCEAAFPKTLAFAYLEDLHSEFDEQHGKKVPTVSRPYSFIEFDTFIQKTKKLYIDSCARRNLGSINTELQDVQRIMVANIEEVLQRGEALSALDSKANNLSSLSKKYRQDAKYLNMHSTYAKLAAVAVFFIMLIVYVRFWWL |
| 5167 | sp|Q9M4A1|SPO12\_ARATH | MEESSGLSSMKFFSDQHLSYADILLPHEARARIEVSVLNLLRILNSPDPAISDLSLINRKRSNSCINKGILTDVSYIFLSTSFTKSSLTNAKTAKAFVRVWKVMEICFQILLQEKRVTQRELFYKLLCDSPDYFSSQIEVNRSVQDVVALLRCSRYSLGIMASSRGLVAGRLFLQEPGKEAVDCSACGSSGFAITGDLNLLDNTIMRTDARYIIIVEKHAIFHRLVEDRVFNHIPCVFITAKGYPDIATRFFLHRMSTTFPDLPILVLVDWNPAGLAILCTFKFGSIGMGLEAYRYACNVKWIGLRGDDLNLIPEESLVPLKPKDSQIAKSLLSSKILQENYIEELSLMVQTGKRAEIEALYCHGYNYLGKYIATKIVQGKYI |
| 5168 | sp|P45897|SMA4\_CAEEL | MFHPGMTSQPSTSNQMYYDPLYGAEQIVQCNPMDYHQANILCGMQYFNNSHNRYPLLPQMPPQFTNDHPYDFPNVPTISTLDEASSFNGFLIPSQPSSYNNNNISCVFTPTPCTSSQASSQPPPTPTVNPTPIPPNAGAVLTTAMDSCQQISHVLQCYQQGGEDSDFVRKAIESLVKKLKDKRIELDALITAVTSNGKQPTGCVTIQRSLDGRLQVAGRKGVPHVVYARIWRWPKVSKNELVKLVQCQTSSDHPDNICINPYHYERVVSNRITSADQSLHVENSPMKSEYLGDAGVIDSCSDWPNTPPDNNFNGGFAPDQPQLVTPIISDIPIDLNQIYVPTPPQLLDNWCSIIYYELDTPIGETFKVSARDHGKVIVDGGMDPHGENEGRLCLGALSNVHRTEASEKARIHIGRGVELTAHADGNISITSNCKIFVRSGYLDYTHGSEYSSKAHRFTPNESSFTVFDIRWAYMQMLRRSRSSNEAVRAQAAAVAGYAPMSVMPAIMPDSGVDRMRRDFCTIAISFVKAWGDVYQRKTIKETPCWIEVTLHRPLQILDQLLKNSSQFGSS |
| 5169 | sp|P84025|SMAD3\_RAT | MSSILPFTPPIVKRLLGWKKGEQNGQEEKWCEKAVKSLVKKLKKTGQLDELEKAITTQNVNTKCITIPRSLDGRLQVSHRKGLPHVIYCRLWRWPDLHSHHELRAMELCEFAFNMKKDEVCVNPYHYQRVETPVLPPVLVPRHTEIPAEFPPLDDYSHSIPENTNFPAGIEPQSNIPETPPPGYLSEDGETSDHQMNHSMDAGSPNLSPNPMSPAHNNLDLQPVTYCEPAFWCSISYYELNQRVGETFHASQPSMTVDGFTDPSNSERFCLGLLSNVNRNAAVELTRRHIGRGVRLYYIGGEVFAECLSDSAIFVQSPNCNQRYGWHPATVCKIPPGCNLKIFNNQEFAALLAQSVNQGFEAVYQLTRMCTIRMSFVKGWGAEYRRQTVTSTPCWIELHLNGPLQWLDKVLTQMGSPSIRCSSVS |
| 5170 | sp|Q9V9Y9|SPNF\_DROME | MEASAAKITPMASSMSASGSTNSPSSEKMNYALQVALQTIKERCIQLQRRVASMEEENQQLREASSRSEGAPRANEIGVTGDVLSLKAQVSELQRQKEQLEEHIGMVSNENRRLWSRLSQISKDQQLNALPSSTDSRAQQNQNLVRSKTFTQHSPNPHLRQKMLSDGIKDLSLEEIALDDFGASSEELGYPYNLQKVEETTSEPDANVDAKRCLDGLQELRREAMKQQQELRSVMTLLENRIALKPCPECAQKTIKKPEMADKSLETDDSLTSELKNYESQHNGHNGTPPSQRINIIQEKIKADAADAMEKTCPMCGKQYSSQVSFNAFREHVEMHFIDDALELESENSIERQFEFVSHAVGDF |
| 5171 | sp|Q66HL2|SRC8\_RAT | MWKASAGHAVSITQDDGGADDWETDPDFVNDVSEKEQRWGAKTVQGSGHQEHINIHKLRENVFQEHQTLKEKELETGPKASHGYGGKFGVEQDRMDKSAVGHEYQSKLSKHCSQVDSVRGFGGKFGVQMDRVDQSAVGFEYQGKTEKHASQKDYSSGFGGKYGVQADRVDKSAVGFDYQGKTEKHESQKDYSKGFGGKYGIDKDKVDKSAVGFEYQGKTEKHESQKDYVKGFGGKFGVQTDRQDKCALGWDHQEKLQLHESQKDYAKGFGGKYGVQKDRMDKNASTFEEVVQVPSAYQKTVPIEAVTSKTSNIRANFENLAKEREQEDRRKAEAERAQRMAQERQEQEEARRKLEEQARAKKQTPPASPSPQPAEDRPPSSPIYEDAAPLKAEPSYGSSEPEPEYSTEAAGLPEASNQQGLAYTSEPVYETTEVPGHYQAEDDTYDGYESDLGITAIALYDYQAAGDDEISFDPDDVITNIEMIDDGWWRGVCKGRYGLFPANYVELRQ |
| 5172 | sp|P9WKQ1|SMASE\_MYCTU | MDYAKRIGQVGALAVVLGVGAAVTTHAIGSAAPTDPSSSSTDSPVDACSPLGGSASSLAAIPGASVPQVGVRQVDPGSIPDDLLNALIDFLAAVRNGLVPIIENRTPVANPQQVSVPEGGTVGPVRFDACDPDGNRMTFAVRERGAPGGPQHGIVTVDQRTASFIYTADPGFVGTDTFSVNVSDDTSLHVHGLAGYLGPFHGHDDVATVTVFVGNTPTDTISGDFSMLTYNIAGLPFPLSSAILPRFFYTKEIGKRLNAYYVANVQEDFAYHQFLIKKSKMPSQTPPEPPTLLWPIGVPFSDGLNTLSEFKVQRLDRQTWYECTSDNCLTLKGFTYSQMRLPGGDTVDVYNLHTNTGGGPTTNANLAQVANYIQQNSAGRAVIVTGDFNARYSDDQSALLQFAQVNGLTDAWVQVEHGPTTPPFAPTCMVGNECELLDKIFYRSGQGVTLQAVSYGNEAPKFFNSKGEPLSDHSPAVVGFHYVADNVAVR |
| 5173 | sp|P36334|SPIKE\_CVHOC | MFLILLISLPTAFAVIGDLKCTSDNINDKDTGPPPISTDTVDVTNGLGTYYVLDRVYLNTTLFLNGYYPTSGSTYRNMALKGSVLLSRLWFKPPFLSDFINGIFAKVKNTKVIKDRVMYSEFPAITIGSTFVNTSYSVVVQPRTINSTQDGDNKLQGLLEVSVCQYNMCEYPQTICHPNLGNHRKELWHLDTGVVSCLYKRNFTYDVNADYLYFHFYQEGGTFYAYFTDTGVVTKFLFNVYLGMALSHYYVMPLTCNSKLTLEYWVTPLTSRQYLLAFNQDGIIFNAEDCMSDFMSEIKCKTQSIAPPTGVYELNGYTVQPIADVYRRKPNLPNCNIEAWLNDKSVPSPLNWERKTFSNCNFNMSSLMSFIQADSFTCNNIDAAKIYGMCFSSITIDKFAIPNGRKVDLQLGNLGYLQSFNYRIDTTATSCQLYYNLPAANVSVSRFNPSTWNKRFGFIEDSVFKPRPAGVLTNHDVVYAQHCFKAPKNFCPCKLNGSCVGSGPGKNNGIGTCPAGTNYLTCDNLCTPDPITFTGTYKCPQTKSLVGIGEHCSGLAVKSDYCGGNSCTCRPQAFLGWSADSCLQGDKCNIFANFILHDVNSGLTCSTDLQKANTDIILGVCVNYDLYGILGQGIFVEVNATYYNSWQNLLYDSNGNLYGFRDYIINRTFMIRSCYSGRVSAAFHANSSEPALLFRNIKCNYVFNNSLTRQLQPINYFDSYLGCVVNAYNSTAISVQTCDLTVGSGYCVDYSKNRRSRGAITTGYRFTNFEPFTVNSVNDSLEPVGGLYEIQIPSEFTIGNMVEFIQTSSPKVTIDCAAFVCGDYAACKSQLVEYGSFCDNINAILTEVNELLDTTQLQVANSLMNGVTLSTKLKDGVNFNVDDINFSPVLGCLGSECSKASSRSAIEDLLFDKVKLSDVGFVEAYNNCTGGAEIRDLICVQSYKGIKVLPPLLSENQISGYTLAATSASLFPPWTAAAGVPFYLNVQYRINGLGVTMDVLSQNQKLIANAFNNALYAIQEGFDATNSALVKIQAVVNANAEALNNLLQQLSNRFGAISASLQEILSRLDALEAEAQIDRLINGRLTALNAYVSQQLSDSTLVKFSAAQAMEKVNECVKSQSSRINFCGNGNHIISLVQNAPYGLYFIHFSYVPTKYVTARVSPGLCIAGDRGIAPKSGYFVNVNNTWMYTGSGYYYPEPITENNVVVMSTCAVNYTKAPYVMLNTSIPNLPDFKEELDQWFKNQTSVAPDLSLDYINVTFLDLQVEMNRLQEAIKVLNQSYINLKDIGTYEYYVKWPWYVWLLICLAGVAMLVLLFFICCCTGCGTSCFKKCGGCCDDYTGYQELVIKTSHDD |
| 5174 | sp|A1X283|SPD2B\_HUMAN | MPPRRSIVEVKVLDVQKRRVPNKHYVYIIRVTWSSGSTEAIYRRYSKFFDLQMQMLDKFPMEGGQKDPKQRIIPFLPGKILFRRSHIRDVAVKRLIPIDEYCKALIQLPPYISQCDEVLQFFETRPEDLNPPKEEHIGKKKSGGDQTSVDPMVLEQYVVVANYQKQESSEISLSVGQVVDIIEKNESGWWFVSTAEEQGWVPATCLEGQDGVQDEFSLQPEEEEKYTVIYPYTARDQDEMNLERGAVVEVIQKNLEGWWKIRYQGKEGWAPASYLKKNSGEPLPPKPGPGSPSHPGALDLDGVSRQQNAVGREKELLSSQRDGRFEGRPVPDGDAKQRSPKMRQRPPPRRDMTIPRGLNLPKPPIPPQVEEEYYTIAEFQTTIPDGISFQAGLKVEVIEKNLSGWWYIQIEDKEGWAPATFIDKYKKTSNASRPNFLAPLPHEVTQLRLGEAAALENNTGSEATGPSRPLPDAPHGVMDSGLPWSKDWKGSKDVLRKASSDMSASAGYEEISDPDMEEKPSLPPRKESIIKSEGELLERERERQRTEQLRGPTPKPPGVILPMMPAKHIPPARDSRRPEPKPDKSRLFQLKNDMGLECGHKVLAKEVKKPNLRPISKSKTDLPEEKPDATPQNPFLKSRPQVRPKPAPSPKTEPPQGEDQVDICNLRSKLRPAKSQDKSLLDGEGPQAVGGQDVAFSRSFLPGEGPGRAQDRTGKQDGLSPKEISCRAPPRPAKTTDPVSKSVPVPLQEAPQQRPVVPPRRPPPPKKTSSSSRPLPEVRGPQCEGHESRAAPTPGRALLVPPKAKPFLSNSLGGQDDTRGKGSLGPWGTGKIGENREKAAAASVPNADGLKDSLYVAVADFEGDKDTSSFQEGTVFEVREKNSSGWWFCQVLSGAPSWEGWIPSNYLRKKP |
| 5175 | sp|P50453|SPB9\_HUMAN | METLSNASGTFAIRLLKILCQDNPSHNVFCSPVSISSALAMVLLGAKGNTATQMAQALSLNTEEDIHRAFQSLLTEVNKAGTQYLLRTANRLFGEKTCQFLSTFKESCLQFYHAELKELSFIRAAEESRKHINTWVSKKTEGKIEELLPGSSIDAETRLVLVNAIYFKGKWNEPFDETYTREMPFKINQEEQRPVQMMYQEATFKLAHVGEVRAQLLELPYARKELSLLVLLPDDGVELSTVEKSLTFEKLTAWTKPDCMKSTEVEVLLPKFKLQEDYDMESVLRHLGIVDAFQQGKADLSAMSAERDLCLSKFVHKSFVEVNEEGTEAAAASSCFVVAECCMESGPRFCADHPFLFFIRHNRANSILFCGRFSSP |
| 5176 | sp|Q8IUH8|SPP2C\_HUMAN | MACLGFLLPVGFLLLISTVAGGKYGVAHVVSENWSKDYCILFSSDYITLPRDLHHAPLLPLYDGTKAPWCPGEDSPHQAQLRSPSQRPLRQTTAMVMRGNCSFHTKGWLAQGQGAHGLLIVSRVSDQQCSDTTLAPQDPRQPLADLTIPVAMLHYADMLDILSHTRGEAVVRVAMYAPPEPIIDYNMLVIFILAVGTVAAGGYWAGLTEANRLQRRRARRGGGSGGHHQLQEAAAAEGAQKEDNEDIPVDFTPAMTGVVVTLSCSLMLLLYFFYDHFVYVTIGIFGLGAGIGLYSCLSPLVCRLSLRQYQRPPHSLWASLPLPLLLLASLCATVIIFWVAYRNEDRWAWLLQDTLGISYCLFVLHRVRLPTLKNCSSFLLALLAFDVFFVFVTPFFTKTGESIMAQVALGPAESSSHERLPMVLKVPRLRVSALTLCSQPFSILGFGDIVVPGFLVAYCCRFDVQVCSRQIYFVACTVAYAVGLLVTFMAMVLMQMGQPALLYLVSSTLLTSLAVAACRQELSLFWTGQGRAKMCGLGCAPSAGSRQKQEGAADAHTASTLERGTSRGAGDLDSNPGEDTTEIVTISENEATNPEDRSDSSEGWSDAHLDPNELPFIPPGASEELMPLMPMAMLIPLMPLMPPPSELGHVHAQAQAHETGLPWAGLHKRKGLKVRKSMSTQAPL |
| 5177 | sp|Q9JJF9|SPP2A\_MOUSE | MGLLHSLHAPAAALLWSCLLGLAAAQEAILHASTNGVSSLSKDYCMYYNNNWTRLPSSLENATSLSLMNLTGTALCHLSDIPPDGIRNKAVVVHWGPCHFLEKARIAQEGGAAALLIANNSVLIPSSRNKSTFQNVTVLIAVITQKDFKDMKETLGDDITVKMYSPSWPNFDYTLVVIFVIAVFTVALGGYWSGLIELENMKSVEDAEDRETRKKKDDYLTFSPLTVVVFVVICCIMIVLLYFFYRWLVYVMIAIFCIASSMSLYNCLSALIHRMPCGQCTILCCGKNIKVSLIFLSGLCISVAVVWAVFRNEDRWAWILQDILGIAFCLNLIKTMKLPNFMSCVILLGLLLIYDVFFVFITPFITKNGESIMVELAAGPFENAEKLPVVIRVPKLMGYSVMSVCSVPVSVLGFGDIIVPGLLIAYCRRFDVQTGSSIYYISSTIAYAVGMIITFVVLMVMKTGQPALLYLVPCTLITVSVVAWSRKEMKKFWKGSSYQVMDHLDYSTNEENPVTTDEQIVQQ |
| 5178 | sp|P01246|SOMA\_BOVIN | MMAAGPRTSLLLAFALLCLPWTQVVGAFPAMSLSGLFANAVLRAQHLHQLAADTFKEFERTYIPEGQRYSIQNTQVAFCFSETIPAPTGKNEAQQKSDLELLRISLLLIQSWLGPLQFLSRVFTNSLVFGTSDRVYEKLKDLEEGILALMRELEDGTPRAGQILKQTYDKFDTNMRSDDALLKNYGLLSCFRKDLHKTETYLRVMKCRRFGEASCAF |
| 5179 | sp|P53692|SMC6\_SCHPO | MTTELTNVSLEEAITEKTSENRRKRDSDVLQTEEVDLSNVKRIRASRNQDNRPERQSRLQRSSSLIEQVRGNEDGENDVLNQTRETNSNFDNRVGVIECIHLVNFMCHDSLKINFGPRINFVIGHNGSGKSAILTGLTICLGAKASNTNRAPNMKSLVKQGKNYARISVTISNRGFEAYQPEIYGKSITIERTIRREGSSEYRLRSFNGTVISTKRDELDNICDHMGLQIDNPMNILTQDTARQFLGNSSPKEKYQLFMKGIQLKQLEENYSLIEQSLINTKNVLGNKKTGVSYLAKKEEEYKLLWEQSRETENLHNLLEQKKGEMVWAQVVEVEKELLLAEKEFQHAEVKLSEAKENLESIVTNQSDIDGKISSKEEVIGRAKGETDTTKSKFEDIVKTFDGYRSEMNDVDIQKRDIQNSINAAKSCLDVYREQLNTERARENNLGGSQIEKRANESNNLQREIADLSEQIVELESKRNDLHSALLEMGGNLTSLLTKKDSIANKISDQSEHLKVLEDVQRDKVSAFGKNMPQLLKLITRETRFQHPPKGPMGKYMTVKEQKWHLIIERILGNVINGFIVRSHHDQLILKELMRQSNCHATVVVGKYDPFDYSSGEPDSQYPTVLKIIKFDDDEVLHTLINHLGIEKMLLIEDRREAEAYMKRGIANVTQCYALDPRNRGYGFRIVSTQRSSGISKVTPWNRPPRIGFSSSTSIEAEKKILDDLKKQYNFASNQLNEAKIEQAKFKRDEQLLVEKIEGIKKRILLKRREVNSLESQELSVLDTEKIQTLERRISETEKELESYAGQLQDAKNEEHRIRDNQRPVIEEIRIYREKIQTETQRLSSLQTELSRLRDEKRNSEVDIERHRQTVESCTNILREKEAKKVQCAQVVADYTAKANTRCERVPVQLSPAELDNEIERLQMQIAEWRNRTGVSVEQAAEDYLNAKEKHDQAKVLVARLTQLLQALEETLRRRNEMWTKFRKLITLRTKELFELYLSQRNFTGKLVIKHQEEFLEPRVYPANRNLATAHNRHEKSKVSVQGLSGGEKSFATICMLLSIWEAMSCPLRCLDEFDVFMDAVNRLVSIKMMVDSAKDSSDKQFIFITPQDMGQIGLDKDVVVFRLSDPVVSSSALPPSTAP |
| 5180 | sp|P21276|SODF1\_ARATH | MAASSAVTANYVLKPPPFALDALEPHMSKQTLEFHWGKHHRAYVDNLKKQVLGTELEGKPLEHIIHSTYNNGDLLPAFNNAAQAWNHEFFWESMKPGGGGKPSGELLALLERDFTSYEKFYEEFNAAAATQFGAGWAWLAYSNEKLKVVKTPNAVNPLVLGSFPLLTIDVWEHAYYLDFQNRRPDYIKTFMTNLVSWEAVSARLEAAKAASA |
| 5181 | sp|Q9WVC1|SLIT2\_RAT | MSGIGWQTLSLSLALVLSILNKVAPHACPAQCSCSGSTVDCHGLALRIVPRNIPRNTERLDLNGNNITRITKTDFAGLRHLRILQLMENKISTIERGAFHDLKELERLRLNRNNLQLFPELLFLGTAKLYRLDLSENQIQAIPRKAFRGAVDIKNLQLDYNQISCIEDGAFRALRDLEVLTLNNNNITRLSVASFNHMPKLRTFRLHSNNLYCDCHLAWLSDWLRQRPRVGLYTQCMGPSHLRGHNVAEVQKREFVCSDEEEGHQSFMAPSCSVLHCPIACTCSNNIVDCRGKGLTEIPTNLPETITEIRLEQNSIRVIPPGAFSPYKKLRRLDLSNNQISELAPDAFQGLRSLNSLVLYGNKITELPKSLFEGLFSLQLLLLNANKINCLRVDAFQDLHNLNLLSLYDNKLQTVAKGTFSALRAIQTMHLAQNPFICDCHLKWLADYLHTNPIETSGARCTSPRRLANKRIGQIKSKKFRCSGTEDYRSKLSGDCFADLACPEKCRCEGTTVDCSNQKLNKIPDHIPQYTAELRLNNNEFTVLEATGIFKKLPQLRKINLSNNKITDIEEGAFEGASGVNEILLTSNRLENVQHKMFKGLESLKTLMLRSNRISCVGNDSFTGLGSVRLLSLYDNQITTVAPGAFGTLHSLSTLNLLANPFNCNCHLAWLGEWLRRKRIVTGNPRCQKPYFLKEIPIQDVAIQDFTCDDGNDDNSCSPLSRCPSECTCLDTVVRCSNKGLKVLPKGIPRDVTELYLDGNQFTLVP |
| 5182 | sp|O00267|SPT5H\_HUMAN | MSDSEDSNFSEEEDSERSSDGEEAEVDEERRSAAGSEKEEEPEDEEEEEEEEEYDEEEEEEDDDRPPKKPRHGGFILDEADVDDEYEDEDQWEDGAEDILEKEEIEASNIDNVVLDEDRSGARRLQNLWRDQREEELGEYYMKKYAKSSVGETVYGGSDELSDDITQQQLLPGVKDPNLWTVKCKIGEERATAISLMRKFIAYQFTDTPLQIKSVVAPEHVKGYIYVEAYKQTHVKQAIEGVGNLRLGYWNQQMVPIKEMTDVLKVVKEVANLKPKSWVRLKRGIYKDDIAQVDYVEPSQNTISLKMIPRIDYDRIKARMSLKDWFAKRKKFKRPPQRLFDAEKIRSLGGDVASDGDFLIFEGNRYSRKGFLFKSFAMSAVITEGVKPTLSELEKFEDQPEGIDLEVVTESTGKEREHNFQPGDNVEVCEGELINLQGKILSVDGNKITIMPKHEDLKDMLEFPAQELRKYFKMGDHVKVIAGRFEGDTGLIVRVEENFVILFSDLTMHELKVLPRDLQLCSETASGVDVGGQHEWGELVQLDPQTVGVIVRLERETFQVLNMYGKVVTVRHQAVTRKKDNRFAVALDSEQNNIHVKDIVKVIDGPHSGREGEIRHLFRSFAFLHCKKLVENGGMFVCKTRHLVLAGGSKPRDVTNFTVGGFAPMSPRISSPMHPSAGGQRGGFGSPGGGSGGMSRGRGRRDNELIGQTVRISQGPYKGYIGVVKDATESTARVELHSTCQTISVDRQRLTTVGSRRPGGMTSTYGRTPMYGSQTPMYGSGSRTPMYGSQTPLQDGSRTPHYGSQTPLHDGSRTPAQSGAWDPNNPNTPSRAEEEYEYAFDDEPTPSPQAYGGTPNPQTPGYPDPSSPQVNPQYNPQTPGTPAMYNTDQFSPYAAPSPQGSYQPSPSPQSYHQVAPSPAGYQNTHSPASYHPTPSPMAYQASPSPSPVGYSPMTPGAPSPGGYNPHTPGSGIEQNSSDWVTTDIQVKVRDTYLDTQVVGQTGVIRSVTGGMCSVYLKDSEKVVSISSEHLEPITPTKNNKVKVILGEDREATGVLLSIDGEDGIVRMDLDEQLKILNLRFLGKLLEA |
| 5183 | sp|Q7Z6B7|SRGP1\_HUMAN | MSTPSRFKKDKEIIAEYESQVKEIRAQLVEQQKCLEQQTEMRVQLLQDLQDFFRKKAEIETEYSRNLEKLAERFMAKTRSTKDHQQYKKDQNLLSPVNCWYLLLNQVRRESKDHATLSDIYLNNVIMRFMQISEDSTRMFKKSKEIAFQLHEDLMKVLNELYTVMKTYHMYHAESISAESKLKEAEKQEEKQIGRSGDPVFHIRLEERHQRRSSVKKIEKMKEKRQAKYSENKLKSIKARNEYLLTLEATNASVFKYYIHDLSDLIDCCDLGYHASLNRALRTYLSAEYNLETSRHEGLDIIENAVDNLEPRSDKQRFMEMYPAAFCPPMKFEFQSHMGDEVCQVSAQQPVQAELMLRYQQLQSRLATLKIENEEVKKTTEATLQTIQDMVTIEDYDVSECFQHSRSTESVKSTVSETYLSKPSIAKRRANQQETEQFYFMKLREYLEGSNLITKLQAKHDLLQRTLGEGHRAEYMTTRPPNVPPKPQKHRKSRPRSQYNTKLFNGDLETFVKDSGQVIPLIVESCIRFINLYGLQHQGIFRVSGSQVEVNDIKNSFERGENPLADDQSNHDINSVAGVLKLYFRGLENPLFPKERFNDLISCIRIDNLYERALHIRKLLLTLPRSVLIVMRYLFAFLNHLSQYSDENMMDPYNLAICFGPTLMPVPEIQDQVSCQAHVNEIIKTIIIHHETIFPDAKELDGPVYEKCMAGDDYCDSPYSEHGTLEEVDQDAGTEPHTSEDECEPIEAIAKFDYVGRSARELSFKKGASLLLYHRASEDWWEGRHNGIDGLVPHQYIVVQDMDDTFSDTLSQKADSEASSGPVTEDKSSSKDMNSPTDRHPDGYLARQRKRGEPPPPVRRPGRTSDGHCPLHPPHALSNSSVDLGSPSLASHPRGLLQNRGLNNDSPERRRRPGHGSLTNISRHDSLKKIDSPPIRRSTSSGQYTGFNDHKPLDPETIAQDIEETMNTALNELRELERQSTAKHAPDVVLDTLEQVKNSPTPATSTESLSPLHNVALRSSEPQIRRSTSSSSDTMSTFKPMVAPRMGVQLKPPALRPKPAVLPKTNPTIGPAPPPQGPTDKSCTM |
| 5184 | sp|Q9QY31|SNAI3\_MOUSE | MPRSFLVKTHSSHRVPNYGKLETLREANGSCSACKELAGSRHLPDEEAPCNPSDPLQPWDSTSAVACISLPLLPNHRETLGVSGPEPQETSWVGPRAAQAPSVTLKDSFTLPPLLVLPTRWPPILGPDGALNEHLRAEGTSRVPGSFECIHCHRPYHTLAGLARHQQLHCHLPTGRAFTCRYCDKEYASLGALKMHIRTHTLPCICKVCGKAFSRPWLLQGHIRTHTGEKPYTCSHCSRAFADRSNLRAHLQTHVGTKKYRCAVCPKAFSRMSLLARHEEAGCCPGP |
| 5185 | sp|O43623|SNAI2\_HUMAN | MPRSFLVKKHFNASKKPNYSELDTHTVIISPYLYESYSMPVIPQPEILSSGAYSPITVWTTAAPFHAQLPNGLSPLSGYSSSLGRVSPPPPSDTSSKDHSGSESPISDEEERLQSKLSDPHAIEAEKFQCNLCNKTYSTFSGLAKHKQLHCDAQSRKSFSCKYCDKEYVSLGALKMHIRTHTLPCVCKICGKAFSRPWLLQGHIRTHTGEKPFSCPHCNRAFADRSNLRAHLQTHSDVKKYQCKNCSKTFSRMSLLHKHEESGCCVAH |
| 5186 | sp|Q02793|SKI8\_YEAST | MSKVFIATANAGKAHDADIFSVSACNSFTVSCSGDGYLKVWDNKLLDNENPKDKSYSHFVHKSGLHHVDVLQAIERDAFELCLVATTSFSGDLLFYRITREDETKKVIFEKLDLLDSDMKKHSFWALKWGASNDRLLSHRLVATDVKGTTYIWKFHPFADESNSLTLNWSPTLELQGTVESPMTPSQFATSVDISERGLIATGFNNGTVQISELSTLRPLYNFESQHSMINNSNSIRSVKFSPQGSLLAIAHDSNSFGCITLYETEFGERIGSLSVPTHSSQASLGEFAHSSWVMSLSFNDSGETLCSAGWDGKLRFWDVKTKERITTLNMHCDDIEIEEDILAVDEHGDSLAEPGVFDVKFLKKGWRSGMGADLNESLCCVCLDRSIRWFREAGGK |
| 5187 | sp|G3V7P1|STX12\_RAT | MSYGPLDMYRNPGPSGPQPRDFNSIIQTCSGNIQRISQATAQIKNLMSQLGTKQDSSKLQENLQQFQHSTNQLAKETNELLKELGSLPLPLSASEQRQQKLQKERLMNDFSSALNNFQVVQRKVSEKEKESIARARAGSRLSAEDRQREEQLVSFDSHEEWNQMQSQEEEAAITEQDLELIKERETAIQQLEADILDVNQIFKDLAMMIHDQGDLIDSIEANVESSEVHVERASDQLQRAAYYQKKSRKKMCILVLVLSVIVTVLVVVIWVASK |
| 5188 | sp|Q80VJ2|SRA1\_MOUSE | MMRCPAGGAEVEMAELYVKPGNKERGWNDPPQFSYGLQTQTGGPKRTPLTKRVAAPQDGSPRAPETSGPPPVDHPPPSSKASRPPPMGSCPATGVEPPSSPVIESETLIEDVLRPLEQALEDCHGHTKKQVCDDISRRLALLREQWAGGKLSIPVKKRMALLVQELLHHQWDAADDIHRSLMVDHVTEVSQWMVGVKRLIAEKKSLSSEETKEEKFTVEPENQTIPGFQQPS |
| 5189 | sp|P46675|STU2\_YEAST | MSGEEEVDYTTLPLEERLTYKLWKARLEAYKELNQLFRNSVGDISRDDNIQIYWRDPTLFAQYITDSNVVAQEQAIVALNSLIDAFASSSLKNAHNITLISTWTPLLVEKGLTSSRATTKTQSMSCILSLCGLDTSITQSVELVIPFFEKKLPKLIAAAANCVYELMAAFGLTNVNVQTFLPELLKHVPQLAGHGDRNVRSQTMNLIVEIYKVTGNNSDLLEEILFKKLKPIQVKDLHKLFAKVGDEPSSSKMLFEWEKRELEKKRSQEEEARKRKSILSNDEGEYQIDKDGDTLMGMETDMPPSKQQSGVQIDTFSMLPEETILDKLPKDFQERITSSKWKDRVEALEEFWDSVLSQTKKLKSTSQNYSNLLGIYGHIIQKDANIQAVALAAQSVELICDKLKTPGFSKDYVSLVFTPLLDRTKEKKPSVIEAIRKALLTICKYYDPLASSGRNEDMLKDILEHMKHKTPQIRMECTQLFNASMKEEKDGYSTLQRYLKDEVVPIVIQIVNDTQPAIRTIGFESFAILIKIFGMNTFVKTLEHLDNLKRKKIEETVKTLPNFSIASGSTHSTIETNKQTGPMENKFLLKKSSVLPSKRVASSPLRNDNKSKVNPIGSVASASKPSMVAANNKSRVLLTSKSLATPKNVVANSTDKNEKLIEEYKYRLQKLQNDEMIWTKERQSLLEKMNNTENYKIEMIKENEMLREQLKEAQSKLNEKNIQLRSKEIDVNKLSDRVLSLENELRNMEIELDRNKKRNDTNLQSMGTISSYSIPSSTVSSNYGVKSLSSALPFKEEEDVRRKEDVNYERRSSESIGDLPHRVNSLNIRPYRKNGTGVSSVSDDLDIDFNDSFASEESYKRAAAVTSTLKARIEKMKAKSRREGTTRT |
| 5190 | sp|Q8NHG7|SVIP\_HUMAN | MGLCFPCPGESAPPTPDLEEKRAKLAEAAERRQKEAASRGILDVQSVQEKRKKKEKIEKQIATSGPPPEGGLRWTVS |
| 5191 | sp|O35423|SPYA\_MOUSE | MFRMLAKASVTLGSRAAGWVRTMGSYQLLVPPPEALSKPLSVPTRLLLGPGPSNLAPRVLAAGSLRMIGHMQKEMLQIMEEIKQGIQYVFQTRNPLTLVVSGSGHCAMETALFNLLEPGDSFLTGTNGIWGMRAAEIADRIGARVHQMIKKPGEHYTLQEVEEGLAQHKPVLLFLVHGESSTGVVQPLDGFGELCHRYQCLLLVDSVASLGGVPIYMDQQGIDIMYSSSQKVLNAPPGISLISFNDKAKYKVYSRKTKPVSFYTDITYLAKLWGCEGETRVIHHTTPVTSLYCLRESLALIAEQGLENCWRRHREATAHLHKHLQEMGLKFFVKDPEIRLPTITTVTVPAGYNWRDIVSYVLDHFSIEISGGLGPTEERVLRIGLLGYNATTENVDRVAEALREALQHCPKNKL |
| 5192 | sp|G8JZS6|SUSF\_BACTN | MKKHLIYTGMFLAAIGFSACNEDFKDWADPQSNPQEESAGQLTATFTAGKDASIVMDAATADSVEIAKLSSTTAEEGSKIAVNSLTLNENHTIPFSMTEDHVFKVALAQLDSVTQEAYKSRASVVRELKISINASAVTPSGEGIQLVGNEVSITLQPATTPAVDPDGYYIVGDFTGWDGNSAQQMKKDALDENLYILEAEIESTSNFKIFPASAINGNDIDWTKALGSSVDGDDSGDNFVSWTNAGAINTALDGKIKISFDAFNYRFTVKDNSAPTELYMTGSAYNWGTPAGDPNAWKALVPVNGTKGTFWGIFYFAANDQVKFAPQANWGNDFGFVDAISQESKDLAGLSDEGGNLKVGIAGWYLVYVSVIGDDKVIEFEKPNVYLMGDTSYNGWDAQLVEQDLFTVPGTADGEFVSPAFLKDGAVRICVNPKAVSAGDWWKTEFIIFDGQIAYRGNGGDQAAVQGKTGQKVYLNFGNGTGRIE |
| 5193 | sp|O14662|STX16\_HUMAN | MATRRLTDAFLLLRNNSIQNRQLLAEQVSSHITSSPLHSRSIAAELDELADDRMALVSGISLDPEAAIGVTKRPPPKWVDGVDEIQYDVGRIKQKMKELASLHDKHLNRPTLDDSSEEEHAIEITTQEITQLFHRCQRAVQALPSRARACSEQEGRLLGNVVASLAQALQELSTSFRHAQSGYLKRMKNREERSQHFFDTSVPLMDDGDDNTLYHRGFTEDQLVLVEQNTLMVEEREREIRQIVQSISDLNEIFRDLGAMIVEQGTVLDRIDYNVEQSCIKTEDGLKQLHKAEQYQKKNRKMLVILILFVIIIVLIVVLVGVKSR |
| 5194 | sp|P42231|STA5A\_SHEEP | MAGWIQAQQLQGDALRQMQVLYGQHFPIEVRHYLAQWIESQPWDAIDLDNPQDRAQVTQLLEGLVQELQKKAEHQVGEDGFLLKIKLGHYVHVSSRTRTTAAPWSWLRCIRHILYNEQRLVREATNGNSSAGILVDAMSQKHLQINQTFEELRLVTQDTENELKKLQQTQEYFIIQYQESLRIQAQFAQLAQLNPQERLSRETALQQKQVSLEAWLQREAQTLQQYRVELAEKHQKTLQLLRKQQTIILDDELIQWKRRHDWRGMEAPPRSLDVLQSWCEKLAEIIWQNRQQIRRAEHLCQQLPIPGPVEEMLAEVNATITDIISALVTSTFIIEKQPPQVLKTQTKFAATVRLLVGGKLNVHMNPPQVKATIISEQQAKSLLKNENTRNECSGEILNNCCVMEYHQRTGTLSAHFRNMSLKRIKRADRRGAESVTEEKFTVLFESQFSVGSNELVFQVKTLSLPVVVIVHGSQDHNATATVLWDNAFAEPGRVPFAVPDKVLWPQLCEALNMKFKAEVQSNRGLTKENLLFLAQKLFNNSSSHLEDYNGMSVSWSQFNRENLPGWNYTFWQWFDGVMEVLKKHHKPHWNDGAILGFVNKQQAHDLLINKPDGTFLLRFSDSEIGGITIAWKFDSPDRNLWNLKPFTTREGSIRSLADRLGDLNYLIYVFPDRPKDEVFSKYYTPVLAKAVDGYVKPQIKQVVPEFVSASADSAGSSATYMDQAPSPAVCPQPHYNMYPQNPDPVLDQDGEFDLDETMDVARHVEELLRRPNGQSGPLSPPPAGLFTPARGSLS |
| 5195 | sp|Q8K1E0|STX5\_MOUSE | MIPRKRYGSKNTDQGVYLGLSKTQVLSPATAISSSSDSTPLPTPVALVPSPPDTMSCRDRTQEFQSACKSLQSRQNGIQTSKPALHAARQCSEFTLMARRIGKDLSNTFAKLEKLTILAKRKSLFDDKAVEIEELTYIIKQDINSLNKQIAQLQDFVRAKGSQSGRHLQTHSNTIVVSLQSKLASMSNDFKSVLEVRTENLKQQRNRREQFSRAPVSALPLAPNNLGGGPIILGAESRASRDVAIDMMDPRTSQQLQLIDEQDSYIQSRADTMQNIESTIVELGSIFQQLAHMVKEQEETIQRIDENVLGAQLDVEAAHSEILKYFQSVTSNRWLMVKIFLILIVFFIIFVVFLA |
| 5196 | sp|P29083|T2EA\_HUMAN | MADPDVLTEVPAALKRLAKYVIRGFYGIEHALALDILIRNSCVKEEDMLELLKFDRKQLRSVLNNLKGDKFIKCRMRVETAADGKTTRHNYYFINYRTLVNVVKYKLDHMRRRIETDERDSTNRASFKCPVCSSTFTDLEANQLFDPMTGTFRCTFCHTEVEEDESAMPKKDARTLLARFNEQIEPIYALLRETEDVNLAYEILEPEPTEIPALKQSKDHAATTAGAASLAGGHHREAWATKGPSYEDLYTQNVVINMDDQEDLHRASLEGKSAKERPIWLRESTVQGAYGSEDMKEGGIDMDAFQEREEGHAGPDDNEEVMRALLIHEKKTSSAMAGSVGAAAPVTAANGSDSESETSESDDDSPPRPAAVAVHKREEDEEEDDEFEEVADDPIVMVAGRPFSYSEVSQRPELVAQMTPEEKEAYIAMGQRMFEDLFE |
| 5197 | sp|Q9SJV5|TATC\_ARATH | MSSTSTSSALIHHFRLTTRNLGSPTKQRCPYAVTFCNSWREAGLRYSVTQRRSKGFGPVSALNDDDSPTETTPGVGSAVEDRPPDSSEDRSSSVYEFLYPRKEELPDDKEMTIFDHLEELRERIFVSVLAVGAAILGCFAFSKDLIVFLEAPVKTQGVRFLQLAPGEFFFTTLKVSGYCGLLLGSPVILYEIIAFVLPGLTRAERRFLGPIVFGSSLLFYAGLAFSYWVLTPAALNFFVNYAEGVVESLWSIDQYFEFVLVLMFSTGLSFQVPVIQLLLGQVGVVSGDQMLSIWRYVVVGAVVAAAVVTPSTDPVTQMLLATPLLGLYLGGAWMVKLTGR |
| 5198 | sp|Q05546|TENR\_RAT | MGIEGETVVLKNMLIGVNLILLGSMLKPSECRLEVTTERVQRQTVEEEGGASSYNTSSKEQPMVFNHVYNINVPLESLCSSGLEASAEQDVSAEDDTLAEYTGQTSDHESQVTFTHKINLPKKACPCASSAQVLQELLSRIEMLEREVSVLRDQCNTNCCQESAATGQLDYVPHCSGHGNFSFESCGCICNEGWFGKNCSEPYCPLGCSSRGVCVDGQCICDSEYSGDDCSELRCPTDCSSRGLCVDGECVCEEPYTGEDCRELRCPGDCSGKGQCANGTCLCQEGYAGEDCSQRRCLNACSGRGHCQEGLCICEEGYQGPDCSAVTPPEDLRVAGISDRSIELEWDGPMAVTEYVISYQPSLGGLQLQQRVPGDWSGVTITELEPGLTYNISVYAVISNILSLPITAKVATHLSTPQGLQFKTITETTVEVQWEPFSFSFDGWEISFTPKNNEGGVIAQLPSDVTSFNQTGLKPGEEYIVNVVALKEQARGPPTSASVSTVIDGPTQILVRDVSDTVAFVEWTPPRAKVDFILLKYGLVGGEGGKTTFRLQPPLSQYSVQALRPGSRYEVSISAVRGTNESDASSTQFTTEIDAPKNLRVGSRTATSLDLEWDNSEAEAQEYKVVYSTLAGEQYHEVLVPKGIGPTTKTTLTDLVPGTEYGVGISAVMNSKQSIPATMNARTELDSPRDLMVTASSETSISLIWTKASGPIDHYRITFTPSSGISSEVTVPRDRTSYTLTDLEPGAEYIISITAERGRQQSLESTVDAFTGFRPISHLHFSHVTSSSVNITWSDPSPPADRLILNYSPRDEEEEMMEVLLDATKRHAVLMGLQPATEYIVNLVAVHGTVTSEPIVGSITTGIDPPKNITISNVTKDSLTVSWSPPVAPFDYYEYPIDHPSGRLDSSVVPNTVTEFTITRLYPASQYEISLNSVRGREESERICTLVHTAMDSPMDLIATNITPTEALLQWKAPMGEVENYVIVLTHFAMAGETILVDGVSEEFQLVDLLPRTHYTVTMYATSGPLVSGTIATNFSTLLDPPANLTASEVTRQSALISWQPPRAAIENYVLTYKSTDGSRKELIVDAEDTWIRLEGLSENTDYTVLLQAAQEATRSSLTSTIFTTGGRVFSHPQDCAQHLMNGDTLSGVYTIFLNGELSHKLQVYCDMTTDGGGWIVFQRRQNGQTDFFRKWADYRVGFGNLEDEFWLGLDNYHRITAQGRYELRVDMRDGQEAVFAYYDKFAVEDSRSLYKLRIGGYNGTAGDSLSYHQGRPFSTEDRDNDVAVTNCAMSYKGAWWYKNCHRTNLNGKYGESRHSQGINWYHWKGHEFSIPFVEMKMRPYIHRLTAGRKRRALKF |
| 5199 | sp|Q9Y9L0|TDXH\_AERPE | MPGSIPLIGERFPEMEVTTDHGVIKLPDHYVSQGKWFVLFSHPADFTPVCTTEFVSFARRYEDFQRLGVDLIGLSVDSVFSHIKWKEWIERHIGVRIPFPIIADPQGTVARRLGLLHAESATHTVRGVFIVDARGVIRTMLYYPMELGRLVDEILRIVKALKLGDSLKRAVPADWPNNEIIGEGLIVPPPTTEDQARARMESGQYRCLDWWFCWDTPASRDDVEEARRYLRRAAEKPAKLLYEEARTHLH |
| 5200 | sp|Q9YHE8|T7L1A\_DANRE | MPQLNGGGGDDLGANDELISFKDEGEQEEKISENVSSERDLDEVKSSLVNESENNSSSSDSEQTDRRPRPRPDLESYEKQREYFAEALRRQQDGGFFKGPPYAGYPFLMIPDITNPYLSNGSLSPSTRTYLQMKWPLLDVPASAALKDSRSPTPGHLSNKVPVVQHPHHVHPLTPLITYSNEHFSPGTPPSHLSPEILDPKTGIPRTPHPSELSPYYPLSPGAVGQIPHPLGWLVPQQGQHMYSIPPGGFRHPYPALAMNASMSSLVSSRFSPHMVPHPPHGLHQTGIPHPAIVSPAIKQEPNGESPSNSTHGKPSVPVKKEEEKKPHIKKPLNAFMLYMKEMRAKVVAECTLKESAAINQILGRRWHSLSREEQAKYYELARKERQLHSQLYPGWSARDNYGKRKKRKRDCKSDSPSESNFSPQPKKQCVPYLSSEKMCDSPTSSHGSMLDSPATPSAALASPAAPAATHSEQAQPLSLTTKPEGRAHHNHPHFPLPGKSSGSGSGSSMALHSLSRPIPFTSLPPSLLGPNSPFHQAALHSHHALLQTQPLSLVTKSVE |
| 5201 | sp|Q9R0Q7|TEBP\_MOUSE | MQPASAKWYDRRDYVFIEFCVEDSKDVNVNFEKSKLTFSCLGGSDNFKHLNEIDLFHCIDPNDSKHKRTDRSILCCLRKGESGQSWPRLTKERAKLNWLSVDFNNWKDWEDDSDEDMSNFDRFSEMMDHMGGDEDVDLPEVDGADDDSQDSDDEKMPDLE |
| 5202 | sp|P48301|TEAD2\_MOUSE | MGDPRTGAPLDDGGGWTGSEEGSEEGTGGSEGVGGDGSPDAEGVWSPDIEQSFQEALAIYPPCGRRKIILSDEGKMYGRNELIARYIKLRTGKTRTRKQVSSHIQVLARRKSREIQSKLKDQVSKDKAFQTMATMSSAQLISAPSLQAKLGPSGPQATELFQFWSGSSGPPWNVPDVKPFSQAPFSVSLTPPASDLPGYEPPPALSPLPPPAPSPPAWQARALGTARLQLIEFSAFVEPPDAVDSFQRHLFVHISQQCPSPGAPPLESVDVRQIYDKFPEKKGGLRELYDRGPPHAFFLVKFWADLNWGPSAEEAGSSGGGGGFYGVSSQYESRELMTLTCSSKVCSFGKQVVEKVETERAQLEDGRFVYRLLRSPMCEYLVNFLHKLRQLPERYMMNSVLENFTILQVVTNRDTQELLLCTAYVFEVSTSERGAQYHIYRLVRD |
| 5203 | sp|Q9FTA2|TCP21\_ARATH | MADNDGAVSNGIIVEQTSNKGPLNAVKKPPSKDRHSKVDGRGRRIRMPIICAARVFQLTRELGHKSDGQTIEWLLRQAEPSIIAATGTGTTPASFSTASLSTSSPFTLGKRVVRAEEGESGGGGGGGLTVGHTMGTSLMGGGGSGGFWAVPARPDFGQVWSFATGAPPEMVFAQQQQPATLFVRHQQQQQASAAAAAAMGEASAARVGNYLPGHHLNLLASLSGGANGSGRREDDHEPR |
| 5204 | sp|Q62746|SYT6\_RAT | MSGVWGAGGPRCQAALAVLASLCRARPPPLGLDVETCQSFELQPPEQSPSAADSGTSVSLLAVVVIVCGVALVAVFFFLFWKLCWMPWRNKEASSPSSANPASEILQSPSSRGNMADKLKDPSALGFLEAAVKISHTSPDIPAEVQMSVKEHIMRHTKLQRQTTEPASSTRHTSFKRHLPRQMHVSSVDYGNELPPAAAEQPTSIGRIKPELYKQKSVDGDEAKSEAAKSCGKINFSLRYDYESETLIVRILKAFDLPAKDFCGSSDPYVKIYLLPDRKCKLQTRVHRKTLNPTFDENFHFPVPYEELADRKLHLSVFDFDRFSRHDMIGEVILDNLFEASDLSRETSIWKDIQYATSESVDLGEIMFSLCYLPTAGRLTLTVIKCRNLKAMDITGYSDPYVKVSLLCDGRRLKKKKTTIKKNTLNPVYNEAIIFDIPPENMDQVSLLISVMDYDRVGHNEIIGVCRVGISAEGLGRDHWNEMLAYPRKPIAHWHCLAEVKKSFKEGTPRL |
| 5205 | sp|O75410|TACC1\_HUMAN | MAFSPWQILSPVQWAKWTWSAVRGGAAGEDEAGGPEGDPEEEDSQAETKSLSFSSDSEGNFETPEAETPIRSPFKESCDPSLGLAGPGAKSQESQEADEQLVAEVVEKCSSKTCSKPSENEVPQQAIDSHSVKNFREEPEHDFSKISIVRPFSIETKDSTDISAVLGTKAAHGCVTAVSGKALPSSPPDALQDEAMTEGSMGVTLEASAEADLKAGNSCPELVPSRRSKLRKPKPVPLRKKAIGGEFSDTNAAVEGTPLPKASYHFSPEELDENTSPLLGDARFQKSPPDLKETPGTLSSDTNDSGVELGEESRSSPLKLEFDFTEDTGNIEARKALPRKLGRKLGSTLTPKIQKDGISKSAGLEQPTDPVARDGPLSQTSSKPDPSQWESPSFNPFGSHSVLQNSPPLSSEGSYHFDPDNFDESMDPFKPTTTLTSSDFCSPTGNHVNEILESPKKAKSRLITSGCKVKKHETQSLALDACSRDEGAVISQISDISNRDGHATDEEKLASTSCGQKSAGAEVKGEPEEDLEYFECSNVPVSTINHAFSSSEAGIEKETCQKMEEDGSTVLGLLESSAEKAPVSVSCGGESPLDGICLSESDKTAVLTLIREEIITKEIEANEWKKKYEETRQEVLEMRKIVAEYEKTIAQMIEDEQRTSMTSQKSFQQLTMEKEQALADLNSVERSLSDLFRRYENLKGVLEGFKKNEEALKKCAQDYLARVKQEEQRYQALKIHAEEKLDKANEEIAQVRTKAKAESAALHAGLRKEQMKVESLERALQQKNQEIEELTKICDELIAKLGKTD |
| 5206 | sp|Q9Y5J6|T10B\_HUMAN | MERQQQQQQQLRNLRDFLLVYNRMTELCFQRCVPSLHHRALDAEEEACLHSCAGKLIHSNHRLMAAYVQLMPALVQRRIADYEAASAVPGVAAEQPGVSPSGS |
| 5207 | sp|P53040|TAF6\_YEAST | MSTQQQSYTIWSPQDTVKDVAESLGLENINDDVLKALAMDVEYRILEIIEQAVKFKRHSKRDVLTTDDVSKALRVLNVEPLYGYYDGSEVNKAVSFSKVNTSGGQSVYYLDEEEVDFDRLINEPLPQVPRLPTFTTHWLAVEGVQPAIIQNPNLNDIRVSQPPFIRGAIVTALNDNSLQTPVTSTTASASVTDTGASQHLSNVKPGQNTEVKPLVKHVLSKELQIYFNKVISTLTAKSQADEAAQHMKQAALTSLRTDSGLHQLVPYFIQFIAEQITQNLSDLQLLTTILEMIYSLLSNTSIFLDPYIHSLMPSILTLLLAKKLGGSPKDDSPQEIHEFLERTNALRDFAASLLDYVLKKFPQAYKSLKPRVTRTLLKTFLDINRVFGTYYGCLKGVSVLEGESIRFFLGNLNNWARLVFNESGITLDNIEEHLNDDSNPTRTKFTKEETQILVDTVISALLVLKKDLPDLYEGKGEKVTDEDKEKLLERCGVTIGFHILKRDDAKELISAIFFGE |
| 5208 | sp|Q8VI33|TAF9\_MOUSE | MESGKMASPKSMPKDAQMMAQILKDMGITEYEPRVINQMLEFAFRYVTTILDDAKIYSSHAKKATVDADDVRLAIQCRADQSFTSPPPRDFLLDIARQRNQTPLPLIKPYSGPRLPPDRYCLTAPNYRLKSLQKKAPAPAGRITVPRLSVGSVSSRPSTPTLGTPTPQTMSVSTKVGTPMSLTGQRFTVQMPASQSPAVKASIPATSTVQNVLINPSLIGSKNILITTNMVSQNTAESANALKRKREDDDDDDDDDDDDDYDNM |
| 5209 | sp|Q13395|TARB1\_HUMAN | MEWVLAEALLSQSRDPRALLGALCQGEASAERVETLRFLLQRLEDEEARGSGGAGALPEAAREVAAGYLVPLLRSLRGRPAGGPDPSLQPRHRRRVLRAAGAALRSCVRLAGRPQLAAALAEEALRDLLAGWRAPGAEAAVEVLAAVGPCLRPREDGPLLERVAGTAVALALGGGGDGDEAGPAEDAAALVAGRLLPVLVQCGGAALRAVWGGLAAPGASLGSGRVEEKLLVLSALAEKLLPEPGGDRARGAREAGPDARRCWRFWRTVQAGLGQADALTRKRARYLLQRAVEVSAELGADCTCGPQEGNGPSLFWWSERKKDELLKFWENYILIMETLEGNQIHVIKPVLPKLNNLFEYAVSEENGCWLFHPSWHMCIYKRMFESENKILSKEGVIHFLELYETKILPFSPEFSEFIIGPLMDALSESSLYSRSPGQPIGSCSPLGLKLQKFLVTYISLLPEEIKSSFLLKFIRKMTSRHWCAVPILFLSKALANVPRHKALGIDGLLALRDVIHCTMITHQILLRGAAQCYLLQTAMNLLDVEKVSLSDVSTFLMSLRQEESLGRGTSLWTELCDWLRVNESYFKPSPTCSSIGLHKTSLNAYVKSIVQEYVKSSAWETGENCFMPDWFEAKLVSLMVLLAVDVEGMKTQYSGKQRTENVLRIFLDPLLDVLMKFSTNAYMPLLKTDRCLQLLLKLLNTCRLKGSSAQDDEVSTVLQNFFMSTTESISEFILRRLTMNELNSVSDLDRCHLYLMVLTELINLHLKVGWKRGNPIWRVISLLKNASIQHLQEMDSGQEPTVGSQIQRVVSMAALAMVCEAIDQKPELQLDSLHAGPLESFLSSLQLNQTLQKPHAEEQSSYAHPLECSSVLEESSSSQGWGKIVAQYIHDQWVCLSFLLKKYHTLIPTTGSEILEPFLPAVQMPIRTLQSALEALTVLSSDQVLPVFHCLKVLVPKLLTSSESLCIESFDMAWKIISSLSNTQLIFWANLKAFVQFVFDNKVLTIAAKIKGQAYFKIKEIMYKIIEMSAIKTGVFNTLISYCCQSWIVSASNVSQGSLSSAKNYSELILEACIFGTVFRRDQRLVQDVQTFIENLGHDCAANIVMENTKREDHYVRICAVKFLCLLDGSNMSHKLFIEDLAIKLLDKDELVSKSKKRYYVNSLQHRVKNRVWQTLLVLFPRLDQNFLNGIIDRIFQAGFTNNQASIKYFIEWIIILILHKFPQFLPKFWDCFSYGEENLKTSICTFLAVLSHLDIITQNIPEKKLILKQALIVVLQWCFNHNFSVRLYALVALKKLWTVCKVLSVEEFDALTPVIESSLHQVESMHGAGNAKKNWQRIQEHFFFATFHPLKDYCLETIFYILPRLSGLIEDEWITIDKFTRFTDVPLAAGFQWYLSQTQLSKLKPGDWSQQDIGTNLVEADNQAEWTDVQKKIIPWNSRVSDLDLELLFQDRAARLGKSISRLIVVASLIDKPTNLGGLCRTCEVFGASVLVVGSLQCISDKQFQHLSVSAEQWLPLVEVKPPQLIDYLQQKKTEGYTIIGVEQTAKSLDLTQYCFPEKSLLLLGNEREGIPANLIQQLDVCVEIPQQGIIRSLNVHVSGALLIWEYTRQQLLSHGDTKP |
| 5210 | sp|Q9SFD5|TAD2A\_ARATH | MGRSKLASRPAEEDLNPGKSKRKKISLGPENAAASISTGIEAGNERKPGLYCCNYCDKDLSGLVRFKCAVCMDFDLCVECFSVGVELNRHKNSHPYRVMDNLSFSLVTSDWNADEEILLLEAIATYGFGNWKEVADHVGSKTTTECIKHFNSAYMQSPCFPLPDLSHTIGKSKDELLAMSKDSAVKTEIPAFVRLSPKEELPVSAEIKHEASGKVNEIDPPLSALAGVKKKGNVPQAKDIIKLEAAKQQSDRSVGEKKLRLPGEKVPLVTELYGYNLKREEFEIEHDNDAEQLLADMEFKDSDTDAEREQKLQVLRIYSKRLDERKRRKEFVLERNLLYPDQYEMSLSAEERKIYKSCKVFARFQSKEEHKELIKKVIEEHQILRRIEDLQEARTAGCRTTSDANRFIEEKRKKEAEESMLLRLNHGAPGSIAGKTLKSPRGLPRNLHPFGSDSLPKVTPPRIYSGLDTWDVDGLLGADLLSETEKKMCNETRILPVHYLKMLDILTREIKKGQIKKKSDAYSFFKVEPSKVDRVYDMLVHKGIGDST |
| 5211 | sp|Q5I2P1|TBX5\_RAT | MADADEGFGLARTPLEPDSKDRSCDSKPESALGAPSKSPSSPQAAFTQQGMEGIKVFLHERELWLKFHEVGTEMIITKAGRQMFPSYKVKVTGLNPKTKYILLMDIVPADDHRYKFADNKWSVTGKAEPAMPGRLYVHPDSPATGAHWMRQLVSFQKLKLTNNHLDPFGHIILNSMHKYQPRLHIVKADENNGFGSKNTAFCTHVFPETAFIAVTSYQNHKITQLKIENNPFAKGFRGSDDLELHRMSRMRSKEYPVVPRSTVRHKVANHSPFSSETRALSTSSNLGSQYQCENGVSGPSQDLLPPPNPYPLAQEHSQIYHCTKRKDEECSSTEHPYKKPYMETSPSEEDTFYRSGYPQQQGLSTSYRTESAQRQACMYASSAPPSEPVPSLEDISCNTWPSMPSYSSCTVTTVQPMDRLPYQHFSAHFTSGPLVPRLAGMANHGSPQLGEGMFQHQTSVTHQPVVRQCGPQTGLQSPGSLQPPEFLYTHGVPRTLSPHQYHSVHGVGMVPEWSENS |
| 5212 | sp|Q6NUS6|TECT3\_HUMAN | MRTPQLALLQVFFLVFPDGVRPQPSSSPSGAVPTSLELQRGTDGGTLQSPSEATATRPAVPGLPTVVPTLVTPSAPGNRTVDLFPVLPICVCDLTPGACDINCCCDRDCYLLHPRTVFSFCLPGSVRSSSWVCVDNSVIFRSNSPFPSRVFMDSNGIRQFCVHVNNSNLNYFQKLQKVNATNFQALAAEFGGESFTSTFQTQSPPSFYRAGDPILTYFPKWSVISLLRQPAGVGAGGLCAESNPAGFLESKSTTCTRFFKNLASSCTLDSALNAASYYNFTVLKVPRSMTDPQNMEFQVPVILTSQANAPLLAGNTCQNVVSQVTYEIETNGTFGIQKVSVSLGQTNLTVEPGASLQQHFILRFRAFQQSTAASLTSPRSGNPGYIVGKPLLALTDDISYSMTLLQSQGNGSCSVKRHEVQFGVNAISGCKLRLKKADCSHLQQEIYQTLHGRPRPEYVAIFGNADPAQKGGWTRILNRHCSISAINCTSCCLIPVSLEIQVLWAYVGLLSNPQAHVSGVRFLYQCQSIQDSQQVTEVSLTTLVNFVDITQKPQPPRGQPKMDWKWPFDFFPFKVAFSRGVFSQKCSVSPILILCLLLLGVLNLETM |
| 5213 | sp|P20227|TBP\_DROME | MDQMLSPNFSIPSIGTPLHQMEADQQIVANPVYHPPAVSQPDSLMPAPGSSSVQHQQQQQQSDASGGSGLFGHEPSLPLAHKQMQSYQPSASYQQQQQQQQLQSQAPGGGGSTPQSMMQPQTPQSMMAHMMPMSERSVGGSGAGGGGDALSNIHQTMGPSTPMTPATPGSADPGIVPQLQNIVSTVNLCCKLDLKKIALHARNAEYNPKRFAAVIMRIREPRTTALIFSSGKMVCTGAKSEDDSRLAARKYARIIQKLGFPAKFLDFKIQNMVGSCDVKFPIRLEGLVLTHCNFSSYEPELFPGLIYRMVRPRIVLLIFVSGKVVLTGAKVRQEIYDAFDKIFPILKKFKKQS |
| 5214 | sp|Q53T94|TAF1B\_HUMAN | MDLEEAEEFKERCTQCAAVSWGLTDEGKYYCTSCHNVTERYQEVTNTDLIPNTQIKALNRGLKKKNNTEKGWDWYVCEGFQYILYQQAEALKNLGVGPELKNDVLHNFWKRYLQKSKQAYCKNPVYTTGRKPTVLEDNLSHSDWASEPELLSDVSCPPFLESGAESQSDIHTRKPFPVSKASQSETSVCSGSLDGVEYSQRKEKGIVKMTMPQTLAFCYLSLLWQREAITLSDLLRFVEEDHIPYINAFQHFPEQMKLYGRDRGIFGIESWPDYEDIYKKTVEVGTFLDLPRFPDITEDCYLHPNILCMKYLMEVNLPDEMHSLTCHVVKMTGMGEVDFLTFDPIAKMAKTVKYDVQAVAIIVVVLKLLFLLDDSFEWSLSNLAEKHNEKNKKDKPWFDFRKWYQIMKKAFDEKKQKWEEARAKYLWKSEKPLYYSFVDKPVAYKKREMVVNLQKQFSTLVESTATAGKKSPSSFQFNWTEEDTDRTCFHGHSLQGVLKEKGQSLLTKNSLYWLSTQKFCRCYCTHVTTYEESNYSLSYQFILNLFSFLLRIKTSLLHEEVSLVEKKLFEKKYSVKRKKSRSKKVRRH |
| 5215 | sp|Q92734|TFG\_HUMAN | MNGQLDLSGKLIIKAQLGEDIRRIPIHNEDITYDELVLMMQRVFRGKLLSNDEVTIKYKDEDGDLITIFDSSDLSFAIQCSRILKLTLFVNGQPRPLESSQVKYLRRELIELRNKVNRLLDSLEPPGEPGPSTNIPENDTVDGREEKSASDSSGKQSTQVMAASMSAFDPLKNQDEINKNVMSAFGLTDDQVSGPPSAPAEDRSGTPDSIASSSSAAHPPGVQPQQPPYTGAQTQAGQIEGQMYQQYQQQAGYGAQQPQAPPQQPQQYGIQYSASYSQQTGPQQPQQFQGYGQQPTSQAPAPAFSGQPQQLPAQPPQQYQASNYPAQTYTAQTSQPTNYTVAPASQPGMAPSQPGAYQPRPGFTSLPGSTMTPPPSGPNPYARNRPPFGQGYTQPGPGYR |
| 5216 | sp|Q9BSA9|TM175\_HUMAN | MSQPRTPEQALDTPGDCPPGRRDEDAGEGIQCSQRMLSFSDALLSIIATVMILPVTHTEISPEQQFDRSVQRLLATRIAVYLMTFLIVTVAWAAHTRLFQVVGKTDDTLALLNLACMMTITFLPYTFSLMVTFPDVPLGIFLFCVCVIAIGVVQALIVGYAFHFPHLLSPQIQRSAHRALYRRHVLGIVLQGPALCFAAAIFSLFFVPLSYLLMVTVILLPYVSKVTGWCRDRLLGHREPSAHPVEVFSFDLHEPLSKERVEAFSDGVYAIVATLLILDICEDNVPDPKDVKERFSGSLVAALSATGPRFLAYFGSFATVGLLWFAHHSLFLHVRKATRAMGLLNTLSLAFVGGLPLAYQQTSAFARQPRDELERVRVSCTIIFLASIFQLAMWTTALLHQAETLQPSVWFGGREHVLMFAKLALYPCASLLAFASTCLLSRFSVGIFHLMQIAVPCAFLLLRLLVGLALATLRVLRGLARPEHPPPAPTGQDDPQSQLLPAPC |
| 5217 | sp|Q9NYK1|TLR7\_HUMAN | MVFPMWTLKRQILILFNIILISKLLGARWFPKTLPCDVTLDVPKNHVIVDCTDKHLTEIPGGIPTNTTNLTLTINHIPDISPASFHRLDHLVEIDFRCNCVPIPLGSKNNMCIKRLQIKPRSFSGLTYLKSLYLDGNQLLEIPQGLPPSLQLLSLEANNIFSIRKENLTELANIEILYLGQNCYYRNPCYVSYSIEKDAFLNLTKLKVLSLKDNNVTAVPTVLPSTLTELYLYNNMIAKIQEDDFNNLNQLQILDLSGNCPRCYNAPFPCAPCKNNSPLQIPVNAFDALTELKVLRLHSNSLQHVPPRWFKNINKLQELDLSQNFLAKEIGDAKFLHFLPSLIQLDLSFNFELQVYRASMNLSQAFSSLKSLKILRIRGYVFKELKSFNLSPLHNLQNLEVLDLGTNFIKIANLSMFKQFKRLKVIDLSVNKISPSGDSSEVGFCSNARTSVESYEPQVLEQLHYFRYDKYARSCRFKNKEASFMSVNESCYKYGQTLDLSKNSIFFVKSSDFQHLSFLKCLNLSGNLISQTLNGSEFQPLAELRYLDFSNNRLDLLHSTAFEELHKLEVLDISSNSHYFQSEGITHMLNFTKNLKVLQKLMMNDNDISSSTSRTMESESLRTLEFRGNHLDVLWREGDNRYLQLFKNLLKLEELDISKNSLSFLPSGVFDGMPPNLKNLSLAKNGLKSFSWKKLQCLKNLETLDLSHNQLTTVPERLSNCSRSLKNLILKNNQIRSLTKYFLQDAFQLRYLDLSSNKIQMIQKTSFPENVLNNLKMLLLHHNRFLCTCDAVWFVWWVNHTEVTIPYLATDVTCVGPGAHKGQSVISLDLYTCELDLTNLILFSLSISVSLFLMVMMTASHLYFWDVWYIYHFCKAKIKGYQRLISPDCCYDAFIVYDTKDPAVTEWVLAELVAKLEDPREKHFNLCLEERDWLPGQPVLENLSQSIQLSKKTVFVMTDKYAKTENFKIAFYLSHQRLMDEKVDVIILIFLEKPFQKSKFLQLRKRLCGSSVLEWPTNPQAHPYFWQCLKNALATDNHVAYSQVFKETV |
| 5218 | sp|P0C1Z6|TFPT\_HUMAN | MELEQREGTMAAVGFEEFSAPPGSELALPPLFGGHILESELETEVEFVSGGLGGSGLRERDEEEEAARGRRRRQRELNRRKYQALGRRCREIEQVNERVLNRLHQVQRITRRLQQERRFLMRVLDSYGDDYRASQFTIVLEDEGSQGTDAPTPGNAENEPPEKETLSPPRRTPAPPEPGSPAPGEGPSGRKRRRVPRDGRRAGNALTPELAPVQIKVEEDFGFEADEALDSSWVSRGPDKLLPYPTLASPASD |
| 5219 | sp|Q9SKP6|TPIC\_ARATH | MAATSLTAPPSFSGLRRISPKLDAAAVSSHQSFFHRVNSSTRLVSSSSSSHRSPRGVVAMAGSGKFFVGGNWKCNGTKDSIAKLISDLNSATLEADVDVVVSPPFVYIDQVKSSLTDRIDISGQNSWVGKGGAFTGEISVEQLKDLGCKWVILGHSERRHVIGEKDEFIGKKAAYALSEGLGVIACIGEKLEEREAGKTFDVCFAQLKAFADAVPSWDNIVVAYEPVWAIGTGKVASPQQAQEVHVAVRGWLKKNVSEEVASKTRIIYGGSVNGGNSAELAKEEDIDGFLVGGASLKGPEFATIVNSVTSKKVAA |
| 5220 | sp|Q8WVT3|TPC12\_HUMAN | MEDAGGGEETPAPEAPHPPQLAPPEEQGLLFQEETIDLGGDEFGSEENETASEGSSPLADKLNEHMMESVLISDSPNSEGDAGDLGRVRDEAEPGGEGDPGPEPAGTPSPSGEADGDCAPEDAAPSSGGAPRQDAAREVPGSEAARPEQEPPVAEPVPVCTIFSQRAPPASGDGFEPQMVKSPSFGGASEASARTPPQVVQPSPSLSTFFGDTAASHSLASDFFDSFTTSAFISVSNPGAGSPAPASPPPLAVPGTEGRPEPVAMRGPQAAAPPASPEPFAHIQAVFAGSDDPFATALSMSEMDRRNDAWLPGEATRGVLRAVATQQRGAVFVDKENLTMPGLRFDNIQGDAVKDLMLRFLGEKAAAKRQVLNADSVEQSFVGLKQLISCRNWRAAVDLCGRLLTAHGQGYGKSGLLTSHTTDSLQLWFVRLALLVKLGLFQNAEMEFEPFGNLDQPDLYYEYYPHVYPGRRGSMVPFSMRILHAELQQYLGNPQESLDRLHKVKTVCSKILANLEQGLAEDGGMSSVTQEGRQASIRLWRSRLGRVMYSMANCLLLMKDYVLAVEAYHSVIKYYPEQEPQLLSGIGRISLQIGDIKTAEKYFQDVEKVTQKLDGLQGKIMVLMNSAFLHLGQNNFAEAHRFFTEILRMDPRNAVANNNAAVCLLYLGKLKDSLRQLEAMVQQDPRHYLHESVLFNLTTMYELESSRSMQKKQALLEAVAGKEGDSFNTQCLKLA |
| 5221 | sp|Q9V3Z1|TRIB\_DROME | MDNSSGQNSRTASSASTSKIVNYSSPVSPGVAAATSSSSSSSSSGMSSSQEDTVLGLFTPKKEFPNAKMLQTIREKLMTPGGACDLLALGIAAEPTDQQPVKLIQQRYLISAQPSHISAAVAAKTPASYRHLVDLTASNLRCVDIFTGEQFLCRIVNEPLHKVQRAYFQLQQHDEELRRSTIYGHPLIRPVHDIIPLTKDRTYILIAPVPQERDSTGGVTGVYENLHTYIRHAKRLCETEARAIFHQICQTVQVCHRNGIILRDLKLKRFYFIDEARTKLQYESLEGSMILDGEDDTLSDKIGCPLYTAPELLCPQQTYKGKPADMWSLGVILYTMLVGQYPFYEKANCNLITVIRHGNVQIPLTLSKSVRWLLLSLLRKDYTERMTASHIFLTPWLREQRPFHMYLPVDVEVAEDWSDAEEDEGTAADAMDDDEEGLCPLGDKHEYEDIGVEPLDYTRSTLQMAQNANGLSTEPEPDTDVDMG |
| 5222 | sp|O95361|TRI16\_HUMAN | MAELDLMAPGPLPRATAQPPAPLSPDSGSPSPDSGSASPVEEEDVGSSEKLGRETEEQDSDSAEQGDPAGEGKEVLCDFCLDDTRRVKAVKSCLTCMVNYCEEHLQPHQVNIKLQSHLLTEPVKDHNWRYCPAHHSPLSAFCCPDQQCICQDCCQEHSGHTIVSLDAARRDKEAELQCTQLDLERKLKLNENAISRLQANQKSVLVSVSEVKAVAEMQFGELLAAVRKAQANVMLFLEEKEQAALSQANGIKAHLEYRSAEMEKSKQELERMAAISNTVQFLEEYCKFKNTEDITFPSVYVGLKDKLSGIRKVITESTVHLIQLLENYKKKLQEFSKEEEYDIRTQVSAVVQRKYWTSKPEPSTREQFLQYAYDITFDPDTAHKYLRLQEENRKVTNTTPWEHPYPDLPSRFLHWRQVLSQQSLYLHRYYFEVEIFGAGTYVGLTCKGIDRKGEERNSCISGNNFSWSLQWNGKEFTAWYSDMETPLKAGPFRRLGVYIDFPGGILSFYGVEYDTMTLVHKFACKFSEPVYAAFWLSKKENAIRIVDLGEEPEKPAPSLVGTAP |
| 5223 | sp|Q8BGX0|TRI23\_MOUSE | MAALAVNKPGAGVDSGRQGSRGTAVVKVLECGVCEDVFSLQGDKVPRLLLCGHTVCHDCLTRLPLHGRAIRCPFDRQVTDLGDSGVWGLKKNFALLELLERLQNGHIGQYGAAEEAIGTSGESIIRCDEDEAHVASVYCTVCATHLCSDCSQVTHSTKTLAKHRRVPLADKPHEKTMCCQHQVHAIEFVCLEEGCQTSPLMCCVCKEYGKHQGHKHSVLEPEANQIRASILDMAHCIRTFTEEISDYSRKLVGIVQHIEGGEQIVEDGIGMAHTEHVPGTAENARSCVRAYFSDLHETLCRQEEMALSVVDAHVREKLIWLRQQQEDMTILLSQVSTACLHCEKTLQQDDCRVVLAKQEITRLLETLQKQQQQFTEVADHIQLDASIPVTFTKDNRVHIGPKMEIRVVTLGLDGAGKTTILFKLKQDEFMQPIPTIGFNVETVEYKNLKFTIWDVGGKHKLRPLWKHYYLNTQAVVFVVDSSHRDRISEAHSELAKLLTEKELRDALLLIFANKQDVAGALSVEEITELLSLHKLCCGRSWYIQGCDARSGMGLYEGLDWLSRQLVAAGVLDVA |
| 5224 | sp|Q95NU5|TORS\_CAEEL | MKLDYVLLLLFHLCFVNTELISVITGKIKDSGTTIAISAGAFWGLKDRLKCYLYECCHEPDVNFNYHTLDADIANLLFGQHLVKDVVVNSIKSHWYNENPRKPLVLSFHGYTGSGKNYVAEIIANNTFRLGLRSTFVQHIVATNDFPDKNKLEEYQVELRNRILTTVQKCQRSIFIFDEADKLPEQLLGAIKPFLDYYSTISGVDFRRSIFILLSNKGGGEIARITKEQYESGYPREQLRLEAFERELMNFSYNEKGGLQMSELISNHLIDHFVPFLPLQREHVRSCVGAYLRKRGRGDLVSNVDFVERVLNSLQYFPESSKAFSSSGCKRVDAKTDLEMAKIRPLLSSVHFDDEL |
| 5225 | sp|Q9UJV3|TRIM1\_HUMAN | MGESPASVVLNASGGLFSLKMETLESELTCPICLELFEDPLLLPCAHSLCFSCAHRILVSSCSSGESIEPITAFQCPTCRYVISLNHRGLDGLKRNVTLQNIIDRFQKASVSGPNSPSESRRERTYRPTTAMSSERIACQFCEQDPPRDAVKTCITCEVSYCDRCLRATHPNKKPFTSHRLVEPVPDTHLRGITCLDHENEKVNMYCVSDDQLICALCKLVGRHRDHQVASLNDRFEKLKQTLEMNLTNLVKRNSELENQMAKLIQICQQVEVNTAMHEAKLMEECDELVEIIQQRKQMIAVKIKETKVMKLRKLAQQVANCRQCLERSTVLINQAEHILKENDQARFLQSAKNIAERVAMATASSQVLIPDINFNDAFENFALDFSREKKLLEGLDYLTAPNPPSIREELCTASHDTITVHWISDDEFSISSYELQYTIFTGQANFISKSWCSWGLWPEIRKCKEAVSCSRLAGAPRGLYNSVDSWMIVPNIKQNHYTVHGLQSGTRYIFIVKAINQAGSRNSEPTRLKTNSQPFKLDPKMTHKKLKISNDGLQMEKDESSLKKSHTPERFSGTGCYGAAGNIFIDSGCHYWEVVMGSSTWYAIGIAYKSAPKNEWIGKNASSWVFSRCNSNFVVRHNNKEMLVDVPPHLKRLGVLLDYDNNMLSFYDPANSLHLHTFDVTFILPVCPTFTIWNKSLMILSGLPAPDFIDYPERQECNCRPQESPYVSGMKTCH |
| 5226 | sp|Q7TNM2|TRI46\_MOUSE | MAEGEDMQTFTSIMDALVRISTSMKNMEKELLCPVCQEMYKQPLVLPCTHNVCQACAREVLGQQGYIGHGGDPSSEPTSPASTPSTRSPRLSRRTLPKPDRLDRLLKSGFGTYPGRKRGALHPQTILFPCPACQGDVELGERGLSGLFRNLTLERVVERYRQSVSVGGAILCQLCKPPPLEATKGCTECRATFCNECFKLFHPWGTQKAQHEPTLPTLSFRPKGLMCPDHKEEVTHYCKTCQRLVCQLCRVRRTHSGHKITPVLSAYQALKDKLTKSLAYILGNQDTVQTQICELEETIRHTEVSGQQAKEEVSQLVRGLGAVLEEKRASLLQAIEECQQERLSRLSAQIHEHQSLLDGSGLVGYAQEVLKETDQPCFVQAAKQLHNRIARATEALQTFRPAASSSFRHCQLDVGREMKLLTELSFLRVPEAPVIDTQRTFAYDQIFLCWRLPPHSPPAWHYTVEFRRTDVPAQPGPTRWQRREEVRGTSALLENPDTGSVYVLRVRGCNKAGYGEYSEDVHLHTPPAPVLHFFLDGRWGASRERLAISKDQRAVRSIPGLPLLLAAERLLTGCHLSVDVVLGDVAVTQGRSYWACAVDPASYLVKVGVGLESKLQESFQGAPDVISPRYDPDSGHDSGAEDAAVEALPPFAFLTIGMGKILLGSGASSNAGLTGRDGPTASCTVPLPPRLGICLDYERGRVSFLDAVSFRGLLECPLDCSGPVCPAFCFIGGGAVQLQEPVGTKPERKVTIGGFAKLD |
| 5227 | sp|Q9ER39|TOR1A\_MOUSE | MKLGRAALALLLLAPCVVRAVEPISLSLALAGVLTTYISYPRLYCLFAECCGQMRSLSREALQKDLDNKLFGQHLAKKVILNAVSGFLSNPKPKKPLTLSLHGWTGTGKNFASKIIAENIYEGGLNSDYVHLFVATLHFPHASNITQYKDQLQMWIRGNVSACARSIFIFDEMDKMHAGLIDAIKPFLDYYDVVDEVSYQKAIFIFLSNAGAERITDVALDFWKSGKQREEIKLRDMEPALAVSVFNNKNSGFWHSSLIDRNLIDYFVPFLPLEYKHLKMCIRVEMQSRGYEVDEDIISKVAEEMTFFPKEEKVFSDKGCKTVFTKLDYYLDD |
| 5228 | sp|P04786|TOP1\_YEAST | MTIADASKVNHELSSDDDDDVPLSQTLKKRKVASMNSASLQDEAEPYDSDEAISKISKKKTKKIKTEPVQSSSLPSPPAKKSATSKPKKIKKEDGDVKVKTTKKEEQENEKKKREEEEEEDKKAKEEEEEYKWWEKENEDDTIKWVTLKHNGVIFPPPYQPLPSHIKLYYDGKPVDLPPQAEEVAGFFAALLESDHAKNPVFQKNFFNDFLQVLKESGGPLNGIEIKEFSRCDFTKMFDYFQLQKEQKKQLTSQEKKQIRLEREKFEEDYKFCELDGRREQVGNFKVEPPDLFRGRGAHPKTGKLKRRVNPEDIVLNLSKDAPVPPAPEGHKWGEIRHDNTVQWLAMWRENIFNSFKYVRLAANSSLKGQSDYKKFEKARQLKSYIDAIRRDYTRNLKSKVMLERQKAVAIYLIDVFALRAGGEKSEDEADTVGCCSLRYEHVTLKPPNTVIFDFLGKDSIRFYQEVEVDKQVFKNLTIFKRPPKQPGHQLFDRLDPSILNKYLQNYMPGLTAKVFRTYNASKTMQDQLDLIPNKGSVAEKILKYNAANRTVAILCNHQRTVTKGHAQTVEKANNRIQELEWQKIRCKRAILQLDKDLLKKEPKYFEEIDDLTKEDEATIHKRIIDREIEKYQRKFVRENDKRKFEKEELLPESQLKEWLEKVDEKKQEFEKELKTGEVELKSSWNSVEKIKAQVEKLEQRIQTSSIQLKDKEENSQVSLGTSKINYIDPRLSVVFCKKYDVPIEKIFTKTLREKFKWAIESVDENWRF |
| 5229 | sp|O70583|TRI18\_MOUSE | METLESELTCPICLELFEDPLLLPCAHSLCFNCAHRILVSHCATNEPVESINAFQCPTCRHVITLSQRGLDGLKRNVTLQNIIDRFQKASVSGPNSPSETRRERAFDANTMSSAEKVLCQFCDQDPAQDAVKTCVTCEVSYCDECLKATHPNKKPFTGHRLIEPIPDSHIRGLMCLEHEDEKVNMYCVTDDQLICALCKLVGRHRDHQVAALSERYDKLKQNLESNLTNLIKRNTELETLLAKLIQTCQHVEVNASRQEAKLTEECDLLIEIIQQRRQIIGTKIKEGKVIRLRKLAQQIANCKQCLERSASLISQAEHSLKENDHARFLQTAKNITERVSMATASSQVLIPEINLNDTFDTFALDFSREKKLLECLDYLTAPNPPAIREELCTASYDTITVHWTSEDEFSVVSYELQYTIFTGQANVVNVACDGTCLLGSAGLCNSADSWMIVPNIKQNHYTVHGLQSGTKYIFTVKAINQAGSRSSEPGKLKTNSQPFRLDPKSAHRKLKVSHDNLTVERDESSSKKSHAPERFAGQGSYGVAGNVFIDSGRHYWEVVTSGSTWYAIGLAYRSAPKHEWIGKNAASWALCRCHNHWAVRHDGKETPIAPAPHLRRVGVLLDYDNGSIAFYDALSSVHLHTFHAALAQPVCPTFTVWNKCLTIVTGLPIPDHLDCTEQRP |
| 5230 | sp|O75643|U520\_HUMAN | MADVTARSLQYEYKANSNLVLQADRSLIDRTRRDEPTGEVLSLVGKLEGTRMGDKAQRTKPQMQEERRAKRRKRDEDRHDINKMKGYTLLSEGIDEMVGIIYKPKTKETRETYEVLLSFIQAALGDQPRDILCGAADEVLAVLKNEKLRDKERRKEIDLLLGQTDDTRYHVLVNLGKKITDYGGDKEIQNMDDNIDETYGVNVQFESDEEEGDEDVYGEVREEASDDDMEGDEAVVRCTLSANLVASGELMSSKKKDLHPRDIDAFWLQRQLSRFYDDAIVSQKKADEVLEILKTASDDRECENQLVLLLGFNTFDFIKVLRQHRMMILYCTLLASAQSEAEKERIMGKMEADPELSKFLYQLHETEKEDLIREERSRRERVRQSRMDTDLETMDLDQGGEALAPRQVLDLEDLVFTQGSHFMANKRCQLPDGSFRRQRKGYEEVHVPALKPKPFGSEEQLLPVEKLPKYAQAGFEGFKTLNRIQSKLYRAALETDENLLLCAPTGAGKTNVALMCMLREIGKHINMDGTINVDDFKIIYIAPMRSLVQEMVGSFGKRLATYGITVAELTGDHQLCKEEISATQIIVCTPEKWDIITRKGGERTYTQLVRLIILDEIHLLHDDRGPVLEALVARAIRNIEMTQEDVRLIGLSATLPNYEDVATFLRVDPAKGLFYFDNSFRPVPLEQTYVGITEKKAIKRFQIMNEIVYEKIMEHAGKNQVLVFVHSRKETGKTARAIRDMCLEKDTLGLFLREGSASTEVLRTEAEQCKNLELKDLLPYGFAIHHAGMTRVDRTLVEDLFADKHIQVLVSTATLAWGVNLPAHTVIIKGTQVYSPEKGRWTELGALDILQMLGRAGRPQYDTKGEGILITSHGELQYYLSLLNQQLPIESQMVSKLPDMLNAEIVLGNVQNAKDAVNWLGYAYLYIRMLRSPTLYGISHDDLKGDPLLDQRRLDLVHTAALMLDKNNLVKYDKKTGNFQVTELGRIASHYYITNDTVQTYNQLLKPTLSEIELFRVFSLSSEFKNITVREEEKLELQKLLERVPIPVKESIEEPSAKINVLLQAFISQLKLEGFALMADMVYVTQSAGRLMRAIFEIVLNRGWAQLTDKTLNLCKMIDKRMWQSMCPLRQFRKLPEEVVKKIEKKNFPFERLYDLNHNEIGELIRMPKMGKTIHKYVHLFPKLELSVHLQPITRSTLKVELTITPDFQWDEKVHGSSEAFWILVEDVDSEVILHHEYFLLKAKYAQDEHLITFFVPVFEPLPPQYFIRVVSDRWLSCETQLPVSFRHLILPEKYPPPTELLDLQPLPVSALRNSAFESLYQDKFPFFNPIQTQVFNTVYNSDDNVFVGAPTGSGKTICAEFAILRMLLQSSEGRCVYITPMEALAEQVYMDWYEKFQDRLNKKVVLLTGETSTDLKLLGKGNIIISTPEKWDILSRRWKQRKNVQNINLFVVDEVHLIGGENGPVLEVICSRMRYISSQIERPIRIVALSSSLSNAKDVAHWLGCSATSTFNFHPNVRPVPLELHIQGFNISHTQTRLLSMAKPVYHAITKHSPKKPVIVFVPSRKQTRLTAIDILTTCAADIQRQRFLHCTEKDLIPYLEKLSDSTLKETLLNGVGYLHEGLSPMERRLVEQLFSSGAIQVVVASRSLCWGMNVAAHLVIIMDTQYYNGKIHAYVDYPIYDVLQMVGHANRPLQDDEGRCVIMCQGSKKDFFKKFLYEPLPVESHLDHCMHDHFNAEIVTKTIENKQDAVDYLTWTFLYRRMTQNPNYYNLQGISHRHLSDHLSELVEQTLSDLEQSKCISIEDEMDVAPLNLGMIAAYYYINYTTIELFSMSLNAKTKVRGLIEIISNAAEYENIPIRHHEDNLLRQLAQKVPHKLNNPKFNDPHVKTNLLLQAHLSRMQLSAELQSDTEEILSKAIRLIQACVDVLSSNGWLSPALAAMELAQMVTQAMWSKDSYLKQLPHFTSEHIKRCTDKGVESVFDIMEMEDEERNALLQLTDSQIADVARFCNRYPNIELSYEVVDKDSIRSGGPVVVLVQLEREEEVTGPVIAPLFPQKREEGWWVVIGDAKSNSLISIKRLTLQQKAKVKLDFVAPATGAHNYTLYFMSDAYMGCDQEYKFSVDVKEAETDSDSD |
| 5231 | sp|Q8VZG7|TSN1\_ARATH | MATGAENQWLKGRVKAVTSGDCLVITALSHNRAGPPPEKTITFSSLMAPKMARRGGIDEPFAWESKEFLRKLCIGKEVAFKVDYKVEAIAGREFGSVFLGNENLAKLVVKTGWAKVREPGQQNQDKVSPYIKELLQLEELAKQEGYGRWSKVPGAAEASIRNLPPSAIGDSAGFDAMGLLAANKGKPMEGIVEQVRDGSTIRVYLLPEFQFVQVFVAGVQAPSMGRRTTNGSVVETVPDEPNGDVSAESRGPLTTAQRLAASAASSVEVSSDPFATEAKYFTEHRVLSRDVRIVLEGVDKFNNLIGSVHYSDGETVKDLGLELVENGLAKFVEWSANMMEEEAKKKLKAAELQCKKDKVKMWANYVPPATNSKAIHDQNFTGKVVEVVSGDCLIVADDAVPFGSPAAERRVCLSSIRSPKMGNPRREEKPAPYAREAREFLRQRLIGKQVIVQMEYSRKVTQGDGPTTSGAADRFMDFGSVFLPSAAKADSDEVTAPPAAAIAGSQPVGVNIAELVLVRGFGNVVRHRDFEERSNHYDALLAAEARALAGKKGIHSAKESPAMHITDLTVSAAKKAKDFLPSLQRIRRIPAVVEYVLSGHRFKLYIPKITCSIAFSFSGVRCPGRGEPYSEEAISVMRRRIMQRDVEIEVETVDRTGTFLGSMWESRTNVATVLLEAGLAKMQTSFGADRIAEAHLLEQAERSAKNQKLKIWENYVEGEEVSNGNTNTVETRQKETLKVVVTEVLGGGRFYVQSAGDQKIASIQNQLASLSIKDAPIIGSFNPKRGDIVLAQFSLDNSWNRAMIVTAPRAAVQSPDEKFEVFYIDYGNQETVPYSAIRPIDPSVSAAPGLAQLCRLAYIKVPSLEDDFGPEAGEYLHTVTLGSGKEFKAVIEERDTSGGKVKGQGTGTEFVVTLIAVDDEISVNAAMLQEGIARMEKRQKWGHKGKQAALDALEKFQEEARKSRIGIWQYGDIESDDEDTGPARKPAGGRR |
| 5232 | sp|Q6IBS0|TWF2\_HUMAN | MAHQTGIHATEELKEFFAKARAGSVRLIKVVIEDEQLVLGASQEPVGRWDQDYDRAVLPLLDAQQPCYLLYRLDSQNAQGFEWLFLAWSPDNSPVRLKMLYAATRATVKKEFGGGHIKDELFGTVKDDLSFAGYQKHLSSCAAPAPLTSAERELQQIRINEVKTEISVESKHQTLQGLAFPLQPEAQRALQQLKQKMVNYIQMKLDLERETIELVHTEPTDVAQLPSRVPRDAARYHFFLYKHTHEGDPLESVVFIYSMPGYKCSIKERMLYSSCKSRLLDSVEQDFHLEIAKKIEIGDGAELTAEFLYDEVHPKQHAFKQAFAKPKGPGGKRGHKRLIRGPGENGDDS |
| 5233 | sp|Q13432|U119A\_HUMAN | MKVKKGGGGAGTATESAPGPSGQSVAPIPQPPAESESGSESEPDAGPGPRPGPLQRKQPIGPEDVLGLQRITGDYLCSPEENIYKIDFVRFKIRDMDSGTVLFEIKKPPVSERLPINRRDLDPNAGRFVRYQFTPAFLRLRQVGATVEFTVGDKPVNNFRMIERHYFRNQLLKSFDFHFGFCIPSSKNTCEHIYDFPPLSEELISEMIRHPYETQSDSFYFVDDRLVMHNKADYSYSGTP |
| 5234 | sp|P06785|TYSY\_YEAST | MTMDGKNKEEEQYLDLCKRIIDEGEFRPDRTGTGTLSLFAPPQLRFSLRDDTFPLLTTKKVFTRGIILELLWFLAGDTDANLLSEQGVKIWDGNGSREYLDKMGFKDRKVGDLGPVYGFQWRHFGAKYKTCDDDYTGQGIDQLKQVIHKLKTNPYDRRIIMSAWNPADFDKMALPPCHIFSQFYVSFPKEGEGSGKPRLSCLLYQRSCDMGLGVPFNIASYALLTRMIAKVVDMEPGEFIHTLGDAHVYKDHIDALKEQITRNPRPFPKLKIKRDVKDIDDFKLTDFEIEDYNPHPRIQMKMSV |
| 5235 | sp|Q8NBM4|UBAC2\_HUMAN | MFTSTGSSGLYKAPLSKSLLLVPSALSLLLALLLPHCQKLFVYDLHAVKNDFQIWRLICGRIICLDLKDTFCSSLLIYNFRIFERRYGSRKFASFLLGSWVLSALFDFLLIEAMQYFFGITAASNLPSGFLAPVFALFVPFYCSIPRVQVAQILGPLSITNKTLIYILGLQLFTSGSYIWIVAISGLMSGLCYDSKMFQVHQVLCIPSWMAKFFSWTLEPIFSSSEPTSEARIGMGATLDIQRQQRMELLDRQLMFSQFAQGRRQRQQQGGMINWNRLFPPLRQRQNVNYQGGRQSEPAAPPLEVSEEQVARLMEMGFSRGDALEALRASNNDLNVATNFLLQH |
| 5236 | sp|P98066|TSG6\_HUMAN | MIILIYLFLLLWEDTQGWGFKDGIFHNSIWLERAAGVYHREARSGKYKLTYAEAKAVCEFEGGHLATYKQLEAARKIGFHVCAAGWMAKGRVGYPIVKPGPNCGFGKTGIIDYGIRLNRSERWDAYCYNPHAKECGGVFTDPKQIFKSPGFPNEYEDNQICYWHIRLKYGQRIHLSFLDFDLEDDPGCLADYVEIYDSYDDVHGFVGRYCGDELPDDIISTGNVMTLKFLSDASVTAGGFQIKYVAMDPVSKSSQGKNTSTTSTGNKNFLAGRFSHL |
| 5237 | sp|Q9D411|TSSK4\_MOUSE | MGKGDTSETASATPAYRSVMEEYGYEVGKIIGHGSYGTVYEAYYTKQKVMVAVKIISKKKASEDYLNKFLPREIQVMKVLRHKYLINFYQAIETTSRVYIILELAQGGDVLEWIQRYGACAETLAGKWFSQMALGIAYLHSKGIVHRDLKLENLLLDKRENVKISDFGFAKMVPSSQPVHSSPSYRQMNSLSHLSQTYCGSFAYACPEILLGLPYNPFLSDTWSMGVILYTLVVARLPFDDTNLKKLLRETQKEVTFPANLTISQECKNLILQLLRQSTKRATILDVLRDPWMLKFQPEQPSNEIRLLEAMYQPTSSAKRHQSLEITT |
| 5238 | sp|P06104|UBC2\_YEAST | MSTPARRRLMRDFKRMKEDAPPGVSASPLPDNVMVWNAMIIGPADTPYEDGTFRLLLEFDEEYPNKPPHVKFLSEMFHPNVYANGEICLDILQNRWTPTYDVASILTSIQSLFNDPNPASPANVEAATLFKDHKSQYVKRVKETVEKSWEDDMDDMDDDDDDDDDDDDDEAD |
| 5239 | sp|P22893|TTP\_MOUSE | MDLSAIYESLQSMSHDLSSDHGGTESLGGLWNINSDSIPSGVTSRLTGRSTSLVEGRSCGWVPPPPGFAPLAPRPGPELSPSPTSPTATPTTSSRYKTELCRTYSESGRCRYGAKCQFAHGLGELRQANRHPKYKTELCHKFYLQGRCPYGSRCHFIHNPTEDLALPGQPHVLRQSISFSGLPSGRRSSPPPPGFSGPSLSSCSFSPSSSPPPPGDLPLSPSAFSAAPGTPVTRRDPNQACCPSCRRSTTPSTIWGPLGGLARSPSAHSLGSDPDDYASSGSSLGGSDSPVFEAGVFGPPQTPAPPRRLPIFNRISVSE |
| 5240 | sp|Q7TSS2|UB2Q1\_MOUSE | MQQPQPQGQQQPGPGQQLGVQGAAPGAGGGPGGGPGPGPCLRRELKLLESIFHRGHERFRIASACLDELSCEFLLAGAGGAGAGAAPGPHLPSRGSVPGDPVRIHCNITESYPAVPPIWSVESDDPNLAAVLERLVDIKKGNTLLLQHLKRIISDLCKLYNLPQHPDVEMLDQPLPAEQCTQEEVSSEDEDEEMPEDTEDLDHYEMKEEEPAEGKKSEDDGIGKENLAILEKIKKNQRQDYLNGAVSGSVQATDRLMKELRDIYRSQSFKGGNYAVELVNDSLYDWNVKLLKVDQDSALHNDLQILKEKEGADFILLNFSFKDNFPFDPPFVRVVSPVLSGGYVLGGGAICMELLTKQGWSSAYSIESVIMQISATLVKGKARVQFGANKSQYSLTRAQQSYKSLVQIHEKNGWYTPPKEDG |
| 5241 | sp|P48994|TRPL\_DROME | MGRKKKLPTGVSSGVSHASSAPKSVGGCCVPLGLPQPLLLEEKKFLLAVERGDMPNVRRILQKALRHQHININCMDPLGRRALTLAIDNENLEMVELLVVMGVETKDALLHAINAEFVEAVELLLEHEELIYKEGEPYSWQKVDINTAMFAPDITPLMLAAHKNNFEILRILLDRGAAVPVPHDIRCGCEECVRLTAEDSLRHSLSRVNIYRALCSPSLICLTSNDPIITAFQLSWELRNLALTEQECKSEYMDLRRQCQKFAVDLLDQTRTSNELAIILNYDPQMSSYEPGDRMSLTRLVQAISYKQKKFVAHSNIQQLLSSIWYDGLPGFRRKSIVDKVICIAQVAVLFPLYCLIYMCAPNCRTGQLMRKPFMKFLIHASSYLFFLFILILVSQRADDDFVRIFGTTRMKKELAEQELRQRGQTPSKLELIVVMYVIGFVWEEVQEIFAVGMKSYLRNMWNFIDFLRNSLYVSVMCLRAFAYIQQATEIARDPQMAYIPREKWHDFDPQLIAEGLFAAANVFSALKLVHLFSINPHLGPLQISLGRMVIDIVKFFFIYTLVLFAFACGLNQLLWYFAALEKSKCYVLPGGEADWGSHGDSCMKWRRFGNLFESSQSLFWASFGMVGLDDFELSGIKSYTRFWGLLMFGSYSVINVIVLLNLLIAMMSNSYAMIDEHSDTEWKFARTKLWMSYFEDSATLPPPFNVLPSVKWVIRIFRKSSKTIDRQRSKKRKEQEQFSEYDNIMRSLVWRYVAAMHRKFENNPVSEDDINEVKSEINTMRYEMLEIFENSGMDVSSANKKERQPRPRRIKVWERRLMKGFQVAPVQNGCELDAFGNVNGQGEMQEIKVESIPSKPAKETAKERFQRVARTVLLQSTTHKWNVVLRAAKDSQIGRCTKNERKSLQNLGRAIEEAKRLIMLNPGCPSGRESPIRIEFEDEKTSTLLELLNQISAEISDSEKPKIRPIWRPPLKTVPARAMAANNTRSLTAPELKISRKSSPAPTPTPTPGVSHTALSQFRNRELPLCPSKLIANSAPSAPTAPPKKSAPTAPTPTYKPTTHAPFSVEGGNRENTRASDGVRSDNSNFDIHVVDLDEKGGHLGRDNVSDISSIASTSPQRPKHRN |
| 5242 | sp|Q9HBA0|TRPV4\_HUMAN | MADSSEGPRAGPGEVAELPGDESGTPGGEAFPLSSLANLFEGEDGSLSPSPADASRPAGPGDGRPNLRMKFQGAFRKGVPNPIDLLESTLYESSVVPGPKKAPMDSLFDYGTYRHHSSDNKRWRKKIIEKQPQSPKAPAPQPPPILKVFNRPILFDIVSRGSTADLDGLLPFLLTHKKRLTDEEFREPSTGKTCLPKALLNLSNGRNDTIPVLLDIAERTGNMREFINSPFRDIYYRGQTALHIAIERRCKHYVELLVAQGADVHAQARGRFFQPKDEGGYFYFGELPLSLAACTNQPHIVNYLTENPHKKADMRRQDSRGNTVLHALVAIADNTRENTKFVTKMYDLLLLKCARLFPDSNLEAVLNNDGLSPLMMAAKTGKIGIFQHIIRREVTDEDTRHLSRKFKDWAYGPVYSSLYDLSSLDTCGEEASVLEILVYNSKIENRHEMLAVEPINELLRDKWRKFGAVSFYINVVSYLCAMVIFTLTAYYQPLEGTPPYPYRTTVDYLRLAGEVITLFTGVLFFFTNIKDLFMKKCPGVNSLFIDGSFQLLYFIYSVLVIVSAALYLAGIEAYLAVMVFALVLGWMNALYFTRGLKLTGTYSIMIQKILFKDLFRFLLVYLLFMIGYASALVSLLNPCANMKVCNEDQTNCTVPTYPSCRDSETFSTFLLDLFKLTIGMGDLEMLSSTKYPVVFIILLVTYIILTFVLLLNMLIALMGETVGQVSKESKHIWKLQWATTILDIERSFPVFLRKAFRSGEMVTVGKSSDGTPDRRWCFRVDEVNWSHWNQNLGIINEDPGKNETYQYYGFSHTVGRLRRDRWSSVVPRVVELNKNSNPDEVVVPLDSMGNPRCDGHQQGYPRKWRTDDAPL |
| 5243 | sp|P49459|UBE2A\_HUMAN | MSTPARRRLMRDFKRLQEDPPAGVSGAPSENNIMVWNAVIFGPEGTPFEDGTFKLTIEFTEEYPNKPPTVRFVSKMFHPNVYADGSICLDILQNRWSPTYDVSSILTSIQSLLDEPNPNSPANSQAAQLYQENKREYEKRVSAIVEQSWRDC |
| 5244 | sp|Q96LR5|UB2E2\_HUMAN | MSTEAQRVDDSPSTSGGSSDGDQRESVQQEPEREQVQPKKKEGKISSKTAAKLSTSAKRIQKELAEITLDPPPNCSAGPKGDNIYEWRSTILGPPGSVYEGGVFFLDITFSPDYPFKPPKVTFRTRIYHCNINSQGVICLDILKDNWSPALTISKVLLSICSLLTDCNPADPLVGSIATQYMTNRAEHDRMARQWTKRYAT |
| 5245 | sp|E1BMF7|UBP13\_BOVIN | MQRRGALFGMPGGSGSRKMAAGDIGELLVPHMPTIRVPRSGDRVYKNECAFSYDSPNSEGGLYVCMNTFLAFGREHVERHFRKTGQSVYMHLKRHVREKVRGASGGALPKRRNSKMFLDLDTDDDLNSDDYEYEDEAKLVIFPDHYEIALPNIEELPALVTIACDAVLSSKSPYRKQDPDTWENELPVSKYANNLTQLDNGVRIPPSGWKCARCDLRENLWLNLTDGSVLCGKWFFDSSGGNGHALEHYRDTGYPLAVKLGTITPDGADVYSFQEEEAVLDPHLAKHLAHFGIDMLHMHGTENGLQDNDIKPRVSEWEVIQETGTKLKPMYGPGYTGLKNLGNSCYLSSVMQAIFSIPEFQRAYVGNLPRIFDYSPLDPTQDFNTQMTKLGHGLLSGQYSKPPVKSELIEQVMKEEHKPQQNGISPRMFKAFVSKSHPEFSSNRQQDAQEFFLHLVNLVERNRIGSENPSDVFRFLVEERIQCCQTRKVRYTERVDYLMQLPVAMEAATNKDELIAYELTRREAESNRRPLPELVRAKIPFSACLQAFSEPENVDDFWSSALQAKSAGVKTSRFASFPEYLVVQIKKFTFGLDWVPKKFDVSVDMPDLLDINHLRARGLQPGEEELPDISPPIVIPDDSKDRLMTQLIDPSDIDESSVMQLAEMGFPLEACRKAVYFTGNMGAEVAFNWIVVHMEEPDFAEPLTMPGYGGAASAGASVFGATGLDNQPPEETVAIITSMGFHRNQAIQALRATNSNLERALDWIFSHPEFEEDSDFVIEMENNANANIVSEAKPEGPRVKDGSGMYELFAFISHMGTSTMSGHYVCHIKKEGRWVIYNDHKVCASERPPKDLGYMYFYRRIPS |
| 5246 | sp|Q5U5Q9|UIMC1\_MOUSE | MPRRKKKIKEASESQNLEKKDLETSSCVSIKKKRRLEDLLIVISDSDGEETKEENGLQKTKTKQSNRSKCLAKRKVAHMSEEEQFALALKMSEQEAREVNNQEEKEEELLRKAIAESLNSCWSSAASATRSRPLAAELSSHSHQENTKDSGTTEGVWQLVPPSLCKGSHVSQGNEAEQRKEPWDHNENTEEEPVSGSSGSWDQSSQPVFENENVKCFDRCTGHLAEHTQCGKPQESTGSGYAFSKAVQGRGDTSRQCLPIPADTKGLQDTGGTVHYYWGIPFCPAGVDPNQYTNVILCQLEVYQKSLKMAQRQLVKKRGFGEPVLPRPPFLIQNECGQEDQTSDKNEGISEDMGDEAKEERQESRASVWHSETKDFQKSPIKSLKQKLLLEEEPTTSRGQSSQGLFVEETSEEGLKSSEGDNSVPTTQSIAALTSKRSLVLMPESSAEEITVCPETQLSFLEPLDLNREDSPDSRELPIEVRMAVGDKQVANREDCMKENPPPAVSSSTRVSCPLCNQDFPPTKIEQHAMYCNGLMEQETVLTRRRREAKNKSDGRTAAQPALDANRKEKCYLCKSLVPLGEYQCHVEACLQLAKVDREDGIEGTRRPRVCAPVEGKQQQRLKKSKDKGHSQGRLLSLLEQSEHRTTGVEKKPKYSEVRTFRMPSPEVEEASCSREMQSTLSQLNLNESPIKSFVPVSEATNCLVDFKEQFAFRSRTKSGRGRRRKS |
| 5247 | sp|P29598|UROK\_RAT | MRVWLASLFLCALVANSEGGSELEASDESNCGCQNGGVCVSYKYFSSIRRCSCPKKFKGEHCEIDTSKTCYHGNGQSYRGKANTDTKGRPCLAWNSPAVLQQTYNAHRSDALSLGLGKHNYCRNPDNQRRPWCYVQIGLKQFVQECMVQDCSLSKKPSSTVDQQGFQCGQKALRPRFKIVGGEFTVVENQPWFAAIYLKNKGGSPPSFKCGGSLISPCWVASATHCFVNQPKKEEYVVYLGQSKRNSYNPGEMKFEVEQLILHEDFSDETLAFHNDIALLKIRTSTGQCAQPSRTIQTICLPPRFGDAPFGSDCEITGFGQESATDYFYPKDLKMSVVKIISHEQCKQPHYYGSEINYKMLCAADPEWKTDSCSGDSGGPLICNIDGRPTLSGIVSWGSGCAEKNKPGVYTRVSYFLNWIQSHIGEENGLAF |
| 5248 | sp|Q08562|ULS1\_YEAST | MAAVPTIDLTLADSDNEDIFHSFSSSTSVDKIDIRKENGKLRMAGLEVAQSNDDAARQAFHVFKTNISNNETFDTILSKSKTITDSTFNNEKSSNEVKQQQVLKEETMGSSNDEKKTQESSPSAEMIKLFYENDDVPLSDSFKQKEEGKRINQDEQVKENICGISSSYVSKDYDGVEDDFEPNTCQDSNLDFQEEKLNLNNKPSQQQFSDPETKDNSLKSENKDQIKGVTTTSYRDLPIESSAFQDSETQNNSKNTIPNIVNEKRTPALPSNLSSVESSLKNETAKVEGKTTVRLPGLQNNVALLEQEQSELFKHFSEQPVDISDFGRKIKRKHSGDFADNKILKRPILPSKNMDHTTHNSHDSEQKNSSIIILSDEDESGAGINDIESPLKVSEPNTADALRSSVPEVISLLDLPNIDLNNSVIKEASGSNSIPTSETDAQSSSSSVLQGTIMTEQATQSSQHECNSSLDTLKKNHQKLLKDLNSRESELRNALSCCKTNSEILRRKLSRREKEVSDAEKHWQLLLTSMARGGRTISSTQQILVDEAENQLNKLKEKRQLTKSKLDSINLKMYNYNEQWKSFVHSKNINLQKSLAALERSARDSKASATVNKRNECLAEKEKLDQMLKEGTLSFSTYKQLTGEIQQKLNDLKLGDQRTTDINSVLPIVRQPLAKRDLFIKSIDTAKDLLAKNTSRTEMTKRILYRHLDNLVSYKNFFEDGRSLIDINRRHVAHESAQILFTNGVKMPIVFETLQDYGIKFSNPAIVNPDRRAQYFKSIEVARDLISKSTRSEDAKRKITRFLNIIEEFRKDIDTGFPPTPLKREGVGKAVVGLRQQGLKMDRLYENLRRYKIPITSEELLQQSYLFPVNADQRPPSNWNIVENTEDTSSTANDLSMQDEFHISNMHAAEDQEQIRALLENVKQSESIIDGEALTPEDMTVNLLKHQRLGLHWLLQVENSAKKGGLLADDMGLGKTIQAIALMLANRSEESKCKTNLIVAPVSVLRVWKGELETKVKKRAKFTTFIFGGSGNGKVKHWRDLARYDAVLVSYQTLANEFKKHWPKKLDGEQNQLPAVPHIQALNRLKTSNEYYSPFFCNDSTFYRILLDEGQNIKNKNTRASKACCTINGMYRWVLSGTPIQNSMDELYSLIRFLRIPPYHKEQRFKLDIGRFFQRNKQYQYDNEDRKNALRKVRVLLNAIMLRRSKADKIDGKPLLELPPKIVEVDESRLKGEELKFYTALESKNQALAKKLLNNSTRGSYSSVLTLLLRLRQACCHSELVVMGEKKAEGTKVANGKSFEDDWLRLYYKITHMSGEAQAQVITSMNSMTCFWCMEQLEPEAMSVLTGCGHLICDTCIEPFIEESSMLPQAKKTKGGAFAIPCKDCQRLTNEKDIVSHKLYDQVINQGFTEEDLHAEYLSEMEKQKIQQKNVYVPNFESLEPSTKIEQCIQVIQRVFDESATEKIIIFSQFTTFFEILEHFLKNKLNFPYLKYIGSMNAQRRSDVINEFYRDPEKRILLISMKAGNSGLTLTCANHVVIVDPFWNPYVEEQAQDRCYRISQTKKVQVHKLFIKDSVEDRISELQKRKKEMVDSAMDPGKIKEVNSLGRRELGFLFGLNAL |
| 5249 | sp|Q03010|UME1\_YEAST | MSTLDIAEDNKIKNEEFKIWKKSIPSLYQHISSLKPIFGSGVDESPSTLRSIVFTNDSSCNKSKGVLSVPLLYSQGSEIFEVDCIVPLGLHYKKPESISEPLVQPDYTMESQKVEQTVLIPKWEFKGETIAKMIYVDNSEINVKVIALSTNGSLAWFREGVKSPVYTMMEPSTSLSSASSGNQNKPCVDFAISNDSKTLTVTKEKHLDNENATIKLIDNSGKIGEVLRTIPVPGIKNIQEIKFLNNQIFATCSDDGIIRFWGNEIGKKPLWILNDSLDGKTTCFAASPFVDTLFMTGTSGGALKVWDIRAVIALGDADAELNINQGHNKVNELFKVHHFYSEQVSKIEFSSISPMEVVTIGGLGNVYHWNFEPVFAIYNEIHEDFQGIISDELEAESMAFYHTEGCRREIGENNKVNTVAYHKYIEDLVATVDSDGLLTVYKPFTGKVLDGSREVGAAKS |
| 5250 | sp|Q93705|UNC3\_CAEEL | MSLTAPLRAGQMNFYDEPYNPVLNLHIQPSVKDENQRSTWPIIDTSNTSTQIARAHFEKHPPNNLRKSNFFHFVIALYDRNSQPIEVERTQFAGFVEKEKEVDGQDTRNGIHYRLSLMFQNGIRSEHDLFVRLIDSSTKQAITYEGQDKNPEMCRVLLTHEVMCSRCCEKKSCGNRNETPSDPVIIDRFFLKFFLKCNQNCLKNAGNPRDMRRFQVVLCSSARIDGPLLAVSDNMFVHNNSKHGRRTKRTDASDDSEYSESAELPSSVPVIKALFPSEGWIQGGTQVVLIGENFFEGLQVAFGTASPNWGESVQLISPHAIRVTTPPKHSAGPVDVTLQYKSKTYSRGTPLRFSYITLAEPGIEYGFQRLQKLLPKYPGDPERLPKDQILKRAAELAEALYNRTSTESLSSYYHTQFDATSDYAARTHTSPRSTLPYGAGPPALSSAVYQTSYPTVNATPAANFLNTQTGFATFGAVNPFAATLQSSSRLS |
| 5251 | sp|Q9BRU9|UTP23\_HUMAN | MKITRQKHAKKHLGFFRNNFGVREPYQILLDGTFCQAALRGRIQLREQLPRYLMGETQLCTTRCVLKELETLGKDLYGAKLIAQKCQVRNCPHFKNAVSGSECLLSMVEEGNPHHYFVATQDQNLSVKVKKKPGVPLMFIIQNTMVLDKPSPKTIAFVKAVESGQLVSVHEKESIKHLKEEQGLVKNTEQSRRKKRKKISGPNPLSCLKKKKKAPDTQSSASEKKRKRKRIRNRSNPKVLSEKQNAEGE |
| 5252 | sp|Q9VBY8|UN13B\_DROME | MDEEQMWKGFFFKLQELKMNPPTEHEHQLQDGDDGFFEKFGSLLRQKSQIDEGVLKSSLAPLEENGSGGEEDSDESPDGTLQLSQDSECTSIDTFATESTLASSSDKDISTSVLDSAPVMNVTDLYEEILFEIFNNIGCENNEECTNSLVEFVQDAFKIPNATHEEIYEAARLKEPPNVRLNVEIIKAENLMSKDSNGLSDPFVTLYLESNGSHRYNSSVKPATLNPIWEEHFSLPITENARDEVLIVEVWDFDAAETVKEKVNKILDVKGVKGLSKLMKEIAVTASSGKHDNELIGRAAITLKSIPVSGLTVWYNLEKGSKGRSRGSLLVNLALSAEKNKSVAVQEHKNLLKLLLMYELETSQVANYWWSGKFSPNAELIRSQHAAQSGLTPFDCALSQWHAYSTIHETHKLNFTLFNSILDVVVPVITYMQNDSEDVKTFWDGVKRLLPSCFAVLRKLRSKNTSDKNIIRALNEVLDILKKIKELEVPESVDIFPKSVYGWLHTNDTDETCNIDTAIEDAINTGTREWLEHIVEGSRQSKNTETDDEKLQYVIKLIQMVRSDLQRAMEYFDKIFYHKIQLNYSAVLYLFYDSKLAEICKSIIIEVCNNIKRLDVPDDQFEYLPNLENVNMGTTLFEVYLILKRYVQLGESLCSEPLELSNFYPWFERGVTHWLDISIIKALSRIQKAIDLDQLKAVDETVKYSSSAVDTLSIFYQIKIFWQQLDWPEVEGSYIFVAKIVNDLCRCCIFYAQQMSRRVENIFIADDNNKNFILSEEWCIAINNMDYIRQSLPSFIKELSIDDIIKRLGEYRTNLEAERCASTIKTVIENALDTERNQIVELIEIVARKMAPPIRRYLAEGAEVLAKDSNSMDQLMMYLESSLATLYDTLNEINFQRILDGIWSELSIIMYDLIQSNLDKRRPPAFFQNLNNTLQTMMDCFKMGNLQTSDIKILSSIQSRLRLYSLETSDLIHQYYLERLENQKSQESSPYGQLTITAQLTDTGLLLNILNARNLLPMDSNGSVDSFVKASFMPTSRFNDVPTVKTNVHNKSCFPLYDQEFRINLSDHQRSEKNSLIVFSIKDKDLFGMSSQYIAESYISFADLEATPPGEQIMMNLSRPEYTDSESLRALEYRLGDKQAKDFLKKLKNRSFS |
| 5253 | sp|O95185|UNC5C\_HUMAN | MRKGLRATAARCGLGLGYLLQMLVLPALALLSASGTGSAAQDDDFFHELPETFPSDPPEPLPHFLIEPEEAYIVKNKPVNLYCKASPATQIYFKCNSEWVHQKDHIVDERVDETSGLIVREVSIEISRQQVEELFGPEDYWCQCVAWSSAGTTKSRKAYVRIAYLRKTFEQEPLGKEVSLEQEVLLQCRPPEGIPVAEVEWLKNEDIIDPVEDRNFYITIDHNLIIKQARLSDTANYTCVAKNIVAKRKSTTATVIVYVNGGWSTWTEWSVCNSRCGRGYQKRTRTCTNPAPLNGGAFCEGQSVQKIACTTLCPVDGRWTPWSKWSTCGTECTHWRRRECTAPAPKNGGKDCDGLVLQSKNCTDGLCMQTAPDSDDVALYVGIVIAVIVCLAISVVVALFVYRKNHRDFESDIIDSSALNGGFQPVNIKAARQDLLAVPPDLTSAAAMYRGPVYALHDVSDKIPMTNSPILDPLPNLKIKVYNTSGAVTPQDDLSEFTSKLSPQMTQSLLENEALSLKNQSLARQTDPSCTAFGSFNSLGGHLIVPNSGVSLLIPAGAIPQGRVYEMYVTVHRKETMRPPMDDSQTLLTPVVSCGPPGALLTRPVVLTMHHCADPNTEDWKILLKNQAAQGQWEDVVVVGEENFTTPCYIQLDAEACHILTENLSTYALVGHSTTKAAAKRLKLAIFGPLCCSSLEYSIRVYCLDDTQDALKEILHLERQMGGQLLEEPKALHFKGSTHNLRLSIHDIAHSLWKSKLLAKYQEIPFYHVWSGSQRNLHCTFTLERFSLNTVELVCKLCVRQVEGEGQIFQLNCTVSEEPTGIDLPLLDPANTITTVTGPSAFSIPLPIRQKLCSSLDAPQTRGHDWRMLAHKLNLDRYLNYFATKSSPTGVILDLWEAQNFPDGNLSMLAAVLEEMGRHETVVSLAAEGQY |
| 5254 | sp|Q8E372|UCDH\_STRA3 | MMKIKPVKVESIENPKRFLNSRLLTKIEVEEAIEKALKQLYINIDYFGEEYPTPATFNNIYKVMDNTEWTNGFWTGCLWLAYEYNQDKKLKNIAHKNVLSFLNRINNRIALDHHDLGFLYTPSCTAEYRINGDVKALEATIKAADKLMERYQEKGGFIQAWGELGYKEHYRLIIDCLLNIQLLFFAYEQTGDEKYRQVAVNHFYASANNVVRDDSSAFHTFYFDPETGEPLKGVTRQGYSDESSWARGQAWGIYGIPLSYRKMKDYQQIILFKGMTNYFLNRLPEDKVSYWDLIFTDGSGQPRDTSATATAVCGIHEMLKYLPEVDPDKETYKYAMHTMLRSLIEQYSNNELIAGRPLLLHGVYSWHSGKGVDEGNIWGDYYYLEALIRFYKDWELYW |
| 5255 | sp|P54855|UDB15\_HUMAN | MSLKWTSVFLLIQLSCYFSSGSCGKVLVWPTEYSHWINMKTILEELVQRGHEVTVLTSSASTLVNASKSSAIKLEVYPTSLTKNYLEDSLLKILDRWIYGVSKNTFWSYFSQLQELCWEYYDYSNKLCKDAVLNKKLMMKLQESKFDVILADALNPCGELLAELFNIPFLYSLRFSVGYTFEKNGGGFLFPPSYVPVVMSELSDQMIFMERIKNMIHMLYFDFWFQIYDLKKWDQFYSEVLGRPTTLFETMGKAEMWLIRTYWDFEFPRPFLPNVDFVGGLHCKPAKPLPKEMEEFVQSSGENGIVVFSLGSMISNMSEESANMIASALAQIPQKVLWRFDGKKPNTLGSNTRLYKWLPQNDLLGHPKTKAFITHGGTNGIYEAIYHGIPMVGIPLFADQHDNIAHMKAKGAALSVDIRTMSSRDLLNALKSVINDPVYKENVMKLSRIHHDQPMKPLDRAVFWIEFVMRHKGAKHLRVAAHNLTWIQYHSLDVIAFLLACVATVIFIITKFCLFCFRKLAKKGKKKKRD |
| 5256 | sp|Q8TED0|UTP15\_HUMAN | MAGYKPVAIQTYPILGEKITQDTLYWNNYKTPVQIKEFGAVSKVDFSPQPPYNYAVTASSRIHIYGRYSQEPIKTFSRFKDTAYCATFRQDGRLLVAGSEDGGVQLFDISGRAPLRQFEGHTKAVHTVDFTADKYHVVSGADDYTVKLWDIPNSKEILTFKEHSDYVRCGCASKLNPDLFITGSYDHTVKMFDARTSESVLSVEHGQPVESVLLFPSGGLLVSAGGRYVKVWDMLKGGQLLVSLKNHHKTVTCLCLSSSGQRLLSGSLDRKVKVYSTTSYKVVHSFDYAASILSLALAHEDETIVVGMTNGILSVKHRKSEAKKESLPRRRRPAYRTFIKGKNYMKQRDDILINRPAKKHLELYDRDLKHFRISKALDRVLDPTCTIKTPEITVSIIKELNRRGVLANALAGRDEKEISHVLNFLIRNLSQPRFAPVLINAAEIIIDIYLPVIGQSPVVDKKFLLLQGLVEKEIDYQRELLETLGMMDMLFATMRRKEGTSVLEHTSDGFPENKKIES |
| 5257 | sp|Q13564|ULA1\_HUMAN | MAQLGKLLKEQKYDRQLRLWGDHGQEALESAHVCLINATATGTEILKNLVLPGIGSFTIIDGNQVSGEDAGNNFFLQRSSIGKNRAEAAMEFLQELNSDVSGSFVEESPENLLDNDPSFFCRFTVVVATQLPESTSLRLADVLWNSQIPLLICRTYGLVGYMRIIIKEHPVIESHPDNALEDLRLDKPFPELREHFQSYDLDHMEKKDHSHTPWIVIIAKYLAQWYSETNGRIPKTYKEKEDFRDLIRQGILKNENGAPEDEENFEEAIKNVNTALNTTQIPSSIEDIFNDDRCINITKQTPSFWILARALKEFVAKEGQGNLPVRGTIPDMIADSGKYIKLQNVYREKAKKDAAAVGNHVAKLLQSIGQAPESISEKELKLLCSNSAFLRVVRCRSLAEEYGLDTINKDEIISSMDNPDNEIVLYLMLRAVDRFHKQQGRYPGVSNYQVEEDIGKLKSCLTGFLQEYGLSVMVKDDYVHEFCRYGAAEPHTIAAFLGGAAAQEVIKIITKQFVIFNNTYIYSGMSQTSATFQL |
| 5258 | sp|Q8TEY7|UBP33\_HUMAN | MTGSNSHITILTLKVLPHFESLGKQEKIPNKMSAFRNHCPHLDSVGEITKEDLIQKSLGTCQDCKVQGPNLWACLENRCSYVGCGESQVDHSTIHSQETKHYLTVNLTTLRVWCYACSKEVFLDRKLGTQPSLPHVRQPHQIQENSVQDFKIPSNTTLKTPLVAVFDDLDIEADEEDELRARGLTGLKNIGNTCYMNAALQALSNCPPLTQFFLDCGGLARTDKKPAICKSYLKLMTELWHKSRPGSVVPTTLFQGIKTVNPTFRGYSQQDAQEFLRCLMDLLHEELKEQVMEVEEDPQTITTEETMEEDKSQSDVDFQSCESCSNSDRAENENGSRCFSEDNNETTMLIQDDENNSEMSKDWQKEKMCNKINKVNSEGEFDKDRDSISETVDLNNQETVKVQIHSRASEYITDVHSNDLSTPQILPSNEGVNPRLSASPPKSGNLWPGLAPPHKKAQSASPKRKKQHKKYRSVISDIFDGTIISSVQCLTCDRVSVTLETFQDLSLPIPGKEDLAKLHSSSHPTSIVKAGSCGEAYAPQGWIAFFMEYVKRFVVSCVPSWFWGPVVTLQDCLAAFFARDELKGDNMYSCEKCKKLRNGVKFCKVQNFPEILCIHLKRFRHELMFSTKISTHVSFPLEGLDLQPFLAKDSPAQIVTYDLLSVICHHGTASSGHYIAYCRNNLNNLWYEFDDQSVTEVSESTVQNAEAYVLFYRKSSEEAQKERRRISNLLNIMEPSLLQFYISRQWLNKFKTFAEPGPISNNDFLCIHGGVPPRKAGYIEDLVLMLPQNIWDNLYSRYGGGPAVNHLYICHTCQIEAEKIEKRRKTELEIFIRLNRAFQKEDSPATFYCISMQWFREWESFVKGKDGDPPGPIDNTKIAVTKCGNVMLRQGADSGQISEETWNFLQSIYGGGPEVILRPPVVHVDPDILQAEEKIEVETRSL |
| 5259 | sp|O88623|UBP2\_MOUSE | MSQLSSTLKRYTESSRYTDAPYAKPGYGTYTPSSYGANLAASFLEKEKLGFKPVSPTSFLPRPRTYGPSSILDCDRGRPLLRSDIIGSSKRSESQTRGNERPSGSGLNGGSGFSYGVSSNSLSYLPMNARDQGVTLSQKKSNSQSDLARDFSSLRTSDGYRTSEGFRIDPGNLGRSPMLARTRKELCALQGLYQAASRSEYLTDYLENYGRKGSAPQVLTQAPPPSRVPEVLSPTYRPSGRYTLWEKSKGQASGPSRSSSPGRDTMNSKSAQGLAGLRNLGNTCFMNSILQCLSNTRELRDYCLQRLYMRDLGHTSSAHTALMEEFAKLIQTIWTSSPNDVVSPSEFKTQIQRYAPRFMGYNQQDAQEFLRFLLDGLHNEVNRVAARPKASPETLDHLPDEEKGRQMWRKYLEREDSRIGDLFVGQLKSSLTCTDCGYCSTVFDPFWDLSLPIAKRGYPEVTLMDCMRLFTKEDILDGDEKPTCCRCRARKRCIKKFSVQRFPKILVLHLKRFSESRIRTSKLTTFVNFPLRDLDLREFASENTNHAVYNLYAVSNHSGTTMGGHYTAYCRSPVTGEWHTFNDSSVTPMSSSQVRTSDAYLLFYELASPPSRM |
| 5260 | sp|P35125|UBP6\_HUMAN | MDMVENADSLQAQERKDILMKYDKGHRAGLPEDKGPEPVGINSSIDRFGILHETELPPVTAREAKKIRREMTRTSKWMEMLGEWETYKHSSKLIDRVYKGIPMNIRGPVWSVLLNIQEIKLKNPGRYQIMKERGKRSSEHIHHIDLDVRTTLRNHVFFRDRYGAKQRELFYILLAYSEYNPEVGYCRDLSHITALFLLYLPEEDAFWALVQLLASERHSLPGFHSPNGGTVQGLQDQQEHVVPKSQPKTMWHQDKEGLCGQCASLGCLLRNLIDGISLGLTLRLWDVYLVEGEQVLMPITSIALKVQQKRLMKTSRCGLWARLRNQFFDTWAMNDDTVLKHLRASTKKLTRKQGDLPPPAKREQGSLAPRPVPASRGGKTLCKGYRQAPPGPPAQFQRPICSASPPWASRFSTPCPGGAVREDTYPVGTQGVPSLALAQGGPQGSWRFLEWKSMPRLPTDLDIGGPWFPHYDFEWSCWVRAISQEDQLATCWQAEHCGEVHNKDMSWPEEMSFTANSSKIDRQKVPTEKGATGLSNLGNTCFMNSSIQCVSNTQPLTQYFISGRHLYELNRTNPIGMKGHMAKCYGDLVQELWSGTQKSVAPLKLRRTIAKYAPKFDGFQQQDSQELLAFLLDGLHEDLNRVHEKPYVELKDSDGRPDWEVAAEAWDNHLRRNRSIIVDLFHGQLRSQVKCKTCGHISVRFDPFNFLSLPLPMDSYMDLEITVIKLDGTTPVRYGLRLNMDEKYTGLKKQLRDLCGLNSEQILLAEVHDSNIKNFPQDNQKVQLSVSGFLCAFEIPVPSSPISASSPTQIDFSSSPSTNGMFTLTTNGDLPKPIFIPNGMPNTVVPCGTEKNFTNGMVNGHMPSLPDSPFTGYIIAVHRKMMRTELYFLSPQENRPSLFGMPLIVPCTVHTRKKDLYDAVWIQVSWLARPLPPQEASIHAQDRDNCMGYQYPFTLRVVQKDGNSCAWCPQYRFCRGCKIDCGEDRAFIGNAYIAVDWHPTALHLRYQTSQERVVDKHESVEQSRRAQAEPINLDSCLRAFTSEEELGESEMYYCSKCKTHCLATKKLDLWRLPPFLIIHLKRFQFVNDQWIKSQKIVRFLRESFDPSAFLVPRDPALCQHKPLTPQGDELSKPRILAREVKKVDAQSSAGKEDMLLSKSPSSLSANISSSPKGSPSSSRKSGTSCPSSKNSSPNSSPRTLGRSKGRLRLPQIGSKNKPSSSKKNLDASKENGAGQICELADALSRGHMRGGSQPELVTPQDHEVALANGFLYEHEACGNGCGDGYSNGQLGNHSEEDSTDDQREDTHIKPIYNLYAISCHSGILSGGHYITYAKNPNCKWYCYNDSSCEELHPDEIDTDSAYILFYEQQGIDYAQFLPKIDGKKMADTSSTDEDSESDYEKYSMLQ |
| 5261 | sp|O75351|VPS4B\_HUMAN | MSSTSPNLQKAIDLASKAAQEDKAGNYEEALQLYQHAVQYFLHVVKYEAQGDKAKQSIRAKCTEYLDRAEKLKEYLKNKEKKAQKPVKEGQPSPADEKGNDSDGEGESDDPEKKKLQNQLQGAIVIERPNVKWSDVAGLEGAKEALKEAVILPIKFPHLFTGKRTPWRGILLFGPPGTGKSYLAKAVATEANNSTFFSISSSDLVSKWLGESEKLVKNLFQLARENKPSIIFIDEIDSLCGSRSENESEAARRIKTEFLVQMQGVGVDNDGILVLGATNIPWVLDSAIRRRFEKRIYIPLPEPHARAAMFKLHLGTTQNSLTEADFRELGRKTDGYSGADISIIVRDALMQPVRKVQSATHFKKVRGPSRADPNHLVDDLLTPCSPGDPGAIEMTWMDVPGDKLLEPVVSMSDMLRSLSNTKPTVNEHDLLKLKKFTEDFGQEG |
| 5262 | sp|P85420|VM11\_BOTAT | TPEQQRYVDLFIVVDHGMFMKYNGNSDKIRRRIHQMVNIMKEAYSTMYIDILLTGVEIWSNKDLINVQPAAPQTLDSFGEWRKTDLLNRKSHDNAQLLTSTDFNGPTIGLAYVGSMCDPKRSTGVIQDHSEQDLMVAITMAHELGHNLGISHDTGSCSCGGYSCIMSPVLSHEPSKYFSDCSYIQCWDFIMKENPQCILNKR |
| 5263 | sp|Q91ZT1|VGFR3\_RAT | MQPGAALNRRLWLCLGLLQGLANGYSMTPPTLNITEDSYVIDTGDSLSISCRGQHPLEWTWRGAQEVLTTGGKDSEDTQVVQDCEGTEARPYCKVLSLAQTHANNTGSYYCYYKYIKARIEGTTAASTYVFVRDFEQPFINKPDTLLVNRKDSMWVPCLVSIPGLNITLRSQSSVLHPDGQEVLWDDRRGMRVPTLLLRDALYLQCETTWGDQDFLSNPFLVHITGNELYDIQLYPKKSLELLVGEKLVLNCTVWAEFDSGVTFDWDYPGKQAERAKWVPERRSQQTHTELSSILTIHNVSQHDLGPYVCEANNGIQQFRESTEVIVHEKPFISVEWLKGPVLEATAGDEMVKLPVKLAAYPPPEFQWYKDRKAVTGRHNPHALVLKEVTEASAGVYTLALWNSAAGLRQNISLELVVNVPPHIHEKEASSPSIYSRHSRQTLTCTTYGVPQPLSVQWHWRPWTPCKTFAQRSLRRRQPRDGMPQCRDWKEVTTQDAVNPIESLDTWTESVEGKNKTVSKLVIQDANVSAMYKCVVFNKVGQDERLIYFYVTTIPDGFSIESEPSEDPLEGQSVRLSCRADNYTYEHLRWYRLNLSTLHDAQGNPLLLDCKNVHLFATPLEANLEEAEPGARHATLSLNIPRVAPEDEGDYVCEVQDRRSQDKHCHKKYLSVQALEAPRLTQNLTDLLVNVRTSLEMRCPVAGAHVPSIVWYKDERLLEKESGIDLADSNQRLSIQRVREEDAGRYLCSVCNAKGCVNSSASVAVEGSEDKGSMEIVILIGTGVIAVFFWVLLLLIFCNMKRPAHADIKTGYLSIIMDPGEVPLEEQCEYLSYDVSQWEFPRERLHLGRVLGHGAFGKVVEASAFGINKGSSCDTVAVKMLKEGATASEHRALMSELKILIHIGNHLNVVNLLGACTKPNGPLMVIVEFCKYGNLSNFLRVKRETFDPYAEKSPEQRRRFRAMVEGAKADRRRLGSTDRALFTRFLMGKGSARRAPFVQEAEDLWLSPLTMEDLVCYSFQVARGMEFLASRKCIHRDLAARNILLSESDIVKICDFGLARDIYKDPDYVRKGSARLPLKWMAPESIFDKVYTTQSDVWSFGVLLWEIFSLGASPYPGVQINEEFCQRLKDGTRMRAPELATPAIRHIMQSCWSGDPKARPAFSDLVEILGDLLQGGGWQEEEEECMALHSSQSSEEDGFMQASTTALHITEADAESSPPSMHCHSLAARYYNCVSFPGRLVRGTKAPGSSRMKTFEELPMTPTTYKASVDNQTDSGMVLASEEFEQIESRHRQEGSFSRKDPGQHMDISRGHPDLQGRRRRPTQGAQGGKVFYNNEYGEVSQPCTEGDCCPSAGSTFFADSNY |
| 5264 | sp|Q4VSI4|UBP7\_RAT | MNHQQQQQQQQKAGEQQLSEPEDMEMEAGDTDDPPRITQNPVINGNVALSDGHSNAEEDMEDDTSWRSEATFQFTVERFSRLSESVLSPPCFVRNLPWKIMVMPRFYPDRPHQKSVGFFLQCNAESDSTSWSCHAQAVLKIINYRDDDKSFSRRISHLFFHKENDWGFSNFMAWSEVTDPEKGFIDDDKVTFEVFVQADAPHGVAWDSKKHTGYVGLKNQGATCYMNSLLQTLFFTNQLRKAVYMMPTEGDDSSKSVPLALQRVFYELQHSDKPVGTKKLTKSFGWETLDSFMQHDVQELCRVLLDNVENKMKGTCVEGTIPKLFRGKMVSYIQCKEVDYRSDRREDYYDIQLSIKGKKNIFESFVDYVAVEQLDGDNKYDAGEHGLQEAEKGVKFLTLPPVLHLQLMRFMYDPQTDQNIKINDRFEFPEQLPLDEFLQKTDPKDPANYILHAVLVHSGDNHGGHYVVYLNPKGDGKWCKFDDDVVSRCTKEEAIEHNYGGHDDDLSVRHCTNAYMLVYIRESKLSEVLQAVTDHDIPQQLVERLQEEKRIEAQKRKERQEAHLYMQVQIVAEDQFCGHQGNDMYDEEKVRYTVFKVLKNSSLAEFVQSLSQTMGFPQDQIRLWPMQARSNGTKRPAMLDNEADGSKTMIELSDNENPWTIFLETVDPELAASGATLPKFDKDHDVMLFLKMYDPKTRSLNYCGHIYTPISCKIRDLLPVMCDRAGFIQDTSLILYEEVKPNLTERIQDYDVSLDKALDELMDGDIIVFQKDDPENDNSELPTAKEYFRDLYHRVDVIFCDKTIPNDPGFVVTLSNRMNYFQVAKTVAQRLNTDPMLLQFFKSQGYRDGPGNPLRHNYEGTLRDLLQFFKPRQPKKLYYQQLKMKITDFENRRSFKCIWLNSQFREEEITLYPDKHGCVRDLLEECKKAVELGDEASGRLRLLEIVSYKIIGVHQEDELLECLSPATSRTFRIEEIPLDQVNIDKENEMLITVAHFHKEVFGTFGIPFLLRIHQGEHFREVMKRIQSLLDIQEKEFEKFKFAIVMMGRHQYINEDEYEVNLKDFEPQPGNMSHPRPWLGLDHFNKAPKRSRYTYLEKAIKIHN |
| 5265 | sp|Q9M0E5|VPS15\_ARATH | MGNKIARTTQVSATEYYLHDLPSSYNLVLKEVLGRGRFLKSIQCKHDEGLVVVKVYFKRGDSIDLREYERRLVKIKDVFLSLEHPHVWPFQFWQETDKAAYLVRQYFYSNLHDRLSTRPFLSLVEKKWLAFQLLLAVKQCHEKDICHGDIKCENVLLTSWNWLYLADFASFKPTYIPYDDPSDFSFFFDTRGQRLCYLAPERFYEHGGETQVAQDAPLKPSMDIFAVGCVIAELFLEGQPLFELAQLLAYRRGQHDPSQHLEKIPDPGIRKMILHMIQLEPEARLSAEDYLQNYVGVVFPNYFSPFLHTLYCCWNPLPSDMRVATCQGIFQEILKKMMENKSGDEIGVDSPVTSNPMNASTVQETFANHKLNSSKDLIRNTVNSKDEIFYSISDALKKNRHPFLKKITMDDLGTLMSLYDSRSDTYGTPFLPVEGNMRCEGMVLIASMLCSCIRNIKLPHLRREAILLLRSCSLYIDDDDRLQRVLPYVVALLSDPTAIVRCAAMETLCDILPLVRDFPPSDAKIFPEYIFPMLSMLPEDTEESVRICYASNIAKLALTAYGFLIHSFQLSDVGVLNELNSQQISTTPASETPSHLQKANGNAQLQQLRKTIAEVVQELVMGPKQTPNVRRALLQDIGELCFFFGQRQSNDFLLPILPAFLNDRDEQLRSVFFEKIVYVCFFVGQRSVEEYLLPYIDQALSDQTEAVIVNALECLSTLCKSSFLRKRALLQMIECVYPLLCYPSQWVRRAVVTFIAASSECLGAVDSYAFIAPVIRSYLSRLPASIASEEGLLSCLKPPVTREVVYRIFEKTRNPEFMAKQRKMWYSSSPQSKDWESVDLFDKDAGELNSVECRAEQKQSVEGKKQIKSASKQPEVQGKYAEKDAKLRIPRNPRPNASNTVELRDPVYPEKLQFSGFMAPYVSGANSFIEPENIPLYSFSMDKRAATNPPVASESSLQMNSLGMGSLSVPWMDSMSKSFNLASSVPVPKLISGSFHVGTNPKQFYRVVHEPESRENDQISSAISKFQDLGVSSSSKSASVTSEDASSPADLVGEPSLSRTSVPDSGWKPRGVLVAHLQEHRSAVNDIATSSDHSFFVSASDDSTVKVWDSRKLEKDISFRSRLTYHLEGSRGMCTTMLRNSTQVVVGASDGVIHMFSIDHISRGLGNVVEKYSGIVDIKKKDVKEGALVSLLNYTADSLSGPMVMYSTQNCGIHLWDTRSDLDAWTLKANPEEGYVSSLVTSPCGNWFVSGSSRGVLTLWDLRFRVPVNSWQYPIICPIEKMCLCFLPPSVSVSTTMKPLIYVAAGCNEVSLWNAEGGSCHQVLRVANYENETDVSEFQWKLPSNKVNPKPNHRQNMSSKYRIEELNEPPPRLPGIRSLLPLPGGDLLTGGTDLKIRRWDYSSPERSYCICGPSLKGVGNDDFYELKTNTGVQFVQETKRRPLATKLTAKAVLAAAATDTAGCHRDSVQSLASVKLNQRLLISSSRDGAIKVWK |
| 5266 | sp|P98166|VLDLR\_RAT | MGTSARWALWLLLALCWAPRDSGATASGKKAKCDSSQFQCTNGRCITLLWKCDGDEDCTDGSDEKNCVKKTCAESDFVCKNGQCVPNRWQCDGDPDCEDGSDESPEQCHMRTCRINEISCGARSTQCIPESWRCDGENDCDNGEDEENCGNITCSADEFTCSSGRCVSRNFVCNGQDDCDDGSDELDCAPPTCGAHEFQCRTSSCIPLSWVCDDDADCSDQSDESLEQCGRQPVIHTKCPTSEIQCGSGECIHKKWRCDGDPDCKDGSDEVNCPSRTCRPDQFECEDGSCIHGSRQCNGIRDCVDGSDEVNCKNVNQCLGPGKFKCRSGECIDITKVCDQEQDCRDWSDEPLKECHINECLVNNGGCSHICKDLVIGYECDCAAGFELIDRKTCGDIDECQNPGICSQICINLKGGYKCECSRGYQMDLATGVCKAVGKEPSLIFTNRRDIRKIGLERKEYIQLVEQLRNTVALDADIAAQKLFWADLSQKAIFSASIDDKVGRHFKMIDNVYNPAAIAVDWVYKTIYWTDAASKTISVATLDGTKRKFLFNSDLREPASIAVDPLSGFVYWSDWGEPAKIEKAGMNGFDRRPLVTEDIQWPNGITLDLVKSRLYWLDSKLHMLSSVDLNGQDRRIVLKSLEFLAHPLALTIFEDRVYWIDGENEAVYGANKFTGSELATLVNNLNDAQDIIIYHELVQPSGKNWCEEDMENGGCEYLCLPAPQINDHSPKYTCSCPNGYNLEENGRECQSTSTPVTYSETKDVNTTDILRTSGLVPGGINVTTAVSEVSVPPKGTSAAWAILPLLLLVMAAVGGYLMWRNWQHKNMKSMNFDNPVYLKTTEEDLSIDIGRHSASVGHTYPAISVVSTDDDLA |
| 5267 | sp|P39968|VAC8\_YEAST | MGSCCSCLKDSSDEASVSPIADNEREAVTLLLGYLEDKDQLDFYSGGPLKALTTLVYSDNLNLQRSAALAFAEITEKYVRQVSREVLEPILILLQSQDPQIQVAACAALGNLAVNNENKLLIVEMGGLEPLINQMMGDNVEVQCNAVGCITNLATRDDNKHKIATSGALIPLTKLAKSKHIRVQRNATGALLNMTHSEENRKELVNAGAVPVLVSLLSSTDPDVQYYCTTALSNIAVDEANRKKLAQTEPRLVSKLVSLMDSPSSRVKCQATLALRNLASDTSYQLEIVRAGGLPHLVKLIQSDSIPLVLASVACIRNISIHPLNEGLIVDAGFLKPLVRLLDYKDSEEIQCHAVSTLRNLAASSEKNRKEFFESGAVEKCKELALDSPVSVQSEISACFAILALADVSKLDLLEANILDALIPMTFSQNQEVSGNAAAALANLCSRVNNYTKIIEAWDRPNEGIRGFLIRFLKSDYATFEHIALWTILQLLESHNDKVEDLVKNDDDIINGVRKMADVTFERLQRSGIDVKNPGSNNNPSSNDNNSNNNDTGSEHQPVEDASLELYNITQQILQFLH |
| 5268 | sp|Q969X6|UTP4\_HUMAN | MGEFKVHRVRFFNYVPSGIRCVAYNNQSNRLAVSRTDGTVEIYNLSANYFQEKFFPGHESRATEALCWAEGQRLFSAGLNGEIMEYDLQALNIKYAMDAFGGPIWSMAASPSGSQLLVGCEDGSVKLFQITPDKIQFERNFDRQKSRILSLSWHPSGTHIAAGSIDYISVFDVKSGSAVHKMIVDRQYMGVSKRKCIVWGVAFLSDGTIISVDSAGKVQFWDSATGTLVKSHLIANADVQSIAVADQEDSFVVGTAEGTVFHFQLVPVTSNSSEKQWVRTKPFQHHTHDVRTVAHSPTALISGGTDTHLVFRPLMEKVEVKNYDAALRKITFPHRCLISCSKKRQLLLFQFAHHLELWRLGSTVATGKNGDTLPLSKNADHLLHLKTKGPENIICSCISPCGSWIAYSTVSRFFLYRLNYEHDNISLKRVSKMPAFLRSALQILFSEDSTKLFVASNQGALHIVQLSGGSFKHLHAFQPQSGTVEAMCLLAVSPDGNWLAASGTSAGVHVYNVKQLKLHCTVPAYNFPVTAMAIAPNTNNLVIAHSDQQVFEYSIPDKQYTDWSRTVQKQGFHHLWLQRDTPITHISFHPKRPMHILLHDAYMFCIIDKSLPLPNDKTLLYNPFPPTNESDVIRRRTAHAFKISKIYKPLLFMDLLDERTLVAVERPLDDIIAQLPPPIKKKKFGT |
| 5269 | sp|P06789|VE1\_HPV18 | MADPEGTDGEGTGCNGWFYVQAIVDKKTGDVISDDEDENATDTGSDMVDFIDTQGTFCEQAELETAQALFHAQEVHNDAQVLHVLKRKFAGGSTENSPLGERLEVDTELSPRLQEISLNSGQKKAKRRLFTISDSGYGCSEVEATQIQVTTNGEHGGNVCSGGSTEAIDNGGTEGNNSSVDGTSDNSNIENVNPQCTIAQLKDLLKVNNKQGAMLAVFKDTYGLSFTDLVRNFKSDKTTCTDWVTAIFGVNPTIAEGFKTLIQPFILYAHIQCLDCKWGVLILALLRYKCGKSRLTVAKGLSTLLHVPETCMLIQPPKLRSSVAALYWYRTGISNISEVMGDTPEWIQRLTIIQHGIDDSNFDLSEMVQWAFDNELTDESDMAFEYALLADSNSNAAAFLKSNCQAKYLKDCATMCKHYRRAQKRQMNMSQWIRFRCSKIDEGGDWRPIVQFLRYQQIEFITFLGALKSFLKGTPKKNCLVFCGPANTGKSYFGMSFIHFIQGAVISFVNSTSHFWLEPLTDTKVAMLDDATTTCWTYFDTYMRNALDGNPISIDRKHKPLIQLKCPPILLTTNIHPAKDNRWPYLESRITVFEFPNAFPFDKNGNPVYEINDKNWKCFFERTWSRLDLHEEEEDADTEGNPFGTFKLRAGQNHRPL |
| 5270 | sp|P70280|VAMP7\_MOUSE | MAILFAVVARGTTILAKHAWCGGNFLEVTEQILAKIPSENNKLTYSHGNYLFHYICQDRIVYLCITDDDFERSRAFSFLNEVKKRFQTTYGSRAQTALPYAMNSEFSSVLAAQLKHHSENKSLDKVMETQAQVDELKGIMVRNIDLVAQRGERLELLIDKTENLVDSSVTFKTTSRNLARAMCMKNIKLTIIIIIVSIVFIYIIVSLLCGGFTWPNCVKK |
| 5271 | sp|P0A698|UVRA\_ECOLI | MDKIEVRGARTHNLKNINLVIPRDKLIVVTGLSGSGKSSLAFDTLYAEGQRRYVESLSAYARQFLSLMEKPDVDHIEGLSPAISIEQKSTSHNPRSTVGTITEIHDYLRLLFARVGEPRCPDHDVPLAAQTVSQMVDNVLSQPEGKRLMLLAPIIKERKGEHTKTLENLASQGYIRARIDGEVCDLSDPPKLELQKKHTIEVVVDRFKVRDDLTQRLAESFETALELSGGTAVVADMDDPKAEELLFSANFACPICGYSMRELEPRLFSFNNPAGACPTCDGLGVQQYFDPDRVIQNPELSLAGGAIRGWDRRNFYYFQMLKSLADHYKFDVEAPWGSLSANVHKVVLYGSGKENIEFKYMNDRGDTSIRRHPFEGVLHNMERRYKETESSAVREELAKFISNRPCASCEGTRLRREARHVYVENTPLPAISDMSIGHAMEFFNNLKLAGQRAKIAEKILKEIGDRLKFLVNVGLNYLTLSRSAETLSGGEAQRIRLASQIGAGLVGVMYVLDEPSIGLHQRDNERLLGTLIHLRDLGNTVIVVEHDEDAIRAADHVIDIGPGAGVHGGEVVAEGPLEAIMAVPESLTGQYMSGKRKIEVPKKRVPANPEKVLKLTGARGNNLKDVTLTLPVGLFTCITGVSGSGKSTLINDTLFPIAQRQLNGATIAEPAPYRDIQGLEHFDKVIDIDQSPIGRTPRSNPATYTGVFTPVRELFAGVPESRARGYTPGRFSFNVRGGRCEACQGDGVIKVEMHFLPDIYVPCDQCKGKRYNRETLEIKYKGKTIHEVLDMTIEEAREFFDAVPALARKLQTLMDVGLTYIRLGQSATTLSGGEAQRVKLARELSKRGTGQTLYILDEPTTGLHFADIQQLLDVLHKLRDQGNTIVVIEHNLDVIKTADWIVDLGPEGGSGGGEILVSGTPETVAECEASHTARFLKPML |
| 5272 | sp|Q9Z270|VAPA\_RAT | MASASGAMAKHEQILVLDPPSDLKFKGPFTDVVTTNLKLQNPSDRKVCFKVKTTAPRRYCVRPNSGVIDPGSIVTVSVMLQPFDYDPNEKSKHKFMVQTIFAPPNISDMEAVWKEAKPDELMDSKLRCVFEMPNENDKLNDMEPSKAVPLNASKQDGPLPKPHSVSLNDTETRKLMEECKRLQGEMMKLSEENRHLRDEGLRLRKVAHSDKPGSTSAVSFRDNVTSPLPSLLVVIAAIFIGFFLGKFIL |
| 5273 | sp|Q9UIA9|XPO7\_HUMAN | MADHVQSLAQLENLCKQLYETTDTTTRLQAEKALVEFTNSPDCLSKCQLLLERGSSSYSQLLAATCLTKLVSRTNNPLPLEQRIDIRNYVLNYLATRPKLATFVTQALIQLYARITKLGWFDCQKDDYVFRNAITDVTRFLQDSVEYCIIGVTILSQLTNEINQADTTHPLTKHRKIASSFRDSSLFDIFTLSCNLLKQASGKNLNLNDESQHGLLMQLLKLTHNCLNFDFIGTSTDESSDDLCTVQIPTSWRSAFLDSSTLQLFFDLYHSIPPSFSPLVLSCLVQIASVRRSLFNNAERAKFLSHLVDGVKRILENPQSLSDPNNYHEFCRLLARLKSNYQLGELVKVENYPEVIRLIANFTVTSLQHWEFAPNSVHYLLSLWQRLAASVPYVKATEPHMLETYTPEVTKAYITSRLESVHIILRDGLEDPLEDTGLVQQQLDQLSTIGRCEYEKTCALLVQLFDQSAQSYQELLQSASASPMDIAVQEGRLTWLVYIIGAVIGGRVSFASTDEQDAMDGELVCRVLQLMNLTDSRLAQAGNEKLELAMLSFFEQFRKIYIGDQVQKSSKLYRRLSEVLGLNDETMVLSVFIGKIITNLKYWGRCEPITSKTLQLLNDLSIGYSSVRKLVKLSAVQFMLNNHTSEHFSFLGINNQSNLTDMRCRTTFYTALGRLLMVDLGEDEDQYEQFMLPLTAAFEAVAQMFSTNSFNEQEAKRTLVGLVRDLRGIAFAFNAKTSFMMLFEWIYPSYMPILQRAIELWYHDPACTTPVLKLMAELVHNRSQRLQFDVSSPNGILLFRETSKMITMYGNRILTLGEVPKDQVYALKLKGISICFSMLKAALSGSYVNFGVFRLYGDDALDNALQTFIKLLLSIPHSDLLDYPKLSQSYYSLLEVLTQDHMNFIASLEPHVIMYILSSISEGLTALDTMVCTGCCSCLDHIVTYLFKQLSRSTKKRTTPLNQESDRFLHIMQQHPEMIQQMLSTVLNIIIFEDCRNQWSMSRPLLGLILLNEKYFSDLRNSIVNSQPPEKQQAMHLCFENLMEGIERNLLTKNRDRFTQNLSAFRREVNDSMKNSTYGVNSNDMMS |
| 5274 | sp|P04004|VTNC\_HUMAN | MAPLRPLLILALLAWVALADQESCKGRCTEGFNVDKKCQCDELCSYYQSCCTDYTAECKPQVTRGDVFTMPEDEYTVYDDGEEKNNATVHEQVGGPSLTSDLQAQSKGNPEQTPVLKPEEEAPAPEVGASKPEGIDSRPETLHPGRPQPPAEEELCSGKPFDAFTDLKNGSLFAFRGQYCYELDEKAVRPGYPKLIRDVWGIEGPIDAAFTRINCQGKTYLFKGSQYWRFEDGVLDPDYPRNISDGFDGIPDNVDAALALPAHSYSGRERVYFFKGKQYWEYQFQHQPSQEECEGSSLSAVFEHFAMMQRDSWEDIFELLFWGRTSAGTRQPQFISRDWHGVPGQVDAAMAGRIYISGMAPRPSLAKKQRFRHRNRKGYRSQRGHSRGRNQNSRRPSRATWLSLFSSEESNLGANNYDDYRMDWLVPATCEPIQSVFFFSGDKYYRVNLRTRRVDTVDPPYPRSIAQYWLGCPAPGHL |
| 5275 | sp|P48974|V1BR\_RAT | MNSEPSWTATPSPGGTLPVPNATTPWLGRDEELAKVEIGILATVLVLATGGNLAVLLTLGRHGHKRSRMHLFVLHLALTDLGVALFQVLPQLLWDITYRFQGSDLLCRAVKYLQVLSMFASTYMLLAMTLDRYLAVCHPLRSLRQPSQSTYPLIAAPWLLAAILSLPQVFIFSLREVIQGSGVLDCWADFYFSWGPRAYITWTTMAIFVLPVAVLSACYGLICHEIYKNLKVKTQAGREERRGWRTWDKSSSSAVATAATRGLPSRVSSISTISRAKIRTVKMTFVIVLAYIACWAPFFSVQMWSVWDENAPNEDSTNVAFTISMLLGNLSSCCNPWIYMGFNSRLLPRSLSHHACCTGSKPQVHRQLSTSSLTSRRTTLLTHACGSPTLRLSLNLSLRAKPRPAGSLKDLEQVDGEATMETSIF |
| 5276 | sp|Q8IZQ1|WDFY3\_HUMAN | MNMVKRIMGRPRQEECSPQDNALGLMHLRRLFTELCHPPRHMTQKEQEEKLYMMLPVFNRVFGNAPPNTMTEKFSDLLQFTTQVSRLMVTEIRRRASNKSTEAASRAIVQFLEINQSEEASRGWMLLTTINLLASSGQKTVDCMTTMSVPSTLVKCLYLFFDLPHVPEAVGGAQNELPLAERRGLLQKVFVQILVKLCSFVSPAEELAQKDDLQLLFSAITSWCPPYNLPWRKSAGEVLMTISRHGLSVNVVKYIHEKECLSTCVQNMQQSDDLSPLEIVEMFAGLSCFLKDSSDVSQTLLDDFRIWQGYNFLCDLLLRLEQAKEAESKDALKDLVNLITSLTTYGVSELKPAGITTGAPFLLPGFAVPQPAGKGHSVRNVQAFAVLQNAFLKAKTSFLAQIILDAITNIYMADNANYFILESQHTLSQFAEKISKLPEVQNKYFEMLEFVVFSLNYIPCKELISVSILLKSSSSYHCSIIAMKTLLKFTRHDYIFKDVFREVGLLEVMVNLLHKYAALLKDPTQALNEQGDSRNNSSVEDQKHLALLVMETLTVLLQGSNTNAGIFREFGGARCAHNIVKYPQCRQHALMTIQQLVLSPNGDDDMGTLLGLMHSAPPTELQLKTDILRALLSVLRESHRSRTVFRKVGGFVYITSLLVAMERSLSCPPKNGWEKVNQNQVFELLHTVFCTLTAAMRYEPANSHFFKTEIQYEKLADAVRFLGCFSDLRKISAMNVFPSNTQPFQRLLEEDVISIESVSPTLRHCSKLFIYLYKVATDSFDSRAEQIPPCLTSESSLPSPWGTPALSRKRHAYHSVSTPPVYPPKNVADLKLHVTTSSLQSSDAVIIHPGAMLAMLDLLASVGSVTQPEHALDLQLAVANILQSLVHTERNQQVMCEAGLHARLLQRCSAALADEDHSLHPPLQRMFERLASQALEPMVLREFLRLASPLNCGAWDKKLLKQYRVHKPSSLSYEPEMRSSMITSLEGLGTDNVFSLHEDNHYRISKSLVKSAEGSTVPLTRVKCLVSMTTPHDIRLHGSSVTPAFVEFDTSLEGFGCLFLPSLAPHNAPTNNTVTTGLIDGAVVSGIGSGERFFPPPSGLSYSSWFCIEHFSSPPNNHPVRLLTVVRRANSSEQHYVCLAIVLSAKDRSLIVSTKEELLQNYVDDFSEESSFYEILPCCARFRCGELIIEGQWHHLVLVMSKGMLKNSTAALYIDGQLVNTVKLHYVHSTPGGSGSANPPVVSTVYAYIGTPPAQRQIASLVWRLGPTHFLEEVLPSSNVTTIYELGPNYVGSFQAVCMPCKDAKSEGVVPSPVSLVPEEKVSFGLYALSVSSLTVARIRKVYNKLDSKAIAKQLGISSHENATPVKLIHNSAGHLNGSARTIGAALIGYLGVRTFVPKPVATTLQYVGGAAAILGLVAMASDVEGLYAAVKALVCVVKSNPLASKEMERIKGYQLLAMLLKKKRSLLNSHILHLTFSLVGTVDSGHETSIIPNSTAFQDLLCDFEVWLHAPYELHLSLFEHFIELLTESSEASKNAKLMREFQLIPKLLLTLRDMSLSQPTIAAISNVLSFLLQGFPSSNDLLRFGQFISSTLPTFAVCEKFVVMEINNEEKLDTGTEEEFGGLVSANLILLRNRLLDILLKLIYTSKEKTSINLQACEELVKTLGFDWIMMFMEEHLHSTTVTAAMRILVVLLSNQSILIKFKEGLSGGGWLEQTDSVLTNKIGTVLGFNVGRSAGGRSTVREINRDACHFPGFPVLQSFLPKHTNVPALYFLLMALFLQQPVSELPENLQVSVPVISCRSKQGCQFDLDSIWTFIFGVPASSGTVVSSIHNVCTEAVFLLLGMLRSMLTSPWQSEEEGSWLREYPVTLMQFFRYLYHNVPDLASMWMSPDFLCALAATVFPFNIRPYSEMVTDLDDEVGSPAEEFKAFAADTGMNRSQSEYCNVGTKTYLTNHPAKKFVFDFMRVLIIDNLCLTPASKQTPLIDLLLEASPERSTRTQQKEFQTYILDSVMDHLLAADVLLGEDASLPITSGGSYQVLVNNVFYFTQRVVDKLWQGMFNKESKLLIDFIIQLIAQSKRRSQGLSLDAVYHCLNRTILYQFSRAHKTVPQQVALLDSLRVLTVNRNLILGPGNHDQEFISCLAHCLINLHVGSNVDGFGLEAEARMTTWHIMIPSDIEPDGSYSQDISEGRQLLIKAVNRVWTELIHSKKQVLEELFKVTLPVNERGHVDIATARPLIEEAALKCWQNHLAHEKKCISRGEALAPTTQSKLSRVSSGFGLSKLTGSRRNRKESGLNKHSLSTQEISQWMFTHIAVVRDLVDTQYKEYQERQQNALKYVTEEWCQIECELLRERGLWGPPIGSHLDKWMLEMTEGPCRMRKKMVRNDMFYNHYPYVPETEQETNVASEIPSKQPETPDDIPQKKPARYRRAVSYDSKEYYMRLASGNPAIVQDAIVESSEGEAAQQEPEHGEDTIAKVKGLVKPPLKRSRSAPDGGDEENQEQLQDQIAEGSSIEEEEKTDNATLLRLLEEGEKIQHMYRCARVQGLDTSEGLLLFGKEHFYVIDGFTMTATREIRDIETLPPNMHEPIIPRGARQGPSQLKRTCSIFAYEDIKEVHKRRYLLQPIAVEVFSGDGRNYLLAFQKGIRNKVYQRFLAVVPSLTDSSESVSGQRPNTSVEQGSGLLSTLVGEKSVTQRWERGEISNFQYLMHLNTLAGRSYNDLMQYPVFPWILADYDSEEVDLTNPKTFRNLAKPMGAQTDERLAQYKKRYKDWEDPNGETPAYHYGTHYSSAMIVASYLVRMEPFTQIFLRLQGGHFDLADRMFHSVREAWYSASKHNMADVKELIPEFFYLPEFLFNSNNFDLGCKQNGTKLGDVILPPWAKGDPREFIRVHREALECDYVSAHLHEWIDLIFGYKQQGPAAVEAVNVFHHLFYEGQVDIYNINDPLKETATIGFINNFGQIPKQLFKKPHPPKRVRSRLNGDNAGISVLPGSTSDKIFFHHLDNLRPSLTPVKELKEPVGQIVCTDKGILAVEQNKVLIPPTWNKTFAWGYADLSCRLGTYESDKAMTVYECLSEWGQILCAICPNPKLVITGGTSTVVCVWEMGTSKEKAKTVTLKQALLGHTDTVTCATASLAYHIIVSGSRDRTCIIWDLNKLSFLTQLRGHRAPVSALCINELTGDIVSCAGTYIHVWSINGNPIVSVNTFTGRSQQIICCCMSEMNEWDTQNVIVTGHSDGVVRFWRMEFLQVPETPAPEPAEVLEMQEDCPEAQIGQEAQDEDSSDSEADEQSISQDPKDTPSQPSSTSHRPRAASCRATAAWCTDSGSDDSRRWSDQLSLDEKDGFIFVNYSEGQTRAHLQGPLSHPHPNPIEVRNYSRLKPGYRWERQLVFRSKLTMHTAFDRKDNAHPAEVTALGISKDHSRILVGDSRGRVFSWSVSDQPGRSAADHWVKDEGGDSCSGCSVRFSLTERRHHCRNCGQLFCQKCSRFQSEIKRLKISSPVRVCQNCYYNLQHERGSEDGPRNC |
| 5277 | sp|Q9UBD3|XCL2\_HUMAN | MRLLILALLGICSLTAYIVEGVGSEVSHRRTCVSLTTQRLPVSRIKTYTITEGSLRAVIFITKRGLKVCADPQATWVRDVVRSMDRKSNTRNNMIQTKPTGTQQSTNTAVTLTG |
| 5278 | sp|Q8IZH2|XRN1\_HUMAN | MGVPKFYRWISERYPCLSEVVKEHQIPEFDNLYLDMNGIIHQCSHPNDDDVHFRISDDKIFTDIFHYLEVLFRIIKPRKVFFMAVDGVAPRAKMNQQRGRRFRSAKEAEDKIKKAIEKGETLPTEARFDSNCITPGTEFMARLHEHLKYFVNMKISTDKSWQGVTIYFSGHETPGEGEHKIMEFIRSEKAKPDHDPNTRHCLYGLDADLIMLGLTSHEAHFSLLREEVRFGGKKTQRVCAPEETTFHLLHLSLMREYIDYEFSVLKEKITFKYDIERIIDDWILMGFLVGNDFIPHLPHLHINHDALPLLYGTYVTILPELGGYINESGHLNLPRFEKYLVKLSDFDREHFSEVFVDLKWFESKVGNKYLNEAAGVAAEEARNYKEKKKLKGQENSLCWTALDKNEGEMITSKDNLEDETEDDDLFETEFRQYKRTYYMTKMGVDVVSDDFLADQAACYVQAIQWILHYYYHGVQSWSWYYPYHYAPFLSDIHNISTLKIHFELGKPFKPFEQLLAVLPAASKNLLPACYQHLMTNEDSPIIEYYPPDFKTDLNGKQQEWEAVVLIPFIDEKRLLEAMETCNHSLKKEERKRNQHSECLMCWYDRDTEFIYPSPWPEKFPAIERCCTRYKIISLDAWRVDINKNKITRIDQKALYFCGFPTLKHIRHKFFLKKSGVQVFQQSSRGENMMLEILVDAESDELTVENVASSVLGKSVFVNWPHLEEARVVAVSDGETKFYLEEPPGTQKLYSGRTAPPSKVVHLGDKEQSNWAKEVQGISEHYLRRKGIIINETSAVVYAQLLTGRKYQINQNGEVRLEKQWSKQVVPFVYQTIVKDIRAFDSRFSNIKTLDDLFPLRSMVFMLGTPYYGCTGEVQDSGDVITEGRIRVIFSIPCEPNLDALIQNQHKYSIKYNPGYVLASRLGVSGYLVSRFTGSIFIGRGSRRNPHGDHKANVGLNLKFNKKNEEVPGYTKKVGSEWMYSSAAEQLLAEYLERAPELFSYIAKNSQEDVFYEDDIWPGENENGAEKVQEIITWLKGHPVSTLSRSSCDLQILDAAIVEKIEEEVEKCKQRKNNKKVRVTVKPHLLYRPLEQQHGVIPDRDAEFCLFDRVVNVRENFSVPVGLRGTIIGIKGANREADVLFEVLFDEEFPGGLTIRCSPGRGYRLPTSALVNLSHGSRSETGNQKLTAIVKPQPAVHQHSSSSSVSSGHLGALNHSPQSLFVPTQVPTKDDDEFCNIWQSLQGSGKMQYFQPTIQEKGAVLPQEISQVNQHHKSGFNDNSVKYQQRKHDPHRKFKEECKSPKAECWSQKMSNKQPNSGIENFLASLNISKENEVQSSHHGEPPSEEHLSPQSFAMGTRMLKEILKIDGSNTVDHKNEIKQIANEIPVSSNRRDEYGLPSQPKQNKKLASYMNKPHSANEYHNVQSMDNMCWPAPSQIPPVSTPVTELSRICSLVGMPQPDFSFLRMPQTMTVCQVKLSNGLLVHGPQCHSENEAKEKAALFALQQLGSLGMNFPLPSQVFANYPSAVPPGTIPPAFPPPTGWDHYGSNYALGAANIMPSSSHLFGSMPWGPSVPVPGKPFHHTLYSGTMPMAGGIPGGVHNQFIPLQVTKKRVANKKNFENKEAQSSQATPVQTSQPDSSNIVKVSPRESSSASLKSSPIAQPASSFQVETASQGHSISHHKSTPISSSRRKSRKLAVNFGVSKPSE |
| 5279 | sp|Q9P2L0|WDR35\_HUMAN | MFFYLSKKISIPNNVKLQCVSWNKEQGFIACGGEDGLLKVLKLETQTDDAKLRGLAAPSNLSMNQTLEGHSGSVQVVTWNEQYQKLTTSDENGLIIVWMLYKGSWIEEMINNRNKSVVRSMSWNADGQKICIVYEDGAVIVGSVDGNRIWGKDLKGIQLSHVTWSADSKVLLFGMANGEIHIYDNQGNFMIKMKLSCLVNVTGAISIAGIHWYHGTEGYVEPDCPCLAVCFDNGRCQIMRHENDQNPVLIDTGMYVVGIQWNHMGSVLAVAGFQKAAMQDKDVNIVQFYTPFGEHLGTLKVPGKEISALSWEGGGLKIALAVDSFIYFANIRPNYKWGYCSNTVVYAYTRPDRPEYCVVFWDTKNNEKYVKYVKGLISITTCGDFCILATKADENHPQEENEMETFGATFVLVLCNSIGTPLDPKYIDIVPLFVAMTKTHVIAASKEAFYTWQYRVAKKLTALEINQITRSRKEGRERIYHVDDTPSGSMDGVLDYSKTIQGTRDPICAITASDKILIVGRESGTIQRYSLPNVGLIQKYSLNCRAYQLSLNCNSSRLAIIDISGVLTFFDLDARVTDSTGQQVVGELLKLERRDVWDMKWAKDNPDLFAMMEKTRMYVFRNLDPEEPIQTSGYICNFEDLEIKSVLLDEILKDPEHPNKDYLINFEIRSLRDSRALIEKVGIKDASQFIEDNPHPRLWRLLAEAALQKLDLYTAEQAFVRCKDYQGIKFVKRLGKLLSESMKQAEVVGYFGRFEEAERTYLEMDRRDLAIGLRLKLGDWFRVLQLLKTGSGDADDSLLEQANNAIGDYFADRQKWLNAVQYYVQGRNQERLAECYYMLEDYEGLENLAISLPENHKLLPEIAQMFVRVGMCEQAVTAFLKCSQPKAAVDTCVHLNQWNKAVELAKNHSMKEIGSLLARYASHLLEKNKTLDAIELYRKANYFFDAAKLMFKIADEEAKKGSKPLRVKKLYVLSALLIEQYHEQMKNAQRGKVKGKSSEATSALAGLLEEEVLSTTDRFTDNAWRGAEAYHFFILAQRQLYEGCVDTALKTALHLKDYEDIIPPVEIYSLLALCACASRAFGTCSKAFIKLKSLETLSSEQKQQYEDLALEIFTKHTSKDNRKPELDSLMEGGEGKLPTCVATGSPITEYQFWMCSVCKHGVLAQEISHYSFCPLCHSPVG |
| 5280 | sp|Q8BND3|WDR35\_MOUSE | MFFYLSKKIAVPNNVKLKCISWNKDQGFIACGGEDGLLKVLRLETQTDDSKLRGLAAPSNLSMNQNLEGHSGAVQVVTWNEQYQKLTTSDQNGLIIVWMLYKGSWYEEMINNRNKSVVRSMSWNADGQKICIVYEDGAVIVGSVDGNRIWGKDLKGIQLCHVTWSADSKILLFGMANGEIHIYDNQGNFIMKMKLNCLVNVTGAISIAGIHWYHGTEGYVEPDCPCLAICFDNGRCQIMRHENDQNPVLIDTGMYVVGIQWNHIGSVLAVAGSQKVVTQDKDINIVQFYTPFGEHLGTLKVPGKQMCSLSWEGGGLKIALAVDSFIYFANIRPDYKWGYCSNTVVYAYTRPDRPEYCVVFWDTKNSEKYVKYVKSLISITTCGDFCILATKADENHPQEENEMETFGATFVLVLCNSIGTPLDPKYIDLVPLFVAMTKTHVIAASKEAFYTWQYRVAKKLTALEINQITRSRKEGRERIYHVDDVPSGSVDGVFDYSKAIQGTRDPICAITASDKTLIVGRESGVIQRYSFPNVALIQKYSLDCRACQLSLNCNSSRLAIIDIAGVLTFFDLDTRVTDSTGQQVVGELLKLERKDVWDMKWAKDNPDLFAMMEKTRMYVFRNLDPEEPIQTSGYICNFEDLEIKSVLLDEILKDPEHPSKDYIMNFEIRSLRDSRALIEKVGIEDASQFIEDNPHPRLWRLLAEAALQKLDLYTAQQAFVRCKDYQGIKFVKLLGNLQSESMKQAEVIAYFGRFEDAERMYQDMDRRDLAIGLRMKLGDWFRVLQLLKTGSGDADDSLLEQANNAIGEYFADRQKWQNAVQYYVKGRNQERLAECYYMLEDYEGLETLANSLPENHKLLPEIAQMFVRVGMCEQAVSAFLKCNQPKAAVDTCVHLNQWNKAVELAKSHSMKEIGSLLARYASHLLEKNKTLDAIELYRKASYFFDAAKLMYKIADEEAKKRTKPLRVKKLYVLSALLIEQYHEQMKNAQRGKVKGKNSEATSALAGLLEEEVLSTTSRFTDNAWRGAEAYHFFILAQRQLYEGYVDTALKTALHLRDYEDIIPSVEIYSLLALCACASRAFGTCSKAFIKLESLETLSAEQKQQYEDLALEIFTKHTPKDNRKSELNSLLEGGEGKLPTCIATGSPIIEYQFWVCKVCKHYVLAQEISNYNFCPLCHSSVE |
| 5281 | sp|P61964|WDR5\_HUMAN | MATEEKKPETEAARAQPTPSSSATQSKPTPVKPNYALKFTLAGHTKAVSSVKFSPNGEWLASSSADKLIKIWGAYDGKFEKTISGHKLGISDVAWSSDSNLLVSASDDKTLKIWDVSSGKCLKTLKGHSNYVFCCNFNPQSNLIVSGSFDESVRIWDVKTGKCLKTLPAHSDPVSAVHFNRDGSLIVSSSYDGLCRIWDTASGQCLKTLIDDDNPPVSFVKFSPNGKYILAATLDNTLKLWDYSKGKCLKTYTGHKNEKYCIFANFSVTGGKWIVSGSEDNLVYIWNLQTKEIVQKLQGHTDVVISTACHPTENIIASAALENDKTIKLWKSDC |
| 5282 | sp|P33301|XRS2\_YEAST | MWVVRYQNTLEDGSISFISCCLQAFKTYSIGRSSKNPLIIKNDKSISRQHITFKWEINNSSDLKHSSLCLVNKGKLTSLNKKFMKVGETFTINASDVLKSTIIELGTTPIRIEFEWINEVWNIPPHLTQFRTMLSEYGISTEISINDIPANLMISDYPKSEDNSIRELYALVSTIPMKKSRFLMELCNTLLPTSKTNLKFDEMWNDMISNPEYNVFDFDPNILLSKFMRLNNIRVLTTIKSEPRLSSLLRTFNINLFAFDNIDSLYKYVDSLEASTEYLILTTTDKKENGKILCTIKTMLTSIIDGTLSAVINMKGASSRTLDNGKFDQISEGMSTILKTSRAPEVEASPVVSKKRKLNRRRVLPLDSLDFFAGGLSTKTLSENRSLTDAKRLNCGAESKTVISSPNIAEADEKHAPFLQNALKPTEDIGKKSGHSSPGAIIVSSPNLGTVNTSEDSLDKSLQSHKLPQPSLPEVAGIGSQTISSNSADYETAAVNSMDDAEVTKNFRVNHHQNIEQPSKNIRKLSNYSREISSPLQENCKSPVKELSIKEKSGTPHAFVEAIQETKNREVKRVKSTIVELKDEELSEEAINQLKNLAIVEPSNNLLRKSFDSEGNKTSRTTEKWENSLMEPEWHKRKNFKTFVKVRPKSKAHKEEGKNNTQSSDFIRNAAFLITRNYVPLKKYSKKDTTTKWGTEENEDMFALTEMERFGSNTFMSDNINSNTIQKRSQALNRFTNEDSSNEGEEDSFSFSRCSGTAASVQPLKNKIFITDEDDLGDIDDKSDRLNHRENNRNLFVVKEMNLRPNLSEECSKQSRHSRSATSRSRGSFGASNNGDGDDDDDDGPKFTFKRRKG |
| 5283 | sp|P17553|WNT3\_MOUSE | MEPHLLGLLLGLLLSGTRVLAGYPIWWSLALGQQYTSLASQPLLCGSIPGLVPKQLRFCRNYIEIMPSVAEGVKLGIQECQHQFRGRRWNCTTIDDSLAIFGPVLDKATRESAFVHAIASAGVAFAVTRSCAEGTSTICGCDSHHKGPPGEGWKWGGCSEDADFGVLVSREFADARENRPDARSAMNKHNNEAGRTTILDHMHLKCKCHGLSGSCEVKTCWWAQPDFRAIGDFLKDKYDSASEMVVEKHRESRGWVETLRAKYALFKPPTERDLVYYENSPNFCEPNPETGSFGTRDRTCNVTSHGIDGCDLLCCGRGHNTRTEKRKEKCHCVFHWCCYVSCQECIRIYDVHTCK |
| 5284 | sp|P51028|WNT8A\_DANRE | MNPCQIFASLVMSICCHILSSTAWSVNNFLMTGPKAYLAYTSSVQAGAQSGIEECKHQFAWDRWNCPESALQLSTHKGLRSATRETAFVHAISAAGVMYTLTKNCSMGDFENCGCDDSKIGKMGGRGWVWGGCSDNVNFGDRIAKLFVDALENGHDSRAAVNLHNNEAGRLAVKATLKRTCKCHGLSGSCSIQTCWMQLADFRDIGSYLKIKHDQARKLEMDKIRMRAGNSADNRGAIADTFSAVARTELIFMEDSPDYCVKNLSMGLHGTEGRECLQSGKNLSQWERRSCRRLCHECGLKVEERRIETVSSCNCKFHWCCTVKCETCTQTVTRYFCAKRHRNRRPHNHSRKRQHTRRG |
| 5285 | sp|Q768S4|RPH3L\_MOUSE | MADTIFSSGNDQWVCPNDRQLALRAKLQTGWSVHTYQTEKQRRSQCLSPGELEIILQVIQRAERLDILEQQRIGRLVERLETMQRNVMGNGLSQCLLCGEVLGFLGSSSVFCKDCRKKVCTKCGIEASPGQKRPLWLCKICSEQREVWKRSGAWFYKGLPKYILPLKTPGRADDPHFRPLPVEPTETQPPSAETSRVYTWARGRVVSSDSDSDSDLSSSSLEDRPLPSGVKGTKGDKPRGDSGASMESPRLGPARPPSHLSGSQSSLGSEAGTGATEPQGGTPAQPEPRVPGKRHTWATPRY |
| 5286 | sp|Q17551|RPM1\_CAEEL | MSFFLREIDGERVCSTSTETSIPEDRKSARRLRKLLYKCAENTCKPDILRVPAHCGKLDKEEEKSKTPLDQQQQINFHDILNSKFVVGPPSPFALVAIAKSILARFGNPEEVSEKEDGSEEEAGTSGADEEGKQYKNTDQLVGASLTCIFEVLEQLSRRDAELCVQALESLLSLIQSMPIDCLQSENRLSMSAMMHVLKTLREDACPSVSSKATSCLVALSVACGEPEHLGSTIRSLICMKKNIRMSADSTYDMIQMPENLRKLLLKVRRKALGGDNTANSPPNWAMVDVHEHSVASSFSLPSLPDSSPSSDTPDDDNRIHSTMACDGTFLYILNYVGLYKLGTGLNETISGKLYAANQSLQSSKNVQMYLCNGSLYLRRNYSSCISVIDTDSLLDIGEVILPPSCVQHALFTDGTYFYSATLIANSTLSTIQLNDSFSPSNEPSSRRSHRLTDVKFTIQGDLQVPHQLPEFLPANLHPQTVDLHFTREMAFIQARSGKVYYAGNGTRFGLFETGNNWMELCLPEPIVQISVGIDTIMFRSGAGHGWIASVDDKKRNGRLRRLVPSNRRKIVHVCASGHVYGYVSENGKIFMGGLHTMRVNVSSQMLNGLDNVMISSLALGKSHGVAVTRNGHLFTWGLNNMNQCGRVESTSTTSSPRHSGRQEYQICPIGEHTWLTDTPSVCAQCGLCSARGVACGRVPRPKGTMCHCGVGESTCLRCGLCRPCGEVTEPAQPGRAQHVQFSSTAAPQRSTLHPSRVILSQGPHDVKVSSVSCGNFHTVLLASDRRVFTFGSNCHGQLGVGDTLSKNTPQQVILPSDTVIVQVAAGSNHTILRANDGSVFTFGAFGKGQLARPAGEKAGWNAIPEKVSGFGPGFNAFAGWIGADGDSSIIHSHTALLSSDNILKAQIVANKTNIFIFPREVGKDYIVIRRKLNVFEHHASDYKCWYTSWATDPKYDMLWYYNSAEMEIKGYDIFKKSEKSVGDAFDSLTFLAGAEFAVQVYDSPAYATSMSLGMQLLSATFSANVINLSEFWKEKHGEREQDHEKTIMDGYSVANRFDGTGGGWGYSANSVEAIQFKVSKEIRLVGVGLYGGRGEYISKLKLYRQIGTEADELYVEQITETDETVYDCGAHETATLLFSQPIVIQPNHWHVVSAKISGPSSDCGANGKRHVECDGVTFQFRKSAVSNNGTDVDVGQIPELYYQIVGGSESRDESDSNKQLSISRDMSNLFSPAALKNVTAEGIGNLLILLEWALQRVQIDEDTNNQVEGSAENQWSQERAGFVAILSMKLISRFVRTVYKEKGCHDEPGIDFANKLVNLHSMLLEFFFSTDMTGYENRPLIKKEEKVVEEGYTLMKCVSEAVKLFISLSHCFMGSRSLMNAHLIAVMNKGNHEALILTSAIIGSLAKIERFAHQLLCSTTTTERFPMLSSLLLKHFNCEKETLASLTSFPNILRFLYDQTFMRNAYENTSSLAEAILVKVSRDLAIPTDDTLMGPVVHQTSSRFRRRSAQPTWDMSDGCADAIAFRVDSEGIKLHGFGIYLPTEPDRRNFVGEIMMLSPDSSEKWTCLLRVTAEMSSEEKEVGIVRFPEYVLLSPGVTYAVKVNMMKNTKTFCGEGGVTQVHLLNGARLFFSGCSMSQNGTTVQRGQLPYLIYSILDQSNSLQIKQETIYDTFTLLLRLMANKIGAAITEGGALPACCQHLMSHINPHVMVYMERFPDKALEMMSTMEQLIPMVSNLNGVERVFHSYDSDDSGCDTPYSGIVTTVVESQHPYKPNTSSSMVLLFEEADYICVRFSPDCQTAQFDDQLTIYLKIDEHSYMPIERCYGSEWPSYPMILPGNCLMFVLDASSAVEGATSEQMFGYHVTVTGYLVGYNDSTMRLEQDLVWLSANACRIMTQLPINPSNIEHLSTAEDDTRHLFEKHGSLLKKGLSLSHSPTLSELCTKGQPPPAQSADLQFLREFLSGHTSTSAGFLAKWLPTGSVVDASKCQLSLSHDDLIVGKAVTLKLLCKDQYDREVDCPKLQVEVFASLGHRNPSSTIHQNLHIGNLPSSLLIHQNPFQPIIVNHTRYMNIAAMPAYANYSVEEIRLGFMIEELVKDRVPLKSSDSSLFSGTWTPTTAGKYRIECKVDGSDISHTYTVEVTERPHRAGKGTITKPSGSRRGAQMTVARTVSIPFSSDFSGIRMRLGTTLASTSVGVIPRGALVEFIEEMDNDDGKWIRLTDETALLYGCNQGVGQVWCLAYHRPLQRELIPLKADTDREKAVKLRRKEIEKESNGSKHHSVSIDAKETYILSPNDVLQVYSTPAPHSMIDGEKIIGPCDLMSSGWLANRHGVWIKLTGVEKYVLQKNDPSSETSLSFSTNGNDEEDLERPIERKKTRLPNALTPSVADCIRAVFAAFVWHEHLVKDLMAAAAYLRFHQNLHNIWQSCEIPSCTNAPAALQPIVKIWREICEVVETSVEQHLIMPPVSNKAMRAETVKPPSRSGGCELCDANITVPLTVHLRMAHPGCGGDCLGYGYNSNGKFTTGWSGECGAGGRGQSPWYLLCNTCRSQYLKKTPAGHHQERTRRWREFRFSTSASDARPEVIIRQNAMFLLDLNSRLQTESNSSSTATSGWTINLFPTHLSTPSTMPRSQQKRLDVPPNNSVHQNSYMKLGYSSDPGPKVNVIMSPPNQGADQSASLNRPGPSAINEPAEVLQSPSAALRTLFSNTNPSTSALLKRPVLAFCVEHHDLKRIKSACVQSVRRAVAFSHAFRVWNWLLRMVSSEYSVSDIILQYLTTLTSYNRLAEYMFSAKKNSNILPHPWRLCFLAGPIAADMVTQLHAFLHTVSIILQSAGVDGRLKSLCFKSWTLQLTAQEQDLLILTCNILGTVGGILSDTSILDSDNRFVKEMKDITKFADITASSRQAMVICLTDESGETFWESGEEDKNRSRSLSVQLDESAHGEILSLFIDNARDEGYRISSIAFKAILEDGRRKDLTSLTLESAYCGWLKCCIKDISHIQIQFKGPNPASRIRQLMILGYPAKTTGTPRLAPSTSHHLFFSDTQRDAFALFQAISSQAFCGELSEDDTLRERVIDLLFSRVQLYPLQNYVYTQVVQAMEKEVELLCDKSKRNYSYCCGLMSLLVRICDSRGNMDSFGQRNSVLTSITQLLIFSPVVVQRQCLNSLECIFASFTPSNVEVPKIIRNLLVVVGKVIQLQVRDKAAHTVVTVHLCSSVLNAPQNWRVDKSIDMDIGRQTAVLVENLCNGTYTPEWSNATKCELANCLLSLIQMPESVSYTETLSTGGKSKAVAVVSSKRFWTAISSLSLIKDKSWLELSERWKTVQDEEDQEPVLLCENHDDGHTVAQVFCVDCDVALCKECFTVMHLHKKNRNHGVKNLVQSSTQHDINIHQGCARMKFLNFLILFHGEALNGMVEVAADTLFPTSTSSIQPAMQSSSAFLGIHPMTCRFCGNNVPVEDQSLDGTCTHEDCVNYAKTACQVMHTCNHFCGGIRNEEECLPCMTCKREDAAQDGDDVCVICFTERLGAAPCIRLGCGHMFHFHCVRMILERRWNGPRIVFRFMQCPLCIQPIEHSGLQDLIEPLKTIRQEVVDKAKMRLEYDGLLTTPALTDPRSEFYNQPEEYALDRYMYVLCHKCKKAYFGGESRCQAALDSSQFNPEELLCGGCSDTSGVQVCPRHGVEYLEYKCRFCCSIAVYFCFGTTHFCAPCHDDFQRLMSLPKHLLPTCPVGPRSTPMEEQTCPLKMKHPPTGDEFAMGCGICRNISTF |
| 5287 | sp|Q99942|RNF5\_HUMAN | MAAAEEEDGGPEGPNRERGGAGATFECNICLETAREAVVSVCGHLYCWPCLHQWLETRPERQECPVCKAGISREKVVPLYGRGSQKPQDPRLKTPPRPQGQRPAPESRGGFQPFGDTGGFHFSFGVGAFPFGFFTTVFNAHEPFRRGTGVDLGQGHPASSWQDSLFLFLAIFFFFWLLSI |
| 5288 | sp|O14802|RPC1\_HUMAN | MVKEQFRETDVAKKISHICFGMKSPEEMRQQAHIQVVSKNLYSQDNQHAPLLYGVLDHRMGTSEKDRPCETCGKNLADCLGHYGYIDLELPCFHVGYFRAVIGILQMICKTCCHIMLSQEEKKQFLDYLKRPGLTYLQKRGLKKKISDKCRKKNICHHCGAFNGTVKKCGLLKIIHEKYKTNKKVVDPIVSNFLQSFETAIEHNKEVEPLLGRAQENLNPLVVLNLFKRIPAEDVPLLLMNPEAGKPSDLILTRLLVPPLCIRPSVVSDLKSGTNEDDLTMKLTEIIFLNDVIKKHRISGAKTQMIMEDWDFLQLQCALYINSELSGIPLNMAPKKWTRGFVQRLKGKQGRFRGNLSGKRVDFSGRTVISPDPNLRIDEVAVPVHVAKILTFPEKVNKANINFLRKLVQNGPEVHPGANFIQQRHTQMKRFLKYGNREKMAQELKYGDIVERHLIDGDVVLFNRQPSLHKLSIMAHLARVKPHRTFRFNECVCTPYNADFDGDEMNLHLPQTEEAKAEALVLMGTKANLVTPRNGEPLIAAIQDFLTGAYLLTLKDTFFDRAKACQIIASILVGKDEKIKVRLPPPTILKPVTLWTGKQIFSVILRPSDDNPVRANLRTKGKQYCGKGEDLCANDSYVTIQNSELMSGSMDKGTLGSGSKNNIFYILLRDWGQNEAADAMSRLARLAPVYLSNRGFSIGIGDVTPGQGLLKAKYELLNAGYKKCDEYIEALNTGKLQQQPGCTAEETLEALILKELSVIRDHAGSACLRELDKSNSPLTMALCGSKGSFINISQMIACVGQQAISGSRVPDGFENRSLPHFEKHSKLPAAKGFVANSFYSGLTPTEFFFHTMAGREGLVDTAVKTAETGYMQRRLVKSLEDLCSQYDLTVRSSTGDIIQFIYGGDGLDPAAMEGKDEPLEFKRVLDNIKAVFPCPSEPALSKNELILTTESIMKKSEFLCCQDSFLQEIKKFIKGVSEKIKKTRDKYGINDNGTTEPRVLYQLDRITPTQVEKFLETCRDKYMRAQMEPGSAVGALCAQSIGEPGTQMTLKTFHFAGVASMNITLGVPRIKEIINASKAISTPIITAQLDKDDDADYARLVKGRIEKTLLGEISEYIEEVFLPDDCFILVKLSLERIRLLRLEVNAETVRYSICTSKLRVKPGDVAVHGEAVVCVTPRENSKSSMYYVLQFLKEDLPKVVVQGIPEVSRAVIHIDEQSGKEKYKLLVEGDNLRAVMATHGVKGTRTTSNNTYEVEKTLGIEAARTTIINEIQYTMVNHGMSIDRRHVMLLSDLMTYKGEVLGITRFGLAKMKESVLMLASFEKTADHLFDAAYFGQKDSVCGVSECIIMGIPMNIGTGLFKLLHKADRDPNPPKRPLIFDTNEFHIPLVT |
| 5289 | sp|Q9QZR0|RNF25\_MOUSE | MAASASTAAGEEDWVLPSEVEVLESIYLDELQVMKGNGRSPWEIFITLHPATAEVQDSQFVCFTLVLRIPVQYPHEVPQISIRNPRGLSDEQIHKISQALGHVAKEGLGTAMLYELIEKGKEILTDNNIPHGQCVICLYGFQEKEAFTKTPCYHYFHCHCLARYIQHMEQELTTQEQEQERQHVVTKQKAVGVQCPVCREPLVYDLASLKAAPEPQQPMELYQPSAESLRQQEELKLLYQRQQEKGGIIDLEAERNRYFISLQQPPAALEPESAVDVSREPQPPNALSAEQSTSLADQSTLPTSLPMTTQYTYEKTSGAGPNQQRPGETQKSVLDPPRHGRGSWRQYDRRHPKGGECCTPKGTSEIHELPPPEKPLKETVDLKAEPRNKGLTGHPQEKGPGSWQGPSARRTRDCARWERSKNRTPGSCYPHLPRGQGAYRSGTRREPLGLESEEGS |
| 5290 | sp|P10155|RO60\_HUMAN | MEESVNQMQPLNEKQIANSQDGYVWQVTDMNRLHRFLCFGSEGGTYYIKEQKLGLENAEALIRLIEDGRGCEVIQEIKSFSQEGRTTKQEPMLFALAICSQCSDISTKQAAFKAVSEVCRIPTHLFTFIQFKKDLKESMKCGMWGRALRKAIADWYNEKGGMALALAVTKYKQRNGWSHKDLLRLSHLKPSSEGLAIVTKYITKGWKEVHELYKEKALSVETEKLLKYLEAVEKVKRTRDELEVIHLIEEHRLVREHLLTNHLKSKEVWKALLQEMPLTALLRNLGKMTANSVLEPGNSEVSLVCEKLCNEKLLKKARIHPFHILIALETYKTGHGLRGKLKWRPDEEILKALDAAFYKTFKTVEPTGKRFLLAVDVSASMNQRVLGSILNASTVAAAMCMVVTRTEKDSYVVAFSDEMVPCPVTTDMTLQQVLMAMSQIPAGGTDCSLPMIWAQKTNTPADVFIVFTDNETFAGGVHPAIALREYRKKMDIPAKLIVCGMTSNGFTIADPDDRGMLDMCGFDTGALDVIRNFTLDMI |
| 5291 | sp|P47708|RP3A\_MOUSE | MTDTVVNRWMYPGDGPLQSNDKEQLQAGWSVHPGAQTDRQRKQEELTDEEKEIINRVIARAEKMEAMEQERIGRLVDRLETMRKNVAGDGVNRCILCGEQLGMLGSACVVCEDCKKNVCTKCGVETSNNRPHPVWLCKICLEQREVWKRSGAWFFKGFPKQVLPQPMPIKKTKPQQPAGEPATQEQPTPESRHPARAPARGDMEDRRPPGQKPGPDLTSAPGRGSHGPPTRRASEARMSTAARDSEGWDHAHGGGTGDTSRSPAGLRRANSVQAARPAPAPVPSPAPPQPVQPGPPGGSRATPGPGRFPEQSTEAPPSDPGYPGAVAPAREERTGPAGGFQAAPHTAAPYSQAAPARQPPPAEEEEEEANSYDSDEATTLGALEFSLLYDQDNSNLQCTIIRAKGLKPMDSNGLADPYVKLHLLPGASKSNKLRTKTLRNTRNPVWNETLQYHGITEEDMQRKTLRISVCDEDKFGHNEFIGETRFSLKKLKANQRKNFNICLERVIPMKRAGTTGSARGMALYEEEQVERIGDIEERGKILVSLMYSTQQGGLIVGIIRCVHLAAMDANGYSDPFVKLWLKPDMGKKAKHKTQIKKKTLNPEFNEEFFYDIKHSDLAKKSLDISVWDYDIGKSNDYIGGCQLGISAKGERLKHWYECLKNKDKKIERWHQLQNENHVSSD |
| 5292 | sp|Q8K4Q0|RPTOR\_MOUSE | MESEMLQSPLMGLGEEDEADLTDWNLPLAFMKKRHCEKIEGSKSLAQSWRMKDRMKTVSVALVLCLNVGVDPPDVVKTTPCARLECWIDPLSMGPQKALETIGANLQKQYENWQPRARYKQSLDPTVDEVKKLCTSLRRNAKEERVLFHYNGHGVPRPTVNGEVWVFNKNYTQYIPLSIYDLQTWMGSPSIFVYDCSNAGLIVKSFKQFALQREQELEVAAINPNHPLAQMPLPPSMKNCIQLAACEAHELLPMIPDLPADLFTSCLTTPIKIALRWFCMQKCVSLVPGVTLDLIEKIPGRLNDRRTPLGELNWIFTAITDTIAWNVLPRDLFQKLFRQDLLVASLFRNFLLAERIMRSYNCTPVSSPRLPPTYMHAMWQAWDLAVDICLSQLPTIIEEGTAFRHSPFFAEQLTAFQVWLTMGVENRSPPEQLPIVLQVLLSQVHRLRALDLLGRFLDLGPWAVSLALSVGIFPYVLKLLQSSARELRPLLVFIWAKILAVDSSCQADLVKDNGHKYFLSVLADPYMPAEHRTMTAFILAVIVNSYTTGQEACLQGNLIAICLEQLSDPHPLLRQWVAICLGRIWQNFDSARWCGVRDSAHEKLYSLLSDPIPEVRCAAVFALGTFVGNSAERTDHSTTIDHNVAMMLAQLINDGSPMVRKELVVALSHLVVQYESNFCTVALQFMEEEKNYPLPSPAATEGGSLTPVRDSPCTPRLRSVSSYGNIRAVTTARNLNKSLQNLSLTEESGSSVAFSPGNLSTSSSASSTLGSPENEEYILSFETIDKMRRVSSYSALNSLIGVSFNSVYTQIWRVLLHLAADPYPDVSDLAMKVLNSIAYKATVNARPQRILDTSSLTQSAPASPTNKGMHMHQVGGSPPASSTSSCSLTNDVAKQTVSRDLPSSRPGTAGPTGAQYTPHSHQFPRTRKMFDKGPDQTTDDADDAAGHKSFICASMQTGFCDWSARYFAQAVMKIPEEHDLESQIRKEREWRFLRNTRVRKQAQQVIQKGITRLDDQIFLNRNPGVPSVVKFHPFTPCIAVADKDSICFWDWEKGEKLDYFHNGNPRYTRVTAMEYLNGQDCSLLLTATDDGAIRVWKNFADLEKNPEMVTAWQGLSDMLPTTRGAGMVVDWEQETGLLMSSGDVRIVRIWDTDRETKVQDIPTGADSCVTSLSCDSHRSLIVAGLGDGSIRVYDRRMALSECRVMTYREHTAWVVKAYLQKHPEGHIVSVSVNGDVRFFDPRMPESVNVMQIVKGLTALDIHPQANLIACGSMNQFTAIYNGNGELINNIKYYDGFMGQRVGAISCLAFHPHWPHLAVGSNDYYISVYSVEKRVR |
| 5293 | sp|Q62190|RON\_MOUSE | MGLPLPLLQSSLLLMLLLRLSAASTNLNWQCPRIPYAASRDFSVKYVVPSFSAGGRVQATAAYEDSTNSAVFVATRNHLHVLGPDLQFIENLTTGPIGNPGCQTCASCGPGPHGPPKDTDTLVLVMEPGLPALVSCGSTLQGRCFLHELEPRGKALHLAAPACLFSANNNKPEACTDCVASPLGTRVTVVEQGHASYFYVASSLDPELAASFSPRSVSIRRLKSDTSGFQPGFPSLSVLPKYLASYLIKYVYSFHSGDFVYFLTVQPISVTSPPSALHTRLVRLNAVEPEIGDYRELVLDCHFAPKRRRRGAPEGTQPYPVLQAAHSAPVDAKLAVELSISEGQEVLFGVFVTVKDGGSGMGPNSVVCAFPIYHLNILIEEGVEYCCHSSNSSSLLSRGLDFFQTPSFCPNPPGGEASGPSSRCHYFPLMVHASFTRVDLFNGLLGSVKVTALHVTRLGNVTVAHMGTVDGRVLQVEIARSLNYLLYVSNFSLGSSGQPVHRDVSRLGNDLLFASGDQVFKVPIQGPGCRHFLTCWRCLRAQRFMGCGWCGDRCDRQKECPGSWQQDHCPPEISEFYPHSGPLRGTTRLTLCGSNFYLRPDDVVPEGTHQITVGQSPCRLLPKDSSSPRPGSLKEFIQELECELEPLVTQAVGTTNISLVITNMPAGKHFRVEGISVQEGFSFVEPVLTSIKPDFGPRAGGTYLTLEGQSLSVGTSRAVLVNGTQCRLEQVNEEQILCVTPPGAGTARVPLHLQIGGAEVPGSWTFHYKEDPIVLDISPKCGYSGSHIMIHGQHLTSAWHFTLSFHDGQSTVESRCAGQFVEQQQRRCRLPEYVVRNPQGWATGNLSVWGDGAAGFTLPGFRFLPPPSPLRAGLVELKPEEHSVKVEYVGLGAVADCVTVNMTVGGEVCQHELRGDVVICPLPPSLQLGKDGVPLQVCVDGGCHILSQVVRSSPGRASQRILLIALLVLILLVAVLAVALIFNSRRRKKQLGAHSLSPTTLSDINDTASGAPNHEESSESRDGTSVPLLRTESIRLQDLDRMLLAEVKDVLIPHEQVVIHTDQVIGKGHFGVVYHGEYTDGAQNQTHCAIKSLSRITEVQEVEAFLREGLLMRGLHHPNILALIGIMLPPEGLPRVLLPYMRHGDLLHFIRSPQRNPTVKDLVSFGLQVACGMEYLAEQKFVHRDLAARNCMLDESFTVKVADFGLARGVLDKEYYSVRQHRHARLPVKWMALESLQTYRFTTKSDVWSFGVLLWELLTRGAPPYPHIDPFDLSHFLAQGRRLPQPEYCPDSLYHVMLRCWEADPAARPTFRALVLEVKQVVASLLGDHYVQLTAAYVNVGPRAVDDGSVPPEQVQPSPQHCRSTSKPRPLSEPPLPT |
| 5294 | sp|P51449|RORG\_HUMAN | MDRAPQRQHRASRELLAAKKTHTSQIEVIPCKICGDKSSGIHYGVITCEGCKGFFRRSQRCNAAYSCTRQQNCPIDRTSRNRCQHCRLQKCLALGMSRDAVKFGRMSKKQRDSLHAEVQKQLQQRQQQQQEPVVKTPPAGAQGADTLTYTLGLPDGQLPLGSSPDLPEASACPPGLLKASGSGPSYSNNLAKAGLNGASCHLEYSPERGKAEGRESFYSTGSQLTPDRCGLRFEEHRHPGLGELGQGPDSYGSPSFRSTPEAPYASLTEIEHLVQSVCKSYRETCQLRLEDLLRQRSNIFSREEVTGYQRKSMWEMWERCAHHLTEAIQYVVEFAKRLSGFMELCQNDQIVLLKAGAMEVVLVRMCRAYNADNRTVFFEGKYGGMELFRALGCSELISSIFDFSHSLSALHFSEDEIALYTALVLINAHRPGLQEKRKVEQLQYNLELAFHHHLCKTHRQSILAKLPPKGKLRSLCSQHVERLQIFQHLHPIVVQAAFPPLYKELFSTETESPVGLSK |
| 5295 | sp|P51450|RORG\_MOUSE | MDRAPQRHHRTSRELLAAKKTHTSQIEVIPCKICGDKSSGIHYGVITCEGCKGFFRRSQQCNVAYSCTRQQNCPIDRTSRNRCQHCRLQKCLALGMSRDAVKFGRMSKKQRDSLHAEVQKQLQQQQQQEQVAKTPPAGSRGADTLTYTLGLSDGQLPLGASPDLPEASACPPGLLRASGSGPPYSNTLAKTEVQGASCHLEYSPERGKAEGRDSIYSTDGQLTLGRCGLRFEETRHPELGEPEQGPDSHCIPSFCSAPEVPYASLTDIEYLVQNVCKSFRETCQLRLEDLLRQRTNLFSREEVTSYQRKSMWEMWERCAHHLTEAIQYVVEFAKRLSGFMELCQNDQIILLTAGAMEVVLVRMCRAYNANNHTVFFEGKYGGVELFRALGCSELISSIFDFSHFLSALCFSEDEIALYTALVLINANRPGLQEKRRVEHLQYNLELAFHHHLCKTHRQGLLAKLPPKGKLRSLCSQHVEKLQIFQHLHPIVVQAAFPPLYKELFSTDVESPEGLSK |
| 5296 | sp|O43159|RRP8\_HUMAN | MFEEPEWAEAAPVAAGLGPVISRPPPAASSQNKGSKRRQLLATLRALEAASLSQHPPSLCISDSEEEEEERKKKCPKKASFASASAEVGKKGKKKCQKQGPPCSDSEEEVERKKKCHKQALVGSDSAEDEKRKRKCQKHAPINSAQHLDNVDQTGPKAWKGSTTNDPPKQSPGSTSPKPPHTLSRKQWRNRQKNKRRCKNKFQPPQVPDQAPAEAPTEKTEVSPVPRTDSHEARAGALRARMAQRLDGARFRYLNEQLYSGPSSAAQRLFQEDPEAFLLYHRGFQSQVKKWPLQPVDRIARDLRQRPASLVVADFGCGDCRLASSIRNPVHCFDLASLDPRVTVCDMAQVPLEDESVDVAVFCLSLMGTNIRDFLEEANRVLKPGGLLKVAEVSSRFEDVRTFLRAVTKLGFKIVSKDLTNSHFFLFDFQKTGPPLVGPKAQLSGLQLQPCLYKRR |
| 5297 | sp|P55017|S12A3\_HUMAN | MAELPTTETPGDATLCSGRFTISTLLSSDEPSPPAAYDSSHPSHLTHSSTFCMRTFGYNTIDVVPTYEHYANSTQPGEPRKVRPTLADLHSFLKQEGRHLHALAFDSRPSHEMTDGLVEGEAGTSSEKNPEEPVRFGWVKGVMIRCMLNIWGVILYLRLPWITAQAGIVLTWIIILLSVTVTSITGLSISAISTNGKVKSGGTYFLISRSLGPELGGSIGLIFAFANAVGVAMHTVGFAETVRDLLQEYGAPIVDPINDIRIIAVVSVTVLLAISLAGMEWESKAQVLFFLVIMVSFANYLVGTLIPPSEDKASKGFFSYRADIFVQNLVPDWRGPDGTFFGMFSIFFPSATGILAGANISGDLKDPAIAIPKGTLMAIFWTTISYLAISATIGSCVVRDASGVLNDTVTPGWGACEGLACSYGWNFTECTQQHSCHYGLINYYQTMSMVSGFAPLITAGIFGATLSSALACLVSAAKVFQCLCEDQLYPLIGFFGKGYGKNKEPVRGYLLAYAIAVAFIIIAELNTIAPIISNFFLCSYALINFSCFHASITNSPGWRPSFQYYNKWAALFGAIISVVIMFLLTWWAALIAIGVVLFLLLYVIYKKPEVNWGSSVQAGSYNLALSYSVGLNEVEDHIKNYRPQCLVLTGPPNFRPALVDFVGTFTRNLSLMICGHVLIGPHKQRMPELQLIANGHTKWLNKRKIKAFYSDVIAEDLRRGVQILMQAAGLGRMKPNILVVGFKKNWQSAHPATVEDYIGILHDAFDFNYGVCVMRMREGLNVSKMMQAHINPVFDPAEDGKEASARVDPKALVKEEQATTIFQSEQGKKTIDIYWLFDDGGLTLLIPYLLGRKRRWSKCKIRVFVGGQINRMDQERKAIISLLSKFRLGFHEVHILPDINQNPRAEHTKRFEDMIAPFRLNDGFKDEATVNEMRRDCPWKISDEEITKNRVKSLRQVRLNEIVLDYSRDAALIVITLPIGRKGKCPSSLYMAWLETLSQDLRPPVILIRGNQENVLTFYCQ |
| 5298 | sp|Q80U62|RUBIC\_MOUSE | MRPEGAGMDLGGGDGERLLEKSRREHWQLLGNLKTTVEGLVSANCPNVWSKYGGLERLCRDMQNILYHGLIHDQVCCRQADYWQFVKDIRWLSPHSALHVEKFISLHESDQSDTDSVSERAVAELWLQHSLQCHCLSAQLRPLLGDRQYIRKFYTETAFLLSDAHVTAMLQCLEAVEQNNPRLLAQIDASMFARKQESPLLVTKSQSLTALPGSTYTPPASYAQHSYFGSSSSLQSMPQSSHSSERRSTSFSLSGPSWQPQEDRECLSPAETQTTPAPLPSDSTLAQDSPLTAQEMSDSTLTSPLEASWVSSQNDSPSDVSEGPEYLAIGNPAPHGRTASCESHSSNGESSSSHLFSSSSSQKLESAASSLGDQEEGRQSQAGSVLRRSSFSEGQTAPVASGTKKSHIRSHSDTNIASRGAAGGPRNITIIVEDPIAEGGQYLCSGEGMFRRPSEGQSLISYLSEQDFGSCADLEKENAHFSISESLIAAIELMKCNMMSQCLEEEEVEEEDSDREIQELKQKIRLRRQQIRTKNLLPAYRETENGSFRVTSSSSQFSSRDSTQLSESGSAEDADDLEIQDADIRRSAVSNGKSSFSQNLSHCFLHSTSAEAVAMGLLKQFEGMQLPAASELEWLVPEHDAPQKLLPIPDSLPISPDDGQHADIYKLRIRVRGNLEWAPPRPQIIFNVHPAPTRKIAVAKQNYRCAGCGIRTDPDYIKRLRYCEYLGKYFCQCCHENAQMVVPSRILRKWDFSKYYVSNFSKDLLLKIWNDPLFNVQDINSALYRKVKLLNQVRLLRVQLYHMKNMFKTCRLAKELLDSFDVVPGHLTEDLHLYSLSDLTATKKGELGPRLAELTRAGAAHVERCMLCQAKGFICEFCQNEEDVIFPFELHKCRTCEECKACYHKTCFKSGRCPRCERLQARRELLAKQSLESYLSDYEEEPTEALALEATVLETT |
| 5299 | sp|P21673|SAT1\_HUMAN | MAKFVIRPATAADCSDILRLIKELAKYEYMEEQVILTEKDLLEDGFGEHPFYHCLVAEVPKEHWTPEGHSIVGFAMYYFTYDPWIGKLLYLEDFFVMSDYRGFGIGSEILKNLSQVAMRCRCSSMHFLVAEWNEPSINFYKRRGASDLSSEEGWRLFKIDKEYLLKMATEE |
| 5300 | sp|P55012|S12A2\_MOUSE | MEPGPARPRLAPAARPGWGRAAGCRRRGGPARHGRASGQEDATTAGRQAGGGVRGEGTPAAGDGLGRPLGPTPSQSRFQVDPVSENAGRAAAAAAAAAAAAAAAGAAGKETPAAGKAGGESGVAKGSEEAKGRFRVNFVDPAASSSADDSLSDAAGVGGDGPNVSFQNGGDTVLSEGSSLHSGGGSGHHQQYYYDTHTNTYYLRTFGHNTMDAVPRIDHYRHTAAQLGEKLLRPSLAELHDELEKEPFEDGFANGEESTPTRDAVVAYTAESKGVVKFGWIKGVLVRCMLNIWGVMLFIRLSWIVGQAGIGLSVVVIAMATVVTTITGLSTSAIATNGFVRGGGAYYLISRSLGPEFGGAIGLIFAFANAVAVAMYVVGFAETVVELLKEHSILMIDEINDIRIIGAITVVILLGISVAGMEWEAKAQIVLLVILLLAIADFVIGTFISLESKKPKGFFGYKSEIFNENFGPDFREEETFFSVFAIFFPAATGILAGANISGDLADPQSAIPKGTLLAILITTVVYIGIAVSVGSCVVRDATGNVNDTITTELTNCTSAACKLNFDFSYCESNTCSYGLMNNFQVMSMVSGFAPLISAGIFSATLSSALASLVSAPKIFQALCKDNIYPAFQMFAKGYGKNNEPLRGYILTFLIALGFILIAELNVIAPIISNFFLASYALINFSVFHASLAKSPGWRPAFKYYNMWISLIGAILCCIVMFVINWWAALLTYVIVLGLYIYVTYKKPDVNWGSSTQALTYLSALQHSIRLSGVEDHVKNFRPQCLVMTGSPNSRPALLHLVHDFTKNVGLMICGHVHMGPRRQAMKEMSIDQARYQRWLIKNKMKAFYAPVHADDLREGAQYLMQAAGLGRMKPNTLVLGFKKDWLQADMRDVDMYINLFHDAFDIQFGVVVIRLKEGLDISHLQGQEELLSSQEKSPGTKDVVVNVDYSKKSDQDTCKSSGEKSITQKDEEEDGKTPTQPLLKKESKGPIVPLNVADQKLLEASTQFQKKQGKNTIDVWWLFDDGGLTLLIPYLLTTKKKWKDCKIRVFIGGKINRIDHDRRAMATLLSKFRIDFSDIMVLGDINTKPKKENIIAFDDMIEPYRLHEDDKEQDIADKMKEDEPWRITDNELELYKTKTYRQIRLNELLKEHSSTANIIVMSLPVARKGAVSSALYMAWLEALSKDLPPVLLVRGNHQSVLTFYS |
| 5301 | sp|P55014|S12A1\_MOUSE | MSVSIPSNSVPSSASRFQVHVINEGHGSAAAVGDSADPPHYEETSFGDEAQNRLRISFRPGNQECYDNFLQTGETAKTDTTFHAYDSHTNTYYLQTFGHNTMDAVPKIEYYRNTGSVSGPKVNRPSLLEIHEQLAKNVTVAPGSADRVANGDGMPGDEQAENKEEDMTGVVKFGWVKGVLVRCMLNIWGVMLFIRLSWIVGEAGIGLGVLIILLSTMVTSITGLSTSAIATNGFVRGGGAYYLISRSLGPEFGGSIGLIFAFANAVAVAMYVVGFAETVVDLLKESDSMMVDPTNDIRIIGSITVVILLGISVAGMEWEAKAQVILLVILLIAIANFFIGTVIPSNNEKKSRGFFNYQASIFAENFGPSFTKGEGFFSVFAIFFPAATGILAGANISGDLEDPQDAIPRGTMLAIFITTVAYIGVAICVAACVVRDATGSMNDTIVSGMNCNGSAACGLGYDFSRCQHEPCQYGLMNNFQVMSMVSGFGPLITAGIFSATLSSALASLVSAPKVFQALCKDNIFKGLQFFAKGYGKNNEPLRGYFLTFVIAMAFILIAELNVIAPIISNFFLASYALINFSCFHASYAKSPGWRPAYGIYNMWVSLFGAILCCAVMFVINWWAAVITYVIELFLYIYVTYKKPDVNWGSSTQALSYVSALDNALELTTVEDHVKNFRPQCIVLTGGPMTRPALLDITHAFTKNSGLCICCEVFVGPRKLCVKEMNSGMAKKQAWLIKNKIKAFYAAVAADCFRDGVRSLLQASGLGRMKPNTLVIGYKKNWRKAPLSELENYVGIIHDAFDFEIGVVIVRISQGFDISPVLQVQDELEKLEQERLALEAAIKDNECEEGKGGIRGLFKKAGKLNITKPAPKKDGNISSIQSMHVGEFNQKLVEASAQFKKKQGKGTIDVWWLFDDGGLTLLIPYILTLRKKWKDCKLRIYVGGKITRIEEEKISMASLLSKFRIKFADIHIIGDINIKPNKESWKVFEEMIEPYRLHESHKDLTTAEKLKRESPWKITDAELEAVKEKSYRQVRLNELLQEHSRAANLIVLSLPVARKGSISDLLYMAWLEILTKNLPPVLLVRGNHKNVLTFYS |
| 5302 | sp|Q9Y694|S22A7\_HUMAN | MGFEELLEQVGGFGPFQLRNVALLALPRVLLPLHFLLPIFLAAVPAHRCALPGAPANFSHQDVWLEAHLPREPDGTLSSCLRFAYPQALPNTTLGEERQSRGELEDEPATVPCSQGWEYDHSEFSSTIATESQWDLVCEQKGLNRAASTFFFAGVLVGAVAFGYLSDRFGRRRLLLVAYVSTLVLGLASAASVSYVMFAITRTLTGSALAGFTIIVMPLELEWLDVEHRTVAGVLSSTFWTGGVMLLALVGYLIRDWRWLLLAVTLPCAPGILSLWWVPESARWLLTQGHVKEAHRYLLHCARLNGRPVCEDSFSQEAVSKVAAGERVVRRPSYLDLFRTPRLRHISLCCVVVWFGVNFSYYGLSLDVSGLGLNVYQTQLLFGAVELPSKLLVYLSVRYAGRRLTQAGTLLGTALAFGTRLLVSSDMKSWSTVLAVMGKAFSEAAFTTAYLFTSELYPTVLRQTGMGLTALVGRLGGSLAPLAALLDGVWLSLPKLTYGGIALLAAGTALLLPETRQAQLPETIQDVERKSAPTSLQEEEMPMKQVQN |
| 5303 | sp|Q01959|SC6A3\_HUMAN | MSKSKCSVGLMSSVVAPAKEPNAVGPKEVELILVKEQNGVQLTSSTLTNPRQSPVEAQDRETWGKKIDFLLSVIGFAVDLANVWRFPYLCYKNGGGAFLVPYLLFMVIAGMPLFYMELALGQFNREGAAGVWKICPILKGVGFTVILISLYVGFFYNVIIAWALHYLFSSFTTELPWIHCNNSWNSPNCSDAHPGDSSGDSSGLNDTFGTTPAAEYFERGVLHLHQSHGIDDLGPPRWQLTACLVLVIVLLYFSLWKGVKTSGKVVWITATMPYVVLTALLLRGVTLPGAIDGIRAYLSVDFYRLCEASVWIDAATQVCFSLGVGFGVLIAFSSYNKFTNNCYRDAIVTTSINSLTSFSSGFVVFSFLGYMAQKHSVPIGDVAKDGPGLIFIIYPEAIATLPLSSAWAVVFFIMLLTLGIDSAMGGMESVITGLIDEFQLLHRHRELFTLFIVLATFLLSLFCVTNGGIYVFTLLDHFAAGTSILFGVLIEAIGVAWFYGVGQFSDDIQQMTGQRPSLYWRLCWKLVSPCFLLFVVVVSIVTFRPPHYGAYIFPDWANALGWVIATSSMAMVPIYAAYKFCSLPGSFREKLAYAIAPEKDRELVDRGEVRQFTLRHWLKV |
| 5304 | sp|Q9Y3Z3|SAMH1\_HUMAN | MQRADSEQPSKRPRCDDSPRTPSNTPSAEADWSPGLELHPDYKTWGPEQVCSFLRRGGFEEPVLLKNIRENEITGALLPCLDESRFENLGVSSLGERKKLLSYIQRLVQIHVDTMKVINDPIHGHIELHPLLVRIIDTPQFQRLRYIKQLGGGYYVFPGASHNRFEHSLGVGYLAGCLVHALGEKQPELQISERDVLCVQIAGLCHDLGHGPFSHMFDGRFIPLARPEVKWTHEQGSVMMFEHLINSNGIKPVMEQYGLIPEEDICFIKEQIVGPLESPVEDSLWPYKGRPENKSFLYEIVSNKRNGIDVDKWDYFARDCHHLGIQNNFDYKRFIKFARVCEVDNELRICARDKEVGNLYDMFHTRNSLHRRAYQHKVGNIIDTMITDAFLKADDYIEITGAGGKKYRISTAIDDMEAYTKLTDNIFLEILYSTDPKLKDAREILKQIEYRNLFKYVGETQPTGQIKIKREDYESLPKEVASAKPKVLLDVKLKAEDFIVDVINMDYGMQEKNPIDHVSFYCKTAPNRAIRITKNQVSQLLPEKFAEQLIRVYCKKVDRKSLYAARQYFVQWCADRNFTKPQDGDVIAPLITPQKKEWNDSTSVQNPTRLREASKSRVQLFKDDPM |
| 5305 | sp|Q6S5L8|SHC4\_HUMAN | MRERGQDSLAGLVLYVGLFGHPGMLHRAKYSRFRNESITSLDEGSSGGSVGNKGSPQPPHPALAPHLPTEDATLPSQESPTPLCTLIPRMASMKLANPATLLSLKNFCLGTKEVPRLKLQESRDPGSSGPSSPETSLSRSGTAPPPQQDLVGHRATALTPDSCPLPGPGEPTLRSRQDRHFLQHLLGMGMNYCVRYMGCVEVLQSMRSLDFGMRTQVTREAISRLCEAVPGANGAIKKRKPPVKFLSTVLGKSNLQFSGMNIKLTISTCSLTLMNLDNQQIIANHHMQSISFASGGDPDTTDYVAYVAKDPVNQRACHILECHNGMAQDVISTIGQAFELRFKQYLKNPSLNTSCESEEVHIDSHAEEREDHEYYNEIPGKQPPVGGVSDMRIKVQATEQMAYCPIQCEKLCYLPGNSKCSSVYENCLEQSRAIGNVHPRGVQSQRDTSLLKHTCRVDLFDDPCYINTQALQSTPGSAGNQRSAQPLGSPWHCGKAPETVQPGATAQPASSHSLPHIKQQLWSEECYHGKLSRKAAESLLVKDGDFLVRESATSPGQYVLSGLQGGQAKHLLLVDPEGKVRTKDHVFDNVGHLIRYHMDNSLPIISSGSEVSLKQPVRKDNNPALLHSNK |
| 5306 | sp|O14796|SH21B\_HUMAN | MDLPYYHGRLTKQDCETLLLKEGVDGNFLLRDSESIPGVLCLCVSFKNIVYTYRIFREKHGYYRIQTAEGSPKQVFPSLKELISKFEKPNQGMVVHLLKPIKRTSPSLRWRGLKLELETFVNSNSDYVDVLP |
| 5307 | sp|Q14141|SEPT6\_HUMAN | MAATDIARQVGEGCRTVPLAGHVGFDSLPDQLVNKSVSQGFCFNILCVGETGLGKSTLMDTLFNTKFEGEPATHTQPGVQLQSNTYDLQESNVRLKLTIVSTVGFGDQINKEDSYKPIVEFIDAQFEAYLQEELKIRRVLHTYHDSRIHVCLYFIAPTGHSLKSLDLVTMKKLDSKVNIIPIIAKADAISKSELTKFKIKITSELVSNGVQIYQFPTDDESVAEINGTMNAHLPFAVIGSTEELKIGNKMMRARQYPWGTVQVENEAHCDFVKLREMLIRVNMEDLREQTHTRHYELYRRCKLEEMGFKDTDPDSKPFSLQETYEAKRNEFLGELQKKEEEMRQMFVQRVKEKEAELKEAEKELHEKFDRLKKLHQDEKKKLEDKKKSLDDEVNAFKQRKTAAELLQSQGSQAGGSQTLKRDKEKKNNPWLCTE |
| 5308 | sp|O43147|SGSM2\_HUMAN | MGSAEDAVKEKLLWNVKKEVKQIMEEAVTRKFVHEDSSHIIALCGAVEACLLHQLRRRAAGFLRSDKMAALFTKVGKTCPVAGEICHKVQELQQQAEGRKPSGVSQEALRRQGSASGKAPALSPQALKHVWVRTALIEKVLDKVVQYLAENCSKYYEKEALLADPVFGPILASLLVGPCALEYTKLKTADHYWTDPSADELVQRHRIRGPPTRQDSPAKRPALGIRKRHSSGSASEDRLAACARECVESLHQNSRTRLLYGKNHVLVQPKEDMEAVPGYLSLHQSAESLTLKWTPNQLMNGTLGDSELEKSVYWDYALVVPFSQVVCIHCHQQKSGGTLVLVSQDGIQRPPLHFPQGGHLLSFLSCLENGLLPRGQLEPPLWTQQGKGKVFPKLRKRSSIRSVDMEEMGTGRATDYVFRIIYPGHRHEHNAGDMIEMQGFGPSLPAWHLEPLCSQGSSCLSCSSSSSPHATPSHCSCIPDRLPLRLLCESMKRQIVSRAFYGWLAHCRHLSTVRTHLSALVHHSVIPPDRPPGASAGLTKDVWSKYQKDKKNYKELELLRQVYYGGIEHEIRKDVWPFLLGHYKFGMSKKEMEQVDAVVAARYQQVLAEWKACEVVVRQREREAHPATRTKFSSGSSIDSHVQRLIHRDSTISNDVFISVDDLEPPEPQDPEDSRPKPEQEAGPGTPGTAVVEQQHSVEFDSPDSGLPSSRNYSVASGIQSSLDEGQSVGFEEEDGGGEEGSSGPGPAAHTLREPQDPSQEKPQAGELEAGEELAAVCAAAYTIELLDTVALNLHRIDKDVQRCDRNYWYFTPPNLERLRDVMCSYVWEHLDVGYVQGMCDLLAPLLVTLDNDQLAYSCFSHLMKRMSQNFPNGGAMDTHFANMRSLIQILDSELFELMHQNGDYTHFYFCYRWFLLDFKRELLYEDVFAVWEVIWAARHISSEHFVLFIALALVEAYREIIRDNNMDFTDIIKFFNERAEHHDAQEILRIARDLVHKVQMLIENK |
| 5309 | sp|D7PF45|SHIP2\_PIG | MASACGAPGPGAGPGAALGSPAPAWYHRDLSRAAAEELLARAGRDGSFLVRDSESVAGAFALCVLYQKHVHTYRILPDGEDFLAVQTSQGVPVRRFQTLGELIGLYAQPNQGLVCALLLPVERERELDPPDERDASDGEDEKPPLPPRSGTSVSAPLGPSSPPAAPEPPTPAVESAPNGLSTVSHEYLKGSYGLDLEAVRGGASNLPHLTRTLAASCRRLHSEVDKVLSGLEILSKVFDQQSSPMVTRLLQQQNPPQTGEQELESLVLKLSVLKDFLSGIQKKALKALQDMSSTAPPAPVQPSTRKAKTIPVQAFEVKLDVTLGDLTKIGKSQKFTLSVDVEGGRLVLLRRQRDSQEDWTTFTHDRIRQLIKSQRVQNKLGVVFEKEKERTQRKDFIFVSARKREAFCQLLQLMKNKHSKQDEPDMISVFIGTWNMGSVPPPRNVTSWFTSKGLGKTLDEVTVTIPHDIYVFGTQENSVGDREWLDLLRGGLKELTDLDYRPIAMQSLWNIKVAVLVKPEHENRISHVSTSSVKTGIANTLGNKGAVGVSFMFNGTSFGFVNCHLTSGNEKTARRNQNYLDILRLLSLGDRQLGAFDISLRFTHLFWFGDLNYRLDMDIQEILNYISRKEFEPLLRVDQLNLEREKHKVFLRFSEEEISFPPTYRYERGSRDTYAWHKQKPTGVRTNVPSWCDRILWKSHPETHIICNSYGCTDDIVTSDHSPVFGTFEVGVTSQFISKKGLSKTADQAYIEFESIEAIVKTASRTKFFIEFYSTCLEEYKKSFENDAQSSDNVNFLKVQWSSRQLPTLKPILDIEYLQDQHLLLTVKSMDGYESYGECVVALKSMIGSTAQQFLTFLSHRGEETGNIRGSMKVRVPTERLGTRERLYEWISIDKDEAGAKSKAPSVSRGSQEPRSGSRKPAPAEASCPLSKLFEEPEKPPPTGRPPAPPRAAPREEPLTPRLKPEGAPEPEGVAAPPPKNSFNNPAYYVLEGVPHQLLPPEPPSPARAPVPPATKNKVAITVPAPQLGRHRPPRVGEGSSSDEESGGTLPPPDFPPPPLPDSAIFLPPSREPLPGPGVRGRSGGEARALPPPKAHPRPPLPPGPLPPGTFLGEAAGGDDRSCSVLQVAKKLSEVDSAPPGPGRCLLLPGPLELQPARALPSDYGRPLSFPPPRIRESVQEDLAEEAPCPQAGRTGGLGEAGMGAWLRAIGLERYEEGLVHNGWDDLEFLSDITEEDLEEAGVQDPAHKRLLLDTLQLSK |
| 5310 | sp|Q92185|SIA8A\_HUMAN | MSPCGRARRQTSRGAMAVLAWKFPRTRLPMGASALCVVVLCWLYIFPVYRLPNEKEIVQGVLQQGTAWRRNQTAARAFRKQMEDCCDPAHLFAMTKMNSPMGKSMWYDGEFLYSFTIDNSTYSLFPQATPFQLPLKKCAVVGNGGILKKSGCGRQIDEANFVMRCNLPPLSSEYTKDVGSKSQLVTANPSIIRQRFQNLLWSRKTFVDNMKIYNHSYIYMPAFSMKTGTEPSLRVYYTLSDVGANQTVLFANPNFLRSIGKFWKSRGIHAKRLSTGLFLVSAALGLCEEVAIYGFWPFSVNMHEQPISHHYYDNVLPFSGFHAMPEEFLQLWYLHKIGALRMQLDPCEDTSLQPTS |
| 5311 | sp|O04130|SERA2\_ARATH | MAFSSSCSSVKAVNSRWTSPSPSPSSRFAVLPAFLHRRYATSVKLTAISAALKTVEQTTLTEDNRFSTVGSDSDEYNPTLPKPRILVTEKLGEAGVNLLREFGDVDCSYDLSPEDLKKKVAESDALIVRSGTKVTREVFEAAKGRLKVVGRAGVGIDNVDLQAATEHGCLVVNAPTANTVAAAEHGIALLASMARNVAQADASIKAGKWERSKYVGVSLVGKTLAVMGFGKVGTEVARRAKGLGMTVISHDPYAPADRARALGVDLVSFDQAISTADFVSLHMPLTPATKKVFNDETFSKMKKGVRLINVARGGVIDEDALVRALDAGIVAQAALDVFCEEPPSKDSRLIQHENVTVTPHLGASTKEAQEGVAIEIAEAVAGALKGELSATAVNAPMVAPEVLSELTPYIVLAEKLGRLAVQLASGGKGVQSIRVVYRSARDRDDLDTRLLRAMITKGIIEPISDSYVNLVNADFIAKQKGLRISEERMVVDSSPEYPVDSIQVQILNVESNFAGAVSDAGDISIEGKVKYGVPHLTCVGSFGVDVSLEGNLILCRQVDQPGMIGQVGNILGEQNVNVNFMSVGRTVLRKQAIMAIGVDEEPDNKTLERIGGVSAIEEFVFLKL |
| 5312 | sp|Q9Z143|SEM4F\_RAT | MLARAERPRPGPRPPPVFPFPPPLSLLLLLAILSAPVCGRVPRSVPRTSLPISEADSYLTRFAASHTYNYSALLVDPASHTLYVGARDSIFALTLPFSGERPRRIDWMVPETHRQNCRKKGKKEDECHNFIQILAIVNASHLLTCGTFAFDPKCGVIDVSSFQQVERLESGRGKCPFEPAQRSAAVMAGGVLYTATVKNFLGTEPIISRAVGRAEDWIRTETLSSWLNAPAFVAAMVLSPAEWGDEDGDDEIFFFFTETSRVLDSYERIKVPRVARVCAGDLGGRKTLQQRWTTFLKADLLCPGPEHGRASGVLQAMAELRPQPGAGTPIFYGIFSSQWEGAAISAVCAFRPQDIRAVLNGPFRELKHDCNRGLPVMDNEVPQPRPGECIANNMKLQQFGSSLSLPDRVLTFIRDHPLMDRPVFPADGRPLLVTTDTAYLRVVAHRVTSLSGKEYDVLYLGTEDGHLHRAVRIGAQLSVLEDLALFPEPQPVESMKLYHDWLLVGSHTEVTQVNTSNCGRLQSCSECILAQDPVCAWSFRLDACVAHAGEHRGMVQDIESADVSSLCPKEPGEHPVVFEVPVATVGHVVLPCSPSSAWASCVWHQPSGVTALTPRRDGLEVVVTPGAMGAYACECQEGGAARVVAAYSLVWGSQRGPSNRAHTVVGAGLVGFLLGVLAASLTLLLIGRRQQRRRQRELLARDKVGLDLGAPPSGTTSYSQDPPSPSPEDERLPLALGKRGSGFGGFPPPFLLDSCPSPAHIRLTGAPLATCDETSI |
| 5313 | sp|O15041|SEM3E\_HUMAN | MASAGHIITLLLWGYLLELWTGGHTADTTHPRLRLSHKELLNLNRTSIFHSPFGFLDLHTMLLDEYQERLFVGGRDLVYSLSLERISDGYKEIHWPSTALKMEECIMKGKDAGECANYVRVLHHYNRTHLLTCGTGAFDPVCAFIRVGYHLEDPLFHLESPRSERGRGRCPFDPSSSFISTLIGSELFAGLYSDYWSRDAAIFRSMGRLAHIRTEHDDERLLKEPKFVGSYMIPDNEDRDDNKVYFFFTEKALEAENNAHAIYTRVGRLCVNDVGGQRILVNKWSTFLKARLVCSVPGMNGIDTYFDELEDVFLLPTRDHKNPVIFGLFNTTSNIFRGHAICVYHMSSIRAAFNGPYAHKEGPEYHWSVYEGKVPYPRPGSCASKVNGGRYGTTKDYPDDAIRFARSHPLMYQAIKPAHKKPILVKTDGKYNLKQIAVDRVEAEDGQYDVLFIGTDNGIVLKVITIYNQEMESMEEVILEELQIFKDPVPIISMEISSKRQQLYIGSASAVAQVRFHHCDMYGSACADCCLARDPYCAWDGISCSRYYPTGTHAKRRFRRQDVRHGNAAQQCFGQQFVGDALDKTEEHLAYGIENNSTLLECTPRSLQAKVIWFVQKGRETRKEEVKTDDRVVKMDLGLLFLRLHKSDAGTYFCQTVEHSFVHTVRKITLEVVEEEKVEDMFNKDDEEDRHHRMPCPAQSSISQGAKPWYKEFLQLIGYSNFQRVEEYCEKVWCTDRKRKKLKMSPSKWKYANPQEKKLRSKPEHYRLPRHTLDS |
| 5314 | sp|P23246|SFPQ\_HUMAN | MSRDRFRSRGGGGGGFHRRGGGGGRGGLHDFRSPPPGMGLNQNRGPMGPGPGQSGPKPPIPPPPPHQQQQQPPPQQPPPQQPPPHQPPPHPQPHQQQQPPPPPQDSSKPVVAQGPGPAPGVGSAPPASSSAPPATPPTSGAPPGSGPGPTPTPPPAVTSAPPGAPPPTPPSSGVPTTPPQAGGPPPPPAAVPGPGPGPKQGPGPGGPKGGKMPGGPKPGGGPGLSTPGGHPKPPHRGGGEPRGGRQHHPPYHQQHHQGPPPGGPGGRSEEKISDSEGFKANLSLLRRPGEKTYTQRCRLFVGNLPADITEDEFKRLFAKYGEPGEVFINKGKGFGFIKLESRALAEIAKAELDDTPMRGRQLRVRFATHAAALSVRNLSPYVSNELLEEAFSQFGPIERAVVIVDDRGRSTGKGIVEFASKPAARKAFERCSEGVFLLTTTPRPVIVEPLEQLDDEDGLPEKLAQKNPMYQKERETPPRFAQHGTFEYEYSQRWKSLDEMEKQQREQVEKNMKDAKDKLESEMEDAYHEHQANLLRQDLMRRQEELRRMEELHNQEMQKRKEMQLRQEEERRRREEEMMIRQREMEEQMRRQREESYSRMGYMDPRERDMRMGGGGAMNMGDPYGSGGQKFPPLGGGGGIGYEANPGVPPATMSGSMMGSDMRTERFGQGGAGPVGGQGPRGMGPGTPAGYGRGREEYEGPNKKPRF |
| 5315 | sp|Q9H2E6|SEM6A\_HUMAN | MRSEALLLYFTLLHFAGAGFPEDSEPISISHGNYTKQYPVFVGHKPGRNTTQRHRLDIQMIMIMNGTLYIAARDHIYTVDIDTSHTEEIYCSKKLTWKSRQADVDTCRMKGKHKDECHNFIKVLLKKNDDALFVCGTNAFNPSCRNYKMDTLEPFGDEFSGMARCPYDAKHANVALFADGKLYSATVTDFLAIDAVIYRSLGESPTLRTVKHDSKWLKEPYFVQAVDYGDYIYFFFREIAVEYNTMGKVVFPRVAQVCKNDMGGSQRVLEKQWTSFLKARLNCSVPGDSHFYFNILQAVTDVIRINGRDVVLATFSTPYNSIPGSAVCAYDMLDIASVFTGRFKEQKSPDSTWTPVPDERVPKPRPGCCAGSSSLERYATSNEFPDDTLNFIKTHPLMDEAVPSIFNRPWFLRTMVRYRLTKIAVDTAAGPYQNHTVVFLGSEKGIILKFLARIGNSGFLNDSLFLEEMSVYNSEKCSYDGVEDKRIMGMQLDRASSSLYVAFSTCVIKVPLGRCERYGKCKKTCIASRDPYCGWIKEGGACSHLSPNSRLTFEQDIERGNTDGLGDCHNSFVALNGHSSSLLPSTTTSDSTAQEGYESRGGMLDWKHLLDSPDSTDPLGAVSSHNHQDKKGVIRESYLKGHDQLVPVTLLAIAVILAFVMGAVFSGITVYCVCDHRRKDVAVVQRKEKELTHSRRGSMSSVTKLSGLFGDTQSKDPKPEAILTPLMHNGKLATPGNTAKMLIKADQHHLDLTALPTPESTPTLQQKRKPSRGSREWERNQNLINACTKDMPPMGSPVIPTDLPLRASPSHIPSVVVLPITQQGYQHEYVDQPKMSEVAQMALEDQAATLEYKTIKEHLSSKSPNHGVNLVENLDSLPPKVPQREASLGPPGASLSQTGLSKRLEMHHSSSYGVDYKRSYPTNSLTRSHQATTLKRNNTNSSNSSHLSRNQSFGRGDNPPPAPQRVDSIQVHSSQPSGQAVTVSRQPSLNAYNSLTRSGLKRTPSLKPDVPPKPSFAPLSTSMKPNDACT |
| 5316 | sp|P23721|SERC\_ECOLI | MAQIFNFSSGPAMLPAEVLKQAQQELRDWNGLGTSVMEVSHRGKEFIQVAEEAEKDFRDLLNVPSNYKVLFCHGGGRGQFAAVPLNILGDKTTADYVDAGYWAASAIKEAKKYCTPNVFDAKVTVDGLRAVKPMREWQLSDNAAYMHYCPNETIDGIAIDETPDFGADVVVAADFSSTILSRPIDVSRYGVIYAGAQKNIGPAGLTIVIVREDLLGKANIACPSILDYSILNDNGSMFNTPPTFAWYLSGLVFKWLKANGGVAEMDKINQQKAELLYGVIDNSDFYRNDVAKANRSRMNVPFQLADSALDKLFLEESFAAGLHALKGHRVVGGMRASIYNAMPLEGVKALTDFMVEFERRHG |
| 5317 | sp|Q8RUW5|SCP8\_ARATH | MSLKIKFLLLLVLYHHVDSASIVKFLPGFEGPLPFELETGYIGIGEDENVQFFYYFIKSENNPKEDPLLIWLNGGPGCSCLGGIIFENGPVGLKFEVFNGSAPSLFSTTYSWTKMANIIFLDQPVGSGFSYSKTPIDKTGDISEVKRTHEFLQKWLSRHPQYFSNPLYVVGDSYSGMIVPALVQEISQGNYICCEPPINLQGYMLGNPVTYMDFEQNFRIPYAYGMGLISDEIYEPMKRICNGNYYNVDPSNTQCLKLTEEYHKCTAKINIHHILTPDCDVTNVTSPDCYYYPYHLIECWANDESVREALHIEKGSKGKWARCNRTIPYNHDIVSSIPYHMNNSISGYRSLIYSGDHDIAVPFLATQAWIRSLNYSPIHNWRPWMINNQIAGYTRAYSNKMTFATIKGGGHTAEYRPNETFIMFQRWISGQPL |
| 5318 | sp|Q61009|SCRB1\_MOUSE | MGGSSRARWVALGLGALGLLFAALGVVMILMVPSLIKQQVLKNVRIDPSSLSFGMWKEIPVPFYLSVYFFEVVNPNEVLNGQKPVVRERGPYVYREFRQKVNITFNDNDTVSFVENRSLHFQPDKSHGSESDYIVLPNILVLGGSILMESKPVSLKLMMTLALVTMGQRAFMNRTVGEILWGYDDPFVHFLNTYLPDMLPIKGKFGLFVGMNNSNSGVFTVFTGVQNFSRIHLVDKWNGLSKIDYWHSEQCNMINGTSGQMWAPFMTPESSLEFFSPEACRSMKLTYNESRVFEGIPTYRFTAPDTLFANGSVYPPNEGFCPCRESGIQNVSTCRFGAPLFLSHPHFYNADPVLSEAVLGLNPNPKEHSLFLDIHPVTGIPMNCSVKMQLSLYIKSVKGIGQTGKIEPVVLPLLWFEQSGAMGGKPLSTFYTQLVLMPQVLHYAQYVLLGLGGLLLLVPIICQLRSQEKCFLFWSGSKKGSQDKEAIQAYSESLMSPAAKGTVLQEAKL |
| 5319 | sp|P15367|SEC11\_YEAST | MNLRFELQKLLNVCFLFASAYMFWQGLAIATNSASPIVVVLSGSMEPAFQRGDILFLWNRNTFNQVGDVVVYEVEGKQIPIVHRVLRQHNNHADKQFLLTKGDNNAGNDISLYANKKIYLNKSKEIVGTVKGYFPQLGYITIWISENKYAKFALLGMLGLSALLGGE |
| 5320 | sp|B1AWN6|SCN2A\_MOUSE | MAQSVLVPPGPDSFRFFTRESLAAIEQRIAEEKAKRPKQERKDEDDENGPKPNSDLEAGKSLPFIYGDIPPEMVSEPLEDLDPYYINKKTFIVLNKGKAISRFSATSALYILTPFNPIRKLAIKILVHSLFNVLIMCTILTNCVFMTMSNPPDWTKNVEYTFTGIYTFESLIKILARGFCLEDFTFLRDPWNWLDFTVITFAYVTEFVNLGNVSALRTFRVLRALKTISVIPGLKTIVGALIQSVKKLSDVMILTVFCLSVFALIGLQLFMGNLRNKCLQWPPDNSTFEINITSFFNNSLDWNGTAFNRTMNMFNWDEYIEDKSHFYFLEGQNDALLCGNSSDAGQCPEGYICVKAGRNPNYGYTSFDTFSWAFLSLFRLMTQDFWENLYQLTLRAAGKTYMIFFVLVIFLGSFYLINLILAVVAMAYEEQNQATLEEAEQKEAEFQQMLEQLKKQQEEAQAAAAAASAESRDFSGAGGIGVFSESSSVASKLSSKSEKELKNRRKKKKQKEQAGEEEKEDAVRKSASEDSIRKKGFRFSLEGSRLTYEKRFSSPHQSLLSIRGSLFSPRRNSRASLFSFKGRVKDIGSENDFADDEHSTFEDNDSRRDSLFVPHRHGERRPSNVSQASRASRGIPTLPMNGKMHSAVDCNGVVSLVGGPSALTSPVGQLLPEGTTTETEIRKRRSSSYHVSMDLLEDPTSRQRAMSMASILTNTMEELEESRQKCPPCWYKFANMCLIWDCCKPWLKVKHVVNLVVMDPFVDLAITICIVLNTLFMAMEHYPMTEQFSSVLSVGNLVFTGIFTAEMFLKIIAMDPYYYFQEGWNIFDGFIVSLSLMELGLANVEGLSVLRSFRLLRVFKLAKSWPTLNMLIKIIGNSVGALGNLTLVLAIIVFIFAVVGMQLFGKSYKECVCKISNDCELPRWHMHDFFHSFLIVFRVLCGEWIETMWDCMEVAGQTMCLTVFMMVMVIGNLVVLNLFLALLLSSFSSDNLAATDDDNEMNNLQIAVGRMQKGIDFVKRKIREFIQKAFVRKQKALDEIKPLEDLNNKKDSCISNHTTIEIGKDLNYLKDGNGTTSGIGSSVEKYVVDESDYMSFINNPSLTVTVPIAVGESDFENLNTEEFSSESDMEESKEKLNATSSSEGSTVDIGAPAEGEQPEAEPEESLEPEACFTEDCVRKFKCCQISIEEGKGKLWWNLRKTCYKIVEHNWFETFIVFMILLSSGALAFEDIYIEQRKTIKTMLEYADKVFTYIFILEMLLKWVAYGFQMYFTNAWCWLDFLIVDVSLVSLTANALGYSELGAIKSLRTLRALRPLRALSRFEGMRVVVNALLGAIPSIMNVLLVCLIFWLIFSIMGVNLFAGKFYHCINYTTGEMFDVSVVNNYSECQALIESNQTARWKNVKVNFDNVGLGYLSLLQVATFKGWMDIMYAAVDSRNVELQPKYEDNLYMYLYFVIFIIFGSFFTLNLFIGVIIDNFNQQKKKFGGQDIFMTEEQKKYYNAMKKLGSKKPQKPIPRPANKFQGMVFDFVTKQVFDISIMILICLNMVTMMVETDDQSQEMTNILYWINLVFIVLFTGECVLKLISLRHYYFTIGWNIFDFVVVILSIVGMFLAELIEKYFVSPTLFRVIRLARIGRILRLIKGAKGIRTLLFALMMSLPALFNIGLLLFLVMFIYAIFGMSNFAYVKREVGIDDMFNFETFGNSMICLFQITTSAGWDGLLAPILNSGPPDCDPEKDHPGSSVKGDCGNPSVGIFFFVSYIIISFLVVVNMYIAVILENFSVATEESAEPLSEDDFEMFYEVWEKFDPDATQFIEFCKLSDFAAALDPPLLIAKPNKVQLIAMDLPMVSGDRIHCLDILFAFTKRVLGESGEMDALRIQMEERFMASNPSKVSYEPITTTLKRKQEEVSAIVIQRAYRRYLLKQKVKKVSSIYKKDKGKEDEGTPIKEDIITDKLNENSTPEKTDVTPSTTSPPSYDSVTKPEKEKFEKDKSEKEDKGKDIRESKK |
| 5321 | sp|O88457|SCNBA\_RAT | MEERYYPVIFPDERNFRPFTSDSLAAIEKRIAIQKERKKSKDKAAAEPQPRPQLDLKASRKLPKLYGDIPPELVAKPLEDLDPFYKDHKTFMVLNKKRTIYRFSAKRALFILGPFNPLRSLMIRISVHSVFSMFIICTVIINCMFMANSMERSFDNDIPEYVFIGIYILEAVIKILARGFIVDEFSFLRDPWNWLDFIVIGTAIATCFPGSQVNLSALRTFRVFRALKAISVISGLKVIVGALLRSVKKLVDVMVLTLFCLSIFALVGQQLFMGILNQKCIKHNCGPNPASNKDCFEKEKDSEDFIMCGTWLGSRPCPNGSTCDKTTLNPDNNYTKFDNFGWSFLAMFRVMTQDSWERLYRQILRTSGIYFVFFFVVVIFLGSFYLLNLTLAVVTMAYEEQNRNVAAETEAKEKMFQEAQQLLREEKEALVAMGIDRSSLNSLQASSFSPKKRKFFGSKTRKSFFMRGSKTAQASASDSEDDASKNPQLLEQTKRLSQNLPVDLFDEHVDPLHRQRALSAVSILTITMQEQEKFQEPCFPCGKNLASKYLVWDCSPQWLCIKKVLRTIMTDPFTELAITICIIINTVFLAVEHHNMDDNLKTILKIGNWVFTGIFIAEMCLKIIALDPYHYFRHGWNVFDSIVALLSLADVLYNTLSDNNRSFLASLRVLRVFKLAKSWPTLNTLIKIIGHSVGALGNLTVVLTIVVFIFSVVGMRLFGTKFNKTAYATQERPRRRWHMDNFYHSFLVVFRILCGEWIENMWGCMQDMDGSPLCIIVFVLIMVIGKLVVLNLFIALLLNSFSNEEKDGSLEGETRKTKVQLALDRFRRAFSFMLHALQSFCCKKCRRKNSPKPKETTESFAGENKDSILPDARPWKEYDTDMALYTGQAGAPLAPLAEVEDDVEYCGEGGALPTSQHSAGVQAGDLPPETKQLTSPDDQGVEMEVFSEEDLHLSIQSPRKKSDAVSMLSECSTIDLNDIFRNLQKTVSPKKQPDRCFPKGLSCHFLCHKTDKRKSPWVLWWNIRKTCYQIVKHSWFESFIIFVILLSSGALIFEDVNLPSRPQVEKLLRCTDNIFTFIFLLEMILKWVAFGFRRYFTSAWCWLDFLIVVVSVLSLMNLPSLKSFRTLRALRPLRALSQFEGMKVVVYALISAIPAILNVLLVCLIFWLVFCILGVNLFSGKFGRCINGTDINMYLDFTEVPNRSQCNISNYSWKVPQVNFDNVGNAYLALLQVATYKGWLEIMNAAVDSREKDEQPDFEANLYAYLYFVVFIIFGSFFTLNLFIGVIIDNFNQQQKKLGGQDIFMTEEQKKYYNAMKKLGTKKPQKPIPRPLNKCQAFVFDLVTSQVFDVIILGLIVLNMIIMMAESADQPKDVKKTFDILNIAFVVIFTIECLIKVFALRQHYFTNGWNLFDCVVVVLSIISTLVSRLEDSDISFPPTLFRVVRLARIGRILRLVRAARGIRTLLFALMMSLPSLFNIGLLLFLVMFIYAIFGMSWFSKVKKGSGIDDIFNFETFTGSMLCLFQITTSAGWDTLLNPMLEAKEHCNSSSQDSCQQPQIAVVYFVSYIIISFLIVVNMYIAVILENFNTATEESEDPLGEDDFEIFYEVWEKFDPEASQFIQYSALSDFADALPEPLRVAKPNKFQFLVMDLPMVMGDRLHCMDVLFAFTTRVLGDSSGLDTMKTMMEEKFMEANPFKKLYEPIVTTTKRKEEEQGAAVIQRAYRKHMEKMVKLRLKDRSSSSHQVFCNGDLSSLDVAKVKVHND |
| 5322 | sp|Q93YU5|SEC8\_ARATH | MGIFNGLPVPSDKTYLREELARIDESWAAARFDSLPHVVHILTSKDREADIHILKEQSDVVEEVVDEVVHAYHGGFNKAIQNYSQILRLFSESTEKIGDLKHDLAEAKQSLGARNKQLHQLWYRSVTLRHIISLLDQIEGIAKVPSRIEKLIADKQFYAAIQVYLQSSLMLEREGLQTVGALQDVRSELTKLRGALFFKILDDLHAHLYNRGEYSSVASSIYERDDEVPTTTAVAASRMSSQPLSRRTRTLKGDSQFGVRGLTNGSYRTASNDESSSFDGHDEEDSVEHDESTADTARNGTDSKLLSHQLPPWLSDSTPDEFIEAVRKSDDPLHVKYLQTLVQCLCMLGKVAAAGAIICQKLRPTIHEIIISKIKAHLETTNLSKSACSQGDRSVAAGLHLIKGQSEAYRLSKEKPQNGISNSGTHLAVSPVSPLMAPGGKAQAAAKELLDSILDTIVKIFENHVVIGELLEMKASQHDINTPRSLPTDVNWNTESEASQATGGYTISFPLTVLQSECQQLICEILRATPEAASADAAAQTAKLAKKAPKKDKRDAPEDGLTFTFRFTDATVSISNQGADLIRQGWGKRAPNASLEGYGSAAVLPEQGIYLAASIYRPVLQFTDKITSMLPKKHSQLVNDGLLTFTENFVKDHLLPTMFVDYRKGVQQAISSAAAFRPRAHTTTYTATVEKGRPILQGLLAIDLLAKEVLGWAQAMPKFATDLVKYVQTFLERTFERCRTSYMEAVLEKLSYMLIGRHDIEKLMRLDAASACLPSTLGHAVSHSEAVGTEVELSDLFLSLRPIKQDNLIRDDNKLILLASLSDSLEYVADSIERLGQAVPRVASQAEGNSRNQAASPRNLASFADEYRKLATDCLKVLRVEMQLETVFHLQEMTNREYLEDEDAEEPDDFVISLTSQITRREEGMAPFISGEKRNYVFGGISGIAANASIKALADMRSINLFGVQQICRNTIAVEQAMAAIPYIDGETVQQNLDRVRTYFELLNMPFEALLAFIAEHDQMFTPTEYSNLLKVNVPGRDTPSDAQSRLLEILSH |
| 5323 | sp|Q08826|SNX3\_YEAST | MPREFKSFGSTEKSLLSKGHGEPSYSEIYAEPENFLEIEVHNPKTHIPNGMDSKGMFTDYEIICRTNLPSFHKRVSKVRRRYSDFEFFRKCLIKEISMLNHPKVMVPHLPGKILLSNRFSNEVIEERRQGLNTWMQSVAGHPLLQSGSKVLVRFIEAEKFVG |
| 5324 | sp|Q09488|SMA6\_CAEEL | MNITFIFILIFGFFNTQKCSKDYDHFDDEDLALSIPKNAIGVPKEFRQQVLKEMKLRNRPNDILKNRCYCNYDQSICGNNMTCVKQDGAACYHAVEEVYNKAEKRMETLHKWGCATLERGSGASHLTCNSWRAAHHSPKSIGCCYEGNYCNKNLIPPAYVHHHKEKALQEKTDNPEDYDSPLENMTRGGKMFIMVFATVMSVFAVIGCIYLCITRAEEKSKARARAKTVSLKTESTYMESKSMLEDSGSGSGQAALIQRTVRQDLTIIKTIGQGRYGEVRKALYRGSYVAVKTFYTTDEDSWKNERDVYQTNMINHENILQFVAADIWSEEDSMTKMLLITDYHELGSLSDYLCREETLTTDEALRLIHSCICGIEHLHAAVHGTGSFRKPEIAHRDIKSKNIIVKRPNVCCIADLGLALRYQNDKILPEKFNVQVGTKRYMAPELISNKLNPKDFSQFKMADIYSMALVMWEVAIRVEVNTCEEVLTVDETSPDHSASSGIGESVSSSGNISRMHLQKTNVEGHSTSLKAKQHVPPFDGIVHNDPNFDEMNDVICVRRIRPPPDLAWKNVPALNELSKLMEDSWHSIPHFRHSALKLKKEMAELIKNPDRQNQSQRKVEFQQQDSGLVESATNQS |
| 5325 | sp|P38863|SPC97\_YEAST | MEIKEVDDRAELLRYTNNIPLLGKLVNHQPLWSTNPKLKSFSLEKISAPDQRRVQEALVVKDLLNVLIGLEGTYIRYFNDYEPSDPETPIEFKIAKKMDPSFKTFSRRIVRYGKQYMILTRAYEKWSDTSFGMVLQRFAYEIRRFLEDVYLKTLVERLERDFNKVPNFSIRELEQIINETEVNKQMELLYNIYEEIFREIEERRTNQSSQEDFNNFMDSMKNESSLHLRLMVAFDTTVYPVPKGGAILKIFQQKILENLGDRSSVMFLKKLLNNISQDYCTMLYEWLTQGILNDPYQEFMTYDDLEGKTDNIFDTRDRAWDTQYFIRKDVLLRDCDSEEDKNLLFKMLRTGILLKVVRASLQIPTIPSNSSDITIQEINDFADLMEGSNLELYVDKCYSRANEIFLKLFFQGYDLINVLKHLQQIFLGYQSGHNVLKFLTKNMGELTKHYRNDNNANYDKLLQNFELERQSENPNNLMRQLLMIQFDTETLPQVLSHYLQIYPEVPENNSANDDSDPLMHANNFKNMNAILFDELSKERTGAYHGSNLELYTPKSAIYHLKFDINIPYPLNIIISRTCMIKYQIILRYQLVLQYHSRLLDETWMDLNKTPSWKYRGYSHTVKRRIVRATRVLHAKMNHFIKTIMEYFNQNVIDKEVYSLEKCYRNPTLAVAIQNELEGGLTNIMTNRCLSDLIPLQLQIFDIVYKFCKFIKSMRAKLCQLDPVLYEKHKSGMMKTLNEGYRTNNGGQEDVGYQEDAALELIQKLIEYISNASSIFRKCLINFTQELSTEKFDFYDSSSVDAAGIERVLYSIVPPRSASASSQR |
| 5326 | sp|Q8IY81|SPB1\_HUMAN | MGKKGKVGKSRRDKFYHLAKETGYRSRSAFKLIQLNRRFQFLQKARALLDLCAAPGGWLQVAAKFMPVSSLIVGVDLVPIKPLPNVVTLQQDITTERCRQALRKELKTWKVDVVLNDGAPNVGASWVHDAYSQAHLTLMALRLACDFLARGGSFITKVFRSRDYQPLLWIFQQLFRRVQATKPQASRHESAEIFVVCQGFLAPDKVDSKFFDPKFAFKEVEVQAKTVTELVTKKKPKAEGYAEGDLTLYHRTSVTDFLRAANPVDFLSKASEIMVDDEELAQHPATTEDIRVCCQDIRVLGRKELRSLLNWRTKLRRYVAKKLKEQAKALDISLSSGEEDEGDEEDSTAGTTKQPSKEEEEEEEEEQLNQTLAEMKAQEVAELKRKKKKLLREQRKQRERVELKMDLPGVSIADEGETGMFSLSTIRGHQLLEEVTQGDMSAADTFLSDLPRDDIYVSDVEDDGDDTSLDSDLDPEELAGVRGHQGLRDQKRMRLTEVQDDKEEEEEENPLLVPLEEKAVLQEEQANLWFSKGSFAGIEDDADEALEISQAQLLFENRRKGRQQQQKQQLPQTPPSCLKTEIMSPLYQDEAPKGTEASSGTEAATGLEGEEKDGISDSDSSTSSEEEESWEPLRGKKRSRGPKSDDDGFEIVPIEDPAKHRILDPEGLALGAVIASSKKAKRDLIDNSFNRYTFNEDEGELPEWFVQEEKQHRIRQLPVGKKEVEHYRKRWREINARPIKKVAEAKARKKRRMLKRLEQTRKKAEAVVNTVDISEREKVAQLRSLYKKAGLGKEKRHVTYVVAKKGVGRKVRRPAGVRGHFKVVDSRMKKDQRAQQRKEQKKKHKRK |
| 5327 | sp|P00448|SODM\_ECOLI | MSYTLPSLPYAYDALEPHFDKQTMEIHHTKHHQTYVNNANAALESLPEFANLPVEELITKLDQLPADKKTVLRNNAGGHANHSLFWKGLKKGTTLQGDLKAAIERDFGSVDNFKAEFEKAAASRFGSGWAWLVLKGDKLAVVSTANQDSPLMGEAISGASGFPIMGLDVWEHAYYLKFQNRRPDYIKEFWNVVNWDEAAARFAAKK |
| 5328 | sp|Q6P926|SPA24\_MOUSE | MATPLGWSQGGSGSVCLAFDQLRDVIESQEELIHQLRNVMVLQDENFVSKEEFHEIEKKLVEEKAAHAKTKALLAKEEEKLQFALGEVEVLSKQLEKEKMAFEKALSSVKSRVLQESSKKDQLITKCNEIESHIIKQEDILNGKENEIKELQQVISQQKQNFRNHISDFRIQKQQETYMAQVLDQKRKKATGMRRARSRQCSREK |
| 5329 | sp|Q965H3|SOP2\_CAEEL | MSSNLTSNEMSSTSAIVEPPEAVKGNERDKSTRRSTSQVVRPEKHEVENALEDQCSSSSLPKEAQYYAKLDKKLEGKDPRSQFYEAVRLSADIFAHKFEKAVCSRQTFEPTNSIIKVLNTAEEEMLHEKVVPLPVSSKLQYYLNRGRYDTIFDRDEQLQRTADPMADEPDHVEKRVTSILEQASREMEEGEVEPVFYDGSDEDQELPIDLGAMRNLQRTNKFAARSSRMAARRGGRPGYRGAFRGAARGAPSRRPAPAAEVAPETPVAAPMAPAAPAAPATPEAAPAAEVMDTSIATEMPQESAVDLSNVSAATEMDTSKEGEASRPTSEKKKKIRTTEMDRLMSMDLGPKDGGRVGELGHMWPESRRRPAAPLPETPAAQPRKSLPRRAAEKKKPEDSDAAEEQEVEMEVDNDASTSTPRNARGGRGGGNRRGSRRGQKRTSGGSGKLVEPKKEPVDEPAEKIPKRSEAAPEVPATATTKEAPPSTSSSPPDAPATPATPASSDSRDSPRKIRAMIFSLTGSPPESETPPVLQQEQVISTAAPTAGRHPNIIQQVPHINRIPPQPLRRLTAPQAPPASQPEEPPVQQTVPVVKVELASAPAPIVRDPQSTEPVPPAMPTLVENNHEATLILPPNKTSDYTRWNAQDLINWVRLLITNNVDSTIAIMVREEFDGETLACLVLDDDFRKEVPIPYGHYKKMKIYGTEVLNHYRTEKYQADLRKFHEELAAWKAQQR |
| 5330 | sp|P11484|SSB1\_YEAST | MAEGVFQGAIGIDLGTTYSCVATYESSVEIIANEQGNRVTPSFVAFTPEERLIGDAAKNQAALNPRNTVFDAKRLIGRRFDDESVQKDMKTWPFKVIDVDGNPVIEVQYLEETKTFSPQEISAMVLTKMKEIAEAKIGKKVEKAVITVPAYFNDAQRQATKDAGAISGLNVLRIINEPTAAAIAYGLGAGKSEKERHVLIFDLGGGTFDVSLLHIAGGVYTVKSTSGNTHLGGQDFDTNLLEHFKAEFKKKTGLDISDDARALRRLRTAAERAKRTLSSVTQTTVEVDSLFDGEDFESSLTRARFEDLNAALFKSTLEPVEQVLKDAKISKSQIDEVVLVGGSTRIPKVQKLLSDFFDGKQLEKSINPDEAVAYGAAVQGAILTGQSTSDETKDLLLLDVAPLSLGVGMQGDMFGIVVPRNTTVPTIKRRTFTTCADNQTTVQFPVYQGERVNCKENTLLGEFDLKNIPMMPAGEPVLEAIFEVDANGILKVTAVEKSTGKSSNITISNAVGRLSSEEIEKMVNQAEEFKAADEAFAKKHEARQRLESYVASIEQTVTDPVLSSKLKRGSKSKIEAALSDALAALQIEDPSADELRKAEVGLKRVVTKAMSSR |
| 5331 | sp|Q8WVK7|SKA2\_HUMAN | MEAEVDKLELMFQKAESDLDYIQYRLEYEIKTNHPDSASEKNPVTLLKELSVIKSRYQTLYARFKPVAVEQKESKSRICATVKKTMNMIQKLQKQTDLELSPLTKEEKTAAEQFKFHMPDL |
| 5332 | sp|O15020|SPTN2\_HUMAN | MSSTLSPTDFDSLEIQGQYSDINNRWDLPDSDWDNDSSSARLFERSRIKALADEREAVQKKTFTKWVNSHLARVTCRVGDLYSDLRDGRNLLRLLEVLSGEILPKPTKGRMRIHCLENVDKALQFLKEQKVHLENMGSHDIVDGNHRLTLGLVWTIILRFQIQDISVETEDNKEKKSAKDALLLWCQMKTAGYPNVNVHNFTTSWRDGLAFNAIVHKHRPDLLDFESLKKCNAHYNLQNAFNLAEKELGLTKLLDPEDVNVDQPDEKSIITYVATYYHYFSKMKALAVEGKRIGKVLDHAMEAERLVEKYESLASELLQWIEQTIVTLNDRQLANSLSGVQNQLQSFNSYRTVEKPPKFTEKGNLEVLLFTIQSKLRANNQKVYTPREGRLISDINKAWERLEKAEHERELALRTELIRQEKLEQLAARFDRKAAMRETWLSENQRLVSQDNFGLELAAVEAAVRKHEAIETDIVAYSGRVQAVDAVAAELAAERYHDIKRIAARQHNVARLWDFLRQMVAARRERLLLNLELQKVFQDLLYLMDWMEEMKGRLQSQDLGRHLAGVEDLLQLHELVEADIAVQAERVRAVSASALRFCNPGKEYRPCDPQLVSERVAKLEQSYEALCELAAARRARLEESRRLWRFLWEVGEAEAWVREQQHLLASADTGRDLTGALRLLNKHTALRGEMSGRLGPLKLTLEQGQQLVAEGHPGASQASARAAELQAQWERLEALAEERAQRLAQAASLYQFQADANDMEAWLVDALRLVSSPELGHDEFSTQALARQHRALEEEIRSHRPTLDALREQAAALPPTLSRTPEVQSRVPTLERHYEELQARAGERARALEAALALYTMLSEAGACGLWVEEKEQWLNGLALPERLEDLEVVQQRFETLEPEMNTLAAQITAVNDIAEQLLKANPPGKDRIVNTQEQLNHRWQQFRRLADGKKAALTSALSIQNYHLECTETQAWMREKTKVIESTQGLGNDLAGVLALQRKLAGTERDLEAIAARVGELTREANALAAGHPAQAVAINARLREVQTGWEDLRATMRRREESLGEARRLQDFLRSLDDFQAWLGRTQTAVASEEGPATLPEAEALLAQHAALRGEVERAQSEYSRLRALGEEVTRDQADPQCLFLRQRLEALGTGWEELGRMWESRQGRLAQAHGFQGFLRDARQAEGVLSSQEYVLSHTEMPGTLQAADAAIKKLEDFMSTMDANGERIHGLLEAGRQLVSEGNIHADKIREKADSIERRHKKNQDAAQQFLGRLRDNREQQHFLQDCHELKLWIDEKMLTAQDVSYDEARNLHTKWQKHQAFMAELAANKDWLDKVDKEGRELTLEKPELKALVSEKLRDLHRRWDELETTTQAKARSLFDANRAELFAQSCCALESWLESLQAQLHSDDYGKDLTSVNILLKKQQMLEWEMAVREKEVEAIQAQAKALAQEDQGAGEVERTSRAVEEKFRALCQPMRERCRRLQASREQHQFHRDVEDEILWVTERLPMASSMEHGKDLPSVQLLMKKNQTLQKEIQGHEPRIADLRERQRALGAAAAGPELAELQEMWKRLGHELELRGKRLEDALRAQQFYRDAAEAEAWMGEQELHMMGQEKAKDELSAQAEVKKHQVLEQALADYAQTIHQLAASSQDMIDHEHPESTRISIRQAQVDKLYAGLKELAGERRERLQEHLRLCQLRRELDDLEQWIQEREVVAASHELGQDYEHVTMLRDKFREFSRDTSTIGQERVDSANALANGLIAGGHAARATVAEWKDSLNEAWADLLELLDTRGQVLAAAYELQRFLHGARQALARVQHKQQQLPDGTGRDLNAAEALQRRHCAYEHDIQALSPQVQQVQDDGHRLQKAYAGDKAEEIGRHMQAVAEAWAQLQGSSAARRQLLLDTTDKFRFFKAVRELMLWMDEVNLQMDAQERPRDVSSADLVIKNQQGIKAEIEARADRFSSCIDMGKELLARSHYAAEEISEKLSQLQARRQETAEKWQEKMDWLQLVLEVLVFGRDAGMAEAWLCSQEPLVRSAELGCTVDEVESLIKRHEAFQKSAVAWEERFCALEKLTALEEREKERKRKREEEERRKQPPAPEPTASVPPGDLVGGQTASDTTWDGTQPRPPPSTQAPSVNGVCTDGEPSQPLLGQQRLEHSSFPEGPGPGSGDEANGPRGERQTRTRGPAPSAMPQSRSTESAHAATLPPRGPEPSAQEQMEGMLCRKQEMEAFGKKAANRSWQNVYCVLRRGSLGFYKDAKAASAGVPYHGEVPVSLARAQGSVAFDYRKRKHVFKLGLQDGKEYLFQAKDEAEMSSWLRVVNAAIATASSASGEPEEPVVPSTTRGMTRAMTMPPVSPVGAEGPVVLRSKDGREREREKRFSFFKKNK |
| 5333 | sp|O19011|TGFB1\_HORSE | MPPSGLRLLPLLLPLLWLLVLTPGRPAAGLSTCKTIDMELVKRKRIEAIRGQILSKLRLASPPSQGEVPPGPLPEAVLALYNSTRAQVAGESAETEPEPEADYYAKEVTRVLMVEKENEIYKTVETGSHSIYMFFNTSELRAAVPDPMLLSRAELRLLRLKLSVEQHVELYQKYSNNSWRYLSNRLLTPSDSPEWLSFDVTGVVRQWLSQGGAMEGFRLSAHCSCDSKDNTLRVGINGFSSSRRGDLATIDGMNRPFLLLMATPLERAQQLHSSRHRRALDTNYCFSSTEKNCCVRQLYIDFRKDLGWKWIHEPKGYHANFCLGPCPYIWSLDTQYSKVLALYNQHNPGASAAPCCVPQVLEPLPIVYYVGRKPKVEQLSNMIVRSCKCS |
| 5334 | sp|P06767|TKN1\_RAT | MKILVAVAVFFLVSTQLFAEEIGANDDLNYWSDWSDSDQIKEAMPEPFEHLLQRIARRPKPQQFFGLMGKRDADSSIEKQVALLKALYGHGQISHKRHKTDSFVGLMGKRALNSVAYERSAMQNYERRRK |
| 5335 | sp|Q71BG9|TM22\_SOLLC | MAEILLTSVINKSVEIAGNLLIQEGKRLYWLKEDIDWLQREMRHIRSYVDNAKAKEAGGDSRVKNLLKDIQELAGDVEDLLDDFLPKIQQSNKFNYCLKRSSFADEFAMEIEKIKRRVVDIDRIRKTYNIIDTDNNNDDCVLLDRRRLFLHADETEIIGLDDDFNMLQAKLLNQDLHYGVVSIVGMPGLGKTTLAKKLYRLIRDQFECSGLVYVSQQPRASEILLDIAKQIGLTEQKMKENLEDNLRSLLKIKRYVILLDDIWDVEIWDDLKLVLPECDSKVGSRMIITSRNSNVGRYIGGESSLHALQPLESEKSFELFTKKIFNFDDNNSWANASPDLVNIGRNIVGRCGGIPLAIVVTAGMLRARERTEHAWNRVLESMGHKVQDGCAKVLALSYNDLPIASRPCFLYFGLYPEDHEIRAFDLINMWIAEKFIVVNSGNRREAEDLAEDVLNDLVSRNLIQLAKRTYNGRISSCRIHDLLHSLCVDLAKESNFFHTAHDAFGDPGNVARLRRITFYSDNVMIEFFRSNPKLEKLRVLFCFAKDPSIFSHMAYFDFKLLHTLVVVMSQSFQAYVTIPSKFGNMTCLRYLRLEGNICGKLPNSIVKLTRLETIDIDRRSLIQPPSGVWESKHLRHLCYRDYGQACNSCFSISSFYPNIYSLHPNNLQTLMWIPDKFFEPRLLHRLINLRKLGILGVSNSTVKMLSIFSPVLKALEVLKLSFSSDPSEQIKLSSYPHIAKLHLNVNRTMALNSQSFPPNLIKLTLAYFSVDRYILAVLKTFPKLRKLKMFICKYNEEKMDLSGEANGYSFPQLEVLHIHSPNGLSEVTCTDDVSMPKLKKLLLTGFHCRISLSERLKKLSK |
| 5336 | sp|Q96RJ3|TR13C\_HUMAN | MRRGPRSLRGRDAPAPTPCVPAECFDLLVRHCVACGLLRTPRPKPAGASSPAPRTALQPQESVGAGAGEAALPLPGLLFGAPALLGLALVLALVLVGLVSWRRRQRRLRGASSAEAPDGDKDAPEPLDKVIILSPGISDATAPAWPPPGEDPGTTPPGHSVPVPATELGSTELVTTKTAGPEQQ |
| 5337 | sp|P19438|TNR1A\_HUMAN | MGLSTVPDLLLPLVLLELLVGIYPSGVIGLVPHLGDREKRDSVCPQGKYIHPQNNSICCTKCHKGTYLYNDCPGPGQDTDCRECESGSFTASENHLRHCLSCSKCRKEMGQVEISSCTVDRDTVCGCRKNQYRHYWSENLFQCFNCSLCLNGTVHLSCQEKQNTVCTCHAGFFLRENECVSCSNCKKSLECTKLCLPQIENVKGTEDSGTTVLLPLVIFFGLCLLSLLFIGLMYRYQRWKSKLYSIVCGKSTPEKEGELEGTTTKPLAPNPSFSPTPGFTPTLGFSPVPSSTFTSSSTYTPGDCPNFAAPRREVAPPYQGADPILATALASDPIPNPLQKWEDSAHKPQSLDTDDPATLYAVVENVPPLRWKEFVRRLGLSDHEIDRLELQNGRCLREAQYSMLATWRRRTPRREATLELLGRVLRDMDLLGCLEDIEEALCGPAALPPAPSLLR |
| 5338 | sp|P18519|TNR16\_CHICK | MAGFVPLLLLLLPAGPTWGSKEKCLTKMYTTSGECCKACNLGEGVVQPCGVNQTVCEPCLDSVTYSDTVSATEPCKPCTQCVGLHSMSAPCVESDDAVCRCAYGYFQDELSGSCKECSICEVGFGLMFPCRDSQDTVCEECPEGTFSDEANFVDPCLPCTICEENEVMVKECTATSDAECRDLHPRWTTHTPSLAGSDSPEPITRDPFNTEGMATTLADIVTTVMGSSQPVVSRGTADNLIPVYCSILAAVVVGLVAYIAFKRWNSCKQNKQGANNRPVNQTPSPEGEKLHSDSGISVDSQSLHDQQPPNQSTQGPAPKGDGSLYASLPPSKQEEVEKLLSSSAEETWRQLAGELGYKEDLIDCFTREESPARALLADWSAKETATLDALLVALRKIQRGDIAESLYSESTATSPV |
| 5339 | sp|P0A858|TPIS\_ECOLI | MRHPLVMGNWKLNGSRHMVHELVSNLRKELAGVAGCAVAIAPPEMYIDMAKREAEGSHIMLGAQNVDLNLSGAFTGETSAAMLKDIGAQYIIIGHSERRTYHKESDELIAKKFAVLKEQGLTPVLCIGETEAENEAGKTEEVCARQIDAVLKTQGAAAFEGAVIAYEPVWAIGTGKSATPAQAQAVHKFIRDHIAKVDANIAEQVIIQYGGSVNASNAAELFAQPDIDGALVGGASLKADAFAVIVKAAEAAKQA |
| 5340 | sp|Q16890|TPD53\_HUMAN | MEAQAQGLLETEPLQGTDEDAVASADFSSMLSEEEKEELKAELVQLEDEITTLRQVLSAKERHLVEIKQKLGMNLMNELKQNFSKSWHDMQTTTAYKKTHETLSHAGQKATAAFSNVGTAISKKFGDMSYSIRHSISMPAMRNSPTFKSFEERVETTVTSLKTKVGGTNPNGGSFEEVLSSTAHASAQSLAGGSRRTKEEELQC |
| 5341 | sp|Q6PIZ9|TRAT1\_HUMAN | MSGISGCPFFLWGLLALLGLALVISLIFNISHYVEKQRQDKMYSYSSDHTRVDEYYIEDTPIYGNLDDMISEPMDENCYEQMKARPEKSVNKMQEATPSAQATNETQMCYASLDHSVKGKRRKPRKQNTHFSDKDGDEQLHAIDASVSKTTLVDSFSPESQAVEENIHDDPIRLFGLIRAKREPIN |
| 5342 | sp|Q9NSU2|TREX1\_HUMAN | MGSQALPPGPMQTLIFFDMEATGLPFSQPKVTELCLLAVHRCALESPPTSQGPPPTVPPPPRVVDKLSLCVAPGKACSPAASEITGLSTAVLAAHGRQCFDDNLANLLLAFLRRQPQPWCLVAHNGDRYDFPLLQAELAMLGLTSALDGAFCVDSITALKALERASSPSEHGPRKSYSLGSIYTRLYGQSPPDSHTAEGDVLALLSICQWRPQALLRWVDAHARPFGTIRPMYGVTASARTKPRPSAVTTTAHLATTRNTSPSLGESRGTKDLPPVKDPGALSREGLLAPLGLLAILTLAVATLYGLSLATPGE |
| 5343 | sp|P41516|TOP2A\_RAT | MELSPLQPVNENMLLNKKKNEDGKKRLSVERIYQKKTQLEHILLRPDTYIGSVELVTQQMWVYDEDVGINYREVTFVPGLYKIFDEILVNAADNKQRDPKMSCIRVTMMRNNLISIWNNGKGIPVVEHKVEKMYVPALIFGQLLTSSNYDDDEKKVTGGRNGYGAKLCNIFSTKFTVETASREYKKMFKQTWMDNMGRAGDMELKPFSGEDYTCITFQPDLSKFKMQSLDKDIVALMVRRAYDIAGSTKDVKVFLNGNRLPVKGFRSYVDMYLKDKVDETGNALKVVHEQVNPRWEVCLTMSEKGFQQISFVNSIATSKGGRHVDYVADQIVSKLVDVVKKKNKGGVAVKADQVKNHMWIFGNAVIENPTFDSQTKENMTLQAKSFGSTCQLSEKFIKAAIGCGIVESILNWVKFKAQIQLNKKCSAVKHNRIKGIPKLDDANDAGSRNSAECTLILTEGDSAKTLAVSGLGVVGRDKYGVFPLRGKILNVREASHKQIMENAEINNIIKIVGLQYKKNYEDEDSLKTLRYGKIMIMTDQDQDGSHIKGLLINFIHHNWPSLLRHRFLEEFITPIVKVSKNKQEIAFYSLPEFEEWKSTNPNHKKWKVKYYKGLGTSTSKEAKEYFANMKRHRIQFKYSGPEDDAAISLAFSKKQVDDRKEWLTNFMEDRRQRKLLGLPEDYLYGQTTMYLTYNDFINKELILFSNSDNERSIPSMVDGLKPGQRKVLFTCFKRNDKREVKVAQLAGSVAEMSSYHHGEMSLMMTIINLAQNFVGSNNLNLLQPIGQFGTRLHGGKDSASPRYIFTMLSPLARLLFPSKDDHTLRFLYDDNQRVEPEWYIPIIPMVLINGAEGIGTGWSCKIPNFDVREVVNNIRRLLDGEEPLPMLPSYKNYKGTIEELASNQYVINGEVAILNSTTIEITELPIRTWTQTYKEQVLEPMLNGTEKTPPLITDYREYHTDTTVKFVIKMTEEKLAEAERVGLHKVFKLQTSLTCNSMVLFDHVGCLKKYDTVLDILRDFFELRLKYYGLRKEWLLGMLGAESSKLNNQARFILEKIDGKIVIENKPKKELIKVLIQRGYDSDPVKAWKEAQQKVPEEEENEENEESESESTSPAAESGPTFNYLLDMPLWYLTKEKKDELCKQRDEKEQELNTLKKKTPSDLWKEDLAAFVEELEVVEAKEKQDEQVGLPGKGVKAKGKKAQISEVLPSPVGKRVIPQVTMEMRAEAEKKIRRKIKSENVEGTPAEDGAEPGLRQRLEKRQKREPGTRAKKQTTLPFKPIKKAQKQNPWSDSESDMSSNESNFDVPPREKEPRIAATKAKFTADLDSDDDFSGLDEKDEDEDFFPLDDTPPKTKMPPKNTKKALKPQKSSTSVDLESDGKDSVPASPGASAADVPAETEPSKPSSKQTVGVKRTITKGQSLTSTAGTKKRAVPKETKSDSALNAHVSKKPAPAKAKNSRKRMPSSSDSSDSEFEKAISKGATSKKLKGEERDFHVDLDDTVAPRAKSGRARKPIKYLEESDDDLF |
| 5344 | sp|Q91ZY8|TRIM9\_RAT | MEEMEEELKCPVCGSFYREPIILPCSHNLCQACARNILVQTPESESPQSRRASGSGVSDYDYLDLDKMSLYSEADSGYGSYGGFASAPTTPCQKSPNGVRVFPPAMPPPPTHLSPALAPVPRNSCITCPQCHRSLILDDRGLRGFPKNRVLEGVIDRYQQSKAAALKCQLCEKAPKEATVMCEQCDVFYCDPCRLRCHPPRGPLAKHRLVPPAQGRVSRRLSPRKVSTCTDHELENHSMYCVQCKMPVCYQCLEEGKHSSHEVKALGAMWKLHKSQLSQALNGLSDRAKEAKEFLVQLRTMVQQIQENSVEFEACLVAQCDALIDALNRRKAQLLARVNKEHEHKLKVVRDQISHCTVKLRQTTGLMEYCLEVIKENDPSGFLQISDALIRRVHLTEDQWGKGTLTPRMTTDFDLSLDNSPLLQSIHQLDFVQVKASSPVPATPILQLEECCTHNNSATLSWKQPPLSTVAADGYILELDDGSGGQFREVYVGKETMCTVDGLHFNSTYNARVKAFNKTGVSPYSKTLVLQTSEVAWFAFDPGSAHSDIIFSNDNLTVTCSSYDDRVVLGKTGFSKGVHYWELTIDRYDNHPDPAFGVARIDVMKDMMLGKDDKAWAMYVDNNRSWFMHNNSHTNRTEGGITKGATIGVLLDLNRKTLTFFVNNEQQGPIAFENVEGLFFPAVSLNRNVQVTLHTGLPVPDFYSSRASIA |
| 5345 | sp|Q9QXN3|TRIP4\_MOUSE | MAVAGAAYREPLVHWCTQQLQKTFALDVSEEIIQYVLSIENAEEIREYVTDLLQGNEGKKGQFIEDLITKWQKNDQEFISDSFQQCLRKDEILDGQRSVDQLKRSRRKGRNKQEVPAFPEPDVAVEVKTPLDLAKAQESNNSVKKKTRFVNLYTREGQDKLAVLLPGRHPCDCLGQKHKLINNCLVCGRIVCEQEGSGPCLFCGSLVCTNEEQDILQRDSNKSQKLLKKLMSGAETSGKVDVSTKDLLPHQESRMKSGLEKAIKHKEKLLEFDRTSIRRTQVIDDESDYFASDSNQWLSKVEREMLQKREEELRELRHASRLSKKVTIDFAGRKILEDENPLAEYHSRLDETIQAIASGTLNQSLVTLDRSCEEPLGVLVNPNMYQASPQWVDNTGSTPQKKTSLSAGPRLEPSLHQHQLRIQDQEFQEGFDGGWCLSMHQPWASLLVRGIKRVEGRSWYTPHRGRLWIAATGKRPSPQEVSELQATYRLLRGKDVEFPNDYPSGCLLGCVDLIDCLSQKQFQEQFPDISQESDSSFVFICKNPQEMVVKFPIKGNPKIWKLDSKIHQGAKKGLMKQNKAV |
| 5346 | sp|Q8R4P5|TMC1\_MOUSE | MLQIQVEEKEEDTEESSSEEEEDKLPRRESLRPKRKRTRDVINEDDPEPEPEDEETRKAREKERRRRLRRGAEEEEEIDEEELERLKALLDENRQMIATVKCKPWKMEKKIEVLKEAKKFVSENEGALGKGKGKKWFAFKMMMAKKWAKFLRDFENFKAACVPWENKIKAIESQFGSSVASYFLFLRWMYGVNMVLFVLTFSLIMLPEYLWGLPYGSLPRKTVPRAEEASAANFGVLYDFNGLAQYSVLFYGYYDNKRTIGWLNFRLPLSYFLVGIMCIGYSFLVVLKAMTKNIGDDGGGDDNTFNFSWKVFCSWDYLIGNPETADNKFNSITMNFKEAIIEERAAQVEENIHLIRFLRFLANFFVFLTLGASGYLIFWAVKRSQEFAQQDPDTLGWWEKNEMNMVMSLLGMFCPTLFDLFAELEDYHPLIALKWLLGRIFALLLGNLYVFILALMDEINNKIEEEKLVKANITLWEANMIKAYNESLSGLSGNTTGAPFFVHPADVPRGPCWETMVGQEFVRLTVSDVLTTYVTILIGDFLRACFVRFCNYCWCWDLEYGYPSYTEFDISGNVLALIFNQGMIWMGSFFAPSLPGINILRLHTSMYFQCWAVMCCNVPEARVFKASRSNNFYLGMLLLILFLSTMPVLYMIVSLPPSFDCGPFSGKNRMFEVIGETLEHDFPSWMAKILRQLSNPGLVIAVILVMVLTIYYLNATAKGQKAANLDLKKKMKQQALENKMRNKKMAAARAAAAAGGQ |
| 5347 | sp|Q9Y6I9|TX264\_HUMAN | MSDLLLLGLIGGLTLLLLLTLLAFAGYSGLLAGVEVSAGSPPIRNVTVAYKFHMGLYGETGRLFTESCSISPKLRSIAVYYDNPHMVPPDKCRCAVGSILSEGEESPSPELIDLYQKFGFKVFSFPAPSHVVTATFPYTTILSIWLATRRVHPALDTYIKERKLCAYPRLEIYQEDQIHFMCPLARQGDFYVPEMKETEWKWRGLVEAIDTQVDGTGADTMSDTSSVSLEVSPGSRETSAATLSPGASSRGWDDGDTRSEHSYSESGASGSSFEELDLEGEGPLGESRLDPGTEPLGTTKWLWEPTAPEKGKE |
| 5348 | sp|O60636|TSN2\_HUMAN | MGRFRGGLRCIKYLLLGFNLLFWLAGSAVIAFGLWFRFGGAIKELSSEDKSPEYFYVGLYVLVGAGALMMAVGFFGCCGAMRESQCVLGSFFTCLLVIFAAEVTTGVFAFIGKGVAIRHVQTMYEEAYNDYLKDRGKGNGTLITFHSTFQCCGKESSEQVQPTCPKELLGHKNCIDEIETIISVKLQLIGIVGIGIAGLTIFGMIFSMVLCCAIRNSRDVI |
| 5349 | sp|Q22495|TSP12\_CAEEL | MANRRQPVQHRAQQRVYRQSQIRYAPGAGGESEISCCVKYSVFSFNVIFFLLGFGLLLFGVWAQIEKNTFVNMLSKASKLYLDPTWPLLIVGFLTFIIGFSGCVGSLRENTSFLTFYSTLLGLLLIAEFSAGVFAYACRDQLDNYIRNLLNDVVVGYRDDPDLQLLIDSMQETWMCCGINGADDWDRNTYFSIEAREVASPEAGGVPFSCCINSSKLEFKNYFCGHGVRLKPESHMAAHLAAQRVMAHTASIYTEGCLPKLQLWLNNNMLLVAVSMVIIAIIQVLGICFAQNLKSDILAQRAKWYYTH |
| 5350 | sp|Q9Z0P5|TWF2\_MOUSE | MAHQTGIHATEELKEFFAKARAGSIRLIKVIIEDEQLVLGASQEPVGRWDQDYDRAVLPLLDAQEPCYLLFRLDSQNAQGFEWLFLAWSPDNSPVRLKMLYAATRATVKKEFGGGHIKDELFGTVKDDLSLAGYQKHLSSCAAPAPLTSAERELQQIRINEVKTEISVESKHQTLQGLAFPLQPEAQRALQQLKQKTVNYIQLKLDLERETIELVHTEPTNVAQLPSRIPRDAARYHFFLYKHTHEGDALESVVFIYSMPGYKCSIKERMLYSSCKSRLLDSVEQDFQLEIAKKIEIGDGAELTAEFLYDEVHPKQHAFKQAFAKPKGPGGKRGHKRLIRGPGENGEDS |
| 5351 | sp|Q9NZ09|UBAP1\_HUMAN | MASKKLGADFHGTFSYLDDVPFKTGDKFKTPAKVGLPIGFSLPDCLQVVREVQYDFSLEKKTIEWAEEIKKIEEAEREAECKIAEAEAKVNSKSGPEGDSKMSFSKTHSTATMPPPINPILASLQHNSILTPTRVSSSATKQKVLSPPHIKADFNLADFECEEDPFDNLELKTIDEKEELRNILVGTTGPIMAQLLDNNLPRGGSGSVLQDEEVLASLERATLDFKPLHKPNGFITLPQLGNCEKMSLSSKVSLPPIPAVSNIKSLSFPKLDSDDSNQKTAKLASTFHSTSCLRNGTFQNSLKPSTQSSASELNGHHTLGLSALNLDSGTEMPALTSSQMPSLSVLSVCTEESSPPNTGPTVTPPNFSVSQVPNMPSCPQAYSELQMLSPSERQCVETVVNMGYSYECVLRAMKKKGENIEQILDYLFAHGQLCEKGFDPLLVEEALEMHQCSEEKMMEFLQLMSKFKEMGFELKDIKEVLLLHNNDQDNALEDLMARAGAS |
| 5352 | sp|P21463|TSHR\_RAT | MRPGSLLQLTLLLALPRSLWGRGCTSPPCECHQEDDFRVTCKELHQIPSLPPSTQTLKLIETHLKTIPSLAFSSLPNISRIYLSIDATLQRLEPHSFYNLSKMTHIEIRNTRSLTYIDPDALTELPLLKFLGIFNTGLRIFPDLTKIYSTDVFFILEITDNPYMTSVPENAFQGLCNETLTLKLYNNGFTSIQGHAFNGTKLDAVYLNKNKYLTAIDKDAFGGVYSGPTLLDVSSTSVTALPSKGLEHLKELIAKNTWTLKKLPLSLSFLHLTRADLSYPSHCCAFKNQKKIRGILESLMCNESSIRNLRQRKSVNVMRGPVYQEYEEGLGDNHVGYKQNSKFQEGPSNSHYYVFFEEQEDEIIGFGQELKNPQEETLQAFDSHYDYTVCGDNEDMVCTPKSDEFNPCEDIMGYKFLRIVVWFVSPMALLGNVFVLFVLLTSHYKLTVPRFLMCNLAFADFCMGVYLLLIASVDLYTHTEYYNHAIDWQTGPGCNTAGFFTVFASELSVYTLTVITLERWYAITFAMRLDRKIRLRHAYTIMAGGWVSCFLLALLPMVGISSYAKVSICLPMDTDTPLALAYIALVLLLNVVAFVIVCSCYVKIYITVRNPQYNPRDKDTKIAKRMAVLIFTDFMCMAPISFYALSALMNKPLITVTNSGVLLVLFYPLNSCANPFLYAIFTKAFQRDVFILLSKFGLCKHQAQAYQAQRVCPNNNTGIQIQKIPQDTRQSLPNVQDTYEPLGSSHLTPKLQGRISEEYTQTAL |
| 5353 | sp|Q5BVD1|TTMP\_HUMAN | MDLAQPSQPVDELELSVLERQPEENTPLNGADKVFPSLDEEVPPAEANKESPWSSCNKNVVGRCKLWMIITSIFLGVITVIIIGLCLAAVTYVDEDENEILELSSNKTFFIMLKIPEECVAEEELPHLLTERLTDVYSTSPSLGRYFTSVEIVDFSGENATVTYDLQFGVPSDDENFMKYMMSEELVLGILLQDFRDQNIPGCESLGLDPTSLLLYE |
| 5354 | sp|Q8BWP5|TTPA\_MOUSE | MAEMRPGPLVGKQLNELPDHSPLLQPGLAELRRRVQEAGVPQTPQPLTDAFLLRFLRARDFDLDLAWRLMKNYYKWRAECPELSADLRPRSILGLLKAGYHGVLRSRDSTGSRVLIYRIAYWDPKVFTAYDVFRVSLITSELIVQEVETQRNGVKAIFDLEGWQVSHAFQITPSVAKKIAAVLTDSFPLKVRGIHLINEPVIFHAVFSMIKPFLTEKIKDRIHLHGNNYKSSMLQHFPDILPREYGGKEFSMEDICQEWTNFIMKSEDYLSSISETIQ |
| 5355 | sp|B2C4D0|TS23B\_MAIZE | MAADEARSVSRLHSEEDMHGKHHSTLWGDFFLHHVPCRPGQYLIMKDNVEIMKEEVKKMLLDVGSSDLSHKLDCIDTLERLGLDYHYTKEIDELMCNVFEARDQDLDLTTTSQLFYLLRKHGYHISSDVFLKFRDDKGDIVTNDARCLLRMYEAAHVRVNGEEILDNILIHTKRQLQCIVDDLEPTLQEEVRYALETPLFRRLNRVQARQFISTYEKSTTRINMLLEFSKLDFNILLTLYCEELKDLTLWWKEFQAQANTTIYARDRMVEMHFWMMGVFFEPQYSYSRKMLTQLFMIVSVLDDLYDSHCTTEEGNAFTAALQRWDEEGVEQCPTYLRTLYTNIRATIKAIEEDLNFQNNKHAKLVKGLIIDMAMCYNAETEWRDKKYVPATVDEHLKISARSSGCMHLVSQGFISMGDVATSEALEWASTYPKIVRAVCIIARLANDIMSYKREASNNTMVSTVQTCAKEYGTTTVEQAIEKIRELIEEAWMDITHECLRQPQPKALLERAVNLARTMDFLYKDADGYTDSRSIKGILDSLYVHLID |
| 5356 | sp|Q6IRE4|TS101\_RAT | MAVSESQLKKMMSKYKYRDLTVRQTVNVIAMYKDLKPVLDSYVFNDGSSRELVNLTGTIPVRYRGNIYNIPICLWLLDTYPYNPPICFVKPTSSMTIKTGKHVDANGKIYLPYLHDWKHPRSELLELIQIMIVIFGEEPPVFSRPTVSASYPPYTAAGPPNTSYLPSMPSGISAYPSGYPPNPSGYPGCPYPPAGPYPATTSSQYPSQPPVTTAGPSRDGTISEDTIRASLISAVSDKLRWRMKEEMDGAQAELNALKRTEEDLKKGHQKLEEMVTRLDQEVAEVDKNIELLKKKDEELSSALEKMENQSENNDIDEVIIPTAPLYKQILNLYAEENAIEDTIFYLGEALRRGVIDLDVFLKHVRLLSRKQFQLRALMQKARKTAGLSDLY |
| 5357 | sp|Q42403|TRXH3\_ARATH | MAAEGEVIACHTVEDWTEKLKAANESKKLIVIDFTATWCPPCRFIAPVFADLAKKHLDVVFFKVDVDELNTVAEEFKVQAMPTFIFMKEGEIKETVVGAAKEEIIANLEKHKTVVAAA |
| 5358 | sp|P04693|TYRB\_ECOLI | MFQKVDAYAGDPILTLMERFKEDPRSDKVNLSIGLYYNEDGIIPQLQAVAEAEARLNAQPHGASLYLPMEGLNCYRHAIAPLLFGADHPVLKQQRVATIQTLGGSGALKVGADFLKRYFPESGVWVSDPTWENHVAIFAGAGFEVSTYPWYDEATNGVRFNDLLATLKTLPARSIVLLHPCCHNPTGADLTNDQWDAVIEILKARELIPFLDIAYQGFGAGMEEDAYAIRAIASAGLPALVSNSFSKIFSLYGERVGGLSVMCEDAEAAGRVLGQLKATVRRNYSSPPNFGAQVVAAVLNDEALKASWLAEVEEMRTRILAMRQELVKVLSTEMPERNFDYLLNQRGMFSYTGLSAAQVDRLREEFGVYLIASGRMCVAGLNTANVQRVAKAFAAVM |
| 5359 | sp|Q8TBC4|UBA3\_HUMAN | MADGEEPEKKRRRIEELLAEKMAVDGGCGDTGDWEGRWNHVKKFLERSGPFTHPDFEPSTESLQFLLDTCKVLVIGAGGLGCELLKNLALSGFRQIHVIDMDTIDVSNLNRQFLFRPKDIGRPKAEVAAEFLNDRVPNCNVVPHFNKIQDFNDTFYRQFHIIVCGLDSIIARRWINGMLISLLNYEDGVLDPSSIVPLIDGGTEGFKGNARVILPGMTACIECTLELYPPQVNFPMCTIASMPRLPEHCIEYVRMLQWPKEQPFGEGVPLDGDDPEHIQWIFQKSLERASQYNIRGVTYRLTQGVVKRIIPAVASTNAVIAAVCATEVFKIATSAYIPLNNYLVFNDVDGLYTYTFEAERKENCPACSQLPQNIQFSPSAKLQEVLDYLTNSASLQMKSPAITATLEGKNRTLYLQSVTSIEERTRPNLSKTLKELGLVDGQELAVADVTTPQTVLFKLHFTS |
| 5360 | sp|E9PTA2|TRPM2\_RAT | MEPLDQRRTDSDQEEGFGVQSRRATDLGMVPNLRRSNSSLCKSRRLLCSFSSEKQENLSSWIPENIKKKECVYFVESSKLSDAGKVVCECGYTHEQHIEVAIKPHTFQGKEWDPKKHVHEMPTDAFGDIVFTGLSQKVGKYVRLSQDTSSIVIYQLMTQHWGLDVPSLLISVTGGAKNFNMKLRLKSIFRRGLVKVAQTTGAWIITGGSHTGVMKQVGEAVRDFSLSSSCKEGDVITIGIATWGTIHNREALIHPMGGFPAEYMLDEEGQGNLTCLDSNHSHFILVDDGTHGQYGVEIPLRTKLEKFISEQTKERGGVAIKIPIVCVVLEGGPGTLHTIYNAITNGTPCVIVEGSGRVADVIAQVAALPVSEITISLIQQKLSVFFQEMFETFTENQIVEWTKKIQDIVRRRQLLTVFREGKDGQQDVDVAILQALLKASRSQDHFGHENWDHQLKLAVAWNRVDIARSEIFTDEWQWKPSDLHPMMTAALISNKPEFVRLFLENGVRLKEFVTWDTLLCLYENLEPSCLFHSKLQKVLAEEHERLAYASETPRLQMHHVAQVLRELLGDSTQLLYPRPRYTDRPRLSLPMPHIKLNVQGVSLRSLYKRSTGHVTFTIDPVRDLLIWAIIQNHRELAGIIWAQSQDCTAAALACSKILKELSKEEEDTDSSEEMLALADEFEHRAIGVFTECYRKDEERAQKLLVRVSEAWGKTTCLQLALEAKDMKFVSHGGIQAFLTKVWWGQLCVDNGLWRIILCMLAFPLLFTGFISFREKRLQALCRLARVRAFFNAPVVIFYLNILSYFAFLCLFAYVLMVDFQPSPSWCEYLIYLWLFSLVCEETRQLFYDPDGCGLMKMASLYFSDFWNKLDVGAILLFIAGLTCRLIPATLYPGRIILSLDFIMFCLRLMHIFTISKTLGPKIIIVKRMMKDVFFFLFLLAVWVVSFGVAKQAILIHNESRVDWIFRGVIYHSYLTIFGQIPTYIDGVNFSMDQCSPNGTDPYKPKCPESDWTGQAPAFPEWLTVTLLCLYLLFANILLLNLLIAMFNYTFQEVQEHTDQIWKFQRHDLIEEYHGRPPAPPPLILLSHLQLLIKRIVLKIPAKRHKQLKNKLEKNEEAALLSWELYLKENYLQNQQYQHKQRPEQKIQDISEKVDTMVDLLDMDRVKRSGSTEQRLASLEEQVTQMGRSLHWIVTTLKDSGFGSGAGALTLAQRAFDEPDAELSIRKKGEEGGDGYHVSARHLLYPDARIMRFPVPNEKVPWEAEFLIYDPPFYTAEKKDATLTDPVGDTAEPLSKINYNVVDGLMDRCSFHGTYVVQYGFPLNPMGRTGLRGRGSLSWFGPNHTLQPVVTRWKRNQGGGICRKSVRKMLEVLVVKLPQSEHWALPGGSREPGKMLPRKLKQVLQQEYWVTFETLLRQGTEVYKGYVDDPRNTDNAWIETVAVSIHFQDQNDVELKRLEENLQTHDPKESARGLEMSTEWQVVDRRIPLYVNHKKILQKVASLFGAHF |
| 5361 | sp|Q5DID0|UROL1\_HUMAN | MLRTSGLALLALVSAVGPSQASGFTEKGLSLLGYQLCSHRVTHTVQKVEAVQTSYTSYVSCGGWIPWRRCPKMVYRTQYLVVEVPESRNVTDCCEGYEQLGLYCVLPLNQSGQFTSRPGACPAEGPEPSTSPCSLDIDCPGLEKCCPWSGGRYCMAPAPQAPERDPVGSWYNVTILVKMDFKELQQVDPRLLNHMRLLHSLVTSALQPMASTVHHLHSAPGNASTTVSRLLLGLPRPLPVADVSTLLGDIAKRVYEVISVQVQDVNECFYEELNACSGRELCANLEGSYWCVCHQEAPATSPRKLNLEWEDCPPVSDYVVLNVTSDSFQVSWRLNSTQNHTFHVRVYRGMELLRSARTQSQALAVAGLEAGVLYRVKTSYQGCGADVSTTLTIKTNAQVFEVTIKIVNHNLTEKLLNRSSVEYQDFSRQLLHEVESSFPPVVSDLYRSGKLRMQIVSLQAGSVVVRLKLTVQDPGFPMGISTLAPILQPLLASTVFQIDRQGTRVQDWDECVDSAEHDCSPAAWCINLEGSYTCQCRTTRDATPSRAGRACEGDLVSPMGGGLSAATGVTVPGLGTGTAALGLENFTLSPSPGYPQGTPAAGQAWTPEPSPRRGGSNVVGYDRNNTGKGVEQELQGNSIMEPPSWPSPTEDPTGHFLWHATRSTRETLLNPTWLRNEDSGPSGSVDLPLTSTLTALKTPACVPVSIGRIMVSNVTSTGFHLAWEADLAMDSTFQLTLTSMWSPAVVLETWNTSVTLSGLEPGVLHLVEIMAKACGKEGARAHLKVRTAARKLIGKVRIKNVRYSESFRNASSQEYRDFLELFFRMVRGSLPATMCQHMDAGGVRMEVVSVTNGSIVVEFHLLIIADVDVQEVSAAFLTAFQTVPLLEVIRGDTFIQDYDECERKEDDCVPGTSCRNTLGSFTCSCEGGAPDFPVEYSERPCEGDSPGNETWATSPERPLTTAGTKAAFVQGTSPTPQGLPQRLNLTGAVRVLCEIEKVVVAIQKRFLQQESIPESSLYLSHPSCNVSHSNGTHVLLEAGWSECGTLMQSNMTNTVVRTTLRNDLSQEGIIHHLKILSPIYCAFQNDLLTSSGFTLEWGVYTIIEDLHGAGNFVTEMQLFIGDSPIPQNYSVSASDDVRIEVGLYRQKSNLKVVLTECWATPSSNARDPITFSFINNSCPVPNTYTNVIENGNSNKAQFKLRIFSFINDSIVYLHCKLRVCMESPGATCKINCNNFRLLQNSETSATHQMSWGPLIRSEGEPPHAEAGLGAGYVVLIVVAIFVLVAGTATLLIVRYQRMNGRYNFKIQSNNFSYQVFYE |
| 5362 | sp|Q9NUQ7|UFSP2\_HUMAN | MVISESMDILFRIRGGLDLAFQLATPNEIFLKKALKHVLSDLSTKLSSNALVFRICHSSVYIWPSSDINTIPGELTDASACKNILRFIQFEPEEDIKRKFMRKKDKKLSDMHQIVNIDLMLEMSTSLAAVTPIIERESGGHHYVNMTLPVDAVISVAPEETWGKVRKLLVDAIHNQLTDMEKCILKYMKGTSIVVPEPLHFLLPGKKNLVTISYPSGIPDGQLQAYRKELHDLFNLPHDRPYFKRSNAYHFPDEPYKDGYIRNPHTYLNPPNMETGMIYVVQGIYGYHHYMQDRIDDNGWGCAYRSLQTICSWFKHQGYTERSIPTHREIQQALVDAGDKPATFVGSRQWIGSIEVQLVLNQLIGITSKILFVSQGSEIASQGRELANHFQSEGTPVMIGGGVLAHTILGVAWNEITGQIKFLILDPHYTGAEDLQVILEKGWCGWKGPDFWNKDAYYNLCLPQRPNMI |
| 5363 | sp|P30530|UFO\_HUMAN | MAWRCPRMGRVPLAWCLALCGWACMAPRGTQAEESPFVGNPGNITGARGLTGTLRCQLQVQGEPPEVHWLRDGQILELADSTQTQVPLGEDEQDDWIVVSQLRITSLQLSDTGQYQCLVFLGHQTFVSQPGYVGLEGLPYFLEEPEDRTVAANTPFNLSCQAQGPPEPVDLLWLQDAVPLATAPGHGPQRSLHVPGLNKTSSFSCEAHNAKGVTTSRTATITVLPQQPRNLHLVSRQPTELEVAWTPGLSGIYPLTHCTLQAVLSDDGMGIQAGEPDPPEEPLTSQASVPPHQLRLGSLHPHTPYHIRVACTSSQGPSSWTHWLPVETPEGVPLGPPENISATRNGSQAFVHWQEPRAPLQGTLLGYRLAYQGQDTPEVLMDIGLRQEVTLELQGDGSVSNLTVCVAAYTAAGDGPWSLPVPLEAWRPGQAQPVHQLVKEPSTPAFSWPWWYVLLGAVVAAACVLILALFLVHRRKKETRYGEVFEPTVERGELVVRYRVRKSYSRRTTEATLNSLGISEELKEKLRDVMVDRHKVALGKTLGEGEFGAVMEGQLNQDDSILKVAVKTMKIAICTRSELEDFLSEAVCMKEFDHPNVMRLIGVCFQGSERESFPAPVVILPFMKHGDLHSFLLYSRLGDQPVYLPTQMLVKFMADIASGMEYLSTKRFIHRDLAARNCMLNENMSVCVADFGLSKKIYNGDYYRQGRIAKMPVKWIAIESLADRVYTSKSDVWSFGVTMWEIATRGQTPYPGVENSEIYDYLRQGNRLKQPADCLDGLYALMSRCWELNPQDRPSFTELREDLENTLKALPPAQEPDEILYVNMDEGGGYPEPPGAAGGADPPTQPDPKDSCSCLTAAEVHPAGRYVLCPSTTPSPAQPADRGSPAAPGQEDGA |
| 5364 | sp|Q9BZM4|ULBP3\_HUMAN | MAAAASPAILPRLAILPYLLFDWSGTGRADAHSLWYNFTIIHLPRHGQQWCEVQSQVDQKNFLSYDCGSDKVLSMGHLEEQLYATDAWGKQLEMLREVGQRLRLELADTELEDFTPSGPLTLQVRMSCECEADGYIRGSWQFSFDGRKFLLFDSNNRKWTVVHAGARRMKEKWEKDSGLTTFFKMVSMRDCKSWLRDFLMHRKKRLEPTAPPTMAPGLAQPKAIATTLSPWSFLIILCFILPGI |
| 5365 | sp|Q96C45|ULK4\_HUMAN | MENFILYEEIGRGSKTVVYKGRRKGTINFVAILCTDKCKRPEITNWVRLTREIKHKNIVTFHEWYETSNHLWLVVELCTGGSLKTVIAQDENLPEDVVREFGIDLISGLHHLHKLGILFCDISPRKILLEGPGTLKFSNFCLAKVEGENLEEFFALVAAEEGGGDNGENVLKKSMKSRVKGSPVYTAPEVVRGADFSISSDLWSLGCLLYEMFSGKPPFFSESISELTEKILCEDPLPPIPKDSSRPKASSDFINLLDGLLQRDPQKRLTWTRLLQHSFWKKAFAGADQESSVEDLSLSRNTMECSGPQDSKELLQNSQSRQAKGHKSGQPLGHSFRLENPTEFRPKSTLEGQLNESMFLLSSRPTPRTSTAVEVSPGEDMTHCSPQKTSPLTKITSGHLSQQDLESQMRELIYTDSDLVVTPIIDNPKIMKQPPVKFDAKILHLPTYSVDKLLFLKDQDWNDFLQQVCSQIDSTEKSMGASRAKLNLLCYLCVVAGHQEVATRLLHSPLFQLLIQHLRIAPNWDIRAKVAHVIGLLASHTAELQENTPVVEAIVLLTELIRENFRNSKLKQCLLPTLGELIYLVATQEEKKKNPRECWAVPLAAYTVLMRCLREGEERVVNHMAAKIIENVCTTFSAQSQGFITGEIGPILWYLFRHSTADSLRITAVSALCRITRHSPTAFQNVIEKVGLNSVINSLASAICKVQQYMLTLFAAMLSCGIHLQRLIQEKGFVSTIIRLLDSPSTCIRAKAFLVLLYILIYNREMLLLSCQARLVMYIERDSRKTTPGKEQQSGNEYLSKCLDLLICHIVQELPRILGDILNSLANVSGRKHPSTVQVKQLKLCLPLMPVVLHLVTSQVFRPQVVTEEFLFSYGTILSHIKSVDSGETNIDGAIGLTASEEFIKITLSAFEAIIQYPILLKDYRSTVVDYILPPLVSLVQSQNVEWRLFSLRLLSETTSLLVNQEFGDGKEKASVDSDSNLLALIRDVLLPQYEHILLEPDPVPAYALKLLVAMTEHNPTFTRLVEESKLIPLIFEVTLEHQESILGNTMQSVIALLSNLVACKDSNMELLYEQGLVSHICNLLTETATLCLDVDNKNNNEMAAPLLFSLLDILHSMLTYTSGIVRLALQAQKSGSGEDPQAAEDLLLLNRPLTDLISLLIPLLPNEDPEIFDVSSKCLSILVQLYGGENPDSLSPENVEIFAHLLTSKEDPKEQKLLLRILRRMITSNEKHLESLKNAGSLLRALERLAPGSGSFADSAVAPLALEILQAVGH |
| 5366 | sp|Q9W148|URI\_DROME | MDRREDALLQALQTNASETERWEAFKRDNESTIRNLDKFAKNLSVEVMVPIGRKALMPGELIHTNELLVGHYEGYFSACSSHKAKEICQYRLKLAEEQLKKLAVENDLWQKKLHTPFAEGAVPSGDQVEIVEDFNEESHNKWLAEHRKRMRQQKQKERLEREAEPVKKDNEVLRKLEEREMMEELGLDPDNIDEDQLHDMLNQEPLKSTNESSPKSLTQEEEDELWKKLEAEEQNEADELSSEAEESLKTTDNLVRQLMSGETETPSSKKRTAGTNRNVEIQDPISEDDGDDDDEGDQEEEVRTIREQMSLLPNEDREPFLRAQLHVLKAKMRKIQKVNFISDELIHLMNVVVMLEDDLQDLVFEQELEASEEEEEVVENNHLPDEPSKELSTVSESSTNKRRISFALDDEKLEFRREETVAEMLPNAKKNSRDIIKLNAPLKPAGDPQPASIKTKRQTTQDILQKVERNIEFVKENQSVQDFDLLNRIMEESTGLINTLHISFTHSGAIPSPSSDQSDGIPGKPSDFYVRYEKDRARPNDSFPIYVNGFEGEEHVKVPIMSEAARGSAYEDPRSQFSKPNSSEICFTHSGSITPTSNDQSDDIPGNPFDFYEKYEKDRAKFSKSNSSEGDATDPESATKSILRNKSAVDLEPHNVNQQPKKGRKVRNQKKKERTLDDDLRDMSAYQKVMHDLVEKEPTAPEPLPPGKFIDSHAPKKRVSRFKEQRALNKT |
| 5367 | sp|P35503|UD13\_HUMAN | MATGLQVPLPWLATGLLLLLSVQPWAESGKVLVVPIDGSHWLSMREVLRELHARGHQAVVLTPEVNMHIKEENFFTLTTYAISWTQDEFDRHVLGHTQLYFETEHFLKKFFRSMAMLNNMSLVYHRSCVELLHNEALIRHLNATSFDVVLTDPVNLCAAVLAKYLSIPTVFFLRNIPCDLDFKGTQCPNPSSYIPRLLTTNSDHMTFMQRVKNMLYPLALSYICHAFSAPYASLASELFQREVSVVDILSHASVWLFRGDFVMDYPRPIMPNMVFIGGINCANRKPLSQEFEAYINASGEHGIVVFSLGSMVSEIPEKKAMAIADALGKIPQTVLWRYTGTRPSNLANNTILVKWLPQNDLLGHPMTRAFITHAGSHGVYESICNGVPMVMMPLFGDQMDNAKRMETKGAGVTLNVLEMTSEDLENALKAVINDKSYKENIMRLSSLHKDRPVEPLDLAVFWVEFVMRHKGAPHLRPAAHDLTWYQYHSLDVIGFLLAVVLTVAFITFKCCAYGYRKCLGKKGRVKKAHKSKTH |
| 5368 | sp|Q4KUS2|UN13A\_MOUSE | MSLLCVGVKKAKFDGAQEKFNTYVTLKVQNVKSTTIAVRGSQPSWEQDFMFEINRLDLGLTVEVWNKGLIWDTMVGTVWIPLRTIRQSNEEGPGEWLTLDSQAIMADSEICGTKDPTFHRILLDAHFELPLDIPEEEARYWAKKLEQLNAMRDQDEYSFQDQQDKPLPVPSSQCCNWNYFGWGEQNDDPDSAVDDRDSDYRSETSNSIPPPYYTTSQPNASVHQYSVRPPPLGSRESYSDSMHSYEEFSEPRALSPTGSSRYASSGELSQGSSQLSEDFDPDEHSLQGSELDDERDRDSYHSCHSSVSYHKDSPRWDQDDEDLEDLEDLEDEELPEEEEELEEEGEEELEEEDLEEEEEVPDDLASYTQQEDTTVAEPKEFKRISFPTAAPQKDDKVSAVPTEAPEVAKGIPKAATPEEKAAAERAQEAEPPKSEESFRSREEEEGQEGQDAMSRAKANWLRAFNKVRMQLQEARGEGDMSKSLWFKGGPGGGLIIIDSMPDIRKRKPIPLVSDLAMSLVQSRKAGITSALASSTLNNEELKNHVYKKTLQALIYPISCTTPHNFEVWTATTPTYCYECEGLLWGIARQGMRCTECGVKCHEKCQDLLNADCLQRAAEKSSKHGAEDRTQNIIMVLKDRMKIRERNKPEIFELIQEIFAVTKSAHTQQMKAVKQSVLDGTSKWSAKISITVVCAQGLQAKDKTGSSDPYVTVQVGKTKKRTKTIYGNLNPVWEENFHFECHNSSDRIKVRVWDEDDDIKSRVKQRFKRESDDFLGQTIIEVRTLSGEMDVWYNLDKRTDKSAVSGAIRLHISVEIKGEEKVAPYHVQYTCLHENLFHFVTDVQNNGVVKIPDAKGDDAWKVYYDETAQEIVDEFAMRYGVESIYQAMTHFACLSSKYMCPGVPAVMSTLLANINAYYAHTTASTNVSASDRFAASNFGKERFVKLLDQLHNSLRIDLSMYRNNFPASSPERLQDLKSTVDLLTSITFFRMKVQELQSPPRASQVVKDCVKACLNSTYEYIFNNCHELYGREYQTDPAKKGEVPPEEQGPSIKNLDFWSKLITLIVSIIEEDKNSYTPCLNQFPQELNVGKISAEVMWSLFAQDMKYAMEEHDKHRLCKSADYMNLHFKVKWLYNEYVAELPTFKDRVPEYPAWFEPFVIQWLDENEEVSRDFLHGALERDKKDGFQQTSEHALFSCSVVDVFSQLNQSFEIIKKLECPDPQIVGHYMRRFAKTISNVLLQYADIVSKDFASYCSKEKEKVPCILMNNTQQLRVQLEKMFEAMGGKELDAEASGTLKELQVKLNNVLDELSHVFATSFQPHIEECVRQMGDILSQVKGTGNVPASACSSVAQDADNVLQPIMDLLDSNLTLFAKICEKTVLKRVLKELWKLVMNTMEKTIVLPPLTDQTMIGTLLRKHGKGLEKGRVKLPSHSDGTQMIFNAAKELGQLSKLKDHMVREEAKSLTPKQCAVVELALDTIKQYFHAGGVGLKKTFLEKSPDLQSLRYALSLYTQATDLLIKTFVQTQSAQGSGVEDPVGEVSVHVELFTHPGTGEQKVTVKVVAANDLKWQTSGIFRPFIEVNIVGPQLSDKKRKFATKSKNNSWAPKYNESFQFSLSADAGPECYELQVCVKDYCFAREDRTVGLAVLQLRELAQRGSAACWLPLGRRIHMDDTGLTVLRILSQRSNDEVAKEFVKLKSDTRSAEEGGAAPAP |
| 5369 | sp|Q6PHR2|ULK3\_HUMAN | MAGPGWGPPRLDGFILTERLGSGTYATVYKAYAKKDTREVVAIKCVAKKSLNKASVENLLTEIEILKGIRHPHIVQLKDFQWDSDNIYLIMEFCAGGDLSRFIHTRRILPEKVARVFMQQLASALQFLHERNISHLDLKPQNILLSSLEKPHLKLADFGFAQHMSPWDEKHVLRGSPLYMAPEMVCQRQYDARVDLWSMGVILYEALFGQPPFASRSFSELEEKIRSNRVIELPLRPLLSRDCRDLLQRLLERDPSRRISFQDFFAHPWVDLEHMPSGESLGRATALVVQAVKKDQEGDSAAALSLYCKALDFFVPALHYEVDAQRKEAIKAKVGQYVSRAEELKAIVSSSNQALLRQGTSARDLLREMARDKPRLLAALEVASAAMAKEEAAGGEQDALDLYQHSLGELLLLLAAEPPGRRRELLHTEVQNLMARAEYLKEQVKMRESRWEADTLDKEGLSESVRSSCTLQ |
| 5370 | sp|P81615|UCN1\_MOUSE | MIQRGRATLLVALLLLAQLRPESSQWSPAAAAATGVQDPNLRWSPGVRNQGGGVRALLLLLAERFPRRAGSEPAGERQRRDDPPLSIDLTFHLLRTLLELARTQSQRERAEQNRIIFDSVGK |
| 5371 | sp|Q9NWZ5|UCKL1\_HUMAN | MAAPPARADADPSPTSPPTARDTPGRQAEKSETACEDRSNAESLDRLLPPVGTGRSPRKRTTSQCKSEPPLLRTSKRTIYTAGRPPWYNEHGTQSKEAFAIGLGGGSASGKTTVARMIIEALDVPWVVLLSMDSFYKVLTEQQQEQAAHNNFNFDHPDAFDFDLIISTLKKLKQGKSVKVPIYDFTTHSRKKDWKTLYGANVIIFEGIMAFADKTLLELLDMKIFVDTDSDIRLVRRLRRDISERGRDIEGVIKQYNKFVKPSFDQYIQPTMRLADIVVPRGSGNTVAIDLIVQHVHSQLEERELSVRAALASAHQCHPLPRTLSVLKSTPQVRGMHTIIRDKETSRDEFIFYSKRLMRLLIEHALSFLPFQDCVVQTPQGQDYAGKCYAGKQITGVSILRAGETMEPALRAVCKDVRIGTILIQTNQLTGEPELHYLRLPKDISDDHVILMDCTVSTGAAAMMAVRVLLDHDVPEDKIFLLSLLMAEMGVHSVAYAFPRVRIITTAVDKRVNDLFRIIPGIGNFGDRYFGTDAVPDGSDEEEVAYTG |
| 5372 | sp|P55851|UCP2\_HUMAN | MVGFKATDVPPTATVKFLGAGTAACIADLITFPLDTAKVRLQIQGESQGPVRATASAQYRGVMGTILTMVRTEGPRSLYNGLVAGLQRQMSFASVRIGLYDSVKQFYTKGSEHASIGSRLLAGSTTGALAVAVAQPTDVVKVRFQAQARAGGGRRYQSTVNAYKTIAREEGFRGLWKGTSPNVARNAIVNCAELVTYDLIKDALLKANLMTDDLPCHFTSAFGAGFCTTVIASPVDVVKTRYMNSALGQYSSAGHCALTMLQKEGPRAFYKGFMPSFLRLGSWNVVMFVTYEQLKRALMAACTSREAPF |
| 5373 | sp|Q96K76|UBP47\_HUMAN | MVPGEENQLVPKEDVFWRCRQNIFDEMKKKFLQIENAAEEPRVLCIIQDTTNSKTVNERITLNLPASTPVRKLFEDVANKVGYINGTFDLVWGNGINTADMAPLDHTSDKSLLDANFEPGKKNFLHLTDKDGEQPQILLEDSSAGEDSVHDRFIGPLPREGSGGSTSDYVSQSYSYSSILNKSETGYVGLVNQAMTCYLNSLLQTLFMTPEFRNALYKWEFEESEEDPVTSIPYQLQRLFVLLQTSKKRAIETTDVTRSFGWDSSEAWQQHDVQELCRVMFDALEQKWKQTEQADLINELYQGKLKDYVRCLECGYEGWRIDTYLDIPLVIRPYGSSQAFASVEEALHAFIQPEILDGPNQYFCERCKKKCDARKGLRFLHFPYLLTLQLKRFDFDYTTMHRIKLNDRMTFPEELDMSTFIDVEDEKSPQTESCTDSGAENEGSCHSDQMSNDFSNDDGVDEGICLETNSGTEKISKSGLEKNSLIYELFSVMVHSGSAAGGHYYACIKSFSDEQWYSFNDQHVSRITQEDIKKTHGGSSGSRGYYSSAFASSTNAYMLIYRLKDPARNAKFLEVDEYPEHIKNLVQKERELEEQEKRQREIERNTCKIKLFCLHPTKQVMMENKLEVHKDKTLKEAVEMAYKMMDLEEVIPLDCCRLVKYDEFHDYLERSYEGEEDTPMGLLLGGVKSTYMFDLLLETRKPDQVFQSYKPGEVMVKVHVVDLKAESVAAPITVRAYLNQTVTEFKQLISKAIHLPAETMRIVLERCYNDLRLLSVSSKTLKAEGFFRSNKVFVESSETLDYQMAFADSHLWKLLDRHANTIRLFVLLPEQSPVSYSKRTAYQKAGGDSGNVDDDCERVKGPVGSLKSVEAILEESTEKLKSLSLQQQQDGDNGDSSKSTETSDFENIESPLNERDSSASVDNRELEQHIQTSDPENFQSEERSDSDVNNDRSTSSVDSDILSSSHSSDTLCNADNAQIPLANGLDSHSITSSRRTKANEGKKETWDTAEEDSGTDSEYDESGKSRGEMQYMYFKAEPYAADEGSGEGHKWLMVHVDKRITLAAFKQHLEPFVGVLSSHFKVFRVYASNQEFESVRLNETLSSFSDDNKITIRLGRALKKGEYRVKVYQLLVNEQEPCKFLLDAVFAKGMTVRQSKEELIPQLREQCGLELSIDRFRLRKKTWKNPGTVFLDYHIYEEDINISSNWEVFLEVLDGVEKMKSMSQLAVLSRRWKPSEMKLDPFQEVVLESSSVDELREKLSEISGIPLDDIEFAKGRGTFPCDISVLDIHQDLDWNPKVSTLNVWPLYICDDGAVIFYRDKTEELMELTDEQRNELMKKESSRLQKTGHRVTYSPRKEKALKIYLDGAPNKDLTQD |
| 5374 | sp|Q8WT44|UBPH\_CAEEL | MGNTLTGRSNAIAPIISAEDAKTYISDEEYRRIRQAFQRFKNGCINYDEFCYHVLGGAQIPEEKRRLLFSFFSHGAETISFDNLLSSLVGLCRVEEVQSRFIEEYHEFASWGLSPPKLTIPLNDSYISFYEVMSYVTHLSVNEVIELEKVFATISDRAVCKLNEEKWKQALGGCFPDSYAERLFAVFDENRDGQIDFRELVCTLSALCRGPLPGRISQLARIWDVDCDKLLSDEELSNMYKDLNVPEEHQTVTKSSNGKSALVDFGIWAQENEKYVNEYYSMALQIGHICLGLRPESRKMELQIVNEFEKRASELPLSEWNIVASGWHAELRSFLEADKNPNPIDNSGIKGTREDSWTSKVACISAESARLKPDLIPSDYIRVPVPLWRAWLRWHGCALTVDSQFTRKYLDGEFFEDNKPALELYPLEILLLGHDRKKSQDGTENTPRSLTSWACAQVSRSMTVDELLALCKTELRLGDGDARLWQVVKENEEGNVLLDDGAQNLHQLYSSLGKTKKVNKMKLLLEVRERGTGVWPEELRASLSGKQITAASTLSSNAQLSDSSGRPGAVGLVNYGNFCYRNAGIQCLARVSPLTQYFLDEDNLDAIKRGNLRRGDAAETTIEYAKLLREMWAAKKKNIAPNDFNDAIRLSSDMFECSEQHDCQEFVAFLLDQLHTSMYESNKSLHPSPEESEGTDSNKLSDSSKKKEADKEEADEEKAERSWTEYEKQNESLVTQLFTGQLRSRLICRTCQSSSSVFEPFTSLSLPIGFEDVDLYQVIVVHRDGRIPRRYGFRLSRDSKVGNLREVVAVSSGISMSHLTIQCMSSKGTLMSRSPNHRSSNLRDELPLSSFPSGARLYALELPESTGEDQWRVAMHRKLQYNHEPYILGSTAGFIVSRFGLPLIVGLDEEVTGKKLYEDVMYQMHRFMEHSVNSSSSRAHDPCEDENSGYPFTLCLVDPNYEWCGQCPALRFCRGCPIRPDESKVFIPANCPIAVDWLPIALYLRYNHSQEQACEDDPSVAETWSRHFAPSSLEHCIEKFSCPETLDAAIQCDRCEKKTMRDKVMTIWKLPKYLIIHLKRFEFLREQGRMGKCKRTVNFPLKHFDPAPFVDKPDGNTYECIALANHYGQLSCGHFIAYAKSNEDKWLLLNDCSVREVSEEEVDKQGAYLLFYERKDVK |
| 5375 | sp|Q96QK1|VPS35\_HUMAN | MPTTQQSPQDEQEKLLDEAIQAVKVQSFQMKRCLDKNKLMDALKHASNMLGELRTSMLSPKSYYELYMAISDELHYLEVYLTDEFAKGRKVADLYELVQYAGNIIPRLYLLITVGVVYVKSFPQSRKDILKDLVEMCRGVQHPLRGLFLRNYLLQCTRNILPDEGEPTDEETTGDISDSMDFVLLNFAEMNKLWVRMQHQGHSRDREKRERERQELRILVGTNLVRLSQLEGVNVERYKQIVLTGILEQVVNCRDALAQEYLMECIIQVFPDEFHLQTLNPFLRACAELHQNVNVKNIIIALIDRLALFAHREDGPGIPADIKLFDIFSQQVATVIQSRQDMPSEDVVSLQVSLINLAMKCYPDRVDYVDKVLETTVEIFNKLNLEHIATSSAVSKELTRLLKIPVDTYNNILTVLKLKHFHPLFEYFDYESRKSMSCYVLSNVLDYNTEIVSQDQVDSIMNLVSTLIQDQPDQPVEDPDPEDFADEQSLVGRFIHLLRSEDPDQQYLILNTARKHFGAGGNQRIRFTLPPLVFAAYQLAFRYKENSKVDDKWEKKCQKIFSFAHQTISALIKAELAELPLRLFLQGALAAGEIGFENHETVAYEFMSQAFSLYEDEISDSKAQLAAITLIIGTFERMKCFSEENHEPLRTQCALAASKLLKKPDQGRAVSTCAHLFWSGRNTDKNGEELHGGKRVMECLKKALKIANQCMDPSLQVQLFIEILNRYIYFYEKENDAVTIQVLNQLIQKIREDLPNLESSEETEQINKHFHNTLEHLRLRRESPESEGPIYEGLIL |
| 5376 | sp|P25976|UBF1\_MOUSE | MNGEADCPTDLEMAAPKGQDRWSQEDMLTLLECMKNNLPSNDSSKFKTTESHMDWEKVAFKDFSGDMCKLKWVEISNEVRKFRTLTELILDAQEHVKNPYKGKKLKKHPDFPKKPLTPYFRFFMEKRAKYAKLHPEMSNLDLTKILSKKYKELPEKKKMKYIQDFQREKQEFERNLARFREDHPDLIQNAKKSDIPEKPKTPQQLWYTHEKKVYLKVRPDATTKEVKDSLGKQWSQLSDKKTLKWIHKALEQRKEYEEIMRDYIQKHPELNISEEGITKSTLTKAERQLKDKFDGRPTKPPPNSYSLYCAELMANMKDVPSTERMVLCSQQWKLLSQKEKDAYHKKCDQKKKDYEVELLRFLESLPEEEQQRVLGEEKMLNINKKQTTSPASKKPSQEGGKGGSEKPKRPVSAMFIFSEEKRRQLQEERPELSESELTRLLARMWNDLTEKKKAKYKAREAALKAQSERKPGGEREDRGKLPESPKRAEEIWQQSVIGDYLARFKNDRVKALKAMEMTWNNMEKKEKLMWIKKAAEDQKRYERELSEMRAPPAATNSSKKMKFQGEPKKPPMNGYQKFSQELLSNGELNHLPLKERMVEIGSRWQRISQSQKEHYKKLAEEQQRQYKVHLDLWVKSLSPQDRAAYKEYISNKRKNMTKLRGPNPKSSRTTLQSKSESEEDDDEEEEDDEEEEEEEEDDENGDSSEDGGDSSESSSEDESEDGDENDDDDDDEDDEDDDDEDEDNESEGSSSSSSSSGDSSDSGSN |
| 5377 | sp|Q8IQ27|UBP2\_DROME | MMLDIKKTRGFHKIPQASKLQSTTKTSSVVATSASSQNEVPSPGGSAGSKVGATNPVRAANQRFFLVSSYKDPTFLKAECDLAHAHVTTSKVKTTLQPHRRSRAGEDSRNNNYNTSRAPTLINMRRPSLFNGNQQPTTTNSTTINNTTSRNTTSNTSNGVLKYSVRSTTATATSTSTRNYGKLKPLNNNQTTAGVAMMNGHTNNNNNNTRNSSNINNGGNNNMQRQQQQHDDISFIDSDDPPATGGPEAGISTTKTSICYFKPITPPLQLRHEQNQVQQQEEQPQPSSSKSASHRYPRPKSTIIASAHSNFAASFEKFSGGLYRQTNGETNIESKTSSNARRYGIDSLSIKASIEKFNNLSGQKRQNPGSGSGIGPGSATASGLGGGRLSVASRSNHGSQAGGSSSNLQQRYSSDLDNIRVAAGYSSSLTRAAYRTTATMNSVSTPVAVTSELGGPISGDGGETATAMGQPTSKVTVRGAHSNRQPIECDSVVLTNKASKDATTAATPTVATATATHTPATSSVSTVTVTAAAPNSASDSTLARSGTGSSSTARSVLPPMTPTSSRYWDRDSGTSRSSIGTSSALNSSSLKHNSDDGYKTASSSRDEKSEGLCGLRNIGNTCFMNSVIQCLSHTQELTRFLRSHHGSRSLSTKDQQILHEFAKLIQEMWTANVHTVTPMELKRAFSTKHRMYSDYNQQDAQEFLRFFLDSLHSALNSGVKGETLNIDDNLSDNKKADLTWEWYTRHENSLVRDLFVGQLKSTLKCTTCGNTSVTFDPFWDLSVPLPSSSRCKLEACLDLFIREEVLDGDEMPTCAKCKTRRKCTKSFTIQRFPKYLVIHLKRFSETRWSKLSNIVEFPTSDSELNMGSYGANSNSNVHYSLYAISNHMGSTAGGHYVALCKHPVSRKWHEFNDNIVSDALSENHLVSSSAYILFYERT |
| 5378 | sp|P32319|VPS10\_YEAST | MILLHFVYSLWALLLIPLTNAEEFTPKVTKTIAQDSFDILSFDDSNTLIRKQDTSVTISFDDGETWEKVEGIEGEITWIYIDPFNRHDRAVATAMNGSYLYITNDQGKSWERITLPDSGESISPRECYIETHPLNKNYFLAKCNYCEKTEVNNDNEENSGDEEGQFEIFNITRCTDKVFASNDGGKSFSEIKSSLERNENSPISISDCGFAKTSKDSDLESSDTSIICLFQNMQLIMDEFSSPYTESKLVLTTDWGKSLKEFDQFKDKVVNGYRILKSHMVVLTQGDRYNDMSSMDVWVSNDLSNFKMAYMPTQLRHSMQGEIYEDAMGRIILPMSRERSDQEEDKGIVSEILISDSQGLKFSPIPWTANEVFGYINFYQPTYLKGTMIASLYPLSRRRNRKGKAKGVKSKGVTKISVDNGLTWTMLKVVDPDNADSFDCDITDFENCSLQNMFYTREGSTPTAGILMTTGIVGDGSVFDWGDQRTFISRDGGLTWKLAFDFPCLYAVGDYGNVIVAIPYNADEDDDPQSEFYYSLDQGKTWTEYQLETTIYPNEVMNTTPDGSGAKFILNGFTLAHMDGTTNFIYAIDFSTAFNDKTCEENDFEDWNLAEGKCVNGVKYKIRRRKQDAQCLVKKVFEDLQLFETACDKCTEADYECAFEFVRDATGKCVPDYNLIVLSDVCDKTKKKTVPVKPLQLVKGDKCKKPMTVKSVDISCEGVPKKGTNDKEIVVTENKFDFKIQFYQYFDTVTDESLLMINSRGEAYISHDGGQTIKRFDSNGETIIEVVFNPYYNSSAYLFGSKGSIFSTHDRGYSFMTAKLPEARQLGMPLDFNAKAQDTFIYYGGKNCESILSPECHAVAYLTNDGGETFTEMLDNAIHCEFAGSLFKYPSNEDMVMCQVKEKSSQTRSLVSSTDFFQDDKNTVFENIIGYLSTGGYIIVAVPHENNELRAYVTIDGTEFAEAKFPYDEDVGKQEAFTILESEKGSIFLHLATNLVPGRDFGNLLKSNSNGTSFVTLEHAVNRNTFGYVDFEKIQGLEGIILTNIVSNSDKVAENKEDKQLKTKITFNEGSDWNFLKPPKRDSEGKKFSCSSKSLDECSLHLHGYTERKDIRDTYSSGSALGMMFGVGNVGPNLLPYKECSTFFTTDGGETWAEVKKTPHQWEYGDHGGILVLVPENSETDSISYSTDFGKTWKDYKFCADKVLVKDITTVPRDSALRFLLFGEAADIGGSSFRTYTIDFRNIFERQCDFDITGKESADYKYSPLGSKSNCLFGHQTEFLRKTDENCFIGNIPLSEFSRNIKNCSCTRQDFECDYNFYKANDGTCKLVKGLSPANAADVCKKEPDLIEYFESSGYRKIPLSTCEGGLKLDAPSSPHACPGKEKEFKEKYSVSAGPFAFIFISILLIIFFAAWFVYDRGIRRNGGFARFGEIRLGDDGLIENNNTDRVVNNIVKSGFYVFSNIGSLLQHTKTNIAHAISKIRGRFGNRTGPSYSSLIHDQFLDEADDLLAGHDEDANDLSSFMDQGSNFEIEEDDVPTLEEEHTSYTDQPTTTDVPDTLPEGNEENIDRPDSTAPSNENQ |
| 5379 | sp|Q99990|VGLL1\_HUMAN | MEEMKKTAIRLPKGKQKPIKTEWNSRCVLFTYFQGDISSVVDEHFSRALSNIKSPQELTPSSQSEGVMLKNDDSMSPNQWRYSSPWTKPQPEVPVTNRAANCNLHVPGPMAVNQFSPSLARRASVRPGELWHFSSLAGTSSLEPGYSHPFPARHLVPEPQPDGKREPLLSLLQQDRCLARPQESAARENGNPGQIAGSTGLLFNLPPGSVHYKKLYVSRGSASTSLPNETLSELETPGKYSLTPPNHWGHPHRYLQHL |
| 5380 | sp|P27449|VATL\_HUMAN | MSESKSGPEYASFFAVMGASAAMVFSALGAAYGTAKSGTGIAAMSVMRPEQIMKSIIPVVMAGIIAIYGLVVAVLIANSLNDDISLYKSFLQLGAGLSVGLSGLAAGFAIGIVGDAGVRGTAQQPRLFVGMILILIFAEVLGLYGLIVALILSTK |
| 5381 | sp|Q9UKW4|VAV3\_HUMAN | MEPWKQCAQWLIHCKVLPTNHRVTWDSAQVFDLAQTLRDGVLLCQLLNNLRAHSINLKEINLRPQMSQFLCLKNIRTFLTACCETFGMRKSELFEAFDLFDVRDFGKVIETLSRLSRTPIALATGIRPFPTEESINDEDIYKGLPDLIDETLVEDEEDLYDCVYGEDEGGEVYEDLMKAEEAHQPKCPENDIRSCCLAEIKQTEEKYTETLESIEKYFMAPLKRFLTAAEFDSVFINIPELVKLHRNLMQEIHDSIVNKNDQNLYQVFINYKERLVIYGQYCSGVESAISSLDYISKTKEDVKLKLEECSKRANNGKFTLRDLLVVPMQRVLKYHLLLQELVKHTTDPTEKANLKLALDAMKDLAQYVNEVKRDNETLREIKQFQLSIENLNQPVLLFGRPQGDGEIRITTLDKHTKQERHIFLFDLAVIVCKRKGDNYEMKEIIDLQQYKIANNPTTDKENKKWSYGFYLIHTQGQNGLEFYCKTKDLKKKWLEQFEMALSNIRPDYADSNFHDFKMHTFTRVTSCKVCQMLLRGTFYQGYLCFKCGARAHKECLGRVDNCGRVNSGEQGTLKLPEKRTNGLRRTPKQVDPGLPKMQVIRNYSGTPPPALHEGPPLQLQAGDTVELLKGDAHSLFWQGRNLASGEVGFFPSDAVKPCPCVPKPVDYSCQPWYAGAMERLQAETELINRVNSTYLVRHRTKESGEYAISIKYNNEAKHIKILTRDGFFHIAENRKFKSLMELVEYYKHHSLKEGFRTLDTTLQFPYKEPEHSAGQRGNRAGNSLLSPKVLGIAIARYDFCARDMRELSLLKGDVVKIYTKMSANGWWRGEVNGRVGWFPSTYVEEDE |
| 5382 | sp|P32241|VIPR1\_HUMAN | MRPPSPLPARWLCVLAGALAWALGPAGGQAARLQEECDYVQMIEVQHKQCLEEAQLENETIGCSKMWDNLTCWPATPRGQVVVLACPLIFKLFSSIQGRNVSRSCTDEGWTHLEPGPYPIACGLDDKAASLDEQQTMFYGSVKTGYTIGYGLSLATLLVATAILSLFRKLHCTRNYIHMHLFISFILRAAAVFIKDLALFDSGESDQCSEGSVGCKAAMVFFQYCVMANFFWLLVEGLYLYTLLAVSFFSERKYFWGYILIGWGVPSTFTMVWTIARIHFEDYGCWDTINSSLWWIIKGPILTSILVNFILFICIIRILLQKLRPPDIRKSDSSPYSRLARSTLLLIPLFGVHYIMFAFFPDNFKPEVKMVFELVVGSFQGFVVAILYCFLNGEVQAELRRKWRRWHLQGVLGWNPKYRHPSGGSNGATCSTQVSMLTRVSPGARRSSSFQAEVSLV |
| 5383 | sp|P02543|VIME\_PIG | MSTRTVSSSSYRRMFGGPGTASRPSSSRSYVTTSTRTYSLGSALRPSTSRSLYTSSPGGVYATRSSAVRLRSSVPGVRLLQDAVDFSLADAINTEFKNTRTNEKVELQELNDRFANYIDKVRFLEQQNKILLAELEQLKGQGKSRLGDLYEEEMRELRRQVDQLTNDKARVEVERDNLAEDIMRLREKLQEETLQREEAESTLQSFRQDVDNASLARLDLERKVESLQEEIAFLKKLHDEEIQELQAQIQEQHVQIDMDVSKPDLTAALRDVRQQYESVAAKNLQEAEEWYKSKFADLSEAANRNNDALRQAKQESNEYRRQVQSLTCEVDALKGTNESLERQMREMEENFAVEAANYQDTIGRLQDEIQNMKEEMARHLREYQDLLNVKMALDIEIATYRKLLEGEESRISLPLPNFSSLNLRETNLESLPLVDTHSKRTLLIKTVETRDGQVINETSQHHDDLE |
| 5384 | sp|O80796|VIPP1\_ARATH | MALKASPVTGLFPPLRPTASSSPSTSSNRPCSLRILPLRTSFFGNSSGALRVNVLRLACDNRLRCNGHGATMNLFERFSRVVKSYANALISSFEDPEKILEQTVIEMNSDLTKMRQATAQVLASQKQLQNKYKAAQQSSDDWYKRAQLALAKGDEDLAREALKRRKSFADNATALKTQLDQQKGVVDNLVSNTRLLESKIQEAKAKKDTLLARARTAKTATKVQEMIGTVNTSGALSAFEKMEEKVMAMESEADALTQIGTDELEGKFQMLETSSVDDDLADLKKELSGSSKKGELPPGRSTVAASTRYPFKDSEIENELNELRRKANDF |
| 5385 | sp|O95497|VNN1\_HUMAN | MTTQLPAYVAILLFYVSRASCQDTFTAAVYEHAAILPNATLTPVSREEALALMNRNLDILEGAITSAADQGAHIIVTPEDAIYGWNFNRDSLYPYLEDIPDPEVNWIPCNNRNRFGQTPVQERLSCLAKNNSIYVVANIGDKKPCDTSDPQCPPDGRYQYNTDVVFDSQGKLVARYHKQNLFMGENQFNVPKEPEIVTFNTTFGSFGIFTCFDILFHDPAVTLVKDFHVDTIVFPTAWMNVLPHLSAVEFHSAWAMGMRVNFLASNIHYPSKKMTGSGIYAPNSSRAFHYDMKTEEGKLLLSQLDSHPSHSAVVNWTSYASSIEALSSGNKEFKGTVFFDEFTFVKLTGVAGNYTVCQKDLCCHLSYKMSENIPNEVYALGAFDGLHTVEGRYYLQICTLLKCKTTNLNTCGDSAETASTRFEMFSLSGTFGTQYVFPEVLLSENQLAPGEFQVSTDGRLFSLKPTSGPVLTVTLFGRLYEKDWASNASSGLTAQARIIMLIVIAPIVCSLSW |
| 5386 | sp|P54219|VMAT1\_HUMAN | MLRTILDAPQRLLKEGRASRQLVLVVVFVALLLDNMLFTVVVPIVPTFLYDMEFKEVNSSLHLGHAGSSPHALASPAFSTIFSFFNNNTVAVEESVPSGIAWMNDTASTIPPPATEAISAHKNNCLQGTGFLEEEITRVGVLFASKAVMQLLVNPFVGPLTNRIGYHIPMFAGFVIMFLSTVMFAFSGTYTLLFVARTLQGIGSSFSSVAGLGMLASVYTDDHERGRAMGTALGGLALGLLVGAPFGSVMYEFVGKSAPFLILAFLALLDGALQLCILQPSKVSPESAKGTPLFMLLKDPYILVAAGSICFANMGVAILEPTLPIWMMQTMCSPKWQLGLAFLPASVSYLIGTNLFGVLANKMGRWLCSLIGMLVVGTSLLCVPLAHNIFGLIGPNAGLGLAIGMVDSSMMPIMGHLVDLRHTSVYGSVYAIADVAFCMGFAIGPSTGGAIVKAIGFPWLMVITGVINIVYAPLCYYLRSPPAKEEKLAILSQDCPMETRMYATQKPTKEFPLGEDSDEEPDHEE |
| 5387 | sp|O70404|VAMP8\_MOUSE | MEEASGSAGNDRVRNLQSEVEGVKNIMTQNVERILSRGENLDHLRNKTEDLEATSEHFKTTSQKVARKFWWKNVKMIVIICVIVLIIVILIILFATGTIPT |
| 5388 | sp|P35128|UBE2N\_DROME | MSSLPRRIIKETQRLMQEPVPGINAIPDENNARYFHVIVTGPNDSPFEGGVFKLELFLPEDYPMSAPKVRFITKIYHPNIDRLGRICLDVLKDKWSPALQIRTILLSIQALLSAPNPDDPLANDVAELWKVNEAEAIRNAREWTQKYAVED |
| 5389 | sp|P32912|VAM7\_YEAST | MAANSVGKMSEKLRIKVDDVKINPKYVLYGVSTPNKRLYKRYSEFWKLKTRLERDVGSTIPYDFPEKPGVLDRRWQRRYDDPEMIDERRIGLERFLNELYNDRFDSRWRDTKIAQDFLQLSKPNVSQEKSQQHLETADEVGWDEMIRDIKLDLDKESDGTPSVRGALRARTKLHKLRERLEQDVQKKSLPSTEVTRRAALLRSLLKECDDIGTANIAQDRGRLLGVATSDNSSTTEVQGRTNNDLQQGQMQMVRDQEQELVALHRIIQAQRGLALEMNEELQTQNELLTALEDDVDNTGRRLQIANKKARHFNNSA |
| 5390 | sp|O23654|VATA\_ARATH | MPAFYGGKLTTFEDDEKESEYGYVRKVSGPVVVADGMAGAAMYELVRVGHDNLIGEIIRLEGDSATIQVYEETAGLTVNDPVLRTHKPLSVELGPGILGNIFDGIQRPLKTIARISGDVYIPRGVSVPALDKDCLWEFQPNKFVEGDTITGGDLYATVFENTLMNHLVALPPDAMGKITYIAPAGQYSLKDTVIELEFQGIKKSYTMLQSWPVRTPRPVASKLAADTPLLTGQRVLDALFPSVLGGTCAIPGAFGCGKTVISQALSKYSNSDAVVYVGCGERGNEMAEVLMDFPQLTMTLPDGREESVMKRTTLVANTSNMPVAAREASIYTGITIAEYFRDMGYNVSMMADSTSRWAEALREISGRLAEMPADSGYPAYLAARLASFYERAGKVKCLGGPERNGSVTIVGAVSPPGGDFSDPVTSATLSIVQVFWGLDKKLAQRKHFPSVNWLISYSKYSTALESFYEKFDPDFINIRTKAREVLQREDDLNEIVQLVGKDALAEGDKITLETAKLLREDYLAQNAFTPYDKFCPFYKSVWMMRNIIHFYNLANQAVERAAGMDGQKITYTLIKHRLGDLFYRLVSQKFEDPAEGEDTLVEKFKKLYDDLNAGFRALEDETR |
| 5391 | sp|Q949W8|XK2\_ARATH | MADLSLPPDSLFLGFDSSTQSMKATVLDSNLNIIKTELVHFDSDLPQYKTKDGVYRDTTVNGRIVSPTLMWVEAFDLILQKLSNANFDFAKVIAVSGSGQQHGSVYWSKGSSEVLRSLDSKRSLKEQLENAFSVKESPIWMDSSTTLQCKEIENAVGGAMELSKITGSRAYERFTGPQIRKLFMTQGEVYKSTERISLVSSFMASLLVGDYACIDETDAAGMNLMDIEKRCWSKAALEATATGLEEKLGKLAPAYATAGSISQYFVQRFGFEKNCVVVQWSGDNPNSLAGLTLSTPGDLAISLGTSDTVFGITKELQPSLEGHVLPNPVDPESYMVMLVYKNASLTREEIRDRCAEGSWDVFNKYLQQTQPLNNGKLGFYYTENEILPPLPVGSHRYILENFSGESLEGVKEQEVGEFDPPSEVRALIEGQFLSKRAHTERFGMPSPPLRIIATGGASANENILSLISAIFGCDVYTVQRPDSASLGAALRAAHGWLCNKKGSFVPISNLYEGKLETTSLNCKLKVKAGDANIASTYGLLMKKRMEIENKLVEKLGHF |
| 5392 | sp|Q96EX3|WDR34\_HUMAN | MATRAQPGPLSQAGSAGVAALATVGVASGPGPGRPGPLQDETLGVASVPSQWRAVQGIRWETKSCQTASIATASASAQARNHVDAQVQTEAPVPVSVQPPSQYDIPRLAAFLRRVEAMVIRELNKNWQSHAFDGFEVNWTEQQQMVSCLYTLGYPPAQAQGLHVTSISWNSTGSVVACAYGRLDHGDWSTLKSFVCAWNLDRRDLRPQQPSAVVEVPSAVLCLAFHPTQPSHVAGGLYSGEVLVWDLSRLEDPLLWRTGLTDDTHTDPVSQVVWLPEPGHSHRFQVLSVATDGKVLLWQGIGVGQLQLTEGFALVMQQLPRSTKLKKHPRGETEVGATAVAFSSFDPRLFILGTEGGFPLKCSLAAGEAALTRMPSSVPLRAPAQFTFSPHGGPIYSVSCSPFHRNLFLSAGTDGHVHLYSMLQAPPLTSLQLSLKYLFAVRWSPVRPLVFAAASGKGDVQLFDLQKSSQKPTVLIKQTQDESPVYCLEFNSQQTQLLAAGDAQGTVKVWQLSTEFTEQGPREAEDLDCLAAEVAA |
| 5393 | sp|P0DKH5|WRK52\_ARATH | MTNCEKDEEFVCISCVEEVRYSFVSHLSEALRRKGINNVVVDVDIDDLLFKESQAKIEKAGVSVMVLPGNCDPSEVWLDKFAKVLECQRNNKDQAVVSVLYGDSLLRDQWLSELDFRGLSRIHQSRKECSDSILVEEIVRDVYETHFYVGRIGIYSKLLEIENMVNKQPIGIRCVGIWGMPGIGKTTLAKAVFDQMSSAFDASCFIEDYDKSIHEKGLYCLLEEQLLPGNDATIMKLSSLRDRLNSKRVLVVLDDVRNALVGESFLEGFDWLGPGSLIIITSRDKQVFCLCGINQIYEVQGLNEKEARQLFLLSASIKEDMGEQNLQELSVRVINYANGNPLAISVYGRELKGKKKLSEMETAFLKLKRRPPFKIVDAFKSTYDTLSDNEKNIFLDIACFFQGENVNYVIQLLEGCGFFPHVEIDVLVDKCLVTISENRVWLHKLTQDIGREIINGETVQIERRRRLWEPWSIKYLLEYNEHKANGEPKTTFKRAQGSEEIEGLFLDTSNLRFDLQPSAFKNMLNLRLLKIYCSNPEVHPVINFPTGSLHSLPNELRLLHWENYPLKSLPQNFDPRHLVEINMPYSQLQKLWGGTKNLEMLRTIRLCHSHHLVDIDDLLKAENLEVIDLQGCTRLQNFPAAGRLLRLRVVNLSGCIKIKSVLEIPPNIEKLHLQGTGILALPVSTVKPNHRELVNFLTEIPGLSEELERLTSLLESNSSCQDLGKLICLELKDCSCLQSLPNMANLDLNVLDLSGCSSLNSIQGFPRFLKQLYLGGTAIREVPQLPQSLEILNAHGSCLRSLPNMANLEFLKVLDLSGCSELETIQGFPRNLKELYFAGTTLREVPQLPLSLEVLNAHGSDSEKLPMHYKFNNFFDLSQQVVNDFLLKTLTYVKHIPRGYTQELINKAPTFSFSAPSHTNQNATFDLQSGSSVMTRLNHSWRNTLVGFGMLVEVAFPEDYCDATDVGISCVCRWSNKEGRSCRIERKFHCWAPWQVVPKVRKDHTFVFSDVNMRPSTGEGNDPDIWAGLVVFEFFPINQQTKCLNDRFTVRRCGVRVINVATGNTSLENIALVLSLDPVEVSGYEVLRVSYDDLQEMDKVLFLYIASLFNDEDVDFVAPLIAGIDLDVSSGLKVLADVSLISVSSNGEIVMHSLQRQMGKEILHGQSMLLSDCESSMTENLSDVPKKKKKHSESRVKKVVSIPAIDEGDLWTWRKYGQKDILGSRFPRGYYRCAYKFTHGCKATKQVQRSETDSNMLAITYLSEHNHPRPTKRKALADSTRSTSSSIC |
| 5394 | sp|Q9GZS3|WDR61\_HUMAN | MTNQYGILFKQEQAHDDAIWSVAWGTNKKENSETVVTGSLDDLVKVWKWRDERLDLQWSLEGHQLGVVSVDISHTLPIAASSSLDAHIRLWDLENGKQIKSIDAGPVDAWTLAFSPDSQYLATGTHVGKVNIFGVESGKKEYSLDTRGKFILSIAYSPDGKYLASGAIDGIINIFDIATGKLLHTLEGHAMPIRSLTFSPDSQLLVTASDDGYIKIYDVQHANLAGTLSGHASWVLNVAFCPDDTHFVSSSSDKSVKVWDVGTRTCVHTFFDHQDQVWGVKYNGNGSKIVSVGDDQEIHIYDCPI |
| 5395 | sp|P56705|WNT4\_HUMAN | MSPRSCLRSLRLLVFAVFSAAASNWLYLAKLSSVGSISEEETCEKLKGLIQRQVQMCKRNLEVMDSVRRGAQLAIEECQYQFRNRRWNCSTLDSLPVFGKVVTQGTREAAFVYAISSAGVAFAVTRACSSGELEKCGCDRTVHGVSPQGFQWSGCSDNIAYGVAFSQSFVDVRERSKGASSSRALMNLHNNEAGRKAILTHMRVECKCHGVSGSCEVKTCWRAVPPFRQVGHALKEKFDGATEVEPRRVGSSRALVPRNAQFKPHTDEDLVYLEPSPDFCEQDMRSGVLGTRGRTCNKTSKAIDGCELLCCGRGFHTAQVELAERCSCKFHWCCFVKCRQCQRLVELHTCR |
| 5396 | sp|Q8NBI6|XXLT1\_HUMAN | MGLLRGGLPCARAMARLGAVRSHYCALLLAAALAVCAFYYLGSGRETFSSATKRLKEARAGAPAAPSPPALELARGSVAPAPGAKAKSLEGGGAGPVDYHLLMMFTKAEHNAALQAKARVALRSLLRLAKFEAHEVLNLHFVSEEASREVAKGLLRELLPPAAGFKCKVIFHDVAVLTDKLFPIVEAMQKHFSAGLGTYYSDSIFFLSVAMHQIMPKEILQIIQLDLDLKFKTNIRELFEEFDSFLPGAIIGIAREMQPVYRHTFWQFRHENPQTRVGGPPPEGLPGFNSGVMLLNLEAMRQSPLYSRLLEPAQVQQLADKYHFRGHLGDQDFFTMIGMEHPKLFHVLDCTWNRQLCTWWRDHGYSDVFEAYFRCEGHVKIYHGNCNTPIPED |
| 5397 | sp|Q9H977|WDR54\_HUMAN | MFRWERSIPLRGSAAALCNNLSVLQLPARNLTYFGVVHGPSAQLLSAAPEGVPLAQRQLHAKEGAGVSPPLITQVHWCVLPFRVLLVLTSHRGIQMYESNGYTMVYWHALDSGDASPVQAVFARGIAASGHFICVGTWSGRVLVFDIPAKGPNIVLSEELAGHQMPITDIATEPAQGQDCVADMVTADDSGLLCVWRSGPEFTLLTRIPGFGVPCPSVQLWQGIIAAGYGNGQVHLYEATTGNLHVQINAHARAICALDLASEVGKLLSAGEDTFVHIWKLSRNPESGYIEVEHCHGECVADTQLCGARFCDSSGNSFAVTGYDLAEIRRFSSV |
| 5398 | sp|Q5AP80|WOR1\_CANAL | MSNSSIVPTYNGYIHNTRDALAVIQQVLDKQLEPVSRRPHERERGVLIVSGSVFVFIEQSSGIKRWTDGISWSPSRIQGRFLVYGELDKKNLIDKDKKKKKKRKFGPDDEYDHNVNEPDYTGGYGNHLHNDNRSHLNKNSRSGPMLLATGTGSITHTVIENKPSSSASMIHSNVIPASSSFLTDYRTSLGNGPMVSAAISQNGLVKKTITLTTTTKELHMEGKAEKQTIHLISYYSKQDIDSGKLQRPSESDLKHVQISPALWTMVQENSLGGKAPIDDEECFIVDGHNQYTNVSYIQQQQQQHQLQHQPLLHHSSSVAGSTTSIVNNSLSISNGGYGNNYSKNLSRSYNKYSNSQVSQLSYMLPPQTESSSTATIASGASVSVKREDDTNNGSNAPTGNENQYVNAINHSHTSSYGGQGYATDATGIATPAYNSYSQANTSINTSSQQQQQLQQGQYGQYVQYGVAPSTISGATSTNNNSGNAPNIPQDVYYSHYTGFVQPHYPQYHIATGNASDQYNTNAANHQYHSNNTTSSANNNSSSRTTGVGSKRKPSIVSNSTSGSVSGGNGNGNNYGYNSNSSTSTNRPPAVSTNTTSTTSGGSSFSGPSSNITTNSMSNNPWFNSSTNMAVNSSYITSSGGGNSHGGIGNNEYEPMPMTNNSASIPAYYQQHVPSHVGSAQQHQSQQQVAGVGAPHIIHNHPYLHPTYGQGSNSASTGDNSTPGGSSGSGSGGSGNNGAGGSSSVAATSGVTSSNTSGNIVTNGTLVAAGTDDAVGNSSGSYYTGT |
| 5399 | sp|P58304|VSX2\_HUMAN | MTGKAGEALSKPKSETVAKSTSGGAPARCTGFGIQEILGLNKEPPSSHPRAALDGLAPGHLLAARSVLSPAGVGGMGLLGPGGLPGFYTQPTFLEVLSDPQSVHLQPLGRASGPLDTSQTASSDSEDVSSSDRKMSKSALNQTKKRKKRRHRTIFTSYQLEELEKAFNEAHYPDVYAREMLAMKTELPEDRIQVWFQNRRAKWRKREKCWGRSSVMAEYGLYGAMVRHSIPLPESILKSAKDGIMDSCAPWLLGMHKKSLEAAAESGRKPEGERQALPKLDKMEQDERGPDAQAAISQEELRENSIAVLRAKAQEHSTKVLGTVSGPDSLARSTEKPEEEEAMDEDRPAERLSPPQLEDMA |
| 5400 | sp|Q5MNZ9|WIPI1\_HUMAN | MEAEAADAPPGGVESALSCFSFNQDCTSLATGTKAGYKLFSLSSVEQLDQVHGSNEIPDVYIVERLFSSSLVVVVSHTKPRQMNVYHFKKGTEICNYSYSSNILSIRLNRQRLLVCLEESIYIHNIKDMKLLKTLLDIPANPTGLCALSINHSNSYLAYPGSLTSGEIVLYDGNSLKTVCTIAAHEGTLAAITFNASGSKLASASEKGTVIRVFSVPDGQKLYEFRRGMKRYVTISSLVFSMDSQFLCASSNTETVHIFKLEQVTNSRPEEPSTWSGYMGKMFMAATNYLPTQVSDMMHQDRAFATARLNFSGQRNICTLSTIQKLPRLLVASSSGHLYMYNLDPQDGGECVLIKTHSLLGSGTTEENKENDLRPSLPQSYAATVARPSASSASTVPGYSEDGGALRGEVIPEHEFATGPVCLDDENEFPPIILCRGNQKGKTKQS |
| 5401 | sp|Q9LKI5|XPF\_ARATH | MALKYHQQIISDLLEDSNGGLLILSSGLSLAKLIASLLILHSPSQGTLLLLLSPAAQSLKSRIIHYISSLDSPTPTEITADLPANQRYSLYTSGSPFFITPRILIVDLLTQRIPVSSLAGIFILNAHSISETSTEAFIIRIVKSLNSSAYIRAFSDRPQAMVSGFAKTERTMRALFLRKIHLWPRFQLDVSQELEREPPEVVDIRVSMSNYMVGIQKAIIEVMDACLKEMKKTNKVDVDDLTVESGLFKSFDEIVRRQLDPIWHTLGKRTKQLVSDLKTLRKLLDYLVRYDAVSFLKFLDTLRVSESYRSVWLFAESSYKIFDFAKKRVYRLVKASDVKSKEHVKNKSGKKRNSKGETDSVEAVGGETATNVATGVVVEEVLEEAPKWKVLREILEETQEERLKQAFSEEDNSDNNGIVLVACKDERSCMQLEDCITNNPQKVMREEWEMYLLSKIELRSMQTPQKKKQKTPKGFGILDGVVPVTTIQNSEGSSVGRQEHEALMAAASSIRKLGKTTDMASGNNNPEPHVDKASCTKGKAKKDPTSLRRSLRSCNKKTTNSKPEILPGPENEEKANEASTSAPQEANAVRPSGAKKLPPVHFYALESDQPILDILKPSVIIVYHPDMGFVRELEVYKAENPLRKLKVYFIFYDESTEVQKFEASIRRENEAFESLIRQKSSMIIPVDQDGLCMGSNSSTEFPASSTQNSLTRKAGGRKELEKETQVIVDMREFMSSLPNVLHQKGMKIIPVTLEVGDYILSPSICVERKSIQDLFQSFTSGRLFHQVEMMSRYYRIPVLLIEFSQDKSFSFQSSSDISDDVTPYNIISKLSLLVLHFPRLRLLWSRSLHATAEIFTTLKSNQDEPDETRAIRVGVPSEEGIIENDIRAENYNTSAVEFLRRLPGVSDANYRSIMEKCKSLAELASLPVETLAELMGGHKVAKSLREFLDAKYPTLL |
| 5402 | sp|Q9H4A3|WNK1\_HUMAN | MSGGAAEKQSSTPGSLFLSPPAPAPKNGSSSDSSVGEKLGAAAADAVTGRTEEYRRRRHTMDKDSRGAAATTTTTEHRFFRRSVICDSNATALELPGLPLSLPQPSIPAAVPQSAPPEPHREETVTATATSQVAQQPPAAAAPGEQAVAGPAPSTVPSSTSKDRPVSQPSLVGSKEEPPPARSGSGGGSAKEPQEERSQQQDDIEELETKAVGMSNDGRFLKFDIEIGRGSFKTVYKGLDTETTVEVAWCELQDRKLTKSERQRFKEEAEMLKGLQHPNIVRFYDSWESTVKGKKCIVLVTELMTSGTLKTYLKRFKVMKIKVLRSWCRQILKGLQFLHTRTPPIIHRDLKCDNIFITGPTGSVKIGDLGLATLKRASFAKSVIGTPEFMAPEMYEEKYDESVDVYAFGMCMLEMATSEYPYSECQNAAQIYRRVTSGVKPASFDKVAIPEVKEIIEGCIRQNKDERYSIKDLLNHAFFQEETGVRVELAEEDDGEKIAIKLWLRIEDIKKLKGKYKDNEAIEFSFDLERDVPEDVAQEMVESGYVCEGDHKTMAKAIKDRVSLIKRKREQRQLVREEQEKKKQEESSLKQQVEQSSASQTGIKQLPSASTGIPTASTTSASVSTQVEPEEPEADQHQQLQYQQPSISVLSDGTVDSGQGSSVFTESRVSSQQTVSYGSQHEQAHSTGTVPGHIPSTVQAQSQPHGVYPPSSVAQGQSQGQPSSSSLTGVSSSQPIQHPQQQQGIQQTAPPQQTVQYSLSQTSTSSEATTAQPVSQPQAPQVLPQVSAGKQLPVSQPVPTIQGEPQIPVATQPSVVPVHSGAHFLPVGQPLPTPLLPQYPVSQIPISTPHVSTAQTGFSSLPITMAAGITQPLLTLASSATTAAIPGVSTVVPSQLPTLLQPVTQLPSQVHPQLLQPAVQSMGIPANLGQAAEVPLSSGDVLYQGFPPRLPPQYPGDSNIAPSSNVASVCIHSTVLSPPMPTEVLATPGYFPTVVQPYVESNLLVPMGGVGGQVQVSQPGGSLAQAPTTSSQQAVLESTQGVSQVAPAEPVAVAQTQATQPTTLASSVDSAHSDVASGMSDGNENVPSSSGRHEGRTTKRHYRKSVRSRSRHEKTSRPKLRILNVSNKGDRVVECQLETHNRKMVTFKFDLDGDNPEEIATIMVNNDFILAIERESFVDQVREIIEKADEMLSEDVSVEPEGDQGLESLQGKDDYGFSGSQKLEGEFKQPIPASSMPQQIGIPTSSLTQVVHSAGRRFIVSPVPESRLRESKVFPSEITDTVAASTAQSPGMNLSHSASSLSLQQAFSELRRAQMTEGPNTAPPNFSHTGPTFPVVPPFLSSIAGVPTTAAATAPVPATSSPPNDISTSVIQSEVTVPTEEGIAGVATSTGVVTSGGLPIPPVSESPVLSSVVSSITIPAVVSISTTSPSLQVPTSTSEIVVSSTALYPSVTVSATSASAGGSTATPGPKPPAVVSQQAAGSTTVGATLTSVSTTTSFPSTASQLCIQLSSSTSTPTLAETVVVSAHSLDKTSHSSTTGLAFSLSAPSSSSSPGAGVSSYISQPGGLHPLVIPSVIASTPILPQAAGPTSTPLLPQVPSIPPLVQPVANVPAVQQTLIHSQPQPALLPNQPHTHCPEVDSDTQPKAPGIDDIKTLEEKLRSLFSEHSSSGAQHASVSLETSLVIESTVTPGIPTTAVAPSKLLTSTTSTCLPPTNLPLGTVALPVTPVVTPGQVSTPVSTTTSGVKPGTAPSKPPLTKAPVLPVGTELPAGTLPSEQLPPFPGPSLTQSQQPLEDLDAQLRRTLSPEMITVTSAVGPVSMAAPTAITEAGTQPQKGVSQVKEGPVLATSSGAGVFKMGRFQVSVAADGAQKEGKNKSEDAKSVHFESSTSESSVLSSSSPESTLVKPEPNGITIPGISSDVPESAHKTTASEAKSDTGQPTKVGRFQVTTTANKVGRFSVSKTEDKITDTKKEGPVASPPFMDLEQAVLPAVIPKKEKPELSEPSHLNGPSSDPEAAFLSRDVDDGSGSPHSPHQLSSKSLPSQNLSQSLSNSFNSSYMSSDNESDIEDEDLKLELRRLRDKHLKEIQDLQSRQKHEIESLYTKLGKVPPAVIIPPAAPLSGRRRRPTKSKGSKSSRSSSLGNKSPQLSGNLSGQSAASVLHPQQTLHPPGNIPESGQNQLLQPLKPSPSSDNLYSAFTSDGAISVPSLSAPGQGTSSTNTVGATVNSQAAQAQPPAMTSSRKGTFTDDLHKLVDNWARDAMNLSGRRGSKGHMNYEGPGMARKFSAPGQLCISMTSNLGGSAPISAASATSLGHFTKSMCPPQQYGFPATPFGAQWSGTGGPAPQPLGQFQPVGTASLQNFNISNLQKSISNPPGSNLRTT |
| 5403 | sp|Q80X41|VRK1\_MOUSE | MPRVKAAQAGRPGPAKRRLAEQFAAGEVLTDMSRKEWKLGLPIGQGGFGCIYLADTNSSKPVGSDAPCVVKVEPSDNGPLFTELKFYQRAAKPEQIQKWIRTHKLKYLGVPKYWGSGLHDKNGKSYRFMIMDRFGSDLQKIYEANAKRFSRKTVLQLSLRILDILEYIHEHEYVHGDIKASNLLLSHKNPDQVYLVDYGLAYRYCPDGVHKEYKEDPKRCHDGTLEFTSIDAHKGVAPSRRGDLEILGYCMIQWLSGCLPWEDNLKDPNYVRDSKIRYRDNVAALMEKCFPEKNKPGEIAKYMESVKLLEYTEKPLYQNLRDILLQGLKAIGSKDDGKLDFSAVENGSVKTRPASKKRKKEAEESAVCAVEDMECSDTQVQEAAQTRSVESQGAIHGSMSQPAAGCSSSDSSRRQQHLGLEQDMLRLDRRGSRTRKKAQK |
| 5404 | sp|Q6IN36|WIPF1\_RAT | MPVPPPPAPPPPPTFALANTEKPSLNKTEQAGRNALLSDISKGKKLKKTVTNDRSAPILDKPKGAGGGYGGGSGGGGGGGSSGGGGNFGGGGPPGLGGLFQAGMPKLRSTANRDNDSGGSRPPILPPGGRATSAKPFSSPSGPGRFPAPSPGHRSGPPEPPRNRMPPPRPDVGSKPDSLPPPVPNTPRPIPSSLHNRGSPAGLGAPRPPFPGNRGAAFGAGSVRQNLSSSSSPFPRPPLPPTPSRALDDKPPPPPPPVGNRPSMHREAVPPPPSQNSKPPVPSTPRPGAGSQAPPPPPPSRPGPPPLPPTSSDEIPRLPQRNLSLTSPTPPLPSPGRSGPLPPPPTERPPPPVRDPPGRSGPLPPPPPINRNGSTARALPATPQLPSRSGMDSPRSGPRPPLPPDRPGAGAPPPPPPSTSVRNGFQDSSCEDEWESRFYFHPISDLPPPEPYVPTTKTYPSKVARSESRSGSNRRERGAPPLPPIPR |
| 5405 | sp|Q9PTU8|VSP3\_BOTJA | MVLIRVIANLLILQLSNAQKSSELVIGGDECNITEHRFLVEIFNSSGLFCGGTLIDQEWVLSAAHCDMRNMRIYLGVHNEGVQHADQQRRFAREKFFCLSSRNYTKWDKDIMLIRLNRPVNNSEHIAPLSLPSNPPSVGSVCRIMGWGTITSPNATFPDVPHCANINLFNYTVCRGAHAGLPATSRTLCAGVLQGGIDTCGGDSGGPLICNGTFQGIVSWGGHPCAQPGEPALYTKVFDYLPWIQSIIAGNTTATCPP |
| 5406 | sp|P0DJE9|VSP1\_BOTMA | VIGGDECNINESPFLAFLYSQLLSSRRYFCGMTLINQEWVLTAAHCNLYPDRKDMNWWLLIKLGKHSGSTRRWVANYDEQVRYWPKEKFIWWYCPNKKKDVINNYVWVWWDKDILLWELWMLIRLNRPVKYSEHIAPLSLPSSPPSAKWWHVGSVCRIMGWGQITETWWNSEDTLPDVPRCANINLFNYEVCRAYNQRWWRGLPAKTLCAGDLEGIIRGGWDTCVGDSGGPLICDGQYQGIAYWGSKPCAEPDEPAAYSKVFDHLDWSQSVIAGGTWWRGDDTCP |
| 5407 | sp|Q03619|YE12B\_YEAST | MESQQLSNYPHISHGSACASVTSKEVHTNQDPLDVSASKIQEYDKASTKANSQQTTTPASSAVPENPHHASPQPASVPPPQNGPYPQQCMMTQNQANPSGWSFYGHPSMIPYTPYQMSPMYFPPGPQSQFPQYPSSVGTPLSTPSPESGNTFTDSSSADSDMTSTKKYVRPPPMLTSPNDFPNWVKTYIKFLQNSNLGGIIPTVNGKPVRQITDDELTFLYNTFQIFAPSQFLPTWVKDILSVDYTDIMKILSKSIEKMQSDTQEANDIVTLANLQYNGSTPADAFETKVTNIIDRLNNNGIHINNKVACQLIMRGLSGEYKFLRYTRHRHLNMTVAELFLDIHAIYEEQQGSRNSKPNYRRNPSDEKNDSRSYTNTTKPKVIARNPQKTNNSKSKTARAHNVSTSNNSPSTDNDSISKSTTEPIQLNNKHDLHLGQKLTESTVNHTNHSDDELPGHLLLDSGASRTLIRSAHHIHSASSNPDINVVDAQKRNIPINAIGDLQFHFQDNTKTSIKVLHTPNIAYDLLSLNELAAVDITACFTKNVLERSDGTVLAPIVKYGDFYWVSKKYLLPSNISVPTINNVHTSESTRKYPYPFIHRMLAHANAQTIRYSLKNNTITYFNESDVDWSSAIDYQCPDCLIGKSTKHRHIKGSRLKYQNSYEPFQYLHTDIFGPVHNLPKSAPSYFISFTDETTKFRWVYPLHDRREDSILDVFTTILAFIKNQFQASVLVIQMDRGSEYTNRTLHKFLEKNGITPCYTTTADSRAHGVAERLNRTLLDDCRTQLQCSGLPNHLWFSAIEFSTIVRNSLASPKSKKSARQHAGLAGLDISTLLPFGQPVIVNDHNPNSKIHPRGIPGYALHPSRNSYGYIIYLPSLKKTVDTTNYVILQGKESRLDQFNYDALTFDEDLNRLTASYHSFIASNEIQQSNDLNIESDHDFQSDIELHPEQLRNVLSKAVSPTDSTPPSTHTEDSKRVSKTNIRAPREVDPNISESNILPSKKRSSTPQISDIESTGSGGMHRLDVPLLAPMSQSNTHESSHASKSKDFRHSDSYSDNETNHTNVPISSTGGTNNKTVPQTSEQETEKRIIHRSPSIDTSSSESNSLHHVVPIKTSDTCPKENTEESIIADLPLPDLPPEPPTELSDSFKELPPINSHQTNSSLGGIGDSNAYTTINSKKRSLEDNETEIKVSRDTWNTKNMRSLEPPRSKKRIHLIAAVKAVKSIKPIRTTLRYDEAITYNKDIKEKEKYIQAYHKEVNQLLKMKTWDTDRYYDRKEIDPKRVINSMFIFNRKRDGTHKARFVARGDIQHPDTYDPGMQSNTVHHYALMTSLSLALDNNYYITQLDISSAYLYADIKEELYIRPPPHLGMNDKLIRLKKSLYGLKQSGANWYETIKSYLIKQCGMEEVRGWSCVFKNSQVTICLFVDDMILFSKDLNANKKIITTLKKQYDTKIINLGESDNEIQYDILGLEIKYQRGKYMKLGMENSLTEKIPKLNVPLNPKGRKLSAPGQPGLYIDQQELELEEDDYKMKVHEMQKLIGLASYVGYKFRFDLLYYINTLAQHILFPSKQVLDMTYELIQFIWNTRDKQLIWHKSKPVKPTNKLVVISDASYGNQPYYKSQIGNIYLLNGKVIGGKSTKASLTCTSTTEAEIHAISESVPLLNNLSHLVQELNKKPITKGLLTDSKSTISIIISNNEEKFRNRFFGTKAMRLRDEVSGNHLHVCYIETKKNIADVMTKPLPIKTFKLLTNKWIH |
| 5408 | sp|P0C2I5|YL12B\_YEAST | MESQQLSQHSPISHGSACASVTSKEVHTNQDPLDVSASKTEECEKASTKANSQQTTTPASSAVPENPHHASPQPASVPPPQNGPYPQQCMMTQNQANPSGWSFYGHPSMIPYTPYQMSPMYFPPGPQSQFPQYPSSVGTPLSTPSPESGNTFTDSSSADSDMTSTKKYVRPPPMLTSPNDFPNWVKTYIKFLQNSNLGGIIPTVNGKPVRQITDDELTFLYNTFQIFAPSQFLPTWVKDILSVDYTDIMKILSKSIEKMQSDTQEANDIVTLANLQYNGSTPADAFETKVTNIIDRLNNNGIHINNKVACQLIMRGLSGEYKFLRYTRHRHLNMTVAELFLDIHAIYEEQQGSRNSKPNYRRNLSDEKNDSRSYTNTTKPKVIARNPQKTNNSKSKTARAHNVSTSNNSPSTDNDSISKSTTEPIQLNNKHDLHLGQELTESTVNHTNHSDDELPGHLLLDSGASRTLIRSAHHIHSASSNPDINVVDAQKRNIPINAIGDLQFHFQDNTKTSIKVLHTPNIAYDLLSLNELAAVDITACFTKNVLERSDGTVLAPIVKYGDFYWVSKKYLLPSNISVPTINNVHTSESTRKYPYPFIHRMLAHANAPTIRYSLKNNTITYFNESDVDWSSAIDYQCPDCLIGKSTKHRHIKGSRLKYQNSYEPFQYLHTDIFGPVHNLPNSAPSYFISFTDETTKFRWVYPLHDRREDSILDVFTTILAFIKNQFQASVLVIQMDRGSEYTNRTLHKFLEKNGITPCYTTTADSRAHGVAERLNRTLLDDCRTQLQCSGLPNHLWFSAIEFSTIVRNSLASPKSKKSARQHAGLAGLDISTLLPFGQPVIVNDHNPNSKIHPRGIPGYALHPSRNSYGYIIYLPSLKKTVDTTNYVILQGKESRLDQFNYDALTFDEDLNRLTASYHSFIASNEIQESNDLNIESDHDFQSDIELHPEQPRNVLSKAVSPTDSTPPSTHTEDSKRVSKTNIRAPREVDPNISESNILPSKKRSSTPQISNIESTGSGGMHKLNVPLLAPMSQSNTHESSHASKSKDFRHSDSYSENETNHTNVPISSTGGTNNKTVPQISDQETEKRIIHRSPSIDASPPENNSSHNIVPIKTPTTVSEQNTEESIIADLPLPDLPPESPTEFPDPFKELPPINSRQTNSSLGGIGDSNAYTTINSKKRSLEDNETEIKVSRDTWNTKNMRSLEPPRSKKRIHLIAAVKAVKSIKPIRTTLRYDEAITYNKDIKEKEKYIEAYHKEVNQLLKMKTWDTDEYYDRKEIDPKRVINSMFIFNKKRDGTHKARFVARGDIQHPDTYDSGMQSNTVHHYALMTSLSLALDNNYYITQLDISSAYLYADIKEELYIRPPPHLGMNDKLIRLKKSLYGLKQSGANWYETIKSYLIKQCGMEEVRGWSCVFKNSQVTICLFVDDMILFSKDLNANKKIITTLKKQYDTKIINLGESDNEIQYDILGLEIKYQRGKYMKLGMENSLTEKIPKLNVPLNPKGRKLSAPGQPGLYIDQDELEIDEDEYKEKVHEMQKLIGLASYVGYKFRFDLLYYINTLAQHILFPSRQVLDMTYELIQFMWDTRDKQLIWHKNKPTEPDNKLVAISDASYGNQPYYKSQIGNIYLLNGKVIGGKSTKASLTCTSTTEAEIHAISESVPLLNNLSYLIQELNKKPIIKGLLTDSRSTISIIKSTNEEKFRNRFFGTKAMRLRDEVSGNNLYVYYIETKKNIADVMTKPLPIKTFKLLTNKWIH |
| 5409 | sp|P38806|YNG2\_YEAST | MDPSLVLEQTIQDVSNLPSEFRYLLEEIGSNDLKLIEEKKKYEQKESQIHKFIRQQGSIPKHPQEDGLDKEIKESLLKCQSLQREKCVLANTALFLIARHLNKLEKNIALLEEDGVLAPVEEDGDMDSAAEASRESSVVSNSSVKKRRAASSSGSVPPTLKKKKTSRTSKLQNEIDVSSREKSVTPVSPSIEKKIARTKEFKNSRNGKGQNGSPENEEEDKTLYCFCQRVSFGEMVACDGPNCKYEWFHYDCVNLKEPPKGTWYCPECKIEMEKNKLKRKRN |
| 5410 | sp|O75886|STAM2\_HUMAN | MPLFTANPFEQDVEKATNEYNTTEDWSLIMDICDKVGSTPNGAKDCLKAIMKRVNHKVPHVALQALTLLGACVANCGKIFHLEVCSRDFATEVRAVIKNKAHPKVCEKLKSLMVEWSEEFQKDPQFSLISATIKSMKEEGITFPPAGSQTVSAAAKNGTSSNKNKEDEDIAKAIELSLQEQKQQHTETKSLYPSSEIQLNNKVARKVRALYDFEAVEDNELTFKHGEIIIVLDDSDANWWKGENHRGIGLFPSNFVTTNLNIETEAAAVDKLNVIDDDVEEIKKSEPEPVYIDEDKMDRALQVLQSIDPTDSKPDSQDLLDLEDICQQMGPMIDEKLEEIDRKHSELSELNVKVLEALELYNKLVNEAPVYSVYSKLHPPAHYPPASSGVPMQTYPVQSHGGNYMGQSIHQVTVAQSYSLGPDQIGPLRSLPPNVNSSVTAQPAQTSYLSTGQDTVSNPTYMNQNSNLQSATGTTAYTQQMGMSVDMSSYQNTTSNLPQLAGFPVTVPAHPVAQQHTNYHQQPLL |
| 5411 | sp|P97306|STAC\_MOUSE | MIPPSGAREDSGDGLTGEATGTEQPPSPASTSSLESKLQKLKRSLSFKTKSLRSKSADNFFPRTNSDVKPQADLLAKASPGPSPIAIPGSPASMPTKAGLHPGSNSKLHAFQEHVFKKPTFCDVCNHMIVGTHAKHGLRCGACKMSIHHKCADGLAPQRCMGKLPKGFRRYYSSPLLIHEQFGCIKEVMPIACGNKVDPVYEALRFGTSLAQRTKKGGSGSGSDSPPRTSTSELVDVPEEADGPGDGSDMRTRSNSVFTYPENGMDDFRDQMKTTNHQGPLSKDPLQMNTYVALYRFIPQENEDLEMRPGDMITLLEDSNEDWWKGKIQDRVGFFPANFVQRVEEHEKIYRCVRTFIGCKDQGQITLKENQICVTSEEEQDGFIRVLSGKKRGLVPLDVLVDV |
| 5412 | sp|G5EF60|STIM1\_CAEEL | MGRVSWIIALYLTINVVIVVNGDRVTRNVEVTAEEEKIRDKLGYEAIRDIHRDMDDDHSGSIDRNESTGFMKEDMQMRGSERTRRENKFHGDDDAITVDDLWEAWFESIERTWTNERLVEWLINDVNLPSIVEAVKAKKIDGKILPRFASPNSDFLNKELGIKSSVYRQKLRLNSLDVVLFGYKDNNNRTKDILLAFLALLLTSLIFLYVRQKQKAQQKVNELSNKLTELKCMETEFEDVQKMLNDERSKRSISDGVVNHTEMENLRVQLEEAERRLEANSNGSQAPLALQPLLRRTCENEMAFLEKQRQDCFKEMKEAIEMVDRLQKKQGSVLSSLKLATGAASTSDQVDSKIFALKSRMEKIHTLTRETQERWLQIESLCGFPLLYLNETEHINRSIASSHFYNKSHEGSSSSGSISNAHSNPNAVNSNFVKKVSPPIPPSQQTANLRFVPTEQSDSIHSEDTSPIVEDVAISRSLTQDLAEADMQSIVSGSTNGSGSVAALKKRKGIFPKLFRRNTSKSSSLGGTSN |
| 5413 | sp|Q923B6|STEA4\_MOUSE | MEKAHADEFPLTTDSSEKQGVVCIFGTGDFGKSLGLKMLQCGYSIVFGSRNPQVSSLLPRGAEVLSYSEAASKSDIIILAMHREHYDSLTELVDYLKGKVLVDVSNNRKINQYPESNAEYLAQLEPGAHVVKAFNTISAWALQSGTLDASRQVFVCGNDSKAKQRVMDIARTLGLTPLDQGSLMAASEIENYPLQLFPMWRFPFYLSSVLCVFFFVYCAIREVIYPYVNGKTDATYRLAISIPNRVFPITALILLALVYLPGILAAILQLYRGTKYRRFPNWLDHWMLCRKQLGLVALGFAFLHVIYTLVIPIRYYVRWRLRNATITQALTNKDSPFITSYAWINDSYLALGILGFFLFLLLGITSLPSVSNMVNWREFRFVQSKLGYLTLVLCTAHTLVYGGKRFLSPSILRWSLPSAYILALVIPCAVLVLKCILIMPCIDKTLTRIRQGWERNSKYTQSALNGKSDI |
| 5414 | sp|Q9CQ26|STABP\_MOUSE | MSDHGDVSLPPQDRVRILSQLGSAVELNEDIPPRRYYRSGVEIIRMASVYSEEGNIEHAFILYNKYITLFIEKLPKHRDYKSAIIPEKKDAVKKLKSVAFPKAEELKTELLRRYTKEYEQYKERKKKEEEELARNIAIQQELEKEKQRVAQQKQKQLEQEQFHAFEEMIQRQELEKERLKIVQEFGKVDPGPCGPLLPDLEKPCVDVAPSSPFSPTQTPDCNTGMRPAKPPVVDRSLKPGALSVIENVPTIEGLRHIVVPRNLCSEFLQLASANTAKGIETCGVLCGKLMRNEFTITHVLIPRQNGGPDYCHTENEEEIFFMQDDLGLLTLGWIHTHPTQTAFLSSVDLHTHCSYQMMLPESIAIVCSPKFQETGFFKLTDYGLQEISTCRQKGFHPHGRDPPLFCDCSHVTVKDRIVTITDLR |
| 5415 | sp|P16949|STMN1\_HUMAN | MASSDIQVKELEKRASGQAFELILSPRSKESVPEFPLSPPKKKDLSLEEIQKKLEAAEERRKSHEAEVLKQLAEKREHEKEVLQKAIEENNNFSKMAEEKLTHKMEANKENREAQMAAKLERLREKDKHIEEVRKNKESKDPADETEAD |
| 5416 | sp|P70452|STX4\_MOUSE | MRDRTHELRQGDNISDDEDEVRVALVVHSGAARLGSPDDEFFQKVQTIRQTMAKLESKVRELEKQQVTILATPLPEESMKQGLQNLREEIKQLGREVRAQLKAIEPQKEEADENYNSVNTRMKKTQHGVLSQQFVELINKCNSMQSEYREKNVERIRRQLKITNAGMVSDEELEQMLDSGQSEVFVSNILKDTQVTRQALNEISARHSEIQQLERSIRELHEIFTFLATEVEMQGEMINRIEKNILSSADYVERGQEHVKIALENQKKARKKKVMIAICVSVTVLILAVIIGITITVG |
| 5417 | sp|Q9D6K5|SYJ2B\_MOUSE | MNGRVDYLVTEEEINLTRGPSGLGFNIVGGTDQQYVSNDSGIYVSRIKEDGAAAQDGRLQEGDKILSVNGQDLKNLLHQDAVDLFRNAGCAVSLRVQHRLPVQNGPIVHRGEGEPSGVPVAMVLLPVFALTMVAVWAFVRYRKQL |
| 5418 | sp|Q70IV5|SYNEM\_MOUSE | MLSWRLQTGSEKAELQELNARLYDYVCRVRELERENLLLEEELRSRLSREDRWAEDQALYAEEARSLRQQLDELNWSTALAEGERDALRRELLELQREGVEAGTARSRLDAELGAQRRELEEALGARAALEALLGRLETERRDLDAAHERQVRDLRARAASLTMHFRARATSPAAPPPRLRDVHDSYALLVAESWRESVQLYEDEVRELEQALRRGQESRLQAEDEARLCAQEADALRNQALELEQLRARLEDELLRMREEYGMQAEERQRVIDSLEDEKEALTLAMADRLRDYQELLQVKTGLSLEVATYRALLEGESNPEILIWTENIENVPQEPRNTSYRYTNSVLQRKNEKNLFPRRKTPWAAVNHSSASYSNWPGHLDSQTTTAVGSAARRGLLTSRHSSSATTSGQQKPLEKTISSRANLRPVTPTHGFLRNTDAQMKTLPHRSKVEGTGDTHARRATESVITRESYRGHQGHVAAGAVSSTPSNERTVILGKKLEAQATKEQERDRSGVIRIKPEEKMFDSKEKASEERNLRWEELTKLDRDARKRESRHLRDEAREKEALKERSVKEREVPISLEVSRGSRAEVSTIHLQSPGRKDVSHSGGREAETKETRFRLDTQDTASSLQSDSTTETIAESIVTTILKQFTQSPGAEEEATSFPDTKVTYVDRKEFPGDGKTKTEIVVESKLTDVVDVSDEAGLDYLLSKDVKEVGLKGKSTETMIGEMINLGLKGREGRAKVVNVEIVEEPMSYIGGGKIDFSTPFQVEEVDDVSPSPKGFVEEEDGEGETHMAFSMRPHQTKQPQGTIPHVEEVTEAGDSEGEQSYFVSTPDEYPGGHDREDDGSVYGQIHIEEESTIRYSWQDEIAQGTWRRKMRGDVGGEKPVKVLEVPALSLGGAIGSAHLKEEASGELRAEPTVIEKEIKIPHEFHTSIKGVFSSEPRHQLVEVIGQLEETLPERMKEELSALTRQSQGESGSVSVDVKKVQSAAGGSVTLMAEVNLSQTVDADQLDLEQLSRDEAGEIERAVESVVRESLAKRSSPVPRSPDREDGEEVPAGGILFKRWATRELYSPSGERDDAGQVSPSSDQRVTQGPVSATVEVTSPTGFVQSHVLEDVSQSVRHVKLGPTEMWRTEQVTFGGPTAQVVEVSGDFSEAVSSEGASRSVRHITLGPHQSQVSTEVIFRGSVPTWQETGDTEKPGPVVLSVGADISGSGRMPGSERSHTEKEIRFQGPVSGTAQVGGNFATEESVGSQTFVRSLQLGPKEGFREEIQFIAPIPDKVGWGEEDSEHTKVSLERATSIQRIDIVPQRYLASKQMAPQTLEFRDSEDMVMVEGSAGTIQATHNFTSDREILQNKENTFQRVISGSPPDSVGDTGAEVTANVSRSFRHIQIGPTEEEPSEYFVTGRPVSKTFVLDGSVASPGLVGGADGGSTPCRIALGPKETSFTFQMDLSDTRAIRSWTRDTGSEVEAHGVSHRGGWRIAHSRDERVASTGSGASPGDAHQAPGEKGTEQAGFDKTVQLQRMVDQRSVASDEKKVALLYLDNEEEEEEEGEGWF |
| 5419 | sp|P0A8L1|SYS\_ECOLI | MLDPNLLRNEPDAVAEKLARRGFKLDVDKLGALEERRKVLQVKTENLQAERNSRSKSIGQAKARGEDIEPLRLEVNKLGEELDAAKAELDALQAEIRDIALTIPNLPADEVPVGKDENDNVEVSRWGTPREFDFEVRDHVTLGEMHSGLDFAAAVKLTGSRFVVMKGQIARMHRALSQFMLDLHTEQHGYSENYVPYLVNQDTLYGTGQLPKFAGDLFHTRPLEEEADTSNYALIPTAEVPLTNLVRGEIIDEDDLPIKMTAHTPCFRSEAGSYGRDTRGLIRMHQFDKVEMVQIVRPEDSMAALEEMTGHAEKVLQLLGLPYRKIILCTGDMGFGACKTYDLEVWIPAQNTYREISSCSNVWDFQARRMQARCRSKSDKKTRLVHTLNGSGLAVGRTLVAVMENYQQADGRIEVPEVLRPYMNGLEYIG |
| 5420 | sp|F4KFT7|TENAC\_ARATH | MRFLFPTRLINNSSLGLLRSPHTTAPIRSLWFRTKSPVFRSATTPIMTAVAFSSSLSIPPTSEEALPGKLWIKFNRECLFSIYSPFAVCLAAGNLKIDTFRQYIAQDVHFLKAFAHAYELAADCADDDDDKLAISDLRKSVMEELKMHDSFVQDWDLDINKEVSVNSATLRYTEFLLATASGKVEGCKAPGMLDTPFEKTKVAAYTLGAVTPCMRLYAFLGKEFGSLLDLSDVNHPYKKWIDNYSSDAFQASAKQTEDLLEKLSVSMTGEELDIIEKLYQQAMKLEVEFFHAQPLAQPTIVPLLKNHSKDDLVIFSDFDLTCTVVDSSAILAEIAIVTAPKDEQSRSGQQIHRMLSSDLKNTWNLLSKQYTEHYEECIESILNKKKADKFDYEGLCKALEQLSDFEKEANNRVIESGVLKGLNLEDIKRAGERLILQDGCINVFQKILKTENLNAELHVLSYCWCGDLIRAAFSAGGVDAVEVHANEFTFEESISTGEIERKVESPINKAQQFKSILQNRKNENNKKSFLSVYIGDSVGDLLCLLEADIGIVVSSSSSLRRVGSHFGVSFVPLFSGIVQKQKQHTEESSSSAWKGLSGTLYTVSSWAEIHSFALGWE |
| 5421 | sp|P03708|TERL\_LAMBD | MNISNSQVNRLRHFVRAGLRSLFRPEPQTAVEWADANYYLPKESAYQEGRWETLPFQRAIMNAMGSDYIREVNVVKSARVGYSKMLLGVYAYFIEHKQRNTLIWLPTDGDAENFMKTHVEPTIRDIPSLLALAPWYGKKHRDNTLTMKRFTNGRGFWCLGGKAAKNYREKSVDVAGYDELAAFDDDIEQEGSPTFLGDKRIEGSVWPKSIRGSTPKVRGTCQIERAASESPHFMRFHVACPHCGEEQYLKFGDKETPFGLKWTPDDPSSVFYLCEHNACVIRQQELDFTDARYICEKTGIWTRDGILWFSSSGEEIEPPDSVTFHIWTAYSPFTTWVQIVKDWMKTKGDTGKRKTFVNTTLGETWEAKIGERPDAEVMAERKEHYSAPVPDRVAYLTAGIDSQLDRYEMRVWGWGPGEESWLIDRQIIMGRHDDEQTLLRVDEAINKTYTRRNGAEMSISRICWDTGGIDPTIVYERSKKHGLFRVIPIKGASVYGKPVASMPRKRNKNGVYLTEIGTDTAKEQIYNRFTLTPEGDEPLPGAVHFPNNPDIFDLTEAQQLTAEEQVEKWVDGRKKILWDSKKRRNEALDCFVYALAALRISISRWQLDLSALLASLQEEDGAATNKKTLADYARALSGEDE |
| 5422 | sp|Q9WTS5|TEN2\_MOUSE | MDVKDRRHRSLTRGRCGKECRYTSSSLDSEDCRVPTQKSYSSSETLKAYDHDSRMHYGNRVTDLVHRESDEFSRQGTNFTLAELGICEPSPHRSGYCSDMGILHQGYSLSTGSDADSDTEGGMSPEHAIRLWGRGIKSRRSSGLSSRENSALTLTDSDNENKSDDDNGRPIPPTSSSSLLPSAQLPSSHNPPPVSCQMPLLDSNTSHQIMDTNPDEEFSPNSYLLRACSGPQQASSSGPPNHHSQSTLRPPLPPPHNHTLSHHHSSANSLNRNSLTNRRSQIHAPAPAPNDLATTPESVQLQDSWVLNSNVPLETRHFLFKTSSGSTPLFSSSSPGYPLTSGTVYTPPPRLLPRNTFSRKAFKLKKPSKYCSWKCAALSAIAAALLLAILLAYFIAMHLLGLNWQLQPADGHTFNNGVRTGLPGNDDVATVPSGGKVPWSLKNSSIDSGEAEVGRRVTQEVPPGVFWRSQIHISQPQFLKFNISLGKDALFGVYIRRGLPPSHAQYDFMERLDGKEKWSVVESPRERRSIQTLVQNEAVFVQYLDVGLWHLAFYNDGKDKEMVSFNTVVLDSVQDCPRNCHGNGECVSGLCHCFPGFLGADCAKAACPVLCSGNGQYSKGTCQCYSGWKGAECDVPMNQCIDPSCGGHGSCIDGNCVCAAGYKGEHCEEVDCLDPTCSSHGVCVNGECLCSPGWGGLNCELARVQCPDQCSGHGTYLPDSGLCSCDPNWMGPDCSVVCSVDCGTHGVCIGGACRCEEGWTGAACDQRVCHPRCIEHGTCKDGKCECREGWNGEHCTIDGCPDLCNGNGRCTLGQNSWQCVCQTGWRGPGCNVAMETSCADNKDNEGDGLVDCLDPDCCLQSACQNSLLCRGSRDPLDIIQQGQTDWPAVKSFYDRIKLLAGKDSTHIIPGDNPFNSSLVSLIRGQVVTMDGTPLVGVNVSFVKYPKYGYTITRQDGTFDLIANGGSALTLHFERAPFMSQERTVWLPWNSFYAMDTLVMKTEENSIPSCDLSGFVRPDPIIISSPLSTFFSASPASNPIVPETQVLHEEIELPGTNVKLRYLSSRTAGYKSLLKITMTQSTVPLNLIRVHLMVAVEGHLFQKSFQASPNLAYTFIWDKTDAYGQRVYGLSDAVVSVGFEYETCPSLILWEKRTALLQGFELDPSNLGGWSLDKHHTLNVKSGILHKGTGENQFLTQQPAIITSIMGNGRRRSISCPSCNGLAEGNKLLAPVALAVGIDGSLFVGDFNYIRRIFPSRNVTSILELRNKEFKHSNSPGHKYYLAVDPVTGSLYVSDTNSRRIYRVKSLSGAKDLAGNSEVVAGTGEQCLPFDEARCGDGGKAVDATLMSPRGIAVDKNGLMYFVDATMIRKVDQNGIISTLLGSNDLTAVRPLSCDSSMDVAQVRLEWPTDLAVNPMDNSLYVLENNVILRITENHQVSIIAGRPMHCQVPGIDYSLSKLAIHSALESASAIAISHTGVLYITETDEKKINRLRQVTTNGEICLLAGAASDCDCKNDVNCICYSGDDAYATDAILNSPSSLAVAPDGTIYIADLGNIRIRAVSKNKPVLNAFNQYEAASPGEQELYVFNADGIHQYTVSLVTGEYLYNFTYSADNDVTELIDNNGNSLKIRRDSSGMPRHLLMPDNQIITLTVGTNGGLKAVSTQNLELGLMTYDGNTGLLATKSDETGWTTFYDYDHEGRLTNVTRPTGVVTSLHREMEKSITIDIENSNRDDDVTVITNLSSVEASYTVVQDQVRNSYQLCNNGTLRVMYANGMAVSFHSEPHVLAGTITPTIGRCNISLPMENGLNSIEWRLRKEQIKGKVTIFGRKLRVHGRNLLSIDYDRNIRTEKIYDDHRKFTLRIIYDQVGRPFLWLPSSGLAAVNVSYFFNGRLAGLQRGAMSERTDIDKQGRIVSRMFADGKVWSYSYLDKSMVLLLQSQRQYIFEYDSSDRLHAVTMPSVARHSMSTHTSIGYIRNIYNPPESNASVIFDYSDDGRILKTSFLGTGRQVFYKYGKLSKLSEIVYDSTAVTFGYDETTGVLKMVNLQSGGFSCTIRYRKVGPLVDKQIYRFSEEGMINARFDYTYHDNSFRIASIKPVISETPLPVDLYRYDEISGKVEHFGKFGVIYYDINQIITTAVMTLSKHFDTHGRIKEVQYEMFRSLMYWMTVQYDSMGRVIKRELKLGPYANTTKYTYDYDGDGQLQSVAVNDRPTWRYSYDLNGNLHLLNPGNSARLMPLRYDLRDRITRLGDVQYKIDDDGYLCQRGSDIFEYNSKGLLTRAYNKASGWSVQYRYDGVGRRASYKTNLGHHLQYFYSDLHNPTRITHVYNHSNSEITSLYYDLQGHLFAMESSSGEEYYVASDNTGTPLAVYSINGLMIKQLQYTAYGEIYYDSNPDFQMVIGFHGGLYDPLTKLVHFTQRDYDVLAGRWTSPDYTMWRNVGKEPAPFNLYMFKNNNPLSNELDLKNYVTDVKSWLVMFGFQLSNIIPGFPRAKMYFVPPPYELSESQASENGQLITGVQQTTERHNQAFLALEGQVITKKLHASIREKAGHWFATTTPIIGKGIMFAIKEGRVTTGVSSIASEDSRKVASVLNNAYYLDKMHYSIEGKDTHYFVKIGAADGDLVTLGTTIGRKVLESGVNVTVSQPTLLVNGRTRRFTNIEFQYSTLLLSIRYGLTPDTLDEEKARVLDQAGQRALGTAWAKEQQKARDGREGSRLWTEGEKQQLLSTGRVQGYEGYYVLPVEQYPELADSSSNIQFLRQNEMGKR |
| 5423 | sp|P54274|TERF1\_HUMAN | MAEDVSSAAPSPRGCADGRDADPTEEQMAETERNDEEQFECQELLECQVQVGAPEEEEEEEEDAGLVAEAEAVAAGWMLDFLCLSLCRAFRDGRSEDFRRTRNSAEAIIHGLSSLTACQLRTIYICQFLTRIAAGKTLDAQFENDERITPLESALMIWGSIEKEHDKLHEEIQNLIKIQAIAVCMENGNFKEAEEVFERIFGDPNSHMPFKSKLLMIISQKDTFHSFFQHFSYNHMMEKIKSYVNYVLSEKSSTFLMKAAAKVVESKRTRTITSQDKPSGNDVEMETEANLDTRKSVSDKQSAVTESSEGTVSLLRSHKNLFLSKLQHGTQQQDLNKKERRVGTPQSTKKKKESRRATESRIPVSKSQPVTPEKHRARKRQAWLWEEDKNLRSGVRKYGEGNWSKILLHYKFNNRTSVMLKDRWRTMKKLKLISSDSED |
| 5424 | sp|P0ADE4|TAMA\_ECOLI | MRYIRQLCCVSLLCLSGSAVAANVRLQVEGLSGQLEKNVRAQLSTIESDEVTPDRRFRARVDDAIREGLKALGYYQPTIEFDLRPPPKKGRQVLIAKVTPGVPVLIGGTDVVLRGGARTDKDYLKLLDTRPAIGTVLNQGDYENFKKSLTSIALRKGYFDSEFTKAQLGIALGLHKAFWDIDYNSGERYRFGHVTFEGSQIRDEYLQNLVPFKEGDEYESKDLAELNRRLSATGWFNSVVVAPQFDKARETKVLPLTGVVSPRTENTIETGVGYSTDVGPRVKATWKKPWMNSYGHSLTTSTSISAPEQTLDFSYKMPLLKNPLEQYYLVQGGFKRTDLNDTESDSTTLVASRYWDLSSGWQRAINLRWSLDHFTQGEITNTTMLFYPGVMISRTRSRGGLMPTWGDSQRYSIDYSNTAWGSDVDFSVFQAQNVWIRTLYDRHRFVTRGTLGWIETGDFDKVPPDLRFFAGGDRSIRGYKYKSIAPKYANGDLKGASKLITGSLEYQYNVTGKWWGAVFVDSGEAVSDIRRSDFKTGTGVGVRWESPVGPIKLDFAVPVADKDEHGLQFYIGLGPEL |
| 5425 | sp|Q9BXI6|TB10A\_HUMAN | MAKSNGENGPRAPAAGESLSGTRESLAQGPDAATTDELSSLGSDSEANGFAERRIDKFGFIVGSQGAEGALEEVPLEVLRQRESKWLDMLNNWDKWMAKKHKKIRLRCQKGIPPSLRGRAWQYLSGGKVKLQQNPGKFDELDMSPGDPKWLDVIERDLHRQFPFHEMFVSRGGHGQQDLFRVLKAYTLYRPEEGYCQAQAPIAAVLLMHMPAEQAFWCLVQICEKYLPGYYSEKLEAIQLDGEILFSLLQKVSPVAHKHLSRQKIDPLLYMTEWFMCAFSRTLPWSSVLRVWDMFFCEGVKIIFRVGLVLLKHALGSPEKVKACQGQYETIERLRSLSPKIMQEAFLVQEVVELPVTERQIEREHLIQLRRWQETRGELQCRSPPRLHGAKAILDAEPGPRPALQPSPSIRLPLDAPLPGSKAKPKPPKQAQKEQRKQMKGRGQLEKPPAPNQAMVVAAAGDACPPQHVPPKDSAPKDSAPQDLAPQVSAHHRSQESLTSQESEDTYL |
| 5426 | sp|Q588V7|TEB\_ARATH | MDSDSSKSRIDQFYVSKKRKHQSPNLKSGRNEKNVKVTGERSPGDKGTLDSYLKASLDDKSTTNSGLQARQEAFTRKLDLEVSASSVGQNIHPCLPKPVSFATFKECLGQNGSQDLHKEGVAAETHATDGLLCANQKDNSELRDFATSFLSLYCSGVQSVVGSPPHQKENELKRRSSSSSLAQDIQISHKRRCESENIPSLDDLTNPLGSKPESLARNGNNRDKPVSDPTKKMPSNESVEIPMGLRKCSKAPESSAHLTEFHTPGSAIKSCPVGTPKSGCGSSMFSPGEAFWNEAIQVADGLTIPIENFGSVEAKVRDQHVTILSCSKKTDKCTEKLERSLDLDEIRVKDKDAIGFSKVVEKHGRDFNKEVYQLPVKNLELLFQDKNINGGIQERCASFDQNNITLGSSRISESAFVGNKGCENLDIANNAQADKGLIGKMYPEPEGKKVLLCEENRGVRSVSMISNMRKPVGSSESEESHTPSSSHRNYDGLSLSTWLPSEVCSVYNKKGISKLYPWQVECLQVDGVLQKRNLVYCASTSAGKSFVAEVLMLRRVIRTGKMALLVLPYVSICAEKAEHLEVLLEPLGKHVRSYYGNQGGGTLPKDTSVAVCTIEKANSLINRLLEEGRLSELGIIVIDELHMVGDQHRGYLLELMLTKLRYAAGEGSSESSSGESSGTSSGKADPAHGLQIVGMSATMPNVGAVADWLQAALYQTEFRPVPLEEYIKVGSTIYNKKMEVVRTIPKAADMGGKDPDHIVELCNEVVQEGNSVLIFCSSRKGCESTARHISKLIKNVPVNVDGENSEFMDIRSAIDALRRSPSGVDPVLEETLPSGVAYHHAGLTVEEREIVETCYRKGLVRVLTATSTLAAGVNLPARRVIFRQPMIGRDFIDGTRYKQMSGRAGRTGIDTKGDSVLICKPGELKRIMALLNETCPPLQSCLSEDKNGMTHAILEVVAGGIVQTAKDIHRYVRCTLLNSTKPFQDVVKSAQDSLRWLCHRKFLEWNEETKLYTTTPLGRGSFGSSLCPEESLIVLDDLLRAREGLVMASDLHLVYLVTPINVGVEPNWELYYERFMELSPLEQSVGNRVGVVEPFLMRMAHGATVRTLNRPQDVKKNLRGEYDSRHGSTSMKMLSDEQMLRVCKRFFVALILSKLVQEASVTEVCEAFKVARGMVQALQENAGRFSSMVSVFCERLGWHDLEGLVAKFQNRVSFGVRAEIVELTSIPYIKGSRARALYKAGLRTSQAIAEASIPEIVKALFESSAWAAEGTGQRRIHLGLAKKIKNGARKIVLEKAEEARAAAFSAFKSLGLDVNELSKPLPLAPASSLNGQETTERDISRGSVGPDGLQQSIEGHMECENFDMDNHREKPSEVLGDATLGVSSEINLTSRLPNFRPIGTAVGTNGPSAVSILSSDTFPIPVYDNREIKPKDNVEQHLTRNDHIPLSSNKDGTGEKGPVTAGNISGGFDSFLELWGSAGEFFFDLHYNKLQDLNSRISYEIHGIAICWNCSPVYYVNLNKDLPNLECVEKQKLIEDAVIGKSEVLASHNMLDVIKSRWNKISKIMGNVNTRKFTWNLKVQIQVLKSPAISIQRCTRLNLPEGIRDELVDGSWLMMPPLHTSHTIDMSIVIWILWPDEERHSNPNIDKEVKKRLSPEAAEAANRSGRWRNQIRRVAHNGCCRRVAQTRALCSALWKILVSEELLQALTTIEMPLVNVLADMELWGIGIDIEGCLRARNILRDKLRSLEKKAFELAGMTFSLHNPADIANVLFGQLKLPIPENQSKGKLHPSTDKHCLDLLRNEHPVVPIIKEHRTLAKLLNCTLGSICSLAKLRLSTQRYTLHGRWLQTSTATGRLSIEEPNLQSVEHEVEFKLDKNGRDVSSDADRYKINARDFFVPTQENWLLLTADYSQIELRLMAHFSRDSSLISKLSQPEGDVFTMIAAKWTGKAEDSVSPHDRDQTKRLIYGILYGMGANRLAEQLECTSDEAKEKIRSFKSSFPAVTSWLNETISFCQEKGYIQTLKGRRRFLSKIKFGNAKEKSKAQRQAVNSMCQGSAADIIKIAMINIYSAIAEDVDTAASSSSSETRFHMLKGRCRILLQVHDELVLEVDPSYVKLAAMLLQTSMENAVSLLVPLHVKLKVGKTWGSLEPFQTD |
| 5427 | sp|P79005|TAZ1\_SCHPO | MISVQSTETIQKVLENEGDQQFDKEVVQNSDSNIETGQISDSLTKAVEERAETESSSNLSNFTTSESESSKPAYCFNSHSQNMAEGSISIPVISHSMNVENEVSTAEGQDSRTGESENDQNAMIVRSIWDIEKASLLVNDCQNIANMAEQKVMMVSAIFSESSKDIVNPESFSERLGKETVKDLYEFNEQLTTKYGLEFRTIFFSYIRKYDAYWCLFEDLEKPLKSIQFFTGLIDLLDNTNKHLTLRSIVLDALLSADEEDSFYGDALVLFEELVIRYFGTDSNPSIDASEFILSCLPYTSLDALNVVCGQVWKSQKICDFLKSTIGNTSNSPLQLRASFPAFVNAVIHFLLEFKNVRRLERKDLSVKGMLYDSDSQQILNRLRERVSGSTAQSADEASGHESDASEDTFSERTLGLNSIDNTEISEVVSLGLVSSALDKITGLLSADNLSETVSQARDFSHTLSKSLKSRAKSLSQKEAANRSKLIAKRGDNLRREASLSSEQDDLSEDFPPVRESDEQESRSGGRSSAMRVSIERSAARSGTRRSQGNPYEGYRTRRKWTDEEENELYEMISQHGCCWSKIIHIQKLENGPLKTFGPTQIKDKARLIKARFMKQNRLQELYSKSLNWKNVTVGQAYCELHKIPYIEATPPLLREELVNYQS |
| 5428 | sp|P36421|SYYC\_YEAST | MSSAATVDPNEAFGLITKNLQEVLNPQIIKDVLEVQKRHLKLYWGTAPTGRPHCGYFVPMTKLADFLKAGCEVTVLLADLHAFLDNMKAPLEVVNYRAKYYELTIKAILRSINVPIEKLKFVVGSSYQLTPDYTMDIFRLSNIVSQNDAKRAGADVVKQVANPLLSGLIYPLMQALDEQFLDVDCQFGGVDQRKIFVLAEENLPSLGYKKRAHLMNPMVPGLAQGGKMSASDPNSKIDLLEEPKQVKKKINSAFCSPGNVEENGLLSFVQYVIAPIQELKFGTNHFEFFIDRPEKFGGPITYKSFEEMKLAFKEEKLSPPDLKIGVADAINELLEPIRQEFANNKEFQEASEKGYPVATPQKSKKAKKPKNKGTKYPGATKTNEIATKLEETKL |
| 5429 | sp|Q5ST30|SYVM\_HUMAN | MPHLPLASFRPPFWGLRHSRGLPRFHSVSTQSEPHGSPISRRNREAKQKRLREKQATLEAEIAGESKSPAESIKAWRPKELVLYEIPTKPGEKKDVSGPLPPAYSPRYVEAAWYPWWVREGFFKPEYQARLPQATGETFSMCIPPPNVTGSLHIGHALTVAIQDALVRWHRMRGDQVLWVPGSDHAGIATQAVVEKQLWKERGVRRHELSREAFLREVWQWKEAKGGEICEQLRALGASLDWDRECFTMDVGSSVAVTEAFVRLYKAGLLYRNHQLVNWSCALRSAISDIEVENRPLPGHTQLRLPGCPTPVSFGLLFSVAFPVDGEPDAEVVVGTTRPETLPGDVAVAVHPDDSRYTHLHGRQLRHPLMGQPLPLITDYAVQPHVGTGAVKVTPAHSPADAEMGARHGLSPLNVIAEDGTMTSLCGDWLQGLHRFVAREKIMSVLSEWGLFRGLQNHPMVLPICSRSGDVIEYLLKNQWFVRCQEMGARAAKAVESGALELSPSFHQKNWQHWFSHIGDWCVSRQLWWGHQIPAYLVVEDHAQGEEDCWVVGRSEAEAREVAAELTGRPGAELTLERDPDVLDTWFSSALFPFSALGWPQETPDLARFYPLSLLETGSDLLLFWVGRMVMLGTQLTGQLPFSKVLLHPMVRDRQGRKMSKSLGNVLDPRDIISGVEMQVLQEKLRSGNLDPAELAIVAAAQKKDFPHGIPECGTDALRFTLCSHGVQAGDLHLSVSEVQSCRHFCNKIWNALRFILNALGEKFVPQPAEELSPSSPMDAWILSRLALAAQECERGFLTRELSLVTHALHHFWLHNLCDVYLEAVKPVLWHSPRPLGPPQVLFSCADLGLRLLAPLMPFLAEELWQRLPPRPGCPPAPSISVAPYPSACSLEHWRQPELERRFSRVQEVVQVLRALRATYQLTKARPRVLLQSSEPGDQGLFEAFLEPLGTLGYCGAVGLLPPGAAAPSGWAQAPLSDTAQVYMELQGLVDPQIQLPLLAARRYKLQKQLDSLTARTPSEGEAGTQRQQKLSSLQLELSKLDKAASHLRQLMDEPPAPGSPEL |
| 5430 | sp|Q1PS67|TERT\_ORYLA | MTSGDLSSVLNILRSLYKRTRTLEEFADGVVFREGRRAALLQPSDTHSFKSFVRGVFVCSDEELQDVPSCNQTCTFPELLAFILNSLKRKRRRNVLAHGYNFLGVAQEDRDADHFRFQGDLSQSAAYIHSSDLWKKVTARLGTDVTRYLLGSCSVFVLAPPSCVFQICGVPAYDRVSMTTASSGFLLRPPSRKHKSFQVGKKTRSANLTKTGSVGDVEESRKRRRVESEVSTRKRKRESEEEESRERRRGVHHEERRQHEAVLDESTLSGKSGENDAAAVKPPPETSAAPPPLEGGPSWRSGAFPPLPSSQCFIRTLGFLYGGRGMHGFCLNRKRRTAAGPRRLQGQDLVRLVFFEGLPYLNGQERKPKKLPLRYFNMVPVFGRLLQRHRKCRYSSVLHRMCPVVELSRAAQGELSSLIPQHCAPHRVYLFVRECLTAVVPEELWGSDHNRLQFFSRVRGFLKSGKFERISVAELMWKIKVMDCDWLKLRRTAGRFPPSELAYRTRILSQFLTWLLDGFVVGLVRACFYATESVGQKNAIRFYRQEVWSKLQDLAFRRHIAKGEMEELSPAQVASLPKGTVISQLRFIPKTDGMRPITRVIGADSNTRLHHKRIRDLMSMLQARVRSAPALLGSTVWGMTDIHKVLRSLAPAQKDKPQPLYFVKVDVSGAYDSLPHDKLKEVITEALSPVQEEVFTVRHYAKIWADSHEGLKKAFARQVDFSDGSMGSTSMKGFVMSLQKSSKVHHAVLVEQAFGSNLRGKDALQFFTQMLTGSVVQHGKKTYRQCRGIPQGSVVSSLLCCLCYGHMENVLFRDIKNKGWLMRLVDDFLLITPDRNQAQSFLSILLAGVPQYGVVANPQKVVVNFQGSEGGGAFPDIRVLPPHCLFPWCGLLLDTRSLDVCKDYSSYAGLSLRYSLTLGSAHSAGQQMRRKLMSILRIKCHPLFLDLKTNSLESAYKNIHKLVLLQACRFHVCVQSLPFAQTVAKNPTYFQQMIWDMAHYANALIRRSNTGLVLGDGAQKGSVQYEAVELLFCLAFLRVLSKHRPVYKDLLPRLHKWKRRLERLLGDLRLARVRQAANPRALLDFLAMQM |
| 5431 | sp|P13393|TBP\_YEAST | MADEERLKEFKEANKIVFDPNTRQVWENQNRDGTKPATTFQSEEDIKRAAPESEKDTSATSGIVPTLQNIVATVTLGCRLDLKTVALHARNAEYNPKRFAAVIMRIREPKTTALIFASGKMVVTGAKSEDDSKLASRKYARIIQKIGFAAKFTDFKIQNIVGSCDVKFPIRLEGLAFSHGTFSSYEPELFPGLIYRMVKPKIVLLIFVSGKIVLTGAKQREEIYQAFEAIYPVLSEFRKM |
| 5432 | sp|O60907|TBL1X\_HUMAN | MTELAGASSSCCHRPAGRGAMQSVLHHFQRLRGREGGSHFINTSSPRGEAKMSITSDEVNFLVYRYLQESGFSHSAFTFGIESHISQSNINGTLVPPAALISILQKGLQYVEAEISINEDGTVFDGRPIESLSLIDAVMPDVVQTRQQAFREKLAQQQASAAAAAAAATAAATAATTTSAGVSHQNPSKNREATVNGEENRAHSVNNHAKPMEIDGEVEIPSSKATVLRGHESEVFICAWNPVSDLLASGSGDSTARIWNLNENSNGGSTQLVLRHCIREGGHDVPSNKDVTSLDWNTNGTLLATGSYDGFARIWTEDGNLASTLGQHKGPIFALKWNRKGNYILSAGVDKTTIIWDAHTGEAKQQFPFHSAPALDVDWQNNTTFASCSTDMCIHVCRLGCDRPVKTFQGHTNEVNAIKWDPSGMLLASCSDDMTLKIWSMKQEVCIHDLQAHNKEIYTIKWSPTGPATSNPNSNIMLASASFDSTVRLWDIERGVCTHTLTKHQEPVYSVAFSPDGKYLASGSFDKCVHIWNTQSGNLVHSYRGTGGIFEVCWNARGDKVGASASDGSVCVLDLRK |
| 5433 | sp|Q9UIK5|TEFF2\_HUMAN | MVLWESPRQCSSWTLCEGFCWLLLLPVMLLIVARPVKLAAFPTSLSDCQTPTGWNCSGYDDRENDLFLCDTNTCKFDGECLRIGDTVTCVCQFKCNNDYVPVCGSNGESYQNECYLRQAACKQQSEILVVSEGSCATDAGSGSGDGVHEGSGETSQKETSTCDICQFGAECDEDAEDVWCVCNIDCSQTNFNPLCASDGKSYDNACQIKEASCQKQEKIEVMSLGRCQDNTTTTTKSEDGHYARTDYAENANKLEESAREHHIPCPEHYNGFCMHGKCEHSINMQEPSCRCDAGYTGQHCEKKDYSVLYVVPGPVRFQYVLIAAVIGTIQIAVICVVVLCITRKCPRSNRIHRQKQNTGHYSSDNTTRASTRLI |
| 5434 | sp|P49813|TMOD1\_MOUSE | MSYRRELEKYRDLDEDEILGALTEEELRTLENELDELDPDNALLPAGLRQKDQTTKAPTGPFKREELLDHLEKQAKEFKDREDLVPYTGEKRGKVWVPKQKPMDPVLESVTLEPELEEALANASDAELCDIAAILGMHTLMSNQQYYQALGSSSIVNKEGLNSVIKPTQYKPVPDEEPNSTDVEETLERIKNNDPELEEVNLNNIRNIPIPTLKAYAEALKENSYVKKFSIVGTRSNDPVAFALAEMLKVNKVLKTLNVESNFISGAGILRLVEALPHNTSLVELKIDNQSQPLGNKVEMEIVNMLEKNTTLLKFGYHFTQQGPRLRASNAMMSNNDLVRKRRLADLTGPIIPKCRSGV |
| 5435 | sp|P35189|TAF14\_YEAST | MVATVKRTIRIKTQQHILPEVPPVENFPVRQWSIEIVLLDDEGKEIPATIFDKVIYHLHPTFANPNRTFTDPPFRIEEQGWGGFPLDISVFLLEKAGERKIPHDLNFLQESYEVEHVIQIPLNKPLLTEELAKSGSTEETTANTGTIGKRRTTTNTTAEPKAKRAKTGSASTVKGSVDLEKLAFGLTKLNEDDLVGVVQMVTDNKTPEMNVTNNVEEGEFIIDLYSLPEGLLKSLWDYVKKNTE |
| 5436 | sp|P92994|TCMO\_ARATH | MDLLLLEKSLIAVFVAVILATVISKLRGKKLKLPPGPIPIPIFGNWLQVGDDLNHRNLVDYAKKFGDLFLLRMGQRNLVVVSSPDLTKEVLLTQGVEFGSRTRNVVFDIFTGKGQDMVFTVYGEHWRKMRRIMTVPFFTNKVVQQNREGWEFEAASVVEDVKKNPDSATKGIVLRKRLQLMMYNNMFRIMFDRRFESEDDPLFLRLKALNGERSRLAQSFEYNYGDFIPILRPFLRGYLKICQDVKDRRIALFKKYFVDERKQIASSKPTGSEGLKCAIDHILEAEQKGEINEDNVLYIVENINVAAIETTLWSIEWGIAELVNHPEIQSKLRNELDTVLGPGVQVTEPDLHKLPYLQAVVKETLRLRMAIPLLVPHMNLHDAKLAGYDIPAESKILVNAWWLANNPNSWKKPEEFRPERFFEEESHVEANGNDFRYVPFGVGRRSCPGIILALPILGITIGRMVQNFELLPPPGQSKVDTSEKGGQFSLHILNHSIIVMKPRNC |
| 5437 | sp|Q54V07|TGRB1\_DICDI | MKVIYIYLLLLLVCKFLFVKSSCSLKVGKIECTKELETFLLYNETVVNVKMDTNGVKYYFNALEFPYKNLLCDLNIDIKFTPEIPSFPNIPTTGGDFGFTFNFPCDYRRRVKRIEIERTILSLSFDTSKNQFVTYLNPGCGPFNISSSGIQILSTTYETGAIPNVPILDDDKGILTIQGSNLYNTSIKIYSNNILKDTNPSGALDASHSSVTFSAEEFLTPNNWTIEVSICGSFYKSYSFPYFPKLDKMEGVLNDNGGNMVFTGKHLRPKHNVTGTFGNKTIECLTSNSSKSITCTIPSRKNYGFLGYDIPVTITIDGEYKSNTIKISYDLPLIQSVSQRGNSQIFDVTGVYFSGVKNMTVITGKNMKTDIIQKKTATLEEPGFFIESNYTIFIFLPNNTQPGFMNLVVGDGGSETFTSPRYNFKITPTITAGQTFNSTTSGNDLEIKGIFMRTVDSDGRDVPLTVNSGSGGLVCNPLKDGDGLLFTCVLGPGFGSSHTMNVYYNLIPIGSFTVSYNPPYLGTSEQEKDGTIKMNGKDLGESVKDSIMTVVYSDGNTVNGTVIKSSHTSLIFRYPIGNRNTASYIFQLGDQKSNKAGPFTLKPIIENTDPAVPCGGGVVTINGHYFFNYTKDTTTITIGKVPCNISSISETTIECVIVPNLRSLSPYYTSGTKPLVISSSNPGTEKVYQLTPAGLNYKFAPPTITNTSAIDQTALITIYGTSFGDANLEILINDKPCTQPEINIHTYSSLTCNVTNYDEMKIYNYSNTKFNISISVDGQYFIADIFQFKYESGIIYSENKSTGFPNEMYLGFVVFVIFIALISFAAKNQIEKYFEERKSRKAFRSLDNLRLKLRQKHATEIAKHYTFGEQSAPKPDKSTFYDIRKKLSRLPLIRRCFKEHTD |
| 5438 | sp|Q9JMA2|TGT\_MOUSE | MAAVGSPGSLESAPRIMRLVAECSRSGARAGELRLPHGTVATPVFMPVGTQATMKGITTEQLDSLGCRICLGNTYHLGLRPGPELIRKAQGLHGFMNWPHNLLTDSGGFQMVSLFSLSEVTEEGVHFRSPYDGEETLLSPERSVEIQNALGSDIIMQLDHVVSSTVTGPLVEEAMHRSVRWLDRCIAAHKHPDKQNLFAIIQGGLNADLRTTCLKEMTKRDVPGFAIGGLSGGESKAQFWKMVALSTSMLPKDKPRYLMGVGYATDLVVCVALGCDMFDCVYPTRTARFGSALVPTGNLQLKKKQYAKDFSPINPECPCPTCQTHSRAFLHALLHSDNTTALHHLTVHNIAYQLQLLSAVRSSILEQRFPDFVRNFMRTMYGDHSLCPAWAVEALASVGIMLT |
| 5439 | sp|O00206|TLR4\_HUMAN | MMSASRLAGTLIPAMAFLSCVRPESWEPCVEVVPNITYQCMELNFYKIPDNLPFSTKNLDLSFNPLRHLGSYSFFSFPELQVLDLSRCEIQTIEDGAYQSLSHLSTLILTGNPIQSLALGAFSGLSSLQKLVAVETNLASLENFPIGHLKTLKELNVAHNLIQSFKLPEYFSNLTNLEHLDLSSNKIQSIYCTDLRVLHQMPLLNLSLDLSLNPMNFIQPGAFKEIRLHKLTLRNNFDSLNVMKTCIQGLAGLEVHRLVLGEFRNEGNLEKFDKSALEGLCNLTIEEFRLAYLDYYLDDIIDLFNCLTNVSSFSLVSVTIERVKDFSYNFGWQHLELVNCKFGQFPTLKLKSLKRLTFTSNKGGNAFSEVDLPSLEFLDLSRNGLSFKGCCSQSDFGTTSLKYLDLSFNGVITMSSNFLGLEQLEHLDFQHSNLKQMSEFSVFLSLRNLIYLDISHTHTRVAFNGIFNGLSSLEVLKMAGNSFQENFLPDIFTELRNLTFLDLSQCQLEQLSPTAFNSLSSLQVLNMSHNNFFSLDTFPYKCLNSLQVLDYSLNHIMTSKKQELQHFPSSLAFLNLTQNDFACTCEHQSFLQWIKDQRQLLVEVERMECATPSDKQGMPVLSLNITCQMNKTIIGVSVLSVLVVSVVAVLVYKFYFHLMLLAGCIKYGRGENIYDAFVIYSSQDEDWVRNELVKNLEEGVPPFQLCLHYRDFIPGVAIAANIIHEGFHKSRKVIVVVSQHFIQSRWCIFEYEIAQTWQFLSSRAGIIFIVLQKVEKTLLRQQVELYRLLSRNTYLEWEDSVLGRHIFWRRLRKALLDGKSWNPEGTVGTGCNWQEATSI |
| 5440 | sp|Q9BEA8|TNFL6\_PIG | MQQPFNYPYPQIFWVDSSATSPWASPGSVFPCPASVPGRPGQRRPPPPPPPPPPPPTLLPSRPLPPLPPPSLKKKRDHNAGLCLLVMFFMVLVALVGLGLGMFQLFHLQKELTELRESASQRHTESSLEKQIGHPNLPSEKKELRKVAHLTGKPNSRSIPLEWEDTYGIALVSGVKYMKGSLVINDTGLYFVYSKVYFRGQYCNNQPLSHKVYTRNSRYPQDLVLMEGKMMNYCTTGQMWARSSYLGAVFNLTSADHLYVNVSELSLVNFEESKTFFGLYKL |
| 5441 | sp|O60602|TLR5\_HUMAN | MGDHLDLLLGVVLMAGPVFGIPSCSFDGRIAFYRFCNLTQVPQVLNTTERLLLSFNYIRTVTASSFPFLEQLQLLELGSQYTPLTIDKEAFRNLPNLRILDLGSSKIYFLHPDAFQGLFHLFELRLYFCGLSDAVLKDGYFRNLKALTRLDLSKNQIRSLYLHPSFGKLNSLKSIDFSSNQIFLVCEHELEPLQGKTLSFFSLAANSLYSRVSVDWGKCMNPFRNMVLEILDVSGNGWTVDITGNFSNAISKSQAFSLILAHHIMGAGFGFHNIKDPDQNTFAGLARSSVRHLDLSHGFVFSLNSRVFETLKDLKVLNLAYNKINKIADEAFYGLDNLQVLNLSYNLLGELYSSNFYGLPKVAYIDLQKNHIAIIQDQTFKFLEKLQTLDLRDNALTTIHFIPSIPDIFLSGNKLVTLPKINLTANLIHLSENRLENLDILYFLLRVPHLQILILNQNRFSSCSGDQTPSENPSLEQLFLGENMLQLAWETELCWDVFEGLSHLQVLYLNHNYLNSLPPGVFSHLTALRGLSLNSNRLTVLSHNDLPANLEILDISRNQLLAPNPDVFVSLSVLDITHNKFICECELSTFINWLNHTNVTIAGPPADIYCVYPDSFSGVSLFSLSTEGCDEEEVLKSLKFSLFIVCTVTLTLFLMTILTVTKFRGFCFICYKTAQRLVFKDHPQGTEPDMYKYDAYLCFSSKDFTWVQNALLKHLDTQYSDQNRFNLCFEERDFVPGENRIANIQDAIWNSRKIVCLVSRHFLRDGWCLEAFSYAQGRCLSDLNSALIMVVVGSLSQYQLMKHQSIRGFVQKQQYLRWPEDFQDVGWFLHKLSQQILKKEKEKKKDNNIPLQTVATIS |
| 5442 | sp|P04155|TFF1\_HUMAN | MATMENKVICALVLVSMLALGTLAEAQTETCTVAPRERQNCGFPGVTPSQCANKGCCFDDTVRGVPWCFYPNTIDVPPEEECEF |
| 5443 | sp|Q689D1|TLR2\_CANLF | MSRVLWTLWVLGAVTNLSKEEAPDQSSSLSCDPTGVCDGRSRSLNSMPSGLTAAVRSLDLSNNEITYIGNSDLRDCVNLKALRLESNGINTIEEESFLSLWSLEHLDLSYNLLSNLSSSWFRPLSSLKFLNLLGNPYKSLGETPLFSQLTNLRILKVGNIYSFTEIQDKDFAGLTFLEELEIDASNLQRYEPKSLKSIQNISYLALRMKQPVLLVEIFVDLSSSLKHLELRDTHLDTFHFSEASINETHTLVKKWTFRNVKVTDRSFTGVVRLLNYVSGVLEVEFEDCTLYGLGDFDIPDVDKIKNIGQIETLTVRRLHIPHFYSFYDMSSIYSLTEDVKRITVENSKVFLVPCLLSQHLKSLEYLDLSENLMVEEYLKNSACEDAWPSLQTLVLRQNHLASLERTGETLLTLKNLTNIDISKNSFHSMPETCQWPEKMKYLNLSSTRIHSVTGCIPKTLEILDVSNNNLNLFSLNLPQLKELYISRNKLMTLPDASLLPMLLVLKISRNAITTFSKEQLDSFHTLKTLEAGGNNFICSCEFLSFTQEQQALAKVLIDWPANYLCDSPSHVRGQQVQDVRLSVSECHRTALVSGMCCALFLLILLTEVLCHRFHGLWYMRMMWAWLQAKRKPRKAPSRDVCYDAFVSYSEHDSYWVENLLVQKLEHFNPPFKLCLHKRDFIPGKWIIDNIIDSIEKSRKTIFVLSENFVKSEWCKYELDFSHFRLFDENSDAAILILLEPIEKKAIPQRFCKLRKIMNTKTYLEWPTDDAQQEGFWLNLRTAIKS |
| 5444 | sp|Q9QUQ5|TRPC4\_MOUSE | MAQFYYKRNVNAPYRDRIPLRIVRAESELSPSEKAYLNAVEKGDYASVKKSLEEAEIYFKININCIDPLGRTALLIAIENENLELIELLLSFNVYVGDALLHAIRKEVVGAVELLLNHKKPSGEKQVPPILLDKQFSEFTPDITPIILAAHTNNYEIIKLLVQKGVSVPRPHEVRCNCVECVSSSDVDSLRHSRSRLNIYKALASPSLIALSSEDPFLTAFQLSWELQELSKVENEFKSEYEELSRQCKQFAKDLLDQTRSSRELEIILNYRDDNSLIEEQSGNDLARLKLAIKYRQKEFVAQPNCQQLLASRWYDEFPGWRRRHWAVKMVTCFIIGLLFPVFSVCYLIAPKSPLGLFIRKPFIKFICHTASYLTFLFLLLLASQHIDRSDLNRQGPPPTIVEWMILPWVLGFIWGEIKQMWDGGLQDYIHDWWNLMDFVMNSLYLATISLKIVAFVKYSALNPRESWDMWHPTLVAEALFAIANIFSSLRLISLFTANSHLGPLQISLGRMLLDILKFLFIYCLVLLAFANGLNQLYFYYEETKGLSCKGIRCEKQNNAFSTLFETLQSLFWSIFGLINLYVTNVKAQHEFTEFVGATMFGTYNVISLVVLLNMLIAMMNNSYQLIADHADIEWKFARTKLWMSYFEEGGTLPTPFNVIPSPKSLWYLVKWIWTHLCKKKMRRKPESFGTIGRRAADNLRRHHQYQEVMRNLVKRYVAAMIREAKTEEGLTEENVKELKQDISSFRFEVLGLLRGSKLSTIQSANAASSADSDEKSQSEGNGKDKRKNLSLFDLTTLIHPRSAAIASERHNLSNGSALVVQEPPREKQRKVNFVADIKNFGLFHRRSKQNAAEQNANQIFSVSEEITRQQAAGALERNIELESKGLASRGDRSIPGLNEQCVLVDHRERNTDTLGLQVGKRVCSTFKSEKVVVEDTVPIIPKEKHAHEEDSSIDYDLSPTDTAAHEDYVTTRL |
| 5445 | sp|Q969Z4|TR19L\_HUMAN | MKPSLLCRPLSCFLMLLPWPLATLTSTTLWQCPPGEEPDLDPGQGTLCRPCPPGTFSAAWGSSPCQPHARCSLWRRLEAQVGMATRDTLCGDCWPGWFGPWGVPRVPCQPCSWAPLGTHGCDEWGRRARRGVEVAAGASSGGETRQPGNGTRAGGPEETAAQYAVIAIVPVFCLMGLLGILVCNLLKRKGYHCTAHKEVGPGPGGGGSGINPAYRTEDANEDTIGVLVRLITEKKENAAALEELLKEYHSKQLVQTSHRPVSKLPPAPPNVPHICPHRHHLHTVQGLASLSGPCCSRCSQKKWPEVLLSPEAVAATTPVPSLLPNPTRVPKAGAKAGRQGEITILSVGRFRVARIPEQRTSSMVSEVKTITEAGPSWGDLPDSPQPGLPPEQQALLGSGGSRTKWLKPPAENKAEENRYVVRLSESNLVI |
| 5446 | sp|Q94AI7|TPL\_ARATH | MSSLSRELVFLILQFLDEEKFKETVHKLEQESGFFFNMKYFEDEVHNGNWDEVEKYLSGFTKVDDNRYSMKIFFEIRKQKYLEALDKHDRPKAVDILVKDLKVFSTFNEELFKEITQLLTLENFRENEQLSKYGDTKSARAIMLVELKKLIEANPLFRDKLQFPTLRNSRLRTLINQSLNWQHQLCKNPRPNPDIKTLFVDHSCGPPNGARAPSPVNNPLLGGIPKAGGFPPLGAHGPFQPTASPVPTPLAGWMSSPSSVPHPAVSAGAIALGGPSIPAALKHPRTPPTNASLDYPSADSEHVSKRTRPMGISDEVNLGVNMLPMSFSGQAHGHSPAFKAPDDLPKTVARTLSQGSSPMSMDFHPIKQTLLLVGTNVGDIGLWEVGSRERLVQKTFKVWDLSKCSMPLQAALVKEPVVSVNRVIWSPDGSLFGVAYSRHIVQLYSYHGGEDMRQHLEIDAHVGGVNDISFSTPNKQLCVITCGDDKTIKVWDAATGVKRHTFEGHEAPVYSVCPHYKENIQFIFSTALDGKIKAWLYDNMGSRVDYDAPGRWCTTMAYSADGTRLFSCGTSKDGESFIVEWNESEGAVKRTYQGFHKRSLGVVQFDTTKNRYLAAGDDFSIKFWDMDAVQLLTAIDGDGGLQASPRIRFNKEGSLLAVSGNENVIKIMANSDGLRLLHTFENISSESSKPAINSIAAAAAAAATSAGHADRSANVVSIQGMNGDSRNMVDVKPVITEESNDKSKIWKLTEVSEPSQCRSLRLPENLRVAKISRLIFTNSGNAILALASNAIHLLWKWQRNERNATGKATASLPPQQWQPASGILMTNDVAETNPEEAVPCFALSKNDSYVMSASGGKISLFNMMTFKTMATFMPPPPAATFLAFHPQDNNIIAIGMDDSTIQIYNVRVDEVKSKLKGHSKRITGLAFSNVLNVLVSSGADAQLCVWNTDGWEKQRSKVLPLPQGRPNSAPSDTRVQFHQDQAHFLVVHETQLAIYETTKLECMKQWAVRESLAPITHATFSCDSQLVYASFMDATVCVFSSANLRLRCRVNPSAYLPASLSNSNVHPLVIAAHPQEPNMFAVGLSDGGVHIFEPLESEGKWGVAPPAENGSASGAPTAPSVGASASDQPQR |
| 5447 | sp|Q23670|TOP2\_CAEEL | MSDSDSEFSIEDSPKKKTAPKKEKASPKKKKDDANESMVMTEEDRNVFTSIDKKGGGSKQMAIEDIYQKKSQLEHILLRPDTYIGSVEHTEKTPMWVYNMEESKLEQRDISYVPGLYKIYDEILVNAADNKQRDPKMNTIKITINKEKNEISVYNNGKGIPVTQHKVEKVYVPELIFGTLLTSSNYNDDEKKVTGGRNGYGAKLCNIFSTKFTLETSSRDYKSAFKQTWIKNMTRDEEPKIVKSTDEDFTKITFSPDLAKFKMKELDDDICHLMARRAYDVAGSSKGVAVFLNGKRIPIKGFEDYVQMYTSQFNNEGEPLKIAYEQVGDRWQVALALSEKGFQQVSFVNSIATTKGGRHVDYVADQMVAKFIDSIKRKLTKTSMNIKPFQIKNHMWVFVNCLIENPTFDSQTKETMTLQQKQFGSTCVLSEKFSKAASSVGITDAVMSWVRFKQMDDLNKKCSKTKTSKLKGIPKLEDANDAGTKNSQQCTLILTEGDSAKTLAVSGLSVVGRDKYGVFPLRGKLLNVREGNMKQIADNAEVNAMIKILGLQYKKKYETEDDFKTLRYGKLMVMADQDQDGSHIKGLVINFIHHFWPSLIQRNFVEEFITPIVKATKGKEEVSFYSLPEYSEWRMNTDNWKSYKIKYYKGLGTSTSKEAKEYFLDMVRHRIRFKYNGADDDNAVDMAFSKKKIEERKDWLSKWMREKKDRKQQGLAEEYLYNKDTRFVTFKDFVNRELVLFSNLDNERSIPCLVDGFKPGQRKVLFACFKRADKREVKVAQLAGAVAEISAYHHGEQSLMGTIVNLAQDYVGSNNINLLLPIGQFGTRLQGGKDSASARYIFTQLSPVTRTLFPAHDDNVLRFLYEENQRIEPEWYCPIIPMVLVNGAQGIGTGWSTNIPNYNPRELVKNIKRLIAGEPQKALAPWYKNFRGKIIQIDPSRFACYGEVAVLDDNTIEITELPIKQWTQDYKEKVLEGLMESSDKKSPVIVDYKEYHTDTTVKFVVKLSPGKLRELERGQDLHQVFKLQAVINTTCMVLFDAAGCLRTYTSPEAITQEFYDSRQEKYVQRKEYLLGVLQAQSKRLTNQARFILAKINNEIVLENKKKAAIVDVLIKMKFDADPVKKWKEEQKLKELRESGEIELDEDDLAAVAVEEDEAISSAAKAVETKLSDYDYLVGMALIKLSEEEKNKLIKESEEKMAEVRVIEKKTWQDLWHEDLDNFVSELDKQEAREKADQDASIKNAAKKLAADAKTGRGPKKNVCTEVLPSKDGQRIEPMLDAATKAKYEKMSQPKKERVKKEPKEPKEPKKVKKEGQDIKKFMSPAAPKTAKKEKSDGFNSDMSEESDVEFDEGIDFDSDDDGVEREDVVSKPKPRTGKGAAKAEVIDLSDDDEVPAKKPAPAKKAAPKKKKSEFSDLSGGDSDEEAEKKPSTSKKPSPKKAAPKTAEPKSKAVTDFFGASKKNGKKAAGSDDEDDESFVVAPREKSGRARKAPPTYDVDSGSDSDQPKKKRGRVVDSDSD |
| 5448 | sp|Q9UL33|TPC2L\_HUMAN | MAVCIAVIAKENYPLYIRSTPTENELKFHYMVHTSLDVVDEKISAMGKALVDQRELYLGLLYPTEDYKVYGYVTNSKVKFVMVVDSSNTALRDNEIRSMFRKLHNSYTDVMCNPFYNPGDRIQSSRAFDNMVTSMMIQVC |
| 5449 | sp|Q27957|TPPP\_BOVIN | MADSRPKPANKTPPKSPGEPAKDKAAKRLSLEAEGAGEGAAAAGAELSALEEAFRKFAVHGDARASGREMHGKNWSKLCRDCQVIDGRSVTVTDVDIVFSKIKGKSCRTITFEQFKEALEELAKKRFKDKSAEEAVREVHKLIEGKAPIISGVTKAISSPTVSRLTDTSKFTGSHKERFDPSGRGKGRAGRVDLVDESGYVPGYKHAGTYDQKVQGGK |
| 5450 | sp|Q6NKR2|TPMT2\_ARATH | MTDETEEDDTTQQRSSRNDGVSKNKGKGFKGDKAKRALIGAGGRILFYPTLLYNLVRFKLQSQFRWWDQIDEYLLMGAVPFRKDVPRLKKLGVGGVITLNEPYETLVPSSLYSAYEMEHLVIPTRDYLFAPSIVDITLAVNFIHKNALLGKTTYVHCKAGRGRSTTVVLCYLIEHKSMTVAAAFEHVRSIRPRVLLHPSQRKVVEEFSRLQSPLSESTFIATSGDIVS |
| 5451 | sp|D2IYS2|TORSO\_BOMMO | MYSEGKLLKVFLIFAGFIIFSLCGEVVSQRYPPAPGLLKYLEQDVCYSLYYYLNWTSLADCKTNFEETGISDVPSTVKVRCQSKNSIRFETEPSEHWQLFILMEHDNFDPIPFTLIEPNNVFGELITTANKEYQIWSTYLDEYGTLQDWMEGPIVLKFDQRNQQPDDIKYNVTQEFKYIILGNDSYTINGKFVWNTTGDRDLCFDIANICQNTNMKHAKIWPTAHPSFDVENLVLNDECEIHVKGIHGTTKHKYKTPSCFELPECFLNNMEPEIPQDVAIAADQDLRGWWNINVAWAKPHFQPEIYNVTVRANMIRSIILPGNATETTFRNIPNTFLSAGKIYNVSVYAIIGQKASHTSRRAFTPGMLRWVWAGATAGAGCAAGGLLAATLLCCGHRRATSRVSQEDPDEKTPKEDDVEIIGIESGSADDHWEVRSDRVLLHEVIGEGAFGVVRRGTLAPGGKSVAVKMLKEFPSQEEVRSFRSEMELMKSVGAHPHVVSLVGCCSGRKPLIVAEYCSRGDLLSYLRSSWDIIVSKHTAKYYNNNMDSMDTSKLKVHKEHTKLVVNKLYELQGPCETELTPLDLLSFCRQIAMGMEFLASNRIVHRDLAARNVLVTEDKTLKIADFGLSRDIYEENQYKQKGNGKMPVKWMALESLTRRVYTTQSDVWSFGVVIWEIVTVGGSPYPEVPAARLVRSLRSGYRMPKPVNCSKPLYDIMRACWNASPRDRPTFPELHQKLDDLLHSACANEYITLEVDVDEAPSTPKPQRYIKMLIRGKLPWSRESYERPVNPTSNLYSSPPVIQTKTA |
| 5452 | sp|Q9NS56|TOPRS\_HUMAN | MGSQPPLGSPLSREEGEAPPPAPASEGRRRSRRVRLRGSCRHRPSFLGCRELAASAPARPAPASSEIMASAAKEFKMDNFSPKAGTSKLQQTVPADASPDSKCPICLDRFDNVSYLDRCLHKFCFRCVQEWSKNKAECPLCKQPFDSIFHSVRAEDDFKEYVLRPSYNGSFVTPDRRFRYRTTLTRERNASVYSPSGPVNRRTTTPPDSGVLFEGLGISTRPRDVEIPQFMRQIAVRRPTTADERSLRKIQEQDIINFRRTLYRAGARVRNIEDGGRYRDISAEFFRRNPACLHRLVPWLKRELTVLFGAHGSLVNIVQHIIMSNVTRYDLESQAFVSDLRPFLLNRTEHFIHEFISFARSPFNMAAFDQHANYDCPAPSYEEGSHSDSSVITISPDEAETQELDINVATVSQAPWDDETPGPSYSSSEQVHVTMSSLLNTSDSSDEELVTGGATSQIQGVQTNDDLNNDSDDSSDNCVIVGFVKPLAERTPELVELSSDSEDLGSYEKMETVKTQEQEQSYSSGDSDVSRCSSPHSVLGKDEQINKGHCDSSTRIKSKKEEKRSTSLSSPRNLNSSVRGDRVYSPYNHRHRKRGRSRSSDSRSQSRSGHDQKNHRKHHGKKRMKSKRSRSRESSRPRGRRDKKRSRTRDSSWSRRSQTLSLSSESTSRSRSRSSDHGKRRSRSRNRDRYYLRNNYGSRYKWEYTYYSRNKDRDGYESSYRRRTLSRAHYSRQSSSPEFRVQSFSERTNARKKNNHSERKYYYYERHRSRSLSSNRSRTASTGTDRVRNEKPGGKRKYKTRHLEGTNEVAQPSREFASKAKDSHYQKSSSKLDGNYKNESDTFSDSRSSDRETKHKRRKRKTRSLSVEIVYEGKATDTTKHHKKKKKKHKKKHKKHHGDNASRSPVVITIDSDSDKDSEVKEDTECDNSGPQDPLQNEFLAPSLEPFETKDVVTIEAEFGVLDKECDIATLSNNLNNANKTVDNIPPLAASVEQTLDVREESTFVSDLENQPSNIVSLQTEPSRQLPSPRTSLMSVCLGRDCDMS |
| 5453 | sp|Q9FIA0|U76C2\_ARATH | MEEKRNGLRVILFPLPLQGCINPMLQLANILHVRGFSITVIHTRFNAPKASSHPLFTFLQIPDGLSETEIQDGVMSLLAQINLNAESPFRDCLRKVLLESKESERVTCLIDDCGWLFTQSVSESLKLPRLVLCTFKATFFNAYPSLPLIRTKGYLPVSESEAEDSVPEFPPLQKRDLSKVFGEFGEKLDPFLHAVVETTIRSSGLIYMSCEELEKDSLTLSNEIFKVPVFAIGPFHSYFSASSSSLFTQDETCILWLDDQEDKSVIYVSLGSVVNITETEFLEIACGLSNSKQPFLWVVRPGSVLGAKWIEPLSEGLVSSLEEKGKIVKWAPQQEVLAHRATGGFLTHNGWNSTLESICEGVPMICLPGGWDQMLNSRFVSDIWKIGIHLEGRIEKKEIEKAVRVLMEESEGNKIRERMKVLKDEVEKSVKQGGSSFQSIETLANHILLL |
| 5454 | sp|Q9LR44|U75B1\_ARATH | MAPPHFLLVTFPAQGHVNPSLRFARRLIKRTGARVTFVTCVSVFHNSMIANHNKVENLSFLTFSDGFDDGGISTYEDRQKRSVNLKVNGDKALSDFIEATKNGDSPVTCLIYTILLNWAPKVARRFQLPSALLWIQPALVFNIYYTHFMGNKSVFELPNLSSLEIRDLPSFLTPSNTNKGAYDAFQEMMEFLIKETKPKILINTFDSLEPEALTAFPNIDMVAVGPLLPTEIFSGSTNKSVKDQSSSYTLWLDSKTESSVIYVSFGTMVELSKKQIEELARALIEGKRPFLWVITDKSNRETKTEGEEETEIEKIAGFRHELEEVGMIVSWCSQIEVLSHRAVGCFVTHCGWSSTLESLVLGVPVVAFPMWSDQPTNAKLLEESWKTGVRVRENKDGLVERGEIRRCLEAVMEEKSVELRENAKKWKRLAMEAGREGGSSDKNMEAFVEDICGESLIQNLCEAEEVKVK |
| 5455 | sp|Q15631|TSN\_HUMAN | MSVSEIFVELQGFLAAEQDIREEIRKVVQSLEQTAREILTLLQGVHQGAGFQDIPKRCLKAREHFGTVKTHLTSLKTKFPAEQYYRFHEHWRFVLQRLVFLAAFVVYLETETLVTREAVTEILGIEPDREKGFHLDVEDYLSGVLILASELSRLSVNSVTAGDYSRPLHISTFINELDSGFRLLNLKNDSLRKRYDGLKYDVKKVEEVVYDLSIRGFNKETAAACVEK |
| 5456 | sp|P30536|TSPO\_HUMAN | MAPPWVPAMGFTLAPSLGCFVGSRFVHGEGLRWYAGLQKPSWHPPHWVLGPVWGTLYSAMGYGSYLVWKELGGFTEKAVVPLGLYTGQLALNWAWPPIFFGARQMGWALVDLLLVSGAAAATTVAWYQVSPLAARLLYPYLAWLAFTTTLNYCVWRDNHGWRGGRRLPE |
| 5457 | sp|P05852|TSAD\_ECOLI | MRVLGIETSCDETGIAIYDDEKGLLANQLYSQVKLHADYGGVVPELASRDHVRKTVPLIQAALKESGLTAKDIDAVAYTAGPGLVGALLVGATVGRSLAFAWDVPAIPVHHMEGHLLAPMLEDNPPEFPFVALLVSGGHTQLISVTGIGQYELLGESIDDAAGEAFDKTAKLLGLDYPGGPLLSKMAAQGTAGRFVFPRPMTDRPGLDFSFSGLKTFAANTIRDNGTDDQTRADIARAFEDAVVDTLMIKCKRALDQTGFKRLVMAGGVSANRTLRAKLAEMMKKRRGEVFYARPEFCTDNGAMIAYAGMVRFKAGATADLGVSVRPRWPLAELPAA |
| 5458 | sp|P0AF67|TSAE\_ECOLI | MMNRVIPLPDEQATLDLGERVAKACDGATVIYLYGDLGAGKTTFSRGFLQALGHQGNVKSPTYTLVEPYTLDNLMVYHFDLYRLADPEELEFMGIRDYFANDAICLVEWPQQGTGVLPDPDVEIHIDYQAQGREARVSAVSSAGELLLARLAG |
| 5459 | sp|P53781|TTP\_BOVIN | MDLAAIYKSLLSLSPELPSDLGETESSTSWASSGPWSLSSSDSSLPEVAARLPGRSTSLVEGRSCGWVPPPPGFAPLAPRPSSDWSPSPTSPTATPTTSSRYKTELCRTFSESGRCRYGAKCQFAHGLGELRQASRHPKYKTELCHKFYLQGRCPYGSRCHFIHNPSEDLAAPGHPHVLRQSISFSGLPSGRRTSPPPASLAGPSVSSWSFSPSSSPPPPPGDLLLSPSAFSAAPGHLCRRDPTPACCPSCRRATPNSVWGPVGGLARSPSAHSLGSDPDEYASSGTSLGGSDSPVFEAGVFGPPQPPAAPRRLPIFNRISVSE |
| 5460 | sp|Q5M7W1|TXNIP\_RAT | MVMFKKIKSFEVVFNDPEKVYGSGEKVAGRVTVEVCEVTRVKAVRILACGVAKVLWMQGSQQCKQTLDYLRYEDTLLLEDQPTGENEMVIMRPGNKYEYKFGFELPQGPLGTSFKGKYGCVDYWVKAFLDRPSQPTQEAKKNFEVMDLVDVNTPDLMAPVSAKKEKKVSCMFIPDGRVSVSARIDRKGFCEGDDISIHADFENTCSRIVVPKAAIVARHTYLANGQTKVLTQKLSSVRGNHIISGTCASWRGKSLRVQKIRPSILGCNILRVEYSLLIYVSVPGSKKVILDLPLVIGSRSGLSSRTSSMASRTSSEMSWIDLNIPDTPEAPPCYMDVIPEDHRLESPTTPLLDDVDDSQDSPIFMYAPEFQFMPPPTYTEVDPCVLNNNNNNVQ |
| 5461 | sp|Q9H313|TTYH1\_HUMAN | MGAPPGYRPSAWVHLLHQLPRADFQLRPVPSVFAPQEQEYQQALLLVAALAGLGLGLSLIFIAVYLIRFCCCRPPEPPGSKIPSPGGGCVTWSCIVALLAGCTGIGIGFYGNSETSDGVSQLSSALLHANHTLSTIDHLVLETVERLGEAVRTELTTLEEVLEPRTELVAAARGARRQAEAAAQQLQGLAFWQGVPLSPLQVAENVSFVEEYRWLAYVLLLLLELLVCLFTLLGLAKQSKWLVIVMTVMSLLVLVLSWGSMGLEAATAVGLSDFCSNPDPYVLNLTQEETGLSSDILSYYLLCNRAVSNPFQQRLTLSQRALANIHSQLLGLEREAVPQFPSAQKPLLSLEETLNVTEGNFHQLVALLHCRSLHKDYGAALRGLCEDALEGLLFLLLFSLLSAGALATALCSLPRAWALFPPSDDYDDTDDDDPFNPQESKRFVQWQSSI |
| 5462 | sp|Q9TU45|TYOBP\_PIG | MGRLGPSNGLLPLLLAVGGFSLVQAQRECSCSAVSPGILAGIVLGDLVLTLLIALAVYSLGRLVPRTRGAVDVTRKQHIAETESAYQELQGQRSDVYSDLNTQRQYYK |
| 5463 | sp|Q8IRW8|TRR\_DROME | MNIPKVTTSLGAAEKAKPERVASVAAAAFNAVSLQKRSGDDTATPAEDPTRKKAKTELLLGTGTAAPSLPAKASSTAPQQLLYQRSGQQAKAQVKAASEPQDVETADGVWDARDQQIIVCNFGSGTEMGAIKAEDADKQSEYRISTPRNSQSNPLLHRNTAFTSFTKKEGASSSASSSSSTASVISIEPSGSGQDHAENSGKSEDLDYVLMPASGADSSTSVGNSTGTGTPAGTPIGATTSTIILNANNGTAGVSGAGTTTILTQKSGHTNYNIFNTTATGSQTPTTTLLNRVNLHPKMKTQLMVNAKKLSEVTQTTAKVSIGNKTISVPLLKPLMSASGAATAGGATIVESKQLLQPGGQVTTVMSAAQQSGGQQVHPHVHSHAHHNFTKLIKRGPKNSGTIVSFSGLQIKPANTKIVATKVVSKKMLQLQQHQQQIQQQQQLQQLQVTSGGGLAPPTGSIVTITTTNPSQTYAMVQDSATVGPAAHSEDDAPAPRKITAYSENLQKILNKSKSQESTGGPEEFTNINSVVIKPLDKNTLNCPPSFNIFKQQQHSQAAQSQSISAVGSGAGTPVTFTMASGNASDLATTSTVSVSAGTICINSPMMGTRPIISIQNKNISLVLSKTTMAQQKPKMITTTTLSSQAALQMHHALIQDSSADKAGSSANSGSATSGASMQLKLTTANTPTKLSVSLAPDVVKLEEVGSESKAKLLVKQEAVVKDSTGTPTSEERAEEIGTPEKRLNANATMTAINQVQNQSANQIQMATSTSTASNPSTPNPTVNATPMNNQRSAAEDNALLKQLLQNNSSSHSLNQISITSAHVGSASASAPLSARKVINVRAPSMGKVRSLEDQLARPVIPPVPTATQAAGSSSSSGSVATSTTTTTVASGGSSQQVATASATALPVSAVAITTPGVGGEAKLEQKSDQPAAIMQNQSQNQAPPPPPPPQQQQQQQLHQPQQLQPSPHQVKQTVQIVSKETSFISGPVAAKTLVTEATSKPAELLPPPPYEMATAPISNVTISISTKQAAPKELQMKPKAVAMSLPMEQGDESLPEQAEPPLHSEQGATAAGVAPHSGGPLVSAQWTNNHLEGGVATTKIPFKPGEPQKRKLPMHPQLDEKQIQQQAEIPISTSLPTTPTGQGTPDKVQLISAIATYVKKSGVPNEAQPIQNQSQGQVQMQAQMQATMQGHLSGQMSGQISGHAAGQIPAQMHLQVQHQLHMAVHPQQQQQQLHQNQPQNATIPLPVTGQGAVPIPVPTMESKAGDQRKRRKREVQKPRRTNLNAGQAGGALKDLTGPLPAGAMVQLAGMPPGTQYIQGAASGTGHVITSTGQGVTLGGVGASTGASSSPMLKKRVRKFSKVEEDHDAFTEKLLTHIRQMQPLQVLEPHLNRNFHFLIGSNETSGGGSPASMSSAASAGSSSAGGGKLKGGSRGWPLSRHLEGLEDCDGTVLGRYGRVNLPGIPSLYDSERFGGSRGLVGGSARTRSPSPAESPGAEKMLPMSSIQNDFYDQEFSTHMERNPRERLVRHIGAVKDCNLETVDLVESEGVAAWATLPRLTRYPGLILLNGNSRCHGRMSPVALPEDPLTMRFPVSPLLRSCGEELRKTQQMELGMGPLGNNNNNNYQQKNQNVILALPASASENIAGVLRDLANLLHLAPALTCKIIEDKIGNKLEDQFMNQDDEKHVDFKRPLSQVSHGHLRKILNGRRKLCRSCGNVVHATGLRVPRHSVPALEEQLPRLAQLMDMLPRKSVPPPFVYFCDRACFARFKWNGKDGQAEAASLLLQPAGGSAVKSSNGDSPGSFCASSTAPAEMVVKQEPEDEDEKTPSVPGNPTNIPAQRKCIVKCFSADCFTTDSAPSGLELDGTAGAGTGAGPVNNTVWETETSGLQLEDTRQCVFCNQRGDGQADGPSRLLNFDVDKWVHLNCALWSNGVYETVSGALMNFQTALQAGLSQACSACHQPGATIKCFKSRCNSLYHLPCAIREECVFYKNKSVHCSVHGHAHAGITMGAGAGATTGAGLGGSVADNELSSLVVHRRVFVDRDENRQVATVMHYSELSNLLRVGNMTFLNVGQLLPHQLEAFHTPHYIYPIGYKVSRYYWCVRRPNRRCRYICSIAEAGCKPEFRIQVQDAGDKEPEREFRGSSPSAVWQQILQPITRLRKVHKWLQLFPQHISGEDLFGLTEPAIVRILESLPGIETLTDYRFKYGRNPLLEFPLAINPSGAARTEPKQRQLLVWRKPHTQRTAGSCSTQRMANSAAIAGEVACPYSKQFVHSKSSQYKKMKQEWRNNVYLARSKIQGLGLYAARDIEKHTMIIEYIGEVIRTEVSEIREKQYESKNRGIYMFRLDEDRVVDATLSGGLARYINHSCNPNCVTEIVEVDRDVRIIIFAKRKIYRGEELSYDYKFDIEDESHKIPCACGAPNCRKWMN |
| 5464 | sp|P51965|UB2E1\_HUMAN | MSDDDSRASTSSSSSSSSNQQTEKETNTPKKKESKVSMSKNSKLLSTSAKRIQKELADITLDPPPNCSAGPKGDNIYEWRSTILGPPGSVYEGGVFFLDITFTPEYPFKPPKVTFRTRIYHCNINSQGVICLDILKDNWSPALTISKVLLSICSLLTDCNPADPLVGSIATQYMTNRAEHDRMARQWTKRYAT |
| 5465 | sp|P25867|UBCD1\_DROME | MALKRINKELQDLGRDPPAQCSAGPVGDDLFHWQATIMGPPDSPYQGGVFFLTIHFPTDYPFKPPKVAFTTRIYHPNINSNGSICLDILRSQWSPALTISKVLLSICSLLCDPNPDDPLVPEIARIYKTDREKYNELAREWTRKYAM |
| 5466 | sp|P93028|UBE11\_ARATH | MLHKRASEANDKNDNTIIGSDLASSKKRRIDFTESSSDKSSSILASGSSRGFHGDSVVQQIDMAFGNSNRQEIDEDLHSRQLAVYGRETMRRLFASNVLISGMHGLGAEIAKNLILAGVKSVTLHDERVVELWDLSSNFVFSEDDVGKNRADASVQKLQDLNNAVVVSSLTKSLNKEDLSGFQVVVFSDISMERAIEFDDYCHSHQPPIAFVKADVRGLFGSVFCDFGPEFAVLDVDGEEPHTGIIASISNENQAFISCVDDERLEFEDGDLVVFSEVEGMTELNDGKPRKIKSTRPYSFTLDEDTTNYGTYVKGGIVTQVKQPKLLNFKPLREALKDPGDFLFSDFSKFDRPPLLHLAFQALDHFKAEAGRFPVAGSEEDAQKLISIATAINTGQGDLKVENVDQKLLRHFSFGAKAVLNPMAAMFGGIVGQEVVKACSGKFHPLFQFFYFDSVESLPSEPVDSSDFAPRNSRYDAQISVFGAKFQKKLEDAKVFTVGSGALGCEFLKNLALMGVSCGSQGKLTVTDDDIIEKSNLSRQFLFRDWNIGQAKSTVAASAAAVINPRFNIEALQNRVGAETENVFDDAFWENLTVVVNALDNVNARLYVDSRCLYFQKPLLESGTLGTKCNTQSVIPHLTENYGASRDPPEKQAPMCTVHSFPHNIDHCLTWARSEFEGLLEKTPAEVNAYLSSPVEYTNSMMSAGDAQARDTLERIVECLEKEKCETFQDCLTWARLRFEDYFVNRVKQLIYTFPEDAATSTGAPFWSAPKRFPRPLQYSSSDPSLLNFITATAILRAETFGIPIPEWTKNPKEAAEAVDRVIVPDFEPRQDAKIVTDEKATTLTTASVDDAAVIDDLIAKIDQCRHNLSPDFRMKPIQFEKDDDTNYHMDVIAGLANMRARNYSIPEVDKLKAKFIAGRIIPAIATSTAMATGLVCLELYKVLDGGHKVEAYRNTFANLALPLFSMAEPLPPKVVKHRDMAWTVWDRWVLKGNPTLREVLQWLEDKGLSAYSISCGSCLLFNSMFTRHKERMDKKVVDLARDVAKVELPPYRNHLDVVVACEDEDDNDVDIPLVSIYFR |
| 5467 | sp|P61077|UB2D3\_HUMAN | MALKRINKELSDLARDPPAQCSAGPVGDDMFHWQATIMGPNDSPYQGGVFFLTIHFPTDYPFKPPKVAFTTRIYHPNINSNGSICLDILRSQWSPALTISKVLLSICSLLCDPNPDDPLVPEIARIYKTDRDKYNRISREWTQKYAM |
| 5468 | sp|Q96QD9|UIF\_HUMAN | MNRFGTRLVGATATSSPPPKARSNENLDKIDMSLDDIIKLNRKEGKKQNFPRLNRRLLQQSGAQQFRMRVRWGIQQNSGFGKTSLNRRGRVMPGKRRPNGVITGLAARKTTGIRKGISPMNRPPLSDKNIEQYFPVLKRKANLLRQNEGQRKPVAVLKRPSQLSRKNNIPANFTRSGNKLNHQKDTRQATFLFRRGLKVQAQLNTEQLLDDVVAKRTRQWRTSTTNGGILTVSIDNPGAVQCPVTQKPRLTRTAVPSFLTKREQSDVKKVPKGVPLQFDINSVGKQTGMTLNERFGILKEQRATLTYNKGGSRFVTVG |
| 5469 | sp|Q9LK34|UKL2\_ARATH | MPEDSTAIDYVMEKASGPHFSGLRLDGLLSSPSKSSVSSPSHFRLSNSSFSATDDPAAPHQPFVIGVTGGTASGKTTVCDMIIQQLHDHRIVLVNQDSFYRGLTSEELEHVQEYNFDHPDAFDTEQLLHCVDILKSGQPYQIPIYDFKTHQRKVDAFRQVNACDVIILEGILVFHDSRVRDLMNMKIFVDTDADVRLARRIRRDTVERGRDVDSVLEQYAKFVKPAFDDFVLPSKKYADVIIPRGGDNHVAVDLIVQHIHTKLGQHDLCKIYPNVFVIETTFQIRGMHTLIREKDISKHDFVFYSDRLIRLVVEHGLGHLPFTEKQVVTPTGSVYSGVDFCKKLCGVSVIRSGESMENALRACCKGIKIGKILIHRDGDNGMQLIYEKLPSDISERHVLLLDPVLGTGNSANQAIELLIQKGVPEAHIIFLNLISAPEGIHCVCKRFPKLKIVTSEIDQCLNEEFRVIPGLGEFGDRYFGTDE |
| 5470 | sp|P27590|UROM\_RAT | MGQLLSLTWLLLVMVVTPWFTVAGANDSPEARRCSECHDNATCVLDGVVTTCSCQAGFTGDGLVCEDIDECATPWTHNCSNSICMNTLGSYECSCQDGFRLTPGLGCIDVNECTEQGLSNCHSLATCVNTEGSYSCVCPKGYRGDGWYCECSPGFCEPGLDCLPQGPSGKLVCQDPCNVYETLTEYWRSTDYGAGYSCDSDMHGWYRFTGQGGVRMAETCVPVLRCNTAAPMWLNGSHPSSREGIVSRTACAHWSDHCCLWSTEIQVKACPGGFYVYNLTEPPECNLAYCTDPSSVEGTCEECGVDEDCVSDNGRWRCQCKQDFNVTDVSLLEHRLECEANEIKISLSKCQLQSLGFMKVFMYLNDRQCSGFSERGERDWMSIVTPARDGPCGTVLRRNETHATYSNTLYLASEIIIRDINIRINFECSYPLDMKVSLKTSLQPMVSALNISLGGTGKFTVQMALFQNPTYTQPYQGPSVMLSTEAFLYVGTMLDGGDLSRFVLLMTNCYATPSSNSTDPVKYFIIQDRCPHTEDTTIQVTENGESSQARFSIQMFRFAGNSDLVYLHCEVYLCDTMSEQCKPTCSGTRYRSGNFIDQTRVLNLGPITRQGVQASVSKAASSNLGFLSIWLLLFLSATLTLMVH |
| 5471 | sp|P51094|UFOG\_VITVI | MSQTTTNPHVAVLAFPFSTHAAPLLAVVRRLAAAAPHAVFSFFSTSQSNASIFHDSMHTMQCNIKSYDISDGVPEGYVFAGRPQEDIELFTRAAPESFRQGMVMAVAETGRPVSCLVADAFIWFAADMAAEMGLAWLPFWTAGPNSLSTHVYIDEIREKIGVSGIQGREDELLNFIPGMSKVRFRDLQEGIVFGNLNSLFSRMLHRMGQVLPKATAVFINSFEELDDSLTNDLKSKLKTYLNIGPFNLITPPPVVPNTTGCLQWLKERKPTSVVYISFGTVTTPPPAEVVALSEALEASRVPFIWSLRDKARVHLPEGFLEKTRGYGMVVPWAPQAEVLAHEAVGAFVTHCGWNSLWESVAGGVPLICRPFFGDQRLNGRMVEDVLEIGVRIEGGVFTKSGLMSCFDQILSQEKGKKLRENLRALRETADRAVGPKGSSTENFITLVDLVSKPKDV |
| 5472 | sp|O60701|UGDH\_HUMAN | MFEIKKICCIGAGYVGGPTCSVIAHMCPEIRVTVVDVNESRINAWNSPTLPIYEPGLKEVVESCRGKNLFFSTNIDDAIKEADLVFISVNTPTKTYGMGKGRAADLKYIEACARRIVQNSNGYKIVTEKSTVPVRAAESIRRIFDANTKPNLNLQVLSNPEFLAEGTAIKDLKNPDRVLIGGDETPEGQRAVQALCAVYEHWVPREKILTTNTWSSELSKLAANAFLAQRISSINSISALCEATGADVEEVATAIGMDQRIGNKFLKASVGFGGSCFQKDVLNLVYLCEALNLPEVARYWQQVIDMNDYQRRRFASRIIDSLFNTVTDKKIAILGFAFKKDTGDTRESSSIYISKYLMDEGAHLHIYDPKVPREQIVVDLSHPGVSEDDQVSRLVTISKDPYEACDGAHAVVICTEWDMFKELDYERIHKKMLKPAFIFDGRRVLDGLHNELQTIGFQIETIGKKVSSKRIPYAPSGEIPKFSLQDPPNKKPKV |
| 5473 | sp|Q5TAP6|UT14C\_HUMAN | MNVNQVAENLALSHQEELVDLPKNYPLSENEDEGDSDGERKHQKLLEAIISLDGKNRRKLAERSEASLKVSEFSVSSEGSGEKLGLADLLEPVKTSSSLATVKKQLNRVKSKKVVELPLNKEKIEQIHREVAFSKTSQVLSKWDPIILKNQQAEQLVFPLGKEQPAIAPIEHALSGWKARTPLEQEIFNLLHKNKQPVTDPLLTPMEKASLQAMSLEEAKMHRAELQRARALQSYYEAKARKEKKIKSKKYHKVVKKGKAKKALKEFEQLQKVNPTVALEEMEKIENARMMERMSLKHQNSGKWAKSKAIMAKYDLEARQAMQEQLAKNKELTQKLQVASESEEEEGGTEVEELLVPHVANEVQMNVDGPNPWMFRSCTSDTKEAATQEDPEQVPELAAHEVSASEAEERPVAEEEILLREFEERQSLRKRSELNQDAEPASSQETKDSSSQEVLSELRALSQKLKEKHQSRKQKASSEGTVPQVQREEPAPEEAEPLLLQRSERVQTLEELEELGKEDCFQNKELPRPVLEGQQSERTPNNRPDAPKEKKEKEQLINLQNFLTTQSPSVRSLAVPTIIEELEDEEERDQRQMIKEAFAGDDVIRDFLKEKREAVEASKPKDVDLTLPGWGEWGGVGLKPSAKKRRQFLIKAPEGPPRKDKNLPNVIISEKRNIHAAAHQVQVLPYPFTHHRQFERTIQTPIGSTWNTQRAFQKLTTPKVVTKPGHIIKPIKAEDVGYQSSSRSDLPVIQRNPKRITTRHNKEEKL |
| 5474 | sp|Q62770|UN13C\_RAT | MVASLFKSLILAYIHKLCKGMFTKKLGNTTKKKENRQQNKDQDFPTAGHTKPPKLSNALKSTVKKIAKCSSTRNFSVEDEEGHKDFSLSPTFSYRVAIANGLQTAVTNSDEDLLQELSSIESSYSESFNELRSSTENQVQSTHTMPVRRNRKSSSSLAPSEGSSDGERTLHTLKLGALRKLRKWKKSQECVSSDSELSTVKKTWGIRSKSLDRTARNPKTNVLEPGFSSSGCISQTHDVMEMIFKELQGISQIETELSELRGHVNALKYSIDEISSSVEVVQSEIEQLRTGFVQARRETRDIHDYIKHLGHMGSKVSLRFLNVPEERHEYVESVVYQILVDKMGFSDVPNAIKIEFAQRIGQQRDCPNAKPRPILVYFETPQQRDSVLKKSYKLKGTGIAISTDILTYDIRERKEKGVLPSSQTYESMDMKLSTPEPKAKKNAWLSPNDSDRELESDLSRSSYADSPAKGSSSKSSSKSHSARSKNKAANSRTSQKSDYNKRPSKPPASEKPTPHYVEATPLWHSQSDFFTPKLSRSESDFSKLCQSYSEDFSESQFFCRTNGSSLLSSSDRELWQRKQEGMTALYHSPQDQGLDGNIPTVPGQGEIENTETVDSGMSNSVVCASGDRSNYSGSQLSLHEDLSPWKEWNQAGHGTDGLDSSTQEPFDYDTNSLSDQQLDMSSKDLDDLGKCHSDLQDDSESYDLTQDDNSSPCPGLDNEPQGQWVGQYDSYQKTNSNDLYPNQSHPSMMYRSQSELQSDDSEAAQPKSWHSRLSIDLSDKTFKFPKFGSTLQRAKSALEVVWNKSTQSLSGCEDSGSSLMGRFRTLSQSTANESSTTLDSDIYTEPYYYKAEEEEDYCEPVADSETDYVEVMEQVLAKLENRTSVTEVDEHIKEYDHPSYETPYETPQDEGYDGQADDIISEGELETLNEPAVEMELVEDESQNLPVEPPEVMKPKRIRPSFKEAALRAYKKQMAELEEKILAGDSSSVDEKARIVSGNDLDASKFSALQVFGGAGRGLYGIDSMPDLRRKKTLPIVRDVAMTLAARKSGLSLAMVIRTSLNNEELKMHVFRKTLQALIYPISSTTPHNFEVWTATTPTYCYECEGLLWGIARQGMKCLECGVKCHEKCQDLLNADCLQRAAEKSSKHGAEDKTQTIITAMKERMKIRERNRPEVFEVIQEMFQISKEDFVQYTKAAKQSVLDGTSKWSAKITITVVSAQGLQAKDKTGSSDPYVTVQVGKNKRRTKTIFGNLNPVWDEKFYFECHNSTDRIKVRVWDEDDDIKSRVKQHFKKESDDFLGQTIVEVRTLSGEMDVWYNLEKRTDKSAVSGAIRLKINVEIKGEEKVAPYHIQYTCLHENLFHYLTEVKSNGSVKIPEVKGDEAWKVFFDDASQEIVDEFAMRYGVESIYQAMTHFSCLSSKYMCPGVPAVMSALLANINAFYAHTTVSTNVQVSASDRFAATNFGREKFIKLLDQLHNSLRIDLSKYRENFPASNSERLQDLKSTVDLLTSITFFRMKVLELQSPPKASAVVKDCVRACLDSTYKYIFDNCHELYSQLIDPSKKQDVPREEQGPTTKNLDFWPQLITLMVTIIDEDKTAYTPVLNQFPQELNMGKISAEIMWSLFALDMKYALEEHEKQRLCKSTDYMNLHFKVKWFYNEYVRELPAFKDAVPEYSLWFEPFVMQWLDENEDVSMEFLHGALGRDKKDGFQQTSDHALFSCSVVDVFAQLNQSFEIIKKLECPNPEALSHLMRRFAKTINKVLVQYAAIVSSDFSSYCDKETVPCILMNNIQQLRVQLEKMFESMGGKELDPEASTILKELQIKLNGVLDALSVTYGESFQLVIEECIKQMGAELNQMRANGNSAANKNNAAMDAEIVLRPLMDFLDKILSLSAKICEKTVLKRVLKELWKLVLNKIEKQIVLPPLTDQTGPQMIFIAAKELGQLSKLKEHMIRDDAKGLTPRQCAIMEVVLATIKQYFHAGGNGLKKNFLEKSPDLHSLRYALSLYTQTTDALIKKFIETQGSQSRSSKDAVGQISVHVDVTTTPGTGEHKVTVKVIAINDLNWQTTTMFRPFVEVCMLGPSLGDKKRKQGTKTKSNTWSPKYNETFQFILGNENRPGAYELHLSVKDYCFAREDRIIGMTVIQLQNIAEKGSYGAWYPLLKNLSMDETGLTILRILSQRTSDDVAKEFVRLKSETRSIDESA |
| 5475 | sp|P08430|UD16\_RAT | MACLLPAARLPAGFLFLVLWGSVLGDKLLVVPQDGSHWLSMKEIVEHLSERGHDIVVLVPEVNLLLGESKYYRRKSFPVPYNLEELRTRYRSFGNNHFAASSPLMAPLREYRNNMIVIDMCFFSCQSLLKDSATLSFLRENQFDALFTDPAMPCGVILAEYLKLPSIYLFRGFPCSLEHIGQSPSPVSYVPRFYTKFSDHMTFPQRLANFIANILENYLYHCLYSKYEILASDLLKRDVSLPALHQNSLWLLRYDFVFEYPRPVMPNMIFIGGTNCKKKGNLSQEFEAYVNASGEHGIVVFSLGSMVSEIPEKKAMEIAEALGRIPQTLLWRYTGTRPSNLAKNTILVKWLPQNDLLGHPKARAFITHSGSHGIYEGICNGVPMVMMPLFGDQMDNAKRMETRGAGVTLNVLEMTADDLENALKTVINNKSYKENIMRLSSLHKDRPIEPLDLAVFWVEYVMRHKGAPHLRPAAHDLTWYQYHSLDVIGFLLAIVLTVVFIVYKSCAYGCRKCFGGKGRVKKSHKSKTH |
| 5476 | sp|Q9ZR03|UCRIA\_ARATH | MASSSLSPATQLGSSRSALMAMSSGLFVKPTKMNHQMVRKEKIGLRISCQASSIPADRVPDMEKRKTLNLLLLGALSLPTGYMLVPYATFFVPPGTGGGGGGTPAKDALGNDVVAAEWLKTHGPGDRTLTQGLKGDPTYLVVENDKTLATYGINAVCTHLGCVVPWNKAENKFLCPCHGSQYNAQGRVVRGPAPLSLALAHADIDEAGKVLFVPWVETDFRTGDAPWWS |
| 5477 | sp|P49728|UCRIA\_CHLRE | MAMLSSRRVAAPAKASAIRRSRVMPVVRAAAASSEVPDMNKRNIMNLILAGGAGLPITTLALGYGAFFVPPSSGGGGGGQAAKDALGNDIKAGEWLKTHLAGDRSLSQGLKGDPTYLIVTADSTIEKYGLNAVCTHLGCVVPWVAAENKFKCPCHGSQYNAEGKVVRGPAPLSLALAHCDVAESGLVTFSTWTETDFRTGLEPWWA |
| 5478 | sp|Q9Y487|VPP2\_HUMAN | MGSLFRSETMCLAQLFLQSGTAYECLSALGEKGLVQFRDLNQNVSSFQRKFVGEVKRCEELERILVYLVQEINRADIPLPEGEASPPAPPLKQVLEMQEQLQKLEVELREVTKNKEKLRKNLLELIEYTHMLRVTKTFVKRNVEFEPTYEEFPSLESDSLLDYSCMQRLGAKLGFVSGLINQGKVEAFEKMLWRVCKGYTIVSYAELDESLEDPETGEVIKWYVFLISFWGEQIGHKVKKICDCYHCHVYPYPNTAEERREIQEGLNTRIQDLYTVLHKTEDYLRQVLCKAAESVYSRVIQVKKMKAIYHMLNMCSFDVTNKCLIAEVWCPEADLQDLRRALEEGSRESGATIPSFMNIIPTKETPPTRIRTNKFTEGFQNIVDAYGVGSYREVNPALFTIITFPFLFAVMFGDFGHGFVMFLFALLLVLNENHPRLNQSQEIMRMFFNGRYILLLMGLFSVYTGLIYNDCFSKSVNLFGSGWNVSAMYSSSHPPAEHKKMVLWNDSVVRHNSILQLDPSIPGVFRGPYPLGIDPIWNLATNRLTFLNSFKMKMSVILGIIHMTFGVILGIFNHLHFRKKFNIYLVSIPELLFMLCIFGYLIFMIFYKWLVFSAETSRVAPSILIEFINMFLFPASKTSGLYTGQEYVQRVLLVVTALSVPVLFLGKPLFLLWLHNGRSCFGVNRSGYTLIRKDSEEEVSLLGSQDIEEGNHQVEDGCREMACEEFNFGEILMTQVIHSIEYCLGCISNTASYLRLWALSLAHAQLSDVLWAMLMRVGLRVDTTYGVLLLLPVIALFAVLTIFILLIMEGLSAFLHAIRLHWVEFQNKFYVGAGTKFVPFSFSLLSSKFNNDDSVA |
| 5479 | sp|Q96RL7|VP13A\_HUMAN | MVFESVVVDVLNRFLGDYVVDLDTSQLSLGIWKGAVALKNLQIKENALSQLDVPFKVKVGHIGNLKLIIPWKNLYTQPVEAVLEEIYLLIVPSSRIKYDPLKEEKQLMEAKQQELKRIEEAKQKVVDQEQHLPEKQDTFAEKLVTQIIKNLQVKISSIHIRYEDDITNRDKPLSFGISLQNLSMQTTDQYWVPCLHDETEKLVRKLIRLDNLFAYWNVKSQMFYLSDYDNSLDDLKNGIVNENIVPEGYDFVFRPISANAKLVMNRRSDFDFSAPKINLEIELHNIAIEFNKPQYFSIMELLESVDMMAQNLPYRKFKPDVPLHHHAREWWAYAIHGVLEVNVCPRLWMWSWKHIRKHRQKVKQYKELYKKKLTSKKPPGELLVSLEELEKTLDVFNITIARQTAEVEVKKAGYKIYKEGVKDPEDNKGWFSWLWSWSEQNTNEQQPDVQPETLEEMLTPEEKALLYEAIGYSETAVDPTLLKTFEALKFFVHLKSMSIVLRENHQKPELVDIVIEEFSTLIVQRPGAQAIKFETKIDSFHITGLPDNSEKPRLLSSLDDAMSLFQITFEINPLDETVSQRCIIEAEPLEIIYDARTVNSIVEFFRPPKEVHLAQLTAATLTKLEEFRSKTATGLLYIIETQKVLDLKINLKASYIIVPQDGIFSPTSNLLLLDLGHLKVTSKSRSELPDVKQGEANLKEIMDRAYDSFDIQLTSVQLLYSRVGDNWREARKLSVSTQHILVPMHFNLELSKAMVFMDVRMPKFKIYGKLPLISLRISDKKLQGIMELIESIPKPEPVTEVSAPVKSFQIQTSTSLGTSQISQKIIPLLELPSVSEDDSEEEFFDAPCSPLEEPLQFPTGVKSIRTRKLQKQDCSVNMTTFKIRFEVPKVLIEFYHLVGDCELSVVEILVLGLGAEIEIRTYDLKANAFLKEFCLKCPEYLDENKKPVYLVTTLDNTMEDLLTLEYVKAEKNVPDLKSTYNNVLQLIKVNFSSLDIHLHTEALLNTINYLHNILPQSEEKSAPVSTTETEDKGDVIKKLALKLSTNEDIITLQILAELSCLQIFIQDQKCNISEIKIEGLDSEMIMRPSETEINAKLRNIIVLDSDITAIYKKAVYITGKEVFSFKMVSYMDATAGSAYTDMNVVDIQVNLIVGCIEVVFVTKFLYSILAFIDNFQAAKQALAEATVQAAGMAATGVKELAQRSSRMALDINIKAPVVVIPQSPVSENVFVADFGLITMTNTFHMITESQSSPPPVIDLITIKLSEMRLYRSRFINDAYQEVLDLLLPLNLEVVVERNLCWEWYQEVPCFNVNAQLKPMEFILSQEDITTIFKTLHGNIWYEKDGSASPAVTKDQYSATSGVTTNASHHSGGATVVTAAVVEVHSRALLVKTTLNISFKTDDLTMVLYSPGPKQASFTDVRDPSLKLAEFKLENIISTLKMYTDGSTFSSFSLKNCILDDKRPHVKKATPRMIGLTVGFDKKDMMDIKYRKVRDGCVTDAVFQEMYICASVEFLQTVANVFLEAYTTGTAVETSVQTWTAKEEVPTQESVKWEINVIIKNPEIVFVADMTKNDAPALVITTQCEICYKGNLENSTMTAAIKDLQVRACPFLPVKRKGKITTVLQPCDLFYQTTQKGTDPQVIDMSVKSLTLKVSPVIINTMITITSALYTTKETIPEETASSTAHLWEKKDTKTLKMWFLEESNETEKIAPTTELVPKGEMIKMNIDSIFIVLEAGIGHRTVPMLLAKSRFSGEGKNWSSLINLHCQLELEVHYYNEMFGVWEPLLEPLEIDQTEDFRPWNLGIKMKKKAKMAIVESDPEEENYKVPEYKTVISFHSKDQLNITLSKCGLVMLNNLVKAFTEAATGSSADFVKDLAPFMILNSLGLTISVSPSDSFSVLNIPMAKSYVLKNGESLSMDYIRTKDNDHFNAMTSLSSKLFFILLTPVNHSTADKIPLTKVGRRLYTVRHRESGVERSIVCQIDTVEGSKKVTIRSPVQIRNHFSVPLSVYEGDTLLGTASPENEFNIPLGSYRSFIFLKPEDENYQMCEGIDFEEIIKNDGALLKKKCRSKNPSKESFLINIVPEKDNLTSLSVYSEDGWDLPYIMHLWPPILLRNLLPYKIAYYIEGIENSVFTLSEGHSAQICTAQLGKARLHLKLLDYLNHDWKSEYHIKPNQQDISFVSFTCVTEMEKTDLDIAVHMTYNTGQTVVAFHSPYWMVNKTGRMLQYKADGIHRKHPPNYKKPVLFSFQPNHFFNNNKVQLMVTDSELSNQFSIDTVGSHGAVKCKGLKMDYQVGVTIDLSSFNITRIVTFTPFYMIKNKSKYHISVAEEGNDKWLSLDLEQCIPFWPEYASSKLLIQVERSEDPPKRIYFNKQENCILLRLDNELGGIIAEVNLAEHSTVITFLDYHDGAATFLLINHTKNELVQYNQSSLSEIEDSLPPGKAVFYTWADPVGSRRLKWRCRKSHGEVTQKDDMMMPIDLGEKTIYLVSFFEGLQRIILFTEDPRVFKVTYESEKAELAEQEIAVALQDVGISLVNNYTKQEVAYIGITSSDVVWETKPKKKARWKPMSVKHTEKLEREFKEYTESSPSEDKVIQLDTNVPVRLTPTGHNMKILQPHVIALRRNYLPALKVEYNTSAHQSSFRIQIYRIQIQNQIHGAVFPFVFYPVKPPKSVTMDSAPKPFTDVSIVMRSAGHSQISRIKYFKVLIQEMDLRLDLGFIYALTDLMTEAEVTENTEVELFHKDIEAFKEEYKTASLVDQSQVSLYEYFHISPIKLHLSVSLSSGREEAKDSKQNGGLIPVHSLNLLLKSIGATLTDVQDVVFKLAFFELNYQFHTTSDLQSEVIRHYSKQAIKQMYVLILGLDVLGNPFGLIREFSEGVEAFFYEPYQGAIQGPEEFVEGMALGLKALVGGAVGGLAGAASKITGAMAKGVAAMTMDEDYQQKRREAMNKQPAGFREGITRGGKGLVSGFVSGITGIVTKPIKGAQKGGAAGFFKGVGKGLVGAVARPTGGIIDMASSTFQGIKRATETSEVESLRPPRFFNEDGVIRPYRLRDGTGNQMLQVMENGRFAKYKYFTHVMINKTDMLMITRRGVLFVTKGTFGQLTCEWQYSFDEFTKEPFIVHGRRLRIEAKERVKSVFHAREFGKIINFKTPEDARWILTKLQEAREPSPSL |
| 5480 | sp|Q5AG40|VPS4\_CANAL | MSGASDFLSKGIDLVQKAIDADTATRYEEAYKLYYNGLDYLMLAIKYEKNPKSKELVKSKFTEYLTRAEQLKDHLEKQAQNKSTAESSVNGSTKAKKSNGDGNGSGDDNDDADTKKLRGALAGAILSEKPNVKWSDIAGLDAAKEALKEAVILPVKFPQLFVGNRKPTSGILLYGPPGTGKSYLAKAVATEANSTFFSVSSSDLVSKWMGESERLVKQLFTMARENKPSIIFIDEVDALCGPRGEGESEASRRIKTELLVQMNGVGNDSQGVLVLGATNIPWQLDAAVRRRFERRIYIALPDVEARTRMFEINIGDVPCECTPHDYRTLAEMTDGYSGHDVAVVVRDALMQPIRKIQQATHFKPVIDETDGKEKLTPCSPGDEGAREMNWMDLATDELKEPPLTIKDFIKAIKNNRPTVNEADIAQHVKFTEDFGQEGN |
| 5481 | sp|P49754|VPS41\_HUMAN | MAEAEEQETGSLEESTDESEEEESEEEPKLKYERLSNGVTEILQKDAASCMTVHDKFLALGTHYGKVYLLDVQGNITQKFDVSPVKINQISLDESGEHMGVCSEDGKVQVFGLYSGEEFHETFDCPIKIIAVHPHFVRSSCKQFVTGGKKLLLFERSWMNRWKSAVLHEGEGNIRSVKWRGHLIAWANNMGVKIFDIISKQRITNVPRDDISLRPDMYPCSLCWKDNVTLIIGWGTSVKVCSVKERHASEMRDLPSRYVEIVSQFETEFYISGLAPLCDQLVVLSYVKEISEKTEREYCARPRLDIIQPLSETCEEISSDALTVRGFQENECRDYHLEYSEGESLFYIVSPRDVVVAKERDQDDHIDWLLEKKKYEEALMAAEISQKNIKRHKILDIGLAYINHLVERGDYDIAARKCQKILGKNAALWEYEVYKFKEIGQLKAISPYLPRGDPVLKPLIYEMILHEFLESDYEGFATLIREWPGDLYNNSVIVQAVRDHLKKDSQNKTLLKTLAELYTYDKNYGNALEIYLTLRHKDVFQLIHKHNLFSSIKDKIVLLMDFDSEKAVDMLLDNEDKISIKKVVEELEDRPELQHVYLHKLFKRDHHKGQRYHEKQISLYAEYDRPNLLPFLRDSTHCPLEKALEICQQRNFVEETVYLLSRMGNSRSALKMIMEELHDVDKAIEFAKEQDDGELWEDLILYSIDKPPFITGLLNNIGTHVDPILLIHRIKEGMEIPNLRDSLVKILQDYNLQILLREGCKKILVADSLSLLKKMHRTQMKGVLVDEENICESCLSPILPSDAAKPFSVVVFHCRHMFHKECLPMPSMNSAAQFCNICSAKNRGPGSAILEMKK |
| 5482 | sp|O15240|VGF\_HUMAN | MKALRLSASALFCLLLINGLGAAPPGRPEAQPPPLSSEHKEPVAGDAVPGPKDGSAPEVRGARNSEPQDEGELFQGVDPRALAAVLLQALDRPASPPAPSGSQQGPEEEAAEALLTETVRSQTHSLPAPESPEPAAPPRPQTPENGPEASDPSEELEALASLLQELRDFSPSSAKRQQETAAAETETRTHTLTRVNLESPGPERVWRASWGEFQARVPERAPLPPPAPSQFQARMPDSGPLPETHKFGEGVSSPKTHLGEALAPLSKAYQGVAAPFPKARRPESALLGGSEAGERLLQQGLAQVEAGRRQAEATRQAAAQEERLADLASDLLLQYLLQGGARQRGLGGRGLQEAAEERESAREEEEAEQERRGGEERVGEEDEEAAEAEAEAEEAERARQNALLFAEEEDGEAGAEDKRSQEETPGHRRKEAEGTEEGGEEEDDEEMDPQTIDSLIELSTKLHLPADDVVSIIEEVEEKRKRKKNAPPEPVPPPRAAPAPTHVRSPQPPPPAPAPARDELPDWNEVLPPWDREEDEVYPPGPYHPFPNYIRPRTLQPPSALRRRHYHHALPPSRHYPGREAQARRAQEEAEAEERRLQEQEELENYIEHVLLRRP |
| 5483 | sp|P59015|VPS18\_DANRE | MASILDQYEDSQNIRQHSRMSTANIGITHSGFVNVRLEEEKPIFTKQRIDFSPPEKINQFSVCNNQLCMSLGKDTLLRIDLGKPDQPNQIELGRKDDSKVHRLFLDPTGSHLVICLTTNECVYLNRNTQKVRGLSRWRGHLIESIGWNKLIGSETNTGPILVGTSQGIIFEAEISASEGSLFNTNPDQYFRQVHYLEEDGKPAPVCCLEVERGLETKYFIIATTRKRLFQFVGKLAEGSEQQGFSSIFAQNQDLLPSFQEFPVNMGYSEITFYTSKLRSRPKTFAWMMGNGVLYGQLDYVRPDSLLSDVQVWEYTQDIDLNFVKPISIVLTQFHFLLLLPDRVRGICTLNGQVVHEDVFPEKFGTLQKMIKDPITGLVWIYTEKAVFRYHIQKEARDVWQMYMNMNKFDLAKEYCKDRPECLDMVLAKEAEHCFQNKRYLESAKCYALTQNYFEEIALKFIEAKQEEALKEFLIKKLVNLKPSEKTQITLLVTWLTELYLNRLGQLEADEGKQHLFLETREEFRTFLKSPKHKDCFYNNRSTIYDLLASHGDVDNMVYFSVIMQDYERVISHYCQHDDYSAALDVLSKHCDDKLFYKFSPVLMQHIPKKVVDAWIQMGNRLDPKNLIPALVNYSQMGSMQQINETIRYMEFCVYELDVKEEAIHNYLLSLYAKHKPDALLWYLEQAGTHVSDIHYDLKYALRLCSEHGYLQACVLVYKIMELYEEAVDLALKVDVDLAKSCADLPEDDEELRKKLWLKIARHVVQEEKDVKKAMNCLSSCNLLKIEDILPFFPDFVTIDHFKEAICSSLEEYNKHIEELKQEMEEATESAKRIREDIQEMRNKYGVVESQEKCATCDFPLLNRPFYLFLCGHMFHYDCLLQEVIPHLSVYKQNKLDELQKKLAATTQTTKARHKPREEDTVSLGKGQGSREQIKSDIDDIIACECVYCGELMIKSIDKPFIDPQKFDQEMSSWL |
| 5484 | sp|Q8N1B4|VPS52\_HUMAN | MAAAATMAAAARELVLRAGTSDMEEEEGPLAGGPGLQEPLQLGELDITSDEFILDEVDVHIQANLEDELVKEALKTGVDLRHYSKQVELELQQIEQKSIRDYIQESENIASLHNQITACDAVLERMEQMLGAFQSDLSSISSEIRTLQEQSGAMNIRLRNRQAVRGKLGELVDGLVVPSALVTAILEAPVTEPRFLEQLQELDAKAAAVREQEARGTAACADVRGVLDRLRVKAVTKIREFILQKIYSFRKPMTNYQIPQTALLKYRFFYQFLLGNERATAKEIRDEYVETLSKIYLSYYRSYLGRLMKVQYEEVAEKDDLMGVEDTAKKGFFSKPSLRSRNTIFTLGTRGSVISPTELEAPILVPHTAQRGEQRYPFEALFRSQHYALLDNSCREYLFICEFFVVSGPAAHDLFHAVMGRTLSMTLKHLDSYLADCYDAIAVFLCIHIVLRFRNIAAKRDVPALDRYWEQVLALLWPRFELILEMNVQSVRSTDPQRLGGLDTRPHYITRRYAEFSSALVSINQTIPNERTMQLLGQLQVEVENFVLRVAAEFSSRKEQLVFLINNYDMMLGVLMERAADDSKEVESFQQLLNARTQEFIEELLSPPFGGLVAFVKEAEALIERGQAERLRGEEARVTQLIRGFGSSWKSSVESLSQDVMRSFTNFRNGTSIIQGALTQLIQLYHRFHRVLSQPQLRALPARAELINIHHLMVELKKHKPNF |
| 5485 | sp|Q7JXV9|VPS25\_DROME | MAEFQWPWEYTFPPFFTLQPHEETRQQQLKVWTDLFLKYLRHTNRFTLSIGDQNSPLFHNEALKRRLSPELVLAILGELERSGHANPLDKRRQEWQVYWFTLEEYGNMVYDWVQETGQTNTICTLYEIASGENTSHLDFYGVDEAVLLSALRLLEEKGRCELIEMDGSHGVKFF |
| 5486 | sp|Q96RU2|UBP28\_HUMAN | MTAELQQDDAAGAADGHGSSCQMLLNQLREITGIQDPSFLHEALKASNGDITQAVSLLTDERVKEPSQDTVATEPSEVEGSAANKEVLAKVIDLTHDNKDDLQAAIALSLLESPKIQADGRDLNRMHEATSAETKRSKRKRCEVWGENPNPNDWRRVDGWPVGLKNVGNTCWFSAVIQSLFQLPEFRRLVLSYSLPQNVLENCRSHTEKRNIMFMQELQYLFALMMGSNRKFVDPSAALDLLKGAFRSSEEQQQDVSEFTHKLLDWLEDAFQLAVNVNSPRNKSENPMVQLFYGTFLTEGVREGKPFCNNETFGQYPLQVNGYRNLDECLEGAMVEGDVELLPSDHSVKYGQERWFTKLPPVLTFELSRFEFNQSLGQPEKIHNKLEFPQIIYMDRYMYRSKELIRNKRECIRKLKEEIKILQQKLERYVKYGSGPARFPLPDMLKYVIEFASTKPASESCPPESDTHMTLPLSSVHCSVSDQTSKESTSTESSSQDVESTFSSPEDSLPKSKPLTSSRSSMEMPSQPAPRTVTDEEINFVKTCLQRWRSEIEQDIQDLKTCIASTTQTIEQMYCDPLLRQVPYRLHAVLVHEGQANAGHYWAYIYNQPRQSWLKYNDISVTESSWEEVERDSYGGLRNVSAYCLMYINDKLPYFNAEAAPTESDQMSEVEALSVELKHYIQEDNWRFEQEVEEWEEEQSCKIPQMESSTNSSSQDYSTSQEPSVASSHGVRCLSSEHAVIVKEQTAQAIANTARAYEKSGVEAALSEVMLSPAMQGVILAIAKARQTFDRDGSEAGLIKAFHEEYSRLYQLAKETPTSHSDPRLQHVLVYFFQNEAPKRVVERTLLEQFADKNLSYDERSISIMKVAQAKLKEIGPDDMNMEEYKKWHEDYSLFRKVSVYLLTGLELYQKGKYQEALSYLVYAYQSNAALLMKGPRRGVKESVIALYRRKCLLELNAKAASLFETNDDHSVTEGINVMNELIIPCIHLIINNDISKDDLDAIEVMRNHWCSYLGQDIAENLQLCLGEFLPRLLDPSAEIIVLKEPPTIRPNSPYDLCSRFAAVMESIQGVSTVTVK |
| 5487 | sp|Q29261|VILI\_PIG | MTKLNAQVKGSLNVTTPGVQIWRIEAMQMVPVSSSTYGSFFDGDCYIVLAIHKTGSNLSYDIHYWIGQDSSQDEQGAAAIYTTLMDDFLKGRAVQHREVQGNESEAFRGYFKQGIVIRKGGVASGMKKVETNSYDIQRLLHVKGKRNVVAGEVEMSWKSFNRGDVFLLDLGKLIIQWNGPESNRMERLRGMTLAKEIRDQERGGRTYVGVVDGEDEKASPQLMEIMNYVLGQRKELKAAVPDTVVEPALKAALKLYHVSDSEGKVVVREVATRPLTQDLLSHEDCYILDQGGLKIYVWKGKNANPQEKKEAMNQALNFIKAKQYPPSTQVEVQNDGAESAVFQQLFQKWTVPNQTSGLGKTHTVGSVAKVEQVKFDATSMHVQPQVAAQQKMVDDGSGEVEIWRIENLDLVPVESKWVGHFYGGDCYLLLYTYLIGEKQHYLLYIWQGSQASQDEITASAYQAVILDQKYNNEPVQIRVPMGKEPPHLMSIFKGRMVVYQGGTSRANSTEPVPSTRLFQVRGTSVNNTKAFEVPARATSLNSNDIFVLKTQSCCYLWCGKGCSGDEREMAKMVADTISRTEKQVVVEGQEPANFWVALGGKAPYASSKRLQEETLVITPRLFECSNQTGRFLATEIPDFNQDDLEEDDVFLLDVWDQVFFWIGKNANEDEKKAAAVTAQEYLKTHPSGRDPETPIIVVKQGYEPPTFTGWFLAWDPFKWSDSKSYEDLKAELGNSGDWSQITAEIKNPKPDVFNANTNLSSGPLPIFPLEQLVNKPAEELPQGVDPSRREEHLSIEDFTKALGMTPAAFSALPRWKQQNLKKEKGLF |
| 5488 | sp|P36017|VPS21\_YEAST | MNTSVTSIKLVLLGEAAVGKSSIVLRFVSNDFAENKEPTIGAAFLTQRVTINEHTVKFEIWDTAGQERFASLAPMYYRNAQAALVVYDVTKPQSFIKARHWVKELHEQASKDIIIALVGNKIDMLQEGGERKVAREEGEKLAEEKGLLFFETSAKTGENVNDVFLGIGEKIPLKTAEEQNSASNERESNNQRVDLNAANDGTSANSACSC |
| 5489 | sp|P03093|VP2\_SV40 | MGAALTLLGDLIATVSEAAAATGFSVAEIAAGEAAAAIEVQLASVATVEGLTTSEAIAAIGLIPQAYAVISGAPAAIAGFAALLQTVTGVSAVAQVGYRFFSDWDHKVSTVGLYQQPGMAVDLYRPDDYYDILFPGVQTFVHSVQYLDPRHWGPTLFNAISQAFWRVIQNDIPRLTSQELERRTQRYLRDSLARFLEETTWTVINAPVNWYNSLQDYYSTLSPIRPTMVRQVANREGLQISFGHTYDNIDEADSIQQVTERWEAQSQSPNVQSGEFIEKFEAPGGANQRTAPQWMLPLLLGLYGSVTSALKAYEDGPNKKKRKLSRGSSQKTKGTSASAKARHKRRNRSSRS |
| 5490 | sp|Q66798|VGP\_EBOSM | MEGLSLLQLPRDKFRKSSFFVWVIILFQKAFSMPLGVVTNSTLEVTEIDQLVCKDHLASTDQLKSVGLNLEGSGVSTDIPSATKRWGFRSGVPPQVVSYEAGEWAENCYNLEIKKPDGSECLPPPPDGVRGFPRCRYVHKAQGTGPCPGDYAFHKDGAFFLYDRLASTVIYRGVNFAEGVIAFLILAKPKETFLQSPPIREAANYTENTSSYYATSYLEYEIENFGAQHSTTLFKINNNTFVLLDRPHTPQFLFQLNDTIQLHQQLSNTTGKLIWTLDANINADIGEWAFWENKKNLSEQLRGEELSFETLSLNETEDDDATSSRTTKGRISDRATRKYSDLVPKDSPGMVSLHVPEGETTLPSQNSTEGRRVDVNTQETITETTATIIGTNGNNMQISTIGTGLSSSQILSSSPTMAPSPETQTSTTYTPKLPVMTTEEPTTPPRNSPGSTTEAPTLTTPENITTAVKTVWAQESTSNGLITSTVTGILGSLGLRKRSRRQVNTRATGKCNPNLHYWTAQEQHNAAGIAWIPYFGPGAEGIYTEGLMHNQNALVCGLRQLANETTQALQLFLRATTELRTYTILNRKAIDFLLRRWGGTCRILGPDCCIEPHDWTKNITDKINQIIHDFIDNPLPNQDNDDNWWTGWRQWIPAGIGITGIIIAIIALLCVCKLLC |
| 5491 | sp|Q66799|VGP\_EBORR | MGSGYQLLQLPRERFRKTSFLVWVIILFQRAISMPLGIVTNSTLKATEIDQLVCRDKLSSTSQLKSVGLNLEGNGIATDVPSATKRWGFRSGVPPKVVSYEAGEWAENCYNLEIKKSDGSECLPLPPDGVRGFPRCRYVHKVQGTGPCPGDLAFHKNGAFFLYDRLASTVIYRGTTFAEGVVAFLILSEPKKHFWKATPAHEPVNTTDDSTSYYMTLTLSYEMSNFGGNESNTLFKVDNHTYVQLDRPHTPQFLVQLNETLRRNNRLSNSTGRLTWTLDPKIEPDVGEWAFWETKKNFSQQLHGENLHFQILSTHTNNSSDQSPAGTVQGKISYHPPANNSELVPTDSPPVVSVLTAGRTEEMSTQGLTNGETITGFTANPMTTTIAPSPTMTSEVDNNVPSEQPNNTASIEDSPPSASNETIYHSEMDPIQGSNNSAQSPQTKTTPAPTTSPMTQDPQETANSSKPGTSPGSAAGPSQPGLTINTVSKVADSLSPTRKQKRSVRQNTANKCNPDLYYWTAVDEGAAVGLAWIPYFGPAAEGIYIEGVMHNQNGLICGLRQLANETTQALQLFLRATTELRTYSLLNRKAIDFLLQRWGGTCRILGPSCCIEPHDWTKNITDEINQIKHDFIDNPLPDHGDDLNLWTGWRQWIPAGIGIIGVIIAIIALLCICKILC |
| 5492 | sp|Q5XUW8|VM2IA\_BOTIN | MIQVLLVTICLAAFPYQGSSIILESGNVNDYEVVYARKVTELPKGAVQQKYEDAMQYEFKVNGEPVVLHLEKNKGLFSEDYSETHYSPDGRQIITYPPFEDHCYYHGRIENDADSTASISACNGLKGHFKLQGETYLIEPLKLPDSEAHAVYKYENVEKEDEAPKMCGVTETNWESYEPIEKASQSNLTPEQQKFSPRYIELAVVADHGMFTKYNSNLNTIRTRVHEMVNTLNGFFRSVNVDASLANLEVWSKKDLIKVEKDSSKTLTSFGEWRERDLLPRISHDHAQLLTTIVFDQQTIGLAYTAGMCDPRQSVAVVMDHSKKNLRVAVTMAHELGHNLGMDHDDTCTCGAKSCIMASTISKGLSFEFSKCSQNQYQTYLTDHNPQCILNKPLTTVSGNELLEAGEECDCGAPENPCCDAATCKLRPRAQCAEGLCCDQCRFKGAGKICRRARGDNPDDRCTGQSADCPRNRFHA |
| 5493 | sp|Q66810|VGP\_TAFVC | MGASGILQLPRERFRKTSFFVWVIILFHKVFSIPLGVVHNNTLQVSDIDKFVCRDKLSSTSQLKSVGLNLEGNGVATDVPTATKRWGFRAGVPPKVVNYEAGEWAENCYNLAIKKVDGSECLPEAPEGVRDFPRCRYVHKVSGTGPCPGGLAFHKEGAFFLYDRLASTIIYRGTTFAEGVIAFLILPKARKDFFQSPPLHEPANMTTDPSSYYHTTTINYVVDNFGTNTTEFLFQVDHLTYVQLEARFTPQFLVLLNETIYSDNRRSNTTGKLIWKINPTVDTSMGEWAFWENKKNFTKTLSSEELSFVPVPETQNQVLDTTATVSPPISAHNHAGEDHKELVSEDSTPVVQMQNIKGKDTMPTTVTGVPTTTPSPFPINARNTDHTKSFIGLEGPQEDHSTTQPAKTTSQPTNSTESTTLNPTSEPSSRGTGPSSPTVPNTTESHAELGKTTPTTLPEQHTAASAIPRAVHPDELSGPGFLTNTIRGVTNLLTGSRRKRRDVTPNTQPKCNPNLHYWTALDEGAAIGLAWIPYFGPAAEGIYTEGIMENQNGLICGLRQLANETTQALQLFLRATTELRTFSILNRKAIDFLLQRWGGTCHILGPDCCIEPQDWTKNITDKIDQIIHDFVDNNLPNQNDGSNWWTGWKQWVPAGIGITGVIIAIIALLCICKFML |
| 5494 | sp|Q94918|VEIN\_DROME | MYAQHLRKWSLKTKKQLMPLILLIISYMLLLNTCVLSSSATTQQQQQQQQQQQHLPRLWEGSAEESSYYIPLSSDNGSGSSESSAESGSSSSRSSSNNIDNNILSRLLSLNSNSLSSRSNVKLKPATVFDAGSSTPAQQEQHVAAVPEQQQQQQQQQQSMQKVPNTLINSQIYNLLYNGMPSEAASSKMRRHIQPSQLPHQPESRAQLPSNYSSRPAVRSYLIESYEMPESMLEDRSPEQAARSRRDGSNTNGSRQQQRTGHRQQLQQDKRDHRRQRQDQQKEQRQQQQQRQHKSGNKHQQQQQQRRKHQRKHQRYNRYCSARDPAQLAFAAPTVFQGVFKSMSADRRVNFSATMKVEKVYKQQHDLQLPTLVRLQFALSNSSGECDIYRERLMPRGMLRSGNDLQQASDISYMMFVQQTNPGNFTILGQPMRVTHLVVEAVETAVSENYTQNAEVTKIFSKPSKAIIKHGKKLRIVCEVSGQPPPKVTWFKDEKSINRKRNIYQFKHHKRRSELIVRSFNSSSDAGRYECRAKNKASKAIAKRRIMIKASPVHFPTDRSASGIPCNFDYCFHNGTCRMIPDINEVYCRCPTEYFGNRCENKWPDSRYFVAIYGQIHTLNNDY |
| 5495 | sp|P0C6S4|VM2TO\_ERIMA | QEEPCATGPCCRRCKFKRAGKVCRVARGDWNDDYCTGKSCDCPKNPWNG |
| 5496 | sp|P38606|VATA\_HUMAN | MDFSKLPKILDEDKESTFGYVHGVSGPVVTACDMAGAAMYELVRVGHSELVGEIIRLEGDMATIQVYEETSGVSVGDPVLRTGKPLSVELGPGIMGAIFDGIQRPLSDISSQTQSIYIPRGVNVSALSRDIKWDFTPCKNLRVGSHITGGDIYGIVSENSLIKHKIMLPPRNRGTVTYIAPPGNYDTSDVVLELEFEGVKEKFTMVQVWPVRQVRPVTEKLPANHPLLTGQRVLDALFPCVQGGTTAIPGAFGCGKTVISQSLSKYSNSDVIIYVGCGERGNEMSEVLRDFPELTMEVDGKVESIMKRTALVANTSNMPVAAREASIYTGITLSEYFRDMGYHVSMMADSTSRWAEALREISGRLAEMPADSGYPAYLGARLASFYERAGRVKCLGNPEREGSVSIVGAVSPPGGDFSDPVTSATLGIVQVFWGLDKKLAQRKHFPSVNWLISYSKYMRALDEYYDKHFTEFVPLRTKAKEILQEEEDLAEIVQLVGKASLAETDKITLEVAKLIKDDFLQQNGYTPYDRFCPFYKTVGMLSNMIAFYDMARRAVETTAQSDNKITWSIIREHMGDILYKLSSMKFKDPLKDGEAKIKSDYAQLLEDMQNAFRSLED |
| 5497 | sp|Q9P0L0|VAPA\_HUMAN | MASASGAMAKHEQILVLDPPTDLKFKGPFTDVVTTNLKLRNPSDRKVCFKVKTTAPRRYCVRPNSGIIDPGSTVTVSVMLQPFDYDPNEKSKHKFMVQTIFAPPNTSDMEAVWKEAKPDELMDSKLRCVFEMPNENDKLNDMEPSKAVPLNASKQDGPMPKPHSVSLNDTETRKLMEECKRLQGEMMKLSEENRHLRDEGLRLRKVAHSDKPGSTSTASFRDNVTSPLPSLLVVIAAIFIGFFLGKFIL |
| 5498 | sp|Q62463|V1AR\_MOUSE | MSFPRGSHDLPAGNSSPWWPLTTEGANSSREAAGLGEGGSPPGDVRNEELAKLEVTVLAVIFVVAVLGNSSVLLALHRTPRKTSRMHLFIRHLSLADLAVAFFQVLPQLCWDITYRFRGPDWLCRVVKHLQVFAMFASSYMLVVMTADRYIAVCHPLKTLQQPARRSRLMIAASWGLSFVLSIPQYFIFSVIEFEVNNGTKAQDCWATFIPPWGTRAYVTWMTSGVFVVPVIILGTCYGFICYHIWRNVRGKTASRQSKGGKGSGEAAGPFHKGLLVTPCVSSVKSISRAKIRTVKMTFVIVSAYILCWTPFFIVQMWSVWDTNFVWTDSENPSTTITALLASLNSCCNPWIYMFFSGHLLQDCVQSFPCCQSIAQKFAKDDSDSMSRRQTSYSNNRSPTNSTGTWKDSPKSSKSIRFIPVST |
| 5499 | sp|Q9HAV4|XPO5\_HUMAN | MAMDQVNALCEQLVKAVTVMMDPNSTQRYRLEALKFCEEFKEKCPICVPCGLRLAEKTQVAIVRHFGLQILEHVVKFRWNGMSRLEKVYLKNSVMELIANGTLNILEEENHIKDALSRIVVEMIKREWPQHWPDMLIELDTLSKQGETQTELVMFILLRLAEDVVTFQTLPPQRRRDIQQTLTQNMERIFSFLLNTLQENVNKYQQVKTDTSQESKAQANCRVGVAALNTLAGYIDWVSMSHITAENCKLLEILCLLLNEQELQLGAAECLLIAVSRKGKLEDRKPLMVLFGDVAMHYILSAAQTADGGGLVEKHYVFLKRLCQVLCALGNQLCALLGADSDVETPSNFGKYLESFLAFTTHPSQFLRSSTQMTWGALFRHEILSRDPLLLAIIPKYLRASMTNLVKMGFPSKTDSPSCEYSRFDFDSDEDFNAFFNSSRAQQGEVMRLACRLDPKTSFQMAGEWLKYQLSTFLDAGSVNSCSAVGTGEGSLCSVFSPSFVQWEAMTLFLESVITQMFRTLNREEIPVNDGIELLQMVLNFDTKDPLILSCVLTNVSALFPFVTYRPEFLPQVFSKLFSSVTFETVEESKAPRTRAVRNVRRHACSSIIKMCRDYPQLVLPNFDMLYNHVKQLLSNELLLTQMEKCALMEALVLISNQFKNYERQKVFLEELMAPVASIWLSQDMHRVLSDVDAFIAYVGTDQKSCDPGLEDPCGLNRARMSFCVYSILGVVKRTCWPTDLEEAKAGGFVVGYTSSGNPIFRNPCTEQILKLLDNLLALIRTHNTLYAPEMLAKMAEPFTKALDMLDAEKSAILGLPQPLLELNDSPVFKTVLERMQRFFSTLYENCFHILGKAGPSMQQDFYTVEDLATQLLSSAFVNLNNIPDYRLRPMLRVFVKPLVLFCPPEHYEALVSPILGPLFTYLHMRLSQKWQVINQRSLLCGEDEAADENPESQEMLEEQLVRMLTREVMDLITVCCVSKKGADHSSAPPADGDDEEMMATEVTPSAMAELTDLGKCLMKHEDVCTALLITAFNSLAWKDTLSCQRTTSQLCWPLLKQVLSGTLLADAVTWLFTSVLKGLQMHGQHDGCMASLVHLAFQIYEALRPRYLEIRAVMEQIPEIQKDSLDQFDCKLLNPSLQKVADKRRKDQFKRLIAGCIGKPLGEQFRKEVHIKNLPSLFKKTKPMLETEVLDNDGGGLATIFEP |
| 5500 | sp|Q8BZZ3|WWP1\_MOUSE | MATASPRSDTSDIHSGRLQLKVTVSSAKLKRKKNWFGTAIYTEVIVDGEVKKTAKSSSSSNPKWDEQLIVNVTPQTTLEFRVWSHHTLKADALLGKATVDLKQVLLTHNRKLEKVKEQLKLSLENKNGIVQTGELTVVLDGLVIEQEPVTNRSSSPPIEIQQNGDALHENGDPATRTTPRLPVEGTIGIDNHVSTNTVVPNSCCSHVVNGENTPSSPSQVAARPKNAPAPKPVTSAPTSDTVNGESSSVLADNTSTMGTLLPSEDTTSTSNCTSTTTQEPPVQEPPASSEHSECIPSASAEVGPEARSLIDPDSDSRNNSVFDKVRQPEGCVEPLRPQSGNTNTEALPSGWEQRKDPHGRTYYVDHNTRTTTWERPQPLPPGWERRVDDRGRVYYVDHNTRTTTWQRPTMESVRNFEQWQSQRNQLQGAMQQFNQRYLYSASMLAAENDPYGPLPPGWEKRVDSTDRVYFVNHNTKTTQWEDPRTQGLPNEEPLPEGWEIRYTREGVRYFVDHNTRTTTFKDPRNGKSSVTKGGPQIAYERSFRWKLAHFRYLCQSNALPSHVKINVSRQTLFEDSFQQIMALKPYDLRRRLYVIFRGEEGLDYGGLAREWFFLLSHEVLNPMYCLFEYAGKNNYCLQINPASTINPDHLSYFCFIGRFIAMALFHGKFIDTGFSLPFYKRMLSKKLTIKDLESIDTEFYNSLIWIRDNNIEECGLEMYFSVDMEILGKVTSHDLKLGGSNILVTEENKDEYIGLMTEWRFSRGVQEQTKAFLDGFNEVVPLQWLQYFDEKELEVMLCGMQEVDLADWQRNTVYRHYTRNSKQIIWFWQFVKETDNEVRMRLLQFVTGTCRLPLGGFAELMGSNGPQKFCIEKVGKDTWLPRSHTCFNRLDLPPYKSYEQLKEKLLFAIEETEGFGQE |
| 5501 | sp|O43592|XPOT\_HUMAN | MDEQALLGLNPNADSDFRQRALAYFEQLKISPDAWQVCAEALAQRTYSDDHVKFFCFQVLEHQVKYKYSELTTVQQQLIRETLISWLQAQMLNPQPEKTFIRNKAAQVFALLFVTEYLTKWPKFFFDILSVVDLNPRGVDLYLRILMAIDSELVDRDVVHTSEEARRNTLIKDTMREQCIPNLVESWYQILQNYQFTNSEVTCQCLEVVGAYVSWIDLSLIANDRFINMLLGHMSIEVLREEACDCLFEVVNKGMDPVDKMKLVESLCQVLQSAGFFSIDQEEDVDFLARFSKLVNGMGQSLIVSWSKLIKNGDIKNAQEALQAIETKVALMLQLLIHEDDDISSNIIGFCYDYLHILKQLTVLSDQQKANVEAIMLAVMKKLTYDEEYNFENEGEDEAMFVEYRKQLKLLLDRLAQVSPELLLASVRRVFSSTLQNWQTTRFMEVEVAIRLLYMLAEALPVSHGAHFSGDVSKASALQDMMRTLVTSGVSSYQHTSVTLEFFETVVRYEKFFTVEPQHIPCVLMAFLDHRGLRHSSAKVRSRTAYLFSRFVKSLNKQMNPFIEDILNRIQDLLELSPPENGHQSLLSSDDQLFIYETAGVLIVNSEYPAERKQALMRNLLTPLMEKFKILLEKLMLAQDEERQASLADCLNHAVGFASRTSKAFSNKQTVKQCGCSEVYLDCLQTFLPALSCPLQKDILRSGVRTFLHRMIICLEEEVLPFIPSASEHMLKDCEAKDLQEFIPLINQITAKFKIQVSPFLQQMFMPLLHAIFEVLLRPAEENDQSAALEKQMLRRSYFAFLQTVTGSGMSEVIANQGAENVERVLVTVIQGAVEYPDPIAQKTCFIILSKLVELWGGKDGPVGFADFVYKHIVPACFLAPLKQTFDLADAQTVLALSECAVTLKTIHLKRGPECVQYLQQEYLPSLQVAPEIIQEFCQALQQPDAKVFKNYLKVFFQRAKP |
| 5502 | sp|P27829|WECC\_ECOLI | MSFATISVIGLGYIGLPTAAAFASRQKQVIGVDINQHAVDTINRGEIHIVEPDLASVVKTAVEGGFLRASTTPVEADAWLIAVPTPFKGDHEPDMTYVESAARSIAPVLKKGALVILESTSPVGSTEKMAEWLAEMRPDLTFPQQVGEQADVNIAYCPERVLPGQVMVELIKNDRVIGGMTPVCSARASELYKIFLEGECVVTNSRTAEMCKLTENSFRDVNIAFANELSLICADQGINVWELIRLANRHPRVNILQPGPGVGGHCIAVDPWFIVAQNPQQARLIRTAREVNDHKPFWVIDQVKAAVADCLAATDKRASELKIACFGLAFKPNIDDLRESPAMEIAELIAQWHSGETLVVEPNIHQLPKKLTGLCTLAQLDEALATADVLVMLVDHSQFKVINGDNVHQQYVVDAKGVWR |
| 5503 | sp|O44750|XPP\_CAEEL | MTALEKLAKLRSLFHSERVLALTSSKPMVAYLLPSTDAHHSEYLADYDFRVKFLSGFSGSNAYVVVTDREALLWTDGRYFTQAGNQLDSNSWKLMKQGQPDSITVVDWLVRELERGSVIGFDPTLSTFDAGSKTFKRLKAAGLQPVSIPGNLVDEFWTDRPRLAGEPVVVLDVEDTGLTTSKKVENLREKLKQKKCDAAVFTLLDDVMWLLNIRGSDIPYNPLAYSYLFVAMREIHVFIDNEKLDEKSRAHFHKSNVSIHPYGEVYSWISNWLKAKEASKEPHMVYLTPETNYAIGSIIGEENSMVDTSLVQTAKATKNDHEMQGMRNSHLRDSAALVEFLCWLEKELLSGKRYTEIELADKIDHLRSLQDKYVTLSFDTISAVGDHAALPHYKPLGESGNRKAAANQVFLLDSGAHYGDGTTDVTRTVWYTNPPKEFILHNTLVLKGHINLARAKFPDGIYGSRLDTLTRDALWKLGLDFEHGTGHGVGHYLNVHEGPIGIGHRSVPTGGELHASQVLTIEPGFYAKEKYGIRIENCYETVEAVVMSKAQNFLTFKSLTLVPIQTSIVDKSLLIEEEINWLNQYHARVLKEVGEHLQKRGKTDELKWLAEACKPI |
| 5504 | sp|Q6NLQ8|XB32\_ARATH | MRFLSLVGNSFGCSASGERLVSAARDGDLQEAKALLDYNPRLARYSTFGVRNSPLHYSAAQGHHEIVSLLVESGVDINLRNYRGQTALMQACQHGHWEVVLILILFGANIHRSDYLNGGTALHLAALNGHPRCIRILLSEYIPSVPNCWSLLKNKKTSVAGFDSSVLHEVINRAADGGITPLHVAALNGHIETVQLLLDLGASVTQVTVEDGTTIDLIGAGSTALHYASCGGNTQCCQLLISKGACLAAVNSNGWTPMMVARSWHRNWLEEILNPTTEQPQLHLPNVPSPFLCLPLMSIVNIAQECGWRENDCLTPCRDPCAVCLERKCTVAADGCAHEFCTNCALYLSTTSITSSKTSNVTPGSVPCPLCRNGIVSFTKLPHTTATTRTSTSSRTSISLSFCTCSSDVLDTALLTNPHYSCKPVVSRTGSRTPQSARSSAFRSLSCRRFPPSLCLGGSDVDEPRSRLIGGSYSRSGVGFRRSTSQVEGKRSWFSALNHCVTTGGSAC |
| 5505 | sp|Q8GUQ8|XDH1\_ARATH | MGSLKKDGEIGDEFTEALLYVNGVRRVLPDGLAHMTLLEYLRDLGLTGTKLGCGEGGCGACTVMVSSYDRKSKTSVHYAVNACLAPLYSVEGMHVISIEGLGHRKLGLHPVQESLASSHGSQCGFCTPGFIMSMYSLLRSSKNSPSEEEIEECLAGNLCRCTGYRPIVDAFRVFAKSDDALYCGVSSLSLQDGSTICPSTGKPCSCGSKTTNEVASCNEDRFQSISYSDIDGAKYTDKELIFPPELLLRKLTPLKLRGNGGITWYRPVCLQNLLELKANYPDAKLLVGNTEVGIEMRLKRLQYQVLISVAQVPELNALNVNDNGIEVGSALRLSELLRLFRKIVKERPAHETSACKAFIEQLKWFAGTQIRNVACIGGNICTASPISDLNPLWMASRAEFRITNCNGDVRSIPAKDFFLGYRKVDMGSNEILLSVFLPWTRPLEYVKEFKQAHRRDDDIAIVNGGMRVFLEDKGQQLFVSDASIAYGGVAPLSLCARKTEEFLIGKNWNKDLLQDALKVIQSDVVIKEDAPGGMVEFRKSLTLSFFFKFFLWVSHNVNNANSAIETFPPSHMSAVQPVPRLSRIGKQDYETVKQGTSVGSSEVHLSARMQVTGEAEYTDDTPVPPNTLHAAFVLSKVPHARILSIDDSAAKSSSGFVGLFLAKDIPGDNMIGPIVPDEELFATDVVTCVGQVIGVVVADTHENAKTAAGKVDVRYEELPAILSIKEAINAKSFHPNTEKRLRKGDVELCFQSGQCDRVIEGEVQMGGQEHFYLEPNGSLVWTVDGGSEVHMISSTQAPQKHQKYVSHVLGLPMSKVVCKTKRIGGGFGGKETRSAFIAAAASVPSYLLNRPVKLILDRDVDMMITGHRHSFLGKYKVGFTNEGKILALDLEIYNNGGNSLDLSLSVLERAMFHSDNVYEIPHVRIVGNVCFTNFPSNTAFRGFGGPQGMLITENWIQRIAAELNKSPEEIKEMNFQVEGSVTHYCQTLQHCTLHQLWKELKVSCNFLKARREADEFNSHNRWKKRGVAMVPTKFGISFTTKFMNQAGALVHVYTDGTVLVTHGGVEMGQGLHTKVAQVAASAFNIPLSSVFVSETSTDKVPNASPTAASASSDMYGAAVLDACEQIIARMEPVASKHNFNTFTELVSACYFQRIDLSAHGFHIVPDLGFDWISGKGNAFRYYTYGAAFAEVEIDTLTGDFHTRAADIMLDLGYSLNPAIDVGQIEGAFVQGLGWVALEELKWGDAAHKWIKPGSLLTCGPGNYKIPSINDMPFNLNVSLLKGNPNTKAIHSSKAVGEPPFFLASSVFFAIKEAIKAARTEVGLTDWFPLESPATPERIRMACFDEFSAPFVNSDFYPNLSV |
| 5506 | sp|P69282|V\_SENDZ | MDQDAFILKEDSEVEREAPGGRESLSDVIGFLDAVLSSEPTDIGGDRSWLHNTINTPQGPGSAHRAKSEGEGEVSTPSTQDNRSGEESRVSGRTSKPEAEAHAGNLDKQNIHRAFGGRTGTNSVSQDLGDGGDSGILENPPNERGYPRSGIEDENREMAAHPDKRGEDQAEGLPEEVRGSTSLPDEGEGGASNNGRSMEPGSSHSARVTGVLVIPSPELEEAVLRRNKRRPTNSGSKPLTPATVPGTRSPPLNRYNSTGSPPGKPPSTQDEHINSGDTPAVRVKDRKPPIGTRSVSDCPANGRSIHPGLETDSTKKGHRREHIIYERDGYIVDESWCNPVCSRIRIIPRRELCVCKTCPKVCKLCRDDIQCMRPDPFCREIFRS |
| 5507 | sp|O75083|WDR1\_HUMAN | MPYEIKKVFASLPQVERGVSKIIGGDPKGNNFLYTNGKCVILRNIDNPALADIYTEHAHQVVVAKYAPSGFYIASGDVSGKLRIWDTTQKEHLLKYEYQPFAGKIKDIAWTEDSKRIAVVGEGREKFGAVFLWDSGSSVGEITGHNKVINSVDIKQSRPYRLATGSDDNCAAFFEGPPFKFKFTIGDHSRFVNCVRFSPDGNRFATASADGQIYIYDGKTGEKVCALGGSKAHDGGIYAISWSPDSTHLLSASGDKTSKIWDVSVNSVVSTFPMGSTVLDQQLGCLWQKDHLLSVSLSGYINYLDRNNPSKPLHVIKGHSKSIQCLTVHKNGGKSYIYSGSHDGHINYWDSETGENDSFAGKGHTNQVSRMTVDESGQLISCSMDDTVRYTSLMLRDYSGQGVVKLDVQPKCVAVGPGGYAVVVCIGQIVLLKDQRKCFSIDNPGYEPEVVAVHPGGDTVAIGGVDGNVRLYSILGTTLKDEGKLLEAKGPVTDVAYSHDGAFLAVCDASKVVTVFSVADGYSENNVFYGHHAKIVCLAWSPDNEHFASGGMDMMVYVWTLSDPETRVKIQDAHRLHHVSSLAWLDEHTLVTTSHDASVKEWTITY |
| 5508 | sp|Q9H0D6|XRN2\_HUMAN | MGVPAFFRWLSRKYPSIIVNCVEEKPKECNGVKIPVDASKPNPNDVEFDNLYLDMNGIIHPCTHPEDKPAPKNEDEMMVAIFEYIDRLFSIVRPRRLLYMAIDGVAPRAKMNQQRSRRFRASKEGMEAAVEKQRVREEILAKGGFLPPEEIKERFDSNCITPGTEFMDNLAKCLRYYIADRLNNDPGWKNLTVILSDASAPGEGEHKIMDYIRRQRAQPNHDPNTHHCLCGADADLIMLGLATHEPNFTIIREEFKPNKPKPCGLCNQFGHEVKDCEGLPREKKGKHDELADSLPCAEGEFIFLRLNVLREYLERELTMASLPFTFDVERSIDDWVFMCFFVGNDFLPHLPSLEIRENAIDRLVNIYKNVVHKTGGYLTESGYVNLQRVQMIMLAVGEVEDSIFKKRKDDEDSFRRRQKEKRKRMKRDQPAFTPSGILTPHALGSRNSPGSQVASNPRQAAYEMRMQNNSSPSISPNTSFTSDGSPSPLGGIKRKAEDSDSEPEPEDNVRLWEAGWKQRYYKNKFDVDAADEKFRRKVVQSYVEGLCWVLRYYYQGCASWKWYYPFHYAPFASDFEGIADMPSDFEKGTKPFKPLEQLMGVFPAASGNFLPPSWRKLMSDPDSSIIDFYPEDFAIDLNGKKYAWQGVALLPFVDERRLRAALEEVYPDLTPEETRRNSLGGDVLFVGKHHPLHDFILELYQTGSTEPVEVPPELCHGIQGKFSLDEEAILPDQIVCSPVPMLRDLTQNTVVSINFKDPQFAEDYIFKAVMLPGARKPAAVLKPSDWEKSSNGRQWKPQLGFNRDRRPVHLDQAAFRTLGHVMPRGSGTGIYSNAAPPPVTYQGNLYRPLLRGQAQIPKLMSNMRPQDSWRGPPPLFQQQRFDRGVGAEPLLPWNRMLQTQNAAFQPNQYQMLAGPGGYPPRRDDRGGRQGYPREGRKYPLPPPSGRYNWN |
| 5509 | sp|Q3U4G3|XXLT1\_MOUSE | MGLLRGGAACARAMARLGALRSHYCALLLAAALAVCAFYYLGSGRETFSSATKRLKEARAGAAAPTPPAPELARGSAAPASGAKAKSLEGGVVVPVDYHLLMMFTKAEHNAPLQAKARVALSSLLRLAKFEAHEVLNLHFVSEEASREVAKALLRELLPPAAGFKCKVIFHDVAVLTDKLFPVVEAMQKYFSAGSGTYYSDSIFFLSVAMHQIMPKEIPRIIQLDLDLKYKTNIRELFEEFDNFLPGAVIGIAREMQPVYRHTFWQFRHENPKTRVGDPPPEGLPGFNSGVMLLNLEAMRQSPLYSHLLEPSWVQQLADKYHFRGHLGDQDFFTMIGMEHPELFHVLDCTWNRQLCTWWRDHGYSDVFQAYFRCEGHVKIYHGNCNTPIPED |
| 5510 | sp|B7ZSG3|WT1A\_XENLA | MGSDVRDMNLLPPVSSLSGNSSCNMPVSSSAQWAPVLDFPPGAPYSSLTPHSFIKQEPTWNPDPHEDQCLSAFTVHFSGQFTGTAGACRYGPFGAPTPSQATTGQARMFSNAPYLSNCLDNQQGMRNQGYSAVAFDGTPSYGHTPSHHTSQFTNHSFKHEDPLSQQTSLGEQQYSVPPPVYGCHTPTDTCTGSQALLLRTPYNSDNLYPMTSQLDCMTWNQMNLGSSLKSHGTSYENDSHSSPMLYNCGGQYRIHTHGVFRGIQDVRRVPGVTPAIVRSTEANEKRPFMCAYPGCNKRYFKLSHLQMHSRKHTGEKPYQCDFKDCERRFSRSDQLKRHQRRHTGIKPFQCKTCQRKFSRSDHLKTHTRTHTGKTSEKPFSCRWPSCQKKFARSDELVRHHNMHQRNMTKLQLAL |
| 5511 | sp|Q8WVS4|WDR60\_HUMAN | MEPGKRRTKDDTWKADDLRKHLWAIQSGGSKEERKHREKKLRKESEMDLPEHKEPRCRDPDQDARSRDRVAEVHTAKESPRGERDRDRQRERRRDAKDREKEKLKEKHREAEKSHSRGKDREKEKDRRARKEELRQTVAHHNLLGQETRDRQLLERAERKGRSVSKVRSEEKDEDSERGDEDRERRYRERKLQYGDSKDNPLKYWLYKEEGERRHRKPREPDRDNKHREKSSTREKREKYSKEKSNSFSDKGEERHKEKRHKEGFHFDDERHQSNVDRKEKSAKDEPRKRESQNGEHRNRGASSKRDGTSSQHAENLVRNHGKDKDSRRKHGHEEGSSVWWKLDQRPGGEETVEIEKEETDLENARADAYTASCEDDFEDYEDDFEVCDGDDDESSNEPESREKLEELPLAQKKEIQEIQRAINAENERIGELSLKLFQKRGRTEFEKEPRTDTNSSPSRASVCGIFVDFASASHRQKSRTQALKQKMRSTKLLRLIDLDFSFTFSLLDLPPVNEYDMYIRNFGKKNTKQAYVQCNEDNVERDIQTEEIETREVWTQHPGESTVVSGGSEQRDTSDAVVMPKIDTPRLCSFLRAACQVMAVLLEEDRLAAEPSWNLRAQDRALYFSDSSSQLNTSLPFLQNRKVSSLHTSRVQRQMVVSVHDLPEKSFVPLLDSKYVLCVWDIWQPSGPQKVLICESQVTCCCLSPLKAFLLFAGTAHGSVVVWDLREDSRLHYSVTLSDGFWTFRTATFSTDGILTSVNHRSPLQAVEPISTSVHKKQSFVLSPFSTQEEMSGLSFHIASLDESGVLNVWVVVELPKADIAGSISDLGLMPGGRVKLVHSALIQLGDSLSHKGNEFWGTTQTLNVKFLPSDPNHFIIGTDMGLISHGTRQDLRVAPKLFKPQQHGIRPVKVNVIDFSPFGEPIFLAGCSDGSIRLHQLSSAFPLLQWDSSTDSHAVTGLQWSPTRPAVFLVQDDTSNIYIWDLLQSDLGPVAKQQVSPNRLVAMAAVGEPEKAGGSFLALVLARASGSIDIQHLKRRWAAPEVDECNRLRLLLQEALWPEGKLHK |
| 5512 | sp|Q9NZR4|VSX1\_HUMAN | MTGRDSLSDGRTSSRALVPGGSPRGSRPRGFAITDLLGLEAELPAPAGPGQGSGCEGPAVAPCPGPGLDGSSLARGALPLGLGLLCGFGTQPPAAARAPCLLLADVPFLPPRGPEPAAPLAPSRPPPALGRQKRSDSVSTSDEDSQSEDRNDLKASPTLGKRKKRRHRTVFTAHQLEELEKAFSEAHYPDVYAREMLAVKTELPEDRIQVWFQNRRAKWRKREKRWGGSSVMAEYGLYGAMVRHCIPLPDSVLNSAEGGLLGSCAPWLLGMHKKSMGMIRKPGSEDKLAGLWGSDHFKEGSSQSESGSQRGSDKVSPENGLEDVAIDLSSSARQETKKVHPGAGAQGGSNSTALEGPQPGKVGAT |
| 5513 | sp|P0ABU2|YCHF\_ECOLI | MGFKCGIVGLPNVGKSTLFNALTKAGIEAANFPFCTIEPNTGVVPMPDPRLDQLAEIVKPQRTLPTTMEFVDIAGLVKGASKGEGLGNQFLTNIRETEAIGHVVRCFENDNIIHVSGKVNPADDIEVINTELALADLDTCERAIHRVQKKAKGGDKDAKAELAVLEKCLPQLENAGMLRALDLSAEEKAAIRYLSFLTLKPTMYIANVNEDGFENNPYLDQVREIAAKEGSVVVPVCAAVEADIAELDDEERDEFMQELGLEEPGLNRVIRAGYKLLNLQTYFTAGVKEVRAWTIPVGATAPQAAGKIHTDFEKGFIRAQTISFEDFITYKGEQGAKEAGKMRAEGKDYIVKDGDVMNFLFNV |
| 5514 | sp|Q07791|YD23B\_YEAST | MESQQLHQNPHSLHGSAAASVTSKEVPSNQDPLAVSASNLPEFDRDSTKVNSQQETTPGTSAVPENHHHVSPQPASVPPPQNGQYQQHGMMTPNKAMASNWAHYQQPSMMTCSHYQTSPAYYQPDPHYPLPQYIPPLSTSSPDPIDSQNQHSEVPQAKTKVRNNVLPPHTLTSEENFSTWVKFYIRFLKNSNLGDIIPNDQGEIKRQMTYEEHAYIYNTFQAFAPFHLLPTWVKQILEINYADILTVLCKSVSKMQTNNQELKDWIALANLEYDGSTSADTFEITVSTIIQRLKENNINVSDRLACQLILKGLSGDFKYLRNQYRTKTNMKLSQLFAEIQLIYDENKIMNLNKPSQYKQHSEYKNVSRTSPNTTNTKVTSRNYHRTNSSKPRAAKAHNIATSSKFSRVNNDHINESTVSSQYLSDDNELSLGQQQKESKPTRTIDSNDELPDHLLIDSGASQTLVRSAHYLHHATPNSEINIVDAQKQDIPINAIGNLHFNFQNGTKTSIKALHTPNIAYDLLSLSELANQNITACFTRNTLERSDGTVLAPIVKHGDFYWLSKKYLIPSHISKLTINNVNKSKSVNKYPYPLIHRMLGHANFRSIQKSLKKNAVTYLKESDIEWSNASTYQCPDCLIGKSTKHRHIKGSRLKYQESYEPFQYLHTDIFGPVHHLPKSAPSYFISFTDEKTRFQWVYPLHDRREESILNVFTSILAFIKNQFNARVLVIQMDRGSEYTNKTLHKFFTNRGITACYTTTADSRAHGVAERLNRTLLNDCRTLLHCSGLPNHLWFSAVEFSTIIRNSLVSPKNDKSARQHAGLAGLDITTILPFGQPVIVNNHNPDSKIHPRGIPGYALHPSRNSYGYIIYLPSLKKTVDTTNYVILQDNQSKLDQFNYDTLTFDDDLNRLTAHNQSFIEQNETEQSYDQNTESDHDYQSEIEINSDPLVNDFSSQSLNPLQLDKEPVQKVRAPKEVDADISEYNILPSTIRSRTPHIINKESTEMGGTIESDTTSPRHSSTFTARNQKRPGSPNDMIDLTSQDRVNYGLENIKTTRLGGTEEPYIQRNSDTNIKYRTTNSTPSIDDRSSNSESTTPIISIETKAVCDNTPSIDTDPPEYRSSDHATPNIMPDKSSKNVTADSILDDLPLPDLTNKSPTDTSDVSKDIPHIHSRQTNSSLGGMDDSNVLTTTKSKKRSLEDNETEIEVSRDTWNNKNMRSLEPPRSKKRINLIAAIKGVKSIKPVRTTLRYDEAITYNKDNKEKDRYVEAYHKEISQLLKMNTWDTNKYYDRNDIDPKKVINSMFIFNKKRDGTHKARFVARGDIQHPDTYDSDMQSNTVHHYALMTSLSIALDNDYYITQLDISSAYLYADIKEELYIRPPPHLGLNDKLLRLRKSLYGLKQSGANWYETIKSYLINCCDMQEVRGWSCVFKNSQVTICLFVDDMILFSKDLNANKKIITTLKKQYDTKIINLGEGDNEIQYDILGLEIKYQRSKYMKLGMEKSLTEKLPKLNVPLNPKGKKLRAPGQPGHYIDQDELEIDEDEYKEKVHEMQKLIGLASYVGYKFRFDLLYYINTLAQHILFPSRQVLDMTYELIQFIWNTRDKQLIWHKSKPVKPTNKLVVISDASYGNQPYYKSQIGNIYLLNGKVIGGKSTKASLTCTSTTEAEIHAVSEAIPLLNNLSHLVQELNKKPIIKGLLTDSRSTISIIKSTNEEKFRNRFFGTKAMRLRDEVSGNNLYVYYIETKMNIADVMTKPLPIKTFKLLTNKWIH |
| 5515 | sp|O13799|YE02\_SCHPO | MSENSTDSKNFQFSEGSRESSNDELKVLLRDTETKEDEKSSFSNSEEESIIENLSDSSVNKEYAKNSLKLSDAVSESKYLNPLLKDKRHDRSFALHKVVVPDDYDYIPLNKHIPSDPPAKTYPFELDPFQSTAIKCVERMESVLVSAHTSAGKTVIAEYAIAQALKNRQRVIYTSPIKSLSNQKYRELLSEFGDVGLMTGDVSINPSASCLIMTTEILRAMLYKNSEIMHEIAWVIFDEVHYMRDKDRGVVWEETLILLPDAIRFIFLSATLPNALQFARWISEIHKQPCHVVYTDYRPTPLQHFIYPQGADGIYMLVDEKNKFKTENFKKVLEVLDHSTRQENYSKSSKKVKKSSSLERIINMVLSNRYDPIIVFCFSKKECEINAHQFGKLDLNDTENKELVTEIFDSAINQLSEEDRGLRQFEEMRSLLLRGIGIHHSGLLPILKELVEILFQEGLVRILFATETFSIGLNMPARTVLFTKAQKFSGNNFRWLTSGEYMQMSGRAGRRGIDTKGLSIVILDQSIDEQAARCLMNGQADVLNSAFHLSYGMILNLMRIEEISPEDILKKSFYQFQNMESLPLIKEELMQLKNEETSINIPNETAVKEFHDLKLQLEKYGEEIQKVMTHPDNCLPYLQSGRLIQIKLGGIIFPWGVLVNVIKREFDPNTREQVAPHETYVLDVLLPISSNSMSNHKVNPSILVPPRPNETPLYEIVSVLLTAVCNISSIRIYMPRELNSNESKLRAYRRVNEVIEEFKEIPYLDPLEHMHIESSTLSLSLRKLEILEPKLFDSPYYKDSKHRAEYHEFRKKLNLRAQIKDISTKITNTEAIIQLRELKIRQRVLRRLGFCTLENVIDIKGRVACEITSGDELLLVELIFQGFFNQMPPEEIAAALSCFVYEDKSEVSTLNLKEPFKKMYLTIIEAAKRIATVSLESKLQFNESDYLHQFKPDIMEPVSLWINGASFQEICIVSKLYEGSIVRTFRRLDELLKQLEHAAIVLGNNELKEKSVLTEQKLHRDIIFSASLYL |
| 5516 | sp|Q96TA2|YMEL1\_HUMAN | MFSLSSTVQPQVTVPLSHLINAFHTPKNTSVSLSGVSVSQNQHRDVVPEHEAPSSECMFSDFLTKLNIVSIGKGKIFEGYRSMFMEPAKRMKKSLDTTDNWHIRPEPFSLSIPPSLNLRDLGLSELKIGQIDQLVENLLPGFCKGKNISSHWHTSHVSAQSFFENKYGNLDIFSTLRSSCLYRHHSRALQSICSDLQYWPVFIQSRGFKTLKSRTRRLQSTSERLAETQNIAPSFVKGFLLRDRGSDVESLDKLMKTKNIPEAHQDAFKTGFAEGFLKAQALTQKTNDSLRRTRLILFVLLLFGIYGLLKNPFLSVRFRTTTGLDSAVDPVQMKNVTFEHVKGVEEAKQELQEVVEFLKNPQKFTILGGKLPKGILLVGPPGTGKTLLARAVAGEADVPFYYASGSEFDEMFVGVGASRIRNLFREAKANAPCVIFIDELDSVGGKRIESPMHPYSRQTINQLLAEMDGFKPNEGVIIIGATNFPEALDNALIRPGRFDMQVTVPRPDVKGRTEILKWYLNKIKFDQSVDPEIIARGTVGFSGAELENLVNQAALKAAVDGKEMVTMKELEFSKDKILMGPERRSVEIDNKNKTITAYHESGHAIIAYYTKDAMPINKATIMPRGPTLGHVSLLPENDRWNETRAQLLAQMDVSMGGRVAEELIFGTDHITTGASSDFDNATKIAKRMVTKFGMSEKLGVMTYSDTGKLSPETQSAIEQEIRILLRDSYERAKHILKTHAKEHKNLAEALLTYETLDAKEIQIVLEGKKLEVR |
| 5517 | sp|Q14690|RRP5\_HUMAN | MANLEESFPRGGTRKIHKPEKAFQQSVEQDNLFDISTEEGSTKRKKSQKGPAKTKKLKIEKRESSKSAREKFEILSVESLCEGMRILGCVKEVNELELVISLPNGLQGFVQVTEICDAYTKKLNEQVTQEQPLKDLLHLPELFSPGMLVRCVVSSLGITDRGKKSVKLSLNPKNVNRVLSAEALKPGMLLTGTVSSLEDHGYLVDIGVDGTRAFLPLLKAQEYIRQKNKGAKLKVGQYLNCIVEKVKGNGGVVSLSVGHSEVSTAIATEQQSWNLNNLLPGLVVKAQVQKVTPFGLTLNFLTFFTGVVDFMHLDPKKAGTYFSNQAVRACILCVHPRTRVVHLSLRPIFLQPGRPLTRLSCQNLGAVLDDVPVQGFFKKAGATFRLKDGVLAYARLSHLSDSKNVFNPEAFKPGNTHKCRIIDYSQMDELALLSLRTSIIEAQYLRYHDIEPGAVVKGTVLTIKSYGMLVKVGEQMRGLVPPMHLADILMKNPEKKYHIGDEVKCRVLLCDPEAKKLMMTLKKTLIESKLPVITCYADAKPGLQTHGFIIRVKDYGCIVKFYNNVQGLVPKHELSTEYIPDPERVFYTGQVVKVVVLNCEPSKERMLLSFKLSSDPEPKKEPAGHSQKKGKAINIGQLVDVKVLEKTKDGLEVAVLPHNIRAFLPTSHLSDHVANGPLLHHWLQAGDILHRVLCLSQSEGRVLLCRKPALVSTVEGGQDPKNFSEIHPGMLLIGFVKSIKDYGVFIQFPSGLSGLAPKAIMSDKFVTSTSDHFVEGQTVAAKVTNVDEEKQRMLLSLRLSDCGLGDLAITSLLLLNQCLEELQGVRSLMSNRDSVLIQTLAEMTPGMFLDLVVQEVLEDGSVVFSGGPVPDLVLKASRYHRAGQEVESGQKKKVVILNVDLLKLEVHVSLHQDLVNRKARKLRKGSEHQAIVQHLEKSFAIASLVETGHLAAFSLTSHLNDTFRFDSEKLQVGQGVSLTLKTTEPGVTGLLLAVEGPAAKRTMRPTQKDSETVDEDEEVDPALTVGTIKKHTLSIGDMVTGTVKSIKPTHVVVTLEDGIIGCIHASHILDDVPEGTSPTTKLKVGKTVTARVIGGRDMKTFKYLPISHPRFVRTIPELSVRPSELEDGHTALNTHSVSPMEKIKQYQAGQTVTCFLKKYNVVKKWLEVEIAPDIRGRIPLLLTSLSFKVLKHPDKKFRVGQALRATVVGPDSSKTLLCLSLTGPHKLEEGEVAMGRVVKVTPNEGLTVSFPFGKIGTVSIFHMSDSYSETPLEDFVPQKVVRCYILSTADNVLTLSLRSSRTNPETKSKVEDPEINSIQDIKEGQLLRGYVGSIQPHGVFFRLGPSVVGLARYSHVSQHSPSKKALYNKHLPEGKLLTARVLRLNHQKNLVELSFLPGDTGKPDVLSASLEGQLTKQEERKTEAEERDQKGEKKNQKRNEKKNQKGQEEVEMPSKEKQQPQKPQAQKRGGRECRESGSEQERVSKKPKKAGLSEEDDSLVDVYYREGKEEAEETNVLPKEKQTKPAEAPRLQLSSGFAWNVGLDSLTPALPPLAESSDSEEDEKPHQATIKKSKKERELEKQKAEKELSRIEEALMDPGRQPESADDFDRLVLSSPNSSILWLQYMAFHLQATEIEKARAVAERALKTISFREEQEKLNVWVALLNLENMYGSQESLTKVFERAVQYNEPLKVFLHLADIYAKSEKFQEAGELYNRMLKRFRQEKAVWIKYGAFLLRRSQAAASHRVLQRALECLPSKEHVDVIAKFAQLEFQLGDAERAKAIFENTLSTYPKRTDVWSVYIDMTIKHGSQKDVRDIFERVIHLSLAPKRMKFFFKRYLDYEKQHGTEKDVQAVKAKALEYVEAKSSVLED |
| 5518 | sp|P07281|RS19B\_YEAST | MAGVSVRDVAAQDFINAYASFLQRQGKLEVPGYVDIVKTSSGNEMPPQDAEGWFYKRAASVARHIYMRKQVGVGKLNKLYGGAKSRGVRPYKHIDASGSINRKVLQALEKIGIVEISPKGGRRISENGQRDLDRIAAQTLEEDE |
| 5519 | sp|P62979|RS27A\_HUMAN | MQIFVKTLTGKTITLEVEPSDTIENVKAKIQDKEGIPPDQQRLIFAGKQLEDGRTLSDYNIQKESTLHLVLRLRGGAKKRKKKSYTTPKKNKHKRKKVKLAVLKYYKVDENGKISRLRRECPSDECGAGVFMASHFDRHYCGKCCLTYCFNKPEDK |
| 5520 | sp|P40847|SAP1\_SCHPO | MEAPKMELKSYKRKNASLSPSSSPAKAQRTHLSLEEKIKLMRLVVRHKHELVDRKTSEFYAKIARIGYEDEGLAIHTESACRNQIISIMRVYEQRLAHRQPGMKTTPEEDELDQLCDEWKARLSELQQYREKFLVGKRKCDCNDEINERLKKLTEEQQNVDMLVAKVNFLSKHLHDNEEKLMQVNAKMDEVLAENKRLQQLLDHNDLLSKLEPPSAYAPHGVNMGTNMGANMGANMNAIRGGLHSSISPNLGDH |
| 5521 | sp|P0A7W1|RS5\_ECOLI | MAHIEKQAGELQEKLIAVNRVSKTVKGGRIFSFTALTVVGDGNGRVGFGYGKAREVPAAIQKAMEKARRNMINVALNNGTLQHPVKGVHTGSRVFMQPASEGTGIIAGGAMRAVLEVAGVHNVLAKAYGSTNPINVVRATIDGLENMNSPEMVAAKRGKSVEEILGK |
| 5522 | sp|P31647|S6A11\_RAT | MTAEQALPLGNGKAAEEARGSEALGGGGGGAAGTREARDKAVHERGHWNNKVEFVLSVAGEIIGLGNVWRFPYLCYKNGGGAFLIPYVVFFICCGIPVFFLETALGQFTSEGGITCWRRVCPLFEGIGYATQVIEAHLNVYYIIILAWAIFYLSNCFTTELPWATCGHEWNTEKCVEFQKLNFSNYSHVSLQNATSPVMEFWERRVLAISDGIEHIGNLRWELALCLLAAWTICYFCIWKGTKSTGKVVYVTATFPYIMLLILLIRGVTLPGASEGIKFYLYPDLSRLSDPQVWVDAGTQIFFSYAICLGCLTALGSYNNYNNNCYRDCIMLCCLNSGTSFVAGFAIFSVLGFMAYEQGVPIAEVAESGPGLAFIAYPKAVTMMPLSPLWATLFFMMLIFLGLDSQFVCVESLVTAVVDMYPKVFRRGYRRELLILALSIVSYFLGLVMLTEGGMYIFQLFDSYAASGMCLLFVAIFECVCIGWVYGSNRFYDNIEDMIGYRPLSLIKWCWKVVTPGICAGIFIFFLVKYKPLKYNNVYTYPAWGYGIGWLMALSSMLCIPLWIFIKLWKTEGTLPEKLQKLTVPSADLKMRGKLGASPRMVTVNDCEAKVKGDGTISAITEKETHF |
| 5523 | sp|Q9Y6R1|S4A4\_HUMAN | MEDEAVLDRGASFLKHVCDEEEVEGHHTIYIGVHVPKSYRRRRRHKRKTGHKEKKEKERISENYSDKSDIENADESSSSILKPLISPAAERIRFILGEEDDSPAPPQLFTELDELLAVDGQEMEWKETARWIKFEEKVEQGGERWSKPHVATLSLHSLFELRTCMEKGSIMLDREASSLPQLVEMIVDHQIETGLLKPELKDKVTYTLLRKHRHQTKKSNLRSLADIGKTVSSASRMFTNPDNGSPAMTHRNLTSSSLNDISDKPEKDQLKNKFMKKLPRDAEASNVLVGEVDFLDTPFIAFVRLQQAVMLGALTEVPVPTRFLFILLGPKGKAKSYHEIGRAIATLMSDEVFHDIAYKAKDRHDLIAGIDEFLDEVIVLPPGEWDPAIRIEPPKSLPSSDKRKNMYSGGENVQMNGDTPHDGGHGGGGHGDCEELQRTGRFCGGLIKDIKRKAPFFASDFYDALNIQALSAILFIYLATVTNAITFGGLLGDATDNMQGVLESFLGTAVSGAIFCLFAGQPLTILSSTGPVLVFERLLFNFSKDNNFDYLEFRLWIGLWSAFLCLILVATDASFLVQYFTRFTEEGFSSLISFIFIYDAFKKMIKLADYYPINSNFKVGYNTLFSCTCVPPDPANISISNDTTLAPEYLPTMSSTDMYHNTTFDWAFLSKKECSKYGGNLVGNNCNFVPDITLMSFILFLGTYTSSMALKKFKTSPYFPTTARKLISDFAIILSILIFCVIDALVGVDTPKLIVPSEFKPTSPNRGWFVPPFGENPWWVCLAAAIPALLVTILIFMDQQITAVIVNRKEHKLKKGAGYHLDLFWVAILMVICSLMALPWYVAATVISIAHIDSLKMETETSAPGEQPKFLGVREQRVTGTLVFILTGLSVFMAPILKFIPMPVLYGVFLYMGVASLNGVQFMDRLKLLLMPLKHQPDFIYLRHVPLRRVHLFTFLQVLCLALLWILKSTVAAIIFPVMILALVAVRKGMDYLFSQHDLSFLDDVIPEKDKKKKEDEKKKKKKKGSLDSDNDDSDCPYSEKVPSIKIPMDIMEQQPFLSDSKPSDRERSPTFLERHTSC |
| 5524 | sp|Q96N87|S6A18\_HUMAN | MAHAPEPDPAACDLGDERPKWDNKAQYLLSCTGFAVGLGNIWRFPYLCQTYGGGAFLIPYVIALVFEGIPIFHVELAIGQRLRKGSVGVWTAISPYLSGVGLGCVTLSFLISLYYNTIVAWVLWYLLNSFQHPLPWSSCPPDLNRTGFVEECQGSSAVSYFWYRQTLNITADINDSGSIQWWLLICLAASWAVVYMCVIRGIETTGKVIYFTALFPYLVLTIFLIRGLTLPGATKGLIYLFTPNMHILQNPRVWLDAATQIFFSLSLAFGGHIAFASYNSPRNDCQKDAVVIALVNRMTSLYASIAVFSVLGFKATNDYEHCLDRNILSLINDFDFPEQSISRDDYPAVLMHLNATWPKRVAQLPLKACLLEDFLDKSASGPGLAFVVFTETDLHMPGAPVWAMLFFGMLFTLGLSTMFGTVEAVITPLLDVGVLPRWVPKEALTGLVCLVCFLSATCFTLQSGNYWLEIFDNFAASPNLLMLAFLEVVGVVYVYGMKRFCDDIAWMTGRRPSPYWRLTWRVVSPLLLTIFVAYIILLFWKPLRYKAWNPKYELFPSRQEKLYPGWARAACVLLSLLPVLWVPVAALAQLLTRRRRTWRDRDARPDTDMRPDTDTRPDTDMRPDTDMR |
| 5525 | sp|Q9VAC8|SAS6\_DROME | MWPPGSEDSYSAKMDYGKSVVNILPSVEMLVNFNGEMTRSSKRSCLLYAERVDFKELLQLRLTEKSDQRRMYITTVDSASFQDLKQDQSLNVSFSGFIDNVVRMLKDCQSGKLELHLTTRDQNLSSGREVHDYYLQFVEIRSFKNLVHLSLPCRSAPLNTVLFYINSMLEASHKKQYILEQSMQQMQAEINAQRAHAERLTTENTNIREALAENTRILEEKHAAEVHQYQEKLSKINEQRSNELERNRRAISGFQAQLDKASLEKAELKSAQEQAEKRCQTLSEELSCCKARVCTLKEQNDKLHGDVANIRKHERKLEYKIEDLKQHTVELQEHIQKGNKEKANIAAELEAEKKILHTKRQALEMASEEISKANQIIVKQSQELLNLKKTIAWRTEVALQQEKAVQAKESLLSLRENELREARITIEKLREEIPQQLQSMRNFAQGLEQKYSKQILILKERLAIPTGKENRR |
| 5526 | sp|Q01405|SC23A\_MOUSE | MTTYLEFIQQNEERDGVRFSWNVWPSSRLEATRMVVPVAALFTPLKERPDLPPIQYEPVLCSRTTCRAVLNPLCQVDYRAKLWACNFCYQRNQFPPTYAGISELNQPAELLPQFSSIEYVVLRGPQMPLIFLYVVDTCIEDEDLQALKESMQMSLSLLPPTALVGLITFGRMVQVHELGCEGISKSYVFRGTKDLSAKQLQEMLGLSKVPVTQATRGPQVQQPPPSNRFLQPVQKIDMNLTDLLGELQRDPWPVPQGKRPLRSSGVALSIAVGLLECTFPNTGARIMMFIGGPATQGPGMVVGDELKTPIRSWHDIEKDNAKYVKKGTKHFEALANRAATTGHVIDIYACALDQTGLLEMKCCPNLTGGYMVMGDSFNTSLFKQTFQRVFTKDIHGQFKMGFGGTLEIKTSREIKISGAIGPCVSLNSKGPCVSENEIGTGGTCQWKICGLSPTTTLAIYFEVVNQHNAPIPQGGRGAVQFVTQYQHSSGQRRIRVTTIARNWADAQTQIQNIAASFDQEAAAILMARLAIYRAETEEGPDVLRWLDRQLIRLCQKFGEYHKDDPNSFRFSETFSLYPQFMFHLRRSPFLQVFNNSPDESSYYRHHFMRQDLTQSLIMIQPILYAYSFSGPPEPVLLDSSSILADRILLMDTFFQILIYHGETIAQWRKSGYQDMPEYENFRHLLQAPVDDAQEILHSRFPMPRYIDTEHGGSQARFLLSKVNPSQTHNNMYAWGQESGAPILTDDVSLQVFMDHLKKLAVSSAA |
| 5527 | sp|P46674|SAC3\_YEAST | MNTSFGSVVPSTNFNFFKGHGNNDNTSANSTVNNSNFFLNSNETKPSKNVFMVHSTSQKKSQQPLQNLSHSPSYTENKPDKKKKYMINDAKTIQLVGPLISSPDNLGFQKRSHKARELPRFLINQEPQLEKRAFVQDPWDKANQEKMISLEESIDDLNELYETLKKMRNTERSIMEEKGLVDKADSAKDLYDAIVFQGTCLDMCPTFERSRRNVEYTVYSYEKNQPNDKKASRTKALKVFARPAAAAAPPLPSDVRPPHILVKTLDYIVDNLLTTLPESEGFLWDRMRSIRQDFTYQNYSGPEAVDCNERIVRIHLLILHIMVKSNVEFSLQQELEQLHKSLITLSEIYDDVRSSGGTCPNEAEFRAYALLSKIRDPQYDENIQRLPKHIFQDKLVQMALCFRRVISNSAYTERGFVKTENCLNFYARFFQLMQSPSLPLLMGFFLQMHLTDIRFYALRALSHTLNKKHKPIPFIYLENMLLFNNRQEIIEFCNYYSIEIINGDAADLKTLQHYSHKLSETQPLKKTYLTCLERRLQKTTYKGLINGGEDNLASSVYVKDPKKDRIPSIADQSFLMENFQNNYNEKLNQNSSVKPQINTSPKRVATRPNHFPFSQESKQLPQISQSHTLSTNPLLTPQVHGDLSEQKQQQIKTVTDGGSPFVFDQSAQNSTVEASKAHMISTTSNGAYDEKLSSEQEEMRKKEEQRIEEEKTQLKKKQENADKQVITEQIANDLVKEVVNSSVISIVKREFSEANYRKDFIDTMTRELYDAFLHERLYLIYMDSRAELKRNSTLKKKFFEKWQASYSQAKKNRILEEKKREEIKLVSHQLGVPGFKKSTCLFRTPYKGNVNSSFMLSSSDKNLIFSPVNDEFNKFATHLTKISKLWRPLEMQSIYYDNLTKKFPSNSLTPANLFIYAKDWTSLSNRWILSKFNLQTAQDSKKFSNNIISSRIICIDDEYEPSDFSDLQLLIFNTGVTNPDIFDLEMKLKDDGEELIKLITGISLNTNICFSLLIIYWESAENTLSESTIKHLLKLNRISKNYSSVIERIDLMNLTEESPHKCLEDKLSEISHSYVYKLTERGKYDKTLRQKRSLAGIHSRSTQLQTTKDIDQKMKKMLEKEKNKYQQQIGERNTYAHLESHIDASPRSKKRKLPILLSTSHSSQFKTPLASRLNTSGSSTSPPLPSHLAMKFRKNSRVTSLHTVLPVSTPSHSNNIPAASFSGNNTTDIQSQQLIENQKSTSVYLNNVSERILGNQEICQTPINPVTPVLDGADQGKEDIPDSILELKILIDSVKKKVNND |
| 5528 | sp|P0A809|RUVA\_ECOLI | MIGRLRGIIIEKQPPLVLIEVGGVGYEVHMPMTCFYELPEAGQEAIVFTHFVVREDAQLLYGFNNKQERTLFKELIKTNGVGPKLALAILSGMSAQQFVNAVEREEVGALVKLPGIGKKTAERLIVEMKDRFKGLHGDLFTPAADLVLTSPASPATDDAEQEAVAALVALGYKPQEASRMVSKIARPDASSETLIREALRAAL |
| 5529 | sp|Q6ZMH5|S39A5\_HUMAN | MMGSPVSHLLAGFCVWVVLGWVGGSVPNLGPAEQEQNHYLAQLFGLYGENGTLTAGGLARLLHSLGLGRVQGLRLGQHGPLTGRAASPAADNSTHRPQNPELSVDVWAGMPLGPSGWGDLEESKAPHLPRGPAPSGLDLLHRLLLLDHSLADHLNEDCLNGSQLLVNFGLSPAAPLTPRQFALLCPALLYQIDSRVCIGAPAPAPPGDLLSALLQSALAVLLLSLPSPLSLLLLRLLGPRLLRPLLGFLGALAVGTLCGDALLHLLPHAQEGRHAGPGGLPEKDLGPGLSVLGGLFLLFVLENMLGLLRHRGLRPRCCRRKRRNLETRNLDPENGSGMALQPLQAAPEPGAQGQREKNSQHPPALAPPGHQGHSHGHQGGTDITWMVLLGDGLHNLTDGLAIGAAFSDGFSSGLSTTLAVFCHELPHELGDFAMLLQSGLSFRRLLLLSLVSGALGLGGAVLGVGLSLGPVPLTPWVFGVTAGVFLYVALVDMLPALLRPPEPLPTPHVLLQGLGLLLGGGLMLAITLLEERLLPVTTEG |
| 5530 | sp|P06702|S10A9\_HUMAN | MTCKMSQLERNIETIINTFHQYSVKLGHPDTLNQGEFKELVRKDLQNFLKKENKNEKVIEHIMEDLDTNADKQLSFEEFIMLMARLTWASHEKMHEGDEGPGHHHKPGLGEGTP |
| 5531 | sp|Q9VM90|SBKH\_DROME | MGTIEKRSFSFRLRRSFGDGGSTNSRNSNNNSSTCTNHNNQKRCSTPLTPTSTSTGRLEVPGAASVSRRSSIYKKPDKNDGGQIHLIPDVELPLMTFADQYNIEKTLAEGCFAKILLCRHRPTNTLVVLKAVHAELTTIKEFQKEFHYNYELSHHHHILSAYAVAFQTMDYYVFAMEHAPYGDLASNIGPNGLHENACKLISEQLSSALGFMHSKNLVHRDLKIENILVFTPDFTRVKLCDFGATTKKGLLVHKVKHTWTSCVPPEQLELIKNERFQCLPVSDSWQFGILLYNILTGNPPWQSADWVKDQSYANFMKYEQRKTTKVPDNFRRFSPRLMRCFRKYLSHDPEDRCKITEVAKYMKDRWVECRISTSKSATLISPTNHDQDSCIYLNQREGRLSGDENKLRFKRMMSTYGLDIPIDQAMVRRRVWDWLSTCDANFDPDVESLHALDLLQ |
| 5532 | sp|P78383|S35B1\_HUMAN | MASSSSLVPDRLRLPLCFLGVFVCYFYYGILQEKITRGKYGEGAKQETFTFALTLVFIQCVINAVFAKILIQFFDTARVDRTRSWLYAACSISYLGAMVSSNSALQFVNYPTQVLGKSCKPIPVMLLGVTLLKKKYPLAKYLCVLLIVAGVALFMYKPKKVVGIEEHTVGYGELLLLLSLTLDGLTGVSQDHMRAHYQTGSNHMMLNINLWSTLLLGMGILFTGELWEFLSFAERYPAIIYNILLFGLTSALGQSFIFMTVVYFGPLTCSIITTTRKFFTILASVILFANPISPMQWVGTVLVFLGLGLDAKFGKGAKKTSH |
| 5533 | sp|Q6T707|SCD4\_MOUSE | MTAHLPQEISSRCSTTNIMEPHSRRQQDGEEKMPLQAEDIRPEIKDDLYDPSYQDEEGPPPKLEYVWRNIIFMALLHVGALYGITLVPSCKVYTWLLGVFYNVVAGLGITAGAHRLWSHRTYKARLPLRIFLIMANTMAFQNDVYEWARDHRAHHKFSETHADPHNSRRGFFFSHVGWLLVRKHPAVKEKGKNLDMSDLKAEKLVMFQRRYYKLAVTLMFIILPTLVPWYLWGETFQHSLCVSNFLRYAVLLNFTWLVNSAAHLYGYRPYDRGIGARENPFVSMASLGEGFHNYHHTFPYDYSVSEYRWHINFTTFFIDCMAALGLAYDRKKVSKAVVLARIKRTGDGSHKSS |
| 5534 | sp|Q7Z769|S35E3\_HUMAN | MALLVDRVRGHWRIAAGLLFNLLVSICIVFLNKWIYVYHGFPNMSLTLVHFVVTWLGLYICQKLDIFAPKSLPPSRLLLLALSFCGFVVFTNLSLQNNTIGTYQLAKAMTTPVIIAIQTFCYQKTFSTRIQLTLIPITLGVILNSYYDVKFNFLGMVFAALGVLVTSLYQVWVGAKQHELQVNSMQLLYYQAPMSSAMLLVAVPFFEPVFGEGGIFGPWSVSALLMVLLSGVIAFMVNLSIYWIIGNTSPVTYNMFGHFKFCITLFGGYVLFKDPLSINQALGILCTLFGILAYTHFKLSEQEGSRSKLAQRP |
| 5535 | sp|Q96T51|RUFY1\_HUMAN | MADREGGCAAGRGRELEPELEPGPGPGSALEPGEEFEIVDRSQLPGPGDLRSATRPRAAEGWSAPILTLARRATGNLSASCGSALRAAAGLGGGDSGDGTARAASKCQMMEERANLMHMMKLSIKVLLQSALSLGRSLDADHAPLQQFFVVMEHCLKHGLKVKKSFIGQNKSFFGPLELVEKLCPEASDIATSVRNLPELKTAVGRGRAWLYLALMQKKLADYLKVLIDNKHLLSEFYEPEALMMEEEGMVIVGLLVGLNVLDANLCLKGEDLDSQVGVIDFSLYLKDVQDLDGGKEHERITDVLDQKNYVEELNRHLSCTVGDLQTKIDGLEKTNSKLQEELSAATDRICSLQEEQQQLREQNELIRERSEKSVEITKQDTKVELETYKQTRQGLDEMYSDVWKQLKEEKKVRLELEKELELQIGMKTEMEIAMKLLEKDTHEKQDTLVALRQQLEEVKAINLQMFHKAQNAESSLQQKNEAITSFEGKTNQVMSSMKQMEERLQHSERARQGAEERSHKLQQELGGRIGALQLQLSQLHEQCSSLEKELKSEKEQRQALQRELQHEKDTSSLLRMELQQVEGLKKELRELQDEKAELQKICEEQEQALQEMGLHLSQSKLKMEDIKEVNQALKGHAWLKDDEATHCRQCEKEFSISRRKHHCRNCGHIFCNTCSSNELALPSYPKPVRVCDSCHTLLLQRCSSTAS |
| 5536 | sp|O42601|S17B1\_XENLA | MSSPDCGYSSDDQIQGSCSVPMMMGQYQWTEPLTVFQDLKPKRDEGSADSRSKAEGRIRRPMNAFMVWAKDERKRLAQQNPDLHNAELSKMLGKSWKSLTLATKRPFVEEAERLRVQHIQDYPDYKYRPRRKKQVKRMKREEDGFLPSANFPGSQIMDNNVMVGENYRMQYSAQNHQQNQLPPAGYFEGHNSMGYYYRDYSVPNYHISQNSSGYDSPPAQDEYQALSYSFNSSYMPYQQNATTPVMAKQMAVTQNIPQESPEHGMMASPQMYNRQMYVSECAKTHPMAQTEQHFPSYQSQKTVRQNYLQSQQDGHLESDIDKTEFDQYLMYEPKADMEIIYTIDQDSGAYSTNLLPSLITEANNVCYYDYCGV |
| 5537 | sp|P23977|SC6A3\_RAT | MSKSKCSVGPMSSVVAPAKESNAVGPREVELILVKEQNGVQLTNSTLINPPQTPVEAQERETWSKKIDFLLSVIGFAVDLANVWRFPYLCYKNGGGAFLVPYLLFMVIAGMPLFYMELALGQFNREGAAGVWKICPVLKGVGFTVILISFYVGFFYNVIIAWALHYFFSSFTMDLPWIHCNNTWNSPNCSDAHASNSSDGLGLNDTFGTTPAAEYFERGVLHLHQSRGIDDLGPPRWQLTACLVLVIVLLYFSLWKGVKTSGKVVWITATMPYVVLTALLLRGVTLPGAMDGIRAYLSVDFYRLCEASVWIDAATQVCFSLGVGFGVLIAFSSYNKFTNNCYRDAIITTSINSLTSFSSGFVVFSFLGYMAQKHNVPIRDVATDGPGLIFIIYPEAIATLPLSSAWAAVFFLMLLTLGIDSAMGGMESVITGLVDEFQLLHRHRELFTLGIVLATFLLSLFCVTNGGIYVFTLLDHFAAGTSILFGVLIEAIGVAWFYGVQQFSDDIKQMTGQRPNLYWRLCWKLVSPCFLLYVVVVSIVTFRPPHYGAYIFPDWANALGWIIATSSMAMVPIYATYKFCSLPGSFREKLAYAITPEKDHQLVDRGEVRQFTLRHWLLL |
| 5538 | sp|O15245|S22A1\_HUMAN | MPTVDDILEQVGESGWFQKQAFLILCLLSAAFAPICVGIVFLGFTPDHHCQSPGVAELSQRCGWSPAEELNYTVPGLGPAGEAFLGQCRRYEVDWNQSALSCVDPLASLATNRSHLPLGPCQDGWVYDTPGSSIVTEFNLVCADSWKLDLFQSCLNAGFLFGSLGVGYFADRFGRKLCLLGTVLVNAVSGVLMAFSPNYMSMLLFRLLQGLVSKGNWMAGYTLITEFVGSGSRRTVAIMYQMAFTVGLVALTGLAYALPHWRWLQLAVSLPTFLFLLYYWCVPESPRWLLSQKRNTEAIKIMDHIAQKNGKLPPADLKMLSLEEDVTEKLSPSFADLFRTPRLRKRTFILMYLWFTDSVLYQGLILHMGATSGNLYLDFLYSALVEIPGAFIALITIDRVGRIYPMAMSNLLAGAACLVMIFISPDLHWLNIIIMCVGRMGITIAIQMICLVNAELYPTFVRNLGVMVCSSLCDIGGIITPFIVFRLREVWQALPLILFAVLGLLAAGVTLLLPETKGVALPETMKDAENLGRKAKPKENTIYLKVQTSEPSGT |
| 5539 | sp|Q9Z132|RSPO1\_MOUSE | MRLGLCVVALVLSWTHIAVGSRGIKGKRQRRISAEGSQACAKGCELCSEVNGCLKCSPKLFILLERNDIRQVGVCLPSCPPGYFDARNPDMNKCIKCKIEHCEACFSHNFCTKCQEALYLHKGRCYPACPEGSTAANSTMECGSPAQCEMSEWSPWGPCSKKRKLCGFRKGSEERTRRVLHAPGGDHTTCSDTKETRKCTVRRTPCPEGQKRRKGGQGRRENANRHPARKNSKEPRSNSRRHKGQQQPQPGTTGPLTSVGPTWAQ |
| 5540 | sp|P48067|SC6A9\_HUMAN | MSGGDTRAAIARPRMAAAHGPVAPSSPEQVTLLPVQRSFFLPPFSGATPSTSLAESVLKVWHGAYNSGLLPQLMAQHSLAMAQNGAVPSEATKRDQNLKRGNWGNQIEFVLTSVGYAVGLGNVWRFPYLCYRNGGGAFMFPYFIMLIFCGIPLFFMELSFGQFASQGCLGVWRISPMFKGVGYGMMVVSTYIGIYYNVVICIAFYYFFSSMTHVLPWAYCNNPWNTHDCAGVLDASNLTNGSRPAALPSNLSHLLNHSLQRTSPSEEYWRLYVLKLSDDIGNFGEVRLPLLGCLGVSWLVVFLCLIRGVKSSGKVVYFTATFPYVVLTILFVRGVTLEGAFDGIMYYLTPQWDKILEAKVWGDAASQIFYSLGCAWGGLITMASYNKFHNNCYRDSVIISITNCATSVYAGFVIFSILGFMANHLGVDVSRVADHGPGLAFVAYPEALTLLPISPLWSLLFFFMLILLGLGTQFCLLETLVTAIVDEVGNEWILQKKTYVTLGVAVAGFLLGIPLTSQAGIYWLLLMDNYAASFSLVVISCIMCVAIMYIYGHRNYFQDIQMMLGFPPPLFFQICWRFVSPAIIFFILVFTVIQYQPITYNHYQYPGWAVAIGFLMALSSVLCIPLYAMFRLCRTDGDTLLQRLKNATKPSRDWGPALLEHRTGRYAPTIAPSPEDGFEVQPLHPDKAQIPIVGSNGSSRLQDSRI |
| 5541 | sp|Q5BJF2|SGMR2\_HUMAN | MGAPATRRCVEWLLGLYFLSHIPITLFMDLQAVLPRELYPVEFRNLLKWYAKEFKDPLLQEPPAWFKSFLFCELVFQLPFFPIATYAFLKGSCKWIRTPAIIYSVHTMTTLIPILSTFLFEDFSKASGFKGQRPETLHERLTLVSVYAPYLLIPFILLIFMLRSPYYKYEEKRKKK |
| 5542 | sp|G5EC37|SEPA1\_CAEEL | MTPLSALTSNPAPSPPPKFALGKCPATAIHVVSVLRPNRQRFCYEKTDAGDLIPHKCLICQPILTEKHISPYYAVYSDLLEDFVLFGYNTMTGKMEQFIYAFKTDCFVEVNRPEIKYNPAFLVKGNVVVALNGPEGELVVIERDCRGLLSKESTSYGQFRTLPTAALRTLTLQDLERDRWDRAANSDEVKISSGNESFDRLYAEYQKNLPRFQVRQCLHLNKEFLCVYSKTSGDYTRLEYIDETGDFQKISCTLCTCEVTESNLIPLYVERNASELVIHVHNTENNQIEQYIYDVRTFGFVQVKRNLVYDPKKITSGLNLFMAENIDNRKVYMIMRGRDGRLQKETSGSGGFEKMQPVAVKTFQVQWVEMKTEFEKKKASTERVEPQHPVQTEGEDIMETVLAMVESFNCDLRKELGLTQDQEIPRKAPRVESAETEENIVKNLEKLQIAKDPEEPTTAASEGGNTYGYQELDDTMSEGLLEKEAESKHQDANEPEPVKNVTYEPDVAAMDKKKKRRELKSRLNKINAQIDELEKRRMERAGKKQVVSSSVPSEEAAQVEAPASPALAENTNQISNEETPKIDIFEGYNGSFLFGTNTSKEWIVEDIRNHMVGKLLKAFWPRIQNVEEMNGELFKKLIANARKCETEILEASNDRDEYYRLMQLTVDQILKKTLKKDQRATEHNHQQPTQSSDELAKNHEKN |
| 5543 | sp|Q5HYK7|SH319\_HUMAN | MNIMNTEQSQNSIVSRIKVFEGQTNIETSGLPKKPEITPRSLPPKPTVSSGKPSVAPKPAANRASGEWDSGTENRLKVTSKEGLTPYPPLQEAGSIPVTKPELPKKPNPGLIRSVNPEIPGRGPLAESSDSGKKVPTPAPRPLLLKKSVSSENPTYPSAPLKPVTVPPRLAGASQAKAYKSLGEGPPANPPVPVLQSKPLVDIDLISFDDDVLPTPSGNLAEESVGSEMVLDPFQLPAKTEPIKERAVQPAPTRKPTVIRIPAKPGKCLHEDPQSPPPLPAEKPIGNTFSTVSGKLSNVERTRNLESNHPGQTGGFVRVPPRLPPRPVNGKTIPTQQPPTKVPPERPPPPKLSATRRSNKKLPFNRSSSDMDLQKKQSNLATGLSKAKSQVFKNQDPVLPPRPKPGHPLYSKYMLSVPHGIANEDIVSQNPGELSCKRGDVLVMLKQTENNYLECQKGEDTGRVHLSQMKIITPLDEHLRSRPNDPSHAQKPVDSGAPHAVVLHDFPAEQVDDLNLTSGEIVYLLEKIDTDWYRGNCRNQIGIFPANYVKVIIDIPEGGNGKRECVSSHCVKGSRCVARFEYIGEQKDELSFSEGEIIILKEYVNEEWARGEVRGRTGIFPLNFVEPVEDYPTSGANVLSTKVPLKTKKEDSGSNSQVNSLPAEWCEALHSFTAETSDDLSFKRGDRIQILERLDSDWCRGRLQDREGIFPAVFVRPCPAEAKSMLAIVPKGRKAKALYDFRGENEDELSFKAGDIITELESVDDDWMSGELMGKSGIFPKNYIQFLQIS |
| 5544 | sp|Q61327|SC6A3\_MOUSE | MSKSKCSVGPMSSVVAPAKEPNAVGPREVELILVKEQNGVQLTNSTLINPPQTPVEVQERETWSKKIDFLLSVIGFAVDLANVWRFPYLCYKNGGGAFLVPYLLFMVIAGMPLFYMELALGQFNREGAAGVWKICPVLKGVGFTVILISFYVGFFYNVIIAWALHYFFSSFTMDLPWIHCNNTWNSPNCSDAHSSNSSDGLGLNDTFGTTPAAEYFERGVLHLHQSRGIDDLGPPRWQLTACLVLVIVLLYFSLWKGVKTSGKVVWITATMPYVVLTALLLRGVTLPGAMDGIRAYLSVDFYRLCEASVWIDAATQVCFSLGVGFGVLIAFSSYNKFTNNCYRDAIITTSINSLTSFSSGFVVFSFLGYMAQKHNVPIRDVATDGPGLIFIIYPEAIATLPLSSAWAAVFFLMLLTLGIDSAMGGMESVITGLVDEFQLLHRHRELFTLGIVLATFLLSLFCVTNGGIYVFTLLDHFAAGTSILFGVLIEAIGVAWFYGVQQFSDDIKQMTGQRPNLYWRLCWKLVSPCFLLYVVVVSIVTFRPPHYGAYIFPDWANALGWIIATSSMAMVPIYATYKFCSLPGSFREKLAYAITPEKDRQLVDRGEVRQFTLRHWLLV |
| 5545 | sp|Q9M2P4|SINA2\_ARATH | MAPGGSALKEVMESNSTGMDYEVKTAKVEVNNNKPTKPGSAGIGKYGIHSNNGVYELLECPVCTNLMYPPIHQCPNGHTLCSNCKLRVQNTCPTCRYELGNIRCLALEKVAESLEVPCRYQNLGCHDIFPYYSKLKHEQHCRFRPYTCPYAGSECSVTGDIPTLVVHLKDDHKVDMHDGCTFNHRYVKSNPHEVENATWMLTVFNCFGRQFCLHFEAFQLGMAPVYMAFLRFMGDENEAKKFSYSLEVGAHGRKLTWQGIPRSIRDSHRKVRDSQDGLIIPRNLALYFSGGDRQELKLRVTGRIWKEE |
| 5546 | sp|Q80UG5|SEPT9\_MOUSE | MKKSYSGVTRTSSGRLRRLADPTGPALKRSFEVEEIEPPNSTPPRRVQTPLLRATVASSSQKFQDLGVKNSEPAARLVDSLSQRSPKPSLRRVELAGAKAPEPMSRRTEISIDISSKQVESTASAAGPSRFGLKRAEVLGHKTPEPVPRRTEITIVKPQESVLRRVETPASKIPEGSAVPATDAAPKRVEIQVPKPAEAPNCPLPSQTLENSEAPMSQLQSRLEPRPSVAEVPYRNQEDSEVTPSCVGDMADNPRDAMLKQAPASRNEKAPMEFGYVGIDSILEQMRRKAMKQGFEFNIMVVGQSGLGKSTLINTLFKSKISRKSVQPTSEERIPKTIEIKSITHDIEEKGVRMKLTVIDTPGFGDHINNENCWQPIMKFINDQYEKYLQEEVNINRKKRIPDTRVHCCLYFIPATGHSLRPLDIEFMKRLSKVVNIVPVIAKADTLTLEERVYFKQRITADLLSNGIDVYPQKEFDEDAEDRLVNEKFREMIPFAVVGSDHEYQVNGKRILGRKTKWGTIEVENTTHCEFAYLRDLLIRTHMQNIKDITSNIHFEAYRVKRLNEGNSAMANGIEKEPEAQEM |
| 5547 | sp|Q8BKJ9|SIR7\_MOUSE | MAAGGGLSRSERKAAERVRRLREEQQRERLRQVSRILRKAAAERSAEEGRLLAESEDLVTELQGRSRRREGLKRRQEEVCDDPEELRRKVRELAGAVRSARHLVVYTGAGISTAASIPDYRGPNGVWTLLQKGRPVSAADLSEAEPTLTHMSITRLHEQKLVQHVVSQNCDGLHLRSGLPRTAISELHGNMYIEVCTSCIPNREYVRVFDVTERTALHRHLTGRTCHKCGTQLRDTIVHFGERGTLGQPLNWEAATEAASKADTILCLGSSLKVLKKYPRLWCMTKPPSRRPKLYIVNLQWTPKDDWAALKLHGKCDDVMQLLMNELGLEIPVYNRWQDPIFSLATPLRAGEEGSHSRKSLCRSREEAPPGDQSDPLASAPPILGGWFGRGCAKRAKRKKVA |
| 5548 | sp|Q8LPS5|SERK5\_ARATH | MEHGSSRGFIWLILFLDFVSRVTGKTQVDALIALRSSLSSGDHTNNILQSWNATHVTPCSWFHVTCNTENSVTRLDLGSANLSGELVPQLAQLPNLQYLELFNNNITGEIPEELGDLMELVSLDLFANNISGPIPSSLGKLGKLRFLRLYNNSLSGEIPRSLTALPLDVLDISNNRLSGDIPVNGSFSQFTSMSFANNKLRPRPASPSPSPSGTSAAIVVGVAAGAALLFALAWWLRRKLQGHFLDVPAEEDPEVYLGQFKRFSLRELLVATEKFSKRNVLGKGRFGILYKGRLADDTLVAVKRLNEERTKGGELQFQTEVEMISMAVHRNLLRLRGFCMTPTERLLVYPYMANGSVASCLRERPEGNPALDWPKRKHIALGSARGLAYLHDHCDQKIIHLDVKAANILLDEEFEAVVGDFGLAKLMNYNDSHVTTAVRGTIGHIAPEYLSTGKSSEKTDVFGYGVMLLELITGQKAFDLARLANDDDIMLLDWVKEVLKEKKLESLVDAELEGKYVETEVEQLIQMALLCTQSSAMERPKMSEVVRMLEGDGLAERWEEWQKEEMPIHDFNYQAYPHAGTDWLIPYSNSLIENDYPSGPR |
| 5549 | sp|Q92008|SHH\_DANRE | MRLLTRVLLVSLLTLSLVVSGLACGPGRGYGRRRHPKKLTPLAYKQFIPNVAEKTLGASGRYEGKITRNSERFKELTPNYNPDIIFKDEENTGADRLMTQRCKDKLNSLAISVMNHWPGVKLRVTEGWDEDGHHFEESLHYEGRAVDITTSDRDKSKYGTLSRLAVEAGFDWVYYESKAHIHCSVKAENSVAAKSGGCFPGSALVSLQDGGQKAVKDLNPGDKVLAADSAGNLVFSDFIMFTDRDSTTRRVFYVIETQEPVEKITLTAAHLLFVLDNSTEDLHTMTAAYASSVRAGQKVMVVDDSGQLKSVIVQRIYTEEQRGSFAPVTAHGTIVVDRILASCYAVIEDQGLAHLAFAPARLYYYVSSFLFPQNSSSRSNATLQQEGVHWYSRLLYQMGTWLLDSNMLHPLGMSVNSS |
| 5550 | sp|Q93Y07|SFR2\_ARATH | MELFALLIKVAGLLATVTVGANVVSYSRFRRQNLAKFRSPIDESKEVLADFNSIEHEEGKFFFGLATAPAHAEDDLDDAWLQFAKETPCSAEEAEAADKKARRKKVKLAVGAITKGLAKNTHGKEDKNAADKPPSKNVAAWHNAPHAEDRLKFWSDPDKEVKLAKDTGVTVFRMGVDWSRIMPVEPTKGIKEAVNYEAVEHYKWILKKVRSNGMKVMLTLFHHSLPPWAADYGGWKMEKTVDYFMDFTRIVVDSMYDLVDSWVTFNEPHIFTMLTYMCGSWPGNNPDFLEIATSTLPMGVFHRALHWMAVAHSKAYDYIHGKISLKKPLVGVAHHVSFMRPYGLFDIGAVTISNSLTIFPYIDSICEKLDFIGINYYGQEAVCGAGLKLVETDEYSESGRGVYPDGLYRVLLMFHERYKHLKVPFIVTENGVSDETDVIRRPYLIEHLLALYAAMLKGVPVLGYIFWTISDNWEWADGYGPKFGLVAVDRSHDLARTLRQSYHLFSKIVKSGKVTRKDRSLAWNELQKAAKAGKLRPFYRGVDNHNLMYADGLDKPQWRPFVDRDWRFGHYQMDGLQDPLSRVARTLLIWPLIMKKRIRKVKIKHTDDAGLVLHPALASPFD |
| 5551 | sp|P54751|SIA4A\_MOUSE | MRRKTLKYLTFFLLFIFLTSFVLNYSNTGVPSAWFPKQMLLELSENFRRFIKSQPCTCRHCISQDKVSYWFDQRFNKTMQPLLTVHNALMEEDTYRWWLRLQRERKPNNLSDTVKELFRLVPGNVDPMLNKRLVGCRRCAVVGNSGNLKDSSYGPEIDSHDFVLRMNKAPTVGFEADVGSRTTHHLVYPESFRELGENVNMVLVPFKTTDLQWVISATTTGTITHTYVPVPPKIKVKQEKILIYHPAFIKYVFDNWLQGHGRYPSTGILSIIFSIHICDEVDLYGFGADSKGNWHHYWENNPSAGAFRKTGVHDGDFEYNITTTLAAINKIRIFKGR |
| 5552 | sp|Q11206|SIA4C\_HUMAN | MVSKSRWKLLAMLALVLVVMVWYSISREDRYIELFYFPIPEKKEPCLQGEAESKASKLFGNYSRDQPIFLRLEDYFWVKTPSAYELPYGTKGSEDLLLRVLAITSSSIPKNIQSLRCRRCVVVGNGHRLRNSSLGDAINKYDVVIRLNNAPVAGYEGDVGSKTTMRLFYPESAHFDPKVENNPDTLLVLVAFKAMDFHWIETILSDKKRVRKGFWKQPPLIWDVNPKQIRILNPFFMEIAADKLLSLPMQQPRKIKQKPTTGLLAITLALHLCDLVHIAGFGYPDAYNKKQTIHYYEQITLKSMAGSGHNVSQEALAIKRMLEMGAIKNLTSF |
| 5553 | sp|Q91ZX6|SENP2\_MOUSE | MYRWLAKVLGTILRLCERPAPGARALLKRRRSSSTLFSTAVDTDEIPAKRPRLDCFIHQVKNSLYNAASLFGFPFQLTTKPMVSSACNGTRNVAPSGEVFSNSSSCELMSSGSCSSMLKLGNKSPNGISDYPKIRVTVTRDQPRRVLPSFGFTLKSEGYNRRPSGRRHSKSNPESSLTWKPQEQGVTEMISEEGGKGVRRPHCTVEEGVQKDEREKYRKLLERLKEGAHGSTFPPTVSHHSSQRIQMDTLKTKGWVEEQNHGVRTTHFVPKQYRVVETRGPLCSMRSEKRYSKGKADTEKVVGLRFEKEGTRGHQMEPDLSEEVSARLRLGSGSNGLLRRKISVLEIKEKNFPSKEKDRRTEDLFEFTEDMEKEISNALGHGPPDEILSSAFKLRITRGDIQTLKNYHWLNDEVINFYMNLLVERSKKQGYPALHAFSTFFYPKLKSGGYQAVKRWTKGVNLFEQELVLVPIHRKVHWSLVVMDLRKKCLKYLDSMGQKGHRICEILLQYLQDESKTKRNTDLNLLEWTHYSMKPHEIPQQLNGSDCGMFTCKYADYISRDKPITFTQHQMPLFRKKMVWEILHQQLL |
| 5554 | sp|Q15459|SF3A1\_HUMAN | MPAGPVQAVPPPPPVPTEPKQPTEEEASSKEDSAPSKPVVGIIYPPPEVRNIVDKTASFVARNGPEFEARIRQNEINNPKFNFLNPNDPYHAYYRHKVSEFKEGKAQEPSAAIPKVMQQQQQTTQQQLPQKVQAQVIQETIVPKEPPPEFEFIADPPSISAFDLDVVKLTAQFVARNGRQFLTQLMQKEQRNYQFDFLRPQHSLFNYFTKLVEQYTKILIPPKGLFSKLKKEAENPREVLDQVCYRVEWAKFQERERKKEEEEKEKERVAYAQIDWHDFVVVETVDFQPNEQGNFPPPTTPEELGARILIQERYEKFGESEEVEMEVESDEEDDKQEKAEEPPSQLDQDTQVQDMDEGSDDEEEGQKVPPPPETPMPPPLPPTPDQVIVRKDYDPKASKPLPPAPAPDEYLVSPITGEKIPASKMQEHMRIGLLDPRWLEQRDRSIREKQSDDEVYAPGLDIESSLKQLAERRTDIFGVEETAIGKKIGEEEIQKPEEKVTWDGHSGSMARTQQAAQANITLQEQIEAIHKAKGLVPEDDTKEKIGPSKPNEIPQQPPPPSSATNIPSSAPPITSVPRPPTMPPPVRTTVVSAVPVMPRPPMASVVRLPPGSVIAPMPPIIHAPRINVVPMPPSAPPIMAPRPPPMIVPTAFVPAPPVAPVPAPAPMPPVHPPPPMEDEPTSKKLKTEDSLMPEEEFLRRNKGPVSIKVQVPNMQDKTEWKLNGQVLVFTLPLTDQVSVIKVKIHEATGMPAGKQKLQYEGIFIKDSNSLAYYNMANGAVIHLALKERGGRKK |
| 5555 | sp|Q9ES52|SHIP1\_MOUSE | MPAMVPGWNHGNITRSKAEELLSRAGKDGSFLVRASESIPRAYALCVLFRNCVYTYRILPNEDDKFTVQASEGVPMRFFTKLDQLIDFYKKENMGLVTHLQYPVPLEEEDAIDEAEEDTVESVMSPPELPPRNIPMSAGPSEAKDLPLATENPRAPEVTRLSLSETLFQRLQSMDTSGLPEEHLKAIQDYLSTQLLLDSDFLKTGSSNLPHLKKLMSLLCKELHGEVIRTLPSLESLQRLFDQQLSPGLRPRPQVPGEASPITMVAKLSQLTSLLSSIEDKVKSLLHEGSESTNRRSLIPPVTFEVKSESLGIPQKMHLKVDVESGKLIVKKSKDGSEDKFYSHKKILQLIKSQKFLNKLVILVETEKEKILRKEYVFADSKKREGFCQLLQQMKNKHSEQPEPDMITIFIGTWNMGNAPPPKKITSWFLSKGQGKTRDDSADYIPHDIYVIGTQEDPLGEKEWLELLRHSLQEVTSMTFKTVAIHTLWNIRIVVLAKPEHENRISHICTDNVKTGIANTLGNKGAVGVSFMFNGTSLGFVNSHLTSGSEKKLRRNQNYMNILRFLALGDKKLSPFNITHRFTHLFWLGDLNYRVELPTWEAEAIIQKIKQQQYSDLLAHDQLLLERKDQKVFLHFEEEEITFAPTYRFERLTRDKYAYTKQKATGMKYNLPSWCDRVLWKSYPLVHVVCQSYGSTSDIMTSDHSPVFATFEAGVTSQFVSKNGPGTVDSQGQIEFLACYATLKTKSQTKFYLEFHSSCLESFVKSQEGENEEGSEGELVVRFGETLPKLKPIISDPEYLLDQHILISIKSSDSDESYGEGCIALRLETTEAQHPIYTPLTHHGEMTGHFRGEIKLQTSQGKMREKLYDFVKTERDESSGMKCLKNLTSHDPMRQWEPSGRVPACGVSSLNEMINPNYIGMGPFGQPLHGKSTLSPDQQLTAWSYDQLPKDSSLGPGRGEGPPTPPSQPPLSPKKFSSSTANRGPCPRVQEARPGDLGKVEALLQEDLLLTKPEMFENPLYGSVSSFPKLVPRKEQESPKMLRKEPPPCPDPGISSPSIVLPKAQEVESVKGTSKQAPVPVLGPTPRIRSFTCSSSAEGRMTSGDKSQGKPKASASSQAPVPVKRPVKPSRSEMSQQTTPIPAPRPPLPVKSPAVLQLQHSKGRDYRDNTELPHHGKHRQEEGLLGRTAMQ |
| 5556 | sp|Q9H7N4|SFR19\_HUMAN | MEEEDESRGKTEESGEDRGDGPPDRDPTLSPSAFILRAIQQAVGSSLQGDLPNDKDGSRCHGLRWRRCRSPRSEPRSQESGGTDTATVLDMATDSFLAGLVSVLDPPDTWVPSRLDLRPGESEDMLELVAEVRIGDRDPIPLPVPSLLPRLRAWRTGKTVSPQSNSSRPTCARHLTLGTGDGGPAPPPAPSSASSSPSPSPSSSSPSPPPPPPPPAPPAPPAPRFDIYDPFHPTDEAYSPPPAPEQKYDPFEPTGSNPSSSAGTPSPEEEEEEEEEEEEEEEDEEEEEGLSQSISRISETLAGIYDDNSLSQDFPGDESPRPDAQPTQPTPAPGTPPQVDSTRADGAMRRRVFVVGTEAEACREGKVSVEVVTAGGAALPPPLLPPGDSEIEEGEIVQPEEEPRLALSLFRPGGRAARPTPAASATPTAQPLPQPPAPRAPEGDDFLSLHAESDGEGALQVDLGEPAPAPPAADSRWGGLDLRRKILTQRRERYRQRSPSPAPAPAPAAAAGPPTRKKSRRERKRSGEAKEAASSSSGTQPAPPAPASPWDSKKHRSRDRKPGSHASSSARRRSRSRSRSRSTRRRSRSTDRRRGGSRRSRSREKRRRRRRSASPPPATSSSSSSRRERHRGKHRDGGGSKKKKKRSRSRGEKRSGDGSEKAPAPAPPPSGSTSCGDRDSRRRGAVPPSIQDLTDHDLFAIKRTITVGRLDKSDPRGPSPAPASSPKREVLYDSEGLSGEERGGKSSQKDRRRSGAASSSSSSREKGSRRKALDGGDRDRDRDRDRDRDRSSKKARPPKESAPSSGPPPKPPVSSGSGSSSSSSSCSSRKVKLQSKVAVLIREGVSSTTPAKDAASAGLGSIGVKFSRDRESRSPFLKPDERAPTEMAKAAPGSTKPKKTKVKAKAGAKKTKGTKGKTKPSKTRKKVRSGGGSGGSGGQVSLKKSKADSCSQAAGTKGAEETSWSGEERAAKVPSTPPPKAAPPPPALTPDSQTVDSSCKTPEVSFLPEEATEEAGVRGGAEEEEEEEEEEEEEEEEEEQQPATTTATSTAAAAPSTAPSAGSTAGDSGAEDGPASRVSQLPTLPPPMPWNLPAGVDCTTSGVLALTALLFKMEEANLASRAKAQELIQATNQILSHRKPPSSLGMTPAPVPTSLGLPPGPSSYLLPGSLPLGGCGSTPPTPTGLAATSDKREGSSSSEGRGDTDKYLKKLHTQERAVEEVKLAIKPYYQKKDITKEEYKDILRKAVHKICHSKSGEINPVKVSNLVRAYVQRYRYFRKHGRKPGDPPGPPRPPKEPGPPDKGGPGLPLPPL |
| 5557 | sp|P40075|SCS2\_YEAST | MSAVEISPDVLVYKSPLTEQSTEYASISNNSDQTIAFKVKTTAPKFYCVRPNAAVVAPGETIQVQVIFLGLTEEPAADFKCRDKFLVITLPSPYDLNGKAVADVWSDLEAEFKQQAISKKIKVKYLISPDVHPAQNQNIQENKETVEPVVQDSEPKEVPAVVNEKEVPAEPETQPPVQVKKEEVPPVVQKTVPHENEKQTSNSTPAPQNQIKEAATVPAENESSSMGIFILVALLILVLGWFYR |
| 5558 | sp|Q6P3W7|SCYL2\_HUMAN | MESMLNKLKSTVTKVTADVTSAVMGNPVTREFDVGRHIASGGNGLAWKIFNGTKKSTKQEVAVFVFDKKLIDKYQKFEKDQIIDSLKRGVQQLTRLRHPRLLTVQHPLEESRDCLAFCTEPVFASLANVLGNWENLPSPISPDIKDYKLYDVETKYGLLQVSEGLSFLHSSVKMVHGNITPENIILNKSGAWKIMGFDFCVSSTNPSEQEPKFPCKEWDPNLPSLCLPNPEYLAPEYILSVSCETASDMYSLGTVMYAVFNKGKPIFEVNKQDIYKSFSRQLDQLSRLGSSSLTNIPEEVREHVKLLLNVTPTVRPDADQMTKIPFFDDVGAVTLQYFDTLFQRDNLQKSQFFKGLPKVLPKLPKRVIVQRILPCLTSEFVNPDMVPFVLPNVLLIAEECTKEEYVKLILPELGPVFKQQEPIQILLIFLQKMDLLLTKTPPDEIKNSVLPMVYRALEAPSIQIQELCLNIIPTFANLIDYPSMKNALIPRIKNACLQTSSLAVRVNSLVCLGKILEYLDKWFVLDDILPFLQQIPSKEPAVLMGILGIYKCTFTHKKLGITKEQLAGKVLPHLIPLSIENNLNLNQFNSFISVIKEMLNRLESEHKTKLEQLHIMQEQQKSLDIGNQMNVSEEMKVTNIGNQQIDKVFNNIGADLLTGSESENKEDGLQNKHKRASLTLEEKQKLAKEQEQAQKLKSQQPLKPQVHTPVATVKQTKDLTDTLMDNMSSLTSLSVSTPKSSASSTFTSVPSMGIGMMFSTPTDNTKRNLTNGLNANMGFQTSGFNMPVNTNQNFYSSPSTVGVTKMTLGTPPTLPNFNALSVPPAGAKQTQQRPTDMSALNNLFGPQKPKVSMNQLSQQKPNQWLNQFVPPQGSPTMGSSVMGTQMNVIGQSAFGMQGNPFFNPQNFAQPPTTMTNSSSASNDLKDLFG |
| 5559 | sp|Q8RWZ5|SD25\_ARATH | MRGVFIVIVTCLVFLPDPLRAGVASIGSITPGFGGSQMNYINNDGIFLESNNSAFGFGFVTTQDSVTLFTLSIIHKSSTKLIWSANRASPVSNSDKFVFDDNGNVVMEGTEVWRLDNSGKNASRIELRDSGNLVVVSVDGTSIWESFDHPTDTLITNQAFKEGMKLTSSPSSSNMTYALEIKSGDMVLSVNSLTPQVYWSMANARERIINKDGGVVTSSSLLGNSWRFFDQKQVLLWQFVFSDNKDDNTTWIAVLGNNGVISFSNLGSGASAADSSTKIPSDLCGTPEPCGPYYVCSGSKVCGCVSGLSRARSDCKTGITSPCKKTKDNATLPLQLVSAGDGVDYFALGYAPPFSKKTDLDSCKEFCHNNCSCLGLFFQNSSGNCFLFDYIGSFKTSGNGGSGFVSYIKIASTGSGGGDNGEDDGKHFPYVVIIVVVTVFIIAVLIFVAFRIHKRKKMILEAPQESSEEDNFLENLSGMPIRFAYKDLQSATNNFSVKLGQGGFGSVYEGTLPDGSRLAVKKLEGIGQGKKEFRAEVSIIGSIHHLHLVRLRGFCAEGAHRLLAYEFLSKGSLERWIFRKKDGDVLLDWDTRFNIALGTAKGLAYLHEDCDARIVHCDIKPENILLDDNFNAKVSDFGLAKLMTREQSHVFTTMRGTRGYLAPEWITNYAISEKSDVYSYGMVLLELIGGRKNYDPSETSEKCHFPSFAFKKMEEGKLMDIVDGKMKNVDVTDERVQRAMKTALWCIQEDMQTRPSMSKVVQMLEGVFPVVQPPSSSTMGSRLYSSFFKSISEDGGATTSSGPSDCNSENYLSAVRLSGPR |
| 5560 | sp|P32602|SEC17\_YEAST | MSDPVELLKRAEKKGVPSSGFMKLFSGSDSYKFEEAADLCVQAATIYRLRKELNLAGDSFLKAADYQKKAGNEDEAGNTYVEAYKCFKSGGNSVNAVDSLENAIQIFTHRGQFRRGANFKFELGEILENDLHDYAKAIDCYELAGEWYAQDQSVALSNKCFIKCADLKALDGQYIEASDIYSKLIKSSMGNRLSQWSLKDYFLKKGLCQLAATDAVAAARTLQEGQSEDPNFADSRESNFLKSLIDAVNEGDSEQLSEHCKEFDNFMRLDKWKITILNKIKESIQQQEDDLL |
| 5561 | sp|Q86SQ7|SDCG8\_HUMAN | MAKSPENSTLEEILGQYQRSLREHASRSIHQLTCALKEGDVTIGEDAPNLSFSTSVGNEDARTAWPELQQSHAVNQLKDLLRQQADKESEVSPSRRRKMSPLRSLEHEETNMPTMHDLVHTINDQSQYIHHLEAEVKFCKEELSGMKNKIQVVVLENEGLQQQLKSQRQEETLREQTLLDASGNMHNSWITTGEDSGVGETSKRPFSHDNADFGKAASAGEQLELEKLKLTYEEKCEIEESQLKFLRNDLAEYQRTCEDLKEQLKHKEFLLAANTCNRVGGLCLKCAQHEAVLSQTHTNVHMQTIERLVKERDDLMSALVSVRSSLADTQQREASAYEQVKQVLQISEEANFEKTKALIQCDQLRKELERQAERLEKELASQQEKRAIEKDMMKKEITKEREYMGSKMLILSQNIAQLEAQVEKVTKEKISAINQLEEIQSQLASREMDVTKVCGEMRYQLNKTNMEKDEAEKEHREFRAKTNRDLEIKDQEIEKLRIELDESKQHLEQEQQKAALAREECLRLTELLGESEHQLHLTRQEKDSIQQSFSKEAKAQALQAQQREQELTQKIQQMEAQHDKTENEQYLLLTSQNTFLTKLKEECCTLAKKLEQISQKTRSEIAQLSQEKRYTYDKLGKLQRRNEELEEQCVQHGRVHETMKQRLRQLDKHSQATAQQLVQLLSKQNQLLLERQSLSEEVDRLRTQLPSMPQSDC |
| 5562 | sp|P37090|SCNNB\_RAT | MPVKKYLLKCLHRLQKGPGYTYKELLVWYCNNTNTHGPKRIICEGPKKKAMWFLLTLLFACLVCWQWGVFIQTYLSWEVSVSLSMGFKTMNFPAVTVCNSSPFQYSKVKHLLKDLYKLMEAVLDKILAPKSSHTNTTSTLNFTIWNHTPLVLIDERNPDHPVVLNLFGDSHNSSNPAPGSTCNAQGCKVAMRLCSANGTVCTFRNFTSATQAVTEWYILQATNIFSQVLPQDLVGMGYAPDRIILACLFGTEPCSHRNFTPIFYPDYGNCYIFNWGMTEKALPSANPGTEFGLKLILDIGQEDYVPFLASTAGARLMLHEQRTYPFIREEGIYAMAGTETSIGVLLDKLQGKGEPYSPCTMNGSDVAIQNLYSDYNTTYSIQACLHSCFQDHMIHNCSCGHYLYPLPAGEKYCNNRDFPDWAYCYLSLQMSVVQRETCLSMCKESCNDTQYKMTISMADWPSEASEDWILHVLSQERDQSSNITLSRKGIVKLNIYFQEFNYRTIEESPANNIVWLLSNLGGQFGFWMGGSVLCLIEFGEIIIDFIWITVIKLVASCKGLRRRRPQAPYTGPPPTVAELVEAHTNFGFQPDTTSCRPNAEVYPDQQTLPIPGTPPPNYDSLRLQPLDTMESDSEVEAI |
| 5563 | sp|Q26622|SHR2\_STRPU | MGMVSSQATPVEAYKVQQVQINDQTVEQLVRVQTSAGTTVTTIDAATAERLVKLREEDLIKFSAQGMSQAQMMAKPGMTSPRPIELCAVCGDKASGRHYGAISCEGCKGFFKRSIRKHLGYTCRGNKDCQIIKHNRNRCQYCRLQKCLDMGMKSDSVQCERSPLKTRDKTPGNCAASTDKIYIRKDIRSPLTATPTFVTGSVLAGGDMKSPQGNRQGLFDQGILLNVQTTPTSSPSASTSDSTTDLSTLASVVTSLANMNKKTEEGPSHSQQIYSPSQTLQIISNGDQDVQGGGDNVSKAFDALTKALNTSGDSEAGDLSIDQSANGGSSEVELVKLDSPMLSDHHMQFKLTTPSPMPQFLNVHYICESASRLLFLSMHWARSLPAFQVLSADTHTSMVQKCWSELFTLGLAQCAQAMALSTILTAIVNHLQTSLQQDKLSADRVKAVMEHIWKLQEFVTTTSKLDVDQTEFAYLKTIVLFSPDHPGLSNVRQIEKFQEMAISELHDYEAQTYPSKLNRFSKLLLRLPTLRLLSPAIMEELFFAGLIGNVQIDSIIPYILRMETADYNSAQITMSASPGSLIG |
| 5564 | sp|Q92398|SPM1\_SCHPO | MDRRHRVYRVFNQEMYVEPNFKVVKELGQGAYGIVCAARNVASKDQEAVAIKKITNVFSKSILTKRALREIKLLIHFRNHRNITCIYDLDIINPYNFNEVYIYEELMEADLNAIIKSGQPLTDAHFQSFIYQILCGLKYIHSANVIHRDLKPGNLLVNADCELKICDFGLARGCSENPEENPGFMTEYVATRWYRAPEIMLSFSSYHKGIDVWSVGCILAELLGGTPLFKGKDFVHQLNLILHQLGTPDEETLSHISSSRAQEYVRSLPKQRPIPFETNFPKANPLALDLLAKLLAFDPNRRISVDDALEHPYLAVWHDPSDEPVCDSVFDFSFEYIEDANELRRVILDEVLNFRQKVRRRSHPTNPTVNIPQPAQTVPSNDNGSFNVSSSSSSQTSNKKRHDHSYNETAAIDHKSDDNRHN |
| 5565 | sp|Q9M4A2|SPO11\_ARATH | MEGKFAISESTNLLQRIKDFTQSVVVDLAEGRSPKISINQFRNYCMNPEADCLCSSDKPKGQEIFTLKKEPQTYRIDMLLRVLLIVQQLLQENRHASKRDIYYMHPSAFKAQSIVDRAIGDICILFQCSRYNLNVVSVGNGLVMGWLKFREAGRKFDCLNSLNTAYPVPVLVEEVEDIVSLAEYILVVEKETVFQRLANDMFCKTNRCIVITGRGYPDVSTRRFLRLLMEKLHLPVHCLVDCDPYGFEILATYRFGSMQMAYDIESLRAPDMKWLGAFPSDSEVYSVPKQCLLPLTEEDKKRTEAMLLRCYLKREMPQWRLELETMLKRGVKFEIEALSVHSLSFLSEVYIPSKIRREVSSP |
| 5566 | sp|P31431|SDC4\_HUMAN | MAPARLFALLLFFVGGVAESIRETEVIDPQDLLEGRYFSGALPDDEDVVGPGQESDDFELSGSGDLDDLEDSMIGPEVVHPLVPLDNHIPERAGSGSQVPTEPKKLEENEVIPKRISPVEESEDVSNKVSMSSTVQGSNIFERTEVLAALIVGGIVGILFAVFLILLLMYRMKKKDEGSYDLGKKPIYKKAPTNEFYA |
| 5567 | sp|Q9BYH1|SE6L1\_HUMAN | MPAARPPAAGLRGISLFLALLLGSPAAALERDALPEGDASPLGPYLLPSGAPERGSPGKEHPEERVVTAPPSSSQSAEVLGELVLDGTAPSAHHDIPALSPLLPEEARPKHALPPKKKLPSLKQVNSARKQLRPKATSAATVQRAGSQPASQGLDLLSSSTEKPGPPGDPDPIVASEEASEVPLWLDRKESAVPTTPAPLQISPFTSQPYVAHTLPQRPEPGEPGPDMAQEAPQEDTSPMALMDKGENELTGSASEESQETTTSTIITTTVITTEQAPALCSVSFSNPEGYIDSSDYPLLPLNNFLECTYNVTVYTGYGVELQVKSVNLSDGELLSIRGVDGPTLTVLANQTLLVEGQVIRSPTNTISVYFRTFQDDGLGTFQLHYQAFMLSCNFPRRPDSGDVTVMDLHSGGVAHFHCHLGYELQGAKMLTCINASKPHWSSQEPICSAPCGGAVHNATIGRVLSPSYPENTNGSQFCIWTIEAPEGQKLHLHFERLLLHDKDRMTVHSGQTNKSALLYDSLQTESVPFEGLLSEGNTIRIEFTSDQARAASTFNIRFEAFEKGHCYEPYIQNGNFTTSDPTYNIGTIVEFTCDPGHSLEQGPAIIECINVRDPYWNDTEPLCRAMCGGELSAVAGVVLSPNWPEPYVEGEDCIWKIHVGEEKRIFLDIQFLNLSNSDILTIYDGDEVMPHILGQYLGNSGPQKLYSSTPDLTIQFHSDPAGLIFGKGQGFIMNYIEVSRNDSCSDLPEIQNGWKTTSHTELVRGARITYQCDPGYDIVGSDTLTCQWDLSWSSDPPFCEKIMYCTDPGEVDHSTRLISDPVLLVGTTIQYTCNPGFVLEGSSLLTCYSRETGTPIWTSRLPHCVSEESLACDNPGLPENGYQILYKRLYLPGESLTFMCYEGFELMGEVTIRCILGQPSHWNGPLPVCKVNQDSFEHALEVAEAAAETSLEGGNMALAIFIPVLIISLLLGGAYIYITRCRYYSNLRLPLMYSHPYSQITVETEFDNPIYETGETREYEVSI |
| 5568 | sp|Q8N0X7|SPART\_HUMAN | MEQEPQNGEPAEIKIIREAYKKAFLFVNKGLNTDELGQKEEAKNYYKQGIGHLLRGISISSKESEHTGPGWESARQMQQKMKETLQNVRTRLEILEKGLATSLQNDLQEVPKLYPEFPPKDMCEKLPEPQSFSSAPQHAEVNGNTSTPSAGAVAAPASLSLPSQSCPAEAPPAYTPQAAEGHYTVSYGTDSGEFSSVGEEFYRNHSQPPPLETLGLDADELILIPNGVQIFFVNPAGEVSAPSYPGYLRIVRFLDNSLDTVLNRPPGFLQVCDWLYPLVPDRSPVLKCTAGAYMFPDTMLQAAGCFVGVVLSSELPEDDRELFEDLLRQMSDLRLQANWNRAEEENEFQIPGRTRPSSDQLKEASGTDVKQLDQGNKDVRHKGKRGKRAKDTSSEEVNLSHIVPCEPVPEEKPKELPEWSEKVAHNILSGASWVSWGLVKGAEITGKAIQKGASKLRERIQPEEKPVEVSPAVTKGLYIAKQATGGAAKVSQFLVDGVCTVANCVGKELAPHVKKHGSKLVPESLKKDKDGKSPLDGAMVVAASSVQGFSTVWQGLECAAKCIVNNVSAETVQTVRYKYGYNAGEATHHAVDSAVNVGVTAYNINNIGIKAMVKKTATQTGHTLLEDYQIVDNSQRENQEGAANVNVRGEKDEQTKEVKEAKKKDK |
| 5569 | sp|Q28371|SCN4A\_HORSE | MASSSLPNLVPLGPESLRPFTRASLAAIERRALEEEARLQRNKQMEIQETERNARSDLEAGKNLPLIYGDPPPEVIGIPLEDLDPYYSNKKTFIVLNKGKAIFRFSATPALYMLSPFSIIRRSAIKVLIHSLFSMFIMITILPNCVVMTMSDPPPWPIHVENTFTGINTFESLIKMLARGFCIDDFTFLRDPWNWLDFSVIMMAYLTEFVDLGNISALRTFRVLRALKTITVIPGLKTIVGALIQSVKKLSDVMILTVFCLSVFALVGLQLFMGNLRQKCVRWPQPFNDTNTTWYGNDTWYSNDTWNSNDTWSSNDMWNSHESMASNYTFDWDAYINDEGNFYFLEGAKDALLCGNSSDAGHCPEGYKCIKTGRNPNYGYTSHDTFSWAFLALFRLMIQDYWENLFQLTLRAAGKTYMIFFVVIIFLGSFYLINLILAVVTMAYAEQNEATLAEDQEKEEEFQQMMEKFQKQQEELEKAKADQALEGGEAGGDPAHSKDCNGSLDTSPGEKGPPRQSCSADSGVSDAMEELEEAHQKCPPWWYKCAHKVLIWNCCTPWVKFKNIIHLIVMDPFVDLGITICIVLNTLFMAMEHYPMTEHFDKVLTVGNLVFTGIFTAEMVLKLIALDPYEYFQQGWNVFDSIIVTLSWVELGLVNVKGLSVLRSFRLVRSLKLAKSWPTLNMFIRIIGNSGGGLGNLTLVLAIIVVNFSVVGMQLFGKNYKECVCKNASDCALPRWKMCDFFHSFLIVLRILCGEWIEPMWGFMEVAGQAMFLTVLLMVMVNGNLVDLDLFLALLLNPLNSDNLSASDEDGEMNNLQISSWPIKLGICFANAFLLGLLHGKILSPKDIMLSLGDPGEAGEAGEAEESAPEDEKKEPPPEDDDKDLKKDNHILNHMGLVDGTPTSIELDHLNFINNPYLTIHVPIASEESDLEMPTEEETDTFSEPEDGKKPLQPLDGNSSVCSTADYKPPEEDPEEQAEENPEGEQPEECFTEACVQRFPCLSVDISQGRGKMWWTLRRACFKIVEHHWFKTFNSSLILLNSGTLAFEDIYIEQRRVIRTILEYADKVFTYIFIMEMLLKWVAYGFKVYFTNAWCWLDFLIVDVSIISLVANWLGYSELGPIKSLRTLRALRPLRALSRFEGMRVVVNALLGAIPSIMNVLLVCLIFWVIFSIMGVNLFAAKIYYFINTTTSERFDISGVNNKSECESLIHTGQVRWLNVKVNYDNVGLGYLSLLQVATFKGWMDIMYSAVDSREQEEQPQYEVNIYMYLYFVIFIIFGSFFTINSLIRLIIVNFNQQKKKLGGKDIFMTEEQKKYYNAMKKLGSKKPQKPIPRPQNKIQGMVYDFVTKQVFDITIMILICLNMVTMMVETDDQSQLKVDILYNINMVFIIVFTGECVLKMFALRQNYFTVGWNIFDFVVVILSIVGLALSDLIQKYFVSPTLFRVIRLARIGRVLRLIRGAKGIRTLLFALMMSLPALFNIGLLLILVMFIYSIFGMSNFAYVKKESGIDDMFNFETFGNSIICLFEITTSAGWDGLLNPILNSGPPDCDPTLENPGTSVRGDCGNPSIGICFFCSYIIISFLIVVNMYIAIILENFNVATEESSDPLGEDDFEIFFEKWEKFGPDATQFIDYSRLSDFVDTLQEPLRIAKPNKIKLITLDLPMVPGDKIHCLDILFALTKEVLGDSGEMDALKETMEEKFMAANPSKVSYEPITTTLKRKQEEVCAIKIQRAYRRHLLQRSVKQASYMYRHSQDGSGDGAPEKEGLIANTMSKMYGRENGNSGVQNKGEERGSTGDAGPTMGLTPINPSDSALPPSPPPGLPLHPGVKESLV |
| 5570 | sp|O70492|SNX3\_MOUSE | MAETVADTRRLITKPQNLNDAYGPPSNFLEIDVSNPQTVGVGRGRFTTYEIRVKTNLPIFKLKESTVRRRYSDFEWLRSELERESKVVVPPLPGKAFLRHVPFRGDDGIFDDNFIEERKQGLEQFINKVAGHPLAQNERCLHMFLQDEIIDKSYTPSKIRHA |
| 5571 | sp|P18410|SPO7\_YEAST | MEPESIGDVGNHAQDDSASIVSGPRRRSTSKTSSAKNIRNSSNISPASMIFRNLLILEDDLRRQAHEQKILKWQFTLFLASMAGVGAFTFYELYFTSDYVKGLHRVILQFTLSFISITVVLFHISGQYRRTIVIPRRFFTSTNKGIRQFNVKLVKVQSTWDEKYTDSVRFVSRTIAYCNIYCLKKFLWLKDDNAIVKFWKSVTIQSQPRIGAVDVKLVLNPRAFSAEIREGWEIYRDEFWAREGARRRKQAHELRPKSE |
| 5572 | sp|O13710|SMC5\_SCHPO | MDGLRPSKRRKSNPLYSDYALGSIVRIKLVNFVTYDYCELFPGPYLNLIIGPNGTGKSTIVSAICIGLGWPPKLLGRAKEAREFIKYGKNTATIEIEMKYRDDETVTITRQISQDKSSSFSINREACATSSITSLMDTFNVQLNNLCHFLPQDRVAEFAQLDPYSRLMETERAIDHEGLLPAHEKLIDLRKREREILQNKNQGQSTLNSLKDRQQALEKEVNIFKEREKIKSYIEMLGLAKMLVIYREKTNVFNQLRADKKKLKKDLKDLVEEFQPILDKGEELRSDLKLKDDTFNDYSSASMELNTSNLRARASFSNFMENEKKLYEKVNTNRTLLRNANLTLNEAQQSVKSLTERQGPRPSDNGVQDLQEKMQEVNAEKLQHENEKLESSHELGSIRTLKAQKLIDLDNIKRELSYYNDATKRKLDFMSSAPGWEDAYQTYQLLKEYESAFEAPAYGPIYMNLKCKEKGFAALIEGFFRTDTFRTFIMSNYNDYLKLMDLITSKTKYTPTIREFSSERKKKIEDFEPPCSREKLQSFGFDGYVIDFLEGPEVVLVALCHMLKIHQIPIAKRELPPASVNALNNFRLANGDPVLKTYLAGSSIHLVFRSAYGDREITRRTDPLPSRSIYFSENVEMDLVKRKEEQLNAQLSQLENLQNEERKLQEKVNEHESLLSRTNDILSTLRKERDEKLIPIHEWQQLQERIEHQTLLLRQREKVPEQFAAEIEKNEDIRKENFEALMNSVLKVKENSIKATNNFEKMLGSRLNVIEAKYKLEKHEMDANQVNARLTEVQDRLKDITDKLASAREDAMSLYGSVVDSLQTQSSDRQTAITELNEEFATSSEVDNKISIEETKLKFMNVNSYVMEQYDARKKEIEELESKMSDFDQSVEELQDEMNSIKEDWVSKLEENVQCISDRFSKGMSGMGYAGEVRLGKSDDYDKWYIDILVQFREEEGLQKLTGQRQSGGERSVSTIMYLLSLQGLAIAPFRIVDEINQGMDPRNERVVHRHIVNSVCDNAVSQYFLVTPKLLPDLTYHRNLKVLCICNGAWLPATFRTSLSTYFEKLKKSALISSS |
| 5573 | sp|P24704|SODC1\_ARATH | MAKGVAVLNSSEGVTGTIFFTQEGDGVTTVSGTVSGLKPGLHGFHVHALGDTTNGCMSTGPHFNPDGKTHGAPEDANRHAGDLGNITVGDDGTATFTITDCQIPLTGPNSIVGRAVVVHADPDDLGKGGHELSLATGNAGGRVACGIIGLQG |
| 5574 | sp|Q96BD8|SKA1\_HUMAN | MASSDLEQLCSHVNEKIGNIKKTLSLRNCGQEPTLKTVLNKIGDEIIVINELLNKLELEIQYQEQTNNSLKELCESLEEDYKDIEHLKENVPSHLPQVTVTQSCVKGSDLDPEEPIKVEEPEPVKKPPKEQRSIKEMPFITCDEFNGVPSYMKSRLTYNQINDVIKEINKAVISKYKILHQPKKSMNSVTRNLYHRFIDEETKDTKGRYFIVEADIKEFTTLKADKKFHVLLNILRHCRRLSEVRGGGLTRYVIT |
| 5575 | sp|Q9QX47|SON\_MOUSE | MAADIEQVFRSFVVSKFREIQQELSSGRSEGQLNGETNPPIEGNQAGDTAASARSLPNEEIVQKIEEVLSGVLDTELRYKPDLKEASRKSRCVSVQTDPTDEVPTKKSKKHKKHKNKKKKKKKEKEKKYKRQPEESESKLKSHHDGNLESDSFLKFDSEPSAAALEHPVRAFGLSEASETALVLEPPVVSMEVQESHVLETLKPATKAAELSVVSTSVISEQSEQPMPGMLEPSMTKILDSFTAAPVPMSTAALKSPEPVVTMSVEYQKSVLKSLETMPPETSKTTLVELPIAKVVEPSETLTIVSETPTEVHPEPSPSTMDFPESSTTDVQRLPEQPVEAPSEIADSSMTRPQESLELPKTTAVELQESTVASALELPGPPATSILELQGPPVTPVPELPGPSATPVPELSGPLSTPVPELPGPPATVVPELPGPSVTPVPQLSQELPGPPAPSMGLEPPQEVPEPPVMAQELSGVPAVSAAIELTGQPAVTVAMELTEQPVTTTEFEQPVAMTTVEHPGHPEVTTATGLLGQPEAAMVLELPGQPVATTALELSGQPSVTGVPELSGLPSATRALELSGQSVATGALELPGQLMATGALEFSGQSGAAGALELLGQPLATGVLELPGQPGAPELPGQPVATVALEISVQSVVTTSELSTMTVSQSLEVPSTTALESYNTVAQELPTTLVGETSVTVGVDPLMAQESHMLASNTMETHMLASNTMDSQMLASNTMDSQMLASNTMDSQMLASSTMDSQMLASSTMDSQMLATSTMDSQMLATSSMDSQMLATSSMDSQMLATSSMDSQMLATSSMDSQMLATSSMDSQMLATSSMDSQMLATSSMDSQMLATSSMDSQMLASGAMDSQMLASGTMDAQMLASGTMDAQMLASSTQDSAMMGSKSPDPYRLAQDPYRLAQDPYRLGHDPYRLGHDAYRLGQDPYRLGHDPYRLTPDPYRVSPRPYRIAPRSYRIAPRPYRLAPRPLMLASRRSMMMSYAAERSMMSSYERSMMSYERSMMSPMAERSMMSAYERSMMSAYERSMMSPMAERSMMSAYERSMMSAYERSMMSPMADRSMMSMGADRSMMSSYSAADRSMMSSYSAADRSMMSSYTDRSMMSMAADSYTDSYTDSYTEAYMVPPLPPEEPPTMPPLPPEEPPMTPPLPPEEPPEGPALSTEQSALTADNTWSTEVTLSTGESLSQPEPPVSQSEISEPMAVPANYSMSESETSMLASEAVMTVPEPAREPESSVTSAPVESAVVAEHEMVPERPMTYMVSETTMSVEPAVLTSEASVISETSETYDSMRPSGHAISEVTMSLLEPAVTISQPAENSLELPSMTVPAPSTMTTTESPVVAVTEIPPVAVPEPPIMAVPELPTMAVVKTPAVAVPEPLVAAPEPPTMATPELCSLSVSEPPVAVSELPALADPEHAITAVSGVSSLEPSVPILEPAVSVLQPVMIVSEPSVPVQEPTVAVSEPAVIVSEHTQITSPEMAVESSPVIVDSSVMSSQIMKGMNLLGGDENLGPEVGMQETLLHPGEEPRDGGHLKSDLYENEYDRNADLTVNSHLIVKDAEHNTVCATTVGPVGEASEEKILPISETKEITELATCAAVSEADIGRSLSSQLALELDTVGTSKGFEFVTASALISESKYDVEVSVTTQDTEHDMVISTSPSGGSEADIEGPLPAKDIHLDLPSTNFVCKDVEDSLPIKESAQAVAVALSPKESSEDTEVPLPNKEIVPESGYSASIDEINEADLVRPLLPKDMERLTSLRAGIEGPLLASEVERDKSAASPVVISIPERASESSSEEKDDYEIFVKVKDTHEKSKKNKNRDKGEKEKKRDSSLRSRSKRSKSSEHKSRKRTSESRSRARKRSSKSKSHRSQTRSRSRSRRRRRSSRSRSKSRGRRSVSKEKRKRSPKHRSKSRERKRKRSSSRDNRKAARARSRTPSRRSRSHTPSRRRRSRSVGRRRSFSISPSRRSRTPSRRSRTPSRRSRTPSRRSRTPSRRSRTPSRRRRSRSAVRRRSFSISPVRLRRSRTPLRRRFSRSPIRRKRSRSSERGRSPKRLTDLDKAQLLEIAKANAAAMCAKAGVPLPPNLKPAPPPTIEEKVAKKSGGATIEELTEKCKQIAQSKEDDDVIVNKPHVSDEEEEEPPFYHHPFKLSEPKPIFFNLNIAAAKPTPPKSQVTLTKEFPVSSGSQHRKKEADSVYGEWVPVEKNGEESKDDDNVFSSSLPSEPVDISTAMSERALAQKRLSENAFDLEAMSMLNRAQERIDAWAQLNSIPGQFTGSTGVQVLTQEQLANTGAQAWIKKDQFLRAAPVTGGMGAVLMRKMGWREGEGLGKNKEGNKEPILVDFKTDRKGLVAVGERAQKRSGNFSAAMKDLSGKHPVSALMEICNKRRWQPPEFLLVHDSGPDHRKHFLFRVLRNGSPYQPNCMFFLNRY |
| 5576 | sp|O74536|SNF1\_SCHPO | MQPQEVDLMENSTMRNGARVLPPEAISKRHIGPYIIRETLGEGSFGKVKLATHYKTQQKVALKFISRQLLKKSDMHMRVEREISYLKLLRHPHIIKLYDVITTPTDIVMVIEYAGGELFDYIVEKKRMTEDEGRRFFQQIICAIEYCHRHKIVHRDLKPENLLLDDNLNVKIADFGLSNIMTDGNFLKTSCGSPNYAAPEVINGKLYAGPEVDVWSCGIVLYVMLVGRLPFDDEFIPNLFKKVNSCVYVMPDFLSPGAQSLIRRMIVADPMQRITIQEIRRDPWFNVNLPDYLRPMEEVQGSYADSRIVSKLGEAMGFSEDYIVEALRSDENNEVKEAYNLLHENQVIQEKSHLSKSKRVDSFLSVSPPAFSEYTSELQKKSKQELIDPTLEGPRWTVSDPPTYAKQTIDSNICVLVPTAEKNKLEMRTLADAASAVDTSQSTRKKSRRNKWHFGVRCRGDAPEILLAVYRALQRAGAQFTVPKPVNGKYRSDMYTIKSRWEIPHCKREGKNTYAYIELQLYEVMPGCFMLDVKSNGYKDIYSHPERTADHGMDDLKSSFPFLDLCAMLVCKLFSA |
| 5577 | sp|O78310|SODC2\_ARATH | MAATNTILAFSSPSRLLIPPSSNPSTLRSSFRGVSLNNNNLHRLQSVSFAVKAPSKALTVVSAAKKAVAVLKGTSDVEGVVTLTQDDSGPTTVNVRITGLTPGPHGFHLHEFGDTTNGCISTGPHFNPNNMTHGAPEDECRHAGDLGNINANADGVAETTIVDNQIPLTGPNSVVGRAFVVHELKDDLGKGGHELSLTTGNAGGRLACGVIGLTPL |
| 5578 | sp|Q8BWU1|SPRN\_MOUSE | MNWTAATCWALLLAAAFLCDSCSAKGGRGGARGSARGVRGGARGASRVRVRPAPRYGSSLRVAAAGAAAGAAAGVAAGLATGSGWRRTSGPGELGLEDDENGAMGGNGTDRGVYSYWAWTSGSGSVHSPRICLLLGGTLGALELLRP |
| 5579 | sp|Q13242|SRSF9\_HUMAN | MSGWADERGGEGDGRIYVGNLPTDVREKDLEDLFYKYGRIREIELKNRHGLVPFAFVRFEDPRDAEDAIYGRNGYDYGQCRLRVEFPRTYGGRGGWPRGGRNGPPTRRSDFRVLVSGLPPSGSWQDLKDHMREAGDVCYADVQKDGVGMVEYLRKEDMEYALRKLDDTKFRSHEGETSYIRVYPERSTSYGYSRSRSGSRGRDSPYQSRGSPHYFSPFRPY |
| 5580 | sp|Q2FUW1|SRAP\_STAA8 | MSKRQKAFHDSLANEKTRVRLYKSGKNWVKSGIKEIEMFKIMGLPFISHSLVSQDNQSISKKMTGYGLKTTAVIGGAFTVNMLHDQQAFAASDAPLTSELNTQSETVGNQNSTTIEASTSTADSTSVTKNSSSVQTSNSDTVSSEKSEKVTSTTNSTSNQQEKLTSTSESTSSKNTTSSSDTKSVASTSSTEQPINTSTNQSTASNNTSQSTTPSSVNLNKTSTTSTSTAPVKLRTFSRLAMSTFASAATTTAVTANTITVNKDNLKQYMTTSGNATYDQSTGIVTLTQDAYSQKGAITLGTRIDSNKSFHFSGKVNLGNKYEGHGNGGDGIGFAFSPGVLGETGLNGAAVGIGGLSNAFGFKLDTYHNTSKPNSAAKANADPSNVAGGGAFGAFVTTDSYGVATTYTSSSTADNAAKLNVQPTNNTFQDFDINYNGDTKVMTVKYAGQTWTRNISDWIAKSGTTNFSLSMTASTGGATNLQQVQFGTFEYTESAVTQVRYVDVTTGKDIIPPKTYSGNVDQVVTIDNQQSALTAKGYNYTSVDSSYASTYNDTNKTVKMTNAGQSVTYYFTDVKAPTVTVGNQTIEVGKTMNPIVLTTTDNGTGTVTNTVTGLPSGLSYDSATNSIIGTPTKIGQSTVTVVSTDQANNKSTTTFTINVVDTTAPTVTPIGDQSSEVYSPISPIKIATQDNSGNAVTNTVTGLPSGLTFDSTNNTISGTPTNIGTSTISIVSTDASGNKTTTTFKYEVTRNSMSDSVSTSGSTQQSQSVSTSKADSQSASTSTSGSIVVSTSASTSKSTSVSLSDSVSASKSLSTSESNSVSSSTSTSLVNSQSVSSSMSDSASKSTSLSDSISNSSSTEKSESLSTSTSDSLRTSTSLSDSLSMSTSGSLSKSQSLSTSISGSSSTSASLSDSTSNAISTSTSLSESASTSDSISISNSIANSQSASTSKSDSQSTSISLSTSDSKSMSTSESLSDSTSTSGSVSGSLSIAASQSVSTSTSDSMSTSEIVSDSISTSGSLSASDSKSMSVSSSMSTSQSGSTSESLSDSQSTSDSDSKSLSQSTSQSGSTSTSTSTSASVRTSESQSTSGSMSASQSDSMSISTSFSDSTSDSKSASTASSESISQSASTSTSGSVSTSTSLSTSNSERTSTSMSDSTSLSTSESDSISESTSTSDSISEAISASESTFISLSESNSTSDSESQSASAFLSESLSESTSESTSESVSSSTSESTSLSDSTSESGSTSTSLSNSTSGSTSISTSTSISESTSTFKSESVSTSLSMSTSTSLSDSTSLSTSLSDSTSDSKSDSLSTSMSTSDSISTSKSDSISTSTSLSGSTSESESDSTSSSESKSDSTSMSISMSQSTSGSTSTSTSTSLSDSTSTSLSLSASMNQSGVDSNSASQSASNSTSTSTSESDSQSTSSYTSQSTSQSESTSTSTSLSDSTSISKSTSQSGSVSTSASLSGSESESDSQSISTSASESTSESASTSLSDSTSTSNSGSASTSTSLNNSASASESDLSSTSLSDSTSASMQSSESDSQSTSASLSDSLSTSTSNRMSTIASLSTSVSTSESGSTSESTSESDSTSTSLSDSQSTSRSTSASGSASTSTSTSDSRSTSASTSTSMRTSTSDSQSMSLSTSTSTSMSDSTSLSDSVSDSTSDSTSASTSGSMSVSISLSDSTSTSTSASEVMSASISDSQSMSESVNDSESVSESNSESDSKSMSGSTSVSDSGSLSVSTSLRKSESVSESSSLSCSQSMSDSVSTSDSSSLSVSTSLRSSESVSESDSLSDSKSTSGSTSTSTSGSLSTSTSLSGSESVSESTSLSDSISMSDSTSTSDSDSLSGSISLSGSTSLSTSDSLSDSKSLSSSQSMSGSESTSTSVSDSQSSSTSNSQFDSMSISASESDSMSTSDSSSISGSNSTSTSLSTSDSMSGSVSVSTSTSLSDSISGSTSVSDSSSTSTSTSLSDSMSQSQSTSTSASGSLSTSISTSMSMSASTSSSQSTSVSTSLSTSDSISDSTSISISGSQSTVESESTSDSTSISDSESLSTSDSDSTSTSTSDSTSGSTSTSISESLSTSGSGSTSVSDSTSMSESNSSSVSMSQDKSDSTSISDSESVSTSTSTSLSTSDSTSTSESLSTSMSGSQSISDSTSTSMSGSTSTSESNSMHPSDSMSMHHTHSTSTSRLSSEATTSTSESQSTLSATSEVTKHNGTPAQSEKRLPDTGDSIKQNGLLGGVMTLLVGLGLMKRKKKKDENDQDDSQA |
| 5581 | sp|Q8ND83|SLAI1\_HUMAN | MMAEQVKCASAGVSSGAGSGPVVNAELEVKKLQELVRKLEKQNEQLRSRAASAAAAPHLLLLPPPPPAAPPPAGLQPLGPRSPPAATATAAASGGLGPAFPGTFCLPSPAPSLLCSLAQPPEAPFVYFKPAAGFFGAGGGGPEPGGAGTPPGAAAAPPSPPPTLLDEVELLDLESVAAWRDEDDYTWLYIGSSKTFTSSEKSLTPLQWCRHVLDNPTPEMEAARRSLCFRLEQGYTSRGSPLSPQSSIDSELSTSELEDDSISMGYKLQDLTDVQIMARLQEESLRQDYASTSASVSRHSSSVSLSSGKKGTCSDQEYDQYSLEDEEEFDHLPPPQPRLPRCSPFQRGIPHSQTFSSIRECRRSPSSQYFPSNNYQQQQYYSPQAQTPDQQPNRTNGDKLRRSMPNLARMPSTTAISSNISSPVTVRNSQSFDSSLHGAGNGISRIQSCIPSPGQLQHRVHSVGHFPVSIRQPLKATAYVSPTVQGSSNMPLSNGLQLYSNTGIPTPNKAAASGIMGRSALPRPSLAINGSNLPRSKIAQPVRSFLQPPKPLSSLSTLRDGNWRDGCY |
| 5582 | sp|P16975|SPRC\_RAT | MRAWIFFLLCLAGRALAAPQTEAAEEMVAEETVVEETGLPVGANPVQVEMGEFEEGAEETVEEVVAENPCQNHHCKHGKVCELDESNTPMCVCQDPTSCPAPIGEFEKVCSNDNKTFDSSCHFFATKCTLEGTKKGHKLHLDYIGPCKYIAPCLDSELTEFPLRMRDWLKNVLVTLYERDEGNNLLTEKQKLRVKKIHENEKRLEAGDHPVELLARDFEKNYNMYIFPVHWQFGQLDQHPIDGYLSHTELAPLRAPLIPMEHCTTRFFETCDLDNDKYIALEEWAGCFGIKEQDINKDLVI |
| 5583 | sp|Q16613|SNAT\_HUMAN | MSTQSTHPLKPEAPRLPPGIPESPSCQRRHTLPASEFRCLTPEDAVSAFEIEREAFISVLGVCPLYLDEIRHFLTLCPELSLGWFEEGCLVAFIIGSLWDKERLMQESLTLHRSGGHIAHLHVLAVHRAFRQQGRGPILLWRYLHHLGSQPAVRRAALMCEDALVPFYERFSFHAVGPCAITVGSLTFMELHCSLRGHPFLRRNSGC |
| 5584 | sp|Q16181|SEPT7\_HUMAN | MSVSARSAAAEERSVNSSTMVAQQKNLEGYVGFANLPNQVYRKSVKRGFEFTLMVVGESGLGKSTLINSLFLTDLYSPEYPGPSHRIKKTVQVEQSKVLIKEGGVQLLLTIVDTPGFGDAVDNSNCWQPVIDYIDSKFEDYLNAESRVNRRQMPDNRVQCCLYFIAPSGHGLKPLDIEFMKRLHEKVNIIPLIAKADTLTPEECQQFKKQIMKEIQEHKIKIYEFPETDDEEENKLVKKIKDRLPLAVVGSNTIIEVNGKRVRGRQYPWGVAEVENGEHCDFTILRNMLIRTHMQDLKDVTNNVHYENYRSRKLAAVTYNGVDNNKNKGQLTKSPLAQMEEERREHVAKMKKMEMEMEQVFEMKVKEKVQKLKDSEAELQRRHEQMKKNLEAQHKELEEKRRQFEDEKANWEAQQRILEQQNSSRTLEKNKKKGKIF |
| 5585 | sp|B7FXW1|SQLE\_PHATC | MLVDRVENNEKQQQQMASSSDAMSDSSLSDDEIIEHVVHGKEPKSTYELSWVSNAIAWSGALVWPLMLTVPLLLSSMYSPISYRQVFPESWYVYDTLSNCAPKPLGLVLGILAVAVGQVFVWIFFYLFKFGYLGTDPRSIQSKGAREYIFREGLLTHIGQPEGFVLLIGYLAITWMLKLMPQSYYSFEGTIQYKELFMCLVLQDGIQYTMHVLEHIVSPAFYQMSHKPHHRFTNPRLFDAFNGSLMDTFCMIIIPLFVTANLVRHCNVWTYMAFGSSYACWLTLIHSEYVFPWDGIFRKLGLGTPADHHVHHKFFKFNYGHLFMWFDQLGGTYRDPSGFAPRVFRENV |
| 5586 | sp|Q9Z1W9|STK39\_MOUSE | MAEPSGSPVHVQLSQQAAPVTAAAATAPAAATSAPAPAPAPAPAASAAPAPAPAAAPAPAPAAQAVGWPICRDAYELQEVIGSGATAVVQAALCKPRQERVAIKRINLEKCQTSMDELLKEIQAMSQCSHPNVVTYYTSFVVKDELWLVMKLLSGGSMLDIIKYIVNRGEHKNGVLEEAIIATILKEVLEGLDYLHRNGQIHRDLKAGNILLGEDGSVQIADFGVSAFLATGGDVTRNKVRKTFVGTPCWMAPEVMEQVRGYDFKADMWSFGITAIELATGAAPYHKYPPMKVLMLTLQNDPPTLETGVEDKEMMKKYGKSFRKLLSLCLQKDPSKRPTAAELLKCKFFQKAKNREYLIEKLLTRTPDIAQRAKKVRRVPGSSGHLHKTEDGDWEWSDDEMDEKSEEGKAAASQEKSRRVKEENSEISVNAGGIPEQIQSLSVHDSQAQPNANEDYREGPCAVNLVLRLRNSRKELNDIRFEFTPGRDTADGVSQELFSAGLVDGHDVVIVAANLQKIVDDPKALKTLTFKLASGCDGSEIPDEVKLIGFAQLSVS |
| 5587 | sp|O42874|STU1\_SCHPO | MADKDAQDFLKFLKSNASTDEKTRCLDTLRSFFNKNNIPNADLGLFVECFRLALTTVNPLLLRSSVACFETFLRRLRAQYPTWLKFRVPMLKNLVIDHIASRDLQKRVLNILIDLWHFNPSEIEKSLIHLSTTSKSAETRIQCFKWFVLAHNAHLSFDVKSLRPALYINLENANPSVREEAKEVLLLIYKNLSTSAKMQFITDVETTSGLRREILQSLVEELSLISSSSEVIIVQNSASSFQPAPFMTAVATLYPGVELENVKPLLANFSKQLEQDSASMLPAFEGRETEQNWSVRQDSVLRLRQYLRGNACIDYLPELLSVLKTLLPGILLALLSLRTTLSSSAIQLIKEMAIILKSNIDPFLELILPNLLKVCSVTKKLASQAANVTFAAILVNCGVLSRNLSFISLAAHDTNAQLRVFSSNWIFMLISLSPELKNLASLQTNLKAFEKLICRGLADSNSQVREVYRKSFWKLSEYFPSVQEELTNTLEPSVLKQLHLANPNRQAASFNFSGPKRAPIRPLSNLRSFSKSQKEETSSNSSNSSGTRRLGLPQRATPASRERVLPYTRSQAFHSTSLPPSLPSGHSPSIAIPSKRSVSATIKDESKTFELLKNIQRKYELILSGSSVDLPSAEFLSSNLTDALYSGSSICYSLIFSHSLLDLTFQYVDIASLLSQFLLCVYDPSNVGHSFALASFPYVKSHYDAHKYFPIVFDVLMNISNMAPHVKVFPFNTNQKRLIIHGCLLWLKEISDTKLNQLENKPFFVTDKLRYYSSKILAMTAKTKLTSKNWIPLSGLLFSLRAHDTFMFDGLLDRLNEESRTKLVSSWSKQDAFDYSKSSTHQEHLSKNLPTLNTSSSSNSSQTDLLVPHGKGETKETEMQSPIESKEGLLSKDTHIESPQGTSLEKENEEEGKNPVESNCSEESLDDHNIDQTLVNKKETLAQDSESLLQKNNALNEKGFENQFGLSSSAAKVLNKDTLDHVSGPISNSVSSSFKDFTRTPFKEINGERETGFELTSYVNALSKKDDINVQKTENVDESVGLNAMFMDNVNQDSLNSVDQSSGKDKLLLTSSTPNKPTTFFMPANEEILGSPAKDYDIHDQSYSVHELHSENMRENVGQSSLIYNNRDYMNTPMNDFSLSFSEIKGGILESPVESPMTGTISPIDADESVLHDIPAYESLNKSESNKYQEQAYSTPLHHTLNVLPKNKWILSRMHKMENGSPINVDKNLDDAVAALEAAVKELNDGSVNTKTLKFCIKVCKETPSMLYHSHGLLPAILHYIESNNSAMHISDCLILLHEFLVQGYQGVDMHTYHNIICILIEKAEKCKDEPVILAGIEDNITLIAEIADLQGLYEFTQQRLQSLNTETGEKSAPLLLMLLSAILMRLKDLEFLETKDLLRHVVLKYIDHTNPEIRKATFNVCLAVNTIVNNVDETFSILGGLNEGQRLLFMHYLKMKSDEKN |
| 5588 | sp|P46549|SULU\_CAEEL | MAPAVLQKPGVIKDPSIAALFSNKDPEQRYQDLREIGHGSFGAVYFAYDKKNEQTVAIKKMNFSGKQAVEKWNDILKEVSFLNTVVHPHIVDYKACFLKDTTCWLVMEYCIGSAADIVDVLRKGMREVEIAAICSQTLDALRYLHSLKRIHRDIKAGNILLSDHAIVKLADFGSASLVDPAQTFIGTPFFMAPEVILAMDEGHYTDRADIWSLGITCIELAERRPPLFSMNAMSALYHIAQNDPPTLSPIDTSEQPEWSLEFVQFIDKCLRKPAEERMSAEECFRHPFIQRSRPSDTIQELIQRTKNMVLELDNFQYKKMRKLMYLDETEGKEGSEGNGASDDLDFHGNEANSIGRAGDSASSRSASLTSFRSMQSSGGAGLLVSTNTTGAMDNVHGSSGYGNGSSSTTSSARRRPPIPSQMLSSTSTSGVGTMPSHGSVGASITAIAVNPTPSPSEPIPTSQPTSKSESSSILETAHDDPLDTSIRAPVKDLHMPHRAVKERIATLQNHKFATLRSQRIINQEQEEYTKENNMYEQMSKYKHLRQAHHKELQQFEERCALDREQLRVKMDRELEQLTTTYSKEKMRVRCSQNNELDKRKKDIEDGEKKMKKTKNSQNQQQMKLYSAQQLKEYKYNKEAQKTRLRSLNMPRSTYENAMKEVKADLNRVKDARENDFDEKLRAELEDEIVRYRRQQLSNLHQLEEQLDDEDVNVQERQMDTRHGLLSKQHEMTRDLEIQHLNELHAMKKRHLETQHEAESASQNEYTQRQQDELRKKHAMQSRQQPRDLKIQEAQIRKQYRQVVKTQTRQFKLYLTQMVQVVPKDEQKELTSRLKQDQMQKVALLASQYESQIKKMVQDKTVKLESWQEDEQRVLSEKLEKELEELIAYQKKTRATLEEQIKKERTALEERIGTRRAMLEQKIIEEREQMGEMRRLKKEQIRDRHSQERHRLENHFVRTGSTSRSSGGIAPGVGNSSSIQMAM |
| 5589 | sp|Q99KH8|STK24\_MOUSE | MAHSPVQSGLPGMQNLKADPEELFTKLEKIGKGSFGEVFKGIDNRTQKVVAIKIIDLEEAEDEIEDIQQEITVLSQCDSPYVTKYYGSYLKDTKLWIIMEYLGGGSALDLLEPGPLDEIQIATILREILKGLDYLHSEKKIHRDIKAANVLLSEHGEVKLADFGVAGQLTDTQIKRNTFVGTPFWMAPEVIKQSAYDSKADIWSLGITAIELAKGEPPHSELHPMKVLFLIPKNNPPTLEGNYSKPLKEFVEACLNKEPSFRPTAKELLKHKFIIRNAKKTSYLTELIDRYKRWKAEQSHEDSSSEDSDVETDGQASGGSDSGDWIFTIREKDPKNLENGTLQLSDLERNKMKDIPKRPFSQCLSTIISPLFAELKEKSQACGGNLGSIEELRGAIYLAEEACPGISDTMVAQLVQRLQRYSLSGGGASAH |
| 5590 | sp|Q9WVF8|TUSC2\_MOUSE | MGASGSKARGLWPFASTPGGGGPEAAGSEQSLVRSRARAVPPFVFTRRGSMFYDEDGDLAHEFYEETIVTKNGQKRAKLRRVHKNLIPQGIVKLDPPRIHVDFPVILYEV |
| 5591 | sp|P41732|TSN7\_HUMAN | MASRRMETKPVITCLKTLLIIYSFVFWITGVILLAVGVWGKLTLGTYISLIAENSTNAPYVLIGTGTTIVVFGLFGCFATCRGSPWMLKLYAMFLSLVFLAELVAGISGFVFRHEIKDTFLRTYTDAMQTYNGNDERSRAVDHVQRSLSCCGVQNYTNWSTSPYFLEHGIPPSCCMNETDCNPQDLHNLTVAATKVNQKGCYDLVTSFMETNMGIIAGVAFGIAFSQLIGMLLACCLSRFITANQYEMV |
| 5592 | sp|P40222|TXLNA\_HUMAN | MKNQDKKNGAAKQSNPKSSPGQPEAGPEGAQERPSQAAPAVEAEGPGSSQAPRKPEGAQARTAQSGALRDVSEELSRQLEDILSTYCVDNNQGGPGEDGAQGEPAEPEDAEKSRTYVARNGEPEPTPVVNGEKEPSKGDPNTEEIRQSDEVGDRDHRRPQEKKKAKGLGKEITLLMQTLNTLSTPEEKLAALCKKYAELLEEHRNSQKQMKLLQKKQSQLVQEKDHLRGEHSKAVLARSKLESLCRELQRHNRSLKEEGVQRAREEEEKRKEVTSHFQVTLNDIQLQMEQHNERNSKLRQENMELAERLKKLIEQYELREEHIDKVFKHKDLQQQLVDAKLQQAQEMLKEAEERHQREKDFLLKEAVESQRMCELMKQQETHLKQQLALYTEKFEEFQNTLSKSSEVFTTFKQEMEKMTKKIKKLEKETTMYRSRWESSNKALLEMAEEKTVRDKELEGLQVKIQRLEKLCRALQTERNDLNKRVQDLSAGGQGSLTDSGPERRPEGPGAQAPSSPRVTEAPCYPGAPSTEASGQTGPQEPTSARA |
| 5593 | sp|P38820|UBA4\_YEAST | MNDYHLEDTTSELEALRLENAQLREQLAKREDSSRDYPLSLEEYQRYGRQMIVEETGGVAGQVKLKNTKVLVVGAGGLGCPALPYLAGAGVGQIGIVDNDVVETSNLHRQVLHDSSRVGMLKCESARQYITKLNPHINVVTYPVRLNSSNAFDIFKGYNYILDCTDSPLTRYLVSDVAVNLGITVVSASGLGTEGQLTILNFNNIGPCYRCFYPTPPPPNAVTSCQEGGVIGPCIGLVGTMMAVETLKLILGIYTNENFSPFLMLYSGFPQQSLRTFKMRGRQEKCLCCGKNRTITKEAIEKGEINYELFCGARNYNVCEPDERISVDAFQRIYKDDEFLAKHIFLDVRPSHHYEISHFPEAVNIPIKNLRDMNGDLKKLQEKLPSVEKDSNIVILCRYGNDSQLATRLLKDKFGFSNVRDVRGGYFKYIDDIDQTIPKY |
| 5594 | sp|O70475|UGDH\_MOUSE | MVEIKKICCIGAGYVGGPTCSVIAHMCPEIRVTVVDVNEARINAWNSPTLPIYEPGLKEVVESCRGKNLFFSTNIDDAIREADLVFISVNTPTKTYGMGKGRAADLKYIEACARRIVQNSNGYKIVTEKSTVPVRAAESIRRIFDANTKPNLNLQVLSNPEFLAEGTAIKDLKNPDRVLIGGDETPEGQKAVRALCAVYEHWVPKEKILTTNTWSSELSKLAANAFLAQRISSINSISALCEATGADVEEVATAIGMDQRIGNKFLKASVGFGGSCFQKDVLNLVYLCEALNLPEVARYWQQVIDMNDYQRRRFASRIIDSLFNTVTDKKIAILGFAFKKDTGDTRESSSIYISKYLMDEGAHLHIYDPKVPREQIVVDLSHPGVSADDQVSRLVTISKDPYEACDGAHALVICTEWDMFKELDYERIHKKMLKPAFIFDGRRVLDGLHSELQTIGFQIETIGKKVSSKRIPYTPGEIPKFSLQDPPNKKPKV |
| 5595 | sp|Q9R085|UBP15\_RAT | MAEGGAADLDTQRSDIATLLKTSLRKGDTWYLVDSRWFKQWKKYVGFDSWDKYQMGDQNVYPGPIDNSGLLKDGDAQSLKEHLIDELDYILLPTEGWNKLVSWYTLMEGQEPIARKVVEQGMFVKHCKVEVYLTELKLCENGNMNNVVTRRFSKADTIDTIEKEIRKIFNIPDEKEARLWNKYMSNTFEPLNKPDSTIQDAGLYQGQVLVIEQKNEDGTWPRGPSAPNVKNSNYCLPSYTAYKNYDYSEPGRNNEQPGLCGLSNLGNTCFMNSAIQCLSNTPPLTEYFLNDKYQEELNFDNPLGMRGEIAKSYAELIKQMWSGKFSYVTPRAFKTQVGRFAPQFSGYQQQDCQELLAFLLDGLHEDLNRIRKKPYIQLKDADGRPDKVVAEEAWENHLKRNDSIIVDIFHGLFKSTLVCPECAKISVTFDPFCYLTLPLPMKKERSLEVYLVRMDPLAKPMQYKVIVPKIGNILDLCTALSALSGVPADKMIVTDIYNHRFHRIFAMDENLSSIMERDDIYVFEININRTEDTEHVVIPVCLREKFRHSSYTHHTGSSLFGQPFLMAVPRNNTEDKLYNLLLLRMCRYVKMSTETEETDGPLRCCEDQNINGNGPNGIHEEGSPSEMETDEPDDESSQDQELPSENENSQSEDSVGGDNDSENGLCTEETCKGRLTGHKKRLFTFQFNNLGNTDINYIKDDTRHIRFDDRQLRLDERSFLALDWDPDLKKRYFDENAAEDFEKHESVEYKPPKRPFVKLKDCIELFTTKEKLGAEDPWYCPNCKEHQQATKKLDLWSLPPVLVVHLKRFSYSRYMRDKLDTLVDFPISDLDMSEFLINPNAGPCRYNLIAVSNHYGGMGGGHYTAFAKNKDDGKWYYFDDSSVSSASEDQIVSKAAYVLFYQRQDTFSGTGFFPLDRETKGASAATGVPLESDEDSNDNDNDLENENCMHTN |
| 5596 | sp|Q9HAW8|UD110\_HUMAN | MARAGWTSPVPLCVCLLLTCGFAEAGKLLVVPMDGSHWFTMQSVVEKLILRGHEVVVVMPEVSWQLERSLNCTVKTYSTSYTLEDQNREFMVFAHAQWKAQAQSIFSLLMSSSSGFLDLFFSHCRSLFNDRKLVEYLKESSFDAVFLDPFDTCGLIVAKYFSLPSVVFTRGIFCHHLEEGAQCPAPLSYVPNDLLGFSDAMTFKERVWNHIVHLEDHLFCQYLFRNALEIASEILQTPVTAYDLYSHTSIWLLRTDFVLDYPKPVMPNMIFIGGINCHQGKPLPMEFEAYINASGEHGIVVFSLGSMVSEIPEKKAMAIADALGKIPQTVLWRYTGTRPSNLANNTILVKWLPQNDLLGHPMTRAFITHAGSHGVYESICNGVPMVMMPLFGDQMDNAKRMETKGAGVTLNVLEMTSEDLENALKAVINDKSYKENIMRLSSLHKDRPVEPLDLAVFWVEFVMRHKGAPHLRPAAHDLTWYQYHSLDVIGFLLAVVLTVAFITFKCCAYGYRKCLGKKGRVKKAHKSKTH |
| 5597 | sp|Q5W0Q7|USPL1\_HUMAN | MMDSPKIGNGLPVIGPGTDIGISSLHMVGYLGKNFDSAKVPSDEYCPACREKGKLKALKTYRISFQESIFLCEDLQCIYPLGSKSLNNLISPDLEECHTPHKPQKRKSLESSYKDSLLLANSKKTRNYIAIDGGKVLNSKHNGEVYDETSSNLPDSSGQQNPIRTADSLERNEILEADTVDMATTKDPATVDVSGTGRPSPQNEGCTSKLEMPLESKCTSFPQALCVQWKNAYALCWLDCILSALVHSEELKNTVTGLCSKEESIFWRLLTKYNQANTLLYTSQLSGVKDGDCKKLTSEIFAEIETCLNEVRDEIFISLQPQLRCTLGDMESPVFAFPLLLKLETHIEKLFLYSFSWDFECSQCGHQYQNRHMKSLVTFTNVIPEWHPLNAAHFGPCNNCNSKSQIRKMVLEKVSPIFMLHFVEGLPQNDLQHYAFHFEGCLYQITSVIQYRANNHFITWILDADGSWLECDDLKGPCSERHKKFEVPASEIHIVIWERKISQVTDKEAACLPLKKTNDQHALSNEKPVSLTSCSVGDAASAETASVTHPKDISVAPRTLSQDTAVTHGDHLLSGPKGLVDNILPLTLEETIQKTASVSQLNSEAFLLENKPVAENTGILKTNTLLSQESLMASSVSAPCNEKLIQDQFVDISFPSQVVNTNMQSVQLNTEDTVNTKSVNNTDATGLIQGVKSVEIEKDAQLKQFLTPKTEQLKPERVTSQVSNLKKKETTADSQTTTSKSLQNQSLKENQKKPFVGSWVKGLISRGASFMPLCVSAHNRNTITDLQPSVKGVNNFGGFKTKGINQKASHVSKKARKSASKPPPISKPPAGPPSSNGTAAHPHAHAASEVLEKSGSTSCGAQLNHSSYGNGISSANHEDLVEGQIHKLRLKLRKKLKAEKKKLAALMSSPQSRTVRSENLEQVPQDGSPNDCESIEDLLNELPYPIDIASESACTTVPGVSLYSSQTHEEILAELLSPTPVSTELSENGEGDFRYLGMGDSHIPPPVPSEFNDVSQNTHLRQDHNYCSPTKKNPCEVQPDSLTNNACVRTLNLESPMKTDIFDEFFSSSALNALANDTLDLPHFDEYLFENY |
| 5598 | sp|Q9UPW8|UN13A\_HUMAN | MSLLCVGVKKAKFDGAQEKFNTYVTLKVQNVKSTTIAVRGSQPSWEQDFMFEINRLDLGLTVEVWNKGLIWDTMVGTVWIPLRTIRQSNEEGPGEWLTLDSQVIMADSEICGTKDPTFHRILLDTRFELPLDIPEEEARYWAKKLEQLNAMRDQDEYSFQDEQDKPLPVPSNQCCNWNYFGWGEQHNDDPDSAVDDRDSDYRSETSNSIPPPYYTTSQPNASVHQYSVRPPPLGSRESYSDSMHSYEEFSEPQALSPTGSSRYASSGELSQGSSQLSEDFDPDEHSLQGSDMEDERDRDSYHSCHSSVSYHKDSPRWDQDEEELEEDLEDFLEEEELPEDEEELEEEEEEVPDDLGSYAQREDVAVAEPKDFKRISLPPAAPGKEDKAPVAPTEAPDMAKVAPKPATPDKVPAAEQIPEAEPPKDEESFRPREDEEGQEGQDSMSRAKANWLRAFNKVRMQLQEARGEGEMSKSLWFKGGPGGGLIIIDSMPDIRKRKPIPLVSDLAMSLVQSRKAGITSALASSTLNNEELKNHVYKKTLQALIYPISCTTPHNFEVWTATTPTYCYECEGLLWGIARQGMRCTECGVKCHEKCQDLLNADCLQRAAEKSSKHGAEDRTQNIIMVLKDRMKIRERNKPEIFELIQEIFAVTKTAHTQQMKAVKQSVLDGTSKWSAKISITVVCAQGLQAKDKTGSSDPYVTVQVGKTKKRTKTIYGNLNPVWEENFHFECHNSSDRIKVRVWDEDDDIKSRVKQRFKRESDDFLGQTIIEVRTLSGEMDVWYNLDKRTDKSAVSGAIRLHISVEIKGEEKVAPYHVQYTCLHENLFHFVTDVQNNGVVKIPDAKGDDAWKVYYDETAQEIVDEFAMRYGVESIYQAMTHFACLSSKYMCPGVPAVMSTLLANINAYYAHTTASTNVSASDRFAASNFGKERFVKLLDQLHNSLRIDLSMYRNNFPASSPERLQDLKSTVDLLTSITFFRMKVQELQSPPRASQVVKDCVKACLNSTYEYIFNNCHELYSREYQTDPAKKGEVLPEEQGPSIKNLDFWSKLITLIVSIIEEDKNSYTPCLNQFPQELNVGKISAEVMWNLFAQDMKYAMEEHDKHRLCKSADYMNLHFKVKWLYNEYVTELPAFKDRVPEYPAWFEPFVIQWLDENEEVSRDFLHGALERDKKDGFQQTSEHALFSCSVVDVFSQLNQSFEIIKKLECPDPQIVGHYMRRFAKTISNVLLQYADIISKDFASYCSKEKEKVPCILMNNTQQLRVQLEKMFEAMGGKELDAEASDILKELQVKLNNVLDELSRVFATSFQPHIEECVKQMGDILSQVKGTGNVPASACSSVAQDADNVLQPIMDLLDSNLTLFAKICEKTVLKRVLKELWKLVMNTMEKTIVLPPLTDQTMIGNLLRKHGKGLEKGRVKLPSHSDGTQMIFNAAKELGQLSKLKDHMVREEAKSLTPKQCAVVELALDTIKQYFHAGGVGLKKTFLEKSPDLQSLRYALSLYTQATDLLIKTFVQTQSAQGLGVEDPVGEVSVHVELFTHPGTGEHKVTVKVVAANDLKWQTSGIFRPFIEVNIIGPQLSDKKRKFATKSKNNSWAPKYNESFQFTLSADAGPECYELQVCVKDYCFAREDRTVGLAVLQLRELAQRGSAACWLPLGRRIHMDDTGLTVLRILSQRSNDEVAKEFVKLKSDTRSAEEGGAAPAP |
| 5599 | sp|O00124|UBXN8\_HUMAN | MASRGVVGIFFLSAVPLVCLELRRGIPDIGIKDFLLLCGRILLLLALLTLIISVTTSWLNSFKSPQVYLKEEEEKNEKRQKLVRKKQQEAQGEKASRYIENVLKPHQEMKLRKLEERFYQMTGEAWKLSSGHKLGGDEGTSQTSFETSNREAAKSQNLPKPLTEFPSPAEQPTCKEIPDLPEEPSQTAEEVVTVALRCPSGNVLRRRFLKSYSSQVLFDWMTRIGYHISLYSLSTSFPRRPLAVEGGQSLEDIGITVDTVLILEEKEQTN |
| 5600 | sp|P0DTE4|UD2A1\_HUMAN | MLNNLLLFSLQISLIGTTLGGNVLIWPMEGSHWLNVKIIIDELIKKEHNVTVLVASGALFITPTSNPSLTFEIYRVPFGKERIEGVIKDFVLTWLENRPSPSTIWRFYQEMAKVIKDFHMVSQEICDGVLKNQQLMAKLKKSKFEVLVSDPVFPCGDIVALKLGIPFMYSLRFSPASTVEKHCGKVPYPPSYVPAVLSELTDQMSFTDRIRNFISYHLQDYMFETLWKSWDSYYSKALGRPTTLCETMGKAEIWLIRTYWDFEFPRPYLPNFEFVGGLHCKPAKPLPKEMEEFIQSSGKNGVVVFSLGSMVKNLTEEKANLIASALAQIPQKVLWRYKGKKPATLGNNTQLFDWIPQNDLLGHPKTKAFITHGGTNGIYEAIYHGVPMVGVPMFADQPDNIAHMKAKGAAVEVNLNTMTSVDLLSALRTVINEPSYKENAMRLSRIHHDQPVKPLDRAVFWIEFVMRHKGAKHLRVAAHDLTWFQYHSLDVIGFLLVCVTTAIFLVIQCCLFSCQKFGKIGKKKKRE |
| 5601 | sp|P39001|UME6\_YEAST | MLDKARSQSKHMDESNAAASLLSMETTANNHHYLHNKTSRATLMNSSQDGKKHAEDEVSDGANSRHPTISSASIESLKTTYDENPLLSIMKSTCAPNNTPVHTPSGSPSLKVQSGGDIKDDPKENDTTTTTNTTLQDRRDSDNAVHAAASPLAPSNTPSDPKSLCNGHVAQATDPQISGAIQPQYTATNEDVFPYSSTSTNSNTATTTIVAGAKKKIHLPPPQAPAVSSPGTTAAGSGAGTGSGIRSRTGSDLPLIITSANKNNGKTTNSPMSILSRNNSTNNNDNNSIQSSDSRESSNNNEIGGYLRGGTKRGGSPSNDSQVQHNVHDDQCAVGVAPRNFYFNKDREITDPNVKLDENESKINISFWLNSKYRDEAYSLNESSSNNASSNTDTPTNSRHANTSSSITSRNNFQHFRFNQIPSQPPTSASSFTSTNNNNPQRNNINRGEDPFATSSRPSTGFFYGDLPNRNNRNSPFHTNEQYIPPPPPKYINSKLDGLRSRLLLGPNSASSSTKLDDDLGTAAAVLSNMRSSPYRTHDKPISNVNDMNNTNALGVPASRPHSSSFPSKGVLRPILLRIHNSEQQPIFESNNSTAVFDEDQDQNQDLSPYHLNLNSKKVLDPTFESRTRQVTWNKNGKRIDRRLSAPEQQQQLEVPPLKKSRRSVGNARVASQTNSDYNSLGESSTSSAPSSPSLKASSGLAYTADYPNATSPDFAKSKGKNVKPKAKSKAKQSSKKRPNNTTSKSKANNSQESNNATSSTSQGTRSRTGCWICRLRKKKCTEERPHCFNCERLKLDCHYDAFKPDFVSDPKKKQMKLEEIKKKTKEAKRRAMKKK |
| 5602 | sp|Q06318|UTER\_MOUSE | MKIAITITVVMLSICCSSASSDICPGFLQVLEALLMESESGYVASLKPFNPGSDLQNAGTQLKRLVDTLPQETRINIMKLTEKILTSPLCKQDLRF |
| 5603 | sp|Q9H3U1|UN45A\_HUMAN | MTVSGPGTPEPRPATPGASSVEQLRKEGNELFKCGDYGGALAAYTQALGLDATPQDQAVLHRNRAACHLKLEDYDKAETEASKAIEKDGGDVKALYRRSQALEKLGRLDQAVLDLQRCVSLEPKNKVFQEALRNIGGQIQEKVRYMSSTDAKVEQMFQILLDPEEKGTEKKQKASQNLVVLAREDAGAEKIFRSNGVQLLQRLLDMGETDLMLAALRTLVGICSEHQSRTVATLSILGTRRVVSILGVESQAVSLAACHLLQVMFDALKEGVKKGFRGKEGAIIVDPARELKVLISNLLDLLTEVGVSGQGRDNALTLLIKAVPRKSLKDPNNSLTLWVIDQGLKKILEVGGSLQDPPGELAVTANSRMSASILLSKLFDDLKCDAERENFHRLCENYIKSWFEGQGLAGKLRAIQTVSCLLQGPCDAGNRALELSGVMESVIALCASEQEEEQLVAVEALIHAAGKAKRASFITANGVSLLKDLYKCSEKDSIRIRALVGLCKLGSAGGTDFSMKQFAEGSTLKLAKQCRKWLCNDQIDAGTRRWAVEGLAYLTFDADVKEEFVEDAAALKALFQLSRLEERSVLFAVASALVNCTNSYDYEEPDPKMVELAKYAKQHVPEQHPKDKPSFVRARVKKLLAAGVVSAMVCMVKTESPVLTSSCRELLSRVFLALVEEVEDRGTVVAQGGGRALIPLALEGTDVGQTKAAQALAKLTITSNPEMTFPGERIYEVVRPLVSLLHLNCSGLQNFEALMALTNLAGISERLRQKILKEKAVPMIEGYMFEEHEMIRRAATECMCNLAMSKEVQDLFEAQGNDRLKLLVLYSGEDDELLQRAAAGGLAMLTSMRPTLCSRIPQVTTHWLEILQALLLSSNQELQHRGAVVVLNMVEASREIASTLMESEMMEILSVLAKGDHSPVTRAAAACLDKAVEYGLIQPNQDGE |
| 5604 | sp|Q00981|UCHL1\_RAT | MQLKPMEINPEMLNKVLAKLGVAGQWRFADVLGLEEETLGSVPSPACALLLLFPLTAQHENFRKKQIEELKGQEVSPKVYFMKQTIGNSCGTIGLIHAVANNQDKLEFEDGSVLKQFLSETEKLSPEDRAKCFEKNEAIQAAHDSVAQEGQCRVDDKVNFHFILFNNVDGHLYELDGRMPFPVNHGASSEDSLLQDAAKVCREFTEREQGEVRFSAVALCKAA |
| 5605 | sp|P07056|UCRI\_NEUCR | MAPVSIVSRAAMRAAAAPARAVRALTTSTALQGSSSSTFESPFKGESKAAKVPDFGKYMSKAPPSTNMLFSYFMVGTMGAITAAGAKSTIQEFLKNMSASADVLAMAKVEVDLNAIPEGKNVIIKWRGKPVFIRHRTPAEIEEANKVNVATLRDPETDADRVKKPEWLVMLGVCTHLGCVPIGEAGDYGGWFCPCHGSHYDISGRIRKGPAPLNLEIPLYEFPEEGKLVIG |
| 5606 | sp|P34374|UNC36\_CAEEL | MRVVHLLVVLATYVSTTSSFNKESIKECAKVLSEHMKETFSKISHETILKQNYEKLVEEEQFDPRAELKKSKHRIEDYLKVRSQFAYKAKISLEARSVRNDSTVNDPQSKSFIRFMSAKQGNDGTTIYESNHLGKRLKVNETKSFNLTQNANFYTLPTSSVSSAVHIPTPLYDRNEDLLRKIDWSDIDAVYRTNREETKDLAFQLFCSEAGYMRYYPAASWFWDNQDEHLDLFDCRNTEWYINSATNSKNVLIMLDMSGSMLGQRYEVAKQTTEAILETLSHNDYFNIMTFSKNTFLLDGCNGTNGLLQATMRNKKALRRKMDTYQSEGKAEYEKALPLAFSVLLDLKGSYALYTKEEMSMMSANATNEYQFHLELPEHVLAATKQYIDSINNGGGDNNRGACENVIMLITDGAPNAYKKIFDMYNADKKVRVFTFLVGDEAIDFNEVREMACNNRGYMVHVANMADVDEKIHHYIRRMSRVVGRHYKESGQLSWWTGVYRERLYLPRPEIFAEPVPITNQSFAVMNKMASRRKIRLQKSEARSRMFVTTVSYPVIVNETFMGVAAVNIPLTEVAQKSHPANIGSKSYFFMLDQNGFVMTHPQLRPIDPFTKYHKQNYNNMDLLELEVGQNQNVRSSQKSQAVSDLVCESGANYAECVDDLRKAVRKMIIDCDNSDVQQLDVLYATELLDRVYPQTNTYYAECINHANFVLGLAVAKGDDYRVVKKQKKYDFGRVKMDWMGDKRWRLHPHWRYCFLNDTDTHMSKEEAFEIYAQQMSDSGKAPLLCEYRRNLVEKLLLDMEATSNLIDSWDTQFNFMKNNLIHLAFFATPSGMIRYYNLTLQDYDYIDPYWSIFEHIGHLLSIEHAQESYNHFITDLNRKSTDDRYYRRAVRMKDTIMFDVSNNSKIWYKSETQLTGYGLNENLTMLGQAFKAIYLDKAVLGVSGFEFAYDHVVDTMAEHGCPASDDRKWCVLLDEHAYVFFSNQNDISYEDYLVGKGKHISQYFGGLNRIAQRAMALLVENKFYTKLTYTDNQAVCKAEKVVTTSGNRLRPFYPIFRFLMQTFNFMVRLASQISGGFLIWLPNIQFTEAYTASFHEGTDVYPCPKQSSFYFSNKDGKNRPGTTHLVNGNRSERPCKMNAKCSVKMEASFVDGTNLVMVWITQDKASENCYDESECSMEISNQVPFGFEEVKNEETCEENEKRKSKANDVCYSIDDDDSENERRPCSTSPTIVSIFQILFGVFLHFCIF |
| 5607 | sp|P36511|UDB15\_RAT | MSGKWISALLLLQISFCFKSGNCGKVLVWPMEYSHWMNIKIILEELVQKGHEVTVLRPSAFVFLDPKETSDLKFVTFPTSFSSHDLENFFTRFVNVWTYELPRDTCLSYFLYLQDTIDEYSDYCLTVCKEAVSNKQFMTKLQESKFDVVFSDAIGPCGELIAELLQIPFLYSLRFSPGYTIEQYIGGVLFPPSYVPMIFSGLAGQMTFIERVHNMICMLYFDFWFQTFREKKWDPFYSKTLGRPTTLAEIMGKAEMWLIRSYWDLEFPHPISPNVDYIGGLHCKPAKPLPKDIEDFVQSSGEHGVVVFSLGSMVRNMTEEKANIIAWALAQIPQKVLWRFDGKKPPTLGPNTRLYKWLPQNDLLGHPKTKAFVTHGGANGIYEAIHHGIPMIGIPLFAEQHDNIAHMVAKGAAVEVNFRTMSKSDLLNALEEVIDNPFYKKNAMWLSTIHHDQPTKPLDRAVFWIEFVMRHKGAKHLRSLGHNLPWYQYHSLDVIGFLLSCVAVTVVLALKCFLFVYRFFVKKEKKTKNE |
| 5608 | sp|O00507|USP9Y\_HUMAN | MTAITHGSPVGGNDSQGQVLDGQSQHLFQQNQTSSPDSSNENSVATPPPEEQGQGDAPPQHEDEEPAFPHTELANLDDMINRPRWVVPVLPKGELEVLLEAAIDLSVKGLDVKSEACQRFFRDGLTISFTKILMDEAVSGWKFEIHRCIINNTHRLVELCVAKLSQDWFPLLELLAMALNPHCKFHIYNGTRPCELISSNAQLPEDELFARSSDPRSPKGWLVDLINKFGTLNGFQILHDRFFNGSALNIQIIAALIKPFGQCYEFLSQHTLKKYFIPVIEIVPHLLENLTDEELKKEAKNEAKNDALSMIIKSLKNLASRISGQDETIKNLEIFRLKMILRLLQISSFNGKMNALNEINKVISSVSYYTHRHSNPEEEEWLTAERMAEWIQQNNILSIVLQDSLHQPQYVEKLEKILRFVIKEKALTLQDLDNIWAAQAGKHEAIVKNVHDLLAKLAWDFSPGQLDHLFDCFKASWTNASKKQREKLLELIRRLAEDDKDGVMAHKVLNLLWNLAQSDDVPVDIMDLALSAHIKILDYSCSQDRDAQKIQWIDHFIEELRTNDKWVIPALKQIREICSLFGEASQNLSQTQRSPHIFYRHDLINQLQQNHALVTLVAENLATYMNSIRLYAGDHEDYDPQTVRLGSRYSHVQEVQERLNFLRFLLKDGQLWLCAPQAKQIWKCLAENAVYLCDREACFKWYSKLMGDEPDLDPDINKDFFESNVLQLDPSLLTENGMKCFERFFKAVNCRERKLIAKRRSYMMDDLELIGLDYLWRVVIQSSDEIANRAIDLLKEIYTNLGPRLKANQVVIHEDFIQSCFDRLKASYDTLCVFDGDKNSINCARQEAIRMVRVLTVIKEYINECDSDYHKERMILPMSRAFRGKHLSLIVRFPNQGRQVDELDIWSHTNDTIGSVRRCIVNRIKANVAHKKIELFVGGELIDSEDDRKLIGQLNLKDKSLITAKLTQINFNMPSSPDSSSDSSTASPGNHRNHYNDGPNLEVESCLPGVIMSVHPRYISFLWQVADLGSNLNMPPLRDGARVLMKLMPPDRTAVEKLRAVCLDHAKLGEGKLSPPLDSLFFGPSASQVLYLTEVVYALLMPAGVPLTDGSSDFQVHFLKSGGLPLVLSMLIRNNFLPNTDMETRRGAYLNALKIAKLLLTAIGYGHVRAVAEACQPVVDGTDPITQINQVTHDQAVVLQSALQSIPNPSSECVLRNESILLAQEISNEASRYMPDICVIRAIQKIIWASACGALGLVFSPNEEITKIYQMTTNGSNKLEVEDEQVCCEALEVMTLCFALLPTALDALSKEKAWQTFIIDLLLHCPSKTVRQLAQEQFFLMCTRCCMGHRPLLFFITLLFTILGSTAREKGKYSGDYFTLLRHLLNYAYNGNINIPNAEVLLVSEIDWLKRIRDNVKNTGETGVEEPILEGHLGVTKELLAFQTSEKKYHFGCEKGGANLIKELIDDFIFPASKVYLQYLRSGELPAEQAIPVCSSPVTINAGFELLVALAIGCVRNLKQIVDCLTEMYYMGTAITTCEALTEWEYLPPVGPRPPKGFVGLKNAGATCYMNSVIQQLYMIPSIRNSILAIEGTGSDLHDDMFGDEKQDSESNVDPRDDVFGYPHQFEDKPALSKTEDRKEYNIGVLRHLQVIFGHLAASQLQYYVPRGFWKQFRLWGEPVNLREQHDALEFFNSLVDSLDEALKALGHPAILSKVLGGSFADQKICQGCPHRYECEESFTTLNVDIRNHQNLLDSLEQYIKGDLLEGANAYHCEKCDKKVDTVKRLLIKKLPRVLAIQLKRFDYDWERECAIKFNDYFEFPRELDMGPYTVAGVANLERDNVNSENELIEQKEQSDNETAGGTKYRLVGVLVHSGQASGGHYYSYIIQRNGKDDQTDHWYKFDDGDVTECKMDDDEEMKNQCFGGEYMGEVFDHMMKRMSYRRQKRWWNAYILFYEQMDMIDEDDEMIRYISELTIARPHQIIMSPAIERSVRKQNVKFMHNRLQYSLEYFQFVKKLLTCNGVYLNPAPGQDYLLPEAEEITMISIQLAARFLFTTGFHTKKIVRGPASDWYDALCVLLRHSKNVRFWFTHNVLFNVSNRFSEYLLECPSAEVRGAFAKLIVFIAHFSLQDGSCPSPFASPGPSSQACDNLSLSDHLLRATLNLLRREVSEHGHHLQQYFNLFVMYANLGVAEKTQLLKLNVPATFMLVSLDEGPGPPIKYQYAELGKLYSVVSQLIRCCNVSSTMQSSINGNPPLPNPFGDLNLSQPIMPIQQNVLDILFVRTSYVKKIIEDCSNSEDTIKLLRFCSWENPQFSSTVLSELLWQVAYSYTYELRPYLDLLFQILLIEDSWQTHRIHNALKGIPDDRDGLFDTIQRSKNHYQKRAYQCIKCMVALFSSCPVAYQILQGNGDLKRKWTWAVEWLGDELERRPYTGNPQYSYNNWSPPVQSNETANGYFLERSHSARMTLAKACELCPEEEPDDQDAPDEHEPSPSEDAPLYPHSPASQYQQNNHVHGQPYTGPAAHHLNNPQKTGQRTQENYEGNEEVSSPQMKDQ |
| 5609 | sp|O75841|UPK1B\_HUMAN | MAKDNSTVRCFQGLLIFGNVIIGCCGIALTAECIFFVSDQHSLYPLLEATDNDDIYGAAWIGIFVGICLFCLSVLGIVGIMKSSRKILLAYFILMFIVYAFEVASCITAATQQDFFTPNLFLKQMLERYQNNSPPNNDDQWKNNGVTKTWDRLMLQDNCCGVNGPSDWQKYTSAFRTENNDADYPWPRQCCVMNNLKEPLNLEACKLGVPGFYHNQGCYELISGPMNRHAWGVAWFGFAILCWTFWVLLGTMFYWSRIEY |
| 5610 | sp|P50520|VPS34\_SCHPO | MDRLVFSYCPSSKVTARFLVKFCFIEYQDSQEPCICTIQLFSGNESGSLMQKCFVSKIPNKSLLPTELSKISTHEWLDFGVTVSELSLNAKFVVSAWKPSFNDEEVYEFVGCTTYRLFDENNLLRQGLQKIPLQTSKEIKKYSPTSLELEQVKEINRLDGLLLKLQLGDVPSVNWLDDISFGKIKDFRSKHMSLVTIPILYLDFLQFSFPVVFQRSYYPKSENRVYYSSFDLELNLDSPAELKHRRLVRSQRNGPLDKDLKPNSKIRKELESILSYPPSEELSLEEKDLIWKFRFYLTRNKKAMTKFLKSVVWTDSSEVNQALSLLDSWTEIDIDDALELLSPSFVHPKVRAYAVSRLETASNEELLLYLLQLVQALRYDNPISSDERFQPSPLALFLVNRAISSPSIGNDLYWYLVVEIEDEPVSKLFSSVMFLFQKELSKSVEGRLIRETLSAQAKFVEKLLRISKSVQSFRGTRLKKIEYLKVLLEDHKYHLLDFHALPLPLDPSVNIVGIIPDACTVFKSTMQPLRLLFKCQDGSKYPIIFKNGDDLRQDQLVIQILTLMDKLLKKEKLDLHLKPYRILATGPTHGAVQFVPSKTLATILAEYHGSVLAYLRENNPDDGLNSANYGIDPVAMDNYVRSCAGYCVITYLLGVGDRHLDNLLITKDGHFFHADFGYILGRDPKLFSPAMKLSKEMVEGMGGYNSPFYQQFKSYCYTTFTALRKSSNLILNLFSLMVDANIPDIKFDKEKVVYKVKERFCLQMSESDAIKYFEQLINDSVSALFPQIIDRMHNLAQYMRS |
| 5611 | sp|Q9W1R5|VIR\_DROME | MADVDDGSELLFFDTFSHEEVTDINLDLVQFPKPVFITQVRIIPLGARVQADFPGGVRLGATNPSKFDLEFFVNDLGMPAASAFENLGLLRYNQNDCIHLDCSQEKIVTDGLVLRGWYSTITLAIYGIFTNSVTEPIASPTLPCEPVGPEIANLSGEVLLQEDVLKDEWQEPMQAELLTAHKGNVSDYDPEDMEYGMSRDHYHQHAEEQEQREMRRLRRSTHSTDHSPPPPRRSHTHSESNDREYIRCSRDKGSRDWSRSPEYSSHRSRRKRSERSRSVVDEHKWPRTPPASIDSPTRPRSPDTMDYEDEDSRSHYKMQSSHYRHSSESLHRGERDRDDEDRSCTPQEQFEPILSDDEIIGDDEEDDAVDAAAIAEYERELEAAAAAAPPAIDAFEPWQKPLLVFEGDMAAHFCKELETLKLLFKKLVLQTRCENVNAFSEEHGASVDEREQFVYLGEQLNNQLGYLAQHYKRRNFVLQQFFGNDELHLRQAANVLQIALSFQAACMQPQPAFKIRHIKLGARMAELLGSSEELFQHLLKEHKFDIFEAVFRLYHEPYMALSIKLQLLKAVYALLDTRMGIEHFMGAKNNGYQMIVEAIKTAKLTRTKYALQAIIKKLHLWEGLESVQIWCRRLFVDRIIIPGNRDQMEDTVITCQQIEFAFEMLMDALFSSQLSYLQPRRFLPVSKKFEVVTDPTAQRSFGNALQSYLGQNSLAESLLVMLANCKELPATTYLSMLDLMHTLLRSHVGIDYFVDDAFPVTQTIVAILLGLDEVPRNPEEKEEKAEKSDAEDKAMEVENEAVEAGGEKPTPPTADEEGKPVAAPISVPAPAAAPQVRPRPILRPVLPRLARLGIEMSYKVQTRYHLDAIAYAAAAPEYDAVKLATHMHAIYSQTCDPAGRQHTVEVLGLNNNLKIFMDLIKKEQRLQTQRQLSSPGTKYKSPVLSYAVDMVDACVRYCEQLDYLIEHGGVILELAKNHETFEPSVSAVLQEMYVYMKPLEAINVFVYDDIMPLVEVIGRSLDYLTTFPGDLIMAMRILRYLSISKPLAGQKAPPVTEELKHRFVALQLYAADGVQLCIQIMERLCAYFEQPGAHAPALMTIQGVHCCQIMLPTLQILRELLSYAILCRDGTYKDLTAIDHLVKVYYLLYYFPTRCQAGPEVEQCKMEVVQTLLAYTQPNEQDEESLHKSLWTLMIREVLKNVDGPAHFIPGLKLLAELLPLPLPMPQPLCDQLQQQHKQRLITERKLWSAHLHPQSGQIAKLVEALAPSSFPQLSELLQRVCMQLSDLAPNMTLLIAKTITELLCNEYQTSNCIPTTNLERLLRFSTRLCAFAPLKSSMLSILSGKFWELFQSLLALNEFNDVVSNCQEAVHRILDSFLDSGISLISHKSTASPALNLAAALPPKELIPRIIDAVFSNLTSVEVTHGISILAVRNLVILTEHDFTFYHLAQLLKQKITEFQAWMERVILHNETVEYNANIESLILLLRSLTQIEPPPAMSAMPHRTLKLGATELAQLVEFQDIELAKPPVLSRILTVMEKHKAVANEAALSDLKQLILLQASKQEILAGTSTETPPEAEGEANPSASSCSASLTVEPYLPQAEGIVTQYEARPIFTRFCATAENAQLTARYWLDPLPIELIEDMNEPIYERIACDLTDLANVCLNPDLNVAGDSKRVMNLSGSPQSNREMTPTAPCFRTRRVEVEPATGRPEKKMFVSSVRGRGFARPPPSRGDLFRSRPPNTSRPPSLHVDDFLALETCGAQPTGPTGYNKIPSMLRGSRVGRNRGSRISAAAAFRQKKMMRIGSPSSWAESPGSYRSASDSHFSSSDSHYSSPHYSGRPRGRGLRSRPSYLR |
| 5612 | sp|P39301|ULAA\_ECOLI | MEILYNIFTVFFNQVMTNAPLLLGIVTCLGYILLRKSVSVIIKGTIKTIIGFMLLQAGSGILTSTFKPVVAKMSEVYGINGAISDTYASMMATIDRMGDAYSWVGYAVLLALALNICYVLLRRITGIRTIMLTGHIMFQQAGLIAVTLFIFGYSMWTTIICTAILVSLYWGITSNMMYKPTQEVTDGCGFSIGHQQQFASWIAYKVAPFLGKKEESVEDLKLPGWLNIFHDNIVSTAIVMTIFFGAILLSFGIDTVQAMAGKVHWTVYILQTGFSFAVAIFIITQGVRMFVAELSEAFNGISQRLIPGAVLAIDCAAIYSFAPNAVVWGFMWGTIGQLIAVGILVACGSSILIIPGFIPMFFSNATIGVFANHFGGWRAALKICLVMGMIEIFGCVWAVKLTGMSAWMGMADWSILAPPMMQGFFSIGIAFMAVIIVIALAYMFFAGRALRAEEDAEKQLAEQSA |
| 5613 | sp|Q9VYQ8|UBP7\_DROME | MEIETDQSIEAMDTQDTQEVEILTSDLQQTQQQRNSPPQLPKFKNLIQPQLHAVGAVTQLPSENGNMPPQQLLADSSSTSFGDGEAMGIDDESKEDQFRSETTFSFTVENVVQLKSQRLSPPVYVRMLPWRIMVIPNDRALGFFLQCNGENDSPTWSCNAIAELRLKCHKPDAQPFTRARIKHLFYSKENDYGYSNFITWQELKDSEKSYVHNNSITLEVHVVADAPHGVLWDSKKHTGYVGLKNQGATCYMNSLLQTLYFTNSLRLSVYRIPTEADDSSKSVGLSLQRVFHELQFGDRPVGTKKLTKSFGWETLDSFMQHDVQEFLRVLLDKLESKMKGTILEGTIPGLFEGKMSSYIKCKNVDYNSTRYETFYDIQLNIKDKKNIYESFQDYVAPETLEGDNKYDAGVHGLQEASKGVIFTSFPPVLHLHLMRFQYDPVTDSSIKYNDRFEFYEHINLDRYLAESENTLADYVLHAVLVHSGDNHGGHYVVFINPKADGRWFKFDDDVVSSCRKQEAIEQNYGGMDDEISFHAKCSNAYMLVYIRQSELDRVLGDITESEISSDLVERLDLEKRIEMARRKERGEANTYVSVHVILEENFEEQHKRRLFDLEKVHPRVFRIKQNQTVDELVDLFVRGFGVSRQRMRMWNLCTAQTQKFSHFDFVAEGSRTIEQISTSQKPWVIWLQLAWTDVPGPLPPFNPKTESLLFLKYYDPRNKRLNYIGCTQQPHTRRLIDLVPDVNSKLGFEPDTELTIYDEYADKKLVNLNEPIESALFIPQDHLQGHILIFERENVDAKLDLPTVGDYFLDLVYRIEIIFSDKCNPNEPDFTLELSNRYNYDQLANAVAERLNTDPQKLQFFMCINNYKETAGNAVPYTFKGTIKDLVSYTKQSSTKRIFYQRLSLSIHELDNKKQFKCVWVSSDLKDEKELVLYPNKNDTVKGLLEEAAKKISFAENSRRKLRLLKISNHKIVAVCKDDIPLDTLLKSNESITTAQGAQKTFRIEEVPAEDMQLAENEFLIPVAHFSKELYNSFGIPFLTKARQGEPYGALKQRIQRRLNVQDKEWENYKFCVISMGHNADVNDNTPVDLEVYRSWTSGQLPFFGLDHINKSRKRSSLNFSEKAIKIYN |
| 5614 | sp|Q14119|VEZF1\_HUMAN | MEANWTAFLFQAHEASHHQQQAAQNSLLPLLSSAVEPPDQKPLLPIPITQKPQGAPETLKDAIGIKKEKPKTSFVCTYCSKAFRDSYHLRRHESCHTGIKLVSRPKKTPTTVVPLISTIAGDSSRTSLVSTIAGILSTVTTSSSGTNPSSSASTTAMPVTQSVKKPSKPVKKNHACEMCGKAFRDVYHLNRHKLSHSDEKPFECPICNQRFKRKDRMTYHVRSHEGGITKPYTCSVCGKGFSRPDHLSCHVKHVHSTERPFKCQTCTAAFATKDRLRTHMVRHEGKVSCNICGKLLSAAYITSHLKTHGQSQSINCNTCKQGISKTCMSEETSNQKQQQQQQQQQQQQQQQQQQHVTSWPGKQVETLRLWEEAVKARKKEAANLCQTSTAATTPVTLTTPFSITSSVSSGTMSNPVTVAAAMSMRSPVNVSSAVNITSPMNIGHPVTITSPLSMTSPLTLTTPVNLPTPVTAPVNIAHPVTITSPMNLPTPMTLAAPLNIAMRPVESMPFLPQALPTSPPW |
| 5615 | sp|P54860|UFD2\_YEAST | MTAIEDILQITTDPSDTRGYSLLKSEEVPQGSTLGVDFIDTLLLYQLTENEKLDKPFEYLNDCFRRNQQQKRITKNKPNAESLHSTFQEIDRLVIGYGVVALQIENFCMNGAFINYITGIVSNVNSYTDFLSQIIQRAILEGTALDLLNAVFPTLLEYCNKHVSHFDLNESVIYNNVLTIFELFVTFKPIAEIFTKIDGFFADYSCKPQDFERKTILGPILSLSPIEAAVAIRNYGDNLLRSKQQTAMIHESLQAEHKVVIDRLFFIVDKLVRGSLNSRTDMISYFAHIANKNHLRRADHPPFKELSSNGFMSNITLLLVRFSQPFLDISYKKIDKIDANYFNNPSLFIDLSGETRLNSDFKEADAFYDKNRKTADSKPNFISDCFFLTLTYLHYGLGGTLSFEEKMGSEIKALKEEIEKVKKIAANHDVFARFITAQLSKMEKALKTTESLRFALQGFFAHRSLQLEVFDFICGASTFLIRVVDPEHEFPFKQIKLPLIPDQIGVENVDNADFLRAHAPVPFKYYPEFVVEGPVNYSLYISKYQTSPIFRNPRLGSFVEFTTMVLRCPELVSNPHLKGKLVQLLSVGAMPLTDNSPGFMMDIFEHDELVNKNLLYALLDFYVIVEKTGSSSQFYDKFNSRYSISIILEELYYKIPSYKNQLIWQSQNNADFFVRFVARMLNDLTFLLDEGLSNLAEVHNIQNELDNRARGAPPTREEEDKELQTRLASASRQAKSSCGLADKSMKLFEIYSKDIPAAFVTPEIVYRLASMLNYNLESLVGPKCGELKVKDPQSYSFNPKDLLKALTTVYINLSEQSEFISAVAKDERSFNRNLFVRAVDILGRKTGLASPEFIEKLLNFANKAEEQRKADEEEDLEYGDVPDEFLDPLMYTIMKDPVILPASKMNIDRSTIKAHLLSDSTDPFNRMPLKLEDVTPNEELRQKILCFKKQKKEEAKHKASE |
| 5616 | sp|Q9QZD4|XPF\_MOUSE | MEPGLSGERRSMAPLLEYERQQVLELLDSDGLVVCARGLGTDRLLYHFLRLHCHPACLVLVLNTQPAEEEYFINQLKIEGVEHLPRRVTNEIASNSRYEVYTQGGIIFATSRILVVDFLTGRIPSDLITGILVYRAHRIIESCQEAFILRLFRQKNKRGFIKAFTDNAVAFDTGFCHVERVMRNLFVRKLYLWPRFHVAVNSFLEQHKPEVVEIHVSMTPAMLAIQTAILDILNACLKELKCHNPSLEVEDLSLENALGKPFDKTIRHYLDPLWHQLGAKTKSLVQDLKILRTLLQYLSQYDCVTFLNLLESLRATEKVFGQNSGWLFLDASTSMFVNARARVYRVPDVKLNKKAKTSEKTSSPEVQETKKELVLESNPKWEALTDVLKEIEAENKESEALGGPGRVLICASDDRTCCQLRDYLSAGAETFLLRLYRKTFEKDGKAEEVWVNVRKGDGPKRTTKSDKRPKAAPNKERASAKRGAPLKRKKQELTLTQVLGSAEEPPEDKALEEDLCRQTSSSPEGCGVEIKRESFDLNVSSDAAYGILKEPLTIIHPLLGCSDPYALTRVLHEVEPRYVVLYDAELTFVRQLEIYRASRPGKPLRVYFLIYGGSTEEQRYLTALRKEKEAFEKLIREKASMVVPEEREGRDETNLDLARGSAALDAPTDTRKAGGQEQNGTQSSIVVDMREFRSELPSLIHRRGIDIEPVTLEVGDYILTPELCVERKSVSDLIGSLHSGRLYSQCLAMSRYYRRPVLLIEFDPSKPFSLAPRGAFFQEMSSSDVSSKLTLLTLHFPRLRLLWCPSPHATAELFEELKQNKPQPDAATAMAITADSETLPESDRYNPGPQDFVLKMPGVNAKNCRSLMNQVKNIAELATLSLERLTTILGHSGNAKQLHDFLHTAYADLVSKGRVRK |
| 5617 | sp|P45563|XAPA\_ECOLI | MSQVQFSHNPLFCIDIIKTYKPDFTPRVAFILGSGLGALADQIENAVAISYEKLPGFPVSTVHGHAGELVLGHLQGVPVVCMKGRGHFYEGRGMTIMTDAIRTFKLLGCELLFCTNAAGSLRPEVGAGSLVALKDHINTMPGTPMVGLNDDRFGERFFSLANAYDAEYRALLQKVAKEEGFPLTEGVFVSYPGPNFETAAEIRMMQIIGGDVVGMSVVPEVISARHCDLKVVAVSAITNMAEGLSDVKLSHAQTLAAAELSKQNFINLICGFLRKIA |
| 5618 | sp|Q62935|VWF\_RAT | HCDGVNLTCEACQEPGGLVVPPTDAPVSSTTPYVEDTPEPPLHNFYCSKLLDLVFLLDGSYRLSEAEFEVLKAFVVGTMERLHISQKRIRVAVVEYHDGSHAYLELRARKRPSELRRIASQIKYVGSQLASTSEVLKYTLFQIFGKIDRPEASRVILLLTASQEPQRMARYFTRYLQGFKKKKVILIPVGIGPHANLKQIRLIEKQAPENKAFLLSGVDELEQRRDEIINYLCDLAPEAPAPSKPPQVAHITVSPGISGVSSPGPKRKSLVLDVVFVLEASDEVGEANFNKSKEFLEEVIQRMDVSPAGTHIAVLQYSYTVNVEYTFKEAQSKEDVLRHVREIRYQGGNRTNTGQALQYLSEHSFSPSQGDREQAPNLVYMVTGNPASDEIRRLPGDIQVVPIGVGSRANLQELERISRPITPIFIQDFE |
| 5619 | sp|Q9BTA9|WAC\_HUMAN | MVMYARKQQRLSDGCHDRRGDSQPYQALKYSSKSHPSSGDHRHEKMRDAGDPSPPNKMLRRSDSPENKYSDSTGHSKAKNVHTHRVRERDGGTSYSPQENSHNHSALHSSNSHSSNPSNNPSKTSDAPYDSADDWSEHISSSGKKYYYNCRTEVSQWEKPKEWLEREQRQKEANKMAVNSFPKDRDYRREVMQATATSGFASGMEDKHSSDASSLLPQNILSQTSRHNDRDYRLPRAETHSSSTPVQHPIKPVVHPTATPSTVPSSPFTLQSDHQPKKSFDANGASTLSKLPTPTSSVPAQKTERKESTSGDKPVSHSCTTPSTSSASGLNPTSAPPTSASAVPVSPVPQSPIPPLLQDPNLLRQLLPALQATLQLNNSNVDISKINEVLTAAVTQASLQSIIHKFLTAGPSAFNITSLISQAAQLSTQAQPSNQSPMSLTSDASSPRSYVSPRISTPQTNTVPIKPLISTPPVSSQPKVSTPVVKQGPVSQSATQQPVTADKQQGHEPVSPRSLQRSSSQRSPSPGPNHTSNSSNASNATVVPQNSSARSTCSLTPALAAHFSENLIKHVQGWPADHAEKQASRLREEAHNMGTIHMSEICTELKNLRSLVRVCEIQATLREQRILFLRQQIKELEKLKNQNSFMV |
| 5620 | sp|Q8H110|XCT\_ARATH | MSGMGDGYVGTAQDAVRIRRLQKQREAERKKIQELKSKSASGNDQSGLLQFGTSSCEILDTAFKKETVGLVTREEYVEKRVNIRNKFEEEEKEKLQKLQQEEEELQLEKRNKKRKIKGSSRLSFAEDFENGSDEDDGENKSSGTGNLRCGKLGKDPSVETNFLPDSEREAEEQAERERLKKQWLREQEQIKNEPLEITYSYWDGTGHRRVIQVRKGDPIGNFLRAVQQQLAPDFREIRTASVENLLYVKEDLIIPHQHSFYELIINKARGKSGPLFHFDVHEDVRTIADATIEKDESHAGKVVERHWYEKNKHIFPASRWEIYDPTKKWERYTVHGD |
| 5621 | sp|Q3UGF1|WDR19\_MOUSE | MKRVFSLLEKSWLGAPIQFAWQKSSGNYLAVTGADYIVKIFDRHGQKRSEISLPGNCVTMDWDKDGDILAVIAEKSSCIYLWDANTNKTSQLDNGMRDQMSFLLWSKIGSFLAVGTIKGNLLIYNHQTSRKIPVLGKHTKKITCGCWNSENLLALGGEDKMITVSNQEGDTIRQTPVKSEPSDIKFSMSKTDERISSAENTISAVVGKKMLFLFHLNEPDNPVDLEFQQAYGNIVCYSWYGDGYIMIGFSRGTFLAISTHFPEVGQEIFKARDHKDNLTSVALSQTLNKAATCGDNCIKIHDLTELRDMYAIINLDDENKGLGTLSWTDDGQLLALSTQRGSLHVFLTKLPILGDACHTRIAYLTSLLEVTVANLIEGEPPITVSVDVEPTFVAVGLYHLAVGMNNRAWFYVLGENVVKKLKDVEYLGTVASICLHSDYAAALFEGKIQLHLIENEMLDAQEERETRLFPAVDDKCRILCHALTSDFLIYGTDTGIIHYFFIEDWQFVNDYRHPVGVKKLFPDPNGTRLVFIDEKSDGFVYCPVNDATYEIPDFSPTIKGVLWENWPMDKGVFIAYDDDKVYTYAFHKDTIQGSKVILAGSTKLPFSHKPLLLYNGELTCQTQSGKINSIYLSTHSFLGSMKDTEPTDLRQMLTQTLLLKRFSDAWDICKMLNDRTSWSELAKACLHHMEVEFAIRVSRTMGDVGTVMSLEQIKGIEDYNLLAGHLAMFTNDFNLAQDLYLASNCPVAALEMRRDLQHWDSALQLAKRLAPDQIPFISKEYAIQLEFTGDYVNALAHYEKGITGDNKEHDEVCLAGVAQMSIRMGDIRRGANQALKHPSRVLKRDCGAILENMKQFSEAAQLYEKGQYYDRAASVYIRCKNWAKVGELLPHVSSPKIHLQYAKAKEADGRYKEAVVAYENAKQWNSVIRIYLDHLNNPEKAVSIVRETQSLDGAKMVARFFLQLGDYGSAIQFLVLSKCNNEAFTLAQQHNKMEIYADIIGAEDTTNEDYQSIALYFEGEKRHFQAGKFFLLCGQYSRALKHFLKCPSSEDNVAIEMAIETVGQAKDELLTNQLIDHLMGESDGMPKDAKYLFRLYMALKQYREAARTAIIIAREEQSAGNYRNAHDVLFSMYAELKAQKIKIPSEMATNLMILHSYILVKIHVKSGDHMKGARMLIRVANNISKFPSHIVPILTSTVIECHRAGLKNSAFSFAAMLMRPEYRNKIDAKYKKKIEAMVRRPDTSETEEATTPCPFCQFLLPECELLCPGCKNNIPYCIATGRHMLKDDWTMCPHCGFPALYSEFKILLNSESTCPMCSERLNSSQLKKITDCSQYLRTEME |
| 5622 | sp|Q9C516|XLG3\_ARATH | MEKKDEGESWKEMVRKMLPPGAPLPEDPSEFDYSIALEYTGPPPVHDIPRVSPVDVNPRVNNPIPLPVSRIAGGVTSSSGGSPASSESVVSVLHNNPESSSGSASVSPVSGHRQNGNQVRRPVVKFKPVDDHDRIEGREAAEEEDNNVEAETERERKVHECTASTKRRKKKKKSECYRCGKAKWENKETCIVCDEKYCGNCVLRAMGSMPEGRKCVSCIGQAIDESKRSKLGKHSRVLSRLLSPLEVKQIMKAEKECTANQLRPEQLIVNGYPLKPEEMADLLNCLLPPQKLKPGRYWYDKESGLWGKEGEKPDRVISSNLNFTGKLSPDASNGNTEVYINGREITKLELRILKLANVQCPRDTHFWVYDDGRYEEEGQNNIRGNIWEKASTRFMCALFSLPVPQGQPRGTVQPSSNYATVPNYIEHKKIQKLLLLGIEGSGTSTIFKQAKFLYGNKFSVEELQDIKLMVQSNMYRYLSILLDGRERFEEEALSHTRGLNAVEGDSGGEEANDEGTVTTPQSVYTLNPRLKHFSDWLLDIIATGDLDAFFPAATREYAPLVEEVWKDPAIQATYRRKDELHFLPDVAEYFLSRAMEVSSNEYEPSERDIVYAEGVTQGNGLAFMEFSLSDHSPMSESYPENPDALSSPQPKYQLIRVNAKGMNDSCKWVEMFEDVRAVIFCISLSDYDQINITPESSGTVQYQNKMIQSKELFESMVKHPCFKDTPFILILNKYDQFEEKLNRAPLTSCDWFSDFCPVRTNNNVQSLAYQAYFYVAMKFKLLYFSITGQKLFVWQARARDRANVDEGFKYVREVLKWDEEKEESYLNGGGEDSFYSTDMSSSPYRPEE |
| 5623 | sp|Q91YD9|WASL\_MOUSE | MSSGQQPPRRVTNVGSLLLTPQENESLFSFLGKKCVTMSSAVVQLYAADRNCMWAKKCSGVACLVKDNPQRSYFLRIFDIKDGKLLWEQELYNNFVYNSPRGYFHTFAGDTCQVALNFANEEEAKKFRKAVTDLLGRRQRKSEKRRDAPNGPNLPMATVDIKNPEITTNRFYGSQVNNISHTKEKKKGKAKKKRLTKADIGTPSNFQHIGHVGWDPNTGFDLNNLDPELKNLFDMCGISEAQLKDRETSKVIYDFIEKTGGVEAVKNELRRQAPPPPPPSRGGPPPPPPPPHSSGPPPPPARGRGAPPPPPSRAPTAAPPPPPPSRPGVVVPPPPPNRMYPPPPPALPSSAPSGPPPPPPPSMAGSTAPPPPPPPPPPPGPPPPPGLPSDGDHQVPAPSGNKAALLDQIREGAQLKKVEQNSRPVSCSGRDALLDQIRQGIQLKSVSDGQESTPPTPAPTSGIVGALMEVMQKRSKAIHSSDEDEDDDDEEDFEDDDEWED |
| 5624 | sp|O45797|WARTS\_CAEEL | MRPAAPGTTPNGASSDIRHQRGVAPIPFGSTNSAIDAHHNSEIRVGRHRAKLDEIRESLKAYEHEAGLLSSHVALGSLATPSSSSVSHSDITNDNAEVMNFSSSSSNAAATTTTVSSAAVSNSNSFRTEGGGHKMRITPMPQRHLMMDTGANETVFRSGKEMIRNGNPSTTISSTPSTTTEESIRIHPAGYRYDMPTPAYHMNNNAPQYSPGYSRPPPPAYDSSPVNTRMTPVATDNYRTHLHMKVHPVVKAPPPNPTMLNHNKNMAPPPPPPAKSTISIETMSEERKADNIQRLYHTSMDKKTASSVVSINVASPHTTKVNVGDSPLPSKSFIIGPRYTADVDRKNFVNYKDELRPDPRLIPSTSDANHEDFRPILFKPRNLEITMKSRAQPPPPQYNQPSEPPPKRVSSPIDRTLLEPYIKNTRRVQPCKPNMLRFYMEQHVERLLQQYKEREKRMKQLEKEMVSAQLPDIMRNKMLGLLQQKESKYTRLRRQKMSKSHFTVISHIGVGAFGKVSLVRKNDTRKVYAMKSLEKADVIMKQQAAHVKAERDILAEADSPWIVRLFFSFQDDACLYFIMEYVPGGDMMTLLIQKGIFEEDLARFYIAELACAIEYVHNVGFIHRDLKPDNILIDQHGHIKLTDFGLCTGLRWTHDRRYYGPENDHHRVDSFSLPPEVAAIDKSVKVLNVRQQTRRITAHSLVGTGNYMAPEVIAKTGHNQSCDWWSTGVILYEMVFGRVPFHDDTPGGTQHRIKNWRNFLDFTYCGNLSKECLMMIQQLICDASSRLGSHGKDVAERTAQVKNHPWFRGIDWVNLRKLRADYIYIPRVTHDEDTSNFETFQDNDRADKPNVRGLHNPAFYEFTYRHFFDTDSVGCPSLRPSRRRSLRPLLENGTFNESVSEEDSSSHI |
| 5625 | sp|P22147|XRN1\_YEAST | MGIPKFFRYISERWPMILQLIEGTQIPEFDNLYLDMNSILHNCTHGNDDDVTKRLTEEEVFAKICTYIDHLFQTIKPKKIFYMAIDGVAPRAKMNQQRARRFRTAMDAEKALKKAIENGDEIPKGEPFDSNSITPGTEFMAKLTKNLQYFIHDKISNDSKWREVQIIFSGHEVPGEGEHKIMNFIRHLKSQKDFNQNTRHCIYGLDADLIMLGLSTHGPHFALLREEVTFGRRNSEKKSLEHQNFYLLHLSLLREYMELEFKEIADEMQFEYNFERILDDFILVMFVIGNDFLPNLPDLHLNKGAFPVLLQTFKEALLHTDGYINEHGKINLKRLGVWLNYLSQFELLNFEKDDIDVEWFNKQLENISLEGERKRQRVGKKLLVKQQKKLIGSIKPWLMEQLQEKLSPDLPDEEIPTLELPKDLDMKDHLEFLKEFAFDLGLFITHSKSKGSYSLKMDLDSINPDETEEEFQNRVNSIRKTIKKYQNAIIVEDKEELETEKTIYNERFERWKHEYYHDKLKFTTDSEEKVRDLAKDYVEGLQWVLYYYYRGCPSWSWYYPHHYAPRISDLAKGLDQDIEFDLSKPFTPFQQLMAVLPERSKNLIPPAFRPLMYDEQSPIHDFYPAEVQLDKNGKTADWEAVVLISFVDEKRLIEAMQPYLRKLSPEEKTRNQFGKDLIYSFNPQVDNLYKSPLGGIFSDIEHNHCVEKEYITIPLDSSEIRYGLLPNAKLGAEMLAGFPTLLSLPFTSSLEYNETMVFQQPSKQQSMVLQITDIYKTNNVTLEDFSKRHLNKVIYTRWPYLRESKLVSLTDGKTIYEYQESNDKKKFGFITKPAETQDKKLFNSLKNSMLRMYAKQKAVKIGPMEAIATVFPVTGLVRDSDGGYIKTFSPTPDYYPLQLVVESVVNEDERYKERGPIPIEEEFPLNSKVIFLGDYAYGGETTIDGYSSDRRLKITVEKKFLDSEPTIGKERLQMDHQAVKYYPSYIVSKNMHLHPLFLSKITSKFMITDATGKHINVGIPVKFEARHQKVLGYARRNPRGWEYSNLTLNLLKEYRQTFPDFFFRLSKVGNDIPVLEDLFPDTSTKDAMNLLDGIKQWLKYVSSKFIAVSLESDSLTKTSIAAVEDHIMKYAANIEGHERKQLAKVPREAVLNPRSSFALLRSQKFDLGDRVVYIQDSGKVPIFSKGTVVGYTTLSSSLSIQVLFDHEIVAGNNFGGRLRTNRGLGLDASFLLNITNRQFIYHSKASKKALEKKKQSNNRNNNTKTAHKTPSKQQSEEKLRKERAHDLLNFIKKDTNEKNSESVDNKSMGSQKDSKPAKKVLLKRPAQKSSENVQVDLANFEKAPLDNPTVAGSIFNAVANQYSDGIGSNLNIPTPPHPMNVVGGPIPGANDVADVGLPYNIPPGFMTHPNGLHPLHPHQMPYPNMNGMSIPPPAPHGFGQPISFPPPPPMTNVSDQGSRIVVNEKESQDLKKFINGKQHSNGSTIGGETKNSRKGEIKPSSGTNSTECQSPKSQSNAADRDNKKDEST |
| 5626 | sp|Q9R0I6|XIAP\_RAT | MTFNSFEGSRTVVPADTNKDEEFVEEFNRLKTFANFPSSSPVSASTLARAGFLYTGEGDTVQCFSCHAAVDRWQYGDSAVGRHRRISPNCRFINGFYFENGATQSTSPGIQNGQYKSENCVGNRNHFALDRPSETHADYLLRTGQVVDISDTIYPRNPAMCSEEARLKTFQNWPDYAHLSPRELASAGLYYTGIDDQVQCFCCGGKLKNWEPCDRAWSEHRRHFPNCFFVLGRNVNVRSESGVSSDRNFPNSTNSPRNPAMAEYDARIVTFGTWLYSVNKEQLARAGFYALGEGDKVKCFHCGGGLTDWKPSEDPWEQHAKWYPGCKYLLDEKGQEYINNIHLTHSLGESVVRTAEKTPSVTKKIDDTIFQNPMVQEAIRMGFNFKDIKKTMEEKLQTSGSNYLSLEVLIADLVSAQKDNSQDESSQTSLQKDISTEEQLRRLQEEKLCKICMDRNIAIVFVPCGHLVTCKQCAEAVDKCPMCCTVITFKQKIFMS |
| 5627 | sp|Q9CA75|XXT5\_ARATH | MGQDGSPAHKRPSGSGGGLPTTTLTNGGGRGGRGGLLPRGRQMQKTFNNIKITILCGFVTILVLRGTIGVGNLGSSSADAVNQNIIEETNRILAEIRSDSDPTDLDEPQEGDMNPNATYVLGPKITDWDSQRKVWLNQNPEFPSTVNGKARILLLTGSPPKPCDNPIGDHYLLKSVKNKIDYCRLHGIEIVYNMAHLDKELAGYWAKLPMIRRLMLSHPEVEWIWWMDSDALFTDILFQIPLARYQKHNLVIHGYPDLLFDQKSWIALNTGSFLLRNCQWSLDLLDAWAPMGPKGPIRDEAGKVLTAYLKGRPAFEADDQSALIYLLLSQKDTWMEKVFVENQYYLHGFWEGLVDRYEEMIEKYHPGLGDERWPFVTHFVGCKPCGSYADYAVERCLKSMERAFNFADNQVLKLYGFSHRGLLSPKIKRIRNETVSPLEFVDKFDIRRTPVETKPQN |
| 5628 | sp|Q9HZ76|WBPE\_PSEAE | MIEFIDLKNQQARIKDKIDAGIQRVLRHGQYILGPEVTELEDRLADFVGAKYCISCANGTDALQIVQMALGVGPGDEVITPGFTYVATAETVALLGAKPVYVDIDPRTYNLDPQLLEAAITPRTKAIIPVSLYGQCADFDAINAIASKYGIPVIEDAAQSFGASYKGKRSCNLSTVACTSFFPSKPLGCYGDGGAIFTNDDELATAIRQIARHGQDRRYHHIRVGVNSRLDTLQAAILLPKLEIFEEEIALRQKVAAEYDLSLKQVGIGTPFIEVNNISVYAQYTVRMDNRESVQASLKAAGVPTAVHYPIPLNKQPAVADEKAKLPVGDKAATQVMSLPMHPYLDTASIKIICAALTN |
| 5629 | sp|O43379|WDR62\_HUMAN | MAAVGSGGYARNDAGEKLPSVMAGVPARRGQSSPPPAPPICLRRRTRLSTASEETVQNRVSLEKVLGITAQNSSGLTCDPGTGHVAYLAGCVVVILDPKENKQQHIFNTARKSLSALAFSPDGKYIVTGENGHRPAVRIWDVEEKNQVAEMLGHKYGVACVAFSPNMKHIVSMGYQHDMVLNVWDWKKDIVVASNKVSCRVIALSFSEDSSYFVTVGNRHVRFWFLEVSTETKVTSTVPLVGRSGILGELHNNIFCGVACGRGRMAGSTFCVSYSGLLCQFNEKRVLEKWINLKVSLSSCLCVSQELIFCGCTDGIVRIFQAHSLHYLANLPKPHYLGVDVAQGLEPSFLFHRKAEAVYPDTVALTFDPIHQWLSCVYKDHSIYIWDVKDINRVGKVWSELFHSSYVWNVEVYPEFEDQRACLPSGSFLTCSSDNTIRFWNLDSSPDSHWQKNIFSNTLLKVVYVENDIQHLQDMSHFPDRGSENGTPMDVKAGVRVMQVSPDGQHLASGDRSGNLRIHELHFMDELVKVEAHDAEVLCLEYSKPETGLTLLASASRDRLIHVLNVEKNYNLEQTLDDHSSSITAIKFAGNRDIQMISCGADKSIYFRSAQQGSDGLHFVRTHHVAEKTTLYDMDIDITQKYVAVACQDRNVRVYNTVNGKQKKCYKGSQGDEGSLLKVHVDPSGTFLATSCSDKSISVIDFYSGECIAKMFGHSEIITSMKFTYDCHHLITVSGDSCVFIWHLGPEITNCMKQHLLEIDHRQQQQHTNDKKRSGHPRQDTYVSTPSEIHSLSPGEQTEDDLEEECEPEEMLKTPSKDSLDPDPRCLLTNGKLPLWAKRLLGDDDVADGLAFHAKRSYQPHGRWAERAGQEPLKTILDAQDLDCYFTPMKPESLENSILDSLEPQSLASLLSESESPQEAGRGHPSFLPQQKESSEASELILYSLEAEVTVTGTDSQYCRKEVEAGPGDQQGDSYLRVSSDSPKDQSPPEDSGESEADLECSFAAIHSPAPPPDPAPRFATSLPHFPGCAGPTEDELSLPEGPSVPSSSLPQTPEQEKFLRHHFETLTESPCRALGDVEASEAEDHFFNPRLSISTQFLSSLQKASRFTHTFPPRATQCLVKSPEVKLMDRGGSQPRAGTGYASPDRTHVLAAGKAEETLEAWRPPPPCLTSLASCVPASSVLPTDRNLPTPTSAPTPGLAQGVHAPSTCSYMEATASSRARISRSISLGDSEGPIVATLAQPLRRPSSVGELASLGQELQAITTATTPSLDSEGQEPALRSWGNHEARANLRLTLSSACDGLLQPPVDTQPGVTVPAVSFPAPSPVEESALRLHGSAFRPSLPAPESPGLPAHPSNPQLPEARPGIPGGTASLLEPTSGALGLLQGSPARWSEPWVPVEALPPSPLELSRVGNILHRLQTTFQEALDLYRVLVSSGQVDTGQQQARTELVSTFLWIHSQLEAECLVGTSVAPAQALPSPGPPSPPTLYPLASPDLQALLEHYSELLVQAVRRKARGH |
| 5630 | sp|Q9VCU7|VRET\_DROME | MESESSQDDWSAFDPMSREYYDQVGNRYTNESGQKLIMEAPLPPKDEKEQRATRQAKYPYLVVPKSSPYVTEKMLINFFGRALIKEMEFRRLSRVYFVYFENIASLETAQQRVQRYPNLIKCITGRPQKEREITSDPVTSTEPMPTPGPAISATERTPVNHNREVPISTGGQNHPEFFRPPLVTKDDYKRGSLLATNDPIQRYLNVKYEFALERHDIYKLKDETRIPQVVLHFRSGRTIPLSTVAVTEEDKTKSLLEDGVSKCVVCQNWTDTFCKLCKMPFCNASCFADVAEQHKQACGKGEILNLDEKVGRKYPKPGLPPSGSKVRITAFEQTNVVYVRSADIQIDIAYYTVLTEVMMLGKDASKLQSTPVCGQIVLYKFEGHMSRAMVLNVDNIKEIYVVFIDFGSVEVTQLERLYECSSYLAGLTCYPVAVKLRGVPRRFVGPNIREVMYELDQSLVFNIKYSSREYDTSKGMQVVVMTEIDINRSLNRLFKTILTPVEPSVSDLGYKEDCLPYIPLHCGKNINVVVMDNTFIQCGFIYCTSIDLAYEVTKMQRDIQEYGEKIAKCATYAPPINELCIAKYEGKWRRGLSVELVGDGYPSILFIDYGNIVPTHVTDIRPYPPQFIFPIMTTQLDLIGVPEKPTDEQIKWLDKNYPIGSVITCSEITFDEETNSYSTRIEKLQEFLSLD |
| 5631 | sp|Q9NP79|VTA1\_HUMAN | MAALAPLPPLPAQFKSIQHHLRTAQEHDKRDPVVAYYCRLYAMQTGMKIDSKTPECRKFLSKLMDQLEALKKQLGDNEAITQEIVGCAHLENYALKMFLYADNEDRAGRFHKNMIKSFYTASLLIDVITVFGELTDENVKHRKYARWKATYIHNCLKNGETPQAGPVGIEEDNDIEENEDAGAASLPTQPTQPSSSSTYDPSNMPSGNYTGIQIPPGAHAPANTPAEVPHSTGVASNTIQPTPQTIPAIDPALFNTISQGDVRLTPEDFARAQKYCKYAGSALQYEDVSTAVQNLQKALKLLTTGRE |
| 5632 | sp|O75191|XYLB\_HUMAN | MAEHAPRRCCLGWDFSTQQVKVVAVDAELNVFYEESVHFDRDLPEFGTQGGVHVHKDGLTVTSPVLMWVQALDIILEKMKASGFDFSQVLALSGAGQQHGSIYWKAGAQQALTSLSPDLRLHQQLQDCFSISDCPVWMDSSTTAQCRQLEAAVGGAQALSCLTGSRAYERFTGNQIAKIYQQNPEAYSHTERISLVSSFAASLFLGSYSPIDYSDGSGMNLLQIQDKVWSQACLGACAPHLEEKLSPPVPSCSVVGAISSYYVQRYGFPPGCKVVAFTGDNPASLAGMRLEEGDIAVSLGTSDTLFLWLQEPMPALEGHIFCNPVDSQHYMALLCFKNGSLMREKIRNESVSRSWSDFSKALQSTEMGNGGNLGFYFDVMEITPEIIGRHRFNTENHKVAAFPGDVEVRALIEGQFMAKRIHAEGLGYRVMSKTKILATGGASHNREILQVLADVFDAPVYVIDTANSACVGSAYRAFHGLAGGTDVPFSEVVKLAPNPRLAATPSPGASQVYEALLPQYAKLEQRILSQTRGPPE |
| 5633 | sp|P85109|VSP1\_GLOBR | VIGGDECNINEHRFLVALYHSRSRTFLCGGTLINQEWVLTAAHCDRFFMYIRLGMHNKNVNFDDEQRRSPKEKYFFRCSNNFTKWDKDIMLIRLDSPVNNSAHIAPLSLPSNPPSVGSVCRVMGWGQTTSPQEDLSDVPRCANINLFNFTVCRAAYPWLPATSRVLCAGDMEGGIDTCNRDSGGPLICNGQFQGIVSKGQNLCAQPRKPALYTKVFDHLDWIQSIIAGNKTVTCPP |
| 5634 | sp|Q6X5Y6|WRI1\_ARATH | MKKRLTTSTCSSSPSSSVSSSTTTSSPIQSEAPRPKRAKRAKKSSPSGDKSHNPTSPASTRRSSIYRGVTRHRWTGRFEAHLWDKSSWNSIQNKKGKQVYLGAYDSEEAAAHTYDLAALKYWGPDTILNFPAETYTKELEEMQRVTKEEYLASLRRQSSGFSRGVSKYRGVARHHHNGRWEARIGRVFGNKYLYLGTYNTQEEAAAAYDMAAIEYRGANAVTNFDISNYIDRLKKKGVFPFPVNQANHQEGILVEAKQEVETREAKEEPREEVKQQYVEEPPQEEEEKEEEKAEQQEAEIVGYSEEAAVVNCCIDSSTIMEMDRCGDNNELAWNFCMMDTGFSPFLTDQNLANENPIEYPELFNELAFEDNIDFMFDDGKHECLNLENLDCCVVGRESPPSSSSPLSCLSTDSASSTTTTTTSVSCNYLV |
| 5635 | sp|P56695|WFS1\_MOUSE | MNSGTPPPSPSGPPPPPAPQPQARARLNATASLEQDKIEPPRAPRPQADPSAGRSAGEAAAPEPRAPQTGSREETDRAGPMKADVEIPFEEVLEKAKAGDPKAQTEVGKHYLRLANDADEELNSCSAVAWLILAAKQGRREAVKLLRRCLADRKGITSENEAEVKQLSSETDLERAVRKAALVMYWKLNPKKKKQVAVSELLENVGQVNEQDGGAQPGPVPKSLQKQRRMLERLVSSESKNYIALDDFVELTKKYAKGIIPTNLFLQDEDEDEDELAGKSPEDLPLRQKVVKYPLHAIMEIKEYLIDVASKAGMHWLSTIVPTHHINALIFFFIISNLTIDFFAFFIPLVVFYLSFVSMVICTLKVFQDSKAWENFRTLTDLLLRFEPNLDVEQAEVNFGWNHLEPYIHFLLSVVFVIFSFPLASKDCIPCSELAVISTFFTVTSYMSLSSSAEPYTRRALVTEVAAGLLSLLPTVPVDWRFLKVLGQTFFTVPVGHFIILNVSLPCLLYVYLFYLFFRMAQLRNFKGTYCYLVPYLVCFMWCELSVVILLQSTGLGLVRASIGYFLFLFALPILVAGLALMGTVQFARWFLSLDLTKIMVTTVICGVPLLFRWWTKANFSVMGMVKSLTKSSMVKLILVWLTAILLFCWFYVYRSEGMKVYNSTLTWQQYGFLCGPRAWKETNMARTQILCSHLEGHRVTWTGRFKYVRVTEIDNSAESAINMLPFFLGDWMRCLYGEAYPSCSSGNTSTAEEELCRLKQLAKHPCHIKKFDRYKFEITVGMPFGTNGNRGHEEDDITKDIVLRASSEFKDVLLNLRQGSLIEFSTILEGRLGSKWPVFELKAISCLNCMTQLSPARRHVKIEQDWRSTVHGALKFAFDFFFFPFLSAA |
| 5636 | sp|Q9ASS4|Y5838\_ARATH | MMMGRLVFVIWLYNCLCLLLLSSLVDADQANIDCLRTFKSQVEDPNRYLSTWVFGNETAGYICKFSGVTCWHDDENRVLSIKLSGYGLRGVFPPAVKLCADLTGLDLSRNNFSGPLPANISTLIPLVTILDLSYNSFSGEIPMLISNITFLNTLMLQHNQFTGTLPPQLAQLGRLKTFSVSDNRLVGPIPNFNQTLQFKQELFANNLDLCGKPLDDCKSASSSRGKVVIIAAVGGLTAAALVVGVVLFFYFRKLGAVRKKQDDPEGNRWAKSLKGQKGVKVFMFKKSVSKMKLSDLMKATEEFKKDNIIATGRTGTMYKGRLEDGSLLMIKRLQDSQRSEKEFDAEMKTLGSVKNRNLVPLLGYCVANKERLLMYEYMANGYLYDQLHPADEESFKPLDWPSRLKIAIGTAKGLAWLHHSCNPRIIHRNISSKCILLTAEFEPKISDFGLARLMNPIDTHLSTFVNGEFGDFGYVAPEYSRTMVATPKGDVYSFGVVLLELVTGQKATSVTKVSEEKAEEENFKGNLVEWITKLSSESKLQEAIDRSLLGNGVDDEIFKVLKVACNCVLPEIAKQRPTMFEVYQLLRAIGESYNFTADDDILIPSESGEGDFIEELIVAR |
| 5637 | sp|P0C2I9|YP12B\_YEAST | MESQQLSQHSPISHGSACASVTSKEVHTNQDPLDVSASKTEECEKASTKANSQQTTTPASSAVPENPHHASPQTAQSHSPQNGPYPQQCMMTQNQANPSGWSFYGHPSMIPYTPYQMSPMYFPPGPQSQFPQYPSSVGTPLSTPSPESGNTFTDSSSADSDMTSTKKYVRPPPMLTSPNDFPNWVKTYIKFLQNSNLGGIIPTVNGKPVRQITDDELTFLYNTFQIFAPSQFLPTWVKDILSVDYTDIMKILSKSIEKMQSDTQEANDIVTLANLQYNGSTPADAFETKVTNIIDRLNNNGIHINNKVACQLIMRGLSGEYKFLRYTRHRHLNMTVAELFLDIHAIYEEQQGSRNSKPNYRRNPSDEKNDSRSYTNTTKPKVIARNPQKTNNSKSKTARAHNVSTSNNSPSTDNDSISKSTTEPIQLNNKHDLHLGQKLTESTVNHTNHSDDELPGHLLLDSGASRTLIRSAHHIHSASSNPDINVVDAQKRNIPINAIGDLQFHFQDNTKTSIKVLHTPNIAYDLLSLNELAAVDITACFTKNVLERSDGTVLAPIVKYGDFYWVSKKYLLPSNISVPTINNVHTSESTRKYPYPFIHRMLAHANAQTIRYSLKNNTITYFNESDVDWSSAIDYQCPDCLIGKSTKHRHIKGSRLKYQNSYEPFQYLHTDIFGPVHNLPKSAPSYFISFTDETTKFRWVYPLHDRREDSILDVFTTILAFIKNQFQASVLVIQMDRGSEYTNRTLHKFLEKNGITPCYTTTADSRAHGVAERLNRTLLDDCRTQLQCSGLPNHLWFSAIEFSTIVRNSLASPKSKKSARQHAGLAGLDISTLLPFGQPVIVNDHNPNSKIHPRGIPGYALHPSRNSYGYIIYLPSLKKTVDTTNYVILQGKESRLDQFNYDALTFDEDLNRLTASYHSFIASNEIQESNDLNIESDHDFQSDIELHPEQPRNVLSKAVSPTDSTPPSTHTEDSKRVSKTNIRAPREVDPNISESNILPSKKRSSTPQISNIESTGSGGMHKLNVPLLAPMSQSNTHESSHASKSKDFRHSDSYSENETNHTNVPISSTGGTNNKTVPQISDQETEKRIIHRSPSIDASPPENNSSHNIVPIKTPTTVSEQNTEESIIADLPLPDLPPESPTEFPDPFKELPPINSHQTNSSLGGIGDSNAYTTINSKKRSLEDNETEIKVSRDTWNTKNMRSLEPPRSKKRIHLIAAVKAVKSIKPIRTTLRYDEAITYNKDIKEKEKYIEAYHKEVNQLLKMNTWDTDKYYDRKEIDPKRVINSMFIFNKKRDGTHKARFVARGDIQHPDTYDTGMQSNTVHHYALMTSLSLALDNNYYITQLDISSAYLYADIKEELYIRPPPHLGMNDKLIRLKKSHYGLKQSGANWYETIKSYLIKQCGMEEVRGWSCVFKNSQVTICLFVDDMILFSKDLNANKKIITTLKKQYDTKIINLGESDNEIQYDILGLEIKYQRGKYMKLGMENSLTEKIPKLNVPLNPKGRKLSAPGQPGLYIDQDELEIDEDEYKEKVHEMQKLIGLASYVGYKFRFDLLYYINTLAQHILFPSRQVLDMTYELIQFMWDTRDKQLIWHKNKPTEPDNKLVAISDASYGNQPYYKSQIGNIFLLNGKVIGGKSTKASLTCTSTTEAEIHAVSEAIPLLNNLSHLVQELNKKPIIKGLLTDSRSTISIIKSTNEEKFRNRFFGTKAMRLRDEVSGNNLYVYYIETKKNIADVMTKPLPIKTFKLLTNKWIH |
| 5638 | sp|Q04711|YM11B\_YEAST | MESQQLSNYPNISHGSACASVTSKEVHTNQDPLDVSASKIQEYDKASTKANSQQTTTPASSAVPENLHHASPQPASVPPPQNGPYPQQCMMTQNQANPSGWSFYGHPSMIPYTPYQMSPMYFPPGPQSQFPQYPSSVGTPLSTPSPESGNTFTDSSSADSDMTSTKKYVRPPPMLTSPNDFPNWVKTYIKFLQNSNLGGIIPTVNGKPVRQITDDELTFLYNTFQIFAPSQFLPTWVKDILSVDYTDIMKILSKSIEKMQSDTQEANDIVTLANLQYNGSTPADAFETKVTNIIDRLNNNGIHINNKVACQLIMRGLSGEYKFLRYTRHRHLNMTVAELFLDIHAIYEEQQGSRNSKPNYRRNPSDEKNDSRSYTNTTKPKVIARNPQKTNNSKSKTARAHNVSTSNNSPSTDNDSISKSTTEPIQLNNKHDLHLGQKLTESTVNHTNHSDDELPGHLLLDSGASRTLIRSAHHIHSASSNPDINVVDAQKRNIPINAIGDLQFHFQDNTKTSIKVLHTPNIAYDLLSLNELAAVDITACFTKNVLERSDGTVLAPIVKYGDFYWVSKKYLLPSNISVPTINNVHTSESTRKYPYPFIHRMLAHANAQTIRYSLKNNTITYFNESDVDWSSAIDYQCPDCLIGKSTKHRHIKGSRLKYQNSYEPFQYLHTDIFGPVHNLPKSAPSYFISFTDETTKFRWVYPLHDRREDSILDVFTTILAFIKNQFQASVLVIQMDRGSEYTNRTLHKFLEKNGITPCYTTTADSRAHGVAERLNRTLLDDCRTQLQCSGLPNHLWFSAIEFSTIVRNSLASPKSKKSARQHAGLAGLDISTLLPFGQPVIVNDHNPNSKIHPRGIPGYALHPSRNSYGYIIYLPSLKKTVDTTNYVILQGKESRLDQFNYDALTFDEDLNRLTASYQSFIASNEIQQSDDLNIESDHDFQSDIELHPEQPRNVLSKAVSPTDSTPPSTHTEDSKRVSKTNIRAPREVDPNISESNILPSKKRSSTPQISNIESTGSGGMHKLNVPLLAPMSQSNTHESSHASKSKDFRHSDSYSENETNHTNVPISSTGGTNNKTVPQISDQETEKRIIHRSPSIDASPPENNSSHNIVPIKTPTTVSEQNTEESIIADLPLPDLPPESPTEFPDPFKELPPINSHQTNSSLGGIGDSNAYTTINSKKRSLEDNETEIKVSRDTWNTKNMRSLEPPRSKKRIHLIAAVKAVKSIKPIRTTLRYDEAITYNKDIKEKEKYIEAYHKEVNQLLKMNTWDTDKYYDRKEIDPKRVINSMFIFNRKRDGTHKARFVARGDIQHPDTYDSGMQSNTVHHYALMTSLSLALDNNYYITQLDISSAYLYADIKEELYIRPPPHLGMNDKLIRLKKSLYGLKQSGANWYETIKSYLIKQCGMEEVRGWSCVFKNSQVTICLFVDDMILFSKDLNANKKIITTLKKQYDTKIINLGESDNEIQYDILGLEIKYQRGKYMKLGMENSLTEKIPKLNVPLNPKGRKLSAPGQPGLYIDQDELEIDEDEYKEKVHEMQKLIGLASYVGYKFRFDLLYYINTLAQHILFPSRQVLDMTYELIQFMWDTRDKQLIWHKNKPTEPDNKLVAISDASYGNQPYYKSQIGNIYLLNGKVIGGKSTKASLTCTSTTEAEIHAISESVPLLNNLSHLVQELNKKPITKGLLTDSKSTISIIISNNEEKFRNRFFGTKAMRLRDEVSGNHLHVCYIETKKNIADVMTKPLPIKTFKLLTNKWIH |
| 5639 | sp|G5EEM5|ZYG9\_CAEEL | MSNWDYLDEVDILPKLPPNFDELRESKKWQERKEALEALLKVLTDNERLSTKASYAELIGHLQMVLAKDANINCQALAAKCIGKFATGLRAKFSSFAGPLLPVIFEKMKEKKPMLREPLVDCSNEVGRTMQSLETGQEDILAALAKPNPQIKQQTALFVARQLDLVVPAKQPKGFIKAVVPVFGKLTGDADQDVREASLQGLGAVQRIIGDKNVKNLLGDASSDEGKMKKIGEYAEKSTASFAEEQAKNAPPVAPTSSTPSASAASGDPSGGTATAVVSSGAPVAEADPWDFLDAFDVLSKMPDGFDTNIESKKWQERKEALEGLLQLITANPKLDPKANYGALVERLQKVLEKDANINVAALAANCITGIANGLRTKFQPFAVSVTPIIFEKFKEKKPTLRDPLVACIDAVVATTNLEAVGEIVLAALGKPNPSIKTQTDLFLQRCFMKLNSQTMPKKTLKTLIPSLIKHSGDSDSEVREASYAAMGAMMRAIGEKPSLQLLADIASDNLKMSKIKEFHQKALDEAGPAEIAEMVKSIHKADAPPAAAPPKKTAPPKKQPEDEEVVEEEDEPLKPPPGDKKKKVPVKENEENEPPVVAPKAELLLSDNEDKKQRIKEEKQLKLVKWNFQAPTDEHISQLQTLLGNQAKVSLMSQLFHKDFKQHLAALDSLVRLADTSPRSLLSNSDLLLKWCTLRFFETNPAALIKVLELCKVIVELIRDTETPMSQEEVSAFVPYLLLKTGEAKDNMRTSVRDIVNVLSDVVGPLKMTPMLLDALKSKNARQRSECLLVIEYYITNAGISPLKSLSVEKTVAPFVGDKDVNVRNAAINVLVACFKFEGDQMWKAAGRMADKDKSLVEERIKRTGVKPGSGVVTSPPTGGPKILVPQQQGSVVRRPASRSRTREPEPEEVQSDTFTIRQDTMPPKTSSRYALRDDVFSSAMGRLDGTQVITPPQPVNGWSNNTFQMKRTNSSSSISSIDTSDQIQRSINNISSSLADVAQDAMFQVTYVLNQPEQRHLVDRRADLVFRASAAQLDLVIEEFNAGRDVSGTMDACTQMLFILMGGVETEHGLEPLNASPDTVKAIISSVLRCIIQIGNTESGYGMARSLNRLAMRLIYRVELSNLLCGLILAMTESLQMNTGITELVSKLSSKWCDELEKRRAQLRASDIVDSFNAFYVCALTELKMDISDSHILIVDNYLERVILQQGDVVLDAARRLSRPHMHLTSMINKILQMMRERKIDPIMPGTLEARMPQEDEAVVVRSGVQVSIDNILRDTSMAVKHIEQLNILIASSDRSWNEYMEYLKNNPMGELIKELVGECSRKKRIDFNLSHVVKSSMAVFKAMAATGPVQEEGRITPTDINRMDTMIVGTPLSRGDATITRARGNMIRPKRTTLSRDQMANIRHTLDRVKNH |
| 5640 | sp|Q12836|ZP4\_HUMAN | MWLLRCVLLCVSLSLAVSGQHKPEAPDYSSVLHCGPWSFQFAVNLNQEATSPPVLIAWDNQGLLHELQNDSDCGTWIRKGPGSSVVLEATYSSCYVTEWDSHYIMPVGVEGAGAAEHKVVTERKLLKCPMDLLARDAPDTDWCDSIPARDRLPCAPSPISRGDCEGLGCCYSSEEVNSCYYGNTVTLHCTREGHFSIAVSRNVTSPPLLLDSVRLALRNDSACNPVMATQAFVLFQFPFTSCGTTRQITGDRAVYENELVATRDVKNGSRGSVTRDSIFRLHVSCSYSVSSNSLPINVQVFTLPPPFPETQPGPLTLELQIAKDKNYGSYYGVGDYPVVKLLRDPIYVEVSILHRTDPYLGLLLQQCWATPSTDPLSQPQWPILVKGCPYIGDNYQTQLIPVQKALDLPFPSHHQRFSIFTFSFVNPTVEKQALRGPVHLHCSVSVCQPAETPSCVVTCPDLSRRRNFDNSSQNTTASVSSKGPMILLQATKDPPEKLRVPVDSKVLWVAGLSGTLILGALLVSYLAVKKQKSCPDQMCQ |
| 5641 | sp|Q5SXI5|ZN496\_MOUSE | MPTALCPRVLAPKESEEPRKMRSPPGENPSPQGEPPSPESSRRLFRRFRYQEAAGPREALQRLWELCRGWLRLERHTKEQILELLVLEQFLAILPWEIQSWVRAQEPESGEQAVAAVEALEREPGRPWQWLKHCEDPVVIDDGDGPAAPQDLEQERMSAESQSYPDAPPGALVQGTGLLSRSPGQPSEDLVPQDAFVVQEQSIRDAQPVATCQLPPNRVSPFKDMILCFSEEDWSLLDPAQTGFYGEFIIGEDYAVSMPPNEPPVQPGHSHEEENGLRVTEWTTDLQDKEIPQASCLDLSSLQPFQGEERRKWEELQVPELQPCPQVVLSQSPCPAGGDPPALKSSLDQEVTIEIVLSSSGDEDSQHSPYCTEELRSPPEDLHSVPAHQSNASAEGEVQTSQKSYVCPNCGKIFRWRVNFIRHLRSRREQKPHKCSVCGELFSDSEDLDGHLETHEAQKPYRCTACGKSFRLNSHLISHRRIHLQPASQQPMKKSEEEALETEGTGASDLLEKSKAKLSFQCGDCEKSFQRHDHLVRHRRHCHLKDETRPFQCRYCVKTFRQNYDLLRHERLHMKRRSKQALNSY |
| 5642 | sp|Q96AP4|ZUP1\_HUMAN | MLSCNICGETVTSEPDMKAHLIVHMESEIICPFCKLSGVNYDEMCFHIETAHFEQNTLERNFERINTVQYGTSDNKKDNTLQCGMEVNSSILSGCASNHPKNSAQNLTKDSTLKHEGFYSENLTESRKFLKSREKQSSLTEIKGSVYETTYSPPECPFCGKIEEHSEDMETHVKTKHANLLDIPLEDCDQPLYDCPMCGLICTNYHILQEHVDLHLEENSFQQGMDRVQCSGDLQLAHQLQQEEDRKRRSEESRQEIEEFQKLQRQYGLDNSGGYKQQQLRNMEIEVNRGRMPPSEFHRRKADMMESLALGFDDGKTKTSGIIEALHRYYQNAATDVRRVWLSSVVDHFHSSLGDKGWGCGYRNFQMLLSSLLQNDAYNDCLKGMLIPCIPKIQSMIEDAWKEGFDPQGASQLNNRLQGTKAWIGACEVYILLTSLRVKCHIVDFHKSTGPLGTHPRLFEWILNYYSSEGEGSPKVVCTSKPPIYLQHQGHSRTVIGIEEKKNRTLCLLILDPGCPSREMQKLLKQDIEASSLKQLRKSMGNLKHKQYQILAVEGALSLEEKLARRQASQVFTAEKIP |
| 5643 | sp|O95789|ZMYM6\_HUMAN | MKEPLDGECGKAVVPQQELLDKIKEEPDNAQEYGCVQQPKTQESKLKIGGVSSVNERPIAQQLNPGFQLSFASSGPSVLLPSVPAVAIKVFCSGCKKMLYKGQTAYHKTGSTQLFCSTRCITRHSSPACLPPPPKKTCTNCSKDILNPKDVITTRFENSYPSKDFCSQSCLSSYELKKKPVVTIYTKSISTKCSMCQKNADTRFEVKYQNVVHGLCSDACFSKFHSTNNLTMNCCENCGSYCYSSSGPCQSQKVFSSTSVTAYKQNSAQIPPYALGKSLRPSAEMIETTNDSGKTELFCSINCLSAYRVKTVTSSGVQVSCHSCKTSAIPQYHLAMSNGTIYSFCSSSCVVAFQNVFSKPKGTNSSAVPLSQGQVVVSPPSSRSAVSIGGGNTSAVSPSSIRGSAAASLQPLAEQSQQVALTHTVVKLKCQHCNHLFATKPELLFYKGKMFLFCGKNCSDEYKKKNKVVAMCDYCKLQKIIKETVRFSGVDKPFCSEVCKFLSARDFGERWGNYCKMCSYCSQTSPNLVENRLEGKLEEFCCEDCMSKFTVLFYQMAKCDGCKRQGKLSESIKWRGNIKHFCNLFCVLEFCHQQIMNDCLPQNKVNISKAKTAVTELPSARTDTTPVITSVMSLAKIPATLSTGNTNSVLKGAVTKEAAKIIQDESTQEDAMKFPSSQSSQPSRLLKNKGISCKPVTQTKATSCKPHTQHKECQTDLPMPNEKNDAELDSPPSKKKRLGFFQTYDTEYLKVGFIICPGSKESSPRPQCVICGEILSSENMKPANLSHHLKTKHSELENKPVDFFEQKSLEMECQNSSLKKCLLVEKSLVKASYLIAFQTAASKKPFSIAEELIKPYLVEMCSEVLGSSAGDKMKTIPLSNVTIQHRIDELSADIEDQLIQKVRESKWFALQIDESSEISNITLLLCYIRFIDYDCRDVKEELLFCIEMPTQITGFEIFELINKYIDSKSLNWKHCVGLCTDGAASMTGRYSGLKAKIQEVAMNTAAFTHCFIHRERLVAEKLSPCLHKILLQSAQILSFIKSNALNSRMLTILCEEMGSEHVSLPLHAEVRWISRGRMLKRLFELRHEIEIFLSQKHSDLAKYFHDEEWVGKLAYLSDIFSLINELNLSLQGTLTTFFNLCNKIDVFKRKLKMWLKRTQENDYDMFPSFSEFSNSSGLNMTDITRIIFEHLEGLSQVFSDCFPPEQDLRSGNLWIIHPFMNHQNNNLTDFEEEKLTELSSDLGLQALFKSVSVTQFWINAKTSYPELHERAMKFLLPFSTVYLCDAAFSALTESKQKNLLGSGPALRLAVTSLIPRIEKLVKEKE |
| 5644 | sp|Q8N5A5|ZGPAT\_HUMAN | MDEESLESALQTYRAQLQQVELALGAGLDSSEQADLRQLQGDLKELIELTEASLVSVRKSSLLAALDEERPGRQEDAEYQAFREAITEAVEAPAAARGSGSETVPKAEAGPESAAGGQEEEEGEDEEELSGTKVSAPYYSSWGTLEYHNAMVVGTEEAEDGSAGVRVLYLYPTHKSLKPCPFFLEGKCRFKENCRFSHGQVVSLDELRPFQDPDLSSLQAGSACLAKHQDGLWHAARITDVDNGYYTVKFDSLLLREAVVEGDGILPPLRTEATESDSDSDGTGDSSYARVVGSDAVDSAQSSALCPSLAVVGSDAVDSGTCSSAFAGWEVHTRGIGSRLLTKMGYEFGKGLGRHAEGRVEPIHAVVLPRGKSLDQCVETLQKQTRVGKAGTNKPPRCRGRGARPGGRPAPRNVFDFLNEKLQGQAPGALEAGAAPAGRRSKDMYHASKSAKRALSLRLFQTEEKIERTQRDIRSIQEALARNAGRHSVASAQLQEKLAGAQRQLGQLRAQEAGLQQEQRKADTHKKMTEF |
| 5645 | sp|Q9ULC8|ZDHC8\_HUMAN | MPRSPGTRLKPAKYIPVATAAALLVGSSTLFFVFTCPWLTRAVSPAVPVYNGIIFLFVLANFSMATFMDPGVFPRADEDEDKEDDFRAPLYKNVDVRGIQVRMKWCATCHFYRPPRCSHCSVCDNCVEDFDHHCPWVNNCIGRRNYRYFFLFLLSLSAHMVGVVAFGLVYVLNHAEGLGAAHTTITMAVMCVAGLFFIPVIGLTGFHVVLVTRGRTTNEQVTGKFRGGVNPFTRGCCGNVEHVLCSPLAPRYVVEPPRLPLAVSLKPPFLRPELLDRAAPLKVKLSDNGLKAGLGRSKSKGSLDRLDEKPLDLGPPLPPKIEAGTFSSDLQTPRPGSAESALSVQRTSPPTPAMYKFRPAFPTGPKVPFCGPGEQVPGPDSLTLGDDSIRSLDFVSEPSLDLPDYGPGGLHAAYPPSPPLSASDAFSGALRSLSLKASSRRGGDHVALQPLRSEGGPPTPHRSIFAPHALPNRNGSLSYDSLLNPGSPGGHACPAHPAVGVAGYHSPYLHPGATGDPPRPLPRSFSPVLGPRPREPSPVRYDNLSRTIMASIQERKDREERERLLRSQADSLFGDSGVYDAPSSYSLQQASVLSEGPRGPALRYGSRDDLVAGPGFGGARNPALQTSLSSLSSSVSRAPRTSSSSLQADQASSNAPGPRPSSGSHRSPARQGLPSPPGTPHSPSYAGPKAVAFIHTDLPEPPPSLTVQRDHPQLKTPPSKLNGQSPGLARLGPATGPPGPSASPTRHTLVKKVSGVGGTTYEISV |
| 5646 | sp|Q9FIW9|ZHD10\_ARATH | MMDMTPTITTTTTPTPKSPEPESETPTRIQPAKPISFSNGIIKRHHHHHHPLLFTYKECLKNHAAALGGHALDGCGEFMPSPSSISSDPTSLKCAACGCHRNFHRRDPDNNNDSSQIPPPPSTAVEYQPHHRHHPPPPPPPPPPRSPNSASPPPISSSYMLLSLSGTNNNNNNLASFSDLNFSAGNNHHHHHQHTLHGSRKRFRTKFSQFQKEKMHEFAERVGWKMQKRDEDDVRDFCRQIGVDKSVLKVWMHNNKNTFNRRDIAGNEIRQIDNGGGNHTPILAGEINNHNNGHHGVGGGGELHQSVSSGGGGGGFDSDSGGANGGNVNGSSSS |
| 5647 | sp|Q62947|ZEB1\_RAT | MADGPRCKRRKQANPRRNNVTNYNTVVEANSDSDDEDKLHIVEEESVTDAADCEGGVPDDELPTDQTVLPGGSDRAGSAKNCWQDDVKDDECDSDAENEQNHDPNVEEFLQQQDTAVIYPEAPEEDQRQGTPEASGHDDNGTPDAFSQLLTCPYCDRGYKRFTSLKEHIKYRHEKNEDNFSCSLCSYTFAYRTQLERHMTSHKSGREQRHVTQSGGNRKFKCTECGKAFKYKHHLKEHLRIHSGEKPYECPNCKKRFSHSGSYSSHISSKKCISLMPVNGRPRSGLKTSQCSSPSLSTSPGSPTRPQIRQKIENKPLQEPLSVNQIKTEPVDYEFKPIVVASGINCSTPLQNGVFSGGGQLQATSSPQGVVQAVVLPTVGLVSPISINLSDIQNVLKVAVDGNIIRQVLENNQASLASKEQEAVSASSIQQGGHSVISAISLPLVDQDGTTKIIINYSLEQPGQLQVVPQNLKKENPAPPKSCKSEKSPEDLTVKSEKDKSFDGAADESTCLLCEDCPGDLNALPELKHYDPEHPAQPPPPAPATEKPESSASSAGNGDLSPSQPPLKNLLSLLKAYYALNAQPSTEELTKIADSVNLPLDVVKKWFEKMQAGQIPGQSLEPPSPGPGSGNIPAKTEEQPQPVDGNEPQEDSTRGQSPLKMTSSPVLPVGSAINGSRSCTSSPSPLNLSSARNPQGYSCVSEGTQEEPQVEPLDLSLPKQQGELLERSTVSSVYQNSVYSVQEEPLNLSCAKKEPQKDSCVTDSEPVVNVVPPSANPINIAIPTVTAQLPTIVAIADQNSVPCLRALAANKQTILIPQVAYTYSATVSPAMQEPPVKVIQPNGNQDERQDTSSEGVSVEDQNDSDCTPPKKKTRKAENGMYACDLCDKIFQKSSSLLRHKYEHTGKRPHECGICRKAFKHKHHLIEHMRLHSGEKPYQCDKCGKRFSHSGSYSQHMNHRYSYCKRGAEDRDAMEQEDTGPEALPEVLPTELVGARASPSQADSDERESLTREEDEDSEKEEEEEDKEMEELQEDKECENPQEEEEEEEEEEEEEEEEEEEEAEEAEHEAAAAKTGGAVEEEAAQQAGSFQQKASGSESKRLSEEKTNEA |
| 5648 | sp|Q9WJB2|RPOA\_PRRSR | MSGILDRCTCTPNARVFMAEGQVYCTRCLSARSLLPLNLQVSELGVLGLFYRPEEPLRWTLPRAFPTVECSPAGACWLSAIFPIARMTSGNLNFQQRMVRVAAELYRAGQLTPAVLKALQVYERGCRWYPIVGPVPGVAVFANSLHVSDKPFPGATHVLTNLPLPQRPKPEDFCPFECAMATVYDIGHDAVMYVAERKVSWAPRGGDEVKFEAVPGELKLIANRLRTSFPPHHTVDMSKFAFTAPGCGVSMRVERQHGCLPADTVPEGNCWWSLFDLLPLEVQNKEIRHANQFGYQTKHGVSGKYLQRRLQVNGLRAVTDLNGPIVVQYFSVKESWIRHLKLAGEPSYSGFEDLLRIRVEPNTSPLADKEEKIFRFGSHKWYGAGKRARKARSCATATVAGRALSVRETRQAKEHEVAGANKAEHLKHYSPPAEGNCGWHCISAIANRMVNSKFETTLPERVRPPDDWATDEDLVNAIQILRLPAALDRNGACTSAKYVLKLEGEHWTVTVTPGMSPSLLPLECVQGCCGHKGGLGSPDAVEVSGFDPACLDRLAEVMHLPSSAIPAALAEMSGDSDRSASPVTTVWTVSQFFARHSGGNHPDQVRLGKIISLCQVIEDCCCSQNKTNRVTPEEVAAKIDLYLRGATNLEECLARLEKARPPRVIDTSFDWDVVLPGVEAATQTIKLPQVNQCRALVPVVTQKSLDNNSVPLTAFSLANYYYRAQGDEVRHRERLTAVLSKLEKVVREEYGLMPTEPGPRPTLPRGLDELKDQMEEDLLKLANAQTTSDMMAWAVEQVDLKTWVKNYPRWTPPPPPPKVQPRKTKPVKSLPERKPVPAPRRKVGSDCGSPVSLGGDVPNSWEDLAVSSPFDLPTPPEPATPSSELVIVSSPQCIFRPATPLSEPAPIPAPRGTVSRPVTPLSEPIPVPAPRRKFQQVKRLSSAAAIPPYQDEPLDLSASSQTEYEASPPAPPQSGGVLGVEGHEAEETLSEISDMSGNIKPASVSSSSSLSSVRITRPKYSAQAIIDSGGPCSGHLQEVKETCLSVMREACDATKLDDPATQEWLSRMWDRVDMLTWRNTSVYQAICTLDGRLKFLPKMILETPPPYPCEFVMMPHTPAPSVGAESDLTIGSVATEDVPRILEKIENVGEMANQGPLAFSEDKPVDDQLVNDPRISSRRPDESTSAPSAGTGGAGSFTDLPPSDGADADGGGPFRTVKRKAERLFDQLSRQVFDLVSHLPVFFSRLFYPGGGYSPGDWGFAAFTLLCLFLCYSYPAFGIAPLLGVFSGSSRRVRMGVFGCWLAFAVGLFKPVSDPVGAACEFDSPECRNILHSFELLKPWDPVRSLVVGPVGLGLAILGRLLGGARCIWHFLLRLGIVADCILAGAYVLSQGRCKKCWGSCIRTAPNEVAFNVFPFTRATRSSLIDLCDRFCAPKGMDPIFLATGWRGCWAGRSPIEQPSEKPIAFAQLDEKKITARTVVAQPYDPNQAVKCLRVLQSGGAMVAKAVPKVVKVSAVPFRAPFFPTGVKVDPDCRVVVDPDTFTAALRSGYSTTNLVLGVGDFAQLNGLKIRQISKPSGGGPHLMAALHVACSMALHMLAGIYVTAVGSCGTGTNDPWCANPFAVPGYGPGSLCTSRLCISQHGLTLPLTALVAGFGIQEIALVVLIFVSIGGMAHRLSCKADMLCVLLAIASYVWVPLTWLLCVFPCWLRCFSLHPLTILWLVFFLISVNMPSGILAMVLLVSLWLLGRYTNVAGLVTPYDIHHYTSGPRGVAALATAPDGTYLAAVRRAALTGRTMLFTPSQLGSLLEGAFRTRKPSLNTVNVIGSSMGSGGVFTIDGKVKCVTAAHVLTGNSARVSGVGFNQMLDFDVKGDFAIADCPNWQGAAPKTQFCTDGWTGRAYWLTSSGVEPGVIGKGFAFCFTACGDSGSPVITEAGELVGVHTGSNKQGGGIVTRPSGQFCNVAPIKLSELSEFFAGPKVPLGDVKVGSHIIKDISEVPSDLCALLAAKPELEGGLSTVQLLCVFFLLWRMMGHAWTPLVAVSFFILNEVLPAVLVRSVFSFGMFVLSWLTPWSAQVLMIRLLTAALNRNRWSLAFFSLGAVTGFVADLAATQGHPLQAVMNLSTYAFLPRMMVVTSPVPVITCGVVHLLAIILYLFKYRGPHHILVGDGVFSAAFFLRYFAEGKLREGVSQSCGMNHESLTGALAMRLNDEDLDFLMKWTDFKCFVSASNMRNAAGQFIEAAYAKALRVELAQLVQVDKVRGTLAKLEAFADTVAPQLSPGDIVVALGHTPVGSIFDLKVGSTKHTLQAIETRVLAGSKMTVARVVDPTPTPPPAPVPIPLPPKVLENGPNAWGDEDRLNKKKRRRMEALGIYVMGGKKYQKFWDKNSGDVFYEEVHNNTDEWECLRVGDPADFDPEKGTLCGHVTIENKAYHVYTSPSGKKFLVPVNPENGRVQWEAAKLSVEQALGMMNVDGELTAKELEKLKRIIDKLQGLTKEQCLNCLAASDLTRCGRGGLVVTETAVKIVKFHNRTFTLGPVNLKVASEVELKDAVEHNQHPVARPIDGGVVLLRSAVPSLIDVLISGADASPKLLAHHGPGNTGIDGTLWDFESEATKEEVALSAQIIQACDIRRGDAPEIGLPYKLYPVRGNPERVKGVLQNTRFGDIPYKTPSDTGSPVHAAACLTPNATPVTDGRSVLATTMPPGFELYVPTIPASVLDYLDSRPDCPKQLTEHGCEDAALKDLSKYDLSTQGFVLPGVLRLVRKYLFAHVGKCPPVHRPSTYPAKNSMAGINGNRFPTKDIQSVPEIDVLCAQAVRENWQTVTPCTLKKQYCGKKKTRTILGTNNFIALAHRAVLSGVTQGFMKKAFNSPIALGKNKFKELQTPVLGRCLEADLASCDRSTPAIVRWFAANLLYELACAEEHLPSYVLNCCHDLLVTQSGAVTKRGGLSSGDPITSVSNTIYSLVIYAQHMVLSYFKSGHPHGLLFLQDQLKFEDMLKVQPLIVYSDDLVLYAESPTMPNYHWWVEHLNLMLGFQTDPKKTAITDSPSFLGCRIINGRQLVPNRDRILAALAYHMKASNVSEYYASAAAILMDSCACLEYDPEWFEELVVGIAQCARKDGYSFPGTPFFMSMWEKLRSNYEGKKSRVCGYCGAPAPYATACGLDVCIYHTHFHQHCPVTIWCGHPAGSGSCSECKSPVGKGTSPLDEVLEQVPYKPPRTVIMHVEQGLTPLDPGRYQTRRGLVSVRRGIRGNEVGLPDGDYASTALLPTCKEINMVAVASNVLRSRFIIGPPGAGKTYWLLQQVQDGDVIYTPTHQTMLDMIRALGTCRFNVPAGTTLQFPVPSRTGPWVRILAGGWCPGKNSFLDEAAYCNHLDVLRLLSKTTLTCLGDFKQLHPVGFDSHCYVFDIMPQTQLKTIWRFGQNICDAIQPDYRDKLMSMVNTTRVTYVEKPVRYGQVLTPYHRDREDDAITIDSSQGATFDVVTLHLPTKDSLNRQRALVAITRARHAIFVYDPHRQLQGLFDLPAKGTPVNLAVHCDGQLIVLDRNNKECTVAQALGNGDKFRATDKRVVDSLRAICADLEGSSSPLPKVAHNLGFYFSPDLTQFAKLPVELAPHWPVVSTQNNEKWPDRLVASLRPIHKYSRACIGAGYMVGPSVFLGTPGVVSYYLTKFVKGGAQVLPETVFSTGRIEVDCREYLDDREREVAASLPHGFIGDVKGTTVGGCHHVTSRYLPRVLPKESVAVVGVSSPGKAAKALCTLTDVYLPDLEAYLHPETQSKCWKMMLDFKEVRLMVWKDKTAYFQLEGRYFTWYQLASYASYIRVPVNSTVYLDPCMGPALCNRRVVGSTHWGADLAVTPYDYGAKIILSSAYHGEMPPGYKILACAEFSLDDPVKYKHTWGFESDTAYLYEFTGNGEDWEDYNDAFRARQEGKIYKATATSLKFYFPPGPVIEPTLGLN |
| 5649 | sp|P35179|SC61G\_YEAST | MARASEKGEEKKQSNNQVEKLVEAPVEFVREGTQFLAKCKKPDLKEYTKIVKAVGIGFIAVGIIGYAIKLIHIPIRYVIV |
| 5650 | sp|P97260|SCAP\_CRIGR | MTLTERLREKISQAFYNHGLLCASYPIPIILFTGLCILACCYPLLKLPLPGTGPVEFSTPVKDYSPPPVDSDHKQGEPSEQPEWYVGAPVAYIQQIFVKSSVSPWHKNLLAVDVFRLPLSRAFQLVEEIRNHVLRDSSGTKSLEEVCLQVTDLLPGLRKLRNLLPEHGCLLLSPGNFWQNDWERFHADPDIIGTIHQHEPKTLQTSATLKDLLFGVPGKYSGVSLYTRKRTVSYTITLVFQRYHAKFLSSLRARLMLLHPSPNCSLRAENLVHVHFKEEIGIAELIPLVTTYIILFAYIYFSTRKIDMVKSKWGLALAAVVTVLSSLLMSVGLCTLFGLTPTLNGGEIFPYLVVVIGLENVLVLTKSVVSTPVDLEVKLRIAQGLSSESWSIMKNVATELGIILIGYFTLVPAIQEFCLFAVVGLVSDFFLQMFFFTTVLSIDIRRMELADLNKRLPPESCLPSAKPVGRPARYERQLAVRPAMPHTITLQPSSFRNLRLPKRLRVIYFLARTRLAQRLIMAGTVVWIGILVYTDPAGLRTYLAAQVTEQSPLGEGSLGPMPVPSGVLPASRPDPAFSIFPPDAPKLPENQTVPGELPEHAAPAEGVHDSRAPEVTWGPEDEELWRRLSFRHWPTLFNYYNITLAKRYISLLPVIPVTLRLNPQEALEGRQPQDGRSAWAPPESLPAGLWEAGPKGPGGTQAHGDITLYKVAALGLAAGIVLVLLLLCLYRVLCPRNYGQPGGGAGRRRRGELPCDDYGYAPPETEIVPLVLRGHLMDIECLASDGMLLVSCCLAGQVCVWDAQTGDCLTRIPRPGSRRDSCGGGAFETQENWERLSDGGKTSPEEPGESPPLRHRPRGPPQPALFGDQPDLTCLIDTNFSVQLPPEPTQPEPRHRAGCGRARDSGYDFSRLVQRVYQEEGLAAVRMPALRPPSPGSPLPQASQEDGAAPEKGSPPLAWAPSTAGSIWSLELQGNLIVVGRSSGRLEVWDAIEGVLCCSNDEVSSGITALVFLDRRIVAARLNGSLDFFSLETHTSLSPLQFRGTPGRGSSPSSSVYSSSNTVACHLTHTVPCAHQKPITALRAAAGRLVTGSQDHTLRVFRLEDSCCLFTLQGHSGAITTVYIDQTMVLASGGQDGAICLWDVLTGSRVSHTFAHRGDVTSLTCTTSCVISSGLDDLINIWDRSTGIKLYSIQQDLGCGASLGVISDNLLVTGGQGCVSFWDLNYGDLLQTVYLGKNSEAQPARQILVLDNAAIVCNFGSELSLVYVPSVLEKLD |
| 5651 | sp|Q9UHI7|S23A1\_HUMAN | MRAQEDLEGRTQHETTRDPSTPLPTEPKFDMLYKIEDVPPWYLCILLGFQHYLTCFSGTIAVPFLLAEALCVGHDQHMVSQLIGTIFTCVGITTLIQTTVGIRLPLFQASAFAFLVPAKAILALERWKCPPEEEIYGNWSLPLNTSHIWHPRIREVQGAIMVSSVVEVVIGLLGLPGALLNYIGPLTVTPTVSLIGLSVFQAAGDRAGSHWGISACSILLIILFSQYLRNLTFLLPVYRWGKGLTLLRIQIFKMFPIMLAIMTVWLLCYVLTLTDVLPTDPKAYGFQARTDARGDIMAIAPWIRIPYPCQWGLPTVTAAAVLGMFSATLAGIIESIGDYYACARLAGAPPPPVHAINRGIFTEGICCIIAGLLGTGNGSTSSSPNIGVLGITKVGSRRVVQYGAAIMLVLGTIGKFTALFSSLPDPILGGMFCTLFGMITAVGLSNLQFVDMNSSRNLFVLGFSMFFGLTLPNYLESNPGAINTGILEVDQILIVLLTTEMFVGGCLAFILDNTVPGSPEERGLIQWKAGAHANSDMSSSLKSYDFPIGMGIVKRITFLKYIPICPVFKGFSSSSKDQIAIPEDTPENTETASVCTKV |
| 5652 | sp|Q96ST3|SIN3A\_HUMAN | MKRRLDDQESPVYAAQQRRIPGSTEAFPHQHRVLAPAPPVYEAVSETMQSATGIQYSVTPSYQVSAMPQSSGSHGPAIAAVHSSHHHPTAVQPHGGQVVQSHAHPAPPVAPVQGQQQFQRLKVEDALSYLDQVKLQFGSQPQVYNDFLDIMKEFKSQSIDTPGVISRVSQLFKGHPDLIMGFNTFLPPGYKIEVQTNDMVNVTTPGQVHQIPTHGIQPQPQPPPQHPSQPSAQSAPAPAQPAPQPPPAKVSKPSQLQAHTPASQQTPPLPPYASPRSPPVQPHTPVTISLGTAPSLQNNQPVEFNHAINYVNKIKNRFQGQPDIYKAFLEILHTYQKEQRNAKEAGGNYTPALTEQEVYAQVARLFKNQEDLLSEFGQFLPDANSSVLLSKTTAEKVDSVRNDHGGTVKKPQLNNKPQRPSQNGCQIRRHPTGTTPPVKKKPKLLNLKDSSMADASKHGGGTESLFFDKVRKALRSAEAYENFLRCLVIFNQEVISRAELVQLVSPFLGKFPELFNWFKNFLGYKESVHLETYPKERATEGIAMEIDYASCKRLGSSYRALPKSYQQPKCTGRTPLCKEVLNDTWVSFPSWSEDSTFVSSKKTQYEEHIYRCEDERFELDVVLETNLATIRVLEAIQKKLSRLSAEEQAKFRLDNTLGGTSEVIHRKALQRIYADKAADIIDGLRKNPSIAVPIVLKRLKMKEEEWREAQRGFNKVWREQNEKYYLKSLDHQGINFKQNDTKVLRSKSLLNEIESIYDERQEQATEENAGVPVGPHLSLAYEDKQILEDAAALIIHHVKRQTGIQKEDKYKIKQIMHHFIPDLLFAQRGDLSDVEEEEEEEMDVDEATGAVKKHNGVGGSPPKSKLLFSNTAAQKLRGMDEVYNLFYVNNNWYIFMRLHQILCLRLLRICSQAERQIEEENREREWEREVLGIKRDKSDSPAIQLRLKEPMDVDVEDYYPAFLDMVRSLLDGNIDSSQYEDSLREMFTIHAYIAFTMDKLIQSIVRQLQHIVSDEICVQVTDLYLAENNNGATGGQLNTQNSRSLLESTYQRKAEQLMSDENCFKLMFIQSQGQVQLTIELLDTEEENSDDPVEAERWSDYVERYMNSDTTSPELREHLAQKPVFLPRNLRRIRKCQRGREQQEKEGKEGNSKKTMENVDSLDKLECRFKLNSYKMVYVIKSEDYMYRRTALLRAHQSHERVSKRLHQRFQAWVDKWTKEHVPREMAAETSKWLMGEGLEGLVPCTTTCDTETLHFVSINKYRVKYGTVFKAP |
| 5653 | sp|P04278|SHBG\_HUMAN | MESRGPLATSRLLLLLLLLLLRHTRQGWALRPVLPTQSAHDPPAVHLSNGPGQEPIAVMTFDLTKITKTSSSFEVRTWDPEGVIFYGDTNPKDDWFMLGLRDGRPEIQLHNHWAQLTVGAGPRLDDGRWHQVEVKMEGDSVLLEVDGEEVLRLRQVSGPLTSKRHPIMRIALGGLLFPASNLRLPLVPALDGCLRRDSWLDKQAEISASAPTSLRSCDVESNPGIFLPPGTQAEFNLRDIPQPHAEPWAFSLDLGLKQAAGSGHLLALGTPENPSWLSLHLQDQKVVLSSGSGPGLDLPLVLGLPLQLKLSMSRVVLSQGSKMKALALPPLGLAPLLNLWAKPQGRLFLGALPGEDSSTSFCLNGLWAQGQRLDVDQALNRSHEIWTHSCPQSPGNGTDASH |
| 5654 | sp|Q9Z2Q6|SEPT5\_MOUSE | MSTGLRYKSKLATPEDKQDIDKQYVGFATLPNQVHRKSVKKGFDFTLMVAGESGLGKSTLVHSLFLTDLYKDRKLLSAEERINQTVEILKHTVDIEEKGVKLKLTIVDTPGFGDAVNNSECWKPITDYVDQQFEQYFRDESGLNRKNIQDNRVHCCLYFISPFGHGLRPVDVGFMKALHEKVNIVPLIAKADCLVPSEIRKLKDRIREEIDKFGIHVYQFPECDSDEDEDFKQQDRELKESAPFAVIGSNTVVEAKGQRVRGRLYPWGIVEVENQAHCDFVKLRNMLIRTHMHDLKDVTCDVHYENYRAHCIQQMTSKLTQDSRMESPIPILPLPTPDAETEKLIRMKDEELRRMQEMLQKMKQQMQDQ |
| 5655 | sp|Q62141|SIN3B\_MOUSE | MAHAGSGGSAGRGFGGSRWGRSGSGGHEKLPVHVEDALTYLDQVKIRFGSDPATYNGFLEIMKEFKSQSIDTPGVIRRVSQLFHEHPDLIVGFNAFLPLGYRIDIPKNGKLNIQSPLSSQDNSHSHGDCGEDFKQMSYKEDRGQVPLESDSVEFNNAISYVNKIKTRFLDHPEIYRSFLEILHTYQKEQLHTKGRPFRGMSEEEVFTEVANLFRGQEDLLSEFGQFLPEAKRSLFTGNGSCEMNSGQKNEEKSLEHNKKRSRPSLLRPVSAPAKKKMKLRGTKDLSIAAVGKYGTLQEFSFFDKVRRVLKSQEVYENFLRCIALFNQELVSGSELLQLVSPFLGKFPELFAQFKSFLGVKELSFAPPMSDRSGDGISREIDYASCKRIGSSYRALPKTYQQPKCSGRTAICKEVLNDTWVSFPSWSEDSTFVSSKKTPYEEQLHRCEDERFELDVVLETNLATIRVLESVQKKLSRMAPEDQEKLRLDDCLGGTSEVIQRRAIHRIYGDKAPEVIESLKRNPATAVPVVLKRLKAKEEEWREAQQGFNKIWREQYEKAYLKSLDHQAVNFKQNDTKALRSKSLLNEIESVYDEHQEQHSEGRSAPSSEPHLIFVYEDRQILEDAAALISYYVKRQPAIQKEDQGTIRQLLHRFLPSLFFSQQCPGTSDDSADERDRDRDSAEPERRRPTDEKPPADASPEPPKVLDDVYSLFFANNNWYFFLRLHQTLCARLLKIYRQAQKQLLEHRREQEREQLLCEGRREKAADPAMELRLKQPSEVELEEYYPAFLDMVRSLLEGSIDPTQYEDTLREMFTIHAYIGFTMDKLVQNIARQLHHLVSDDVCLKVVELYLNEQQRGAAGGNLSSRCVRAARETSYQWKAERCMADENCFKVMFLQRRGQVIMTIELLDTEEAQTEDPVEVQHLARYVEQYVGSEGASSSSTEGFLLKPVFLQRNLKKFRRWQCEQVRAMRGEAKSSWKRLMGVESACDVDCRFRLGTHKMVFIVNSEDYMYRRGTLCRAKQVQPLVLLRHHRHFEEWHGRWLEDNVTVAAAGLVQDWLMGEEEEDMVPCKTLCETAHVHGLPVTRYRVQYSRRPASP |
| 5656 | sp|Q8TEJ3|SH3R3\_HUMAN | MLLGASWLCASKAAAAAAQSEGDEDRPGERRRRRAAATAAGAGEDMDESSLLDLLECSVCLERLDTTAKVLPCQHTFCRRCLESIVCSRHELRCPECRILVGCGVDELPANILLVRLLDGIRQRPRAGTSPGGSPPARPIPGQSAAPTLAGGGGGAAGSTPGSPVFLSAAAGSTAGSLRELATSRTAPAAKNPCLLPYGKALYSYEGKEPGDLKFNKGDIIVLRRKVDEQWYHGELHGTQGFLPASYIQCIQPLPHAPPQGKALYDFEMKDKDQDKDCLTFTKDEILTVLRRVDENWAEGMLGDKIGIFPLLYVELNDSAKQLIEMDKPCPAAASSCNASLPSDSGAVASVAPSPTLSSSGAVSAFQRRVDGKKNTKKRHSFTALSVTHRSSQAASHRHSMEISAPVLISSSDPRAAARIGDLAHLSCAAPTQDVSSSAGSTPTAVPRAASVSGEQGTPPKVQLPLNVYLALYAYKPQKSDELELHKGEMYRVLEKCQDGWFKGASLRTGVSGVFPGNYVTPVSRVPAGGAGPPRNNVVGGSPLAKGITTTMHPGSGSLSSLATATRPALPITTPQAHAQHPTASPPTGSCLRHSAQPTASQARSTISTAAHSAAQAQDRPTATVSPLRTQNSPSRLPATSLRPHSVVSPQHSHQPPVQMCPRPAIPLTSAASAITPPNVSAANLNGEAGGGPIGVLSTSSPTNTGCKLDEKKSEKKEKKSGLLKLLAGASTKKKSRSPPSVSPTHDPQVAVDALLQGAVGPEVSSLSIHGRAGSCPIESEMQGAMGMEPLHRKAGSLDLNFTSPSRQAPLSMAAIRPEPKLLPRERYRVVVSYPPQSEAEIELKEGDIVFVHKKREDGWYKGTLQRNGRTGLFPGSFVESF |
| 5657 | sp|Q21921|SIR2\_CAEEL | MSRDSGNDSEVAVTHGEVQEITEENPEIGSMHITQETDISDAPETNTDSSRQRTESTTSVSSESWQNNDEMMSNLRRAQRLLDDGATPLQIIQQIFPDFNASRIATMSENAHFAILSDLLERAPVRQKLTNYNSLADAVELFKTKKHILVLTGAGVSVSCGIPDFRSKDGIYARLRSEFPDLPDPTAMFDIRYFRENPAPFYNFAREIFPGQFVPSVSHRFIKELETSGRLLRNYTQNIDTLEHQTGIKRVVECHGSFSKCTCTRCGQKYDGNEIREEVLAMRVAHCKRCEGVIKPNIVFFGEDLGREFHQHVTEDKHKVDLIVVIGSSLKVRPVALIPHCVDKNVPQILINRESLPHYNADIELLGNCDDIIRDICFSLGGSFTELITSYDSIMEQQGKTKSQKPSQNKRQLISQEDFLNICMKEKRNDDSSDEPTLKKPRMSVADDSMDSEKNNFQEIQKHKSEDDDDTRNSDDILKKIKHPRLLSITEMLHDNKCVAISAHQTVFPGAECSFDLETLKLVRDVHHETHCESSCGSSCSSNADSEANQLSRAQSLDDFVLSDEDRKNTIHLDLQRADSCDGDFQYELSETIDPETFSHLCEEMRI |
| 5658 | sp|Q9Y6E7|SIR4\_HUMAN | MKMSFALTFRSAKGRWIANPSQPCSKASIGLFVPASPPLDPEKVKELQRFITLSKRLLVMTGAGISTESGIPDYRSEKVGLYARTDRRPIQHGDFVRSAPIRQRYWARNFVGWPQFSSHQPNPAHWALSTWEKLGKLYWLVTQNVDALHTKAGSRRLTELHGCMDRVLCLDCGEQTPRGVLQERFQVLNPTWSAEAHGLAPDGDVFLSEEQVRSFQVPTCVQCGGHLKPDVVFFGDTVNPDKVDFVHKRVKEADSLLVVGSSLQVYSGYRFILTAWEKKLPIAILNIGPTRSDDLACLKLNSRCGELLPLIDPC |
| 5659 | sp|Q92599|SEPT8\_HUMAN | MAATDLERFSNAEPEPRSLSLGGHVGFDSLPDQLVSKSVTQGFSFNILCVGETGIGKSTLMNTLFNTTFETEEASHHEACVRLRPQTYDLQESNVQLKLTIVDAVGFGDQINKDESYRPIVDYIDAQFENYLQEELKIRRSLFDYHDTRIHVCLYFITPTGHSLKSLDLVTMKKLDSKVNIIPIIAKADTISKSELHKFKIKIMGELVSNGVQIYQFPTDDEAVAEINAVMNAHLPFAVVGSTEEVKVGNKLVRARQYPWGVVQVENENHCDFVKLREMLIRVNMEDLREQTHSRHYELYRRCKLEEMGFQDSDGDSQPFSLQETYEAKRKEFLSELQRKEEEMRQMFVNKVKETELELKEKERELHEKFEHLKRVHQEEKRKVEEKRRELEEETNAFNRRKAAVEALQSQALHATSQQPLRKDKDKKNRSDIGAHQPGMSLSSSKVMMTKASVEPLNCSSWWPAIQCCSCLVRDATWREGFL |
| 5660 | sp|Q13530|SERC3\_HUMAN | MGAVLGVFSLASWVPCLCSGASCLLCSCCPNSKNSTVTRLIYAFILLLSTVVSYIMQRKEMETYLKKIPGFCEGGFKIHEADINADKDCDVLVGYKAVYRISFAMAIFFFVFSLLMFKVKTSKDLRAAVHNGFWFFKIAALIGIMVGSFYIPGGYFSSVWFVVGMIGAALFILIQLVLLVDFAHSWNESWVNRMEEGNPRLWYAALLSFTSAFYILSIICVGLLYTYYTKPDGCTENKFFISINLILCVVASIISIHPKIQEHQPRSGLLQSSLITLYTMYLTWSAMSNEPDRSCNPNLMSFITRITAPTLAPGNSTAVVPTPTPPSKSGSLLDSDNFIGLFVFVLCLLYSSIRTSTNSQVDKLTLSGSDSVILGDTTTSGASDEEDGQPRRAVDNEKEGVQYSYSLFHLMLCLASLYIMMTLTSWYSPDAKFQSMTSKWPAVWVKISSSWVCLLLYVWTLVAPLVLTSRDFS |
| 5661 | sp|P29353|SHC1\_HUMAN | MDLLPPKPKYNPLRNESLSSLEEGASGSTPPEELPSPSASSLGPILPPLPGDDSPTTLCSFFPRMSNLRLANPAGGRPGSKGEPGRAADDGEGIVGAAMPDSGPLPLLQDMNKLSGGGGRRTRVEGGQLGGEEWTRHGSFVNKPTRGWLHPNDKVMGPGVSYLVRYMGCVEVLQSMRALDFNTRTQVTREAISLVCEAVPGAKGATRRRKPCSRPLSSILGRSNLKFAGMPITLTVSTSSLNLMAADCKQIIANHHMQSISFASGGDPDTAEYVAYVAKDPVNQRACHILECPEGLAQDVISTIGQAFELRFKQYLRNPPKLVTPHDRMAGFDGSAWDEEEEEPPDHQYYNDFPGKEPPLGGVVDMRLREGAAPGAARPTAPNAQTPSHLGATLPVGQPVGGDPEVRKQMPPPPPCPGRELFDDPSYVNVQNLDKARQAVGGAGPPNPAINGSAPRDLFDMKPFEDALRVPPPPQSVSMAEQLRGEPWFHGKLSRREAEALLQLNGDFLVRESTTTPGQYVLTGLQSGQPKHLLLVDPEGVVRTKDHRFESVSHLISYHMDNHLPIISAGSELCLQQPVERKL |
| 5662 | sp|Q8N5H7|SH2D3\_HUMAN | MTEGTKKTSKKFKFFKFKGFGSLSNLPRSFTLRRSSASISRQSHLEPDTFEATQDDMVTVPKSPPAYARSSDMYSHMGTMPRPSIKKAQNSQAARQAQEAGPKPNLVPGGVPDPPGLEAAKEVMVKATGPLEDTPAMEPNPSAVEVDPIRKPEVPTGDVEEERPPRDVHSERAAGEPEAGSDYVKFSKEKYILDSSPEKLHKELEEELKLSSTDLRSHAWYHGRIPREVSETLVQRNGDFLIRDSLTSLGDYVLTCRWRNQALHFKINKVVVKAGESYTHIQYLFEQESFDHVPALVRYHVGSRKAVSEQSGAIIYCPVNRTFPLRYLEASYGLGQGSSKPASPVSPSGPKGSHMKRRSVTMTDGLTADKVTRSDGCPTSTSLPRPRDSIRSCALSMDQIPDLHSPMSPISESPSSPAYSTVTRVHAAPAAPSATALPASPVARRSSEPQLCPGSAPKTHGESDKGPHTSPSHTLGKASPSPSLSSYSDPDSGHYCQLQPPVRGSREWAATETSSQQARSYGERLKELSENGAPEGDWGKTFTVPIVEVTSSFNPATFQSLLIPRDNRPLEVGLLRKVKELLAEVDARTLARHVTKVDCLVARILGVTKEMQTLMGVRWGMELLTLPHGRQLRLDLLERFHTMSIMLAVDILGCTGSAEERAALLHKTIQLAAELRGTMGNMFSFAAVMGALDMAQISRLEQTWVTLRQRHTEGAILYEKKLKPFLKSLNEGKEGPPLSNTTFPHVLPLITLLECDSAPPEGPEPWGSTEHGVEVVLAHLEAARTVAHHGGLYHTNAEVKLQGFQARPELLEVFSTEFQMRLLWGSQGASSSQARRYEKFDKVLTALSHKLEPAVRSSEL |
| 5663 | sp|Q96255|SERB1\_ARATH | MAATTNSFLVGSNNTQIPALKPKSSSQSFLHLSKPNTVNFVSKTKPVAVRCVASTTQVQDGVRSGSVGSQERVFNFAAGPATLPENVLLKAQADLYNWRGSGMSVMEMSHRGKEFLSIIQKAESDLRQLLEIPQEYSVLFLQGGATTQFAALPLNLCKSDDTVDFVVTGSWGDKAVKEAKKYCKTNVIWSGKSEKYTKVPSFEELEQTPDAKYLHICANETIHGVEFKDYPVPKNGFLVADMSSNFCSKPVDVSKFGVIYGGAQKNVGPSGVTIVIIRKDLIGNAQDITPVMLDYKIHDENSSLYNTPPCFGIYMCGLVFEDLLEQGGLKEVEKKNQRKADLLYNAIEESNGFFRCPVEKSVRSLMNVPFTLEKSELEAEFIKEAAKEKMVQLKGHRSVGGMRASIYNAMPLAGVEKLVAFMKDFQAKHA |
| 5664 | sp|Q7TNK0|SERC1\_RAT | MGSVLGLCSVASWIPCLCGSAPCLLCRCCPSGNNSTVTRLIYALFLLVGVCVACVMLIPGMEEQLNKIPGFCENEKGVVPCNILVGYKAVYRLCFGLAMFYLLLSLLMIKVKSSSDPRAAVHNGFWFFKFATAVAIIIGAFFIPEGTFTTVWFYVGMAGAFCFILIQLVLLIDFAHSWNESWVEKMEEGNSRCWYAALLSATALNYLLSLVAIILFFVYYTHPASCSENKAFISVNMLLCIGASVMSILPKIQESQPRSGLLQSSVITIYTMYLTWSAMTNEPETNCNPSLLSIIGFNTTRPVPKDGQSVQWWHPQGIIGLVLFLLCVFYSSIRTSNNSQVNKLTLTSDESTLIEDGNGRSDGSLDDGEGVHRAVDNERDGVTYSYSFFHFMLFLASLYIMMTLTNWYRYEPSREMKSQWTAVWVKISSSWIGIVLYVWTLVAPLVLTNRDFD |
| 5665 | sp|Q6ZXC8|SIA8E\_RAT | MRYADPSANRDLLGNRTLLFIFICAFALVTLLQQILYSKSYIKRYFEFYKEPLEFNSTRCLELRQEILEVKVLSMVKQSELFERWKSLQICKWAMDASEASLFKSTLSRCCNAPNFLFTTQKNTPVETNLRYEVESSGLYHIDQEIFKMFPKEMPYYRSQFKKCAVVGNGGILKNSGCGKEINSADFVFRCNLPPISGIYTTDVGEKTDVVTVNPSIIIDRFHKLEKWRRPFFSVLQRYENASVLLPAFYNVRNTLVSFRVKYMLDDFQSRQPVYFFHPQYLSSVSRYWLSLGVRARRISTGLILVTAALELCEEVHLFGFWAFPMNPSGFFITHHYYDNVKPKPGFHAMPSEIFTFLRMHSRGILRVHTGTCNCC |
| 5666 | sp|Q9LU44|SF1\_ARATH | MESVEMNNPNSQTLDQPPPSSNGDTAPLALDHMNPQNSESVALNGSSTPIPDTNGSSAKPELLRPLLSENGVSKTLSGNDKDQSGGEEETTSRRKRRSRWDPPPSESINNPSAEGGTDSGTGTRKRKSRWADDEPRTQIQLPDFMKDFTGGIEFDPEIQALNSRLLEISRMLQSGMPLDDRPEGQRSPSPEPVYDNMGIRINTREYRARERLNRERQEIIAQIIKKNPAFKPPADYRPPKLHKKLFIPMKEFPGYNFIGLIIGPRGNTQKRMERETGAKIVIRGKGSVKEGRHQQKKDLKYDPSENEDLHVLVEAETQEALEAAAGMVEKLLQPVDEVLNEHKRQQLRELATLNGTIRDEEFCRLCGEPGHRQYACPSRTNTFKSDVLCKICGDGGHPTIDCPVKGTTGKKMDDEYQNFLAELGGTVPESSLKQSATLALGPGSSGSNPPWANNAGNGASAHPGLGSTPTKPPSKEYDETNLYIGFLPPMLEDDGLINLFSSFGEIVMAKVIKDRVTGLSKGYGFVKYADVQMANTAVQAMNGYRFEGRTLAVRIAGKSPPPIAPPGPPAPQPPTQGYPPSNQPPGAYPSQQYATGGYSTAPVPWGPPVPSYSPYALPPPPPGSYHPVHGQHMPPYGMQYPPPPPHVTQAPPPGTTQNPSSSEPQQSFPPGVQADSGAATSSIPPNVYGSSVTAMPGQPPYMSYPSYYNAVPPPTPPAPASSTDHSQNMGNMPWANNPSVSTPDHSQGLVNAPWAPNPPMPPTVGYSQSMGNVPWAPKPPVQPPAENPSSVGESEYEKFMAEMK |
| 5667 | sp|Q96KG9|SCYL1\_HUMAN | MWFFARDPVRDFPFELIPEPPEGGLPGPWALHRGRKKATGSPVSIFVYDVKPGAEEQTQVAKAAFKRFKTLRHPNILAYIDGLETEKCLHVVTEAVTPLGIYLKARVEAGGLKELEISWGLHQIVKALSFLVNDCSLIHNNVCMAAVFVDRAGEWKLGGLDYMYSAQGNGGGPPRKGIPELEQYDPPELADSSGRVVREKWSADMWRLGCLIWEVFNGPLPRAAALRNPGKIPKTLVPHYCELVGANPKVRPNPARFLQNCRAPGGFMSNRFVETNLFLEEIQIKEPAEKQKFFQELSKSLDAFPEDFCRHKVLPQLLTAFEFGNAGAVVLTPLFKVGKFLSAEEYQQKIIPVVVKMFSSTDRAMRIRLLQQMEQFIQYLDEPTVNTQIFPHVVHGFLDTNPAIREQTVKSMLLLAPKLNEANLNVELMKHFARLQAKDEQGPIRCNTTVCLGKIGSYLSASTRHRVLTSAFSRATRDPFAPSRVAGVLGFAATHNLYSMNDCAQKILPVLCGLTVDPEKSVRDQAFKAIRSFLSKLESVSEDPTQLEEVEKDVHAASSPGMGGAAASWAGWAVTGVSSLTSKLIRSHPTTAPTETNIPQRPTPEGVPAPAPTPVPATPTTSGHWETQEEDKDTAEDSSTADRWDDEDWGSLEQEAESVLAQQDDWSTGGQVSRASQVSNSDHKSSKSPESDWSSWEAEGSWEQGWQEPSSQEPPPDGTRLASEYNWGGPESSDKGDPFATLSARPSTQPRPDSWGEDNWEGLETDSRQVKAELARKKREERRREMEAKRAERKVAKGPMKLGARKLD |
| 5668 | sp|P70390|SHOX2\_MOUSE | MEELTAFVSKSFDQKVKEKKEAITYREVLESGPLRGAKEPGCVEPGRDDRSSPAVRAAGGGGGAGGGGGGGGGGGGGAGGGGAGGGAGGGRSPVRELDMGAAERSREPGSPRLTEVSPELKDRKDDAKGMEDEGQTKIKQRRSRTNFTLEQLNELERLFDETHYPDAFMREELSQRLGLSEARVQVWFQNRRAKCRKQENQLHKGVLIGAASQFEACRVAPYVNVGALRMPFQQDSHCNVTPLSFQVQAQLQLDSAVAHAHHHLHPHLAAHAPYMMFPAPPFGLPLATLAADSASAASVVAAAAAAKTTSKNSSIADLRLKAKKHAAALGL |
| 5669 | sp|O46631|SHPS1\_BOVIN | MEPARPAPGRLRPLLCLLLAASNAWTGTAGDGELQVIQPERSVSVAAGETATLHCTVTSLSPVGPIKWFKGTGPGREFIYSQKEAPFPRVTNVSDATKRNNMDFSIRISNITPADAGVYYCVKFRKEERGDMEFKSGPGTHLTVSAKPSPPVLSGPTVRATPEQTVNFTCTSHGFSPRNISLKWFKNGNELSASQTSVDPEDNNVSYSINSTTKVLLATGDVHSQVICEVAHVTLQGGPPLRGTANLSETIRVPPTLEITGSPSAGNQVNVTCQVNKFYPRHLQLTWLENGNMSRTEAASVFVENKDGTFNQTSWFLVNSSAHREAVVLTCQVEHDGQPAVSKNHTLEVSAPQKDQDTGQTPGPNDSNWTSIFIVVGVVCALLVALLIAALYLLRIRQNKAKGSTSSTRLHEPEKNTRETTQIQDNNDITYADLNLPKGKKSTPKANEPNNHTEYASIQARPPPVSEDTLTYADLDMVHLNRTPKQPAPKPEPSYSEYASVQVQRK |
| 5670 | sp|Q9H4L4|SENP3\_HUMAN | MKETIQGTGSWGPEPPGPGIPPAYSSPRRERLRWPPPPKPRLKSGGGFGPDPGSGTTVPARRLPVPRPSFDASASEEEEEEEEEEDEDEEEEVAAWRLPPRWSQLGTSQRPRPSRPTHRKTCSQRRRRAMRAFRMLLYSKSTSLTFHWKLWGRHRGRRRGLAHPKNHLSPQQGGATPQVPSPCCRFDSPRGPPPPRLGLLGALMAEDGVRGSPPVPSGPPMEEDGLRWTPKSPLDPDSGLLSCTLPNGFGGQSGPEGERSLAPPDASILISNVCSIGDHVAQELFQGSDLGMAEEAERPGEKAGQHSPLREEHVTCVQSILDEFLQTYGSLIPLSTDEVVEKLEDIFQQEFSTPSRKGLVLQLIQSYQRMPGNAMVRGFRVAYKRHVLTMDDLGTLYGQNWLNDQVMNMYGDLVMDTVPEKVHFFNSFFYDKLRTKGYDGVKRWTKNVDIFNKELLLIPIHLEVHWSLISVDVRRRTITYFDSQRTLNRRCPKHIAKYLQAEAVKKDRLDFHQGWKGYFKMNVARQNNDSDCGAFVLQYCKHLALSQPFSFTQQDMPKLRRQIYKELCHCKLTV |
| 5671 | sp|P54900|SCN2B\_RAT | MHRDAWLPRPAFSLTGLSLFFSLVPSGRSMEVTVPTTLSVLNGSDTRLPCTFNSCYTVNHKQFSLNWTYQECSNCSEEMFLQFRMKIINLKLERFGDRVEFSGNPSKYDVSVTLKNVQLEDEGIYNCYITNPPDRHRGHGKIYLQVLLEVPPERDSTVAVIVGASVGGFLAVVILVLMVVKCVRRKKEQKLSTDDLKTEEEGKTDGEGNAEDGAK |
| 5672 | sp|Q9NQ36|SCUB2\_HUMAN | MGVAGRNRPGAAWAVLLLLLLLPPLLLLAGAVPPGRGRAAGPQEDVDECAQGLDDCHADALCQNTPTSYKCSCKPGYQGEGRQCEDIDECGNELNGGCVHDCLNIPGNYRCTCFDGFMLAHDGHNCLDVDECLENNGGCQHTCVNVMGSYECCCKEGFFLSDNQHTCIHRSEEGLSCMNKDHGCSHICKEAPRGSVACECRPGFELAKNQRDCILTCNHGNGGCQHSCDDTADGPECSCHPQYKMHTDGRSCLEREDTVLEVTESNTTSVVDGDKRVKRRLLMETCAVNNGGCDRTCKDTSTGVHCSCPVGFTLQLDGKTCKDIDECQTRNGGCDHFCKNIVGSFDCGCKKGFKLLTDEKSCQDVDECSLDRTCDHSCINHPGTFACACNRGYTLYGFTHCGDTNECSINNGGCQQVCVNTVGSYECQCHPGYKLHWNKKDCVEVKGLLPTSVSPRVSLHCGKSGGGDGCFLRCHSGIHLSSDVTTIRTSVTFKLNEGKCSLKNAELFPEGLRPALPEKHSSVKESFRYVNLTCSSGKQVPGAPGRPSTPKEMFITVEFELETNQKEVTASCDLSCIVKRTEKRLRKAIRTLRKAVHREQFHLQLSGMNLDVAKKPPRTSERQAESCGVGQGHAENQCVSCRAGTYYDGARERCILCPNGTFQNEEGQMTCEPCPRPGNSGALKTPEAWNMSECGGLCQPGEYSADGFAPCQLCALGTFQPEAGRTSCFPCGGGLATKHQGATSFQDCETRVQCSPGHFYNTTTHRCIRCPVGTYQPEFGKNNCVSCPGNTTTDFDGSTNITQCKNRRCGGELGDFTGYIESPNYPGNYPANTECTWTINPPPKRRILIVVPEIFLPIEDDCGDYLVMRKTSSSNSVTTYETCQTYERPIAFTSRSKKLWIQFKSNEGNSARGFQVPYVTYDEDYQELIEDIVRDGRLYASENHQEILKDKKLIKALFDVLAHPQNYFKYTAQESREMFPRSFIRLLRSKVSRFLRPYK |
| 5673 | sp|Q9VK33|SMBT\_DROME | MNPSELRMMWMSSQYNSERITLEDAATLLGHPTVGLSVMEDLSAHQPTLDMNPMMSLMGGDFTGQAAATAAALGVQPGTLIATNSNNLYGFAHMGGLQQQLLQQSAAAAVFQNYAEAMDNDVENGMVGMAMEAVVDDDDQVYGQRDNNFDDNGSELEPKQEIINIDDFVMMNEDNNSYDGTDFMTSSDKDISQSSSSCMAQMPGSLGVPGVEHDLLVPLPDGLLHHKLLGTTLVPAMGTLNGNAFGNIMVSTENTSSKQMQRTYSTAKGANSTATTATCSASTSSALRSQRKTRKIEPVNRPGLVLKTPIAYRGNIDPSVIPIQKDGMAVCKRCGAIGVKHTFYTKSRRFCSMACARGELYSLVLNTKMEGDQATTSSPDPGAGSESADLPGDQQQSQSDIELDLHAAHIKNANYRFRITDQSKITQLNSFGEPMSMGGDAAANNVQMAADETIAALNGGAVGDATAPGSTEEGASTPNSYLSAAPTPKALRLFKDIYPQDDLPQIPKYERLPVPCPQMEKIISIRRRMYDPTHSYDWLPRLSKENFNAAPVTCFPHAPGCEVWDNLGVGMKVEVENTDCDSIEVIQPGQTPTSFWVATILEIKGYKALMSYEGFDTDSHDFWVNLCNAEVHSVGWCATRGKPLIPPRTIEHKYKDWKDFLVGRLSGARTLPSNFYNKINDSLQSRFRLGLNLECVDKDRISQVRLATVTKIVGKRLFLRYFDSDDGFWCHEDSPIIHPVGWATTVGHNLAAPQDYLERMLAGREAMIEVHEDDATIELFKMNFTFDEYYSDGKTNSFVEGMKLEAVDPLNLSSICPATVMAVLKFGYMMIRIDSYQPDASGSDWFCYHEKSPCIFPAGFCSVNNISVTPPNGYDSRTFTWEGYLRDTGAVAAGQHLFHRIIPDHGFEVGMSLECADLMDPRLVCVATVARVVGRLLKVHFDGWTDEYDQWLDCESADIYPVGWCVLVNHKLEGPPRVAHQQAPKPAPKPKIQRKRKPKKGAAGGKTPTDNNTQSVKSRTIALKTTPHLPKLSIKLELKPEHHNAAFYENNQPEEEGDEEDPDADGDGDGSTSHISEQSTTQSSSDLIAGSGSGSGSASLVTLATGSNKTNSSATNNKYIPRLADIDSSEPHLELVPDTWNVYDVSQFLRVNDCTAHCDTFSRNKIDGKRLLQLTKDDIMPLLGMKVGPALKISDLIAQLKCKVNPGRARSHKTNKSPFL |
| 5674 | sp|Q6V4S5|SDK2\_MOUSE | MFSSMWRLPLWTLLALHRIHSAGAQDDVPPYFKTEPVRTQVHLEGNRLVLTCMAEGSWPLEFKWLHNNRELTRFSLEYRYMITSLDRTHAGFYRCIVRNRMGALLQRQTEVQVAYMGSFEEGEKRQSVNHGEAAVIRAPRISSFPRPQVTWFRDGRKIPPSSRIAITLENTLVILSTVAPDAGRYYVQAVNDKNGDNKTSQPITLAVENVGGPADPIAPTIIIPPKNTSVVAGTSEVTMECVANARPLIKLHIVWKKDGAPLSSGISDYNRRLTIANPTVSDAGYYECEAMLRSSSVAPVTRGAYLSVLEPPQFVREPERHITAEMEKVVDIPCRAKGVPPPSITWYKDAALVEVGKLTRFKQRSDGGLQISGLLPDDTGMLQCFAHNAAGEAQTSTYLAVTSIAPNITRGPLDSTVIDGMSVVLACETSGAPRPAITWQKGERILASGSVQLPRFTLLESGSLLISPTHISDAGTYTCLATNSRGVDEASADLVVWARTRITKPPQDQSVIKGTQASMVCGVTHDPRVTVRYVWEKDGATLAVETNPRIRLDRNGSLHISQTWSGDIGTYTCRVLSAGGNDSRNAHLRVRQLPHAPEHPVATLSTVERRAINLTWAKPFDGNSPLMRYVLEMSENNAPWTILLASVDPEATSVMVKGLVPARSYQFRLCAVNDVGKGQFSKDTERVSLPEEPPTAPPQNVIASGRTNQSIMIQWQPPPESHQNGILKGYIIRYCLAGLPVGYQFKNITDADVNNLLLEDLIIWTNYEIEVAAYNSAGLGVYSSKVTEWTLQGVPTVPPGNVHAEATNSTTIRFTWNAPSPQFINGINQGYKLIAWEPAQEEEVTMVTARPNFQDSIHVGFVSGLKKFTEYFTSVLCFTTPGDGPRSSPQLVRTHEDVPGPVGHLSFNDILDTSLKVSWQEPGEKNGILTGYRISWEEYNRTNTRVTHYLPNVTLEYRVTGLTALTTYTIEVAAMTSKGQGQVSASTISSGVPPELPGAPTNLGISNIGPRSVTLQFRPGYDGKTSISRWVVEAQVGVIGEGEEWLLIYQLGNEPDARSMEVPDLNPFTYYSFRMRQVNIVGTSPPSQPSRKIQTLQAPPDIAPANVTLRTASETSLWLRWMPLPEMEYNGNPESVGYKIKYGRSDGHGKTLSHTVQDRVEREYTIEDLEEWTEYRVQVQAFNAIGSGPWSQAVVGRTRESVPSSGPTNVSALATTSSSMLVRWSEIPEADRNGLVLGYKVRYKEKDSDSQPRFWLVEGNSSRSAQLTGLGKYVLYEVQVLAFTRIGDGSPSHPPILERTLDDVPGPPMGILFPEVRTTSVRLIWQPPAAPNGIILAYQITHRLNATTANTATVEVLAPSARQYMATGLKPESVYLFRITAQTRKGWGEAAEALVVTTEKRDRPQPPSKPVVQQEDVKARSVLLSWEPGSDGLSPVRYYTIQTRELPSGRWALHSASVSHNASAFTVDRLKPFTSYKFRVKATNDIGDSEFSEESESLTTLQAAPDEAPTILSVTPHTTTSVLIRWQPPSEDKINGILLGFRIRYRELLYDGLRGFTLRGINNPGAKWAELTSLYSMRNLTRPSLTQYELDNLSKHRRYEIRMSIYNAVGEGPLSPPQEVFVGEAVPTAAPQNVAIHSATATQLDVTWEPPPLDNQNGDIQGYKIYFWEVQRRNLTERVKTLFLAENSVKLKNLTGYTAYMVSVAAFNAAGDGPRSTPTRGQTQQAAPSAPGSVKFSELTTTSVNVSWDAPQFPNGPLEGYRLVYEPCTPVDGVSKIVTVDVKGNSPLWLKVKDLAEGMTYRFRIKAKTFTYGPEIEANITTGPGEGAPGPPGVPIIVRYSSAIAIHWSSGDPGKGPITRYVIEARPSDEGLWDILIKDIPKEVTSYTFSMDILKPGVSYDFRVIAVNDYGFGTPSSPSQSVPAQKASPFYEEWWFLVVIALVGLIFILLLVFVLIIRGQSKKYSKKTDSGGNTKSGALGHGEMLSLDESSFPALELNNRRLSVKNSFCRKNGLYTRSPPRPSPGSLHYSDEDVTKYNDLIPAESSSLTEKPSEISDSQGSDSEYEVDTNTQKAHSFVNHYISDPTYYNSWRRQQKGISRAQAYSYTESDSGEPDHVTVPNSNSTQQGSLFRPKASRTPTPQNPPNPQSQQSTLYRPPSSLAPGSRAPIAGFSSFV |
| 5675 | sp|Q6X4U4|SOSD1\_HUMAN | MLPPAIHFYLLPLACILMKSCLAFKNDATEILYSHVVKPVPAHPSSNSTLNQARNGGRHFSNTGLDRNTRVQVGCRELRSTKYISDGQCTSISPLKELVCAGECLPLPVLPNWIGGGYGTKYWSRRSSQEWRCVNDKTRTQRIQLQCQDGSTRTYKITVVTACKCKRYTRQHNESSHNFESMSPAKPVQHHRERKRASKSSKHSMS |
| 5676 | sp|Q92673|SORL\_HUMAN | MATRSSRRESRLPFLFTLVALLPPGALCEVWTQRLHGGSAPLPQDRGFLVVQGDPRELRLWARGDARGASRADEKPLRRKRSAALQPEPIKVYGQVSLNDSHNQMVVHWAGEKSNVIVALARDSLALARPKSSDVYVSYDYGKSFKKISDKLNFGLGNRSEAVIAQFYHSPADNKRYIFADAYAQYLWITFDFCNTLQGFSIPFRAADLLLHSKASNLLLGFDRSHPNKQLWKSDDFGQTWIMIQEHVKSFSWGIDPYDKPNTIYIERHEPSGYSTVFRSTDFFQSRENQEVILEEVRDFQLRDKYMFATKVVHLLGSEQQSSVQLWVSFGRKPMRAAQFVTRHPINEYYIADASEDQVFVCVSHSNNRTNLYISEAEGLKFSLSLENVLYYSPGGAGSDTLVRYFANEPFADFHRVEGLQGVYIATLINGSMNEENMRSVITFDKGGTWEFLQAPAFTGYGEKINCELSQGCSLHLAQRLSQLLNLQLRRMPILSKESAPGLIIATGSVGKNLASKTNVYISSSAGARWREALPGPHYYTWGDHGGIITAIAQGMETNELKYSTNEGETWKTFIFSEKPVFVYGLLTEPGEKSTVFTIFGSNKENVHSWLILQVNATDALGVPCTENDYKLWSPSDERGNECLLGHKTVFKRRTPHATCFNGEDFDRPVVVSNCSCTREDYECDFGFKMSEDLSLEVCVPDPEFSGKSYSPPVPCPVGSTYRRTRGYRKISGDTCSGGDVEARLEGELVPCPLAEENEFILYAVRKSIYRYDLASGATEQLPLTGLRAAVALDFDYEHNCLYWSDLALDVIQRLCLNGSTGQEVIINSGLETVEALAFEPLSQLLYWVDAGFKKIEVANPDGDFRLTIVNSSVLDRPRALVLVPQEGVMFWTDWGDLKPGIYRSNMDGSAAYHLVSEDVKWPNGISVDDQWIYWTDAYLECIERITFSGQQRSVILDNLPHPYAIAVFKNEIYWDDWSQLSIFRASKYSGSQMEILANQLTGLMDMKIFYKGKNTGSNACVPRPCSLLCLPKANNSRSCRCPEDVSSSVLPSGDLMCDCPQGYQLKNNTCVKQENTCLRNQYRCSNGNCINSIWWCDFDNDCGDMSDERNCPTTICDLDTQFRCQESGTCIPLSYKCDLEDDCGDNSDESHCEMHQCRSDEYNCSSGMCIRSSWVCDGDNDCRDWSDEANCTAIYHTCEASNFQCRNGHCIPQRWACDGDTDCQDGSDEDPVNCEKKCNGFRCPNGTCIPSSKHCDGLRDCSDGSDEQHCEPLCTHFMDFVCKNRQQCLFHSMVCDGIIQCRDGSDEDAAFAGCSQDPEFHKVCDEFGFQCQNGVCISLIWKCDGMDDCGDYSDEANCENPTEAPNCSRYFQFRCENGHCIPNRWKCDRENDCGDWSDEKDCGDSHILPFSTPGPSTCLPNYYRCSSGTCVMDTWVCDGYRDCADGSDEEACPLLANVTAASTPTQLGRCDRFEFECHQPKTCIPNWKRCDGHQDCQDGRDEANCPTHSTLTCMSREFQCEDGEACIVLSERCDGFLDCSDESDEKACSDELTVYKVQNLQWTADFSGDVTLTWMRPKKMPSASCVYNVYYRVVGESIWKTLETHSNKTNTVLKVLKPDTTYQVKVQVQCLSKAHNTNDFVTLRTPEGLPDAPRNLQLSLPREAEGVIVGHWAPPIHTHGLIREYIVEYSRSGSKMWASQRAASNFTEIKNLLVNTLYTVRVAAVTSRGIGNWSDSKSITTIKGKVIPPPDIHIDSYGENYLSFTLTMESDIKVNGYVVNLFWAFDTHKQERRTLNFRGSILSHKVGNLTAHTSYEISAWAKTDLGDSPLAFEHVMTRGVRPPAPSLKAKAINQTAVECTWTGPRNVVYGIFYATSFLDLYRNPKSLTTSLHNKTVIVSKDEQYLFLVRVVVPYQGPSSDYVVVKMIPDSRLPPRHLHVVHTGKTSVVIKWESPYDSPDQDLLYAVAVKDLIRKTDRSYKVKSRNSTVEYTLNKLEPGGKYHIIVQLGNMSKDSSIKITTVSLSAPDALKIITENDHVLLFWKSLALKEKHFNESRGYEIHMFDSAMNITAYLGNTTDNFFKISNLKMGHNYTFTVQARCLFGNQICGEPAILLYDELGSGADASATQAARSTDVAAVVVPILFLILLSLGVGFAILYTKHRRLQSSFTAFANSHYSSRLGSAIFSSGDDLGEDDEDAPMITGFSDDVPMVIA |
| 5677 | sp|Q4LDG0|S27A5\_MOUSE | MGIWKKLTLLLLLLLLVGLGQPPWPAAMALALRWFLGDPTCLVLLGLALLGRPWISSWMPHWLSLVGAALTLFLLPLQPPPGLRWLHKDVAFTFKMLFYGLKFRRRLNKHPPETFVDALERQALAWPDRVALVCTGSEGSSITNSQLDARSCQAAWVLKAKLKDAVIQNTRDAAAILVLPSKTISALSVFLGLAKLGCPVAWINPHSRGMPLLHSVRSSGASVLIVDPDLQENLEEVLPKLLAENIHCFYLGHSSPTPGVEALGASLDAAPSDPVPASLRATIKWKSPAIFIFTSGTTGLPKPAILSHERVIQVSNVLSFCGCRADDVVYDVLPLYHTIGLVLGFLGCLQVGATCVLAPKFSASRFWAECRQHGVTVILYVGEILRYLCNVPEQPEDKIHTVRLAMGNGLRANVWKNFQQRFGPIRIWEFYGSTEGNVGLMNYVGHCGAVGRTSCILRMLTPFELVQFDIETAEPLRDKQGFCIPVEPGKPGLLLTKVRKNQPFLGYRGSQAESNRKLVANVRRVGDLYFNTGDVLTLDQEGFFYFQDRLGDTFRWKGENVSTGEVECVLSSLDFLEEVNVYGVPVPGCEGKVGMAAVKLAPGKTFDGQKLYQHVRSWLPAYATPHFIRIQDSLEITNTYKLVKSRLVREGFDVGIIADPLYILDNKAQTFRSLMPDVYQAVCEGTWNL |
| 5678 | sp|Q8MNV0|SPAST\_CAEEL | MFAFSKGPAGSSTYDRVAQKFQDGYEKMRAAIEMDELTKHAGSIQEKLRTAELYKEARSLLKEANEFNIMDIPETRRSEIRDKRQNMMKLEKSAQDRLIAICNEVDPNVKQSRSATVGPSRPASAARVTPRPTRATAPEKKNAAKAKENDENRHVCSRGDRCGAHHQPVTKKSDTVHPEPPVQASNRKMETVKRVKVDKASLPMHQNPVNRAALLNGVDKVIGERLLDEVLDNTGVRMDDVAGCHSAKAALEEAVILPALNPNLFKGLRQPVKGILLFGPPGNGKTLLAKAVAGESKQMFFNISASSLTSKWVGDSEKTIRGLFQIARNAQPSIIFIDEIDSILCERSEKDAEVSRRMKTEFLVQFDGATSSADDRILVIGATNRPHELDDAVLRRFPKRIMLNLPDEEARKELITKTLKKHNMMDGLISSDIRYIASNTSGFSNSDLVALCKEAAMVPIREIDRSKLSMTDGEKIRKIRASDFDTALRTIRPSTSQKIMSKLSDFSRSFGC |
| 5679 | sp|P09132|SRP19\_HUMAN | MACAAARSPADQDRFICIYPAYLNNKKTIAEGRRIPISKAVENPTATEIQDVCSAVGLNVFLEKNKMYSREWNRDVQYRGRVRVQLKQEDGSLCLVQFPSRKSVMLYAAEMIPKLKTRTQKTGGADQSLQQGEGSKKGKGKKKK |
| 5680 | sp|Q92959|SO2A1\_HUMAN | MGLLPKLGASQGSDTSTSRAGRCARSVFGNIKVFVLCQGLLQLCQLLYSAYFKSSLTTIEKRFGLSSSSSGLISSLNEISNAILIIFVSYFGSRVHRPRLIGIGGLFLAAGAFILTLPHFLSEPYQYTLASTGNNSRLQAELCQKHWQDLPPSKCHSTTQNPQKETSSMWGLMVVAQLLAGIGTVPIQPFGISYVDDFSEPSNSPLYISILFAISVFGPAFGYLLGSVMLQIFVDYGRVNTAAVNLVPGDPRWIGAWWLGLLISSALLVLTSFPFFFFPRAMPIGAKRAPATADEARKLEEAKSRGSLVDFIKRFPCIFLRLLMNSLFVLVVLAQCTFSSVIAGLSTFLNKFLEKQYGTSAAYANFLIGAVNLPAAALGMLFGGILMKRFVFSLQAIPRIATTIITISMILCVPLFFMGCSTPTVAEVYPPSTSSSIHPQSPACRRDCSCPDSIFHPVCGDNGIEYLSPCHAGCSNINMSSATSKQLIYLNCSCVTGGSASAKTGSCPVPCAHFLLPAIFLISFVSLIACISHNPLYMMVLRVVNQEEKSFAIGVQFLLMRLLAWLPSPALYGLTIDHSCIRWNSLCLGRRGACAYYDNDALRDRYLGLQMGYKALGMLLLCFISWRVKKNKEYNVQKAAGLI |
| 5681 | sp|Q6PHU5|SORT\_MOUSE | MERPRGAADGLLRWPLGLLLLLQLLPPAAVGQDRLDAPPPPAPPLLRWAGPVGVSWGLRAAAPGGPVPRAGRWRRGAPAEDQDCGRLPDFIAKLTNNTHQHVFDDLSGSVSLSWVGDSTGVILVLTTFQVPLVIVSFGQSKLYRSEDYGKNFKDITNLINNTFIRTEFGMAIGPENSGKVILTAEVSGGSRGGRVFRSSDFAKNFVQTDLPFHPLTQMMYSPQNSDYLLALSTENGLWVSKNFGEKWEEIHKAVCLAKWGPNNIIFFTTHVNGSCKADLGALELWRTSDLGKTFKTIGVKIYSFGLGGRFLFASVMADKDTTRRIHVSTDQGDTWSMAQLPSVGQEQFYSILAANEDMVFMHVDEPGDTGFGTIFTSDDRGIVYSKSLDRHLYTTTGGETDFTNVTSLRGVYITSTLSEDNSIQSMITFDQGGRWEHLRKPENSKCDATAKNKNECSLHIHASYSISQKLNVPMAPLSEPNAVGIVIAHGSVGDAISVMVPDVYISDDGGYSWAKMLEGPHYYTILDSGGIIVAIEHSNRPINVIKFSTDEGQCWQSYVFTQEPIYFTGLASEPGARSMNISIWGFTESFITRQWVSYTVDFKDILERNCEEDDYTTWLAHSTDPGDYKDGCILGYKEQFLRLRKSSVCQNGRDYVVAKQPSVCPCSLEDFLCDFGYFRPENASECVEQPELKGHELEFCLYGKEEHLTTNGYRKIPGDKCQGGMNPAREVKDLKKKCTSNFLNPTKQNSKSNSVPIILAIVGLMLVTVVAGVLIVKKYVCGGRFLVHRYSVLQQHAEADGVEALDSTSHAKSGYHDDSDEDLLE |
| 5682 | sp|P00441|SODC\_HUMAN | MATKAVCVLKGDGPVQGIINFEQKESNGPVKVWGSIKGLTEGLHGFHVHEFGDNTAGCTSAGPHFNPLSRKHGGPKDEERHVGDLGNVTADKDGVADVSIEDSVISLSGDHCIIGRTLVVHEKADDLGKGGNEESTKTGNAGSRLACGVIGIAQ |
| 5683 | sp|P9WGE9|SODC\_MYCTU | MPKPADHRNHAAVSTSVLSALFLGAGAALLSACSSPQHASTVPGTTPSIWTGSPAPSGLSGHDEESPGAQSLTSTLTAPDGTKVATAKFEFANGYATVTIATTGVGKLTPGFHGLHIHQVGKCEPNSVAPTGGAPGNFLSAGGHYHVPGHTGTPASGDLASLQVRGDGSAMLVTTTDAFTMDDLLSGAKTAIIIHAGADNFANIPPERYVQVNGTPGPDETTLTTGDAGKRVACGVIGSG |
| 5684 | sp|P36057|SRPB\_YEAST | MLSNTLIIACLLVIGTTIALIAVQKASSKTGIKQKSYQPSIIIAGPQNSGKTSLLTLLTTDSVRPTVVSQEPLSAADYDGSGVTLVDFPGHVKLRYKLSDYLKTRAKFVKGLIFMVDSTVDPKKLTTTAEFLVDILSITESSCENGIDILIACNKSELFTARPPSKIKDALESEIQKVIERRKKSLNEVERKINEEDYAENTLDVLQSTDGFKFANLEASVVAFEGSINKRKISQWREWIDEKL |
| 5685 | sp|Q86WD7|SPA9\_HUMAN | MASYLYGVLFAVGLCAPIYCVSPANAPSAYPRPSSTKSTPASQVYSLNTDFAFRLYRRLVLETPSQNIFFSPVSVSTSLAMLSLGAHSVTKTQILQGLGFNLTHTPESAIHQGFQHLVHSLTVPSKDLTLKMGSALFVKKELQLQANFLGNVKRLYEAEVFSTDFSNPSIAQARINSHVKKKTQGKVVDIIQGLDLLTAMVLVNHIFFKAKWEKPFHPEYTRKNFPFLVGEQVTVHVPMMHQKEQFAFGVDTELNCFVLQMDYKGDAVAFFVLPSKGKMRQLEQALSARTLRKWSHSLQKRWIEVFIPRFSISASYNLETILPKMGIQNVFDKNADFSGIAKRDSLQVSKATHKAVLDVSEEGTEATAATTTKFIVRSKDGPSYFTVSFNRTFLMMITNKATDGILFLGKVENPTKS |
| 5686 | sp|Q9HCB6|SPON1\_HUMAN | MRLSPAPLKLSRTPALLALALPLAAALAFSDETLDKVPKSEGYCSRILRAQGTRREGYTEFSLRVEGDPDFYKPGTSYRVTLSAAPPSYFRGFTLIALRENREGDKEEDHAGTFQIIDEEETQFMSNCPVAVTESTPRRRTRIQVFWIAPPAGTGCVILKASIVQKRIIYFQDEGSLTKKLCEQDSTFDGVTDKPILDCCACGTAKYRLTFYGNWSEKTHPKDYPRRANHWSAIIGGSHSKNYVLWEYGGYASEGVKQVAELGSPVKMEEEIRQQSDEVLTVIKAKAQWPAWQPLNVRAAPSAEFSVDRTRHLMSFLTMMGPSPDWNVGLSAEDLCTKECGWVQKVVQDLIPWDAGTDSGVTYESPNKPTIPQEKIRPLTSLDHPQSPFYDPEGGSITQVARVVIERIARKGEQCNIVPDNVDDIVADLAPEEKDEDDTPETCIYSNWSPWSACSSSTCDKGKRMRQRMLKAQLDLSVPCPDTQDFQPCMGPGCSDEDGSTCTMSEWITWSPCSISCGMGMRSRERYVKQFPEDGSVCTLPTEETEKCTVNEECSPSSCLMTEWGEWDECSATCGMGMKKRHRMIKMNPADGSMCKAETSQAEKCMMPECHTIPCLLSPWSEWSDCSVTCGKGMRTRQRMLKSLAELGDCNEDLEQVEKCMLPECPIDCELTEWSQWSECNKSCGKGHVIRTRMIQMEPQFGGAPCPETVQRKKCRIRKCLRNPSIQKLRWREARESRRSEQLKEESEGEQFPGCRMRPWTAWSECTKLCGGGIQERYMTVKKRFKSSQFTSCKDKKEIRACNVHPC |
| 5687 | sp|Q8LBZ7|SDHB1\_ARATH | MASGLIGRLVGTKPSKLATAARLIPARWTSTGAEAETKASSGGGRGSNLKTFQIYRWNPDNPGKPELQNYQIDLKDCGPMVLDALIKIKNEMDPSLTFRRSCREGICGSCAMNIDGCNGLACLTKIQDEASETTITPLPHMFVIKDLVVDMTNFYNQYKSIEPWLKRKTPASVPAKEILQSKKDRAKLDGMYECILCACCSTSCPSYWWNPESYLGPAALLHANRWISDSRDEYTKERLEAIDDEFKLYRCHTILNCARACPKGLNPGKQITHIKQLQR |
| 5688 | sp|P35711|SOX5\_HUMAN | MLTDPDLPQEFERMSSKRPASPYGEADGEVAMVTSRQKVEEEESDGLPAFHLPLHVSFPNKPHSEEFQPVSLLTQETCGHRTPTSQHNTMEVDGNKVMSSFAPHNSSTSPQKAEEGGRQSGESLSSTALGTPERRKGSLADVVDTLKQRKMEELIKNEPEETPSIEKLLSKDWKDKLLAMGSGNFGEIKGTPESLAEKERQLMGMINQLTSLREQLLAAHDEQKKLAASQIEKQRQQMELAKQQQEQIARQQQQLLQQQHKINLLQQQIQVQGQLPPLMIPVFPPDQRTLAAAAQQGFLLPPGFSYKAGCSDPYPVQLIPTTMAAAAAATPGLGPLQLQQLYAAQLAAMQVSPGGKLPGIPQGNLGAAVSPTSIHTDKSTNSPPPKSKDEVAQPLNLSAKPKTSDGKSPTSPTSPHMPALRINSGAGPLKASVPAALASPSARVSTIGYLNDHDAVTKAIQEARQMKEQLRREQQVLDGKVAVVNSLGLNNCRTEKEKTTLESLTQQLAVKQNEEGKFSHAMMDFNLSGDSDGSAGVSESRIYRESRGRGSNEPHIKRPMNAFMVWAKDERRKILQAFPDMHNSNISKILGSRWKAMTNLEKQPYYEEQARLSKQHLEKYPDYKYKPRPKRTCLVDGKKLRIGEYKAIMRNRRQEMRQYFNVGQQAQIPIATAGVVYPGAIAMAGMPSPHLPSEHSSVSSSPEPGMPVIQSTYGVKGEEPHIKEEIQAEDINGEIYDEYDEEEDDPDVDYGSDSENHIAGQAN |
| 5689 | sp|Q8VZ10|SOQ1\_ARATH | MALKLTSPPSVFSQSRRLSSSSLIPIRSKSTFTGFRSRTGVYLSKTTALQSSTKLSVAAESPAATIATDDWGKVSAVLFDMDGVLCNSEDLSRRAAVDVFTEMGVEVTVDDFVPFMGTGEAKFLGGVASVKEVKGFDPDAAKERFFEIYLDKYAKPESGIGFPGALELVTECKNKGLKVAVASSADRIKVDANLKAAGLSLTMFDAIVSADAFENLKPAPDIFLAAAKILGVPTSECVVIEDALAGVQAAQAANMRCIAVKTTLSEAILKDAGPSMIRDDIGNISINDILTGGSDSTRNSTAMLEENTVSDKTSANGFQGSRRDILRYGSLGIALSCVYFAATNWKAMQYASPKALWNALVGAKSPSFTQNQGEGRVQQFVDYIADLESKQTATTVPEFPSKLDWLNTAPLQFRRDLKGKVVILDFWTYCCINCMHVLPDLEFLEKKYKDMPFTVVGVHSAKFDNEKDLDAIRNAVLRYDISHPVVNDGDMYMWRELGINSWPTFAVVSPNGKVIAQIAGEGHRKDLDDVVAAALTYYGGKNVLDSTPLPTRLEKDNDPRLATSPLKFPGKLAIDTLNNRLFISDSNHNRIIVTDLEGNFIVQIGSSGEEGFQDGSFEDAAFNRPQGLAYNAKKNLLYVADTENHALREIDFVNERVQTLAGNGTKGSDYQGGRKGTKQLLNSPWDVCFEPVNEKVYIAMAGQHQIWEYSVLDGITRVFSGNGYERNLNGSTPQTTSFAQPSGISLGPDLKEAYIADSESSSIRALDLQTGGSRLLAGGDPYFSENLFKFGDNDGVGAEVLLQHPLGVLCANDGQIYLTDSYNHKIKKLDPVTKRVVTLAGTGKAGFKDGKVKGAQLSEPAGLAITENGRLFVADTNNSLIRYIDLNKGEDSEILTLELKGVQPPTPKAKSLKRLRKRASADTKIVKVDSVTSREGDLNLKISLPDGYHFSKEARSKFVVDVEPENAVAIDPTEGTLSPEGSTMLHFIQSSTSASVGKISCKVYYCKEDEVCLYQSVQFEVPFKVESELSASPTITFTVTPRAPDAGGLQLQGTR |
| 5690 | sp|P13801|SP2G\_BACSU | MKIYLDVIWLLNFCFDALLLLLTAFILKRHVKKRRLVGGAFIGSSIVLLMFTPFSPIVEHPAGKLAFSVVIVVVTFGFKRFRFFFQNLFSFYFATFLMGGGIIGAHSLLQSNSIVQNGVMITNQTGFGDPISWLFIVGGFPALWFFSKRRIEDIETKNIQYEERVSVQADLGSQTLHVRGLIDSGNQLYDPLTKTPVMIIYIDKLEPIFGTAETMIIRNTDPLEAIEQLDDSFRFLDKMRLIPYRGVGQQNQFLLCVKPDHVTIMTKEEMISADKCLIGISTTKLSADGEFDAIIHPKMLSGKAVKHVS |
| 5691 | sp|Q10284|SSB1\_SCHPO | MSEVYEGAIGIDLGTTYSCVAVWETANVEIIPNDQGARTTPSFVAFTETERLVGDAAKNQAAMNPRNTVFDAKRLIGRRYEDPETQKDIKHWPFKVIDNNGIPTIEVNYLGEKKQFTAQEISAMVLTKMKEISEAKLNKRVEKAVITVPAYFSDSQRAATKDAGAIAGLNVLRIINEPTAAAIAYGLDAKSDKPKNVLIFDLGGGTFDVSLLKIQGGVFEVLATAGDTHLGGEDFDNALVEHFIQEFKRKQKIDISDDPRALRRLRSACERAKRALSSVTQTTVEVDSLSNGIDFSSSITRARFEDINATTFKATIDPVAKVLKDSKVPKADVHDIVLVGGSTRIPKVQRLVSDFFDGRALNKSINPDEAVAYGAAVQAAVLTNKADSDKTQDLLLLDVVPLSLGVAMEGNVFGVVCPRNTPIPTIKKRTFTTVADNQTTVTFPVYQGERVNCAENEPLGEFQLTGIPPMPRGQAELEATFELDANGILKVTAVEKTTGRSAHIEITNSVGHLSSTKIQEMIENADKFKQQDKDFAKKLEAKSQLESYISNIETTISEPNVMMKLKRGDKSKIEAQLAECMSQLELEDTNTDALRKAELRLKRTVQKAFASLR |
| 5692 | sp|P30825|SL7A1\_HUMAN | MGCKVLLNIGQQMLRRKVVDCSREETRLSRCLNTFDLVALGVGSTLGAGVYVLAGAVARENAGPAIVISFLIAALASVLAGLCYGEFGARVPKTGSAYLYSYVTVGELWAFITGWNLILSYIIGTSSVARAWSATFDELIGRPIGEFSRTHMTLNAPGVLAENPDIFAVIIILILTGLLTLGVKESAMVNKIFTCINVLVLGFIMVSGFVKGSVKNWQLTEEDFGNTSGRLCLNNDTKEGKPGVGGFMPFGFSGVLSGAATCFYAFVGFDCIATTGEEVKNPQKAIPVGIVASLLICFIAYFGVSAALTLMMPYFCLDNNSPLPDAFKHVGWEGAKYAVAVGSLCALSASLLGSMFPMPRVIYAMAEDGLLFKFLANVNDRTKTPIIATLASGAVAAVMAFLFDLKDLVDLMSIGTLLAYSLVAACVLVLRYQPEQPNLVYQMASTSDELDPADQNELASTNDSQLGFLPEAEMFSLKTILSPKNMEPSKISGLIVNISTSLIAVLIITFCIVTVLGREALTKGALWAVFLLAGSALLCAVVTGVIWRQPESKTKLSFKVPFLPVLPILSIFVNVYLMMQLDQGTWVRFAVWMLIGFIIYFGYGLWHSEEASLDADQARTPDGNLDQCK |
| 5693 | sp|P48764|SL9A3\_HUMAN | MWGLGARGPDRGLLLALALGGLARAGGVEVEPGGAHGESGGFQVVTFEWAHVQDPYVIALWILVASLAKIGFHLSHKVTSVVPESALLIVLGLVLGGIVWAADHIASFTLTPTVFFFYLLPPIVLDAGYFMPNRLFFGNLGTILLYAVVGTVWNAATTGLSLYGVFLSGLMGDLQIGLLDFLLFGSLMAAVDPVAVLAVFEEVHVNEVLFIIVFGESLLNDAVTVVLYNVFESFVALGGDNVTGVDCVKGIVSFFVVSLGGTLVGVVFAFLLSLVTRFTKHVRIIEPGFVFIISYLSYLTSEMLSLSAILAITFCGICCQKYVKANISEQSATTVRYTMKMLASSAETIIFMFLGISAVNPFIWTWNTAFVLLTLVFISVYRAIGVVLQTWLLNRYRMVQLEPIDQVVLSYGGLRGAVAFALVVLLDGDKVKEKNLFVSTTIIVVFFTVIFQGLTIKPLVQWLKVKRSEHREPRLNEKLHGRAFDHILSAIEDISGQIGHNYLRDKWSHFDRKFLSRVLMRRSAQKSRDRILNVFHELNLKDAISYVAEGERRGSLAFIRSPSTDNVVNVDFTPRSSTVEASVSYLLRENVSAVCLDMQSLEQRRRSIRDAEDMVTHHTLQQYLYKPRQEYKHLYSRHELTPTEDEKQDREIFHRTMRKRLESFKSTKLGLNQNKKAAKLYKRERAQKRRNSSIPNGKLPMESPAQNFTIKEKDLELSDTEEPPNYDEEMSGGIEFLASVTKDTASDSPAGIDNPVFSPDEALDRSLLARLPPWLSPGETVVPSQRARTQIPYSPGTFCRLMPFRLSSKSVDSFLQADGPEERPPAALPESTHM |
| 5694 | sp|Q810C0|SLIK2\_MOUSE | MLSGVWFLSVLTVAGILQTESRKTAKDICKIRCLCEEKENVLNINCENKGFTTVSLLQPPQYRIYQLFLNGNLLTRLYPNEFVNYSNAVTLHLGNNGLQEIRPGAFSGLKTLKRLHLNNNKLEVLREDTFLGLESLEYLQADYNYISTIEAGAFSKLNKLKVLILNDNLLLSLPSNVFRFVLLTHLDLRGNRLKVMPFAGVLEHIGGIMEIQLEENPWNCTCDLLPLKAWLDTITVFVGEIVCETPFRLHGKDVTQLTRQDLCPRKSASGDSSQRSSHSDTHVQRLTPTTNPALNPTRAPKASRPPKMRNRPTPRVTVSKDRQSFGPIMVYQTKSPVALTCPSSCVCTSQSSDNGLNVNCQERKFTNISDLQPKPTSPKKLYLTGNYLQTVYKNDLLEYSSLDLLHLGNNRIAVIQEGAFTNLTSLRRLYLNGNYLEVLYPSMFDGLQSLQYLYLEYNVIKEIKPLTFDALINLQLLFLNNNLLRSLPDNIFGGTALTRLNLRNNHFSHLPVKGVLDQLPAFIQIDLQENPWDCTCDIMGLKDWTEHANSPVIINEVTCESPAKHAGEILKFLGREAICPENPNLSDGTILSMNHNTDTPRSLSVSPSSYPELHTEVPLSVLILGLLVVFILSVCFGAGLFVFVLKRRKGVPNVPRNATNLDVSSFQLQYGSYNTETNDKADGHVYNYIPPPVGQMCQNPIYMQKEGDPVAYYRNLQDFSYGNLEEKKEEPATLAYTISATELLEKQATPREPELLYQNIAERVKELPSAGLVHYNFCTLPKRQFAPSYESRRQNQDRINKTVLYGTPRKCFVGQSKPDHPLLQAKPQSEPDYLEVLEKQTAISQL |
| 5695 | sp|P53955|SLM2\_YEAST | MSYQRNSARASLDLRSQYQQLEGRMRSEHFNPAYQQQQQKGQNIPLSLPSSLAQRNPIPYPIDAVTSDPTIPAQLNVYDHDRQNSIVDAAAGTNTTHSLNSNNIPSSQNNNINNNNINNVGSFTDPSMLTLPKMSLHSHQKQYDSNQNDPRSPLAILIPTSAQPTDVLSARFSAWRNVIRAILVYLSETASIQDEIVRQQLRLSHAVQFPFFSIENQYQPVSNEDKSMQKFFLPLGSGSVQDLPTMLTKYHDNLASLASKSSKELTSEIIPRLEDLRRDLLVKIKEIKALQSDFKNSCNKELQQTKHLMKLFNESLKECKLGTPKSDPFLIKLQLEKQIKRQLVEENYLHEAFDNLQNSGAQLESVIVMEIQNGLTSYARILGKEAQVVFDSVISKLDSTILNKNTNLEWDSFILRNISNFVPPNLPMRRFKEISYSNQNDPFTFEVKSGFLEKRSKFLKSYSRGFYVLTPSFLHEFKTPDKHKFSTPLMSIPLVECTVTEHSKKTKSNSEQGKNKFILRTNSNGLIHRGHNWVFKVDSYDDMIEWFGNIKALSSLPNYDDKCKYVSKVAKLSKEKAKSNENTTESVTPQVTNEQHTRYDDVSSSNFPLNSIPKLDNLTITNTTSSIPETNDSQIQNRVPEFYIENVDSPRKSNQL |
| 5696 | sp|P07895|SODM\_RAT | MLCRAACSAGRRLGPAASTAGSRHKHSLPDLPYDYGALEPHINAQIMQLHHSKHHATYVNNLNVTEEKYHEALAKGDVTTQVALQPALKFNGGGHINHSIFWTNLSPKGGGEPKGELLEAIKRDFGSFEKFKEKLTAVSVGVQGSGWGWLGFNKEQGRLQIAACSNQDPLQGTTGLIPLLGIDVWEHAYYLQYKNVRPDYLKAIWNVINWENVSQRYIVCKK |
| 5697 | sp|Q2FV99|SRTA\_STAA8 | MKKWTNRLMTIAGVVLILVAAYLFAKPHIDNYLHDKDKDEKIEQYDKNVKEQASKDKKQQAKPQIPKDKSKVAGYIEIPDADIKEPVYPGPATPEQLNRGVSFAEENESLDDQNISIAGHTFIDRPNYQFTNLKAAKKGSMVYFKVGNETRKYKMTSIRDVKPTDVGVLDEQKGKDKQLTLITCDDYNEKTGVWEKRKIFVATEVK |
| 5698 | sp|P54921|SNAA\_RAT | MDTSGKQAEAMALLAEAERKVKNSQSFFSGLFGGSSKIEEACEIYARAANMFKMAKNWSAAGNAFCQAAQLHLQLQSKHDAATCFVDAGNAFKKADPQEAINCLMRAIEIYTDMGRFTIAAKHHISIAEIYETELVDVEKAIAHYEQSADYYKGEESNSSANKCLLKVAGYAAQLEQYQKAIDIYEQVGTSAMDSPLLKYSAKDYFFKAALCHFCIDMLNAKLAVQKYEELFPAFSDSRECKLMKKLLEAHEEQNVDSYTESVKEYDSISRLDQWLTTMLLRIKKTIQGDEEDLR |
| 5699 | sp|P91351|SLX1\_CAEEL | METFILSSDSDDDSGPPPSKRRTIEGIPRSFSGDKKIRFSFGASNMSQDTTQEIIPEDTDTVPLTIPSTPALSGKFDSKTPKSVRRRSVSMSCFTPIVETINQPPTNQACSSFLQKEYNFHDLSSDEEGGDGGAGCSKDEDKIIEDNLNLRALLSPEKKKRKEKIEEVQNEFYGVYCLISRSDRPCYKNRCYIGYTVDPNRRIMQHNGGRDKGGAKKTDSRGPWDMVCVVHGFPNHVAALHFEWAWQNPLVSKSLKEKQLRKERKETPFAFQLRIACELMNSSAFCRFALTFRWLITTEELPFPTSCVPPDHTKLRFGKVKKEMSLVPSKREDYLEMGECRICGKDIEKLWSLVRCISATCPSHFHSKCLSENGLKLKNEHVDHVYPLKANCPTCGQFYLWGDIIREQRRIIKISTKCAEEFQNMVVRKELPHREISPISSKK |
| 5700 | sp|Q9FMX0|SODF3\_ARATH | MSSCVVTTSCFYTISDSSIRLKSPKLLNLSNQQRRRSLRSRGGLKVEAYYGLKTPPYPLDALEPYMSRRTLEVHWGKHHRGYVDNLNKQLGKDDRLYGYTMEELIKATYNNGNPLPEFNNAAQVYNHDFFWESMQPGGGDTPQKGVLEQIDKDFGSFTNFREKFTNAALTQFGSGWVWLVLKREERRLEVVKTSNAINPLVWDDIPIICVDVWEHSYYLDYKNDRAKYINTFLNHLVSWNAAMSRMARAEAFVNLGEPNIPIA |
| 5701 | sp|P63272|SPT4H\_HUMAN | MALETVPKDLRHLRACLLCSLVKTIDQFEYDGCDNCDAYLQMKGNREMVYDCTSSSFDGIIAMMSPEDSWVSKWQRVSNFKPGVYAVSVTGRLPQGIVRELKSRGVAYKSRDTAIKT |
| 5702 | sp|Q86Y82|STX12\_HUMAN | MSYGPLDMYRNPGPSGPQLRDFSSIIQTCSGNIQRISQATAQIKNLMSQLGTKQDSSKLQENLQQLQHSTNQLAKETNELLKELGSLPLPLSTSEQRQQRLQKERLMNDFSAALNNFQAVQRRVSEKEKESIARARAGSRLSAEERQREEQLVSFDSHEEWNQMQSQEDEVAITEQDLELIKERETAIRQLEADILDVNQIFKDLAMMIHDQGDLIDSIEANVESSEVHVERATEQLQRAAYYQKKSRKKMCILVLVLSVIILILGLIIWLVYKTK |
| 5703 | sp|O75093|SLIT1\_HUMAN | MALTPGWGSSAGPVRPELWLLLWAAAWRLGASACPALCTCTGTTVDCHGTGLQAIPKNIPRNTERLELNGNNITRIHKNDFAGLKQLRVLQLMENQIGAVERGAFDDMKELERLRLNRNQLHMLPELLFQNNQALSRLDLSENAIQAIPRKAFRGATDLKNLQLDKNQISCIEEGAFRALRGLEVLTLNNNNITTIPVSSFNHMPKLRTFRLHSNHLFCDCHLAWLSQWLRQRPTIGLFTQCSGPASLRGLNVAEVQKSEFSCSGQGEAGRVPTCTLSSGSCPAMCTCSNGIVDCRGKGLTAIPANLPETMTEIRLELNGIKSIPPGAFSPYRKLRRIDLSNNQIAEIAPDAFQGLRSLNSLVLYGNKITDLPRGVFGGLYTLQLLLLNANKINCIRPDAFQDLQNLSLLSLYDNKIQSLAKGTFTSLRAIQTLHLAQNPFICDCNLKWLADFLRTNPIETSGARCASPRRLANKRIGQIKSKKFRCSAKEQYFIPGTEDYQLNSECNSDVVCPHKCRCEANVVECSSLKLTKIPERIPQSTAELRLNNNEISILEATGMFKKLTHLKKINLSNNKVSEIEDGAFEGAASVSELHLTANQLESIRSGMFRGLDGLRTLMLRNNRISCIHNDSFTGLRNVRLLSLYDNQITTVSPGAFDTLQSLSTLNLLANPFNCNCQLAWLGGWLRKRKIVTGNPRCQNPDFLRQIPLQDVAFPDFRCEEGQEEGGCLPRPQCPQECACLDTVVRCSNKHLRALPKGIPKNVTELYLDGNQFTLVPGQLSTFKYLQLVDLSNNKISSLSNSSFTNMSQLTTLILSYNALQCIPPLAFQGLRSLRLLSLHGNDISTLQEGIFADVTSLSHLAIGANPLYCDCHLRWLSSWVKTGYKEPGIARCAGPQDMEGKLLLTTPAKKFECQGPPTLAVQAKCDLCLSSPCQNQGTCHNDPLEVYRCACPSGYKGRDCEVSLDSCSSGPCENGGTCHAQEGEDAPFTCSCPTGFEGPTCGVNTDDCVDHACANGGVCVDGVGNYTCQCPLQYEGKACEQLVDLCSPDLNPCQHEAQCVGTPDGPRCECMPGYAGDNCSENQDDCRDHRCQNGAQCMDEVNSYSCLCAEGYSGQLCEIPPHLPAPKSPCEGTECQNGANCVDQGNRPVCQCLPGFGGPECEKLLSVNFVDRDTYLQFTDLQNWPRANITLQVSTAEDNGILLYNGDNDHIAVELYQGHVRVSYDPGSYPSSAIYSAETINDGQFHTVELVAFDQMVNLSIDGGSPMTMDNFGKHYTLNSEAPLYVGGMPVDVNSAAFRLWQILNGTGFHGCIRNLYINNELQDFTKTQMKPGVVPGCEPCRKLYCLHGICQPNATPGPMCHCEAGWVGLHCDQPADGPCHGHKCVHGQCVPLDALSYSCQCQDGYSGALCNQAGALAEPCRGLQCLHGHCQASGTKGAHCVCDPGFSGELCEQESECRGDPVRDFHQVQRGYAICQTTRPLSWVECRGSCPGQGCCQGLRLKRRKFTFECSDGTSFAEEVEKPTKCGCALCA |
| 5704 | sp|O55131|SEPT7\_MOUSE | MSVSARSAAAEERSVNCGTMAQPKNLEGYVGFANLPNQVYRKSVKRGFEFTLMVVGESGLGKSTLINSLFLTDLYSPEYPGPSHRIKKTVQVEQSKVLIKEGGVQLLLTIVDTPGFGDAVDNSNCWQPVIDYIDSKFEDYLNAESRVNRRQMPDNRVQCCLYFIAPSGHGLKPLDIEFMKRLHEKVNIIPLIAKADTLTPEECQQFKKQIMKEIQEHKIKIYEFPETDDEEENKLVKKIKDRLPLAVVGSNTIIEVNGKRVRGRQYPWGVAEVENGEHCDFTILRNMLIRTHMQDLKDVTNNVHYENYRSRKLAAVTYNGVDNNKNKGQLTKSPLAQMEEERREHVAKMKKMEMEMEQVFEMKVKEKVQKLKDSEAELQRRHEQMKKNLEAQHKELEEKRRQFEEEKANWEAQQRILEQQNSSRTLEKNKKKGKIF |
| 5705 | sp|F4IPY2|SYCM\_ARATH | MASSVLNLFKSCRPFTPIRFSSLPKSQFRIQFPLRPGKETQLRRCFTTLSSLTDGGAPISGGKELWLHNTMSRKKELFKPKVEGKVGMYVCGVTAYDLSHIGHARVYVTFDVLLRYLKHLGYEVSYVRNFTDVDDKIIARAKELEEDPISLSRRFCEEFNRDMEQLQCLDPSVQPRVSDHIPQIIDLIKQILDNGYAYKVDGDIYFSVDKFPTYGKLSGRKLEDNRAGERVAVDTRKKHPADFALWKAAKEGEPFWESPWGRGRPGWHIECSAMSAAYLGYSFDIHGGGMDLVFPHHENEIAQSCAACDSSNISYWIHNGFVTVDSEKMSKSLGNFFTIRQVIDLYHPLALRLFLMGTHYRSPINYSDFLLESASERIFYIYQTLHDCESALGEKDSTFENGSVPSDTLTSINTFRTEFVASMSDDLLTPVTLAAMSEPLKTINDLIHTRKGKKQARREESLKALETTIRDVLTILGLMPTSYSEVLEQLKEKALKRAGLKEEDVLQRVQERTDARKNKEYERSDAIRKDLAKVGIALMDSPEGTTWRPAIPLALQEPVTTTP |
| 5706 | sp|Q8TC36|SUN5\_HUMAN | MPRSSRSPGDPGALLEDVAHNPRPRRIAQRGRNTSRMAEDTSPNMNDNILLPVRNNDQALGLTQCMLGCVSWFTCFACSLRTQAQQVLFNTCRCKLLCQKLMEKTGILLLCAFGFWMFSIHLPSKMKVWQDDSINGPLQSLRLYQEKVRHHSGEIQDLRGSMNQLIAKLQEMEAMSDEQKMAQKIMKMIHGDYIEKPDFALKSIGASIDFEHTSVTYNHEKAHSYWNWIQLWNYAQPPDVILEPNVTPGNCWAFEGDRGQVTIQLAQKVYLSNLTLQHIPKTISLSGSLDTAPKDFVIYGMEGSPKEEVFLGAFQFQPENIIQMFPLQNQPARAFSAVKVKISSNWGNPGFTCLYRVRVHGSVAPPREQPHQNPYPKRD |
| 5707 | sp|Q9Y2K9|STB5L\_HUMAN | MKKFNFRKVLDGLTASSPGSGSSSGSNSGGGAGSGSVHPAGTAGVLREEIQETLTSEYFQICKTVRHGFPHQPTALAFDPVQKILAIGTRTGAIRILGRPGVDCYCQHESGAAVLQLQFLINEGALVSASSDDTLHLWNLRQKRPAILHSLKFNRERITYCHLPFQSKWLYVGTERGNTHIVNIESFILSGYVIMWNKAIELSTKTHPGPVVHLSDSPRDEGKLLIGYENGTVVFWDLKSKRAELRVYYDEAIHSIDWHHEGKQFMCSHSDGSLTLWNLKSPSRPFQTTIPHGKSQREGRKSESCKPILKVEYKTCKNSEPFIIFSGGLSYDKACRRPSLTIMHGKAITVLEMDHPIVEFLTLCETPYPNEFQEPYAVVVLLEKDLIVVDLTQSNFPIFENPYPMDIHESPVTCTAYFADCPPDLILVLYSIGVKHKKQGYSNKEWPISGGAWNLGAQTYPEIIITGHADGSIKFWDASAITLQMLYKLKTSKVFEKQKVGEGKQTCEIVEEDPFAIQMIYWCPESRIFCVSGVSAYVIIYKFSRHEITTEIVSLEVRLQYDVEDIITPEPETSPPFPDLSAQLPSSRSLSGSTNTVASEGVTKDSIPCLNVKTRPVRMPPGYQAELVIQLVWVDGEPPQQITSLAVSSAYGIVAFGNCNGLAVVDFIQKTVLLSMGTIDLYRSSDLYQRQPRSPRKNKQFIADNFCMRGLSNFYPDLTKRIRTSYQSLTELNDSPVPLELERCKSPTSDHVNGHCTSPTSQSCSSGKRLSSADVSKVNRWGPGRPPFRKAQSAACMEISLPVTTEENRENSYNRSRSSSISSIDKDSKEAITALYFMDSFARKNDSTISPCLFVGTSLGMVLIISLNLPLADEQRFTEPVMVLPSGTFLSLKGAVLTFSCMDRMGGLMQPPYEVWRDPNNIDENEKSWRRKVVMNSSSASQEIGDHQYTIICSEKQAKVFSLPSQTCLYVHNITETSFILQANVVVMCSSACLACFCANGHIMIMSLPSLRPMLDVNYLPLTDMRIARTFCFTNEGQALYLVSPTEIQRLTYSQEMCDNLQDMLGDLFTPIETPEAQNRGFLKGLFGGSGQTFDREELFGEASAGKASRSLAQHIPGPGSIEGMKGAAGGVMGELTRARIALDERGQRLGELEEKTAGMMTSAEAFSKHAHELMLKYKDKKWYQF |
| 5708 | sp|P42225|STAT1\_MOUSE | MSQWFELQQLDSKFLEQVHQLYDDSFPMEIRQYLAQWLEKQDWEHAAYDVSFATIRFHDLLSQLDDQYSRFSLENNFLLQHNIRKSKRNLQDNFQEDPVQMSMIIYNCLKEERKILENAQRFNQAQEGNIQNTVMLDKQKELDSKVRNVKDQVMCIEQEIKTLEELQDEYDFKCKTSQNREGEANGVAKSDQKQEQLLLHKMFLMLDNKRKEIIHKIRELLNSIELTQNTLINDELVEWKRRQQSACIGGPPNACLDQLQTWFTIVAETLQQIRQQLKKLEELEQKFTYEPDPITKNKQVLSDRTFLLFQQLIQSSFVVERQPCMPTHPQRPLVLKTGVQFTVKSRLLVKLQESNLLTKVKCHFDKDVNEKNTVKGFRKFNILGTHTKVMNMEESTNGSLAAELRHLQLKEQKNAGNRTNEGPLIVTEELHSLSFETQLCQPGLVIDLETTSLPVVVISNVSQLPSGWASILWYNMLVTEPRNLSFFLNPPCAWWSQLSEVLSWQFSSVTKRGLNADQLSMLGEKLLGPNAGPDGLIPWTRFCKENINDKNFSFWPWIDTILELIKNDLLCLWNDGCIMGFISKERERALLKDQQPGTFLLRFSESSREGAITFTWVERSQNGGEPDFHAVEPYTKKELSAVTFPDIIRNYKVMAAENIPENPLKYLYPNIDKDHAFGKYYSRPKEAPEPMELDDPKRTGYIKTELISVSEVHPSRLQTTDNLLPMSPEEFDEMSRIVGPEFDSMMSTV |
| 5709 | sp|P75792|SUPH\_ECOLI | MSVKVIVTDMDGTFLNDAKTYNQPRFMAQYQELKKRGIKFVVASGNQYYQLISFFPELKDEISFVAENGALVYEHGKQLFHGELTRHESRIVIGELLKDKQLNFVACGLQSAYVSENAPEAFVALMAKHYHRLKPVKDYQEIDDVLFKFSLNLPDEQIPLVIDKLHVALDGIMKPVTSGFGFIDLIIPGLHKANGISRLLKRWDLSPQNVVAIGDSGNDAEMLKMARYSFAMGNAAENIKQIARYATDDNNHEGALNVIQAVLDNTSPFNS |
| 5710 | sp|O94768|ST17B\_HUMAN | MSRRRFDCRSISGLLTTTPQIPIKMENFNNFYILTSKELGRGKFAVVRQCISKSTGQEYAAKFLKKRRRGQDCRAEILHEIAVLELAKSCPRVINLHEVYENTSEIILILEYAAGGEIFSLCLPELAEMVSENDVIRLIKQILEGVYYLHQNNIVHLDLKPQNILLSSIYPLGDIKIVDFGMSRKIGHACELREIMGTPEYLAPEILNYDPITTATDMWNIGIIAYMLLTHTSPFVGEDNQETYLNISQVNVDYSEETFSSVSQLATDFIQSLLVKNPEKRPTAEICLSHSWLQQWDFENLFHPEETSSSSQTQDHSVRSSEDKTSKSSCNGTCGDREDKENIPEDSSMVSKRFRFDDSLPNPHELVSDLLC |
| 5711 | sp|Q6EEV6|SUMO4\_HUMAN | MANEKPTEEVKTENNNHINLKVAGQDGSVVQFKIKRQTPLSKLMKAYCEPRGLSMKQIRFRFGGQPISGTDKPAQLEMEDEDTIDVFQQPTGGVY |
| 5712 | sp|P55853|SUMO\_CAEEL | MADDAAQAGDNAEYIKIKVVGQDSNEVHFRVKYGTSMAKLKKSYADRTGVAVNSLRFLFDGRRINDDDTPKTLEMEDDDVIEVYQEQLGGF |
| 5713 | sp|Q8BZ71|STAC3\_MOUSE | MTEKEVVESPQPPFPGETPQSGLQRLKQLFKKGSPETAEMEPPPEPQANGEAVGAGGGPIYYIYEEEEEEEEEEEPPPEPPKLVNDKPHKFKDHFFKKPKFCDVCARMIVLNNKFGLRCKNCKTNIHEHCQSYVEMQRCFGKIPPGFRRAYSSPLYSDQQYAVSAANRNDPVFETLRVGVIMANKERKKGQADKKNPLAAMMEEEPESARPEEGKSQDGNNAEKDKKAEKKTPDDKNKQPGFQQSHYFVALYRFKALEKDDLDFPPGEKITVIDDSNEEWWRGKIGEKVGFFPPNFIIRVRAGERVHRVTRSFVGNREIGQITLKKDQIVVQKGDEAGGYVKVYTGRKVGLFPTDFLEEI |
| 5714 | sp|P25582|SPB1\_YEAST | MGKTQKKNSKGRLDRYYYLAKEKGYRARSSFKIIQINEKYGHFLEKSKVVIDLCAAPGSWCQVASKLCPVNSLIIGVDIVPMKPMPNVITFQSDITTEDCRSKLRGYMKTWKADTVLHDGAPNVGLGWVQDAFTQSQLTLQALKLAVENLVVNGTFVTKIFRSKDYNKLIWVFQQLFEKVEATKPPASRNVSAEIFVVCKGFKAPKRLDPRLLDPKEVFEELPDGQQNMESKIYNPEKKVRKRQGYEEGDNLLYHETSILDFVRTEDPISMLGEMNKFTIDENDHEWKILKKLKQTTDEFRSCIEDLKVLGKKDFKMILRWRKIAREILGIEVKDDAKTEIEVVPLTEEEQIEKDLQGLQEKQRLNVKRERRRKNEMKQKELQRMQMNMITPTDIGIEAASLGKESLFNLKTAEKTGILNDLAKGKKRMIFTDDELAKDNDIYIDENIMIKDKDSAADADDLESELNAMYSDYKTRRSERDAKFRAKQARGGDNEEEWTGFNEGSLEKKEEEGKDYIEDNDDEGVEGDSDDDEAITNLISKLKGQEGDHKLSSKARMIFNDPIFNNVEPDLPVNTVNDGIMSSESVGDISKLNKKRKHEEMHQKQDEADSSDESSSDDSDFEIVANDNASEEFDSDYDSEEEKNQTKKEKHSRDIDIATVEAMTLAHQLALGQKNKHDLVDEGFNRYTFRDTENLPDWFLEDEKEHSKINKPITKEAAMAIKEKIKAMNARPIKKVAEAKARKRMRAVARLEKIKKKAGLINDDSDKTEKDKAEEISRLMRKVTKKPKTKPKVTLVVASGRNKGLAGRPKGVKGKYKMVDGVMKNEQRALRRIAKKHHKKK |
| 5715 | sp|Q1JPD6|STPAP\_BOVIN | MAAVDSDIEPLPRGGFRCCLCHITTANQPSLDAHLGGRKHRHLVELRATRKAQGLRSVFVSGFPRDVDSTQLSEYFQAFGPVASVVMDKDKGVFAIVEMGDLGAREAVLSQPQHSLGGRRLRVRPREQIEFQSPASRSPKRVAPDSHQLIKALAEAPDVEAQMVKLVGLRELSEAERQLRSLVVALMQEVFAEFFPGCVVHPFGSSINSFDVHGCDLDLFLDLGDLDEPQPAPKAPESPSLDSALASPLDPQALACTPASPPDSQPPASPQDSEALDFEAPSSSLAPRTPDSALASETLASPRSLPPASPLQEDQGDGDQGKAVELAEALKGEKAEGGAMLELVGSILRGCVPGVYRVQTVPSARCPVVKFCHRPSGLHGDISLSNRLALHNSRFLSLCSELDGRVRPLVYTLRCWAQGRGLSGSGPLLNNYALTLLVIYFLQTRDPPVLPTVSQLTQKAGEQVEVDGWDCSFPRDASRLEPSTNKEPLSSLLAQFFSCVSCWDLRGSLLSLREGQALSVAGGLPSNLSEGLRLGPMNLQDPFDLSHNVAANVTSRVAGRLQNCCRAAANYCRSLQYQRRSSRGRDWGLLPLLQPSSPSSILSATPIPLPPASFTQLTAVLAQVLREALGCHIEQGTKRLRSEGGGPGEPPQGGTSKRAKLDGQKKSCEEGPEEQQGCAGEHGEDGVEEMVIEVGESVQDWVMRSPGQLGELPLMTGKHLATREEGQSGTAALAKQGPRGPEAACEGSQAEAEKRVSLTVSWRCALWHRVWQGRRRARRRLQQQIKEGGGSGAGSGAEWLATEAQVTRELRGLSSTEQRPEAEPLLTFVASTSQADQSLTVTPLQDSQGLFPDLHHFLQVFLPQALRNLLK |
| 5716 | sp|Q86WV6|STING\_HUMAN | MPHSSLHPSIPCPRGHGAQKAALVLLSACLVTLWGLGEPPEHTLRYLVLHLASLQLGLLLNGVCSLAEELRHIHSRYRGSYWRTVRACLGCPLRRGALLLLSIYFYYSLPNAVGPPFTWMLALLGLSQALNILLGLKGLAPAEISAVCEKGNFNVAHGLAWSYYIGYLRLILPELQARIRTYNQHYNNLLRGAVSQRLYILLPLDCGVPDNLSMADPNIRFLDKLPQQTGDHAGIKDRVYSNSIYELLENGQRAGTCVLEYATPLQTLFAMSQYSQAGFSREDRLEQAKLFCRTLEDILADAPESQNNCRLIAYQEPADDSSFSLSQEVLRHLRQEEKEEVTVGSLKTSAVPSTSTMSQEPELLISGMEKPLPLRTDFS |
| 5717 | sp|Q96PV0|SYGP1\_HUMAN | MSRSRASIHRGSIPAMSYAPFRDVRGPSMHRTQYVHSPYDRPGWNPRFCIISGNQLLMLDEDEIHPLLIRDRRSESSRNKLLRRTVSVPVEGRPHGEHEYHLGRSRRKSVPGGKQYSMEGAPAAPFRPSQGFLSRRLKSSIKRTKSQPKLDRTSSFRQILPRFRSADHDRARLMQSFKESHSHESLLSPSSAAEALELNLDEDSIIKPVHSSILGQEFCFEVTTSSGTKCFACRSAAERDKWIENLQRAVKPNKDNSRRVDNVLKLWIIEARELPPKKRYYCELCLDDMLYARTTSKPRSASGDTVFWGEHFEFNNLPAVRALRLHLYRDSDKKRKKDKAGYVGLVTVPVATLAGRHFTEQWYPVTLPTGSGGSGGMGSGGGGGSGGGSGGKGKGGCPAVRLKARYQTMSILPMELYKEFAEYVTNHYRMLCAVLEPALNVKGKEEVASALVHILQSTGKAKDFLSDMAMSEVDRFMEREHLIFRENTLATKAIEEYMRLIGQKYLKDAIGEFIRALYESEENCEVDPIKCTASSLAEHQANLRMCCELALCKVVNSHCVFPRELKEVFASWRLRCAERGREDIADRLISASLFLRFLCPAIMSPSLFGLMQEYPDEQTSRTLTLIAKVIQNLANFSKFTSKEDFLGFMNEFLELEWGSMQQFLYEISNLDTLTNSSSFEGYIDLGRELSTLHALLWEVLPQLSKEALLKLGPLPRLLNDISTALRNPNIQRQPSRQSERPRPQPVVLRGPSAEMQGYMMRDLNSSIDLQSFMARGLNSSMDMARLPSPTKEKPPPPPPGGGKDLFYVSRPPLARSSPAYCTSSSDITEPEQKMLSVNKSVSMLDLQGDGPGGRLNSSSVSNLAAVGDLLHSSQASLTAALGLRPAPAGRLSQGSGSSITAAGMRLSQMGVTTDGVPAQQLRIPLSFQNPLFHMAADGPGPPGGHGGGGGHGPPSSHHHHHHHHHHRGGEPPGDTFAPFHGYSKSEDLSSGVPKPPAASILHSHSYSDEFGPSGTDFTRRQLSLQDNLQHMLSPPQITIGPQRPAPSGPGGGSGGGSGGGGGGQPPPLQRGKSQQLTVSAAQKPRPSSGNLLQSPEPSYGPARPRQQSLSKEGSIGGSGGSGGGGGGGLKPSITKQHSQTPSTLNPTMPASERTVAWVSNMPHLSADIESAHIEREEYKLKEYSKSMDESRLDRVKEYEEEIHSLKERLHMSNRKLEEYERRLLSQEEQTSKILMQYQARLEQSEKRLRQQQAEKDSQIKSIIGRLMLVEEELRRDHPAMAEPLPEPKKRLLDAQERQLPPLGPTNPRVTLAPPWNGLAPPAPPPPPRLQITENGEFRNTADH |
| 5718 | sp|D4A702|SYNP2\_RAT | MGTGDFICISMTGGAPWGFRLQGGKEEKQPLQVAKIRSQSKASDSGLCVGDEVVSINGNPCADLTYPEVIKLMESITDSLHLLIKRPTSGTSEALDSETENTNHQHLPHGGPMESTTLQIQHAAKTQGKDFLLASVQTSAPRTEDQGNAWGYAECTTEDQVSQMPGSQEGHLVEEVILRKKPEAGQPGHVVELQLSLSKERQRCTSDPIVTLLGNEKFKSPDPDWGTQHGRTVHINSIPAPEKADTSLTSGTTVQTSSGRELTVIQGRDPGGTGLPQVEVILDCSDRLKAEECRLQAGRGCVASPVEGGRSEAPPSLVSFAVSSEGTEQGEDQRSGKDQGRPHKHRARHARLRRSESLSEKQVKEAKSKCKSIALLLTDAPNPNSKGVLMFKKRRRRARKYTLVSYGTGELEREEEEEDQEAGDKDEISDLAFLGTSESEVDEELLSDVDDNTQVVNFDWDSGLVDIEKRLNRGDKMEMLPDTTGKGALMFAKRRERMEQFTAQNEEEKTGGLAGGGSDALQTDGLRTMTSYQRKEESVRMQSSVSESSFQMGRSLGSVPQQNGFSGVSETAGPQRMIPMNRTAKPFLGSVNQTAAPFSPTQSVTSPIPDFPAPPPYSAVSPPPEAFSRGISSPVAGPAQPPPWPQPAPWSQPAFYDSSEQIASRDERIAVPAKRTGILQEAKRRGTTKPMFTFKETKVSPNPELLSLLQNAEGKRGTGAGGDSGPEEDYLSLGAEACNFMQSSAKQKTPPPVAPKPAVKTSSSSQPVAPVSPVWSPGVAPAQGPAFSTTNPPNPPQVTAVSSIKIAQPTCPPARPASALNLAGPFKGPQAAVVSHNYTPKPSAPTPLVNAAPAGAGGPSNELPGMSGKGAQLFAKRQSRMEKYVVDSDTVQAHTVRAQSPTPSLPASWKYSSNVRAPPPVAYNPIHSPSYPLAAIKSQPPGAQASKTSKKKGKKPLNTLDVMKHQPYQLNASLFTFQPPDSKDGLPQKSTVKVSSVAPAMKQALPPRQADIGSPTNAKASSVYSVPAYTSQPNFFAEATSPVSASPVPVSVPTSPKQETTSTSYFVAPRPKFSAKKSGVTVQENWRSLSLPGRAAPPIMSAPPWLCQPAYSYSSKPTLEQEKANKRPTPWEAAAKSPLGLVDEAFRPRNIEESIVANVVSAARRKVFAGSQEDWKERLSFVPQTQKTSMSFSERREYNVPSPVNSHVSSHSLYSSQLPYVCYRKESRNDLKAMSMDTRSEYCLPLGGYDYNPHPRGWRHQP |
| 5719 | sp|Q2AB83|T2R40\_CHICK | MSSLFSSFCLVIAIFESVVGLLGNGTIVAVSSTSCIRSKILSSYDVIVIFLSLSRFFLQLWMILDFLLIFFCQPSYYEENLFVTFKTVFIFLNSYSFWFAAWLSVFYCVKVASFTQSFLSWLKQRIASLIPWMLITSSLFSFATSLPFFWDSYNAHSNFTTPLTMTNSSKRITTRKTNLIFLILLCNVGIALPSIMLVFSSILLIRSLWRHTRQMQNNATGFRDPSLEALIGAIKTVFSFLLLYITNFIALILILSDTFVPLSTEEAICVVVVAACPAGQSMVLIWSNPRFRELLSSILHYVNSCVRARCS |
| 5720 | sp|Q8BG87|TET3\_MOUSE | MSQFQVPLAVQPDLSGLYDFPQGQVMVGGFQGPGLPMAGSETQLRGGGDGRKKRKRCGTCDPCRRLENCGSCTSCTNRRTHQICKLRKCEVLKKKAGLLKEVEINAREGTGPWAQGATVKTGSELSPVDGPVPGQMDSGPVYHGDSRQLSTSGAPVNGAREPAGPGLLGAAGPWRVDQKPDWEAASGPTHAARLEDAHDLVAFSAVAEAVSSYGALSTRLYETFNREMSREAGSNGRGPRPESCSEGSEDLDTLQTALALARHGMKPPNCTCDGPECPDFLEWLEGKIKSMAMEGGQGRPRLPGALPPSEAGLPAPSTRPPLLSSEVPQVPPLEGLPLSQSALSIAKEKNISLQTAIAIEALTQLSSALPQPSHSTSQASCPLPEALSPSAPFRSPQSYLRAPSWPVVPPEEHPSFAPDSPAFPPATPRPEFSEAWGTDTPPATPRNSWPVPRPSPDPMAELEQLLGSASDYIQSVFKRPEALPTKPKVKVEAPSSSPAPVPSPISQREAPLLSSEPDTHQKAQTALQQHLHHKRNLFLEQAQDASFPTSTEPQAPGWWAPPGSPAPRPPDKPPKEKKKKPPTPAGGPVGAEKTTPGIKTSVRKPIQIKKSRSRDMQPLFLPVRQIVLEGLKPQASEGQAPLPAQLSVPPPASQGAASQSCATPLTPEPSLALFAPSPSGDSLLPPTQEMRSPSPMVALQSGSTGGPLPPADDKLEELIRQFEAEFGDSFGLPGPPSVPIQEPENQSTCLPAPESPFATRSPKKIKIESSGAVTVLSTTCFHSEEGGQEATPTKAENPLTPTLSGFLESPLKYLDTPTKSLLDTPAKKAQSEFPTCDCVEQIVEKDEGPYYTHLGSGPTVASIRELMEDRYGEKGKAIRIEKVIYTGKEGKSSRGCPIAKWVIRRHTLEEKLLCLVRHRAGHHCQNAVIVILILAWEGIPRSLGDTLYQELTDTLRKYGNPTSRRCGLNDDRTCACQGKDPNTCGASFSFGCSWSMYFNGCKYARSKTPRKFRLTGDNPKEEEVLRNSFQDLATEVAPLYKRLAPQAYQNQVTNEDVAIDCRLGLKEGRPFSGVTACMDFCAHAHKDQHNLYNGCTVVCTLTKEDNRCVGQIPEDEQLHVLPLYKMASTDEFGSEENQNAKVSSGAIQVLTAFPREVRRLPEPAKSCRQRQLEARKAAAEKKKLQKEKLSTPEKIKQEALELAGVTTDPGLSLKGGLSQQSLKPSLKVEPQNHFSSFKYSGNAVVESYSVLGSCRPSDPYSMSSVYSYHSRYAQPGLASVNGFHSKYTLPSFGYYGFPSSNPVFPSQFLGPSAWGHGGSGGSFEKKPDLHALHNSLNPAYGGAEFAELPGQAVATDNHHPIPHHQQPAYPGPKEYLLPKVPQLHPASRDPSPFAQSSSCYNRSIKQEPIDPLTQAESIPRDSAKMSRTPLPEASQNGGPSHLWGQYSGGPSMSPKRTNSVGGNWGVFPPGESPTIVPDKLNSFGASCLTPSHFPESQWGLFTGEGQQSAPHAGARLRGKPWSPCKFGNGTSALTGPSLTEKPWGMGTGDFNPALKGGPGFQDKLWNPVKVEEGRIPTPGANPLDKAWQAFGMPLSSNEKLFGALKSEEKLWDPFSLEEGTAEEPPSKGVVKEEKSGPTVEEDEEELWSDSEHNFLDENIGGVAVAPAHCSILIECARRELHATTPLKKPNRCHPTRISLVFYQHKNLNQPNHGLALWEAKMKQLAERARQRQEEAARLGLGQQEAKLYGKKRKWGGAMVAEPQHKEKKGAIPTRQALAMPTDSAVTVSSYAYTKVTGPYSRWI |
| 5721 | sp|P10636|TAU\_HUMAN | MAEPRQEFEVMEDHAGTYGLGDRKDQGGYTMHQDQEGDTDAGLKESPLQTPTEDGSEEPGSETSDAKSTPTAEDVTAPLVDEGAPGKQAAAQPHTEIPEGTTAEEAGIGDTPSLEDEAAGHVTQEPESGKVVQEGFLREPGPPGLSHQLMSGMPGAPLLPEGPREATRQPSGTGPEDTEGGRHAPELLKHQLLGDLHQEGPPLKGAGGKERPGSKEEVDEDRDVDESSPQDSPPSKASPAQDGRPPQTAAREATSIPGFPAEGAIPLPVDFLSKVSTEIPASEPDGPSVGRAKGQDAPLEFTFHVEITPNVQKEQAHSEEHLGRAAFPGAPGEGPEARGPSLGEDTKEADLPEPSEKQPAAAPRGKPVSRVPQLKARMVSKSKDGTGSDDKKAKTSTRSSAKTLKNRPCLSPKHPTPGSSDPLIQPSSPAVCPEPPSSPKYVSSVTSRTGSSGAKEMKLKGADGKTKIATPRGAAPPGQKGQANATRIPAKTPPAPKTPPSSGEPPKSGDRSGYSSPGSPGTPGSRSRTPSLPTPPTREPKKVAVVRTPPKSPSSAKSRLQTAPVPMPDLKNVKSKIGSTENLKHQPGGGKVQIINKKLDLSNVQSKCGSKDNIKHVPGGGSVQIVYKPVDLSKVTSKCGSLGNIHHKPGGGQVEVKSEKLDFKDRVQSKIGSLDNITHVPGGGNKKIETHKLTFRENAKAKTDHGAEIVYKSPVVSGDTSPRHLSNVSSTGSIDMVDSPQLATLADEVSASLAKQGL |
| 5722 | sp|Q9NU19|TB22B\_HUMAN | MAAENSKQFWKRSAKLPGSIQPVYGAQHPPLDPRLTKNFIKERSKVNTVPLKNKKASSFHEFARNTSDAWDIGDDEEEDFSSPSFQTLNSKVALATAAQVLENHSKLRVKPERSQSTTSDVPANYKVIKSSSDAQLSRNSSDTCLRNPLHKQQSLPLRPIIPLVARISDQNASGAPPMTVREKTRLEKFRQLLSSQNTDLDELRKCSWPGVPREVRPITWRLLSGYLPANTERRKLTLQRKREEYFGFIEQYYDSRNEEHHQDTYRQIHIDIPRTNPLIPLFQQPLVQEIFERILFIWAIRHPASGYVQGINDLVTPFFVVFLSEYVEEDVENFDVTNLSQDMLRSIEADSFWCMSKLLDGIQDNYTFAQPGIQKKVKALEELVSRIDEQVHNHFRRYEVEYLQFAFRWMNNLLMRELPLRCTIRLWDTYQSEPEGFSHFHLYVCAAFLIKWRKEILDEEDFQGLLMLLQNLPTIHWGNEEIGLLLAEAYRLKYMFADAPNHYRR |
| 5723 | sp|C1PGW1|TED7\_ZINVI | MASPLSQSVFPHFPPPSPAATPPPAPTTPSTPPPHFISPPPHSVPPPSPPHSVPPPLHPVPPPSPPHPVSPPPHTVPPPSPPHPVSPPPHTVPPPSPPHPVFPPPHTVPPPSPHFVPPPPNMVPPPSPPHANPPPPPPPHSVPPPPHTVPPPPPPPHIIPPPAHALSPPPPHIIPPPPPSPSNHSTTIVVIFVSCGGVFFLAFAMAALWCFLKKKKKKMVQKAENIHFDEHRKVTERIEQGPHGTETAILSVEDDIHIEEDIKKSELENFRKGLHLNYGNTYNIDTGKPSSSFGHHYLHG |
| 5724 | sp|P11031|TCP4\_MOUSE | MPKSKELVSSSSSGSDSDSEVEKKLKRKKQAVPEKPVKKQKPGETSRALASSKQSSSSRDDNMFQIGKMRYVSVRDFKGKILIDIREYWMDSEGEMKPGRKGISLNMEQWSQLKEQISDIDDAVRKL |
| 5725 | sp|P70062|T7L1A\_XENLA | MPQLNSGGGDELGANDELIRFKDEGEQEEKSPGEGSAEGDLADVKSSLVNESENHSSDSDSEVERRPPPREAFEKHRDYLTEALRRQQDAAFFKGPPYAGYPFLMIPDLGGHYLPNGALSPSARTYLQMKWPLLDSPSTAGLKDARSPSPAHLSNKVPVVQHPHHMHPLTPLITYSNEHFSPGTPPGHLSPEIDPKTGIPRPPHPSELSPYYPLSPGAVGQIPHPLGWLVPPQGQPMYSIPPGGFRHPYPALAMNASMSSLVSSRFSPHMVPPPHHSLHTSGIPHPAIVSPIVKQEPSSGNISPNLHTKSNMIVKKEEEKKPHIKKPLNAFMLYMKEMRAKVVAECTLKESAAINQILGRRWHSLSREEQAKYYELARKERQLHSQLYPSWSARDNYGKRKKRKREKQSPEMETHTKTKKMCVQHLPADKSCDSPASSHGSMLDSPATPSAALASPAAPAATHSEQAQPLSLTTKPEARAQLSLSHSAAFLASKSPSSSSFSGHLSSPVGSPLLSRPIPLTSSILSPSGVFPSALQALPLLQAQPLSLVTKSSD |
| 5726 | sp|P24604|TEC\_MOUSE | MNFNTILEEILIKRSQQKKKTSLLNYKERLCVLPKSVLSYYEGRAEKKYRKGVIDISKIKCVEIVKNDDGVIPCQNKFPFQVVHDANTLYIFAPSPQSRDRWVKKLKEEIKNNNNIMIKYHPKFWADGSYQCCRQTEKLAPGCEKYNLFESSIRKTLPPAPEIKKRRPPPPIPPEEENTEEIVVAMYDFQATEAHDLRLERGQEYIILEKNDLHWWRARDKYGSEGYIPSNYVTGKKSNNLDQYEWYCRNTNRSKAEQLLRTEDKEGGFMVRDSSQPGLYTVSLYTKFGGEGSSGFRHYHIKETATSPKKYYLAEKHAFGSIPEIIEYHKHNAAGLVTRLRYPVSTKGKNAPTTAGFSYDKWEINPSELTFMRELGSGLFGVVRLGKWRAQYKVAIKAIREGAMCEEDFIEEAKVMMKLTHPKLVQLYGVCTQQKPIYIVTEFMERGCLLNFLRQRQGHFSRDMLLSMCQDVCEGMEYLERNSFIHRDLAARNCLVNEAGVVKVSDFGMARYVLDDQYTSSSGAKFPVKWCPPEVFNYSRFSSKSDVWSFGVLMWEIFTEGRMPFEKNTNYEVVTMVTRGHRLHRPKLATKYLYEVMLRCWQERPEGRPSLEDLLRTIDELVECEETFGR |
| 5727 | sp|Q833J1|TCPF\_ENTFA | MSNGKKIFISHSSKDQEYVDAFIQLLKKFGFRTQDIFYSSTIETGVQPGELIFDTIKRELTNQPVMLYFLSDHYYQSIPCLNEMGASWMLSDKHYPIALNNFSMKDMKGVISSERLAIAFNDKTSTNEINCLLKKLSHDTDVQAEPDFELNVEKNIQPFQNKLTQLIRQASYLKPDEKGYFETILSTHRPVYGTAKGVYDCFKLPSLIEPKSLGLDTLSEDESHWLFFFLTWGTFQEGEKVRFKLKKDKAYNNREFSDIGKCKNIYVSYLEKVE |
| 5728 | sp|Q9Y3Q8|T22D4\_HUMAN | MSGGKKKSSFQITSVTTDYEGPGSPGASDPPTPQPPTGPPPRLPNGEPSPDPGGKGTPRNGSPPPGAPSSRFRVVKLPHGLGEPYRRGRWTCVDVYERDLEPHSFGGLLEGIRGASGGAGGRSLDSRLELASLGLGAPTPPSGLSQGPTSWLRPPPTSPGPQARSFTGGLGQLVVPSKAKAEKPPLSASSPQQRPPEPETGESAGTSRAATPLPSLRVEAEAGGSGARTPPLSRRKAVDMRLRMELGAPEEMGQVPPLDSRPSSPALYFTHDASLVHKSPDPFGAVAAQKFSLAHSMLAISGHLDSDDDSGSGSLVGIDNKIEQAMDLVKSHLMFAVREEVEVLKEQIRELAERNAALEQENGLLRALASPEQLAQLPSSGVPRLGPPAPNGPSV |
| 5729 | sp|Q9UL54|TAOK2\_HUMAN | MPAGGRAGSLKDPDVAELFFKDDPEKLFSDLREIGHGSFGAVYFARDVRNSEVVAIKKMSYSGKQSNEKWQDIIKEVRFLQKLRHPNTIQYRGCYLREHTAWLVMEYCLGSASDLLEVHKKPLQEVEIAAVTHGALQGLAYLHSHNMIHRDVKAGNILLSEPGLVKLGDFGSASIMAPANSFVGTPYWMAPEVILAMDEGQYDGKVDVWSLGITCIELAERKPPLFNMNAMSALYHIAQNESPVLQSGHWSEYFRNFVDSCLQKIPQDRPTSEVLLKHRFVLRERPPTVIMDLIQRTKDAVRELDNLQYRKMKKILFQEAPNGPGAEAPEEEEEAEPYMHRAGTLTSLESSHSVPSMSISASSQSSSVNSLADASDNEEEEEEEEEEEEEEEGPEAREMAMMQEGEHTVTSHSSIIHRLPGSDNLYDDPYQPEITPSPLQPPAAPAPTSTTSSARRRAYCRNRDHFATIRTASLVSRQIQEHEQDSALREQLSGYKRMRRQHQKQLLALESRLRGEREEHSARLQRELEAQRAGFGAEAEKLARRHQAIGEKEARAAQAEERKFQQHILGQQKKELAALLEAQKRTYKLRKEQLKEELQENPSTPKREKAEWLLRQKEQLQQCQAEEEAGLLRRQRQYFELQCRQYKRKMLLARHSLDQDLLREDLNKKQTQKDLECALLLRQHEATRELELRQLQAVQRTRAELTRLQHQTELGNQLEYNKRREQELRQKHAAQVRQQPKSLKVRAGQRPPGLPLPIPGALGPPNTGTPIEQQPCSPGQEAVLDQRMLGEEEEAVGERRILGKEGATLEPKQQRILGEESGAPSPSPQKHGSLVDEEVWGLPEEIEELRVPSLVPQERSIVGQEEAGTWSLWGKEDESLLDEEFELGWVQGPALTPVPEEEEEEEEGAPIGTPRDPGDGCPSPDIPPEPPPTHLRPCPASQLPGLLSHGLLAGLSFAVGSSSGLLPLLLLLLLPLLAAQGGGGLQAALLALEVGLVGLGASYLLLCTALHLPSSLFLLLAQGTALGAVLGLSWRRGLMGVPLGLGAAWLLAWPGLALPLVAMAAGGRWVRQQGPRVRRGISRLWLRVLLRLSPMAFRALQGCGAVGDRGLFALYPKTNKDGFRSRLPVPGPRRRNPRTTQHPLALLARVWVLCKGWNWRLARASQGLASHLPPWAIHTLASWGLLRGERPTRIPRLLPRSQRQLGPPASRQPLPGTLAGRRSRTRQSRALPPWR |
| 5730 | sp|Q3MII6|TBC25\_HUMAN | MATASGASDLSGSGAPPPGVGAQAAAAAEEEEREVVRVRVKKCESFLPPEFRSFAVDPQITSLDVLQHILIRAFDLSGKKNFGISYLGRDRLGQEVYLSLLSDWDLSTAFATASKPYLQLRVDIRPSEDSPLLEDWDIISPKDVIGSDVLLAEKRSSLTTAALPFTQSILTQVGRTLSKVQQVLSWSYGEDVKPFKPPLSDAEFHTYLNHEGQLSRPEELRLRIYHGGVEPSLRKVVWRYLLNVYPDGLTGRERMDYMKRKSREYEQLKSEWAQRANPEDLEFIRSTVLKDVLRTDRAHPYYAGPEDGPHLRALHDLLTTYAVTHPQVSYCQGMSDLASPILAVMDHEGHAFVCFCGIMKRLAANFHPDGRAMATKFAHLKLLLRHADPDFYQYLQEAGADDLFFCYRWLLLELKREFAFDDALRMLEVTWSSLPPDPPEHEVELVGPPSQVADAGFGGHRGWPVRQRHMLRPAGGGGSTFEDAVDHLATASQGPGGGGRLLRQASLDGLQQLRDNMGSRRDPLVQLPHPAALISSKSLSEPLLNSPDPLLSSFSHPDSPSSSSPPSTQEASPTGDMAVGSPLMQEVGSPKDPGKSLPPVPPMGLPPPQEFGRGNPFMLFLCLAILLEHRDHIMRNGLDYNELAMHFDRLVRKHHLGRVLRRARALFADYLQSEVWDSEEGAEATAAS |
| 5731 | sp|P29037|TBP\_MOUSE | MDQNNSLPPYAQGLASPQGAMTPGIPIFSPMMPYGTGLTPQPIQNTNSLSILEEQQRQQQQQQQQQQQQQAVATAAASVQQSTSQQPTQGASGQTPQLFHSQTLTTAPLPGTTPLYPSPMTPMTPITPATPASESSGIVPQLQNIVSTVNLGCKLDLKTIALRARNAEYNPKRFAAVIMRIREPRTTALIFSSGKMVCTGAKSEEQSRLAARKYARVVQKLGFPAKFLDFKIQNMVGSCDVKFPIRLEGLVLTHQQFSSYEPELFPGLIYRMIKPRIVLLIFVSGKVVLTGAKVRAEIYEAFENIYPILKGFRKTT |
| 5732 | sp|Q9R1C0|TAF7\_MOUSE | MSKNKDDAPHELESQFILRLPPEYAATVRRAVQSGHVNLKDKLSIELHPDGRHGIVRVDRVPLAAKLVDLPCVTESLKTIDKKTFYKTADISQMLVATVDGDLYPPVEEAAATADPKANKKKDKDKEKKFVWNHGITLPLKNVRKRRFRKTAKKKYIESPDVEKEVKRLLSTDAEAVSTRWEIIAEDETKETENQGLDISSPGMSGHRQGHDSLEHDELREIFNDLSSSSEDEEDVNILDTEEDLERQLQDKLNESDEQHQENEGTNQLVMGIQKQIDNMKGKLQETQDRAKRQEDLIMKVENLALKNRFQAVLDELKQKEDREKEQLSSLQEELESLLEK |
| 5733 | sp|Q9UL49|TCFL5\_HUMAN | MSGPGPREPPPEAGAAGGEAAVEGAGGGDAALGEPGLSFTTTDLSLVEMTEVEYTQLQHILCSHMEAAADGELETRLNSALLAAAGPGAGAGGFAAGGQGGAAPVYPVLCPSALAADAPCLGHIDFQELRMMLLSEAGAAEKTSGGGDGARARADGAAKEGAGAAAAAAGPDGAPEARAKPAVRVRLEDRFNSIPAEPPPAPRGPEPPEPGGALNNLVTLIRHPSELMNVPLQQQNKCTALVKNKTAATTTALQFTYPLFTTNACSTSGNSNLSQTQSSSNSCSVLEAAKHQDIGLPRAFSFCYQQEIESTKQTLGSRNKVLPEQVWIKVGEAALCKQALKRNRSRMRQLDTNVERRALGEIQNVGEGATATQGAWQSSESSQANLGEQAQSGPQGGRSQRRERHNRMERDRRRRIRICCDELNLLVPFCNAETDKATTLQWTTAFLKYIQERHGDSLKKEFESVFCGKTGRRLKLTRPDSLVTCPAQGSLQSSPSMEIK |
| 5734 | sp|Q9H2K8|TAOK3\_HUMAN | MRKGVLKDPEIADLFYKDDPEELFIGLHEIGHGSFGAVYFATNAHTSEVVAIKKMSYSGKQTHEKWQDILKEVKFLRQLKHPNTIEYKGCYLKEHTAWLVMEYCLGSASDLLEVHKKPLQEVEIAAITHGALHGLAYLHSHALIHRDIKAGNILLTEPGQVKLADFGSASMASPANSFVGTPYWMAPEVILAMDEGQYDGKVDIWSLGITCIELAERKPPLFNMNAMSALYHIAQNDSPTLQSNEWTDSFRRFVDYCLQKIPQERPTSAELLRHDFVRRDRPLRVLIDLIQRTKDAVRELDNLQYRKMKKILFQETRNGPLNESQEDEEDSEHGTSLNREMDSLGSNHSIPSMSVSTGSQSSSVNSMQEVMDESSSELVMMHDDESTINSSSSVVHKKDHVFIRDEAGHGDPRPEPRPTQSVQSQALHYRNRERFATIKSASLVTRQIHEHEQENELREQMSGYKRMRRQHQKQLIALENKLKAEMDEHRLKLQKEVETHANNSSIELEKLAKKQVAIIEKEAKVAAADEKKFQQQILAQQKKDLTTFLESQKKQYKICKEKIKEEMNEDHSTPKKEKQERISKHKENLQHTQAEEEAHLLTQQRLYYDKNCRFFKRKIMIKRHEVEQQNIREELNKKRTQKEMEHAMLIRHDESTRELEYRQLHTLQKLRMDLIRLQHQTELENQLEYNKRRERELHRKHVMELRQQPKNLKAMEMQIKKQFQDTCKVQTKQYKALKNHQLEVTPKNEHKTILKTLKDEQTRKLAILAEQYEQSINEMMASQALRLDEAQEAECQALRLQLQQEMELLNAYQSKIKMQTEAQHERELQKLEQRVSLRRAHLEQKIEEELAALQKERSERIKNLLERQEREIETFDMESLRMGFGNLVTLDFPKEDYR |
| 5735 | sp|O43680|TCF21\_HUMAN | MSTGSLSDVEDLQEVEMLECDGLKMDSNKEFVTSNESTEESSNCENGSPQKGRGGLGKRRKAPTKKSPLSGVSQEGKQVQRNAANARERARMRVLSKAFSRLKTTLPWVPPDTKLSKLDTLRLASSYIAHLRQILANDKYENGYIHPVNLTWPFMVAGKPESDLKEVVTASRLCGTTAS |
| 5736 | sp|P62072|TIM10\_HUMAN | MDPLRAQQLAAELEVEMMADMYNRMTSACHRKCVPPHYKEAELSKGESVCLDRCVSKYLDIHERMGKKLTELSMQDEELMKRVQQSSGPA |
| 5737 | sp|P14611|THIL\_CUPNH | MTDVVIVSAARTAVGKFGGSLAKIPAPELGAVVIKAALERAGVKPEQVSEVIMGQVLTAGSGQNPARQAAIKAGLPAMVPAMTINKVCGSGLKAVMLAANAIMAGDAEIVVAGGQENMSAAPHVLPGSRDGFRMGDAKLVDTMIVDGLWDVYNQYHMGITAENVAKEYGITREAQDEFAVGSQNKAEAAQKAGKFDEEIVPVLIPQRKGDPVAFKTDEFVRQGATLDSMSGLKPAFDKAGTVTAANASGLNDGAAAVVVMSAAKAKELGLTPLATIKSYANAGVDPKVMGMGPVPASKRALSRAEWTPQDLDLMEINEAFAAQALAVHQQMGWDTSKVNVNGGAIAIGHPIGASGCRILVTLLHEMKRRDAKKGLASLCIGGGMGVALAVERK |
| 5738 | sp|Q9PVE4|THB\_DANRE | MSEQADKCNSRWKDEAMQNGYIPSYLDKDELCVVCGDKATGYHYRCITCEGCKGFFRRTIQKNLNPTYACKYEGKCVIDKVTRNQCQECRFKKCIAVGMATDLVLDDSKRLAKRKLIEENRERRRREELQKTVWDRPEPTQEEWEMIRVVTEAHMATNAQGNHWKQKRKFLSAVGVKEAKPEDIGSAPIVNAPEGNKVDIEAFSQFTKIITPAITRVVDFAKKLPMFCELPCEDQIILLKGCCMEIMSLRAAVRYDPESDTLTLNGEMAVTRGQLKNGGLGVVSDAIFDLGVSLSSFNLDDSEVALLQAVILLSSDRPGLTSVERIERCQEEFLLAFEHYINYRKHKVAHFWPKLLMKVTDLRMIGACHASRFLHMKVECPTELFPPLFLEVFED |
| 5739 | sp|Q9NPL8|TIDC1\_HUMAN | MEVPPPAPRSFLCRALCLFPRVFAAEAVTADSEVLEERQKRLPYVPEPYYPESGWDRLRELFGKDEQQRISKDLANICKTAATAGIIGWVYGGIPAFIHAKQQYIEQSQAEIYHNRFDAVQSAHRAATRGFIRYGWRWGWRTAVFVTIFNTVNTSLNVYRNKDALSHFVIAGAVTGSLFRINVGLRGLVAGGIIGALLGTPVGGLLMAFQKYSGETVQERKQKDRKALHELKLEEWKGRLQVTEHLPEKIESSLQEDEPENDAKKIEALLNLPRNPSVIDKQDKD |
| 5740 | sp|P10599|THIO\_HUMAN | MVKQIESKTAFQEALDAAGDKLVVVDFSATWCGPCKMIKPFFHSLSEKYSNVIFLEVDVDDCQDVASECEVKCMPTFQFFKKGQKVGEFSGANKEKLEATINELV |
| 5741 | sp|Q08639|TFDP1\_MOUSE | MAKDASLIEANGELKVFIDQNLSPGKGVVSLVAVHPSTVNTLGKQLLPKTFGQSNVNITQQVVIGTPQRPAASNTIVVGSPHTPNTHFVSQNQTSDSSPWSAGKRNRKGEKNGKGLRHFSMKVCEKVQRKGTTSYNEVADELVAEFSAADNHILPNESAYDQKNIRRRVYDALNVLMAMNIISKEKKEIKWIGLPTNSAQECQNLEVERQRRLERIKQKQSQLQELILQQIAFKNLVQRNRQAEQQARRPPPPNSVIHLPFIIVNTSRKTVIDCSISNDKFEYLFNFDNTFEIHDDIEVLKRMGMACGLESGNCSAEDLKVARSLVPKALEPYVTEMAQGSIGGVFVTTTGSTSNGTRLSASDLSNGADGMLATSSNGSQYSGSRVETPVSYVGEDDDDDDDFNENDEED |
| 5742 | sp|P17152|TMM11\_HUMAN | MAAWGRRRLGPGSSGGSARERVSLSATDCYIVHEIYNGENAQDQFEYELEQALEAQYKYIVIEPTRIGDETARWITVGNCLHKTAVLAGTACLFTPLALPLDYSHYISLPAGVLSLACCTLYGISWQFDPCCKYQVEYDAYKLSRLPLHTLTSSTPVVLVRKDDLHRKRLHNTIALAALVYCVKKIYELYAV |
| 5743 | sp|Q86V81|THOC4\_HUMAN | MADKMDMSLDDIIKLNRSQRGGRGGGRGRGRAGSQGGRGGGAQAAARVNRGGGPIRNRPAIARGAAGGGGRNRPAPYSRPKQLPDKWQHDLFDSGFGGGAGVETGGKLLVSNLDFGVSDADIQELFAEFGTLKKAAVHYDRSGRSLGTADVHFERKADALKAMKQYNGVPLDGRPMNIQLVTSQIDAQRRPAQSVNRGGMTRNRGAGGFGGGGGTRRGTRGGARGRGRGAGRNSKQQLSAEELDAQLDAYNARMDTS |
| 5744 | sp|Q13445|TMED1\_HUMAN | MMAAGAALALALWLLMPPVEVGGAGPPPIQDGEFTFLLPAGRKQCFYQSAPANASLETEYQVIGGAGLDVDFTLESPQGVLLVSESRKADGVHTVEPTEAGDYKLCFDNSFSTISEKLVFFELIFDSLQDDEEVEGWAEAVEPEEMLDVKMEDIKESIETMRTRLERSIQMLTLLRAFEARDRNLQEGNLERVNFWSAVNVAVLLLVAVLQVCTLKRFFQDKRPVPT |
| 5745 | sp|P47974|TISD\_HUMAN | MSTTLLSAFYDVDFLCKTEKSLANLNLNNMLDKKAVGTPVAAAPSSGFAPGFLRRHSASNLHALAHPAPSPGSCSPKFPGAANGSSCGSAAAGGPTSYGTLKEPSGGGGTALLNKENKFRDRSFSENGDRSQHLLHLQQQQKGGGGSQINSTRYKTELCRPFEESGTCKYGEKCQFAHGFHELRSLTRHPKYKTELCRTFHTIGFCPYGPRCHFIHNADERRPAPSGGASGDLRAFGTRDALHLGFPREPRPKLHHSLSFSGFPSGHHQPPGGLESPLLLDSPTSRTPPPPSCSSASSCSSSASSCSSASAASTPSGAPTCCASAAAAAAAALLYGTGGAEDLLAPGAPCAACSSASCANNAFAFGPELSSLITPLAIQTHNFAAVAAAAYYRSQQQQQQQGLAPPAQPPAPPSATLPAGAAAPPSPPFSFQLPRRLSDSPVFDAPPSPPDSLSDRDSYLSGSLSSGSLSGSESPSLDPGRRLPIFSRLSISDD |
| 5746 | sp|Q7Z403|TMC6\_HUMAN | MAQPLAFILDVPETPGDQGQGPSPYDESEVHDSFQQLIQEQSQCTAQEGLELQQREREVTGSSQQTLWRPEGTQSTATLRILASMPSRTIGRSRGAIISQYYNRTVQLRCRSSRPLLGNFVRSAWPSLRLYDLELDPTALEEEEKQSLLVKELQSLAVAQRDHMLRGMPLSLAEKRSLREKSRTPRGKWRGQPGSGGVCSCCGRLRYACVLALHSLGLALLSALQALMPWRYALKRIGGQFGSSVLSYFLFLKTLLAFNALLLLLLVAFIMGPQVAFPPALPGPAPVCTGLELLTGAGCFTHTVMYYGHYSNATLNQPCGSPLDGSQCTPRVGGLPYNMPLAYLSTVGVSFFITCITLVYSMAHSFGESYRVGSTSGIHAITVFCSWDYKVTQKRASRLQQDNIRTRLKELLAEWQLRHSPRSVCGRLRQAAVLGLVWLLCLGTALGCAVAVHVFSEFMIQSPEAAGQEAVLLVLPLVVGLLNLGAPYLCRVLAALEPHDSPVLEVYVAICRNLILKLAILGTLCYHWLGRRVGVLQGQCWEDFVGQELYRFLVMDFVLMLLDTLFGELVWRIISEKKLKRRRKPEFDIARNVLELIYGQTLTWLGVLFSPLLPAVQIIKLLLVFYVKKTSLLANCQAPRRPWLASHMSTVFLTLLCFPAFLGAAVFLCYAVWQVKPSSTCGPFRTLDTMYEAGRVWVRHLEAAGPRVSWLPWVHRYLMENTFFVFLVSALLLAVIYLNIQVVRGQRKVICLLKEQISNEGEDKIFLINKLHSIYERKEREERSRVGTTEEAAAPPALLTDEQDA |
| 5747 | sp|Q99ML2|TNK1\_MOUSE | MLPEASSLWLLRLLRDVQLAQFYRPILEELNVTRPEHFDFVRPEDLDNIGMGRPAQRRLNEALKRYRSGVKSKNWVYKILGGFAPEQKEIPPRSDSPLCFHEPEGGLKCLIPEGAVRRGELLGSGCFGVVHRGLWTLPSGQSIPVAVKSLRVGPEGPMGTELGDFLREVSVMMKLEHPHVLRLHGLVLGQPLQMVMELAPLGSLHARLTAPAPTPPLPVALLCLFLRQLAGAMAYLGSCGLVHRDLATRNLLLASPRMIKVADFGLVRPLGGARGRYVMGGPRPIPYAWCAPESLRQGAFSSASDVWMFGVTLWEMFSGGEEPWAGVPPYLILQRLEKDRARLPKPPLCSRALYSLALRCWAPHPADRPSFSNLEGLLQEAWLSEGRCVREVTEPGALRMEPGDPITIIEGSLDTATWKGQNGRTLKVGNFPASAVTLADLGGSPVTHPAHRGSPAHGEKCRGGTDGDREKATLQDLPPARSHRTKMPLQRMRGISKSLESVLSLGPRPTGGGSSPPELRRTRAMPQRLPDLPPRPPDLPPRPPIICNSSQPTQPHKARPKRESSHNHRTGAPGASKATVPSGGPLSDPEWQRKVVEVELSVHGVTYQECQVALRTTGGDVASAIRNLKVDQLFHLSNRSRADCRRILEHHQWDLSAASRYILARS |
| 5748 | sp|Q8WW34|TM239\_HUMAN | MRVGTWICLPGRPGRCRKQHDLGNCPEVPGIFKTLALSPGAPDMMQQPRVETDTIGAGEGPQQAVPWSAWVTRHGWVRWWVSHMPPSWIQWWSTSNWRQPLQRLLWGLEGILYLLLALMLCHALFTTGSHLLSSLWPVVAAVWRHLLPALLLLVLSALPALLFTASFLLLFSTLLSLVGLLTSMTHPGDTQDLDQ |
| 5749 | sp|P9WG35|TPX\_MYCTU | MAQITLRGNAINTVGELPAVGSPAPAFTLTGGDLGVISSDQFRGKSVLLNIFPSVDTPVCATSVRTFDERAAASGATVLCVSKDLPFAQKRFCGAEGTENVMPASAFRDSFGEDYGVTIADGPMAGLLARAIVVIGADGNVAYTELVPEIAQEPNYEAALAALGA |
| 5750 | sp|O15344|TRI18\_HUMAN | METLESELTCPICLELFEDPLLLPCAHSLCFNCAHRILVSHCATNESVESITAFQCPTCRHVITLSQRGLDGLKRNVTLQNIIDRFQKASVSGPNSPSETRRERAFDANTMTSAEKVLCQFCDQDPAQDAVKTCVTCEVSYCDECLKATHPNKKPFTGHRLIEPIPDSHIRGLMCLEHEDEKVNMYCVTDDQLICALCKLVGRHRDHQVAALSERYDKLKQNLESNLTNLIKRNTELETLLAKLIQTCQHVEVNASRQEAKLTEECDLLIEIIQQRRQIIGTKIKEGKVMRLRKLAQQIANCKQCIERSASLISQAEHSLKENDHARFLQTAKNITERVSMATASSQVLIPEINLNDTFDTFALDFSREKKLLECLDYLTAPNPPTIREELCTASYDTITVHWTSDDEFSVVSYELQYTIFTGQANVVSLCNSADSWMIVPNIKQNHYTVHGLQSGTKYIFMVKAINQAGSRSSEPGKLKTNSQPFKLDPKSAHRKLKVSHDNLTVERDESSSKKSHTPERFTSQGSYGVAGNVFIDSGRHYWEVVISGSTWYAIGLAYKSAPKHEWIGKNSASWALCRCNNNWVVRHNSKEIPIEPAPHLRRVGILLDYDNGSIAFYDALNSIHLYTFDVAFAQPVCPTFTVWNKCLTIITGLPIPDHLDCTEQLP |
| 5751 | sp|Q9QUS6|TRIM1\_MOUSE | MGESPASAVLNASAGLFSLKMETLESELTCPICLELFEDPLLLPCAHSLCFSCAHRILVSSCSSGESIEPITAFQCPTCRYVISLNHRGLDGLKRNVTLQNIIDRFQKASVSGPNSPSESRRERTYRPSSAMSSERIACQFCEQDPPRDAVKTCITCEVSYCDRCLRATHPNKKPFTSHRLVEPVSDTHLRGITCLDHENEKVNMYCVSDDQLICALCKLVGRHRDHQVASLNDRFEKLKQTLEMNLTNLVKRNSELENQMAKLIQICQQVEVNTAMHEAKLMEECDELVEIIQQRKQMIAVKIKETKVMKLRKLAQQVANCRQCLERSTVLINQAEHILKENDQARFLQSAKNIAERVAMATASSQVLIPDINFNDAFENFALDFSREKKLLEGLDYLTAPNPPSIREELCTASHDTITVHWISDDEFSISSYELQYTIFTGQANFISLYNSVDSWMIVPNIKQNHYTVHGLQSGTRYIFIVKAINQAGSRNSEPTRLKTNSQPFKLDPKMTHKKLKISNDGLQMEKDESSLKKSHTPERFSGTGCYGAAGNIFIDSGCHYWEVVMGSSTWYAIGIAYKSAPKNEWIGKNASSWVFSRCNSNFVVRHNNKEMLVDVPPQLKRLGVLLDYDNNMLSFYDPANSLHLHTFDVTFILPVCPTFTIWNKSLMILSGLPAPDFIDYPERQECNCRPQESPYVSGMKACH |
| 5752 | sp|P07213|TOM70\_YEAST | MKSFITRNKTAILATVAATGTAIGAYYYYNQLQQQQQRGKKNTINKDEKKDTKDSQKETEGAKKSTAPSNPPIYPVSSNGEPDFSNKANFTAEEKDKYALALKDKGNQFFRNKKYDDAIKYYNWALELKEDPVFYSNLSACYVSVGDLKKVVEMSTKALELKPDYSKVLLRRASANEGLGKFADAMFDLSVLSLNGDFNDASIEPMLERNLNKQAMSKLKEKFGDIDTATATPTELSTQPAKERKDKQENLPSVTSMASFFGIFKPELTFANYDESNEADKELMNGLSNLYKRSPESYDKADESFTKAARLFEEQLDKNNEDEKLKEKLAISLEHTGIFKFLKNDPLGAHEDIKKAIELFPRVNSYIYMALIMADRNDSTEYYNYFDKALKLDSNNSSVYYHRGQMNFILQNYDQAGKDFDKAKELDPENIFPYIQLACLAYRENKFDDCETLFSEAKRKFPEAPEVPNFFAEILTDKNDFDKALKQYDLAIELENKLDGIYVGIAPLVGKATLLTRNPTVENFIEATNLLEKASKLDPRSEQAKIGLAQMKLQQEDIDEAITLFEESADLARTMEEKLQAITFAEAAKVQQRIRSDPVLAKKIQETLAKLREQGLM |
| 5753 | sp|O60704|TPST2\_HUMAN | MRLSVRRVLLAAGCALVLVLAVQLGQQVLECRAVLAGLRSPRGAMRPEQEELVMVGTNHVEYRYGKAMPLIFVGGVPRSGTTLMRAMLDAHPEVRCGEETRIIPRVLAMRQAWSKSGREKLRLDEAGVTDEVLDAAMQAFILEVIAKHGEPARVLCNKDPFTLKSSVYLSRLFPNSKFLLMVRDGRASVHSMITRKVTIAGFDLSSYRDCLTKWNKAIEVMYAQCMEVGKEKCLPVYYEQLVLHPRRSLKLILDFLGIAWSDAVLHHEDLIGKPGGVSLSKIERSTDQVIKPVNLEALSKWTGHIPGDVVRDMAQIAPMLAQLGYDPYANPPNYGNPDPFVINNTQRVLKGDYKTPANLKGYFQVNQNSTSSHLGSS |
| 5754 | sp|Q12400|TRM10\_YEAST | MSNDEINQNEEKVKRTPPLPPVPEGMSKKQWKKMCKRQRWEENKAKYNAERRVKKKRLRHERSAKIQEYIDRGEEVPQELIREPRINVNQTDSGIEIILDCSFDELMNDKEIVSLSNQVTRAYSANRRANHFAEIKVAPFDKRLKQRFETTLKNTNYENWNHFKFLPDDKIMFGDEHISKDKIVYLTADTEEKLEKLEPGMRYIVGGIVDKNRYKELCLKKAQKMGIPTRRLPIDEYINLEGRRVLTTTHVVQLMLKYFDDHNWKNAFESVLPPRKLDAEAKSASSSPAPKDT |
| 5755 | sp|Q9UPQ4|TRI35\_HUMAN | MERSPDVSPGPSRSFKEELLCAVCYDPFRDAVTLRCGHNFCRGCVSRCWEVQVSPTCPVCKDRASPADLRTNHTLNNLVEKLLREEAEGARWTSYRFSRVCRLHRGQLSLFCLEDKELLCCSCQADPRHQGHRVQPVKDTAHDFRAKCRNMEHALREKAKAFWAMRRSYEAIAKHNQVEAAWLEGRIRQEFDKLREFLRVEEQAILDAMAEETRQKQLLADEKMKQLTEETEVLAHEIERLQMEMKEDDVSFLMKHKSRKRRLFCTMEPEPVQPGMLIDVCKYLGSLQYRVWKKMLASVESVPFSFDPNTAAGWLSVSDDLTSVTNHGYRVQVENPERFSSAPCLLGSRVFSQGSHAWEVALGGLQSWRVGVVRVRQDSGAEGHSHSCYHDTRSGFWYVCRTQGVEGDHCVTSDPATSPLVLAIPRRLRVELECEEGELSFYDAERHCHLYTFHARFGEVRPYFYLGGARGAGPPEPLRICPLHISVKEELDG |
| 5756 | sp|E9Q9K5|TRDN\_MOUSE | MTEITAEGNASTTTTVIDNKNGCIPKSPGKVLKRSVTEDIVTTFSSPAAWLLVIALIITWSAVAIVMFDLVDYKNFSASSIAKIGSDPLKLVNDAVEETTDWIYGFFSLLSDIISSEGDEDDEDADEDIDKGEIEEPPLKRKEIHQEKAEKEEKPEKKIQTKASHREREKGKEKLKGEKPEKTATHKEKLEKKERPETKMMAKEDKKIKTKEKTEEKAKKEMKVGKQEKVKPTAAKAKETPKTPPKARKKDDKEMPAVHEQKDQYAFCRYMIDMFVHGDLKPGQSPVMPPPSLTPSKPALSTTALEEKEKEEKKKMEKKDTSDTKKKEKEVKKKSEETTIDGKGKEPGKPPETKQMTAKLTTQAAARKDEKKEESKKMRKPTEEQPKGKKQEKKEKHIEPAKTPKKEHPGPSEKLKKAKAEQAKEEIAAASTKKALHGKKEEKAKTVEQEVKKEKSGKSSSDLKDKEVKKEKSGKSSSDLKDKEPQLKNEEKSKPQVKKEAKLASSDKGQTRKQNITRPEQVIPHVKPEKAEHQEKGHPSIKKDKPKPSSKGAPEVPDSGKKKIEKSEKESKVPTREENLQVYNVTKAEKPGKIPKDSKEAPASKKDKEDSKEAPTSKKDKEDSKDVPHSKKDKEVTDDVSSPKKQTRPISFFQCVYLNGYNGYGFQFPVTPVQQPGENPGKTNSPGQKQQEQ |
| 5757 | sp|Q03280|TOM1\_YEAST | MVLFTRCEKARKEKLAAGYKPLVDYLIDCDTPTFLERIEAIQEWDRSRDDLYVWIPILDRMDGLLLKVAEKYKYKQDPKKECEVKLVEMEAHDVDYCLKMLKFTRRLLLNTENRFVYSSGDVLMYLLNCPNFTIKLAVMRILAILGERFVIAREKIVAHNIFGDHNLRKKTLKLALSLSSSVMDEDGEHFSLVDLYFDKKKVPQKWRKLRFTHYTSNDFKKSSQQKNNINETQTSIKKVTMTTQELCEHSLQQIFDKGMALLPAESWFDFSIKASVAKAFSDDSGENIDLRNIIIETKLNAIAFVNTIFSPPQVSSKLFELDPYAFNSLTDLISLSETKIPKELRTDALFTLECISLKHVWCSDIIRNLGGNISHGLLFQILRYIAKTLREATDEIDEEYNVRFFYLISNLADVKPLHESLFAAGLIPTLLEIVSIRNCPYKRTLASATHLLETFIDNSETTTEFIENDGFTMLITSVANEIDFTLAHPETWQPPKYSVVYYSISFRELAYIRSLLKLVLKLLSTDSGDRIRNLIDSPILVSLKKILENKLVFGLTLITYTLDVVQKVINSEPTIYPVLVEAGLIPYVIDNFPKLIGPSAELLSLLPDVVSAICLNPEGLKQVKEKGLINNLFDFLLDADHARILTGGDRSTEYGTDIDELARHYPDLKANIVEALCNVIRKMPSTFRNEREFLFTSPKDQKYFFHRKNEEILTDKEEHEPAYWELLDKGTMLDTFTSVLFGMSLGNGSFSQVPQHLEARDFLAIIFMENPPYEYFTSVAISNVTEVLQYLDEKYEDYAFMDVMKVLNDQLENLNDFLNSPNDRSFFLERDGENSVRSCHSKLCRLAAILNIVTNVYIDLTTLSCKRIMQIYSYFDKRGFSLIKNLKLLFQKCALEEMYIRQHMPDSVITETMPLPIVDVSGDGPPLQIYIDDPKKGDQKGKITSVKTRNTLQMRTILYTLQSNTAILFRCFLRLSHSRNMDLEHKDLTTEVHIFENVVENVIEMLKATELEGHLPYILVLLNFNTFVFTIPKASPNSTEILQTIPAYIFYQKGGYLLYLHIIRDLFTRMTKIKDLSSLDNINYIDESNGILTLSCLINALTFYNKSMQTETMENVQSIGKYYVSIDDDYNIMKALTVPIKVMALAMILDLDKSDSLFKTQSRNVPYSVFKQLLSMLKNIFTNVNIYTKELYELHWDLIFPPIKKISLFEQVGIPGDVAANYLTDTGDDLPADNSIGLFSPEQWEKYKKLIGEDKSIYYPQPMQAQYYKGCSSKELDELRDTFFNDGLPSRIFTVLPFYPKLVNAFAKTLLQIFTKYDEPTEVFAGRILDRILETDLDDPATLSSLIHLFGIFLNEKYIYQKASHLMQRFIEYLEKSLKPEHVNTPWFSKALYVYEIILAKSELPHLEELSKDVLLRYPLLSMAKVFRIPDPMKQKLFDILIRVSDISNFYSALATSRILIFYSRDELYANNIARSGILSRLLKVIGSFQKLDKINFLESSFLLLTRRCFETTENVDALIRAEINRSFTARPLGGGDDAVRELTTILEEKAHVVMRSPSQFIDVLCETARFHEFDDQGALVDYSLKRFLGEKDKNTQASSTEKSDIYERTGIMHLLLSQLMAASEKDWLSEPANSSDLPENKKAQLDPSRNPVCAYMIFLLKLLVELVSSYNQCKFEFLTFSRRNTYAERPRPRTTAINFFLYRLLDKPVGTDHDKHEAKRREVIGMLARSVIIGFLATVQDDRTTKTDVKLADPHMNFIRKFAIEAIIKAIRNATSSSKLLESNHLKLDMWFRIITSMVYVQAPYLRQLLDSNKVEADQYQLCKLVIDLGLPSVITEAMASIDLNYPFSKKIFNVAVEALNTISSTRNNFSEHFKIEDHDEVEDEVDESDKEEIPDMFKNSALGMYDVEDIEEDDDDDTSLIGDDDAMAFVDSDNGFEVVFSDEDDDMGEEDADDARSDSEENELSSEMQSSTADGTDVDYEVDDADGLIINIDQPSGDDEEMADYDANISHSSHSENEDDASMDVIEVYDDELSSGYDVDLSDYDVDESDWDSGLSSLSISDEDSESSEDEPINSTRMGDSRRRWLIAEGVELTDDSQGESEEDDRGVFRGIEHIFSNENEPLFRVHDEMRHRNHHRSINRTHFHSAMSAPSLSLLNRGRRNQSNLINPLGPTGLEQVENDISDQVTVAGSGSRPRSHHLHFSEVLVSGSFFDEPVLDGIILKSTVSRWKDIFDMFYDSKTYANCIIPTVINRLYKVSLALQKDLENKREQEKLKNKNLLFNEAKVESHNSSDAISVEQDDIQESNVTHDDHEPVYVTIQGSEVDIGGTDIDPEFMNALPDDIRADVFAQHVRERRAEARLNSDHNVHSREIDSDFLEAIPEDIREGILDTEAEEQRMFGRIGSSADVIRADDDVSNNDEEVENGLDHGNSNDRNNADPEKKKPARIYFAPLIDRAGIASLMKSVFISKPYIQREIYHELFYRLCSSKQNRNDLMNTFLFILSEGIIDQHSLEKVYNIISSRAMGHAKTTTVRQLPSDCTPLTVANQTIEILQSLIDADSRLKYFLIAEHDNLIVNKANNKSRKEALPDKKLRWPLWHLFSLLDRKLITDESVLMDLLTRILQVCTKTLAVLSTSSNGKENLSKKFHLPSFDEDDLMKILSIIMLDSCTTRVFQQTLNIIYNLSKLQGCMSIFTKHLVSLAISIMSKLKSALDGLSREVGTITTGMEINSELLQKFTLPSSDQAKLLKILTTVDFLYTHKRKEEERNVKDLQSLYDKMNGGPVWSSLSECLSQFEKSQAINTSATILLPLIESLMVVCRRSDLSQNRNTAVKYEDAKLLDFSKTRVENLFFPFTDAHKKLLNQMIRSNPKLMSGPFALLVKNPKVLDFDNKRYFFNAKLKSDNQERPKLPITVRREQVFLDSYRALFFKTNDEIKNSKLEITFKGESGVDAGGVTREWYQVLSRQMFNPDYALFLPVPSDKTTFHPNRTSGINPEHLSFFKFIGMIIGKAIRDQCFLDCHFSREVYKNILGRPVSLKDMESLDPDYYKSLVWILENDITDIIEETFSVETDDYGEHKVINLIEGGKDIIVTEANKQDYVKKVVEYKLQTSVKEQMDNFLVGFYALISKDLITIFDEQELELLISGLPDIDVDDWKNNTTYVNYTATCKEVSYFWRAVRSFDAEERAKLLQFVTGTSKVPLNGFKELSGVNGVCKFSIHRDFGSSERLPSSHTCFNQLNLPPYESYETLRGSLLLAINEGHEGFGLA |
| 5758 | sp|Q9Y7K2|TOR2\_SCHPO | MKEFPGLKSRNEEIRNKAANDLYEYVIAYSRELSGEALVQFNNDVNKYVYTLIHSTDPLDRLAGVTAINRLIDYEGEDTTRITRFANYLRIILPGTDQKATVLAAKALGRLAVPGGALTSEFVNFEVKRALEWLQGERNENRRYAAVLILKELAKNTSTLIYAHIDSIFELLWHGLRDPKVTIRIASADALSEFLKIVRQRDSSIRLQWYTSILNEAQRGVAQGSSDYIHGSLLVYRQLFLKAGMFMHERYREVSDIILQFRDHKDLLIRKTVTELIATLAAYNPDEFVSNYLHVCMLHLLNLLKKENVKMLAFATIGKVAVAITNSIIPYLDPICDSIKESLKIHIRNKSASDAAIFQCISLLSIALGQAFSNYAYDLFDLIFASGLSEASYRALSDLAHNIPPLLPVIQERLLDMLSKILSGRPFIPPGCPPQYVARSLKSSKSASLKTGFFPNDVYILALKVLGNFDFSGYILNEFVKDCVVVYLENNDPEVRKTASITCSQLFARDPILSQTSDHAIQVVAEVLEKLLTVGICDTVPDIRLTVLNSLDSRFNKHLAQADKIRLLFIAINDENFAVRESALRIIGRLNVYNPAYVMPYLRKIMLKTLTILDYSTIIRTKEENAKLLCLLIAAAPRLIESHVEPILQILLPKAKDSSSIVAASIVNSLGEICQISGEVIVPFIKDLMPLIIEALQDQSSPIRRAAALKALGNLSSSTGYVIDPYIEFPSLLDILIGITKTEQDITIRRETIKLIGTLGALDPNRHRVLEKGTEKVVPEQKNIPPDISLLMSGIGPSSDEYYPTVVITALMSILKDPSLTIHHTAVIQAVMYIFKTMGLRCAPFLSQIIPEFIAVMRTCPTNILEFYFQQLSILVLIVRQHIRSFLPDLFKLIKDFWNPHSNLQFTILSLIESLARAMQGEFKPYLPSLLVMMLQIFDSDVSVDSVSTKKVLHAFIVFGDTLADYFHMLLDPILRLYERNDVSIGIKESIMITIGRLSMVINLSEYASRIIHPVMRMLSCNNASLIRVSMDTVCALIYQLNVDFAIFIPMIDKCLKMNGVTHETYSILVEQFLQEQPLPIKLNPYEKYDKPKLDVVASAADITSKKLPVNQEILRNAWEASQRSTKDDWQEWIRRLGVALLRESPSHALRACAALAAAYQPLARDLFNASFVSCWSELYDHFQEELVKSIEIALTSPHISPEIIQILLNLAEFMEHDDKPLPIDIRTLGAYAAKCHAFAKALHYKELEFIEEELVTKPSVDTIEALISINNQLQQPDAAIGILKHAQQHDKMNLKETWYEKLQRWEDALSAYEKREAAGAGNFEITMGKLRCLHALGEWDRLSQLAQENWIHAGHDARRYIAPLSVAAAWGLGQWEQMDEYISVMKSESPDKAFFNAIVALHRSQFEEAASYITRARDLLDTELTALVGESYNRAYSVAVRVQMLSELEEIITYKKAEDKPEVREMIKKTWVRRLKGCQRNVDVWQRMLRIRSLVISPRDNMEMWIKFANLCRKSGRISLAKKSLNLLLEDDENLDNSLVLKKTHPSIVYANLKFLWAVDDKRKALNSMQEFTSQLISDINVDPALFVQSTSVNTQKSQEEIQYYFHLLARCYHKQGQWQQEIENNWSEGSFDGVLQSYMYATQFDSKWYKAWHSWALANFEAVKFLEQSEEQIPSAAYEQYIIPAVKGFFKSIALSKGNLQDTLRLLNLWFKFGNNSNVINTLNVGISTVNIDIWLDVIPQLIARIHASSLSVRKSVHQLLSDVGRAHPQALVYPLTVAAKSQSSARQNAALAIMDSLKTHSPRLVEQARLVSHELIRAAILWHEQWHEGLEEASRLYFGDHNIEGMFAVLRPLHEMLERGPETLREISFQQAFGRDLVEARDCCIRFEQTGDISDLNQAWDLYYQVFKKIRKQLPQLTTLDLQYVSPKLLHVHDLELAVPGTYVSGKPVIRIVKFYPTFNVITSKQRPRRLSIKGSDGKDYQYVLKGHEDIRQDERVMQLFGLCNNLLLADPETFKRLLSIQRYPVIPLSPDSGLLGWVLDSDTLHVLIRDYRESRKILLNIEHRLIIQMAPDYDRLTLLQKVEVFEYALLSTTGQDLYRVLWLKSRSSEAWLNRRTNYSRTLAVMSMVGYILGLGDRHPSNLMLDRYTGNIIHIDFGDCFEVAMHREKFPEKIPFRLTRMLVNAMEVSGIEGTFRITCEHVMRVLRTNKESVMAVLEAFVYDPLINWRLAPAYSPSIDEKQSNEPNTLLGETIDGLHRKRLNEEGITLEERQKPEILNQRAITVLNRVSNKLTGRDFKPQQQLDVPSQVEKLILQATSIENLCLCYIGWCSFW |
| 5759 | sp|P29812|TYRP2\_MOUSE | MGLVGWGLLLGCLGCGILLRARAQFPRVCMTLDGVLNKECCPPLGPEATNICGFLEGRGQCAEVQTDTRPWSGPYILRNQDDREQWPRKFFNRTCKCTGNFAGYNCGGCKFGWTGPDCNRKKPAILRRNIHSLTAQEREQFLGALDLAKKSIHPDYVITTQHWLGLLGPNGTQPQIANCSVYDFFVWLHYYSVRDTLLGPGRPYKAIDFSHQGPAFVTWHRYHLLWLERELQRLTGNESFALPYWNFATGKNECDVCTDELLGAARQDDPTLISRNSRFSTWEIVCDSLDDYNRRVTLCNGTYEGLLRRNKVGRNNEKLPTLKNVQDCLSLQKFDSPPFFQNSTFSFRNALEGFDKADGTLDSQVMNLHNLAHSFLNGTNALPHSAANDPVFVVLHSFTDAIFDEWLKRNNPSTDAWPQELAPIGHNRMYNMVPFFPPVTNEELFLTAEQLGYNYAVDLSEEEAPVWSTTLSVVIGILGAFVLLLGLLAFLQYRRLRKGYAPLMETGLSSKRYTEEA |
| 5760 | sp|Q6AZZ1|TRI68\_HUMAN | MDPTALVEAIVEEVACPICMTFLREPMSIDCGHSFCHSCLSGLWEIPGESQNWGYTCPLCRAPVQPRNLRPNWQLANVVEKVRLLRLHPGMGLKGDLCERHGEKLKMFCKEDVLIMCEACSQSPEHEAHSVVPMEDVAWEYKWELHEALEHLKKEQEEAWKLEVGERKRTATWKIQVETRKQSIVWEFEKYQRLLEKKQPPHRQLGAEVAAALASLQREAAETMQKLELNHSELIQQSQVLWRMIAELKERSQRPVRWMLQDIQEVLNRSKSWSLQQPEPISLELKTDCRVLGLREILKTYAADVRLDPDTAYSRLIVSEDRKRVHYGDTNQKLPDNPERFYRYNIVLGSQCISSGRHYWEVEVGDRSEWGLGVCKQNVDRKEVVYLSPHYGFWVIRLRKGNEYRAGTDEYPILSLPVPPRRVGIFVDYEAHDISFYNVTDCGSHIFTFPRYPFPGRLLPYFSPCYSIGTNNTAPLAICSLDGED |
| 5761 | sp|P14294|TOP3\_ECOLI | MRLFIAEKPSLARAIADVLPKPHRKGDGFIECGNGQVVTWCIGHLLEQAQPDAYDSRYARWNLADLPIVPEKWQLQPRPSVTKQLNVIKRFLHEASEIVHAGDPDREGQLLVDEVLDYLQLAPEKRQQVQRCLINDLNPQAVERAIDRLRSNSEFVPLCVSALARARADWLYGINMTRAYTILGRNAGYQGVLSVGRVQTPVLGLVVRRDEEIENFVAKDFFEVKAHIVTPADERFTAIWQPSEACEPYQDEEGRLLHRPLAEHVVNRISGQPAIVTSYNDKRESESAPLPFSLSALQIEAAKRFGLSAQNVLDICQKLYETHKLITYPRSDCRYLPEEHFAGRHAVMNAISVHAPDLLPQPVVDPDIRNRCWDDKKVDAHHAIIPTARSSAINLTENEAKVYNLIARQYLMQFCPDAVFRKCVIELDIAKGKFVAKARFLAEAGWRTLLGSKERDEENDGTPLPVVAKGDELLCEKGEVVERQTQPPRHFTDATLLSAMTGIARFVQDKDLKKILRATDGLGTEATRAGIIELLFKRGFLTKKGRYIHSTDAGKALFHSLPEMATRPDMTAHWESVLTQISEKQCRYQDFMQPLVGTLYQLIDQAKRTPVRQFRGIVAPGSGGSADKKKAAPRKRSAKKSPPADEVGSGAIA |
| 5762 | sp|Q80X56|TRI69\_MOUSE | MEVSSRPPSNFDPGNYVEMSDPTTTHLPSKVVIQDLTTELHCPLCNDWFRDPLMLTCGHNFCQDCIQSFWKVHSKETFCPDCKMLCQYSNCTFNLVLEKLVEKIKKLPLLKGHPQCPEHGENLKLFSKPEGKMICFQCKDARLSMGQSKDFLQISEAVRFFTEELAIYQSQLQTTLKELQSLRTIQKDAISAYKDNKIQLQQNLSLEFLKLHQFLHNKEKDILNDLRDEGKLLNEEMEVNLNQIQEQCLVAKDMLATIQARMEQQNSFDFLTDITKLIESMEKGMKTIVPRQLIAKKLSLGRFKGPIQYIIWKEMQAILSPGPSQLTLDPKTAHPNLVLSKSQTSVCHCDVKQVMPDDPERFDSSVAVLGSKGFTSGKWYWEIEVGKKTKWTIGVVRESIIRKGSCPLTPEQGFWLLRLRNQTDLKALDLPSRSLTLGDLRRVGVYLDYEGGQVSFYNATTMTHLYTFSSVFQEKLFPYLCPCLNDGGENKEPLHIVHPQ |
| 5763 | sp|P07147|TYRP1\_MOUSE | MKSYNVLPLAYISLFLMLFYQVWAQFPRECANIEALRRGVCCPDLLPSSGPGTDPCGSSSGRGRCVAVIADSRPHSRHYPHDGKDDREAWPLRFFNRTCQCNDNFSGHNCGTCRPGWRGAACNQKILTVRRNLLDLSPEEKSHFVRALDMAKRTTHPQFVIATRRLEDILGPDGNTPQFENISVYNYFVWTHYYSVKKTFLGTGQESFGDVDFSHEGPAFLTWHRYHLLQLERDMQEMLQEPSFSLPYWNFATGKNVCDVCTDDLMGSRSNFDSTLISPNSVFSQWRVVCESLEEYDTLGTLCNSTEGGPIRRNPAGNVGRPAVQRLPEPQDVTQCLEVRVFDTPPFYSNSTDSFRNTVEGYSAPTGKYDPAVRSLHNLAHLFLNGTGGQTHLSPNDPIFVLLHTFTDAVFDEWLRRYNADISTFPLENAPIGHNRQYNMVPFWPPVTNTEMFVTAPDNLGYAYEVQWPGQEFTVSEIITIAVVAALLLVAAIFGVASCLIRSRSTKNEANQPLLTDHYQRYAEDYEELPNPNHSMV |
| 5764 | sp|Q15029|U5S1\_HUMAN | MDTDLYDEFGNYIGPELDSDEDDDELGRETKDLDEMDDDDDDDDVGDHDDDHPGMEVVLHEDKKYYPTAEEVYGPEVETIVQEEDTQPLTEPIIKPVKTKKFTLMEQTLPVTVYEMDFLADLMDNSELIRNVTLCGHLHHGKTCFVDCLIEQTHPEIRKRYDQDLCYTDILFTEQERGVGIKSTPVTVVLPDTKGKSYLFNIMDTPGHVNFSDEVTAGLRISDGVVLFIDAAEGVMLNTERLIKHAVQERLAVTVCINKIDRLILELKLPPTDAYYKLRHIVDEVNGLISMYSTDENLILSPLLGNVCFSSSQYSICFTLGSFAKIYADTFGDINYQEFAKRLWGDIYFNPKTRKFTKKAPTSSSQRSFVEFILEPLYKILAQVVGDVDTSLPRTLDELGIHLTKEELKLNIRPLLRLVCKKFFGEFTGFVDMCVQHIPSPKVGAKPKIEHTYTGGVDSDLGEAMSDCDPDGPLMCHTTKMYSTDDGVQFHAFGRVLSGTIHAGQPVKVLGENYTLEDEEDSQICTVGRLWISVARYHIEVNRVPAGNWVLIEGVDQPIVKTATITEPRGNEEAQIFRPLKFNTTSVIKIAVEPVNPSELPKMLDGLRKVNKSYPSLTTKVEESGEHVILGTGELYLDCVMHDLRKMYSEIDIKVADPVVTFCETVVETSSLKCFAETPNKKNKITMIAEPLEKGLAEDIENEVVQITWNRKKLGEFFQTKYDWDLLAARSIWAFGPDATGPNILVDDTLPSEVDKALLGSVKDSIVQGFQWGTREGPLCDELIRNVKFKILDAVVAQEPLHRGGGQIIPTARRVVYSAFLMATPRLMEPYYFVEVQAPADCVSAVYTVLARRRGHVTQDAPIPGSPLYTIKAFIPAIDSFGFETDLRTHTQGQAFSLSVFHHWQIVPGDPLDKSIVIRPLEPQPAPHLAREFMIKTRRRKGLSEDVSISKFFDDPMLLELAKQDVVLNYPM |
| 5765 | sp|P55146|TYRO3\_RAT | MALRRSMGRPGLRPLLLAGLASLLLPGSAAAGLKLMGAPVKMTVSQGQPVKLNCSVEGMDDPDIHWMKDGAVVQNASQVSISISEQNWIGLLSLKSAERSDAGLYWCQVKDGEETKISQSVWLTVEGVPFFTVEPKDLAVPPNVPFQLSCEAVGPPEPVTIFWWRGPTKVGGPASSPSVLNVTGVTQRTEFSCEAHNIKGLATSRPAIIRLQAPPAAPFNITVTTISSSNASVAWVPGADGLALLHSCTVQVAHAPGEWEALAVVVPVPPFTCLLRNLAPATNYSLRVRCANALGPSPYGDWVPFQTKGLAPARAPQNFHAIRTDSGLILEWEEVIPEDPGEGPLGPYKLSWVQENGTQDELMVEGTTANLTDWDPQKDLVLRVCASNAIGDGPWSQPLVVSSHDHAGRQGPPHSRTSWVPVVLGVLTALITAAALALILLRKRRKETRFGQAFDSVMARGEPAVHFRAARSFNRERPERIEATLDSLGISDELKEKLEDVLIPEQQFTLGRMLGKGEFGSVREAQLKQEDGSFVKVAVKMLKADIIASSDIEEFLREAACMKEFDHPHVAKLVGVSLRSRAKGRLPIPMVILPFMKHGDLHAFLLASRIGENPFNLPLQTLVRFMVDIACGMEYLSSRNFIHRDLAARNCMLAEDMTVCVADFGLSRKIYSGDYYRQGCASKLPVKWLALESLADNLYTVHSDVWAFGVTMWEIMTRGQTPYAGIENAEIYNYLISGNRLKQPPECMEEVYDLMYQCWSADPKQRPSFTCLRMELENILGHLSVLSTSQDPLYINIERAGQPAENGSPELPCGEQSSSEAGDGSGMGAIGGIPSDCRYIFSPGGLAESPGQLEQQPESPLNENQRLLLLQQGLLPHSSC |
| 5766 | sp|P83876|TXN4A\_HUMAN | MSYMLPHLHNGWQVDQAILSEEDRVVVIRFGHDWDPTCMKMDEVLYSIAEKVKNFAVIYLVDITEVPDFNKMYELYDPCTVMFFFRNKHIMIDLGTGNNNKINWAMEDKQEMVDIIETVYRGARKGRGLVVSPKDYSTKYRY |
| 5767 | sp|Q61241|TSSK1\_MOUSE | MDDAAVLKRRGYIMGINLGEGSYAKVKSAYSERLKFNVAVKIIDRKKAPSDFLEKFLPREIEILAMLNHRSIVKTYEIFETSDGKVYIVMELGVQGDLLEFIKTRGALQEDDARKKFHQLSSAIKYCHDLDVVHRDLKCENLLLDKDFNIKLSDFGFSKRCLRDDSGRLILSKTFCGSAAYAAPEVLQGIPYQPKVYDIWSLGVILYIMVCGSMPYDDSNIKKMLRIQKEHRVNFPRSKHLTGECKDLIYRMLQPDVNRRLHIDEILNHCWVQPKARGLSSGAINKEGESSRATEPSWIPEPGADKKSATKLEPREEARSEARSESKPQEDTLQVVRQSENVGLSSELNRDTEEGHPQQPSETHT |
| 5768 | sp|Q9JJX7|TYDP2\_MOUSE | MASGSSSDAAEPAGPAGRAASAPEAAQAEEDRVKRRRLQCLGFALVGGCDPTMVPSVLRENDWQTQKALSAYFELPENDQGWPRQPPTSFKSEAYVDLTNEDANDTTILEASPSGTPLEDSSTISFITWNIDGLDGCNLPERARGVCSCLALYSPDVVFLQEVIPPYCAYLKKRAASYTIITGNEEGYFTAILLKKGRVKFKSQEIIPFPNTKMMRNLLCVNVSLGGNEFCLMTSHLESTREHSAERIRQLKTVLGKMQEAPDSTTVIFAGDTNLRDQEVIKCGGLPDNVFDAWEFLGKPKHCQYTWDTKANNNLRIPAAYKHRFDRIFFRAEEGHLIPQSLDLVGLEKLDCGRFPSDHWGLLCTLNVVL |
| 5769 | sp|Q9C9Y6|TRXH9\_ARATH | MGSCVSKGKGDDDSVHNVEFSGGNVHLITTKESWDDKLAEADRDGKIVVANFSATWCGPCKIVAPFFIELSEKHSSLMFLLVDVDELSDFSSSWDIKATPTFFFLKNGQQIGKLVGANKPELQKKVTSIIDSVPESPQRP |
| 5770 | sp|P49427|UB2R1\_HUMAN | MARPLVPSSQKALLLELKGLQEEPVEGFRVTLVDEGDLYNWEVAIFGPPNTYYEGGYFKARLKFPIDYPYSPPAFRFLTKMWHPNIYETGDVCISILHPPVDDPQSGELPSERWNPTQNVRTILLSVISLLNEPNTFSPANVDASVMYRKWKESKGKDREYTDIIRKQVLGTKVDAERDGVKVPTTLAEYCVKTKAPAPDEGSDLFYDDYYEDGEVEEEADSCFGDDEDDSGTEES |
| 5771 | sp|A0A0R4IMY7|TRPM2\_DANRE | MDEAALEPTLVQTLAVSTAKGGRYLSLSPSFQRCSLASWIKENIKKKECCFYVEDGREGICKCGYPKVQHCDEAIKPEDYMGEQWDKHRHVRETPTDAFGDISFGGLGQKTGKYVRVSSDTSCENLYQLMTEQWKLRSPNLLISVTGGAKNFYIKTHLKDKFRRGLIKVAQTTGAWILTGGTHAGVMKHVGMAVRDYTLSSGSMEGQIVVIGVAPWGVIHNRSTLIHPEGRFPAYYSLDEQGQGRLSCLDINHTHFLLVDDGTQGHYGVEIELRARLEKLISKLSLGNRESGVTIPVVCVVLDGGPGTLNTIYNSMLNHTPCVVLEGSGRLADVIAHVASVPVSKVTMALINRLLKRFFMQEYKNFTELQIIEWTKKIQDILRMPHLLTVFRIDEDKNYDVDVAILQALLKASRSDEHAGRHCWERQLELAVAWNRVDIAESEIFTEESQWTSSDLHPAMFSALVGDKPEFVRLLLENGVCVREFLEREETLCELYSHLPSCFFLRKLAKRVQGGKMRRGQEPLPGSRKVCLSHVSEEVRHLLGSFTQPLYIASRYKPTKDDVRLKVPSKGALDLPCSGEEWSADTVWDPGRDLFLWAVVQNNRELAEIGWEQCRDCIAAALAASKILRKLAQESGEDDSEEATEMLELANHYEKQAIGVFSECHSWDAQRAQKLLIRISPSWGRSTCLWLALEAHDKSFIAHSGVQALLTQIWCGELSVDNPHWKVLLCMIFFPLIYTGFLTFRRDEDIQRQAERTEQQKLAMESVFAGQSDGKIKRHLRGFSQKSELKPLNCSSRLMSFLKSPQVKFYWNIASYFGFLWLFAVVLMIDFQTSPSWRELLLYVWLTSLVCEEIRQLYHDFDGSGFRRKAKMYIKDLWNILDVLSIVLFIAGLICRLQASDTVFYIGKVILCIDFIIFCLRLMAIFSISRTLGPKIIIVRRMMLDLFFFMFLLSIWVVAYGVAKQGILIENEERLNWIIRGAVYEPYITIFGNFPTNIDNTLFDISSCSVNASDPLKPKCPMLNADNTPVFPEWLTIMMLCVYLLFANILLLNLLIAIFNYTFQEVQDNTDTIWKFQRYELIKEYHSRPALPPPFILLSHLILFIRGVFLRDLPQRHKNFRQELEQTEEEELLSWEAYMKDNYLASTRQDESQSVEHRIHDTAEKVGAMSELLEREQEMVSATMAKRLARLEEQVSESAKALRWIIDALKSQGCKSKVQPPLMRSKSSDRDDGDSSGQETDDEEAPHMFARQLQYPDSTVRRFPVPEEKVSWEVNFSPYQPPVYNQQDSSESDTSALDKHRNPGGRTGIRGKGALNTLGPNHILHPIFTRWRDAEHKVLEFLAVWEDAEKRWALLGGPAQPDEPLAQVLERILGKKLNEKTKTLLKAGEEVYKGYVDDSRNTDNAWVETSIITLHCDKNTPLMADLNHMVESSLSSHQPLQWREVSSDACRCSYQREALRQIAHHHNTYF |
| 5772 | sp|P35129|UBC2\_CAEEL | MALKRIQKELQDLGRDPPAQCSAGPVGDDLFHWQATIMGPPESPYQGGVFFLTIHFPTDYPFKPPKVAFTTRIYHPNINSNGSICLDILRSQWSPALTISKVLLSICSLLCDPNPDDPLVPEIARIYKTDRERYNQLAREWTQKYAM |
| 5773 | sp|Q8BG60|TXNIP\_MOUSE | MVMFKKIKSFEVVFNDPEKVYGSGEKVAGRVIVEVCEVTRVKAVRILACGVAKVLWMQGSQQCKQTLDYLRYEDTLLLEEQPTAGENEMVIMRPGNKYEYKFGFELPQGPLGTSFKGKYGCVDYWVKAFLDRPSQPTQEAKKNFEVMDLVDVNTPDLMAPVSAKKEKKVSCMFIPDGRVSVSARIDRKGFCEGDDISIHADFENTCSRIVVPKAAIVARHTYLANGQTKVFTQKLSSVRGNHIISGTCASWRGKSLRVQKIRPSILGCNILKVEYSLLIYVSVPGSKKVILDLPLVIGSRSGLSSRTSSMASRTSSEMSWIDLNIPDTPEAPPCYMDIIPEDHRLESPTTPLLDDVDDSQDSPIFMYAPEFQFMPPPTYTEVDPCVLNNNNNNNNVQ |
| 5774 | sp|Q712K3|UB2R2\_HUMAN | MAQQQMTSSQKALMLELKSLQEEPVEGFRITLVDESDLYNWEVAIFGPPNTLYEGGYFKAHIKFPIDYPYSPPTFRFLTKMWHPNIYENGDVCISILHPPVDDPQSGELPSERWNPTQNVRTILLSVISLLNEPNTFSPANVDASVMFRKWRDSKGKDKEYAEIIRKQVSATKAEAEKDGVKVPTTLAEYCIKTKVPSNDNSSDLLYDDLYDDDIDDEDEEEEDADCYDDDDSGNEES |
| 5775 | sp|P63149|UBE2B\_RAT | MSTPARRRLMRDFKRLQEDPPVGVSGAPSENNIMQWNAVIFGPEGTPFEDGTFKLVIEFSEEYPNKPPTVRFLSKMFHPNVYADGSICLDILQNRWSPTYDVSSILTSIQSLLDEPNPNSPANSQAAQLYQENKREYEKRVSAIVEQSWNDS |
| 5776 | sp|Q5BKP2|UBP13\_MOUSE | MQRRGALFSVPGGGGKMAAGDLGELLVPHMPTIRVPRSGDRVYKNECAFSYDSPNSEGGLYVCMNTFLAFGREHVERHFRKTGQSVYMHLKRHMREKVRGASGGALPKRRNSKIFLDLDMDDDLNSDDYEYEDEAKLVIFPDHYEIALPNIEELPALVTIACDAVLSSKSPYRKQDPDTWENEVPVSKYANNLVQLDNGVRIPPSGWKCARCDLRENLWLNLTDGSVLCGKWFFDSSGGNGHALEHYRDMGYPLAVKLGTITPDGADVYSFQEEGPVSDPHLAKHLAHFGIDMLHTQGTENGLRDNDIKPRVSEWEVIQESGTKLKPMYGPGYTGLKNLGNSCYLSSVMQAIFSIPEFQRAYVGNLPRIFDYSPLDPTQDFNTQMTKLGHGLLSGQYSKPPVKSELIEQVMKEEHKPQQNGISPRMFKAFVSKSHPEFSSNRQQDAQEFFLHLVNLVERNRIGSENPSDVFRFLVEERIQCCQTRKVRYTERVDYLMQLPVAMEAATNKDELITYELMRREAEANRRPLPELVRAKIPFSACLQAFAEPDNVDDFWSSALQAKSAGVKTSRFASFPEYLVVQIKKFTFGLDWVPRKFDVSIDMPDLLDISHLRARGLQPGEEELPDISPPIVIPDDSKDRLMNQLIDPSDIDESSVMQLAEMGFPLEACRKAVYFTGNTGAEVAFNWIIVHMEEPDFAEPLAIPGYGGAGASVFGATGLDNQPPEEIVAIITSMGFQRNQAVQALQATNHNLERALDWIFSHPEFEEDSDFVIEMENNANANIVSEAKPEGPRVKDGSGMYELFAFISHMGTSTMSGHYVCHIKKEGRWVIYNDHKVCASERPPKDLGYMYFYRRIPS |
| 5777 | sp|A0A068J840|UGT1\_PANGI | MKSELIFLPAPAIGHLVGMVEMAKLFISRHENLSVTVLIAKFYMDTGVDNYNKSLLTNPTPRLTIVNLPETDPQNYMLKPRHAIFPSVIETQKTHVRDIISGMTQSESTQVVGLLADLLFINIMDIANEFNVPTYVYSPAGAGHLGLAFHLQTLNDKKQDVTEFRNSDTELLVPSFANPVPAEVLPSMYVDKEGGYDYLFSLFRRCRESKAIIINTFEELEPYAINSLRMDSMIPPIYPVGPILNLNGDGQNSDEAAVILGWLDDQPPSSVVFLCFGSYGSFQENQVKEIAMGLERSGHRFLWSLRPSIPKGETKLQLKYSNLKEILPVGFLDRTSCVGKVIGWAPQVAVLGHESVGGFLSHCGWNSTLESVWCGVPVATWPMYGEQQLNAFEMVKELGIAVEIEVDYKKDYFNMKNDFIVRAEEIETKIKKLMMDENNSEIRKKVKEMKEKSRAAMSENGSSYNSLAKLFEEIM |
| 5778 | sp|Q9BZL1|UBL5\_HUMAN | MIEVVCNDRLGKKVRVKCNTDDTIGDLKKLIAAQTGTRWNKIVLKKWYTIFKDHVSLGDYEIHDGMNLELYYQ |
| 5779 | sp|P07911|UROM\_HUMAN | MGQPSLTWMLMVVVASWFITTAATDTSEARWCSECHSNATCTEDEAVTTCTCQEGFTGDGLTCVDLDECAIPGAHNCSANSSCVNTPGSFSCVCPEGFRLSPGLGCTDVDECAEPGLSHCHALATCVNVVGSYLCVCPAGYRGDGWHCECSPGSCGPGLDCVPEGDALVCADPCQAHRTLDEYWRSTEYGEGYACDTDLRGWYRFVGQGGARMAETCVPVLRCNTAAPMWLNGTHPSSDEGIVSRKACAHWSGHCCLWDASVQVKACAGGYYVYNLTAPPECHLAYCTDPSSVEGTCEECSIDEDCKSNNGRWHCQCKQDFNITDISLLEHRLECGANDMKVSLGKCQLKSLGFDKVFMYLSDSRCSGFNDRDNRDWVSVVTPARDGPCGTVLTRNETHATYSNTLYLADEIIIRDLNIKINFACSYPLDMKVSLKTALQPMVSALNIRVGGTGMFTVRMALFQTPSYTQPYQGSSVTLSTEAFLYVGTMLDGGDLSRFALLMTNCYATPSSNATDPLKYFIIQDRCPHTRDSTIQVVENGESSQGRFSVQMFRFAGNYDLVYLHCEVYLCDTMNEKCKPTCSGTRFRSGSVIDQSRVLNLGPITRKGVQATVSRAFSSLGLLKVWLPLLLSATLTLTFQ |
| 5780 | sp|P23202|URE2\_YEAST | MMNNNGNQVSNLSNALRQVNIGNRNSNTTTDQSNINFEFSTGVNNNNNNNSSSNNNNVQNNNSGRNGSQNNDNENNIKNTLEQHRQQQQAFSDMSHVEYSRITKFFQEQPLEGYTLFSHRSAPNGFKVAIVLSELGFHYNTIFLDFNLGEHRAPEFVSVNPNARVPALIDHGMDNLSIWESGAILLHLVNKYYKETGNPLLWSDDLADQSQINAWLFFQTSGHAPMIGQALHFRYFHSQKIASAVERYTDEVRRVYGVVEMALAERREALVMELDTENAAAYSAGTTPMSQSRFFDYPVWLVGDKLTIADLAFVPWNNVVDRIGINIKIEFPEVYKWTKHMMRRPAVIKALRGE |
| 5781 | sp|Q26998|UPP\_TOXGO | MAQVPASGKLLVDPRYSTNDQEESILQDIITRFPNVVLMKQTAQLRAMMTIIRDKETPKEEFVFYADRLIRLLIEEALNELPFEKKEVTTPLDVSYHGVSFYSKICGVSIVRAGESMESGLRAVCRGCRIGKILIQRDETTAEPKLIYEKLPADIRDRWVMLLDPMCATAGSVCKAIEVLLRLGVKEERIIFVNILAAPQGIERVFKEYPKVRMVTAAVDICLNSRYYIVPGIGDFGDRYFGTM |
| 5782 | sp|Q9Y2K6|UBP20\_HUMAN | MGDSRDLCPHLDSIGEVTKEDLLLKSKGTCQSCGVTGPNLWACLQVACPYVGCGESFADHSTIHAQAKKHNLTVNLTTFRLWCYACEKEVFLEQRLAAPLLGSSSKFSEQDSPPPSHPLKAVPIAVADEGESESEDDDLKPRGLTGMKNLGNSCYMNAALQALSNCPPLTQFFLECGGLVRTDKKPALCKSYQKLVSEVWHKKRPSYVVPTSLSHGIKLVNPMFRGYAQQDTQEFLRCLMDQLHEELKEPVVATVALTEARDSDSSDTDEKREGDRSPSEDEFLSCDSSSDRGEGDGQGRGGGSSQAETELLIPDEAGRAISEKERMKDRKFSWGQQRTNSEQVDEDADVDTAMAALDDQPAEAQPPSPRSSSPCRTPEPDNDAHLRSSSRPCSPVHHHEGHAKLSSSPPRASPVRMAPSYVLKKAQVLSAGSRRRKEQRYRSVISDIFDGSILSLVQCLTCDRVSTTVETFQDLSLPIPGKEDLAKLHSAIYQNVPAKPGACGDSYAAQGWLAFIVEYIRRFVVSCTPSWFWGPVVTLEDCLAAFFAADELKGDNMYSCERCKKLRNGVKYCKVLRLPEILCIHLKRFRHEVMYSFKINSHVSFPLEGLDLRPFLAKECTSQITTYDLLSVICHHGTAGSGHYIAYCQNVINGQWYEFDDQYVTEVHETVVQNAEGYVLFYRKSSEEAMRERQQVVSLAAMREPSLLRFYVSREWLNKFNTFAEPGPITNQTFLCSHGGIPPHKYHYIDDLVVILPQNVWEHLYNRFGGGPAVNHLYVCSICQVEIEALAKRRRIEIDTFIKLNKAFQAEESPGVIYCISMQWFREWEAFVKGKDNEPPGPIDNSRIAQVKGSGHVQLKQGADYGQISEETWTYLNSLYGGGPEIAIRQSVAQPLGPENLHGEQKIEAETRAV |
| 5783 | sp|P22310|UD14\_HUMAN | MARGLQVPLPRLATGLLLLLSVQPWAESGKVLVVPTDGSPWLSMREALRELHARGHQAVVLTPEVNMHIKEEKFFTLTAYAVPWTQKEFDRVTLGYTQGFFETEHLLKRYSRSMAIMNNVSLALHRCCVELLHNEALIRHLNATSFDVVLTDPVNLCGAVLAKYLSIPAVFFWRYIPCDLDFKGTQCPNPSSYIPKLLTTNSDHMTFLQRVKNMLYPLALSYICHTFSAPYASLASELFQREVSVVDLVSYASVWLFRGDFVMDYPRPIMPNMVFIGGINCANGKPLSQEFEAYINASGEHGIVVFSLGSMVSEIPEKKAMAIADALGKIPQTVLWRYTGTRPSNLANNTILVKWLPQNDLLGHPMTRAFITHAGSHGVYESICNGVPMVMMPLFGDQMDNAKRMETKGAGVTLNVLEMTSEDLENALKAVINDKSYKENIMRLSSLHKDRPVEPLDLAVFWVEFVMRHKGAPHLRPAAHDLTWYQYHSLDVIGFLLAVVLTVAFITFKCCAYGYRKCLGKKGRVKKAHKSKTH |
| 5784 | sp|P08067|UCRI\_YEAST | MLGIRSSVKTCFKPMSLTSKRLISQSLLASKSTYRTPNFDDVLKENNDADKGRSYAYFMVGAMGLLSSAGAKSTVETFISSMTATADVLAMAKVEVNLAAIPLGKNVVVKWQGKPVFIRHRTPHEIQEANSVDMSALKDPQTDADRVKDPQWLIMLGICTHLGCVPIGEAGDFGGWFCPCHGSHYDISGRIRKGPAPLNLEIPAYEFDGDKVIVG |
| 5785 | sp|Q8IYT8|ULK2\_HUMAN | MEVVGDFEYSKRDLVGHGAFAVVFRGRHRQKTDWEVAIKSINKKNLSKSQILLGKEIKILKELQHENIVALYDVQELPNSVFLVMEYCNGGDLADYLQAKGTLSEDTIRVFLHQIAAAMRILHSKGIIHRDLKPQNILLSYANRRKSSVSGIRIKIADFGFARYLHSNMMAATLCGSPMYMAPEVIMSQHYDAKADLWSIGTVIYQCLVGKPPFQANSPQDLRMFYEKNRSLMPSIPRETSPYLANLLLGLLQRNQKDRMDFEAFFSHPFLEQGPVKKSCPVPVPMYSGSVSGSSCGSSPSCRFASPPSLPDMQHIQEENLSSPPLGPPNYLQVSKDSASTSSKNSSCDTDDFVLVPHNISSDHSCDMPVGTAGRRASNEFLVCGGQCQPTVSPHSETAPIPVPTQIRNYQRIEQNLTSTASSGTNVHGSPRSAVVRRSNTSPMGFLRPGSCSPVPADTAQTVGRRLSTGSSRPYSPSPLVGTIPEQFSQCCCGHPQGHDSRSRNSSGSPVPQAQSPQSLLSGARLQSAPTLTDIYQNKQKLRKQHSDPVCPSHTGAGYSYSPQPSRPGSLGTSPTKHLGSSPRSSDWFFKTPLPTIIGSPTKTTAPFKIPKTQASSNLLALVTRHGPAEEQSKDGNEPRECAHCLLVQGSERQRAEQQSKAVFGRSVSTGKLSDQQGKTPICRHQGSTDSLNTERPMDIAPAGACGGVLAPPAGTAASSKAVLFTVGSPPHSAAAPTCTHMFLRTRTTSVGPSNSGGSLCAMSGRVCVGSPPGPGFGSSPPGAEAAPSLRYVPYGASPPSLEGLITFEAPELPEETLMEREHTDTLRHLNVMLMFTECVLDLTAMRGGNPELCTSAVSLYQIQESVVVDQISQLSKDWGRVEQLVLYMKAAQLLAASLHLAKAQIKSGKLSPSTAVKQVVKNLNERYKFCITMCKKLTEKLNRFFSDKQRFIDEINSVTAEKLIYNCAVEMVQSAALDEMFQQTEDIVYRYHKAALLLEGLSRILQDPADIENVHKYKCSIERRLSALCHSTATV |
| 5786 | sp|Q9Z1N9|UN13B\_MOUSE | MSLLCVRVKRAKFQGSPDKFNTYVTLKVQNVKSTTVAVRGDQPSWEQDFMFEISRLDLGLSVEVWNKGLIWDTMVGTVWIALKTIRQSDEEGPGEWSTLEAETLMKDDEICGTKNPTPHKILLDTRFELPFDIPEEEARYWTYKLEQINALADDNEYSSQEESQRKPLPTAAAQCCHWTYLGWGEHQTFEDPDSAVDDRDSDYRSETSNSAPPPYHTTTQPNASVHQFPVPVRLPQQLFLQGSSHDSCNDSMQSYDLDYPERRALSPTSSSRYGSSCNVSQGSSLLSELDQYHEQDDDGRERDSIHSSHSYGSLSKDGQAGLGEQEKALEVTCESEKEKTGESKEMRDDATIHPPSDLVLHKDHVLGPQESLPEETASSPFTQARAHWFRAVTKVRLQLQEISDDGDPSLPQWLPEGPAGGLYGIDSMPDLRRKKPLPLVSDLSLVQSRKAGITSAMATRTSLKDEELKSHVYKKTLQALIYPISCTTPHNFEVWSATTPTYCYECEGLLWGLARQGMRCSECGVKCHEKCQDLLNADCLQRAAEKSSKHGAEDRTQNIIMAMKDRMKIRERNKPEIFEVIRDVFTVSKVAHVQQMKTVKQSVLDGTSKWSAKITITVVCAQGLQAKDKTGSSDPYVTVQVGKTKKRTKTIFGNLNPVWEEKFHFECHNSSDRIKVRVWDEDDDIKSRVKQRLKRESDDFLGQTIIEVRTLSGEMDVWYNLEKRTDKSAVSGAIRLQISVEIKGEEKVAPYHVQYTCLHENLFHYLTDIQGSGGVWIPEARGDDAWKVYFDETAQEIVDEFAMRYGIESIYQAMTHFACLSSKYMCPGVPAVMSTLLANINAYYAHTTASTNVSASDRFAASNFGKERFVKLLDQLHNSLRIDLSTYRNNFPAGSPERLQDLKSTVDLLTSITFFRMKVQELQSPPRASQVVKDCVKACLNSTYEYIFNNCHDLYSHQYQLQEQPLEEPGPSIRNLDFWPKLITLIVSIIEEDKNSYTPVLSQFPQELNVGKVSAEVMWHLFAQDMKYALEEHEKDRLCKSADYMNLHFKVKWLHNEYVRDLPALQGQVPEYPAWFEQFVLQWLDENEDVSLEFLRGALERDKKDGFQQTSEHALFSCSVVDVFTQLNQSFEIIRKLECPDPNILAHYMRRFAKTIGKVLMQYADILSKNFPAYCTKERLPCILMNNMQQLRVQLEKMFEAMGGKELDSEAADSLKELQVKLNTVLDELSMVFGNSFQVRIDECVRQMADILGQVRGTGNASPNARASVAQDADSVLRPLMDFLDGNLTLFATVCEKTVLKRVLKELWRVVMNTMERVIVLPPLTDQTGTQLILTAAKELSQLSKLKDHMVREETRNLTPKQCAVLDLALDTIKQYFHAGGNGLKKTFLEKSPDLQSLRYALSLYTQTTDTLIKTFVRSQTAQGAGVDDPVGEVSIQVDLFTHPGTGEHKVTVKVVAANDLKWQTAGMFRPFVEVTMVGPHQSDKKRKFTTKSKSNNWTPKYNETFHFLLGNEEGPEAYELQICVKDYCFAREDRVIGLAVMPLRDVAAKGSCACWCPLGRKIHMDETGMTILRILSQRSNDEVAREFVKLKSESRSTEEGS |
| 5787 | sp|Q969E3|UCN3\_HUMAN | MLMPVHFLLLLLLLLGGPRTGLPHKFYKAKPIFSCLNTALSEAEKGQWEDASLLSKRSFHYLRSRDASSGEEEEGKEKKTFPISGARGGARGTRYRYVSQAQPRGKPRQDTAKSPHRTKFTLSLDVPTNIMNLLFNIAKAKNLRAQAAANAHLMAQIGRKK |
| 5788 | sp|Q26261|UNC5\_CAEEL | MDEITITTQPKSGYVIRNKPLRLQCRANHATKIRYKCSSKWIDDSRIEKLIGTDSTSGVGYIDASVDISRIDVDTSGHVDAFQCQCYASGDDDQDVVASDVATVHLAYMRKHFLKSPVAQRVQEGTTLQLPCQAPESDPKAELTWYKDGVVVQPDANVIRASDGSLIMSAARLSDSGNYTCEATNVANSRKTDPVEVQIYVDGGWSEWSPWIGTCHVDCPLLRQHAHRIRDPHDVLPHQRRTRTCNNPAPLNDGEYCKGEEEMTRSCKVPCKLDGGWSSWSDWSACSSSCHRYRTRACTVPPPMNGGQPCFGDDLMTQECPAQLCTADSSRIVISDTAVYGSVASIFIVASFILAILAMFCCKRGNSKKSKPLKPQKMNSEKAGGIYYSEPPGVRRLLLEHQHGTLLGEKISSCSQYFEPPPLPHSTTLRSGKSAFSGYSSTRNAGSRAALIQECSSSSSGSGGKRTMLRTSSSNCSDDDNYATLYDYMEDKSVLGLDTSQNIVAAQIDSNGARLSLSKSGARLIVPELAVEGEKMLYLAVSDTLTDQPHLKPIESALSPVIVIGQCDVSMSAHDNILRRPVVVSFRHCASTFPRDNWQFTLYADEGSGWQKAVTIGEENLNTNMFVQFEQPGKKNDGFGWCHVMTYSLARLMLAGHPRRNSLSAAKRVHLAVFGPTEMSAYRRPFELRVYCVPETGAAMESVWKQEDGSRLLCESNDFILNEKGNLCICIEDVIPGFSCDGPEVVEISETQHRFVAQNGLHCSLKFRPKEINGSQFSTRVIVYQKASSTEPMVMEVSNEPELYDATSEEREKGSVCVEFRLPFGVKDELARLLDMPNESHSDWRGLAKKLHYDRYLQFFASFPDCSPTSLLLDLWEASSSGSARAVPDLLQTLRVMGRPDAVMVLERFLSAFPQIVSP |
| 5789 | sp|Q16763|UBE2S\_HUMAN | MNSNVENLPPHIIRLVYKEVTTLTADPPDGIKVFPNEEDLTDLQVTIEGPEGTPYAGGLFRMKLLLGKDFPASPPKGYFLTKIFHPNVGANGEICVNVLKRDWTAELGIRHVLLTIKCLLIHPNPESALNEEAGRLLLENYEEYAARARLLTEIHGGAGGPSGRAEAGRALASGTEASSTDPGAPGGPGGAEGPMAKKHAGERDKKLAAKKKTDKKRALRRL |
| 5790 | sp|Q06561|UNC52\_CAEEL | MKRSSTVLAALLALLLVATNDAARHRKYRQTYQDIDSDDDDTSDVQITVFPSEKEVRDGRDVSFECRARTSDNSVYPTVRWARVGGPLPSSAHDSGGRLTINPVQLSDAGTYICVSDYNGNTVEARATLSVVSYGPQEVSNGLRQAGQCMADEKACGNNECVKNDYVCDGEPDCRDRSDEANCPAISRTCEPNEFKCNNNKCVQKMWLCDGDDDCGDNSDELNCNAKPSSSDCKPTEFQCHDRRQCVPSSFHCDGTNDCHDGSDEVGCVQPTVVDPPQTNLQVPRGTTFSLTCKAVAVPEPYINWRLNWGPVCEPPRCLQTSEGGYGTLTIHDAQPVDQGAYTCEAINVKGRVLATPDCIVRVVDDPRPQPPQPPTAPPQRASCDTRGAVTPYPNNYGTCECKSQVTGPNCDQCKPGAFHLSEKSPEGCLKCFCFGVSNDCRSSGHYRTKDRLMFAGDAEGVTISDIEERTIDRNTPFSFFKTGYLTFDGTTDGVAKYWRLPQRFLGDKVTAYGGKMEFEIEFSGSGHHSSEPMVVLKGNQNILVHRVRNQEHVLRSDSPVRITVETYETNYEQLNGAAATREDLLMVLADLDAFLIRATHVAHQTSTSLGDVSWEIAVDRYTPDGLALEVEQCVCPPGYLGTSCEDCAPGYERSGYGPYLGTCVPIQPRHQQCGPGAVAPTAPAQGQCQCKASVIGPNCDRCAPNSFGLAPTNPQGCIPCFCSGVTQQCSASSYRRTSVSIDYARGDRDQLELTTSDSRQPYSPQTRAELSGQAIEFRSFEEARGQTLYWKLPEKFLGDKVTSYGGTLEYTFKFSGNGNSDQSADVILRGNDIALQYKHREPFYADRENKVQIKIIETSWQRVDGQQATREHLLMTLADLDTLLIKSTYNDDCTDSQLLSANLEFAEPYGQGLTAAEVEQCICPPGYVGTSCEDCAPGYSRTGGGLYLGLCEKCECNGHASQCDKEYGYCLDCQHNTEGDQCERCKPGFVGDARRGTPNDCQPEATRAPCHCNNHSPRGCDSFGRCLLCEHNTEGTHCERCKKGYYGDATKGSPYDCTPCPCPGASDCYLDNEGQVACRICPAGLQGRLCNECAPGYTRSNKPAGRVCEPIGQVTNEDITFVQKPHEVLRVRIMEPKRQIALPGDRVHWICQVTGYTTEKIHVEWTKVGEMSLPPNAKAYDGYLVLKGVEAENAGQYRCTATTITQYATDDALLTISKRISGRPPQPVIDPPHLVVNEGEPAAFRCWVPGIPDCQITWHREQLGGPLPHGVYQTGNALKIPQSQLHHAGRYICSAANQYGTGQSPPAVLEVKKPVIPPKVDPIRQTVDRDQPARFKCWVPGNSNVQLRWSRPGGAPLPSGVQEQQGILHIPRASDQEVGQYVCTATDPSDNTPLQSEPVQLNIRDPAPPQRGAAPQIDPPNQTVNVNDPAQFRCWVPGQPRAQLKWSRKDGRPLPNGILERDGFLRIDKSQLHDAGEYECTSTEPDGSTQLSPPARLNVNQPQAIQPQVDPPVQTVNEGEPSRIRCWVPGHPNIQLQFVKRGRRPLPAHARFSQGNLEIPRTLKSDEDEYICIATDPTTNRPVESNPARVIVKSPIRPIIDPAEQTVPEGSPFKIRCYVPGHPSVQLTFRRVSGQLNEDADENNGLLAVQRAELTDEGDYICTARDPDTGAPIDSTPATVHVTNAAAPPQVEARPPQHPVITPQTQTIPEGDPARIQCTVPGNPSAAQHLSFERVDGKGLPFGSSDDRGVLTIPSTQLQDAGEYVCLYSPENSPPVKTNPSTLNVTPEGTPPRPVATPPLLSVAPGSPARFNCVAHSDTPARIRWGFREENGPLPEHVNQDGDDIVISEAGDRNVGEYVCSATNDFGTGVADPVRLEVTEDQEPPTAVVEPRTWNGKPGERHQFRCITTGSPTPKITWTGPNGSPLPHDVTPLEPNILDFSNGRSELNGDYTCTASNPIGEASDHGNVNIGPSLTVKTNPPGPKLIVTVGEPLQVKCEAFGAPGDPEPEVEWLHDPGPERGDLPDDFKPVTISEQFIRHPNVGLGNAGVYTCKGSSAHATATKNIYIEVVEPSRIATVSILGGSSQWFDQGEKGELICTATGSSLVDRLEWEKVDDQLPTDVEEHNEPGLLHFPSFKNSYAGEYRCNGYRNNEIIASAAVHVHSSANADDEPKVEIEPPRVRVVSQGDNIVLKCSVQGAENGEHFKWALLRGGSLVRQLGTEPTLEITKADPSNDFGVYRCNVEDNNGLVIGSAFTAVSVGQQDKSHAQIVKFDDKSDASFTCPIYSVPGSKVDWTYENGDLPSKAVPNGNKIEIKEFDDASAGTYVCKVSFDGNVVEGFVTAQMFVPDTIIQVLLEVSSESPQIGDRAWFDCKVTGDPSAVISWTKEGNDDLPPNAQVTGGRLLFTDLKEDNAGVYRCVAKTKAGPLQTRTVLNVGSGKQDQVTFTVADSLPVVYTVGQPAYLSCIGKTETKPNQSVVWTKEEGDLPSGSRVEQGVLMLPSVHRDDEGSYTCEIVKEENPVFSTVDLQIDDFIPVIDGEPIELPPLSDEEIVNLDIEITLNTANPKGIIFETKRINSGDLLATPYDTIHHEAKITDYGTVLYEFDIGNGRQIVETTNPINPNEWNVIKIKNDKNQVTIQLNDESATIRQHTNPLPSLSTGVNRPVFIGGRHEPTNEANDFRGIISQVVLSGHNVGLGDARIPSSVVKYDACASTNLCLNGANCRNANNHHGFSCECAEEFHGEYCQWRSNSCHDESCNTGICLDNEESWQCVCPLGTTGLRCEEKTEIPQPLGFTSDTSFLAVKRPVKFESIKMKLRPQADSDEHILMYFASDYGSNTKQYTSLSLIANQVVLTVRRPDKEVQKIRSETLEAGELIDVAVRQAGNALVMTVDGNQVSTIETDTLKPGTEIFIGGLPPGLNSPDDVVEQSFQGCVYEILINSQDVDLQNLSSSGDISSCEESQFPVEEDDTTTTTTTEEPEAVIEEPTTEEPTTTEEPITEEPTEEPTTTEEPTTTEEPTTTTEEPTTTTTEEPYHIYETSRDDDPEIIIPVETTTTSTTTTSTTEEPEAEPALVLPTDPVEENDVSDEEEEISTISTVSPDNGLDSDSDYSEGTLPPDSSSEEIVVGDVYSTQEPNNICANSTCGMNGQCVPRNMTHYTCECKLYYDGPTCSLFKPIEHAARFDGDAFIELSSDEFPHLTSEKDEIVAFKFKTEQQNGVLLWQGQRPTVQQMEDYISVGIVNGHLHFSYELGGGAAHLISEERVDDGKEHSVRFERKGREGQMRIDNYREVDGRSTGILAMLNVDGNIFVGGVPDISKATGGLFSNNFVGCIADVELNGVKLDLMATAIDGKNVKPCDEWMHRKRWLYRRRVR |
| 5791 | sp|Q80U87|UBP8\_MOUSE | MPAVASVPKELYLSSSLKDLNKKTEVKPEKTSTKNYIHSAQKIFKTAEECRLDRDEERAYVLYMKYVAVYNLIKKRPDFKQQQDYYLSILGPANIKKAIEEAERLSESLKLRYEEAEVRKQLEEKDRREEEQLQQQKRQEMGREDSGAAAKRSVENLLDSKTKTQRINGEKSEGAAAAERGAITAKELYTMMMDKNTSLIIMDARKIQDYQHSCILDSLSVPEEAISPGVTASWIEANLSDDSKDTWKKRGSVDYVVLLDWFSSAKDLLLGTTLRSLKDALFKWESKTVLRHEPLVLEGGYENWLLCYPQFTTNAKVTPPPRSRAEEVSVSLDFTYPSLEEPVPSKLPTQMPPPPIETNEKALLVTDQDEKLRLSTQPALAGPGAAPRAEASPIIQPAPATKSVPQVDRTKKPSVKLPEDHRIKSENTDQSGRVLSDRSTKPVFPSPTTMLTDEEKARIHQETALLMEKNKQEKELWDKQQKEQKEKLRREEQERKAGKTQDADERDSTENQHKAKDGQEKKDSKQTKTEDRELSADGAQEATGTQRQSKSEHEASDAKVPVEGKRCPTSEAQKRPADVSPASVSGELNAGKAQREPLTRARSEEMGRIVPGLPLGWAKFLDPITGTFRYYHSPTNTVHMYPPEMAPSSAPPSTPPTHKVKPQVPAERDREPSKLKRSYSSPDITQALQEEEKRRPAVTPMVNRENKPPCYPKAEISRLSASQIRNLNPVFGGSGPALTGLRNLGNTCYMNSILQCLCNAPHLADYFNRNCYQDDINRSNLLGHKGEVAEEFGIIMKALWTGQYRYISPKDFKVTIGKINDQFAGSSQQDSQELLLFLMDGLHEDLNKADNRKRHKEENNEHLDDLQAAEHAWQKHKQLNESIIVALFQGQFKSTVQCLTCRRRSRTFEAFMYLSLPLASTSKCTLQDCLRLFSKEEKLTDNNRFYCSHCRARRDSLKKIEIWKLPPVLLVHLKRFSYDGRWKQKLQTSVDFPLENLDLSQYVIGPKNSLKKYNLFSVSNHYGGLDGGHYTAYCKNAARQRWFKFDDHEVSDISVSSVRSSAAYILFYTSLGPRITDVAT |
| 5792 | sp|Q86VN1|VPS36\_HUMAN | MDRFVWTSGLLEINETLVIQQRGVRIYDGEEKIKFDAGTLLLSTHRLIWRDQKNHECCMAILLSQIVFIEEQAAGIGKSAKIVVHLHPAPPNKEPGPFQSSKNSYIKLSFKEHGQIEFYRRLSEEMTQRRWENMPVSQSLQTNRGPQPGRIRAVGIVGIERKLEEKRKETDKNISEAFEDLSKLMIKAKEMVELSKSIANKIKDKQGDITEDETIRFKSYLLSMGIANPVTRETYGSGTQYHMQLAKQLAGILQVPLEERGGIMSLTEVYCLVNRARGMELLSPEDLVNACKMLEALKLPLRLRVFDSGVMVIELQSHKEEEMVASALETVSEKGSLTSEEFAKLVGMSVLLAKERLLLAEKMGHLCRDDSVEGLRFYPNLFMTQS |
| 5793 | sp|Q70EK9|UBP51\_HUMAN | MAQVRETSLPSGSGVRWISGGGGGASPEEAVEKAGKMEEAAAGATKASSRREAEEMKLEPLQEREPAPEENLTWSSSGGDEKVLPSIPLRCHSSSSPVCPRRKPRPRPQPRARSRSQPGLSAPPPPPARPPPPPPPPPPPAPRPRAWRGSRRRSRPGSRPQTRRSCSGDLDGSGDPGGLGDWLLEVEFGQGPTGCSHVESFKVGKNWQKNLRLIYQRFVWSGTPETRKRKAKSCICHVCSTHMNRLHSCLSCVFFGCFTEKHIHKHAETKQHHLAVDLYHGVIYCFMCKDYVYDKDIEQIAKETKEKILRLLTSTSTDVSHQQFMTSGFEDKQSTCETKEQEPKLVKPKKKRRKKSVYTVGLRGLINLGNTCFMNCIVQALTHIPLLKDFFLSDKHKCIMTSPSLCLVCEMSSLFHAMYSGSRTPHIPYKLLHLIWIHAEHLAGYRQQDAHEFLIAILDVLHRHSKDDSGGQEANNPNCCNCIIDQIFTGGLQSDVTCQACHSVSTTIDPCWDISLDLPGSCATFDSQNPERADSTVSRDDHIPGIPSLTDCLQWFTRPEHLGSSAKIKCNSCQSYQESTKQLTMKKLPIVACFHLKRFEHVGKQRRKINTFISFPLELDMTPFLASTKESRMKEGQPPTDCVPNENKYSLFAVINHHGTLESGHYTSFIRQQKDQWFSCDDAIITKATIEDLLYSEGYLLFYHKQGLEKD |
| 5794 | sp|Q5U349|UBP2\_RAT | MSQLSSTLKRYTESSRYTDAPYAKSGYGTYTPSSYGANLAASFLEKEKLGFKPVSPTSFLPRPRTYGPSSILDCDRGRPLLRSDITGGSKRSESQTRGNERPSGSGLNGGSGFPYGVTSNSLSYLPMNARDQGVTLGQKKSNSQSDLARDFSSLRTSDSYRTSDGYRASDGFRIDPGNLGRSPMLARTRKELCALQGLYQAASRSEYLTDYLENYGRKGSAPQVLTQAPPSRVPEVLSPTYRPSGRYTLWEKNKGQASGPSRSTSPGRDTMNSKSAQGLAGLRNLGNTCFMNSILQCLSNTRELRDYCLQRLYMRDLGHTSSAHTALMEEFAKLIQTIWTSSPNDVVSPSEFKTQIQRYAPRFVGYNQQDAQEFLRFLLDGLHNEVNRVAARPKPSPESLDHLPDEEKGRQMWRKYLEREDSRIGDLFVGQLKSSLTCTDCGYCSTVFDPFWDLSLPIAKRGYPEVTLMDCMRLFTKEDVLDGDEKPTCCRCRARKRCIKKFSVQRFPKILVLHLKRFSESRIRTSKLTTFVNFPLRDLDLREFASENTNHAVYNLYAVSNHSGTTMGGHYTAYCRSPVTGEWHTFNDSSVTPMSSSQVRTSDAYLLFYELASPPSRM |
| 5795 | sp|Q9D659|VISTA\_MOUSE | MGVPAVPEASSPRWGTLLLAIFLAASRGLVAAFKVTTPYSLYVCPEGQNATLTCRILGPVSKGHDVTIYKTWYLSSRGEVQMCKEHRPIRNFTLQHLQHHGSHLKANASHDQPQKHGLELASDHHGNFSITLRNVTPRDSGLYCCLVIELKNHHPEQRFYGSMELQVQAGKGSGSTCMASNEQDSDSITAAALATGACIVGILCLPLILLLVYKQRQVASHRRAQELVRMDSNTQGIENPGFETTPPFQGMPEAKTRPPLSYVAQRQPSESGRYLLSDPSTPLSPPGPGDVFFPSLDPVPDSPNSEAI |
| 5796 | sp|P36116|VPS51\_YEAST | MAEQISHKKSLRVSSLNKDRRLLLREFYNLENEPNKGRQEARIGEKASEAHSGEEQVTDVNIDTEANTEKPVKDDELSATEEDLKEGSEDAEEEIKNLPFKRLVQIHNKLLGKETETNNSIKNTIYENYYDLIKVNDLLKEITNANEDQINKLKQTVESLIKEL |
| 5797 | sp|P12473|VP4\_ROTRH | MASLIYRQLLTNSYTVDLSDEIQEIGSTKTQNVTINLGPFAQTGYAPVNWGPGETNDSTTVEPVLDGPYQPTSFNPPVDYWMLLAPTAAGVVVEGTNNTDRWLATILVEPNVTSETRSYTLFGTQEQITIANASQTQWKFIDVVKTTQNGSYSQYGPLQSTPKLYAVMKHNGKIYTYNGETPNVTTKYYSTTNYDSVNMTAFCDFYIIPREEESTCTEYINNGLPPIQNTRNIVPLALSARNIISHRAQANEDIVVSKTSLWKEMQYNRDITIRFKFASSIVKSGGLGYKWSEISFKPANYQYTYTRDGEDVTAHTTCSVNGMNDFNFNGGSLPTDFIISRYEVIKENSYVYVDYWDDSQAFRNMVYVRSLAANLNSVICTGGDYSFALPVGQWPVMTGGAVSLHSAGVTLSTQFTDFVSFNSLRFRFRLTVEEPSFSITRTRVGGLYGLPAAYPNNGKEYYEVAGRLSLISLVPSNDDYQTPITNSVTVRQDLERQLGELREEFNALSQEIAMSQLIYLALLPLDMFSMFSGIKSTIDAAKSMATSVMKKFKKSGLANSVSTLTDSLSDAASSISRGASIRSVGSSASAWTDVSTQITDVSSSVSSISTQTSTISRRLRLKEMATQTEGMNFDDISAAVLKTKIDRSTQISPNTLPDIVTEASEKFIPNRAYRVINNDEVFEAGTDGRYFAYRVETFDEIPFDVQKFADLVTDSPVISAIIDFKTLKNLNDNYGISRQQAFNLLRSDPRVLREFINQDNPIIRNRIEQLIMQCRL |
| 5798 | sp|P34561|VPS53\_CAEEL | MEEPTTSELKLSDNVMNEISDMCITEYCKPNMSLMAQINELFPTEQSLTQLDSIIASVEGEIGELDNELAYLVETNANVSERGEEALKHAQDAMIELEKSIGSIRERTKSSDEIVREMTRDIKQLDIAKRNLTASITTLHHLHILLTGVESLGAWVDKKDYSSIARQLPAILNVLQLFDAYKESDQIANLSGQLDKLKASLTIQLAKDLKNAFQTGQLSDRITDMCRVAAALEGNVKENFVKWFIEQQLSEYVIIYADNEEGAWLDKVDDRYKWFVRKLTDFERAGLSNIFPADWHMGRRLTSEFCTVTRDILYRIMTRRRQDLDWKLLGHAIQHTKMFEALLTKRFPEKDGISFEKAIWSVFDTFLDVFINAQEKTLNEFLDTCASKIRSGEEKPSRESSTHAVPFPSSADMFLLLKKVITESSKLSSEPDALIRDVIGVVRVCLRGYATSCLVAFLPSLGSQQSGAANLFSLIREEIAYPRLTPDQQFLVCCILATADWCAETSIQLQEKLSQRIPGVDISQETEAFYSITNQSLQVLVQDVESTCDAALQSISKVNWTAVDCVGDESPFIGSMRAHLRQAVPLIRDMLSDRRKYFAHFCLKLATQLAHKFVGSLFRCRTISTHGAEQLLLDTHSLKTFLLSVPSIDSIINSKPPTAYVTSVNAALTKAEMILKVVMCSLETVDEFVEQYIKLLPASDAAEMQKVLEMKGVKRQEHSAVLNAYRLKIGASGSDPIQQSNSLTSRIGGALPTVGSAASVSEAFNAVVSMAADGLSDQAVTSSIDKLKRFERLVKRQL |
| 5799 | sp|P35968|VGFR2\_HUMAN | MQSKVLLAVALWLCVETRAASVGLPSVSLDLPRLSIQKDILTIKANTTLQITCRGQRDLDWLWPNNQSGSEQRVEVTECSDGLFCKTLTIPKVIGNDTGAYKCFYRETDLASVIYVYVQDYRSPFIASVSDQHGVVYITENKNKTVVIPCLGSISNLNVSLCARYPEKRFVPDGNRISWDSKKGFTIPSYMISYAGMVFCEAKINDESYQSIMYIVVVVGYRIYDVVLSPSHGIELSVGEKLVLNCTARTELNVGIDFNWEYPSSKHQHKKLVNRDLKTQSGSEMKKFLSTLTIDGVTRSDQGLYTCAASSGLMTKKNSTFVRVHEKPFVAFGSGMESLVEATVGERVRIPAKYLGYPPPEIKWYKNGIPLESNHTIKAGHVLTIMEVSERDTGNYTVILTNPISKEKQSHVVSLVVYVPPQIGEKSLISPVDSYQYGTTQTLTCTVYAIPPPHHIHWYWQLEEECANEPSQAVSVTNPYPCEEWRSVEDFQGGNKIEVNKNQFALIEGKNKTVSTLVIQAANVSALYKCEAVNKVGRGERVISFHVTRGPEITLQPDMQPTEQESVSLWCTADRSTFENLTWYKLGPQPLPIHVGELPTPVCKNLDTLWKLNATMFSNSTNDILIMELKNASLQDQGDYVCLAQDRKTKKRHCVVRQLTVLERVAPTITGNLENQTTSIGESIEVSCTASGNPPPQIMWFKDNETLVEDSGIVLKDGNRNLTIRRVRKEDEGLYTCQACSVLGCAKVEAFFIIEGAQEKTNLEIIILVGTAVIAMFFWLLLVIILRTVKRANGGELKTGYLSIVMDPDELPLDEHCERLPYDASKWEFPRDRLKLGKPLGRGAFGQVIEADAFGIDKTATCRTVAVKMLKEGATHSEHRALMSELKILIHIGHHLNVVNLLGACTKPGGPLMVIVEFCKFGNLSTYLRSKRNEFVPYKTKGARFRQGKDYVGAIPVDLKRRLDSITSSQSSASSGFVEEKSLSDVEEEEAPEDLYKDFLTLEHLICYSFQVAKGMEFLASRKCIHRDLAARNILLSEKNVVKICDFGLARDIYKDPDYVRKGDARLPLKWMAPETIFDRVYTIQSDVWSFGVLLWEIFSLGASPYPGVKIDEEFCRRLKEGTRMRAPDYTTPEMYQTMLDCWHGEPSQRPTFSELVEHLGNLLQANAQQDGKDYIVLPISETLSMEEDSGLSLPTSPVSCMEEEEVCDPKFHYDNTAGISQYLQNSKRKSRPVSVKTFEDIPLEEPEVKVIPDDNQTDSGMVLASEELKTLEDRTKLSPSFGGMVPSKSRESVASEGSNQTSGYQSGYHSDDTDTTVYSSEEAELLKLIEIGVQTGSTAQILQPDSGTTLSSPPV |
| 5800 | sp|O35633|VIAAT\_MOUSE | MATLLRSKLTNVATSVSNKSQAKVSGMFARMGFQAATDEEAVGFAHCDDLDFEHRQGLQMDILKSEGEPCGDEGAEAPVEGDIHYQRGGAPLPPSGSKDQAVGAGGEFGGHDKPKITAWEAGWNVTNAIQGMFVLGLPYAILHGGYLGLFLIIFAAVVCCYTGKILIACLYEENEDGEVVRVRDSYVAIANACCAPRFPTLGGRVVNVAQIIELVMTCILYVVVSGNLMYNSFPGLPVSQKSWSIIATAVLLPCAFLKNLKAVSKFSLLCTLAHFVINILVIAYCLSRARDWAWEKVKFYIDVKKFPISIGIIVFSYTSQIFLPSLEGNMQQPSEFHCMMNWTHIAACVLKGLFALVAYLTWADETKEVITDNLPGSIRAVVNLFLVAKALLSYPLPFFAAVEVLEKSLFQEGSRAFFPACYGGDGRLKSWGLTLRCALVVFTLLMAIYVPHFALLMGLTGSLTGAGLCFLLPSLFHLRLLWRKLLWHQVFFDVAIFVIGGICSVSGFVHSLEGLIEAYRTNAED |
| 5801 | sp|P87377|VEGTA\_XENLA | MRNCCRECGLSAGHLEPEASSNCASDVKSSPDMDSVSSQDSLYLPNTVGASLEDQDLWSQFHQEGTEMIITKSGRRMFPQCKIRLFGLHPYAKYMLLVDFVPLDNFRYKWNKNQWEAAGKAEPHPPCRTYVHPDSPAPGAHWMKDPICFQKLKLTNNTLDQQGHIILHSMHRYKPRFHVVQSDDMYNSPWGLVQVFSFPETEFTSVTAYQNEKITKLKINHNPFAKGFREQERSHKRDDVLKILQQSPSKRQKRKKWEDSPEADISDFPKAICVKEESIMDPAGVYQNWVSDHEANQGLTPHSPESEGANQEQQVPTSSSNFYNKSHYRRSSQHLSSPFELGEPSSRRLTPDIATVPDSDPDSLAVFHVIPTQNSAPERTCSMNFSMEAPMKQPLRGAMYSPYGADQWLVPAQGQYRPVGYTAYPTDLSTQGAVAHPHSAMSDWSQYSLFPYSCW |
| 5802 | sp|Q62666|VACHT\_RAT | MEPTAPTGQARAAATKLSEAVGAALQEPQRQRRLVLVIVCVALLLDNMLYMVIVPIVPDYIAHMRGGSEGPTLVSEVWEPTLPPPTLANASAYLANTSASPTAAGSARSILRPRYPTESEDVKIGVLFASKAILQLLVNPLSGPFIDRMSYDVPLLIGLGVMFASTVMFAFAEDYATLFAARSLQGLGSAFADTSGIAMIADKYPEEPERSRALGVALAFISFGSLVAPPFGGILYEFAGKRVPFLVLAAVSLFDALLLLAVAKPFSAAARARANLPVGTPIHRLMLDPYIAVVAGALTTCNIPLAFLEPTIATWMKHTMAASEWEMGMVWLPAFVPHVLGVYLTVRLAARYPHLQWLYGALGLAVIGVSSCVVPACRSFAPLVVSLCGLCFGIALVDTALLPTLAFLVDVRHVSVYGSVYAIADISYSVAYALGPIVAGHIVHSLGFEQLSLGMGLANLLYAPVLLLLRNVGLLTRSRSERDVLLDEPPQGLYDAVRLREVQGKDGGEPCSPPGPFDGCEDDYNYYSRS |
| 5803 | sp|Q08AM6|VAC14\_HUMAN | MNPEKDFAPLTPNIVRALNDKLYEKRKVAALEIEKLVREFVAQNNTVQIKHVIQTLSQEFALSQHPHSRKGGLIGLAACSIALGKDSGLYLKELIEPVLTCFNDADSRLRYYACEALYNIVKVARGAVLPHFNVLFDGLSKLAADPDPNVKSGSELLDRLLKDIVTESNKFDLVSFIPLLRERIYSNNQYARQFIISWILVLESVPDINLLDYLPEILDGLFQILGDNGKEIRKMCEVVLGEFLKEIKKNPSSVKFAEMANILVIHCQTTDDLIQLTAMCWMREFIQLAGRVMLPYSSGILTAVLPCLAYDDRKKSIKEVANVCNQSLMKLVTPEDDELDELRPGQRQAEPTPDDALPKQEGTASGGPDGSCDSSFSSGISVFTAASTERAPVTLHLDGIVQVLNCHLSDTAIGMMTRIAVLKWLYHLYIKTPRKMFRHTDSLFPILLQTLSDESDEVILKDLEVLAEIASSPAGQTDDPGPLDGPDLQASHSELQVPTPGRAGLLNTSGTKGLECSPSTPTMNSYFYKFMINLLKRFSSERKLLEVRGPFIIRQLCLLLNAENIFHSMADILLREEDLKFASTMVHALNTILLTSTELFQLRNQLKDLKTLESQNLFCCLYRSWCHNPVTTVSLCFLTQNYRHAYDLIQKFGDLEVTVDFLAEVDKLVQLIECPIFTYLRLQLLDVKNNPYLIKALYGLLMLLPQSSAFQLLSHRLQCVPNPELLQTEDSLKAAPKSQKADSPSIDYAELLQHFEKVQNKHLEVRHQRSGRGDHLDRRVVL |
| 5804 | sp|Q1L673|VDRB\_DANRE | MESAVSTSTQVPDEFDRNVPRICGVCGDKATGFHFNAMTCEGCKGFFRRSMKRKASFTCPFNGSCTITKDNRRHCQACRLKRCLDIGMMKEFILTDEEVQRKKELIQRRKDEEAHREAQKPRLSDEQRNIIDTLVDAHHKTYDDSYSDFSRFRPPVREGPVTRSASRAASLHSLSDASSDSFSHSPESGDRKMNLSNLLMMYQEQGLSSSPDSKEEDGSSLSMLPHLADLVSYSIQKVIGFAKMIPGFRELTAEDQIALLKSSAIEVIMLRSNQSFSLEDMSWSCGGPEFKYCVNDVTKAGHTLELLEPLVKFQVGLKKLNLHEEEHVLLMAICLLSPDRPGVQDHVRVEALQDKVSEVLQAYIRAHHPGGRLLYAKMIQKLADLRSLNEEHSKQYRSLSFQPEHSMQLTPLVLEVFGGQVT |
| 5805 | sp|O75379|VAMP4\_HUMAN | MPPKFKRHLNDDDVTGSVKSERRNLLEDDSDEEEDFFLRGPSGPRFGPRNDKIKHVQNQVDEVIDVMQENITKVIERGERLDELQDKSESLSDNATAFSNRSKQLRRQMWWRGCKIKAIMALVAAILLLVIIILIVMKYRT |
| 5806 | sp|Q9LUL4|SRF7\_ARATH | MTENRVVLALLILCIVGFEPSFIHGATDSSDTSALNIMFSSMNSPGQLSQWTASGGDPCGQNWKGITCSGSRVTQIKLPSLGLSGSLGFMLDKLTSVTEFDMSNNNLGGDLPYQLPPNLERLNLANNQFTGSAQYSISMMAPLKYLNLAHNQLKQLAIDFTKLTSLSILDLSSNAFIGSLPNTCSSLTSAKSIYLQNNQFSGTIDILATLPLENLNIANNRFTGWIPDSLKGINLQKDGNLLNSGPAPPPPPGTPPISKSSPTPKSGNRGNRSNGDSSNSKDSSKSGLGAGGVAGIVISLIVVTAVIAFFLIKRKRSKRSSSTDIEKTDNNINQPIILASNDFHQENKSVQNPPLVETKKLDTSLSMNLRPPPSERHKSFDDDDSTMRKPIVAKKAAVVVPSNVNTYTVSDLQVATNSFSVDNLLGEGTFGRVYRAQFEDGKVLAVKKIDSSALPTDTADDFTEIVSKIAHLDHENVTKLDGYCSEHGQHLVVYEFHRNGSLHDFLHLAEEESKPLIWNPRVKIALGTARALEYLHEVCSPSIVHKNIKSANILLDSELNPHLSDSGLASFLPTANELLNQNDEGYSAPETSMSGQYSLKSDVYSFGVVMLELLTGRKPFDSTRSRSEQSLVRWATPQLHDIDALGKMVDPALKGLYPVKSLSRFADVIALCVQPEPEFRPPMSEVVQALVVLVQRANMSKRTVGVGSGSSGVNDYM |
| 5807 | sp|K9N5Q8|SPIKE\_MERS1 | MIHSVFLLMFLLTPTESYVDVGPDSVKSACIEVDIQQTFFDKTWPRPIDVSKADGIIYPQGRTYSNITITYQGLFPYQGDHGDMYVYSAGHATGTTPQKLFVANYSQDVKQFANGFVVRIGAAANSTGTVIISPSTSATIRKIYPAFMLGSSVGNFSDGKMGRFFNHTLVLLPDGCGTLLRAFYCILEPRSGNHCPAGNSYTSFATYHTPATDCSDGNYNRNASLNSFKEYFNLRNCTFMYTYNITEDEILEWFGITQTAQGVHLFSSRYVDLYGGNMFQFATLPVYDTIKYYSIIPHSIRSIQSDRKAWAAFYVYKLQPLTFLLDFSVDGYIRRAIDCGFNDLSQLHCSYESFDVESGVYSVSSFEAKPSGSVVEQAEGVECDFSPLLSGTPPQVYNFKRLVFTNCNYNLTKLLSLFSVNDFTCSQISPAAIASNCYSSLILDYFSYPLSMKSDLSVSSAGPISQFNYKQSFSNPTCLILATVPHNLTTITKPLKYSYINKCSRFLSDDRTEVPQLVNANQYSPCVSIVPSTVWEDGDYYRKQLSPLEGGGWLVASGSTVAMTEQLQMGFGITVQYGTDTNSVCPKLEFANDTKIASQLGNCVEYSLYGVSGRGVFQNCTAVGVRQQRFVYDAYQNLVGYYSDDGNYYCLRACVSVPVSVIYDKETKTHATLFGSVACEHISSTMSQYSRSTRSMLKRRDSTYGPLQTPVGCVLGLVNSSLFVEDCKLPLGQSLCALPDTPSTLTPRSVRSVPGEMRLASIAFNHPIQVDQLNSSYFKLSIPTNFSFGVTQEYIQTTIQKVTVDCKQYVCNGFQKCEQLLREYGQFCSKINQALHGANLRQDDSVRNLFASVKSSQSSPIIPGFGGDFNLTLLEPVSISTGSRSARSAIEDLLFDKVTIADPGYMQGYDDCMQQGPASARDLICAQYVAGYKVLPPLMDVNMEAAYTSSLLGSIAGVGWTAGLSSFAAIPFAQSIFYRLNGVGITQQVLSENQKLIANKFNQALGAMQTGFTTTNEAFHKVQDAVNNNAQALSKLASELSNTFGAISASIGDIIQRLDVLEQDAQIDRLINGRLTTLNAFVAQQLVRSESAALSAQLAKDKVNECVKAQSKRSGFCGQGTHIVSFVVNAPNGLYFMHVGYYPSNHIEVVSAYGLCDAANPTNCIAPVNGYFIKTNNTRIVDEWSYTGSSFYAPEPITSLNTKYVAPQVTYQNISTNLPPPLLGNSTGIDFQDELDEFFKNVSTSIPNFGSLTQINTTLLDLTYEMLSLQQVVKALNESYIDLKELGNYTYYNKWPWYIWLGFIAGLVALALCVFFILCCTGCGTNCMGKLKCNRCCDRYEEYDLEPHKVHVH |
| 5808 | sp|Q9HAU4|SMUF2\_HUMAN | MSNPGGRRNGPVKLRLTVLCAKNLVKKDFFRLPDPFAKVVVDGSGQCHSTDTVKNTLDPKWNQHYDLYIGKSDSVTISVWNHKKIHKKQGAGFLGCVRLLSNAINRLKDTGYQRLDLCKLGPNDNDTVRGQIVVSLQSRDRIGTGGQVVDCSRLFDNDLPDGWEERRTASGRIQYLNHITRTTQWERPTRPASEYSSPGRPLSCFVDENTPISGTNGATCGQSSDPRLAERRVRSQRHRNYMSRTHLHTPPDLPEGYEQRTTQQGQVYFLHTQTGVSTWHDPRVPRDLSNINCEELGPLPPGWEIRNTATGRVYFVDHNNRTTQFTDPRLSANLHLVLNRQNQLKDQQQQQVVSLCPDDTECLTVPRYKRDLVQKLKILRQELSQQQPQAGHCRIEVSREEIFEESYRQVMKMRPKDLWKRLMIKFRGEEGLDYGGVAREWLYLLSHEMLNPYYGLFQYSRDDIYTLQINPDSAVNPEHLSYFHFVGRIMGMAVFHGHYIDGGFTLPFYKQLLGKSITLDDMELVDPDLHNSLVWILENDITGVLDHTFCVEHNAYGEIIQHELKPNGKSIPVNEENKKEYVRLYVNWRFLRGIEAQFLALQKGFNEVIPQHLLKTFDEKELELIICGLGKIDVNDWKVNTRLKHCTPDSNIVKWFWKAVEFFDEERRARLLQFVTGSSRVPLQGFKALQGAAGPRLFTIHQIDACTNNLPKAHTCFNRIDIPPYESYEKLYEKLLTAIEETCGFAVE |
| 5809 | sp|O14216|SLD2\_SCHPO | MHDESRTKQISSIKALLKKWEHEYVHTNNCKPSKEDVKKQPEIALLYKQYYELKRESSITPKKAKTKVDFKFQTPTKQRAETEANESPKAPRNDYLQVTPKTVDKSLLGPTPQLSRRVLNLLEDMSPIADSHVDQISDIKHNTSEISSTMIPTTPSKNPEPVAQHTPTVLETPSSYRLQVYTSPNLLRVNAPCRKSLSEMLRELKDIEDDYGSNEEKILQEFESFSSSSSESLVDRDISQPMKKKIKRQNRLVKLPPSMNLSKSHLEGLPEIDEDAENGIDDNEDTTASKDSSPFLDLQSERQNKKIMRNGLVIGKQVSQNYSSYKLKKRKFRRHRS |
| 5810 | sp|O94813|SLIT2\_HUMAN | MRGVGWQMLSLSLGLVLAILNKVAPQACPAQCSCSGSTVDCHGLALRSVPRNIPRNTERLDLNGNNITRITKTDFAGLRHLRVLQLMENKISTIERGAFQDLKELERLRLNRNHLQLFPELLFLGTAKLYRLDLSENQIQAIPRKAFRGAVDIKNLQLDYNQISCIEDGAFRALRDLEVLTLNNNNITRLSVASFNHMPKLRTFRLHSNNLYCDCHLAWLSDWLRQRPRVGLYTQCMGPSHLRGHNVAEVQKREFVCSGHQSFMAPSCSVLHCPAACTCSNNIVDCRGKGLTEIPTNLPETITEIRLEQNTIKVIPPGAFSPYKKLRRIDLSNNQISELAPDAFQGLRSLNSLVLYGNKITELPKSLFEGLFSLQLLLLNANKINCLRVDAFQDLHNLNLLSLYDNKLQTIAKGTFSPLRAIQTMHLAQNPFICDCHLKWLADYLHTNPIETSGARCTSPRRLANKRIGQIKSKKFRCSAKEQYFIPGTEDYRSKLSGDCFADLACPEKCRCEGTTVDCSNQKLNKIPEHIPQYTAELRLNNNEFTVLEATGIFKKLPQLRKINFSNNKITDIEEGAFEGASGVNEILLTSNRLENVQHKMFKGLESLKTLMLRSNRITCVGNDSFIGLSSVRLLSLYDNQITTVAPGAFDTLHSLSTLNLLANPFNCNCYLAWLGEWLRKKRIVTGNPRCQKPYFLKEIPIQDVAIQDFTCDDGNDDNSCSPLSRCPTECTCLDTVVRCSNKGLKVLPKGIPRDVTELYLDGNQFTLVPKELSNYKHLTLIDLSNNRISTLSNQSFSNMTQLLTLILSYNRLRCIPPRTFDGLKSLRLLSLHGNDISVVPEGAFNDLSALSHLAIGANPLYCDCNMQWLSDWVKSEYKEPGIARCAGPGEMADKLLLTTPSKKFTCQGPVDVNILAKCNPCLSNPCKNDGTCNSDPVDFYRCTCPYGFKGQDCDVPIHACISNPCKHGGTCHLKEGEEDGFWCICADGFEGENCEVNVDDCEDNDCENNSTCVDGINNYTCLCPPEYTGELCEEKLDFCAQDLNPCQHDSKCILTPKGFKCDCTPGYVGEHCDIDFDDCQDNKCKNGAHCTDAVNGYTCICPEGYSGLFCEFSPPMVLPRTSPCDNFDCQNGAQCIVRINEPICQCLPGYQGEKCEKLVSVNFINKESYLQIPSAKVRPQTNITLQIATDEDSGILLYKGDKDHIAVELYRGRVRASYDTGSHPASAIYSVETINDGNFHIVELLALDQSLSLSVDGGNPKIITNLSKQSTLNFDSPLYVGGMPGKSNVASLRQAPGQNGTSFHGCIRNLYINSELQDFQKVPMQTGILPGCEPCHKKVCAHGTCQPSSQAGFTCECQEGWMGPLCDQRTNDPCLGNKCVHGTCLPINAFSYSCKCLEGHGGVLCDEEEDLFNPCQAIKCKHGKCRLSGLGQPYCECSSGYTGDSCDREISCRGERIRDYYQKQQGYAACQTTKKVSRLECRGGCAGGQCCGPLRSKRRKYSFECTDGSSFVDEVEKVVKCGCTRCVS |
| 5811 | sp|Q8BHK6|SLAF7\_MOUSE | MARFSTYIIFTSVLCQLTVTAASGTLKKVAGALDGSVTFTLNITEIKVDYVVWTFNTFFLAMVKKDGVTSQSSNKERIVFPDGLYSMKLSQLKKNDSGAYRAEIYSTSSQASLIQEYVLHVYKHLSRPKVTIDRQSNKNGTCVINLTCSTDQDGENVTYSWKAVGQGDNQFHDGATLSIAWRSGEKDQALTCMARNPVSNSFSTPVFPQKLCEDAATDLTSLRGILYILCFSAVLILFAVLLTIFHTTWIKKGKGCEEDKKRVDRHQEMPDLCPHLEENADYDTIPYTEKRRPEEDAPNTFYSTVQIPKVVKSPSSLPAKPLVPRSLSFENVI |
| 5812 | sp|O60264|SMCA5\_HUMAN | MSSAAEPPPPPPPESAPSKPAASIASGGSNSSNKGGPEGVAAQAVASAASAGPADAEMEEIFDDASPGKQKEIQEPDPTYEEKMQTDRANRFEYLLKQTELFAHFIQPAAQKTPTSPLKMKPGRPRIKKDEKQNLLSVGDYRHRRTEQEEDEELLTESSKATNVCTRFEDSPSYVKWGKLRDYQVRGLNWLISLYENGINGILADEMGLGKTLQTISLLGYMKHYRNIPGPHMVLVPKSTLHNWMSEFKRWVPTLRSVCLIGDKEQRAAFVRDVLLPGEWDVCVTSYEMLIKEKSVFKKFNWRYLVIDEAHRIKNEKSKLSEIVREFKTTNRLLLTGTPLQNNLHELWSLLNFLLPDVFNSADDFDSWFDTNNCLGDQKLVERLHMVLRPFLLRRIKADVEKSLPPKKEVKIYVGLSKMQREWYTRILMKDIDILNSAGKMDKMRLLNILMQLRKCCNHPYLFDGAEPGPPYTTDMHLVTNSGKMVVLDKLLPKLKEQGSRVLIFSQMTRVLDILEDYCMWRNYEYCRLDGQTPHDERQDSINAYNEPNSTKFVFMLSTRAGGLGINLATADVVILYDSDWNPQVDLQAMDRAHRIGQTKTVRVFRFITDNTVEERIVERAEMKLRLDSIVIQQGRLVDQNLNKIGKDEMLQMIRHGATHVFASKESEITDEDIDGILERGAKKTAEMNEKLSKMGESSLRNFTMDTESSVYNFEGEDYREKQKIAFTEWIEPPKRERKANYAVDAYFREALRVSEPKAPKAPRPPKQPNVQDFQFFPPRLFELLEKEILFYRKTIGYKVPRNPELPNAAQAQKEEQLKIDEAESLNDEELEEKEKLLTQGFTNWNKRDFNQFIKANEKWGRDDIENIAREVEGKTPEEVIEYSAVFWERCNELQDIEKIMAQIERGEARIQRRISIKKALDTKIGRYKAPFHQLRISYGTNKGKNYTEEEDRFLICMLHKLGFDKENVYDELRQCIRNSPQFRFDWFLKSRTAMELQRRCNTLITLIERENMELEEKEKAEKKKRGPKPSTQKRKMDGAPDGRGRKKKLKL |
| 5813 | sp|A7TZE6|SKIT1\_MOUSE | MGSTGLCFYGHCIVMFLLQMVTASSEPFIVNGLEGPVLASLGGNLELSCQLSPPQQAQHMEIRWFRNLYTEPVHLYRDGKDMFGEIISKYVERTELLKDGIGEGKVTLRIFNVTVDDDGSYHCVFKDGDFYEEHITEVKITAINLQVQIHVHPPNTKGVIVECHSGGWFPRPLMQWRDRRGEVIPAASKSHSQGRDKLFNMKISLLISESFFQKVICCLQNPLTGQEERTSVILSDAFFSWNRIWKMILGIILSMMVVSIFVFSCLLHHEHKVCKWKWDAPWIKGLLIMTSSMVTVVLVMVYLHMKQRVPVSDVHFELDTLWVEDISVILCSLMVPATMLVSYTYFRLKDWCQHNHAQRVFTSN |
| 5814 | sp|P41823|SY65\_APLCA | MDSLLARVKRAADADALNPAQEGVTGGPDAAGLPDVSTSSPGGGGAGDKLKEKMDEYKDKLINEIENLPIWAIVLIIAGSLLFLVCCVYCVCRRSCRKRKKKEGKKGLKGAVDLKSVQLLGNSYKEKVQPDLDELPVNMEDNEDAESTKSEVKLGKLQFSLDYDFQKGELSVNVIQAADLPGMDMSGTSDPYVKVYLLPDKKKKYETKVHRKTLNPVFNESFTFKVPYAEVGSKILTFAVYDFDRFSKHDQIGQVQVPLNSIDLGRVVEDWKDLQSPDTESEKENKLGDICFSLRYVPTAGKLTVVILEAKNLKKMDVGGLSDPYVKIALLQGTKRLKKKKTTIKKNTLNPYFNESFGFEVPFEQIQKVTLIITVVDYDRIGTSEPIGRCVLGCNSSGTELRHWSDMLANPRRPIAQWHTLQEVPEKN |
| 5815 | sp|O00186|STXB3\_HUMAN | MAPPVAERGLKSVVWQKIKATVFDDCKKEGEWKIMLLDEFTTKLLASCCKMTDLLEEGITVVENIYKNREPVRQMKALYFITPTSKSVDCFLHDFASKSENKYKAAYIYFTDFCPDNLFNKIKASCSKSIRRCKEINISFIPHESQVYTLDVPDAFYYCYSPDPGNAKGKDAIMETMADQIVTVCATLDENPGVRYKSKPLDNASKLAQLVEKKLEDYYKIDEKSLIKGKTHSQLLIIDRGFDPVSTVLHELTFQAMAYDLLPIENDTYKYKTDGKEKEAILEEEDDLWVRIRHRHIAVVLEEIPKLMKEISSTKKATEGKTSLSALTQLMKKMPHFRKQITKQVVHLNLAEDCMNKFKLNIEKLCKTEQDLALGTDAEGQKVKDSMRVLLPVLLNKNHDNCDKIRAILLYIFSINGTTEENLDRLIQNVKIENESDMIRNWSYLGVPIVPQSQQGKPLRKDRSAEETFQLSRWTPFIKDIMEDAIDNRLDSKEWPYCSQCPAVWNGSGAVSARQKPRANYLEDRKNGSKLIVFVIGGITYSEVRCAYEVSQAHKSCEVIIGSTHVLTPKKLLDDIKMLNKPKDKVSLIKDE |
| 5816 | sp|Q99469|STAC\_HUMAN | MIPPSSPREDGVDGLPKEAVGAEQPPSPASTSSQESKLQKLKRSLSFKTKSLRSKSADNFFQRTNSEDMKLQAHMVAEISPSSSPLPAPGSLTSTPARAGLHPGGKAHAFQEYIFKKPTFCDVCNHMIVGTNAKHGLRCKACKMSIHHKCTDGLAPQRCMGKLPKGFRRYYSSPLLIHEQFGCIKEVMPIACGNKVDPVYETLRFGTSLAQRTKKGSSGSGSDSPHRTSTSDLVEVPEEANGPGGGYDLRKRSNSVFTYPENGTDDFRDPAKNINHQGSLSKDPLQMNTYVALYKFVPQENEDLEMRPGDIITLLEDSNEDWWKGKIQDRIGFFPANFVQRLQQNEKIFRCVRTFIGCKEQGQITLKENQICVSSEEEQDGFIRVLSGKKKGLIPLDVLENI |
| 5817 | sp|Q9LF05|STAD3\_ARATH | MSMALLLTSPAMKQKPAVITSPRRGSSPSRRLRVSCVTTNPARKKNETCNHFRPIKEVNNQLTHTIPQEKLEIFKSMENWAEQKLLPYLKPVEDSWQPQDFLPAPENDDEFYDRVKEIRERTKEIPDDYFVVLVGDMITEEALPTYQTTLNTLDGVKDETGGSLSPWAVWIRAWTAEENRHGDLLNKYLYLTGRVDMRHVEKTIQYLIGSGMDSKFENNPYNGFIYTSFQERATFISHGNTARLATTYGDVTLAKICGTIAADEKRHETAYTKIVEKLFEIDPDGSVQALASMMKKRITMPAHLMHDGRDNDLFDHYAAVAQRIGVYTAADYAGILEFLLRRWKVESLGLGLSGEGRRAQEYLCTLPQRIKRLEERANDRVKLVSKPSVSFSWVFGRDVKL |
| 5818 | sp|Q9JI10|STK3\_MOUSE | MEQPPASKSKLKKLSEDSLTKQPEEVFDVLEKLGEGSYGSVFKAIHKESGQVVAIKQVPVESDLQEIIKEISIMQQCDSPYVVKYYGSYFKNTDLWIVMEYCGAGSVSDIIRLRNKTLTEDEIATILKSTLKGLEYLHFMRKIHRDIKAGNILLNTEGHAKLADFGVAGQLTDTMAKRNTVIGTPFWMAPEVIQEIGYNCVADIWSLGITSIEMAEGKPPYADIHPMRAIFMIPTNPPPTFRKPELWSDDFTDFVKKCLVKSPEQRATATQLLQHPFIKNAKPVSILRDLIAEAMEIKAKRHEEQQRELEEEEENSDEDELDSHTMVKTSSESVGTMRATSTMSEGAQTMIEHNSTMLESDLGTMVINSEEEEEEEEEEEEDGTMKRNATSPQVQRPSFMDYFDKQDFKNKSHENCDQSMREPGPMSNSVFPDNWRVPQDGDFDFLKNLSLEELQMRLKALDPMMEREIEELHQRYSAKRQPILDAMDAKKRRQQNF |
| 5819 | sp|Q07084|SSK1\_YEAST | MLNSALLWKVWLRIDNSTDEVNQPIAVQFDEIDTVDDLKSRFFQKLSSTRWREINDNASIAIGLYAPKFDNQADNTSSNNTNDNSCRSKSNGAGSGANLSVNSNTKSSVSPTAGSFGLSKDLAKDRNVLQHPKPTQKRGALYDAFAAVPTVAATTNVDFPPNEAPMLSPQRPYSTSPKQFPATTKSPLLRFASVSPYPKFHSDNQIMASAGLTYVSPHNKNKYTRPLIRKGLNFTTESVNDCTYKIIFEPDELAINIYKELFGTMGSQPASQPLLIFSNVNLRQDVPPLDILNVVDYVPTNEEISQQKTQPTDHGAVGVFHLDDHISPGEQGLKQTIGDKADLKGKDGNSSPQEFKLITDEEQLRRASQELKDEEKDAESPWQAILLLPKGYKGGVDFRNKPVAHTDSSFNNEDTITHSELEVNTGSPSQESGSLNEAGIGITQPMSEVQRRKEDVTPASPILTSSQTPHYSNSLYNAPFAVSSPPDPLPNLFTTTSEKVFPKINVLIVEDNVINQAILGSFLRKHKISYKLAKNGQEAVNIWKEGGLHLIFMDLQLPVLSGIEAAKQIRDFEKQNGIGIQKSLNNSHSNLEKGTSKRFSQAPVIIVALTASNSQMDKRKALLSGCNDYLTKPVNLHWLSKKITEWGCMQALIDFDSWKQGESRMTDSVLVKSPQKPIAPSNPHSFKQATSMTPTHSPVRKNSNLSPTQIEL |
| 5820 | sp|Q42374|SY111\_ARATH | MNDLMTKSFMSYVDLKKAAMKDMEAGPDFDLEMASTKADKMDENLSSFLEEAEYVKAEMGLISETLARIEQYHEESKGVHKAESVKSLRNKISNEIVSGLRKAKSIKSKLEEMDKANKEIKRLSGTPVYRSRTAVTNGLRKKLKEVMMEFQGLRQKMMSEYKETVERRYFTVTGEHANDEMIEKIITDNAGGEEFLTRAIQEHGKGKVLETVVEIQDRYDAAKEIEKSLLELHQVFLDMAVMVESQGEQMDEIEHHVINASHYVADGANELKTAKSHQRNSRKWMCIGIIVLLLIILIVVIPIITSFSSS |
| 5821 | sp|Q9ULZ2|STAP1\_HUMAN | MMAKKPPKPAPRRIFQERLKITALPLYFEGFLLIKRSGYREYEHYWTELRGTTLFFYTDKKSIIYVDKLDIVDLTCLTEQNSTEKNCAKFTLVLPKEEVQLKTENTESGEEWRGFILTVTELSVPQNVSLLPGQVIKLHEVLEREKKRRIETEQSTSVEKEKEPTEDYVDVLNPMPACFYTVSRKEATEMLQKNPSLGNMILRPGSDSRNYSITIRQEIDIPRIKHYKVMSVGQNYTIELEKPVTLPNLFSVIDYFVKETRGNLRPFICSTDENTGQEPSMEGRSEKLKKNPHIA |
| 5822 | sp|Q8N2H4|SYS1\_HUMAN | MAGQFRSYVWDPLLILSQIVLMQTVYYGSLGLWLALVDGLVRSSPSLDQMFDAEILGFSTPPGRLSMMSFILNALTCALGLLYFIRRGKQCLDFTVTVHFFHLLGCWFYSSRFPSALTWWLVQAVCIALMAVIGEYLCMRTELKEIPLNSAPKSNV |
| 5823 | sp|P07263|SYH\_YEAST | MLSRSLNKVVTSIKSSSIIRMSSATAAATSAPTANAANALKASKAPKKGKLQVSLKTPKGTKDWADSDMVIREAIFSTLSGLFKKHGGVTIDTPVFELREILAGKYGEDSKLIYNLEDQGGELCSLRYDLTVPFARYVAMNNIQSIKRYHIAKVYRRDQPAMTKGRMREFYQCDFDVAGTFESMVPDSECLSILVEGLTSLGIKDFKIKLNHRKILDGIFQIAGVKDEDVRKISSAVDKLDKSPWEAVKKEMTEEKGQSEETADKIGEYVKLNGSLKEIHAVLSADANITSNEKAKQGLDDIATLMKYTEAFDIDSFISFDLSLARGLDYYTGLIYEVVTSASAPPENASELKKKAKSAEDASEFVGVGSIAAGGRYDNLVNMFSEASGKKSTQIPCVGISFGVERIFSLIKQRINSSTTIKPTATQVFVMAFGGGKDWTGYLPERMKVTKQLWDAGIEAEYVYKAKANPRKQFDAAEKAGCHIAVILGKEEYLEGKLRVKRLGQEFADDDGELVSAADIVPIVQEKLSQIHEDGLNEVTRLIKGL |
| 5824 | sp|Q04048|SYF1\_YEAST | MSAYIAMKGVITNVDENIRNDEDVAFEYEIQKTPQNILTWKRYIEYWKEEGRTDKQIRWLYERFCSQFVTDTSIWEDYIRWESTKEVVETSRIFWLFQRCLKSCVRDCDRICLSYLELAIEQYDLAMIRHALASSLMKMEREMHRKVWDPVIKFVEEKVLPLTQLDSTQEDEEESTDEAELINVLLVKGFTKGGFISEEISENGSRGDIWSSHILERYLKVAPQQKRNESLATLALTRDNITIKSVYEKYLPQDENSGKYLPSSELPFELNFNYLASLEKLGLDNQYEEFMRQMNGIYPDKWLFLILSLAKYYISRGRLDSCGDLLKKSLQQTLRYSDFDRIYNFYLLFEQECSQFILGKLKENDSKFFNQKDWTEKLQAHMATFESLINLYDIYLNDVALRQDSNLVETWMKRVSLQKSAAEKCNVYSEAILKIDPRKVGTPGSFGRLWCSYGDLYWRSNAISTARELWTQSLKVPYPYIEDLEEIYLNWADRELDKEGVERAFSILEDALHVPTNPEILLEKYKNGHRKIPAQTVLFNSLRIWSKYIDYLEAYCPKDANSSDKIFNKTKMAYNTVIDLRLITPAMAENFALFLQNHYEVMESFQVYEKTIPLFPPEIQYELWIEYLEVATSHQLSSLSPEHIRFLFEKALKNLCSNGIDCKTIFIAYSVFEERISGLISKSIEILRRGAVIGTVSVSTHLESRLQLWRMCISKAESTLGPSVTRELYQECIQILPNSKAVEFVIKFSDFESSIGETIRAREILAYGAKLLPPSRNTELWDSFEIFELKHGDKETYKDMLKMKKVLESNMLIDSASVSHEEGNINFVAAATSHAPNSHTLTQSTSSYSINPDEIELDI |
| 5825 | sp|Q9DER5|TEN2\_CHICK | MDIKDRRHRSLTRGRCGKECRYTSSSLDSEDCRVPAQKSYSSSETLKAYGHDTRMHYGNRVSDLVHRESDEFPRQGTNFTLAELGICEPSPHRSGYCSDIGILHQGYSLSTGSDADSDTEGGMSPEHAIRLWGRGIKSSRSSGLSSRENSALTLTDSDNENKSDEENDFHTHLSEKLKDRQTSWQQLAETKNSLIRRPIPPTSSSSLLPSAQLPSSHNPPPVSCQMPLLDSNTSHQIMDTNPDEEFSPNSYLLRACSGPQQASSSGPSNHHSQSTLRPPLPPPHNHSLSHHHSSANSLNRNSLTNRRNQIHAPAPAPNDLATTPESVQLQDSWVLNSNVPLETRHFLFKTSSGTTPLFSSSSPGYPLTSGTVYTPPPRLLPRNTFSRNAFKLKKPSKYCSWKCAALSAIAAAVLLAILLAYFIAMHLLGLNWQLQPADGHTFSNGLRPGAAGAEDGAAAPPAGRGPWVTRNSSIDSGETEVGRKVTQEVPPGVFWRSQIHISQPQFLKFNISLGKDALFGVYIRRGLPPSHAQYDFMERLDGKEKWSVVESPRERRSIQTLVQNEAVFVQYLDVGLWHLAFYNDGKDKEVVSFSTVILDSVQDCPRNCHGNGECVSGVCHCFPGFHGADCAKAACPVLCSGNGQYSKGTCLCYSGWKGPECDVPISQCIDPSCGGHGSCIEGNCVCSIGYKGENCEEVDCLDPTCSNHGVCVNGECLCSPGWGGINCELPRAQCPDQCSGHGTYLSDTGLCSCDPNWMGPDCSVEVCSVDCGTHGVCIGGACRCEEGWTGVACDQRVCHPRCTEHGTCKDGKCECREGWNGEHCTIGRQTTGTETDGCPDLCNGNGRCTLGQNSWQCVCQTGWRGPGCNVAMETSCADNKDNEGDGLVDCLVPDCCLQSTCQNSLLCRGSRDPLDIIQQSHSGSPAVKSFYDRIKLLVGKDSTHIIPGENPFNSSLVSLIRGQVVTTDGTPLVGVNVSFVKYPKYGYTITRQDGMFDLVANGGSSLTLHFERAPFMSQERTVWLPWNSFYAMDTLVMKTEENSIPSCDLSGFVRPDPVIISSPLSTFFSDAPGRNPIVPETQVLHEEIEVPGSSIKLIYLSSRTAGYKSLLKIIMTQSLVPLNLIKVHLMVAVEGHLFQKSFLASPNLAYTFIWDKTDAYGQKVYGLSDAVVSVGFEYETCPSLILWEKRTALLQGFELDPSNLGGWSLDKHHVLNVKSGILHKGNGENQFLTQQPAVITSIMGNGRRRSISCPSCNGLAEGNKLLAPVALAVGIDGSLFVGDFNYIRRIFPSRNVTSILELRNKEFKHSNNPAHKYYLAVDPVSGSLYVSDTNSRRIYKVKSLTGTKDLAGNSEVVAGTGEQCLPFDEARCGDGGKAVDATLMSPRGIAVDKYGLMYFVDATMIRKVDQNGIISTLLGSNDLTAVRPLSCDSSMDVSQVRLEWPTDLAVDPMDNSLYVLENNVILRITENHQVSIIAGRPMHCQVPGIDYSLSKLAIHSALESASAIAISHTGVLYISETDEKKINRLRQVTTNGEICLLAGAASDCDCKNDVNCNCYSGDDGYATDAILNSPSSLAVAPDGTIYIADLGNIRIRAVSKNRPILNSFNQYEAASPGEQELYVFNADGIHQYTLSLVTGEYLYNFTYSSDNDVTEVMDSNGNSLKVRRDASGMPRHLLMPDNQIVTLAVGTNGGLKLVSTQTLELGLMTYNGNSGLLATKSDETGWTTFYDYDHEGRLTNVTRPTGVVTSLHREMEKSITIDIENSNRDDDVTVITNLSSVEASYTVVQDQVRNSYQLCNNGTLRVMYANGMSISFHSEPHVLAGTVTPTIGRCNISLPMENGLNSIEWRLRKEQIKGKVTVFGRKLRVHGRNLLSIDYDRNIRTEKIYDDHRKFTLRIIYDQLGRPFLWLPSSGLAAVNVSYFFNGRLAGLQRGAMSERTDIDKQGRIISRMFADGKVWSYTYLEKSMVLLLQSQRQYIFEYDSSDRLHAVTMPSVARHSMSTHTSVGYIRNIYNPPESNASVIFDYSDDGRILKTSFLGTGRQVFYKYGKLSKLSEIVYDSTAVTFGYDETTGVLKMVNLQSGGFSCTIRYRKIGPLVDKQIYRFSEEGMVNARFDYTYHDNSFRIASIKPIISETPLPVDLYRYDEISGKVEHFGKFGVIYYDINQIITTAVMTLSKHFDTHGRIKEVQYEMFRSLMYWMTVQYDSMGRVTKRELKLGPYANTTKYTYDYDGDGQLQSVAVNDRPTWRYSYDLNGNLHLLNPGNSVRLMPLRYDLRDRITRLGDIPYKIDDDGFLCQRGSDVFEYNSKGLLTRAYNKANGWNVQYRYDGLGRRASCKTNLGHHLQYFYADLHNPTRVTHVYNHSNSEITSLYYDLQGHLFAMESSSGEEYYVASDNTGTPLAVFSINGLMIKQLQYTAYGEIYYDSNPDFQLVIGFHGGLYDPLTKLVHFTQRDYDVLAGRWTSPDYTMWKNIGREPAPFNLYMFKSNNPLSNELDLKNYVTDVKSWLVMFGFQLSNIIPGFPRAKMYFVSPPYELTESQACENGQLITGVQQTTERHNQAFMALEGQVISKRLHASIREKAGHWFATSTPIIGKGIMFAVKKGRVTTGISSIATDDSRKIASVLNSAHYLEKMHYSIEGKDTHYFVKIGSADSDLVTLAMTSGRKVLDSGVNVTVSQPTLLINGRTRRFTNIEFQYSTLLINIRYGLTADTLDEEKARVLDQARQRALGSAWAKEQQKARDGREGSRVWTDGEKQQLLNTGRVQGYEGYYVLPVEQYPELADSSSNIQFLRQNEMGKR |
| 5826 | sp|Q9XH75|TATB\_ARATH | MAMALQIIASSSSSPTITKSHLFSYPPLQSRYKASKPNLSSWFSLLGSSRFSPYIGLKHLGISISPKSSNPEKKRRCKSMMIRASLFGVGAPEALVIGVVALLVFGPKGLAEVARNLGKTLRTFQPTIRELQDVSRDFKSTLEREIGLDDISTPNVYNQNRTNPVQPPPPPPPPSVPSTEAPVTANDPNDSQSPKAYTSEDYLKFTEEQLKALSPAESQTEDQTQTQEPPQPTTVQTPTGESQPNGTARETTAASPPRQD |
| 5827 | sp|Q04206|TF65\_HUMAN | MDELFPLIFPAEPAQASGPYVEIIEQPKQRGMRFRYKCEGRSAGSIPGERSTDTTKTHPTIKINGYTGPGTVRISLVTKDPPHRPHPHELVGKDCRDGFYEAELCPDRCIHSFQNLGIQCVKKRDLEQAISQRIQTNNNPFQVPIEEQRGDYDLNAVRLCFQVTVRDPSGRPLRLPPVLSHPIFDNRAPNTAELKICRVNRNSGSCLGGDEIFLLCDKVQKEDIEVYFTGPGWEARGSFSQADVHRQVAIVFRTPPYADPSLQAPVRVSMQLRRPSDRELSEPMEFQYLPDTDDRHRIEEKRKRTYETFKSIMKKSPFSGPTDPRPPPRRIAVPSRSSASVPKPAPQPYPFTSSLSTINYDEFPTMVFPSGQISQASALAPAPPQVLPQAPAPAPAPAMVSALAQAPAPVPVLAPGPPQAVAPPAPKPTQAGEGTLSEALLQLQFDDEDLGALLGNSTDPAVFTDLASVDNSEFQQLLNQGIPVAPHTTEPMLMEYPEAITRLVTGAQRPPDPAPAPLGAPGLPNGLLSGDEDFSSIADMDFSALLSQISS |
| 5828 | sp|Q9HCS4|TF7L1\_HUMAN | MPQLGGGGGGGGGGSGGGGGSSAGAAGGGDDLGANDELIPFQDEGGEEQEPSSDSASAQRDLDEVKSSLVNESENQSSSSDSEAERRPQPVRDTFQKPRDYFAEVRRPQDSAFFKGPPYPGYPFLMIPDLSSPYLSNGPLSPGGARTYLQMKWPLLDVPSSATVKDTRSPSPAHLSNKVPVVQHPHHMHPLTPLITYSNDHFSPGSPPTHLSPEIDPKTGIPRPPHPSELSPYYPLSPGAVGQIPHPLGWLVPQQGQPMYSLPPGGFRHPYPALAMNASMSSLVSSRFSPHMVAPAHPGLPTSGIPHPAIVSPIVKQEPAPPSLSPAVSVKSPVTVKKEEEKKPHVKKPLNAFMLYMKEMRAKVVAECTLKESAAINQILGRKWHNLSREEQAKYYELARKERQLHSQLYPTWSARDNYGKKKKRKREKQLSQTQSQQQVQEAEGALASKSKKPCVQYLPPEKPCDSPASSHGSMLDSPATPSAALASPAAPAATHSEQAQPLSLTTKPETRAQLALHSAAFLSAKAAASSSGQMGSQPPLLSRPLPLGSMPTALLASPPSFPATLHAHQALPVLQAQPLSLVTKSAH |
| 5829 | sp|P0AGF6|TDCB\_ECOLI | MHITYDLPVAIDDIIEAKQRLAGRIYKTGMPRSNYFSERCKGEIFLKFENMQRTGSFKIRGAFNKLSSLTDAEKRKGVVACSAGNHAQGVSLSCAMLGIDGKVVMPKGAPKSKVAATCDYSAEVVLHGDNFNDTIAKVSEIVEMEGRIFIPPYDDPKVIAGQGTIGLEIMEDLYDVDNVIVPIGGGGLIAGIAVAIKSINPTIRVIGVQSENVHGMAASFHSGEITTHRTTGTLADGCDVSRPGNLTYEIVRELVDDIVLVSEDEIRNSMIALIQRNKVVTEGAGALACAALLSGKLDQYIQNRKTVSIISGGNIDLSRVSQITGFVDA |
| 5830 | sp|Q9NZI6|TF2L1\_HUMAN | MLFWHTQPEHYNQHNSGSYLRDVLALPIFKQEEPQLSPENEARLPPLQYVLCAATSPAVKLHEETLTYLNQGQSYEIRLLENRKLGDFQDLNTKYVKSIIRVVFHDRRLQYTEHQQLEGWRWSRPGDRILDIDIPLSVGILDPRASPTQLNAVEFLWDPAKRASAFIQVHCISTEFTPRKHGGEKGVPFRVQIDTFKQNENGEYTEHLHSASCQIKVFKPKGADRKQKTDREKMEKRTAQEKEKYQPSYETTILTECSPWPDVAYQVNSAPSPSYNGSPNSFGLGEGNASPTHPVEALPVGSDHLLPSASIQDAQQWLHRNRFSQFCRLFASFSGADLLKMSRDDLVQICGPADGIRLFNAIKGRNVRPKMTIYVCQELEQNRVPLQQKRDGSGDSNLSVYHAIFLEELTTLELIEKIANLYSISPQHIHRVYRQGPTGIHVVVSNEMVQNFQDESCFVLSTIKAESNDGYHIILKCGL |
| 5831 | sp|Q8WWU5|TCP11\_HUMAN | MPDVKESVPPKYPGDSEGRSCKPETSGPPQEDKSGSEDPPPFLSVTGLTETVNEVSKLSNKIGMNCDYYMEEKVLPPSSLEGKVKETVHNAFWDHLKEQLSATPPDFSCALELLKEIKEILLSLLLPRQNRLRIEIEEALDMDLLKQEAEHGALKVLYLSKYVLNMMALLCAPVRDEAVQKLENITDPVWLLRGIFQVLGRMKMDMVNYTIQSLQPHLQEHSIQYERAKFQELLNKQPSLLNHTTKWLTQAAGDLTMSPPTCPDTSDSSSVAGPSPNEAANNPEPLSPTMVLCQGFLNLLLWDLENEEFPETLLMDRTRLQELKSQLHQLTVMASVLLVASSFSGSVLFGSPQFVDKLKRITKSLLEDFHSRPEEAILTVSEQVSQEIHQSLKNMGLVALSSDNTASLMGQLQNIAKKENCVCSVIDQRIHLFLKCCLVLGVQRSLLDLPGGLTLIEAELAELGQKFVNLTHHNQQVFGPYYTEILKTLISPAQALETKVESV |
| 5832 | sp|Q9H147|TDIF1\_HUMAN | MGATGDAEQPRGPSGAERGGLELGDAGAAGQLVLTNPWNIMIKHRQVQRRGRRSQMTTSFTDPAISMDLLRAVLQPSINEEIQTVFNKYMKFFQKAALNVRDNVGEEVDAEQLIQEACRSCLEQAKLLFSDGEKVIPRLTHELPGIKRGRQAEEECAHRGSPLPKKRKGRPPGHILSSDRAAAGMVWKPKSCEPIRREGPKWDPARLNESTTFVLGSRANKALGMGGTRGRIYIKHPHLFKYAADPQDKHWLAEQHHMRATGGKMAYLLIEEDIRDLAASDDYRGCLDLKLEELKSFVLPSWMVEKMRKYMETLRTENEHRAVEAPPQT |
| 5833 | sp|Q9XTQ6|TBH1\_CAEEL | MEPTASQGIQYLRGGVEWILKLLNLHILNVKHENKPLLFRLIDLKVYIPSSVSTVRWSSGASSYVILGEYRKMRSAVALLFLLVAYCGGVVHAGEIVAELYHTNVTVKWHTDYERQLVDFSIWFGASTPDVLFLGFSDFGDTNNSDVLMYYNSKKEIKDAYTNRDFKITSDLQQDFQLLRKRKDHIVVRRKLTTCDSRDYAFLPGTTQFYIAASWGSTNLVDIRDKRWVVDKKFGKVIEGPTDQPNIEEEPAALEKDVKVVIVNSNSPDPIPNVETTYKCIIRKMPFDTVNNMYHVVRMEPYVTPGNEHLVHHMEIFMCRDEVEEWSGSCNDPKKPPKSKSCSHVIAAWAMGEGPIHYPKEAGLPIGGKGKNAYVMVEIHYNNPELHKGVIDSSGFQFFVTGQLRKYDAGIMELGLIYSDANSVPPNQKAWAMNGYCPSQCTKNLPEEGINIFASQLHAHLTGRKLFTSQYRSGVRIGDVNRDEHYSPHWQHLQQLRPVVKVMPGDTLVTTCVYDTRKRSKVTFGGYRIVDEMCVNYIYYYPASDVEVCKSAISNSTLRAYFSERHGMDGKRMQISDMYSNVKDWGNGVDEEFYNVLNVGNMNMNCLKSNGEPFEFESKDSRQSWENMARPTFVSGSFITTRDRFQCPAINDMINFE |
| 5834 | sp|P20061|TCO1\_HUMAN | MRQSHQLPLVGLLLFSFIPSQLCEICEVSEENYIRLKPLLNTMIQSNYNRGTSAVNVVLSLKLVGIQIQTLMQKMIQQIKYNVKSRLSDVSSGELALIILALGVCRNAEENLIYDYHLIDKLENKFQAEIENMEAHNGTPLTNYYQLSLDVLALCLFNGNYSTAEVVNHFTPENKNYYFGSQFSVDTGAMAVLALTCVKKSLINGQIKADEGSLKNISIYTKSLVEKILSEKKENGLIGNTFSTGEAMQALFVSSDYYNENDWNCQQTLNTVLTEISQGAFSNPNAAAQVLPALMGKTFLDINKDSSCVSASGNFNISADEPITVTPPDSQSYISVNYSVRINETYFTNVTVLNGSVFLSVMEKAQKMNDTIFGFTMEERSWGPYITCIQGLCANNNDRTYWELLSGGEPLSQGAGSYVVRNGENLEVRWSKY |
| 5835 | sp|P57082|TBX4\_HUMAN | MLQDKGLSESEEAFRAPGPALGEASAANAPEPALAAPGLSGAALGSPPGPGADVVAAAAAEQTIENIKVGLHEKELWKKFHEAGTEMIITKAGRRMFPSYKVKVTGMNPKTKYILLIDIVPADDHRYKFCDNKWMVAGKAEPAMPGRLYVHPDSPATGAHWMRQLVSFQKLKLTNNHLDPFGHIILNSMHKYQPRLHIVKADENNAFGSKNTAFCTHVFPETSFISVTSYQNHKITQLKIENNPFAKGFRGSDDSDLRVARLQSKEYPVISKSIMRQRLISPQLSATPDVGPLLGTHQALQHYQHENGAHSQLAEPQDLPLSTFPTQRDSSLFYHCLKRRDGTRHLDLPCKRSYLEAPSSVGEDHYFRSPPPYDQQMLSPSYCSEVTPREACMYSGSGPEIAGVSGVDDLPPPPLSCNMWTSVSPYTSYSVQTMETVPYQPFPTHFTATTMMPRLPTLSAQSSQPPGNAHFSVYNQLSQSQVRERGPSASFPRERGLPQGCERKPPSPHLNAANEFLYSQTFSLSRESSLQYHSGMGTVENWTDG |
| 5836 | sp|Q925C0|SYT9\_RAT | MPGARDALCHQALQLLAELCARGALEHDSCQDFIYHLRDRARPRLRDPDISVSLLTLVVTACGLALFGVSLFVSWKLCWVPWRERGLFSGSKDNNQEPLNYTDTETNEQENSEDFLDPPTPCPDSSMKISHTSPDIPLSTQPGGQDNCAHAVRVQRQVTEPTPSARHNSIRRQLNLSNPDFNIQQLQRQEQLTGIGRIKPELYKQRSLDNDDGRRSNSKACGKLNFILKYDCDLEQLIVKIHKAVNLPAKDFSGTSDPYVKIYLLPDRKTKHQTKVHRKTLNPVFDEVFLFPVHYNDLEARKLHFSVYDFDRFSRHDLIGQVVVDHFFDLADFPRECILWKDIEYVTNDNVDLGELMFSLCYLPTAGRLTITIIKARNLKAMDITGASDPYVKVSLMCDGRRLKKRKTSTKRNTLNPVYNEAIVFDVPPESIDQIHLSIAVMDYDRVGHNEVIGVCQVGNEAERLGRDHWSEMLSYPRKPIAHWHSLLEKR |
| 5837 | sp|Q15543|TAF13\_HUMAN | MADEEEDPTFEEENEEIGGGAEGGQGKRKRLFSKELRCMMYGFGDDQNPYTESVDILEDLVIEFITEMTHKAMSIGRQGRVQVEDIVFLIRKDPRKFARVKDLLTMNEELKRARKAFDEANYGS |
| 5838 | sp|O94436|TAF14\_SCHPO | MTTVKRTVRLITDQNVLPGGEAAVLNDQSFPVREWSIKLVCLNPQGEETDASFVDRVTYKLHPTFQNPTRTIRKPPFQIKEQGWGEFEMEIIIYYADKGGEHRFLHYLHFQQEHYHEDIELNINATRPGLLKALTATGEVPGYSDEGEEARKDKRKNESEVGAGKKKAKAKPVDMDKLAEGLQKLQEDDLLQVVQMVNENKTPDMYVRNDIEGGEFHIDLYTLPDNLLLLLYSFCAKRVTM |
| 5839 | sp|Q940G0|TMN1\_ARATH | MPSSSSAAVLVFLLLVSLLTPTFASDSDHKYQAEEQVTLWVNKVGPYNNPQETYNYYSLPFCRPSGNNVHKWGGLGEVLGGNELIDSEIAIKFMKNVERSVICPLELDEAKVKHFKDAIESSYWFEFFMDDLPLWGFVGELHPDKNSENGKHVLYTHKNIVVKYNKDQIIHVNLTQDNPRPLEAGKKMDLTYSVQWIPTNVTFARRFDVYLDYPFFEHQIHWFSIFNSFMMVIFLTGLVSMILMRTLRNDYAKYAREDDDLESLERDVSEESGWKLVHGDVFRPASSLVLLSAVVGTGAQLALLVLLVILMAIVGTLYVGRGAIVTTFIVCYALTSFVSGYVSGGMYSRSGGKHWIKCMVLTASLFPFLCFGIGFLLNTIAIFYGSLAAIPFGTMVVVFVIWGFISFPLALLGTVVGRNWSGAPNNPCRVKTIPRPIPEKKWYLTPSVVSLMGGLLPFGSIFIEMYFVFTSFWNYKVYYVYGFMLLVFVILVIVTVCVTIVGTYFLLNAENYHWQWTSFFSAASTAVYVYLYSIYYYYVKTKMSGFFQTSFYFGYTMMFCLGLGILCGAVGYLGSNLFVRRIYRNIKCD |
| 5840 | sp|G5ECG0|TACC1\_CAEEL | MSLNTTFTKEDGTEVVIPFNGSQNGHPENEEPEVEEAAEPSSSVETLCGATRGDIIVMKHTTKALTELIERLLHSDEFEVRRCSNGQIISQGRCNGTTPGNGIGGGGASSEELEKALKDRDAARAEADKLHANYATLFASFNTVREAANDIRGEYEDARDKLKLAAAEVDEWQAKFLAVKDNANSELERASVEYDDLLRSHDENTKGLRLRVKRQEIELSSKNDEIKVLTNRVSELSQICDQLLNDVDVSDGMSVISTDA |
| 5841 | sp|P11985|TC1D3\_MOUSE | MERRGRMAKTPTGQTHQSPVSKRERKPSMFEKESYAQILRERLRESFHDVQYVEPPFDDSIADVGKEWKSALAKLKFANSYRMEPLKKFQAHLVETKIQQILKDSLKDVKYDDKAPHLSLELADGILAAVKEFAYHRYKFIIQVLFIQKTGQAINIASRWIWDVAWDNWVEAKHETESYVVLALVFALYCE |
| 5842 | sp|P47825|TAF4\_DROME | MNTSQTAAGNRITFTSQPLPNGTISIAGNPGAVISTAQLPNTTTIKTIQAGIGGQHQGLQQVHHVQQQQQSQQQQQQQQQTQSAGQPLLNSMLPAGVVVGMRQQAPSQQQQKNVPTNPLSRVVINSHMAGVRPQSPSITLSTLNTGQTPALLVKTDNGFQLLRVGTTTGPPTVTQTITNTSNNSNTTSTTNHPTTTQIRLQTVPAAASMTNTTATSNIIVNSVASSGYANSSQPPHLTQLNAQAPQLPQITQIQTIPAQQSQQQQVNNVSSAGGTATAVSSTTAATTTQQGNTKEKCRKFLANLIELSTREPKPVEKNVRTLIQELVNANVEPEEFCDRLERLLNASPQPCLIGFLKKSLPLLRQALYTKELVIEGIKPPPQHVLGLAGLSQQLPKIQAQIRPIGPSQTTTIGQTQVRMITPNALGTPRPTIGHTTISKQPPNIRLPTAPRLVNTGGIRTQIPSLQVPGQANIVQIRGPQHAQLQRTGSVQIRATTRPPNSVPTANKLTAVKVGQTQIKAITPSLHPPSLAAISGGPPPTPTLSVLSTLNSASTTTLPIPSLPTVHLPPEALRAREQMQNSLNHNSNHFDAKLVEIKAPSLHPPHMERINASLTPIGAKTMARPPPAINKAIGKKKRDAMEMDAKLNTSSGGAASAANSFFQQSSMSSMYGDDDINDVAAMGGVNLAEESQRILGCTENIGTQIRSCKDEVFLNLPSLQARIRAITSEAGLDEPSQDVAVLISHACQERLKNIVEKLAVIAEHRIDVIKLDPRYEPAKDVRGQIKFLEELDKAEQKRHEELEREMLLRAAKSRSRVEDPEQAKMKARAKEMQRAEMEELRQRDANLTALQAIGPRKKLKLDGETVSSGAGSSGGGVLSSSGSAPTTLRPRIKRVNLRDMLFYMEQEREFCRSSMLFKTYLK |
| 5843 | sp|P63059|THA\_RAT | MEQKPSKVECGSDPEENSARSPDGKRKRKNGQCPLKSSMSGYIPSYLDKDEQCVVCGDKATGYHYRCITCEGCKGFFRRTIQKNLHPTYSCKYDSCCVIDKITRNQCQLCRFKKCIAVGMAMDLVLDDSKRVAKRKLIEQNRERRRKEEMIRSLQQRPEPTPEEWDLIHVATEAHRSTNAQGSHWKQRRKFLPDDIGQSPIVSMPDGDKVDLEAFSEFTKIITPAITRVVDFAKKLPMFSELPCEDQIILLKGCCMEIMSLRAAVRYDPESDTLTLSGEMAVKREQLKNGGLGVVSDAIFELGKSLSAFNLDDTEVALLQAVLLMSTDRSGLLCVDKIEKSQEAYLLAFEHYVNHRKHNIPHFWPKLLMKEREVQSSILYKGAAAEGRPGGSLGVHPEGQQLLGMHVVQGPQVRQLEQQFGEAGSLRGPVLQHQSPKSPQQRLLELLHRSGILHSRAVCGEDDSSEASSLSSSSSDEDTEVFEDLAGKAASP |
| 5844 | sp|Q9BQ16|TICN3\_HUMAN | MLKVSAVLCVCAAAWCSQSLAAAAAVAAAGGRSDGGNFLDDKQWLTTISQYDKEVGQWNKFRDEVEDDYFRTWSPGKPFDQALDPAKDPCLKMKCSRHKVCIAQDSQTAVCISHRRLTHRMKEAGVDHRQWRGPILSTCKQCPVVYPSPVCGSDGHTYSFQCKLEYQACVLGKQISVKCEGHCPCPSDKPTSTSRNVKRACSDLEFREVANRLRDWFKALHESGSQNKKTKTLLRPERSRFDTSILPICKDSLGWMFNRLDTNYDLLLDQSELRSIYLDKNEQCTKAFFNSCDTYKDSLISNNEWCYCFQRQQDPPCQTELSNIQKRQGVKKLLGQYIPLCDEDGYYKPTQCHGSVGQCWCVDRYGNEVMGSRINGVADCAIDFEISGDFASGDFHEWTDDEDDEDDIMNDEDEIEDDDEDEGDDDDGGDDHDVYI |
| 5845 | sp|Q07914|TIM14\_YEAST | MSSQSNTGNSIEAPQLPIPGQTNGSANVTVDGAGVNVGIQNGSQGQKTGMDLYFDQALNYMGEHPVITGFGAFLTLYFTAGAYKSISKGLNGGKSTTAFLKGGFDPKMNSKEALQILNLTENTLTKKKLKEVHRKIMLANHPDKGGSPFLATKINEAKDFLEKRGISK |
| 5846 | sp|Q08117|TLE5\_HUMAN | MMFPQSRHSGSSHLPQQLKFTTSDSCDRIKDEFQLLQAQYHSLKLECDKLASEKSEMQRHYVMYYEMSYGLNIEMHKQAEIVKRLNGICAQVLPYLSQEHQQQVLGAIERAKQVTAPELNSIIRQQLQAHQLSQLQALALPLTPLPVGLQPPSLPAVSAGTGLLSLSALGSQAHLSKEDKNGHDGDTHQEDDGEKSD |
| 5847 | sp|Q8CGB6|TNS2\_MOUSE | MKSSGPVERLLRALGRRDSSRATSRPRKAEPHSFREKVFRKKTPVCAVCKVTIDGTGVSCRVCKVATHRKCEAKVTSSCQALPPAELRRSTAPVRRIEHLGSTKSLNHSKQRSTLPRSFSLDPLMERRWDLDLTYVTERILAAAFPARPDEQRHRGHLRELAHVLQSKHRDKYLLFNLSEKRHDLTRLNPKVQDFGWPELHAPPLDKLCSICKAMETWLSADPQHVVVLYCKGSKGKLGVIVSAYMHYSKISAGADQALATLTMRKFCEDKVATELQPSQRRYVSYFSGLLSGSIRMNSSPLFLHYVFVPVLPAFEPNTGFQPFLKIYQSMQLVYTSGVYRIAGPGPQQLCISLEPALLLKGDVMVTCYHKGGQGTDRTLVFRVQFHTCTIHGSRLTFPKDQLDEAWADERFPFQASVEFVFSSSPEKVKGNTPRNDPSVSVDYNTTEPAVRWDSYENFNQHHEDSVDGALAHTRGPLDGSPYAQVQRVPRQTPPAPSPELPPPPMLSVSSDSGHSSTLTTEHTAESPGRPPPTAAERQELDRLLGGCGVASAGRGAGRETAILDDEEQPSVGGGLHLGMYSGHRPGLSRRCSCRQGFREPCGVPNGSYYRPEGTLERRRPPYGGYEGHPQGYAEASVEKRRLCRSLSEGPYPYAPELGKPANGDFGYRPAGYREVVILEDPGVPALCSCPACEEKLALPTAALYGLRLEREAAEGWSSEVGKPLLHPVRPGHPLPLLVPACGHHHAPMPDYGCLKPPKVGEEGHEGCSYAVCSEGRYGHSGYPALVTYGYGGAVPSYCPAYGRAPHSCGSPSEGRGYPSPGAHSPRAGSVSPGSPPYLQPRKLGYEISAEDGRDKYPLSGHLASTGPLASTESPEPSWRDGSSGHSTLPRSPRDPQCSASSELSGPSTPLHTSSPVQGKESNRRQDTTRSPSLAPTQRLSPGEALPSVVQGVAEKTPELLTSSRPEQLDPSPFSQTSAPGSPNGWPQERSPGGHTNSASPRSPVPTTLPGLRHAPWQGPRGTSDSPDGSPLTPVPTQMPWLVGSPEPPQSSPTPAFPLATSYDANGPIQPPLPEKRHLPGSGQQPSPPARSTNQHVTFASPLPDVTQPPEHPLQENQSNVKFVQDTSKFWYKPHLSRDQAIALLKDKDPGAFLIRDSHSFQGAYGLALKVATPPPSAQPWKGDPSEQLVRHFLIETGPKGVKIKGCPTEPYFGSLSALVSQHSISPISLPCCLRIPSKDPLEETPEAPVPTNMSTAADLLRQGAACSVLYLTSVETESLTGPQAVAKASSAALSCSPVPVPAIVHFKVSAQGITLTDNQRKLFFRRHYPVNSITFSSTDPQDRRWTNPDGATSKIFGFVAKKPGSPWENVCHLFAELDPDQPASAIVTFITKVLLGQRK |
| 5848 | sp|Q8BGW0|THMS1\_MOUSE | MALSLEEFVYSLDLRTLPRVLEIQSGIYFEGSVYEMFGNECCLSTGEVIKITGLKIKKMMAEICEGAIGGCESQKPFELPMNFPGLFKVMADKTPYLSIEEITRTVNIGPSRLGHPCFYHLKDIKLENLIIKQGEPIRFNSVEEINGETLVNCGVVRNHQSHSFTLPLSQEGEFYECEDEHIYTLKEIVEWKIPKNRTRTVKLTDFSNKWDSTNPFPEDFYGTLILKPVYEIQGVLKFQKDIVRILPSLDVEVKDITDSYDANWFLQLLSTDDLFEMTSKEFPVVAEVVEISQGNHLPQSILQREKTIVIHKKYQASRILASEIRSNFPKRHFLIPISYKGKFKRRPREFPTAYDLQIAKSRKETLHVVATKAFHTLHKELSPVSVGDQFLVHHSETTEVVFEGTRKVNVLTCEKVLNKTREDAQLPLYMEGGFVEVIHDKKQYQISELCTQFCWPFNVKVAVRDLSIKDDILAATPGLQLEEDITDSYLLISDFANPEECWEIPMSRLNMTVRLVNGSSLPADAGLLQVRSFVEEITEEQYYMMRRYESSLSHPPPRPPKHPSAEEMKLTLLSLAEERTINLPKSLKSHHVDRPKKLPSDESGQDSRAPVGFQNDVADVERQKSKHGPLQPQAPL |
| 5849 | sp|Q9DD78|TLR21\_CHICK | MFNQSKQKPTMKLMWQAWLIYTALAAHLPEEQALRQACLSCDATQSCNCSFMGLDFIPPGLTGKITVLNLAHNRIKLIRTHDLQKAVNLRTLLLQSNQISSIDEDSFGSQGKLELLDLSNNSLAHLSPVWFGPLFSLQHLRIQGNSYSDLGESSPFSSLRNLSSLHLGNPQFSIIRQGNFEGIVFLNTLRIDGDNLSQYEPGSLKSIRKINHMIISIRRIDVFSAVIRDLLHSAIWLEVREIKLDIENEKLVQNSTLPLTIQKLTFTGASFTDKYISQIAVLLKEIRSLRELEAIDCVLEGKGAWDMTEIARSKQSSIETLSITNMTILDFYLFFDLEGIETQVGKLKRLSIASSKVFMVPCRLARYFSSLLYLDFHDNLLVNNRLGETICEDAWPSLQTLNLSKNSLKSLKQAARYISNLHKLINLDISENNFGEIPDMCEWPENLKYLNLSSTQIPKLTTCIPSTLEVLDVSANNLQDFGLQLPFLKELYLTKNHLKTLPEATDIPNLVAMSISRNKLNSFSKEEFESFKQMELLDASANNFICSCEFLSFIHHEAGIAQVLVGWPESYICDSPLTVRGAQVGSVQLSLMECHRSLLVSLICTLVFLFILILVVVGYKYHAVWYMRMTWAWLQAKRKPKRAPTKDICYDAFVSYSENDSNWVENIMVQQLEQACPPFRLCLHKRDFVPGKWIVDNIIDSIEKSHKTLFVLSEHFVQSEWCKYELDFSHFRLFDENNDVAILILLEPIQSQAIPKRFCKLRKIMNTKTYLEWPPDEEQQQMFWENLKAALKS |
| 5850 | sp|Q9SIT1|TMK3\_ARATH | MSNSHLGTLCFIISLLGLANFSLSQTGLDDSTMQSLKSSLNLTSDVDWSNPNPCKWQSVQCDGSNRVTKIQLKQKGIRGTLPTNLQSLSELVILELFLNRISGPIPDLSGLSRLQTLNLHDNLFTSVPKNLFSGMSSLQEMYLENNPFDPWVIPDTVKEATSLQNLTLSNCSIIGKIPDFFGSQSLPSLTNLKLSQNGLEGELPMSFAGTSIQSLFLNGQKLNGSISVLGNMTSLVEVSLQGNQFSGPIPDLSGLVSLRVFNVRENQLTGVVPQSLVSLSSLTTVNLTNNYLQGPTPLFGKSVGVDIVNNMNSFCTNVAGEACDPRVDTLVSVAESFGYPVKLAESWKGNNPCVNWVGITCSGGNITVVNMRKQDLSGTISPSLAKLTSLETINLADNKLSGHIPDELTTLSKLRLLDVSNNDFYGIPPKFRDTVTLVTEGNANMGKNGPNKTSDAPGASPGSKPSGGSDGSETSKKSSNVKIIVPVVGGVVGALCLVGLGVCLYAKKRKRPARVQSPSSNMVIHPHHSGDNDDIKLTVAASSLNSGGGSDSYSHSGSAASDIHVVEAGNLVISIQVLRNVTNNFSEENILGRGGFGTVYKGELHDGTKIAVKRMESSVVSDKGLTEFKSEITVLTKMRHRHLVALLGYCLDGNERLLVYEYMPQGTLSQHLFHWKEEGRKPLDWTRRLAIALDVARGVEYLHTLAHQSFIHRDLKPSNILLGDDMRAKVSDFGLVRLAPDGKYSIETRVAGTFGYLAPEYAVTGRVTTKVDIFSLGVILMELITGRKALDETQPEDSVHLVTWFRRVAASKDENAFKNAIDPNISLDDDTVASIEKVWELAGHCCAREPYQRPDMAHIVNVLSSLTVQWKPTETDPDDVYGIDYDMPLPQVLKKWQAFEGLSQTADDSGSSSSAYGSKDNTQTSIPTRPSGFADSFTSVDGR |
| 5851 | sp|O15455|TLR3\_HUMAN | MRQTLPCIYFWGGLLPFGMLCASSTTKCTVSHEVADCSHLKLTQVPDDLPTNITVLNLTHNQLRRLPAANFTRYSQLTSLDVGFNTISKLEPELCQKLPMLKVLNLQHNELSQLSDKTFAFCTNLTELHLMSNSIQKIKNNPFVKQKNLITLDLSHNGLSSTKLGTQVQLENLQELLLSNNKIQALKSEELDIFANSSLKKLELSSNQIKEFSPGCFHAIGRLFGLFLNNVQLGPSLTEKLCLELANTSIRNLSLSNSQLSTTSNTTFLGLKWTNLTMLDLSYNNLNVVGNDSFAWLPQLEYFFLEYNNIQHLFSHSLHGLFNVRYLNLKRSFTKQSISLASLPKIDDFSFQWLKCLEHLNMEDNDIPGIKSNMFTGLINLKYLSLSNSFTSLRTLTNETFVSLAHSPLHILNLTKNKISKIESDAFSWLGHLEVLDLGLNEIGQELTGQEWRGLENIFEIYLSYNKYLQLTRNSFALVPSLQRLMLRRVALKNVDSSPSPFQPLRNLTILDLSNNNIANINDDMLEGLEKLEILDLQHNNLARLWKHANPGGPIYFLKGLSHLHILNLESNGFDEIPVEVFKDLFELKIIDLGLNNLNTLPASVFNNQVSLKSLNLQKNLITSVEKKVFGPAFRNLTELDMRFNPFDCTCESIAWFVNWINETHTNIPELSSHYLCNTPPHYHGFPVRLFDTSSCKDSAPFELFFMINTSILLIFIFIVLLIHFEGWRISFYWNVSVHRVLGFKEIDRQTEQFEYAAYIIHAYKDKDWVWEHFSSMEKEDQSLKFCLEERDFEAGVFELEAIVNSIKRSRKIIFVITHHLLKDPLCKRFKVHHAVQQAIEQNLDSIILVFLEEIPDYKLNHALCLRRGMFKSHCILNWPVQKERIGAFRHKLQVALGSKNSVH |
| 5852 | sp|Q9JKX3|TFR2\_MOUSE | MEQRWGLLRRVQQWSPRPSQTIYRRVEGPQLEHLEEEDREEGAELPAQFCPMELKGPEHLGSCPGRSIPIPWAAAGRKAAPYLVLITLLIFTGAFLLGYVAFRGSCQACGDSVLVVDEDVNPEDSGRTTLYWSDLQAMFLRFLGEGRMEDTIRLTSLRERVAGSARMATLVQDILDKLSRQKLDHVWTDTHYVGLQFPDPAHANTLHWVDADGSVQEQLPLEDPEVYCPYSATGNATGKLVYAHYGRSEDLQDLKAKGVELAGSLLLVRVGITSFAQKVAVAQDFGAQGVLIYPDPSDFSQDPHKPGLSSHQAVYGHVHLGTGDPYTPGFPSFNQTQFPPVESSGLPSIPAQPISADIADQLLRKLTGPVAPQEWKGHLSGSPYRLGPGPDLRLVVNNHRVSTPISNIFACIEGFAEPDHYVVIGAQRDAWGPGAAKSAVGTAILLELVRTFSSMVSNGFRPRRSLLFISWDGGDFGSVGATEWLEGYLSVLHLKAVVYVSLDNSVLGDGKFHAKTSPLLVSLIENILKQVDSPNHSGQTLYEQVALTHPSWDAEVIQPLPMDSSAYSFTAFAGVPAVEFSFMEDDRVYPFLHTKEDTYENLHKMLRGRLPAVVQAVAQLAGQLLIRLSHDHLLPLDFGRYGDVVLRHIGNLNEFSGDLKERGLTLQWVYSARGDYIRAAEKLRKEIYSSERNDERLMRMYNVRIMRVEFYFLSQYVSPADSPFRHIFLGQGDHTLGALVDHLRMLRADGSGAASSRLTAGLGFQESRFRRQLALLTWTLQGAANALSGDVWNIDNNF |
| 5853 | sp|F4IW47|TKTC2\_ARATH | MASTSSLALSQALLTRAISHNGSENCVSIPAFSALKSTSPRTSGTISSRRRNASTISHSLRPLVRAAAVEAIVTSSDSSLVDKSVNTIRFLAIDAVEKAKSGHPGLPMGCAPMSHILYDEVMKYNPKNPYWFNRDRFVLSAGHGCMLQYALLHLAGYDSVREEDLKSFRQWGSKTPGHPENFETPGVEATTGPLGQGIANAVGLALAEKHLAARFNKPDNEIVDHYTYSILGDGCQMEGISNEVCSLAGHWGLGKLIAFYDDNHISIDGDTDIAFTESVDKRFEALGWHVIWVKNGNNGYDEIRAAIREAKAVTDKPTLIKVTTTIGYGSPNKANSYSVHGAALGEKEVEATRNNLGWPYEPFHVPEDVKSHWSRHTPEGAALEADWNAKFAAYEKKYPEEAAELKSIISGELPVGWEKALPTYTPDSPGDATRNLSQQCLNALAKAVPGFLGGSADLASSNMTMLKAFGNFQKATPEERNLRFGVREHGMGAICNGIALHSPGFIPYCATFFVFTDYMRAAMRISALSEAGVIYVMTHDSIGLGEDGPTHQPIEHLSSFRAMPNIMMFRPADGNETAGAYKIAVTKRKTPSVLALSRQKLPQLPGTSIESVEKGGYTISDNSTGNKPDVILIGTGSELEIAAQAAEKLREQGKSVRVVSFVCWELFDEQSDAYKESVLPSDVSARVSIEAGSTFGWGKIVGGKGKSIGIDTFGASAPAGKLYKEFGITIEAMVEAAKSLI |
| 5854 | sp|Q13595|TRA2A\_HUMAN | MSDVEENNFEGRESRSQSKSPTGTPARVKSESRSGSRSPSRVSKHSESHSRSRSKSRSRSRRHSHRRYTRSRSHSHSHRRRSRSRSYTPEYRRRRSRSHSPMSNRRRHTGSRANPDPNTCLGVFGLSLYTTERDLREVFSRYGPLSGVNVVYDQRTGRSRGFAFVYFERIDDSKEAMERANGMELDGRRIRVDYSITKRAHTPTPGIYMGRPTHSGGGGGGGGGGGGGGGGRRRDSYYDRGYDRGYDRYEDYDYRYRRRSPSPYYSRYRSRSRSRSYSPRRY |
| 5855 | sp|Q5T2D2|TRML2\_HUMAN | MAPAFLLLLLLWPQGCVSGPSADSVYTKVRLLEGETLSVQCSYKGYKNRVEGKVWCKIRKKKCEPGFARVWVKGPRYLLQDDAQAKVVNITMVALKLQDSGRYWCMRNTSGILYPLMGFQLDVSPAPQTERNIPFTHLDNILKSGTVTTGQAPTSGPDAPFTTGVMVFTPGLITLPRLLASTRPASKTGYSFTATSTTSQGPRRTMGSQTVTASPSNARDSSAGPESISTKSGDLSTRSPTTGLCLTSRSLLNRLPSMPSIRHQDVYSTVLGVVLTLLVLMLIMVYGFWKKRHMASYSMCSDPSTRDPPGRPEPYVEVYLI |
| 5856 | sp|P0A8I5|TRMB\_ECOLI | MKNDVISPEFDENGRPLRRIRSFVRRQGRLTKGQEHALENYWPVMGVEFSEDMLDFPALFGREAPVTLEIGFGMGASLVAMAKDRPEQDFLGIEVHSPGVGACLASAHEEGLSNLRVMCHDAVEVLHKMIPDNSLRMVQLFFPDPWHKARHNKRRIVQVPFAELVKSKLQLGGVFHMATDWEPYAEHMLEVMSSIDGYKNLSESNDYVPRPASRPVTKFEQRGHRLGHGVWDLMFERVK |
| 5857 | sp|Q8K4K2|TRIB3\_MOUSE | MRATPLAASADVSCRKKPLEFDDNIDAKCPVLKRVRDEPEPGPLPSLLPPSPPPASDLSPAVAPATRLGPYILLEREQGSCSYRALHCPTGTEYTCKVYPASEAQAVLAPYARLPTHQHVARPTEVLLGSRLLYIFFTKTHGDLHSLVRSRRGIPESEAAGLFRQMASAVAHCHKHGLVLRDLKLRRFVFSNCERTKLVLENLEDACVMTGSDDSLWDKHACPAYVGPEILSSRPSYSGKAADVWSLGVALFTMLAGRYPFHDSEPVLLFGKIRRGTFALPEGLSAPARCLIRCLLRKEPSERLVALGILLHPWLREDHGRVSPPQSDRREMDQVVPDGPQLEEAEEGEVGLYG |
| 5858 | sp|P0A873|TRMD\_ECOLI | MWIGIISLFPEMFRAITDYGVTGRAVKNGLLSIQSWSPRDFTHDRHRTVDDRPYGGGPGMLMMVQPLRDAIHAAKAAAGEGAKVIYLSPQGRKLDQAGVSELATNQKLILVCGRYEGIDERVIQTEIDEEWSIGDYVLSGGELPAMTLIDSVSRFIPGVLGHEASATEDSFAEGLLDCPHYTRPEVLEGMEVPPVLLSGNHAEIRRWRLKQSLGRTWLRRPELLENLALTEEQARLLAEFKTEHAQQQHKHDGMA |
| 5859 | sp|Q42529|TRPA2\_ARATH | MAIAFKSGVFFLQSPKSQIGFRHSSPPDSSLSFKRFTPMASLSTSSPTLGLADTFTQLKKQGKVAFIPYITAGDPDLSTTAEALKVLDACGSDIIELGVPYSDPLADGPVIQAAATRSLERGTNLDSILEMLDKVVPQISCPISLFTYYNPILKRGLGKFMSSIRAVGVQGLVVPDVPLEETEMLRKEALNNDIELVLLTTPTTPTERMKLIVDASEGFIYLVSSIGVTGARSSVSGKVQSLLKDIKEATDKPVAVGFGISKPEHVKQIAGWGADGVIVGSAMVKLLGDAKSPTEGLKELEKLTKSLKSALL |
| 5860 | sp|P17752|TPH1\_HUMAN | MIEDNKENKDHSLERGRASLIFSLKNEVGGLIKALKIFQEKHVNLLHIESRKSKRRNSEFEIFVDCDINREQLNDIFHLLKSHTNVLSVNLPDNFTLKEDGMETVPWFPKKISDLDHCANRVLMYGSELDADHPGFKDNVYRKRRKYFADLAMNYKHGDPIPKVEFTEEEIKTWGTVFQELNKLYPTHACREYLKNLPLLSKYCGYREDNIPQLEDVSNFLKERTGFSIRPVAGYLSPRDFLSGLAFRVFHCTQYVRHSSDPFYTPEPDTCHELLGHVPLLAEPSFAQFSQEIGLASLGASEEAVQKLATCYFFTVEFGLCKQDGQLRVFGAGLLSSISELKHALSGHAKVKPFDPKITCKQECLITTFQDVYFVSESFEDAKEKMREFTKTIKRPFGVKYNPYTRSIQILKDTKSITSAMNELQHDLDVVSDALAKVSRKPSI |
| 5861 | sp|O43280|TREA\_HUMAN | MPGRTWELCLLLLLGLGLGSQEALPPPCESEIYCHGELLNQVQMAKLYQDDKQFVDMPLSIAPEQVLQTFTELSRDHNHSIPREQLQAFVHEHFQAKGQELQPWTPADWKDSPQFLQKISDAKLRAWAGQLHQLWKKLGKKMKPEVLSHPERFSLIYSEHPFIVPGGRFVEFYYWDSYWVMEGLLLSEMAETVKGMLQNFLDLVKTYGHVPNGGRVYYLQRSQPPLLTLMMDCYLTHTNDTAFLQENIETLALELDFWTKNRTVSVSLEGKNYLLNRYYVPYGGPRPESYSKDVELADTLPEGDREALWAELKAGAESGWDFSSRWLIGGPNPNSLSGIRTSKLVPVDLNAFLCQAEELMSNFYSRLGNDSQATKYRILRSQRLAALNTVLWDEQTGAWFDYDLEKKKKNREFYPSNLTPLWAGCFSDPGVADKALKYLEDNRILTYQYGIPTSLQKTGQQWDFPNAWAPLQDLVIRGLAKAPLRRAQEVAFQLAQNWIRTNFDVYSQKSAMYEKYDVSNGGQPGGGGEYEVQEGFGWTNGVVLMLLDRYGDRLTSGAKLAFLEPHCLAATLLPSLLLSLLPW |
| 5862 | sp|Q27896|TRF\_DROME | MQFHFKVADAERDRDNVAATSNAAANPHAALQPQQPVALVEPKDAQHEIRLQNIVATFSVNCELDLKAINSRTRNSEYSPKRFRGVIMRMHSPRCTALIFRTGKVICTGARNEIEADIGSRKFARILQKLGFPVKFMEYKLQNIVATVDLRFPIRLENLNHVHGQFSSYEPEMFPGLIYRMVKPRIVLLIFVNGKVVFTGAKSRKDIMDCLEAISPILLSFRKT |
| 5863 | sp|Q8N2E6|TOR2X\_HUMAN | MAAATRGCRPWGSLLGLLGLVSAAAAAWDLASLRCTLGAFCECDFRPDLPGLECDLAQHLAGQHLAKALVVKALKAFVRDPAPTKPLVLSLHGWTGTGKSYVSSLLAHYLFQGGLRSPRVHHFSPVLHFPHPSHIERYKKDLKSWVQGNLTACGRSLFLFDEMDKMPPGLMEVLRPFLGSSWVVYGTNYRKAIFIFIRWLLKLGHHGRAPPRRSGALPPAPAAPRPALRAQRAGPAGPGAKG |
| 5864 | sp|P33225|TORA\_ECOLI | MNNNDLFQASRRRFLAQLGGLTVAGMLGPSLLTPRRATAAQAATDAVISKEGILTGSHWGAIRATVKDGRFVAAKPFELDKYPSKMIAGLPDHVHNAARIRYPMVRVDWLRKRHLSDTSQRGDNRFVRVSWDEALDMFYEELERVQKTHGPSALLTASGWQSTGMFHNASGMLAKAIALHGNSVGTGGDYSTGAAQVILPRVVGSMEVYEQQTSWPLVLQNSKTIVLWGSDLLKNQQANWWCPDHDVYEYYAQLKAKVAAGEIEVISIDPVVTSTHEYLGREHVKHIAVNPQTDVPLQLALAHTLYSENLYDKNFLANYCVGFEQFLPYLLGEKDGQPKDAAWAEKLTGIDAETIRGLARQMAANRTQIIAGWCVQRMQHGEQWAWMIVVLAAMLGQIGLPGGGFGFGWHYNGAGTPGRKGVILSGFSGSTSIPPVHDNSDYKGYSSTIPIARFIDAILEPGKVINWNGKSVKLPPLKMCIFAGTNPFHRHQQINRIIEGLRKLETVIAIDNQWTSTCRFADIVLPATTQFERNDLDQYGNHSNRGIIAMKQVVPPQFEARNDFDIFRELCRRFNREEAFTEGLDEMGWLKRIWQEGVQQGKGRGVHLPAFDDFWNNKEYVEFDHPQMFVRHQAFREDPDLEPLGTPSGLIEIYSKTIADMNYDDCQGHPMWFEKIERSHGGPGSQKYPLHLQSVHPDFRLHSQLCESETLRQQYTVAGKEPVFINPQDASARGIRNGDVVRVFNARGQVLAGAVVSDRYAPGVARIHEGAWYDPDKGGEPGALCKYGNPNVLTIDIGTSQLAQATSAHTTLVEIEKYNGTVEQVTAFNGPVEMVAQCEYVPASQVKS |
| 5865 | sp|Q02880|TOP2B\_HUMAN | MAKSGGCGAGAGVGGGNGALTWVTLFDQNNAAKKEESETANKNDSSKKLSVERVYQKKTQLEHILLRPDTYIGSVEPLTQFMWVYDEDVGMNCREVTFVPGLYKIFDEILVNAADNKQRDKNMTCIKVSIDPESNIISIWNNGKGIPVVEHKVEKVYVPALIFGQLLTSSNYDDDEKKVTGGRNGYGAKLCNIFSTKFTVETACKEYKHSFKQTWMNNMMKTSEAKIKHFDGEDYTCITFQPDLSKFKMEKLDKDIVALMTRRAYDLAGSCRGVKVMFNGKKLPVNGFRSYVDLYVKDKLDETGVALKVIHELANERWDVCLTLSEKGFQQISFVNSIATTKGGRHVDYVVDQVVGKLIEVVKKKNKAGVSVKPFQVKNHIWVFINCLIENPTFDSQTKENMTLQPKSFGSKCQLSEKFFKAASNCGIVESILNWVKFKAQTQLNKKCSSVKYSKIKGIPKLDDANDAGGKHSLECTLILTEGDSAKSLAVSGLGVIGRDRYGVFPLRGKILNVREASHKQIMENAEINNIIKIVGLQYKKSYDDAESLKTLRYGKIMIMTDQDQDGSHIKGLLINFIHHNWPSLLKHGFLEEFITPIVKASKNKQELSFYSIPEFDEWKKHIENQKAWKIKYYKGLGTSTAKEAKEYFADMERHRILFRYAGPEDDAAITLAFSKKKIDDRKEWLTNFMEDRRQRRLHGLPEQFLYGTATKHLTYNDFINKELILFSNSDNERSIPSLVDGFKPGQRKVLFTCFKRNDKREVKVAQLAGSVAEMSAYHHGEQALMMTIVNLAQNFVGSNNINLLQPIGQFGTRLHGGKDAASPRYIFTMLSTLARLLFPAVDDNLLKFLYDDNQRVEPEWYIPIIPMVLINGAEGIGTGWACKLPNYDAREIVNNVRRMLDGLDPHPMLPNYKNFKGTIQELGQNQYAVSGEIFVVDRNTVEITELPVRTWTQVYKEQVLEPMLNGTDKTPALISDYKEYHTDTTVKFVVKMTEEKLAQAEAAGLHKVFKLQTTLTCNSMVLFDHMGCLKKYETVQDILKEFFDLRLSYYGLRKEWLVGMLGAESTKLNNQARFILEKIQGKITIENRSKKDLIQMLVQRGYESDPVKAWKEAQEKAAEEDETQNQHDDSSSDSGTPSGPDFNYILNMSLWSLTKEKVEELIKQRDAKGREVNDLKRKSPSDLWKEDLAAFVEELDKVESQEREDVLAGMSGKAIKGKVGKPKVKKLQLEETMPSPYGRRIIPEITAMKADASKKLLKKKKGDLDTAAVKVEFDEEFSGAPVEGAGEEALTPSVPINKGPKPKREKKEPGTRVRKTPTSSGKPSAKKVKKRNPWSDDESKSESDLEETEPVVIPRDSLLRRAAAERPKYTFDFSEEEDDDADDDDDDNNDLEELKVKASPITNDGEDEFVPSDGLDKDEYTFSPGKSKATPEKSLHDKKSQDFGNLFSFPSYSQKSEDDSAKFDSNEEDSASVFSPSFGLKQTDKVPSKTVAAKKGKPSSDTVPKPKRAPKQKKVVEAVNSDSDSEFGIPKKTTTPKGKGRGAKKRKASGSENEGDYNPGRKTSKTTSKKPKKTSFDQDSDVDIFPSDFPTEPPSLPRTGRARKEVKYFAESDEEEDDVDFAMFN |
| 5866 | sp|Q64511|TOP2B\_MOUSE | MAKSSLAGSDGALTWVNNATKKEELETANKNDSTKKLSVERVYQKKTQLEHILLRPDTYIGSVEPLTQLMWVYDEDVGMNCREVTFVPGLYKIFDEILVNAADNKQRDKNMTCIKVSIDPESNIISIWNNGKGIPVVEHKVEKVYVPALIFGQLLTSSNYDDDEKKVTGGRNGYGAKLCNIFSTKFTVETACKEYKHSFKQTWMNNMMKTSEAKIKHFDGEDYTCITFQPDLSKFKMEKLDKDIVALMTRRAYDLAGSCKGVKVMFNGKKLPVNGFRSYVDLYVKDKLDETGVALKVIHELANERWDVCLTLSEKGFQQISFVNSIATTKGGRHVDYVVDQVVSKLIEVVKKKNKAGVSVKPFQVKNHIWVFINCLIENPTFDSQTKENMTLQPKSFGSKCQLSEKFFKAASNCGIVESILNWVKFKAQTQLNKKCSSVKYSKIKGIPKLDDANDAGGKHSLECTLILTEGDSAKSLAVSGLGVIGRDRYGVFPLRGKILNVREASHKQIMENAEINNIIKIVGLQYKKSYDDAESLKTLRYGKIMIMTDQDQDGSHIKGLLINFIHHNWPSLLKHGFLEEFITPIVKASKNKQELSFYSIPEFDEWKKHIENQKAWKIKYYKGLGTSTAKEAKEYFADMERHRILFRYAGPEDDAAITLAFSKKKIDDRKEWLTNFMEDRRQRRLHGLPEQFLYGTATKHLTYNDFINKELILFSNSDNERSIPSLVDGFKPGQRKVLFTCFKRNDKREVKVAQLAGSVAEMSAYHHGEQALMMTIVNLAQNFVGSNNINLLQPIGQFGTRLHGGKDAASPRYIFTMLSSLARLLFPAVDDNLLKFLYDDNQRVEPEWYIPIIPMVLINGAEGIGTGWACKLPNYDAREIVNNVRRMLEGLDPHPMLPNYKNFKGTIQELGQNQYAVSGEIFVVDRNTVEITELPVRTWTQVYKEQVLEPMLNGTDKTPALISDYKEYHTDTTVKFVVKMTEEKLAQAEAAGLHKVFKLQTTLTCNSMVLFDHMGCLKKYETVQDILKEFFDLRLSYYGLRKEWLVGMLGAESTKLNNQARFILEKIQGKITIENRSKKDLIQMLVQRGYESDPVKAWKEAQEKAAEEEDSQNQHDDSSSDSGTPSGPDFNYILNMSLWSLTKEKVEELIKQRDTKGREVNDLKRKSPSDLWKEDLAAFVEELDKVEAQEREDILAGMSGKAIKGKVGKPKVKKLQLEETMPSPYGRRIVPEITAMKADASRKLLKKKKGDPDTTVVKVEFDEEFSGTPAEGTGEETLTPSAPVNKGPKPKREKKEPGTRVRKTPTSTGKTNAKKVKKRNPWSDDESKSESDLEEAEPVVIPRDSLLRRAAAERPKYTFDFSEEEDDDAAAADDSNDLEELKVKASPITNDGEDEFVPSDGLDKDEYAFSSGKSKATPEKSSNDKKSQDFGNLFSFPSYSQKSEDDSAKFDSNEEDTASVFAPSFGLKQTDKLPSKTVAAKKGKPPSDTAPKAKRAPKQKKIVETINSDSDSEFGIPKKTTTPKGKGRGAKKRKASGSENEGDYNPGRKPSKTASKKPKKTSFDQDSDVDIFPSDFTSEPPALPRTGRARKEVKYFAESDEEEDVDFAMFN |
| 5867 | sp|Q6ZMU5|TRI72\_HUMAN | MSAAPGLLHQELSCPLCLQLFDAPVTAECGHSFCRACLGRVAGEPAADGTVLCPCCQAPTRPQALSTNLQLARLVEGLAQVPQGHCEEHLDPLSIYCEQDRALVCGVCASLGSHRGHRLLPAAEAHARLKTQLPQQKLQLQEACMRKEKSVAVLEHQLVEVEETVRQFRGAVGEQLGKMRVFLAALEGSLDREAERVRGEAGVALRRELGSLNSYLEQLRQMEKVLEEVADKPQTEFLMKYCLVTSRLQKILAESPPPARLDIQLPIISDDFKFQVWRKMFRALMPALEELTFDPSSAHPSLVVSSSGRRVECSEQKAPPAGEDPRQFDKAVAVVAHQQLSEGEHYWEVDVGDKPRWALGVIAAEAPRRGRLHAVPSQGLWLLGLREGKILEAHVEAKEPRALRSPERRPTRIGLYLSFGDGVLSFYDASDADALVPLFAFHERLPRPVYPFFDVCWHDKGKNAQPLLLVGPEGAEA |
| 5868 | sp|P56855|TX1\_STRGF | TCRYLFGGCKTTADCCKHLACRSDGKYCAWDGTF |
| 5869 | sp|P0DL72|TX15\_GRAPO | DCLGFMRKCIPDNDKCCRPNLVCSRTHKWCKYVF |
| 5870 | sp|A0A2L0ART2|TXF1A\_SCOSU | MEKKIIFLVFLVALLALPGFISTEVIKKDTPYKKRKFPYKSECLKACATSFTGGDESRIQEGKPGFFKCTCYFTTG |
| 5871 | sp|P10074|TZAP\_HUMAN | MDGSFVQHSVRVLQELNKQREKGQYCDATLDVGGLVFKAHWSVLACCSHFFQSLYGDGSGGSVVLPAGFAEIFGLLLDFFYTGHLALTSGNRDQVLLAARELRVPEAVELCQSFKPKTSVGQAAGGQSGLGPPASQNVNSHVKEPAGLEEEEVSRTLGLVPRDQEPRGSHSPQRPQLHSPAQSEGPSSLCGKLKQALKPCPLEDKKPEDCKVPPRPLEAEGAQLQGGSNEWEVVVQVEDDGDGDYMSEPEAVLTRRKSNVIRKPCAAEPALSAGSLAAEPAENRKGTAVPVECPTCHKKFLSKYYLKVHNRKHTGEKPFECPKCGKCYFRKENLLEHEARNCMNRSEQVFTCSVCQETFRRRMELRVHMVSHTGEMPYKCSSCSQQFMQKKDLQSHMIKLHGAPKPHACPTCAKCFLSRTELQLHEAFKHRGEKLFVCEECGHRASSRNGLQMHIKAKHRNERPHVCEFCSHAFTQKANLNMHLRTHTGEKPFQCHLCGKTFRTQASLDKHNRTHTGERPFSCEFCEQRFTEKGPLLRHVASRHQEGRPHFCQICGKTFKAVEQLRVHVRRHKGVRKFECTECGYKFTRQAHLRRHMEIHDRVENYNPRQRKLRNLIIEDEKMVVVALQPPAELEVGSAEVIVESLAQGGLASQLPGQRLCAEESFTGPGVLEPSLIITAAVPEDCDT |
| 5872 | sp|Q8K558|TRML1\_MOUSE | MDCYLLLLLLLLGLAGQGSADSHPEVLQAPVGSSILVQCHYRLQDVRALKVWCQFLQEGCHPLVTSAVDRRAPGNGRIFLTDLGGGLLQVEMVTLQEEDTGEYGCVVEGAAGPQTLHRVSLLVLPPVPGPREGEEAEDEKETYRIGTGSLLEDPSLDPSASAGPHEFRRRENSIPLIWGAVLLLALVVVAVVIFAVMARKKGNRLVVCGPSQSTGVPGMDPPSAAHRSSDSGLPSDIPHVRLDSPPSFDSIYTGSSLDPPSSEPPAPPSQPPLPPKVLMSSKSVTYATVVFPGGDKGKIASCEPVQDPPNSQTPPSK |
| 5873 | sp|Q9FT81|TT8\_ARATH | MDESSIIPAEKVAGAEKKELQGLLKTAVQSVDWTYSVFWQFCPQQRVLVWGNGYYNGAIKTRKTTQPAEVTAEEAALERSQQLRELYETLLAGESTSEARACTALSPEDLTETEWFYLMCVSFSFPPPSGMPGKAYARRKHVWLSGANEVDSKTFSRAILAKSAKIQTVVCIPMLDGVVELGTTKKVREDVEFVELTKSFFYDHCKTNPKPALSEHSTYEVHEEAEDEEEVEEEMTMSEEMRLGSPDDEDVSNQNLHSDLHIESTHTLDTHMDMMNLMEEGGNYSQTVTTLLMSHPTSLLSDSVSTSSYIQSSFATWRVENGKEHQQVKTAPSSQWVLKQMIFRVPFLHDNTKDKRLPREDLSHVVAERRRREKLNEKFITLRSMVPFVTKMDKVSILGDTIAYVNHLRKRVHELENTHHEQQHKRTRTCKRKTSEEVEVSIIENDVLLEMRCEYRDGLLLDILQVLHELGIETTAVHTSVNDHDFEAEIRAKVRGKKASIAEVKRAIHQVIIHDTNL |
| 5874 | sp|Q9C9B9|TTM1\_ARATH | MALDSSVALSPRRRHGLLRDQVQLIKRKDSGRYEIVPIEDPLSFEKGFYAVIRACQLLAQKNDGLILVGLAGPSGAGKTIFTEKILNFMPSIAIINMDNYNDGTRVIDGNFDDPRLTDYDTLLDNIHGLRDGKPVQVPIYDFKSSSRIGYRTLEVPSSRIVILEGIYALSEKLRPLLDLRVSVTGGVHFDLVKRVLRDIQRAGQEPEEIIHQISETVYPMYKAFIEPDLKTAQIKILNKFNPFSGFQNPTYILKSSKAVTPEQMKAALSEDFKERTEETYDIYLLPPGEDPEACQSYLRMRNRDGKYNLMFEEWVTDRPFIISPRITFEVSVRLLGGLMALGYTIATILKRKSHIFDDDKVIVKTDWLEQLNRTYVQVQGKDRTFVKNVADQLGLEGSYVPHTYIEQIQLERLVNDVLALPDDLKTKLSLDDDTVSSPKEALSRASVDSRMKYLHGGVSKSYTNPRHKVLPNLTRLAVNNRMLDARAPASPATLPNQGFITQLSDQISTLNERMDEFTSRIEELNSKIPNRIAPSGSQHNLALPIENGNGSVLSFSASASQLVRESPLMEEVVLVARGQRQIMHQMDTLSNLLREYVGEKTRIERLDSSRTNSTTQNLESSTVPILLGLAIGCVGIFAYSRLK |
| 5875 | sp|Q86VQ6|TRXR3\_HUMAN | MERSPPQSPGPGKAGDAPNRRSGHVRGARVLSPPGRRARLSSPGPSRSSEAREELRRHLVGLIERSRVVIFSKSYCPHSTRVKELFSSLGVECNVLELDQVDDGARVQEVLSEITNQKTVPNIFVNKVHVGGCDQTFQAYQSGLLQKLLQEDLAYDYDLIIIGGGSGGLSCAKEAAILGKKVMVLDFVVPSPQGTSWGLGGTCVNVGCIPKKLMHQAALLGQALCDSRKFGWEYNQQVRHNWETMTKAIQNHISSLNWGYRLSLREKAVAYVNSYGEFVEHHKIKATNKKGQETYYTAAQFVIATGERPRYLGIQGDKEYCITSDDLFSLPYCPGKTLVVGASYVALECAGFLAGFGLDVTVMVRSILLRGFDQEMAEKVGSYMEQHGVKFLRKFIPVMVQQLEKGSPGKLKVLAKSTEGTETIEGVYNTVLLAIGRDSCTRKIGLEKIGVKINEKSGKIPVNDVEQTNVPYVYAVGDILEDKPELTPVAIQSGKLLAQRLFGASLEKCDYINVPTTVFTPLEYGCCGLSEEKAIEVYKKENLEIYHTLFWPLEWTVAGRENNTCYAKIICNKFDHDRVIGFHILGPNAGEVTQGFAAAMKCGLTKQLLDDTIGIHPTCGEVFTTLEITKSSGLDITQKGCUG |
| 5876 | sp|Q6PF05|TT23L\_HUMAN | MQASPIRIPTVSNDIDWDFCFHMSQQTEIPAHQQTDELYPTGGCGESEEETKAKEKEKAIDCMSHPKEKLAQSQKKVAQLIKEKMNTQANKELIRCVILSRIIFGDHHWKCARALANLAYGYLTLRGLPVQAKKHATSAKNTLLTWKANTTSNKEKEEILEALVKLYYTLGVAWLLQNRGREAYFNLQKAERNMKELKELYKGGVCELQVSENDLTLALGRASLAIHRLNLALAYFEKAIGDVIAAKGDRTSDLISLYEEAAQIEQLRRNHNQAIQYLQQAHSVCVSLFTEVSPKTAEMSALLAKAYAMSGEAQHRDAVEIYFIRSINAYRATLGSEDFETLSTTEEFCKWLVQNGEKQDK |
| 5877 | sp|O95551|TYDP2\_HUMAN | MELGSCLEGGREAAEEEGEPEVKKRRLLCVEFASVASCDAAVAQCFLAENDWEMERALNSYFEPPVEESALERRPETISEPKTYVDLTNEETTDSTTSKISPSEDTQQENGSMFSLITWNIDGLDLNNLSERARGVCSYLALYSPDVIFLQEVIPPYYSYLKKRSSNYEIITGHEEGYFTAIMLKKSRVKLKSQEIIPFPSTKMMRNLLCVHVNVSGNELCLMTSHLESTRGHAAERMNQLKMVLKKMQEAPESATVIFAGDTNLRDREVTRCGGLPNNIVDVWEFLGKPKHCQYTWDTQMNSNLGITAACKLRFDRIFFRAAAEEGHIIPRSLDLLGLEKLDCGRFPSDHWGLLCNLDIIL |
| 5878 | sp|Q8C7R4|UBA6\_MOUSE | MERSEPLAVLSCEEASCSSWGACGASKNLPTMTTESLEIDDGLYSRQRYVLGDTAMQKMAKSCVFLSGMGGLGVEIAKNLVLAGIKALTIHDTKKCQAWDLGTNFFLCEDDVVNERNRAEAVLHRIAELNPYVQVSSSSAPLDETTDLSFLEKYQCVVLTEIKLTLQKKINNFCHSHCPPIKFISADVHGIWSRLFCDFGDEFEVSDTTGEEPKEIFISNITQANPGIVTCLESHPHKLETGQFLTFREIHGMTGLNGSVQQITVISPFSFSIGDTTKLDPYLHGGIAVQVKTPKTFCFEPLESQIKHPRCLIADFSKPEAPLEIHLAMLALDQFQENYNRKPNIRCQQDSDELLKLTVSINETLEEKPEVNADIVHWLSWTAQGFLPPLAAAVGGVASQEVLKAVTGKFSPLCQWLYLEAADTVESLGNPGHEEFLPRGDRYDAIRACIGNTLCQKLQNLNIFLVGCGAIGCEMLKNFALLGVGTGREKGMVTVTDPDLIEKSNLNRQFLFRPHHIQKPKSYTAAEATLKINPQLKIDAHLNKVCPATESIYSDEFYTKQDIIITALDNVEARRYVDSRCLANLRPLLDSGTMGTKGHTEIIVPQLTESYNSHRDPPEEEIPFCTLKSFPAAIEHTIQWARDKFESSFSHKPSLFNKFWQAYPSAEDVLQKIQNGQSLEGCFQVIKLLSRRPRIWSQCVELARLKFEKYFNHKALQLLHCFPLETRLKDGSLFWQSPKRPPSPIKFDLNEPLHLSFLQSAAKLYATVYCIPFSEKDLSVNSLMDILSEVKIEEFKPSNKVVQTDETARKPDHVPVSSEDERNAVFQLEEALSSNKATKSDLQMTVLSFEKDDDRNGHIDFITAASNLRAKMYSIEPADRFKTKRIAGKIIPAIATSTAAVSGLVALEMIKVAGGYPFDAYKNCFLNLAIPIIVFTETSEVRKTEIRNGISFTIWDRWTVHGKEDFTLSDFINAVKENYGIEPTMVVQGVKMLYVPVMPGHAKRLKLTMHKLVKPSTEKKYVDLTVSFAPDADGDEDLPGPPVRYYFSHDTNE |
| 5879 | sp|P61081|UBC12\_HUMAN | MIKLFSLKQQKKEEESAGGTKGSSKKASAAQLRIQKDINELNLPKTCDISFSDPDDLLNFKLVICPDEGFYKSGKFVFSFKVGQGYPHDPPKVKCETMVYHPNIDLEGNVCLNILREDWKPVLTINSIIYGLQYLFLEPNPEDPLNKEAAEVLQNNRRLFEQNVQRSMRGGYIGSTYFERCLK |
| 5880 | sp|O22229|TRXB3\_ARATH | MAASPKIGIGIASVSSPHRVSAASSALSPPPHLFFLTTTTTTRHGGSYLLRQPTRTRSSDSLRLRVSATANSPSSSSSGGEIIENVVIIGSGPAGYTAAIYAARANLKPVVFEGYQMGGVPGGQLMTTTEVENFPGFPDGITGPDLMEKMRKQAERWGAELYPEDVESLSVTTAPFTVQTSERKVKCHSIIYATGATARRLRLPREEEFWSRGISACAICDGASPLFKGQVLAVVGGGDTATEEALYLTKYARHVHLLVRRDQLRASKAMQDRVINNPNITVHYNTETVDVLSNTKGQMSGILLRRLDTGEETELEAKGLFYGIGHSPNSQLLEGQVELDSSGYVLVREGTSNTSVEGVFAAGDVQDHEWRQAVTAAGSGCIAALSAERYLTSNNLLVEFHQPQTEEAKKEFTQRDVQEKFDITLTKHKGQYALRKLYHESPRVILVLYTSPTCGPCRTLKPILNKVVDEYNHDVHFVEIDIEEDQEIAEAAGIMGTPCVQFFKNKEMLRTISGVKMKKEYREFIEANK |
| 5881 | sp|P63279|UBC9\_HUMAN | MSGIALSRLAQERKAWRKDHPFGFVAVPTKNPDGTMNLMNWECAIPGKKGTPWEGGLFKLRMLFKDDYPSSPPKCKFEPPLFHPNVYPSGTVCLSILEEDKDWRPAITIKQILLGIQELLNEPNIQDPAQAEAYTIYCQNRVEYEKRVRAQAKKFAPS |
| 5882 | sp|Q969T4|UB2E3\_HUMAN | MSSDRQRSDDESPSTSSGSSDADQRDPAAPEPEEQEERKPSATQQKKNTKLSSKTTAKLSTSAKRIQKELAEITLDPPPNCSAGPKGDNIYEWRSTILGPPGSVYEGGVFFLDITFSSDYPFKPPKVTFRTRIYHCNINSQGVICLDILKDNWSPALTISKVLLSICSLLTDCNPADPLVGSIATQYLTNRAEHDRIARQWTKRYAT |
| 5883 | sp|P50384|TRPD\_SACS2 | MNINEILKKLINKSDLEINEAEELAKAIIRGEVPEILVSAILVALRMKGESKNEIVGFARAMRELAIKIDVPNAIDTAGTGGDGLGTVNVSTASAILLSLVNPVAKHGNRAVSGKSGSADVLEALGYNIIVPPERAKELVNKTNFVFLFAQYYHPAMKNVANVRKTLGIRTIFNILGPLTNPANAKYQLMGVFSKDHLDLLSKSAYELDFNKIILVYGEPGIDEVSPIGNTFMKIVSKRGIEEVKLNVTDFGISPIPIEKLIVNSAEDSAIKIVRAFLGKDEHVAEFIKINTAVALFALDRVGDFREGYEYADHLIEKSLDKLNEIISMNGDVTKLKTIVVKSSG |
| 5884 | sp|Q8CFI2|UB2R1\_MOUSE | MARPLVPSSQKALLLELKGLQEEPVEGFRVTLVDEGDLYNWEVAIFGPPNTYYEGGYFKARLKFPIDYPYSPPAFRFLTKMWHPNIYETGDVCISILHPPVDDPQSGELPSERWNPTQNVRTILLSVISLLNEPNTFSPANVDASVMYRKWKESKGKDREYTDIIRKQVLGTKVDAERDGVKVPTTLAEYCVKTKAPAPDEGSDLFYDDYYEDGEVEEADSCFGDEEDDSGTEES |
| 5885 | sp|Q94218|UFSP\_CAEEL | MTNSQTVSLIGPTQMAPQSTPPPPVNELWFIDAQAMFQNYANLRSFSKSNANEINTTIGGFVFGRKARKQVIHVLFAYAEDLTESNRQFLESSLSADIELVGNLNIDGQSQILPGGQFTLQLTSRMLENRSISEFLDMNVMFNNEHVLMEGASCVSRVGYEWSLRAGREQEDVKSAAERLSMASFRFTYLNAEHGLVIREQKPEAAQQKYLDKFSKGAVPYKDVIEFTAMQSLTRDTSNDTEDQKLVPTVKVTKDNKHFTRLVTIGEVVFPAFFGDSSLDLYKRSREAFNRRANNTMMVTVNGIRAGRGVTTTTSATYLPPGWVSLLHLQLPTKWTDNEQRNYRIRLHKLFNLPSSKPVLRLSQALALHSESARLTNKKLIREPHLSITNYQPVGEITTVNGPYNYHHYMQDGIDDSGWGCAYRSFQTIWSWFILNGYTDKPVPSHREIQQALVDIQDKQAKFVGSRQWIGSTEISFVLNELLKLECRFIATNSGAEVVERVRELARHFETSGTPVMIGGNMLAHTILGVDFNDTTGETKFLVLDPHYTGSEDIKTITSKGWCAWKPASFWSKDHFYNMVLPQPPSDAI |
| 5886 | sp|Q9QZL6|UBP21\_MOUSE | MPQASEHRLGRTREPPVNVQPRVGAKIPFPPRARSKERRNPVPGPNSMLRPLPPRPGPPDERLKKLELGRGRTSGSRPRGPLRADHGVPLPGSPPPAVALPLPSRTNLARSKSVSSGDLRPMGIALGGHRGAGELGAALSRLALRPEPPTLRRSTSLRRLGGFPGPPTLLSIRTEPPTSHGSFHMISARPSEPFYSDDKMAHHTLLLGSGHVGLRNLGNTCFLNAVLQCLSSTRPLRDFCLRRDFRQEVPGGGRAQELTEAFADVIGALWHPDSCEAVNPTRFRAVFQKYVPSFSGYSQQDAQEFLKLLMERLHLEINRRGRRAPPILASGPVPSPPRRGGGALHEEPELSDDDRANLMWKRYLEREDSKIVDLFVGQLKSCLKCQACGYRSTTFEVFCDLSLPIPKKGFAGGKVSLRDCFSLFTKEEELESENAPVCDRCRQKTRSTKKLTVQRFPRILVLHLNRFSTSRGSIKKSSVGVDFPLQRLSLGDFASDKAGSPVYQLYALCNHSGSVHYGHYTALCRCQTGWHVYNDSRVSPVSENQVASSEGYVLFYQLMQEPLRCL |
| 5887 | sp|A6XNC6|UGFGT\_MEDTR | MSTFKNEMNGNNLLHVAVLAFPFGTHAAPLLSLVKKIATEAPKVTFSFFCTTTTNDTLFSRSNEFLPNIKYYNVHDGLPKGYVSSGNPREPIFLFIKAMQENFKHVIDEAVAETGKNITCLVTDAFFWFGADLAEEMHAKWVPLWTAGPHSLLTHVYTDLIREKTGSKEVHDVKSIDVLPGFPELKASDLPEGVIKDIDVPFATMLHKMGLELPRANAVAINSFATIHPLIENELNSKFKLLLNVGPFNLTTPQRKVSDEHGCLEWLDQHENSSVVYISFGSVVTPPPHELTALAESLEECGFPFIWSFRGDPKEKLPKGFLERTKTKGKIVAWAPQVEILKHSSVGVFLTHSGWNSVLECIVGGVPMISRPFFGDQGLNTILTESVLEIGVGVDNGVLTKESIKKALELTMSSEKGGIMRQKIVKLKESAFKAVEQNGTSAMDFTTLIQIVTS |
| 5888 | sp|Q9H9P5|UNKL\_HUMAN | MPSVSKAAAAALSGSPPQTEKPTHYRYLKEFRTEQCPLFSQHKCAQHRPFTCFHWHFLNQRRRRPLRRRDGTFNYSPDVYCSKYNEATGVCPDGDECPYLHRTTGDTERKYHLRYYKTGTCIHETDARGHCVKNGLHCAFAHGPLDLRPPVCDVRELQAQEALQNGQLGGGEGVPDLQPGVLASQAMIEKILSEDPRWQDANFVLGSYKTEQCPKPPRLCRQGYACPHYHNSRDRRRNPRRFQYRSTPCPSVKHGDEWGEPSRCDGGDGCQYCHSRTEQQFHPESTKCNDMRQTGYCPRGPFCAFAHVEKSLGMVNEWGCHDLHLTSPSSTGSGQPGNAKRRDSPAEGGPRGSEQDSKQNHLAVFAAVHPPAPSVSSSVASSLASSAGSGSSSPTALPAPPARALPLGPASSTVEAVLGSALDLHLSNVNIASLEKDLEEQDGHDLGAAGPRSLAGSAPVAIPGSLPRAPSLHSPSSASTSPLGSLSQPLPGPVGSSAMTPPQQPPPLRSEPGTLGSAASSYSPLGLNGVPGSIWDFVSGSFSPSPSPILSAGPPSSSSASPNGAELARVRRQLDEAKRKIRQWEESWQQVKQVCDAWQREAQEAKERARVADSDRQLALQKKEEVEAQVIFQLRAKQCVACRERAHGAVLRPCQHHILCEPCAATAPECPYCKGQPLQW |
| 5889 | sp|Q9T0A7|UGE2\_ARATH | MAKSVLVTGGAGYIGSHTVLQLLEGGYSAVVVDNYDNSSAASLQRVKKLAGENGNRLSFHQVDLRDRPALEKIFSETKFDAVIHFAGLKAVGESVEKPLLYYNNNIVGTVTLLEVMAQYGCKNLVFSSSATVYGWPKEVPCTEESPISATNPYGRTKLFIEEICRDVHRSDSEWKIILLRYFNPVGAHPSGYIGEDPLGVPNNLMPYVQQVAVGRRPHLTVFGTDYKTKDGTGVRDYIHVMDLADGHIAALRKLDDLKISCEVYNLGTGNGTSVLEMVAAFEKASGKKIPLVMAGRRPGDAEVVYASTEKAERELNWKAKNGIEEMCRDLWNWASNNPYGYNSSSNGSSS |
| 5890 | sp|Q16851|UGPA\_HUMAN | MSRFVQDLSKAMSQDGASQFQEVIRQELELSVKKELEKILTTASSHEFEHTKKDLDGFRKLFHRFLQEKGPSVDWGKIQRPPEDSIQPYEKIKARGLPDNISSVLNKLVVVKLNGGLGTSMGCKGPKSLIGVRNENTFLDLTVQQIEHLNKTYNTDVPLVLMNSFNTDEDTKKILQKYNHCRVKIYTFNQSRYPRINKESLLPVAKDVSYSGENTEAWYPPGHGDIYASFYNSGLLDTFIGEGKEYIFVSNIDNLGATVDLYILNHLMNPPNGKRCEFVMEVTNKTRADVKGGTLTQYEGKLRLVEIAQVPKAHVDEFKSVSKFKIFNTNNLWISLAAVKRLQEQNAIDMEIIVNAKTLDGGLNVIQLETAVGAAIKSFENSLGINVPRSRFLPVKTTSDLLLVMSNLYSLNAGSLTMSEKREFPTVPLVKLGSSFTKVQDYLRRFESIPDMLELDHLTVSGDVTFGKNVSLKGTVIIIANHGDRIDIPPGAVLENKIVSGNLRILDH |
| 5891 | sp|P09936|UCHL1\_HUMAN | MQLKPMEINPEMLNKVLSRLGVAGQWRFVDVLGLEEESLGSVPAPACALLLLFPLTAQHENFRKKQIEELKGQEVSPKVYFMKQTIGNSCGTIGLIHAVANNQDKLGFEDGSVLKQFLSETEKMSPEDRAKCFEKNEAIQAAHDAVAQEGQCRVDDKVNFHFILFNNVDGHLYELDGRMPFPVNHGASSEDTLLKDAAKVCREFTEREQGEVRFSAVALCKAA |
| 5892 | sp|Q92738|US6NL\_HUMAN | MNSDQDVALKLAQERAEIVAKYDRGREGAEIEPWEDADYLVYKVTDRFGFLHEEELPDHNVAVERQKHLEIERTTKWLKMLKGWEKYKNTEKFHRRIYKGIPLQLRGEVWALLLEIPKMKEETRDLYSKLKHRARGCSPDIRQIDLDVNRTFRDHIMFRDRYGVKQQSLFHVLAAYSIYNTEVGYCQGMSQITALLLMYMNEEDAFWALVKLFSGPKHAMHGFFVQGFPKLLRFQEHHEKILNKFLSKLKQHLDSQEIYTSFYTMKWFFQCFLDRTPFTLNLRIWDIYIFEGERVLTAMSYTILKLHKKHLMKLSMEELVEFFQETLAKDFFFEDDFVIEQLQISMTELKRAKLDLPEPGKEDEYPKKPLGQLPPELQSWGVHHLSNGQRSVGRPSPLASGRRESGAPHRRHEHSPHPQSRTGTPERAQPPRRKSVEEESKKLKDEADFQRKLPSGPQDSSRQYNHAAANQNSNATSNIRKEFVPKWNKPSDVSATERTAKYTMEGKGRAAHPALAVTVPGPAEVRVSNVRPKMKALDAEDGKRGSTASQYDNVPGPELDSGASVEEALERAYSQSPRHALYPPSPRKHAEPSSSPSKVSNKFTFKVQPPSHARYPSQLDGEARGLAHPPSYSNPPVYHGNSPKHFPTANSSFASPQFSPGTQLNPSRRPHGSTLSVSASPEKSYSRPSPLVLPSSRIEVLPVDTGAGGYSGNSGSPKNGKLIIPPVDYLPDNRTWSEVSYTYRPETQGQSWTRDASRGNLPKYSAFQLAPFQDHGLPAVSVDSPVRYKASPAAEDASPSGYPYSGPPPPAYHYRNRDGLSIQESVLL |
| 5893 | sp|Q03412|UNC7\_CAEEL | MLGSSSNPEPPLLSRIIGVPPPPPPRAPTTALVLRVPTVDSPSKKKQQPDTRNKYQETALRDKKTRTPLEKARHLDNLPSYQAQKLLDGSHQLRIDSHHVGSAGHGAGQGHGHKKEFGPAMILYYLASAFRALYPRLDDDFVDKLNYYYTTTILASFALLVSAKQYVGFPIQCWVPATFTDAMEQYTENYCWVQNTYWVPMQEDIPREIYSRRNRQIGYYQWVPFILAIEALLFYVPCILWRGLLYWHSGINLQGLVQMACDARLMDSEIKTRTVYTMARHMQDEVQLTNIDRQGHSRSCFSNLQLGANCGRHCGCYVTMLYIGIKVLYSANVLLQFFLLNHLLGSNDLAYGFSLLKDLMHAIEWEQTGMFPRVTLCDFEVRVLGNIHRHTVQCVLMINMFNEKIFLFLWFWFLTCGIVTVCNTMYWILIMFIPSQGMSFVRKYLRVLPDHPAKPIADDVTLRKFTNNFLRKDGVFMLRMISTHAGELMSSELILALWQDFNNVDRSPTQFWDAEHGQGTID |
| 5894 | sp|Q93008|USP9X\_HUMAN | MTATTRGSPVGGNDNQGQAPDGQSQPPLQQNQTSSPDSSNENSPATPPDEQGQGDAPPQLEDEEPAFPHTDLAKLDDMINRPRWVVPVLPKGELEVLLEAAIDLSKKGLDVKSEACQRFFRDGLTISFTKILTDEAVSGWKFEIHRCIINNTHRLVELCVAKLSQDWFPLLELLAMALNPHCKFHIYNGTRPCESVSSSVQLPEDELFARSPDPRSPKGWLVDLLNKFGTLNGFQILHDRFINGSALNVQIIAALIKPFGQCYEFLTLHTVKKYFLPIIEMVPQFLENLTDEELKKEAKNEAKNDALSMIIKSLKNLASRVPGQEETVKNLEIFRLKMILRLLQISSFNGKMNALNEVNKVISSVSYYTHRHGNPEEEEWLTAERMAEWIQQNNILSIVLRDSLHQPQYVEKLEKILRFVIKEKALTLQDLDNIWAAQAGKHEAIVKNVHDLLAKLAWDFSPEQLDHLFDCFKASWTNASKKQREKLLELIRRLAEDDKDGVMAHKVLNLLWNLAHSDDVPVDIMDLALSAHIKILDYSCSQDRDTQKIQWIDRFIEELRTNDKWVIPALKQIREICSLFGEAPQNLSQTQRSPHVFYRHDLINQLQHNHALVTLVAENLATYMESMRLYARDHEDYDPQTVRLGSRYSHVQEVQERLNFLRFLLKDGQLWLCAPQAKQIWKCLAENAVYLCDREACFKWYSKLMGDEPDLDPDINKDFFESNVLQLDPSLLTENGMKCFERFFKAVNCREGKLVAKRRAYMMDDLELIGLDYLWRVVIQSNDDIASRAIDLLKEIYTNLGPRLQVNQVVIHEDFIQSCFDRLKASYDTLCVLDGDKDSVNCARQEAVRMVRVLTVLREYINECDSDYHEERTILPMSRAFRGKHLSFVVRFPNQGRQVDDLEVWSHTNDTIGSVRRCILNRIKANVAHTKIELFVGGELIDPADDRKLIGQLNLKDKSLITAKLTQISSNMPSSPDSSSDSSTGSPGNHGNHYSDGPNPEVESCLPGVIMSLHPRYISFLWQVADLGSSLNMPPLRDGARVLMKLMPPDSTTIEKLRAICLDHAKLGESSLSPSLDSLFFGPSASQVLYLTEVVYALLMPAGAPLADDSSDFQFHFLKSGGLPLVLSMLTRNNFLPNADMETRRGAYLNALKIAKLLLTAIGYGHVRAVAEACQPGVEGVNPMTQINQVTHDQAVVLQSALQSIPNPSSECMLRNVSVRLAQQISDEASRYMPDICVIRAIQKIIWASGCGSLQLVFSPNEEITKIYEKTNAGNEPDLEDEQVCCEALEVMTLCFALIPTALDALSKEKAWQTFIIDLLLHCHSKTVRQVAQEQFFLMCTRCCMGHRPLLFFITLLFTVLGSTARERAKHSGDYFTLLRHLLNYAYNSNINVPNAEVLLNNEIDWLKRIRDDVKRTGETGIEETILEGHLGVTKELLAFQTSEKKFHIGCEKGGANLIKELIDDFIFPASNVYLQYMRNGELPAEQAIPVCGSPPTINAGFELLVALAVGCVRNLKQIVDSLTEMYYIGTAITTCEALTEWEYLPPVGPRPPKGFVGLKNAGATCYMNSVIQQLYMIPSIRNGILAIEGTGSDVDDDMSGDEKQDNESNVDPRDDVFGYPQQFEDKPALSKTEDRKEYNIGVLRHLQVIFGHLAASRLQYYVPRGFWKQFRLWGEPVNLREQHDALEFFNSLVDSLDEALKALGHPAMLSKVLGGSFADQKICQGCPHRYECEESFTTLNVDIRNHQNLLDSLEQYVKGDLLEGANAYHCEKCNKKVDTVKRLLIKKLPPVLAIQLKRFDYDWERECAIKFNDYFEFPRELDMEPYTVAGVAKLEGDNVNPESQLIQQSEQSESETAGSTKYRLVGVLVHSGQASGGHYYSYIIQRNGGDGERNRWYKFDDGDVTECKMDDDEEMKNQCFGGEYMGEVFDHMMKRMSYRRQKRWWNAYILFYERMDTIDQDDELIRYISELAITTRPHQIIMPSAIERSVRKQNVQFMHNRMQYSMEYFQFMKKLLTCNGVYLNPPPGQDHLLPEAEEITMISIQLAARFLFTTGFHTKKVVRGSASDWYDALCILLRHSKNVRFWFAHNVLFNVSNRFSEYLLECPSAEVRGAFAKLIVFIAHFSLQDGPCPSPFASPGPSSQAYDNLSLSDHLLRAVLNLLRREVSEHGRHLQQYFNLFVMYANLGVAEKTQLLKLSVPATFMLVSLDEGPGPPIKYQYAELGKLYSVVSQLIRCCNVSSRMQSSINGNPPLPNPFGDPNLSQPIMPIQQNVADILFVRTSYVKKIIEDCSNSEETVKLLRFCCWENPQFSSTVLSELLWQVAYSYTYELRPYLDLLLQILLIEDSWQTHRIHNALKGIPDDRDGLFDTIQRSKNHYQKRAYQCIKCMVALFSNCPVAYQILQGNGDLKRKWTWAVEWLGDELERRPYTGNPQYTYNNWSPPVQSNETSNGYFLERSHSARMTLAKACELCPEEVKKATSVQQIEMEESKEPDDQDAPDEHESPPPEDAPLYPHSPGSQYQQNNHVHGQPYTGPAAHHMNNPQRTGQRAQENYEGSEEVSPPQTKDQ |
| 5895 | sp|Q9C0C9|UBE2O\_HUMAN | MADPAAPTPAAPAPAQAPAPAPEAVPAPAAAPVPAPAPASDSASGPSSDSGPEAGSQRLLFSHDLVSGRYRGSVHFGLVRLIHGEDSDSEGEEEGRGSSGCSEAGGAGHEEGRASPLRRGYVRVQWYPEGVKQHVKETKLKLEDRSVVPRDVVRHMRSTDSQCGTVIDVNIDCAVKLIGTNCIIYPVNSKDLQHIWPFMYGDYIAYDCWLGKVYDLKNQIILKLSNGARCSMNTEDGAKLYDVCPHVSDSGLFFDDSYGFYPGQVLIGPAKIFSSVQWLSGVKPVLSTKSKFRVVVEEVQVVELKVTWITKSFCPGGTDSVSPPPSVITQENLGRVKRLGCFDHAQRQLGERCLYVFPAKVEPAKIAWECPEKNCAQGEGSMAKKVKRLLKKQVVRIMSCSPDTQCSRDHSMEDPDKKGESKTKSEAESASPEETPDGSASPVEMQDEGAEEPHEAGEQLPPFLLKEGRDDRLHSAEQDADDEAADDTDDTSSVTSSASSTTSSQSGSGTSRKKSIPLSIKNLKRKHKRKKNKITRDFKPGDRVAVEVVTTMTSADVMWQDGSVECNIRSNDLFPVHHLDNNEFCPGDFVVDKRVQSCPDPAVYGVVQSGDHIGRTCMVKWFKLRPSGDDVELIGEEEDVSVYDIADHPDFRFRTTDIVIRIGNTEDGAPHKEDEPSVGQVARVDVSSKVEVVWADNSKTIILPQHLYNIESEIEESDYDSVEGSTSGASSDEWEDDSDSWETDNGLVEDEHPKIEEPPIPPLEQPVAPEDKGVVISEEAATAAVQGAVAMAAPMAGLMEKAGKDGPPKSFRELKEAIKILESLKNMTVEQLLTGSPTSPTVEPEKPTREKKFLDDIKKLQENLKKTLDNVAIVEEEKMEAVPDVERKEDKPEGQSPVKAEWPSETPVLCQQCGGKPGVTFTSAKGEVFSVLEFAPSNHSFKKIEFQPPEAKKFFSTVRKEMALLATSLPEGIMVKTFEDRMDLFSALIKGPTRTPYEDGLYLFDIQLPNIYPAVPPHFCYLSQCSGRLNPNLYDNGKVCVSLLGTWIGKGTERWTSKSSLLQVLISIQGLILVNEPYYNEAGFDSDRGLQEGYENSRCYNEMALIRVVQSMTQLVRRPPEVFEQEIRQHFSTGGWRLVNRIESWLETHALLEKAQALPNGVPKASSSPEPPAVAELSDSGQQEPEDGGPAPGEASQGSDSEGGAQGLASASRDHTDQTSETAPDASVPPSVKPKKRRKSYRSFLPEKSGYPDIGFPLFPLSKGFIKSIRGVLTQFRAALLEAGMPECTEDK |
| 5896 | sp|Q9SGQ0|VOZ1\_ARATH | MTGKRSKTNCRSASHKLFKDKAKNRVDDLQGMLLDLQFARKESRPTDVTLLEEQVNQMLREWKSELNEPSPASSLQQGGTLGSFSSDICRLLQLCDEEDDATSKLAAPKPEPADQNLEAGKAAVFQRGYNLVQGKSEHGLPLVDNCKDLSLAAGNNFDGTAPLEYHQQYDLQQEFEPNFNGGFNNCPSYGVVEGPIHISNFIPTICPPPSAFLGPKCALWDCPRPAQGFDWFQDYCSSFHAALAFNEGPPGMNPVVRPGGIGLKDGLLFAALSAKAGGKDVGIPECEGAATAKSPWNAPELFDLTVLESETLREWLFFDKPRRAFESGNRKQRSLPDYNGRGWHESRKQIMVEFGGLKRSYYMDPQPLHHFEWHLYEYEINKCDACALYRLELKLVDGKKTSKGKVSNDSVADLQKQMGRLTAEFPPENNTTNTTNNNKRCIKGRPKVSTKVATGNVQNTVEQANDYGVGEEFNYLVGNLSDYYIP |
| 5897 | sp|P17948|VGFR1\_HUMAN | MVSYWDTGVLLCALLSCLLLTGSSSGSKLKDPELSLKGTQHIMQAGQTLHLQCRGEAAHKWSLPEMVSKESERLSITKSACGRNGKQFCSTLTLNTAQANHTGFYSCKYLAVPTSKKKETESAIYIFISDTGRPFVEMYSEIPEIIHMTEGRELVIPCRVTSPNITVTLKKFPLDTLIPDGKRIIWDSRKGFIISNATYKEIGLLTCEATVNGHLYKTNYLTHRQTNTIIDVQISTPRPVKLLRGHTLVLNCTATTPLNTRVQMTWSYPDEKNKRASVRRRIDQSNSHANIFYSVLTIDKMQNKDKGLYTCRVRSGPSFKSVNTSVHIYDKAFITVKHRKQQVLETVAGKRSYRLSMKVKAFPSPEVVWLKDGLPATEKSARYLTRGYSLIIKDVTEEDAGNYTILLSIKQSNVFKNLTATLIVNVKPQIYEKAVSSFPDPALYPLGSRQILTCTAYGIPQPTIKWFWHPCNHNHSEARCDFCSNNEESFILDADSNMGNRIESITQRMAIIEGKNKMASTLVVADSRISGIYICIASNKVGTVGRNISFYITDVPNGFHVNLEKMPTEGEDLKLSCTVNKFLYRDVTWILLRTVNNRTMHYSISKQKMAITKEHSITLNLTIMNVSLQDSGTYACRARNVYTGEEILQKKEITIRDQEAPYLLRNLSDHTVAISSSTTLDCHANGVPEPQITWFKNNHKIQQEPGIILGPGSSTLFIERVTEEDEGVYHCKATNQKGSVESSAYLTVQGTSDKSNLELITLTCTCVAATLFWLLLTLFIRKMKRSSSEIKTDYLSIIMDPDEVPLDEQCERLPYDASKWEFARERLKLGKSLGRGAFGKVVQASAFGIKKSPTCRTVAVKMLKEGATASEYKALMTELKILTHIGHHLNVVNLLGACTKQGGPLMVIVEYCKYGNLSNYLKSKRDLFFLNKDAALHMEPKKEKMEPGLEQGKKPRLDSVTSSESFASSGFQEDKSLSDVEEEEDSDGFYKEPITMEDLISYSFQVARGMEFLSSRKCIHRDLAARNILLSENNVVKICDFGLARDIYKNPDYVRKGDTRLPLKWMAPESIFDKIYSTKSDVWSYGVLLWEIFSLGGSPYPGVQMDEDFCSRLREGMRMRAPEYSTPEIYQIMLDCWHRDPKERPRFAELVEKLGDLLQANVQQDGKDYIPINAILTGNSGFTYSTPAFSEDFFKESISAPKFNSGSSDDVRYVNAFKFMSLERIKTFEELLPNATSMFDDYQGDSSTLLASPMLKRFTWTDSKPKASLKIDLRVTSKSKESGLSDVSRPSFCHSSCGHVSEGKRRFTYDHAELERKIACCSPPPDYNSVVLYSTPPI |
| 5898 | sp|Q9P253|VPS18\_HUMAN | MASILDEYENSLSRSAVLQPGCPSVGIPHSGYVNAQLEKEVPIFTKQRIDFTPSERITSLVVSSNQLCMSLGKDTLLRIDLGKANEPNHVELGRKDDAKVHKMFLDHTGSHLLIALSSTEVLYVNRNGQKVRPLARWKGQLVESVGWNKALGTESSTGPILVGTAQGHIFEAELSASEGGLFGPAPDLYFRPLYVLNEEGGPAPVCSLEAERGPDGRSFVIATTRQRLFQFIGRAAEGAEAQGFSGLFAAYTDHPPPFREFPSNLGYSELAFYTPKLRSAPRAFAWMMGDGVLYGALDCGRPDSLLSEERVWEYPEGVGPGASPPLAIVLTQFHFLLLLADRVEAVCTLTGQVVLRDHFLEKFGPLKHMVKDSSTGQLWAYTERAVFRYHVQREARDVWRTYLDMNRFDLAKEYCRERPDCLDTVLAREADFCFRQRRYLESARCYALTQSYFEEIALKFLEARQEEALAEFLQRKLASLKPAERTQATLLTTWLTELYLSRLGALQGDPEALTLYRETKECFRTFLSSPRHKEWLFASRASIHELLASHGDTEHMVYFAVIMQDYERVVAYHCQHEAYEEALAVLARHRDPQLFYKFSPILIRHIPRQLVDAWIEMGSRLDARQLIPALVNYSQGGEVQQVSQAIRYMEFCVNVLGETEQAIHNYLLSLYARGRPDSLLAYLEQAGASPHRVHYDLKYALRLCAEHGHHRACVHVYKVLELYEEAVDLALQVDVDLAKQCADLPEEDEELRKKLWLKIARHVVQEEEDVQTAMACLASCPLLKIEDVLPFFPDFVTIDHFKEAICSSLKAYNHHIQELQREMEEATASAQRIRRDLQELRGRYGTVEPQDKCATCDFPLLNRPFYLFLCGHMFHADCLLQAVRPGLPAYKQARLEELQRKLGAAPPPAKGSARAKEAEGGAATAGPSREQLKADLDELVAAECVYCGELMIRSIDRPFIDPQRYEEEQLSWL |
| 5899 | sp|E7FB98|UBIA1\_DANRE | MQEMKPAALSGSNGLNGASGSSVRVPCSRLSRAGRMALDLQSKCAAYVLALRPWSFSASLTPVALGSALAYKLEGSVDLLLLLVCAVAVLLVHGAGNLVNTYYDFSKGIDHKKSDDRTLVDQILKPQDVVMFGAVLYSAGCLCATLLYFLSSLKLEHLALIYFGGLSSSFLYTGGIGLKYVALGDVVILITFGPLAVMFAHAVQVGYLSVLPLVYAVPLALNTEAILHSNNTRDMDSDKQAGIVTLAILLGPTLSYVIYNLLLFVPYLLFCILATRYTISMALPLLTLPMAFPLERQFRCRCYAKIPQKTAKLNLLMGLFYVFGIILAPQGSLPLL |
| 5900 | sp|Q90WC0|VM2HS\_GLOBR | EAPKMCGVTQNWESYEPIKKASQSNLTPAHQRYIELVIVADHGMFTKYNGDSDKIREWVRQMVNTVDEIYSYMYIDVALAGLEIWSNEDLINVQPAAPHTLDSFGKWRERDLLHRIHHDNAMLLTAIDFDGPTIGLAYVGTMCKPKGSTGVVQDHSTINLRVAVTMAHEIGHNLGIHHDTGSCSCGGYSCIMSPVISHEPSKYFSDCSYTQCWDFIMNQKPQCILNKPLRTDTVSTPVSGNELLEAGEECDCGSPGNPCCDAATCKLRQGAQCAEGLCCDQCRFMKEGTICRRARGDDLDDYCNGISAGCPRNPFHA |
| 5901 | sp|Q9UVP6|VPS1\_PLEER | MAFAKLSAFVLALGATVALGESPTHRCLNKRVTCATGQTTANEACCALFPILDDIQTNLFDGAQCGEEVHESLRLTFHDAIAFSPALTNAGQFGGGGADGSMIIFSDTEPNFHANLGIDEIVEAQKPFIARHNISAADFIQFAGAIGVSNCAGAPRLNFFLGRPDATQIPPDGLVPEPFDDVTKILSRMGDAGFSTVEVVWLLASHTIAAADHVDPSIPGTPFDSTPSTFDSQFFLETMLQGTAFPGTPGNQGEVESPLAGEMRLQSDFLLARDSRSACEWQSMVNNMPKIQNRFTQVMKKLSLLGHNQADLIDCSDVIPVPKTLTKAATFPAGKSQADVEIVCNAAATPFPALASDPGPVTAVPPVPPS |
| 5902 | sp|P25515|VATL1\_YEAST | MTELCPVYAPFFGAIGCASAIIFTSLGAAYGTAKSGVGICATCVLRPDLLFKNIVPVIMAGIIAIYGLVVSVLVCYSLGQKQALYTGFIQLGAGLSVGLSGLAAGFAIGIVGDAGVRGSSQQPRLFVGMILILIFAEVLGLYGLIVALLLNSRATQDVVC |
| 5903 | sp|Q9VRP5|UBP36\_DROME | MPVSMAVCETANVVNAALRESLGGNSSAGSSTDQAKSGEDTNGSLQNHIVANAKRILMAKIEYEEVPNYHESVLENLKSKYIVIKPGNPGAINGFSGKNNTGKLVGANGHDNNGARKQAEHPNNQSHHINHHNHQHPTSNPNELPKPKRVLYPRENIRIGWKQSERKWQVGTGMINVGNTCYLNSTLQALLHIPALANWLVSEQAHLADCNVAEPGSGCIICAMTKTLLATQSNQSAVRPFLIYSKLKQICKHMVVGRQEDAHEFLRFLVEAMERAYLMRFRNYKELDQLVKETTPLGQIFGGYLRSEVRCLSCNHVSITFQHFQDLLLDIRKADSLEDAFEGHFSRERLEDMGYKCEGCKKKVSATKQFSLERAPITLCIQLKRFSMIGNKLTKQISFKSRIDLSKYAARSQAAQAQPLTYRLVSMVTHLGASQHCGHYTAIGSTDTGSFYNFDDSYVRPIAMHSVCNTNAYIMFFELDLSQAASPAANRPNGVRLTNGHSTTPVPAATVSSPSPTRFIGPQLPAGGANGYTNGNAQKTAIQFKQQNQQSPQNGLQLGTGKFQDTAKPPLVGAHAKGEATSAPTANGNKSSSPSSNSSSNHKSINQQQYLPISSDDEDIEDEMKPRPTTAQLPSMPNMTENHTEPKAKSPVKIQVKTPVKTPLKSLVPYESASEEEEAPLPNPRKRPSGEDSSESDQESGQTNGHSKTNGSHTNGSASSSVHVNNSKQKTDAIDEIFKSLKKSADSDEDDDEEEPSIQLTNGWHPQKQSQSQSKAPPSPKTPPSPAVIKSKTGIWKVTRNDEVDAIEDDVDVVVVEGSPVKIPTPNKNHRNPFSSSKPSTDSPATPGAKRQKLLNGSALKSHQQPRVGNGYQSNATSNGSTINELLKQSYRGYGSPVLSWNGKPAELEKELLVDAREQRQRDIDDDEENEMDRGRQRKVKSGSAKGNNASNSTPGYNPFQEYEGQKRWNKNGGGGGFPRFYNQNYRQNFQQRNKFKFNRFGGPGSAKFQQQRALQRHLSAGGGFSRRQPSAQQQQQT |
| 5904 | sp|Q7T9D9|VGP\_EBOSU | MGGLSLLQLPRDKFRKSSFFVWVIILFQKAFSMPLGVVTNSTLEVTEIDQLVCKDHLASTDQLKSVGLNLEGSGVSTDIPSATKRWGFRSGVPPKVVSYEAGEWAENCYNLEIKKPDGSECLPPPPDGVRGFPRCRYVHKAQGTGPCPGDYAFHKDGAFFLYDRLASTVIYRGVNFAEGVIAFLILAKPKETFLQSPPIREAVNYTENTSSYYATSYLEYEIENFGAQHSTTLFKIDNNTFVRLDRPHTPQFLFQLNDTIHLHQQLSNTTGRLIWTLDANINADIGEWAFWENKKNLSEQLRGEELSFEALSLNETEDDDAASSRITKGRISDRATRKYSDLVPKNSPGMVPLHIPEGETTLPSQNSTEGRRVGVNTQETITETAATIIGTNGNHMQISTIGIRPSSSQIPSSSPTTAPSPEAQTPTTHTSGPSVMATEEPTTPPGSSPGPTTEAPTLTTPENITTAVKTVLPQESTSNGLITSTVTGILGSLGLRKRSRRQTNTKATGKCNPNLHYWTAQEQHNAAGIAWIPYFGPGAEGIYTEGLMHNQNALVCGLRQLANETTQALQLFLRATTELRTYTILNRKAIDFLLRRWGGTCRILGPDCCIEPHDWTKNITDKINQIIHDFIDNPLPNQDNDDNWWTGWRQWIPAGIGITGIIIAIIALLCVCKLLC |
| 5905 | sp|P00981|VKTHK\_DENPO | SGHLLLLLGLLTLWAELTPVSGAAKYCKLPLRIGPCKRKIPSFYYKWKAKQCLPFDYSGCGGNANRFKTIEECRRTCVG |
| 5906 | sp|P05923|VPU\_HV1BR | MQPIQIAIAALVVAIIIAIVVWSIVIIEYRKILRQRKIDRLIDRLIERAEDSGNESEGEISALVEMGVEMGHHAPWDIDDL |
| 5907 | sp|A0A0H3AIG7|VGRG1\_VIBC3 | MATLAYSIEVEGLEDETLVVRGFHGQESLSNSVFLGQACYGFRYEVQLASRVSNLTAEQMVDKRAELKLYRNSQLVQRVHGIVRAFSQGDIGHHHTFYQLTLVPALERLSLRHNSRIFQKQTVPEILSILLQEMGINDYAFALKRDGVQREFCVQYRESDIDFLHRLAAEEGLVYSFVHEAGKHTLYFSDASDSLSKLPEPIPYNALVGGAIDTPYIHGLTYRTQAEVSEVQLKDYSFKKPAYSFLQTVQGTELDYQQTRYQHFDAPGRYKDDVNGAAFSQIRLDYLRRHAHTATGQSNEPLLRAGYKFDLQEHLDPAMNRDWVVVSINHQGEQPQALQEDGGSGATTYSNQFSLIPGHLHWRAEPQPKPQVDGPMIATVVGPEGEEIFCDEHGRVKIHFPWDRYSNGNEQSSCWVRVSQGWAGSQYGFIAIPRIGHEVIVEFLNGDPDQPIITGRTYHATNTPPYTLPEHKTKTVLRTETHQGEGFNELSFEDQAGKEQIYLHAQKDFDGLIENDQFTQIKHNQHLTVEWESREAVTGEQVLSIEGSLHVKTGKVRVNEAGTEIHVKAGQKVVIEAGSEITVKAGGSFVKVDPAGVHLSGALVNLNSGGSAGSGSGFGGAMPALPGGLEPAVALAPPQTISYQALLQAEQANVPAVKVCPLAAQEATPAVNSITPPPPPPIAPPMAPPQPIMNPQPTANAQPNLGRSTKATPDFPTHFPKSSIGIENELAGLVVAMPANSAQKFGYVKSAQGDALFMLTKDMNQGSYQRPPSLQDGKNYQNWQTHTVELVSYPCEMDDKAAVETRKQAMLWLATHFTTHIDQSNHQPLAPIQSEDGRFVIEITNAKHVIAAGNGISAESQGQTITMTPSGQQATVGVAAKGFGTSATPELRLLESAPWYQKSLKSQFASLTSAENLDDKELAANVFAYLTSIYLKTAELAKKFGIYINEWDPMSEQITPNANGLTDPKVKNAWEILPRTKPSKIVEILSKSDAKAVMKHIKPQLQSRYSESLSKNVFQYFQDGGEVAGHGINNATVGDKHSPELAILFEFRTVPNELQSYLPKTESTTKSEVKLLDQFDPMKRKTVIQQVESLV |
| 5908 | sp|P55222|VFR\_PSEAE | MVAITHTPKLKHLDKLLAHCHRRRYTAKSTIIYAGDRCETLFFIIKGSVTILIEDDDGREMIIGYLNSGDFFGELGLFEKEGSEQERSAWVRAKVECEVAEISYAKFRELSQQDSEILYTLGSQMADRLRKTTRKVGDLAFLDVTGRVARTLLDLCQQPDAMTHPDGMQIKITRQEIGRIVGCSREMVGRVLKSLEEQGLVHVKGKTMVVFGTR |
| 5909 | sp|O60504|VINEX\_HUMAN | MQGPPRSLRAGLSLDDFIPGHLQSHIGSSSRGTRVPVIRNGGSNTLNFQFHDPAPRTVCNGGYTPRRDASQHPDPAWYQTWPGPGSKPSASTKIPASQHTQNWSATWTKDSKRRDKRWVKYEGIGPVDESGMPIAPRSSVDRPRDWYRRMFQQIHRKMPDLQLDWTFEEPPRDPRHLGAQQRPAHRPGPATSSSGRSWDHSEELPRSTFNYRPGAFSTVLQPSNQVLRRREKVDNVWTEESWNQFLQELETGQRPKKPLVDDPGEKPSQPIEVLLERELAELSAELDKDLRAIETRLPSPKSSPAPRRAPEQRPPAGPASAWSSSYPHAPYLGSARSLSPHKMADGGSPFLGRRDFVYPSSTRDPSASNGGGSPARREEKKRKAARLKFDFQAQSPKELTLQKGDIVYIHKEVDKNWLEGEHHGRLGIFPANYVEVLPADEIPKPIKPPTYQVLEYGEAVAQYTFKGDLEVELSFRKGEHICLIRKVNENWYEGRITGTGRQGIFPASYVQVSREPRLRLCDDGPQLPTSPRLTAAARSARHPSSPSALRSPADPIDLGGQTSPRRTGFSFPTQEPRPQTQNLGTPGPALSHSRGPSHPLDLGTSSPNTSQIHWTPYRAMYQYRPQNEDELELREGDRVDVMQQCDDGWFVGVSRRTQKFGTFPGNYVAPV |
| 5910 | sp|Q7Z3J2|VP35L\_HUMAN | MAVFPWHSRNRNYKAEFASCRLEAVPLEFGDYHPLKPITVTESKTKKVNRKGSTSSTSSSSSSSVVDPLSSVLDGTDPLSMFAATADPAALAAAMDSSRRKRDRDDNSVVGSDFEPWTNKRGEILARYTTTEKLSINLFMGSEKGKAGTATLAMSEKVRTRLEELDDFEEGSQKELLNLTQQDYVNRIEELNQSLKDAWASDQKVKALKIVIQCSKLLSDTSVIQFYPSKFVLITDILDTFGKLVYERIFSMCVDSRSVLPDHFSPENANDTAKETCLNWFFKIASIRELIPRFYVEASILKCNKFLSKTGISECLPRLTCMIRGIGDPLVSVYARAYLCRVGMEVAPHLKETLNKNFFDFLLTFKQIHGDTVQNQLVVQGVELPSYLPLYPPAMDWIFQCISYHAPEALLTEMMERCKKLGNNALLLNSVMSAFRAEFIATRSMDFIGMIKECDESGFPKHLLFRSLGLNLALADPPESDRLQILNEAWKVITKLKNPQDYINCAEVWVEYTCKHFTKREVNTVLADVIKHMTPDRAFEDSYPQLQLIIKKVIAHFHDFSVLFSVEKFLPFLDMFQKESVRVEVCKCIMDAFIKHQQEPTKDPVILNALLHVCKTMHDSVNALTLEDEKRMLSYLINGFIKMVSFGRDFEQQLSFYVESRSMFCNLEPVLVQLIHSVNRLAMETRKVMKGNHSRKTAAFVRACVAYCFITIPSLAGIFTRLNLYLHSGQVALANQCLSQADAFFKAAISLVPEVPKMINIDGKMRPSESFLLEFLCNFFSTLLIVPDHPEHGVLFLVRELLNVIQDYTWEDNSDEKIRIYTCVLHLLSAMSQETYLYHIDKVDSNDSLYGGDSKFLAENNKLCETVMAQILEHLKTLAKDEALKRQSSLGLSFFNSILAHGDLRNNKLNQLSVNLWHLAQRHGCADTRTMVKTLEYIKKQSKQPDMTHLTELALRLPLQTRT |
| 5911 | sp|P42839|VNX1\_YEAST | MAKNNHISASGNSTSGDHRLKEEVLTPTTSASTPHRIFSVDDDPKEIQNDIRYLEGLHEGLKFALHANKSKRSVSSQSPIVHSSNNTLHHHEHQQHLPPTLESLSSKSHSVPDLNTATPSSPKRMHSSIRELPHDDNDDEDANDDSRFIIHDSHGHDLLIDEINCQSPSHLENNDQASNASSTESFTLRERQDAINETHPFGIRIWKPALYKKHRSVQRTAAQDIHETQLKTITWEVTCSNVLWFILFGFPIAILFYSAAIVVFLLGGGGLVTNSAKEYSKCLYKLANYFLWPFGKMVYLLQDEQYLQEDKDEGISMQQFYNWVTSYSNRLVFHQSQAKFQQREDHPAPATESSSLMPPANTTATPLNSNHPSYNSIRHEIPHAAAQRRYFGRGKWSWGRVLFYTIFHLVLQPILAVLSLCLWLLVFTIPMSNVLWQIMYHCRRHPLALGFKYVENSSQSHENEITQQQLNKNILLCTFRAAGWHYYKYTVDGTNVIVVNLISIVFFTIFDFYVLKNFLHWKTWFTYESSIFILCLTSTIPLAFYIGQAVASISAQTSMGVGAVINAFFSTIVEIFLYCVALQQKKGLLVEGSMIGSILGAVLLLPGLSMCGGALNRKTQRYNPASAGVSSALLIFSMIVMFVPTVLYEIYGGYSVNCADGANDRDCTFSHPPLKFNRLFTHVIQPMSISCAIVLFCAYIIGLWFTLRTHAKMIWQLPIADPTSTAPEQQEQNSHDAPNWSRSKSTCILLMSTLLYAIIAEILVSCVDAVLEDIPSLNPKFLGLTIFALIPNTTEFLNAISFAIHGNVALSMEIGSAYALQVCLLQIPSLVIYSIFYTWNVKKSMINIRTQMFPLVFPRWDIFGAMTSVFMFTYLYAEGKSNYFKGSMLILLYIIIVVGFYFQGALSE |
| 5912 | sp|P01282|VIP\_HUMAN | MDTRNKAQLLVLLTLLSVLFSQTSAWPLYRAPSALRLGDRIPFEGANEPDQVSLKEDIDMLQNALAENDTPYYDVSRNARHADGVFTSDFSKLLGQLSAKKYLESLMGKRVSSNISEDPVPVKRHSDAVFTDNYTRLRKQMAVKKYLNSILNGKRSSEGESPDFPEELEK |
| 5913 | sp|Q7LZ61|VM3CX\_DABSI | MMQVLLVTISLAVFPYQGSSIILESGNVNDYEVVYPQKVTALPKGAVQQPEQKYEDTMQYEFEVNGEPVVLHLEKNKILFSEDYSETHYYPDGREITTNPPVEDHCYYHGRIQNDAHSSASISACNGLKGHFKLRGEMYFIEPLKLSNSEAHAVYKYENIEKEDEIPKMCGVTQTNWESDKPIKKASQLVSTSAQFNKIFIELVIIVDHSMAKKCNSTATNTKIYEIVNSANEIFNPLNIHVTLIGVEFWCDRDLINVTSSADETLNSFGEWRASDLMTRKSHDNALLFTDMRFDLNTLGITFLAGMCQAYRSVEIVQEQGNRNFKTAVIMAHELSHNLGMYHDGKNCICNDSSCVMSPVLSDQPSKLFSNCSIHDYQRYLTRYKPKCIFNPPLRKDIVSPPVCGNEIWEEGEECDCGSPANCQNPCCDAATCKLKPGAECGNGLCCYQCKIKTAGTVCRRARDECDVPEHCTGQSAECPRDQLQQNGKPCQNNRGYCYNGDCPIMRNQCISLFGSRANVAKDSCFQENLKGSYYGYCRKENGRKIPCAPQDVKCGRLFCLNNSPRNKNPCNMHYSCMDQHKGMVDPGTKCEDGKVCNNKRQCVDVNTAYQSTTGFSQI |
| 5914 | sp|Q3ZK22|VEZA\_MOUSE | MTPEFDEEVVFENSPLYQYLQDLGHTDFEICSSSSPKPEKCLTTEGPQPPPTRVLQRQGILLKLTETIKSWTFSSQHSKKDDLLHKLDTGFRLDSLHTILQQEVLLQEDVELLELLDASILSAGQPQQESGHLPTLCSLATPNTWDVSLLFAFISLLIMFPTCWIVSSWLVWGIILFLYLIIRVLKLWRTAKLQMTLKKYRVRLEDMAANSRAFTNLVRKSLRLIQETEVISRGFTLVSAACSFNKAAQHPGQHLIGLRKAVYRTVRANFQAARLATLYMLKNYPLNSESDNVTNYICVVPFKELGLGLSEDQISEEEARNLTDGFSLPALKVLFQLWVAQSSEFFRRLALLLSTANSPSGPLLTAALLPHHILCDVTQGLPHAHSACLDELKRSYEFFRYFETQHQSVPQRLSKTPQKSRELSNVHTAVRSLQLHLKALLNEVIILEDELEKLVCTKETQELLSEAYPILEQKLKLIEPHVQASNSCWEEAISQVDKLLRRNTDKKGKPGVACENPHCTAEPLVRPALHIEDRDPIPEEQELEAYVDDIDIESEFRKDDFYHLSQEDRERQKREQEESRRVLQELKSVLGFKASEAERQKWKQLLFSDHAVLTSLSPVDPVESVSNSEPPMNSDTEKVNSNATEEETSKPCAGDKEDSRTEYVCDSPTEGPSKDTSADTGLLLPGAEETMCHQHESEAKSPQAAAAGATAPPTPRDTLQLSIKQRLARLQLPPEFTFSAGLAAEVAARSLSFTTMQEQTFGDEEEEQLVEGGENEVEEK |
| 5915 | sp|Q15904|VAS1\_HUMAN | MMAAMATARVRMGPRCAQALWRMPWLPVFLSLAAAAAAAAAEQQVPLVLWSSDRDLWAPAADTHEGHITSDLQLSTYLDPALELGPRNVLLFLQDKLSIEDFTAYGGVFGNKQDSAFSNLENALDLAPSSLVLPAVDWYAVSTLTTYLQEKLGASPLHVDLATLRELKLNASLPALLLIRLPYTASSGLMAPREVLTGNDEVIGQVLSTLKSEDVPYTAALTAVRPSRVARDVAVVAGGLGRQLLQKQPVSPVIHPPVSYNDTAPRILFWAQNFSVAYKDQWEDLTPLTFGVQELNLTGSFWNDSFARLSLTYERLFGTTVTFKFILANRLYPVSARHWFTMERLEVHSNGSVAYFNASQVTGPSIYSFHCEYVSSLSKKGSLLVARTQPSPWQMMLQDFQIQAFNVMGEQFSYASDCASFFSPGIWMGLLTSLFMLFIFTYGLHMILSLKTMDRFDDHKGPTISLTQIV |
| 5916 | sp|Q8CF97|VCIP1\_RAT | MSQPPPPPPLPPPPPPPEAPQTSSSLAAAATPGGLSKRRDRRILSGSCPDPKCQARLFFPASGSVSIECTECGQRHEQQQLLGVEEVTDPDVVLHNLLRNALLGVTGAPKKNTELVKVMGLSNYHCKLLSPILARYGMDKQTGRAKLLRDMNQGELFDCALLGDRAFLIEPEHVNTVGYGKDRSGSLLYLHDTLEDIKRANKSQECLIPVHVDGDGHCLVHAVSRALVGRELFWHALRENLKQHFQQHLARYQALFHDFIDAAEWEDIINECDPLFVPPEGVPLGLRNIHIFGLANVLHRPIILLDSLSGMRSSGDYSATFLPGLIPAEKCTGRDGHLNKPICIAWSSSGRNHYIPLVGIKGAALPKLPMNLLPKAWGVPQDLIKKYIKLEEDGGCVIGGDRSLQDKYLLRLVAAMEEVFMDKHGIHPSLVADVHQYFYRRTGVIGVQPEEVTAAAKKAVMDNRLHKCLLCGALSELHVPPEWLAPGGKLYNLAKSTHGQLRPDKNYSFPLNNLVCSYDPVKDVLLPDYGLSNLTACNWCHGTSVRRVRGDGSIVYLDGDRTNSRSTGGKCGCGFKHFWEGKEYDNLPEAFPITLEWGGRVVRETVYWFQYESDPSLNSNVYDVAMKLVTKHFPGEFGSEILVQKVVHTILHQTAKKNPDDYTPVNIDGAHAQRIGDVQGQELESQLPTKIILTGQKTKTLHKEELNMSKTERTIQQNITEQASVMQKRKTEKLKQEQKGQPRTVSPSTIRDGPSSAPATPTKAPYSPTTSKEKKIRITTNDGRQSMVTLKSSTTFFELQESIAREFNIPPYLQCIRYGFPPKELMPPQAGMEKEPVPLQHGDRITIEILKGKAEGGPSTAAHSAHTVRQEEIAVTGKLSSKELQEQADKEMYSLCLLATLMGEDVWSYAKGLPHMFQQGGVFYNIMKKTMGMADGKHCTFPHLPGKTFVYNASEDRLELCVDAAGHFPIGPDVEDLVKEAVSQVRAEATTRSRESSPSHGLLKLGSGGVVKKKSEQLHNVTAFQGKGHSLGTASSNPHMDPRARETLAVRKHNTGTDFSNSSIKTEPPVFTAASSNSELIRIAPGVVTMRDGRQIDPDVVEAQRKKLQEMVSSIQASMDKHLRDQSTEQTPSDLSQRKVEAVSSSVRPGNLQTGLPESFSLTGGTENLNTETTDSRVADVLGAAFATRSKAQKENSMEEPEEMDSQDAETTNTTEPMDHS |
| 5917 | sp|Q60932|VDAC1\_MOUSE | MCSFFLVLLLWQNMAVPPTYADLGKSARDVFTKGYGFGLIKLDLKTKSENGLEFTSSGSANTETTKVNGSLETKYRWTEYGLTFTEKWNTDNTLGTEITVEDQLARGLKLTFDSSFSPNTGKKNAKIKTGYKREHINLGCDVDFDIAGPSIRGALVLGYEGWLAGYQMNFETSKSRVTQSNFAVGYKTDEFQLHTNVNDGTEFGGSIYQKVNKKLETAVNLAWTAGNSNTRFGIAAKYQVDPDACFSAKVNNSSLIGLGYTQTLKPGIKLTLSALLDGKNVNAGGHKLGLGLEFQA |
| 5918 | sp|Q5ND34|WDR81\_MOUSE | MAQGSRRRKVVLTAGSEGWSPSSGPDMEELLRSVERDLNIDARQLALAPGGTHVVALVSTRWLASLRERRLGPCPRAEGLGEAEVRTLLQRSVQRLPPGWTRVEVHGLRKRRLSYPLGGGVPFEEGSCSPETLTRFMQEVAAQNYRNLWRHAYHTYGQPYSHSTAPSALPALDSIRQALQRVYGCTFLPVGESIPCLSNVRDGPCPSRGSPACPSLLRAEALLESPEMLYVVHPYVQFSLHDVVTFSPAKLTNSQAKVLFLLFRVLRAMDACHRQGLACGALSLHHIAVDEKLCSELRLDLSAYEMPSEDENQEGSEEKNGTGIKSEKEGEGRTECPTCQKELRGLVLDWVHGRISNFHYLMQLNRLAGRRQGDPNYHPVLPWVVDFTTPYGRFRDLRKSKFRLNKGDKQLDFTYEMTRQAFVAGGAGSGEPPHVPHHISDVLSDITYYVYKARRTPRSVLCGHVRAQWEPHEYPATMERMQTWTPDECIPEFYTDPSIFCSIHPDMPDLDVPAWCSSNQEFVAAHRALLESWEVSQDLHHWIDLTFGYKLQGKEAVKEKNVCLHLVDAHTHLTSYGVVQLFDQPHPQRLAGSPALAPEPPLIPRLLVQPIREATGQEDISGQLINGAGRLVVEATPCETGWTRDRPGTGEDDLEQATEALDSISLPGKAGDQPGSSSSQASPGLLSFSAPSGSRPGRRSKAAGLDPGEGEEGKIVLPEGFSPIQALEELEKVGNFLAKGLGSQLEEPEKPHAQPPVHLQSLFHRDMQVLGVLLAEMVFATRVRILQPDAPLWVRFEAVRGLCIRHSKDIPVSLQPVLDTLLQLSGPKSPMVSKKGKLDPLFEYRPVSQGLPPPSPAQLLSPFSSVVPFPPYFPALHKFILLYQARRVEDEVQGRELAFALWQQLGAVLNDITPEGLEILLPFVLSLMSEEHTAVYTAWYLFEPVAKALGPKNANKYLLKPLIGAYESPCRLHGRFYLYTDCFVAQLVVRLGLQAFLTHLLPHVLQVLAGVEASQEEGKGLVGTTEDEESELPVSGPGSCAFGEEIQMDGQPAASSGLGLPDYRSGVSFHDQADLPDTEDFQAGLYVAESPQPQEAEAVSLGQLSDKSSTSEASQGEERGGDDGGAPADKNSVKSGDSSQDLKQSEGSEEEEEEEGCVVLEEDQEDEVTGTSELTLSDTMLSMETVVAPGDGRDREEEEEPLTEQTEGKEQKILLDTACKMVRWLSAKLGPTVASRHVARNLLRLLTSCYVGPTRQQFTVSSDDTPPLNAGNIYQKRPVLGDIVSGPVLSCLLHIAYLYGEPVLTYQYLPYISYLVAPGSNSNPSRLNSRKEAGLLAAVTLTQKIIVYLSDTTLMDILPRISHEVLLPVLGFLTSFVTGFPSGAQARTVLCVKTISLIALICLRIGQEMVQQHLSEPVATFFQVFSHLHELRQQDLPLDPKGCTEGQLPEATFSDGQRRPVDPTLLEELQKVFTLEMAYTIYVPFSCLLGDIIRKIIPNHELVGELAGLYLESMSPSSRNPASMEPTMASAGPEWDPQSGSCLQDDGHSGTFGSVLVGNRIQIPDSQPQSPGPLGSLSGVGSSGGLSNRNEDNALKRELPRSAHGLSGNWLAYWQYEIGVSQQDAHFHFHQIRLQSFPGHTGAVKCVAALSSEDFFLSGSKDRTVRLWPLYNYGDGTNETASRLIYAQHRKSVFYVGQLEAPQYVVSCDGAVHVWDPFTGKTLRTVDPSDSRVPLTAVAVMPAPHTSITMASSDSTLRFVDCRKPGLQHEFRLGGGLNPGLVRSLAVSPSGRSVVAGFSSGFMVLLDTRTGLVLRGWPAHEGDILQIKAVEGSVLISSSSDHSLTVWKELEQKPTHHYKSASDPIHTFDLYGSEVVTGTVANKIGVCSLLEPPSQATTKLSSENFRGTLTSLALLPTKRHLLLGSDNGIIRLLA |
| 5919 | sp|Q96QU8|XPO6\_HUMAN | MASEEASLRALESLMTEFFHDCTTNERKREIEELLNNFAQQIGAWRFCLYFLSSTRNDYVMMYSLTVFENLINKMWLGVPSQDKMEIRSCLPKLLLAHHKTLPYFIRNKLCKVIVDIGRQDWPMFYHDFFTNILQLIQSPVTTPLGLIMLKTTSEELACPREDLSVARKEELRKLLLDQVQTVLGLLTGILETVWDKHSVTAATPPPSPTSGESGDLLSNLLQSPSSAKLLNQPIPILDVESEYICSLALECLAHLFSWIPLSASITPSLLTTIFHFARFGCDIRARKMASVNGSSQNCVSGQERGRLGVLAMSCINELMSKNCVPMEFEEYLLRMFQQTFYLLQKITKDNNAHTVKSRLEELDESYIEKFTDFLRLFVSVHLRRIESYSQFPVVEFLTLLFKYTFHQPTHEGYFSCLDIWTLFLDYLTSKIKSRLGDKEAVLNRYEDALVLLLTEVLNRIQFRYNQAQLEELDDETLDDDQQTEWQRYLRQSLEVVAKVMELLPTHAFSTLFPVLQDNLEVYLGLQQFIVTSGSGHRLNITAENDCRRLHCSLRDLSSLLQAVGRLAEYFIGDVFAARFNDALTVVERLVKVTLYGSQIKLYNIETAVPSVLKPDLIDVHAQSLAALQAYSHWLAQYCSEVHRQNTQQFVTLISTTMDAITPLISTKVQDKLLLSACHLLVSLATTVRPVFLISIPAVQKVFNRITDASALRLVDKAQVLVCRALSNILLLPWPNLPENEQQWPVRSINHASLISALSRDYRNLKPSAVAPQRKMPLDDTKLIIHQTLSVLEDIVENISGESTKSRQICYQSLQESVQVSLALFPAFIHQSDVTDEMLSFFLTLFRGLRVQMGVPFTEQIIQTFLNMFTREQLAESILHEGSTGCRVVEKFLKILQVVVQEPGQVFKPFLPSIIALCMEQVYPIIAERPSPDVKAELFELLFRTLHHNWRYFFKSTVLASVQRGIAEEQMENEPQFSAIMQAFGQSFLQPDIHLFKQNLFYLETLNTKQKLYHKKIFRTAMLFQFVNVLLQVLVHKSHDLLQEEIGIAIYNMASVDFDGFFAAFLPEFLTSCDGVDANQKSVLGRNFKMDRDLPSFTQNVHRLVNDLRYYRLCNDSLPPGTVKL |
| 5920 | sp|Q1MX30|XA21\_ORYSI | MISLPLLLFVLLFSALLLCPSSSDDDGDAAGDELALLSFKSSLLYQGGQSLASWNTSGHGQHCTWVGVVCGRRRRRHPHRVVKLLLRSSNLSGIISPSLGNLSFLRELDLGDNYLSGEIPPELSRLSRLQLLELSDNSIQGSIPAAIGACTKLTSLDLSHNQLRGMIPREIGASLKHLSNLYLYKNGLSGEIPSALGNLTSLQEFDLSFNRLSGAIPSSLGQLSSLLTMNLGQNNLSGMIPNSIWNLSSLRAFSVRENKLGGMIPTNAFKTLHLLEVIDMGTNRFHGKIPASVANASHLTVIQIYGNLFSGIITSGFGRLRNLTELYLWRNLFQTREQDDWGFISDLTNCSKLQTLNLGENNLGGVLPNSFSNLSTSLSFLALELNKITGSIPKDIGNLIGLQHLYLCNNNFRGSLPSSLGRLKNLGILLAYENNLSGSIPLAIGNLTELNILLLGTNKFSGWIPYTLSNLTNLLSLGLSTNNLSGPIPSELFNIQTLSIMINVSKNNLEGSIPQEIGHLKNLVEFHAESNRLSGKIPNTLGDCQLLRYLYLQNNLLSGSIPSALGQLKGLETLDLSSNNLSGQIPTSLADITMLHSLNLSFNSFVGEVPTIGAFAAASGISIQGNAKLCGGIPDLHLPRCCPLLENRKHFPVLPISVSLAAALAILSSLYLLITWHKRTKKGAPSRTSMKGHPLVSYSQLVKATDGFAPTNLLGSGSFGSVYKGKLNIQDHVAVKVLKLENPKALKSFTAECEALRNMRHRNLVKIVTICSSIDNRGNDFKAIVYDFMPNGSLEDWIHPETNDQADQRHLNLHRRVTILLDVACALDYLHRHGPEPVVHCDIKSSNVLLDSDMVAHVGDFGLARILVDGTSLIQQSTSSMGFIGTIGYAAPEYGVGLIASTHGDIYSYGILVLEIVTGKRPTDSTFRPDLGLRQYVELGLHGRVTDVVDTKLILDSENWLNSTNNSPCRRITECIVWLLRLGLSCSQELPSSRTPTGDIIDELNAIKQNLSGLFPVCEGGSLEF |
| 5921 | sp|Q9WTR6|XCT\_MOUSE | MVRKPVVATISKGGYLQGNMSGRLPSMGDQEPPGQEKVVLKKKITLLRGVSIIIGTVIGSGIFISPKGILQNTGSVGMSLVFWSACGVLSLFGALSYAELGTSIKKSGGHYTYILEVFGPLLAFVRVWVELLVIRPGATAVISLAFGRYILEPFFIQCEIPELAIKLVTAVGITVVMVLNSTSVSWSARIQIFLTFCKLTAILIIIVPGVIQLIKGQTHHFKDAFSGRDTSLMGLPLAFYYGMYAYAGWFYLNFITEEVDNPEKTIPLAICISMAIITVGYVLTNVAYFTTISAEELLQSSAVAVTFSERLLGKFSLAVPIFVALSCFGSMNGGVFAVSRLFYVASREGHLPEILSMIHVHKHTPLPAVIVLHPLTMVMLFSGDLYSLLNFLSFARWLFMGLAVAGLIYLRYKRPDMHRPFKVPLFIPALFSFTCLFMVVLSLYSDPFSTGVGFLITLTGVPAYYLFIVWDKKPKWFRRLSDRITRTLQIILEVVPEDSKEL |
| 5922 | sp|G2QG48|XYLO\_MYCTT | MHLLPLTVSATAVVSAASSPHAKRAAIDECLKNAKVPVTARNSTEWKTDASPFNDRLPYTPAAIAKPATVEHIQAAVLCAAEVGVKANPKSGGHSYASFGLGGEDGHLVVELDRMYNVTLDPETHIATVQPGARLGHIATVLYEEGKRAFSHGTCPGVGVGGHSLHGGFGFSSHSHGLAVDWITSADVVLANGSLVTASETENPDLFWALRGAGSNFGIVASFRFKTFAAPPNVTSYEINLPWTNSSNVVKGWGALQEWLLNGGMPEEMNMRVLGNAFQTQLQGLYHGNASALKTAIQPLLALLDANLSSVQEHDWMEGFRHYAYSGEIDITDPGYDQSETFYSKSLVTSALPPDVLERVAEYWIETANKVRRSWYIIIDMYGGPNSAVTRVPPGAGSYAFRDPERHLFLYELYDRSFGPYPDDGFAFLDGWVHAFTGGLDSSDWGMYINYADPGLDRAEAQEVYYRQNLDRLRRIKQQLDPTELFYYPQAVEPAEV |
| 5923 | sp|P07527|WEE1\_SCHPO | MSSSSNTSSHRSYGLRRSQRSMNLNRATLLAPPTPSSLYDANNSTSSTSSQKPNTSFTSLFGPRKQTTSSPSFSHAAPLHPLSPPSFTHSQPQIQAQPVPRRPSLFDRPNLVSRSSSRLGDSPSLSPVAQVANPIHHTAPSPSDVRAFPIHKNASTGVKRSFFSSSMSNGAMSPPSHSPSPFLQSSQHIPPSTPAQKLRKKNNFDSFRISNSHISPFASGSFSPFATSSPNFLSTSTPAPPNSNNANPSTLFSSIPSSRHTTSNHFPSNSAQSSLFSPTARPLTARKLGFASSQTKSAVSNNHSRNSSKDASFMMKSFIPSNRSHPQTQQNESSLFSDNSMVNSSSNSFSLFPNATLPNPPSSELLTTPFQQIKPPSQVFMSTGLLSKQHRPRKNINFTPLPPSTPSKPSTFVRPHSSSTDSPPSPSTPSNTQTDSYFIQRENTPTNHNSIPTIQLEKSSMDFLRFDPPPSAVKTSHNYGLPFLSNQRCPATPTRNPFAFENTVSIHMDGRQPSPIKSRNNNQMSFAMEEEADVSQPSSSSFTLSFPSALTSSKVSSSTSHLLTRFRNVTLLGSGEFSEVFQVEDPVEKTLKYAVKKLKVKFSGPKERNRLLQEVSIQRALKGHDHIVELMDSWEHGGFLYMQVELCENGSLDRFLEEQGQLSRLDEFRVWKILVEVALGLQFIHHKNYVHLDLKPANVMITFEGTLKIGDFGMASVWPVPRGMEREGDCEYIAPEVLANHLYDKPADIFSLGITVFEAAANIVLPDNGQSWQKLRSGDLSDAPRLSSTDNGSSLTSSSRETPANSIIGQGGLDRVVEWMLSPEPRNRPTIDQILATDEVCWVEMRRKAGAIIYEGIHGSSSNPQGDQMMEDWQVNV |
| 5924 | sp|Q64LD2|WDR25\_HUMAN | MTARTLSLMASLVAYDDSDSEAETEHAGSFNATGQQKDTSGVARPPGQDFASGTLDVPKAGAQPTKHGSCEDPGGYRLPLAQLGRSDWGSCPSQRLQWPGKEPQVTFPIKEPSCSSLWTSHVPASHMPLAAARFKQVKLSRNFPKSSFHAQSESETVGKNGSSFQKKKCEDCVVPYTPRRLRQRQALSTETGKGKDVEPQGPPAGRAPAPLYVGPGVSEFIQPYLNSHYKETTVPRKVLFHLRGHRGPVNTIQWCPVLSKSHMLLSTSMDKTFKVWNAVDSGHCLQTYSLHTEAVRAARWAPCGRRILSGGFDFALHLTDLETGTQLFSGRSDFRITTLKFHPKDHNIFLCGGFSSEMKAWDIRTGKVMRSYKATIQQTLDILFLREGSEFLSSTDASTRDSADRTIIAWDFRTSAKISNQIFHERFTCPSLALHPREPVFLAQTNGNYLALFSTVWPYRMSRRRRYEGHKVEGYSVGCECSPGGDLLVTGSADGRVLMYSFRTASRACTLQGHTQACVGTTYHPVLPSVLATCSWGGDMKIWH |
| 5925 | sp|Q93WU8|WRK54\_ARATH | MDSNSNNTKSIKRKVVDQLVEGYEFATQLQLLLSHQHSNQYHIDETRLVSGSGSVSGGPDPVDELMSKILGSFHKTISVLDSFDPVAVSVPIAVEGSWNASCGDDSATPVSCNGGDSGESKKKRLGVGKGKRGCYTRKTRSHTRIVEAKSSEDRYAWRKYGQKEILNTTFPRSYFRCTHKPTQGCKATKQVQKQDQDSEMFQITYIGYHTCTANDQTHAKTEPFDQEIIMDSEKTLAASTAQNHVNAMVQEQENNTSSVTAIDAGMVKEEQNNNGDQSKDYYEGSSTGEDLSLVWQETMMFDDHQNHYYCGETSTTSHQFGFIDNDDQFSSFFDSYCADYERTSAM |
| 5926 | sp|Q02792|XRN2\_YEAST | MGVPSFFRWLSRKYPKIISPVLEEQPQIVDGVILPLDYSASNPNGELDNLYLDMNGIVHPCSHPENKPPPETEDEMLLAVFEYTNRVLNMARPRKVLVMAVDGVAPRAKMNQQRARRFRSARDAQIENEAREEIMRQREEVGEIIDDAVRNKKTWDSNAITPGTPFMDKLAAALRYWTAFKLATDPGWKNLQVIISDATVPGEGEHKIMNFIRSQRADPEYNPNTTHCIYGLDADLIFLGLATHEPHFKILREDVFAQDNRKRNNLKDTINMTEEEKQFLQKQNSEQPFLWLHINVLREYLSAELWVPGLPFTFDLERAIDDWVFMCFFCGNDFLPHLPCLDVRENSIDILLDIWKVVLPKLKTYMTCDGVLNLPSVETLLQHLGSREGDIFKTRHIQEARKKEAFERRKAQKNMSKGQDRHPTVATEQLQMYDTQGNLAKGSWNLTTSDMVRLKKELMLANEGNEEAIAKVKQQSDKNNELMKDISKEEIDDAVSKANKTNFNLAEVMKQKIINKKHRLEKDNEEEEIAKDSKKVKTEKAESECDLDAEIKDEIVADVNDRENSETTEVSRDSPVHSTVNVSEGPKNGVFDTDEFVKLFEPGYHERYYTAKFHVTPQDIEQLRKDMVKCYIEGVAWVLMYYYQGCASWNWFYPYHYAPLATDFHGFSHLEIKFEEGTPFLPYEQLMSVLPAASGHALPKIFRSLMSEPDSEIIDFYPEEFPIDMNGKKMSWQGIALLPFIDQDRLLTAVRAQYPLLSDAERARNIRGEPVLLISNKNANYERFSKKLYSKENNNNNVVVKFQHFKSGLSGIVSKDVEGFELNGKIVCPIQGGSLPNLSTTLILKMSYRLIPLPSRNKSIILNGFIPSEPVLTAYDLDSIMYKYNNQNYSRRWNFGNDLKQNIVPVGPKGITQYKPRTGGYRAFFYFAELSRNNVQPAHNYGRNSYNSQPGFNNSRYDGGNNNYRQNSNYRNNNYSGNRNSGQYSGNSYSRNNKQSRYDNSRANRR |
| 5927 | sp|Q9VU68|WDR1\_DROME | MAQPQPPAYENKNIYATLPRTQRGQPIVLGADPKGKNFLYTNGNSVIIRNIENPAIADVYTEHSCAVNVAKYSPSGFYIASGDASGKIRIWDTVNKEHLLKNEFQPIAGPIKDISWSPDNQRIVAVGEGRERFGHVFMSETGTSVGEISGQSKSINSADFRPARPFRIVTGSEDNTIAVFEGPPFKFKMTKQDHSRFVQAVRYSPDGKFFASAGFDGKVFLYDGTSSELVGEFGSPAHKGGVYALAWKPDSTQLLTCSGDKTCRLWTVESRELVSEFVMGTTVDDQQVSCLWQGDNLITVSLSGVITYLNVADPSKPLRVVKGHNKPITVLGLSDDRSTIYTGSHDGVVTNWNSGSGTNDRITGTGHGNQINGIAAWGDFVYTCGIDDSLRQFSVEGNSYTDYVVKLNCQPRGLAILRNENIIALACIKELTLVQDQKKIFSLPIKYEASSIAVNADTSDVAVGGDDQKLHIYTLKGGVLEPKVELDHLGAVTDVSYSPDLKYLVACDAHRKVVLYSVEEYKPAHNKEWGFHSARVNTVAWSPNSLLVASGSLDTTIIIWSVANPAKHTIIKNAHPQSQITRLVWLDNNTVISTGQDCNTKVWHVENI |
| 5928 | sp|Q19546|WRN\_CAEEL | MISDDDDLPSTRPGSVNEELPETEPEDNDELPETEPESDSDKPTVTSNKTENQVADEDYDSFDDFVPSQTHTASKIPVKNKRAKKCTVESDSSSSDDSDQGDDCEFIPACDETQEVPKIKRGYTLRTRASVKNKCDDSWDDGIDEEDVSKRSEDTLNDSFVDPEFMDSVLDNQLTIKGKKQFLDDGEFFTDRNVPQIDEATKMKWASMTSPPQEALNALNEFFGHKGFREKQWDVVRNVLGGKDQFVLMSTGYGKSVCYQLPSLLLNSMTVVVSPLISLMNDQVTTLVSKGIDAVKLDGHSTQIEWDQVANNMHRIRFIYMSPEMVTSQKGLELLTSCRKHISLLAIDEAHCVSQWGHDFRNSYRHLAEIRNRSDLCNIPMIALTATATVRVRDDVIANLRLRKPLITTTSFDRKNLYISVHSSKDMAEDLGLFMKTDEVKGRHFGGPTIIYCQTKQMVDDVNCVLRRIGVRSAHYHAGLTKNQREKAHTDFMRDKITTIVATVAFGMGIDKPDVRNVIHYGCPNNIESYYQEIGRAGRDGSPSICRVFWAPKDLNTIKFKLRNSQQKEEVVENLTMMLRQLELVLTTVGCRRYQLLKHFDPSYAKPPTMQADCCDRCTEMLNGNQDSSSSIVDVTTESKWLFQVINEMYNGKTGIGKPIEFLRGSSKEDWRIKTTSQQKLFGIGKHIPDKWWKALAASLRIAGYLGEVRLMQMKFGSCITLSELGERWLLTGKEMKIDATPILLQGKKEKAAPSTVPGASRSQSTKSSTEIPTKILGANKIREYEPANENEQLMNLKKQEVTGLPEKIDQLRSRLDDIRVGIANMHEVAPFQIVSNTVLDCFANLRPTSASNLEMIDGMSAQQKSRYGKRFVDCVVQFSKETGIATNVNANDMIPPELISKMQKVLSDAVRRVYTEHLISRSTAKEVATARGISEGTVYSYLAMAVEKGLPLHLDKLNVSRKNIAMALNAVRVHLGSNVAVLTPWVEAMGVVPDFNQLKLIRAILIYEYGLDTSENQEKPDIQSMPSTSNPSTIKTVPSTPSSSLRAPPLKKFKL |
| 5929 | sp|P97789|XRN1\_MOUSE | MGVPKFYRWISERYPCLSEVVKEHQIPEFDNLYLDMNGIIHQCSHPNDDDVHFRISDDKIFTDIFHYLEVLFRIIKPRKVFFMAVDGVAPRAKMNQQRGRRFRSAKEAEDKIKKAIEKGETLPTEARFDSNCITPGTEFMARLHEHLKYFVNMKISTDKSWQGVTIYFSGHETPGEGEHKIMEFIRSEKAKPDHDPNTRHCLYGLDADLIMLGLTSHEAHFSLLREEVRFGGKKTQRVCAPEETTFHLLHLSLMREYIDYEFSALKEKITFKYDIEKIIDDWILMGFLVGNDFIPHLPHLHINHDALPLLYGTYIAILPELGGYINESGHLNLPRFERYLVKLSDFDREHFSEVFVDLKWFESKVGNKYLNEAAGAAAEEAKNCKEKRKPKGQENSLSWAALDKSEGEGVASRDNFEDETEDDDLFETEFRQYKRTYYMTKMGVDVVSDEFLANQAACYVQAIQWILHYYYHGVQSWSWYYPYHYAPFLSDIRSISTLKIHFELGKPFKPFEQLLAVLPSASKNLLPTCYQHLMTSEDSPIIEYYPPDFKTDLNGKQQEWEAVVLIPFIDETRLLEAMETCNHSLKKEERKRNQHSECLMCWYDRDTEFTYSSPWPEKFPAIERCCTRYKMISLDAWRVDINKNKITRVDQKALYFCGFPTLKHIKHKFFLKKSGVQVFQQSSRGENLMLEISVNAEPDELRIENIASAVLGKAVFVNWPHLEEARVVAVSDGETKFYIEEPPGTQKVYLGKTAPPSKVIQLTDKEQSNWTKEIQGISEQYLRRKGIIINETSAVVYAQLLTGRKYQISQNGEVRLEKQWSKQILPFVYQTIVKDIRAFDSRFSNIKTLDDLFPPRTMVFMLGTPYYGCTGEVQDSGDLITEGRIRVVFSIPCEPNLDALIQNQHKYSIKYNPGYVLAGRLGVSGYLVSRFTGSIFIGRGSRRNPHGDHKANVGLNLKFNKKNEEVPGYTKKVGNEWMYSSAAEQLLAEYIERAPELFSYIAKNSQEDVFYEDDIWPGENENGAEKVQEIITWLKGHPVSTLSRSSCDLHILDAAIVEKIEEEVEKCKQRKSNKKVRVTVKPHLMYRPLEQQHGVIPDRDAEFRLFDRVVNVRESFSVPVGLRGTVIGIKGASREADVLFEVLFDEEFPGGLTIRCSPGRGYRLPTSALVNLSHGSRCETGNQKLTAIVKPQPSVSHCSAAPSGHLGGLNHSPQSPFLPTQVPTKGDDEFCNIWQSLQGAGKTQHLQPTVQEKGAVLPQEISQVTEGHKSGFTDHSVRHQQRKHDSQRKFKEEYKSPKAECQSQKLSSKQTSGGSARCSIKLLKRNESPGTSEAQKVVTSYPNAVHKPPSGIENFLASLNLSKENEAQLPHHGEPPDEADLSPQSFAMKGTRMLKEILKIDSPDTRDSKNDMKKSDNEATVSSRRDERGVSAHPKPTCHMNKPHGTNEFQNVASVDSVCWPGQMPPVSTPVTELSRICSLVGMPQPDFSFLRTTQTMTVCQVKLSNGLLVHGPQCHSESEAKERAALFALQQLGSLGVSFPLPPPIFTNYPPAVPPGAVPPVFTQPTANIMPSSSHLFGSVSWRPPVPVAGNAFHYPSYPGTMPLAGGVPGGVHSQFIPLQVTKKRVANRKNFENKEAQSSQATPLQTNKPGSSEATKMTPQESPPASSSSSQAAQPVSSHVETASQGHVGSQPRSAPSSSKRKSRKLAVNFSVSKPSE |
| 5930 | sp|A8X811|WRM1\_CAEBR | MEERGPDIEKYGSQPCTPLSFDPMLPSTSRVATPVRPSSTLSARQAPASPFRAQPQNMEPSISRVHELREGAAVKRSYTNDWMQGNYIPPNPQQQQYQRPPSMIGSTISNMSNLSHMTKFSALSVNTQCGQFDNWIYQSQPALSKVSHSSVENQDPMKRRERMSIPEIVQSLASYEMSDQVAAIRELEPLAKAEALESTYCQADLGKIINALFEVLVPRPQENENVIRKVFEILHRAAVPKHVRMTEKIFHSLNLELMNTNSSKHSFQVPRPYSIYELVIERASRLDTAYDQAAMLLLAQICCKPFFMKYVFSEKEQSAGHRRLHEVVMQFAIKNLQQQETKRKSKGFCVSIIKNLSRRNRSIWSIVYELHVIPIFHDIIKDEYSDEDLLWPTMQALTTFCSIERVGEDFVKLGGAQDLCNLLYHGSTRLLHELLACMQRLSLLQEIGNQDMEESIRRVIQVVGSDDATIAERATGVLRNIGQPNKQNKVIMVRNGVTAHAIAVLRTSMRFQSQLREQQNARTPKNQIDAAKNQILSIYENCLSILNNVTKMGKDDILDSAIQACRMISANPDAAIVLLHFLNAGAPKCRKLAVNVMKRVIENVPAFAEPFVDLPGTTQETLPILLLKRAYESLDEWKKAVVEVMRSEPNTQQFRDAIEKRQDHEDIVWKSVSLLSNLCRNGNPRFFERVKVEMLYTRPTNPFTSLFPEMSDVILYEWLDFILAICGTEWSLQNCLMYHFLKQANITHEYLLHYRRPNPQICDKIKNIIDTGMRQQQQHNQLEQMAMMHAQQQHQQLPM |
| 5931 | sp|P9WMU9|Y1264\_MYCTU | MTDHVREADDANIDDLLGDLGGTARAERAKLVEWLLEQGITPDEIRATNPPLLLATRHLVGDDGTYVSAREISENYGVDLELLQRVQRAVGLARVDDPDAVVHMRADGEAAARAQRFVELGLNPDQVVLVVRVLAEGLSHAAEAMRYTALEAIMRPGATELDIAKGSQALVSQIVPLLGPMIQDMLFMQLRHMMETEAVNAGERAAGKPLPGARQVTVAFADLVGFTQLGEVVSAEELGHLAGRLAGLARDLTAPPVWFIKTIGDAVMLVCPDPAPLLDTVLKLVEVVDTDNNFPRLRAGVASGMAVSRAGDWFGSPVNVASRVTGVARPGAVLVADSVREALGDAPEADGFQWSFAGPRRLRGIRGDVRLFRVRRGATRTGSGGAAQDDDLAGSSP |
| 5932 | sp|P0C1S8|WEE2\_HUMAN | MDDKDIDKELRQKLNFSYCEETEIEGQKKVEESREASSQTPEKGEVQDSEAKGTPPWTPLSNVHELDTSSEKDKESPDQILRTPVSHPLKCPETPAQPDSRSKLLPSDSPSTPKTMLSRLVISPTGKLPSRGPKHLKLTPAPLKDEMTSLALVNINPFTPESYKKLFLQSGGKRKIRGDLEEAGPEEGKGGLPAKRCVLRETNMASRYEKEFLEVEKIGVGEFGTVYKCIKRLDGCVYAIKRSMKTFTELSNENSALHEVYAHAVLGHHPHVVRYYSSWAEDDHMIIQNEYCNGGSLQAAISENTKSGNHFEEPKLKDILLQISLGLNYIHNSSMVHLDIKPSNIFICHKMQSESSGVIEEVENEADWFLSANVMYKIGDLGHATSINKPKVEEGDSRFLANEILQEDYRHLPKADIFALGLTIAVAAGAESLPTNGAAWHHIRKGNFPDVPQELSESFSSLLKNMIQPDAEQRPSAAALARNTVLRPSLGKTEELQQQLNLEKFKTATLERELREAQQAQSPQGYTHHGDTGVSGTHTGSRSTKRLVGGKSARSSSFTSGEREPLH |
| 5933 | sp|P38838|WSS1\_YEAST | MKTEGIKSPSAKYHDMAGSQRIPHKNPHIQKVAVLQSKPNKEDALNLIKEIAHKVSYLMKENHFKVTNLVEFYPRDQRLLGMNVNHGSKIMLRLRCSTDEFQFLPMECIMGTMLHELTHNLFGPHDKKFYNKLDELIGRQWVIEQRGLYDTFLGNGQRLGGRANLRSNRYPMTGISTNTGIVRKRGKGVKLGSLHPEGISSIDRGNSPRELAAFAAERRYRDDRWCGETKNNKDQIISDNISSSLEVVILDDDDEVLPGDTLIEVIDLT |
| 5934 | sp|Q7TQJ8|WTIP\_MOUSE | MQRSRTAADDAALLLAGLGLRESEPTAGSPGRVRRGPRAVDEAAPASGRRGKGGCGGPEAAPDVPSRPERGPRASLAGSDGGSARSSGISLGYDQRHGPGPGPPSGGSARSSVSSLGSRGSAGACADLLPPGVGPAPARSPEPAQFPFPLPSLPLPPGREGGPSAAERRLEALTRELERALEARTARDYFGICIKCGLGIYGARQACQAMGSLYHTDCFICDSCGRRLRGKAFYNVGEKVYCQEDFLYSGFQQTADKCSVCGHLIMEMILQALGKSYHPGCFRCSVCNECLDGVPFTVDVDNNIYCVRDYHTVFAPKCASCARPILPAQGCETTIRVVSMDRDYHVECYHCEDCGLQLSGEEGRRCYPLEGHLLCRRCHLRRLGQGPLPSPAVHVTEL |
| 5935 | sp|Q9Y6F9|WNT6\_HUMAN | MLPPLPSRLGLLLLLLLCPAHVGGLWWAVGSPLVMDPTSICRKARRLAGRQAELCQAEPEVVAELARGARLGVRECQFQFRFRRWNCSSHSKAFGRILQQDIRETAFVFAITAAGASHAVTQACSMGELLQCGCQAPRGRAPPRPSGLPGTPGPPGPAGSPEGSAAWEWGGCGDDVDFGDEKSRLFMDARHKRGRGDIRALVQLHNNEAGRLAVRSHTRTECKCHGLSGSCALRTCWQKLPPFREVGARLLERFHGASRVMGTNDGKALLPAVRTLKPPGRADLLYAADSPDFCAPNRRTGSPGTRGRACNSSAPDLSGCDLLCCGRGHRQESVQLEENCLCRFHWCCVVQCHRCRVRKELSLCL |
| 5936 | sp|Q94AA9|XGD1\_ARATH | MAAPRSRRCSLSLLTLFSITLILISVSLFVSTKPANKPFLDYRNQFSISISISSPLEQNTTNTSFVSASPPLSPLGQSNTTNTILASSSSSSSFSDHQNQNKSPSPTSKKIVIRKRSGLDKIESDLAKARAAIKKAASTQNYVSSLYKNPAAFHQSHTEMMNRFKVWTYTEGEVPLFHDGPVNDIYGIEGQFMDEMCVDGPKSRSRFRADRPENAHVFFIPFSVAKVIHFVYKPITSVEGFSRARLHRLIEDYVDVVATKHPYWNRSQGGDHFMVSCHDWAPDVIDGNPKLFEKFIRGLCNANTSEGFRPNVDVSIPEIYLPKGKLGPSFLGKSPRVRSILAFFAGRSHGEIRKILFQHWKEMDNEVQVYDRLPPGKDYTKTMGMSKFCLCPSGWEVASPREVEAIYAGCVPVIISDNYSLPFSDVLNWDSFSIQIPVSRIKEIKTILQSVSLVRYLKMYKRVLEVKQHFVLNRPAKPYDVMHMMLHSIWLRRLNLRLGT |
| 5937 | sp|Q7AKI9|WHID\_STRCO | MADFSRLPGPNADLWDWQLLAACRGVDSSLFFHPEGERGAARSARENSAKEVCMRCPVRAECAAHALAVREPYGVWGGLTEDEREELMGRARNRLVAATASASAGGEAAGPH |
| 5938 | sp|P02774|VTDB\_HUMAN | MKRVLVLLLAVAFGHALERGRDYEKNKVCKEFSHLGKEDFTSLSLVLYSRKFPSGTFEQVSQLVKEVVSLTEACCAEGADPDCYDTRTSALSAKSCESNSPFPVHPGTAECCTKEGLERKLCMAALKHQPQEFPTYVEPTNDEICEAFRKDPKEYANQFMWEYSTNYGQAPLSLLVSYTKSYLSMVGSCCTSASPTVCFLKERLQLKHLSLLTTLSNRVCSQYAAYGEKKSRLSNLIKLAQKVPTADLEDVLPLAEDITNILSKCCESASEDCMAKELPEHTVKLCDNLSTKNSKFEDCCQEKTAMDVFVCTYFMPAAQLPELPDVELPTNKDVCDPGNTKVMDKYTFELSRRTHLPEVFLSKVLEPTLKSLGECCDVEDSTTCFNAKGPLLKKELSSFIDKGQELCADYSENTFTEYKKKLAERLKAKLPDATPTELAKLVNKHSDFASNCCSINSPPLYCDSEIDAELKNIL |
| 5939 | sp|Q9SEL5|VTI12\_ARATH | MSDVFEGYERQYCELSTNLSRKCHSASVLSNGEEKKGKIAEIKSGIDEADVLIRKMDLEARSLQPSAKAVCLSKLREYKSDLNQLKKEFKRVSSADAKPSSREELMESGMADLHAVSADQRGRLAMSVERLDQSSDRIRESRRLMLETEEVGISIVQDLSQQRQTLLHAHNKLHGVDDAIDKSKKVLTAMSRRMTRNKWIITSVIVALVLAIILIISYKLSH |
| 5940 | sp|P60170|VSGP\_EBOZM | MGVTGILQLPRDRFKRTSFFLWVIILFQRTFSIPLGVIHNSTLQVSDVDKLVCRDKLSSTNQLRSVGLNLEGNGVATDVPSATKRWGFRSGVPPKVVNYEAGEWAENCYNLEIKKPDGSECLPAAPDGIRGFPRCRYVHKVSGTGPCAGDFAFHKEGAFFLYDRLASTVIYRGTTFAEGVVAFLILPQAKKDFFSSHPLREPVNATEDPSSGYYSTTIRYQATGFGTNETEYLFEVDNLTYVQLESRFTPQFLLQLNETIYTSGKRSNTTGKLIWKVNPEIDTTIGEWAFWETKKTSLEKFAVKSCLSQLYQTEPKTSVVRVRRELLPTQGPTQQLKTTKSWLQKIPLQWFKCTVKEGKLQCRI |
| 5941 | sp|Q9LY00|WRK70\_ARATH | MDTNKAKKLKVMNQLVEGHDLTTQLQQLLSQPGSGLEDLVAKILVCFNNTISVLDTFEPISSSSSLAAVEGSQNASCDNDGKFEDSGDSRKRLGPVKGKRGCYKRKKRSETCTIESTILEDAFSWRKYGQKEILNAKFPRSYFRCTHKYTQGCKATKQVQKVELEPKMFSITYIGNHTCNTNAETPKSKTCDHHDEIFMDSEDHKSPSLSTSMKEEDNPHRHHGSSTENDLSLVWPEMVFEEDYHHQASYVNGKTSTSIDVLGSQDLMVFGGGGDFEFSENEHFSIFSSCSNLS |
| 5942 | sp|P67809|YBOX1\_HUMAN | MSSEAETQQPPAAPPAAPALSAADTKPGTTGSGAGSGGPGGLTSAAPAGGDKKVIATKVLGTVKWFNVRNGYGFINRNDTKEDVFVHQTAIKKNNPRKYLRSVGDGETVEFDVVEGEKGAEAANVTGPGGVPVQGSKYAADRNHYRRYPRRRGPPRNYQQNYQNSESGEKNEGSESAPEGQAQQRRPYRRRRFPPYYMRRPYGRRPQYSNPPVQGEVMEGADNQGAGEQGRPVRQNMYRGYRPRFRRGPPRQRQPREDGNEEDKENQGDETQGQQPPQRRYRRNFNYRRRRPENPKPQDGKETKAADPPAENSSAPEAEQGGAE |
| 5943 | sp|Q9LDT3|YAB4\_ARATH | MTKLPNMTTTLNHLFDLPGQICHVQCGFCTTILLVSVPFTSLSMVVTVRCGHCTSLLSVNLMKASFIPLHLLASLSHLDETGKEEVAATDGVEEEAWKVNQEKENSPTTLVSSSDNEDEDVSRVYQVVNKPPEKRQRAPSAYNCFIKEEIRRLKAQNPSMAHKEAFSLAAKNWAHFPPAHNKRAASDQCFCEEDNNAILPCNVFEDHEESNNGFRERKAQRHSIWGKSPFE |
| 5944 | sp|P0C2I3|YD15B\_YEAST | MESQQLSQHSPISHGSACASVTSKEVHTNQDPLDVSASKTEECEKASTKANSQQTTTPASSAVPENPHHASPQPASVPPPQNGPYPQQCMMTQNQANPSGWSFYGHPSMIPYTPYQMSPMYFPPGPQSQFPQYPSSVGTPLSTPSPESGNTFTDSSSADSDMTSTKKYVRPPPMLTSPNDFPNWVKTYIKFLQNSNLGGIIPTVNGKPVRQITDDELTFLYNTFQIFAPSQFLPTWVKDILSVDYTDIMKILSKSIEKMQSDTQEANDIVTLANLQYNGSTPADAFETKVTNIIDRLNNNGIHINNKVACQLIMRGLSGEYKFLRYTRHRHLNMTVAELFLDIHAIYEEQQGSRNSKPNYRRNLSDEKNDSRSYTNTTKPKVIARNPQKTNNSKSKTARAHNVSTSNNSPSTDNDSISKSTTEPIQLNNKHDLHLGQELTESTVNHTNHSDDELPGHLLLDSGASRTLIRSAHHIHSASSNPDINVVDAQKRNIPINAIGDLQFHFQDNTKTSIKVLHTPNIAYDLLSLNELAAVDITACFTKNVLERSDGTVLAPIVQYGDFYWVSKRYLLPSNISVPTINNVHTSESTRKYPYPFIHRMLAHANAQTIRYSLKNNTITYFNESDVDWSSAIDYQCPDCLIGKSTKHRHIKGSRLKYQNSYEPFQYLHTDIFGPVHNLPNSAPSYFISFTDETTKFRWVYPLHDRREDSILDVFTTILAFIKNQFQASVLVIQMDRGSEYTNRTLHKFLEKNGITPCYTTTADSRAHGVAERLNRTLLDDCRTQLQCSGLPNYLWFSAIEFSTIVRNSLASPKSKKSARQHAGLAGLDISTLLPFGQPVIVNDHNPNSKIHPRGIPGYALHPSRNSYGYIIYLPSLKKTVDTTNYVILQGKESRLDQFNYDALTFDEDLNRLTASYHSFIASNEIQESNDLNIESDHDFQSDIELHPEQPRNVLSKAVSPTDSTPPSTHTEDSKRVSKTNIRAPREVDPNISESNILPSKKRSSTPQISNIESTGSGGMHKLNVPLLAPMSQSNTHESSHASKSKDFRHSDSYSENETNHTNVPISSTGGTNNKTVPQISDQETEKRIIHRSPSIDASPPENNSSHNIVPIKTPTTVSEQNTEESIIADLPLPDLPPESPTEFPDPFKELPPINSRQTNSSLGGIGDSNAYTTINSKKRSLEDNETEIKVSRDTWNTKNMRSLEPPRSKKRIHLIAAVKAVKSIKPIRTTLRYDEAITYNKDIKEKEKYIEAYHKEVNQLLKMKTWDTDEYYDRKEIDPKRVINSMFIFNKKRDGTHKARFVARGDIQHPDTYDSGMQSNTVHHYALMTSLSLALDNNYYITQLDISSAYLYADIKEELYIRPPPHLGMNDKLIRLKKSLYGLKQSGANWYETIKSYLIQQCGMEEVRGWSCVFKNSQVTICLFVDDMVLFSKNLNSNKRIIEKLKMQYDTKIINLGESDEEIQYDILGLEIKYQRGKYMKLGMENSLTEKIPKLNVPLNPKGRKLSAPGQPGLYIDQDELEIDEDEYKEKVHEMQKLIGLASYVGYKFRFDLLYYINTLAQHILFPSRQVLDMTYELIQFMWDTRDKQLIWHKNKPTKPDNKLVAISDASYGNQPYYKSQIGNIFLLNGKVIGGKSTKASLTCTSTTEAEIHAVSEAIPLLNNLSHLVQELNKKPIIKGLLTDSRSTISIIKSTNEEKFRNRFFGTKAMRLRDEVSGNNLYVYYIETKKNIADVMTKPLPIKTFKLLTNKWIH |
| 5945 | sp|P0A840|SURE\_ECOLI | MRILLSNDDGVHAPGIQTLAKALREFADVQVVAPDRNRSGASNSLTLESSLRTFTFENGDIAVQMGTPTDCVYLGVNALMRPRPDIVVSGINAGPNLGDDVIYSGTVAAAMEGRHLGFPALAVSLDGHKHYDTAAAVTCSILRALCKEPLRTGRILNINVPDLPLDQIKGIRVTRCGTRHPADQVIPQQDPRGNTLYWIGPPGGKCDAGPGTDFAAVDEGYVSITPLHVDLTAHSAQDVVSDWLNSVGVGTQW |
| 5946 | sp|P0CE12|SSPH2\_SALTY | MPFHIGSGCLPATISNRRIYRIAWSDTPPEMSSWEKMKEFFCSTHQTEALECIWTICHPPAGTTREDVINRFELLRTLAYAGWEESIHSGQHGENYFCILDEDSQEILSVTLDDAGNYTVNCQGYSETHRLTLDTAQGEEGTGHAEGASGTFRTSFLPATTAPQTPAEYDAVWSAWRRAAPAEESRGRAAVVQKMRACLNNGNAVLNVGESGLTTLPDCLPAHITTLVIPDNNLTSLPALPPELRTLEVSGNQLTSLPVLPPGLLELSIFSNPLTHLPALPSGLCKLWIFGNQLTSLPVLPPGLQELSVSDNQLASLPALPSELCKLWAYNNQLTSLPMLPSGLQELSVSDNQLASLPTLPSELYKLWAYNNRLTSLPALPSGLKELIVSGNRLTSLPVLPSELKELMVSGNRLTSLPMLPSGLLSLSVYRNQLTRLPESLIHLSSETTVNLEGNPLSERTLQALREITSAPGYSGPIIRFDMAGASAPRETRALHLAAADWLVPAREGEPAPADRWHMFGQEDNADAFSLFLDRLSETENFIKDAGFKAQISSWLAQLAEDEALRANTFAMATEATSSCEDRVTFFLHQMKNVQLVHNAEKGQYDNDLAALVATGREMFRLGKLEQIAREKVRTLALVDEIEVWLAYQNKLKKSLGLTSVTSEMRFFDVSGVTVTDLQDAELQVKAAEKSEFREWILQWGPLHRVLERKAPERVNALREKQISDYEETYRMLSDTELRPSGLVGNTDAERTIGARAMESAKKTFLDGLRPLVEEMLGSYLNVQWRRN |
| 5947 | sp|Q5E9L6|STK4\_BOVIN | METVQLRNPPRRQLKKLDEDSLTKQPEEVFDVLEKLGEGSYGSVYKAIHKETGQIVAIKQVPVESDLQEIIKEISIMQQCDSPHVVKYYGSYFKNTDLWIVMEYCGAGSVSDIIRLRNKTLTEDEIATILQSTLKGLEYLHFMRKIHRDIKAGNILLNTEGHAKLADFGVAGQLTDTMAKRNTVIGTPFWMAPEVIQEIGYNCVADIWSLGITAIEMAEGKPPYADIHPMRAIFMIPTNPPPTFRKPELWSDSFMDFVKQCLVKSPEQRATATQLLQHPFVKSAKGVSILRDLINEAMDVKLKRQEAQQREVDQEEEENSEEDELDSGTMVRAAGDEMGTVRVASSMSDGANTMIEHDDTLPSQLGTMVINTEDEEEEGTMKRRDETMQPARPSFLEYFEQKEKENQINSFGKSVPGPLQNSSDWKVPQDGDYEFLKSWTVEDLQKRLLALDPMMEQEIEEIRQKYQSKRQPILDAIEAKKRRQQNF |
| 5948 | sp|Q15532|SSXT\_HUMAN | MSVAFAAPRQRGKGEITPAAIQKMLDDNNHLIQCIMDSQNKGKTSECSQYQQMLHTNLVYLATIADSNQNMQSLLPAPPTQNMPMGPGGMNQSGPPPPPRSHNMPSDGMVGGGPPAPHMQNQMNGQMPGPNHMPMQGPGPNQLNMTNSSMNMPSSSHGSMGGYNHSVPSSQSMPVQNQMTMSQGQPMGNYGPRPNMSMQPNQGPMMHQQPPSQQYNMPQGGGQHYQGQQPPMGMMGQVNQGNHMMGQRQIPPYRPPQQGPPQQYSGQEDYYGDQYSHGGQGPPEGMNQQYYPDGHNDYGYQQPSYPEQGYDRPYEDSSQHYYEGGNSQYGQQQDAYQGPPPQQGYPPQQQQYPGQQGYPGQQQGYGPSQGGPGPQYPNYPQGQGQQYGGYRPTQPGPPQPPQQRPYGYDQGQYGNYQQ |
| 5949 | sp|O54748|STK3\_RAT | MEQPPAPKSKLKKLSEDSLTKQPEEVFDVLEKLGEGSYGSVFKAIHKESGQVVAIKQVPVESDVQEIIKEISIMQQCDSPYVVKYYGSYFKNTDLWIVMEYCGAGSVSDIIRLRNKTLTEDEIATILKSTLKGLEYLHFMRKIHRDIKAGNILLNTEGHAKLADFGVAGQLTDTMAKRNTVIGTPFWMAPEVIQEIGYNCVADIWSLGITSIEMAEGKPPYADIHPMRAIFMIPTNPPPTFRKPELWSDDFTDFVKKCLVKSPEQRATATQLLQHPFIKNAKPVSILRELITEGMEIKAKRHEEQQRELEDEEENSDEDELDSHTMVKTSSEGVGTMRATSTMSEGAQTMIEHNSTMLESDLGTMVINSEDEEEEDGTMKRNATSPQVQRPSFMDYFDKQDFKNKSHENCDQSMREPCPMSNNVFPDNWRVPQDGDFDFLKNLSLEELQMRLKALDPMMEREIEELHQRYSAKRQPILDAMDAKKRRQQNF |
| 5950 | sp|O95562|SFT2B\_HUMAN | MDKLKKVLSGQDTEDRSGLSEVVEASSLSWSTRIKGFIACFAIGILCSLLGTVLLWVPRKGLHLFAVFYTFGNIASIGSTIFLMGPVKQLKRMFEPTRLIATIMVLLCFALTLCSAFWWHNKGLALIFCILQSLALTWYSLSFIPFARDAVKKCFAVCLA |
| 5951 | sp|Q92783|STAM1\_HUMAN | MPLFATNPFDQDVEKATSEMNTAEDWGLILDICDKVGQSRTGPKDCLRSIMRRVNHKDPHVAMQALTLLGACVSNCGKIFHLEVCSRDFASEVSNVLNKGHPKVCEKLKALMVEWTDEFKNDPQLSLISAMIKNLKEQGVTFPAIGSQAAEQAKASPALVAKDPGTVANKKEEEDLAKAIELSLKEQRQQSTTLSTLYPSTSSLLTNHQHEGRKVRAIYDFEAAEDNELTFKAGEIITVLDDSDPNWWKGETHQGIGLFPSNFVTADLTAEPEMIKTEKKTVQFSDDVQVETIEPEPEPAFIDEDKMDQLLQMLQSTDPSDDQPDLPELLHLEAMCHQMGPLIDEKLEDIDRKHSELSELNVKVMEALSLYTKLMNEDPMYSMYAKLQNQPYYMQSSGVSGSQVYAGPPPSGAYLVAGNAQMSHLQSYSLPPEQLSSLSQAVVPPSANPALPSQQTQAAYPNTMVSSVQGNTYPSQAPVYSPPPAATAAAATADVTLYQNAGPNMPQVPNYNLTSSTLPQPGGSQQPPQPQQPYSQKALL |
| 5952 | sp|Q9VEX0|SULF1\_DROME | MMRHSSLRLIIGGLILLLFVLNVFSKEQGSHSHKRSHSAKRFSRDSNSARERRPNIILILTDDQDVELGSLNFMPRTLRLLRDGGAEFRHAYTTTPMCCPARSSLLTGMYVHNHMVFTNNDNCSSPQWQATHETRSYATYLSNAGYRTGYFGKYLNKYNGSYIPPGWREWGGLIMNSKYYNYSINLNGQKIKHGFDYAKDYYPDLIANDSIAFLRSSKQQNQRKPVLLTMSFPAPHGPEDSAPQYSHLFFNVTTHHTPSYDHAPNPDKQWILRVTEPMQPVHKRFTNLLMTKRLQTLQSVDVAVERVYNELKELGELDNTYIVYTSDHGYHLGQFGLIKGKSFPFEFDVRVPFLIRGPGIQASKVVNEIVLNVDLAPTFLDMGGVPTPQHMDGRSILPLLLSRNRAVRDNWPDSFLIESSGRRETAEQIAESRARLQIERRNMKLANSSLLEDFLEGAGESTTIVSSSSTAATLMSSTAQQPEDGEEEVETDNEEDDVDGDGAMDSSAAALEEDDLDDAAFEEGDEELDQEFQQNNDLPLAPYITKMMRLNSECSDPALLKNCLPGQKWKCVNEEGRWRKHKCKFHLQLEHQLAAMPRKQYQRNCACFTPDGVVYTKIRAPSAGLHRVNKRTHNGPGRRRNKREVFHTELPDEMEELLDLHQVVDQLVDHTHRSKRDLPASSNETIAQVIQQIQSTLEILELKFNEHELHASNSSGNSYERGEKYTKSGGHRCFVDATTAKVNCSNVIYDDEKTWRTSRTQIDMLIKLLKDKIGKLKEMKKQLRESNKQALAAGRRNDNRRRNDQSVLDSGAGPEFNMSYFTEISSTPRSNVVGQTEVFQGYGSASAFDSLEQTQSHRFTPRAECYCEPDVGENHADSKEMAREARRKLKEERQRKKERKRIKKARLEKECLSEKMNCFSHDNQHWRTAPLWNDSPFCFCMNANNNTYSCLRTINGTHNFLYCEFTTGLITFYNLTIDRFETINRAAGLTPGERSHMHDALDQLKSCRGRSCSIRRHQNHLEGGSSAPLLPINQVHRNNKRKHSPLAGAVGNYAFVGPRLDMEALPPIKRRKLSKYNRLTGSQQSHMKRRPWKQTPLQQSPRFLRTHSVTPAQA |
| 5953 | sp|Q96I59|SYNM\_HUMAN | MLGVRCLLRSVRFCSSAPFPKHKPSAKLSVRDALGAQNASGERIKIQGWIRSVRSQKEVLFLHVNDGSSLESLQVVADSGLDSRELNFGSSVEVQGQLIKSPSKRQNVELKAEKIKVIGNCDAKDFPIKYKERHPLEYLRQYPHFRCRTNVLGSILRIRSEATAAIHSFFKDSGFVHIHTPIITSNDSEGAGELFQLEPSGKLKVPEENFFNVPAFLTVSGQLHLEVMSGAFTQVFTFGPTFRAENSQSRRHLAEFYMIEAEISFVDSLQDLMQVIEELFKATTMMVLSKCPEDVELCHKFIAPGQKDRLEHMLKNNFLIISYTEAVEILKQASQNFTFTPEWGADLRTEHEKYLVKHCGNIPVFVINYPLTLKPFYMRDNEDGPQHTVAAVDLLVPGVGELFGGGLREERYHFLEERLARSGLTEVYQWYLDLRRFGSVPHGGFGMGFERYLQCILGVDNIKDVIPFPRFPHSCLL |
| 5954 | sp|P49591|SYSC\_HUMAN | MVLDLDLFRVDKGGDPALIRETQEKRFKDPGLVDQLVKADSEWRRCRFRADNLNKLKNLCSKTIGEKMKKKEPVGDDESVPENVLSFDDLTADALANLKVSQIKKVRLLIDEAILKCDAERIKLEAERFENLREIGNLLHPSVPISNDEDVDNKVERIWGDCTVRKKYSHVDLVVMVDGFEGEKGAVVAGSRGYFLKGVLVFLEQALIQYALRTLGSRGYIPIYTPFFMRKEVMQEVAQLSQFDEELYKVIGKGSEKSDDNSYDEKYLIATSEQPIAALHRDEWLRPEDLPIKYAGLSTCFRQEVGSHGRDTRGIFRVHQFEKIEQFVYSSPHDNKSWEMFEEMITTAEEFYQSLGIPYHIVNIVSGSLNHAASKKLDLEAWFPGSGAFRELVSCSNCTDYQARRLRIRYGQTKKMMDKVEFVHMLNATMCATTRTICAILENYQTEKGITVPEKLKEFMPPGLQELIPFVKPAPIEQEPSKKQKKQHEGSKKKAAARDVTLENRLQNMEVTDA |
| 5955 | sp|Q6N022|TEN4\_HUMAN | MDVKERKPYRSLTRRRDAERRYTSSSADSEEGKAPQKSYSSSETLKAYDQDARLAYGSRVKDIVPQEAEEFCRTGANFTLRELGLEEVTPPHGTLYRTDIGLPHCGYSMGAGSDADMEADTVLSPEHPVRLWGRSTRSGRSSCLSSRANSNLTLTDTEHENTETDHPGGLQNHARLRTPPPPLSHAHTPNQHHAASINSLNRGNFTPRSNPSPAPTDHSLSGEPPAGGAQEPAHAQENWLLNSNIPLETRNLGKQPFLGTLQDNLIEMDILGASRHDGAYSDGHFLFKPGGTSPLFCTTSPGYPLTSSTVYSPPPRPLPRSTFARPAFNLKKPSKYCNWKCAALSAIVISATLVILLAYFVAMHLFGLNWHLQPMEGQMYEITEDTASSWPVPTDVSLYPSGGTGLETPDRKGKGTTEGKPSSFFPEDSFIDSGEIDVGRRASQKIPPGTFWRSQVFIDHPVHLKFNVSLGKAALVGIYGRKGLPPSHTQFDFVELLDGRRLLTQEARSLEGTPRQSRGTVPPSSHETGFIQYLDSGIWHLAFYNDGKESEVVSFLTTAIESVDNCPSNCYGNGDCISGTCHCFLGFLGPDCGRASCPVLCSGNGQYMKGRCLCHSGWKGAECDVPTNQCIDVACSNHGTCITGTCICNPGYKGESCEEVDCMDPTCSGRGVCVRGECHCSVGWGGTNCETPRATCLDQCSGHGTFLPDTGLCSCDPSWTGHDCSIEICAADCGGHGVCVGGTCRCEDGWMGAACDQRACHPRCAEHGTCRDGKCECSPGWNGEHCTIAHYLDRVVKEGCPGLCNGNGRCTLDLNGWHCVCQLGWRGAGCDTSMETACGDSKDNDGDGLVDCMDPDCCLQPLCHINPLCLGSPNPLDIIQETQVPVSQQNLHSFYDRIKFLVGRDSTHIIPGENPFDGGHACVIRGQVMTSDGTPLVGVNISFVNNPLFGYTISRQDGSFDLVTNGGISIILRFERAPFITQEHTLWLPWDRFFVMETIIMRHEENEIPSCDLSNFARPNPVVSPSPLTSFASSCAEKGPIVPEIQALQEEISISGCKMRLSYLSSRTPGYKSVLRISLTHPTIPFNLMKVHLMVAVEGRLFRKWFAAAPDLSYYFIWDKTDVYNQKVFGLSEAFVSVGYEYESCPDLILWEKRTTVLQGYEIDASKLGGWSLDKHHALNIQSGILHKGNGENQFVSQQPPVIGSIMGNGRRRSISCPSCNGLADGNKLLAPVALTCGSDGSLYVGDFNYIRRIFPSGNVTNILELRNKDFRHSHSPAHKYYLATDPMSGAVFLSDSNSRRVFKIKSTVVVKDLVKNSEVVAGTGDQCLPFDDTRCGDGGKATEATLTNPRGITVDKFGLIYFVDGTMIRRIDQNGIISTLLGSNDLTSARPLSCDSVMDISQVHLEWPTDLAINPMDNSLYVLDNNVVLQISENHQVRIVAGRPMHCQVPGIDHFLLSKVAIHATLESATALAVSHNGVLYIAETDEKKINRIRQVTTSGEISLVAGAPSGCDCKNDANCDCFSGDDGYAKDAKLNTPSSLAVCADGELYVADLGNIRIRFIRKNKPFLNTQNMYELSSPIDQELYLFDTTGKHLYTQSLPTGDYLYNFTYTGDGDITLITDNNGNMVNVRRDSTGMPLWLVVPDGQVYWVTMGTNSALKSVTTQGHELAMMTYHGNSGLLATKSNENGWTTFYEYDSFGRLTNVTFPTGQVSSFRSDTDSSVHVQVETSSKDDVTITTNLSASGAFYTLLQDQVRNSYYIGADGSLRLLLANGMEVALQTEPHLLAGTVNPTVGKRNVTLPIDNGLNLVEWRQRKEQARGQVTVFGRRLRVHNRNLLSLDFDRVTRTEKIYDDHRKFTLRILYDQAGRPSLWSPSSRLNGVNVTYSPGGYIAGIQRGIMSERMEYDQAGRITSRIFADGKTWSYTYLEKSMVLLLHSQRQYIFEFDKNDRLSSVTMPNVARQTLETIRSVGYYRNIYQPPEGNASVIQDFTEDGHLLHTFYLGTGRRVIYKYGKLSKLAETLYDTTKVSFTYDETAGMLKTINLQNEGFTCTIRYRQIGPLIDRQIFRFTEEGMVNARFDYNYDNSFRVTSMQAVINETPLPIDLYRYDDVSGKTEQFGKFGVIYYDINQIITTAVMTHTKHFDAYGRMKEVQYEIFRSLMYWMTVQYDNMGRVVKKELKVGPYANTTRYSYEYDADGQLQTVSINDKPLWRYSYDLNGNLHLLSPGNSARLTPLRYDIRDRITRLGDVQYKMDEDGFLRQRGGDIFEYNSAGLLIKAYNRAGSWSVRYRYDGLGRRVSSKSSHSHHLQFFYADLTNPTKVTHLYNHSSSEITSLYYDLQGHLFAMELSSGDEFYIACDNIGTPLAVFSGTGLMIKQILYTAYGEIYMDTNPNFQIIIGYHGGLYDPLTKLVHMGRRDYDVLAGRWTSPDHELWKHLSSSNVMPFNLYMFKNNNPISNSQDIKCFMTDVNSWLLTFGFQLHNVIPGYPKPDMDAMEPSYELIHTQMKTQEWDNSKSILGVQCEVQKQLKAFVTLERFDQLYGSTITSCQQAPKTKKFASSGSVFGKGVKFALKDGRVTTDIISVANEDGRRVAAILNHAHYLENLHFTIDGVDTHYFVKPGPSEGDLAILGLSGGRRTLENGVNVTVSQINTVLNGRTRRYTDIQLQYGALCLNTRYGTTLDEEKARVLELARQRAVRQAWAREQQRLREGEEGLRAWTEGEKQQVLSTGRVQGYDGFFVISVEQYPELSDSANNIHFMRQSEMGRR |
| 5956 | sp|P38987|TEM1\_YEAST | MATPSTGANNSIPAVRNQVEVQVGLVGDAQVGKTSLMVKYVQNIYDKEYTQTLGVNFLKRKVSIRSTDIIFSIMDLGGQREFINMLPIATVGSSVIIFLFDLTRPETLSSIKEWYRQAYGLNDSAIPILVGTKYDLLIDLDPEYQEQISRTSMKYAQVMNAPLIFCSTAKSINIQKIFKIALAKIFNLTLTIPEINEIGDPLLIYKHLGGQQHRHHNKSQDRKSHNIRKPSSSPSSKAPSPGVNT |
| 5957 | sp|Q63754|SYUB\_RAT | MDVFMKGLSMAKEGVVAAAEKTKQGVTEAAEKTKEGVLYVGSKTKEGVVQGVASVAEKTKEQASHLGGAVFSGAGNIAAATGLVKKEEFPTDLKPEEVAQEAAEEPLIEPLMEPEGESYEDSPQEEYQEYEPEAKGP |
| 5958 | sp|P56581|TDG\_MOUSE | MDAEAARSYSLEQVQALYSFPFQQMMAEVPNMAVTTGQQVPAVAPNMATVTEQQVPEDAPVQEPAPEAPKRRKRKPRAAEPQEPVEPKKPATSKKSGKSTKSKEKQEKITDAFKVKRKVDRFNGVSEAELLTKTLPDILTFNLDIVIIGINPGLMAAYKGHHYPGPGNHFWKCLFMSGLSEVQLNHMDDHTLPGKYGIGFTNMVERTTPGSKDLSSKEFREGGRILVQKLQKYQPRIAVFNGKCIYEIFSKEVFGVKVKNLEFGLQPHKIPDTETLCYVMPSSSARCAQFPRAQDKVHYYIKLKDLRDQLKGIERNADVQEVQYTFDLQLAQEDAKKMAVKEEKYDPGYEAAYGGAYGENPCNGEPCGIASNGLTAHSAEPRGEAAPSDVPNGQWMAQSFAEQIPSFNNCGTREQEEESHA |
| 5959 | sp|P13984|T2FB\_HUMAN | MAERGELDLTGAKQNTGVWLVKVPKYLSQQWAKASGRGEVGKLRIAKTQGRTEVSFTLNEDLANIHDIGGKPASVSAPREHPFVLQSVGGQTLTVFTESSSDKLSLEGIVVQRAECRPAASENYMRLKRLQIEESSKPVRLSQQLDKVVTTNYKPVANHQYNIEYERKKKEDGKRARADKQHVLDMLFSAFEKHQYYNLKDLVDITKQPVVYLKEILKEIGVQNVKGIHKNTWELKPEYRHYQGEEKSD |
| 5960 | sp|P61407|TDRD6\_MOUSE | MSSTPGLPTPGASLALRVSFVDVHPEVIPVQLWGLVGQRREEYVRLSREIQEAAATRGPWALGGASASPGELCLVQVGLMWHRCRVVSRQAQDSRVFLLDEGRTITAGAGSLAPGRSEFFHLPSEVLGCVLAGLVPAGGGGTGGGEPQQWSPRAVDFLSNLQGKEVHGRVLDVLLLHRLVLLEVPVVSQQMEELGLARQVPDSLFCSLLKRYLTAAGQGSSGAPVLPRAAPKQEHPGLDYFYPQLQLGVTEPVVVTQVCHPHRIHCQLRSLSQEIHRLSESMAQVYRAPVGTDDEDSGSATWEEREESPDKPGSPCASCGLDGQWYRALLLETFRPQRCAQVLHVDYGRKELVSCSSLRYLLPEYFRMPVVTYPCALYGLWDCGRGWSRSQVGDLKALILGQAVNAKIEFYCSFEHMYYVTLYGEDGINLNSAFGVQSCCLADWFLQSQGIEEEEEEDEDEVEAAFQSQSPAEEMEAEVSLPSLRSIRLKMNTFYDAQVEFVKSPSEFWIRLRKHKNTFSKLTKRMCSFYSSASKLDGVILRPEPDDLCCVKWKENGYYRATVTRLDSKSVDVFLVDRGNSENVDWCDVRMLLPQFRQLPILALKCTLADIWPLGKTWSQEATSFFKKTVLHKELVVHVLDKQDHQYVIEILDESRMGEENISKVIAQAGFAKFQEFETKENIRLSAHSPGHVSGHFMAEPSKITSAKKAEGDQRAKKDNKTLSVSEALADTVSLSNLSTAQDTEKVTSDPSLLMLNFLKTKPDCCGKGELEVGSTVEVKVSHIENPGSFWCQLMRNAQGFRTLMCDIEDYCKSSEPSPYEGDTRVCLAKRTASGRWSRALISGAHSLEHVRVVFVDYGDRDVVSTKDILSVSDVFFQVRAQAFRCSLYNLIQPMGENPFVWDEKAVQAFSGFIDSARQNNLELKCTVFALASRHEEEWFNVVDLLTPFQSACRFLVEKRLARPVKHQKPLEPSVQLHSYYYSTHDLKIGSEELVYVTHADDPWTFYCQLARNINVLEQLSYNIMQLSKALLNLKASTLAPGTLCLARYTDGNWYRGIIIEKEPSKVFFVDFGNTYIAVDHLLPIPRDAHDVLLLPMQALKCSLSDIPHHIPEEVTAWFQETVLDKSLKALVVAKDPDGRLIIELYDDSVQINASINEKLGLLGYKNRTRRKEKENEIILHETKALEDKKESVKPSLADYLGKPGESKAHSIEIMGESCKPKMGPACKELRYLQGSAKANLVPPYQDSVGNKNDGGFPLTREKKEDIFASSPMSGTKLDSALPERRMGEPSGRDLPPKFCEFPQKTIAPGFKTSVYVSHINDLSDFYIQLIEDEAEINNLSERLNDVRTRPQYHTGPQWQSGDVICAVFPEDNLWYRALVMEQQPNGLLSVQFIDYGNMSVVHTNRTGRLGPVDAVLPALCLHCSLWGLSVPVCKEMVSYFSQRTDEAQIRCEFVKFQGTWEVILADEHGVIAEDMISRFPCNGNSQAGLTTQTMKGDCLKIANKPNTDTSVLLNWYNPKAKLIKAYATVIDGPEYFWCQFADSEKLQYLETEVQSAGKQLSDRRSCTQCPQIGDPCIVRYREDGHYYRALITNICDGELASVRLVDFGNAEDCVDAKELWSIPSELLLVPMQAFPCCLAGFSVSGGVCPQEGNDYFYDIVTEDVLDITILEIKRDVCNIPLAIVELRSKGENINEKMKKYAKTGVPKNDLSSEKRGPERKGSLASPDLGLKKPSHKIAQDKTFYGEARASELSERLEKDLNIETKTSKFYERSTRSIFNAFENSCKGKMGSERLEGSMDYHFVDRAKFDNNYLITGFNPILAHASEPKELLELSSLEVPLSADNDDECKEFLELESIELQHSPAGEEEKEELGLGSPMAPLSPGCQAGATLESFMMQLPLDCEAEKQLELKLPTPQLSLEDSISPLSAAVSQDIQGSRCSEDERKAGYMGSSDDDHSRSPLLQHGKGGNSPAHDGRNLSEEEFPQFESRDSAALLAPLFSEEEAREGRKCGSMVPAQLQSTYTLKGFSVGSKCVVWSSLRNTWSKCEILELAEEGTRVLNLSNGVEETVSPENVWNGIPKVDKRPSEAVFQTVGKDLPFMPSDDATTKGFSSVSEEEACGGDADSLSTAKLNI |
| 5961 | sp|Q9UQP3|TENN\_HUMAN | MSLQEMFRFPMGLLLGSVLLVASAPATLEPPGCSNKEQQVTVSHTYKIDVPKSALVQVDADPQPLSDDGASLLALGEAREEQNIIFRHNIRLQTPQKDCELAGSVQDLLARVKKLEEEMVEMKEQCSAQRCCQGVTDLSRHCSGHGTFSLETCSCHCEEGREGPACERLACPGACSGHGRCVDGRCLCHEPYVGADCGYPACPENCSGHGECVRGVCQCHEDFMSEDCSEKRCPGDCSGHGFCDTGECYCEEGFTGLDCAQVVTPQGLQLLKNTEDSLLVSWEPSSQVDHYLLSYYPLGKELSGKQIQVPKEQHSYEILGLLPGTKYIVTLRNVKNEVSSSPQHLLATTDLAVLGTAWVTDETENSLDVEWENPSTEVDYYKLRYGPMTGQEVAEVTVPKSSDPKSRYDITGLHPGTEYKITVVPMRGELEGKPILLNGRTEIDSPTNVVTDRVTEDTATVSWDPVQAVIDKYVVRYTSADGDTKEMAVHKDESSTVLTGLKPGEAYKVYVWAERGNQGSKKADTNALTEIDSPANLVTDRVTENTATISWDPVQATIDKYVVRYTSADDQETREVLVGKEQSSTVLTGLRPGVEYTVHVWAQKGDRESKKADTNAPTDIDSPKNLVTDRVTENMATVSWDPVQAAIDKYVVRYTSAGGETREVPVGKEQSSTVLTGLRPGMEYMVHVWAQKGDQESKKADTKAQTDIDSPQNLVTDRVTENMATVSWDPVRATIDRYVVRYTSAKDGETREVPVGKEQSSTVLTGLRPGVEYTVHVWAQKGAQESKKADTKAQTDIDSPQNLVTDWVTENTATVSWDPVQATIDRYVVHYTSANGETREVPVGKEQSSTVLTGLRPGMEYTVHVWAQKGNQESKKADTKAQTEIDGPKNLVTDWVTENMATVSWDPVQATIDKYMVRYTSADGETREVPVGKEHSSTVLTGLRPGMEYMVHVWAQKGAQESKKADTKAQTELDPPRNLRPSAVTQSGGILTWTPPSAQIHGYILTYQFPDGTVKEMQLGREDQRFALQGLEQGATYPVSLVAFKGGRRSRNVSTTLSTVGARFPHPSDCSQVQQNSNAASGLYTIYLHGDASRPLQVYCDMETDGGGWIVFQRRNTGQLDFFKRWRSYVEGFGDPMKEFWLGLDKLHNLTTGTPARYEVRVDLQTANESAYAIYDFFQVASSKERYKLTVGKYRGTAGDALTYHNGWKFTTFDRDNDIALSNCALTHHGGWWYKNCHLANPNGRYGETKHSEGVNWEPWKGHEFSIPYVELKIRPHGYSREPVLGRKKRTLRGRLRTF |
| 5962 | sp|P04610|TAT\_HV1BR | MEPVDPRLEPWKHPGSQPKTACTTCYCKKCCFHCQVCFTTKALGISYGRKKRRQRRRPPQGSQTHQVSLSKQPTSQPRGDPTGPKE |
| 5963 | sp|P69428|TATA\_ECOLI | MGGISIWQLLIIAVIVVLLFGTKKLGSIGSDLGASIKGFKKAMSDDEPKQDKTSQDADFTAKTIADKQADTNQEQAKTEDAKRHDKEQV |
| 5964 | sp|P20062|TCO2\_HUMAN | MRHLGAFLFLLGVLGALTEMCEIPEMDSHLVEKLGQHLLPWMDRLSLEHLNPSIYVGLRLSSLQAGTKEDLYLHSLKLGYQQCLLGSAFSEDDGDCQGKPSMGQLALYLLALRANCEFVRGHKGDRLVSQLKWFLEDEKRAIGHDHKGHPHTSYYQYGLGILALCLHQKRVHDSVVDKLLYAVEPFHQGHHSVDTAAMAGLAFTCLKRSNFNPGRRQRITMAIRTVREEILKAQTPEGHFGNVYSTPLALQFLMTSPMRGAELGTACLKARVALLASLQDGAFQNALMISQLLPVLNHKTYIDLIFPDCLAPRVMLEPAAETIPQTQEIISVTLQVLSLLPPYRQSISVLAGSTVEDVLKKAHELGGFTYETQASLSGPYLTSVMGKAAGEREFWQLLRDPNTPLLQGIADYRPKDGETIELRLVSW |
| 5965 | sp|Q8C838|TARG1\_MOUSE | MANPAQPPLQDPGSTSPLELPEMEKLLTKVENKDDQALNLSKSLSGALDLEQNGHSLPFKVISEGHRQPSLSGSPSRVSSRRASSVITTSYAQDQEAPKDYLVLAIASCFCPVWPLNLIPLIFSIMSRSSVQQGDLDGARRLGRLARLLSITFIILGIVIIIVAVTVNFTVPK |
| 5966 | sp|Q62296|TEAD4\_MOUSE | MTSNEWSSPDSPEGSSISGGSQALDKPIDNDAEGVWSPEIERSFQEALAIYPPCGRRKIILTEEGKMYGRNELIARHIKLRTGKTRTRKQVSSHIQVLARRKAREIQAKLKDQAAKNKALQSMAAMSSAQIVSATAFHSKMALARGPGYPAISGFWQGALPGQPGTSHDVKPFSQNTYPVQPPLPLPGFESPAGPTPSPSAPLAPPWQGRSIASSKLWMLEFSAFLERQQDPDTYNKHLFVHISQSSPSYSDPYLETVDIRQIYDKFPEKKGGLKELFERGPSNAFFLVKFWADLNTNIDDEGSAFYGVSSQYESPENMIITCSTKVCSFGKQVVEKVETEYARYENGHYLYRIHRSPLCEYMINFIHKLKHLPEKYMMNSVLENFTILQVVTNRDTQETLLCIAYVFEVSASEHGAQHHIYRLVKE |
| 5967 | sp|O43151|TET3\_HUMAN | MSQFQVPLAVQPDLPGLYDFPQRQVMVGSFPGSGLSMAGSESQLRGGGDGRKKRKRCGTCEPCRRLENCGACTSCTNRRTHQICKLRKCEVLKKKVGLLKEVEIKAGEGAGPWGQGAAVKTGSELSPVDGPVPGQMDSGPVYHGDSRQLSASGVPVNGAREPAGPSLLGTGGPWRVDQKPDWEAAPGPAHTARLEDAHDLVAFSAVAEAVSSYGALSTRLYETFNREMSREAGNNSRGPRPGPEGCSAGSEDLDTLQTALALARHGMKPPNCNCDGPECPDYLEWLEGKIKSVVMEGGEERPRLPGPLPPGEAGLPAPSTRPLLSSEVPQISPQEGLPLSQSALSIAKEKNISLQTAIAIEALTQLSSALPQPSHSTPQASCPLPEALSPPAPFRSPQSYLRAPSWPVVPPEEHSSFAPDSSAFPPATPRTEFPEAWGTDTPPATPRSSWPMPRPSPDPMAELEQLLGSASDYIQSVFKRPEALPTKPKVKVEAPSSSPAPAPSPVLQREAPTPSSEPDTHQKAQTALQQHLHHKRSLFLEQVHDTSFPAPSEPSAPGWWPPPSSPVPRLPDRPPKEKKKKLPTPAGGPVGTEKAAPGIKPSVRKPIQIKKSRPREAQPLFPPVRQIVLEGLRSPASQEVQAHPPAPLPASQGSAVPLPPEPSLALFAPSPSRDSLLPPTQEMRSPSPMTALQPGSTGPLPPADDKLEELIRQFEAEFGDSFGLPGPPSVPIQDPENQQTCLPAPESPFATRSPKQIKIESSGAVTVLSTTCFHSEEGGQEATPTKAENPLTPTLSGFLESPLKYLDTPTKSLLDTPAKRAQAEFPTCDCVEQIVEKDEGPYYTHLGSGPTVASIRELMEERYGEKGKAIRIEKVIYTGKEGKSSRGCPIAKWVIRRHTLEEKLLCLVRHRAGHHCQNAVIVILILAWEGIPRSLGDTLYQELTDTLRKYGNPTSRRCGLNDDRTCACQGKDPNTCGASFSFGCSWSMYFNGCKYARSKTPRKFRLAGDNPKEEEVLRKSFQDLATEVAPLYKRLAPQAYQNQVTNEEIAIDCRLGLKEGRPFAGVTACMDFCAHAHKDQHNLYNGCTVVCTLTKEDNRCVGKIPEDEQLHVLPLYKMANTDEFGSEENQNAKVGSGAIQVLTAFPREVRRLPEPAKSCRQRQLEARKAAAEKKKIQKEKLSTPEKIKQEALELAGITSDPGLSLKGGLSQQGLKPSLKVEPQNHFSSFKYSGNAVVESYSVLGNCRPSDPYSMNSVYSYHSYYAQPSLTSVNGFHSKYALPSFSYYGFPSSNPVFPSQFLGPGAWGHSGSSGSFEKKPDLHALHNSLSPAYGGAEFAELPSQAVPTDAHHPTPHHQQPAYPGPKEYLLPKAPLLHSVSRDPSPFAQSSNCYNRSIKQEPVDPLTQAEPVPRDAGKMGKTPLSEVSQNGGPSHLWGQYSGGPSMSPKRTNGVGGSWGVFSSGESPAIVPDKLSSFGASCLAPSHFTDGQWGLFPGEGQQAASHSGGRLRGKPWSPCKFGNSTSALAGPSLTEKPWALGAGDFNSALKGSPGFQDKLWNPMKGEEGRIPAAGASQLDRAWQSFGLPLGSSEKLFGALKSEEKLWDPFSLEEGPAEEPPSKGAVKEEKGGGGAEEEEEELWSDSEHNFLDENIGGVAVAPAHGSILIECARRELHATTPLKKPNRCHPTRISLVFYQHKNLNQPNHGLALWEAKMKQLAERARARQEEAARLGLGQQEAKLYGKKRKWGGTVVAEPQQKEKKGVVPTRQALAVPTDSAVTVSSYAYTKVTGPYSRWI |
| 5968 | sp|Q9H5J8|TAF1D\_HUMAN | MDKSGIDSLDHVTSDAVELANRSDNSSDSSLFKTQCIPYSPKGEKRNPIRKFVRTPESVHASDSSSDSSFEPIPLTIKAIFERFKNRKKRYKKKKKRRYQPTGRPRGRPEGRRNPIYSLIDKKKQFRSRGSGFPFLESENEKNAPWRKILTFEQAVARGFFNYIEKLKYEHHLKESLKQMNVGEDLENEDFDSRRYKFLDDDGSISPIEESTAEDEDATHLEDNECDIKLAGDSFIVSSEFPVRLSVYLEEEDITEEAALSKKRATKAKNTGQRGLKM |
| 5969 | sp|Q16594|TAF9\_HUMAN | MESGKTASPKSMPKDAQMMAQILKDMGITEYEPRVINQMLEFAFRYVTTILDDAKIYSSHAKKATVDADDVRLAIQCRADQSFTSPPPRDFLLDIARQRNQTPLPLIKPYSGPRLPPDRYCLTAPNYRLKSLQKKASTSAGRITVPRLSVGSVTSRPSTPTLGTPTPQTMSVSTKVGTPMSLTGQRFTVQMPTSQSPAVKASIPATSAVQNVLINPSLIGSKNILITTNMMSSQNTANESSNALKRKREDDDDDDDDDDDYDNL |
| 5970 | sp|O75528|TADA3\_HUMAN | MSELKDCPLQFHDFKSVDHLKVCPRYTAVLARSEDDGIGIEELDTLQLELETLLSSASRRLRVLEAETQILTDWQDKKGDRRFLKLGRDHELGAPPKHGKPKKQKLEGKAGHGPGPGPGRPKSKNLQPKIQEYEFTDDPIDVPRIPKNDAPNRFWASVEPYCADITSEEVRTLEELLKPPEDEAEHYKIPPLGKHYSQRWAQEDLLEEQKDGARAAAVADKKKGLMGPLTELDTKDVDALLKKSEAQHEQPEDGCPFGALTQRLLQALVEENIISPMEDSPIPDMSGKESGADGASTSPRNQNKPFSVPHTKSLESRIKEELIAQGLLESEDRPAEDSEDEVLAELRKRQAELKALSAHNRTKKHDLLRLAKEEVSRQELRQRVRMADNEVMDAFRKIMAARQKKRTPTKKEKDQAWKTLKERESILKLLDG |
| 5971 | sp|Q03761|TAF12\_YEAST | MSSNPENSGVNANNNTGTGNADAITGAQQNMVLQPRQLQEMAAKFRTLLTEARNVGETTPRGKELMFQAAKIKQVYDALTLNRRRQQAAQAYNNTSNSNSSNPASIPTENVPNSSQQQQQQQQQTRNNSNKFSNMIKQVLTPEENQEYEKLWQNFQVRHTSIKEKETYLKQNIDRLEQEINKQTDEGPKQQLQEKKIELLNDWKVLKIEYTKLFNNYQNSKKTFYVECARHNPALHKFLQESTQQQRVQQQRVQQQQQQQQQQQQQQQQQQQQQQQRQGQNQRKISSSNSTEIPSVTGPDALKSQQQQQNTITATNNPRGNVNTSQTEQSKAKVTNVNATASMLNNISSSKSAIFKQTEPAIPISENISTKTPAPVAYRSNRPTITGGSAMNASALNTPATTKLPPYEMDTQRVMSKRKLRELVKTVGIDEGDGETVIDGDVEELLLDLADDFVTNVTAFSCRLAKHRKSDNLEARDIQLHLERNWNIRIPGYSADEIRSTRKWNPSQNYNQKLQSITSDKVAAAKNNGNNVASLNTKK |
| 5972 | sp|P20226|TBP\_HUMAN | MDQNNSLPPYAQGLASPQGAMTPGIPIFSPMMPYGTGLTPQPIQNTNSLSILEEQQRQQQQQQQQQQQQQQQQQQQQQQQQQQQQQQQQQQQQQQAVAAAAVQQSTSQQATQGTSGQAPQLFHSQTLTTAPLPGTTPLYPSPMTPMTPITPATPASESSGIVPQLQNIVSTVNLGCKLDLKTIALRARNAEYNPKRFAAVIMRIREPRTTALIFSSGKMVCTGAKSEEQSRLAARKYARVVQKLGFPAKFLDFKIQNMVGSCDVKFPIRLEGLVLTHQQFSSYEPELFPGLIYRMIKPRIVLLIFVSGKVVLTGAKVRAEIYEAFENIYPILKGFRKTT |
| 5973 | sp|Q00456|TMOA\_PSEME | MAMHPRKDWYELTRATNWTPSYVTEEQLFPERMSGHMGIPLEKWESYDEPYKTSYPEYVSIQREKDAGAYSVKAALERAKIYENSDPGWISTLKSHYGAIAVGEYAAVTGEGRMARFSKAPGNRNMATFGMMDELRHGQLQLFFPHEYCKKDRQFDWAWRAYHSNEWAAIAAKHFFDDIITGRDAISVAIMLTFSFETGFTNMQFLGLAADAAEAGDYTFANLISSIQTDESRHAQQGGPALQLLIENGKREEAQKKVDMAIWRAWRLFAVLTGPVMDYYTPLEDRSQSFKEFMYEWIIGQFERSLIDLGLDKPWYWDLFLKDIDELHHSYHMGVWYWRTTAWWNPAAGVTPEERDWLEEKYPGWNKRWGRCWDVITENVLNDRMDLVSPETLPSVCNMSQIPLVGVPGDDWNIEVFSLEHNGRLYHFGSEVDRWVFQQDPVQYQNHMNIVDRFLAGQIQPMTLEGALKYMGFQSIEEMGKDAHDFAWADKCKPAMKKSA |
| 5974 | sp|Q9ES03|TBX20\_MOUSE | MEFTASPKPQLSSRANAFSIAALMSSGGPKEKEAAENTIKPLEQFVEKSSCAQPLGELTSLDAHAEFGGGGGSPSSSSLCTEPLIPTTPIIPSEEMAKIACSLETKELWDKFHELGTEMIITKSGRRMFPTIRVSFSGVDPESKYIVLMDIVPVDNKRYRYAYHRSSWLVAGKADPPLPARLYVHPDSPFTGEQLLKQMVSFEKVKLTNNELDQHGHIILNSMHKYQPRVHIIKKKDHTASLLNLKSEEFRTFIFPETVFTAVTAYQNQLITKLKIDSNPFAKGFRDSSRLTDIERESVESLIQKHSYARSPIRTYGEEDVLGEESQTTQSRGSAFTTSDNLSLSSWVSSSSSFPGFQHPQPLTALGTSTASIATPIPHPIQGSLPPYSRLGMPLTPSAIASSMQGSGPTFPSFHMPRYHHYFQQGPYAAIQGLRHSSAVMTPFV |
| 5975 | sp|Q60769|TNAP3\_MOUSE | MAEQLLPQALYLSNMRKAVKIRERTPEDIFKPTNGIIYHFKTMHRYTLEMFRTCQFCPQFREIIHKALIDRSVQASLESQKKLNWCREVRKLVALKTNGDGNCLMHAACQYMWGVQDTDLVLRKALCSTLKETDTRNFKFRWQLESLKSQEFVETGLCYDTRNWNDEWDNLVKMASADTPAARSGLQYNSLEEIHIFVLSNILRRPIIVISDKMLRSLESGSNFAPLKVGGIYLPLHWPAQECYRYPIVLGYDSQHFVPLVTLKDSGPELRAVPLVNRDRGRFEDLKVHFLTDPENEMKEKLLKEYLIVMEIPVQGWDHGTTHLINAAKLDEANLPKEINLVDDYFELVQHEYKKWQENSDQARRAAHAQNPLEPSTPQLSLMDIKCETPNCPFFMSVNTQPLCHECSERRQKNQSKLPKLNSKLGPEGLPGVGLGSSNWSPEETAGGPHSAPPTAPSLFLFSETTAMKCRSPGCPFTLNVQHNGFCERCHARQINASHTADPGKCQACLQDVTRTFNGICSTCFKRTTAEPSSSLTSSIPASCHQRSKSDPSQLIQSLTPHSCHRTGNVSPSGCLSQAARTPGDRAGTSKCRKAGCMYFGTPENKGFCTLCFIEYRENKQSVTASEKAGSPAPRFQNNVPCLGRECGTLGSTMFEGYCQKCFIEAQNQRFHEARRTEEQLRSSQHRDMPRTTQVASRLKCARASCKNILACRSEELCMECQHLSQRVGSVAHRGEPTPEEPPKQRCRAPACDHFGNAKCNGYCNECYQFKQMYG |
| 5976 | sp|P06882|THYG\_RAT | MMTLVLWVSTLLSSVCLVAANIFEYQVDAQPLRPCELQREKAFLKQDEYVPQCSEDGSFQTVQCQNDGQSCWCVDSDGTEVPGSRQLGRPTACLSFCQLHKQRILLSSYINSTDALYLPQCQDSGNYAPVQCDLQQVQCWCVDTEGMEVYGTRQQGRPTRCPRSCEIRSRRLLHGVGDKSPPQCDADGEFMPVQCKFVNTTDMMIFDLIHNYNRFPDAFVTFSAFRNRFPEVSGYCYCADSQGRELAETGLELLLDEIYDTIFAGLDQASTFTQSTMYRILQRRFLAIQLVISGRFRCPTKCEVEQFTATSFGHPYIPSCHRDGHYQTVQCQMERMCWCVDAQGIEIPGTRQQGQPLFCAKDQSCASERQQALSRLYFETPGYFSPQDLLSSEDRLVPVSGARLDISCPPRIKELFVDSGLLRSIAVERYQQLSESRSLLREAIRAIFPSRELAGLALQFTTNPKRLQQNLFGGTFLVNAAQLNLSGALGTRSTFNFSQFFQQFGLPGFLVRDRATDLAKLLPVSLDSSPTPVPLRVPEKRVAMNKSVVGTFGFKVNLQENQDALKFLVSLMELPEFLVFLQRAVSVPEDRARDLGDVMEMVFSAQACKQTSGRFFVPSCTAEGSYEDIQCYAGECWCVNSQGKEVEGSRVSGGHPRCPTKCEKQRAQMQNLAGAQPAGSSFFVPTCTSEGYFLPVQCFNSECYCVDAEGQVIPGTQSTIGEPKLCPSVCQLQAEQAFLGVVGVLLSNSSMVPPISSVYIPQCSTSGQWMPVQCDGPHEQVFEWYERWNTQNSDGQELTTATLLMKLMSYREVASTNFSLFLQSLYDAGQQSIFPVLAQYPSLQDVPQVVLEGATIQPGENIFLDPYIFWQILNGQLSQYPGPYSDFSMPLEHFNLRSCWCVDEAGQELDGTRTRAGEIPACPGPCEEVKFRVLKFIKETEEIVSASNASSFPLGESFLVAKGIQLTSEELGLPPLYPSREAFSEKFLRGSEYAIRLAAQSTLTFYQKLRASLGESNGTASLLWSGPYMPQCNTIGGWEPVQCHPGTGQCWCVDGWGELIPGSLMARSSQMPQCPTSCELSRANGLISAWKQAGHQRNPGPGDLFTPVCLQTGEYVRQQTSGTGAWCVDPSSGEGVPTNTNSSAQCPGLCDALKSRVLSRKVGLGYTPVCEALDGGFSPVQCDLAQGSCWCVLASGEEVPGTRVVGTQPACESPQCPLPFSGSDVTDGVVFCETASSSGVTTVQQCQLFCRQGLRNVFSPGPLICNLESQRWVTLPLPRACQRPQLWQTMQTQAHFQLLLPPGKMCSIDYSGLLQAFQVFILDELITRGFCQIQVKTFGTLVSRTVCDNSSIQVGCLTAERLGVNATWKLQLEDISVGSLPNLHSIERALMGQDLLGRFANLIQSGKFQLHLDSKTFSADTILYFLNGDRFVTSPMTQLGCLEGFYRVSTTSQDPLGCVKCPEGSFSQDGKCTPCPAGTYQGQAGSSACIPCPRGRTTTITGAFSKTHCVTDCQRDEAGLQCDQNGQYQANQKDMDSGEVFCVDSEGQRLQWLQTEAGLSESQCLMMRKFEKAPESKVIFDASSPVIVKSRVPSANSPLVQCLADCADDEACSFVTVSSMSSEVSCDLYSWTRDNFACVTSDQEEDAVDSLKETSFGSLRCQVKVRNSGKDSLAVYVKKGHEFTASGQKSFEPTGFQNVLSGLYSSVVFSALGTNLTDTHLFCLLACDQDSCCDGFIVTQVKEGPTICGLLSAPDILVCHINDWRDASDTQANGTCAGVTYDQGSRQMTMSLGGQEFLQGLTLLEGTQDSFISFQQVYLWKDSDIGSRPESMGCGRGMVPKSEAPEGADMATELFSPVDITQVIVNTSHSLPSQQYWLSTHLFSAEQANLWCLSRCAQEPVFCQLADIMESSSLYFTCSLYPEAQVCDNDVESNAKNCSQILPRQPTALFQRKVVLNDRVKNFYTRLPFQKLSGISIRDRIPMSEKLISNGFFECERLCDRDPCCTGFGFLNVSQMQGGEMTCLTLNSMGIQTCSEENGATWRILDCGSEDTEVHTYPFGWYQKPAVWSDAPSFCPSAALQSLTEEKVALDSWQTLALSSVIIDPSIKHFDVAHISISATRNFSLAQDFCLQECSRHQDCLVTTLQIQQGVVRCVFYPDIQSCEHSLRSKTCWLLLHEEAAYIYRKSGAPLHQSDGISTPSVHIDSFGQLQGGSQVVKVGTAWKQVYQFLGVPYAAPPLAENRFQAPEVLNWTGSWDATKLRSSCWQPGTRTPTPPQISEDCLYLNVFVPENLVSNASVLVFFHNTVEMEGSGGQLNIDGSILAAVGNLIVVTANYRLGVFGFLSSGSDEVAGNWGLLDQVAALTWVQTHIGAFGGDPQRVTLAADRGGADVASIHLLITRPTRLQLFRKALLMGGSALSPAAIISPDRAQQQAAALAKEVGCPNSSVQEVVSCFRQKPANILNEAQTKLLAVSGPFHYWGPVVDGQYLRELPSRRLKRPLPVKVDLLIGGSQDDGLINRAKAVKQFEESQGRTNSKTAFYQALQNSLGGEDSDARILAAAIWYYSLEHSTDDYASFSRALENATRDYFIICPIVNMASLWARRTRGNVFMYHVPESYGHGSLELLADVQYAFGLPFYSAYQGYFSTEEQSLSLKVMQYFSNFIRSGNPNYPHEFSQKAAEFATPWPDFVPGAGGESYKELSAQLPNRQGLKKADCSFWSKYIQTLKDADGAKDAQLTKSGEEDLEVGPGSEEDFSGSLEPVPKSYSK |
| 5977 | sp|P04216|THY1\_HUMAN | MNLAISIALLLTVLQVSRGQKVTSLTACLVDQSLRLDCRHENTSSSPIQYEFSLTRETKKHVLFGTVGVPEHTYRSRTNFTSKYNMKVLYLSAFTSKDEGTYTCALHHSGHSPPISSQNVTVLRDKLVKCEGISLLAQNTSWLLLLLLSLSLLQATDFMSL |
| 5978 | sp|P9WG59|THRC\_MYCTU | MTVPPTATHQPWPGVIAAYRDRLPVGDDWTPVTLLEGGTPLIAATNLSKQTGCTIHLKVEGLNPTGSFKDRGMTMAVTDALAHGQRAVLCASTGNTSASAAAYAARAGITCAVLIPQGKIAMGKLAQAVMHGAKIIQIDGNFDDCLELARKMAADFPTISLVNSVNPVRIEGQKTAAFEIVDVLGTAPDVHALPVGNAGNITAYWKGYTEYHQLGLIDKLPRMLGTQAAGAAPLVLGEPVSHPETIATAIRIGSPASWTSAVEAQQQSKGRFLAASDEEILAAYHLVARVEGVFVEPASAASIAGLLKAIDDGWVARGSTVVCTVTGNGLKDPDTALKDMPSVSPVPVDPVAVVEKLGLA |
| 5979 | sp|P53552|THO2\_YEAST | MAEQTLLSKLNALSQKVIPPASPSQASILTEEVIRNWPERSKTLCSDFTALESNDEKEDWLRTLFIELFDFINKNDENSPLKLSDVASFTNELVNHERQVSQASIVGKMFIAVSSTVPNINDLTTISLCKLIPSLHEELFKFSWISSKLLNKEQTTLLRHLLKKSKYELKKYNLLVENSVGYGQLVALLILAYYDPDNFSKVSAYLKEIYHIMGKYSLDSIRTLDVILNVSSQFITEGYKFFIALLRKSDSWPSSHVANNSNYSSLNEGGNMIAANIISFNLSQYNEEVDKENYERYMDMCCILLKNGFVNFYSIWDNVKPEMEFLQEYIQNLETELEEESTKGVENPLAMAAALSTENETDEDNALVVNDDVNMKDKISEETNADIESKGKQKTQQDILLFGKIKLLERLLIHGCVIPVIHVLKQYPKVLYVSESLSRYLGRVFEYLLNPLYTSMTSSGESKDMATALMITRIDNGILAHKPRLIHKYKTHEPFESLELNSSYVFYYSEWNSNLTPFASVNDLFENSHIYLSIIGPYLGRIPTLLSKISRIGVADIQKNHGSESLHVTIDKWIDYVRKFIFPATSLLQNNPIATSEVYELMKFFPFEKRYFIYNEMMTKLSQDILPLKVSFNKAEREAKSILKALSIDTIAKESRRFAKLISTNPLASLVPAVKQIENYDKVSELVVYTTKYFNDFAYDVLQFVLLLRLTYNRPAVQFDGVNQAMWVQRLSIFIAGLAKNCPNMDISNIITYILKTLHNGNIIAVSILKELIITVGGIRDLNEVNMKQLLMLNSGSPLKQYARHLIYDFRDDNSVISSRLTSFFTDQSAISEIILLLYTLNLKANTQNSHYKILSTRCDEMNTLLWSFIELIKHCLKGKAFEENVLPFVELNNRFHLSTPWTFHIWRDYLDNQLNSNENFSIDELIEGAEFSDVDLTKISKDLFTTFWRLSLYDIHFDKSLYDERKNALSGENTGHMSNRKKHLIQNQIKDILVTGISHQRAFKKTSEFISEKSNVWNKDCGEDQIKIFLQNCVVPRVLFSPSDALFSSFFIFMAFRTENLMSILNTCITSNILKTLLFCCTSSEAGNLGLFFTDVLKKLEKMRLNGDFNDQASRKLYEWHSVITEQVIDLLSEKNYMSIRNGIEFMKHVTSVFPVVKAHIQLVYTTLEENLINEEREDIKLPSSALIGHLKARLKDALELDEFCTLTEEEAEQKRIREMELEEIKNYETACQNEQKQVALRKQLELNKSQRLQNDPPKSVASGSAGLNSKDRYTYSRNEPVIPTKPSSSQWSYSKVTRHVDDINHYLATNHLQKAISLVENDDETRNLRKLSKQNMPIFDFRNSTLEIFERYFRTLIQNPQNPDFAEKIDSLKRYIKNISREPYPDTTSSYSEAAAPEYTKRSSRYSGNAGGKDGYGSSNYRGPSNDRSAPKNIKPISSYAHKRSELPTRPSKSKTYNDRSRALRPTGPDRGDGFDQRDNRLREEYKKNSSQRSQLRFPEKPFQEGKDSSKANPYQASSYKRDSPSENEEKPNKRFKKDETIRNKFQTQDYRNTRDSGAAHRANENQRYNGNRKSNTQALPQGPKGGNYVSRYQR |
| 5980 | sp|P07464|THGA\_ECOLI | MNMPMTERIRAGKLFTDMCEGLPEKRLRGKTLMYEFNHSHPSEVEKRESLIKEMFATVGENAWVEPPVYFSYGSNIHIGRNFYANFNLTIVDDYTVTIGDNVLIAPNVTLSVTGHPVHHELRKNGEMYSFPITIGNNVWIGSHVVINPGVTIGDNSVIGAGSIVTKDIPPNVVAAGVPCRVIREINDRDKHYYFKDYKVESSV |
| 5981 | sp|P41047|TNFL6\_MOUSE | MQQPMNYPCPQIFWVDSSATSSWAPPGSVFPCPSCGPRGPDQRRPPPPPPPVSPLPPPSQPLPLPPLTPLKKKDHNTNLWLPVVFFMVLVALVGMGLGMYQLFHLQKELAELREFTNQSLKVSSFEKQIANPSTPSEKKEPRSVAHLTGNPHSRSIPLEWEDTYGTALISGVKYKKGGLVINETGLYFVYSKVYFRGQSCNNQPLNHKVYMRNSKYPEDLVLMEEKRLNYCTTGQIWAHSSYLGAVFNLTSADHLYVNISQLSLINFEESKTFFGLYKL |
| 5982 | sp|Q9Z2P3|TNFL4\_RAT | MEGEGVQPPDENLENGSRPRFKWKKVLRLVVSGIKAAGLLLCVVYVCLQFSSSPAKDSPIQRLRAPVTGCEGGRLFIGTSKNEYETMEVQNNSVIINCDGLYLIHLKGSFFQEVKINLHFRKDRSPIFVPMLNNGQRVVFTVVTSLAFKDEVYLTVNASDTLCEHLQINDGELIIVQLTPNGYCAPERPYSSTVNQVPL |
| 5983 | sp|P19351|TNNT\_DROME | MSDDEEYTSSEEEEVVEETREETKPPQTPAEGEGDPEFIKRQDQKRSDLDDQLKEYITEWRKQRSKEEDELKKLKEKQAKRKVTRAEEEQKMAQRKKEEEERRVREAEEKKQREIEEKRMRLEEAEKKRQAMLQAMKDKDKKGPNFTIAKKDAGVLGLSSAAMERNKTKEQLEEEKKISLSFRIKPLAIEGFGEAKLREKAQELWELIVKLETEKYDLEERQKRQDYDLKELKERQKQQLRHKALKKGLDPEALTGKYPPKIQVASKYERRVDTRSYDDKKKLFEGGWDEISKDSNEKIWNEKKEQYTGRQKSKLPKWFGERPGKKAGEPETPEGEEDAKADEDIVEDDEEVEEEVVEEEDEEAEEDEEEEEEEEEEEEEEEEEEEEEEEEEEEEEE |
| 5984 | sp|Q9P940|TPIS\_CANAL | MARQFFVGGNFKANGTKQQITSIIDNLNKADLPKDVEVVICPPALYLGLAVEQNKQPTVAIGAQNVFDKSCGAFTGETCASQILDVGASWTLTGHSERRTIIKESDEFIAEKTKFALDTGVKVILCIGETLEERKGGVTLDVCARQLDAVSKIVSDWSNIVVAYEPVWAIGTGLAATPEDAEETHKGIRAHLAKSIGAEQAEKTRILYGGSVNGKNAKDFKDKANVDGFLVGGASLKPEFVDIIKSRL |
| 5985 | sp|Q86YW5|TRML1\_HUMAN | MGLTLLLLLLLGLEGQGIVGSLPEVLQAPVGSSILVQCHYRLQDVKAQKVWCRFLPEGCQPLVSSAVDRRAPAGRRTFLTDLGGGLLQVEMVTLQEEDAGEYGCMVDGARGPQILHRVSLNILPPEEEEETHKIGSLAENAFSDPAGSANPLEPSQDEKSIPLIWGAVLLVGLLVAAVVLFAVMAKRKQGNRLGVCGRFLSSRVSGMNPSSVVHHVSDSGPAAELPLDVPHIRLDSPPSFDNTTYTSLPLDSPSGKPSLPAPSSLPPLPPKVLVCSKPVTYATVIFPGGNKGGGTSCGPAQNPPNNQTPSS |
| 5986 | sp|Q5SM16|TRMH\_THET8 | MRERTEARRRRIEEVLRRRQPDLTVLLENVHKPHNLSAILRTCDAVGVLEAHAVNPTGGVPTFNETSGGSHKWVYLRVHPDLHEAFRFLKERGFTVYATALREDARDFREVDYTKPTAVLFGAEKWGVSEEALALADGAIKIPMLGMVQSLNVSVAAAVILFEAQRQRLKAGLYDRPRLDPELYQKVLADWLRK |
| 5987 | sp|P17751|TPIS\_MOUSE | MEGKAEQQGAGLTMAEGGEKEEFCFTAIYISGQWREPCVCTDLQRLEPGTMAPTRKFFVGGNWKMNGRKKCLGELICTLNAANVPAGTEVVCAPPTAYIDFARQKLDPKIAVAAQNCYKVTNGAFTGEISPGMIKDLGATWVVLGHSERRHVFGESDELIGQKVSHALAEGLGVIACIGEKLDEREAGITEKVVFEQTKVIADNVKDWSKVVLAYEPVWAIGTGKTATPQQAQEVHEKLRGWLKSNVNDGVAQSTRIIYGGSVTGATCKELASQPDVDGFLVGGASLKPEFVDIINAKQ |
| 5988 | sp|Q38710|TPSDV\_ABIGR | MAMPSSSLSSQIPTAAHHLTANAQSIPHFSTTLNAGSSASKRRSLYLRWGKGSNKIIACVGEGGATSVPYQSAEKNDSLSSSTLVKREFPPGFWKDDLIDSLTSSHKVAASDEKRIETLISEIKNMFRCMGYGETNPSAYDTAWVARIPAVDGSDNPHFPETVEWILQNQLKDGSWGEGFYFLAYDRILATLACIITLTLWRTGETQVQKGIEFFRTQAGKMEDEADSHRPSGFEIVFPAMLKEAKILGLDLPYDLPFLKQIIEKREAKLKRIPTDVLYALPTTLLYSLEGLQEIVDWQKIMKLQSKDGSFLSSPASTAAVFMRTGNKKCLDFLNFVLKKFGNHVPCHYPLDLFERLWAVDTVERLGIDRHFKEEIKEALDYVYSHWDERGIGWARENPVPDIDDTAMGLRILRLHGYNVSSDVLKTFRDENGEFFCFLGQTQRGVTDMLNVNRCSHVSFPGETIMEEAKLCTERYLRNALENVDAFDKWAFKKNIRGEVEYALKYPWHKSMPRLEARSYIENYGPDDVWLGKTVYMMPYISNEKYLELAKLDFNKVQSIHQTELQDLRRWWKSSGFTDLNFTRERVTEIYFSPASFIFEPEFSKCREVYTKTSNFTVILDDLYDAHGSLDDLKLFTESVKRWDLSLVDQMPQQMKICFVGFYNTFNDIAKEGRERQGRDVLGYIQNVWKVQLEAYTKEAEWSEAKYVPSFNEYIENASVSIALGTVVLISALFTGEVLTDEVLSKIDRESRFLQLMGLTGRLVNDTKTYQAERGQGEVASAIQCYMKDHPKISEEEALQHVYSVMENALEELNREFVNNKIPDIYKRLVFETARIMQLFYMQGDGLTLSHDMEIKEHVKNCLFQPVA |
| 5989 | sp|Q3EDG5|TPST\_ARATH | MQMNSVWKLSLGLLLLSSVIGSFAELDFGHCETLVKKWADSSSSREEHVNKDKRSLKDLLFFLHVPRTGGRTYFHCFLRKLYDSSEECPRSYDKLHFNPRKEKCKLLATHDDYSLMAKLPRERTSVMTIVRDPIARVLSTYEFSVEVAARFLVHPNLTSASRMSSRIRKSNVISTLDIWPWKYLVPWMREDLFARRDARKLKEVVIIEDDNPYDMEEMLMPLHKYLDAPTAHDIIHNGATFQIAGLTNNSHLSEAHEVRHCVQKFKSLGESVLQVAKRRLDSMLYVGLTEEHRESASLFANVVGSQVLSQVVPSNATAKIKALKSEASVTISETGSDKSNIQNGTSEVTLNKAEAKSGNMTVKTLMEVYEGCITHLRKSQGTRRVNSLKRITPANFTRGTRTRVPKEVIQQIKSLNNLDVELYKYAKVIFAKEHELVSNKLISSSKRSIVDLPSELKSVLGEMGEEKLWKFVPVALMLLLIVLFFLFVNAKRRRTSKVKI |
| 5990 | sp|P02789|TRFE\_CHICK | MKLILCTVLSLGIAAVCFAAPPKSVIRWCTISSPEEKKCNNLRDLTQQERISLTCVQKATYLDCIKAIANNEADAISLDGGQAFEAGLAPYKLKPIAAEVYEHTEGSTTSYYAVAVVKKGTEFTVNDLQGKTSCHTGLGRSAGWNIPIGTLLHRGAIEWEGIESGSVEQAVAKFFSASCVPGATIEQKLCRQCKGDPKTKCARNAPYSGYSGAFHCLKDGKGDVAFVKHTTVNENAPDQKDEYELLCLDGSRQPVDNYKTCNWARVAAHAVVARDDNKVEDIWSFLSKAQSDFGVDTKSDFHLFGPPGKKDPVLKDLLFKDSAIMLKRVPSLMDSQLYLGFEYYSAIQSMRKDQLTPSPRENRIQWCAVGKDEKSKCDRWSVVSNGDVECTVVDETKDCIIKIMKGEADAVALDGGLVYTAGVCGLVPVMAERYDDESQCSKTDERPASYFAVAVARKDSNVNWNNLKGKKSCHTAVGRTAGWVIPMGLIHNRTGTCNFDEYFSEGCAPGSPPNSRLCQLCQGSGGIPPEKCVASSHEKYFGYTGALRCLVEKGDVAFIQHSTVEENTGGKNKADWAKNLQMDDFELLCTDGRRANVMDYRECNLAEVPTHAVVVRPEKANKIRDLLERQEKRFGVNGSEKSKFMMFESQNKDLLFKDLTKCLFKVREGTTYKEFLGDKFYTVISSLKTCNPSDILQMCSFLEGK |
| 5991 | sp|A4FVP2|TPS03\_ARATH | MPKRQAQRRFTRKTDSKTPSQPLVSRRSANYQPSLWQHEYLLSLGNTYVKEDNVERVTLLKQEVSKMLNETEGLLEQLELIDTLQRLGVSYHFEQEIKKTLTNVHVKNVRAHKNRIDRNRWGDLYATALEFRLLRQHGFSIAQDVFDGNIGVDLDDKDIKGILSLYEASYLSTRIDTKLKESIYYTTKRLRKFVEVNKNETKSYTLRRMVIHALEMPYHRRVGRLEARWYIEVYGERHDMNPILLELAKLDFNFVQAIHQDELKSLSSWWSKTGLTKHLDFVRDRITEGYFSSVGVMYEPEFAYHRQMLTKVFMLITTIDDIYDIYGTLEELQLFTTIVEKWDVNRLEELPNYMKLCFLCLVNEINQIGYFVLRDKGFNVIPYLKESWADMCTTFLKEAKWYKSGYKPNFEEYMQNGWISSSVPTILLHLFCLLSDQTLDILGSYNHSVVRSSATILRLANDLATSSEELARGDTMKSVQCHMHETGASEAESRAYIQGIIGVAWDDLNMEKKSCRLHQGFLEAAANLGRVAQCVYQYGDGHGCPDKAKTVNHVRSLLVHPLPLN |
| 5992 | sp|P40126|TYRP2\_HUMAN | MSPLWWGFLLSCLGCKILPGAQGQFPRVCMTVDSLVNKECCPRLGAESANVCGSQQGRGQCTEVRADTRPWSGPYILRNQDDRELWPRKFFHRTCKCTGNFAGYNCGDCKFGWTGPNCERKKPPVIRQNIHSLSPQEREQFLGALDLAKKRVHPDYVITTQHWLGLLGPNGTQPQFANCSVYDFFVWLHYYSVRDTLLGPGRPYRAIDFSHQGPAFVTWHRYHLLCLERDLQRLIGNESFALPYWNFATGRNECDVCTDQLFGAARPDDPTLISRNSRFSSWETVCDSLDDYNHLVTLCNGTYEGLLRRNQMGRNSMKLPTLKDIRDCLSLQKFDNPPFFQNSTFSFRNALEGFDKADGTLDSQVMSLHNLVHSFLNGTNALPHSAANDPIFVVLHSFTDAIFDEWMKRFNPPADAWPQELAPIGHNRMYNMVPFFPPVTNEELFLTSDQLGYSYAIDLPVSVEETPGWPTTLLVVMGTLVALVGLFVLLAFLQYRRLRKGYTPLMETHLSSKRYTEEA |
| 5993 | sp|Q04750|TOP1\_MOUSE | MSGDHLHNDSQIEADFRLNDSHKHKDKHKDREHRHKEHKKDKDKDREKSKHSNSEHKDSEKKHKEKEKTKHKDGSSEKHKDKHKDRDKERRKEEKIRAAGDAKIKKEKENGFSSPPRIKDEPEDDGYFAPPKEDIKPLKRLRDEDDADYKPKKIKTEDIKKEKKRKSEEEEDGKLKKPKNKDKDKKVAEPDNKKKKPKKEEEQKWKWWEEERYPEGIKWKFLEHKGPVFAPPYEPLPESVKFYYDGKVMKLSPKAEEVATFFAKMLDHEYTTKEIFRKNFFKDWRKEMTNDEKNTITNLSKCDFTQMSQYFKAQSEARKQMSKEEKLKIKEENEKLLKEYGFCVMDNHRERIANFKIEPPGLFRGRGNHPKMGMLKRRIMPEDIIINCSKDAKVPSPPPGHKWKEVRHDNKVTWLVSWTENIQGSIKYIMLNPSSRIKGEKDWQKYETARRLKKCVDKIRNQYREDWKSKEMKVRQRAVALYFIDKLALRAGNEKEEGETADTVGCCSLRVEHINLHPELDGQEYVVEFDFPGKDSIRYYNKVPVEKRVFKNLQLFMENKQPEDDLFDRLNTGILNKHLQDLMEGLTAKVFRTYNASITLQQQLKELTAPDENVPAKILSYNRANRAVAILCNHQRAPPKTFEKSMMNLQSKIDAKKDQLADARRDLKSAKADAKVMKDAKTKKVVESKKKAVQRLEEQLMKLEVQATDREENKQIALGTSKLNYLDPRITVAWCKKWGVPIEKIYNKTQREKFAWAIDMTDEDYEF |
| 5994 | sp|P50586|TUB\_MOUSE | MTSKPHSDWIPYSVLDDEGSNLRQQKLDRQRALLEQKQKKKRQEPLMVQANADGRPRSRRARQSEEQAPLVESYLSSSGSTSYQVQEADSIASVQLGATRPPAPASAKKSKGAAASGGQGGAPRKEKKGKHKGTSGPATLAEDKSEAQGPVQILTVGQSDHDKDAGETAAGGGAQPSGQDLRATMQRKGISSSMSFDEDEDEDENSSSSSQLNSNTRPSSATSRKSIREAASAPSPAAPEPPVDIEVQDLEEFALRPAPQGITIKCRITRDKKGMDRGMYPTYFLHLDREDGKKVFLLAGRKRKKSKTSNYLISVDPTDLSRGGDSYIGKLRSNLMGTKFTVYDNGVNPQKASSSTLESGTLRQELAAVCYETNVLGFKGPRKMSVIVPGMNMVHERVCIRPRNEHETLLARWQNKNTESIIELQNKTPVWNDDTQSYVLNFHGRVTQASVKNFQIIHGNDPDYIVMQFGRVAEDVFTMDYNYPLCALQAFAIALSSFDSKLACE |
| 5995 | sp|P0A884|TYSY\_ECOLI | MKQYLELMQKVLDEGTQKNDRTGTGTLSIFGHQMRFNLQDGFPLVTTKRCHLRSIIHELLWFLQGDTNIAYLHENNVTIWDEWADENGDLGPVYGKQWRAWPTPDGRHIDQITTVLNQLKNDPDSRRIIVSAWNVGELDKMALAPCHAFFQFYVADGKLSCQLYQRSCDVFLGLPFNIASYALLVHMMAQQCDLEVGDFVWTGGDTHLYSNHMDQTHLQLSREPRPLPKLIIKRKPESIFDYRFEDFEIEGYDPHPGIKAPVAI |
| 5996 | sp|Q969E8|TSR2\_HUMAN | MAGAAEDARALFRAGVCAALEAWPALQIAVENGFGGVHSQEKAKWLGGAVEDYFMRNADLELDEVEDFLGELLTNEFDTVVEDGSLPQVSQQLQTMFHHFQRGDGAALREMASCITQRKCKVTATALKTARETDEDEDDVDSVEEMEVTATNDGAATDGVCPQPEPSDPDAQTIKEEDIVEDGWTIVRRKK |
| 5997 | sp|P49744|TSP4\_RAT | MTMITPSSKLTLTKGNKSWSSTRCGAFLLLHLVLQPWQRAGAQATPQVFDLLPSSSQRLNPAALQPVLTDPTLHELYVISTFKLQSKSSATIFGLYSSSDNSKYFEFTVMGRLNKAILRYLKDDGKIHLVVFNNLQLADGRRHRILLRLSNLQRGAGSVELYLDCVQVDSVNNLPRAFSGLTQNPQAIELRTFQRKPQDFLEELKLVVRGSLFQVASLQDCFLQQSEPLAATGTGDFNRQFLGQMTQLNQLLGEVKDLLRQQVKETSFLRNTIAECQACGPLSFQSPTPNTLVPIAPPAPPTRPTRRCDSSPCFRGVRCTDTRDGFQCGPCPDGYTGNGITCSDVDECKYHPCYPGVRCTNLAPGFRCDACPVGFTGPMVQGVGINFAKTNKQVCTDVDECRNGACVLNSICINTLGSYRCGPCKPGYTGDQTRGCRTERSCRNPEQNPCSVHAQCIEERQGDVTCVCGVGWAGRAGYVCGKDVDIDSYPDEELPCSARNCKKDNCKYVPNSGQEDADRDGIGDACDEDADGDGILNEQDNCVLTHNVDQRNTDKDIFGDACDNCRGVLNNDQKDTDGDGKGDACDDDMDGDGIKNILDNCPRVPNRDQQDRDGDGVGDACDSCPDVSNPNQSDVDNDLVGDSCDTNQDSDGDGHQDSTDNCPTVINSAQLDTDKDGIGDECDDDDDNDGMPDLFPPGPDNCRLVPNPAQEDSNNDGVGDICEADFDQDKVIDRIDVCPENAEITLTDFRAYQTVVLDPEGDAQIDPNWVVLNQGMEIVQTMNSDPGLAVGYTAFNGVDFEGTFHVNTQTDDDYAGFIFGYQDSSSFYVVMWKQTEQTYWQATPFRAVAEPGIQLKAVKSKTGPGEHLRNSLWHTGDTSDQVRLLWKDSRNVGWKDKVSYRWFLQHRPQVGYIRVRFYEGSELVADSGVTIDTTMRGGRLGVFCFSQENIIWSNLKYRCNDTIPEDFQEFQIQTFDRLDN |
| 5998 | sp|Q9VFM9|TWF\_DROME | MSHQTGIRANEQLAKVFGKAKNGKFRVIKVSIENEQLSCGATAETKKDWERDYDKLIGPLLEKDVPCYILYRLDAKIPLGYSWLLISWTPDTASIRQKMVYASTKATLKTEFGSAYITEELHATTLDECTLEGYRRHKQDFAAPAPLTSREEELKELRKTEVHTEINTNTRHQTLGGINCPLSEATVAAVQDLVRGKHDYLQFRIDLEEEQIHVSRAAKVELADLPKQVPEDHARYHLFLFRHTHEGDYFESYVFVYSMPGYSCSVRERMMYSSCKAPFLDELAALGVEVVKKLEIDSGSELTEAFLQDELHPKKILHRPAFAKPKGPPNRGAKRLTRPTAED |
| 5999 | sp|Q9UUG9|TSC2\_SCHPO | MNNKSLLDLSSEPAIKDTDILSYFDANLPFKKRHQIVRSIYHGLKYYIYSSTSIIQVWQNIQDFISTKNDNAAFRELVYNLMMRYVSTQKHLSIIERHTFFQTIEKDPFQDIAELQLRLKSLSVLTDEGHKISGIENRVGPLLSAWFNQYLQWQSQATELQGKDADSKLVHLLFFKSLFKFSTNLVKFQWFLVPEPQMLQLVNSVVQICNHARLEDVVTEVLMFFDSMIRYSVIPKASLYDTVLILCSTYISTYSYSKLAQSVIFNLISSPVSNLAFENVFNILQYNRSNVNAVRGAVRLMRFLMLQEVKNDAIASITLSSSIEFTEFPLGFNENVDFEILGTVYLFLRTPSILNRLNFLDWHRILNILMYCSQYLPLKASTSKEAFSKTAAFANIYDRVLDFLDFEALIPLLQQFQVKLVFFLKDVLPVLKPKIRKKLLRLFETYNLIFPCNQYWVFNLEFLLGIYQCKTFDLEDRALLFKLVEDACSVADENSAPILCSKFLFPVIESFSKESDDCVVSPVYNMLFFLSVNFQNPGLKDCIDHIFQQLISDTSSVTVRRLATSTLIRLFYYYYDLRDAVPIQETLAKMLEILETPSFPFVSRMLCLQFFLRFRANGTSIYICENIDLNEPFKVLNVDSELIPAVYPISDSFVNSATVEKHIWERKENDLIKISNHSTEYGKDFVTFPTSSLLRFYRKSMATESNWTILMFMITHLADQISNRSMFIGALEEIYNLLDFMCDIVFERVSISAEIPSNIRKANIMIPILQNVQMLFVYHDQFSRAQEDELVSVFFAGLQKWNEACHVSIHSLMLCCYELPVSIRKQLPAILVTLSRLITKPDLSVHILEFLCSLARLPDLIANFTDADYRQIFAIALKYIQHRDFTKESKDSNDTESILKNSYSSYVLALAYSVLQIWFLSLRLTERKKFVPWILRGLKLASEGKPLEDLCLVQYDMMQQFCYSNSDINNQTSTFVDSDVESETWIRGNSLFTINVSVNSGFLEAVIRRPTGTTQYTFRNEASLQKFLWEENLTSSKALTRGLLCTPSSFVSHFLDPHGISLYNQPLLLPSNDDSVRRAISVFDRIPVIESLKAGLVYVGYQQRREADILANTNPSEDFLTFLNGLGTLFELKTDQKVFAGGLDRENDIDGAFAYCWKDKVTQMVFHCTTMMPTNIEHDPGCTLKKRHIGNDFVTIIFNESGLEYDFDTIPSQFNFVNIVITPESESIRRTGRQIKFYKVKALTKYDIDFSLFRRYKIVSSDALPAIVRDVTLNAAVFSHIYHRSAGDYVHIWAERLRQLKRLREKFQASVLPEDYNLDEQTKTKLQNGTNFSDFTSYL |
| 6000 | sp|Q9NRE2|TSH2\_HUMAN | MPRRKQQAPKRAAGYAQEEQLKEEEEIKEEEEEEDSGSVAQLQGGNDTGTDEELETGPEQKGCFSYQNSPGSHLSNQDAENESLLSDASDQVSDIKSVCGRDASDKKAHTHVRLPNEAHNCMDKMTAVYANILSDSYWSGLGLGFKLSNSERRNCDTRNGSNKSDFDWHQDALSKSLQQNLPSRSVSKPSLFSSVQLYRQSSKMCGTVFTGASRFRCRQCSAAYDTLVELTVHMNETGHYQDDNRKKDKLRPTSYSKPRKRAFQDMDKEDAQKVLKCMFCGDSFDSLQDLSVHMIKTKHYQKVPLKEPVPTISSKMVTPAKKRVFDVNRPCSPDSTTGSFADSFSSQKNANLQLSSNNRYGYQNGASYTWQFEACKSQILKCMECGSSHDTLQQLTTHMMVTGHFLKVTSSASKKGKQLVLDPLAVEKMQSLSEAPNSDSLAPKPSSNSASDCTASTTELKKESKKERPEETSKDEKVVKSEDYEDPLQKPLDPTIKYQYLREEDLEDGSKGGGDILKSLENTVTTAINKAQNGAPSWSAYPSIHAAYQLSEGTKPPLPMGSQVLQIRPNLTNKLRPIAPKWKVMPLVSMPTHLAPYTQVKKESEDKDEAVKECGKESPHEEASSFSHSEGDSFRKSETPPEAKKTELGPLKEEEKLMKEGSEKEKPQPLEPTSALSNGCALANHAPALPCINPLSALQSVLNNHLGKATEPLRSPSCSSPSSSTISMFHKSNLNVMDKPVLSPASTRSASVSRRYLFENSDQPIDLTKSKSKKAESSQAQSCMSPPQKHALSDIADMVKVLPKATTPKPASSSRVPPMKLEMDVRRFEDVSSEVSTLHKRKGRQSNWNPQHLLILQAQFASSLFQTSEGKYLLSDLGPQERMQISKFTGLSMTTISHWLANVKYQLRKTGGTKFLKNMDKGHPIFYCSDCASQFRTPSTYISHLESHLGFQMKDMTRLSVDQQSKVEQEISRVSSAQRSPETIAAEEDTDSKFKCKLCCRTFVSKHAVKLHLSKTHSKSPEHHSQFVTDVDEE |
| 6001 | sp|O89049|TRXR1\_RAT | MNDSKDAPKSYDFDLIIIGGGSGGLAAAKEAAKFDKKVMVLDFVTPTPLGTRWGLGGTCVNVGCIPKKLMHQAALLGQALKDSRNYGWKLEDTVKHDWEKMTESVQNHIGSLNWGYRVALREKKVVYENAYGKFIGPHKIMATNNKGKEKVYSAERFLIATGERPRYLGIPGDKEYCISSDDLFSLPYCPGKTLVVGASYVALECAGFLAGIGLDVTVMVRSILLRGFDQDMANKIGEHMEEHGIKFIRQFVPTKIEQIEAGTPGRLKVTAKSTNSEETIEDEFNTVLLAVGRDSCTRTIGLETVGVKINEKTGKIPVTDEEQTNVPYIYAIGDILEGKLELTPVAIQAGRLLAQRLYGGSTVKCDYDNVPTTVFTPLEYGCCGLSEEKAVEKFGEENIEVYHSFFWPLEWTVPSRDNNKCYAKVICNLKDNERVVGFHVLGPNAGEVTQGFAAALKCGLTKQQLDSTIGIHPVCAEIFTTLSVTKRSGGDILQSGCUG |
| 6002 | sp|Q23049|TTC8\_CAEEL | MSGESVIEFTGFIKACRLFRENRLAEAEAVCTNLLRKNPLDQATWALKMQCLSDSTYVDELENEDMGLAETFLDQNVIAPNARPGTSFARPKTSAKGVNPILRPTTNAGRPLSGVVRPQSSFKSGSMDQAVRTARTAKTARAVSSTSARNMRLGTASMAAGADGEFVNLARLNIDKYAADPQVNRQLFEYVFYYLNDIRVAHQIAGTASKAAGFEDYYWKNQLAKCYLRLGMLQDATKQLQSSLEQKKLIETFALLSKAYNRVDQPMAALKTYSAGLEVFPENVTMLTGMARVQEALGEYDESVKLYKRVLDAESNNIEAIACVATTYYYGGKPELAMRYYRRILQMGVSSPELFLNIGLCCMAAQQFDFALSSILRAQSTMTDDVAADVWYNIGQILVDIGDLVSAARSFRIALSHDPDHSESLVNLGILKHREGKIDEARSLYSSATSKNPYMFEGNYNLGLVSFTQGKYHECRELIEKALAAFPEHEHCKKILNHLKPLYESI |
| 6003 | sp|Q6QMG1|TSHR\_ICTPU | MRLFALVLIFFFSTRTCTEDVKSCPNGCECTDWKGYYVSCTDIATLPIFPGNTETLRLYETRLSSVPQDAFVNMVNISLIYLSVDVTLRSLEKHSFFNLKKITHVEIRNTRSLMSIDPEAFKDLPELKYLGLFNTGLTIFPALTRIHSHESNFMLEITDNLYITEIPANAFQGITKDALTVMLYSNGFTKIQHHAFNGTKLDAIYLHRNKELTELSEDMFAETISGPVLLDVSDSGVTSLPATGLESLRELSARNVWALKKLPSVKTFRHLIGADMTYPSHCCAFKNLKKKKGYLDYIICNLTAMRGQHYERSVGRITVPAVMDGTDKGIDISDPLLGNTYDHHDFLRSLHYHEFLGGHADYDMGFGDTLKNPQIATSQDFDSHYDYVVCEDGEAVTCAPAPDDFNPCEDIMGFSFLRVSVWFVSLLAVLGNMVVLFVLLTSHYKLSVSRFLMCHLAIADLCMGIYLLLIASVDLYTQSEYYNHAIDWQTGPWCTLAGFISIFATELSVYTLTTITLERWHAINFAMQLDRKLRLSHASAVMLGGWLLCLLLALMPVLGVSSYQKVSICLPMSTQNLLDQVYILFILVINIVAFVAICACYIKIYCAVHNPNYTSSRKDSSIAKRMAVLIFTNFLCIAPISFYAISAALDHPLITISNSKILLVLFYPLNSCANPFLYAIFTKAFQGDVFILLSKIGLCEQQAKLFRGQTISTRASSGDTNRRGIKTKILTRWNVQATATCHQSSVNKDNNTSRGRKCEPTANKSKHIQGMNSTMVFY |
| 6004 | sp|O14530|TXND9\_HUMAN | MEADASVDMFSKVLEHQLLQTTKLVEEHLDSEIQKLDQMDEDELERLKEKRLQALRKAQQQKQEWLSKGHGEYREIPSERDFFQEVKESENVVCHFYRDSTFRCKILDRHLAILSKKHLETKFLKLNVEKAPFLCERLHIKVIPTLALLKDGKTQDYVVGFTDLGNTDDFTTETLEWRLGSSDILNYSGNLMEPPFQNQKKFGTNFTKLEKKTIRGKKYDSDSDDD |
| 6005 | sp|P61079|UB2D3\_MOUSE | MALKRINKELSDLARDPPAQCSAGPVGDDMFHWQATIMGPNDSPYQGGVFFLTIHFPTDYPFKPPKVAFTTRIYHPNINSNGSICLDILRSQWSPALTISKVLLSICSLLCDPNPDDPLVPEIARIYKTDRDKYNRISREWTQKYAM |
| 6006 | sp|Q9SEU8|TRXM2\_ARATH | MAAFTCTSRPPISLRSETRIVSSSPSASSLSSRRMFAVLPESSGLRIRLSLSPASLTSIHQPRVSRLRRAVVCEAQETTTDIQVVNDSTWDSLVLKATGPVVVDFWAPWCGPCKMIDPLVNDLAQHYTGKIKFYKLNTDESPNTPGQYGVRSIPTIMIFVGGEKKDTIIGAVPKTTLTSSLDKFLP |
| 6007 | sp|O14933|UB2L6\_HUMAN | MMASMRVVKELEDLQKKPPPYLRNLSSDDANVLVWHALLLPDQPPYHLKAFNLRISFPPEYPFKPPMIKFTTKIYHPNVDENGQICLPIISSENWKPCTKTCQVLEALNVLVNRPNIREPLRMDLADLLTQNPELFRKNAEEFTLRFGVDRPS |
| 6008 | sp|O64765|UAP2\_ARATH | MKEPTTEIEIETSAVATILPPPLPPTASPHQALVERLKDYGQEDVFSLWDELSPEERDLLLRDIENLDLPRIDRIIRCSLHSQGLPVAAIEPVPENCVSTVEERTKEDREKWWKMGLKAIYEGKLGVVLLSGGQGTRLGSSDPKGCYNIGLPSGKSLFQIQAERILCVQRLASQAMSEASPTRPVTIQWYIMTSPFTHEPTQKFFKSHKYFGLEPDQVTFFQQGTLPCISKDGKFIMETPFSLSKAPDGNGGVYTALKSSRLLEDMASRGIKYVDCYGVDNVLVRVADPTFLGYFIDKSAASAAKVVRKAYPQEKVGVFVRRGKGGPLTVVEYTELDQSMASATNQQTGRLQYCWSNVCLHMFTLDFLNQVANGLEKDSVYHLAEKKIPSINGDIVGLKLEQFIFDCFPYAPSTALFEVLREEEFAPVKNANGSNYDTPESARLLVLRLHTRWVIAAGGFLTHSVPLYATGVEVSPLCSYAGENLEAICRGRTFHAPCEISL |
| 6009 | sp|Q925H1|TRPS1\_MOUSE | MVRKKHPPLRNVASEGEGQTLEPTATESKVSGKNKELSADQMSENTDQSDVAELNSKEEHSTHGQEPSSSGKKDLQISGLSEKAGFNYESPSKGGSLVSFPHDEVTDRNMLAFSSPAAGGVCEPLKSPQRAEADDPQDMACTPSGDSLETKEEHKMSPKATEETGPVQSGQANCQGLSPVSVASKNPQVPSDGGVRLSKPKGDLLVNDNPDPAPLSPELQDFKCNICGYGYYGNDPTDLIKHFRKYHLGLHNRTRQDAELDSKILALHNMVQFSHSKDFQKVNRSVLSGVLQDISSSRPALLNGTYDVQVTSGGTFIGIGRKTPDCQGNTKYFRCKFCNFTYMGNSSTELEQHFLQTHPNKIKVSLPSSEGVKPSEKNSNKSIPALRASDSGDVGKWQDKMTVKAGDDTPVGYSVPIKPLDSSRQNGTEATSYYWCKFCSFSCESSSSLKLLEHYGKQHGAVQSGGLNPELNDKLPRGSVINQNDLAKSVEGEPLTKPEKGLSGAKKKDFPSKGAEDNMVTSYNCQFCDFRYSKSHGPDVIVVGPLLRHYQQLHNIHKCTIKHCPFCPRGLCSPEKHLGEITYPFACRKSNCSHCALLLLHLSPGVAGSSRVKHQCHQCSFSTPDVDVLLFHYETVHESQASDVKQEANHLLGSDGQQAVRDSKEHSCTKCDFITQVEEEISRHYRRAHSCYKCRQCSFTAADTQSLLEHFNTVHCQEQEITTANGEEGGHAIPTIKEEPKIDLKVYSLLNPDSKMGETVPESIVKREKLDDKEGLKDKIWTESSTDDLRGVAWRGADILRGSPSYTQASLGLLTPVSSSQEQTKTLRDSPNVEAAHLARPMYGLAVDTKGFLQGAPAGSEKSASLTQQYPASGESKTKDESQSLLRRRRGSGVFCANCLTTKTSLWRKNANGGYVCNACGLYQKLHSTPRPLNIIKQNNGEQIIRRRTRKRLNPEALQAEQLNKQQRGSGEEQVNGSPLERRSEDHLSESHPREIPLPSLSKYEAQGSLTKSHSAQQPVLVSQALDIHKRMQPLHIQIKSPQESTGDPGNSSSVSDGKGSSERGSPIEKYMRPAKHPNYSPPGSPIEKYQYPLFGVPFVHNDFQSEADWLRFWSKYKLSVPGNPHYLSHVPGLPNPCQNYVPYPTFNLPPHFSAVGSDNDIPLDLAIKHSRPGPTANGASKEKTKAPPTVKNEDPLNVVKTEKVDRSTQDELSTKCVHCGIVFLDEVMYALHMSCHGDSGPFQCSICQHLCTDKYDFTTHIQRGLHRNNAQAEKNGKPKE |
| 6010 | sp|Q9H1D0|TRPV6\_HUMAN | MGPLQGDGGPALGGADVAPRLSPVRVWPRPQAPKEPALHPMGLSLPKEKGLILCLWSKFCRWFQRRESWAQSRDEQNLLQQKRIWESPLLLAAKDNDVQALNKLLKYEDCKVHQRGAMGETALHIAALYDNLEAAMVLMEAAPELVFEPMTSELYEGQTALHIAVVNQNMNLVRALLARRASVSARATGTAFRRSPCNLIYFGEHPLSFAACVNSEEIVRLLIEHGADIRAQDSLGNTVLHILILQPNKTFACQMYNLLLSYDRHGDHLQPLDLVPNHQGLTPFKLAGVEGNTVMFQHLMQKRKHTQWTYGPLTSTLYDLTEIDSSGDEQSLLELIITTKKREARQILDQTPVKELVSLKWKRYGRPYFCMLGAIYLLYIICFTMCCIYRPLKPRTNNRTSPRDNTLLQQKLLQEAYMTPKDDIRLVGELVTVIGAIIILLVEVPDIFRMGVTRFFGQTILGGPFHVLIITYAFMVLVTMVMRLISASGEVVPMSFALVLGWCNVMYFARGFQMLGPFTIMIQKMIFGDLMRFCWLMAVVILGFASAFYIIFQTEDPEELGHFYDYPMALFSTFELFLTIIDGPANYNVDLPFMYSITYAAFAIIATLLMLNLLIAMMGDTHWRVAHERDELWRAQIVATTVMLERKLPRCLWPRSGICGREYGLGDRWFLRVEDRQDLNRQRIQRYAQAFHTRGSEDLDKDSVEKLELGCPFSPHLSLPMPSVSRSTSRSSANWERLRQGTLRRDLRGIINRGLEDGESWEYQI |
| 6011 | sp|P68036|UB2L3\_HUMAN | MAASRRLMKELEEIRKCGMKNFRNIQVDEANLLTWQGLIVPDNPPYDKGAFRIEINFPAEYPFKPPKITFKTKIYHPNIDEKGQVCLPVISAENWKPATKTDQVIQSLIALVNDPQPEHPLRADLAEEYSKDRKKFCKNAEEFTKKYGEKRPVD |
| 6012 | sp|P69996|URE1\_HELPY | MKKISRKEYVSMYGPTTGDKVRLGDTDLIAEVEHDYTIYGEELKFGGGKTLREGMSQSNNPSKEELDLIITNALIVDYTGIYKADIGIKDGKIAGIGKGGNKDMQDGVKNNLSVGPATEALAGEGLIVTAGGIDTHIHFISPQQIPTAFASGVTTMIGGGTGPADGTNATTITPGRRNLKWMLRAAEEYSMNLGFLAKGNASNDASLADQIEAGAIGFKIHEDWGTTPSAINHALDVADKYDVQVAIHTDTLNEAGCVEDTMAAIAGRTMHTFHTEGAGGGHAPDIIKVAGEHNILPASTNPTIPFTVNTEAEHMDMLMVCHHLDKSIKEDVQFADSRIRPQTIAAEDTLHDMGIFSITSSDSQAMGRVGEVITRTWQTADKNKKEFGRLKEEKGDNDNFRIKRYLSKYTINPAIAHGISEYVGSVEVGKVADLVLWSPAFFGVKPNMIIKGGFIALSQMGDANASIPTPQPVYYREMFAHHGKAKYDANITFVSQAAYDKGIKEELGLERQVLPVKNCRNITKKDMQFNDTTAHIEVNPETYHVFVDGKEVTSKPANKVSLAQLFSIF |
| 6013 | sp|Q9BZM6|ULBP1\_HUMAN | MAAAASPAFLLCLPLLHLLSGWSRAGWVDTHCLCYDFIITPKSRPEPQWCEVQGLVDERPFLHYDCVNHKAKAFASLGKKVNVTKTWEEQTETLRDVVDFLKGQLLDIQVENLIPIEPLTLQARMSCEHEAHGHGRGSWQFLFNGQKFLLFDSNNRKWTALHPGAKKMTEKWEKNRDVTMFFQKISLGDCKMWLEEFLMYWEQMLDPTKPPSLAPGTTQPKAMATTLSPWSLLIIFLCFILAGR |
| 6014 | sp|G5EFJ9|UN103\_CAEEL | MKTAVFGRDSGEPGSPCGAPPSLTFTPPATLVPPTHHHSRSTNRGGVSGTGGGGSGGLQGAPGAGGPRASHSSRRTSRLHNNVSALGVLSLGADVLPEYKLQPTRIHHCTIVHYSPFKAVWDWIILLLVIYTAVFTPYVAAFLLRELQDTAKKSRFTEPLEIVDLIVDIMFIVDIIINFRTTYVNENDEACQVVSDPGKIATHYFKGWFIIDMVAAVPFDLLLVSTNSDETTTLIGLLKTARLLRLVRVARKLDRYSEYGAAVLLLLMATFALIAHWLACIWYAIGSAELSHKEYTWLHQLSKQLAQPYTSTNGTIPTGGPTLKSRYVTSLYFTLSTITSIGFGNVSATTDSEKIFTIIMMILGSLMYASVFGNVSAIIQRLYSGTARYHTEMSRLREFIRFHQIPNPLRQRLEEYFQHAWSYTNGIDMNLVLKGFPDCLQADICLHLNRNLLSGCAAFAGSTPGCLRALSMRFRTTHSPPGDTLVHRGDILTGLYFIARGSVEILNDDNTVMGILGKDDIFGENPLLYDEVGKSSCNVRALTYCDLHKILRDDLLDVLDMYPEFAETFCKNLTITYNLRDDAQSLRKKFDRHKLLRMSSSMNKDRYTTPPDGDHGNAAVRRSAESVSRCDSNPIDRRQSAGSRSSSRCSPPHAALTATRSEATPLLRRSTNHHEEDDALFDDIRAFARGNTVTMSPTVAGNSVSPTTAIHNDGIHSQQLSDRSDDYEERRANMFGRRLESIESQMERMQNKFNSDMETLIKLVKEQSIIRNNGSSNEEPNARYRPNNYISSAIRLPNGGGGGVVDEMRVSRLSSHEPPTPTQETDTIL |
| 6015 | sp|Q03714|USA1\_YEAST | MSEYLAQTPCKFTIWSSEIDLIRTNLLVNAHPLSTVGRLLQYIHYQIYKQLRAIYQPEEQCTNSEIPHTPLNSINTYFLSYEGRELSATCLLKDITSSSHPDSNHFIRLQLEKRTSPSGSAFDLEYDMEGEFNSMNIQFEINTLSSQRIFNSMEPNLPIGTTLARLEKLALERIKDFEKSAGNLCGIKEDHSVSDLQGFIIKGKQTPMFLNYGSDSDYYKDLNLVDLIGIDFAPAHNSFFTFLFKMNHEQNSHIANDEERFVLEFISDATLSITQMNVKPDTTVKQVKDFICSVYTHSLNLRRNDIKLIYKGQLLHENNFAGNSSKISEYIKEPHEVKVHVQINQEYTESGPGFWNEVFNNPNIFQFMPPDTRSQSPVSFAPTQGRSPAAIRGEERGIPYVTESGNDIVPTDELYRKCIINGDEVVFIPVSELNPQSSYLSVIKGDYGEIKIPISSNDYRINGDNILLSPSAIEQLESALNFKIERPRDSTLLHPSGEHVRAADNTSSANDNNTVENDESAWNRRVVRPLRNSFPLLLVLIRTFYLIGYNSLVPFFIILEFGSFLPWKYIILLSLLFIFRTVWNTQEVWNLWRDYLHLNEIDEVKFSQIKEFINSNSLTLNFYKKCKDTQSAIDLLMIPNLHEQRLSVYSKYDIEYDTNTPDVGQLNLLFIKVLSGEIPKDALDELFKEFFELYETTRNMNTLYPQDSLNELLLMIWKESQKKDINTLPKYRRWFQTLCSQIAEHNVLDVVLRYIIPDPVNDRVITAVIKNFVLFWVTLLPYVKEKLDDIVAQRARDREQPAPSAQQQENEDEALIIPDEEEPTATGAQPHLYIPDED |
| 6016 | sp|P16662|UD2B7\_HUMAN | MSVKWTSVILLIQLSFCFSSGNCGKVLVWAAEYSHWMNIKTILDELIQRGHEVTVLASSASILFDPNNSSALKIEIYPTSLTKTELENFIMQQIKRWSDLPKDTFWLYFSQVQEIMSIFGDITRKFCKDVVSNKKFMKKVQESRFDVIFADAIFPCSELLAELFNIPFVYSLSFSPGYTFEKHSGGFIFPPSYVPVVMSELTDQMTFMERVKNMIYVLYFDFWFEIFDMKKWDQFYSEVLGRPTTLSETMGKADVWLIRNSWNFQFPYPLLPNVDFVGGLHCKPAKPLPKEMEDFVQSSGENGVVVFSLGSMVSNMTEERANVIASALAQIPQKVLWRFDGNKPDTLGLNTRLYKWIPQNDLLGHPKTRAFITHGGANGIYEAIYHGIPMVGIPLFADQPDNIAHMKARGAAVRVDFNTMSSTDLLNALKRVINDPSYKENVMKLSRIQHDQPVKPLDRAVFWIEFVMRHKGAKHLRVAAHDLTWFQYHSLDVIGFLLVCVATVIFIVTKCCLFCFWKFARKAKKGKND |
| 6017 | sp|Q13336|UT1\_HUMAN | MEDSPTMVRVDSPTMVRGENQVSPCQGRRCFPKALGYVTGDMKELANQLKDKPVVLQFIDWILRGISQVVFVNNPVSGILILVGLLVQNPWWALTGWLGTVVSTLMALLLSQDRSLIASGLYGYNATLVGVLMAVFSDKGDYFWWLLLPVCAMSMTCPIFSSALNSMLSKWDLPVFTLPFNMALSMYLSATGHYNPFFPAKLVIPITTAPNISWSDLSALELLKSIPVGVGQIYGCDNPWTGGIFLGAILLSSPLMCLHAAIGSLLGIAAGLSLSAPFEDIYFGLWGFNSSLACIAMGGMFMALTWQTHLLALGCALFTAYLGVGMANFMAEVGLPACTWPFCLATLLFLIMTTKNSNIYKMPLSKVTYPEENRIFYLQAKKRMVESPL |
| 6018 | sp|Q9JKB1|UCHL3\_MOUSE | MEGQRWLPLEANPEVTNQFLKQLGLHPNWQFVDVYGMEPELLSMVPRPVCAVLLLFPITEKYEVFRTEEEEKIKSQGQDVTSSVYFMKQTISNACGTIGLIHAIANNKDKMHFESGSTLKKFLEESVSMSPEERAKFLENYDAIRVTHETSAHEGQTEAPSIDEKVDLHFIALVHVDGHLYELDGRKPFPINHGKTSDETLLEDAIEVCKKFMERDPDELRFNAIALSAA |
| 6019 | sp|Q64633|UD17\_RAT | MAPADVPASLPLGLCLLLASGFGHAGKLLVVPMDGSHWFTMQMVVEKLLPKGHEVVVVVPEVSWQLGKPLNFTVKTYSVSHTQEDLNREFKFFIDSQWKTQQESGVLPLLTSPAQGFFELLFSHCRSLFKDKKLVEYLKQSSFDAVFLDPFDVCGLTVAKYFSLPSVVFSRGIFCHYLEEGSQCPSPPSYVPRPILKLTDTMTFKERVWNLLSYMGEHAFCPSFFKTATDIASEVLQTPVTMTDLFSPVSVWLLRTDFTLELPRPVMPNVIHIGGINCHQRKPVSKEFEAYVNASGEHGIVVFSLGSMVSEIPEKKAMEIAEALGRIPQTLLWRYTGTRPSNLAKNTILVKWLPQNDLLGHPKARAFITHSGSHGIYEGICNGVPMVMMPLFGDQMDNAKRMETRGAGVTLNVLEMTADDLENALKTVINNKSYKENIMRLSSLHKDRPIEPLDLAVFWVEYVMRHKGAPHLRPAAHDLTWYQYHSLDVIGFLLAIVLTVVFIVYKSCAYGCRKCFGGKGRVKKSHKSKTH |
| 6020 | sp|Q9N5D6|UNC62\_CAEEL | MSGDSKVWAHASADTWAVQNGISTYDLDTSSIKREKRDHNEQFNDGYGPPPGSASADPASYIADPAAFYNLYTNMGGAPTSTPMMHHEMGEAMKRDKESIYAHPLYPLLVLLFEKCELATSTPRDTSRDGSTSSDVCSSASFKDDLNEFVRHTQENADKQYYVPNPQLDQIMLQSIQMLRFHLLELEKVHELCDNFCNRYVVCLKGKMPLDIVGDERASSSQPPMSPGSMGHLGHSSSPSMAGGATPMHYPPPYEPQSVPLPENAGVMGGHPMEGSSMAYSMAGMAAAAASSSSSSNQAGDHPLANGGTLHSTAGASQTLLPIAVSSPSTCSSGGLRQDSTPLSGETPMGHANGNSMDSISEAGDEFSVCGSNDDGRDSVLSDSANGSQNGKRKVPKVFSKEAITKFRAWLFHNLTHPYPSEEQKKQLAKETGLTILQVNNWFINARRRIVQPMIDQNNRAGRSGQMNVCKNRRRNRSEQSPGPSPDSGSDSGANYSPDPSSLAASTAMPYPAEFYMQRTMPYGGFPSFTNPAMPFMNPMMGFQVAPTVDALSQQWVDLSAPHE |
| 6021 | sp|Q9BY64|UDB28\_HUMAN | MALKWTSVLLLIHLGCYFSSGSCGKVLVWTGEYSHWMNMKTILKELVQRGHEVTVLASSASILFDPNDAFTLKLEVYPTSLTKTEFENIIMQQVKRWSDIQKDSFWLYFSQEQEILWEFHDIFRNFCKDVVSNKKVMKKLQESRFDIIFADAFFPCGELLAALLNIPFVYSLCFTPGYTIERHSGGLIFPPSYIPVVMSKLSDQMTFMERVKNMIYVLYFDFWFQMCDMKKWDQFYSEVLGRPTTLFETMGKADIWLMRNSWSFQFPHPFLPNIDFVGGLHCKPAKPLPKEMEEFVQSSGENGVVVFSLGSVISNMTAERANVIATALAKIPQKVLWRFDGNKPDALGLNTRLYKWIPQNDLLGLPKTRAFITHGGANGIYEAIYHGIPMVGIPLFWDQPDNIAHMKAKGAAVRLDFHTMSSTDLLNALKTVINDPSYKENVMKLSIIQHDQPVKPLHRAVFWIEFVMCHKGAKHLRVAARDLTWFQYHSLDVIGFLLACVATVIFVVTKFCLFCFWKFARKGKKGKRD |
| 6022 | sp|P0A887|UBIE\_ECOLI | MVDKSQETTHFGFQTVAKEQKADMVAHVFHSVASKYDVMNDLMSFGIHRLWKRFTIDCSGVRRGQTVLDLAGGTGDLTAKFSRLVGETGKVVLADINESMLKMGREKLRNIGVIGNVEYVQANAEALPFPDNTFDCITISFGLRNVTDKDKALRSMYRVLKPGGRLLVLEFSKPIIEPLSKAYDAYSFHVLPRIGSLVANDADSYRYLAESIRMHPDQDTLKAMMQDAGFESVDYYNLTAGVVALHRGYKF |
| 6023 | sp|Q96B02|UBE2W\_HUMAN | MASMQKRLQKELLALQNDPPPGMTLNEKSVQNSITQWIVDMEGAPGTLYEGEKFQLLFKFSSRYPFDSPQVMFTGENIPVHPHVYSNGHICLSILTEDWSPALSVQSVCLSIISMLSSCKEKRRPPDNSFYVRTCNKNPKKTKWWYHDDTC |
| 6024 | sp|P61087|UBE2K\_MOUSE | MANIAVQRIKREFKEVLKSEETSKNQIKVDLVDENFTELRGEIAGPPDTPYEGGRYQLEIKIPETYPFNPPKVRFITKIWHPNISSVTGAICLDILKDQWAAAMTLRTVLLSLQALLAAAEPDDPQDAVVANQYKQNPEMFKQTARLWAHVYAGAPVSSPEYTKKIENLCAMGFDRNAVIVALSSKSWDVETATELLLSN |
| 6025 | sp|O14972|VP26C\_HUMAN | MGTALDIKIKRANKVYHAGEVLSGVVVISSKDSVQHQGVSLTMEGTVNLQLSAKSVGVFEAFYNSVKPIQIINSTIEMVKPGKFPSGKTEIPFEFPLHLKGNKVLYETYHGVFVNIQYTLRCDMKRSLLAKDLTKTCEFIVHSAPQKGKFTPSPVDFTITPETLQNVKERALLPKFLLRGHLNSTNCVITQPLTGELVVESSEAAIRSVELQLVRVETCGCAEGYARDATEIQNIQIADGDVCRGLSVPIYMVFPRLFTCPTLETTNFKVEFEVNIVVLLHPDHLITENFPLKLCRI |
| 6026 | sp|Q9P2U7|VGLU1\_HUMAN | MEFRQEEFRKLAGRALGKLHRLLEKRQEGAETLELSADGRPVTTQTRDPPVVDCTCFGLPRRYIIAIMSGLGFCISFGIRCNLGVAIVSMVNNSTTHRGGHVVVQKAQFSWDPETVGLIHGSFFWGYIVTQIPGGFICQKFAANRVFGFAIVATSTLNMLIPSAARVHYGCVIFVRILQGLVEGVTYPACHGIWSKWAPPLERSRLATTAFCGSYAGAVVAMPLAGVLVQYSGWSSVFYVYGSFGIFWYLFWLLVSYESPALHPSISEEERKYIEDAIGESAKLMNPLTKFSTPWRRFFTSMPVYAIIVANFCRSWTFYLLLISQPAYFEEVFGFEISKVGLVSALPHLVMTIIVPIGGQIADFLRSRRIMSTTNVRKLMNCGGFGMEATLLLVVGYSHSKGVAISFLVLAVGFSGFAISGFNVNHLDIAPRYASILMGISNGVGTLSGMVCPIIVGAMTKHKTREEWQYVFLIASLVHYGGVIFYGVFASGEKQPWAEPEEMSEEKCGFVGHDQLAGSDDSEMEDEAEPPGAPPAPPPSYGATHSTFQPPRPPPPVRDY |
| 6027 | sp|P59016|VP33B\_MOUSE | MAFPHRLDAPELPDFSMLKRLARDQLIYLLEQLPGKKDLFIEADLMSPLDRIANVSILKQHEVDKLYKVENKPALSANEQLCFLVRPRIKNMRYIASLVNADKLAGRIRKYKVILSPQKFYACEMVLEEEGVYGDVSCDEWAFSLLPLDVDLLSMELPEFFRDYFLEGDQRWINTVAQALHLLSTLYGPFPNCYGIGRCAKMSYDLWRKLEEEEDSETKGRKPEIGHIFLLDRDVDFVTALCSQVVYEGLVDDTFRIKCGSVDFGPEVTSSDKSLKVLLNAEDKVFSEIRNEHFSNVFGFLSQKARNLQAQYDRRRGMDIKQMKNFVSQELKGLKQEHRLLSLHIGACESIMKKKTKQDFQELIKTEHALLEGFNIRESTSYIEEHIDRQVSPIESLRLMCLLSITENGLIPKDYRSLKTQYLQSYGPEHLLTFSNLRRAGLLTEQAPGDTLTAVESKVSKLVTDKAAGKITDAFSSLAKRSNFRAISKKLNLIPRVDGEYDLKVPRDMAYVFSGAYVPLSCRIIEQVLDRRSWQGLDEVVRLLNCSEFAFTDTAKEDKASSESLRLILVVFLGGCTFSEISALRFLGREKGYRFIFLTTAVTNSARLMEAMSEVKS |
| 6028 | sp|Q9Y1I2|VP33A\_DROME | MFPHLKGHGQRVNLQLLQEAACRELLQQLDRIEGSKVIVLDETMIGPLDLVTRPKLFADRGIRLLALKPELHLPREVANVVYVMRPRVALMEQLAAHVKAGGRAAAGRQYHILFAPRRSCLCVSQLEVSGVLGSFGNIEELAWNYLPLDVDLVSMEMPNAFRDVSVDGDTSSLYQAAVGLVQLQRLYGRIPKIYGKGEFAHRVWEHAKQLGRDERTLYNGDKGVVDQLILLDRSIDLLSPLATQLTYEGLIDEFYGIRQNKLTLPAENFPSDGALPGGGGSGPRVEESQSLLGDTEKKTILLHSGEQLYAELRNKHFNEVTKLLARKAREIHVQMHATSQDKSVQEIKSFVENLLPQLMAQKKATSEHTAIAGLLHEQVNAVRFADDLAAEQEFMVCADIDKPSAYIEDLIACRVELNRVLRLICMQCHAASGFKEKLLNHYKRELVHVYGLEVLLTISNLEKSGLLHLQTESRAYSVLRKTLHLTVDDNVEIEPKDISYVHSFYAPLTARIVEHSLKPLGWQTLKSQINNLPGPTFEDFQAQLVGIGGRHTVTTVSEGSLLNVPRVVLVCFVGGCTFAEIAALRFLAAQEDNNVEFLIATTKVVNKHSFLDSLMSS |
| 6029 | sp|Q99437|VATO\_HUMAN | MTGLALLYSGVFVAFWACALAVGVCYTIFDLGFRFDVAWFLTETSPFMWSNLGIGLAISLSVVGAAWGIYITGSSIIGGGVKAPRIKTKNLVSIIFCEAVAIYGIIMAIVISNMAEPFSATDPKAIGHRNYHAGYSMFGAGLTVGLSNLFCGVCVGIVGSGAALADAQNPSLFVKILIVEIFGSAIGLFGVIVAILQTSRVKMGD |
| 6030 | sp|P48143|VIP\_CHICK | MEHRGASPLLLALALLSALCWRARALPPRGAAFPAVPRLGNRLPFDAASESDRAHGSLKSESDILQNTLPENEKFYFDLSRIIDRNARHADGIFTSVYSHLLAKLAVKRYLHSLIRKRVSSQDSPVKRHSDAVFTDNYSRFRKQMAVKKYLNSVLTGKRSQEELNPAKLRGEAEILEPSFSENYDDVSVDELLSHLPLDL |
| 6031 | sp|P11574|VATB1\_ARATH | MGTNDLDIEEGTLEIGMEYRTVSGVAGPLVILDKVKGPKYQEIVNIRLGDGSTRRGQVLEVDGEKAVVQVFEGTSGIDNKFTTVQFTGEVLKTPVSLDMLGRIFNGSGKPIDNGPPILPEAYLDISGSSINPSERTYPEEMIQTGISTIDVMNSIARGQKIPLFSAAGLPHNEIAAQICRQAGLVKRLEKTVDLLEDHGEDNFAIVFAAMGVNMETAQFFKRDFEENGSMERVTLFLNLANDPTIERIITPRIALTTAEYLAYECGKHVLVILTDMSSYADALREVSAAREEVPGRRGYPGYMYTDLATIYERAGRIEGRKGSITQIPILTMPNDDITHPTPDLTGYITEGQIYIDRQLHNRQIYPPINVLPSLSRLMKSAIGEGMTRKDHSDVSNQLYANYAIGKDVQAMKAVVGEEALSSEDLLYLEFLDKFERKFVMQGAYDTRNIFQSLDLAWTLLRIFPRELLHRIPAKTLDQFYSRDSTS |
| 6032 | sp|A2ARP1|VIP1\_MOUSE | MWSLTANEDESTTAHFFLGAGDEGLGTCGIGMRTEESDSELLEDEEDEVPPEPQIIVGICAMTKKSKSKPMTQILERLCRFDYLTVVILGEDVILNEPVENWPSCHCLISFHSKGFPLDKAVAYSKLRNPFLINDLAMQYYIQDRREVYRILQEEGIDLPRYAVLNRDPACPEECSLIEGEDQVEVNGAVFPKPFVEKPVSAEDHNVYIYYPSSAGGGSQRLFRKIGSRSSVYSPESSVRKTGSYIYEEFMPTDGTDVKVYTVGPDYAHAEARKSPALDGKVERDSEGKEVRYPVMLTAMEKLVARKVCVAFKQTVCGFDLLRANGHSFVCDVNGFSFVKNSMKYYDDCAKILGNTIMRELAPQFQIPWSIPTEAEDIPIVPTTSGTMMELRCVIAIIRHGDRTPKQKMKMEVTHPRFFALFEKHGGYKTGKLKLKRPEQLQEVLDITRLLLAELEKEPEAEIEEKTGKLEQLKSVLEMYGHFSGINRKVQLTYYPHGVKASNEGQDLQREPLAPSLLLVLKWGGELTPDGRVQAEELGRAFRCMYPGGQGDYAGFPGCGLLRLHSTFRHDLKIYASDEGRVQMTAAAFAKGLLALEGELTPILVQMVKSANMNGLLDSDSDSLSSCQHRVKARLHHILQQDAPFGPEDYDQLAPTGSTSLLNSMSVIQNPVKVCDQVFALIENLTHQIRERMQDPSSVDLQLYHSETLELMLQRWSKLERDFRQKSGRYDISKIPDIYDCVKYDVQHNGSLGLQGTAELLRLSKALADVVIPQEYGISREEKVEIAVGFCLPLLRKILLDLQRTHEDESVNKLHPLYSRGVLSPGRHVRTRLYFTSESHVHSLLSVFRYGGLLDETQDAQWQRALAYLSAISELNYMTQIVIMLYEDNTRDPLSEERFHVELHFSPGVKGVEEGSAPAGCGFRPASSENEEMKTDPGSIENLCPGKASDEPDRALQTSPQPVEGTGLPRRSPLIRNRKAGSMEVLSETSSSRPGGYRLFSSSRPPTEMKQSGLGSQCTGLFSTTVLGGSSSAPNLQDYARTHGKKLPPASLKHRDELLFVPAVKRFSVSFAKHPTNGFEGCSMVPTIYPLETLHNALSLRQVSEFLTKVCQRHTDAHAQASAALFDSMHNHQASDSPFSPPRTLHSPPLQLRHRSEKPPWYSSGPSSTVSSAGPSSPTTVDGNSHFGFSDQSSVNIHMTEEKQGFGLLQETPGDGTRELHIERQQELVEPAQSPQELPVEICPSGSQGVTKVSQTCQEVPDIVQPCHNIHEEIGQPQQEVPDISQLLLKDHDTTTNTCHLCQASQLSQKVCEEICQLCQDNHEESNQLCQEVSVKLGRMVHGFPVNVDSTAQETLMEIGRPTQEIPEDPYQEFSVKVGVLAQKAPAISELSQDIPEADKPSQELSEETELQAQEVSEEIDQESEVVDELPPEAIS |
| 6033 | sp|O57413|VM2T3\_PROMU | MIEVLLVTICLAVFPYQGSSIILESGNVNDYEVVYPRKVSALPKGAVQPKYEDAMQYEFKVNGEAVVLHLEKNKGLFSEDYSETHYSPDGREITTYPSVEDHCYYHGRIHNDADSTASISACDGLKGYFKLQGETYPIEPLELSDSEAHAVFKYENVEKEDEAPKMCGVTQNWESDESIKKASQLYLTPEQQRFPQRYIKLAIVVDHGMYTKYSSNFKKIRKRVHQMVSNINEMCRPLNIAITLALLDVWSEKDFITVQADAPTTAGLFGDWRERVLLKKKNHDHAQLLTDTNFARNTIGWAYVGRMCDEKYSVAVVKDHSSKVFMVAVTMTHELGHNLGMEHDDKDKCKCDTCIMSAVISDKQSKLFSDCSKDYYQTFLTNDNPQCILNAPLRTDTVSTPVSGNEFLEAGEECDCGSPENPCCDAATCKLRPGAQCAEGLCCDQCRFKKKRTICRRARGDNPDDRCTGQSADCPRNGLYG |
| 6034 | sp|Q9Z269|VAPB\_RAT | MAKVEQVLSLEPQHELKFRGPFTDVVTTNLKLGNPTDRNVCFKVKTTAPRRYCVRPNSGVIDAGASLNVSVMLQPFDYDPNEKSKHKFMVQSMFAPPDTSDMEAVWKEAKPEDLMDSKLRCVFELPAENAKPHDVEINKIMPTSASKTEAPVAAKPLTSPLDDAEVKKVMEECRRLQGEVQRLREESRQLKEEDGLRARKALPSNSPMAALAASGKEEGLSARLLALVVLFFIVGVIIGKIAL |
| 6035 | sp|Q8BRU6|VMAT2\_MOUSE | MALSDLVLLRWLRDSRHSRKLILFIVFLALLLDNMLLTVVVPIIPSYLYSIKHEKNTTEIQTARPALTASTSESFHSIFSYYNNSTVFTGNATGGLPGGESPKATTTQHTVTNTTVPPDCPSEDKDLLNENVQVGLLFASKATVQLLTNPFIGLLTNRIGYPIPMFAGFCIMFISTVMFAFSSSYAFLLIARSLQGIGSSCSSVAGMGMLASVYTDDEERGNAMGIALGGLAMGVLVGPPFGSVLYEFVGKTAPFLVLAALVLLDGAIQLFVLQPSRVQPESQKGTPLTTLLKDPYILIAAGSICFANMGIAMLEPALPIWMMETMCSRKWQLGVAFLPASISYLIGTNIFGILAHKMGRWLCALLGMIVVGISILCIPFAKNIYGLIAPNFGVGFAIGMVDSSMMPIMGYLVDLRHVSVYGSVYAIADVAFCMGYAIGPSAGGAIAKAIGFPWLMTIIGIIDIVFAPLCFFLRSPPAKEEKMAILMDHNCPIKTKMYTQNNVQPYPVGDDEESESD |
| 6036 | sp|O70480|VAMP4\_MOUSE | MPPKFKRHLNDDDVTGSVKSERRNLLEDDSDEEEDFFLRGPSGPRFGPRNDKIKHVQNQVDEVIDVMQENITKVIERGERLDELQDKSESLSDNATAFSNRSKQLRRQMWWRGCKIKAIMALAAAILLLMIIILIVVKFRT |
| 6037 | sp|Q02354|UTP6\_YEAST | MSKTRYYLEQCIPEMDDLVEKGLFTKNEVSLIMKKRTDFEHRLNSRGSSINDYIKYINYESNVNKLRAKRCKRILQVKKTNSLSDWSIQQRIGFIYQRGTNKFPQDLKFWAMYLNYMKARGNQTSYKKIHNIYNQLLKLHPTNVDIWISCAKYEYEVHANFKSCRNIFQNGLRFNPDVPKLWYEYVKFELNFITKLINRRKVMGLINEREQELDMQNEQKNNQAPDEEKSHLQVPSTGDSMKDKLNELPEADISVLGNAETNPALRGDIALTIFDVCMKTLGKHYINKHKGYYAISDSKMNIELNKETLNYLFSESLRYIKLFDEFLDLERDYLINHVLQFWKNDMYDLSLRKDLPELYLKTVMIDITLNIRYMPVEKLDIDQLQLSVKKYFAYISKLDSASVKSLKNEYRSYLQDNYLKKMNAEDDPRYKILDLIISKL |
| 6038 | sp|Q5ZL74|VAMP7\_CHICK | MAILFAVVARGTTILAKHAWCGGNFLEVTEQILAKIPSENNKLTYSHGNYLFHYICQDRIIYLCITDDDFERSRAFNFLNEIKKRFQTTYGSRAQTALPYAMNSEFSSVLAAQLKYHSESKGTDQVAETQAQVDELKGIMVRNIDLVAQRGEKLELLIDKTENLVDSSVTFKTTSRNLARAMCMKNLKLTIIIIIVSIVIIYIIVSAACGGLAWPSCVQK |
| 6039 | sp|Q9VWS4|WGN\_DROME | MMPPRLPGGHGGAMRSRSSSSGHHLNTTFHKRRRRRQQHHIGGSHISISHGSYLALLLLSTTCSLVATSASSSSSAANTDIAPPDPPPVSQVSIASSSPCAPQHWWDSQRDRCTPCTRCQGEMIPLRPCQLHTDTICGSIYDLKIDWVVLAKTEPNWKERRKSSEYEHFEHNAPLQHLTHEQLQQLHEEAAAAWVLDWQTGVLYVAVLTCLVFFSVAACILIHHMRQWRRMERRLDQDVEELSTKLMAKLAEVQSLDGGTFFIGNADALRGLPASAATTHPATTQSGIFQPQHVLLPEKRGKHQERRILKTLQPGNVYIEESNAGLGGMGVGLGVRGCSGLKG |
| 6040 | sp|Q9JI51|VTI1A\_RAT | MSADFEGYEQDFAVLTAEITSKISRVPRLPPDEKKQMVANVEKQLEEARELLEQMDLEVREIPPQSRGMYSNRMRSYKQEMGKLETDFKRSRIAYSDEVRNELLGDAGNSSENQLIKLREERAHLLDNTERLERSSRRLEAGYQIAVETEQIGQEMLENLSHDRERIQRARERLRETDANLGKSSRILTGMLRRIIQNRILLVILGIIVVITILTAITFFVRGH |
| 6041 | sp|X5M5N0|WNK\_CAEEL | MPDSITNGGRPPAPPSSVSSTTASTTGNFGTRRRLVNRIKKVDELHPAQENPTMGSHWLSEQERSRLEAVQQDWRRTRPMKFQWTSKKRPDDPTTSSPSTVSISNALENSTPSLNNVSSITNSSSPFSLSSAATSTASAIIPFTSNVATNHPHLNHHVSRIPQAIVTGGTNGSLPPLLISPTSAAAATPLISGKAGPMSPSTGSPINVAATVLQNAVSSPQHSIFDRSRLNKIPPNTSLASSSSPSDAANNDKPIQQRHSILSNVRTLTQAMVNDGPRTLTGDDMDKMVSEEERARKEQEKREEEEKAARRIDVEDDFDAQEKPIDKSKNGRFLKFDEELGRGSFKTVFRGLDTETGVAVAWCELQESKLNKTERQRFREEAEMLKDLQHPNIVRFYDYWESADLCGKRKYIVLVTELMTSGTLKMYLKRFKRINIKVLKSWCRQILKGLSFLHTRNPPVIHRDLKCDNIFITGTTGSVKIGDLGLATLKNKSFAKSVIGTPEFMAPEMYEEMYDESVDVYAFGMCLLEMVTGEYPYSECMNPATIYRKVISGVKPECFSRIPAQYPEIREIIDRCIRVRREERSTVKQLLVDDFFTPEDLIGIRVEIKNRDADLNDLNVEIQMQLRVYDEKKRKQYRFKENEGLQFAFDIENDSPDEVVQQMIEQQHIPDEDTRMITKLIKDKVDAFRRDRDHRLLEIKRAKEEEERIREEAEIKEELRLRAEAKEKEKERLEKERLEKKAAAAAAANPNPTPIPPTPATPHSSAQQQPIPPPLSTQTSAEIQQSAQQPSVPVTMIANIPAMSPTSAQPQPVLSPTSAAVPVPTTMIHVPKPSEIPVQNVATTAAPVAANNVPPSPAPFKTEDIQTPTLAQNTVPRTISTDASGLVINTPASIASPSPAPSATDVASTTAPVTPAPTPTTTTDGGAAAASTTTENKEEKRKSNKRKVVMEILGCDESRNFALVSCRLDTSHKSVTFQFAPGTDKPCTIATKLLAEDCLLKVHVHIVEAQLGEVIQLINSDGKKGVGTKLATVLDPNSTEPPTITAVMPKDSSAATASNTKPKIEIEKTPPTRDASQEPNNVQVTNVRKVSQESNAESVQSIPRPGGIIVMSPTNQTDSAPPPTGAAAKPSRFQVTKSADPIATPISSSISTATVIPIVAATPTNITSEPVIVQPITAQVITHLATPSPVSHSLSSNSSPSATTHSNMSSIQSTTSVPGRRFTVQPVSQAESGISSSISTPHPEPTPAITSCPPPVPSVPPVVSNGTLNLEVAPKQTPSATNQNVDTQHSSSTASTATLVSETPATVHVTPISVPAPVQEPLVIDHHSDVLTQLDSELRKCFQVSGVSHSASPSTVVESLTSMTPQTIPLACQTVPASIGQAPAVIAAAHAASLIPNASVPQSPSRLDAETGLAGLHEKLEALKMEQDRREDMGDDAIGTTTTDGKDEIPIDTLKGLAEALGKVIHADGRETTPMPPDHPDLTDASTQQLISPSNPDVLTTMSSAVEGSASSTMIEDIDASTSAVDASMMNSMPPGAQNSTDQIPAAMTLSMDQECAQSMTSSITRNTTGTKLATFENLETALSSTLGTHIRQPNAPSSRDETTAPMTPSFTNERIGGGGGGGATSFSIGTPPSHSPFPVSECDYDLKGQMDLESEDPEVIQMIVRHRMEQHKLLEKQRVEIERLRSKIRVPRATSVNPEMIGDDEADTTLTALQSALGNASLSLPASPPPNTEIPDNEGQHHCNSFRCIGDPNDNVSIVNQIKQRLGIIPSSRQSVRSATSSSPSTPPSSSSAPPKSLSSPTKSYVSHCSLSIGYGSTASSEQQQREPSPSATTSSFLSDPATGVIENV |
| 6042 | sp|P0AGF4|XYLE\_ECOLI | MNTQYNSSYIFSITLVATLGGLLFGYDTAVISGTVESLNTVFVAPQNLSESAANSLLGFCVASALIGCIIGGALGGYCSNRFGRRDSLKIAAVLFFISGVGSAWPELGFTSINPDNTVPVYLAGYVPEFVIYRIIGGIGVGLASMLSPMYIAELAPAHIRGKLVSFNQFAIIFGQLLVYCVNYFIARSGDASWLNTDGWRYMFASECIPALLFLMLLYTVPESPRWLMSRGKQEQAEGILRKIMGNTLATQAVQEIKHSLDHGRKTGGRLLMFGVGVIVIGVMLSIFQQFVGINVVLYYAPEVFKTLGASTDIALLQTIIVGVINLTFTVLAIMTVDKFGRKPLQIIGALGMAIGMFSLGTAFYTQAPGIVALLSMLFYVAAFAMSWGPVCWVLLSEIFPNAIRGKALAIAVAAQWLANYFVSWTFPMMDKNSWLVAHFHNGFSYWIYGCMGVLAALFMWKFVPETKGKTLEELEALWEPETKKTQQTATL |
| 6043 | sp|Q9M9C5|Y1680\_ARATH | MAKSSFFNKHLLLSLLILLQSCLLSSSSSTDSETLLNFKLTADSTGKLNSWNTTTNPCQWTGVSCNRNRVTRLVLEDINLTGSISSLTSLTSLRVLSLKHNNLSGPIPNLSNLTALKLLFLSNNQFSGNFPTSITSLTRLYRLDLSFNNFSGQIPPDLTDLTHLLTLRLESNRFSGQIPNINLSDLQDFNVSGNNFNGQIPNSLSQFPESVFTQNPSLCGAPLLKCTKLSSDPTKPGRPDEAKASPLNKPETVPSSPTSIHGGDKSNNTSRISTISLIAIILGDFIILSFVSLLLYYCFWRQYAVNKKKHSKILEGEKIVYSSNPYPTSTQNNNNQNQQVGDKGKMVFFEGTRRFELEDLLRASAEMLGKGGFGTAYKAVLEDGNEVAVKRLKDAVTVAGKKEFEQQMEVLGRLRHTNLVSLKAYYFAREEKLLVYDYMPNGSLFWLLHGNRGPGRTPLDWTTRLKIAAGAARGLAFIHGSCKTLKLTHGDIKSTNVLLDRSGNARVSDFGLSIFAPSQTVAKSNGYRAPELIDGRKHTQKSDVYSFGVLLLEILTGKCPNMVETGHSGGAVDLPRWVQSVVREEWTAEVFDLELMRYKDIEEEMVGLLQIAMACTAVAADHRPKMGHVVKLIEDIRGGGSEASPCNDGINSAVDSPCLSEDTCGGTTSQ |
| 6044 | sp|C0LGR6|Y4291\_ARATH | MGAHSVFLILFSVIAIAIVVHGQGQAGFISIDCGSPPNINYVDTDTGISYTWDAPFINAGVNLNVSEEYGYPKNPVLPFPLADVRSFPQGNRNCYTLTPSDGKGNLYLIRASFMYGNYDGKNALPEFDLYVNVNFWTSVKLRNASENVIKEILSFAESDTIYVCLVNKGKGTPFISALELRPMNSSIYGTEFGRNVSLVLYQRWDTGYLNGTGRYQKDTYDRIWSPYSPVSWNTTMTTGYIDIFQSGYRPPDEVIKTAASPKSDDEPLELSWTSSDPDTRFYAYLYFAELENLKRNESREIKIFWNGSPVSGAFNPSPEYSMTVSNSRAFTGKDHWISVQKTAESTRPPILNAIEIFSAQSLDEFYTRIDDVQAIESIKSTYKVNKIWTGDPCSPRLFPWEGIGCSYNTSSYQIKSLNLSSSGLHGPIAFAFRNLSLLESLDLSNNNLKGIVPEFLADLKYLKSLNLKGNNLTGFIPRSLRKRATANGLALSVDEQNICHSRSCRDGNRIMVPIVVSTLVIILIAALAIICIMRRESKIMYSGAYSGPLLPSGKRRFTYSEVSSITNNFNKVIGKGGFGIVYLGSLEDGTEIAVKMINDSSFGKSKGSSSSSSSSQVSKEFQVEAELLLTVHHRNLASFVGYCDDGRSMALIYEYMANGNLQDYLSSENAEDLSWEKRLHIAIDSAQGLEYLHHGCRPPIVHRDVKTANILLNDNLEAKIADFGLSKVFPEDDLSHVVTAVMGTPGYVDPEYYNTFKLNEKSDVYSFGIVLLELITGKRSIMKTDDGEKMNVVHYVEPFLKMGDIDGVVDPRLHGDFSSNSAWKFVEVAMSCVRDRGTNRPNTNQIVSDLKQCLAAELAREPKSNHEKKEVVKEKYTKTKSTVQNYSSNEYNSSSGSVSLSFGDYSTFGPMAR |
| 6045 | sp|Q03855|YD11B\_YEAST | MESQQLSNYPHISHGSACASVTSKEVHTNQDPLDVSASKIQEYDKASTKANSQQTTTPASSAVPENPHHASPQPASVPPPQNGPYPQQCMMTQNQANPSGWSFYGHPSMIPYTPYQMSPMYFPPGPQSQFPQYPSSVGTPLSTPSPESGNTFTDSSSADSDMTSTKKYVRPPPMLTSPNDFPNWVKTYIKFLQNSNLGGIIPTVNGKPVRQITDDELTFLYNTFQIFAPSQFLPTWVKDILSVDYTDIMKILSKSIEKMQSDTQEANDIVTLANLQYNGSTPADAFETKVTNIIDRLNNNGIHINNKVACQLIMRGLSGEYKFLRYTRHRHLNMTVAELFLDIHAIYEEQQGSRNSKPNYRRNPSDEKNDSRSYTNTTKPKVIARNPQKTNNSKSKTARAHNVSTSNNSPSTDNDSISKSTTEPIQLNNKHDLHLGQELTESTVNHTNHSDDELPGHLLLDSGASRTLIRSAHHIHSASSNPGINVVDAQKRNIPINAIGDLQFHFQDNTKTSIKVLHTPNIAYDLLSLNELAAVDITACFTKNVLERSDGTVLAPIVKYGDFYWVSKKYLLPSNISVPTINNVHTSESTRKYPYPFIHRMLAHANAQTIRYSLKNNTITYFNESDVDWSSAIDYQCPDCLIGKSTKHRHIKGSRLKYQNSYEPFQYLHTDIFGPVHNLPNSAPSYFISFTDETTKFRWVYPLHDRREDSILDVFTTILAFIKNQFQASVLVIQMDRGSEYTNRTLHKFLEKNGITPCYTTTADSRAHGVAERLNRTLLDDCRTQLQCSGLPNHLWFSAIEFSTIVRNSLASPKSKKSARQHAGLAGLDISTLLPFGQPVIVNDHNPNSKIHPRGIPGYALHPSRNSYGYIIYLPSLKKTVDTTNYVILQGKESRLDQFNYDALTFDEDLNRLTASYHSFIASNEIQESNDLNIESDHDFQSDIELHPEQPRNVLSKAVSPTDSTPPSTHTEDSKRVSKTNIRAPREVDPNISESNILPSKKRSSTPQISNIESTGSGGMHKLNVPLLAPMSQSNTHESSHASKSKDFRHSDSYSENETNHTNVPISSTGGTNNKTVPQISDQETEKRIIHRSPSIDASPPENNSSHNIVPIKTPTTVSEQNTEESIIADLPLPDLPPESPTEFPDPFKELPPINSHQTNSSLGGIGDSNAYTTINSKKRSLEDNETEIKVSRDTWNTKNMRSLEPPRSKKRIHLIAAVKAVKSIKPIRTTLRYDEAITYNKDIKEKEKYIEAYHKEVNQLLKMNTWDTDKYYDRKEIDPKRVINSMFIFNRKRDGTHKARFVARGDIQHPDTYDSGMQSNTVHHYALMTSLSLALDNNYYITQLDISSAYLYADIKEELYIRPPPHLGMNDKLIRLKKSLYGLKQSGANWYETIKSYLIKQCGMEEVRGWSCVFKNSQVTICLFVDDMILFSKDLNANKKIITTLKKQYDTKIINLGEGDNEIQYDILGLEIKYQRSKYMKLGMEKSLTEKLPKLNVPLNPKGKKLRAPGQPGHYIDQDELEIDEDEYKEKVHEMQKLIGLASYVGYKFRFDLLYYINTLAQHILFPSRQVLDMTYELIQFMWDTRDKQLIWHKNKPTKPDNKLVAISDASYGNQPYYKSQIGNIFLLNGKVIGGKSTKASLTCTSTTEAEIHAVSEAIPLLNNLSHLVQELNKKPIIKGSLTDSRSTISIIKSTNEEKFRNRFFGTKAMRLRDEVSGNNLYVYYIETKKNIADVMTKPLPIKTFKLLTNKWIH |
| 6046 | sp|Q12501|YO22B\_YEAST | MESQQLHQNPHCPHGSAYASVTSKEVPSNQDPLAVSASNLPEFDRDSTKVNSQEETTPGTSAVPENHHHVSPQPASVPPPQNGQYQQHGMMTPNKAMASNWAHYQQPSMMTCSHYQTSPAYYQPDPHYPLPQYIPPLSTSSPDPIDSQDQHSEVPQAKTKVRNNVLPPHPHTSEENFSTWVKFYIRFLKNSNLGDIIPNDQGEIKRQMTYEEHAYIYNTFQAFAPFHLLPTWVKQILEINYSDILTVLCKSVSKMQTNNQELKDWIALANLEYNGSTSADTFEITVSTIIQRLKENNINVSDRLACQLILKGLSGDFKYLRNQYRTKTNMKLSQLFAEIQLIYDENKIMNLNKPSQYKQHSEYKNVSRTSPNTTNTKVTTRNYHRTNSSKPRAAKAHNIATSSKFSRVNNDHINESTVSSQYLSDDNELSLGQQQKESKPTRTIDSNDELPDHLLIDSGASQTLVRSAHYLHHATPNSEINIVDAQKQDIPINAIGNLHFNFQNGTKTSIKALHTPNIAYDLLSLSELTNQNITACFTRNTLERSDGTVLAPIVKHGDFYWLSKKYLIPSHISKLTINNVNKSKSVNKYPYPLIHRMLGHANFRSIQKSLKKNAVTYLKESDIEWSNASTYQCPDCLIGKSTKHRHVKGSRLKYQESYEPFQYLHTDIFGPVHHLPKSAPSYFISFTDEKTRFQWVYPLHDRREESILNVFTSILAFIKNQFNARVLVIQMDRGSEYTNKTLHKFFTNRGITACYTTTADSRAHGVAERLNRTLLNDCRTLLHCSGLPNHLWFSAVEFSTIIRNSLVSPKNDKSARQHAGLAGLDITTILPFGQPVIVNNHNPDSKIHPRGIPGYALHPSRNSYGYIIYLPSLKKTVDTTNYVILQNNQTKLDQFDYDTLTFDDDLNRLTAHNQSFIEQNETEQSYDQNTESDHDYQSEIEINSDPLVNDFSSQSLNPLQLDKEPVQKVRAPKEVDADISEYNILPSTIRSRTPHIINKESTEMGGTIESDTTSPRHSSTFTARNQKRPGSPNDMIDLTSQDRVNYGLENIKTTRLGGTEEPYIQRNSDTNIKYRTTNSTPSIDDRSSNSDSTTPIISIETKAACDNTPSIDTDPPEYRSSDHATPNIMPDKSSKNVTADSILDDLPLPDLTHKSPTDTSDVSKDIPHIHSRQTNSSLGGMDDSNVLTTTKSKKRSLEDNETEIEVSRDTWNNKNMRSLEPPRSKKRINLIAAIKGVKSIKPVRTTLRYDEAITYNKDNKEKDRYVEAYHKEISQLLKMNTWDTNKYYDRNDIDPKKVINSMFIFNKKRDGTHKARFVARGDIQHPDTYDSDMQSNTVHHYALMTSLSIALDNDYYITQLDISSAYLYADIKEELYIRPPPHLGLNDKLLRLRKSLYGLKQSGANWYETIKSYLINCCDMQEVRGWSCVFKNSQVTICLFVDDMILFSKDLNANKKIITTLKKQYDTKIINLGEGDNEIQYDILGLEIKYQRSKYMKLGMEKSLTEKLPKLNVPLNPKGKKLRAPGQPGHYIDQDELEIDEDEYKEKVHEMQKLIGLASYVGYKFRFDLLYYINTLAQHILFPSRQVLDMTYELIQFMWDTRDKQLIWHKNKPTKPDNKLVAISDASYGNQPYYKSQIGNIFLLNGKVIGGKSTKASLTCTSTTEAEIHAVSEAIPLLNNLSHLVQELNKKPIIKGLLTDSRSTISIIKSTNEEKFRNRFFGTKAMRLRDEVSGNNLYVYYIETKKNIADVMTKPLPIKTFKLLTNKWIH |
| 6047 | sp|Q12697|YPK9\_YEAST | MDIPSSNQIQHGQRSERNRRMPRASFSSTATTSTAATLTSAMVLDQNNSEPYAGATFEAVPSSIVSFHHPHSFQSSNLPSPHSSGNLEQRGRRLTESEPLVLSSAEQSRSSSRNPSHFRFFTQEQISNAEGASTLENTDYDMAWDATPAYEQDRIYGTGLSSRRSSIRSFSRASSLSNAKSYGSFSKRGRSGSRAPQRLGENSDTGFVYHSATHSSSSLSRYTTRERIPIELESQTDEILEDESSTHSLESSDSRRSASENNRGSFSGHDDVHNQHSEYLKPDYHEKFYPQYAPNLHYQRFYIAEEDLVIGIAAYQTSKFWYIIYNLCCFLTFGLVYLLTRWLPHLKVKLYGVKVPLAKAEWVVIENEFGEFVIQPIDRQWYNRPLSTVLPFENYPNPSYEPNDINLSHHHANEINPNVPILITFEYRYIKFIYSPLDDLFKTNNNWIDPDWVDLSTVSNGLTKGVQEDRELAFGKNQINLRMKTTSEILFNEVLHPFYVFQVFSIILWGIDEYYYYAACIFLISVLSIFDSLNEQKKVSRNLAEMSHFHCDVRVLRDKFWTTISSSELVPGDIYEVSDPNITILPCDSILLSSDCIVNESMLTGESVPVSKFPATEETMYQLCDDFQSTQISSFVSKSFLYNGTNIIRARIAPGQTAALAMVVRTGFSTTKGSLVRSMVFPKPTGFKFYRDSFKYIGFMSLIAIFGFCVSCVQFIKLGLDKKTMILRALDIITIVVPPALPATLTIGTNFALSRLKEKGIFCISPTRLNISGKIDVMCFDKTGTLTEDGLDVLGVQISEPNGVRGQKFGELLSDIRQVFPKFSLNDCSSPLDFKSRNFFMSLLTCHSLRSVDGNLLGDPLDFKMFQFTGWSFEEDFQKRAFHSLYEGRHEDDVFPENSEIIPAVVHPDSNNRENTFTDNDPHNFLGVVRSFEFLSELRRMSVIVKTNNDDVYWSFTKGAPEVISEICNKSTLPADFEEVLRCYTHNGYRVIACAGKTLPKRTWLYSQKVSREEVESNLEFLGFIIFQNKLKKETSETLKSLQDANIRTIMCTGDNILTAISVGREAGLIQCSRVYVPSINDTPLHGEPVIVWRDVNEPDKILDTKTLKPVKLGNNSVESLRECNYTLAVSGDVFRLLFRDENEIPEEYLNEILLNSSIYARMSPDEKHELMIQLQKLDYTVGFCGDGANDCGALKAADVGISLSEAEASVAAPFTSKIFNISCVLDVIREGRAALVTSFACFQYMSLYSAIQFITITILYSRGSNLGDFQFLYIDLLLIVPIAICMSWSKSYEKIDKKRPSANLVSPKILVPLLISVFLVFLFQFIPWIIVQKMSWYIKPIVGGDDAVQSSDNTVLFFVSNFQYILTAIVLSVGPPYREPMSKNFEFIVDITVSIGASLLLMTLDTESYLGKMLQLTPISNSFTMFIIVWVILNYYAQLYIPPSIKGWLKKKKSSKKYKLLIQEEMKLKEV |
| 6048 | sp|P53039|YIP1\_YEAST | MSFYNTSNNANNGGGFYQPSAQFAVPQGSMSFQNTVGSSNTGNDNNLGVAPDPLPVGILHALSTKGYPHEPPLLEEIGINFDHIITKTKMVLIPIRFGSGVPQEILNDSDLAGPLIFFLLFGLFLLMAGKVHFGYIYGVALFGTISLHNLSKLMSNNDTSTQTNLQFFNTASILGYCFLPLCFLSLLGIFHGLNNTTGYVVSVLFVIWSTWTSSGFLNSLLQLQNARLLIAYPLLIFYSVFALMVIFV |
| 6049 | sp|O95070|YIF1A\_HUMAN | MAYHSGYGAHGSKHRARAAPDPPPLFDDTSGGYSSQPGGYPATGADVAFSVNHLLGDPMANVAMAYGSSIASHGKDMVHKELHRFVSVSKLKYFFAVDTAYVAKKLGLLVFPYTHQNWEVQYSRDAPLPPRQDLNAPDLYIPTMAFITYVLLAGMALGIQKRFSPEVLGLCASTALVWVVMEVLALLLGLYLATVRSDLSTFHLLAYSGYKYVGMILSVLTGLLFGSDGYYVALAWTSSALMYFIVRSLRTAALGPDSMGGPVPRQRLQLYLTLGAAAFQPLIIYWLTFHLVR |
| 6050 | sp|P47100|YJ12B\_YEAST | MESQQLSQHSHISHGSACASVTSKEVHTNQDPLDVSASKTEECEKASTKANSQQTTTPASSAVPENPHHASPQTAQSHSPQNGPYPQQCMMTQNQANPSGWSFYGHPSMIPYTPYQMSPMYFPPGPQSQFPQYPSSVGTPLSTPSPESGNTFTDSSSADSDMTSTKKYVRPPPMLTSPNDFPNWVKTYIKFLQNSNLGGIIPTVNGKPVRQITDDELTFLYNTFQIFAPSQFLPTWVKDILSVDYTDIMKILSKSIEKMQSDTQEANDIVTLANLQYNGSTPADAFETKVTNIIDRLNNNGIHINNKVACQLIMRGLSGEYKFLRYTRHRHLNMTVAELFLDIHAIYEEQQGSRNSKPNYRRNPSDEKNDSRSYTNTTKPKVIARNPQKTNNSKSKTARAHNVSTSNNSPSTDNDSISKSTTEPIQLNNKHDLHLGQKLTESTVNHTNHSDDELPGHLLLDSGASRTLIRSAHHIHSASSNPDINVVDAQKRNIPINAIGDLQFHFQDNTKTSIKVLHTPNIAYDLLSLNELAAVDITACFTKNVLERSDGTVLAPIVKYGDFYWVSKKYLLPSNISVPTINNVHTSESTRKYPYPFIHRMLAHANAQTIRYSLKNNTITYFNESDVDWSSAIDYQCPDCLIGKSTKHRHIKGSRLKYQNSYEPFQYLHTDIFGPVHNLPKSAPSYFISFTDETTKFRWVYPLHDRREDSILDVFTTILAFIKNQFQASVLVIQMDRGSEYTNRTLHKFLEKNGITPCYTTTADSRAHGVAERLNRTLLDDCRTQLQCSGLPNHLWFSAIEFSTIVRNSLASPKSKKSARQHAGLAGLDISTLLPFGQPVIVNDHNPNSKIHPRGIPGYALHPSRNSYGYIIYLPSLKKTVDTTNYVILQGKESRLDQFNYDALTFDEDLNRLTASYQSFIASNEIQQSDDLNIESDHDFQSDIELHPEQPRNVLSKAVSPTDSTPPSTHTEDSKRVSKTNIRAPREVDPNISESNILPSKKRSSTPQISNIESTGSGGMHKLNVPLLAPMSQSNTHESSHASKSKDFRHSDSYSENETNHTNVPISSTGGTNNKTVPQISDQETEKRIIHRSPSIDASPPENNSSHNIVPIKTPTTVSEQNTEESIIADLPLPDLPPESPTEFPDPFKELPPINSRQTNSSLGGIGDSNAYTTINSKKRSLEDNETEIKVSRDTWNTKNMRSLEPPRSKKRIHLIAAVKAVKSIKPIRTTLRYDEAITYNKDIKEKEKYIEAYHKEVNQLLKMKTWDTDEYYDRKEIDPKRVINSMFIFNKKRDGTHKARFVARGDIQHPDTYDSGMQSNTVHHYALMTSLSLALDNNYYITQLDISSAYLYADIKEELYIRPPPHLGMNDKLIRLKKSLYGLKQSGANWYETIKSYLIQQCGMEEVRGWSCVFKNSQVTICLFVDDMVLFSKNLNSNKRIIEKLKMQYDTKIINLGESDEEIQYDILGLEIKYQRGKYMKLGMENSLTEKIPKLNVPLNPKGRKLSAPGQPGLYIDQQELELEEDDYKMKVHEMQKLIGLASYVGYKFRFDLLYYINTLAQHILFPSKQVLDMTYELIQFIWNTRDKQLIWHKSKPVKPTNKLVVISDASYGNQPYYKSQIGNIYLLNGKVIGGKSTKASLTCTSTTEAEIHAISESVPLLNNLSYLIQELDKKPITKGLLTDSKSTISIIISNNEEKFRNRFFGTKAMRLRDEVSGNHLHVCYIETKKNIADVMTKPLPIKTFKLLTNKWIH |
| 6051 | sp|P0C2J7|YH41B\_YEAST | MATPVRDETRNVIDDNISARIQSKVKTNDTVRQTPSSLRKVSIKDEQVKQYQRNLNRFKTILNGLKAEEEKLSETDDIQMLAEKLLKLGETIDKVENRIVDLVEKIQLLETNENNNILHEHIDATGTYYLFDTLTSTNKRFYPKDCVFDYRTNNVENIPILLNNFKKFIKKYQFDDVFENDIIEIDPRENEILCKIIKEGLGESLDIMNTNTTDIFRIIDGLKNKYRSLHGRDVRIRAWEKVLVDTTCRNSALLMNKLQKLVLMEKWIFSKCCQDCPNLKDYLQEAIMGTLHESLRNSVKQRLYNIPHNVGINHEEFLINTVIETVIDLSPIADDQIENSCMYCKSVFHCSINCKKKPNRELGLTRPISQKPIIYKVHRDNNNLSPVQNEQKSWNKTQKKSNKVYNSKKLVIIDTGSGVNITNDKTLLHNYEDSNRSTRFFGIGKNSSVSVKGYGYIKIKNGHNNTDNKCLLTYYVPEEESTIISCYDLAKKTKMVLSRKYTRLGNKIIKIKTKIVNGVIHVKMNELIERPSDDSKINAIKPTSSPGFKLNKRSITLEDAHKRMGHTGIQQIENSIKHNHYEESLDLIKEPNEFWCQTCKISKATKRNHYTGSMNNHSTDHEPGSSWCMDIFGPVSSSNADTKRYMLIMVDNNTRYCMTSTHFNKNAETILAQIRKNIQYVETQFDRKVREINSDRGTEFTNDQIEEYFISKGIHHILTSTQDHAANGRAERYIRTIVTDATTLLRQSNLRVKFWEYAVTSATNIRNCLEHKSTGKLPLKAISRQPVTVRLMSFLPFGEKGIIWNHNHKKLKPSGLPSIILCKDPNSYGYKFFIPSKNKIVTSDNYTIPNYTMDGRVRNTQNIYKSHQFSSHNDNEEDQIETVTNLCEALENYEDDNKPITRLEDLFTEEELSQIDSNAKYPSPSNNLEGDLDYVFSDVEESGDYDVESELSTTNTSISTDKNKILSNKDFNSELASTEISISEIDKKGLINTSHIDEDKYDEKVHRIPSIIQEKLVGSKNTIKINDENRISDRIRSKNIGSILNTGLSRCVDITDESITNKDESMHNAKPELIQEQFNKTNHETSFPKEGSIGTNVKFRNTDNEISLKTGDTSLPIKTLESINNHHSNDYSTNKVEKFEKENHHPPPIEDIVDMSDQTDMESNCQDGNNLKELKVTDKNVPTDNGTNVSPRLEQNIEASGSPVQTVNKSAFLNKEFSSLNMKRKRKRHDKNNSLTSYELERDKKRSKRNRVKLIPDNMETVSAQKIRAIYYNEAISKNPDLKEKHEYKQAYHKELQNLKDMKVFDVDVKYSRSEIPDNLIVPTNTIFTKKRNGIYKARIVCRGDTQSPDTYSVITTESLNHNHIKIFLMIANNRNMFMKTLDINHAFLYAKLEEEIYIPHPHDRRCVVKLNKALYGLKQSPKEWNDHLRQYLNGIGLKDNSYTPGLYQTEDKNLMIAVYVDDCVIAASNEQRLDEFINKLKSNFELKITGTLIDDVLDTDILGMDLVYNKRLGTIDLTLKSFINRMDKKYNEELKKIRKSSIPHMSTYKIDPKKDVLQMSEEEFRQGVLKLQQLLGELNYVRHKCRYDINFAVKKVARLVNYPHERVFYMIYKIIQYLVRYKDIGIHYDRDCNKDKKVIAITDASVGSEYDAQSRIGVILWYGMNIFNVYSNKSTNRCVSSTEAELHAIYEGYADSETLKVTLKELGEGDNNDIVMITDSKPAIQGLNRSYQQPKEKFTWIKTEIIKEKIKEKSIKLLKITGKGNIADLLTKPVSASDFKRFIQVLKNKITSQDILASTDY |
| 6052 | sp|P53093|YIP4\_YEAST | MSYGREDTTIEPDFIEPDAPLAASGGVADNIGGTMQNSGSRGTLDETVLQTLKRDVVEINSRLKQVVYPHFPSFFSPSDDGIGAADNDISANCDLWAPLAFIILYSLFVSHARSLFSSLFVSSWFILLVMALHLRLTKPHQRVSLISYISISGYCLFPQVLNALVSQILLPLAYHIGKQNRWIVRVLSLVKLVVMALCLMWSVAAVSWVTKSKTIIEIYPLALCLFGMAWLSTIL |
| 6053 | sp|P40009|YND1\_YEAST | MLIENTNDRFGIVIDAGSSGSRIHVFKWQDTESLLHATNQDSQSILQSVPHIHQEKDWTFKLNPGLSSFEKKPQDAYKSHIKPLLDFAKNIIPESHWSSCPVFIQATAGMRLLPQDIQSSILDGLCQGLKHPAEFLVEDCSAQIQVIDGETEGLYGWLGLNYLYGHFNDYNPEVSDHFTFGFMDMGGASTQIAFAPHDSGEIARHRDDIATIFLRSVNGDLQKWDVFVSTWLGFGANQARRRYLAQLINTLPENTNDYENDDFSTRNLNDPCMPRGSSTDFEFKDTIFHIAGSGNYEQCTKSIYPLLLKNMPCDDEPCLFNGVHAPRIDFANDKFIGTSEYWYTANDVFKLGGEYNFDKFSKSLREFCNSNWTQILANSDKGVYNSIPENFLKDACFKGNWVLNILHEGFDMPRIDVDAENVNDRPLFQSVEKVEERELSWTLGRILLYASGSILAGNDDFMVGIAPSERRTKLTGKKFIPGKLLESDQLRKQSSSLSNKGFLMWFAIICCIFYLIFHRSHIIRRRFSGLYNITKDFKTGIRRRLKFLRRSDPFSRLEEGELGTDVDGFKDVYRMKSSSMFDLGKSSATMQREHEPQRTASQSANLAPSNLRPAFSMADFSKFKDSRLYD |
| 6054 | sp|O43296|ZN264\_HUMAN | MAAAVLTDRAQVSVTFDDVAVTFTKEEWGQLDLAQRTLYQEVMLENCGLLVSLGCPVPKAELICHLEHGQEPWTRKEDLSQDTCPGDKGKPKTTEPTTCEPALSEGISLQGQVTQGNSVDSQLGQAEDQDGLSEMQEGHFRPGIDPQEKSPGKMSPECDGLGTADGVCSRIGQEQVSPGDRVRSHNSCESGKDPMIQEEENNFKCSECGKVFNKKHLLAGHEKIHSGVKPYECTECGKTFIKSTHLLQHHMIHTGERPYECMECGKAFNRKSYLTQHQRIHSGEKPYKCNECGKAFTHRSNFVLHNRRHTGEKSFVCTECGQVFRHRPGFLRHYVVHSGENPYECLECGKVFKHRSYLMWHQQTHTGEKPYECSECGKVFLESAALIHHYVIHTGEKPFECLECGKAFNHRSYLKRHQRIHTGEKPFVCSECGKAFTHCSTFILHKRAHTGEKPFECKECGKAFSNRKDLIRHFSIHTGEKPYECVECGKAFTRMSGLTRHKRIHSGEKPYECVECGKSFCWSTNLIRHAIIHTGEKPYKCSECGKAFSRSSSLTQHQRMHTGKNPISVTDVGRPFTSGQTSVTLRELLLGKDFLNVTTEANILPEETSSSASDQPYQRETPQVSSL |
| 6055 | sp|Q9U3F4|ZYX\_CAEEL | MGPPPPPPPPPLLPSGEILPSRKWKTEDAPRRNNHPAPAPPKPSRPTVDASALQHAAARLRKTGYNEPVRGDVENLSDGRLDRPHQQLPDGDRTYRANLQQLAQPKTRAEIPSPPTYSNQPRPLGDFHRDPNALSQFQQSREALLSSTSPTSNYSPINKFSSSTLTQYANKSPSPPSFGNSNSEATYVSPYSSKHSYPTNFRSYHKDDDYFNNTATTATTTTSSNSLNENNNSNKYGNKETVLQWSEPYDPSKIRRSQSPIRNAREMIHEYSTTNYVTEVQQPPPPPPDLYQRMTQARTFLQNSLAKQLRDEGLTESQKAANRNQTGALSASSSIPFDASQIVKNSYNGDEVDHLVHQMRTKLNQPADTSPSIVQYPRRQAPDSSRANYSATTSTSFSSSTTRKIMNINICVGCGKEITGDQPGCNAMNQIFHVDCFKCGQCSKTLAGASFYNIDDKPTCEGCYQNSLEKCTACNRAISDKLLRACGGVYHVNCFVCFSCKKSLDGIPFTLDKDNNVHCVPCFHDKFAPRCALCSKPIVPQDGEKESVRVVAMDKSFHVDCYKCEDCGMQLSSKLEGQGCYPIDNHLLCKTCNGNRLRVVSST |
| 6056 | sp|Q3YW59|ZNTA\_SHISS | MSTPDNHGKKAPQFAAFKPLTTVQNANDCCCDGACSSSPTLSENVSGTRYSWKVSGMDCAACARKVENAVRQLAGVNQVQVLFATEKLVVDADNDIRAQVESAVQKAGYSLRDEQAADEPQASRLKENLPLITLIVMMAISWGLEQFNHPFGQLAFIATTLVGLYPIARQALRLIKSGSYFAIETLMSVAAIGALFIGATAEAAMVLLLFLIGERLEGWAASRARQGVSALMALKPETATRLRNGEREEVAINSLRPGDVIEVAAGGRLPADGKLLSPFASFDESALTGESIPVERATGDKVPAGATSVDRLVTLEVLSEPGASAIDRILKLIEEAEERRAPIERFIDRFSRIYTPAIMAVALLVTLVPPLLFAASWQEWIYKGLTLLLIGCPCALVISTPAAITSGLAAAARRGALIKGGAALEQLGRVTQVAFDKTGTLTVGKPRVTAIHPATGISESELLTLAAAVEQGATHPLAQAIVREAQVAELAIPTAESQRALVGSGIEAQVNGERVLICAAGKHPADAFAGLINELESAGQTVVLVVRNDDVLGIIALQDTLRADAATAISELNALGVKGVILTGDNPRAAAAIAGELGLEFKAGLLPEDKVKAVTKLNQHAPLAMVGDGINDAPAMKAAAIGIAMGSGTDVALETADAALTHNHLRGLVQMIELARATHANIRQNITIALGLKGIFLVTTLLGMTGLWLAVLADTGATVLVTANALRLLRRR |
| 6057 | sp|P79762|ZP3\_CHICK | MQGGRVVLGLLCCLVAGVGSYTPWDISWAARGDPSAWSWGAEAHSRAVAGSHPVAVQCQEAQLVVTVHRDLFGTGRLINAADLTLGPAACKHSSLNAAHNTVTFAAGLHECGSVVQVTPDTLIYRTLINYDPSPASNPVIIRTNPAVIPIECHYPRRENVSSNAIRPTWSPFNSALSAEERLVFSLRLMSDDWSTERPFTGFQLGDILNIQAEVSTENHVPLRLFVDSCVAALSPDGDSSPHYAIIDFNGCLVDGRVDDTSSAFITPRPREDVLRFRIDVFRFAGDNRNLIYITCHLKVTPADQGPDPQNKACSFNKARNTWVPVEGSRDVCNCCETGNCEPPALSRRLNPMERWQSRRFRRDAGKEVAADVVIGPVLLSADPGAVGQQEEGGDGAAVMVPSVGTGLVCVAVAVALAAVGVAVGIARKGCTRTSAAV |
| 6058 | sp|P53785|ZP3\_MACRA | MELSYRLFICLLLWGSTELCYPQPFWLLQGGASRAETSVQPVLVECREATLLVTVSKDLFGTGKLIRAADLTLGPEACEPLVSMDTEDVVRFEVGLHECGSSMQVTDDALVYSTFLLHDPRPVGNLSIVRTNRAEIPIECRYPRQGNVSSQAILPTWLPFRTTVFSEEKLTFSLRLMEENWNAEKRSPTFHLGDAAHLQAEIHTGSHVPLRLFVDHCVATPTPDQNASPYHTIVDFHGCLVDGLTDASSAFKVPRPGPDTLQFTVDVFHFANDSRNMIYITCHLKAIPAEQEPDELNKACSFSKSSNSWFPVEGPADICQCCSKGDCGTPSHSRRQPHVVSQWSRSASRNRRHVTEEADITVGPLIFLDRSADYEVEQWALPADTSVLLLGIGLAVVASLTLTAVILIFTRRWRTASRPVSASE |
| 6059 | sp|P0CL69|ZN703\_MOUSE | MSDSPAGSNPRTPESSGSGGGSSSGGGGGKRPAVPAVVSLLPPADPLRQANRLPIRVLKMLSAHTGHLLHPEYLQPLSSTPVSPIELDAKKSPLALLAQTCSQIGKPDPPPSSKLNSVAAAAANGLGSEKDPSRSAPGAASAAAALKQLGDSPAEDKSSFKPYSKGSGGGDSRKDSGSSSVSSTTSSSSSSPGDKAGFRVPSAACPPFPPHGASVSTSSNSSSPGGSRGGSPHHSDCKNGGGGAGELDKKEQEAKPSPEPAAGSRGSGGDSAHGGPEATASGRKSEPPSALVGAGHVAPVSPYKPGHSVFPLPPSSIGYHGSIVGAYAGYPSQFVPGLDPSKSGLVGGQLSGGLGLPPGKPPSSSPLTGASPPSFLQGLCRDPYCLGGYHSASHLGGSSCSTCSAHDPTGPSLKASGYPLVYPGHPLQPAALSSSAAQAALPGHPLYTYGFMLQNEPLPHSCNWVAASGPCDKRFATSEELLSHLRTHTALPGAEKLLAAYPGASSLGSAAAAAAAAASCHLHLPPPAAPGSPGSLSLRSPHTLGLSRYHPYGKSHLSTAGGLAVPSLPTAGPYYSPYALYGQRLASASALGYQ |
| 6060 | sp|Q3KQV3|ZN792\_HUMAN | MAAAALRDPAQGCVTFEDVTIYFSQEEWVLLDEAQRLLYCDVMLENFALIASLGLISFRSHIVSQLEMGKEPWVPDSVDMTSAMARGAYGRPGSDFCHGTEGKDLPSEHNVSVEGVAQDRSPEATLCPQKTCPCDICGLRLKDILHLAEHQTTHPRQKPFVCEAYVKGSEFSANLPRKQVQQNVHNPIRTEEGQASPVKTCRDHTSDQLSTCREGGKDFVATAGFLQCEVTPSDGEPHEATEGVVDFHIALRHNKCCESGDAFNNKSTLVQHQRIHSRERPYECSKCGIFFTYAADLTQHQKVHNRGKPYECCECGKFFSQHSSLVKHRRVHTGESPHVCGDCGKFFSRSSNLIQHKRVHTGEKPYECSDCGKFFSQRSNLIHHKRVHTGRSAHECSECGKSFNCNSSLIKHWRVHTGERPYKCNECGKFFSHIASLIQHQIVHTGERPHGCGECGKAFSRSSDLMKHQRVHTGERPYECNECGKLFSQSSSLNSHRRLHTGERPYQCSECGKFFNQSSSLNNHRRLHTGERPYECSECGKTFRQRSNLRQHLKVHKPDRPYECSECGKAFNQRPTLIRHQKIHIRERSMENVLLPCSQHTPEISSENRPYQGAVNYKLKLVHPSTHPGEVP |
| 6061 | sp|Q9Y4E5|ZN451\_HUMAN | MGDPGSEIIESVPPAGPEASESTTDENEDDIQFVSEGPLRPVLEYIDLVSSDDEEPSTSYTDENIKRKDHIDYQKDKVALTLARLARHVEVEKQQKEEKNRAFREKIDFQHAHGLQELEFIRGHSDTEAARLCVDQWLKMPGLKTGTINCGTKSSFRRGGHTWVSGKPILCPIMHCNKEFDNGHLLLGHLKRFDHSPCDPTITLHGPFFSSFACVVCYKKFVTQQQYRDHLFDKEATDDGHNNNLLPQIIQCFACPNCFLLFSRKEECSKHMSGKNHFHQSFKLGDNKGIAHPISFPSFAKKLLISLCKDVPFQVKCVACHKTLRSHMELTAHFRVHCRNAGPVAVAEKSITQVAEKFILRGYCPDCNQVFVDETSTQNHKQNSGHKVRVINSVEESVLLYCHSSEGNKDPSSDLHLLLDQSKFSSLKRTMSIKESSSLECIAIPKKKMNLKDKSHEGVACVQKEKSVVKTWFCECNQRFPSEDAVEKHVFSANTMGYKCVVCGKVCDDSGVIRLHMSRIHGGAHLNNFLFWCRTCKKELTRKDTIMAHVTEFHNGHRYFYEMDEVEGETLPSSSTTLDNLTANKPSSAITVIDHSPANSSPRGKWQCRICEDMFDSQEYVKQHCMSLASHKFHRYSCAHCRKPFHKIETLYRHCQDEHDNEIKIKYFCGLCDLIFNVEEAFLSHYEEHHSIDYVFVSEKTETSIKTEDDFPVIETSNQLTCGCRESYICKVNRKEDYSRCLQIMLDKGKLWFRCSLCSATAQNLTDMNTHIHQVHKEKSDEEEQQYVIKCGTCTKAFHDPESAQQHFHRKHCFLQKPSVAHFGSEKSNLYKFTASASHTERKLKQAINYSKSLDMEKGVENDLSYQNIEEEIVELPDLDYLRTMTHIVFVDFDNWSNFFGHLPGHLNQGTFIWGFQGGNTNWKPPLNCKIYNYLNRIGCFFLHPRCSKRKDAADFAICMHAGRLDEQLPKQIPFTILSGDQGFLELENQFKKTQRPAHILNPHHLEGDMMCALLNSISDTTKECDSDDNMGAKNTSIGEEFISTEDVELEEAIRRSLEEM |
| 6062 | sp|Q8TF50|ZN526\_HUMAN | MAEVVAEVAEMPTQMSPGAVEMSTPMSAEMMEMSTEVTEMTPGEALASSLFFQHHQFMCSECGSLYNTLEEVLSHQEQHMLAVSEEEALTTQNVGLEPELVPGAEGPFQCGECSQLILSPGELLAHQDAHLRESANQIQYQCWDCQELFPSPELWVAHRKAQHLSATVAEPPVPPPLPPPTPLPPPSPPSEVKMEPYECPECSTLCATPEEFLEHQGTHFDSLEKEERNGLEEEEEDDEEDEEDDEEMEDEEAMAEVGDDAVGGDESTAGWAQGCGDCPQHQPSAGARRQHRRTAHSPASATHPFHCSQCQRSFSSANRLQAHGRAHVGGTHECTTCSKVFKKAASLEQHLRLHRGEARYLCVDCGRGFGTELTLVAHRRAHTANPLHRCRCGKTFSNMTKFLYHRRTHAGKSGAPPTGATAPPAPAEPTPPPPPPAPPAQLPCPQCSKSFASASRLSRHRRAVHGPPERRHRCGVCGKGFKKLIHVRNHLRTHTGERPFQCHSCGKTFASLANLSRHQLTHTGARPYQCLDCGKRFTQSSNLQQHRRLHLRPVAFARAPRLPITGLYNKSPYYCGTCGRWFRAMAGLRLHQRVHARARTLTLQPPRSPSPAPPPPPEPQQTIMCTELGETIAIIETSQPLALEDTLQLCQAALGASEAGGLLQLDTAFV |
| 6063 | sp|Q9SVY5|ZRK1\_ARATH | MKKQYLKSGSGTRKEKDKAKRWFLDNGSIFLRELVADCNGKSIPIRSFSPEQILKATNNFDSSCFVSQDVYYKWYRGEIEDRSYMIKRFSEDEITGKRHRVKEVYNDIVLSARMSNHSNFLQLLGCCLEFPFPVLVFEFAEHGAMNQRGGVIVNGEESLLPWSVRLKIGKEIANAVTYLHTAFPKIIIHRDVKPMHVFLDKNWTAKLSDLSFSISLPEGKSRIEAEWVLGTFGYIDPLYHKTCFVTEYTDVYSFGICLLVIITGKPAIMTISDGDLQGILSLVRELCENGKLDEVIDPRLMKDITSGQRLQVEACVVLALRCCKERDEDRPKMIQVAKELKQIEASLKNSS |
| 6064 | sp|P51814|ZNF41\_HUMAN | MAANGDSPPWSPALAAEGRGSSCEVRRERTPEARIHSVKRYPDLSPGPKGRSSADHAALNSIVSLQASVSFEDVTVDFSKEEWQHLDPAQRRLYWDVTLENYSHLLSVGYQIPKSEAAFKLEQGEGPWMLEGEAPHQSCSGEAIGKMQQQGIPGGIFFHCERFDQPIGEDSLCSILEELWQDNDQLEQRQENQNNLLSHVKVLIKERGYEHKNIEKIIHVTTKLVPSIKRLHNCDTILKHTLNSHNHNRNSATKNLGKIFGNGNNFPHSPSSTKNENAKTGANSCEHDHYEKHLSHKQAPTHHQKIHPEEKLYVCTECVMGFTQKSHLFEHQRIHAGEKSRECDKSNKVFPQKPQVDVHPSVYTGEKPYLCTQCGKVFTLKSNLITHQKIHTGQKPYKCSECGKAFFQRSDLFRHLRIHTGEKPYECSECGKGFSQNSDLSIHQKTHTGEKHYECNECGKAFTRKSALRMHQRIHTGEKPYVCADCGKAFIQKSHFNTHQRIHTGEKPYECSDCGKSFTKKSQLHVHQRIHTGEKPYICTECGKVFTHRTNLTTHQKTHTGEKPYMCAECGKAFTDQSNLIKHQKTHTGEKPYKCNGCGKAFIWKSRLKIHQKSHIGERHYECKDCGKAFIQKSTLSVHQRIHTGEKPYVCPECGKAFIQKSHFIAHHRIHTGEKPYECSDCGKCFTKKSQLRVHQKIHTGEKPNICAECGKAFTDRSNLITHQKIHTREKPYECGDCGKTFTWKSRLNIHQKSHTGERHYECSKCGKAFIQKATLSMHQIIHTGKKPYACTECQKAFTDRSNLIKHQKMHSGEKRYKASD |
| 6065 | sp|Q8NDQ6|ZN540\_HUMAN | MAHALVTFRDVAIDFSQKEWECLDTTQRKLYRDVMLENYNNLVSLGYSGSKPDVITLLEQGKEPCVVARDVTGRQCPGLLSRHKTKKLSSEKDIHEISLSKESIIEKSKTLRLKGSIFRNEWQNKSEFEGQQGLKERSISQKKIVSKKMSTDRKRPSFTLNQRIHNSEKSCDSHLVQHGKIDSDVKHDCKECGSTFNNVYQLTLHQKIHTGEKSCKCEKCGKVFSHSYQLTLHQRFHTGEKPYECQECGKTFTLYPQLNRHQKIHTGKKPYMCKKCDKGFFSRLELTQHKRIHTGKKSYECKECGKVFQLIFYFKEHERIHTGKKPYECKECGKAFSVCGQLTRHQKIHTGVKPYECKECGKTFRLSFYLTEHRRTHAGKKPYECKECGKSFNVRGQLNRHKTIHTGIKPFACKVCEKAFSYSGDLRVHSRIHTGEKPYECKECGKAFMLRSVLTEHQRLHTGVKPYECKECGKTFRVRSQISLHKKIHTDVKPYKCVRCGKTFRFGFYLTEHQRIHTGEKPYKCKECGKAFIRRGNLKEHLKIHSGLKPYDCKECGKSFSRRGQFTEHQKIHTGVKPYKCKECGKAFSRSVDLRIHQRIHTGEKPYECKQCGKAFRLNSHLTEHQRIHTGEKPYECKVCRKAFRQYSHLYQHQKTHNVI |
| 6066 | sp|Q6ZNA4|RN111\_HUMAN | MSQWTPEYNELYTLKVDMKSEIPSDAPKTQESLKGILLHPEPIGAAKSFPAGVEMINSKVGNEFSHLCDDSQKQEKEMNGNQQEQEKSLVVRKKRKSQQAGPSYVQNCVKENQGILGLRQHLGTPSDEDNDSSFSDCLSSPSSSLHFGDSDTVTSDEDKEVSVRHSQTILNAKSRSHSARSHKWPRTETESVSGLLMKRPCLHGSSLRRLPCRKRFVKNNSSQRTQKQKERILMQRKKREVLARRKYALLPSSSSSSENDLSSESSSSSSTEGEEDLFVSASENHQNNPAVPSGSIDEDVVVIEASSTPQVTANEEINVTSTDSEVEIVTVGESYRSRSTLGHSRSHWSQGSSSHASRPQEPRNRSRISTVIQPLRQNAAEVVDLTVDEDEPTVVPTTSARMESQATSASINNSNPSTSEQASDTASAVTSSQPSTVSETSATLTSNSTTGTSIGDDSRRTTSSAVTETGPPAMPRLPSCCPQHSPCGGSSQNHHALGHPHTSCFQQHGHHFQHHHHHHHTPHPAVPVSPSFSDPACPVERPPQVQAPCGANSSSGTSYHEQQALPVDLSNSGIRSHGSGSFHGASAFDPCCPVSSSRAAIFGHQAAAAAPSQPLSSIDGYGSSMVAQPQPQPPPQPSLSSCRHYMPPPYASLTRPLHHQASACPHSHGNPPPQTQPPPQVDYVIPHPVHAFHSQISSHATSHPVAPPPPTHLASTAAPIPQHLPPTHQPISHHIPATAPPAQRLHPHEVMQRMEVQRRRMMQHPTRAHERPPPHPHRMHPNYGHGHHIHVPQTMSSHPRQAPERSAWELGIEAGVTAATYTPGALHPHLAHYHAPPRLHHLQLGALPLMVPDMAGYPHIRYISSGLDGTSFRGPFRGNFEELIHLEERLGNVNRGASQGTIERCTYPHKYKKVTTDWFSQRKLHCKQDGEEGTEEDTEEKCTICLSILEEGEDVRRLPCMHLFHQVCVDQWLITNKKCPICRVDIEAQLPSES |
| 6067 | sp|P30850|RNB\_ECOLI | MFQDNPLLAQLKQQLHSQTPRAEGVVKATEKGFGFLEVDAQKSYFIPPPQMKKVMHGDRIIAVIHSEKERESAEPEELVEPFLTRFVGKVQGKNDRLAIVPDHPLLKDAIPCRAARGLNHEFKEGDWAVAEMRRHPLKGDRSFYAELTQYITFGDDHFVPWWVTLARHNLEKEAPDGVATEMLDEGLVREDLTALDFVTIDSASTEDMDDALFAKALPDDKLQLIVAIADPTAWIAEGSKLDKAAKIRAFTNYLPGFNIPMLPRELSDDLCSLRANEVRPVLACRMTLSADGTIEDNIEFFAATIESKAKLVYDQVSDWLENTGDWQPESEAIAEQVRLLAQICQRRGEWRHNHALVFKDRPDYRFILGEKGEVLDIVAEPRRIANRIVEEAMIAANICAARVLRDKLGFGIYNVHMGFDPANADALAALLKTHGLHVDAEEVLTLDGFCKLRRELDAQPTGFLDSRIRRFQSFAEISTEPGPHFGLGLEAYATWTSPIRKYGDMINHRLLKAVIKGETATRPQDEITVQMAERRRLNRMAERDVGDWLYARFLKDKAGTDTRFAAEIVDISRGGMRVRLVDNGAIAFIPAPFLHAVRDELVCSQENGTVQIKGETVYKVTDVIDVTIAEVRMETRSIIARPVA |
| 6068 | sp|Q12224|RLM1\_YEAST | MGRRKIEIQRISDDRNRAVTFIKRKAGLFKKAHELSVLCQVDIAVIILGSNNTFYEFSSVDTNDLIYHYQNDKNLLHEVKDPSDYGDFHKSASVNINQDLLRSSMSNKPSKSNVKGMNQSENDDDENNDEDDDDHGNFERNSNMHSNKKASDKNIPSAHMKLLSPTALISKMDGSEQNKRHPENALPPLQHLKRLKPDPLQISRTPQQQQQQNISRPYHSSMYNLNQPSSSSSSPSTMDFPKLPSFQNSSFNGRPPPISISPNKFSKPFTNASSRTPKQEHKINNSGSNNNDNSNYTQSPSNSLEDSIQQTVKARRKLSARPVLRVRIPNNNFSSNSAIPSEPSSASSTSANGNSMGSSQIMKENKTSRSSKISPLSASASGPLTLQKGNNGRMVIKLPNANAPNGSNNGNGSNNNNHPYPFGSGSSPLFSATQPYIATPLQPSNIPGGPFQQNTSFLAQRQTQQYQQMSFKKQSQTVPLTTTLTGRPPSTFSGPETSNGPPTGSLPSKFVHDLMSNSPNVSSISMFPDWSMGPNSAKPGNTNNPGTFPPVQTAVNNGNSSNISSTNNTNNNNNNNNNNSSNNNSNNGNDNNSNNSNNSYYSNNEDAPVNGAAISEHTTDGDSNNQSNSSTYDAAATAYNGNTGLTPYINTAQTPLGTKFFNFSTDISGEKNSSKI |
| 6069 | sp|Q9SR62|RLPH2\_ARATH | MAQKPRTVICVGDIHGYISKLNNLWLNLQSAIDPSDFSSALVIFLGDYCDRGPETRKVIDFLISLPEKHPDQTHVFLAGNHDFAFSGFLGLLPRPSDGSDLKDTWKEYSKSEETEGWYTGEGFEDMHLQGRRWAGKIKATFNSVKGMAYKGSIYDAGSTFESYGVPHGSSDLMKAVPESHKKFLTNMVWVHEEDDVCIETEEGLKHCKLIAVHAGLEKGNNVEEQLKLLRAKDTSISKIQHLSGRKNVWDIPQELDDKHTVVVSGHHGKLHIDGMRLIIDEGGGFPDKPVAAIVLPSKKIIRDTDNLSS |
| 6070 | sp|P0A9J0|RNG\_ECOLI | MTAELLVNVTPSETRVAYIDGGILQEIHIEREARRGIVGNIYKGRVSRVLPGMQAAFVDIGLDKAAFLHASDIMPHTECVAGEEQKQFTVRDISELVRQGQDLMVQVVKDPLGTKGARLTTDITLPSRYLVFMPGASHVGVSQRIESESERERLKKVVAEYCDEQGGFIIRTAAEGVGEAELASDAAYLKRVWTKVMERKKRPQTRYQLYGELALAQRVLRDFADAELDRIRVDSRLTYEALLEFTSEYIPEMTSKLEHYTGRQPIFDLFDVENEIQRALERKVELKSGGYLIIDQTEAMTTVDINTGAFVGHRNLDDTIFNTNIEATQAIARQLRLRNLGGIIIIDFIDMNNEDHRRRVLHSLEQALSKDRVKTSVNGFSALGLVEMTRKRTRESIEHVLCNECPTCHGRGTVKTVETVCYEIMREIVRVHHAYDSDRFLVYASPAVAEALKGEESHSLAEVEIFVGKQVKVQIEPLYNQEQFDVVMM |
| 6071 | sp|Q9BY78|RNF26\_HUMAN | MEAVYLVVNGLGLVLDVLTLVLDLNFLLVSSLLASLAWLLAFVYNLPHTVLTSLLHLGRGVLLSLLALIEAVVRFTCGGLQALCTLLYSCCSGLESLKLLGHLASHGALRSREILHRGVLNVVSSGHALLRQACDICAIAMSLVAYVINSLVNICLIGTQNLFSLVLALWDAVTGPLWRMTDVVAAFLAHISSSAVAMAILLWTPCQLALELLASAARLLASFVLVNLTGLVLLACVLAVTVTVLHPDFTLRLATQALSQLHARPSYHRLREDVMRLSRLALGSEAWRRVWSRSLQLASWPNRGGAPGAPQGDPMRVFSVRTRRQDTLPEAGRRSEAEEEEARTIRVTPVRGRERLNEEEPPGGQDPWKLLKEQEERKKCVICQDQSKTVLLLPCRHLCLCQACTEILMRHPVYHRNCPLCRRGILQTLNVYL |
| 6072 | sp|O15514|RPB4\_HUMAN | MAAGGSDPRAGDVEEDASQLIFPKEFETAETLLNSEVHMLLEHRKQQNESAEDEQELSEVFMKTLNYTARFSRFKNRETIASVRSLLLQKKLHKFELACLANLCPETAEESKALIPSLEGRFEDEELQQILDDIQTKRSFQY |
| 6073 | sp|P19388|RPAB1\_HUMAN | MDDEEETYRLWKIRKTIMQLCHDRGYLVTQDELDQTLEEFKAQSGDKPSEGRPRRTDLTVLVAHNDDPTDQMFVFFPEEPKVGIKTIKVYCQRMQEENITRALIVVQQGMTPSAKQSLVDMAPKYILEQFLQQELLINITEHELVPEHVVMTKEEVTELLARYKLRENQLPRIQAGDPVARYFGIKRGQVVKIIRPSETAGRYITYRLVQ |
| 6074 | sp|P0A776|RPPH\_ECOLI | MIDDDGYRPNVGIVICNRQGQVMWARRFGQHSWQFPQGGINPGESAEQAMYRELFEEVGLSRKDVRILASTRNWLRYKLPKRLVRWDTKPVCIGQKQKWFLLQLVSGDAEINMQTSSTPEFDGWRWVSYWYPVRQVVSFKRDVYRRVMKEFASVVMSLQENTPKPQNASAYRRKRG |
| 6075 | sp|Q9NR31|SAR1A\_HUMAN | MSFIFEWIYNGFSSVLQFLGLYKKSGKLVFLGLDNAGKTTLLHMLKDDRLGQHVPTLHPTSEELTIAGMTFTTFDLGGHEQARRVWKNYLPAINGIVFLVDCADHSRLVESKVELNALMTDETISNVPILILGNKIDRTDAISEEKLREIFGLYGQTTGKGNVTLKELNARPMEVFMCSVLKRQGYGEGFRWLSQYID |
| 6076 | sp|Q61672|S29A2\_MOUSE | MARGNAPRDSYHLVGISFFILGLGTLLPWNFFITAIPYFQGRLAGTNSSAETMGTNHTSPTDTFNFNNWVTLLSQLPLLLFTLLNSFLYQCIPESVRILGSLLAILLLFALTAALVKVDLSPGLFFSVTMASVWFINSFCAVLQGSLFGQLGTMPSTYSTLFLSGQGLAGIFAALAMLMSLASGVDAQTSALGYFITPCVGILLSIVCYLSLPHLKFARYYLTEKLSQAPTQELETKAELLQADEKNGVPISPQQASPTLDLDPEKEPEPEEPQKPGKPSVFVVFRKIWLTALCLVLVFTVTLSVFPAITAMVTTSSNSPGKWGLFFNPICCFLLFNVMDWLGRSLTSYFLWPDEDSQQLLPLLVCLRFLFVPLFMLCHVPQHARLPIIFRQDAYFITFMLLFAVSNGYLVSLTMCLAPRQVLPHEREVAGALMTFFLALGLSCGASLSFLFKALL |
| 6077 | sp|Q62866|S19A1\_RAT | MVPTGQVAEKQACEEPRQDRELKSWRWLVFYLCFFGFMAQLRPGESFITPYLLERNFTKEQVTNEIIPMLPYSHLAVLVPIFLLTDYLRYKPVLVLQCLSFVCVWLLLLLGTSVVHMQLMEVFYSITMAARIAYSSYIFSLVQPSRYQRMASYSRAAVLLGVFISSVLGQVLVTLGGISTYMLNCISLGFILFSLSLSLFLKRPKRSLFFNRSALVQGALPCELDQMHPGPGRPEPRKLERMLGTCRDSFLVRMLSELVKNVRQPQLRLWCLWWVFNSAGYYLITYYVHVLWKITDSRLNYNGAVDAASTLLSAITAFTAGFVNIRWALWSKLVIASVIAIQAGLVFCMFQIPDIWVCYVTFVLFRGAYQFLVPIATFQIASSLSKELCALVFGINTFLATALKTSITLVVSDKRGLGLQVHQQFRIYFMYFLTLSIICLAWAGLDGLRYYRRGRHQPLAQAQALSPLEDSVQAISLQDGDLRRPQPSAPQLLPEDGSVEDGRADLRVEAKA |
| 6078 | sp|Q9V422|RYK2\_DROME | MESVNKCGKSASTRNCTVKMSRKMWVLSLLALAALQLHSGSEVAAHLNVFLNPVEVMRLLGVSAEVYYVREGHINNYALNFIVPVPANVKDISFTWQSLAGRGLPYSINVVSSDQEVLPRPAINVSHSGEIPTTIQTWSIALKCSGLKAAEVDVTVSLEVVLNRSLNNVTHLVFRRKKICLMNDSAEDLSEDVDDPQLLETVMLPPTGLITLVVGVSVAMGSVCLLLMIAYCVKGAANKRQHHQHGGQPMRTSSFQRLNTHPPCQSSMGSAAYMTPSIIAPIHGSSLPRKVPVSVEQQHPEELHRRISELTVERCRVRLSSLLQEGTFGRVYRGTYNDTQDVLVKTVAQHASQMQVLLLLQEGMLLYGASHPGILSVLGVSIEDHTTPFVLYPALNNTRNLKQFLLDPACARTVTTIQIVMMASQLSMALDHLHSHGVVHKDIATRNCVIDDQLRVKLSDSSLSRDLFPSDYNCLGDSENRPVKWMSLEALQHKQFSEASDSWAFGVLMWELCTSAKQPYAEVDPFEMEHYLKDGYRLAQPFNCPDELFTIMAYCWALLPAERPTFAQLQSCLSEFYSQITRYV |
| 6079 | sp|Q6PCB7|S27A1\_HUMAN | MRAPGAGAASVVSLALLWLLGLPWTWSAAAALGVYVGSGGWRFLRIVCKTARRDLFGLSVLIRVRLELRRHQRAGHTIPRIFQAVVQRQPERLALVDAGTGECWTFAQLDAYSNAVANLFRQLGFAPGDVVAIFLEGRPEFVGLWLGLAKAGMEAALLNVNLRREPLAFCLGTSGAKALIFGGEMVAAVAEVSGHLGKSLIKFCSGDLGPEGILPDTHLLDPLLKEASTAPLAQIPSKGMDDRLFYIYTSGTTGLPKAAIVVHSRYYRMAAFGHHAYRMQAADVLYDCLPLYHSAGNIIGVGQCLIYGLTVVLRKKFSASRFWDDCIKYNCTVVQYIGEICRYLLKQPVREAERRHRVRLAVGNGLRPAIWEEFTERFGVRQIGEFYGATECNCSIANMDGKVGSCGFNSRILPHVYPIRLVKVNEDTMELLRDAQGLCIPCQAGEPGLLVGQINQQDPLRRFDGYVSESATSKKIAHSVFSKGDSAYLSGDVLVMDELGYMYFRDRSGDTFRWRGENVSTTEVEGVLSRLLGQTDVAVYGVAVPGVEGKAGMAAVADPHSLLDPNAIYQELQKVLAPYARPIFLRLLPQVDTTGTFKIQKTRLQREGFDPRQTSDRLFFLDLKQGHYLPLNEAVYTRICSGAFAL |
| 6080 | sp|Q01887|RYK\_MOUSE | MRAGRGGVPGSGGLRAPPPPLLLLLLAMLPAAAPRSPALAAAPAGPSVSLYLSEDEVRRLLGLDAELYYVRNDLISHYALSFNLLVPSETNFLHFTWHAKSKVEYKLGFQVDNFVAMGMPQVNISAQGEVPRTLSVFRVELSCTGKVDSEVMILMQLNLTVNSSKNFTVLNFKRRKMCYKKLEEVKTSALDKNTSRTIYDPVHAAPTTSTRVFYISVGVCCAVIFLVAIILAVLHLHSMKRIELDDSISASSSSQGLSQPSTQTTQYLRADTPNNATPITSSSGYPTLRIEKNDLRSVTLLEAKAKVKDIAISRERITLKDVLQEGTFGRIFHGILVDEKDPNKEKQTFVKTVKDQASEVQVTMMLTESCKLRGLHHRNLLPITHVCIEEGEKPMVVLPYMNWGNLKLFLRQCKLVEANNPQAISQQDLVHMAIQIACGMSYLARREVIHRDLAARNCVIDDTLQVKITDNALSRDLFPMDYHCLGDNENRPVRWMALESLVNNEFSSASDVWAFGVTLWELMTLGQTPYVDIDPFEMAAYLKDGYRIAQPINCPDELFAVMACCWALDPEERPKFQQLVQCLTEFHAALGAYV |
| 6081 | sp|Q92622|RUBIC\_HUMAN | MRPEGAGMELGGGEERLPEESRREHWQLLGNLKTTVEGLVSTNSPNVWSKYGGLERLCRDMQSILYHGLIRDQACRRQTDYWQFVKDIRWLSPHSALHVEKFISVHENDQSSADGASERAVAELWLQHSLQYHCLSAQLRPLLGDRQYIRKFYTDAAFLLSDAHVTAMLQCLEAVEQNNPRLLAQIDASMFARKHESPLLVTKSQSLTALPSSTYTPPNSYAQHSYFGSFSSLHQSVPNNGSERRSTSFPLSGPPRKPQESRGHVSPAEDQTIQAPPVSVSALARDSPLTPNEMSSSTLTSPIEASWVSSQNDSPGDASEGPEYLAIGNLDPRGRTASCQSHSSNAESSSSNLFSSSSSQKPDSAASSLGDQEGGGESQLSSVLRRSSFSEGQTLTVTSGAKKSHIRSHSDTSIASRGAPESCNDKAKLRGPLPYSGQSSEVSTPSSLYMEYEGGRYLCSGEGMFRRPSEGQSLISYLSEQDFGSCADLEKENAHFSISESLIAAIELMKCNMMSQCLEEEEVEEEDSDREIQELKQKIRLRRQQIRTKNLLPMYQEAEHGSFRVTSSSSQFSSRDSAQLSDSGSADEVDEFEIQDADIRRNTASSSKSFVSSQSFSHCFLHSTSAEAVAMGLLKQFEGMQLPAASELEWLVPEHDAPQKLLPIPDSLPISPDDGQHADIYKLRIRVRGNLEWAPPRPQIIFNVHPAPTRKIAVAKQNYRCAGCGIRTDPDYIKRLRYCEYLGKYFCQCCHENAQMAIPSRVLRKWDFSKYYVSNFSKDLLIKIWNDPLFNVQDINSALYRKVKLLNQVRLLRVQLCHMKNMFKTCRLAKELLDSFDTVPGHLTEDLHLYSLNDLTATRKGELGPRLAELTRAGATHVERCMLCQAKGFICEFCQNEDDIIFPFELHKCRTCEECKACYHKACFKSGSCPRCERLQARREALARQSLESYLSDYEEEPAEALALEAAVLEAT |
| 6082 | sp|Q96LT4|SAMD8\_HUMAN | MAGPNQLCIRRWTTKHVAVWLKDEGFFEYVDILCNKHRLDGITLLTLTEYDLRSPPLEIKVLGDIKRLMLSVRKLQKIHIDVLEEMGYNSDSPMGSMTPFISALQSTDWLCNGELSHDCDGPITDLNSDQYQYMNGKNKHSVRRLDPEYWKTILSCIYVFIVFGFTSFIMVIVHERVPDMQTYPPLPDIFLDSVPRIPWAFAMTEVCGMILCYIWLLVLLLHKHRSILLRRLCSLMGTVFLLRCFTMFVTSLSVPGQHLQCTGKIYGSVWEKLHRAFAIWSGFGMTLTGVHTCGDYMFSGHTVVLTMLNFFVTEYTPRSWNFLHTLSWVLNLFGIFFILAAHEHYSIDVFIAFYITTRLFLYYHTLANTRAYQQSRRARIWFPMFSFFECNVNGTVPNEYCWPFSKPAIMKRLIG |
| 6083 | sp|G5EGT9|RYK\_CAEEL | MILRYLIFFAQLWALCLANVNMFISKEEMNRTFGVKAELNYIEMGNVSSYSTKFHYRVMANIDYLSFTWNAVGIVHYEVYVESDDSSVLPIVRIPLKGTVPESLQDFTVEYRCAGHRSGQFAVSLYFTFKYGNKEPLKVKLRQEKICASRDGRRGLNGGYEGHEVDDTDSIDKAFFVIICIAAAFLLIVAATLICYFKRSKKEDMIPTRLPTSFRNSLKSTKSAQPFLLSTPRDGPPTLSAISSAPCSSSSASGNSIIPSKPRNIDVRRALLQLYQDRDAFQSLPLDMEGTFGEVRYAIWRQVDDVLNGDVDDEEDTFCNQEAVYTKTLKNNASPIQLDRFLSDALLFYNITPHQNLSQVACVASFGRFDRPETVTDFPLVCYRHQGFGNLKKFLTICRHGDKTKGAQTLRTHQLVSLATQVSSAVAHIHKYRIVHNDIAARNCLIAEVNGRLQVQLCDSALSRDLFPADYHCLGDNENRPLKWMSPEAIANELYSSAADVWSLGVLLWELMSLGGSPHAEIDPEEVYTMILKGKRLQQPNNCPDQLYEVMLCCWRVLSEDRPSSEQVVHGLRDFNIQLSQYI |
| 6084 | sp|Q9NY26|S39A1\_HUMAN | MGPWGEPELLVWRPEAVASEPPVPVGLEVKLGALVLLLVLTLLCSLVPICVLRRPGANHEGSASRQKALSLVSCFAGGVFLATCLLDLLPDYLAAIDEALAALHVTLQFPLQEFILAMGFFLVLVMEQITLAYKEQSGPSPLEETRALLGTVNGGPQHWHDGPGVPQASGAPATPSALRACVLVFSLALHSVFEGLAVGLQRDRARAMELCLALLLHKGILAVSLSLRLLQSHLRAQVVAGCGILFSCMTPLGIGLGAALAESAGPLHQLAQSVLEGMAAGTFLYITFLEILPQELASSEQRILKVILLLAGFALLTGLLFIQI |
| 6085 | sp|Q9H2H9|S38A1\_HUMAN | MMHFKSGLELTELQNMTVPEDDNISNDSNDFTEVENGQINSKFISDRESRRSLTNSHLEKKKCDEYIPGTTSLGMSVFNLSNAIMGSGILGLAFALANTGILLFLVLLTSVTLLSIYSINLLLICSKETGCMVYEKLGEQVFGTTGKFVIFGATSLQNTGAMLSYLFIVKNELPSAIKFLMGKEETFSAWYVDGRVLVVIVTFGIILPLCLLKNLGYLGYTSGFSLSCMVFFLIVVIYKKFQIPCIVPELNSTISANSTNADTCTPKYVTFNSKTVYALPTIAFAFVCHPSVLPIYSELKDRSQKKMQMVSNISFFAMFVMYFLTAIFGYLTFYDNVQSDLLHKYQSKDDILILTVRLAVIVAVILTVPVLFFTVRSSLFELAKKTKFNLCRHTVVTCILLVVINLLVIFIPSMKDIFGVVGVTSANMLIFILPSSLYLKITDQDGDKGTQRIWAALFLGLGVLFSLVSIPLVIYDWACSSSSDEGH |
| 6086 | sp|F4I0K2|SCKL2\_ARATH | MASLSFTQFLSFPRCNADVPCLLQSHGFVKFRGERWNGKQSFSMAAGRRKLSESAPLEEEGNDGNGAVVGKKPSKSVKRTTKKKVVVKDEPLEEISEFLVDNDDVLDKESIVSALKPKKTRTRKKAAAASSDVEEVKTEKKVRRKRTVKKDKDVEDDLATIMDAEVSDVEEALAVESTDTESEEEEIDLSKHEGEDISHTYGWPPLVCCFGSAQHAFVPSGRPANRLLDYELHERMRDAKWAPEKYIRAPGGCAGGVAIALASLGGKVAFMGKLGADDYGQAMLYYLNVCKVQTRSVKIDGKRVTACSTMKISKRGRLKSTCIKPCAEDSLSKSEINVDVLKEAKMFYFSTHSLLDKKMMSTTIQAIKISKQLGNVIFYDLNLPLPLWHSSEETKSFIQEVWNLADVIEITKQELEFLCGIEPTEEFDTENNDISKFVHYPPETVEQLWHENLKVLFVTNGTSKIHYYTKEHNGAVSGMEDVPITPFTRDMSASGDGIVAGLIRMLTVQPDLMNNKGYLERTARYAIECGIIDQWLLAQTRGYPPKDDMEEEEDDEEEDEVESDPNGIRSITEKEYRTSKPYDEPDGPYVMKPVEEREYKKLELVGSMFEDGSL |
| 6087 | sp|Q8VI24|SATB2\_MOUSE | MERRSESPCLRDSPDRRSGSPDVKGPPPVKVARLEQNGSPMGARGRPNGAVAKAVGGLMIPVFCVVEQLDGSLEYDNREEHAEFVLVRKDVLFSQLVETALLALGYSHSSAAQAQGIIKLGRWNPLPLSYVTDAPDATVADMLQDVYHVVTLKIQLQSCSKLEDLPAEQWNHATVRNALKELLKEMNQSTLAKECPLSQSMISSIVNSTYYANVSATKCQEFGRWYKKYKKIKVERVERENLSDYCVLGQRPMHLPNMNQLASLGKTNEQSPHSQIHHSTPIRNQVPALQPIMSPGLLSPQLSPQLVRQQIAMAHLINQQIAVSRLLAHQHPQAINQQFLNHPPIPRAVKPEPTNSSVEVSPDIYQQVRDELKRASVSQAVFARVAFNRTQGLLSEILRKEEDPRTASQSLLVNLRAMQNFLNLPEVERDRIYQDERERSMNPNVSMVSSASSSPSSSRTPQAKTSTPTTDLPIKVDGANVNITAAIYDEIQQEMKRAKVSQALFAKVAANKSQGWLCELLRWKENPSPENRTLWENLCTIRRFLNLPQHERDVIYEEESRHHHSERMQHVVQLPPEPVQVLHRQQSQPTKESSPPREEAPPPPPPTEDSCAKKPRSRTKISLEALGILQSFIHDVGLYPDQEAIHTLSAQLDLPKHTIIKFFQNQRYHVKHHGKLKEHLGSAVDVAEYKDEELLTESEENDSEEGSEEMYKVEAEEENADKSKAAPAETDQR |
| 6088 | sp|P22224|SEC15\_YEAST | MDQEGQPLLSKDFQQVLLATASGNNSSWTERAVLNNESTDAVKHEPALGQNDVFDLDPLSFDKWVPFLRRALDKNQLDPVIDELENSIEDNFQGLELQLLQDSQMNDKLETSIDEIANIQGMVQDTLSSEISKFQIRLSESANELIVKKQMYVNNKKISLKISEATILITKVVRILELSSKCQELITERKFFKVLQNLDSLEKLYLQEFKNYNFQFLIEIYNSIPFLQKVTKDECINLIRNSLNLNLGKNLIKVGQEFVAIYENELLPQWLETRSKMKLTNFKFNSPIEISMRDESFLAKLNLGEFFQLDDFHDSIMIFQNLNELSVLSGEFNKEYELRKTKLMYPLIWKKNKTAAYQMDSLLRGTGTTPGSTAHDVSTDDPFTQSLSLHFLQDYFLKILGFLLYDINLNKATEFILVDNNYNSTNEFWDGLMDRLSPYLSYFIDEKLKTEEDMIKLKDFLCIYVAILENFKLNIEPLYKILVSIFEKFCSVSLRAFDDEFQILLNDDDFMPLSINDKTLYEKVLKICWMKEGEHLSLPDPTNGEPFAVTLPFSPLYPMTCTLAKKTYSKITAFLSIFYRHELHTLNNILVKTMDDIFNDIVNKKIRSKLESTSREEIAQILVNLDYFIIAAKEFSNFMTRENILQNPDMEIRLSSIKYLAESRKLAETKLIELIDSKISDILETIEIDWQITEVRQDPDISIIDLAQFLEMMFASTLQNLPYSVQTLLIFREFDSLTRQFMGLLLHDTPSTITHESIMNFEVDVNYLESIIPRIFPSTPGTIDSNGYQSPMTPSTPTFPNANGVDAPTLFENNIKSLEATFMELKQCIELLKTQGKDYNEPEIRLRKYSRIRQEDAALLLSKIQHFVSSVEGANGDDTSVMDSSSIFNSESASVIDSNTSRIAKFFNRR |
| 6089 | sp|P97952|SCN1B\_MOUSE | MGTLLALVVGAALVSSAWGGCVEVDSDTEAVYGMTFKILCISCKRRSETTAETFTEWTFRQKGTEEFVKILRYENEVLQLEEDERFEGRVVWNGSRGTKDLQDLSIFITNVTYNHSGDYECHVYRLLFFDNYEHNTSVVKKIHLEVVDKANRDMASIVSEIMMYVLIVVLTIWLVAEMVYCYKKIAAATEAAAQENASEYLAITSESKENCTGVQVAE |
| 6090 | sp|Q05AS3|SPAST\_XENTR | MNSPGGRNNKKKPVTPAAETGPGPPTPPPPPAETQVLLAPPSLHKRNLYLFSYPLLAAFSLLRFLAFQLGLLFVWFCERLSRRVMADKGSTAARTAAAPAQDRPQEPEVVRSYHQQAFQYISMALRIDEEEKDQKEQAIQWYKKGIEELEKGIAVTITGKGEQYDRARRLQAKMSTNLLMAKDRLQLLAKLKADIQGQHSQMEVCSDNTNLPCRNGLLKPEKGAVPKKKDPPSISSNSYSRVKAAPKSGSLGNRIPNCTGVSSSARQAGPNAPSNRGAAGKNNTRTNKPTTPTTAVRKKDMKNLRNVDSNLANLILNEIVDSGPTVKFADIAGQDLAKQALQEIVILPSIRPELFTGLRAPARGLLLFGPPGNGKTMLAKAVAAESNATFFNISAASLTSKYVGEGEKLVRALFSVARELQPSIIFIDEVDSLLCERREGEHDASRRLKTEFLIEFDGVQSGGDDRVLVMGATNRPQELDDAVLRRFTKRVYVSLPNEETRLLLLKNLLSKQGNPLNEKELTQLSRLTEGYSGSDITALAKDAALGPIRELKPEQVKNMAASEMRNIKYSDFLSSLKKIKCSVSPSTLESYIRWNKEFGDTTV |
| 6091 | sp|Q9BQB4|SOST\_HUMAN | MQLPLALCLVCLLVHTAFRVVEGQGWQAFKNDATEIIPELGEYPEPPPELENNKTMNRAENGGRPPHHPFETKDVSEYSCRELHFTRYVTDGPCRSAKPVTELVCSGQCGPARLLPNAIGRGKWWRPSGPDFRCIPDRYRAQRVQLLCPGGEAPRARKVRLVASCKCKRLTRFHNQSELKDFGTEAARPQKGRKPRPRARSAKANQAELENAY |
| 6092 | sp|Q37935|SPAN2\_LAMBD | MLKLKMMLCVMMLPLVVVGCTSKQSVSQCVKPPPPPAWIMQPPPDWQTPLNGIISPSERG |
| 6093 | sp|P39990|SNU13\_YEAST | MSAPNPKAFPLADAALTQQILDVVQQAANLRQLKKGANEATKTLNRGISEFIIMAADCEPIEILLHLPLLCEDKNVPYVFVPSRVALGRACGVSRPVIAASITTNDASAIKTQIYAVKDKIETLLI |
| 6094 | sp|Q9HD40|SPCS\_HUMAN | MNRESFAAGERLVSPAYVRQGCEARRSHEHLIRLLLEKGKCPENGWDESTLELFLHELAIMDSNNFLGNCGVGEREGRVASALVARRHYRFIHGIGRSGDISAVQPKAAGSSLLNKITNSLVLDIIKLAGVHTVANCFVVPMATGMSLTLCFLTLRHKRPKAKYIIWPRIDQKSCFKSMITAGFEPVVIENVLEGDELRTDLKAVEAKVQELGPDCILCIHSTTSCFAPRVPDRLEELAVICANYDIPHIVNNAYGVQSSKCMHLIQQGARVGRIDAFVQSLDKNFMVPVGGAIIAGFNDSFIQEISKMYPGRASASPSLDVLITLLSLGSNGYKKLLKERKEMFSYLSNQIKKLSEAYNERLLHTPHNPISLAMTLKTLDEHRDKAVTQLGSMLFTRQVSGARVVPLGSMQTVSGYTFRGFMSHTNNYPCAYLNAASAIGMKMQDVDLFIKRLDRCLKAVRKERSKESDDNYDKTEDVDIEEMALKLDNVLLDTYQDASS |
| 6095 | sp|P84023|SMAD3\_CHICK | MSSILPFTPPIVKRLLGWKKGEQNGQEEKWCEKAVKSLVKKLKKTGQLDELEKAITTQNINTKCITIPRSLDGRLQVSHRKGLPHVIYCRLWRWPDLHSHHELRAMEMCEYAFNMKKDEVCVNPYHYQRVETPVLPPVLVPRHTEIPAEFPPLDDYSHSIPENTNFPAGIEPQSNYIPETPPPGYLSEDGETSDHQMNPSMDAGSPNLSPNPMSPAHNNLDLQPVTYCEPAFWCSISYYELNQRVGETFHASQPSMTVDGFTDPSNSERFCLGLLSNVNRNAAVELTRRHIGRGVRLYYIGGEVFAECLSDSAIFVQSPNCNQRYGWHPATVCKIPPGCNLKIFNNQEFAALLAQSVNQGFEAVYQLTRMCTIRMSFVKGWGAEYRRQTVTSTPCWIELHLNGPLQWLDKVLTQMGSPSIRCSSVS |
| 6096 | sp|Q9VJN9|SEMP1\_DROME | MFPQIWGVIFLFTPTVFSELFKDPELLAGFYQGDIKAHPIRTRNGIVNQIYHWPNRTVPYMIEDDAFADSHYREILRAISIIEENSCVIFKPATEMDFPMALVITSKGLGCNTVHLGYRNKTQVVNLEIYPLGEGCFRIGSIIHELLHVLGFEHQHVSQNRDQYVSIQWKNINPQYNINFVNNDNSTAWHDFDEGYDYESVMHYVPRAFSRNGQPTIVPLREGAENMGQRFYMSEKDIRKLNKMYRCPDHV |
| 6097 | sp|Q3UH53|SDK1\_MOUSE | MARARPSVAGGGVAAPPERAGPGRPRRSRTGHHCDPECPGLRAAPRTPGPGAGRRAAKLRPGRGWWALLLLQLHLLRALAQDDVAPYFKTEPGLPQIHLEGNRLVLTCLAEGSWPLEFKWIRNDSELTTYSSEYKYIIPSLQKLDAGFYRCVVRNRMGALLQRKSEIQVAYMGNFMDTDQRKTVSQGHAALLNLLPIVSCPQPQVTWFREGHKIIPSSRIAITLENQLVILATTASDAGAYYVQAVNEKNGENKTSPFIHLSVARDTGTHEAMAPIIVVAPGNRSVVAGSSETTLECIANARPVEELSVHWKRNGVRLTSGLHSYGRRLTITNPTSADTGMYVCEATLRGSTFEPARARAFLSIIEPPYFTAEPESRILGEVEETMDIPCRAMGVPLPTLQWYKDAVPLSKLQNPRYKVLPSGGLHIQKLSPEDSGIFQCFASNEGGEVQTHTYLDVTNIAPAFTQRPVDTTVTDGMTAVLRCEVSGAPKPAITWKRGNHILASGSVRIPRFMLLESGGLRIAPVFIQDAGNYTCYAANTEASVNASAMLTVWNRTSIVHPPEDRVVIKGTTATLCCGATHDPRTSLRYVWKKDNVVITASSSSRIVVEKDGSLVISQTWSGDIGDYTCEIISEGGSDSRTARLEVIELPHPPQNLLASLSPARSHSVTLSWVRPFDGNSPVLYYIVQVSENNSPWKVHLSNVGPEMTGVTVSGLTPARTYQFRVCAVNQVGKGQYSTETSRLMLPEEPPSAPPKNIVASGRTNQSIMVQWQPPPETEHNGVLRGYILRYRLAGLPGEHQQRNISSPEVNYCLVTDLIIWTQYEIQVAAYNGAGLGVFSRAVTEYTLQGVPTAPPQNVQAEAVNSTTVHFLWNPPPQQFINGINQGYKLLAWPADAPETVTVVTIAPDFHGIHHGYITNLKKFTAYFTSVLCFTTPGDGPPSSPQLVWTHEDKPGAVGHLSFTEILDTSLKVSWQEPLERNGIIMGYQISWEVYGRNDSRLTHTLNSTMHEYKIQGLSSLTTYTIDVAALTAAGVGVTTSSTISSGVPPDLPGAPSNLVISNISPRSATLQFRPGYDGKTAICRWIVEGQVGAIGDEEEWVTLYEEENEPDAQMLEIPNLTPYTHYRFRMRQVNIVGPSPFSQSSRVIQTLQAPPDVAPTSLTVRTASETSLRLRWVPLPDSQYNGNPESVGYRVKYWRSDQPSSALAQVVSDRLERELTIEELEEWTEYELRMQAFNAIGAGPWSELVRGRTRESVPSAAPENVSAEAVSSTQILLTWASVPEQDQNGLILGYKVLYCAKDLDPEPRSHVVRGNHTQSALLAGLRKFVVYELQVLAFTRIGNGVPSSPLILERTKDDTPGPPVRLVFPEVRLTAVRIVWQPPEEPNGVILGYQIAYRLASGSPHTFTTVEVGATVRQFTATELAPESAYIFRLSAKTRQGWGEPLEATVITTEKRERPAPPRELLVPQAEVTARSLRLQWVPGSDGASPIRYFTVQVRELPGGEWQTYSSSISHEATACAVERLRPFTSYKLRLKATNDIGDSDFSAETEAVTTLQDVPGEPPGSVSATPHTTSSVLIQWQPPRDESLNGLLQGYRIYYRELESETGMSPEPKTLKSPSALRAELTAQSSFKTVNSSSSLTTYELTHLKKYRRYEVIMTAYNIIGESPASVPVEVFVGEAAPAMAPQNVQVTPLTASQLEVTWDPPPPESQNGNIQGYKVYYWEADSRNETEKMKVLFLPEPVVKIKDLTSHTKYLISISAFNAAGDGPKSDPCQGRTHQAAPGPPSFLAFSEITSTTLNVSWGEPSAANGILQGYRVVYEPLAPVQGVSKVVTVDVKGNWQRWLKVRDLTKGVTYFFRVQARTIAYGPELQANVTAGPAEGSPGSPRNVLVTKSASELTLQWTEGNAGTTPTTGYVIEARPSDEGLWDMFAKDIPRSATSYTVDLDKLRQGVTYEFRVVAVNKAGFGEPSRPSIAVSAQAEAPFYEEWWFLLVMALSSLLLILLVVFVLVLHGQSKKYKSCSTGKGISNMEETVTLDNGGFAALELNSRHLNVKSTFSKKNGTRSPPRPSPGGLHYSDEDICNKYNGAVLTESVNLKEKSVDGSESEASDSDYEEALPKHSFVNHYMSDPTYYNSWKRRPPAAAPHRYEAVAGAEAGPHLHTVITTQSAGGVYTPAGPGARAPLTGFSSFV |
| 6098 | sp|Q9UQD0|SCN8A\_HUMAN | MAARLLAPPGPDSFKPFTPESLANIERRIAESKLKKPPKADGSHREDDEDSKPKPNSDLEAGKSLPFIYGDIPQGLVAVPLEDFDPYYLTQKTFVVLNRGKTLFRFSATPALYILSPFNLIRRIAIKILIHSVFSMIIMCTILTNCVFMTFSNPPDWSKNVEYTFTGIYTFESLVKIIARGFCIDGFTFLRDPWNWLDFSVIMMAYITEFVNLGNVSALRTFRVLRALKTISVIPGLKTIVGALIQSVKKLSDVMILTVFCLSVFALIGLQLFMGNLRNKCVVWPINFNESYLENGTKGFDWEEYINNKTNFYTVPGMLEPLLCGNSSDAGQCPEGYQCMKAGRNPNYGYTSFDTFSWAFLALFRLMTQDYWENLYQLTLRAAGKTYMIFFVLVIFVGSFYLVNLILAVVAMAYEEQNQATLEEAEQKEAEFKAMLEQLKKQQEEAQAAAMATSAGTVSEDAIEEEGEEGGGSPRSSSEISKLSSKSAKERRNRRKKRKQKELSEGEEKGDPEKVFKSESEDGMRRKAFRLPDNRIGRKFSIMNQSLLSIPGSPFLSRHNSKSSIFSFRGPGRFRDPGSENEFADDEHSTVEESEGRRDSLFIPIRARERRSSYSGYSGYSQGSRSSRIFPSLRRSVKRNSTVDCNGVVSLIGGPGSHIGGRLLPEATTEVEIKKKGPGSLLVSMDQLASYGRKDRINSIMSVVTNTLVEELEESQRKCPPCWYKFANTFLIWECHPYWIKLKEIVNLIVMDPFVDLAITICIVLNTLFMAMEHHPMTPQFEHVLAVGNLVFTGIFTAEMFLKLIAMDPYYYFQEGWNIFDGFIVSLSLMELSLADVEGLSVLRSFRLLRVFKLAKSWPTLNMLIKIIGNSVGALGNLTLVLAIIVFIFAVVGMQLFGKSYKECVCKINQDCELPRWHMHDFFHSFLIVFRVLCGEWIETMWDCMEVAGQAMCLIVFMMVMVIGNLVVLNLFLALLLSSFSADNLAATDDDGEMNNLQISVIRIKKGVAWTKLKVHAFMQAHFKQREADEVKPLDELYEKKANCIANHTGADIHRNGDFQKNGNGTTSGIGSSVEKYIIDEDHMSFINNPNLTVRVPIAVGESDFENLNTEDVSSESDPEGSKDKLDDTSSSEGSTIDIKPEVEEVPVEQPEEYLDPDACFTEGCVQRFKCCQVNIEEGLGKSWWILRKTCFLIVEHNWFETFIIFMILLSSGALAFEDIYIEQRKTIRTILEYADKVFTYIFILEMLLKWTAYGFVKFFTNAWCWLDFLIVAVSLVSLIANALGYSELGAIKSLRTLRALRPLRALSRFEGMRVVVNALVGAIPSIMNVLLVCLIFWLIFSIMGVNLFAGKYHYCFNETSEIRFEIEDVNNKTECEKLMEGNNTEIRWKNVKINFDNVGAGYLALLQVATFKGWMDIMYAAVDSRKPDEQPKYEDNIYMYIYFVIFIIFGSFFTLNLFIGVIIDNFNQQKKKFGGQDIFMTEEQKKYYNAMKKLGSKKPQKPIPRPLNKIQGIVFDFVTQQAFDIVIMMLICLNMVTMMVETDTQSKQMENILYWINLVFVIFFTCECVLKMFALRHYYFTIGWNIFDFVVVILSIVGMFLADIIEKYFVSPTLFRVIRLARIGRILRLIKGAKGIRTLLFALMMSLPALFNIGLLLFLVMFIFSIFGMSNFAYVKHEAGIDDMFNFETFGNSMICLFQITTSAGWDGLLLPILNRPPDCSLDKEHPGSGFKGDCGNPSVGIFFFVSYIIISFLIVVNMYIAIILENFSVATEESADPLSEDDFETFYEIWEKFDPDATQFIEYCKLADFADALEHPLRVPKPNTIELIAMDLPMVSGDRIHCLDILFAFTKRVLGDSGELDILRQQMEERFVASNPSKVSYEPITTTLRRKQEEVSAVVLQRAYRGHLARRGFICKKTTSNKLENGGTHREKKESTPSTASLPSYDSVTKPEKEKQQRAEEGRRERAKRQKEVRESKC |
| 6099 | sp|B9DFS6|SNX2B\_ARATH | MMGSENDEESHLHSSKEEMEKLFLREDGDPLTKSNVNGDKSNSNYRSAMSTLFDSRHPSIVVTPADSDPLFAPPSYYSESRSPRSKPNGGDRVSSYLEPPSYADVIFSPFDDISEINGSEDGHSQSSDSLSRSPSSLSSDYIKITVSNPQKEQEATNSMIPGGSTYITYQITTRTNLSDYGGSEFSVRRRFRDIVTLADRLAESYRGFCIPPRPDKSIVESQVMQKQEFVEQRRVALEKYLRRLVAHPVIRNSDELKVFLQAQGKLPLATSTDVASRMLDGAVKLPKQLFGEGGGASSVEVVQPGRGGRDFLRMFKELRQSVSNDWGGSKPPVVEEDKEFLEKKEKMYDLEQQIINASQQAESLVKAQQDMGETMGELGLAFIKLTKFENEEAVFNSQRARANDMKNLATSAVKASRFYRELNSQTVKHLDTLHDYLGLMMAVQGAFADRSSALLTVQTLLSELSSLEARAEKLEVASSKVFGGDKSRIKKIEELKETIKVTEDSKNVAIREYEQIKENNWSEVERLDRERRADFLNMMKGFVANQVGYAEKIANVWTKVAEETRQYDRESS |
| 6100 | sp|P53540|SPC98\_YEAST | MELEPTLFGIIEALAPQLLSQSHLQTFVSDVVNLLRSSTKSATQLGPLIDFYKLQSLDSPETTIMWHKIEKFLDALFGIQNTDDMVKYLSVFQSLLPSNYRAKIVQKSSGLNMENLANHEHLLSPVRAPSIYTEASFENMDRFSERRSMVSSPNRYVPSSTYSSVTLRQLSNPYYVNTIPEEDILKYVSYTLLATTSALFPFDHEQIQIPSKIPNFESGLLHLIFEAGLLYQSLGYKVEKFRMLNISPMKKALIIEISEELQNYTAFVNNLVSSGTVVSLKSLYREIYENIIRLRIYCRFTEHLEELSGDTFLIELNIFKSHGDLTIRKIATNLFNSMISLYYEYLMNWLTKGLLRATYGEFFIAENTDTNGTDDDFIYHIPIEFNQERVPAFIPKELAYKIFMIGKSYIFLEKYCKEVQWTNEFSKKYHVLYQSNSYRGISTNFFEIINDQYSEIVNHTNQILNQKFHYRDVVFALKNILLMGKSDFMDALIEKANDILATPSDSLPNYKLTRVLQEAVQLSSLRHLMNSPRNSSVINGLDARVLDLGHGSVGWDVFTLDYILYPPLSLVLNVNRPFGRKEYLRIFNFLWRFKKNNYFYQKEMLKSNDIIRSFKKIRGYNPLIRDIINKLSRISILRTQFQQFNSKMESYYLNCIIEENFKEMTRKLQRTENKSQNQFDLIRLNNGTIELNGILTPKAEVLTKSSSSKPQKHAIEKTLNIDELESVHNTFLTNILSHKLFATNTSEISVGDYSGQPYPTSLVLLLNSVYEFVKVYCNLNDIGYEIFIKMNLNDHEASNGLLGKFNTNLKEIVSQYKNFKDRLYIFRADLKNDGDEELFLLSKSLR |
| 6101 | sp|P37956|SPL\_BACSU | MQNPFVPQLVYIEPRALEYPLGQELQDKFENMGIEIRETTSHNQVRNIPGKNHLQQYRNAKSTLVIGVRKTLKFDSSKPSAEYAIPFATGCMGHCHYCYLQTTMGSKPYIRTYVNVEEILDQADKYMKERAPEFTRFEASCTSDIVGIDHLTHTLKRAIEHFGQSDLGKLRFVTKFHHVDHLLDAKHNGKTRFRFSINADYVIKNFEPGTSPLDKRIEAAVKVAKAGYPLGFIVAPIYIHEGWEEGYRHLFEKLDAALPQDVRHDITFELIQHRFTKPAKRVIEKNYPKTKLELDEEKRRYKWGRYGIGKYIYQKDEEHALREALESYIDTFFPNAKIEYFT |
| 6102 | sp|P97588|SMAD1\_RAT | MNVTSLFSFTSPAVKRLLGWKQGDEEEKWAEKAVDALVKKLKKKKGAMEELEKALSCPGQPSNCVTIPRSLDGRLQVSHRKGLPHVIYCRVWRWPDLQSHHELKPLECCEFPFGSKQKEVCINPYHYKRVESPVLPPVLVPRHSEYNPQHSLLAQFRNLGQNEPHMPLNATFPDSFQQPHSHPFAQYPNSSYPNSPGSSSSTYPHSPTSSDPGSPFQMPADTPPPAYLPPEDPMAQDGSQPMDTNMTNMTAPTLPAEINRGDVQAVAYEEPKHWCSIVYYELNNRVGERFHASSTSVLVDGFTDPSNNKNRFCLGLLSNVNRNSTIENTRRHIGKGVHLYYVGGEVYAECLSDSSIFVQSRNCNYHHGFHPTTVCKIPSGCSLKIFNNQEFAQLLAQSVNHGFETEYELTKMCTIRMSFVKGWGAEYHRQDVTSTPCWIEIHLHGPLQWLDKVLTQMGSPHNPISSVS |
| 6103 | sp|P57073|SOX8\_HUMAN | MLDMSEARSQPPCSPSGTASSMSHVEDSDSDAPPSPAGSEGLGRAGVAVGGARGDPAEAADERFPACIRDAVSQVLKGYDWSLVPMPVRGGGGGALKAKPHVKRPMNAFMVWAQAARRKLADQYPHLHNAELSKTLGKLWRLLSESEKRPFVEEAERLRVQHKKDHPDYKYQPRRRKSAKAGHSDSDSGAELGPHPGGGAVYKAEAGLGDGHHHGDHTGQTHGPPTPPTTPKTELQQAGAKPELKLEGRRPVDSGRQNIDFSNVDISELSSEVMGTMDAFDVHEFDQYLPLGGPAPPEPGQAYGGAYFHAGASPVWAHKSAPSASASPTETGPPRPHIKTEQPSPGHYGDQPRGSPDYGSCSGQSSATPAAPAGPFAGSQGDYGDLQASSYYGAYPGYAPGLYQYPCFHSPRRPYASPLLNGLALPPAHSPTSHWDQPVYTTLTRP |
| 6104 | sp|Q8KDM7|SOXA\_CHLTE | MKKTIQRGLFTGALVLMTAMTAKPANAEVNYQALVDADVKAFQGFFRKEFPDVKLEDFGNGVYALDEDARKQWKEMEEFPPYELDVEAGKALFNKPFANGKSLASCFPNGGAVRGMYPYFDEKRKEVVTLEMAINECRVANGEKPYAWEKGDIARVSAYIASISRGQKVDVKVKSKAAYDAYMKGKKFFYAKRGQLNMSCSGCHMEYAGRHLRAEIISPALGHTTHFPVFRSKWGEIGTLHRRYAGCSNNIGAKPFAPQSEEYRDLEFFQTVMSNGLKYNGPASRK |
| 6105 | sp|G5EDJ4|SOC1\_CAEEL | MSIPDENIILEGSLKRCKKYKLFKTKWVEHYFVLHCRDRERNLFAIDEFKTSRKNDLKKRFKLEFVIRVESNLSVSDPSILCTAGGGHQEESMLNCIFGVGFRFENIVKDLYLVAKNDEEMTLWVNEICKLCKLHRQHDEGDSSHAAESSISGMSMSSQSLDMSIIEQQQYAENIPESKQYHRMHHFKSVISHNSLPSNPNYNNLPDPLESSRSETSSMYSSRRTEDDSVSYTSGPPVPPPRTRHTLNRFVKNGQVGRLHMIPASTSMGQVVKVEDAEDSSGETLKLDTPEQYPESVTSSEGFPVYERNGKTLIRRAPPPVDRSNKPKNLRGEEEAGTRYRNLSRNGVNENGNYSATFSSRTSNYQQSETSKRRNLDYFEPTQMIENSSLSTLAATSTRSPTPSDIEYISVDVDRTLAFKQMRRAAQSTD |
| 6106 | sp|Q9JJF2|SPAG4\_MOUSE | MRRSPRSGSAASSHNHTPNFYSENSNSSHSATSGDSNGRRSAGPELGEPEGRRARGSSCGEPALSPGMPGGDTWAGSSRPKLAPRSHNGQTACGAATVRGGASEPSGSSVVLEEQLNLLPILDLRQEMPTPRVSKSFLSLLFQVLSMVLSLAVDGLVCVCREICSIRFLFTAVSLLSIFLAALWWGLLYLIPPLENEPTEMLTLSQYHHRVHSQGQQLQQLQAELNKLHKEVSSVRAAHSERVAKLVFQRLNEDFVRKPDYALSSVGASIDLEKTSSDYEDQNTAYFWNRLSFWNYARPPSVILEPDVFPGNCWAFEGDKGQVVIRLPGHVQLSDITLQHPPPTVAHTGGASSAPRDFAVYGLQADDETEVFLGKFIFDVQKSEIQTFHLQNDPPSAFPKVKIQILSNWGHPRFTCLYRVRAHGVRTSEWADDNATGVTGGPH |
| 6107 | sp|P62320|SMD3\_MOUSE | MSIGVPIKVLHEAEGHIVTCETNTGEVYRGKLIEAEDNMNCQMSNITVTYRDGRVAQLEQVYIRGSKIRFLILPDMLKNAPMLKSMKNKNQGSGAGRGKAAILKAQVAARGRGRGMGRGNIFQKRR |
| 6108 | sp|P06843|SPT2\_YEAST | MSFLSKLSQIRKSTTASKAQVQDPLPKKNDEEYSLLPKNYIRDEDPAVKRLKELRRQELLKNGALAKKSGVKRKRGTSSGSEKKKIERNDDDEGGLGIRFKRSIGASHAPLKPVVRKKPEPIKKMSFEELMKQAENNEKQPPKVKSSEPVTKERPHFNKPGFKSSKRPQKKASPGATLRGVSSGGNSIKSSDSPKPVKLNLPTNGFAQPNRRLKEKLESRKQKSRYQDDYDEEDNDMDDFIEDDEDEGYHSKSKHSNGPGYDRDEIWAMFNRGKKRSEYDYDELEDDDMEANEMEILEEEEMARKMARLEDKREEAWLKKHEEEKRRRKKGIR |
| 6109 | sp|P43267|SOX15\_MOUSE | MALTSSSQAETWSLHPRASTASLPLGPQEQEAGGSPGASGGLPLEKVKRPMNAFMVWSSVQRRQMAQQNPKMHNSEISKRLGAQWKLLGDEEKRPFVEEAKRLRARHLRDYPDYKYRPRRKSKNSSTGSVPFSQEGGGLACGGSHWGPGYTTTQGSRGFGYQPPNYSTAYLPGSYTSSHCRPEAPLPCTFPQSDPRLQGELRPSFSPYLSPDSSTPYNTSLAGAPMPVTHL |
| 6110 | sp|O48666|SQS1\_PANGI | MGSLGAILKHPEDFYPLLKLKFAARHAEKQIPPEPHWAFCYSMLHKVSRSFGLVIQQLGPQLRDAVCIFYLVLRALDTVEDDTSIPTEVKVPILMAFHRHIYDKDWHFSCGTKEYKVLMDEFHHVSNAFLELGSGYQEAIEDITMRMGAGMAKFICKEVETINDYDEYCHYVAGLVGLGLSKLFHASGAEDLATDSLSNSMGLFLQKTNIIRDYLEDINEIPKSRMFWPRQIWSKYVDKLEDLKYEENSAKAVQCLNDMVTDALVHAEDCLKYMSDLRGPAIFRFCAIPQIMAIGTLALCFNNTQVFRGVVKMRRGLTAKVIDQTKTMSDVYGAFFDFSCLLKSKVDNNDPNATKTLSRLEAIQKTCKESGTLSKRKSYIIESESGHNSALIAIIFIILAILYAYLSSNLLLNKQ |
| 6111 | sp|Q9H7B4|SMYD3\_HUMAN | MEPLKVEKFATAKRGNGLRAVTPLRPGELLFRSDPLAYTVCKGSRGVVCDRCLLGKEKLMRCSQCRVAKYCSAKCQKKAWPDHKRECKCLKSCKPRYPPDSVRLLGRVVFKLMDGAPSESEKLYSFYDLESNINKLTEDKKEGLRQLVMTFQHFMREEIQDASQLPPAFDLFEAFAKVICNSFTICNAEMQEVGVGLYPSISLLNHSCDPNCSIVFNGPHLLLRAVRDIEVGEELTICYLDMLMTSEERRKQLRDQYCFECDCFRCQTQDKDADMLTGDEQVWKEVQESLKKIEELKAHWKWEQVLAMCQAIISSNSERLPDINIYQLKVLDCAMDACINLGLLEEALFYGTRTMEPYRIFFPGSHPVRGVQVMKVGKLQLHQGMFPQAMKNLRLAFDIMRVTHGREHSLIEDLILLLEECDANIRAS |
| 6112 | sp|Q557E4|SKP1B\_DICDI | MSLVKLESSDEKVFEIEKEIACMSVTIKNMIEDIGESDAPIPLPNVTSTILEKVLDYCRHHHQHPSPQGDDKKDEKRLDDIPPYDRDFCKVDQPTLFELILAANYLDIKPLLDVTCKTVANMIRGKTPEEIRKIFNIKNDFTPEEEEQIRKENEWCEDKGGN |
| 6113 | sp|O88908|SOAT2\_MOUSE | MQPKVPQLRRREGLGEEQEKGARGGEGNARTHGTPDLVQWTRHMEAVKTQFLEQAQRELAELLDRALWEAMQAYPKQDRPLPSAAPDSTSKTQELHPGKRKVFITRKSLIDELMEVQHFRTIYHMFIAGLCVLIISTLAIDFIDEGRLMLEFDLLLFSFGQLPLALMTWVPMFLSTLLVPYQTLWLWARPRAGGAWMLGASLGCVLLAAHAVVLCVLPVHVSVRHELPPASRCVLVFEQVRLLMKSYSFLRETVPGIFCVRGGKGISPPSFSSYLYFLFCPTLIYRETYPRTPSIRWNYVAKNFAQVLGCLLYACFILGRLCVPVFANMSREPFSTRALLLSILHATGPGIFMLLLIFFAFLHCWLNAFAEMLRFGDRMFYRDWWNSTSFSNYYRTWNVVVHDWLYSYVYQDGLWLLGRRARGVAMLGVFLVSAVVHEYIFCFVLGFFYPVMLMLFLVFGGLLNFTMNDRHTGPAWNILMWTFLFMGQGIQVSLYCQEWYARRHCPLPQTTFWGMVTPRSWSCHP |
| 6114 | sp|Q9UQ35|SRRM2\_HUMAN | MYNGIGLPTPRGSGTNGYVQRNLSLVRGRRGERPDYKGEEELRRLEAALVKRPNPDILDHERKRRVELRCLELEEMMEEQGYEEQQIQEKVATFRLMLLEKDVNPGGKEETPGQRPAVTETHQLAELNEKKNERLRAAFGISDSYVDGSSFDPQRRAREAKQPAPEPPKPYSLVRESSSSRSPTPKQKKKKKKKDRGRRSESSSPRRERKKSSKKKKHRSESESKKRKHRSPTPKSKRKSKDKKRKRSRSTTPAPKSRRAHRSTSADSASSSDTSRSRSRSAAAKTHTTALAGRSPSPASGRRGEGDAPFSEPGTTSTQRPSSPETATKQPSSPYEDKDKDKKEKSATRPSPSPERSSTGPEPPAPTPLLAERHGGSPQPLATTPLSQEPVNPPSEASPTRDRSPPKSPEKLPQSSSSESSPPSPQPTKVSRHASSSPESPKPAPAPGSHREISSSPTSKNRSHGRAKRDKSHSHTPSRRMGRSRSPATAKRGRSRSRTPTKRGHSRSRSPQWRRSRSAQRWGRSRSPQRRGRSRSPQRPGWSRSRNTQRRGRSRSARRGRSHSRSPATRGRSRSRTPARRGRSRSRTPARRRSRSRTPTRRRSRSRTPARRGRSRSRTPARRRSRTRSPVRRRSRSRSPARRSGRSRSRTPARRGRSRSRTPARRGRSRSRTPARRSGRSRSRTPARRGRSRSRTPRRGRSRSRSLVRRGRSHSRTPQRRGRSGSSSERKNKSRTSQRRSRSNSSPEMKKSRISSRRSRSLSSPRSKAKSRLSLRRSLSGSSPCPKQKSQTPPRRSRSGSSQPKAKSRTPPRRSRSSSSPPPKQKSKTPSRQSHSSSSPHPKVKSGTPPRQGSITSPQANEQSVTPQRRSCFESSPDPELKSRTPSRHSCSGSSPPRVKSSTPPRQSPSRSSSPQPKVKAIISPRQRSHSGSSSPSPSRVTSRTTPRRSRSVSPCSNVESRLLPRYSHSGSSSPDTKVKPETPPRQSHSGSISPYPKVKAQTPPGPSLSGSKSPCPQEKSKDSLVQSCPGSLSLCAGVKSSTPPGESYFGVSSLQLKGQSQTSPDHRSDTSSPEVRQSHSESPSLQSKSQTSPKGGRSRSSSPVTELASRSPIRQDRGEFSASPMLKSGMSPEQSRFQSDSSSYPTVDSNSLLGQSRLETAESKEKMALPPQEDATASPPRQKDKFSPFPVQDRPESSLVFKDTLRTPPRERSGAGSSPETKEQNSALPTSSQDEELMEVVEKSEEPAGQILSHLSSELKEMSTSNFESSPEVEERPAVSLTLDQSQSQASLEAVEVPSMASSWGGPHFSPEHKELSNSPLRENSFGSPLEFRNSGPLGTEMNTGFSSEVKEDLNGPFLNQLETDPSLDMKEQSTRSSGHSSSELSPDAVEKAGMSSNQSISSPVLDAVPRTPSRERSSSASSPEMKDGLPRTPSRRSRSGSSPGLRDGSGTPSRHSLSGSSPGMKDIPRTPSRGRSECDSSPEPKALPQTPRPRSRSPSSPELNNKCLTPQRERSGSESSVDQKTVARTPLGQRSRSGSSQELDVKPSASPQERSESDSSPDSKAKTRTPLRQRSRSGSSPEVDSKSRLSPRRSRSGSSPEVKDKPRAAPRAQSGSDSSPEPKAPAPRALPRRSRSGSSSKGRGPSPEGSSSTESSPEHPPKSRTARRGSRSSPEPKTKSRTPPRRRSSRSSPELTRKARLSRRSRSASSSPETRSRTPPRHRRSPSVSSPEPAEKSRSSRRRRSASSPRTKTTSRRGRSPSPKPRGLQRSRSRSRREKTRTTRRRDRSGSSQSTSRRRQRSRSRSRVTRRRRGGSGYHSRSPARQESSRTSSRRRRGRSRTPPTSRKRSRSRTSPAPWKRSRSRASPATHRRSRSRTPLISRRRSRSRTSPVSRRRSRSRTSVTRRRSRSRASPVSRRRSRSRTPPVTRRRSRSRTPTTRRRSRSRTPPVTRRRSRSRTPPVTRRRSRSRTSPITRRRSRSRTSPVTRRRSRSRTSPVTRRRSRSRTSPVTRRRSRSRTPPAIRRRSRSRTPLLPRKRSRSRSPLAIRRRSRSRTPRTARGKRSLTRSPPAIRRRSASGSSSDRSRSATPPATRNHSGSRTPPVALNSSRMSCFSRPSMSPTPLDRCRSPGMLEPLGSSRTPMSVLQQAGGSMMDGPGPRIPDHQRTSVPENHAQSRIALALTAISLGTARPPPSMSAAGLAARMSQVPAPVPLMSLRTAPAANLASRIPAASAAAMNLASARTPAIPTAVNLADSRTPAAAAAMNLASPRTAVAPSAVNLADPRTPTAPAVNLAGARTPAALAALSLTGSGTPPTAANYPSSSRTPQAPASANLVGPRSAHATAPVNIAGSRTAAALAPASLTSARMAPALSGANLTSPRVPLSAYERVSGRTSPPLLDRARSRTPPSAPSQSRMTSERAPSPSSRMGQAPSQSLLPPAQDQPRSPVPSAFSDQSRCLIAQTTPVAGSQSLSSGAVATTTSSAGDHNGMLSVPAPGVPHSDVGEPPASTGAQQPSALAALQPAKERRSSSSSSSSSSSSSSSSSSSSSSSSSGSSSSDSEGSSLPVQPEVALKRVPSPTPAPKEAVREGRPPEPTPAKRKRRSSSSSSSSSSSSSSSSSSSSSSSSSSSSSSSSSSSSSSSSSSPSPAKPGPQALPKPASPKKPPPGERRSRSPRKPIDSLRDSRSLSYSPVERRRPSPQPSPRDQQSSSSERGSRRGQRGDSRSPSHKRRRETPSPRPMRHRSSRSP |
| 6115 | sp|Q96Q15|SMG1\_HUMAN | MSRRAPGSRLSSGGGGGGTKYPRSWNDWQPRTDSASADPDNLKYSSSRDRGGSSSYGLQPSNSAVVSRQRHDDTRVHADIQNDEKGGYSVNGGSGENTYGRKSLGQELRVNNVTSPEFTSVQHGSRALATKDMRKSQERSMSYSDESRLSNLLRRITREDDRDRRLATVKQLKEFIQQPENKLVLVKQLDNILAAVHDVLNESSKLLQELRQEGACCLGLLCASLSYEAEKIFKWIFSKFSSSAKDEVKLLYLCATYKALETVGEKKAFSSVMQLVMTSLQSILENVDTPELLCKCVKCILLVARCYPHIFSTNFRDTVDILVGWHIDHTQKPSLTQQVSGWLQSLEPFWVADLAFSTTLLGQFLEDMEAYAEDLSHVASGESVDEDVPPPSVSLPKLAALLRVFSTVVRSIGERFSPIRGPPITEAYVTDVLYRVMRCVTAANQVFFSEAVLTAANECVGVLLGSLDPSMTIHCDMVITYGLDQLENCQTCGTDYIISVLNLLTLIVEQINTKLPSSFVEKLFIPSSKLLFLRYHKEKEVVAVAHAVYQAVLSLKNIPVLETAYKLILGEMTCALNNLLHSLQLPEACSEIKHEAFKNHVFNVDNAKFVVIFDLSALTTIGNAKNSLIGMWALSPTVFALLSKNLMIVHSDLAVHFPAIQYAVLYTLYSHCTRHDHFISSSLSSSSPSLFDGAVISTVTTATKKHFSIILNLLGILLKKDNLNQDTRKLLMTWALEAAVLMKKSETYAPLFSLPSFHKFCKGLLANTLVEDVNICLQACSSLHALSSSLPDDLLQRCVDVCRVQLVHSGTRIRQAFGKLLKSIPLDVVLSNNNHTEIQEISLALRSHMSKAPSNTFHPQDFSDVISFILYGNSHRTGKDNWLERLFYSCQRLDKRDQSTIPRNLLKTDAVLWQWAIWEAAQFTVLSKLRTPLGRAQDTFQTIEGIIRSLAAHTLNPDQDVSQWTTADNDEGHGNNQLRLVLLLQYLENLEKLMYNAYEGCANALTSPPKVIRTFFYTNRQTCQDWLTRIRLSIMRVGLLAGQPAVTVRHGFDLLTEMKTTSLSQGNELEVTIMMVVEALCELHCPEAIQGIAVWSSSIVGKNLLWINSVAQQAEGRFEKASVEYQEHLCAMTGVDCCISSFDKSVLTLANAGRNSASPKHSLNGESRKTVLSKPTDSSPEVINYLGNKACECYISIADWAAVQEWQNAIHDLKKSTSSTSLNLKADFNYIKSLSSFESGKFVECTEQLELLPGENINLLAGGSKEKIDMKKLLPNMLSPDPRELQKSIEVQLLRSSVCLATALNPIEQDQKWQSITENVVKYLKQTSRIAIGPLRLSTLTVSQSLPVLSTLQLYCSSALENTVSNRLSTEDCLIPLFSEALRSCKQHDVRPWMQALRYTMYQNQLLEKIKEQTVPIRSHLMELGLTAAKFARKRGNVSLATRLLAQCSEVQLGKTTTAQDLVQHFKKLSTQGQVDEKWGPELDIEKTKLLYTAGQSTHAMEMLSSCAISFCKSVKAEYAVAKSILTLAKWIQAEWKEISGQLKQVYRAQHQQNFTGLSTLSKNILTLIELPSVNTMEEEYPRIESESTVHIGVGEPDFILGQLYHLSSVQAPEVAKSWAALASWAYRWGRKVVDNASQGEGVRLLPREKSEVQNLLPDTITEEEKERIYGILGQAVCRPAGIQDEDITLQITESEDNEEDDMVDVIWRQLISSCPWLSELDESATEGVIKVWRKVVDRIFSLYKLSCSAYFTFLKLNAGQIPLDEDDPRLHLSHRVEQSTDDMIVMATLRLLRLLVKHAGELRQYLEHGLETTPTAPWRGIIPQLFSRLNHPEVYVRQSICNLLCRVAQDSPHLILYPAIVGTISLSSESQASGNKFSTAIPTLLGNIQGEELLVSECEGGSPPASQDSNKDEPKSGLNEDQAMMQDCYSKIVDKLSSANPTMVLQVQMLVAELRRVTVLWDELWLGVLLQQHMYVLRRIQQLEDEVKRVQNNNTLRKEEKIAIMREKHTALMKPIVFALEHVRSITAAPAETPHEKWFQDNYGDAIENALEKLKTPLNPAKPGSSWIPFKEIMLSLQQRAQKRASYILRLEEISPWLAAMTNTEIALPGEVSARDTVTIHSVGGTITILPTKTKPKKLLFLGSDGKSYPYLFKGLEDLHLDERIMQFLSIVNTMFATINRQETPRFHARHYSVTPLGTRSGLIQWVDGATPLFGLYKRWQQREAALQAQKAQDSYQTPQNPGIVPRPSELYYSKIGPALKTVGLSLDVSRRDWPLHVMKAVLEELMEATPPNLLAKELWSSCTTPDEWWRVTQSYARSTAVMSMVGYIIGLGDRHLDNVLIDMTTGEVVHIDYNVCFEKGKSLRVPEKVPFRMTQNIETALGVTGVEGVFRLSCEQVLHIMRRGRETLLTLLEAFVYDPLVDWTAGGEAGFAGAVYGGGGQQAESKQSKREMEREITRSLFSSRVAEIKVNWFKNRDEMLVVLPKLDGSLDEYLSLQEQLTDVEKLQGKLLEEIEFLEGAEGVDHPSHTLQHRYSEHTQLQTQQRAVQEAIQVKLNEFEQWITHYQAAFNNLEATQLASLLQEISTQMDLGPPSYVPATAFLQNAGQAHLISQCEQLEGEVGALLQQRRSVLRGCLEQLHHYATVALQYPKAIFQKHRIEQWKTWMEELICNTTVERCQELYRKYEMQYAPQPPPTVCQFITATEMTLQRYAADINSRLIRQVERLKQEAVTVPVCEDQLKEIERCIKVFLHENGEEGSLSLASVIISALCTLTRRNLMMEGAASSAGEQLVDLTSRDGAWFLEELCSMSGNVTCLVQLLKQCHLVPQDLDIPNPMEASETVHLANGVYTSLQELNSNFRQIIFPEALRCLMKGEYTLESMLHELDGLIEQTTDGVPLQTLVESLQAYLRNAAMGLEEETHAHYIDVARLLHAQYGELIQPRNGSVDETPKMSAGQMLLVAFDGMFAQVETAFSLLVEKLNKMEIPIAWRKIDIIREARSTQVNFFDDDNHRQVLEEIFFLKRLQTIKEFFRLCGTFSKTLSGSSSLEDQNTVNGPVQIVNVKTLFRNSCFSEDQMAKPIKAFTADFVRQLLIGLPNQALGLTLCSFISALGVDIIAQVEAKDFGAESKVSVDDLCKKAVEHNIQIGKFSQLVMNRATVLASSYDTAWKKHDLVRRLETSISSCKTSLQRVQLHIAMFQWQHEDLLINRPQAMSVTPPPRSAILTSMKKKLHTLSQIETSIATVQEKLAALESSIEQRLKWAGGANPALAPVLQDFEATIAERRNLVLKESQRASQVTFLCSNIIHFESLRTRTAEALNLDAALFELIKRCQQMCSFASQFNSSVSELELRLLQRVDTGLEHPIGSSEWLLSAHKQLTQDMSTQRAIQTEKEQQIETVCETIQNLVDNIKTVLTGHNRQLGDVKHLLKAMAKDEEAALADGEDVPYENSVRQFLGEYKSWQDNIQTVLFTLVQAMGQVRSQEHVEMLQEITPTLKELKTQSQSIYNNLVSFASPLVTDATNECSSPTSSATYQPSFAAAVRSNTGQKTQPDVMSQNARKLIQKNLATSADTPPSTVPGTGKSVACSPKKAVRDPKTGKAVQERNSYAVSVWKRVKAKLEGRDVDPNRRMSVAEQVDYVIKEATNLDNLAQLYEGWTAWV |
| 6116 | sp|Q13309|SKP2\_HUMAN | MHRKHLQEIPDLSSNVATSFTWGWDSSKTSELLSGMGVSALEKEEPDSENIPQELLSNLGHPESPPRKRLKSKGSDKDFVIVRRPKLNRENFPGVSWDSLPDELLLGIFSCLCLPELLKVSGVCKRWYRLASDESLWQTLDLTGKNLHPDVTGRLLSQGVIAFRCPRSFMDQPLAEHFSPFRVQHMDLSNSVIEVSTLHGILSQCSKLQNLSLEGLRLSDPIVNTLAKNSNLVRLNLSGCSGFSEFALQTLLSSCSRLDELNLSWCFDFTEKHVQVAVAHVSETITQLNLSGYRKNLQKSDLSTLVRRCPNLVHLDLSDSVMLKNDCFQEFFQLNYLQHLSLSRCYDIIPETLLELGEIPTLKTLQVFGIVPDGTLQLLKEALPHLQINCSHFTTIARPTIGNKKNQEIWGIKCRLTLQKPSCL |
| 6117 | sp|O95863|SNAI1\_HUMAN | MPRSFLVRKPSDPNRKPNYSELQDSNPEFTFQQPYDQAHLLAAIPPPEILNPTASLPMLIWDSVLAPQAQPIAWASLRLQESPRVAELTSLSDEDSGKGSQPPSPPSPAPSSFSSTSVSSLEAEAYAAFPGLGQVPKQLAQLSEAKDLQARKAFNCKYCNKEYLSLGALKMHIRSHTLPCVCGTCGKAFSRPWLLQGHVRTHTGEKPFSCPHCSRAFADRSNLRAHLQTHSDVKKYQCQACARTFSRMSLLHKHQESGCSGCPR |
| 6118 | sp|Q92581|SL9A6\_HUMAN | MARRGWRRAPLRRGVGSSPRARRLMRPLWLLLAVGVFDWAGASDGGGGEARAMDEEIVSEKQAEESHRQDSANLLIFILLLTLTILTIWLFKHRRARFLHETGLAMIYGLLVGLVLRYGIHVPSDVNNVTLSCEVQSSPTTLLVTFDPEVFFNILLPPIIFYAGYSLKRRHFFRNLGSILAYAFLGTAISCFVIGSIMYGCVTLMKVTGQLAGDFYFTDCLLFGAIVSATDPVTVLAIFHELQVDVELYALLFGESVLNDAVAIVLSSSIVAYQPAGDNSHTFDVTAMFKSIGIFLGIFSGSFAMGAATGVVTALVTKFTKLREFQLLETGLFFLMSWSTFLLAEAWGFTGVVAVLFCGITQAHYTYNNLSTESQHRTKQLFELLNFLAENFIFSYMGLTLFTFQNHVFNPTFVVGAFVAIFLGRAANIYPLSLLLNLGRRSKIGSNFQHMMMFAGLRGAMAFALAIRDTATYARQMMFSTTLLIVFFTVWVFGGGTTAMLSCLHIRVGVDSDQEHLGVPENERRTTKAESAWLFRMWYNFDHNYLKPLLTHSGPPLTTTLPACCGPIARCLTSPQAYENQEQLKDDDSDLILNDGDISLTYGDSTVNTEPATSSAPRRFMGNSSEDALDRELAFGDHELVIRGTRLVLPMDDSEPPLNLLDNTRHGPA |
| 6119 | sp|P18297|SPRE\_RAT | MEGGRLGCAVCVLTGASRGFGRALAPQLAGLLSPGSVLLLSARSDSMLRQLKEELCTQQPGLQVVLAAADLGTESGVQQLLSAVRELPRPERLQRLLLINNAGTLGDVSKGFLNINDLAEVNNYWALNLTSMLCLTTGTLNAFSNSPGLSKTVVNISSLCALQPFKGWGLYCAGKAARDMLYQVLAVEEPSVRVLSYAPGPLDTNMQQLARETSMDPELRSRLQKLNSEGELVDCGTSAQKLLSLLQRDTFQSGAHVDFYDI |
| 6120 | sp|P37107|SR54C\_ARATH | MEALQFSSVNRVPCTLSCTGNRRIKAAFSSAFTGGTINSASLSSSRNLSTREIWSWVKSKTVVGHGRYRRSQVRAEMFGQLTGGLEAAWSKLKGEEVLTKDNIAEPMRDIRRALLEADVSLPVVRRFVQSVSDQAVGMGVIRGVKPDQQLVKIVHDELVKLMGGEVSELQFAKSGPTVILLAGLQGVGKTTVCAKLACYLKKQGKSCMLIAGDVYRPAAIDQLVILGEQVGVPVYTAGTDVKPADIAKQGLKEAKKNNVDVVIMDTAGRLQIDKGMMDELKDVKKFLNPTEVLLVVDAMTGQEAAALVTTFNVEIGITGAILTKLDGDSRGGAALSVKEVSGKPIKLVGRGERMEDLEPFYPDRMAGRILGMGDVLSFVEKATEVMRQEDAEDLQKKIMSAKFDFNDFLKQTRAVAKMGSMTRVLGMIPGMGKVSPAQIREAEKNLLVMEAMIEVMTPEERERPELLAESPERRKRIAKDSGKTEQQVSALVAQIFQMRVKMKNLMGVMEGGSIPALSGLEDALKAEQKAPPGTARRKRKADSRKKFVESASSKPGPRGFGSGN |
| 6121 | sp|O35704|SPTC1\_MOUSE | MATVAEQWVLVEMVQALYEAPAYHLILEGILILWIIRLVFSKTYKLQERSDLTAKEKEELIEEWQPEPLVPPVSKNHPALNYNIVSGPPTHNIVVNGKECVNFASFNFLGLLANPRVKATAFSSLKKYGVGTCGPRGFYGTFDVHLDLEERLAKFMKTEEAIIYSYGFSTIASAIPAYSKRGDIIFVDSAACFAIQKGLQASRSDIKLFKHNDVADLERLLKEQEIEDQKNPRKARVTRRFIVVEGLYMNTGTICPLPELVKLKYKYKARIFLEESLSFGVLGEHGRGVTEHYGISIDDIDLISANMENALASVGGFCCGRSFVVDHQRLSGQGYCFSASLPPLLAAAAIEALNIMEENPDIFAVLKKKCQNIHKSLQGVSGLKVVGESLSPALHLQLEESTGSREKDVKLLQAIVDQCMDKGIALTQARYLDKEEKCLPPPSIRVVVTVEQTEEELQRAASTIREAAQAVLL |
| 6122 | sp|Q59TB2|SUV3\_CANAL | MLLCQKPTYRLLRYSVKRYVASLYSLRGVSTRVNLIHRTYATTVAKDNIDHNDSSPVFNNNEVRFENINASIHPILLDLKNKLIKGKFDSPYTILNDQPSDVKTEIFQSFEQQLSKALSSKSTPENKITLVDYLNPTLDNISSLLHLISNNTYPNNFLEFSNLSSNNDLIMQLFTQLLHKIFLQYRIENASFEKPKVDFSNPAEWFPEARKMKRKIIMHVGPTNSGKTYNSLIKLSKSKTGYYAGPLRLLAREIYEKFNSQGIGCNLITGEEVVPSIDKYGKVSGIASGTIEMIPLHKKMDLCVIDEIQMIADPLRGSVWTNAVLGVLAHEIHLCGEESAVPFIQKMVEITGDELEIKKFNRLGKLTVEKSNTSLQQLKKGDCLVVFSKKKILKFKCDIERNTRLKVGVIYGALPPEIRSQEASKFNNGEYDVLVASDAIGMGLNLKINRIVFSGVNKFNGSTVEKLSVSQVKQIAGRAGRFSAQHGSKEGFVTALHRSSLVYIDQCLKTPVSEISKACIWPTSNIWRQYMANDPHKSSLSSVYENFLTNVLKFQSDNFFISELDQKVQLLNLVAKNRLLSTMIIDDQLTISETPINFRTSVNPKLLKNTVIKFYETIVKRDCKSILDFDFLDLELLSQNSFVGTDVMVPLQKVDKLEDMHRLVLLFLWLSQRFPTLFIDKDSAMEVKALVEKRINQELVNVERANSFFSDRSNGYEPRR |
| 6123 | sp|Q9H3U7|SMOC2\_HUMAN | MLLPQLCWLPLLAGLLPPVPAQKFSALTFLRVDQDKDKDCSLDCAGSPQKPLCASDGRTFLSRCEFQRAKCKDPQLEIAYRGNCKDVSRCVAERKYTQEQARKEFQQVFIPECNDDGTYSQVQCHSYTGYCWCVTPNGRPISGTAVAHKTPRCPGSVNEKLPQREGTGKTDDAAAPALETQPQGDEEDIASRYPTLWTEQVKSRQNKTNKNSVSSCDQEHQSALEEAKQPKNDNVVIPECAHGGLYKPVQCHPSTGYCWCVLVDTGRPIPGTSTRYEQPKCDNTARAHPAKARDLYKGRQLQGCPGAKKHEFLTSVLDALSTDMVHAASDPSSSSGRLSEPDPSHTLEERVVHWYFKLLDKNSSGDIGKKEIKPFKRFLRKKSKPKKCVKKFVEYCDVNNDKSISVQELMGCLGVAKEDGKADTKKRHTPRGHAESTSNRQPRKQG |
| 6124 | sp|F1RAX4|STRA6\_DANRE | MSAETVNNYDYSDWYENAAPTKAPVEVIPPCDPTADEGLFHICIAAISLVVMLVLAILARRQKLSDNQRGLTGLLSPVNFLDHTQHKGLAVAVYGVLFCKLVGMVLSHHPLPFTKEVANKEFWMILALLYYPALYYPLLACGTLHNKVGYVLGSLLSWTHFGILVWQKVDCPKTPQIYKYYALFGSLPQIACLAFLSFQYPLLLFKGLQNTETANASEDLSSSYYRDYVKKILKKKKPTKISSSTSKPKLFDRLRDAVKSYIYTPEDVFRFPLKLAISVVVAFIALYQMALLLISGVLPTLHIVRRGVDENIAFLLAGFNIILSNDRQEVVRIVVYYLWCVEICYVSAVTLSCLVNLLMLMRSMVLHRSNLKGLYRGDSLNVFNCHRSIRPSRPALVCWMGFTSYQAAFLCLGMAIQTLVFFICILFAVFLIIIPILWGTNLMLFHIIGNLWPFWLTLVLAALIQHVASRFLFIRKDGGTRDLNNRGSLFLLSYILFLVNVMIGVVLGIWRVVITALFNIVHLGRLDISLLNRNVEAFDPGYRCYSHYLKIEVSQSHPVMKAFCGLLLQSSGQDGLSAQRIRDAEEGIQLVQQEKKQNKVSNAKRARAHWQLLYTLVNNPSLVGSRKHFQCQSSESFINGALSRTSKEGSKKDGSVNEPSKEAESAAASN |
| 6125 | sp|Q12933|TRAF2\_HUMAN | MAAASVTPPGSLELLQPGFSKTLLGTKLEAKYLCSACRNVLRRPFQAQCGHRYCSFCLASILSSGPQNCAACVHEGIYEEGISILESSSAFPDNAARREVESLPAVCPSDGCTWKGTLKEYESCHEGRCPLMLTECPACKGLVRLGEKERHLEHECPERSLSCRHCRAPCCGADVKAHHEVCPKFPLTCDGCGKKKIPREKFQDHVKTCGKCRVPCRFHAIGCLETVEGEKQQEHEVQWLREHLAMLLSSVLEAKPLLGDQSHAGSELLQRCESLEKKTATFENIVCVLNREVERVAMTAEACSRQHRLDQDKIEALSSKVQQLERSIGLKDLAMADLEQKVLEMEASTYDGVFIWKISDFARKRQEAVAGRIPAIFSPAFYTSRYGYKMCLRIYLNGDGTGRGTHLSLFFVVMKGPNDALLRWPFNQKVTLMLLDQNNREHVIDAFRPDVTSSSFQRPVNDMNIASGCPLFCPVSKMEAKNSYVRDDAIFIKAIVDLTGL |
| 6126 | sp|F8W2M8|TPP1\_DANRE | MRVAVFVLSFIWLVNGELLEADQDAVVPGDWTFLGRVGPLEEVELTFALKQQNVSKMEELLKLVSDPDSHQYGKYLSLDEVAALSRPSPLTEKVVENWLRSHGVMDCHTIITRDFLQCVMTVEVAEALLPGSKFHRFSKNTKTLLRSTSQYSVHEDVHQHLDFVGGVHRFPQKRKIVSKGWEGARQAILGYHLGVTPAVIRNRYNLTAKDVGTAANNSQAVAQFLEQYYHPADLAEFMSLFGGGFTHMSTVERVVGTQGGGKAGIEASLDVEYIMSSGANISTWVFTNPGRHESQEPFLQWMLLLSNMSAVPWVHTISYGDDEDSLSEAYMNRINIEFMKAGLRGISMLFASGDSGAGCRHLTKERNTFRPSFPASSPYVTTVGGTSFQNPFKLSYEVTDYISGGGFSNVFPMPDYQVDAVRAYLKSVQSLPPQTYFNTTGRAYPDLAALSDNYWVVSNRVPIPWVSGTSASTPVVGGILSLINDQRFLKGLPALGFINPRLYKMQGKGLYDVTVGCHLSCLDDKVEGKGFCASPSWDPVTGWGTPNYPVFLASLMD |
| 6127 | sp|B8X8Z0|TOXN\_PECAT | MKFYTISSKYIEYLKEFDDKVPNSEDPTYQNPKAFIGIVLEIQGHKYLAPLTSPKKWHNNVKESSLSCFKLHENGVPENQLGLINLKFMIPIIEAEVSLLDLGNMPNTPYKRMLYKQLQFIRANSDKIASKSDTLRNLVLQGKMQGTCNFSLLEEKYRDFGKEAEDTEEGE |
| 6128 | sp|O46374|TOP2A\_PIG | MEVSPLQPVNENMQVNKTKKNEEAKKRLSIERIYQKKTQLEHILLRPDTYIGSVESVTQQMWVYDEDIGINYREVTFVPGLYKIFDEILVNAADNKQRDPKMSCIRVTIDPENNLISIWNNGKGIPVVEHKVEKMYVPALIFGQLLTSSNYDDEEKKVTGGRNGYGAKLCNIFSTKFTVETASREYKKMFKQTWMDNMGRAGEMELKPFNGEDYTCITFHPDLSKFKMQSLDKDIVALMVRRAYDIAGSTKDVKVFLNGNKLPVKGFRSYVDLYLKDKVDETGNPLKIIHEQVNHRWEVCLTMSEKGFQQISFVNSIATSKGGRHVDYVADQIVAKLVDVVKKKNKGGVAVKAHQVKNHMWIFVNALIENPTFDSQTKENMTLQVKSFGSTCQLSEKFIKAAIGCGIVESILNWVKFKAQVQLNKKCSAVKHNRIKGIPKLDDANDAGGRNSTECTLILTEGDSAKTLAVSGLGVVGRDKYGVFPLRGKILNVREASHKQIMENAEINNIIKIVGLQYKKNYEDEDSLKTLRYGKIMIMTDQDQDGSHIKGLLINFIHHNWPSLLRHRFLEEFITPIVKVSKNKQEMAFYSLPEFEEWKSSTPNHKKWKVKYYKGLGTSTSKEAKEYFADMKRHRIQFKYSGPEDDAAISLAFSKKQIDDRKEWLTHFMEDRRQRKLLGLPEDYLYGQTTTYLTYNDFINKELILFSNSDNERSIPSMVDGLKPGQRKVLFTCFKRNDKREVKVAQLAGSVAEMSSYHHGEMSLMMTIINLAQNFVGSNNLNLLQPIGQFGTRLHGGKDSASPRYIFTMLSPLARLLFPPKDDHTLKFLYDDNQRVEPEWYIPIIPMVLINGAEGIGTGWSCKIPNFDVREVVNNIRLLMDGEEPLPMLPSYKNFKGTIEELAPNQYVISGEVAILNSTTIEISELPIRTWTQTYKEQVLEPMLNGTEKTPPLITDYREYHTDTTVKFVVKMTEEKLAEAERVGLHKVFKLQTSLTCNSMVLFDHVGCLKKYDTVLDILRDFFELRLKYYGLRKEWLLGMLGAESAKLNNQARFILEKIDGKIIIENKPKKELIKVLIQRGYDSDPVKAWKEAQQKVPDEEENEESDNEKEADKSDSVADSGPTFNYLLDMPLWYLTKEKKDELCKLRNEKEQELETLKRKSPSDLWKEDLAAFIEELEAVEAKEKQDEQIGLPGKGGKAKGKKTQMAEVLPSPCGKRVIPRVTVEMKAEAEKKIKKKIKSENTEGSPQEDGMEVEGLKQRLEKKQKREPGTKTKKQTTLPFKPIKKAKKRNPWSDSESDISSDESNFNVPPREKEPRRAAAKTKFTVDLDSDEDFSDADEKTRDEDFVPSDTSPQKAETSPKHTNKEPKPQKSTPSVSDFDADDAKDNVPPSPSSPVADFPAVTETIKPVSKKNVTVKKTAAKSQSSTSTTGAKKRAAPKGAKKDPDLDSDVSKKPNPPKPKGRRKRKPSTSDDSDSNFEKMISKAVTSKKPKGESDDFHLDLDLAVASRAKSGRTKKPIKYLEESDEDDLF |
| 6129 | sp|Q9Y6I4|UBP3\_HUMAN | MECPHLSSSVCIAPDSAKFPNGSPSSWCCSVCRSNKSPWVCLTCSSVHCGRYVNGHAKKHYEDAQVPLTNHKKSEKQDKVQHTVCMDCSSYSTYCYRCDDFVVNDTKLGLVQKVREHLQNLENSAFTADRHKKRKLLENSTLNSKLLKVNGSTTAICATGLRNLGNTCFMNAILQSLSNIEQFCCYFKELPAVELRNGKTAGRRTYHTRSQGDNNVSLVEEFRKTLCALWQGSQTAFSPESLFYVVWKIMPNFRGYQQQDAHEFMRYLLDHLHLELQGGFNGVSRSAILQENSTLSASNKCCINGASTVVTAIFGGILQNEVNCLICGTESRKFDPFLDLSLDIPSQFRSKRSKNQENGPVCSLRDCLRSFTDLEELDETELYMCHKCKKKQKSTKKFWIQKLPKVLCLHLKRFHWTAYLRNKVDTYVEFPLRGLDMKCYLLEPENSGPESCLYDLAAVVVHHGSGVGSGHYTAYATHEGRWFHFNDSTVTLTDEETVVKAKAYILFYVEHQAKAGSDKL |
| 6130 | sp|Q8IWV7|UBR1\_HUMAN | MADEEAGGTERMEISAELPQTPQRLASWWDQQVDFYTAFLHHLAQLVPEIYFAEMDPDLEKQEESVQMSIFTPLEWYLFGEDPDICLEKLKHSGAFQLCGRVFKSGETTYSCRDCAIDPTCVLCMDCFQDSVHKNHRYKMHTSTGGGFCDCGDTEAWKTGPFCVNHEPGRAGTIKENSRCPLNEEVIVQARKIFPSVIKYVVEMTIWEEEKELPPELQIREKNERYYCVLFNDEHHSYDHVIYSLQRALDCELAEAQLHTTAIDKEGRRAVKAGAYAACQEAKEDIKSHSENVSQHPLHVEVLHSEIMAHQKFALRLGSWMNKIMSYSSDFRQIFCQACLREEPDSENPCLISRLMLWDAKLYKGARKILHELIFSSFFMEMEYKKLFAMEFVKYYKQLQKEYISDDHDRSISITALSVQMFTVPTLARHLIEEQNVISVITETLLEVLPEYLDRNNKFNFQGYSQDKLGRVYAVICDLKYILISKPTIWTERLRMQFLEGFRSFLKILTCMQGMEEIRRQVGQHIEVDPDWEAAIAIQMQLKNILLMFQEWCACDEELLLVAYKECHKAVMRCSTSFISSSKTVVQSCGHSLETKSYRVSEDLVSIHLPLSRTLAGLHVRLSRLGAVSRLHEFVSFEDFQVEVLVEYPLRCLVLVAQVVAEMWRRNGLSLISQVFYYQDVKCREEMYDKDIIMLQIGASLMDPNKFLLLVLQRYELAEAFNKTISTKDQDLIKQYNTLIEEMLQVLIYIVGERYVPGVGNVTKEEVTMREIIHLLCIEPMPHSAIAKNLPENENNETGLENVINKVATFKKPGVSGHGVYELKDESLKDFNMYFYHYSKTQHSKAEHMQKKRRKQENKDEALPPPPPPEFCPAFSKVINLLNCDIMMYILRTVFERAIDTDSNLWTEGMLQMAFHILALGLLEEKQQLQKAPEEEVTFDFYHKASRLGSSAMNIQMLLEKLKGIPQLEGQKDMITWILQMFDTVKRLREKSCLIVATTSGSESIKNDEITHDKEKAERKRKAEAARLHRQKIMAQMSALQKNFIETHKLMYDNTSEMPGKEDSIMEEESTPAVSDYSRIALGPKRGPSVTEKEVLTCILCQEEQEVKIENNAMVLSACVQKSTALTQHRGKPIELSGEALDPLFMDPDLAYGTYTGSCGHVMHAVCWQKYFEAVQLSSQQRIHVDLFDLESGEYLCPLCKSLCNTVIPIIPLQPQKINSENADALAQLLTLARWIQTVLARISGYNIRHAKGENPIPIFFNQGMGDSTLEFHSILSFGVESSIKYSNSIKEMVILFATTIYRIGLKVPPDERDPRVPMLTWSTCAFTIQAIENLLGDEGKPLFGALQNRQHNGLKALMQFAVAQRITCPQVLIQKHLVRLLSVVLPNIKSEDTPCLLSIDLFHVLVGAVLAFPSLYWDDPVDLQPSSVSSSYNHLYLFHLITMAHMLQILLTVDTGLPLAQVQEDSEEAHSASSFFAEISQYTSGSIGCDIPGWYLWVSLKNGITPYLRCAALFFHYLLGVTPPEELHTNSAEGEYSALCSYLSLPTNLFLLFQEYWDTVRPLLQRWCADPALLNCLKQKNTVVRYPRKRNSLIELPDDYSCLLNQASHFRCPRSADDERKHPVLCLFCGAILCSQNICCQEIVNGEEVGACIFHALHCGAGVCIFLKIRECRVVLVEGKARGCAYPAPYLDEYGETDPGLKRGNPLHLSRERYRKLHLVWQQHCIIEEIARSQETNQMLFGFNWQLL |
| 6131 | sp|Q6A4J8|UBP7\_MOUSE | MNHQQQQQQQQKAGEQQLSEPEDMEMEAGDTDDPPRITQNPVINGNVTLSDGHSNAEEDMEDDTSWRSEATFQFTVERFSRLSESVLSPPCFVRNLPWKIMVMPRFYPDRPHQKSVGFFLQCNAESDSTSWSCHAQAVLKIINYRDDDKSFSRRISHLFFHEENDWGFSNFMAWSEVTDPEKGFIDDDKVTFEVFVQADAPHGVAWDSKKHTGYVGLKNQGATCYMNSLLQTLFFTNQLRKAVYMMPTEGDDSSKSVPLALQRVFYELQHSDKPVGTKKLTKSFGWETLDSFMQHDVQELCRVLLDNVENKMKGTCVEGTIPKLFRGKMVSYIQCKDVDYRSDRREDYYDIQLSIKGKKNIFESFVDYVAVEQLDGDNKYDAGEHGLQEAEKGVKFLTLPPVLHLQLMRFMYDPQTDQNIKINDRFEFPEQLPLDEFLQKTDPKDPANYILHAVLVHSGDNHGGHYVVYLNPKGDGKWCKFDDDVVSRCTKEEAIEHNYGGHDDDLSVRHCTNAYMLVYIRESKLSEVLQAVTDHDIPQQLVERLQEEKRIEAQKRKERQEAHLYMQVQIVAEDQFCGHQGNDMYDEEKVRYTVFKVLKNSSLAEFVQSLSQTMGFPQDQIRLWPMQARSNGTKRPAMLDNEADGNKTMIELSDNENPWTIFLETVDPELAASGATLPKFDKDHDVMLFLKMYDPKTRSLNYCGHIYTPISCKIRDLLPVMCDRAGFIQDTSLILYEEVKPNLTERIQDYDVSLDKALDELMDGDIIVFQKDDPENDNSELPTAKEYFRDLYHRVDVIFCDKTIPNDPGFVVTLSNRMNYFQVAKTVAQRLNTDPMLLQFFKSQGYRDGPGNPLRHNYEGTLRDLLQFFKPRQPKKLYYQQLKMKITDFENRRSFKCIWLNSQFREEEITLYPDKHGCVRDLLEECKKAVELGDKASGRLRLLEIVSYKIIGVHQEDELLECLSPATSRTFRIEEIPLDQVDIDKENEMLITVAHFHKEVFGTFGIPFLLRIHQGEHFREVMKRIQSLLDIQEKEFEKFKFAIVMMGRHQYINEDEYEVNLKDFEPQPGNMSHPRPWLGLDHFNKAPKRSRYTYLEKAIKIHN |
| 6132 | sp|O75348|VATG1\_HUMAN | MASQSQGIQQLLQAEKRAAEKVSEARKRKNRRLKQAKEEAQAEIEQYRLQREKEFKAKEAAALGSRGSCSTEVEKETQEKMTILQTYFRQNRDEVLDNLLAFVCDIRPEIHENYRING |
| 6133 | sp|G5EFV8|VPS52\_CAEEL | MPRTRVNLQKSEANDRSFTISSLEFCLSQLRKADPNLVKKAIASGDGLTESKNDVSTRLSEAHRYSVQQCLDNSEQLAQLHNQLVHCDNVFERLQATLYSFQDNLGSIGQDMKNLQLQSHHIHQELENRQKVRVELSQFVDDIAVSQTMMKTINDTDANDRGFLEALHELHHKITLILQRGNGDAVAVNDTMPILEGLKLKAVVKVREWLLQKMFQFRKPLSNYQVFQHQLLKCRFFYEFLLHHDLISAKELQDEYIDTISKMFFTYFKAYATRLFKLAMKDVATKEDALGSIDFAKPAGLGAIFSSKQHVVRNKATVFSIGQRHQILSDDFLGALIVPHAATQNHQSYQFEALFRSIQLAFVDHYSHEYLFITDFFLVSNDEAIELHNKAMARAMSVVLKSCEEQIALSWDAISLHLCICLCDKFTEVLAEREVPEVSDYWNTVTSFLWTRLNLVMSQHYESVKSVDLKKLMHSGSLDARPHFIVRRYAELTSAHLMIAKASGKEMGAKMEAVLENSEDSIEQLLTRMSAMQQTQKNKHVFLINNYDLILSIIDNEESKHTKIYAIVHELEQKSIDDFVEEMLEPHIGYMIKFVNECESLIVQGHTQLLVRYNDKVGTVVANFNAKWRPAVDSINSECIQLFTNFSLGTTILQTIFTKYVQYINRFTKILSHDVFAKNPVCSQLVNVHQVMLEIKRFKPAY |
| 6134 | sp|P35918|VGFR2\_MOUSE | MESKALLAVALWFCVETRAASVGLPGDFLHPPKLSTQKDILTILANTTLQITCRGQRDLDWLWPNAQRDSEERVLVTECGGGDSIFCKTLTIPRVVGNDTGAYKCSYRDVDIASTVYVYVRDYRSPFIASVSDQHGIVYITENKNKTVVIPCRGSISNLNVSLCARYPEKRFVPDGNRISWDSEIGFTLPSYMISYAGMVFCEAKINDETYQSIMYIVVVVGYRIYDVILSPPHEIELSAGEKLVLNCTARTELNVGLDFTWHSPPSKSHHKKIVNRDVKPFPGTVAKMFLSTLTIESVTKSDQGEYTCVASSGRMIKRNRTFVRVHTKPFIAFGSGMKSLVEATVGSQVRIPVKYLSYPAPDIKWYRNGRPIESNYTMIVGDELTIMEVTERDAGNYTVILTNPISMEKQSHMVSLVVNVPPQIGEKALISPMDSYQYGTMQTLTCTVYANPPLHHIQWYWQLEEACSYRPGQTSPYACKEWRHVEDFQGGNKIEVTKNQYALIEGKNKTVSTLVIQAANVSALYKCEAINKAGRGERVISFHVIRGPEITVQPAAQPTEQESVSLLCTADRNTFENLTWYKLGSQATSVHMGESLTPVCKNLDALWKLNGTMFSNSTNDILIVAFQNASLQDQGDYVCSAQDKKTKKRHCLVKQLIILERMAPMITGNLENQTTTIGETIEVTCPASGNPTPHITWFKDNETLVEDSGIVLRDGNRNLTIRRVRKEDGGLYTCQACNVLGCARAETLFIIEGAQEKTNLEVIILVGTAVIAMFFWLLLVILVRTVKRANEGELKTGYLSIVMDPDELPLDERCERLPYDASKWEFPRDRLKLGKPLGRGAFGQVIEADAFGIDKTATCKTVAVKMLKEGATHSEHRALMSELKILIHIGHHLNVVNLLGACTKPGGPLMVIVEFSKFGNLSTYLRGKRNEFVPYKSKGARFRQGKDYVGELSVDLKRRLDSITSSQSSASSGFVEEKSLSDVEEEEASEELYKDFLTLEHLICYSFQVAKGMEFLASRKCIHRDLAARNILLSEKNVVKICDFGLARDIYKDPDYVRKGDARLPLKWMAPETIFDRVYTIQSDVWSFGVLLWEIFSLGASPYPGVKIDEEFCRRLKEGTRMRAPDYTTPEMYQTMLDCWHEDPNQRPSFSELVEHLGNLLQANAQQDGKDYIVLPMSETLSMEEDSGLSLPTSPVSCMEEEEVCDPKFHYDNTAGISHYLQNSKRKSRPVSVKTFEDIPLEEPEVKVIPDDSQTDSGMVLASEELKTLEDRNKLSPSFGGMMPSKSRESVASEGSNQTSGYQSGYHSDDTDTTVYSSDEAGLLKMVDAAVHADSGTTLQLTSCLNGSGPVPAPPPTPGNHERGAA |
| 6135 | sp|Q00341|VIGLN\_HUMAN | MSSVAVLTQESFAEHRSGLVPQQIKVATLNSEEESDPPTYKDAFPPLPEKAACLESAQEPSGAWGNKIRPIKASVITQVFHVPLEERKYKDMNQFGEGEQAKICLEIMQRTGAHLELSLAKDQGLSIMVSGKLDAVMKARKDIVARLQTQASATVAIPKEHHRFVIGKNGEKLQDLELKTATKIQIPRPDDPSNQIKITGTKEGIEKARHEVLLISAEQDKRAVERLEVEKAFHPFIAGPYNRLVGEIMQETGTRINIPPPSVNRTEIVFTGEKEQLAQAVARIKKIYEEKKKKTTTIAVEVKKSQHKYVIGPKGNSLQEILERTGVSVEIPPSDSISETVILRGEPEKLGQALTEVYAKANSFTVSSVAAPSWLHRFIIGKKGQNLAKITQQMPKVHIEFTEGEDKITLEGPTEDVNVAQEQIEGMVKDLINRMDYVEINIDHKFHRHLIGKSGANINRIKDQYKVSVRIPPDSEKSNLIRIEGDPQGVQQAKRELLELASRMENERTKDLIIEQRFHRTIIGQKGERIREIRDKFPEVIINFPDPAQKSDIVQLRGPKNEVEKCTKYMQKMVADLVENSYSISVPIFKQFHKNIIGKGGANIKKIREESNTKIDLPAENSNSETIIITGKRANCEAARSRILSIQKDLANIAEVEVSIPAKLHNSLIGTKGRLIRSIMEECGGVHIHFPVEGSGSDTVVIRGPSSDVEKAKKQLLHLAEEKQTKSFTVDIRAKPEYHKFLIGKGGGKIRKVRDSTGARVIFPAAEDKDQDLITIIGKEDAVREAQKELEALIQNLDNVVEDSMLVDPKHHRHFVIRRGQVLREIAEEYGGVMVSFPRSGTQSDKVTLKGAKDCVEAAKKRIQEIIEDLEAQVTLECAIPQKFHRSVMGPKGSRIQQITRDFSVQIKFPDREENAVHSTEPVVQENGDEAGEGREAKDCDPGSPRRCDIIIISGRKEKCEAAKEALEALVPVTIEVEVPFDLHRYVIGQKGSGIRKMMDEFEVNIHVPAPELQSDIIAITGLAANLDRAKAGLLERVKELQAEQEDRALRSFKLSVTVDPKYHPKIIGRKGAVITQIRLEHDVNIQFPDKDDGNQPQDQITITGYEKNTEAARDAILRIVGELEQMVSEDVPLDHRVHARIIGARGKAIRKIMDEFKVDIRFPQSGAPDPNCVTVTGLPENVEEAIDHILNLEEEYLADVVDSEALQVYMKPPAHEEAKAPSRGFVVRDAPWTASSSEKAPDMSSSEEFPSFGAQVAPKTLPWGPKR |
| 6136 | sp|Q9UK41|VPS28\_HUMAN | MFHGIPATPGIGAPGNKPELYEEVKLYKNAREREKYDNMAELFAVVKTMQALEKAYIKDCVSPSEYTAACSRLLVQYKAAFRQVQGSEISSIDEFCRKFRLDCPLAMERIKEDRPITIKDDKGNLNRCIADVVSLFITVMDKLRLEIRAMDEIQPDLRELMETMHRMSHLPPDFEGRQTVSQWLQTLSGMSASDELDDSQVRQMLFDLESAYNAFNRFLHA |
| 6137 | sp|P85975|VMPAR\_HIPPR | AYDPDPYKRYSAEHTFFLL |
| 6138 | sp|B1AQJ2|UBP36\_MOUSE | MPIVDKLKEALKPGRKDSAEDGDLGRLLAASAKKVLLQRIEFEPASKSFSYQLESLKSKYVLLSARAEGASRHRSGDELQARKPGTERVSGSGGDGVPAPQKVLFPVERLSLRWERVFRVGAGLHNLGNTCFLNSTIQCLTYTPPLANYLLSKEHARSCHQGGFCMLCLMQNHMVQAFANSGNAIKPVSFIRDLKKIARHFRFGNQEDAHEFLRYTIDAMQKACLNGYAKLDRQTQATTLVHQIFGGYLRSRVKCSVCKSVSDTYDPYLDIALEIRQAANIVRALELFVKSDVLSGENAYMCAKCKKKVPASKRFTIHRTSNVLTLSLKRFANFSGGKITKDVGYPEFLNIRPYMSQSSGDPVMYGLYAVLVHSGYSCHAGHYYCYVKASNGQWYQMNDSLVHSSNVKVVLNQQAYVLFYLRIPGSKKSPEGPVSRVGATLPSRPKVVPEHSKKSPGNGVVPSPLMAKRQDSVMMRKLPAPEEVGVPVSRNGSLPGLKLQNGCAPAKTPAGSPSPRLTPTPTHMPTILDEPGKKVKKSAPLQSLTTSPTTSQGSPGTGESRSQRPGSWASRDTIFSTSPKLLARAITNGHRLKGEGSGVDLEKGDSSSSSPEHSASSDPAKAPQTAESRAAHACDSQGTNCPTAGHPKALLNGVDAKMVKLKSPALSSTTTEPTSLMSPPPAKKLALSAKKASTLRRATGNDIGSPSPSAFCDLTSPMKATHPVVASTGPVSKTRTAAPAPRPSTHPHSASLSSSSAKPLGTSEPQSCRPSAWTPLPQVNGHFTSHLHQLPEASEALHSPSKKRKKTPNGDPQRLGIDTLLPQCLRGAPAAARRKRKKRCSEGEGATAPKQEGQFQDQSWSSGSQKEEGTQPQVNGHQVSHILDSYHVSSRKRRKRKRSEGLSQEATPSQDLIQHSCSPVDHSEPEARTELQKKKKKKRRKRKPEPQQDEESKHPGDQRSPRPSVTPVPALSVNGHLPSDCLGLGQAPLVTWNRDQEPDVVQALLQDSSDKAYGKKVLTWDGEPSAISQDAIKDSRLARTQTVVDDWDEEFDRGKEKKIKKFKREKKRNFNAFQKLQSRRNFWSVTHPAKVASLSYRR |
| 6139 | sp|P18206|VINC\_HUMAN | MPVFHTRTIESILEPVAQQISHLVIMHEEGEVDGKAIPDLTAPVAAVQAAVSNLVRVGKETVQTTEDQILKRDMPPAFIKVENACTKLVQAAQMLQSDPYSVPARDYLIDGSRGILSGTSDLLLTFDEAEVRKIIRVCKGILEYLTVAEVVETMEDLVTYTKNLGPGMTKMAKMIDERQQELTHQEHRVMLVNSMNTVKELLPVLISAMKIFVTTKNSKNQGIEEALKNRNFTVEKMSAEINEIIRVLQLTSWDEDAWASKDTEAMKRALASIDSKLNQAKGWLRDPSASPGDAGEQAIRQILDEAGKVGELCAGKERREILGTCKMLGQMTDQVADLRARGQGSSPVAMQKAQQVSQGLDVLTAKVENAARKLEAMTNSKQSIAKKIDAAQNWLADPNGGPEGEEQIRGALAEARKIAELCDDPKERDDILRSLGEISALTSKLADLRRQGKGDSPEARALAKQVATALQNLQTKTNRAVANSRPAKAAVHLEGKIEQAQRWIDNPTVDDRGVGQAAIRGLVAEGHRLANVMMGPYRQDLLAKCDRVDQLTAQLADLAARGEGESPQARALASQLQDSLKDLKARMQEAMTQEVSDVFSDTTTPIKLLAVAATAPPDAPNREEVFDERAANFENHSGKLGATAEKAAAVGTANKSTVEGIQASVKTARELTPQVVSAARILLRNPGNQAAYEHFETMKNQWIDNVEKMTGLVDEAIDTKSLLDASEEAIKKDLDKCKVAMANIQPQMLVAGATSIARRANRILLVAKREVENSEDPKFREAVKAASDELSKTISPMVMDAKAVAGNISDPGLQKSFLDSGYRILGAVAKVREAFQPQEPDFPPPPPDLEQLRLTDELAPPKPPLPEGEVPPPRPPPPEEKDEEFPEQKAGEVINQPMMMAARQLHDEARKWSSKPGIPAAEVGIGVVAEADAADAAGFPVPPDMEDDYEPELLLMPSNQPVNQPILAAAQSLHREATKWSSKGNDIIAAAKRMALLMAEMSRLVRGGSGTKRALIQCAKDIAKASDEVTRLAKEVAKQCTDKRIRTNLLQVCERIPTISTQLKILSTVKATMLGRTNISDEESEQATEMLVHNAQNLMQSVKETVREAEAASIKIRTDAGFTLRWVRKTPWYQ |
| 6140 | sp|P48616|VIME\_BOVIN | MSTRSVSSSSYRRMFGGPGTASRPSSTRSYVTTSTRTYSLGSALRPTTSRTLYTSSPGGVYATRSSAVRLRSGVPGVRLLQDSVDFSLADAINTEFKNTRTNEKVELQELNDRFANYIDKVRFLEQQNKILLAELEQLKGQGKSRLGDLYEEEMRELRRQVDQLTNDKARVEVERDNLAEDIMRLREKLQEEMLQREEAESTLQSFRQDVDNASLARLDLERKVESLQEEIAFLKKLHDEEIQELQAQIQEQHVQIDMDVSKPDLTAALRDVRQQYESVAAKNLQEAEEWYKSKFADLSEAANRNNDALRQAKQESNEYRRQVQTLTCEVDALKGTNESLERQMREMEENFSVEAANYQDTIGRLQDEIQNMKEEMARHLREYQDLLNVKMALDIEIATYRKLLEGEESRISLPLPNFSSLNLRETNLDSLPLVDTHSKRTLLIKTVETRDGQVINETSQHHDDLE |
| 6141 | sp|Q06385|VPS74\_YEAST | MSTLQRRRVNRADSGDTSSIHSSANNTKGDKIANIAVDGDDDNGTNKKIAYDPEESKLRDNINIPTLTLMEEVLLMGLRDREGYLSFWNDSISYALRGCIIIELALRGKIRILDDSARKRFDLSERLIEVIDSSKTGEVLLDETLQLMKNDEPLSISNWIDLLSGETWNLLKINYQLKQVRERLAKGLVDKGVLRTEMKNFFLFDMATHPIADASCKEAIKRRVLSVLVSRNMELSYNEYFPETTSFKIIRTLALICGSYGANVLENVLTTLEYEKRDKAISRAEEIMAQFSQYPFDLEKETELGVSVNLNKEVKEEIENNPGHDLQLEVIAGVFEVFSRMDMLL |
| 6142 | sp|Q96AX1|VP33A\_HUMAN | MAAHLSYGRVNLNVLREAVRRELREFLDKCAGSKAIVWDEYLTGPFGLIAQYSLLKEHEVEKMFTLKGNRLPAADVKNIIFFVRPRLELMDIIAENVLSEDRRGPTRDFHILFVPRRSLLCEQRLKDLGVLGSFIHREEYSLDLIPFDGDLLSMESEGAFKECYLEGDQTSLYHAAKGLMTLQALYGTIPQIFGKGECARQVANMMIRMKREFTGSQNSIFPVFDNLLLLDRNVDLLTPLATQLTYEGLIDEIYGIQNSYVKLPPEKFAPKKQGDGGKDLPTEAKKLQLNSAEELYAEIRDKNFNAVGSVLSKKAKIISAAFEERHNAKTVGEIKQFVSQLPHMQAARGSLANHTSIAELIKDVTTSEDFFDKLTVEQEFMSGIDTDKVNNYIEDCIAQKHSLIKVLRLVCLQSVCNSGLKQKVLDYYKREILQTYGYEHILTLHNLEKAGLLKPQTGGRNNYPTIRKTLRLWMDDVNEQNPTDISYVYSGYAPLSVRLAQLLSRPGWRSIEEVLRILPGPHFEERQPLPTGLQKKRQPGENRVTLIFFLGGVTFAEIAALRFLSQLEDGGTEYVIATTKLMNGTSWIEALMEKPF |
| 6143 | sp|P15498|VAV\_HUMAN | MELWRQCTHWLIQCRVLPPSHRVTWDGAQVCELAQALRDGVLLCQLLNNLLPHAINLREVNLRPQMSQFLCLKNIRTFLSTCCEKFGLKRSELFEAFDLFDVQDFGKVIYTLSALSWTPIAQNRGIMPFPTEEESVGDEDIYSGLSDQIDDTVEEDEDLYDCVENEEAEGDEIYEDLMRSEPVSMPPKMTEYDKRCCCLREIQQTEEKYTDTLGSIQQHFLKPLQRFLKPQDIEIIFINIEDLLRVHTHFLKEMKEALGTPGAANLYQVFIKYKERFLVYGRYCSQVESASKHLDRVAAAREDVQMKLEECSQRANNGRFTLRDLLMVPMQRVLKYHLLLQELVKHTQEAMEKENLRLALDAMRDLAQCVNEVKRDNETLRQITNFQLSIENLDQSLAHYGRPKIDGELKITSVERRSKMDRYAFLLDKALLICKRRGDSYDLKDFVNLHSFQVRDDSSGDRDNKKWSHMFLLIEDQGAQGYELFFKTRELKKKWMEQFEMAISNIYPENATANGHDFQMFSFEETTSCKACQMLLRGTFYQGYRCHRCRASAHKECLGRVPPCGRHGQDFPGTMKKDKLHRRAQDKKRNELGLPKMEVFQEYYGLPPPPGAIGPFLRLNPGDIVELTKAEAEQNWWEGRNTSTNEIGWFPCNRVKPYVHGPPQDLSVHLWYAGPMERAGAESILANRSDGTFLVRQRVKDAAEFAISIKYNVEVKHIKIMTAEGLYRITEKKAFRGLTELVEFYQQNSLKDCFKSLDTTLQFPFKEPEKRTISRPAVGSTKYFGTAKARYDFCARDRSELSLKEGDIIKILNKKGQQGWWRGEIYGRVGWFPANYVEEDYSEYC |
| 6144 | sp|Q5BBX1|VOSA\_EMENI | MSAANYPDPSLPRPSTSDDFELIVRQNPNRARVAGGKEKERKPVDPPPIVQIRVREEGTYLAQHYLQSPYFFMSCSLYDAQEDAPASIPPSTALTGTLVSSLHRLKDVDNTDGGFFVWGDLSIKVEGDFRLKFSLFEMRKTDVVFLKSIVSERFTVSPPKSFPGMAESTFLSRSFADQGVKLRIRKEPRTLIKRTAPRPEEYPQAAIPRSPSDRTAMQIPGSSYPAPPYQPTSRDYSYYAPVKRQRTSVDYGARGMYDADGRMRQMETYPQTATLYGQPGGYPTPMMGYPSGHGGVPDYAMSYGLPPSAQVPQMQDPAAQSRSSQQATMQSLGMVNPPGTPTPDSARAMMQQAYPRPQYSASTAVLPPLQQSRNYPQGTNGATRGYYEQSPQATPILPSQPLGTSEAERYGVPPGHTGYDHTGSANGTPR |
| 6145 | sp|Q8C5G2|VASH2\_MOUSE | MTGSAADTHRCPHPKITKGTRSRSSHARPVSLATSGGSEEEDKDGGVLFHVNKSGFPIDSHTWERMWLHVAKVHPRGGEMVGAIRNAAFLAKPSIPQVPNYRLSMTIPDWLQAIQNYMKTLQYNHTGTQFFEIRKMRPLSGLMETAKEMTRESLPIKCLEAVILGIYLTNGQPSIERFPISFKTYFSGNYFHHVVLGIYCNGYYGSLGMSRRAELMDKPLTFRTLSDLVFDFEDSYKKYLHTVKKVKIGLYVPHEPHSFQPIEWKQLVLNVSKMLRADIRKELEKYARDMRMKILKPASAHSPTQVRSRGKSLSPRRRQASPPRRLGRRDKSPALTEKKVADLGTLNEVGYQIRI |
| 6146 | sp|Q7T046|VM3CX\_MACLB | MMQVLLVTISLAVFPYQGSSIILESGNVNDYEVVYPQKITALPEEAVQQPEQKYEDTMQYEFEVNGEPVVLHLEKNKDLFSEDYSETRYSPDGRETTTKPPVQDHCYYHGRIQNDAYSSASISACNGLKGHFKLQGETYLIEPLKIPDSEAHAVYKYENIEKEDEAPKMCGVTQTNWESDEPIKKASQLVATSAKRKFHKTFIELVIVVDHRVVKKYDSAATNTKIYEIVNTVNEIFIPLNIRLTLIGVEFWCNRDLINVTSSADDTLDSFGEWRGSDLLNRKRHDNAQLFTDMKFDLSTLGITFLDGMCQAYRSVGIVQEHGNKNFKTAVIMAHELGHNLGMYHDRKNCICNDSSCIMSAVLSSQPSKLFSNCSNHDYRRYLTTYKPKCILNPPLRKDIASPPICGNEIWEEGEECDCGSPKDCQNPCCDAATCKLTPGAECGNGLCCEKCKIKTAGTVCRRARDECDVPEHCTGQSAECPADGFHANGQPCQNNNGYCYNGDCPIMTKQCISLFGSRATVAEDSCFQENQKGSYYGYCRKENGRKIPCAPQDIKCGRLYCLDNSPGNKNPCKMHYRCRDQHKGMVEPGTKCEDGKVCNNKRQCVDVNTAY |
| 6147 | sp|Q8C1W1|VASH1\_MOUSE | MPGGKKVVPSGSSSASPNAAATTTAAAAAAAAAPHSGTKRLETTEGASAQRDEEPEEEGEEDLRDGGVPFFINRGGLPVDEATWERMWKHVAKIHPDGEKVALRIRGATDLPKIPIPSVPTFQPTTPVPERLEAVQRYIRELQYNHTGTQFFEIKKSRPLTGLMDLAKEMTKEALPIKCLEAVILGIYLTNSMPTLERFPISFKTYFSGNYFRHIVLGVNFGGRYGALGMSRREDLMYKPPAFRTLSELVLDYEAAYGRCWHVLKKVKLGQCVSHDPHSVEQIEWKHSVLDVERLGREDFRKELERHARDMRLKIGKGTGPPSPTKDRKKDVSSPQRAQSSPHRRNSRSERRPSGEKKPAEPKAMPDLSGYQIRV |
| 6148 | sp|O35304|VACHT\_MOUSE | MEPTAPTGQARAAATKLSEAVGAALQEPQRQRRLVLVIVCVALLLDNMLYMVIVPIVPDYIAHMRGGSESPTLISEVWEPTLPPPTLANASAYLANTSASPTAAGSARSILRPRYPTESEDVKIGVLFASKAILQLLVNPLSGPFIDRMSYDVPLLIGLGVMFASTVMFAFAEDYATFFAARSLQGLGSAFADTSGIAMIADKYPEEPERSRALGVALAFISFGSLVAPPFGGILYEFAGKRVPFLVLAAVSLFDALLLLAVAKPFSAAARARANLPVGTPIHRLMLDPYIAVVAGALTTCNIPLAFLEPTIATWMKHTMAASEWEMGMVWLPAFVPHVLGVYLTVRLAARYPHLQWLYGALGLAVIGVSSCVVPACRSFAPLVVSLCGLCFGIALVDTALLPTLAFLVDVRHVSVYGSVYAIADISYSVAYALGPIVAGHIVHSLGFEQLSLGMGLANLLYAPVLLLLRNVGLLTRSRSERDVLLDEPPQGLYDAVRLREVQGKDGGEPCSPPGPFDGCEDDYNYYSRS |
| 6149 | sp|P63025|VAMP3\_RAT | MSTGVPSGSSAATGSNRRLQQTQNQVDEVVDIMRVNVDKVLERDQKLSELDDRADALQAGASQFETSAAKLKRKYWWKNCKMWAIGISVLVIIVIIIIVWCVS |
| 6150 | sp|P0DOF0|X\_BDVV | MSSDLRLTLLELVRRLNGNATIESGRLPGGRRRSPDTTTGTTGVTKTTEGPKECIDPTSRPAPEGPQEEPLHDLRPRPANRKGAAVE |
| 6151 | sp|Q8K245|UVRAG\_MOUSE | MSSCASLGGPVPLPPPGPSAALTSGAPARALHVELPSQQRRLRHLRNIAARNIVNRNGHQLLDTYFTLHLCDNEKIFKEFYRSEVIKNSLNPTWRSLDFGIMPDRLDTSVSCFVVKIWGGKEEAFQLLIEWKVYLDGLKYLGQQIHARNQNEIIFGLNDGYYGAPCEHKGHPNAQKNLLQVDQNCVRNSYDVFSLLRLHRAQCAIKQTQVTVQRLGKEIEEKLRLTSTSNELKKESECLRLKILVLRNELERQKKALGREVAFLHKQQMALQDKGSAFSTEHGKLQLQKDSLSELRKECTAKRELFLKTNAQLTIRCRQLLSELSYIYPIDLNENKDYFVCGVKLPNSEDFQAKDDGSIAVALGYTAHLVSMISFFLQVPLRYPIIHKGSRSTIKDNINDKLTEKEREFPLYPKGGEKLQFDYGVYLLNKNIAQLRYQHGLGTPDLRQTLPNLKNFMEHGLMVRCDRHHISNAIPVPKRQSSTFGGADGGFSAGIPSPDKVHRKRASSENERLQYKTPPPSYNSALTQPGVAMPTSGDSERKVAPLSSSLDTSLDFSKENKKAGVDLGSSVSGDHGNSDSGQEQGEALPGHLAAVNGTALPSEQAGPAGTLLPGSCHPAPSAELCCAVEQAEEIIGLEATGFTSGDQLEALSCIPVDSAVAVECDEQVLGEFEEFSRRIYALSENVSSFRRPRRSSDK |
| 6152 | sp|Q9HBM0|VEZA\_HUMAN | MTPEFDEEVVFENSPLYQYLQDLGHTDFEICSSLSPKTEKCTTEGQQKPPTRVLPKQGILLKVAETIKSWIFFSQCNKKDDLLHKLDIGFRLDSLHTILQQEVLLQEDVELIELLDPSILSAGQSQQQENGHLPTLCSLATPNIWDLSMLFAFISLLVMLPTWWIVSSWLVWGVILFVYLVIRALRLWRTAKLQVTLKKYSVHLEDMATNSRAFTNLVRKALRLIQETEVISRGFTLVSAACPFNKAGQHPSQHLIGLRKAVYRTLRANFQAARLATLYMLKNYPLNSESDNVTNYICVVPFKELGLGLSEEQISEEEAHNFTDGFSLPALKVLFQLWVAQSSEFFRRLALLLSTANSPPGPLLTPALLPHRILSDVTQGLPHAHSACLEELKRSYEFYRYFETQHQSVPQCLSKTQQKSRELNNVHTAVRSLQLHLKALLNEVIILEDELEKLVCTKETQELVSEAYPILEQKLKLIQPHVQASNNCWEEAISQVDKLLRRNTDKKGKPEIACENPHCTVVPLKQPTLHIADKDPIPEEQELEAYVDDIDIDSDFRKDDFYYLSQEDKERQKREHEESKRVLQELKSVLGFKASEAERQKWKQLLFSDHAVLKSLSPVDPVEPISNSEPSMNSDMGKVSKNDTEEESNKSATTDNEISRTEYLCENSLEGKNKDNSSNEVFPQGAEERMCYQCESEDEPQADGSGLTTAPPTPRDSLQPSIKQRLARLQLSPDFTFTAGLAAEVAARSLSFTTMQEQTFGGEEEEQIIEENKNEIEEK |
| 6153 | sp|Q01831|XPC\_HUMAN | MARKRAAGGEPRGRELRSQKSKAKSKARREEEEEDAFEDEKPPKKSLLSKVSQGKRKRGCSHPGGSADGPAKKKVAKVTVKSENLKVIKDEALSDGDDLRDFPSDLKKAHHLKRGATMNEDSNEEEEESENDWEEVEELSEPVLGDVRESTAFSRSLLPVKPVEIEIETPEQAKTRERSEKIKLEFETYLRRAMKRFNKGVHEDTHKVHLLCLLANGFYRNNICSQPDLHAIGLSIIPARFTRVLPRDVDTYYLSNLVKWFIGTFTVNAELSASEQDNLQTTLERRFAIYSARDDEELVHIFLLILRALQLLTRLVLSLQPIPLKSATAKGKKPSKERLTADPGGSSETSSQVLENHTKPKTSKGTKQEETFAKGTCRPSAKGKRNKGGRKKRSKPSSSEEDEGPGDKQEKATQRRPHGRERRVASRVSYKEESGSDEAGSGSDFELSSGEASDPSDEDSEPGPPKQRKAPAPQRTKAGSKSASRTHRGSHRKDPSLPAASSSSSSSKRGKKMCSDGEKAEKRSIAGIDQWLEVFCEQEEKWVCVDCVHGVVGQPLTCYKYATKPMTYVVGIDSDGWVRDVTQRYDPVWMTVTRKCRVDAEWWAETLRPYQSPFMDREKKEDLEFQAKHMDQPLPTAIGLYKNHPLYALKRHLLKYEAIYPETAAILGYCRGEAVYSRDCVHTLHSRDTWLKKARVVRLGEVPYKMVKGFSNRARKARLAEPQLREENDLGLFGYWQTEEYQPPVAVDGKVPRNEFGNVYLFLPSMMPIGCVQLNLPNLHRVARKLDIDCVQAITGFDFHGGYSHPVTDGYIVCEEFKDVLLTAWENEQAVIERKEKEKKEKRALGNWKLLAKGLLIRERLKRRYGPKSEAAAPHTDAGGGLSSDEEEGTSSQAEAARILAASWPQNREDEEKQKLKGGPKKTKREKKAAASHLFPFEQL |
| 6154 | sp|O55145|X3CL1\_RAT | MAPSQLAWLLRLAAFFHLCTLLAGQHLGMTKCNITCHKMTSPIPVTLLIHYQLNQESCGKRAIILETRQHRHFCADPKEKWVQDAMKHLDHQTAALTRNGGKFEKRVDNVTPRITSATRGLSPTALAKPESATVEDLTLEPTAISQEARRPMGTSQEPPAAVTGSSPSTSKAQDAGLAAKPQSTGISEVAAVSTTIWPSSAVYQSGSSLWAEEKATESPPTIALSTQASTTSSPKQNVGSEGQPPWVQEQDSTPEKSPGPEETNPVHTDIFQDRGPGSTVHPSVAPTSSEKTPSPELVASGSQAPKVEEPIHATADPQKLSVFITPVPDSQAATRRQAVGLLAFLGLLFCLGVAMFAYQSLQGCPRKMAGEMVEGLRYVPRSCGSNSYVLVPV |
| 6155 | sp|Q5GFL6|VWA2\_HUMAN | MPPFLLLEAVCVFLFSRVPPSLPLQEVHVSKETIGKISAASKMMWCSAAVDIMFLLDGSNSVGKGSFERSKHFAITVCDGLDISPERVRVGAFQFSSTPHLEFPLDSFSTQQEVKARIKRMVFKGGRTETELALKYLLHRGLPGGRNASVPQILIIVTDGKSQGDVALPSKQLKERGVTVFAVGVRFPRWEELHALASEPRGQHVLLAEQVEDATNGLFSTLSSSAICSSATPDCRVEAHPCEHRTLEMVREFAGNAPCWRGSRRTLAVLAAHCPFYSWKRVFLTHPATCYRTTCPGPCDSQPCQNGGTCVPEGLDGYQCLCPLAFGGEANCALKLSLECRVDLLFLLDSSAGTTLDGFLRAKVFVKRFVRAVLSEDSRARVGVATYSRELLVAVPVGEYQDVPDLVWSLDGIPFRGGPTLTGSALRQAAERGFGSATRTGQDRPRRVVVLLTESHSEDEVAGPARHARARELLLLGVGSEAVRAELEEITGSPKHVMVYSDPQDLFNQIPELQGKLCSRQRPGCRTQALDLVFMLDTSASVGPENFAQMQSFVRSCALQFEVNPDVTQVGLVVYGSQVQTAFGLDTKPTRAAMLRAISQAPYLGGVGSAGTALLHIYDKVMTVQRGARPGVPKAVVVLTGGRGAEDAAVPAQKLRNNGISVLVVGVGPVLSEGLRRLAGPRDSLIHVAAYADLRYHQDVLIEWLCGEAKQPVNLCKPSPCMNEGSCVLQNGSYRCKCRDGWEGPHCENRFLRRP |
| 6156 | sp|P29788|VTNC\_MOUSE | MAPLRPFFILALVAWVSLADQESCKGRCTQGFMASKKCQCDELCTYYQSCCADYMEQCKPQVTRGDVFTMPEDDYWSYDYVEEPKNNTNTGVQPENTSPPGDLNPRTDGTLKPTAFLDPEEQPSTPAPKVEQQEEILRPDTTDQGTPEFPEEELCSGKPFDAFTDLKNGSLFAFRGQYCYELDETAVRPGYPKLIQDVWGIEGPIDAAFTRINCQGKTYLFKGSQYWRFEDGVLDPGYPRNISEGFSGIPDNVDAAFALPAHRYSGRERVYFFKGKQYWEYEFQQQPSQEECEGSSLSAVFEHFALLQRDSWENIFELLFWGRSSDGAREPQFISRNWHGVPGKVDAAMAGRIYVTGSLSHSAQAKKQKSKRRSRKRYRSRRGRGHRRSQSSNSRRSSRSIWFSLFSSEESGLGTYNNYDYDMDWLVPATCEPIQSVYFFSGDKYYRVNLRTRRVDSVNPPYPRSIAQYWLGCPTSEK |
| 6157 | sp|Q9NQH7|XPP3\_HUMAN | MPWLLSAPKLVPAVANVRGLSGCMLCSQRRYSLQPVPERRIPNRYLGQPSPFTHPHLLRPGEVTPGLSQVEYALRRHKLMSLIQKEAQGQSGTDQTVVVLSNPTYYMSNDIPYTFHQDNNFLYLCGFQEPDSILVLQSLPGKQLPSHKAILFVPRRDPSRELWDGPRSGTDGAIALTGVDEAYTLEEFQHLLPKMKAETNMVWYDWMRPSHAQLHSDYMQPLTEAKAKSKNKVRGVQQLIQRLRLIKSPAEIERMQIAGKLTSQAFIETMFTSKAPVEEAFLYAKFEFECRARGADILAYPPVVAGGNRSNTLHYVKNNQLIKDGEMVLLDGGCESSCYVSDITRTWPVNGRFTAPQAELYEAVLEIQRDCLALCFPGTSLENIYSMMLTLIGQKLKDLGIMKNIKENNAFKAARKYCPHHVGHYLGMDVHDTPDMPRSLPLQPGMVITIEPGIYIPEDDKDAPEKFRGLGVRIEDDVVVTQDSPLILSADCPKEMNDIEQICSQAS |
| 6158 | sp|Q9Z1L4|XLRS1\_MOUSE | MPHKIEGFFLLLLFGYEATLGLSSTEDEGEDPWYQKACKCDCQVGANALWSAGATSLDCIPECPYHKPLGFESGEVTPDQITCSNPEQYVGWYSSWTANKARLNSQGFGCAWLSKYQDSSQWLQIDLKEIKVISGILTQGRCDIDEWVTKYSVQYRTDERLNWIYYKDQTGNNRVFYGNSDRSSTVQNLLRPPIISRFIRLIPLGWHVRIAIRMELLECASKCA |
| 6159 | sp|Q9SI37|WRKY1\_ARATH | MAEVGKVLASDMELDHSNETKAVDDVVATTDKAEVIPVAVTRTETVVESLESTDCKELEKLVPHTVASQSEVDVASPVSEKAPKVSESSGALSLQSGSEGNSPFIREKVMEDGYNWRKYGQKLVKGNEFVRSYYRCTHPNCKAKKQLERSAGGQVVDTVYFGEHDHPKPLAGAVPINQDKRSDVFTAVSKGEQRIDIVSLIYKLCIVSYDIMFVEKTSGSSVQTLRQTEPPKIHGGLHVSVIPPADDVKTDISQSSRITGDNTHKDYNSPTAKRRKKGGNIELSPVERSTNDSRIVVHTQTLFDIVNDGYRWRKYGQKSVKGSPYPRSYYRCSSPGCPVKKHVERSSHDTKLLITTYEGKHDHDMPPGRVVTHNNMLDSEVDDKEGDANKTPQSSTLQSITKDQHVEDHLRKKTKTNGFEKSLDQGPVLDEKLKEEIKERSDANKDHAANHAKPEAKSDDKTTVCQEKAVGTLESEEQKPKTEPAQS |
| 6160 | sp|Q8GXQ3|WAKLF\_ARATH | MKKTKTYQVFCIAALSVLTLQLINGSSAATPPPPNSNSSTSCNRACGGVSIPFPFGIGKDCYLNGWYEVICNTSTSGSSGTTVPFLSRINSEVVNISLPDGKKLYGVVHIKGPVTSLGCSSSSSSSQVSEMSLPNLNVTGRGSPYFLTDENCLVMVGCGTKALMKDIESEILGCESSCEDSKSSEEVTNSKCDGYKCCQARIPLERPQVIGINIENTSATRGKEGCSVAFLTNKRYAPMNVTEPEQFHAGGYAVVELGWYFDTSDSRYRNPLGCRNMTRYSSYSSFDKCSCEYDYFSGMSYRICYCNYGYTGNPYLRHGCIDIDECEGHHNCGEGTCVNMPGTHSCEPKITKPEKASVLQGVLISLGVLLFVLGILGLYKFIKKRTRIIRNKNFFKRNGGLLLKQQLITKNGNVDMSRIFSSKELKKATDNFSMNRVLGQGGQGTVYKGMLAEGRIVAVKRSKVVGEGKMEEFINEVVLLSQINHRNIVKLLGCCLETEVPVLVYEYIPNGDLFKRLHEKSESNDYTMTWEVRLRIAIEIAGALSYMHSAASIPIYHRDIKTTNILLDEKYRAKVSDFGTSRSITIAQTHLTTLVAGTFGYMDPEYFLSSQYTDKSDVYSFGVVLVELITGEKPLSRKRIGN |
| 6161 | sp|O75063|XYLK\_HUMAN | MKLKQRVVLLAILLVIFIFTKVFLIDNLDTSAANREDQRAFHRMMTGLRVELAPKLDHTLQSPWEIAAQWVVPREVYPEETPELGAVMHAMATKKIIKADVGYKGTQLKALLILEGGQKVVFKPKRYSRDHVVEGEPYAGYDRHNAEVAAFHLDRILGFHRAPLVVGRFVNLRTEIKPVATEQLLSTFLTVGNNTCFYGKCYYCRETEPACADGDIMEGSVTLWLPDVWPLQKHRHPWGRTYREGKLARWEYDESYCDAVKKTSPYDSGPRLLDIIDTAVFDYLIGNADRHHYESFQDDEGASMLILLDNAKSFGNPSLDERSILAPLYQCCIIRVSTWNRLNYLKNGVLKSALKSAMAHDPISPVLSDPHLDAVDQRLLSVLATVKQCTDQFGMDTVLVEDRMPLSHL |
| 6162 | sp|Q02725|VTC3\_YEAST | MLFGIKLANDVYPPWKDSYIDYERLKKLLKESVIHDGRSSVDSWSERNESDFVEALDKELEKVYTFQISKYNAVLRKLDDLEENTKSAEKIQKINSEQFKNTLEECLDEAQRLDNFDRLNFTGFIKIVKKHDKLHPNYPSVKSLLQVRLKELPFNNSEEYSPLLYRISYLYEFLRSNYDHPNTVSKSLASTSKLSHFSNLEDASFKSYKFWVHDDNIMEVKARILRHLPALVYASVPNENDDFVDNLESDVRVQPEARLNIGSKSNSLSSDGNSNQDVEIGKSKSVIFPQSYDPTITTLYFDNDFFDLYNNRLLKISGAPTLRLRWIGKLLDKPDIFLEKRTFTENTETGNSSFEEIRLQMKAKFINNFIFKNDPSYKNYLINQLRERGTQKEELEKLSRDFDNIQNFIVEEKLQPVLRATYNRTAFQIPGDQSIRVTIDSNIMYIREDSLDKNRPIRNPENWHRDDIDSNIPNPLRFLRAGEYSKFPYSVMEIKVINQDNSQMPNYEWIKDLTNSHLVNEVPKFSLYLQGVASLFGEDDKYVNILPFWLPDLETDIRKNPQEAYEEEKKTLQKQKSIHDKLDNMRRLSKISVPDGKTTERQGQKDQNTRHVIADLEDHESSDEEGTALPKKSAVKKGKKFKTNAAFLKILAGKNISENGNDPYSDDTDSASSFQLPPGVKKPVHLLKNAGPVKVEAKVWLANERTFNRWLSVTTLLSVLTFSIYNSVQKAEFPQLADLLAYVYFFLTLFCGVWAYRTYLKRLTLIKGRSGKHLDAPVGPILVAVVLIVTLVVNFSVAFKEAARRERGLVNVSSQPSLPRTLKPIQDFIFNLVGE |
| 6163 | sp|A4PES0|WEE2\_PIG | MGDNGDNKELKQKLNFSYSEEEQEDEGQKEAQESKKVQYHTPERCGHQDSEAKFTPPRTPLNHVCELSTPQVKDRASPDQGLRTPVSRPHTRPETPAPPDKSKPPPHCESPFTPRGHSSQSVISTGKLPSRGSKHLRLTPGPLTDEMTSLALVNINPFTPESYRRQFLKSNGKRKTRRDLEEAGPEEGKVEKGLPAKRCVLRETNMACRYEKEFLEVEKIGVGEFGTVYKCIKRLDGCVYAIKRSTKPVSGLSDENLAMHEVYAHSVLGHHPHVVRYYSSWAEDDHMMIQNEYCNGGSLQAAISENAKSGNHFQEPKLKDILLQISLGLKYIHNYGMVHMDIKPSNIFICHKIPSDSPVVPEEAENEADWFLSANVTYKIGDLGHVTSISEPQVEEGDSRFLAKEILQENYQHLPKADIFALGLTIAVAAGAEALPTNGTSWHHIREGQLPNIPQDLSKEFYNLLKDMIDPDPVARPSAAALTRSRVLCPSLGRTEELQQQLNLEKFKTATLERELKEVQRAQSSKEGQSSPGVTGTHTGSRSTRRLVGGKSAKSSSFTWGQSSP |
| 6164 | sp|C0LGI5|Y1699\_ARATH | MKTISIFFVIILMSSSHAEDDVLCLKGFKSSLKDPSNQLNTWSFPNSSSSICKLTGVSCWNAKENRILSLQLQSMQLSGQIPESLKLCRSLQSLDLSFNDFSGLIPSQICSWLPYLVTLDLSGNKLSGSIPSQIVDCKFLNSLALNQNKLTGSIPSELTRLNRLQRLSLADNDLSGSIPSELSHYGEDGFRGNGGLCGKPLSNCGSFNGKNLTIIVTAGVIGAVGSLCVGFGMFWWFFIRDRRKMNNYGYGAGKCKDDSDWIGLLRSHKLVQVTLFQKPIVKIKLVDLIEATNGFDSGNIVVSSRSGVSYKADLPDGSTLEVKRLSSCCELSEKQFRSEINKLGQIRHPNLVPLLGFCVVEDEILLVYKHMANGTLYSQLQQWDIDWPTRVRVAVGAARGLAWLHHGCQPLYMHQYISSNVILLDEDFDARVIDYGLGKLVSSQDSKDSSFSNGKFGYVAPEYSSTMVASLSGDVYGFGIVLLEIVTGQKPVLINNGEEGFKESLVEWVSKHLSNGRSKDAIDRRIFGKGYDDEIMQVLRIACSCVVSRPKERPLMIQVYESLKNLGDQHGFFSEYSDEFPLIFNKQEHLK |
| 6165 | sp|P9WHR9|Y3671\_MYCTU | MTPSQWLDIAVLAVAFIAAISGWRAGALGSMLSFGGVLLGATAGVLLAPHIVSQISAPRAKLFAALFLILALVVVGEVAGVVLGRAVRGAIRNRPIRLIDSVIGVGVQLVVVLTAAWLLAMPLTQSKEQPELAAAVKGSRVLARVNEAAPTWLKTVPKRLSALLNTSGLPAVLEPFSRTPVIPVASPDPALVNNPVVAATEPSVVKIRSLAPRCQKVLEGTGFVISPDRVMTNAHVVAGSNNVTVYAGDKPFEATVVSYDPSVDVAILAVPHLPPPPLVFAAEPAKTGADVVVLGYPGGGNFTATPARIREAIRLSGPDIYGDPEPVTRDVYTIRADVEQGDSGGPLIDLNGQVLGVVFGAAIDDAETGFVLTAGEVAGQLAKIGATQPVGTGACVS |
| 6166 | sp|Q9Y548|YIPF1\_HUMAN | MAAVDDLQFEEFGNAATSLTANPDATTVNIEDPGETPKHQPGSPRGSGREEDDELLGNDDSDKTELLAGQKKSSPFWTFEYYQTFFDVDTYQVFDRIKGSLLPIPGKNFVRLYIRSNPDLYGPFWICATLVFAIAISGNLSNFLIHLGEKTYHYVPEFRKVSIAATIIYAYAWLVPLALWGFLMWRNSKVMNIVSYSFLEIVCVYGYSLFIYIPTAILWIIPQKAVRWILVMIALGISGSLLAMTFWPAVREDNRRVALATIVTIVLLHMLLSVGCLAYFFDAPEMDHLPTTTATPNQTVAAAKSS |
| 6167 | sp|P53845|YIF1\_YEAST | MSYNPYAYATSEQNGVNDRFSHTPQQQRPMQIPRNTPVNGQGNANMNANVNGSGGGFPFQDPRGSMAFQLGQSAFSNFIGQDNFNQFQETVNKATANAAGSQQISTYFQVSTRYVINKLKLILVPFLNGTKNWQRIMDSGNFLPPRDDVNSPDMYMPIMGLVTYILIWNTQQGLKGSFNPEDLYYKLSSTLAFVCLDLLILKLGLYLLIDSKIPSFSLVELLCYVGYKFVPLILAQLLTNVTMPFNLNILIKFYLFIAFGVFLLRSVKFNLLSRSGAEDDDIHVSISKSTVKKCNYFLFVYGFIWQNVLMWLMG |
| 6168 | sp|Q9NU63|ZFP57\_HUMAN | MAAGEPRSLLFFQKPVTFEDVAVNFTQEEWDCLDASQRVLYQDVMSETFKNLTSVARIFLHKPELITKLEQEEEQWRETRVLQASQAGPPFFCYTCGKCFSRRSYLYSHQFVHNPKLTNSCSQCGKLFRSPKSLSYHRRMHLGERPFCCTLCDKTYCDASGLSRHRRVHLGYRPHSCSVCGKSFRDQSELKRHQKIHQNQEPVDGNQECTLRIPGTQAEFQTPIARSQRSIQGLLDVNHAPVARSQEPIFRTEGPMAQNQASVLKNQAPVTRTQAPITGTLCQDARSNSHPVKPSRLNVFCCPHCSLTFSKKSYLSRHQKAHLTEPPNYCFHCSKSFSSFSRLVRHQQTHWKQKSYLCPICDLSFGEKEGLMDHWRGYKGKDLCQSSHHKCRVILGQWLGFSHDVPTMAGEEWKHGGDQSPPRIHTPRRRGLREKACKGDKTKEAVSILKHK |
| 6169 | sp|Q8VDZ4|ZDHC5\_MOUSE | MPAESGKRFKPSKYVPVSAAAIFLVGATTLFFAFTCPGLSLNVSPAVPIYNAIMFLFVLANFSMATFMDPGIFPRAEEDEDKEDDFRAPLYKTVEIKGIQVRMKWCATCRFYRPPRCSHCSVCDNCVEEFDHHCPWVNNCIGRRNYRYFFLFLLSLTAHIMGVFGFGLLYVLYHIEELSGVRTAVTMAVMCVAGLFFIPVAGLTGFHVVLVARGRTTNEQVTGKFRGGVNPFTNGCCNNVSRVLCSSPAPRYLGRPKKEKTIVIRPPFLRPEVSDGQITVKIMDNGIQGELRRTKSKGSLEITESQSADAEPPPPPKPDLSRYTGLRTHLSLATNEDSSLLGKDSPPTPTMYKYRPGYSSSSTSAAMPHSSSAKLSRGDSLKEPTSIADSSRHPSYRSEPSLEPESFRSPTFGKSFHFDPLSSGSRSSSLKSAQGTGFELGQLQSIRSEGTTSTSYKSLANQTRNGSLSYDSLLTPSDSPDFESVQAGPEPDPPLGYTSPFLSARLAQQREAERHPRLLPTGPPHREPSPVRYDNLSRHIVASLQEREKLLRQSPPLAGREEEPGLGDSGIQSTPGSGHAPRTSSSSDDSKRSPLSKTPLGRPAVPRFGKPDGLRSRGLGSPEPGTTAPYLGRSISYSSQKAPSGVSETEEVALQPLLTPKDEVQLKTTYSKSNGQPKSIGSASPGPGQPPLSSPTRGGVKKVSGVGGTTYEISV |
| 6170 | sp|Q14966|ZN638\_HUMAN | MSRPRFNPRGDFPLQRPRAPNPSGMRPPGPFMRPGSMGLPRFYPAGRARGIPHRFAGHESYQNMGPQRMNVQVTQHRTDPRLTKEKLDFHEAQQKKGKPHGSRWDDEPHISASVAVKQSSVTQVTEQSPKVQSRYTKESASSILASFGLSNEDLEELSRYPDEQLTPENMPLILRDIRMRKMGRRLPNLPSQSRNKETLGSEAVSSNVIDYGHASKYGYTEDPLEVRIYDPEIPTDEVENEFQSQQNISASVPNPNVICNSMFPVEDVFRQMDFPGESSNNRSFFSVESGTKMSGLHISGGQSVLEPIKSVNQSINQTVSQTMSQSLIPPSMNQQPFSSELISSVSQQERIPHEPVINSSNVHVGSRGSKKNYQSQADIPIRSPFGIVKASWLPKFSHADAQKMKRLPTPSMMNDYYAASPRIFPHLCSLCNVECSHLKDWIQHQNTSTHIESCRQLRQQYPDWNPEILPSRRNEGNRKENETPRRRSHSPSPRRSRRSSSSHRFRRSRSPMHYMYRPRSRSPRICHRFISRYRSRSRSRSPYRIRNPFRGSPKCFRSVSPERMSRRSVRSSDRKKALEDVVQRSGHGTEFNKQKHLEAADKGHSPAQKPKTSSGTKPSVKPTSATKSDSNLGGHSIRCKSKNLEDDTLSECKQVSDKAVSLQRKLRKEQSLHYGSVLLITELPEDGCTEEDVRKLFQPFGKVNDVLIVPYRKEAYLEMEFKEAITAIMKYIETTPLTIKGKSVKICVPGKKKAQNKEVKKKTLESKKVSASTLKRDADASKAVEIVTSTSAAKTGQAKASVAKVNKSTGKSASSVKSVVTVAVKGNKASIKTAKSGGKKSLEAKKTGNVKNKDSNKPVTIPENSEIKTSIEVKATENCAKEAISDAALEATENEPLNKETEEMCVMLVSNLPNKGYSVEEVYDLAKPFGGLKDILILSSHKKAYIEINRKAAESMVKFYTCFPVLMDGNQLSISMAPENMNIKDEEAIFITLVKENDPEANIDTIYDRFVHLDNLPEDGLQCVLCVGLQFGKVDHHVFISNRNKAILQLDSPESAQSMYSFLKQNPQNIGDHMLTCSLSPKIDLPEVQIEHDPELEKESPGLKNSPIDESEVQTATDSPSVKPNELEEESTPSIQTETLVQQEEPCEEEAEKATCDSDFAVETLELETQGEEVKEEIPLVASASVSIEQFTENAEECALNQQMFNSDLEKKGAEIINPKTALLPSDSVFAEERNLKGILEESPSEAEDFISGITQTMVEAVAEVEKNETVSEILPSTCIVTLVPGIPTGDEKTVDKKNISEKKGNMDEKEEKEFNTKETRMDLQIGTEKAEKNEGRMDAEKVEKMAAMKEKPAENTLFKAYPNKGVGQANKPDETSKTSILAVSDVSSSKPSIKAVIVSSPKAKATVSKTENQKSFPKSVPRDQINAEKKLSAKEFGLLKPTSARSGLAESSSKFKPTQSSLTRGGSGRISALQGKLSKLDYRDITKQSQETEARPSIMKRDDSNNKTLAEQNTKNPKSTTGRSSKSKEEPLFPFNLDEFVTVDEVIEEVNPSQAKQNPLKGKRKETLKNVPFSELNLKKKKGKTSTPRGVEGELSFVTLDEIGEEEDAAAHLAQALVTVDEVIDEEELNMEEMVKNSNSLFTLDELIDQDDCISHSEPKDVTVLSVAEEQDLLKQERLVTVDEIGEVEELPLNESADITFATLNTKGNEGDTVRDSIGFISSQVPEDPSTLVTVDEIQDDSSDLHLVTLDEVTEEDEDSLADFNNLKEELNFVTVDEVGEEEDGDNDLKVELAQSKNDHPTDKKGNRKKRAVDTKKTKLESLSQVGPVNENVMEEDLKTMIERHLTAKTPTKRVRIGKTLPSEKAVVTEPAKGEEAFQMSEVDEESGLKDSEPERKRKKTEDSSSGKSVASDVPEELDFLVPKAGFFCPICSLFYSGEKAMTNHCKSTRHKQNTEKFMAKQRKEKEQNEAEERSSR |
| 6171 | sp|Q8MKW7|RNZ\_DROME | MYLVKSAGSPIYRTLRTLTTSNLMAATIASAKDPLTGPRYEREPNVLRKKLASVVPGTVNLQVLGSGANGAPAAVYLFTDQARYLFNCGEGTQRLAHEHKTRLSRLEQIFLTQNTWASCGGLPGLTLTIQDAGVRDIGLHGPPHLGSMLQSMRRFVVLKNLQVRPNDCSEGACFEDSILKVDSLPLINSEDPTKSVINYICQLKPRAGALNLVKCVEQGVPPGPLLGQLKNGNDITLPDGKVVRSVDVTEASETALSFVFLDVPSENYLPALLTHGKRLKKLGEEKLTEVALVVHFTPYHISSRQVYKDFVVESFSSEAQHIYLSSPLNQFSGYAAAHRIQHQLHQLAPQVFPLLGEQLSCQSQTLSLNLKKTKLDEADSEDKANAKANETEEQGVVAMTNYHLRPRKGLDRTLESKLTPEEYVKETHAVPGFLELLAKFKEEYSFPDNSADSYPKIIFLGTGSCIPNKTRNVSSILIRTAIDAYVLLDCGEGTYGQIVRLYGHEKGQLILRQLQAIYVSHLHADHHIGLIGLLRERRQLKPRADPLILLAPRQIEPWLEFYNRQIETVEDAYTLVGNGELLASPLSGEQVERLGITSISTCLVRHCPNSFGISLTLAAKHNSEPVKITYSGDTMPCQDLIDLGRDSTVLIHEATMEDDLEEEARLKTHSTVSQAIQQGRNMNARHTILTHFSQRYAKCPRLPSDEDMQRVAIAFDNMEVTIEDLQHYHKLYPALFAMYAEYTEELEQRAVKRELKQERKRKLAET |
| 6172 | sp|Q2FZ08|RNY\_STAA8 | MNLLSLLLILLGIILGVVGGYVVARNLLLQKQSQARQTAEDIVNQAHKEADNIKKEKLLEAKEENQILREQTEAELRERRSELQRQETRLLQKEENLERKSDLLDKKDEILEQKESKIEEKQQQVDAKESSVQTLIMKHEQELERISGLTQEEAINEQLQRVEEELSQDIAVLVKEKEKEAKEKVDKTAKELLATAVQRLAADHTSESTVSVVNLPNDEMKGRIIGREGRNIRTLETLTGIDLIIDDTPEAVILSGFDPIRREIARTALVNLVSDGRIHPGRIEDMVEKARKEVDDIIREAGEQATFEVNAHNMHPDLVKIVGRLNYRTSYGQNVLKHSIEVAHLASMLAAELGEDETLAKRAGLLHDVGKAIDHEVEGSHVEIGVELAKKYGENETVINAIHSHHGDVEPTSIISILVAAADALSAARPGARKETLENYIRRLERLETLSESYDGVEKAFAIQAGREIRVIVSPEEIDDLKSYRLARDIKNQIEDELQYPGHIKVTVVRETRAVEYAK |
| 6173 | sp|Q9ZVT7|RRP4\_ARATH | MVMRKLQLPLSQTQKVRFERAIERLQSLSSSANSDASVIVTDSIPVNHDDAFLKGHGTSEVDGELLATVCGVVERVDKLVYVRTLRARYKPEVGDIVVGRVIEVAQKRWRVELNFNQDGVLMLSSMNMPDGIQRRRTSVDELNMRNIFVEHDVVCAEVRNFQHDGSLQLQARSQKYGKLEKGQLLKVDPYLVKRSKHHFHYVESLGIDLIIGCNGFIWVGEHVEVRDPMAIDDQKDEEMISSSSTGKEQSHIPLETRQTICRIGNAIRVLSNLGFTVTLEVIMETVNLSNSKNIDIHDMLGSEFHVVVAENEAERRRTKRKK |
| 6174 | sp|P62857|RS28\_HUMAN | MDTSRVQPIKLARVTKVLGRTGSQGQCTQVRVEFMDDTSRSIIRNVKGPVREGDVLTLLESEREARRLR |
| 6175 | sp|Q99M75|RTN4R\_RAT | MKRASSGGSRLLAWVLWLQAWRVATPCPGACVCYNEPKVTTSCPQQGLQAVPTGIPASSQRIFLHGNRISYVPAASFQSCRNLTILWLHSNALAGIDAAAFTGLTLLEQLDLSDNAQLRVVDPTTFRGLGHLHTLHLDRCGLQELGPGLFRGLAALQYLYLQDNNLQALPDNTFRDLGNLTHLFLHGNRIPSVPEHAFRGLHSLDRLLLHQNHVARVHPHAFRDLGRLMTLYLFANNLSMLPAEVLVPLRSLQYLRLNDNPWVCDCRARPLWAWLQKFRGSSSEVPCNLPQRLAGRDLKRLAASDLEGCAVASGPFRPFQTNQLTDEELLGLPKCCQPDAADKASVLEPGRPASAGNALKGRVPPGDTPPGNGSGPRHINDSPFGTLPGSAEPPLTALRPGGSEPPGLPTTGPRRRPGCSRKNRTRSHCRLGQAGSGSSGTGDAEGSGALPALACSLAPLGLALVLWTVLGPC |
| 6176 | sp|P46654|RSSA2\_YEAST | MSLPATFDLTPEDAQLLLAANTHLGARNVQVHQEPYVFNARPDGVHVINVGKTWEKLVLAARIIAAIPNPEDVVAISSRTYGQRAVLKFAAHTGATPIAGRFTPGSFTNYITRSFKEPRLVIVTDPRLDAQAIKEASYVNIPVIALTDLDSPSEFVDVAIPCNNRGKHSIGLIWYLLAREVLRLRGALVDRTQPWSIMPDLYFYRNPEEVEQVAEEAAAAEEGEEEEVKEEVTEGQAEATEWAEENADNVEW |
| 6177 | sp|Q5QGT7|RTP2\_HUMAN | MCTSLTTCEWKKVFYEKMEVAKPADSWELIIDPNLKPSELAPGWKQYLEQHASGRFHCSWCWHTWQSAHVVILFHMFLDRAQRAGSVRMRVFKQLCYECGTARLDESSMLEENIEGLVDNLITSLREQCYEEDGGQYRIHVASRPDSGPHRAEFCEACQEGIVHWKPSEKLLEEEVTTYTSEASKPRAQAGSGYNFLSLRWCLFWASLCLLVVYLQFSFLSPAFF |
| 6178 | sp|P51398|RT29\_HUMAN | MMLKGITRLISRIHKLDPGRFLHMGTQARQSIAAHLDNQVPVESPRAISRTNENDPAKHGDQHEGQHYNISPQDLETVFPHGLPPRFVMQVKTFSEACLMVRKPALELLHYLKNTSFAYPAIRYLLYGEKGTGKTLSLCHVIHFCAKQDWLILHIPDAHLWVKNCRDLLQSSYNKQRFDQPLEASTWLKNFKTTNERFLNQIKVQEKYVWNKRESTEKGSPLGEVVEQGITRVRNATDAVGIVLKELKRQSSLGMFHLLVAVDGINALWGRTTLKREDKSPIAPEELALVHNLRKMMKNDWHGGAIVSALSQTGSLFKPRKAYLPQELLGKEGFDALDPFIPILVSNYNPKEFESCIQYYLENNWLQHEKAPTEEGKKELLFLSNANPSLLERHCAYL |
| 6179 | sp|Q9Y467|SALL2\_HUMAN | MSRRKQRKPQQLISDCEGPSASENGDASEEDHPQVCAKCCAQFTDPTEFLAHQNACSTDPPVMVIIGGQENPNNSSASSEPRPEGHNNPQVMDTEHSNPPDSGSSVPTDPTWGPERRGEESPGHFLVAATGTAAGGGGGLILASPKLGATPLPPESTPAPPPPPPPPPPPGVGSGHLNIPLILEELRVLQQRQIHQMQMTEQICRQVLLLGSLGQTVGAPASPSELPGTGTASSTKPLLPLFSPIKPVQTSKTLASSSSSSSSSSGAETPKQAFFHLYHPLGSQHPFSAGGVGRSHKPTPAPSPALPGSTDQLIASPHLAFPSTTGLLAAQCLGAARGLEATASPGLLKPKNGSGELSYGEVMGPLEKPGGRHKCRFCAKVFGSDSALQIHLRSHTGERPYKCNVCGNRFTTRGNLKVHFHRHREKYPHVQMNPHPVPEHLDYVITSSGLPYGMSVPPEKAEEEAATPGGGVERKPLVASTTALSATESLTLLSTSAGTATAPGLPAFNKFVLMKAVEPKNKADENTPPGSEGSAISGVAESSTATRMQLSKLVTSLPSWALLTNHFKSTGSFPFPYVLEPLGASPSETSKLQQLVEKIDRQGAVAVTSAASGAPTTSAPAPSSSASSGPNQCVICLRVLSCPRALRLHYGQHGGERPFKCKVCGRAFSTRGNLRAHFVGHKASPAARAQNSCPICQKKFTNAVTLQQHVRMHLGGQIPNGGTALPEGGGAAQENGSEQSTVSGAGSFPQQQSQQPSPEEELSEEEEEEDEEEEEDVTDEDSLAGRGSESGGEKAISVRGDSEEASGAEEEVGTVAAAATAGKEMDSNEKTTQQSSLPPPPPPDSLDQPQPMEQGSSGVLGGKEEGGKPERSSSPASALTPEGEATSVTLVEELSLQEAMRKEPGESSSRKACEVCGQAFPSQAALEEHQKTHPKEGPLFTCVFCRQGFLERATLKKHMLLAHHQVQPFAPHGPQNIAALSLVPGCSPSITSTGLSPFPRKDDPTIP |
| 6180 | sp|Q9QZS8|SH2D3\_MOUSE | MTEMPKKTGRKFKFFKFKGLGSLSNLPRSFSLRRSSASASIRSCPEPDTFEATQDDMVTLPKSPPAYARSSDMYSHMGTMPRPNIKKAQKQQAVQKAQEVSRESHLVSRRLPEPPDLEAAKEAGEGTEALLEDTAPSAVEVDPMRELEDLTVDTEKEQVPGDVSPERTAAELEAAGDYVKFSKEKYILDSSPEKLHKELEEELKLSSTDLRSHAWYHGRIPREVSETLVQRNGDFLIRDSLTSLGDYVLTCRWHNQALHFKINKVVVKAGESYTHIRYLFEQESFDHVPALVRYHVGSRKAVSEQSGAIIYCPVNRTFPLRYLEASYGLSQGSSKTASPASPSGSKGSHMKRRSITMTDGLTTDKVTRSDGCPNSTSLPHPRDSIRNCALSMDQIPDLHSPLSPISESPSSPAYSTVTRVHAPSATPSTSAQPASPVARRSSEPQLCPGNTPKPPGESDRAPHASPSHTLCKASPSPSLSSYSDPDSGHYCQLQPPVRGSREQAAGETPRKARGSGERQKELLENGVSDGEWGKTFTVPVVEATSSFNLATFQSQLIPKENRPLEVALLRKVKELLSEVDARTLARHVTKVDCLVARILGVTKEMQTLMGVRWGMELLTLPHGRQLRLDLLERFHTMSIMLAVDILGCTGSAEERAALLHKTIQLAAELRGTMGNMFSFAAVMGALEMAQISRLEQTWMTLRQRHTEGAILYEKKLKPFLKSLNEGKEGPPLSNTTFPHVLPFITLLECDSAPAEGPEPWGSTEHGVEVVLAHLEAARTVAHHGGLYHTNAEVKLQGFQARPELLEVFSTEFQMRLLWGSQGANSSQAWRYEKFDKVLTALSHKLEPAIRSSEL |
| 6181 | sp|B8N7E5|RSP5\_ASPFN | MTCSQPNLRVTIIAADGLYKRDVFRFPDPFAVATVGGEQTHTTSVIKKTLNPYWNEMFDLRVNEDSILAIQIFDQKKFKKKDQGFLGVINVRIGDVIDLQMGGDEMLTRDLKKSNDNLVVHGKLIINLSTNLSTPNTNQANGLHRSHMQPSTSSGLVPQVSASTPQPSPGPSQADPTASNPSLHPQRVPSTTRPSSTIVPANGPPAPPNGQQGSRTNLSSFEDSQGRLPAGWERREDNLGRTYYVDHNTRTTTWTRPSNNYNEQTSRTQREASMQLERRAHQSRMLPEDRTGASSPNLQENQQQAQTPPAGGSASAVSMMATGATTAGTGELPPGWEQRTTPEGRPYFVDHNTRTTTWVDPRRQQYIRMYGQNANGTNTTIQQQPVSQLGPLPSGWEMRLTNTARVYFVDHNTKTTTWDDPRLPSSLDQGVPQYKRDFRRKLIYFRSQPALRIMSGQCHVKVRRNNIFEDSYAEIMRQSASDLKKRLMIKFDGEDGLDYGGLSREFFFLLSHEMFNPFYCLFEYSAHDNYTLQINPHSGVNPEHLNYFKFIGRVVGLAIFHRRFLDSFFIGAFYKMMLRKKVSLQDMEGVDEDLHRNLTWTLDNDIEGIIELTFAVDDEKFGERRTIDLKPGGRDIPVTNENKGEYVELVTEWKIVKRVEEQFNAFMSGFNELIPADLVNVFDERELELLIGGIADIDVDDWKKHTDYRGYQESDEVIQNFWKIVRTWDAEQKSRLLQFTTGTSRIPVNGFKDLQGSDGPRRFTIEKSGDPGALPKSHTCFNRLDLPPYKTNDVLEHKLSIAVEETLGFGQE |
| 6182 | sp|Q86VW0|SESD1\_HUMAN | MEASVILPILKKKLAFLSGGKDRRSGLILTIPLCLEQTNMDELSVTLDYLLSIPSEKCKARGFTVIVDGRKSQWNVVKTVVVMLQNVVPAEVSLVCVVKPDEFWDKKVTHFCFWKEKDRLGFEVILVSANKLTRYIEPCQLTEDFGGSLTYDHMDWLNKRLVFEKFTKESTSLLDELALINNGSDKGNQQEKERSVDLNFLPSVDPETVLQTGHELLSELQQRRFNGSDGGVSWSPMDDELLAQPQVMKLLDSLREQYTRYQEVCRQRSKRTQLEEIQQKVMQVVNWLEGPGSEQLRAQWGIGDSIRASQALQQKHEEIESQHSEWFAVYVELNQQIAALLNAGDEEDLVELKSLQQQLSDVCYRQASQLEFRQNLLQAALEFHGVAQDLSQQLDGLLGMLCVDVAPADGASIQQTLKLLEEKLKSVDVGLQGLREKGQGLLDQISNQASWAYGKDVTIENKENVDHIQGVMEDMQLRKQRCEDMVDVRRLKMLQMVQLFKCEEDAAQAVEWLSELLDALLKTHIRLGDDAQETKVLLEKHRKFVDVAQSTYDYGRQLLQATVVLCQSLRCTSRSSGDTLPRLNRVWKQFTIASEERVHRLEMAIAFHSNAEKILQDCPEEPEAINDEEQFDEIEAVGKSLLDRLTVPVVYPDGTEQYFGSPSDMASTAENIRDRMKLVNLKRQQLRHPEMVTTES |
| 6183 | sp|Q9CYP7|SESN3\_MOUSE | MNRGGSSASASANYLLCTNCRKVLRKDKRIRVSQPLTRGPSAFIPEKEVVQANTADERTNFLVEEYSTSGRLDNITQVMSLHTQYLESFLRSQFYMLRMDGPLPLPDRHYIAIMAAARHQCSYLINMHVDEFLKTGGIAEWLNGLEYVPQRLRNLNEINKLLAHRPWLITKEHIQKLVKTGENNWSLPELVHAVVLLAHYHALASFVFGSGINPERDPGIANGFRLISVSSFCVCDLANDNSIENTSLAGSNFGIVDSLGELEALMERMKRLQEDREDDETTREEMTTRFEKEKKESLFVVPGETLHAFPHSDFEDDVIVTADVSRYIEDPSFGYEDFARRGEEHLPTFRAQDYTWENHGFSLVNRLYSDIGHLLDEKFRMVYNLTYNTMATHEDVDTTTLRRALFNYVHCMFGIRYDDYDYGEVNQLLERSLKVYIKTVTCYPERTTKRMYDSYWRQFTHSEKVHVNLLLMEARMQAELLYALRAITRHLT |
| 6184 | sp|Q7AKG8|RSRA\_STRCO | MSCGEPHETDCSEILDHLYEFLDKEMPDSDCVKFEHHFEECSPCLEKYGLEQAVKKLVKRCCGQDDVPGDLRAKVMGRLDLIRSGQSVPEHDVAAAPSSSAPQES |
| 6185 | sp|Q99PI8|RTN4R\_MOUSE | MKRASSGGSRLLAWVLWLQAWRVATPCPGACVCYNEPKVTTSCPQQGLQAVPTGIPASSQRIFLHGNRISHVPAASFQSCRNLTILWLHSNALARIDAAAFTGLTLLEQLDLSDNAQLHVVDPTTFHGLGHLHTLHLDRCGLRELGPGLFRGLAALQYLYLQDNNLQALPDNTFRDLGNLTHLFLHGNRIPSVPEHAFRGLHSLDRLLLHQNHVARVHPHAFRDLGRLMTLYLFANNLSMLPAEVLMPLRSLQYLRLNDNPWVCDCRARPLWAWLQKFRGSSSEVPCNLPQRLADRDLKRLAASDLEGCAVASGPFRPIQTSQLTDEELLSLPKCCQPDAADKASVLEPGRPASAGNALKGRVPPGDTPPGNGSGPRHINDSPFGTLPSSAEPPLTALRPGGSEPPGLPTTGPRRRPGCSRKNRTRSHCRLGQAGSGASGTGDAEGSGALPALACSLAPLGLALVLWTVLGPC |
| 6186 | sp|Q6UXX9|RSPO2\_HUMAN | MQFRLFSFALIILNCMDYSHCQGNRWRRSKRASYVSNPICKGCLSCSKDNGCSRCQQKLFFFLRREGMRQYGECLHSCPSGYYGHRAPDMNRCARCRIENCDSCFSKDFCTKCKVGFYLHRGRCFDECPDGFAPLEETMECVEGCEVGHWSEWGTCSRNNRTCGFKWGLETRTRQIVKKPVKDTILCPTIAESRRCKMTMRHCPGGKRTPKAKEKRNKKKKRKLIERAQEQHSVFLATDRANQ |
| 6187 | sp|Q8CIF6|SIDT2\_MOUSE | MIAWRLPLCVLLVASVESHLGALGPKNVSQKDAEFERTYADDVNSELVNIYTFNHTVTRNRTEGVRVSVNVLNKQKGAPLLFVVRQKEAVVSFQVPLILRGLYQRKYLYQKVERTLCQPPTKNESEIQFFYVDVSTLSPVNTTYQLRVNRVDNFVLRTGELFTFNTTAAQPQYFKYEFPDGVDSVIVKVTSKKAFPCSVISIQDVLCPVYDLDNNVAFIGMYQTMTKKAAITVQRKDFPSNSFYVVVVVKTEDQACGGSLPFYPFVEDEPVDQGHRQKTLSVLVSQAVTSEAYVGGMLFCLGIFLSFYLLTVLLACWENWRQRKKTLLLAIDRACPESGHARVLADSFPGSAPYEGYNYGSFENGSGSTDGLVESAGSGDLSYSYQDRSFDAVGPRPRLDSMSSVEEDDYDTLTDIDSDKNVIRTKQYLCVADLARKDKRVLRKKYQIYFWNIATIAVFYALPVVQLVITYQTVVNVTGNQDICYYNFLCAHPLGNLSAFNNILSNLGYILLGLLFLLIILQREINHNRALLRNDLYALECGIPKHFGLFYAMGTALMMEGLLSACYHVCPNYTNFQFDTSFMYMIAGLCMLKLYQKRHPDINASAYSAYACLAIVIFFSVLGVVFGKGNTAFWIVFSVIHIISTLLLSTQLYYMGRWKLDSGIFRRILHVLYTDCIRQCSGPLYTDRMVLLVMGNIINWSLAAYGLIMRPNDFASYLLAIGICNLLLYFAFYIIMKLRSGERIKLIPLLCIVCTSVVWGFALFFFFQGLSTWQKTPAESREHNRDCILLDFFDDHDIWHFLSSIAMFGSFLVLLTLDDDLDTVQRDKIYVF |
| 6188 | sp|Q9Y6P5|SESN1\_HUMAN | MRLAAAANEAYTAPLAVSGLLGCKQCGGGRDQDEELGIRIPRPLGQGPSRFIPEKEILQVGSEDAQMHALFADSFAALGRLDNITLVMVFHPQYLESFLKTQHYLLQMDGPLPLHYRHYIGIMAAARHQCSYLVNLHVNDFLHVGGDPKWLNGLENAPQKLQNLGELNKVLAHRPWLITKEHIEGLLKAEEHSWSLAELVHAVVLLTHYHSLASFTFGCGISPEIHCDGGHTFRPPSVSNYCICDITNGNHSVDEMPVNSAENVSVSDSFFEVEALMEKMRQLQECRDEEEASQEEMASRFEIEKRESMFVFSSDDEEVTPARAVSRHFEDTSYGYKDFSRHGMHVPTFRVQDYCWEDHGYSLVNRLYPDVGQLIDEKFHIAYNLTYNTMAMHKDVDTSMLRRAIWNYIHCMFGIRYDDYDYGEINQLLDRSFKVYIKTVVCTPEKVTKRMYDSFWRQFKHSEKVHVNLLLIEARMQAELLYALRAITRYMT |
| 6189 | sp|Q9VVR6|SGF11\_DROME | MSAANMPTTTGAQGSGNQVPTTSTTIVNHFRELIKEPKNLDEAANYLYQSLLDDAVVGIFNETHHLRKSGNLAALDGVPEDSTYRMCEMPNLDIFGISTAKKPMDCTCPNCDRLVAAARFAPHLEKCMGMGRISSRIASRRLATKEGATSAHLHSSGNTGGTDDEDDVDWSSDKRRKKSNQNSRNNGSKKNNGKTF |
| 6190 | sp|Q9P0V3|SH3B4\_HUMAN | MAAQRIRAANSNGLPRCKSEGTLIDLSEGFSETSFNDIKVPSPSALLVDNPTPFGNAKEVIAIKDYCPTNFTTLKFSKGDHLYVLDTSGGEWWYAHNTTEMGYIPSSYVQPLNYRNSTLSDSGMIDNLPDSPDEVAKELELLGGWTDDKKVPGRMYSNNPFWNGVQTNPFLNGNVPVMPSLDELNPKSTVDLLLFDAGTSSFTESSSATTNSTGNIFDELPVTNGLHAEPPVRRDNPFFRSKRSYSLSELSVLQAKSDAPTSSSFFTGLKSPAPEQFQSREDFRTAWLNHRKLARSCHDLDLLGQSPGWGQTQAVETNIVCKLDSSGGAVQLPDTSISIHVPEGHVAPGETQQISMKALLDPPLELNSDRSCSISPVLEVKLSNLEVKTSIILEMKVSAEIKNDLFSKSTVGLQCLRSDSKEGPYVSVPLNCSCGDTVQAQLHNLEPCMYVAVVAHGPSILYPSTVWDFINKKVTVGLYGPKHIHPSFKTVVTIFGHDCAPKTLLVSEVTRQAPNPAPVALQLWGKHQFVLSRPQDLKVCMFSNMTNYEVKASEQAKVVRGFQLKLGKVSRLIFPITSQNPNELSDFTLRVQVKDDQEAILTQFCVQTPQPPPKSAIKPSGQRRFLKKNEVGKIILSPFATTTKYPTFQDRPVSSLKFGKLLKTVVRQNKNHYLLEYKKGDGIALLSEERVRLRGQLWTKEWYIGYYQGRVGLVHTKNVLVVGRARPSLCSGPELSTSVLLEQILRPCKFLTYIYASVRTLLMENISSWRSFADALGYVNLPLTFFCRAELDSEPERVASVLEKLKEDCNNTENKERKSFQKELVMALLKMDCQGLVVRLIQDFVLLTTAVEVAQRWRELAEKLAKVSKQQMDAYESPHRDRNGVVDSEAMWKPAYDFLLTWSHQIGDSYRDVIQELHLGLDKMKNPITKRWKHLTGTLILVNSLDVLRAAAFSPADQDDFVI |
| 6191 | sp|Q9NX18|SDHF2\_HUMAN | MAVSTVFSTSSLMLALSRHSLLSPLLSVTSFRRFYRGDSPTDSQKDMIEIPLPPWQERTDESIETKRARLLYESRKRGMLENCILLSLFAKEHLQHMTEKQLNLYDRLINEPSNDWDIYYWATEAKPAPEIFENEVMALLRDFAKNKNKEQRLRAPDLEYLFEKPR |
| 6192 | sp|O64782|SD129\_ARATH | MGMVLFACLLLLIIFPTCGYAAINTSSPLSIRQTLSSPGGFYELGFFSPNNTQNQYVGIWFKKIVPRVVVWVANRDTPVTSSAANLTISSNGSLILLDGKQDVIWSTGKAFTSNKCHAELLDTGNFVVIDDVSGNKLWQSFEHLGNTMLPQSSLMYDTSNGKKRVLTTWKSNSDPSPGEFSLEITPQIPTQGLIRRGSVPYWRCGPWAKTRFSGISGIDASYVSPFSVVQDTAAGTGSFSYSTLRNYNLSYVTLTPEGKMKILWDDGNNWKLHLSLPENPCDLYGRCGPYGLCVRSDPPKCECLKGFVPKSDEEWGKGNWTSGCVRRTKLSCQAKSSMKTQGKDTDIFYRMTDVKTPDLHQFASFLNAEQCYQGCLGNCSCTAFAYISGIGCLVWNGELADTVQFLSSGEFLFIRLASSELAGSSRRKIIVGTTVSLSIFLILVFAAIMLWRYRAKQNDAWKNGFERQDVSGVNFFEMHTIRTATNNFSPSNKLGQGGFGPVYKGKLVDGKEIGVKRLASSSGQGTEEFMNEITLISKLQHRNLVRLLGYCIDGEEKLLIYEFMVNKSLDIFIFDPCLKFELDWPKRFNIIQGIARGLLYLHRDSRLRVIHRDLKVSNILLDDRMNPKISDFGLARMFQGTQYQDNTRRVVGTLGYMSPEYAWAGLFSEKSDIYSFGVLMLEIISGKRISRFIYGDESKGLLAYTWDSWCETGGSNLLDRDLTDTCQAFEVARCVQIGLLCVQHEAVDRPNTLQVLSMLTSATDLPVPKQPIFAVHTLNDMPMLQANSQDFLSVNEMTESMIQGR |
| 6193 | sp|P22214|SEC22\_YEAST | MIKSTLIYREDGLPLCTSVDNENDPSLFEQKQKVKIVVSRLTPQSATEATLESGSFEIHYLKKSMVYYFVICESGYPRNLAFSYLNDIAQEFEHSFANEYPKPTVRPYQFVNFDNFLQMTKKSYSDKKVQDNLDQLNQELVGVKQIMSKNIEDLLYRGDSLDKMSDMSSSLKETSKRYRKSAQKINFDLLISQYAPIVIVAFFFVFLFWWIFLK |
| 6194 | sp|P07014|SDHB\_ECOLI | MRLEFSIYRYNPDVDDAPRMQDYTLEADEGRDMMLLDALIQLKEKDPSLSFRRSCREGVCGSDGLNMNGKNGLACITPISALNQPGKKIVIRPLPGLPVIRDLVVDMGQFYAQYEKIKPYLLNNGQNPPAREHLQMPEQREKLDGLYECILCACCSTSCPSFWWNPDKFIGPAGLLAAYRFLIDSRDTETDSRLDGLSDAFSVFRCHSIMNCVSVCPKGLNPTRAIGHIKSMLLQRNA |
| 6195 | sp|Q9H190|SDCB2\_HUMAN | MSSLYPSLEDLKVDQAIQAQVRASPKMPALPVQATAISPPPVLYPNLAELENYMGLSLSSQEVQESLLQIPEGDSTAVSGPGPGQMVAPVTGYSLGVRRAEIKPGVREIHLCKDERGKTGLRLRKVDQGLFVQLVQANTPASLVGLRFGDQLLQIDGRDCAGWSSHKAHQVVKKASGDKIVVVVRDRPFQRTVTMHKDSMGHVGFVIKKGKIVSLVKGSSAARNGLLTNHYVCEVDGQNVIGLKDKKIMEILATAGNVVTLTIIPSVIYEHMVKKLPPVLLHHTMDHSIPDA |
| 6196 | sp|P84646|SCX1\_ODODO | GVRDAYIADDKNCVYTCASNGYCNTECTKNGAESGYCQWIGRYGNACWCIKLPDEVPIRIPGKCR |
| 6197 | sp|Q8IWY4|SCUB1\_HUMAN | MGAAAVRWHLCVLLALGTRGRLAGGSGLPGSVDVDECSEGTDDCHIDAICQNTPKSYKCLCKPGYKGEGKQCEDIDECENDYYNGGCVHECINIPGNYRCTCFDGFMLAHDGHNCLDVDECQDNNGGCQQICVNAMGSYECQCHSGFFLSDNQHTCIHRSNEGMNCMNKDHGCAHICRETPKGGVACDCRPGFDLAQNQKDCTLTCNYGNGGCQHSCEDTDTGPTCGCHQKYALHSDGRTCIETCAVNNGGCDRTCKDTATGVRCSCPVGFTLQPDGKTCKDINECLVNNGGCDHFCRNTVGSFECGCRKGYKLLTDERTCQDIDECSFERTCDHICINSPGSFQCLCHRGYILYGTTHCGDVDECSMSNGSCDQGCVNTKGSYECVCPPGRRLHWNGKDCVETGKCLSRAKTSPRAQLSCSKAGGVESCFLSCPAHTLFVPDSENSYVLSCGVPGPQGKALQKRNGTSSGLGPSCSDAPTTPIKQKARFKIRDAKCHLRPHSQARAKETARQPLLDHCHVTFVTLKCDSSKKRRRGRKSPSKEVSHITAEFEIETKMEEASDTCEADCLRKRAEQSLQAAIKTLRKSIGRQQFYVQVSGTEYEVAQRPAKALEGQGACGAGQVLQDSKCVACGPGTHFGGELGQCVSCMPGTYQDMEGQLSCTPCPSSDGLGLPGARNVSECGGQCSPGFFSADGFKPCQACPVGTYQPEPGRTGCFPCGGGLLTKHEGTTSFQDCEAKVHCSPGHHYNTTTHRCIRCPVGTYQPEFGQNHCITCPGNTSTDFDGSTNVTHCKNQHCGGELGDYTGYIESPNYPGDYPANAECVWHIAPPPKRRILIVVPEIFLPIEDECGDVLVMRKSASPTSITTYETCQTYERPIAFTSRSRKLWIQFKSNEGNSGKGFQVPYVTYDEDYQQLIEDIVRDGRLYASENHQEILKDKKLIKALFDVLAHPQNYFKYTAQESKEMFPRSFIKLLRSKVSRFLRPYK |
| 6198 | sp|P0DSP1|SORL\_RAT | MATRSSRRESRLPFLFTLVALLPPGALGGGWTQRLHGGGAPLPQDRGFFVVQGDPHELRLGTHGDAWGASPAARKPLRTRRSAALQPQPIQVYGQVSLNDSHNQMVVHWAGEKSNVIVALARDSLALTRPKSSDVYVSYDYGKSFNKISEKLNFGVGNSSEAVISQFYHSPADNKRYIFVDAYARYLWITFDFGSTIHGFSIPFRAADLLLHSKASNLLLGFDSSHPNKQLWKSDDFGQTWIMIQEHVKSFSWGIDPYDQPNTIYIERHEPFGFSTVFRSTDFFQSRENQEVILEEVRDFQLRDKYLFATKVVHLPGSQQQSSVQLWVSFGRKPMRAAQFVTKHPINEYYIADASEDQVFVCVSHSNNSTNLYISEAEGLKFSLSLENVLYYSPGGAGSDTLVRYFANEPFADFHRVEGLQGVYIATLINGSMSEENMRSVITFDKGGTWEFLQAPAFTGYGEKINCELSQGCSLHLAQRLSQLLNLQLRRMPILSKESAPGLIIATGSVGKNLASKTNVYISSSAGARWREALPGPHYYTWGDHGGIIMAIAQGMETNELKYSTNEGETWKTFVFSEKPVFVYGLLTEPGEKSTVFTIFGSNKESVHSWLILQVNATDALGVPCTENDYKLWSPSDERGNECLLGHKTVFKRRTPHATCFNGEDFDRPVVVSNCSCTREDYECDFGFKMSEDISLEVCVPDPEFSGKPYSPPVPCPVGSSYRRTRGYRKISGDTCSGGDVEARLEGELVPCPLAEENEFILYAMRKSIYRYDLASGATEQLPLSGLRAAVALDFDYEHNCLYWSDLALDTIQRLCLNGSTGQEVIINSGLETVEALAFEPLSQLLYWVDAGFKKIEVANPDGDFRLTIVNSSVLDRPRALVLVPQEGVMFWTDWGDLKPGIYRSNMDGSAAYRLVSEDVKWPNGISVDGHWIYWTDAYLDCIERITFSGQQRSVILDNLPHPYAIAVFKNEIYWDDWSQLSIFRASKYSRSQVETLASQLTGLMDMKIFYKGKNAGSNACIPQPCSLLCLPKANNSKSCRCPEGVASSVLPSGYLMCDCPQGYERKNNTCVKEENTCLRNQYHCSNGNCINSIWWCDFDNDCGDMSDERNCPTTICDADTQFRCQESGTCIPLSYKCDLEDDCGDNSDESHCEMHQCRSDEFNCSSGMCIRSSWVCDGDNDCRDWSDEANCTAIYHTCEASNFQCHNGHCIPQRWACDGDADCQDGSDEDPISCEKKCNGFHCPNGTCIPSSKHCDGLRDCPDGSDEQHCEPFCTRFMDFVCKNRQQCLFHSMVCDGIIQCRDGSDEDATFAGCSQDPEFHKECDEFGFQCQNGVCISLIWKCDGMDDCGDYSDEANCENPTEAPNCSRYFQFHCENGRCIPNRWKCDRENDCGDWSDEKDCGDSHIFPSPTPGPSTCLPNYFRCSSGACVMGTWVCDGYRDCADGSDEEACPSLANSTAASTPTQLGQCDRFEFECRQPKKCIPNWKRCDGHQDCQDGQDEANCPTHSTLTCMSREFKCEDGEACIVLSERCDGFLDCSDESDEKACSDELTVYKVQNLQWIADFSGDVTLTWTRPKKMPSASCVYNVYYRVVGESIWKTLETHSNKTSTVLKVLKPDTTYQVKVQVHCLSKVHNTNDFVTLRTPEGLPDAPRNLQLSLNSEEEGVILGHWAPPVHTHGLIREYIVEYSRSGSKMWASQRAASNSTEIKNLLLNALYTVRVAAVTSRGIGNWSDSKSITTTKGKVIQAPNIHIDSYDENSLSFTLTMDGDIKVNGYVVNLFWSFDAHKQEKKTLNFRGGSSLSHKVSNLTAHTSYEVSAWAKTDLGDSPLAFEHILTRGISPPAPSLKAKAINQTAVECIWTGPKNVVYGIFYATSFLDLYRNPKSLTTSLHNKTVIVSKDEQYLFLVRVLIPYQGPSSDYVVVKMIPDSRLPPRHLHAVQIGKTSAVIKWESPYDSPDQDLFYAIAVKDLIRKTDRSYKVRSRNSTVEYSLSKLEPGGKYHIIVQLGNMSKDSSIKITTVSLSAPDALKIITENDHVLLFWKSLALKEKQFNETRGYEIHMFDSAVNLTAYLGNTTDNFFKVSNLKMGHNYTFTVQARCLFGSQICGEPAVLLYDELSSGGDATVVQTARSTDVAAVVVPILFLILLSLGVGFAVLYTKHRRLQSSFTAFANSHYSSRLGSAIFSSGDDLGEDDEDAPMITGFSDDVPMVIA |
| 6199 | sp|P53541|SPO1\_YEAST | MQKLLFVFSVLLTVVLATAPFQVQCPSSPLIREAKHELCPEETLYLKKKKIKTKNKLIQFLKSLTEAKFSSKFYKRVLKDPPKIGIAISGGGYRSMLVGTGFISQMNDYGLFEYSDYIAGLSGGSWILMDLVVQNFEVKSLLQEWDLEEDLLLGIPEFDISEEEIVTNAKKEYNDNDLKMKKRQGGSLITSSSNFYEQIEEIMNSIEEIPEDYMITKRNLNPLARLKKIFFPNNTFTGTDAKIETFKKVLDFYKSLHLKIKPKKMEGFQISFTDYWGKAIVQRLKKNFDDDPNHSFSFSKLVNSSKKFKECSVPIPIFVANCKNGLLSNVIFEFTPFEFGSWENILRLFVKLPYLGSKIVSGKAEKCINNFDDLGFITATSSSIFNNVLIFIWNLASQSSREAMKALNMVMGIFGLGKEEIFSISKDSSRLETDYAVYQPNPFYLYPEKDNVLTNKNHLYLVDGGEDGENIPLRTLVIPERELDVIFVLDSSSDIDNYPNGSKLKRIFEKLDEENVHYQFPNNVKTFTHPIVIGCNATKRTGHDSFLPIIIYHANANHGNASNTSTFKITYNQSEVSSMLPTGRGVFSNDYDLYYKNCLGCILTKRTMDRLPRKKKFSPFCLQCFKDYCYS |
| 6200 | sp|O08992|SDCB1\_MOUSE | MSLYPSLEDLKVDKVIQAQTAYSANPASQAFVLVDASAALPPDGNLYPKLYPELSQYMGLSLNEAEICESMPMVSGAPAQGQLVARPSSVNYMVAPVTGNDAGIRRAEIKQGIREVILCKDQDGKIGLRLKSIDNGIFVQLVQANSPASLVGLRFGDQVLQINGENCAGWSSDKAHKVLKQAFGEKITMTIRDRPFERTVTMHKDSSGHVGFIFKSGKITSIVKDSSAARNGLLTDHHICEINGQNVIGLKDAQIADILSTAGTVVTITIMPTFIFEHIIKRMAPSIMKSLMDHTIPEV |
| 6201 | sp|P61011|SRP54\_HUMAN | MVLADLGRKITSALRSLSNATIINEEVLNAMLKEVCTALLEADVNIKLVKQLRENVKSAIDLEEMASGLNKRKMIQHAVFKELVKLVDPGVKAWTPTKGKQNVIMFVGLQGSGKTTTCSKLAYYYQRKGWKTCLICADTFRAGAFDQLKQNATKARIPFYGSYTEMDPVIIASEGVEKFKNENFEIIIVDTSGRHKQEDSLFEEMLQVANAIQPDNIVYVMDASIGQACEAQAKAFKDKVDVASVIVTKLDGHAKGGGALSAVAATKSPIIFIGTGEHIDDFEPFKTQPFISKLLGMGDIEGLIDKVNELKLDDNEALIEKLKHGQFTLRDMYEQFQNIMKMGPFSQILGMIPGFGTDFMSKGNEQESMARLKKLMTIMDSMNDQELDSTDGAKVFSKQPGRIQRVARGSGVSTRDVQELLTQYTKFAQMVKKMGGIKGLFKGGDMSKNVSQSQMAKLNQQMAKMMDPRVLHHMGGMAGLQSMMRQFQQGAAGNMKGMMGFNNM |
| 6202 | sp|Q14524|SCN5A\_HUMAN | MANFLLPRGTSSFRRFTRESLAAIEKRMAEKQARGSTTLQESREGLPEEEAPRPQLDLQASKKLPDLYGNPPQELIGEPLEDLDPFYSTQKTFIVLNKGKTIFRFSATNALYVLSPFHPIRRAAVKILVHSLFNMLIMCTILTNCVFMAQHDPPPWTKYVEYTFTAIYTFESLVKILARGFCLHAFTFLRDPWNWLDFSVIIMAYTTEFVDLGNVSALRTFRVLRALKTISVISGLKTIVGALIQSVKKLADVMVLTVFCLSVFALIGLQLFMGNLRHKCVRNFTALNGTNGSVEADGLVWESLDLYLSDPENYLLKNGTSDVLLCGNSSDAGTCPEGYRCLKAGENPDHGYTSFDSFAWAFLALFRLMTQDCWERLYQQTLRSAGKIYMIFFMLVIFLGSFYLVNLILAVVAMAYEEQNQATIAETEEKEKRFQEAMEMLKKEHEALTIRGVDTVSRSSLEMSPLAPVNSHERRSKRRKRMSSGTEECGEDRLPKSDSEDGPRAMNHLSLTRGLSRTSMKPRSSRGSIFTFRRRDLGSEADFADDENSTAGESESHHTSLLVPWPLRRTSAQGQPSPGTSAPGHALHGKKNSTVDCNGVVSLLGAGDPEATSPGSHLLRPVMLEHPPDTTTPSEEPGGPQMLTSQAPCVDGFEEPGARQRALSAVSVLTSALEELEESRHKCPPCWNRLAQRYLIWECCPLWMSIKQGVKLVVMDPFTDLTITMCIVLNTLFMALEHYNMTSEFEEMLQVGNLVFTGIFTAEMTFKIIALDPYYYFQQGWNIFDSIIVILSLMELGLSRMSNLSVLRSFRLLRVFKLAKSWPTLNTLIKIIGNSVGALGNLTLVLAIIVFIFAVVGMQLFGKNYSELRDSDSGLLPRWHMMDFFHAFLIIFRILCGEWIETMWDCMEVSGQSLCLLVFLLVMVIGNLVVLNLFLALLLSSFSADNLTAPDEDREMNNLQLALARIQRGLRFVKRTTWDFCCGLLRQRPQKPAALAAQGQLPSCIATPYSPPPPETEKVPPTRKETRFEEGEQPGQGTPGDPEPVCVPIAVAESDTDDQEEDEENSLGTEEESSKQQESQPVSGGPEAPPDSRTWSQVSATASSEAEASASQADWRQQWKAEPQAPGCGETPEDSCSEGSTADMTNTAELLEQIPDLGQDVKDPEDCFTEGCVRRCPCCAVDTTQAPGKVWWRLRKTCYHIVEHSWFETFIIFMILLSSGALAFEDIYLEERKTIKVLLEYADKMFTYVFVLEMLLKWVAYGFKKYFTNAWCWLDFLIVDVSLVSLVANTLGFAEMGPIKSLRTLRALRPLRALSRFEGMRVVVNALVGAIPSIMNVLLVCLIFWLIFSIMGVNLFAGKFGRCINQTEGDLPLNYTIVNNKSQCESLNLTGELYWTKVKVNFDNVGAGYLALLQVATFKGWMDIMYAAVDSRGYEEQPQWEYNLYMYIYFVIFIIFGSFFTLNLFIGVIIDNFNQQKKKLGGQDIFMTEEQKKYYNAMKKLGSKKPQKPIPRPLNKYQGFIFDIVTKQAFDVTIMFLICLNMVTMMVETDDQSPEKINILAKINLLFVAIFTGECIVKLAALRHYYFTNSWNIFDFVVVILSIVGTVLSDIIQKYFFSPTLFRVIRLARIGRILRLIRGAKGIRTLLFALMMSLPALFNIGLLLFLVMFIYSIFGMANFAYVKWEAGIDDMFNFQTFANSMLCLFQITTSAGWDGLLSPILNTGPPYCDPTLPNSNGSRGDCGSPAVGILFFTTYIIISFLIVVNMYIAIILENFSVATEESTEPLSEDDFDMFYEIWEKFDPEATQFIEYSVLSDFADALSEPLRIAKPNQISLINMDLPMVSGDRIHCMDILFAFTKRVLGESGEMDALKIQMEEKFMAANPSKISYEPITTTLRRKHEEVSAMVIQRAFRRHLLQRSLKHASFLFRQQAGSGLSEEDAPEREGLIAYVMSENFSRPLGPPSSSSISSTSFPPSYDSVTRATSDNLQVRGSDYSHSEDLADFPPSPDRDRESIV |
| 6203 | sp|Q9JJV9|SCN5A\_MOUSE | MANFLLPRGTSSFRRFTRESLAAIEKRMAEKQARGSATSQESREGLPEEEAPRPQLDLQASKKLPDLYGNPPRELIGEPLEDLDPFYSTQKTFIVLNKGKTIFRFSATNALYVLSPFHPVRRAAVKILVHSLFSMLIMCTILTNCVFMAQHDPPPWTKYVEYTFTAIYTFESLVKILARGFCLHAFTFLRDPWNWLDFSVIVMAYTTEFVDLGNVSALRTFRVLRALKTISVISGLKTIVGALIQSVKKLADVMVLTVFCLSVFALIGLQLFMGNLRHKCVRNFTELNGTNGSVEADGIVWNSLDVYLNDPANYLLKNGTTDVLLCGNSSDAGTCPEGYRCLKAGENPDHGYTSFDSFAWAFLALFRLMTQDCWERLYQQTLRSAGKIYMIFFMLVIFLGSFYLVNLILAVVAMAYEEQNQATIAETEEKEKRFQEAMEMLKKEHEALTIRGVDTVSRSSLEMSPLAPVTNHERRSKRRKRLSSGTEDGGDDRLPKSDSEDGPRALNQLSLTHGLSRTSMRPRSSRGSIFTFRRRDQGSEADFADDENSTAGESESHRTSLLVPWPLRRPSTQGQPGFGTSAPGHVLNGKRNSTVDCNGVVSLLGAGDAEATSPGSHLLRPIVLDRPPDTTTPSEEPGGPQMLTPQAPCADGFEEPGARQRALSAVSVLTSALEELEESHRKCPPCWNRFAQHYLIWECCPLWMSIKQKVKFVVMDPFADLTITMCIVLNTLFMALEHYNMTAEFEEMLQVGNLVFTGIFTAEMTFKIIALDPYYYFQQGWNIFDSIIVILSLMELGLSRMGNLSVLRSFRLLRVFKLAKSWPTLNTLIKIIGNSVGALGNLTLVLAIIVFIFAVVGMQLFGKNYSELRHRISDSGLLPRWHMMDFFHAFLIIFRILCGEWIETMWDCMEVSGQSLCLLVFLLVMVIGNLVVLNLFLALLLSSFSADNLTAPDEDGEMNNLQLALARIQRGLRFVKRTTWDFCCGLLRRRPKKPAALATHSQLPSCIAAPRSPPPPEVEKAPPARKETRFEEDKRPGQGTPGDTEPVCVPIAVAESDTDDQEEDEENSLGTEEEESSKQESQVVSGGHEPPQEPRAWSQVSETTSSEAEASTSQADWQQEREAEPRAPGCGETPEDSYSEGSTADMTNTADLLEQIPDLGEDVKDPEDCFTEGCVRRCPCCMVDTTQAPGKVWWRLRKTCYRIVEHSWFETFIIFMILLSSGALAFEDIYLEERKTIKVLLEYADKMFTYVFVLEMLLKWVAYGFKKYFTNAWCWLDFLIVDVSLVSLVANTLGFAEMGPIKSLRTLRALRPLRALSRFEGMRVVVNALVGAIPSIMNVLLVCLIFWLIFSIMGVNLFAGKFGRCINQTEGDLPLNYTIVNNKSECESFNVTGELYWTKVKVNFDNVGAGYLALLQVATFKGWMDIMYAAVDSRGYEEQPQWEDNLYMYIYFVVFIIFGSFFTLNLFIGVIIDNFNQQKKKLGGQDIFMTEEQKKYYNAMKKLGSKKPQKPIPRPLNKYQGFIFDIVTKQAFDVTIMFLICLNMVTMMVETDDQSPEKVNILAKINLLFVAIFTGECIVKMAALRHYYFTNSWNIFDFVVVILSIVGTVLSDIIQKYFFSPTLFRVIRLARIGRILRLIRGAKGIRTLLFALMMSLPALFNIGLLLFLVMFIYSIFGMANFAYVKWEAGIDDMFNFQTFANSMLCLFQITTSAGWDGLLSPILNTGPPYCDPNLPNSNGSRGNCGSPAVGILFFTTYIIISFLIVVNMYIAIILENFSVATEESTEPLSEDDFDMFYEIWEKFDPEATQFIEYLALSDFADALSEPLRIAKPNQISLINMDLPMVSGDRIHCMDILFAFTKRVLGESGEMDALKIQMEEKFMAANPSKISYEPITTTLRRKHEEVSATVIQRAFRRHLLQRSVKHASFLFRQQAGSSGLSDEDAPEREGLIAYMMNENFSRRSGPLSSSSISSTSFPPSYDSVTRATSDNLPVRASDYSRSEDLADFPPSPDRDRESIV |
| 6204 | sp|Q9NPD5|SO1B3\_HUMAN | MDQHQHLNKTAESASSEKKKTRRCNGFKMFLAALSFSYIAKALGGIIMKISITQIERRFDISSSLAGLIDGSFEIGNLLVIVFVSYFGSKLHRPKLIGIGCLLMGTGSILTSLPHFFMGYYRYSKETHINPSENSTSSLSTCLINQTLSFNGTSPEIVEKDCVKESGSHMWIYVFMGNMLRGIGETPIVPLGISYIDDFAKEGHSSLYLGSLNAIGMIGPVIGFALGSLFAKMYVDIGYVDLSTIRITPKDSRWVGAWWLGFLVSGLFSIISSIPFFFLPKNPNKPQKERKISLSLHVLKTNDDRNQTANLTNQGKNVTKNVTGFFQSLKSILTNPLYVIFLLLTLLQVSSFIGSFTYVFKYMEQQYGQSASHANFLLGIITIPTVATGMFLGGFIIKKFKLSLVGIAKFSFLTSMISFLFQLLYFPLICESKSVAGLTLTYDGNNSVASHVDVPLSYCNSECNCDESQWEPVCGNNGITYLSPCLAGCKSSSGIKKHTVFYNCSCVEVTGLQNRNYSAHLGECPRDNTCTRKFFIYVAIQVINSLFSATGGTTFILLTVKIVQPELKALAMGFQSMVIRTLGGILAPIYFGALIDKTCMKWSTNSCGAQGACRIYNSVFFGRVYLGLSIALRFPALVLYIVFIFAMKKKFQGKDTKASDNERKVMDEANLEFLNNGEHFVPSAGTDSKTCNLDMQDNAAAN |
| 6205 | sp|O54835|SMAD9\_RAT | MHPSTPISSLFSFTSPAVKRLLGWKQGDEEEKWAEKAVDSLVKKLKKKKGAMDELERALSCPGQPSKCVTIPRSLDGRLQVSHRKGLPHVIYCRVWRWPDLQSHHELKPLECCEFPFGSKQKEVCINPYHYRRVETPVLPPVLVPRHSEYNPQLSLLAKFRSASLHSEPLMPHNATYPDSFQQSLGPAPPSSPGHVFPQSPCPTSYPQSPGSPSESDSPYQHSDFRPVCYEEPLHWCSVAYYELNNRVGETFQASSRSVLIDGFTDPSNNRNRFCLGLLSNVNRNSTIENTRRHIGKGVHLYYVGGEVYAECVSDSSIFVQSRNCNYQHGFHPATVCKIPSGCSLKVFNNQLFAQLLAQLLAQSVHHGFEVVYELTKMCTIRMSFVKGWGAEYHRQDVTSTPCWIEIHLHGPLQWLDKVLTQMGSPHNPISSVS |
| 6206 | sp|Q8U4G1|SPEE\_PYRFU | MERAFIEWYPRGYGVAFKIKKKIYEKLSKYQKIEVYETEGFGRLLALDGTVQLVTLGERSYHEPLVHPAMLAHPKPKRVLVIGGGDGGTVREVLQHDVDEVIMVEIDEDVIMVSKDLIKIDNGLLEAMLNGKHEKAKLTIGDGFEFIKNNRGFDVIIADSTDPVGPAKVLFSEEFYRYVYDALNNPGIYVTQAGSVYLFTDELISAYKEMKKVFDRVYYYSFPVIGYASPWAFLVGVKGDIDFTKIDRERAKKLQLEYYDPLMHETLFQMPKYIRETLQRL |
| 6207 | sp|Q7KZF4|SND1\_HUMAN | MASSAQSGGSSGGPAVPTVQRGIIKMVLSGCAIIVRGQPRGGPPPERQINLSNIRAGNLARRAAATQPDAKDTPDEPWAFPAREFLRKKLIGKEVCFTIENKTPQGREYGMIYLGKDTNGENIAESLVAEGLATRREGMRANNPEQNRLSECEEQAKAAKKGMWSEGNGSHTIRDLKYTIENPRHFVDSHHQKPVNAIIEHVRDGSVVRALLLPDYYLVTVMLSGIKCPTFRREADGSETPEPFAAEAKFFTESRLLQRDVQIILESCHNQNILGTILHPNGNITELLLKEGFARCVDWSIAVYTRGAEKLRAAERFAKERRLRIWRDYVAPTANLDQKDKQFVAKVMQVLNADAIVVKLNSGDYKTIHLSSIRPPRLEGENTQDKNKKLRPLYDIPYMFEAREFLRKKLIGKKVNVTVDYIRPASPATETVPAFSERTCATVTIGGINIAEALVSKGLATVIRYRQDDDQRSSHYDELLAAEARAIKNGKGLHSKKEVPIHRVADISGDTQKAKQFLPFLQRAGRSEAVVEYVFSGSRLKLYLPKETCLITFLLAGIECPRGARNLPGLVQEGEPFSEEATLFTKELVLQREVEVEVESMDKAGNFIGWLHIDGANLSVLLVEHALSKVHFTAERSSYYKSLLSAEEAAKQKKEKVWAHYEEQPVEEVMPVLEEKERSASYKPVFVTEITDDLHFYVQDVETGTQLEKLMENMRNDIASHPPVEGSYAPRRGEFCIAKFVDGEWYRARVEKVESPAKIHVFYIDYGNREVLPSTRLGTLSPAFSTRVLPAQATEYAFAFIQVPQDDDARTDAVDSVVRDIQNTQCLLNVEHLSAGCPHVTLQFADSKGDVGLGLVKEGLVMVEVRKEKQFQKVITEYLNAQESAKSARLNLWRYGDFRADDADEFGYSR |
| 6208 | sp|Q9V9J3|SRC42\_DROME | MGNCLTTQKGEPDKPADRIKLDDPPTIGVGVGVPQIPMPSHAGQPPEQIRPVPQIPESETAGANAKIFVALYDYDARTDEDLSFRKGEHLEILNDTQGDWWLARSKKTRSEGYIPSNYVAKLKSIEAEPWYFRKIKRIEAEKKLLLPENEHGAFLIRDSESRHNDYSLSVRDGDTVKHYRIRQLDEGGFFIARRTTFRTLQELVEHYSKDSDGLCVNLCKPCVQIEKPVTEGLSHRTRDQWEIDRTSLKFVRKLGSGQFGDVWEGLWNNTTPVAIKTLKSGTMDPKDFLAEAQIMKKLRHTKLIQLYAVCTVEEPIYIITELMKHGSLLEYLQAIAGKGRSLKMQTLIDMAAQIAAGMAYLESQNYIHRDLAARNVLVGDGNIVKIADFGLARLIKEDEYEARVGARFPIKWTAPEAANYSKFSIKSDVWSFGILLTELVTYGRIPYPGMTNAEVLTQVEHGYRMPQPPNCEPRLYEIMLECWHKDPMRRPTFETLQWKLEDFYTSDQSDYKEAQAY |
| 6209 | sp|O23255|SAHH1\_ARATH | MALLVEKTSSGREYKVKDMSQADFGRLELELAEVEMPGLMACRTEFGPSQPFKGARITGSLHMTIQTAVLIETLTALGAEVRWCSCNIFSTQDHAAAAIARDSAAVFAWKGETLQEYWWCTERALDWGPGGGPDLIVDDGGDATLLIHEGVKAEEIFEKTGQVPDPTSTDNPEFQIVLSIIKEGLQVDPKKYHKMKERLVGVSEETTTGVKRLYQMQQNGTLLFPAINVNDSVTKSKFDNLYGCRHSLPDGLMRATDVMIAGKVAVICGYGDVGKGCAAAMKTAGARVIVTEIDPICALQALMEGLQVLTLEDVVSEADIFVTTTGNKDIIMVDHMRKMKNNAIVCNIGHFDNEIDMLGLETYPGVKRITIKPQTDRWVFPETKAGIIVLAEGRLMNLGCATGHPSFVMSCSFTNQVIAQLELWNEKASGKYEKKVYVLPKHLDEKVALLHLGKLGARLTKLSKDQSDYVSIPIEGPYKPPHYRY |
| 6210 | sp|P41225|SOX3\_HUMAN | MRPVRENSSGARSPRVPADLARSILISLPFPPDSLAHRPPSSAPTESQGLFTVAAPAPGAPSPPATLAHLLPAPAMYSLLETELKNPVGTPTQAAGTGGPAAPGGAGKSSANAAGGANSGGGSSGGASGGGGGTDQDRVKRPMNAFMVWSRGQRRKMALENPKMHNSEISKRLGADWKLLTDAEKRPFIDEAKRLRAVHMKEYPDYKYRPRRKTKTLLKKDKYSLPSGLLPPGAAAAAAAAAAAAAAASSPVGVGQRLDTYTHVNGWANGAYSLVQEQLGYAQPPSMSSPPPPPALPPMHRYDMAGLQYSPMMPPGAQSYMNVAAAAAAASGYGGMAPSATAAAAAAYGQQPATAAAAAAAAAAMSLGPMGSVVKSEPSSPPPAIASHSQRACLGDLRDMISMYLPPGGDAADAASPLPGGRLHGVHQHYQGAGTAVNGTVPLTHI |
| 6211 | sp|O14544|SOCS6\_HUMAN | MKKISLKTLRKSFNLNKSKEETDFMVVQQPSLASDFGKDDSLFGSCYGKDMASCDINGEDEKGGKNRSKSESLMGTLKRRLSAKQKSKGKAGTPSGSSADEDTFSSSSAPIVFKDVRAQRPIRSTSLRSHHYSPAPWPLRPTNSEETCIKMEVRVKALVHSSSPSPALNGVRKDFHDLQSETTCQEQANSLKSSASHNGDLHLHLDEHVPVVIGLMPQDYIQYTVPLDEGMYPLEGSRSYCLDSSSPMEVSAVPPQVGGRAFPEDESQVDQDLVVAPEIFVDQSVNGLLIGTTGVMLQSPRAGHDDVPPLSPLLPPMQNNQIQRNFSGLTGTEAHVAESMRCHLNFDPNSAPGVARVYDSVQSSGPMVVTSLTEELKKLAKQGWYWGPITRWEAEGKLANVPDGSFLVRDSSDDRYLLSLSFRSHGKTLHTRIEHSNGRFSFYEQPDVEGHTSIVDLIEHSIRDSENGAFCYSRSRLPGSATYPVRLTNPVSRFMQVRSLQYLCRFVIRQYTRIDLIQKLPLPNKMKDYLQEKHY |
| 6212 | sp|P14906|SEC63\_YEAST | MPTNYEYDEASETWPSFILTGLLMVVGPMTLLQIYQIFFGANAEDGNSGKSKEFNEEVFKNLNEEYTSDEIKQFRRKFDKNSNKKSKIWSRRNIIIIVGWILVAILLQRINSNDAIKDAATKLFDPYEILGISTSASDRDIKSAYRKLSVKFHPDKLAKGLTPDEKSVMEETYVQITKAYESLTDELVRQNYLKYGHPDGPQSTSHGIALPRFLVDGSASPLLVVCYVALLGLILPYFVSRWWARTQSYTKKGIHNVTASNFVSNLVNYKPSEIVTTDLILHWLSFAHEFKQFFPDLQPTDFEKLLQDHINRRDSGKLNNAKFRIVAKCHSLLHGLLDIACGFRNLDIALGAINTFKCIVQAVPLTPNCQILQLPNVDKEHFITKTGDIHTLGKLFTLEDAKIGEVLGIKDQAKLNETLRVASHIPNLKIIKADFLVPGENQVTPSSTPYISLKVLVRSAKQPLIPTSLIPEENLTEPQDFESQRDPFAMMSKQPLVPYSFAPFFPTKRRGSWCCLVSSQKDGKILQTPIIIEKLSYKNLNDDKDFFDKRIKMDLTKHEKFDINDWEIGTIKIPLGQPAPETVGDFFFRVIVKSTDYFTTDLDITMNMKVRDSPAVEQVEVYSEEDDEYSTDDDETESDDESDASDYTDIDTDTEAEDDESPE |
| 6213 | sp|Q06411|SP382\_YEAST | MEDSDSNTDKKFFFKKRRIDSYNYSDEEDNNSSMNSDMTYTNDALKTSSGNAPTISKLTKTYGIGAKLLSSMGYVAGKGLGKDGSGITTPIETQSRPMHNAGLGMFSNTNSSNYHSENEDYLSSEDEVVEGIEQVKFNKTSTEVLGEALLNDSGDMTIVRTLRELRLAGVQLPESILKELDPLNAVPKPKKDVVVEILQELLGIEKSLEAIRQRTSPLEVQVKEYYGQERLLSELEVTLRDESKHVSLYDKIGAILKLSDDELIDRLTSCLLRKELLIEFDLDHLEKPNDILDELTQIIELLAYRMDTTSKFLNRTQTTIFKVIYPKLKKFWEGFDMTKSKIDSAITLLLDFQQVLSFIGCKEHIMEEFVYPKLLQELDNWELHDEVDHVSPRIWVLDFMVLIDDKIKDTIVDKIEAKFFAYCKNWYHRESFCITNSDIIFIKELICERRYYKILCKEFLPKFLDELWERHNDPIYELEDWKEKQEWKEKDSGFFYFMKKLRSYTHYFHPKQYELMMRGTFNNINKILYQWHLYSTVEDLHKSKWWLNWLMNTVFEHSLPTEIELSEIRKSYNIFAMSHRYHLDKSTLDEDFDLRQGLRNLMETQVIDDISQSEQEPTYTVQNIPLGKVSSSFKDVVEDYCLEKGYLISKIPNRYTQLPYGRDQDCIVPLFEIRNGKKKMEVALKHDILWVEDSSGTFKPIYLWALDL |
| 6214 | sp|A1L4H1|SRCRL\_HUMAN | MRVLACLLAALVGIQAVERLRLADGPHGCAGRLEVWHGGRWGTVCDDGWDLRDAAVACRQLGCGGALAAPGGAFFGEGAGPVWLSELACRGNEGQLGLCHHRGWKAHICSHEEDAGVVCAGQRVANSRDDSTSPLDGAPWPGLLLELSPSTEEPLVTHAPRPAGNPQNASRKKSPRPKQAKSTRAPLLTTGAPRQERLRLVSGPHRCAGRLEVWHGGRWGTVCDDGWDLRDAAVACRELGCGGALAAPGGARFGPGAGPVWMDDVGCGGGEQALRDCPRSPWGRSNCDHSEDAGLVCTGPAPRLRLADGPHGCAGRLEVWHGGRWGSVCDDAWDLRDAAVACRELGCGGALAAPGGAFFGEGSGPIILDDLRCRGNETALRFCPARPWGQHDCHHREDAGAVCDGMPLGYVPPTAPTDSNNSTPREAASRPPSTMTSQAPGTAGVSPPPASPTVLWEPGPEAGSPQLRLVAGPSKCSGRLEVWHDQRWGTVCDDSWDMRDSAVVCRELGCGGPQQPDPAAGRFGWGAGPIWLDDVGCVGTEASLSDCPAAPWGKHNCAHNEDVGVTCTGPPGLDSISDPFSWSWIPGLGRDRDAWLPGELATKPSASVTASVLEKTTTKAPGKMPKSTKKWVTKNAKRPTTQPPVMPTTKHSRAQSPPDLTSQTTAALTTEASRRPTSEFTRRPTTEAPQRWTSHTTATLTPQAPRERTTKTMAMLTTQGPQEMTSESTIKSIPQASLEPSAEIPEGSPESPKDPAPSPSVSTTGESGLFRVRLADGPNRCAGRLEVWHAGRWGTVCDDNWDLRDATVACWELGCGKVRPRVGKTHYGPGTGPIWLDDMGCKGSEASLSDCPSGAWGKHNCDHEEDVGLTCTGYTDYDDYPPWTWDPTSREDLAKGTTTAGVPGHTLPWRTTRRPGSSSPAIRRLPDTGSKDGYKLPWTWDTPSGRGLAEGTPTAGKLGPTLGAGTTRSPGSPPTLRVHGDTGSPRKPWPERRPPRPAATRTAPPTPSPGPSASPGPPGPALTSDSSRELTPHSALTSEATSDAPDTSPPTPDPASRTNPDLILTSPDFALSTPDSSVVPALTPEPSPTPLPTLPKELTSDPSTPSEVTSLSPTSEQVPESDTTPDLDTTPYSSTVSEYSRSPDPSPSPHPTTTPDPTMAPDPITTLNPTVTPHFPTTPHPTTTPHPTTITHSTMIPDPTTTPQPFTTITHSTMIPDPTTTPQPFTTMQPTTTPHSTTPHPTTTPHPTTITHSTMIPDPTTTPQPFTTMQPTTMPHPTTTPHPTTTPHPTTTPHPTTTPHPTMTPDPTTTPYPTTTPDPTTTPHPTTPDPSSTPVITTVSLPTSLGTELSSPTLAPTVKPSLHPQLTFTAPAPHTSTSQIPTLEPSPALESSPSRSSTATSMDPLSTEDFKPPRSQSPNLTPPPTHTPHSASDLTVSPDPLLSPTAHPLDHPPLDPLTLGPTPGQSPGPHGPCVAPTPPVRVMACEPPALVELVAAVRDVGGQLQRLTQVVEQERQERQALLLGLTQLVEAARGLGQLGEAVKRLAEMAWTTSMPAPTTTTPEEEERPLRGDV |
| 6215 | sp|Q70PP2|SMG1\_DROME | MKNAIHPENCNGAGTEEEASSAFHAEIDRVLLNNNGNHGDSSNEGGGGNGSGRGGATGSGNIAGLGGSESMWSPGGGKSHDVAQAFANALLLRNMNHVVGKGQPVVQNHRKAYQCKGDTINPMANGEDLRLSKIIRRLINENNPTVSLELCSKLDQAVRTPINMGYMTCSFVWILDNMLTLYKQCPPPVLEECSKTLGLIGFINRKSYPIYEEFIVKNYKSSKRMQKYMIMALRATLSCDTKCELHMYADKIMLLLKDFLENAESADIFIVVSNTLVQFAASYAETFECHFTDVVDIVIGWQLEAGQPTDLKTHCAQVLEQLTPFFSKQIDFSYGLLDQFVEDITTLEEGEPANTAERVGAFVGAFNTLLKCLARMQIFVGMPTCECIVKMAVDHLIKIMPTLHLNTEALVNINELICICLLNNFTGLDPILLEQVLLDQVKRMISLTELQRQSVLYLLLCTVRRLRARLTPSLVHFIFQSNPYMTKVRLRSPGETSYKLLLRTCQETLLIRNVPLLQQAYKYLVDDIDACLEKLLITAPRSKARKASVLLVFHLSALAALAKQTSSIIGMYACKPSILELLLTNCRAHELKFWSKYPAAQQAIFGLLVVHCQANHNFRTNSSLLRDQELSAENTSPTANSFASILRFLDSVLGQAHQLAPQNLRVLLQWIQMLLRECREKIDLLMEQENFRGICRNIAATASKLVPLESAACIQTVLDYGLERLEKYPKLLILYRDTALQQLQMLSTNYHAPYFQIYAQLPLHLTLTGGESSMPGMASRRVSVWQQRISQYSAVRDNVFRDFFDRVQKPEQDSLIHCLRELFVRSCQVAPQDERQMNLSQCTKRCQRLAIAWLQFEAARYCVDQRLRTTVGKPQETFLGFEAIIMRHARLLSGCAKEIERSALDDLSLEELLSMQSNLSLLLGFLDALEKLIYNAAEGSAFALRPPEKQVAAFFRLNNPTCQSWFNRIRIGVVIIAMHVQQPELVIRYAQQILVNSKTQDPTYSQAIVYMAWSLVSCQEADSLRGLRLWARGKSCKSYKWLKYAADQAAGKRESALAGYRTILAEKELQSELEPHTRQFVVSQMMQCLQDLGQWSQLVELKQQQMTRPEDRELNPFLQRSNVEVNALERLLAKSEESCSSMDALGGVFQQLSLWPSNWDESVSSSGLSERASFSSIHMRQRTEDIVLHKLLEDRCVPDQAKNLLDTQWRDSLLNPSFDQRSCKELTLLRHIVQGVSGGQELSLLPVSSGRCQNRSKFISSAILMRCLAWTQLLRQHCAPGSWETLCLDAAAAAREEGNLQLAETLLTQFFGQPIGEIAALFSLEQGVQTDNPEMLRGYSELVKCLHLQQQQSQTHSGDLSSSIDVCAALCLNIQKSNNQPAAGADLLLNLADWIAVRTCNGLTTNQSPVLIQLLDQLPECPLTCDSSQPLAIPQAERMVARLVHSCLQQRPNYAEALIAYGNWCYRWGKKVADSCCVLTQADATAISQALDIPQPLESEKLDELLQALSTEQPPANCVEVCPDAARARDDEAAKNRLRRLTFLADKTPEALDAILQIWRRAIANTYDYYKDAARSYFQYLSFKSGSGPEKPEGEGVVSQRERLHVDDSNLVTTTLRLLRLIVKHASGLQEVLEQGLHTTPIAPWKVIIPQLFSRLNHHEPYVRKSVCDLLCRLAKSRPQLVIFPAVVGANREQQDATAPPATARPTTEDACCYGYLLGELSKQAPEAVQHVKLMVKELRRVCLLWDEYWIHSLAHIYNTYVSRVSALATDFRPDDHEGKNNRFNVWRPQLLADLEALVAVTSRPPETTYERSFRKRFDAPIRLTVDALRHRRYPEAWDKLKQLYHILQSNMIRGSGSTLKMQSISPVLCGIGRMRISMPGLDAHGPDGDQVYIESVESSVCVLPTKTKPKKVAFYGSNGQRYTFLFKGMEDLHLDERIMQFLSISNAIMACRSDAPGNGCYRAHHYSVIPLGPQSGLISWVDGVTPVFALYKKWQQRRSQVAGNAGAGAVANVPRRFTDLFYNKLSPLLAKHNMQVSDPRRQWPISVLLQVLDELSQETPNDLLARELWCQAGNAAEWRQSVRRFVRCMSVMSMIGYVIGLGDRHLDNVLINLGSGDIVHIDYNVCFEKGRTLRIPEKVPFRLTQNLVQAMGITGIEGPFRLGCEYVLKVMRKERETLLTLLEAFVYDPLVDWTTNDDAQALRRSLNAKLQESADGGGAGGLGVGDLKYHKKDKNKGKPLDSDVKRQPFLSKLGMLQKYWSTNKTELMPQLEEMEQEVGNLQAAQAKQVVAEEELVKLNQRSALIAEIKSLGTAIESHSFNTASLRNAVRRGHSEALALLSTERLPDFGRVQCILRSYGQCLQLYHLLDLQGQLVKLQMESNSENAREFSALTEALQLSGLDSMRSQLNELLGRMDMVAQKSSKHLQEYAGVMNFYPEQSHRQNLFVRFHDSFATYIQNGYTADSTTNTNSPSSSIICKADVVGVAEAMEYSWERLGCQLHEASKLYAANQAQALTLGAPTTALLSMIVQSGCSQLLLKASLVRTLDRAGGAFAAYEQVALASHDDGLLHHQLLFIHLVRTMLQGVLVMTKEEDQHLAQLESLLSALSHLKKMFEYDLPANLYRLLLLQPNLGKLSALCHLSASSLAQLFLEATMENGHKPPDQFPVERRFLLTLQPVYDQFLLASTSLDSLVSSMQSMLEDVHDVQTQQIMELGLMRSCHTELNDECFFGLVSEALESSRTCDVREMARPMLGFIHRLQVEKLAGLLPILTRNFYTAVGPQCLPTASCGDPAQADHLCESLFISLQSDGALLQQQAEIALLSQQVDLHTLAASAQYWAYSEALGSQLRCGPHIVSRPKLTAAIGECWLELDQKLTALQQLQAGLESQLSQLQTQRSNWNRNHIDNLLRMEQCNKQRTMSHVALLQKMTDGAGAVARLEQNAIVVGEEGQALVDHLEQWLAAHGQWQASSSRISAVEQSMVELLDPEGAIDHYWLENVQGLLEEQTCKVHREIAAIEGEQQSKHRFICTLLKETLRLLENMPRFHVQSLCSEAQAQGQGKMEYANVQLLSDHLREGQGLMQSLYMRLQELRKDICSDRRVLQPSMLQNWRHQLEMILTLAKQEVNEFFKGLEDFMQHAGETDSYEIFTHAKGSGNVHEQKRNAYGVSVWKKIRMKLEGRDPDSNQRSTVAEQVDYVIREACNPENLAVLYEGWTPWV |
| 6216 | sp|Q9DDT5|SPT5H\_DANRE | MSDSEDSDFSDNQSERSSEAEEVEENEEEEEQGSVAGSDKAEEEGEDLEDEEEYDEEEEEDDDRPRKKARHGGFILDEADVDDEYEDEDPWEDGAEDILEKEEAEVSNLDHVVLDEDHSGSRRLQNLWRDSREEALGEYYMRKYAKSSGGEHFYGGSEDLSDDITQQQLLPGVKDPNLWTVKCKIGEERATAISLMRKFVAYQCTDTPLQIKSVVAPEHVKGYIYVEAYKQTHVKAAIEGVGNLRMGFWNQQMVPIKEMTDVLKVVKEVTNLKPKSWVRLKRGLYKDDIAQVDYVEPSQNTISLKMIPRIDLDRIKARMSMKDWFAKRKKFKRPPQRLFDAEKIRSLGGEVSHDGDFMIFEANRYSRKGFLFKSFAMSAVITEGVKPTLSELEKFEDQPEGIDLEVVTETTGKEREHNLQAGDNVEVCEGELINLQGKILSVDGNKITIMPKHEDLKDPLEFPAHELRKYFRMGDHVKVIAGRYEGDTGLIVRVEENFVILFSDLTMHELKVLPRDLQLCSETASGVDAGGQHEWGELVQLDPQTVGVIVRLERETFQVLNMHGKVLTVRHQAVNRRKDNRFAVALDSEQNNIHVKDIVKVIDGPHSGREGEIRHIFRGFAFLHCKKLVENGGMFVCKARHLVLAGGSKPRDVTNFTVGGFAPMSPRISSPMHPGGGGQPQRGGGGGGGGGMGRGRGRRDNDLIGQTVRISQGPYKGYIGVVKDATESTARVELHSTCQTISVDRQRLTTVGGKERQGRSSTHLRTPMYGSQTPIYGTGSRTPMYGSQTPLHDGSRTPHYGSQTPLHDGSRTPGQSGAWDPNNPNTPSRPDDEYEFAYDDEPSPSPQGYGGTPNPQTPGYPEVPSPQVNPQYNPQTPGTPAMYNTDQYSPYAAPSPQGSYQPSPSPQSYHQVAPSPVGYQNTHSPASYHPTPSPMAYQASPSPSPVGYSPMTPGAPSPGGYNPHTPGSNIDQASNDWVTTDIMVRVKDTFLDGGVINQTGIIRSVTGGMCSVFLQDTEKVVSISSEHLEPVTPTKNNKVKVILGEDREATGVLLSIDGEDGIVRMELDEQLKILNLRFLGKLEV |
| 6217 | sp|O43295|SRGP3\_HUMAN | MSSQTKFKKDKEIIAEYEAQIKEIRTQLVEQFKCLEQQSESRLQLLQDLQEFFRRKAEIELEYSRSLEKLAERFSSKIRSSREHQFKKDQYLLSPVNCWYLVLHQTRRESRDHATLNDIFMNNVIVRLSQISEDVIRLFKKSKEIGLQMHEELLKVTNELYTVMKTYHMYHAESISAESKLKEAEKQEEKQFNKSGDLSMNLLRHEDRPQRRSSVKKIEKMKEKRQAKYSENKLKCTKARNDYLLNLAATNAAISKYYIHDVSDLIDCCDLGFHASLARTFRTYLSAEYNLETSRHEGLDVIENAVDNLDSRSDKHTVMDMCNQVFCPPLKFEFQPHMGDEVCQVSAQQPVQTELLMRYHQLQSRLATLKIENEEVRKTLDATMQTLQDMLTVEDFDVSDAFQHSRSTESVKSAASETYMSKINIAKRRANQQETEMFYFTKFKEYVNGSNLITKLQAKHDLLKQTLGEGERAECGTTRPPCLPPKPQKMRRPRPLSVYSHKLFNGSMEAFIKDSGQAIPLVVESCIRYINLYGLQQQGIFRVPGSQVEVNDIKNSFERGEDPLVDDQNERDINSVAGVLKLYFRGLENPLFPKERFQDLISTIKLENPAERVHQIQQILVTLPRVVIVVMRYLFAFLNHLSQYSDENMMDPYNLAICFGPTLMHIPDGQDPVSCQAHINEVIKTIIIHHEAIFPSPRELEGPVYEKCMAGGEEYCDSPHSEPGAIDEVDHDNGTEPHTSDEEVEQIEAIAKFDYMGRSPRELSFKKGASLLLYHRASEDWWEGRHNGVDGLIPHQYIVVQDMDDAFSDSLSQKADSEASSGPLLDDKASSKNDLQSPTEHISDYGFGGVMGRVRLRSDGAAIPRRRSGGDTHSPPRGLGPSIDTPPRAAACPSSPHKIPLTRGRIESPEKRRMATFGSAGSINYPDKKALSEGHSMRSTCGSTRHSSLGDHKSLEAEALAEDIEKTMSTALHELRELERQNTVKQAPDVVLDTLEPLKNPPGPVSSEPASPLHTIVIRDPDAAMRRSSSSSTEMMTTFKPALSARLAGAQLRPPPMRPVRPVVQHRSSSSSSSGVGSPAVTPTEKMFPNSSADKSGTM |
| 6218 | sp|Q9NRH2|SNRK\_HUMAN | MAGFKRGYDGKIAGLYDLDKTLGRGHFAVVKLARHVFTGEKVAVKVIDKTKLDTLATGHLFQEVRCMKLVQHPNIVRLYEVIDTQTKLYLILELGDGGDMFDYIMKHEEGLNEDLAKKYFAQIVHAISYCHKLHVVHRDLKPENVVFFEKQGLVKLTDFGFSNKFQPGKKLTTSCGSLAYSAPEILLGDEYDAPAVDIWSLGVILFMLVCGQPPFQEANDSETLTMIMDCKYTVPSHVSKECKDLITRMLQRDPKRRASLEEIENHPWLQGVDPSPATKYNIPLVSYKNLSEEEHNSIIQRMVLGDIADRDAIVEALETNRYNHITATYFLLAERILREKQEKEIQTRSASPSNIKAQFRQSWPTKIDVPQDLEDDLTATPLSHATVPQSPARAADSVLNGHRSKGLCDSAKKDDLPELAGPALSTVPPASLKPTASGRKCLFRVEEDEEEDEEDKKPMSLSTQVVLRRKPSVTNRLTSRKSAPVLNQIFEEGESDDEFDMDENLPPKLSRLKMNIASPGTVHKRYHRRKSQGRGSSCSSSETSDDDSESRRRLDKDSGFTYSWHRRDSSEGPPGSEGDGGGQSKPSNASGGVDKASPSENNAGGGSPSSGSGGNPTNTSGTTRRCAGPSNSMQLASRSAGELVESLKLMSLCLGSQLHGSTKYIIDPQNGLSFSSVKVQEKSTWKMCISSTGNAGQVPAVGGIKFFSDHMADTTTELERIKSKNLKNNVLQLPLCEKTISVNIQRNPKEGLLCASSPASCCHVI |
| 6219 | sp|Q96SB4|SRPK1\_HUMAN | MERKVLALQARKKRTKAKKDKAQRKSETQHRGSAPHSESDLPEQEEEILGSDDDEQEDPNDYCKGGYHLVKIGDLFNGRYHVIRKLGWGHFSTVWLSWDIQGKKFVAMKVVKSAEHYTETALDEIRLLKSVRNSDPNDPNREMVVQLLDDFKISGVNGTHICMVFEVLGHHLLKWIIKSNYQGLPLPCVKKIIQQVLQGLDYLHTKCRIIHTDIKPENILLSVNEQYIRRLAAEATEWQRSGAPPPSGSAVSTAPQPKPADKMSKNKKKKLKKKQKRQAELLEKRMQEIEEMEKESGPGQKRPNKQEESESPVERPLKENPPNKMTQEKLEESSTIGQDQTLMERDTEGGAAEINCNGVIEVINYTQNSNNETLRHKEDLHNANDCDVQNLNQESSFLSSQNGDSSTSQETDSCTPITSEVSDTMVCQSSSTVGQSFSEQHISQLQESIRAEIPCEDEQEQEHNGPLDNKGKSTAGNFLVNPLEPKNAEKLKVKIADLGNACWVHKHFTEDIQTRQYRSLEVLIGSGYNTPADIWSTACMAFELATGDYLFEPHSGEEYTRDEDHIALIIELLGKVPRKLIVAGKYSKEFFTKKGDLKHITKLKPWGLFEVLVEKYEWSQEEAAGFTDFLLPMLELIPEKRATAAECLRHPWLNS |
| 6220 | sp|Q23983|SNAP\_DROME | MGDNEQKALQLMAEAEKKLTQQKGFLGSLFGGSNKVEDAIECYQRAGNMFKMSKNWTKAGECFCEAATLHARAGSRHDAGTCYVDASNCYKKVDVESAVNCLMKSIDIYTDMGRFTMAAKHHQSIAEMYESDPNNLAKSIQHYEQAADYFKGEESVSSANKCMLKVAQYAAQLEDYEKAISIYEQVAASSLESSLLKYSAKEYFFRAALCHLSVDLLNAQHAIEKYAQQYPAFQDSREFKLIKVLCENLEEQNIEGFTEAVKDYDSISRLDQWYTTILLRIKKAADEDPDLR |
| 6221 | sp|Q9R0U0|SRS10\_MOUSE | MSRYLRPPNTSLFVRNVADDTRSEDLRREFGRYGPIVDVYVPLDFYTRRPRGFAYVQFEDVRDAEDALHNLDRKWICGRQIEIQFAQGDRKTPNQMKAKEGRNVYSSSRYDDYDRYRRSRSRSYERRRSRSRSFDYNYRRSYSPRNSRPTGRPRRSRSHSDNDRFKHRNRSFSRSKSNSRSRSKSQPKKEMKAKSRSRSASHTKTRGTSKTDSKTHYKSGSRYEKESRKKEPPRSKSQSRSQSRSRSKSRSRSWTSPKSSGH |
| 6222 | sp|Q96H20|SNF8\_HUMAN | MHRRGVGAGAIAKKKLAEAKYKERGTVLAEDQLAQMSKQLDMFKTNLEEFASKHKQEIRKNPEFRVQFQDMCATIGVDPLASGKGFWSEMLGVGDFYYELGVQIIEVCLALKHRNGGLITLEELHQQVLKGRGKFAQDVSQDDLIRAIKKLKALGTGFGIIPVGGTYLIQSVPAELNMDHTVVLQLAEKNGYVTVSEIKASLKWETERARQVLEHLLKEGLAWLDLQAPGEAHYWLPALFTDLYSQEITAEEAREALP |
| 6223 | sp|Q13190|STX5\_HUMAN | MIPRKRYGSKNTDQGVYLGLSKTQVLSPATAGSSSSDIAPLPPPVTLVPPPPDTMSCRDRTQEFLSACKSLQTRQNGIQTNKPALRAVRQRSEFTLMAKRIGKDLSNTFAKLEKLTILAKRKSLFDDKAVEIEELTYIIKQDINSLNKQIAQLQDFVRAKGSQSGRHLQTHSNTIVVSLQSKLASMSNDFKSVLEVRTENLKQQRSRREQFSRAPVSALPLAPNHLGGGAVVLGAESHASKDVAIDMMDSRTSQQLQLIDEQDSYIQSRADTMQNIESTIVELGSIFQQLAHMVKEQEETIQRIDENVLGAQLDVEAAHSEILKYFQSVTSNRWLMVKIFLILIVFFIIFVVFLA |
| 6224 | sp|P53538|SSU72\_YEAST | MPSHRNSNLKFCTVCASNNNRSMESHKVLQEAGYNVSSYGTGSAVRLPGLSIDKPNVYSFGTPYNDIYNDLLSQSADRYKSNGLLQMLDRNRRLKKAPEKWQESTKVFDFVFTCEERCFDAVCEDLMNRGGKLNKIVHVINVDIKDDDENAKIGSKAILELADMLNDKIEQCEKDDIPFEDCIMDILTEWQSSHSQLPSLYAPSYY |
| 6225 | sp|P49675|STAR\_HUMAN | MLLATFKLCAGSSYRHMRNMKGLRQQAVMAISQELNRRALGGPTPSTWINQVRRRSSLLGSRLEETLYSDQELAYLQQGEEAMQKALGILSNQEGWKKESQQDNGDKVMSKVVPDVGKVFRLEVVVDQPMERLYEELVERMEAMGEWNPNVKEIKVLQKIGKDTFITHELAAEAAGNLVGPRDFVSVRCAKRRGSTCVLAGMATDFGNMPEQKGVIRAEHGPTCMVLHPLAGSPSKTKLTWLLSIDLKGWLPKSIINQVLSQTQVDFANHLRKRLESHPASEARC |
| 6226 | sp|Q64704|STX3\_MOUSE | MKDRLEQLKAKQLTQDDDTDEVEIAIDNTAFMDEFFSEIEETRLNIDKISEHVEEAKKLYSIILSAPIPEPKTKDDLEQLTTEIKKRANNVRNKLKSMEKHIEEDEVRSSADLRIRKSQHSVLSRKFVEVMTKYNEAQVDFRERSKGRIQRQLEITGKKTTDEELEEMLESGNPAIFTSGIIDSQISKQALSEIEGRHKDIVRLESSIKELHDMFMDIAMLVENQGEMLDNIELNVMHTVDHVEKARDETKRAMKYQGQARKKLIIIIVVVVVLLGILALIIGLSVGLK |
| 6227 | sp|Q6PI48|SYDM\_HUMAN | MYFPSWLSQLYRGLSRPIRRTTQPIWGSLYRSLLQSSQRRIPEFSSFVVRTNTCGELRSSHLGQEVTLCGWIQYRRQNTFLVLRDFDGLVQVIIPQDESAASVKKILCEAPVESVVQVSGTVISRPAGQENPKMPTGEIEIKVKTAELLNACKKLPFEIKNFVKKTEALRLQYRYLDLRSFQMQYNLRLRSQMVMKMREYLCNLHGFVDIETPTLFKRTPGGAKEFLVPSREPGKFYSLPQSPQQFKQLLMVGGLDRYFQVARCYRDEGSRPDRQPEFTQIDIEMSFVDQTGIQSLIEGLLQYSWPNDKDPVVVPFPTMTFAEVLATYGTDKPDTRFGMKIIDISDVFRNTEIGFLQDALSKPHGTVKAICIPEGAKYLKRKDIESIRNFAADHFNQEILPVFLNANRNWNSPVANFIMESQRLELIRLMETQEEDVVLLTAGEHNKACSLLGKLRLECADLLETRGVVLRDPTLFSFLWVVDFPLFLPKEENPRELESAHHPFTAPHPSDIHLLYTEPKKARSQHYDLVLNGNEIGGGSIRIHNAELQRYILATLLKEDVKMLSHLLQALDYGAPPHGGIALGLDRLICLVTGSPSIRDVIAFPKSFRGHDLMSNTPDSVPPEELKPYHIRVSKPTDSKAERAH |
| 6228 | sp|Q08849|STX3\_RAT | MKDRLEQLKAKQLTQDDDTDEVEIAIDNTAFMDEFFSEIEETRLNIDKISEHVEEAKKLYSIILSAPIPEPKTKDDLEQLTTEIKKRANNVRNKLKSMEKHIEEDEVRSSADLRIRKSQHSVLSRKFVEVMTKYNEAQVDFRERSKGRIQRQLEITGKKTTDEELEEMLESGNPAIFTSGIIDSQISKQALSEIEGRHKDIVRLESSIKELHDMFMDIAMLVENQGEMLDNIELNVMHTVDHVEKARDETKRAMKYQGQARKKLIIIIVIVVVLLGILALIIGLSVGLK |
| 6229 | sp|Q9C5G0|SUF4\_ARATH | MGKKKKRATEKVWCYYCDREFDDEKILVQHQKAKHFKCHVCHKKLSTASGMVIHVLQVHKENVTKVPNAKDGRDSTDIEIYGMQGIPPHVLTAHYGEEEDEPPAKVAKVEIPSAPLGGVVPRPYGMVYPPQQVPGAVPARPMYYPGPPMRHPAPVWQMPPPRPQQWYPQNPALSVPPAAHLGYRPQPLFPVQNMGMTPTPTSAPAIQPSPVTGVTPPGIPTSSPAMPVPQPLFPVVNNSIPSQAPPFSAPLPVGGAQQPSHADALGSADAYPPNNSIPGGTNAHSYASGPNTSGPSIGPPPVIANKAPSNQPNEVYLVWDDEAMSMEERRMSLPKYKVHDETSQMNSINAAIDRRISESRLAGRMAF |
| 6230 | sp|P30874|SSR2\_HUMAN | MDMADEPLNGSHTWLSIPFDLNGSVVSTNTSNQTEPYYDLTSNAVLTFIYFVVCIIGLCGNTLVIYVILRYAKMKTITNIYILNLAIADELFMLGLPFLAMQVALVHWPFGKAICRVVMTVDGINQFTSIFCLTVMSIDRYLAVVHPIKSAKWRRPRTAKMITMAVWGVSLLVILPIMIYAGLRSNQWGRSSCTINWPGESGAWYTGFIIYTFILGFLVPLTIICLCYLFIIIKVKSSGIRVGSSKRKKSEKKVTRMVSIVVAVFIFCWLPFYIFNVSSVSMAISPTPALKGMFDFVVVLTYANSCANPILYAFLSDNFKKSFQNVLCLVKVSGTDDGERSDSKQDKSRLNETTETQRTLLNGDLQTSI |
| 6231 | sp|A2VEC9|SSPO\_HUMAN | MLLPALLFGMAWALADGRWCEWTETIRVEEEVAPRQEDLVPCASLDHYSRLGWRLDLPWSGRSGLTRSPAPGLCPIYKPPETRPAKWNRTVRTCCPGWGGAHCTEALAKASPEGHCFAMWQCQLQAGSANASAGSLEECCARPWGQSWWDGSSQACRSCSSRHLPGSASSPALLQPLAGAVGQLWSQHQRPSATCASWSGFHYRTFDGRHYHFLGRCTYLLAGAADSTWAVHLTPGDRCPQPGHCQRVTMGPEEVLIQAGNVSVKGQLVPEGQSWLLHGLSLQWLGDWLVLSGGLGVVVRLDRTGSISISVDHELWGQTQGLCGLYNGWPEDDFMEPGGGLAMLAATFGNSWRLPGSESGCLDAVEVAQGCDSPLGLIDADVEPGHLRAEAQDVCHQLLEGPFGQCHAQVSPAEYHEACLFAYCAGAMAGSGQEGRQQAVCATFASYVQACARRHIHIRWRKPGFCERLCPGGQLYSDCVSLCPPSCEAVGQGEEESCREECVSGCECPRGLFWNGTLCVPAAHCPCYYCRQRYVPGDTVRQLCNPCVCRDGRWHCAQALCPAECAVGGDGHYLTFDGRSYSFWGGQGCRYSLVQDYVKGQLLILLEHGACDAGSCLHAISVSLEDTHIQLRDSGAVLVNGQDVGLPWIGAEGLSVRRASSAFLLLRWPGAQVLWGLSDPVAYITLDPRHAHQVQGLCGTFTQNQQDDFLTPAGDVETSIAAFASKFQVAGKGRCPSEDSALLSPCTTHSQRHAFAEAACAILHSSVFQECHRLVDKEPFYLRCLAAVCGCDPGSDCLCPVLSAYARRCAQEGASPPWRNQTLCPVMCPGGQEYRECAPACGQHCGKPEDCGELGSCVAGCNCPLGLLWDPEGQCVPPSLCPCQLGARRYAPGSATMKECNRCICQERGLWNCTARHCPSQAFCPRELVYAPGACLLTCDSPSANHSCPAGSTDGCVCPPGTVLLDERCVPPDLCPCRHSGQWYLPNATIQEDCNVCVCRGRQWHCTGQRRSGRCQASGAPHYVTFDGLAFTYPGACEYLLVREASGLFTVSAQNLPCGASGLTCTKALAVRLEGTVVHMLRGRAVTVNGVSVTPPKVYTGPGLSLRRAGLFLLLSTHLGLTLLWDGGTRVLVQLSPQFRGRVAGLCGDFDGDASNDLRSRQGVLEPTAELAAHSWRLSPLCPEPGDLPHPCTMNTHRAGWARARCGALLQPLFTLCHAEVPPQQHYEWCLYDACGCDSGGDCECLCSAIATYADECARHGHHVRWRSQELCSLQCEGGQVYEACGPTCPPTCHEQHPEPGWHCQVVACVEGCFCPEGTLLHGGACLEPASCPCEWGRNSFPPGSVLQKDCGNCTCQEGQWHCGGDGGHCEELVPACAEGEALCQENGHCVPHGWLCDNQDDCGDGSDEEGCAAPGCGEGQMTCSSGHCLPLALLCDRQDDCGDGTDEPSYPCPQGLLACADGRCLPPALLCDGHPDCLDAADEESCLGQVTCVPGEVSCVDGTCLGAIQLCDGVWDCPDGADEGPGHCPLPSLPTPPASTLPGPSPGSLDTASSPLASASPAPPCGPFEFRCGSGECTPRGWRCDQEEDCADGSDERGCGGPCAPHHAPCARGPHCVSPEQLCDGVRQCPDGSDEGPDACGGLPALGGPNRTGLPCPEYTCPNGTCIGFQLVCDGQPDCGRPGQVGPSPEEQGCGAWGPWSPWGPCSRTCGPWGQGRSRRCSPLGLLVLQNCPGPEHQSQACFTAACPVDGEWSTWSPWSVCSEPCRGTMTRQRQCHSPQNGGRTCAALPGGLHSTRQTKPCPQDGCPNATCSGELMFQPCAPCPLTCDDISGQVTCPPDWPCGSPGCWCPEGQVLGSEGWCVWPRQCPCLVDGARYWPGQRIKADCQLCICQDGRPRRCRLNPDCAVDCGWSSWSPWAKCLGPCGSQSIQWSFRSSNNPRPSGRGRQCRGIHRKARRCQTEPCEGCEHQGQVHRVGERWHGGPCRVCQCLHNLTAHCSPYCPLGSCPQGWVLVEGTGESCCHCALPGENQTVQPMATPAAAPAPSPQIRFPLATYILPPSGDPCYSPLGLAGLAEGSLHASSQQLEHPTQAALLGAPTQGPSPQGWHAGGDAYAKWHTRPHYLQLDLLQPRNLTGILVPETGSSNAYASSFSLQFSSNGLHWHDYRDLLPGILPLPKLFPRNWDDLDPAVWTFGRMVQARFVRVWPHDVHHSDVPLQVELLGCEPGSPPAPLCPGVGLRCASGECVLRGGPCDGVLDCEDGSDEEGCVLLPEGTGRFHSTAKTLALSSAQPGQLLHWPREGLAETEHWPPGQESPTSPTETRPVSPGPASGVPHHGESVQMVTTTPIPQMEARTLPPGMAAVTVVPPHPVTPATPAGQSVAPGPFPPVQCGPGQTPCEVLGCVEQAQVCDGREDCLDGSDERHCARNLLMWLPSLPALWAASTVPFMMPTMALPGLPASRALCSPSQLSCGSGECLSAERRCDLRPDCQDGSDEDGCVDCVLAPWSVWSSCSRSCGLGLTFQRQELLRPPLPGGSCPRDRFRSQSCFVQACPVAGAWAMWEAWGPCSVSCGGGHQSRQRSCVDPPPKNGGAPCPGASQERAPCGLQPCSGGTDCELGRVYVSADLCQKGLVPPCPPSCLDPKANRSCSGHCVEGCRCPPGLLLHDTRCLPLSECPCLVGEELKWPGVSFLLGNCSQCVCEKGELLCQPGGCPLPCGWSAWSSWAPCDRSCGSGVRARFRSPSNPPAAWGGAPCEGDRQELQGCHTVCGTEVFGWTPWTSWSSCSQSCLAPGGGPGWRSRSRLCPSPGDSSCPGDATQEEPCSPPVCPVPSIWGLWAPWSTCSAPCDGGIQTRGRSCSSLAPGDTTCPGPHSQTRDCNTQPCTAQCPENMLFRSAEQCHQEGGPCPRLCLTQGPGIECTGFCAPGCTCPPGLFLHNASCLPRSQCPCQLHGQLYASGAMARLDSCNNCTCVSGKMACTSERCPVACGWSPWTLWSLCSCSCNVGIRRRFRAGTAPPAAFGGAECQGPTMEAEFCSLRPCPGPGGEWGPWSPCSVPCGGGYRNRTRGSSRSLMEFSTCGLQPCAGPVPGMCPRDKQWLDCAQGPASCAELSAPRGTNQTCHPGCHCPSGMLLLNNVCVPTQDCPCAHEGHLYPPGSTVVRPCENCSCVSGLIANCSSWPCAEGEPTWSPWTPWSQCSASCGPARCHRHRFCARSPSAVPSTVAPLPLPATPTPLCSGPEAEEEPCLLQGCDRAGGWGPWGPWSHCSRSCGGGLRSRTRACDQPPPQGLGDYCEGPRAQGEVCQALPCPVTNCTAIEGAEYSPCGPPCPRSCDDLVHCVWRCQPGCYCPPGQVLSSNGAICVQPGHCSCLDLLTGQRHHPGARLARPDGCNHCTCLEGRLNCTDLPCPVPGGWCPWSEWTMCSQPCRGQTRSRSRACACPTPQHGGAPCTGEAGEAGAQHQREACPSYATCPVDGAWGPWGPWSPCDMCLGQSHRSRACSRPPTPEGGRPCPGNHTQSRPCQENSTQCTDCGGGQSLHPCGQPCPRSCQDLSPGSVCQPGSVGCQPTCGCPLGQLSQDGLCVPPAHCRCQYQPGAMGIPENQSRSAGSRFSSWESLEPGEVVTGPCDNCTCVAGILQCQEVPDCPDPGVWSSWGPWEDCSVSCGGGEQLRSRRCARPPCPGPARQSRTCSTQVCREAGCPAGRLYRECQPGEGCPFSCAHVTQQVGCFSEGCEEGCHCPEGTFQHRLACVQECPCVLTAWLLQELGATIGDPGQPLGPGDELDSGQTLRTSCGNCSCAHGKLSCSLDDCFEADGGFGPWSPWGPCSRSCGGLGTRTRSRQCVLTMPTLSGQGCRGPRQDLEYCPSPDCPGAEGSTVEPVTGLPGGWGPWSSWSPCSRSCTDPARPAWRSRTRLCLANCTMGDPLQERPCNLPSCTELPVCPGPGCGAGNCSWTSWAPWEPCSRSCGVGQQRRLRAYRPPGPGGHWCPNILTAYQERRFCNLRACPVPGGWSRWSPWSWCDRSCGGGQSLRSRSCSSPPSKNGGAPCAGERHQARLCNPMPCEAGCPAGMEVVTCANRCPRRCSDLQEGIVCQDDQVCQKGCRCPKGSLEQDGGCVPIGHCDCTDAQGHSWAPGSQHQDACNNCSCQAGQLSCTAQPCPPPTHCAWSHWSAWSPCSHSCGPRGQQSRFRSSTSGSWAPECREEQSQSQPCPQPSCPPLCLQGTRSRTLGDSWLQGECQRCSCTPEGVICEDTECAVPEAWTLWSSWSDCPVSCGGGNQVRTRACRAAAPHHRSPPCLGPDTQTRQQPCPGLLEACSWGPWGPCSRSCGPGLASRSGSCPCLMAKADPTCNSTFLHLDTQGCYSGPCPEECVWSSWSSWTRCSCRVLVQQRYRHQGPASRGARAGAPCTRLDGHFRPCLISNCSEDSCTPPFEFHACGSPCAGLCATHLSHQLCQDLPPCQPGCYCPKGLLEQAGGCIPPEECNCWHTSAAGAGMTLAPGDRLQLGCKECECRRGELHCTSQGCQGLLPLSEWSEWSPCGPCLPPSALAPASRTALEEHWLRDPTGLSPTLAPLLASEQHRHRLCLDPATGRPWTGAPHLCTAPLSQQRLCPDPGACPDSCQWSLWGPWSPCQVPCSGGFRLRWREAEALCGGGCREPWAQESCNGGPCPESCEAQDTVFTLDCANQCPHSCADLWDRVQCLQGPCRPGCRCPPGQLVQDGRCVPISSCRCGLPSANASWELAPAQAVQLDCQNCTCVNESLVCPHQECPVLGPWSAWSSCSAPCGGGTMERHRTCEGGPGVAPCQAQDTEQRQECNLQPCPECPPGQVLSACATSCPCLCWHLQPGAICVQEPCQPGCGCPGGQLLHNGTCVPPTACPCTQHSLPWGLTLTLEEQAQELPPGTVLTRNCTRCVCHGGAFSCSLVDCQVPPGETWQQVAPGELGLCEQTCLEMNATKTQSNCSSARASGCVCQPGHFRSQAGPCVPEDHCECWHLGRPHLPGSEWQEACESCLCLSGRPVCTQHCSPLTCAQGEEMVLEPGSCCPSCRREAPEEQSPSCQLLTELRNFTKGTCYLDQVEVSYCSGYCPSSTHVMPEEPYLQSQCDCCSYRLDPESPVRILNLRCLGGHTEPVVLPVIHSCQCSSCQGGDFSKR |
| 6232 | sp|P83094|STIM\_DROME | MRKNTIWNYSLIFFCCVLKSISTLDHGPHTVSVDSNRHNTQHQYKQNPNVASQRHSSHESGQSLHNSQSEHVTHIAASHAGSGGEHSTHLAQNLHRSSYNLLSEAMSQAVSNEFSSMGSGSADGACAADDFDCYSGSVQDRFGMEAIASLHRQLDDDDNGNIDLSESDDFLREELKYDSGYEKRQKAFHFNDDMHISVKELWEAWLRSEVHNWTIEQTTDWLAQSVQLPQYVDLFKLHKVTGAALPRLAVNNLQYVGNVLGIKDPIHKQKISLKAMDVVLFGPPRETGTRWKDYILVTLLLSAIIGCWYAYQQNKNAKRHLRRMAQDMEGLQRAEQSLQEMQKELERARMEQENVATEKLDLERRLKEAPTLSSSNSDLEVQQLKKEIEMLRNELSRAEFELVDNCWSPPPQLQSWLQYTYELESKNHQKKRTSAEKQLQSAREACEKLRKKRSSLVGAFVSTHGKSIDDVDRSIVEARNALGDVTNELQERLHRWKQIETCLGLNIVNNNGLPYLENVLYGRNGGLQSSMGMSSTKGSRARITNSTEDLDDESIQGKLNFENFSLLATE |
| 6233 | sp|Q07478|SUB2\_YEAST | MSHEGEEDLLEYSDNEQEIQIDASKAAEAGETGAATSATEGDNNNNTAAGDKKGSYVGIHSTGFKDFLLKPELSRAIIDCGFEHPSEVQQHTIPQSIHGTDVLCQAKSGLGKTAVFVLSTLQQLDPVPGEVAVVVICNARELAYQIRNEYLRFSKYMPDVKTAVFYGGTPISKDAELLKNKDTAPHIVVATPGRLKALVREKYIDLSHVKNFVIDECDKVLEELDMRRDVQEIFRATPRDKQVMMFSATLSQEIRPICRRFLQNPLEIFVDDEAKLTLHGLQQYYIKLEEREKNRKLAQLLDDLEFNQVIIFVKSTTRANELTKLLNASNFPAITVHGHMKQEERIARYKAFKDFEKRICVSTDVFGRGIDIERINLAINYDLTNEADQYLHRVGRAGRFGTKGLAISFVSSKEDEEVLAKIQERFDVKIAEFPEEGIDPSTYLNN |
| 6234 | sp|Q8WXE9|STON2\_HUMAN | MTTLDHVIATHQSEWVSFNEEPPFPAHSQGGTEEHLPGLSSSPDQSESSSGENHVVDGGSQDHSHSEQDDSSEKMGLISEAASPPGSPEQPPPDLASAISNWVQFEDDTPWASTSPPHQETAETALPLTMPCWTCPSFDSLGRCPLTSESSWTTHSEDTSSPSFGCSYTDLQLINAEEQTSGQASGADSTDNSSSLQEDEEVEMEAISWQASSPAMNGHPAPPVTSARFPSWVTFDDNEVSCPLPPVTSPLKPNTPPSASVIPDVPYNSMGSFKKRDRPKSTLMNFSKVQKLDISSLNRTPSVTEASPWRATNPFLNETLQDVQPSPINPFSAFFEEQERRSQNSSISSTTGKSQRDSLIVIYQDAISFDDSSKTQSHSDAVEKLKQLQIDDPDHFGSATLPDDDPVAWIELDAHPPGSARSQPRDGWPMMLRIPEKKNIMSSRHWGPIFVKLTDTGYLQLYYEQGLEKPFREFKLEICHEISEPRLQNYDENGRIHSLRIDRVTYKEKKKYQPKPAVAHTAEREQVIKLGTTNYDDFLSFIHAVQDRLMDLPVLSMDLSTVGLNYLEEEITVDVRDEFSGIVSKGDNQILQHHVLTRIHILSFLSGLAECRLGLNDILVKGNEIVLRQDIMPTTTTKWIKLHECRFHGCVDEDVFHNSRVILFNPLDACRFELMRFRTVFAEKTLPFTLRTATSVNGAEVEVQSWLRMSTGFSANRDPLTQVPCENVMIRYPVPSEWVKNFRRESVLGEKSLKAKVNRGASFGSTSVSGSEPVMRVTLGTAKYEHAFNSIVWRINRLPDKNSASGHPHCFFCHLELGSDREVPSRFANHVNVEFSMPTTSASKASVRSISVEDKTDVRKWVNYSAHYSYQVALGSIWLMLPTPFVHPTTLPLLFLLAMLTMFAW |
| 6235 | sp|Q05344|SSRP1\_DROME | MTDSLEYNDINAEVRGVLCSGRLKMTEQNIIFKNTKTGKVEQISAEDIDLINSQKFVGTWGLRVFTKGGVLHRFTGFRDSEHEKLGKFIKAAYSQEMVEKEMCVKGWNWGTARFMGSVLSFDKESKTIFEVPLSHVSQCVTGKNEVTLEFHQNDDAPVGLLEMRFHIPAVESAEEDPVDKFHQNVMSKASVISASGESIAIFREIQILTPRGRYDIKIFSTFFQLHGKTFDYKIPMDSVLRLFMLPHKDSRQMFFVLSLDPPIKQGQTRYHYLVLLFAPDEETTIELPFSEAELRDKYEGKLEKEISGPVYEVMGKVMKVLIGRKITGPGNFIGHSGTAAVGCSFKAAAGYLYPLERGFIYIHKPPLHIRFEEISSVNFARSGGSTRSFDFEVTLKNGTVHIFSSIEKEEYAKLFDYITQKKLHVSNMGKDKSGYKDVDFGDSDNENEPDAYLARLKAEAREKEEDDDDGDSDEESTDEDFKPNENESDVAEEYDSNVESDSDDDSDASGGGGDSDGAKKKKEKKSEKKEKKEKKHKEKERTKKPSKKKKDSGKPKRATTAFMLWLNDTRESIKRENPGIKVTEIAKKGGEMWKELKDKSKWEDAAAKDKQRYHDEMRNYKPEAGGDSDNEKGGKSSKKRKTEPSPSKKANTSGSGFKSKEYISDDDSTSSDDEKDNEPAKKKSKPPSDGDAKKKKAKSESEPEESEEDSNASDEDEEDEASD |
| 6236 | sp|O70439|STX7\_MOUSE | MSYTPGIGGDSAQLAQRISSNIQKITQCSVEIQRTLNQLGTPQDSPELRQLLQQKQQYTNQLAKETDKYIKEFGSLPTTPSEQRQRKIQKDRLVAEFTTSLTNFQKAQRQAAEREKEFVARVRASSRVSGGFPEDSSKEKNLVSWESQTQPQVQVQDEEITEDDLRLIHERESSIRQLEADIMDINEIFKDLGMMIHEQGDMIDSIEANVESAEVHVQQANQQLSRAADYQRKSRKTLCIIIFILVVRIVIICLIVWGLKG |
| 6237 | sp|P42229|STA5A\_HUMAN | MAGWIQAQQLQGDALRQMQVLYGQHFPIEVRHYLAQWIESQPWDAIDLDNPQDRAQATQLLEGLVQELQKKAEHQVGEDGFLLKIKLGHYATQLQKTYDRCPLELVRCIRHILYNEQRLVREANNCSSPAGILVDAMSQKHLQINQTFEELRLVTQDTENELKKLQQTQEYFIIQYQESLRIQAQFAQLAQLSPQERLSRETALQQKQVSLEAWLQREAQTLQQYRVELAEKHQKTLQLLRKQQTIILDDELIQWKRRQQLAGNGGPPEGSLDVLQSWCEKLAEIIWQNRQQIRRAEHLCQQLPIPGPVEEMLAEVNATITDIISALVTSTFIIEKQPPQVLKTQTKFAATVRLLVGGKLNVHMNPPQVKATIISEQQAKSLLKNENTRNECSGEILNNCCVMEYHQATGTLSAHFRNMSLKRIKRADRRGAESVTEEKFTVLFESQFSVGSNELVFQVKTLSLPVVVIVHGSQDHNATATVLWDNAFAEPGRVPFAVPDKVLWPQLCEALNMKFKAEVQSNRGLTKENLVFLAQKLFNNSSSHLEDYSGLSVSWSQFNRENLPGWNYTFWQWFDGVMEVLKKHHKPHWNDGAILGFVNKQQAHDLLINKPDGTFLLRFSDSEIGGITIAWKFDSPERNLWNLKPFTTRDFSIRSLADRLGDLSYLIYVFPDRPKDEVFSKYYTPVLAKAVDGYVKPQIKQVVPEFVNASADAGGSSATYMDQAPSPAVCPQAPYNMYPQNPDHVLDQDGEFDLDETMDVARHVEELLRRPMDSLDSRLSPPAGLFTSARGSLS |
| 6238 | sp|O43805|SSNA1\_HUMAN | MTQQGAALQNYNNELVKCIEELCQKREELCRQIQEEEDEKQRLQNEVRQLTEKLARVNENLARKIASRNEFDRTIAETEAAYLKILESSQTLLSVLKREAGNLTKATAPDQKSSGGRDS |
| 6239 | sp|Q9UJZ1|STML2\_HUMAN | MLARAARGTGALLLRGSLLASGRAPRRASSGLPRNTVVLFVPQQEAWVVERMGRFHRILEPGLNILIPVLDRIRYVQSLKEIVINVPEQSAVTLDNVTLQIDGVLYLRIMDPYKASYGVEDPEYAVTQLAQTTMRSELGKLSLDKVFRERESLNASIVDAINQAADCWGIRCLRYEIKDIHVPPRVKESMQMQVEAERRKRATVLESEGTRESAINVAEGKKQAQILASEAEKAEQINQAAGEASAVLAKAKAKAEAIRILAAALTQHNGDAAASLTVAEQYVSAFSKLAKDSNTILLPSNPGDVTSMVAQAMGVYGALTKAPVPGTPDSLSSGSSRDVQGTDASLDEELDRVKMS |
| 6240 | sp|Q63537|SYN2\_RAT | MMNFLRRRLSDSSFIANLPNGYMTDLQRPEPQQPPPAPGPGTATASAATSAASPGPERRPPPAQAPAPQPAPQPAPTPSVGSSFFSSLSQAVKQTAASAGLVDAPAPSAASRKAKVLLVVDEPHTDWAKCFRGKKILGDYDIKVEQAEFSELNLVAHADGTYAVDMQVLRNGTKVVRSFRPDFVLIRQHAFGMAENEDFRHLVIGMQYAGLPSINSLESIYNFCDKPWVFAQMVAIFKTLGGEKFPLIEQTYYPNHREMLTLPTFPVVVKIGHAHSGMGKVKVENHYDFQDIASVVALTQTYATAEPFIDAKYDIRVQKIGNNYKAYMRTSISGNWKTNTGSAMLEQIAMSDRYKLWVDACSEMFGGLDICAVKAVHGKDGKDYIFEVMDCSMPLIGEHQVEDRQLITDLVISKMNQLLSRTPALSPQRPLTTQQPQSGTLKEPDSSKTPPQRPAPQGGPGQPQGMQPPGKVLPPRRLPSGPSLPPSSSSSSSSSSSSSAPQRPGGPTSTQVNASSSSNSLAEPQAPQAAPPQKPQPHPQLNKSQSLTNAFSFSESSFFRSSANEDEAKAETIRSLRKSFASLFSD |
| 6241 | sp|Q46AN5|SYS2\_METBF | MKLQFNLKAYFKTSADPTPAKDAIAALFEEANSTLLTRGAPEGQGAKVTEWKLGEDRIELTLQSGRYVRVHDAIFRLRKQLAEALGKKYKIGIRGIEVESFIIKVPADHELRMLKVPYIKSMENIEGGIQLELEVGEAEMKNRVPDRILTLLEEKIEAAQYGAKAEHWNLLWQREPMEHPFKEDPTQAMMKEGWLKRGSSRGQWIHGPQSARIFRTFEKIVLEELLEPLGYREMIFPKLVTWEVWMKSGHAKGVYPEIYYVCPPQTRDPDYWEEVADYYKVTHEVPTKLIKEKIAEPIGGMCYAQCPPFWMYVAGETLPNEEIPVKVFDRSGTSHRYESGGIHGIERVDEFHRIEIVWIGTKEEVLKCAEELHDRYMHIFNDILDIEWRKARVTPWFMAQEGLLGLAEENTVGTTDYEACLPYRGPDGEWLEFQNVSINGDKYPKGFNVKLQSGDELWSGCSGVGLERWAAVFLAQKGLDPANWPEEFRNRVGEMPKGIRFL |
| 6242 | sp|Q99576|T22D3\_HUMAN | MNTEMYQTPMEVAVYQLHNFSISFFSSLLGGDVVSVKLDNSASGASVVAIDNKIEQAMDLVKNHLMYAVREEVEILKEQIRELVEKNSQLERENTLLKTLASPEQLEKFQSCLSPEEPAPESPQVPEAPGGSAV |
| 6243 | sp|Q07998|TBXTA\_DANRE | MSASSPDQRLDHLLSAVESEFQKGSEKGDASERDIKLSLEDAELWTKFKELTNEMIVTKTGRRMFPVLRASVTGLDPNAMYSVLLDFVAADNNRWKYVNGEWVPGGKPEPQSPSCVYIHPDSPNFGAHWMKAPVSFSKVKLSNKLNGGGQIMLNSLHKYEPRIHIVKVGGIQKMISSQSFPETQFIAVTAYQNEEITALKIKHNPFAKAFLDAKERSDHKEVPDHSTDNQQSGYSQLGGWFLPSNGPMGPSSSPPQFNGAPVHSSGSYCERYSSLRNHRAAPYPSHYSHRSTTTNNYMDNSSGSLASHDSWSALQIPNSSGMGTLAHTTNTTSNTSQYPSLWSVAGTTLTPSGSASGSITGGLTSQFLRGSSMSYSGLTSSLPVSSPSSMYDPGLSEVGVGDAQFESSIARLTASWAPVAQSY |
| 6244 | sp|P26639|SYTC\_HUMAN | MFEEKASSPSGKMGGEEKPIGAGEEKQKEGGKKKNKEGSGDGGRAELNPWPEYIYTRLEMYNILKAEHDSILAEKAEKDSKPIKVTLPDGKQVDAESWKTTPYQIACGISQGLADNTVIAKVNNVVWDLDRPLEEDCTLELLKFEDEEAQAVYWHSSAHIMGEAMERVYGGCLCYGPPIENGFYYDMYLEEGGVSSNDFSSLEALCKKIIKEKQAFERLEVKKETLLAMFKYNKFKCRILNEKVNTPTTTVYRCGPLIDLCRGPHVRHTGKIKALKIHKNSSTYWEGKADMETLQRIYGISFPDPKMLKEWEKFQEEAKNRDHRKIGRDQELYFFHELSPGSCFFLPKGAYIYNALIEFIRSEYRKRGFQEVVTPNIFNSRLWMTSGHWQHYSENMFSFEVEKELFALKPMNCPGHCLMFDHRPRSWRELPLRLADFGVLHRNELSGALTGLTRVRRFQQDDAHIFCAMEQIEDEIKGCLDFLRTVYSVFGFSFKLNLSTRPEKFLGDIEVWDQAEKQLENSLNEFGEKWELNSGDGAFYGPKIDIQIKDAIGRYHQCATIQLDFQLPIRFNLTYVSHDGDDKKRPVIVHRAILGSVERMIAILTENYGGKWPFWLSPRQVMVVPVGPTCDEYAQKVRQQFHDAKFMADIDLDPGCTLNKKIRNAQLAQYNFILVVGEKEKISGTVNIRTRDNKVHGERTISETIERLQQLKEFRSKQAEEEF |
| 6245 | sp|Q8IYX1|TBC21\_HUMAN | MTTLSPENSLSARQSASFILVKRKPPIDKTEWDSFFDESGHLAKSRDFICVNILERGLHPFVRTEAWKFLTGYFSWQSSQDERLTVDSMRRKNYKALCQMYEKIQPLLENLHRNFTETRNNIARDIQKIYDKDPLGNVLIDKKRLEKILLLSYVCNTQAEYQQGFHEMMMLFQLMVEHDHETFWLFQFFLQKTEHSCVINIGVAKNLDMLSTLITFLDPVFAEHLKGKGAGAVQSLFPWFCFCFQRAFKSFDDVWRLWEVLLTGKPCRNFQVLVAYSMLQMVREQVLQESMGGDDILLACNNLIDLDADELISAACVVYAELIQKDVPQTLKDFFL |
| 6246 | sp|Q8C8S3|T150C\_MOUSE | MDGKKCSVWMFLPLVFTLFTSAGLWIVYFIAVEDDKILPLNSAARKSGAKHAPYISFAGDDPPASCVFSQVMNMAAFLALVVAVLRFIQLKPKVLNPWLNISGLAALCLASFGMTLLGNFQLTNDEEIHNVGTSLTFGFGTLTCWIQAALTLKVNIKNEGRRAGIPRVILSAVITLCVVLYFILMAQDIHMYAARVQWGLVMCFLAYFGTLAVEFRHYRYEIVCSEYQENFLSFSESLSEASEYQTDQV |
| 6247 | sp|O08710|THYG\_MOUSE | MTALVLWVSTLLSSVCLVAANIFEYQVDAQPLRPCELQREKAFLKQAEYVPQCSEDGSFQTVQCQNDGQSCWCVDSDGREVPGSRQLGRPTVCLSFCQLHKQRILLGSYINSTDALYLPQCQDSGNYAPVQCDLQRVQCWCVDTEGMEVYGTRQQGRPTRCPRSCEIRNRRLLHGVGDRSPPQCTADGEFMPVQCKFVNTTDMMIFDLIHNYNRFPDAFVTFSSFRGRFPEVSGYCYCADSQGRELAETGLELLLDEIYDTIFAGLDQASTFTQSTMYRILQRRFLAIQLVISGRFRCPTKCEVEQFAATRFGHSYIPRCHRDGHYQTVQCQTEGMCWCVDAQGREVPGTRQQGQPPSCAADQSCALERQQALSRFYFETPDYFSPQDLLSSEDRLAPVSGVRSDTSCPPRIKELFVDSGLLRSIAVEHYQRLSESRSLLREAIRAVFPSRELAGLALQFTTNPKRLQQNLFGGTFLANAAQFNLSGALGTRSTFNFSQFFQQFGLPGFLNRDRVTTLAKLLPVRLDSSSTPETLRVSEKTVAMNKRVVGNFGFKVNLQENQDALKFLVSLLELPEFLVFLQRAVSVPEDIARDLGDVMEMVFSAQACKQMPGKFFVPSCTAGGSYEDIQCYAGECWCVDSRGKELDGSRVRGGRPRCPTKCEKQRAQMQSLASAQPAGSSFFVPTCTREGYFLPVQCFNSECYCVDTEGQVIPGTQSTVGEAKQCPSVCQLQAEQAFLGVVGVLLSNSSMVPSISNVYIPQCSASGQWRHVQCDGPHEQVFEWYERWKTQNGDGQELTPAALLMKIVSYREVASRNFSLFLQSLYDAGQQRIFPVLAQYPSLQDVPQVVLEGATTPPGENIFLDPYIFWQILNGQLSQYPGPYSDFNMPLEHFNLRSCWCVDEAGQKLDGTQTKPGEIPACPGPCEEVKLRVLKFIKETEEIVSASNASSFPLGESFLVAKGIQLTSEELDLPPQFPSRDAFSEKFLRGGEYAIRLAAQSTLTFYQSLRASLGKSDGAASLLWSGPYMPQCNMIGGWEPVQCHAGTGQCWCVDGRGEFIPGSLMSRSSQMPQCPTNCELSRASGLISAWKQAGPQRNPGPGDLFIPVCLQTGEYVRKQTSGTGTWCVDPASGEGMPVNTNGSAQCPGLCDVLKSRALSRKVGLGYSPVCEALDGAFSPVQCDLAQGSCWCVLGSGEEVPGTRVVGTQPACESPQCPLPFSGSDVADGVIFCETASSSGVTTVQQCQLLCRQGLRSAFSPGPLICSLESQHWVTLPPPRACQRPQLWQTMQTQAHFQLLLPPGKMCSVDYSGLLQAFQVFILDELIARGFCQIQVKTFGTLVSSTVCDNSSIQVGCLTAERLGVNVTWKLQLEDISVGSLPDLYSIERAVTGQDLLGRFADLIQSGRFQLHLDSKTFSADTTLYFLNGDSFVTSPRTQLGCMEGFYRVPTTRQDALGCVKCPEGSFSQDGRCTPCPAGTYQEQAGSSACIPCPRGRTTITTGAFSKTHCVTDCQKNEAGLQCDQNGQYQASQKNRDSGEVFCVDSEGRKLQWLQTEAGLSESQCLMIRKFDKAPESKVIFDANSPVIVKSSVPSADSPLVQCLTDCANDEACSFLTVSTMESEVSCDFYSWTRDNFACVTSDQEQDAMGSLKATSFGSLRCQVKVRNSGKDSLAVYVKKGYESTAAGQKSFEPTGFQNVLSGLYSPVVFSASGANLTDTHTYCLLACDNDSCCDGFIITQVKGGPTICGLLSSPDILLCHINDWRDTSATQANATCAGVTYDQGSRQMTLSLGGQEFLQGLALLEGTQDSFTSFQQVYLWKDSDMGSRPESMGCERGMVPRSDFPGDMATELFSPVDITQVIVNTSHSLPSQQYWLFTHLFSAEQANLWCLSRCAQEPIFCQLADITKSSSLYFTCFLYPEAQVCDNVMESNAKNCSQILPHQPTALFRRKVVLNDRVKNFYTRLPFQKLTGISIRDKVPMSGKLISNGFFECERLCDRDPCCTGFGFLNVSQLQGGEVTCLTLNSMGIQTCNEESGATWRILDCGSEDTEVHTYPFGWYQKPAVWSDTPSFCPSAALQSLTEEKVTSDSWQTLALSSVIVDPSIKHFDVAHISTAATSNFSMAQDFCLQQCSRHQDCLVTTLQIQPGVVRCVFYPDIQNCIHSLRSHTCWLLLHEEATYIYRKSGIPLVQSDVTSTPSVRIDSFGQLQGGSQVIKVGTAWKQVYRFLGVPYAAPPLADNRFRAPEVLNWTGSWDATKPRASCWQPGTRTPTPPQINEDCLYLNVFVPENLVSNASVLVFFHNTMEMEGSGGQLTIDGSILAAVGNFIVVTANYRLGVFGFLSSGSDEVAGNWGLLDQVAALTWVQSHIGAFGGDPQRVTLAADRSGADVASIHLLISRPTRLQLFRKALLMGGSALSPAAIISPERAQQQAAALAKEVGCPTSSIQEVVSCLRQKPANILNDAQTKLLAVSGPFHYWGPVVDGQYLRELPSRRLKRPLPVKVDLLIGGSQDDGLINRAKAVKQFEESQGRTNSKTAFYQALQNSLGGEDSDARILAAAVWYYSLEHSTDDYASFSRALENATRDYFIICPMVNMASLWARRTRGNVFMYHVPESYGHGSLELLADVQYAFGLPFYSAYQGQFSTEEQSLSLKVMQYFSNFIRSGNPNYPHEFSRKAAEFATPWPDFIPGAGGESYKELSAQLPNRQGLKQADCSFWSKYIQTLKDADGAKDAQLTKSEEEDLEVGPGLEEDLSGSLEPVPKSYSK |
| 6248 | sp|Q7Z410|TMPS9\_HUMAN | MEPTVADVHLVPRTTKEVPALDAACCRAASIGVVATSLVVLTLGVLLAFLSTQGFHVDHTAELRGIRWTSSLRRETSDYHRTLTPTLEALLHFLLRPLQTLSLGLEEELLQRGIRARLREHGISLAAYGTIVSAELTGRHKGPLAERDFKSGRCPGNSFSCGNSQCVTKVNPECDDQEDCSDGSDEAHCECGLQPAWRMAGRIVGGMEASPGEFPWQASLRENKEHFCGAAIINARWLVSAAHCFNEFQDPTKWVAYVGATYLSGSEASTVRAQVVQIVKHPLYNADTADFDVAVLELTSPLPFGRHIQPVCLPAATHIFPPSKKCLISGWGYLKEDFLVKPEVLQKATVELLDQALCASLYGHSLTDRMVCAGYLDGKVDSCQGDSGGPLVCEEPSGRFFLAGIVSWGIGCAEARRPGVYARVTRLRDWILEATTKASMPLAPTMAPAPAAPSTAWPTSPESPVVSTPTKSMQALSTVPLDWVTVPKLQECGARPAMEKPTRVVGGFGAASGEVPWQVSLKEGSRHFCGATVVGDRWLLSAAHCFNHTKVEQVRAHLGTASLLGLGGSPVKIGLRRVVLHPLYNPGILDFDLAVLELASPLAFNKYIQPVCLPLAIQKFPVGRKCMISGWGNTQEGNATKPELLQKASVGIIDQKTCSVLYNFSLTDRMICAGFLEGKVDSCQGDSGGPLACEEAPGVFYLAGIVSWGIGCAQVKKPGVYTRITRLKGWILEIMSSQPLPMSPPSTTRMLATTSPRTTAGLTVPGATPSRPTPGAASRVTGQPANSTLSAVSTTARGQTPFPDAPEATTHTQLPDCGLAPAALTRIVGGSAAGRGEWPWQVSLWLRRREHRCGAVLVAERWLLSAAHCFDVYGDPKQWAAFLGTPFLSGAEGQLERVARIYKHPFYNLYTLDYDVALLELAGPVRRSRLVRPICLPEPAPRPPDGTRCVITGWGSVREGGSMARQLQKAAVRLLSEQTCRRFYPVQISSRMLCAGFPQGGVDSCSGDAGGPLACREPSGRWVLTGVTSWGYGCGRPHFPGVYTRVAAVRGWIGQHIQE |
| 6249 | sp|Q16762|THTR\_HUMAN | MVHQVLYRALVSTKWLAESIRTGKLGPGLRVLDASWYSPGTREARKEYLERHVPGASFFDIEECRDTASPYEMMLPSEAGFAEYVGRLGISNHTHVVVYDGEHLGSFYAPRVWWMFRVFGHRTVSVLNGGFRNWLKEGHPVTSEPSRPEPAVFKATLDRSLLKTYEQVLENLESKRFQLVDSRSQGRFLGTEPEPDAVGLDSGHIRGAVNMPFMDFLTEDGFEKGPEELRALFQTKKVDLSQPLIATCRKGVTACHVALAAYLCGKPDVAVYDGSWSEWFRRAPPESRVSQGKSEKA |
| 6250 | sp|P19221|THRB\_MOUSE | MSHVRGLGLPGCLALAALVSLVHSQHVFLAPQQALSLLQRVRRANSGFLEELRKGNLERECVEEQCSYEEAFEALESPQDTDVFWAKYTVCDSVRKPRETFMDCLEGRCAMDLGVNYLGTVNVTHTGIQCQLWRSRYPHKPEINSTTHPGADLKENFCRNPDSSTTGPWCYTTDPTVRREECSVPVCGQEGRTTVVMTPRSGGSKDNLSPPLGQCLTERGRLYQGNLAVTTLGSPCLPWNSLPAKTLSKYQDFDPEVKLVENFCRNPDWDEEGAWCYVAGQPGDFEYCNLNYCEEAVGEENYDVDESIAGRTTDAEFHTFFNEKTFGLGEADCGLRPLFEKKSLKDTTEKELLDSYIDGRIVEGWDAEKGIAPWQVMLFRKSPQELLCGASLISDRWVLTAAHCILYPPWDKNFTENDLLVRIGKHSRTRYERNVEKISMLEKIYVHPRYNWRENLDRDIALLKLKKPVPFSDYIHPVCLPDKQTVTSLLRAGYKGRVTGWGNLRETWTTNINEIQPSVLQVVNLPIVERPVCKASTRIRITDNMFCAGFKVNDTKRGDACEGDSGGPFVMKSPFNNRWYQMGIVSWGEGCDRKGKYGFYTHVFRLKRWIQKVIDQFG |
| 6251 | sp|Q9WYT0|THYX\_THEMA | MKIDILDKGFVELVDVMGNDLSAVRAARVSFDMGLKDEERDRHLIEYLMKHGHETPFEHIVFTFHVKAPIFVARQWFRHRIASYNELSGRYSKLSYEFYIPSPERLEGYKTTIPPERVTEKISEIVDKAYRTYLELIESGVPREVARIVLPLNLYTRFFWTVNARSLMNFLNLRADSHAQWEIQQYALAIARIFKEKCPWTFEAFLKYAYKGDILKEVQV |
| 6252 | sp|P00735|THRB\_BOVIN | MARVRGPRLPGCLALAALFSLVHSQHVFLAHQQASSLLQRARRANKGFLEEVRKGNLERECLEEPCSREEAFEALESLSATDAFWAKYTACESARNPREKLNECLEGNCAEGVGMNYRGNVSVTRSGIECQLWRSRYPHKPEINSTTHPGADLRENFCRNPDGSITGPWCYTTSPTLRREECSVPVCGQDRVTVEVIPRSGGSTTSQSPLLETCVPDRGREYRGRLAVTTSGSRCLAWSSEQAKALSKDQDFNPAVPLAENFCRNPDGDEEGAWCYVADQPGDFEYCDLNYCEEPVDGDLGDRLGEDPDPDAAIEGRTSEDHFQPFFNEKTFGAGEADCGLRPLFEKKQVQDQTEKELFESYIEGRIVEGQDAEVGLSPWQVMLFRKSPQELLCGASLISDRWVLTAAHCLLYPPWDKNFTVDDLLVRIGKHSRTRYERKVEKISMLDKIYIHPRYNWKENLDRDIALLKLKRPIELSDYIHPVCLPDKQTAAKLLHAGFKGRVTGWGNRRETWTTSVAEVQPSVLQVVNLPLVERPVCKASTRIRITDNMFCAGYKPGEGKRGDACEGDSGGPFVMKSPYNNRWYQMGIVSWGEGCDRDGKYGFYTHVFRLKKWIQKVIDRLGS |
| 6253 | sp|Q9BXR0|TGT\_HUMAN | MAGAATQASLESAPRIMRLVAECSRSRARAGELWLPHGTVATPVFMPVGTQATMKGITTEQLDALGCRICLGNTYHLGLRPGPELIQKANGLHGFMNWPHNLLTDSGGFQMVSLVSLSEVTEEGVRFRSPYDGNETLLSPEKSVQIQNALGSDIIMQLDDVVSSTVTGPRVEEAMYRSIRWLDRCIAAHQRPDKQNLFAIIQGGLDADLRATCLEEMTKRDVPGFAIGGLSGGESKSQFWRMVALSTSRLPKDKPRYLMGVGYATDLVVCVALGCDMFDCVFPTRTARFGSALVPTGNLQLRKKVFEKDFGPIDPECTCPTCQKHSRAFLHALLHSDNTAALHHLTVHNIAYQLQLMSAVRTSIVEKRFPDFVRDFMGAMYGDPTLCPTWATDALASVGITLG |
| 6254 | sp|P41338|THIL\_YEAST | MSQNVYIVSTARTPIGSFQGSLSSKTAVELGAVALKGALAKVPELDASKDFDEIIFGNVLSANLGQAPARQVALAAGLSNHIVASTVNKVCASAMKAIILGAQSIKCGNADVVVAGGCESMTNAPYYMPAARAGAKFGQTVLVDGVERDGLNDAYDGLAMGVHAEKCARDWDITREQQDNFAIESYQKSQKSQKEGKFDNEIVPVTIKGFRGKPDTQVTKDEEPARLHVEKLRSARTVFQKENGTVTAANASPINDGAAAVILVSEKVLKEKNLKPLAIIKGWGEAAHQPADFTWAPSLAVPKALKHAGIEDINSVDYFEFNEAFSVVGLVNTKILKLDPSKVNVYGGAVALGHPLGCSGARVVVTLLSILQQEGGKIGVAAICNGGGGASSIVIEKI |
| 6255 | sp|Q9LMA8|TI10A\_ARATH | MSSSMECSEFVGSRRFTGKKPSFSQTCSRLSQYLKENGSFGDLSLGMACKPDVNGTLGNSRQPTTTMSLFPCEASNMDSMVQDVKPTNLFPRQPSFSSSSSSLPKEDVLKMTQTTRSVKPESQTAPLTIFYAGQVIVFNDFSAEKAKEVINLASKGTANSLAKNQTDIRSNIATIANQVPHPRKTTTQEPIQSSPTPLTELPIARRASLHRFLEKRKDRVTSKAPYQLCDPAKASSNPQTTGNMSWLGLAAEI |
| 6256 | sp|P18102|TLL\_DROME | MQSSEGSPDMMDQKYNSVRLSPAASSRILYHVPCKVCRDHSSGKHYGIYACDGCAGFFKRSIRRSRQYVCKSQKQGLCVVDKTHRNQCRACRLRKCFEVGMNKDAVQHERGPRNSTLRRHMAMYKDAMMGAGEMPQIPAEILMNTAALTGFPGVPMPMPGLPQRAGHHPAHMAAFQPPPSAAAVLDLSVPRVPHHPVHQGHHGFFSPTAAYMNALATRALPPTPPLMAAEHIKETAAEHLFKNVNWIKSVRAFTELPMPDQLLLLEESWKEFFILAMAQYLMPMNFAQLLFVYESENANREIMGMVTREVHAFQEVLNQLCHLNIDSTEYECLRAISLFRKSPPSASSTEDLANSSILTGSGSPNSSASAESRGLLESGKVAAMHNDARSALHNYIQRTHPSQPMRFQTLLGVVQLMHKVSSFTIEELFFRKTIGDITIVRLISDMYSQRKI |
| 6257 | sp|Q9NWX6|THG1\_HUMAN | MWGACKVKVHDSLATISITLRRYLRLGATMAKSKFEYVRDFEADDTCLAHCWVVVRLDGRNFHRFAEKHNFAKPNDSRALQLMTKCAQTVMEELEDIVIAYGQSDEYSFVFKRKTNWFKRRASKFMTHVASQFASSYVFYWRDYFEDQPLLYPPGFDGRVVVYPSNQTLKDYLSWRQADCHINNLYNTVFWALIQQSGLTPVQAQGRLQGTLAADKNEILFSEFNINYNNELPMYRKGTVLIWQKVDEVMTKEIKLPTEMEGKKMAVTRTRTKPVPLHCDIIGDAFWKEHPEILDEDS |
| 6258 | sp|Q8N1K5|THMS1\_HUMAN | MALSLEEFVHSLDLRTLPRVLEIQAGIYLEGSIYEMFGNECCFSTGEVIKITGLKVKKIIAEICEQIEGCESLQPFELPMNFPGLFKIVADKTPYLTMEEITRTIHIGPSRLGHPCFYHQKDIKLENLIIKQGEQIMLNSVEEIDGEIMVSCAVARNHQTHSFNLPLSQEGEFYECEDERIYTLKEIVEWKIPKNRTRTVNLTDFSNKWDSTNPFPKDFYGTLILKPVYEIQGVMKFRKDIIRILPSLDVEVKDITDSYDANWFLQLLSTEDLFEMTSKEFPIVTEVIEAPEGNHLPQSILQPGKTIVIHKKYQASRILASEIRSNFPKRHFLIPTSYKGKFKRRPREFPTAYDLEIAKSEKEPLHVVATKAFHSPHDKLSSVSVGDQFLVHQSETTEVLCEGIKKVVNVLACEKILKKSYEAALLPLYMEGGFVEVIHDKKQYPISELCKQFRLPFNVKVSVRDLSIEEDVLAATPGLQLEEDITDSYLLISDFANPTECWEIPVGRLNMTVQLVSNFSRDAEPFLVRTLVEEITEEQYYMMRRYESSASHPPPRPPKHPSVEETKLTLLTLAEERTVDLPKSPKRHHVDITKKLHPNQAGLDSKVLIGSQNDLVDEEKERSNRGATAIAETFKNEKHQK |
| 6259 | sp|Q6ZPF3|TIAM2\_MOUSE | MGNSESQYTFQGSKNHSNTVTGAKQKPCSLKIRSVHAKDEKSLHGWTHGSSGAGYKSRSLARSCLSHFKNHQPYATRLSGPTCKVSKGTTYSKHRANTPGNDFQGNSGAFLPENGFHYVDRESEESHITSNGHLLTCYGRKESLASTPPGEDHRSPRVLIKTLGKLDGCLRVEFHNGGNPHKGTSEDPSGPVRLLRYSPTLASETCPVRETRRHSAAGSPSSQRPSPTDSRLRSSKGSSLSSESSWYDSPWGNAGEVSEVEGSFLAPSTPDPSLPSSFPPSDTKKPFNQSSSLSSLRELYKDPNLGCRSPSGTCLSSNEYISSQVSLNNRVSFASDMDVPSRVDHRDPLHYSSFTLPCRKSKALTEDAAKKDTLKARMRRFSDWTGSLSRKKRKLQEPRSMEGSEYFDSHSDGLNAEGQVPAQTSSLLWSGGSAQTLPHRSESTHAISVDPLRQNIYENFMRELEMSRSNTEHVETSTETMESSSESVSSLEQLDLLFEKEQGVVRKAGWLFFKPLVTLQKERKLELVARRKWKQYWVTLKGCTLLFYETYGKNSTEQNSAPRCALFAEDSIVQSVPEHPKKEHVFCLSNSCGDVYLFQATSQTDLENWVTAIHSACASLFAKKHGKEDTVRLLKSQTRSLLQKIDMDSKMKKMAELQLSVVSDPKNRKAIENQIRQWEQNLEKFHMDLFRMRCYLASLQGGELPNPKSLLAATSRPSKLALGRLGVLSVSSFHALVCSRDDSTLRKRTLSLTQRGKSKKGIFSSLKGLDTLARKGREKRASITQMFDSSHSHGFLGTQLPQKSTNSNKAHDLHLYGSAVDSALRDSMWEVQTYVHFQDNEGVTVTIKPEHRVEDVLALVCKMRQLEPTHYGLQLRKVVDKSVEWCVPALYEYMQEQVYDEIEVFPLSVYDVQLTKTGDMTDFGFAVTVQVDEHQHLNRIFISDVLPDSLAYGGGLRKGNEITSLNGEPVSDLDIQQMEALFSEKSVGLTLVARPVTTRRTLCASWSDSDLFSRDQKSLPPSPNQSQLLEEFLDNFRKTATSDFSNVPEITTGLKRSQTEGTLDQVPHREKMEQTFLSADQIAELCRDLNNTHTNSMEAPTESHDPPPRPLARHLSDADRLRKVIQELVDTEKSYVKDLSCLFELYLEPLQNETFLTQDEMESLFGSLPEMLEFQKVFLETLEDAISASSDFSVLETPSQFRKLLFSLGGSFLYYADHFKLYSGFCANHIKVQRVLERAKTDKAFKAFLDARNPTKQHSSTLESYLIKPVQRVLKYPLLLKELVSLTDHESEEHYHLTEALKAMEKVASHINEMQKIYEDYGMVFDQLVAEQSGTEKEVTELSMGELLMHSTVSWLNPFLSLGKARKDIELTVFVFKRAVILVYKENCKLKKKLPSNSRPAHNSADLDPFKFRWLIPISALQVRLGNTAGTENNSTWELIHTKSEIEGRPETIFQLCCSDSENKTSIVKVIRSILRENFRRHIKCELPLEKTCKDRLVPLKNRVPVSAKLASSRSLKGLRTSSSSEWPSEPSKGNSLDSDECSLSSGTQSSGCPVAESRRDSKSTELEKDAQEGLAEFPDGLIKESDILSDEDEDFHHPLKQGSPTKDIEIQFQRLKISEESDVHPVGQQPLTESGEQPKLVRGHFCPIKRKANSTKRGRGTLLKAQTRHQSLDSHPETASIDLNLVLEREFSVQSLTSVVNEEGFYETQSHGKS |
| 6260 | sp|Q61471|TOB1\_MOUSE | MQLEIQVALNFIISYLYNKLPRRRVNIFGEELERLLKKKYEGHWYPEKPYKGSGFRCIHVGEKVDPVIEQASKESGLDIDDVRGNLPQDLSVWIDPFEVSYQIGEKGPVKVLYVDDSSETGCELDKEIKNSFNPEAQVFMPISDPASSVSSSPSPPFGHSAAVSPTFMPRSTQPLTFTTATFAATKFGSTKMKNSGRSSKVARTSPINLGLTVNVNDLLKQKAISSSVHSLYGLGLGSQQQPQPQPQQQQQQQPSSSQPPPPLPQQQQQQPQQQQQQQQQTSALSPNAKEFIFPNMQGQGSSTNGMFPGDSPLNLSPLQYSNAFDVFAAYGGLNEKSFVDGLNFSLNNMQYSNQQFQPVMAN |
| 6261 | sp|Q9Z1Y6|TGFB1\_CAVPO | MPPSRLRLLPLLLPLLWLLVLAPGRPASGLSTCKTIDMELVKRKRIEAIRGQILSKLRLASPPSQGDVPPGPLPEAVLALYNSTRDRVAGESAEPEPEPEPDYYAKEVTRVLMVDNSHNIYKSIETVAHSIYMFFNTSELREAVPDPLLLSRAELRMQRLKLNVEQHVELYQKYSNNSWRYLSNQLLTPSDTPEWLSFDVTGVVRQWLSQGEELEGFRFSAHCSCDSKDNTLRVEINGIGPKRRGDLAAIHGMNRPFLLLMATPLERAQHLHSSRHRRGLDTNYCFSSTEKNCCVRQLYIDFRKDLGWKWIHEPKGYHANFCLGPCPYIWSLDTQYSKVLALYNQHNPGASAAPCCVPQALEPLPIVYYVGRKAKVEQLSNMIVRSCKCS |
| 6262 | sp|P48023|TNFL6\_HUMAN | MQQPFNYPYPQIYWVDSSASSPWAPPGTVLPCPTSVPRRPGQRRPPPPPPPPPLPPPPPPPPLPPLPLPPLKKRGNHSTGLCLLVMFFMVLVALVGLGLGMFQLFHLQKELAELRESTSQMHTASSLEKQIGHPSPPPEKKELRKVAHLTGKSNSRSMPLEWEDTYGIVLLSGVKYKKGGLVINETGLYFVYSKVYFRGQSCNNLPLSHKVYMRNSKYPQDLVMMEGKMMSYCTTGQMWARSSYLGAVFNLTSADHLYVNVSELSLVNFEESQTFFGLYKL |
| 6263 | sp|Q96A57|TM230\_HUMAN | MMPSRTNLATGIPSSKVKYSRLSSTDDGYIDLQFKKTPPKIPYKAIALATVLFLIGAFLIIIGSLLLSGYISKGGADRAVPVLIIGILVFLPGFYHLRIAYYASKGYRGYSYDDIPDFDD |
| 6264 | sp|Q06643|TNFC\_HUMAN | MGALGLEGRGGRLQGRGSLLLAVAGATSLVTLLLAVPITVLAVLALVPQDQGGLVTETADPGAQAQQGLGFQKLPEEEPETDLSPGLPAAHLIGAPLKGQGLGWETTKEQAFLTSGTQFSDAEGLALPQDGLYYLYCLVGYRGRAPPGGGDPQGRSVTLRSSLYRAGGAYGPGTPELLLEGAETVTPVLDPARRQGYGPLWYTSVGFGGLVQLRRGERVYVNISHPDMVDFARGKTFFGAVMVG |
| 6265 | sp|P09225|TNFB\_MOUSE | MTLLGRLHLLRVLGTPPVFLLGLLLALPLGAQGLSGVRFSAARTAHPLPQKHLTHGILKPAAHLVGYPSKQNSLLWRASTDRAFLRHGFSLSNNSLLIPTSGLYFVYSQVVFSGESCSPRAIPTPIYLAHEVQLFSSQYPFHVPLLSAQKSVYPGLQGPWVRSMYQGAVFLLSKGDQLSTHTDGISHLHFSPSSVFFGAFAL |
| 6266 | sp|P48787|TNNI3\_MOUSE | MADESSDAAGEPQPAPAPVRRRSSANYRAYATEPHAKKKSKISASRKLQLKTLMLQIAKQEMEREAEERRGEKGRVLRTRCQPLELDGLGFEELQDLCRQLHARVDKVDEERYDVEAKVTKNITEIADLTQKIYDLRGKFKRPTLRRVRISADAMMQALLGTRAKESLDLRAHLKQVKKEDIEKENREVGDWRKNIDALSGMEGRKKKFEG |
| 6267 | sp|Q9CR75|TNR12\_MOUSE | MASAWPRSLPQILVLGFGLVLMRAAAGEQAPGTSPCSSGSSWSADLDKCMDCASCPARPHSDFCLGCAAAPPAHFRLLWPILGGALSLVLVLALVSSFLVWRRCRRREKFTTPIEETGGEGCPGVALIQ |
| 6268 | sp|B3Y618|TLR2\_MACMU | MPHTLWMVWVLGVIISLSKEESSNQASLSCDHNGICKGSSGSLNSIPSVLTEAVKCLDLSNNRITYISNSDLQRYVNLQALVLTSNGINTIEEDSFSSLGRLEHLDLSYNYLSNLSSSWFKPLSSLKFLNLLGNPYKTLGETSLFSHLTKLRILRVGNMDTFTKIQRKDFAGLTFLEELEIDASDLQSYEPKSLKSIQNVSHLILHMKQHILLLEIFVDLTSSVECLELRDTDLNTFHFSELSTGETNSLIKKFTFRNVKITDESLFQVMKLLSQISGLLELEFDDCTLNGVGDFRGSDNDRVIDPGKVETLTIRRLHIPQFYSFNDLSTLYPLTERVKRITVENSKVFLVPCLLSRHLKSLEYLDLSENLMVEEYLKNSACEDAWPSLQTLILRQNHLASLGKIGETLLTLKNLTNLDISKNTFHYMPETCQWPEKMKYLNLSSTRIHSVTGCIPKTLEILDISNNNLNLFSLNLPQLKELYISRNKLMTLPDASLLPMLLVLKISRNTITTFSKEQLDSFHTLKTLEAGGNNFICSCEFLSFTQEQQALAKVLVDWPANYLCDSPSHVRGQRVQDVRLSVSECHRAALVSGMCCALFLLILLMGVLCHRFHGLWYMKMMWAWLQAKRKPRKAPNRDICYDAFVSYSERDAYWVENLMVQELENFNPPFKLCLHKRDFIPGKWIIDNIIDSIEKSHKTVFVLSENFVKSEWCKYELDFSHFRLFDENNDAAILVLLEPIEKKAIPQRFCKLRKIMNTKTYLEWPMDEARQEGFWVNLRAAIKS |
| 6269 | sp|O34513|TMCAL\_BACSU | MKAVGLVVEYNPFHNGHLYHAQTAKLQTGCDTAVAVMSGHFLQRGEPAVVSKWARTKMALQSGVDLVIELPYLYAVQKADIFARGSVSILNELECEALFFGSENGDIKPFLETAQLIDEHKHILNDRIKEELKKGASYPAAAAIAFSSILHTESALDLSKPNNILGYQYVTSILTGGYPMKPYTTARISSDYHDADLPEGENHIASATSIRKAMIGQNLEACLRFLPAASARELAAYRKSFGLWHTPESYFSYLKYSLSTVTARELQQVYEVEEGLEHRIIRSIRKSSSYQEFMELLKTKRYTWTRLQRMNTHILTRTKKQDMQKLLDNDKAPYIRLLGMTKKGQAYLSEKKKALSVPLVSKLSSFSHPALDLDVKASRIYSLPIEEPLRTEFDLQEYGHAPIRYDEDEQHFLNV |
| 6270 | sp|Q9EPW9|TLR6\_MOUSE | MSQDRKPIVGSFHFVCALALIVGSMTPFSNELESMVDYSNRNLTHVPKDLPPRTKALSLSQNSISELRMPDISFLSELRVLRLSHNRIRSLDFHVFLFNQDLEYLDVSHNRLQNISCCPMASLRHLDLSFNDFDVLPVCKEFGNLTKLTFLGLSAAKFRQLDLLPVAHLHLSCILLDLVSYHIKGGETESLQIPNTTVLHLVFHPNSLFSVQVNMSVNALGHLQLSNIKLNDENCQRLMTFLSELTRGPTLLNVTLQHIETTWKCSVKLFQFFWPRPVEYLNIYNLTITERIDREEFTYSETALKSLMIEHVKNQVFLFSKEALYSVFAEMNIKMLSISDTPFIHMVCPPSPSSFTFLNFTQNVFTDSVFQGCSTLKRLQTLILQRNGLKNFFKVALMTKNMSSLETLDVSLNSLNSHAYDRTCAWAESILVLNLSSNMLTGSVFRCLPPKVKVLDLHNNRIMSIPKDVTHLQALQELNVASNSLTDLPGCGAFSSLSVLVIDHNSVSHPSEDFFQSCQNIRSLTAGNNPFQCTCELRDFVKNIGWVAREVVEGWPDSYRCDYPESSKGTALRDFHMSPLSCDTVLLTVTIGATMLVLAVTGAFLCLYFDLPWYVRMLCQWTQTRHRARHIPLEELQRNLQFHAFVSYSEHDSAWVKNELLPNLEKDDIRVCLHERNFVPGKSIVENIINFIEKSYKAIFVLSPHFIQSEWCHYELYFAHHNLFHEGSDNLILILLEPILQNNIPSRYHKLRALMAQRTYLEWPTEKGKRGLFWANLRASFIMKLALVNEDDVKT |
| 6271 | sp|P9WG25|TKT\_MYCTU | MTTLEEISALTRPRHPDYWTEIDSAAVDTIRVLAADAVQKVGNGHPGTAMSLAPLAYTLFQRTMRHDPSDTHWLGRDRFVLSAGHSSLTLYIQLYLGGFGLELSDIESLRTWGSKTPGHPEFRHTPGVEITTGPLGQGLASAVGMAMASRYERGLFDPDAEPGASPFDHYIYVIASDGDIEEGVTSEASSLAAVQQLGNLIVFYDRNQISIEDDTNIALCEDTAARYRAYGWHVQEVEGGENVVGIEEAIANAQAVTDRPSFIALRTVIGYPAPNLMDTGKAHGAALGDDEVAAVKKIVGFDPDKTFQVREDVLTHTRGLVARGKQAHERWQLEFDAWARREPERKALLDRLLAQKLPDGWDADLPHWEPGSKALATRAASGAVLSALGPKLPELWGGSADLAGSNNTTIKGADSFGPPSISTKEYTAHWYGRTLHFGVREHAMGAILSGIVLHGPTRAYGGTFLQFSDYMRPAVRLAALMDIDTIYVWTHDSIGLGEDGPTHQPIEHLSALRAIPRLSVVRPADANETAYAWRTILARRNGSGPVGLILTRQGVPVLDGTDAEGVARGGYVLSDAGGLQPGEEPDVILIATGSEVQLAVAAQTLLADNDILARVVSMPCLEWFEAQPYEYRDAVLPPTVSARVAVEAGVAQCWHQLVGDTGEIVSIEHYGESADHKTLFREYGFTAEAVAAAAERALDN |
| 6272 | sp|Q4JB16|TRMJ\_SULAC | MTIRLVIVEPEGAYNLGFIARLVKNFLIDEFYVVNPKCDINEAIKFSAKGSEVIEKMMKITNNFDDAIRDVDLKIATSSIADIKGDLLRKSIRPIDLERLIKDKKVAFIFGRESVGLTREEIAKSDFLLFIPANPEYPVLNLSHAVGIVLYELWRNRDNKVPTVSSEPIKLIDDYSKKITDILVNKEATKSMYLVLKRVLIKGIEDNEEAMTIVRILRKIYVRLAKKENESDKLL |
| 6273 | sp|Q9HGQ2|TRM4A\_SCHPO | MGRKHYSSKKNRSKKGEFVNWDLIERKNENFEKYYRLQKLVTEDDFILLKQKLTEQLPTTFRITASIPHATQVRDYFIEHYYPLIENARTEDAKIPLPVSLPWYPDGMAFMLDISKEVIRKSPHLKALQEFLVLETEAGDINRQESVSMVPPLLLNVESHHKVLDMCAAPGSKTAQLLEALHKPTKKEDITTLLPSGIVIANDSDNKRAHMLVHQIKRLNSPNVLIVNHDASFLPNFHLSSPDGKKFLKFDRILADVPCSGDGTFRKNIALWNEWSLKTALGLHATQIKILMRGLQLLEKGGRLVYSTCSLNPIENEAVVSAVLNATRGSVRLVDVSSELPQLKRSQGVDNWVVCDSDLNIYPSFDTLPKELYEKMPPTLWPLPKKELAELNIQNCLRIYPHFQNTGGFFVAVLEKYENLTSSMKTAVDDNKVFLREQKLPSEQASKKRKQDTQETSSDSKLAEVKPKGKNGGNRFHELDPFVYIKEDDQALEKIYKKFGIDEAIIKKNQFFVRNVNGVPTKAIYISNDLFRNVIENNRNRVKFVHGGLKIFVRQDFGSLSREIAEKNGTCVFRVQSDGANLASHFIAESCLFHTTLSDLFILLDHEAVTIDDFPEDSLFRKEYNHLDLGSTLLHVDLAKEESVIKKQVYIPLWKSVRICNVLLSNSEKRTLKLQIEGPQSSIHKHNT |
| 6274 | sp|Q569Z6|TR150\_MOUSE | MSKTNKSKSGSRSSRSRSASRSRSRSFSKSRSRSRSVSRSRKRRLSSRSRSRSYSPAHNRERNHPRVYQNRDFRGHNRGYRRPYYFRGRNRGFYPWGQYNRGGYGNYRSNWQNYRQAYSPRRGRSRSRSPKRRSPSPRSRSHSRNSDKSSSDRSRRSSSSRSSSNHSRVESSKRKSTKEKKSSSKDSRPSQAAGDNQGDEAKEQTFSGGTSQDIKGSESSKPWPDATTYGAGSASRASVSDLSPRERSPALKSPLQSVVVRRRSPRPSPVPKPSPPLSNASQMGSSMSGGAGYQSGAHQGQFDHGSGSLSPSKKSPVGKSPPATGSAYGSSQKEESAASGGAAYSKRYLEEQKTENGKDKEQKQTNADKEKLKEKGGFSDADVKMKSDPFAPKTDSEKPFRGSQSPKRYKLRDDFEKKMADFHKEELDEHDKDKSKGRKEPEFDDEPKFMSKVIAGASKNQEEEKSGKWESLHTGKEKQRKAEEMEDEPFTERSRKEERGGSKRSESGHRGFVPEKNFRVTAYKAVQEKSSSPPPRKTSESRDKLGSKGDFSSGKSSFSITREAQVNVRMDSFDEDLARPSGLLAQERKLCRDLVHSNKKEQEFRSIFQHIQSAQSQRSPSELFAQHIVTIVHHVKEHHFGSSGMTLHERFTKYLKRGNEQEAAKNKKSPEIHRRIDISPSTFRKHGLTHEELKSPREPGYKAEGKYKDDPVDLRLDIERRKKHKERDLKRGKSRESVDSRDSSHSRERSTEKTEKTHKGSKKQKKHRRARDRSRSSSSSSQSSHSYKAEEYPEEAEEREESTSGFDKSRLGTKDFVGPNERGGRARGTFQFRARGRGWGRGNYSGNNNNNSNNDFQKRSREEEWDPEYTPKSKKYYLHDDREGEGSDKWMGRGRGRGAFPRGRGRFMFRKSSTSPKWAHDKFSGEEGEIEDDESGTENREEKDSLQPSAE |
| 6275 | sp|Q9UBN6|TR10D\_HUMAN | MGLWGQSVPTASSARAGRYPGARTASGTRPWLLDPKILKFVVFIVAVLLPVRVDSATIPRQDEVPQQTVAPQQQRRSLKEEECPAGSHRSEYTGACNPCTEGVDYTIASNNLPSCLLCTVCKSGQTNKSSCTTTRDTVCQCEKGSFQDKNSPEMCRTCRTGCPRGMVKVSNCTPRSDIKCKNESAASSTGKTPAAEETVTTILGMLASPYHYLIIIVVLVIILAVVVVGFSCRKKFISYLKGICSGGGGGPERVHRVLFRRRSCPSRVPGAEDNARNETLSNRYLQPTQVSEQEIQGQELAELTGVTVESPEEPQRLLEQAEAEGCQRRRLLVPVNDADSADISTLLDASATLEEGHAKETIQDQLVGSEKLFYEEDEAGSATSCL |
| 6276 | sp|P07951|TPM2\_HUMAN | MDAIKKKMQMLKLDKENAIDRAEQAEADKKQAEDRCKQLEEEQQALQKKLKGTEDEVEKYSESVKEAQEKLEQAEKKATDAEADVASLNRRIQLVEEELDRAQERLATALQKLEEAEKAADESERGMKVIENRAMKDEEKMELQEMQLKEAKHIAEDSDRKYEEVARKLVILEGELERSEERAEVAESKCGDLEEELKIVTNNLKSLEAQADKYSTKEDKYEEEIKLLEEKLKEAETRAEFAERSVAKLEKTIDDLEDEVYAQKMKYKAISEELDNALNDITSL |
| 6277 | sp|P11387|TOP1\_HUMAN | MSGDHLHNDSQIEADFRLNDSHKHKDKHKDREHRHKEHKKEKDREKSKHSNSEHKDSEKKHKEKEKTKHKDGSSEKHKDKHKDRDKEKRKEEKVRASGDAKIKKEKENGFSSPPQIKDEPEDDGYFVPPKEDIKPLKRPRDEDDADYKPKKIKTEDTKKEKKRKLEEEEDGKLKKPKNKDKDKKVPEPDNKKKKPKKEEEQKWKWWEEERYPEGIKWKFLEHKGPVFAPPYEPLPENVKFYYDGKVMKLSPKAEEVATFFAKMLDHEYTTKEIFRKNFFKDWRKEMTNEEKNIITNLSKCDFTQMSQYFKAQTEARKQMSKEEKLKIKEENEKLLKEYGFCIMDNHKERIANFKIEPPGLFRGRGNHPKMGMLKRRIMPEDIIINCSKDAKVPSPPPGHKWKEVRHDNKVTWLVSWTENIQGSIKYIMLNPSSRIKGEKDWQKYETARRLKKCVDKIRNQYREDWKSKEMKVRQRAVALYFIDKLALRAGNEKEEGETADTVGCCSLRVEHINLHPELDGQEYVVEFDFLGKDSIRYYNKVPVEKRVFKNLQLFMENKQPEDDLFDRLNTGILNKHLQDLMEGLTAKVFRTYNASITLQQQLKELTAPDENIPAKILSYNRANRAVAILCNHQRAPPKTFEKSMMNLQTKIDAKKEQLADARRDLKSAKADAKVMKDAKTKKVVESKKKAVQRLEEQLMKLEVQATDREENKQIALGTSKLNYLDPRITVAWCKKWGVPIEKIYNKTQREKFAWAIDMADEDYEF |
| 6278 | sp|Q29VN2|TPS2\_MAIZE | MYSLPGATMSAAPASIISSSSFVEPLLLAAASPAAAAAAANSHHQVRQRGHLVRTLAASSSSNTLLRSDFDLQEGLTTDVKRMLRQRQKKSGGGREMLVTIDNLKRLCIDHYFEEEIEGAMATGACTRLLHSDDLFDATLAFRLLREAGHDVSAKDDVLRRFIDGASGDFKLSLSNDVRGLLSLHDMSHLDVGGEAALLHRAKEFSSRHLASAVRYLDDPSLAEYVRQSLDHPYHLSLTQYKARHHLRYLQSLPSRDAAVERLAVAEFQLNKSLHQGEMREIKRWWMDLGLAEEIPVVRDQVMKWYMWSMAALQGSSFSRYRVEITKIISLVYVVDDIFDLVGTLEELSAFTEAVKMWDTVAADSLPSCMRSCYKALHTVTNEIAEIAQKEHGSNHVNRLRKAWAVLFDGFMVEARWLATDQVPTAEDYLRNGVITSGVPLTFMHIFSMLGYDDPSTEEEEEAIIDHMPSIISCPAKILRLWDDMGSAEDEAQEGFDGSYRDFYLMENPSRSPGEAEAHMRGLIAREWEVLNRECFCRRTFPSNLVQVCLNTARMVSVMYSYNKEQRLPVLEDYAAMMLVL |
| 6279 | sp|Q11094|TWIST\_CAEEL | MVARRKGERVVRKNEVENVQQRACANRRERQRTKELNDAFTLLRKLIPSMPSDKMSKIHTLRIATDYISFLDEMQKNGCKLYGHSIFDEKRGYNLQSAFNMWRGNNGYTPIAGPSQLPPLQSAHIPPPAPSSIPPHCLMPQPWYQTCPPPKQEFHELCPISTPNPNSNPNQLTPIHWQ |
| 6280 | sp|P11388|TOP2A\_HUMAN | MEVSPLQPVNENMQVNKIKKNEDAKKRLSVERIYQKKTQLEHILLRPDTYIGSVELVTQQMWVYDEDVGINYREVTFVPGLYKIFDEILVNAADNKQRDPKMSCIRVTIDPENNLISIWNNGKGIPVVEHKVEKMYVPALIFGQLLTSSNYDDDEKKVTGGRNGYGAKLCNIFSTKFTVETASREYKKMFKQTWMDNMGRAGEMELKPFNGEDYTCITFQPDLSKFKMQSLDKDIVALMVRRAYDIAGSTKDVKVFLNGNKLPVKGFRSYVDMYLKDKLDETGNSLKVIHEQVNHRWEVCLTMSEKGFQQISFVNSIATSKGGRHVDYVADQIVTKLVDVVKKKNKGGVAVKAHQVKNHMWIFVNALIENPTFDSQTKENMTLQPKSFGSTCQLSEKFIKAAIGCGIVESILNWVKFKAQVQLNKKCSAVKHNRIKGIPKLDDANDAGGRNSTECTLILTEGDSAKTLAVSGLGVVGRDKYGVFPLRGKILNVREASHKQIMENAEINNIIKIVGLQYKKNYEDEDSLKTLRYGKIMIMTDQDQDGSHIKGLLINFIHHNWPSLLRHRFLEEFITPIVKVSKNKQEMAFYSLPEFEEWKSSTPNHKKWKVKYYKGLGTSTSKEAKEYFADMKRHRIQFKYSGPEDDAAISLAFSKKQIDDRKEWLTNFMEDRRQRKLLGLPEDYLYGQTTTYLTYNDFINKELILFSNSDNERSIPSMVDGLKPGQRKVLFTCFKRNDKREVKVAQLAGSVAEMSSYHHGEMSLMMTIINLAQNFVGSNNLNLLQPIGQFGTRLHGGKDSASPRYIFTMLSSLARLLFPPKDDHTLKFLYDDNQRVEPEWYIPIIPMVLINGAEGIGTGWSCKIPNFDVREIVNNIRRLMDGEEPLPMLPSYKNFKGTIEELAPNQYVISGEVAILNSTTIEISELPVRTWTQTYKEQVLEPMLNGTEKTPPLITDYREYHTDTTVKFVVKMTEEKLAEAERVGLHKVFKLQTSLTCNSMVLFDHVGCLKKYDTVLDILRDFFELRLKYYGLRKEWLLGMLGAESAKLNNQARFILEKIDGKIIIENKPKKELIKVLIQRGYDSDPVKAWKEAQQKVPDEEENEESDNEKETEKSDSVTDSGPTFNYLLDMPLWYLTKEKKDELCRLRNEKEQELDTLKRKSPSDLWKEDLATFIEELEAVEAKEKQDEQVGLPGKGGKAKGKKTQMAEVLPSPRGQRVIPRITIEMKAEAEKKNKKKIKNENTEGSPQEDGVELEGLKQRLEKKQKREPGTKTKKQTTLAFKPIKKGKKRNPWSDSESDRSSDESNFDVPPRETEPRRAATKTKFTMDLDSDEDFSDFDEKTDDEDFVPSDASPPKTKTSPKLSNKELKPQKSVVSDLEADDVKGSVPLSSSPPATHFPDETEITNPVPKKNVTVKKTAAKSQSSTSTTGAKKRAAPKGTKRDPALNSGVSQKPDPAKTKNRRKRKPSTSDDSDSNFEKIVSKAVTSKKSKGESDDFHMDFDSAVAPRAKSVRAKKPIKYLEESDEDDLF |
| 6281 | sp|Q967D7|TUTL\_DROME | MGVCADLGSHRWCRALSTQHNTEKSKEQQQQSQPLEIPEQRASKCRGDIDRTTTTTIPASKTLTASPAKTAAFTVKTTRRRRSRRRAEGSSICVPIRRGQGSTPTPTIQVLQFVLVSLLALLAKNAQAHNIPEDAVHITAILGEGVIFNCHVEFPNDHPVPYVLQWDKKVSETGSDLPIYIWYESYPEHIEEGYKGRVSRVSQDSPFGSASLNLTNIRESDQGWYECKVVFLNRDPKQHKNGTWFHLDVHAPPRFSVTPEDIIYVNLGDSIILNCQADGTPTPEILWYKDANPVDPSPTVGIFNDGTELRISTIRHEDIGEYTCIARNGEGQVSHTARVIIAGGAVIMVPPTNQTKLEGEKVIFSCEAKAMPGNVTVRWYREGSPVREVAALETRVTIRKDGSLIINPIKPDDSGQYLCEVTNGIGDPQSASAYLSVEYPAKVTFTPTVQYLPFRLAGVVQCYIKSSPQLQYVTWTKDKRLLEPYQMKDIVVMANGSLLFTRVNEEHQGQYACTPYNAQGTAGASGVMDVLVRKPPAFTVEPETLYQRKVGDSVEMHCDALEAEGTERPTIKWQRQEGEQLTESQRNRIKISGGNITIENLRREDFGYYQCVVSNEVATLMAVTQLVIEGTQPHAPYNITGKATESSITLQWLPGYSGGSEYKQDYTIWFREAGVNDWQTISVTPSGSTQVTINGLASGTTYEFQVVGRNVLGDGMMSKVMTVRTLEDAPAAPRNVKAATQPPDSFFQLMPDEAGPKPGPPRNVSVTEVSNGFLITWQSPLERAHIVKFYTIKYRTDAQWKTLNRGQIRPEETQYLVKNLVGGRTYYFRVLANSEKSYESSDEVKFPVPARVKHKAITAGVVGGILFFIVAIILSVCAVKICNKRKRRKQEKEFNMVACRITDARNIAANNHHLHNRSTGSISSGQVPLKNNTEHYRDYESVFIVPGHPVIIKIVQTNPNIKSNRHSHCHLHWIWPPDRCTNCHSIYSSPNLEDGDEDDGGGGRRRSVSRIQRSLDGRFVLDVEGVSKLGYSQQTLESGNVDVVDGGLFERRNSNVSQKSSSDDGGFLSRRNFITARASWRRPLVASSSQLSLQSAADSARGFLQGLLKIGAKQSAVPPNSQSYFDEAVSGARYQNVLRPYTSSNNLYGNADRSRPLHINTISGSLSQQQQLYTPSRISRIFSSSPQQLQPHHQQLLLSSGGSGAYPTHFSDLSTVYPPNSAERSSHNLSSRYRYYSQELPSLRTIQEETRRQQQQKQHPLEDHFVPLQLPSPPSWRSYYQSQASYRPRTRWYPRHHSRLFSNRQQQHEMLSPLPQLNLNLRNSMNPGGLEASPESRSSSSGFGSKNTSNHPGSTSEWRLLPPYRAPPSPPKHSGYFGGQQAQGQTPHGSYSYPRATTPPYTMAHWLEMISRLNAATDSNLPKAPCPVDVGSVDGHYEFDPATPTPSASSMLREDLNLHIDTHPYHHHTLGPLSGSLLHSHAPYGGGARKQRSLPAHLPRYDNVEVRLQAMREEFYAYRKRQAMQQMESVC |
| 6282 | sp|K4CWS6|U75C1\_SOLLC | MVQPHVLLVTFPAQGHINPSLQFAKRLIEMGIEVTFTTSVFAHRRMAKIAASTAPKGLNLAAFSDGFDDGFKSNVDDSKRYMSEIRSRGSQTLRDVILKSSDEGRPVTSLVYTLLLPWAAEVARELHIPSALLWIQPATVLDIYYYYFNGYEDEMKCSSSNDPNWSIQLPRLPLLKSQDLPSFLVSSSSKDDKYSFALPTFKEQLDTLDGEENPKVLVNTFDALELEPLKAIEKYNLIGIGPLIPSSFLGGKDSLESSFGGDLFQKSNDDYMEWLNTKPKSSIVYISFGSLLNLSRNQKEEIAKGLIEIQRPFLWVIRDQEEEKEEEKLSCMMELEKQGKIVPWCSQLEVLTHPSLGCFVSHCGWNSTLESLSSGVPVVAFPHWTDQGTNAKLIEDVWKTGVRMRVNEDGVVESDEIKRCIEIVMDGGEKGEEMRKNAQKWKELARAAVKEGGSSEVNLKAFVLQVSKSC |
| 6283 | sp|B2RX14|TUT4\_MOUSE | MEEPKTSKNENHEPKKNIICEESKAVKIISNQTLKPRNDKSEIGTSSLNRNSSKKTKQNDICIEKTEAKSCKVNAASVPGPKDLGLVHRDQSHCKMKKLPNSPMKAQKGSSQTKLEKTPSLQTKAEKVPKSPNLPVKAEKAPCTTAEATTEKALNSQRKEENTPTSQMKLQKTPRSPLEPENVPSLLLKENVKQTESQQTGKKLTSSFVSMDKRKSEALQGEKSALENSSLSQKQQTQTDNIADSDDSASGIEDTADDLSKMKSEESNKENSSEMDYLENATVIDESALTPEQRLGLKQAEERLERDHIFRLEKRSPEYTNCRYLCKLCLIHIENIQGAHKHIKEKRHKKNILEKQEESELRSLPSPSSAHLAALSVAVVELAKEQGITDDDLRIRQDIVEEMSKVIMTFLPECSLRLYGSSLTKFALKSSDVNIDIKFPPKMNHPDLLIQVLGILKKSALYIDVESDFHAKVPVVVCKDRKSALLCRVSAGNDMACLTTDLLAALGKVEPVFTPLVLAFRYWAKLCYIDSQTDGGIPSYCFALMVMFFLQQRKPPLLPCLLGSWIEGFDPKRMDDFQLKGIVEEKFVKWEYNSSSATEKNLIADENKAKADEPKDDTKKTETDNQSNAAKAKHGKSPLTLEAPNQVPLGQLWLELLKFYTLDFALEEYVICVRIQDILTRENKNWPKRRIAIEDPFSVKRNVARSLNSQLVYEYVVERFRAAYRYFACPQKKGGNKSTMDPKKKEKGKLSSKKPVKSDCSATNCCILGESAEKIHMERGQPAKHDETEFTSQRCIVDNDSLLVNELGLANHGQDSSSLSTASGGSDLKQKSAEKQGDLTPSETSLKKELSQCICIGTPDGAESAGTDCRSNLEMDSSHQIVCNNVSATSCNCKATEVTSDLVDEDNLPSQELYYVFDKFILTSGKPPTIVCSICKKDGHSKNDCPEDFRKIDLKPLPPMTNRFREILDLVCKRCFDELSPPCSEQHNREQILIGLEKFIQKEYDEKARLCLFGSSKNGFGFRDSDLDICMTLEGHENAEKLNCKEIIENLAKILKRHPGLRNILPITTAKVPIVKFEHRRSGLEGDISLYNTLAQHNTRMLATYAAIDPRVQYLGYTMKVFAKRCDIGDASRGSLSSYAYILMVLYFLQQRKPPVIPVLQEIFDGKQIPQRMVDGWNAFFFDKTEELKKRLPSLGKNTESLGELWLGLLRFYTEEFDFKEYVISIRQKKLLTTFEKQWTSKCIAIEDPFDLNHNLGAGVSRKMTNFIMKAFINGRKLFGTPFYPLIGREAEYFFDSRVLTDGELAPNDRCCRVCGKIGHYMKDCPKRKRLKKKDSEEEKEGNEEEKDSRDLLDSRDLRCFICGDAGHVRRECPEVKMARQRNSSVAAAQLVRNLVNAQQVAGSAQQQSDQSIRTRQSSECSDSPSYSPQPQPFPQNSPQPSALPPPPSQPGSQPKLGPPQQGGQPPHQVQMPLYNFPQSPPAHYSPMHSMGLLPMHPLQIPAPSWPIHGPMLHSAPGSTPSNIGLNDPSIIFAQPAARPMAIPSPSHDGHWPRTVAPNSLVNNGAVGNSEPRFRGLNPPIPWEHAPRHFPLVPASWPYGLHQNFMHQGNPRFQPKPFYAQADRCATRRCRERCPHPPRGNVSE |
| 6284 | sp|Q8BGJ9|U2AF4\_MOUSE | MAEYLASIFGTEKDKVNCSFYFKIGACRHGDRCSRLHNKPTFSQTIVLLNLYRNPQNTAQTADGSHCHVSDVEVQEHYDNFFEEVFTELQEKYGEIEEMNVCDNLGDHLVGNVYVKFRREEDAERAVAELNNRWFNGQAVHAELSPVTDFRESCCRQYEMGECTRGGFCNFMHLRPISRNLRRQLYGRGPRHRSPPRSHTGHRPRERNRRRSPDHRHGRF |
| 6285 | sp|P42282|TTKA\_DROME | MKMASQRFCLRWNNHQSNLLSVFDQLLHAETFTDVTLAVEGQHLKAHKMVLSACSPYFNTLFVSHPEKHPIVILKDVPYSDMKSLLDFMYRGEVSVDQERLTAFLRVAESLRIKGLTEVNDDKPSPAAAAAGAGATGSESTATTPQLQRIQPYLVPQRNRSQAGGLLASAANAGNTPTLPVQPSLLSSALMPKRKRGRPRKLSGSSNGTGNDYDDFDRENMMNDSSDLGNGKMCNESYSGNDDGSDDNQPNAGHTDDLNESRDSLPSKRSKNSKDHRVVSHHEDNSTSVTPTKATPELSQRLFGSSSTTISATAPGGSSTGPSETISLLEISDERESAPVHLPTILGLKIRAINTTTPAQQGSPQTPTKSKPKIRQATGSNNSNSLLKQQLRGGAKDPEVPPATRITGAVTPNAALNAEEQSKEMPKKNQDEVNACIGLHSLANAAEQQAAQVASTGNLHHQLLLHMAANNSMLNTTDYYQQQQQESPSSAGQFMDDDLELLSLNDQQDKSDEPDHEMVTLADENAGLPGYQGNEAEATPAQEDSPAAETATAPPPAPRSGKKGAKRPIQRRRVRRKAQSTLDDQAEHLTEMSVRGLDLFRYASVVEGVYRCTECAKENMQKTFKNKYSFQRHAFLYHEGKHRKVFPCPVCSKEFSRPDKMKNHLKMTHENFTPPKDIGAFSPLKYLISAAAAGDMHATIYQQQQDHYHRQLAEQLEQQNASFDSRDSSLILPDVKMEHAEDQDAEQEAELSDGGYDASNPAAAAAAMLSLQQDVIIKDEIQISPSPSPTPPASCAVAEGKSLALASTAQTAT |
| 6286 | sp|O43818|U3IP2\_HUMAN | MSATAAARKRGKPASGAGAGAGAGKRRRKADSAGDRGKSKGGGKMNEEISSDSESESLAPRKPEEEEEEELEETAQEKKLRLAKLYLEQLRQQEEEKAEARAFEEDQVAGRLKEDVLEQRGRLQKLVAKEIQAPASADIRVLRGHQLSITCLVVTPDDSAIFSAAKDCSIIKWSVESGRKLHVIPRAKKGAEGKPPGHSSHVLCMAISSDGKYLASGDRSKLILIWEAQSCQHLYTFTGHRDAVSGLAFRRGTHQLYSTSHDRSVKVWNVAENSYVETLFGHQDAVAALDALSRECCVTAGGRDGTVRVWKIPEESQLVFYGHQGSIDCIHLINEEHMVSGADDGSVALWGLSKKRPLALQREAHGLRGEPGLEQPFWISSVAALLNTDLVATGSHSSCVRLWQCGEGFRQLDLLCDIPLVGFINSLKFSSSGDFLVAGVGQEHRLGRWWRIKEARNSVCIIPLRRVPVPPAAGS |
| 6287 | sp|Q8NDW8|TT21A\_HUMAN | MSSNDSSLMAGIIYYSQEKYFHHVQQAAAVGLEKFSNDPVLKFFKAYGVLKEEHIQDAISDLESIRHHPDVSLCSTMALIYAHKRCEIIDREAIQELEYSLKEIRKTVSGTALYYAGLFLWLIGRHDKAKEYIDRMLKISRGFREAYVLRGWVDLTSDKPHTAKKAIEYLEQGIQDTKDVLGLMGKAMYFMMQQNYSEALEVVNQITVTSGSFLPALVLKMQLFLARQDWEQTVEMGHRILEKDESNIDACQILTVHELAREGNMTTVSSLKTQKATNHVRNLIKALETREPENPSLHLKKIIVVSRLCGSHQVILGLVCSFIERTFMATPSYVHVATELGYLFILKNQVKEALLWYSEAMKLDKDGMAGLTGIILCHILEGHLEEAEYRLEFLKEVQKSLGKSEVLIFLQALLMSRKHKGEEETTALLKEAVELHFSSMQGIPLGSEYFEKLDPYFLVCIAKEYLLFCPKQPRLPGQIVSPLLKQVAVILNPVVKAAPALIDPLYLMAQVRYYSELENAQSILQRCLELDPASVDAHLLMCQIYLAQGNFGMCFHCLELGVSHNFQVRDHPLYHLIKARALNKAGDYPEAIKTLKMVIKLPALKKEEGRKFLRPSVQPSQRASILLELVEALRLNGELHEATKVMQDTINEFGGTPEENRITIANVDLVLSKGNVDVALNMLRNILPKQSCYMEAREKMANIYLQTLRDRRLYIRCYRELCEHLPGPHTSLLLGDALMSILEPEKALEVYDEAYRQNPHDASLASRIGHAYVKAHQYTEAIEYYEAAQKINGQDFLCCDLGKLLLKLKKVNKAEKVLKQALEHDIVQDIPSMMNDVKCLLLLAKVYKSHKKEAVIETLNKALDLQSRILKRVPLEQPEMIPSQKQLAASICIQFAEHYLAEKEYDKAVQSYKDVFSYLPTDNKVMLELAQLYLLQGHLDLCEQHCAILLQTEQNHETASVLMADLMFRKQKHEAAINLYHQVLEKAPDNFLVLHKLIDLLRRSGKLEDIPAFFELAKKVSSRVPLEPGFNYCRGIYCWHIGQPNEALKFLNKARKDSTWGQSAIYHMVQICLNPDNEVVGGEAFENQGAESNYMEKKELEQQGVSTAEKLLREFYPHSDSSQTQLRLLQGLCRLATREKANMEAALGSFIQIAQAEKDSVPALLALAQAYVFLKQIPKARMQLKRLAKTPWVLSEAEDLEKSWLLLADIYCQGSKFDLALELLRRCVQYNKSCYKAYEYMGFIMEKEQSYKDAVTNYKLAWKYSHHANPAIGFKLAFNYLKDKKFVEAIEICNDVLREHPDYPKIREEILEKARRSLRP |
| 6288 | sp|Q7RTX1|TS1R1\_HUMAN | MLLCTARLVGLQLLISCCWAFACHSTESSPDFTLPGDYLLAGLFPLHSGCLQVRHRPEVTLCDRSCSFNEHGYHLFQAMRLGVEEINNSTALLPNITLGYQLYDVCSDSANVYATLRVLSLPGQHHIELQGDLLHYSPTVLAVIGPDSTNRAATTAALLSPFLVPMISYAASSETLSVKRQYPSFLRTIPNDKYQVETMVLLLQKFGWTWISLVGSSDDYGQLGVQALENQATGQGICIAFKDIMPFSAQVGDERMQCLMRHLAQAGATVVVVFSSRQLARVFFESVVLTNLTGKVWVASEAWALSRHITGVPGIQRIGMVLGVAIQKRAVPGLKAFEEAYARADKKAPRPCHKGSWCSSNQLCRECQAFMAHTMPKLKAFSMSSAYNAYRAVYAVAHGLHQLLGCASGACSRGRVYPWQLLEQIHKVHFLLHKDTVAFNDNRDPLSSYNIIAWDWNGPKWTFTVLGSSTWSPVQLNINETKIQWHGKDNQVPKSVCSSDCLEGHQRVVTGFHHCCFECVPCGAGTFLNKSDLYRCQPCGKEEWAPEGSQTCFPRTVVFLALREHTSWVLLAANTLLLLLLLGTAGLFAWHLDTPVVRSAGGRLCFLMLGSLAAGSGSLYGFFGEPTRPACLLRQALFALGFTIFLSCLTVRSFQLIIIFKFSTKVPTFYHAWVQNHGAGLFVMISSAAQLLICLTWLVVWTPLPAREYQRFPHLVMLECTETNSLGFILAFLYNGLLSISAFACSYLGKDLPENYNEAKCVTFSLLFNFVSWIAFFTTASVYDGKYLPAANMMAGLSSLSSGFGGYFLPKCYVILCRPDLNSTEHFQASIQDYTRRCGST |
| 6289 | sp|P0CS17|UBC2\_CRYNB | MSTAAKRRLIRDFKRLTSDAPIGISGSPNPDNIMVWNAVIFGPPETPFEDGSFRLTLTFTDAYPNKPPTVRFISKMFHPNIYANGELCLDILQNRWSPTYDVAAILTSVQSLLNDPNPASPANVDAAQLFKENLKEYERRVKKTVELSWVDNADEIEAEVVEADEGSSS |
| 6290 | sp|Q925D8|TS1R3\_MOUSE | MPALAIMGLSLAAFLELGMGASLCLSQQFKAQGDYILGGLFPLGSTEEATLNQRTQPNSIPCNRFSPLGLFLAMAMKMAVEEINNGSALLPGLRLGYDLFDTCSEPVVTMKSSLMFLAKVGSQSIAAYCNYTQYQPRVLAVIGPHSSELALITGKFFSFFLMPQVSYSASMDRLSDRETFPSFFRTVPSDRVQLQAVVTLLQNFSWNWVAALGSDDDYGREGLSIFSSLANARGICIAHEGLVPQHDTSGQQLGKVLDVLRQVNQSKVQVVVLFASARAVYSLFSYSIHHGLSPKVWVASESWLTSDLVMTLPNIARVGTVLGFLQRGALLPEFSHYVETHLALAADPAFCASLNAELDLEEHVMGQRCPRCDDIMLQNLSSGLLQNLSAGQLHHQIFATYAAVYSVAQALHNTLQCNVSHCHVSEHVLPWQLLENMYNMSFHARDLTLQFDAEGNVDMEYDLKMWVWQSPTPVLHTVGTFNGTLQLQQSKMYWPGNQVPVSQCSRQCKDGQVRRVKGFHSCCYDCVDCKAGSYRKHPDDFTCTPCNQDQWSPEKSTACLPRRPKFLAWGEPVVLSLLLLLCLVLGLALAALGLSVHHWDSPLVQASGGSQFCFGLICLGLFCLSVLLFPGRPSSASCLAQQPMAHLPLTGCLSTLFLQAAETFVESELPLSWANWLCSYLRGLWAWLVVLLATFVEAALCAWYLIAFPPEVVTDWSVLPTEVLEHCHVRSWVSLGLVHITNAMLAFLCFLGTFLVQSQPGRYNRARGLTFAMLAYFITWVSFVPLLANVQVAYQPAVQMGAILVCALGILVTFHLPKCYVLLWLPKLNTQEFFLGRNAKKAADENSGGGEAAQGHNE |
| 6291 | sp|Q9NX01|TXN4B\_HUMAN | MSFLLPKLTSKKEVDQAIKSTAEKVLVLRFGRDEDPVCLQLDDILSKTSSDLSKMAAIYLVDVDQTAVYTQYFDISYIPSTVFFFNGQHMKVDYGSPDHTKFVGSFKTKQDFIDLIEVIYRGAMRGKLIVQSPIDPKNIPKYDLLYQDI |
| 6292 | sp|Q04983|TYRC\_ZYMMO | MTVFKHIAIIGLGLIGSSAARATKAYCPDVTVSLYDKSEFVRDRARALNLGDNVTDDIQDAVREADLVLLCVPVRAMGIVAAAMAPALKKDVIICDTGSVKVSVIKTLQDNLPNHIIVPSHPLAGTENNGPDAGFAELFQDHPVILTPDAHTPAQAIAYIADYWEEIGGRINLMSAEHHDHVLALTSHLPHVIAYQLIGMVSGYEKKSRTPIMRYSAGSFRDATRVAASEPRLWQDIMLENAPALLPVLDHFIADLKKLRTAIASQDGDYLLEHFKESQKARLALKTDHDIRP |
| 6293 | sp|Q9R186|TRPV6\_RAT | MGPLQREGRPALGDANVAPGSSPGGVWHQPQPPKDSAFHPMGWSLPKEKGLILCLWNKFCRWFHRRESWAQSRDEQNLLQQKRIWESPLLLAAKENNVQALIKLLKFEGCEVHQKGAMGETALHIAALYDNLEAAMVLMEAAPELVFEPMTSELYEGQTALHIAVINQNVNLVRALLARGASVSARATGSVFHYRPHNLIYYGEHPLSFAACVGSEEIVRLLIEHGADIRAQDSLGNTVLHILILQPNKTFACQMYNLLLSYDGGDHLKSLELVPNNQGLTPFKLAGVEGNIVMFQHLMQKRKHIQWTYGPLTSTLYDLTEIDSSGDDQSLLELIVTTKKREARQILDQTPVKELVSLKWKRYGRPYFCVLGAIYVLYIICFTMCCVYRPLKPRITNRTNPRDNTLLQQKLLQEAYVTPKDDLRLVGELVSIVGAVIILLVEIPDIFRLGVTRFFGQTILGGPFHVIIVTYAFMVLVTMVMRLTNSDGEVVPMSFALVLGWCNVMYFARGFQMLGPFTIMIQKMIFGDLMRFCWLMAVVILGFASAFYIIFQTEDPDELGHFYDYPMALFSTFELFLTIIDGPANYDVDLPFMYSITYAAFAIIATLLMLNLLIAMMGDTHWRVAHERDELWRAQVVATTVMLERKLPRCLWPRSGICGREYGLGDRWFLRVEDRQDLNRQRIRRYAQAFQQQDDLYSEDLEKDSGEKLEMARPFGAYLSFPTPSVSRSTSRSSTNWDRLRQGALRKDLQGIINRGLEDGEGWEYQI |
| 6294 | sp|Q9Y4A5|TRRAP\_HUMAN | MAFVATQGATVVDQTTLMKKYLQFVAALTDVNTPDETKLKMMQEVSENFENVTSSPQYSTFLEHIIPRFLTFLQDGEVQFLQEKPAQQLRKLVLEIIHRIPTNEHLRPHTKNVLSVMFRFLETENEENVLICLRIIIELHKQFRPPITQEIHHFLDFVKQIYKELPKVVNRYFENPQVIPENTVPPPEMVGMITTIAVKVNPEREDSETRTHSIIPRGSLSLKVLAELPIIVVLMYQLYKLNIHNVVAEFVPLIMNTIAIQVSAQARQHKLYNKELYADFIAAQIKTLSFLAYIIRIYQELVTKYSQQMVKGMLQLLSNCPAETAHLRKELLIAAKHILTTELRNQFIPCMDKLFDESILIGSGYTARETLRPLAYSTLADLVHHVRQHLPLSDLSLAVQLFAKNIDDESLPSSIQTMSCKLLLNLVDCIRSKSEQESGNGRDVLMRMLEVFVLKFHTIARYQLSAIFKKCKPQSELGAVEAALPGVPTAPAAPGPAPSPAPVPAPPPPPPPPPPATPVTPAPVPPFEKQGEKDKEDKQTFQVTDCRSLVKTLVCGVKTITWGITSCKAPGEAQFIPNKQLQPKETQIYIKLVKYAMQALDIYQVQIAGNGQTYIRVANCQTVRMKEEKEVLEHFAGVFTMMNPLTFKEIFQTTVPYMVERISKNYALQIVANSFLANPTTSALFATILVEYLLDRLPEMGSNVELSNLYLKLFKLVFGSVSLFAAENEQMLKPHLHKIVNSSMELAQTAKEPYNYFLLLRALFRSIGGGSHDLLYQEFLPLLPNLLQGLNMLQSGLHKQHMKDLFVELCLTVPVRLSSLLPYLPMLMDPLVSALNGSQTLVSQGLRTLELCVDNLQPDFLYDHIQPVRAELMQALWRTLRNPADSISHVAYRVLGKFGGSNRKMLKESQKLHYVVTEVQGPSITVEFSDCKASLQLPMEKAIETALDCLKSANTEPYYRRQAWEVIKCFLVAMMSLEDNKHALYQLLAHPNFTEKTIPNVIISHRYKAQDTPARKTFEQALTGAFMSAVIKDLRPSALPFVASLIRHYTMVAVAQQCGPFLLPCYQVGSQPSTAMFHSEENGSKGMDPLVLIDAIAICMAYEEKELCKIGEVALAVIFDVASIILGSKERACQLPLFSYIVERLCACCYEQAWYAKLGGVVSIKFLMERLPLTWVLQNQQTFLKALLFVMMDLTGEVSNGAVAMAKTTLEQLLMRCATPLKDEERAEEIVAAQEKSFHHVTHDLVREVTSPNSTVRKQAMHSLQVLAQVTGKSVTVIMEPHKEVLQDMVPPKKHLLRHQPANAQIGLMEGNTFCTTLQPRLFTMDLNVVEHKVFYTELLNLCEAEDSALTKLPCYKSLPSLVPLRIAALNALAACNYLPQSREKIIAALFKALNSTNSELQEAGEACMRKFLEGATIEVDQIHTHMRPLLMMLGDYRSLTLNVVNRLTSVTRLFPNSFNDKFCDQMMQHLRKWMEVVVITHKGGQRSDGNESISECGRCPLSPFCQFEEMKICSAIINLFHLIPAAPQTLVKPLLEVVMKTERAMLIEAGSPFREPLIKFLTRHPSQTVELFMMEATLNDPQWSRMFMSFLKHKDARPLRDVLAANPNRFITLLLPGGAQTAVRPGSPSTSTMRLDLQFQAIKIISIIVKNDDSWLASQHSLVSQLRRVWVSENFQERHRKENMAATNWKEPKLLAYCLLNYCKRNYGDIELLFQLLRAFTGRFLCNMTFLKEYMEEEIPKNYSIAQKRALFFRFVDFNDPNFGDELKAKVLQHILNPAFLYSFEKGEGEQLLGPPNPEGDNPESITSVFITKVLDPEKQADMLDSLRIYLLQYATLLVEHAPHHIHDNNKNRNSKLRRLMTFAWPCLLSKACVDPACKYSGHLLLAHIIAKFAIHKKIVLQVFHSLLKAHAMEARAIVRQAMAILTPAVPARMEDGHQMLTHWTRKIIVEEGHTVPQLVHILHLIVQHFKVYYPVRHHLVQHMVSAMQRLGFTPSVTIEQRRLAVDLSEVVIKWELQRIKDQQPDSDMDPNSSGEGVNSVSSSIKRGLSVDSAQEVKRFRTATGAISAVFGRSQSLPGADSLLAKPIDKQHTDTVVNFLIRVACQVNDNTNTAGSPGEVLSRRCVNLLKTALRPDMWPKSELKLQWFDKLLMTVEQPNQVNYGNICTGLEVLSFLLTVLQSPAILSSFKPLQRGIAACMTCGNTKVLRAVHSLLSRLMSIFPTEPSTSSVASKYEELECLYAAVGKVIYEGLTNYEKATNANPSQLFGTLMILKSACSNNPSYIDRLISVFMRSLQKMVREHLNPQAASGSTEATSGTSELVMLSLELVKTRLAVMSMEMRKNFIQAILTSLIEKSPDAKILRAVVKIVEEWVKNNSPMAANQTPTLREKSILLVKMMTYIEKRFPEDLELNAQFLDLVNYVYRDETLSGSELTAKLEPAFLSGLRCAQPLIRAKFFEVFDNSMKRRVYERLLYVTCSQNWEAMGNHFWIKQCIELLLAVCEKSTPIGTSCQGAMLPSITNVINLADSHDRAAFAMVTHVKQEPRERENSESKEEDVEIDIELAPGDQTSTPKTKELSEKDIGNQLHMLTNRHDKFLDTLREVKTGALLSAFVQLCHISTTLAEKTWVQLFPRLWKILSDRQQHALAGEISPFLCSGSHQVQRDCQPSALNCFVEAMSQCVPPIPIRPCVLKYLGKTHNLWFRSTLMLEHQAFEKGLSLQIKPKQTTEFYEQESITPPQQEILDSLAELYSLLQEEDMWAGLWQKRCKYSETATAIAYEQHGFFEQAQESYEKAMDKAKKEHERSNASPAIFPEYQLWEDHWIRCSKELNQWEALTEYGQSKGHINPYLVLECAWRVSNWTAMKEALVQVEVSCPKEMAWKVNMYRGYLAICHPEEQQLSFIERLVEMASSLAIREWRRLPHVVSHVHTPLLQAAQQIIELQEAAQINAGLQPTNLGRNNSLHDMKTVVKTWRNRLPIVSDDLSHWSSIFMWRQHHYQGKPTWSGMHSSSIVTAYENSSQHDPSSNNAMLGVHASASAIIQYGKIARKQGLVNVALDILSRIHTIPTVPIVDCFQKIRQQVKCYLQLAGVMGKNECMQGLEVIESTNLKYFTKEMTAEFYALKGMFLAQINKSEEANKAFSAAVQMHDVLVKAWAMWGDYLENIFVKERQLHLGVSAITCYLHACRHQNESKSRKYLAKVLWLLSFDDDKNTLADAVDKYCIGVPPIQWLAWIPQLLTCLVGSEGKLLLNLISQVGRVYPQAVYFPIRTLYLTLKIEQRERYKSDPGPIRATAPMWRCSRIMHMQRELHPTLLSSLEGIVDQMVWFRENWHEEVLRQLQQGLAKCYSVAFEKSGAVSDAKITPHTLNFVKKLVSTFGVGLENVSNVSTMFSSAASESLARRAQATAQDPVFQKLKGQFTTDFDFSVPGSMKLHNLISKLKKWIKILEAKTKQLPKFFLIEEKCRFLSNFSAQTAEVEIPGEFLMPKPTHYYIKIARFMPRVEIVQKHNTAARRLYIRGHNGKIYPYLVMNDACLTESRREERVLQLLRLLNPCLEKRKETTKRHLFFTVPRVVAVSPQMRLVEDNPSSLSLVEIYKQRCAKKGIEHDNPISRYYDRLATVQARGTQASHQVLRDILKEVQSNMVPRSMLKEWALHTFPNATDYWTFRKMFTIQLALIGFAEFVLHLNRLNPEMLQIAQDTGKLNVAYFRFDINDATGDLDANRPVPFRLTPNISEFLTTIGVSGPLTASMIAVARCFAQPNFKVDGILKTVLRDEIIAWHKKTQEDTSSPLSAAGQPENMDSQQLVSLVQKAVTAIMTRLHNLAQFEGGESKVNTLVAAANSLDNLCRMDPAWHPWL |
| 6295 | sp|Q7TN37|TRPM4\_MOUSE | MVGPEKEQSWIPKIFRKKVCTTFIVDLSDDAGGTLCQCGQPRDAHPSVAVEDAFGAAVVTEWNSDEHTTEKPTDAYGDLDFTYSGRKHSNFLRLSDRTDPATVYSLVTRSWGFRAPNLVVSVLGGSGGPVLQTWLQDLLRRGLVRAAQSTGAWIVTGGLHTGIGRHVGVAVRDHQTASTGSSKVVAMGVAPWGVVRNRDMLINPKGSFPARYRWRGDPEDGVEFPLDYNYSAFFLVDDGTYGRLGGENRFRLRFESYVAQQKTGVGGTGIDIPVLLLLIDGDEKMLKRIEDATQAQLPCLLVAGSGGAADCLVETLEDTLAPGSGGLRRGEARDRIRRYFPKGDPEVLQAQVERIMTRKELLTVYSSEDGSEEFETIVLRALVKACGSSEASAYLDELRLAVAWNRVDIAQSELFRGDIQWRSFHLEASLMDALLNDRPEFVRLLISHGLSLGHFLTPVRLAQLYSAVSPNSLIRNLLDQASHASSSKSPPVNGTVELRPPNVGQVLRTLLGETCAPRYPARNTRDSYLGQDHRENDSLLMDWANKQPSTDASFEQAPWSDLLIWALLLNRAQMAIYFWEKGSNSVASALGACLLLRVMARLESEAEEAARRKDLAATFESMSVDLFGECYHNSEERAARLLLRRCPLWGEATCLQLAMQADARAFFAQDGVQSLLTQKWWGEMDSTTPIWALLLAFFCPPLIYTNLIVFRKSEEEPTQKDLDFDMDSSINGAGPPGTVEPSAKVALERRQRRRPGRALCCGKFSKRWSDFWGAPVTAFLGNVVSYLLFLLLFAHVLLVDFQPTKPSVSELLLYFWAFTLLCEELRQGLGGGWGSLASGGRGPDRAPLRHRLHLYLSDTWNQCDLLALTCFLLGVGCRLTPGLFDLGRTVLCLDFMIFTLRLLHIFTVNKQLGPKIVIVSKMMKDVFFFLFFLCVWLVAYGVATEGILRPQDRSLPSILRRVFYRPYLQIFGQIPQEEMDVALMIPGNCSMERGSWAHPEGPVAGSCVSQYANWLVVLLLIVFLLVANILLLNLLIAMFSYTFSKVHGNSDLYWKAQRYSLIREFHSRPALAPPLIIISHVRLLIKWLRRCRRCRRANLPASPVFEHFRVCLSKEAERKLLTWESVHKENFLLAQARDKRDSDSERLKRTSQKVDTALKQLGQIREYDRRLRGLEREVQHCSRVLTWMAEALSHSALLPPGAPPPPSPTGSKD |
| 6296 | sp|P33296|UBC6\_YEAST | MATKQAHKRLTKEYKLMVENPPPYILARPNEDNILEWHYIITGPADTPYKGGQYHGTLTFPSDYPYKPPAIRMITPNGRFKPNTRLCLSMSDYHPDTWNPGWSVSTILNGLLSFMTSDEATTGSITTSDHQKKTLARNSISYNTFQNVRFKLIFPEVVQENVETLEKRKLDEGDAANTGDETEDPFTKAAKEKVISLEEILDPEDRIRAEQALRQSENNSKKDGKEPNDSSSMVYIGIAIFLFLVGLFMK |
| 6297 | sp|P51668|UB2D1\_HUMAN | MALKRIQKELSDLQRDPPAHCSAGPVGDDLFHWQATIMGPPDSAYQGGVFFLTVHFPTDYPFKPPKIAFTTKIYHPNINSNGSICLDILRSQWSPALTVSKVLLSICSLLCDPNPDDPLVPDIAQIYKSDKEKYNRHAREWTQKYAM |
| 6298 | sp|Q704Y3|TRPV1\_MOUSE | MEKWASLDSDESEPPAQENSCPDPPDRDPNSKPPPAKPHIFATRSRTRLFGKGDSEEASPMDCPYEEGGLASCPIITVSSVVTLQRSVDGPTCLRQTSQDSVSTGVETPPRLYDRRSIFDAVAQSNCQELESLLSFLQKSKKRLTDSEFKDPETGKTCLLKAMLNLHNGQNDTIALLLDIARKTDSLKQFVNASYTDSYYKGQTALHIAIERRNMALVTLLVENGADVQAAANGDFFKKTKGRPGFYFGELPLSLAACTNQLAIVKFLLQNSWQPADISARDSVGNTVLHALVEVADNTADNTKFVTNMYNEILILGAKLHPTLKLEELTNKKGLTPLALAASSGKIGVLAYILQREIHEPECRHLSRKFTEWAYGPVHSSLYDLSCIDTCEKNSVLEVIAYSSSETPNRHDMLLVEPLNRLLQDKWDRFVKRIFYFNFFVYCLYMIIFTTAAYYRPVEGLPPYKLNNTVGDYFRVTGEILSVSGGVYFFFRGIQYFLQRRPSLKSLFVDSYSEILFFVQSLFMLVSVVLYFSHRKEYVASMVFSLAMGWTNMLYYTRGFQQMGIYAVMIEKMILRDLCRFMFVYLVFLFGFSTAVVTLIEDGKNNSLPVESPPHKCRGSACRPGNSYNSLYSTCLELFKFTIGMGDLEFTENYDFKAVFIILLLAYVILTYILLLNMLIALMGETVNKIAQESKNIWKLQRAITILDTEKSFLKCMRKAFRSGKLLQVGFTPDGKDDFRWCFRVDEVNWTTWNTNVGIINEDPGNCEGVKRTLSFSLRSGRVSGRNWKNFALVPLLRDASTRDRHSTQPEEVQLKHYTGSLKPEDAEVFKDSMAPGEK |
| 6299 | sp|Q9FKS0|UKL1\_ARATH | MPEDSSSLDYAMEKASGPHFSGLRFDGLLSSSPPNSSVVSSLRSAVSSSSPSSSDPEAPKQPFIIGVSGGTASGKTTVCDMIIQQLHDHRVVLVNQDSFYRGLTSEELQRVQEYNFDHPDAFDTEQLLHCAETLKSGQPYQVPIYDFKTHQRRSDTFRQVNASDVIILEGILVFHDSRVRNLMNMKIFVDTDADVRLARRIRRDTVERGRDVNSVLEQYAKFVKPAFDDFVLPSKKYADVIIPRGGDNHVAVDLITQHIHTKLGQHDLCKIYPNVYVIQSTFQIRGMHTLIREKDISKHDFVFYSDRLIRLVVEHGLGHLPFTEKQVVTPTGAVYTGVDFCKKLCGVSIIRSGESMENALRACCKGIKIGKILIHRDGDNGKQLIYEKLPHDISERHVLLLDPVLATGNSANQAIELLIQKGVPEAHIIFLNLISAPEGIHCVCKRFPALKIVTSEIDQCLNQEFRVIPGLGEFGDRYFGTDEEDQ |
| 6300 | sp|Q09332|UGGG\_DROME | MLRAVALCVSVVLIALYTPTSGESSQSYPITTLINAKWTQTPLYLEIAEYLADEQAGLFWDYVSGVTKLDTVLNEYDTESQQYNAALELVKSHVSSPQLPLLRLVVSMHSLTPRIQTHFQLAEELRSSGSCQSFTFAQVGSELACSFNELQKKLEVPLAKDSLDASVVTYSFDHIFPGSENNTRTVVLYGDLGSSQFRTYHKLLEKEANAGRIRYILRHQLAKKDKRPVRLSGYGVELHLKSTEYKSQDDAPKPEAGSTSDEDLANESDVQGFDFKVLKQKHPTLKRALDQLRQRLLQGNDEIAQLKAWEFQDLGLQAAAAIAEIQGDETLQILQYTAHNFPMLARTLLAHKVTDGLRAEVKHNTEAFGRSLNVAPPDGALFINGLFFDADTMDLYSLIETLRSEMRVLESLHSNNVRGSLASSLLALDLTASSKKEFAIDIRDTAVQWVNDIENDVQYRRWPSSVMDLLRPTFPGMLRNIRKNVFNLVLVVDALQPTARSVIKLSESFVIHQAPIRLGLVFDARDANEDNLADYVAITCAYNYVSQKKDARAALSFLTDIYAAVGETKVVTKKDIVKQLTKEFTSLSFAKAEEFLEEDSTYDYGRELAAEFIQRLGFGDKGQPQALLNGVPMPSNVVTADSDFEEAIFTEIMTHTSNLQKAVYKGELTDNDVAIDYLMNQPHVMPRLNQRILSQEDVKYLDINGVAYKNLGNVGVLNRLSNRDMTATLMDNLKYFGGKKSTELIGRASLQFLTIWVFADLETDQGRDLLTHALDYVQSGESVRVAFIPNTESSSASSRRNLNRLVWAAMQSLPPTQATEQVLKWLKKPKEKIEIPTQLEDILGSTELHLKMLRVYSQRVLGLNKSQRLVIGNGRLYGPLSSDESFDSADFALLARFSSLQYSDKVRQVLKESAQDVNEEFNSDTLLKLYASLLPRQTKTRFKLPTDLKTDHSVVKLPPKQENLPHFDVAAVLDPASRAAQKLTPILILLRQVLNCQLNLYLIPVPQHSDMPVKNFYRYVVEPEVQFEANGGRSDGPLAKFSGLPANPLLTQQLQVPENWLVEAVRAVYDLDNIKLTDIGGPVHSEFDLEYLLLEGHCFDAASGAPPRGLQLVLGTQSQPTLVDTIVMANLGYFQLKANPGAWSLRLREGKSADIYAISHIEGTNTHHSAGSSEVQVLITSLRSHVVKLRVSKKPGMQQAELLSDDNEQAAQSGMWNSIASSFGGGSANQAATDEDTETINIFSVASGHLYERLLRIMMVSLLKHTKSPVKFWFLKNYLSPQFTDFLPHMASEYNFQYELVQYKWPRWLHQQTEKQRTIWGYKILFLDVLFPLNVRKIIFVDADAIVRTDIKELYDMDLGGAPYAYTPFCDSRKEMEGFRFWKQGYWRSHLMGRRYHISALYVVDLKRFRKIAAGDRLRGQYQALSQDPNSLSNLDQDLPNNMIHQVAIKSLPDDWLWCQTWCSDSNFKTAKVIDLCNNPQTKEAKLTAAQRIVPEWKDYDAELKTLMSRIEDHENSHSRDSAVDDSVDDSVEVTTVTPSHEPKHGEL |
| 6301 | sp|Q9NZI7|UBIP1\_HUMAN | MAWVLKMDEVIESGLVHDFDASLSGIGQELGAGAYSMSDVLALPIFKQEDSSLPLDGETEHPPFQYVMCAATSPAVKLHDETLTYLNQGQSYEIRMLDNRKMGDMPEINGKLVKSIIRVVFHDRRLQYTEHQQLEGWKWNRPGDRLLDLDIPMSVGIIDTRTNPSQLNAVEFLWDPAKRTSAFIQVHCISTEFTPRKHGGEKGVPFRIQVDTFKQNENGEYTDHLHSASCQIKVFKPKGADRKQKTDREKMEKRTAHEKEKYQPSYDTTILTEMRLEPIIEDAVEHEQKKSSKRTLPADYGDSLAKRGSCSPWPDAPTAYVNNSPSPAPTFTSPQQSTCSVPDSNSSSPNHQGDGASQTSGEQIQPSATIQETQQWLLKNRFSSYTRLFSNFSGADLLKLTKEDLVQICGAADGIRLYNSLKSRSVRPRLTIYVCREQPSSTVLQGQQQAASSASENGSGAPYVYHAIYLEEMIASEVARKLALVFNIPLHQINQVYRQGPTGIHILVSDQMVQNFQDESCFLFSTVKAESSDGIHIILK |
| 6302 | sp|Q8BGG7|UBS3B\_MOUSE | MAAREELYSKVTPRRDRLQRPGTVKHGSALDVLLSMGFPRARAQKALASTGGRSVQAACDWLFSHVGDPFLDDPLPREYVLYLRPTGPLAQKLSDFWQQSKQICGKNKAHNIFPHITLCQFFMCEDSKVDALGEALQTTVSRWKCKFSAPLPLELYTSSNFIGLFVKEDSAEVLKKFAADFAAEAASKTEVHVEPHKKQLHVTLAYHFQASHLPTLEKLAQNIDVKLGCDWVATIFSRDIRFANHETLQVIYPYSPQNDDELELVPGDFIFMSPMEQTSTSEGWIYGTSLTTGCSGLLPENYITKADECSTWIFHGSYSILNTVSSSSLAFGDGALERRQYEDQGLGETTPLTIICQPMQPLRVNSQPGPQKRCLFVCRHGERMDVVFGKYWLSQCFDAKGRYIRTNLNMPHSLPQRSGGFRDYEKDAPITVFGCMQARLVGEALLESNTVIDHVYCSPSLRCVQTAHNILKGLQQDNHLKIRVEPGLFEWTKWVAGSTLPAWIPPSELAAANLSVDTTYRPHIPVSKLAISESYDTYINRSFQVTKEIISECKSKGNNILIVAHASSLEACTCQLQGLSPQNSKDFVQMVRKIPYLGFCSCEELGETGIWQLTDPPILPLTHGPTGGFNWRETLLQE |
| 6303 | sp|P0AAB4|UBID\_ECOLI | MDAMKYNDLRDFLTLLEQQGELKRITLPVDPHLEITEIADRTLRAGGPALLFENPKGYSMPVLCNLFGTPKRVAMGMGQEDVSALREVGKLLAFLKEPEPPKGFRDLFDKLPQFKQVLNMPTKRLRGAPCQQKIVSGDDVDLNRIPIMTCWPEDAAPLITWGLTVTRGPHKERQNLGIYRQQLIGKNKLIMRWLSHRGGALDYQEWCAAHPGERFPVSVALGADPATILGAVTPVPDTLSEYAFAGLLRGTKTEVVKCISNDLEVPASAEIVLEGYIEQGETAPEGPYGDHTGYYNEVDSFPVFTVTHITQREDAIYHSTYTGRPPDEPAVLGVALNEVFVPILQKQFPEIVDFYLPPEGCSYRLAVVTIKKQYAGHAKRVMMGVWSFLRQFMYTKFVIVCDDDVNARDWNDVIWAITTRMDPARDTVLVENTPIDYLDFASPVSGLGSKMGLDATNKWPGETQREWGRPIKKDPDVVAHIDAIWDELAIFNNGKSA |
| 6304 | sp|P22543|VPS34\_YEAST | MSLNNITFCVSQDLDVPLKVKIKSLEGHKPLLKPSQKILNPELMLIGSNVFPSSDLIVSLQVFDKERNRNLTLPIYTPYIPFRNSRTWDYWLTLPIRIKQLTFSSHLRIILWEYNGSKQIPFFNLETSIFNLKDCTLKRGFESLKFRYDVIDHCEVVTDNKDQENLNKYFQGEFTRLPWLDEITISKLRKQRENRTWPQGTFVLNLEFPMLELPVVFIEREIMNTQMNIPTLKNNPGLSTDLREPNRNDPQIKISLGDKYHSTLKFYDPDQPNNDPIEEKYRRLERASKNANLDKQVKPDIKKRDYLNKIINYPPGTKLTAHEKGSIWKYRYYLMNNKKALTKLLQSTNLREESERVEVLELMDSWAEIDIDDALELLGSTFKNLSVRSYAVNRLKKASDKELELYLLQLVEAVCFENLSTFSDKSNSEFTIVDAVSSQKLSGDSMLLSTSHANQKLLKSISSESETSGTESLPIVISPLAEFLIRRALVNPRLGSFFYWYLKSESEDKPYLDQILSSFWSRLDKKSRNILNDQVRLINVLRECCETIKRLKDTTAKKMELLVHLLETKVRPLVKVRPIALPLDPDVLICDVCPETSKVFKSSLSPLKITFKTTLNQPYHLMFKVGDDLRQDQLVVQIISLMNELLKNENVDLKLTPYKILATGPQEGAIEFIPNDTLASILSKYHGILGYLKLHYPDENATLGVQGWVLDNFVKSCAGYCVITYILGVGDRHLDNLLVTPDGHFFHADFGYILGQDPKPFPPLMKLPPQIIEAFGGAESSNYDKFRSYCFVAYSILRRNAGLILNLFELMKTSNIPDIRIDPNGAILRVRERFNLNMSEEDATVHFQNLINDSVNALLPIVIDHLHNLAQYWRT |
| 6305 | sp|Q7YSI9|UNC53\_CAEEL | MTTSNVELIPIYTDWANRHLSKGSLSKSIRDISNDFRDYRLVSQLINVIVPINEFSPAFTKRLAKITSNLDGLETCLDYLKNLGLDCSKLTKTDIDSGNLGAVLQLLFLLSTYKQKLRQLKKDQKKLEQLPTSIMPPAVSKLPSPRVATSATASATNPNSNFPQMSTSRLQTPQSRISKIDSSKIGIKPKTSGLKPPSSSTTSSNNTNSFRPSSRSSGNNNVGSTISTSAKSLESSSTYSSISNLNRPTSQLQKPSRPQTQLVRVATTTKIGSSKLAAPKAVSTPKLASVKTIGAKQEPDNSGGGGGGMLKLKLFSSKNPSSSSNSPQPTRKAAAVPQQQTLSKIAAPVKSGLKPPTSKLGSATSMSKLCTPKVSYRKTDAPIISQQDSKRCSKSSEEESGYAGFNSTSPTSSSTEGSLSMHSTSSKSSTSDEKSPSSDDLTLNASIVTAIRQPIAATPVSPNIINKPVEEKPTLAVKGVKSTAKKDPPPAVPPRDTQPTIGVVSPIMAHKKLTNDPVISEKPEPEKLQSMSIDTTDVPPLPPLKSVVPLKMTSIRQPPTYDVLLKQGKITSPVKSFGYEQSSASEDSIVAHASAQVTPPTKTSGNHSLERRMGKNKTSESSGYTSDAGVAMCAKMREKLKEYDDMTRRAQNGYPDNFEDSSSLSSGISDNNELDDISTDDLSGVDMATVASKHSDYSHFVRHPTSSSSKPRVPSRSSTSVDSRSRAEQENVYKLLSQCRTSQRGAAATSTFGQHSLRSPGYSSYSPHLSVSADKDTMSMHSQTSRRPSSQKPSYSGQFHSLDRKCHLQEFTSTEHRMAALLSPRRVPNSMSKYDSSAAALNASGMSRSMILLESLSPRPPRRHQSPADSCIITASPSAPRRSHSPRGPTARIPLSLASSPVHVNNNWGSYSARSRGGSSTGIYGETFQLHRLSDEKSPAHSAKSEMGSQLSLASTTAYGSLNEKYEHAIRDMARDLECYKNTVDSLTKKQENYGALFDLFEQKLRKLTQHIDRSNLKPEEAIRFRQDIAHLRDISNHLASNSAHANEGAGELLRQPSLESVASHRSSMSSSSKSSKQEKISLSSFGKNKKSWIRSSLSKFTKKKNKNYDEAHMPSISGSQGTLDNIDVIELKQELKERDSALYEVRLDNLDRAREVDVLRETVNKLKTENKQLKKEVDKLTNGPATRASSRASIPVIYDDEHVYDAACSSTSASQSSKRSSGCNSIKVTVNVDIAGEISSIVNPDKEIIVGYLAMPTSQSCWKDIDVSILGLFEVYLSRIDVEHQLGIDARDSILGYQIGELRRVIGDSTTMITSHPTDILTSSTTIRMFMHGAAQSRVDSLVLDMLLPKQMILQLVKSILTERRLVLAGATGIGKSKLAKTLAAYVSIRTNQSEDSIVNISIPENNKEELLQVERRLEKILRSKESCIVILDNIPKNRIAFVVSVFANVPLQNNEGPFVVCTVNRYQIPELQIHHNFKMSVMSNRLEGFILRYLRRRAVEDEYRLTVQMPSELFKIIDFFPIALQAVNNFIEKTNSVDVTVGPRACLNCPLTVDGSREWFIRLWNENFIPYLERVARDGKKTFGRCTSFEDPTDIVSEKWPWFDGENPENVLKRLQLQDLVPSPANSSRQHFNPLESLIQLHATKHQTIDNI |
| 6306 | sp|Q761X5|UNC5C\_RAT | MRKGLRATAARCGLGLGYLLQMLVLPALALLSASGTGSAAQDDDFFHELPETFPSDPPEPLPHFLIEPEEAYIVKNKPVNLYCKASPATQIYFKCNSEWVHQKDHVVDERVDETSGLIVREVSIEISRQQVEELFGPEDYWCQCVAWSSAGTTKSRKAYVRIAYLRKTFEQEPLGKEVSLEQEVLLQCRPPEGIPMAEVEWLKNEDIIDPVEDRNFYITIDHNLIIKQARLSDTANYTCVAKNIVAKRKSTTATVIVYVNGGWSTWAEWSVCNSRCGRGYQKRTRTCTNPAPLNGGAFCEGQSVQKIACTTLCPVDGRWTSWSKWSTCGTECTHWRRRECTAPAPKNGGKDCDGLVLQSKNCTDGLCMQAAPDSDDVALYVGIVIAVTVCLAITVVVALFVYRKNHRDFESNIIDSSALNGGFQPVNIKAARQDLLAVPPDLTSAAAMYRGPVYALHDVSDKIPMTNSPILDPLPNLKIKVYNSSGAVTPQDDLAEFSSKLSPQMTQSLLENEALNLKNQSLARQTDPSCTAFGTFNSLGGHLIIPNSGVSLLIPAGAIPQGRVYEMYVTVHRKENMRPPMEDSQTLLTPVVSCGPPGALLTRPVILTLHHCADPNTEDWKIQLKNQAVQGQWEDVVVVGEENFTTPCYIQLDAEACHILTENLSTYALVGQSTTKAAAKRLKLAIFGPLCCSSLEYSIRVYCLDDTQDALKEVLQLERQMGGQLLEEPKALHFKGSIHNLRLSIHDITHSLWKSKLLAKYQEIPFYHIWSGSQRNLHCTFTLERLSLNTVELVCKLCVRQVEGEGQIFQLNCTVSEEPTGIDLPLLDPASTITTVTGPSAFSIPLPIRQKLCSSLDAPQTRGHDWRMLAHKLNLDRYLNYFATKSSPTGVILDLWEAQNFPDGNLSMLAAVLEEMGRHETVVSLAAEGQY |
| 6307 | sp|Q2HJG5|VPS35\_BOVIN | MPTTQQSPQDEQEKLLDEAIQAVKVQSFQMKRCLDKNKLMDALKHASNMLGELRTSMLSPKSYYELYMAISDELHYLEVYLTDEFAKGRKVADLYELVQYAGNIIPRLYLLITVGVVYVKSFPQSRKDILKDLVEMCRGVQHPLRGLFLRNYLLQCTRNILPDEGEPTDEETTGDISDSMDFVLLNFAEMNKLWVRMQHQGHSRDREKRERERQELRILVGTNLVRLSQLEGVNVERYKQIVLTGILEQVVNCRDALAQEYLMECIIQVFPDEFHLQTLNPFLRACAELHQNVNVKNIIIALIDRLALFAHREDGPGIPTDIKLFDIFSQQVATVIQSRQDMPSEDVVSLQVSLINLAMKCYPDRVDYVDKVLETTVEIFNKLNLEHIATSSAVSKELTRLLKIPVDTYNNILTVLKLKHFHPLFEYFDYESRKSMSCYVLSNVLDYNTEIVSQDQVDSIMNLVSTLIQDQPDQPVEEPDPEDFADEQSLVGRFIHLLRSEDPDQQYLILNTARKHFGAGGNQRIRFTLPPLVFAAYQLAFRYKENSKVDDKWEKKCQKIFSFAHQTISALIKAELAELPLRLFLQGALAAGEIGFENHETVAYEFMSQAFSLYEDEISDSKAQLAAITLIIGTFERMKCFSEENHEPLRTQCALAASKLLKKPDQGRAVSTCAHLFWSGRNTDKNGEELHGGKRVMECLKKALKIANQCMDPSLQVQLFIEILNRYIYFYEKENDAVTIQVLNQLIQKIREDLPNLESSEETEQINKHFHNTLEHLRLRRESPESEGPIYEGLIL |
| 6308 | sp|P47985|UCRI\_HUMAN | MLSVASRSGPFAPVLSATSRGVAGALRPLVQATVPATPEQPVLDLKRPFLSRESLSGQAVRRPLVASVGLNVPASVCYSHTDIKVPDFSEYRRLEVLDSTKSSRESSEARKGFSYLVTGVTTVGVAYAAKNAVTQFVSSMSASADVLALAKIEIKLSDIPEGKNMAFKWRGKPLFVRHRTQKEIEQEAAVELSQLRDPQHDLDRVKKPEWVILIGVCTHLGCVPIANAGDFGGYYCPCHGSHYDASGRIRLGPAPLNLEVPTYEFTSDDMVIVG |
| 6309 | sp|Q8NDX2|VGLU3\_HUMAN | MPFKAFDTFKEKILKPGKEGVKNAVGDSLGILQRKIDGTTEEEDNIELNEEGRPVQTSRPSPPLCDCHCCGLPKRYIIAIMSGLGFCISFGIRCNLGVAIVEMVNNSTVYVDGKPEIQTAQFNWDPETVGLIHGSFFWGYIMTQIPGGFISNKFAANRVFGAAIFLTSTLNMFIPSAARVHYGCVMCVRILQGLVEGVTYPACHGMWSKWAPPLERSRLATTSFCGSYAGAVVAMPLAGVLVQYIGWSSVFYIYGMFGIIWYMFWLLQAYECPAAHPTISNEEKTYIETSIGEGANVVSLSKFSTPWKRFFTSLPVYAIIVANFCRSWTFYLLLISQPAYFEEVFGFAISKVGLLSAVPHMVMTIVVPIGGQLADYLRSRQILTTTAVRKIMNCGGFGMEATLLLVVGFSHTKGVAISFLVLAVGFSGFAISGFNVNHLDIAPRYASILMGISNGVGTLSGMVCPLIVGAMTRHKTREEWQNVFLIAALVHYSGVIFYGVFASGEKQEWADPENLSEEKCGIIDQDELAEEIELNHESFASPKKKMSYGATSQNCEVQKKEWKGQRGATLDEEELTSYQNEERNFSTIS |
| 6310 | sp|O95071|UBR5\_HUMAN | MTSIHFVVHPLPGTEDQLNDRLREVSEKLNKYNLNSHPPLNVLEQATIKQCVVGPNHAAFLLEDGRVCRIGFSVQPDRLELGKPDNNDGSKLNSNSGAGRTSRPGRTSDSPWFLSGSETLGRLAGNTLGSRWSSGVGGSGGGSSGRSSAGARDSRRQTRVIRTGRDRGSGLLGSQPQPVIPASVIPEELISQAQVVLQGKSRSVIIRELQRTNLDVNLAVNNLLSRDDEDGDDGDDTASESYLPGEDLMSLLDADIHSAHPSVIIDADAMFSEDISYFGYPSFRRSSLSRLGSSRVLLLPLERDSELLRERESVLRLRERRWLDGASFDNERGSTSKEGEPNLDKKNTPVQSPVSLGEDLQWWPDKDGTKFICIGALYSELLAVSSKGELYQWKWSESEPYRNAQNPSLHHPRATFLGLTNEKIVLLSANSIRATVATENNKVATWVDETLSSVASKLEHTAQTYSELQGERIVSLHCCALYTCAQLENSLYWWGVVPFSQRKKMLEKARAKNKKPKSSAGISSMPNITVGTQVCLRNNPLYHAGAVAFSISAGIPKVGVLMESVWNMNDSCRFQLRSPESLKNMEKASKTTEAKPESKQEPVKTEMGPPPSPASTCSDASSIASSASMPYKRRRSTPAPKEEEKVNEEQWSLREVVFVEDVKNVPVGKVLKVDGAYVAVKFPGTSSNTNCQNSSGPDADPSSLLQDCRLLRIDELQVVKTGGTPKVPDCFQRTPKKLCIPEKTEILAVNVDSKGVHAVLKTGNWVRYCIFDLATGKAEQENNFPTSSIAFLGQNERNVAIFTAGQESPIILRDGNGTIYPMAKDCMGGIRDPDWLDLPPISSLGMGVHSLINLPANSTIKKKAAVIIMAVEKQTLMQHILRCDYEACRQYLMNLEQAVVLEQNLQMLQTFISHRCDGNRNILHACVSVCFPTSNKETKEEEEAERSERNTFAERLSAVEAIANAISVVSSNGPGNRAGSSSSRSLRLREMMRRSLRAAGLGRHEAGASSSDHQDPVSPPIAPPSWVPDPPAMDPDGDIDFILAPAVGSLTTAATGTGQGPSTSTIPGPSTEPSVVESKDRKANAHFILKLLCDSVVLQPYLRELLSAKDARGMTPFMSAVSGRAYPAAITILETAQKIAKAEISSSEKEEDVFMGMVCPSGTNPDDSPLYVLCCNDTCSFTWTGAEHINQDIFECRTCGLLESLCCCTECARVCHKGHDCKLKRTSPTAYCDCWEKCKCKTLIAGQKSARLDLLYRLLTATNLVTLPNSRGEHLLLFLVQTVARQTVEHCQYRPPRIREDRNRKTASPEDSDMPDHDLEPPRFAQLALERVLQDWNALKSMIMFGSQENKDPLSASSRIGHLLPEEQVYLNQQSGTIRLDCFTHCLIVKCTADILLLDTLLGTLVKELQNKYTPGRREEAIAVTMRFLRSVARVFVILSVEMASSKKKNNFIPQPIGKCKRVFQALLPYAVEELCNVAESLIVPVRMGIARPTAPFTLASTSIDAMQGSEELFSVEPLPPRPSSDQSSSSSQSQSSYIIRNPQQRRISQSQPVRGRDEEQDDIVSADVEEVEVVEGVAGEEDHHDEQEEHGEENAEAEGQHDEHDEDGSDMELDLLAAAETESDSESNHSNQDNASGRRSVVTAATAGSEAGASSVPAFFSEDDSQSNDSSDSDSSSSQSDDIEQETFMLDEPLERTTNSSHANGAAQAPRSMQWAVRNTQHQRAASTAPSSTSTPAASSAGLIYIDPSNLRRSGTISTSAAAAAAALEASNASSYLTSASSLARAYSIVIRQISDLMGLIPKYNHLVYSQIPAAVKLTYQDAVNLQNYVEEKLIPTWNWMVSIMDSTEAQLRYGSALASAGDPGHPNHPLHASQNSARRERMTAREEASLRTLEGRRRATLLSARQGMMSARGDFLNYALSLMRSHNDEHSDVLPVLDVCSLKHVAYVFQALIYWIKAMNQQTTLDTPQLERKRTRELLELGIDNEDSEHENDDDTNQSATLNDKDDDSLPAETGQNHPFFRRSDSMTFLGCIPPNPFEVPLAEAIPLADQPHLLQPNARKEDLFGRPSQGLYSSSASSGKCLMEVTVDRNCLEVLPTKMSYAANLKNVMNMQNRQKKEGEEQPVLPEETESSKPGPSAHDLAAQLKSSLLAEIGLTESEGPPLTSFRPQCSFMGMVISHDMLLGRWRLSLELFGRVFMEDVGAEPGSILTELGGFEVKESKFRREMEKLRNQQSRDLSLEVDRDRDLLIQQTMRQLNNHFGRRCATTPMAVHRVKVTFKDEPGEGSGVARSFYTAIAQAFLSNEKLPNLECIQNANKGTHTSLMQRLRNRGERDREREREREMRRSSGLRAGSRRDRDRDFRRQLSIDTRPFRPASEGNPSDDPEPLPAHRQALGERLYPRVQAMQPAFASKITGMLLELSPAQLLLLLASEDSLRARVDEAMELIIAHGRENGADSILDLGLVDSSEKVQQENRKRHGSSRSVVDMDLDDTDDGDDNAPLFYQPGKRGFYTPRPGKNTEARLNCFRNIGRILGLCLLQNELCPITLNRHVIKVLLGRKVNWHDFAFFDPVMYESLRQLILASQSSDADAVFSAMDLAFAIDLCKEEGGGQVELIPNGVNIPVTPQNVYEYVRKYAEHRMLVVAEQPLHAMRKGLLDVLPKNSLEDLTAEDFRLLVNGCGEVNVQMLISFTSFNDESGENAEKLLQFKRWFWSIVEKMSMTERQDLVYFWTSSPSLPASEEGFQPMPSITIRPPDDQHLPTANTCISRLYVPLYSSKQILKQKLLLAIKTKNFGFV |
| 6311 | sp|P08670|VIME\_HUMAN | MSTRSVSSSSYRRMFGGPGTASRPSSSRSYVTTSTRTYSLGSALRPSTSRSLYASSPGGVYATRSSAVRLRSSVPGVRLLQDSVDFSLADAINTEFKNTRTNEKVELQELNDRFANYIDKVRFLEQQNKILLAELEQLKGQGKSRLGDLYEEEMRELRRQVDQLTNDKARVEVERDNLAEDIMRLREKLQEEMLQREEAENTLQSFRQDVDNASLARLDLERKVESLQEEIAFLKKLHEEEIQELQAQIQEQHVQIDVDVSKPDLTAALRDVRQQYESVAAKNLQEAEEWYKSKFADLSEAANRNNDALRQAKQESTEYRRQVQSLTCEVDALKGTNESLERQMREMEENFAVEAANYQDTIGRLQDEIQNMKEEMARHLREYQDLLNVKMALDIEIATYRKLLEGEESRISLPLPNFSSLNLRETNLDSLPLVDTHSKRTLLIKTVETRDGQVINETSQHHDDLE |
| 6312 | sp|Q90282|VM3VB\_CROAT | MIQVLLVTICLAAFPYQGSSIILESGNVNDYEVIYPRKVTALPKGAVQPKYEDAMQYELKVNGEPVVLHLGKNKGLFSKDYSETHYSPDGREITTYPLVEDHCYYHGRIENDADSTASISACNGLKGHFKLQGEMYLIEPLKLPDSEAHAVYKYENVEKEDEALKMCGVTQNWESYEPIKKASQLVVTAEHQKYNPFRFVELFLVVDKAMVTKNNGDLDKIKTRMYEIVNTVNEIYRYMYIHVALVGLEIWSNEDKITVKPEAGYTLNAFGEWRKTDLLTRKKHDNAQLLTAIDLDRVIGLAYVGSMCHPKRSTGIIQDYSEINLVVAVIMAHEMGHNLGINHDSGYCSCGDYACIMRPEISPEPSTFFSNCSYFECWDFIMNHNPECILNEPLGTDIISPPVCGNELLEVGEECDCGTPENCQNECCDAATCKLKSGSQCGHGDCCEQCKFSKSGTECRASMSECDPAEHCTGQSSECPADVFHKNGQPCLDNYGYCYNGNCPIMYHQCYDLFGADVYEAEDSCFERNQKGNYYGYCRKENGNKIPCAPEDVKCGRLYCKDNSPGQNNPCKMFYSNEDEHKGMVLPGTKCADGKVCSNGHCVDVATAY |
| 6313 | sp|Q01818|VMAT1\_RAT | MLQVVLGAPQRLLKEGRQSRKLVLVVVFVALLLDNMLLTVVVPIVPTFLYATEFKDSNSSLHRGPSVSSQQALTSPAFSTIFSFFDNTTTTVEEHVPFRVTWTNGTIPPPVTEASSVPKNNCLQGIEFLEEENVRIGILFASKALMQLLVNPFVGPLTNRIGYHIPMFVGFMIMFLSTLMFAFSGTYALLFVARTLQGIGSSFSSVAGLGMLASVYTDNYERGRAMGIALGGLALGLLVGAPFGSVMYEFVGKSSPFLILAFLALLDGALQLCILWPSKVSPESAMGTSLLTLLKDPYILVAAGSICLANMGVAILEPTLPIWMMQTMCSPEWQLGLAFLPASVAYLIGTNLFGVLANKMGRWLCSLVGMVAVGISLLCVPLAHNIFGLIGPNAGLGFAIGMVDSSLMPIMGYLVDLRHTSVYGSVYAIADVAFCVGFAIGPSTGGVIVQVIGFPWLMVIIGTINIIYAPLCCFLQNPPAKEEKRAILSQECPTETQMYTFQKPTKAFPLGENSDDPSSGE |
| 6314 | sp|P11473|VDR\_HUMAN | MEAMAASTSLPDPGDFDRNVPRICGVCGDRATGFHFNAMTCEGCKGFFRRSMKRKALFTCPFNGDCRITKDNRRHCQACRLKRCVDIGMMKEFILTDEEVQRKREMILKRKEEEALKDSLRPKLSEEQQRIIAILLDAHHKTYDPTYSDFCQFRPPVRVNDGGGSHPSRPNSRHTPSFSGDSSSSCSDHCITSSDMMDSSSFSNLDLSEEDSDDPSVTLELSQLSMLPHLADLVSYSIQKVIGFAKMIPGFRDLTSEDQIVLLKSSAIEVIMLRSNESFTMDDMSWTCGNQDYKYRVSDVTKAGHSLELIEPLIKFQVGLKKLNLHEEEHVLLMAICIVSPDRPGVQDAALIEAIQDRLSNTLQTYIRCRHPPPGSHLLYAKMIQKLADLRSLNEEHSKQYRCLSFQPECSMKLTPLVLEVFGNEIS |
| 6315 | sp|Q39249|VDE\_ARATH | MAVATHCFTSPCHDRIRFFSSDDGIGRLGITRKRINGTFLLKILPPIQSADLRTTGGRSSRPLSAFRSGFSKGIFDIVPLPSKNELKELTAPLLLKLVGVLACAFLIVPSADAVDALKTCACLLKGCRIELAKCIANPACAANVACLQTCNNRPDETECQIKCGDLFENSVVDEFNECAVSRKKCVPRKSDLGEFPAPDPSVLVQNFNISDFNGKWYITSGLNPTFDAFDCQLHEFHTEGDNKLVGNISWRIKTLDSGFFTRSAVQKFVQDPNQPGVLYNHDNEYLHYQDDWYILSSKIENKPEDYIFVYYRGRNDAWDGYGGAVVYTRSSVLPNSIIPELEKAAKSIGRDFSTFIRTDNTCGPEPALVERIEKTVEEGERIIVKEVEEIEEEVEKEVEKVGRTEMTLFQRLAEGFNELKQDEENFVRELSKEEMEFLDEIKMEASEVEKLFGKALPIRKVR |
| 6316 | sp|P23763|VAMP1\_HUMAN | MSAPAQPPAEGTEGTAPGGGPPGPPPNMTSNRRLQQTQAQVEEVVDIIRVNVDKVLERDQKLSELDDRADALQAGASQFESSAAKLKRKYWWKNCKMMIMLGAICAIIVVVIVIYFFT |
| 6317 | sp|Q8R0A6|VTM2A\_MOUSE | MMGIFLASVGFMFFSVLYVQQGLSSQAKFTELPRNVTATEGQNVEMSCAFQSGSASVYLEIQWWFLRGPEDLEQGTEAAGSQVELLPDRDPDNDGTKISTVKVQGNDISHKLQISKVRKKDEGLYECRVTDANYGELQEHKAQAYLKVNANSHARRMQAFEASPMWLQDTKPRKNASSVVPSSVHNSANQRMHSTSSPQAVAKIPKQSPQSGARIATSHGLSVLLLVCGFVKGALL |
| 6318 | sp|O00308|WWP2\_HUMAN | MASASSSRAGVALPFEKSQLTLKVVSAKPKVHNRQPRINSYVEVAVDGLPSETKKTGKRIGSSELLWNEIIILNVTAQSHLDLKVWSCHTLRNELLGTASVNLSNVLKNNGGKMENMQLTLNLQTENKGSVVSGGELTIFLDGPTVDLGNVPNGSALTDGSQLPSRDSSGTAVAPENRHQPPSTNCFGGRSRTHRHSGASARTTPATGEQSPGARSRHRQPVKNSGHSGLANGTVNDEPTTATDPEEPSVVGVTSPPAAPLSVTPNPNTTSLPAPATPAEGEEPSTSGTQQLPAAAQAPDALPAGWEQRELPNGRVYYVDHNTKTTTWERPLPPGWEKRTDPRGRFYYVDHNTRTTTWQRPTAEYVRNYEQWQSQRNQLQGAMQHFSQRFLYQSSSASTDHDPLGPLPPGWEKRQDNGRVYYVNHNTRTTQWEDPRTQGMIQEPALPPGWEMKYTSEGVRYFVDHNTRTTTFKDPRPGFESGTKQGSPGAYDRSFRWKYHQFRFLCHSNALPSHVKISVSRQTLFEDSFQQIMNMKPYDLRRRLYIIMRGEEGLDYGGIAREWFFLLSHEVLNPMYCLFEYAGKNNYCLQINPASSINPDHLTYFRFIGRFIAMALYHGKFIDTGFTLPFYKRMLNKRPTLKDLESIDPEFYNSIVWIKENNLEECGLELYFIQDMEILGKVTTHELKEGGESIRVTEENKEEYIMLLTDWRFTRGVEEQTKAFLDGFNEVAPLEWLRYFDEKELELMLCGMQEIDMSDWQKSTIYRHYTKNSKQIQWFWQVVKEMDNEKRIRLLQFVTGTCRLPVGGFAELIGSNGPQKFCIDKVGKETWLPRSHTCFNRLDLPPYKSYEQLREKLLYAIEETEGFGQE |
| 6319 | sp|Q6P5F9|XPO1\_MOUSE | MPAIMTMLADHAARQLLDFSQKLDINLLDNVVNCLYHGEGAQQRMAQEVLTHLKEHPDAWTRVDTILEFSQNMNTKYYGLQILENVIKTRWKILPRNQCEGIKKYVVGLIIKTSSDPTCVEKEKVYIGKLNMILVQILKQEWPKHWPTFISDIVGASRTSESLCQNNMVILKLLSEEVFDFSSGQITQVKAKHLKDSMCNEFSQIFQLCQFVMENSQNAPLVHATLETLLRFLNWIPLGYIFETKLISTLIYKFLNVPMFRNVSLKCLTEIAGVSVSQYEEQFETLFTLTMMQLKQMLPLNTNIRLAYSNGKDDEQNFIQNLSLFLCTFLKEHGQLLEKRLNLREALMEALHYMLLVSEVEETEIFKICLEYWNHLAAELYRESPFSTSASPLLSGSQHFDIPPRRQLYLTVLSKVRLLMVSRMAKPEEVLVVENDQGEVVREFMKDTDSINLYKNMRETLVYLTHLDYVDTEIIMTKKLQNQVNGTEWSWKNLNTLCWAIGSISGAMHEEDEKRFLVTVIKDLLGLCEQKRGKDNKAIIASNIMYIVGQYPRFLRAHWKFLKTVVNKLFEFMHETHDGVQDMACDTFIKIAQKCRRHFVQVQVGEVMPFIDEILNNINTIICDLQPQQVHTFYEAVGYMIGAQTDQTVQEHLIEKYMLLPNQVWDSIIQQATKNVDILKDPETVKQLGSILKTNVRACKAVGHPFVIQLGRIYLDMLNVYKCLSENISAAIQANGEMVTKQPLIRSMRTVKRETLKLISGWVSRSNDPQMVAENFVPPLLDAVLIDYQRNVPAAREPEVLSTMAIIVNKLGGHITAEIPQIFDAVFECTLNMINKDFEEYPEHRTNFFLLLQAVNSHCFPAFLAIPPAQFKLVLDSIIWAFKHTMRNVADTGLQILFTLLQNVAQEEAAAQSFYQTYFCDILQHIFSVVTDTSHTAGLTMHASILAYMFNLVEEGKISTPLNPGNPVNNQMFIQDYVANLLKSAFPHLQDAQVKLFVTGLFSLNQDIPAFKEHLRDFLVQIKEFAGEDTSDLFLEERETALRQAQEEKHKLQMSVPGILNPHEIPEEMCD |
| 6320 | sp|O42250|VSX1\_DANRE | MTGREEATDEKPKVKLYPSFGIDKSRLNGSGFRSKGFAITDLLGLESELQPHQSGPGAGPNGEGQSAAVGGFSFPGGSLPLGLGFLCSLAAQQPPGAPCFLPSHIPLLQSRTESHFMQNLEQQRDVYSDDDCLSGDRNDGKNSGNSQKRKKRRHRTVFTSHQLEELEKAFNEAHYPDVYAREMLAMKTELPEDRIQVWFQNRRAKWRKREKCWGRSSVMAEYGLYGAMVRHSIPLPESIINSAKSGMMGSCAPWLLGEPAGMHKKSMEIVKKAPGTPESTHSDTYSEEHKGKDSDTTWSSGANGADDSEDMAIDLSSTSKQENKSTLKRSPPRTENSSDSENES |
| 6321 | sp|P28026|WNT8\_XENLA | MQNTTLFILATLLIFCPFFTASAWSVNNFLMTGPKAYLTYSASVAVGAQNGIEECKYQFAWERWNCPESTLQLATHNGLRSATRETSFVHAISSAGVMYTLTRNCSMGDFDNCGCDDSRNGRIGGRGWVWGGCSDNAEFGERISKLFVDGLETGQDARALMNLHNNEAGRLAVKETMKRTCKCHGISGSCSIQTCWLQLAEFRDIGNHLKIKHDQALKLEMDKRKMRSGNSADNRGAIADAFSSVAGSELIFLEDSPDYCLKNISLGLQGTEGRECLQSGKNLSQWERRSCKRLCTDCGLRVEEKKTEIISSCNCKFHWCCTVKCEQCKQVVIKHFCARRERDSNMLNTKRKNRGHRR |
| 6322 | sp|Q6P689|WLS\_RAT | MAGAIIENMSTKKLCIVGGILLVFQIVAFLVGGLIAPAPTTAVSYVAAKCVDVRKNHHKTRWLMPWGPNKCNKINDFEEAIPREIEANDIVFSVHIPLPSMEMSPWFQFMLFILQIDIAFKLNNQIRENAEVSMDVSLGYRDDMFSEWTEMAHERVPRKLRCTFTSPKTPEHEGRHYECDVLPFMEIGSVAHKYYLLNIRLPVNEKKKINVGIGEIKDIRLVGIHQNGGFTKVWFAMKTFLTPSIFIIMVWYWRRITMMSRPPVLLEKVIFALGISMTFINIPVEWFSIGFDWTWMLLFGDIRQGIFYAMLLSFWIIFCGEHMMDQHERNHIAGYWKQVGPIAVGSFCLFIFDMCERGVQLTNPFYSIWTTDVGTELAMAFIIVAGICLCLYFLFLCFMVFQVFRNISGKQSSLPAMSKVRRLHYEGLIFRFKFLMLITLACAAMTVIFFIVSQVTEGHWKWGGVTVQVSSAFFTGIYGMWNLYVFALMFLYAPSHKNYGEDQSNGDLGVHSGEELQLTTTITHVDGPTEIYKLTRKEAQE |
| 6323 | sp|K4LLQ2|VSP\_BOTBA | APKELQVSYAHKSSELVIGGDECDINEHPFLAFLYSRGNFCGLTLINQEWVLTAAHCDRRFMPIYLGIHTLSVPNDDEVIRYPKDNFICPNNNIIDEKDKDIMLIRLNRPVKNSEHIAPISLPSNLPSVGSVCRVMGWGSITAPNDTFPDVPHCANINLFNDTVCHGAYKRFPVKSRTLCAGVLQGGKDKCMGDSGGPLICNGPFHGILFWGDDPCALPRKPALYTKGFEYPPWIQSIIAKNTTETCPP |
| 6324 | sp|Q99986|VRK1\_HUMAN | MPRVKAAQAGRQSSAKRHLAEQFAVGEIITDMAKKEWKVGLPIGQGGFGCIYLADMNSSESVGSDAPCVVKVEPSDNGPLFTELKFYQRAAKPEQIQKWIRTRKLKYLGVPKYWGSGLHDKNGKSYRFMIMDRFGSDLQKIYEANAKRFSRKTVLQLSLRILDILEYIHEHEYVHGDIKASNLLLNYKNPDQVYLVDYGLAYRYCPEGVHKEYKEDPKRCHDGTIEFTSIDAHNGVAPSRRGDLEILGYCMIQWLTGHLPWEDNLKDPKYVRDSKIRYRENIASLMDKCFPEKNKPGEIAKYMETVKLLDYTEKPLYENLRDILLQGLKAIGSKDDGKLDLSVVENGGLKAKTITKKRKKEIEESKEPGVEDTEWSNTQTEEAIQTRSRTRKRVQK |
| 6325 | sp|P48614|WN10B\_MOUSE | MLEEPRSRPPPLGLAGLLFLALFSRALSNEILGLKLPGEPPLTANTVCLTLSGLSKRQLGLCLRSPDVTASALQGLHIAVHECQHQLRDQRWNCSALEGGGRLPHHSAILKRGFRESAFSFSMLAAGVMHAVATACSLGKLVSCGCGWKGSGEQDRLRAKLLQLQALSRGKTFPISQPSPVPGSVPSPGPQDTWEWGGCNHDMDFGEKFSRDFLDSREAPRDIQARMRIHNNRVGRQVVTENLKRKCKCHGTSGSCQFKTCWRAAPEFRAIGAALRERLSRAIFIDTHNRNSGAFQPRLRPRRLSGELVYFEKSPDFCERDPTLGSPGTRGRACNKTSRLLDGCGSLCCGRGHNVLRQTRVERCHCRFHWCCYVLCDECKVTEWVNVCK |
| 6326 | sp|Q9SB92|WUS\_ARATH | MEPPQHQHHHHQADQESGNNNNNKSGSGGYTCRQTSTRWTPTTEQIKILKELYYNNAIRSPTADQIQKITARLRQFGKIEGKNVFYWFQNHKARERQKKRFNGTNMTTPSSSPNSVMMAANDHYHPLLHHHHGVPMQRPANSVNVKLNQDHHLYHHNKPYPSFNNGNLNHASSGTECGVVNASNGYMSSHVYGSMEQDCSMNYNNVGGGWANMDHHYSSAPYNFFDRAKPLFGLEGHQEEEECGGDAYLEHRRTLPLFPMHGEDHINGGSGAIWKYGQSEVRPCASLELRLN |
| 6327 | sp|F4I9J7|Y14\_ARATH | MANIESEAVDFEPEEDDLMDEEGTAIDGADVSPRAGHPRLKSAIAGANGESAKKTKGRGFREEKDSDRQRRLSSRDFESLGSDGRPGPQRSVEGWIILVSGVHEETQEEDITNAFGDFGEIKNLNLNLDRRSGYVKGYALIEYEKKEEAQSAISAMNGAELLTQNVSVDWAFSSGPSGGESYRRKNSRYGRSQRSRSPRRRY |
| 6328 | sp|P59326|YTHD1\_MOUSE | MSATSVDPQRTKGQDNKVQNGSLHQKDAVHDNDFEPYLSGQSNPSNSYPSMSDPYLSSYYPPSIGFPYSLSEAPWSTAGDPPIPYLTTYGQLSNGDHHFMHDAVFGQPGGLGNNIYQHRFNFFPENPAFSAWGTSGSQGQQTQSSAYGSSYTYPPSSLGGTVVDGQTGFHSDSLNKAPGMNSLEQGMVGLKIGDVTTSAVKTVGSVVNSVALTGVLSGNGGTNVNMPVSKPTSWAAIASKPAKPQPKMKTKSGPIVGGALPPPPIKHNMDIGTWDNKGPAPKASAPQQTPSPQAAPQPQQVAQPLPVQPPPLVQPQYQSPQQPLQPRWVAPRNRNAAFGQSGGANSDSNSVGNAQPTSAPSVESHPVLEKLKAAHSYNPKEFDWNLKSGRVFIIKSYSEDDIHRSIKYSIWCSTEHGNKRLDGAFRSMSSKGPVYLLFSVNGSGHFCGVAEMKSPVDYGTSAGVWSQDKWKGKFDVKWIFVKDVPNNQLRHIRLENNDNKPVTNSRDTQEVPLEKAKQVLKIIASYKHTTSIFDDFSHYEKRQEEEEVVRKERQNRNKQ |
| 6329 | sp|Q9H7X3|ZN696\_HUMAN | MEPGGEPTGAKESSTLMESLAAVKAAFLAQAPSGSRSAEVQAAQSTEPAAEAGAPEGEGHRGGPPRALGSLGLCENQEARERPGGSPRGPVTSEKTGGQSGLESDVPPNAGPGAEGGGSWKGRPFPCGACGRSFKCSSDAAKHRSIHSGEKPYECSDCGKAFIHSSHVVRHQRAHSGERPYACAECGKAFGQSFNLLRHQRVHTGEKPYACADCGKAFGQRSDAAKHRRTHTGERLYACGECGKRFLHSSNVVRHRRTHHGENPYECRECGQAFSQSSNLLQHQRVHTGERPFACQDCGRAFSRSSFLREHRRIHTGEKPHQCGHCGRAFRALSGFFRHQRLHTGEKPFRCTECGRAFRLSFHLIQHRRVHGAE |
| 6330 | sp|Q96DT7|ZBT10\_HUMAN | MSFSEMNRRTLAFRGGGLVTASGGGSTNNNAGGEASAWPPQPQPRQPPPPAPPALQPPNGRGADEEVELEGLEPQDLEASAGPAAGAAEEAKELLLPQDAGGPTSLGGGAGGPLLAERNRRTLAFRGGGGGGLGNNGSSRGRPETSVWPLRHFNGRGPATVDLELDALEGKELMQDGASLSDSTEDEEEGASLGDGSGAEGGSCSSSRRSGGDGGDEVEGSGVGAGEGETVQHFPLARPKSLMQKLQCSFQTSWLKDFPWLRYSKDTGLMSCGWCQKTPADGGSVDLPPVGHDELSRGTRNYKKTLLLRHHVSTEHKLHEANAQESEIPSEEGYCDFNSRPNENSYCYQLLRQLNEQRKKGILCDVSIVVSGKIFKAHKNILVAGSRFFKTLYCFSNKESPNQNNTTHLDIAAVQGFSVILDFLYSGNLVLTSQNAIEVMTVASYLQMSEVVQTCRNFIKDALNISIKSEAPESVVVDYNNRKPVNRDGLSSSRDQKIASFWATRNLTNLASNVKIENDGCNVDEGQIENYQMNDSSWVQDGSPEMAENESEGQTKVFIWNNMGSQGIQETGKTRRKNQTTKRFIYNIPPNNETNLEDCSVMQPPVAYPEENTLLIKEEPDLDGALLSGPDGDRNVNANLLAEAGTSQDGGDAGTSHDFKYGLMPGPSNDFKYGLIPGTSNDFKYGLIPGASNDFKYGLLPESWPKQETWENGESSLIMNKLKCPHCSYVAKYRRTLKRHLLIHTGVRSFSCDICGKLFTRREHVKRHSLVHKKDKKYKCMVCKKIFMLAASVGIRHGSRRYGVCVDCADKSQPGGQEGVDQGQDTEFPRDEEYEENEVGEADEELVDDGEDQNDPSRWDESGEVCMSLDD |
| 6331 | sp|Q9UKY1|ZHX1\_HUMAN | MASRRKSTTPCMVLASEQDPDLELISDLDEGPPVLTPVENTRAESISSDEEVHESVDSDNQQNKKVEGGYECKYCTFQTPDLNMFTFHVDSEHPNVVLNSSYVCVECNFLTKRYDALSEHNLKYHPGEENFKLTMVKRNNQTIFEQTINDLTFDGSFVKEENAEQAESTEVSSSGISISKTPIMKMMKNKVENKRIAVHHNSVEDVPEEKENEIKPDREEIVENPSSSASESNTSTSIVNRIHPSTASTVVTPAAVLPGLAQVITAVSAQQNSNLIPKVLIPVNSIPTYNAALDNNPLLLNTYNKFPYPTMSEITVLSAQAKYTEEQIKIWFSAQRLKHGVSWTPEEVEEARRKQFNGTVHTVPQTITVIPTHISTGSNGLPSILQTCQIVGQPGLVLTQVAGTNTLPVTAPIALTVAGVPSQNNIQKSQVPAAQPTAETKPATAAVPTSQSVKHETALVNPDSFGIRAKKTKEQLAELKVSYLKNQFPHDSEIIRLMKITGLTKGEIKKWFSDTRYNQRNSKSNQCLHLNNDSSTTIIIDSSDETTESPTVGTAQPKQSWNPFPDFTPQKFKEKTAEQLRVLQASFLNSSVLTDEELNRLRAQTKLTRREIDAWFTEKKKSKALKEEKMEIDESNAGSSKEEAGETSPADESGAPKSGSTGKICKKTPEQLHMLKSAFVRTQWPSPEEYDKLAKESGLARTDIVSWFGDTRYAWKNGNLKWYYYYQSANSSSMNGLSSLRKRGRGRPKGRGRGRPRGRPRGSKRINNWDRGPSLIKFKTGTAILKDYYLKHKFLNEQDLDELVNKSHMGYEQVREWFAERQRRSELGIELFEENEEEDEVIDDQEEDEEETDDSDTWEPPRHVKRKLSKSDD |
| 6332 | sp|Q7XA86|ZDH11\_ARATH | MGVCCPFLQPWDRARDQCLLNLPCLSDPVRRSSLLLKLALVALHLVFIGFLFLFDAEFIEKTKRDPWYMGCYILLFSATLLQYFVTSGSSPGYVVDAMRDVCEASAMYRNPSTTSIQHASRKSESVVVNVEGGSASCPRRPPTPWGKLVLDLYPPGTSIRNLTCGYCHVEQPPRTKHCHDCDRCVLQFDHHCVWLGTCIGQKNHSKFWWYICEETTLCIWTLIMYVDYLSNVAKPWWKNAIIILLLVILAISLIFVLLLLIFHSYLILTNQSTYELVRRRRIPYMRNIPGRVHPFSRGIRRNLYNVCCGNYNLDSLPTAFELEDRSRPYTCIDMLKCRCC |
| 6333 | sp|P15822|ZEP1\_HUMAN | MPRTKQIHPRNLRDKIEEAQKELNGAEVSKKEILQAGVKGTSESLKGVKRKKIVAENHLKKIPKSPLRNPLQAKHKQNTEESSFAVLHSASESHKKQNYIPVKNGKQFTKQNGETPGIIAEASKSEESVSPKKPLFLQQPSELRRWRSEGADPAKFSDLDEQCDSSSLSSKTRTDNSECISSHCGTTSPSYTNTAFDVLLKAMEPELSTLSQKGSPCAIKTEKLRPNKTARSPPKLKNSSMDAPNQTSQELVAESQSSCTSYTVHMSAAQKNEQGAMQSASHLYHQHEHFVPKSNQHNQQLPGCSGFTGSLTNLQNQENAKLEQVYNIAVTSSVGLTSPSSRSQVTPQNQQMDSASPLSISPANSTQSPPMPIYNSTHVASVVNQSVEQMCNLLLKDQKPKKQGKYICEYCNRACAKPSVLLKHIRSHTGERPYPCVTCGFSFKTKSNLYKHKKSHAHTIKLGLVLQPDAGGLFLSHESPKALSIHSDVEDSGESEEEGATDERQHDLGAMELQPVHIIKRMSNAETLLKSSFTPSSPENVIGDFLLQDRSAESQAVTELPKVVVHHVTVSPLRTDSPKAMDPKPELSSAQKQKDLQVTNVQPLSANMSQGGVSRLETNENSHQKGDMNPLEGKQDSHVGTVHAQLQRQQATDYSQEQQGKLLSPRSLGSTDSGYFSRSESADQTVSPPTPFARRLPSTEQDSGRSNGPSAALVTTSTPSALPTGEKALLLPGQMRPPLATKTLEERISKLISDNEALVDDKQLDSVKPRRTSLSRRGSIDSPKSYIFKDSFQFDLKPVGRRTSSSSDIPKSPFTPTEKSKQVFLLSVPSLDCLPITRSNSMPTTGYSAVPANIIPPPHPLRGSQSFDDKIGTFYDDVFVSGPNAPVPQSGHPRTLVRQAAIEDSSANESHVLGTGQSLDESHQGCHAAGEAMSVRSKALAQGPHIEKKKSHQGRGTMFECETCRNRYRKLENFENHKKFYCSELHGPKTKVAMREPEHSPVPGGLQPQILHYRVAGSSGIWEQTPQIRKRRKMKSVGDDEELQQNESGTSPKSSEGLQFQNALGCNPSLPKHNVTIRSDQQHKNIQLQNSHIHLVARGPEQTMDPKLSTIMEQQISSAAQDKIELQRHGTGISVIQHTNSLSRPNSFDKPEPFERASPVSFQELNRTGKSGSLKVIGISQEESHPSRDGSHPHQLALSDALRGELQESSRKSPSERHVLGQPSRLVRQHNIQVPEILVTEEPDRDLEAQCHDQEKSEKFSWPQRSETLSKLPTEKLPPKKKRLRLAEIEHSSTESSFDSTLSRSLSRESSLSHTSSFSASLDIEDVSKTEASPKIDFLNKAEFLMIPAGLNTLNVPGCHREMRRTASEQINCTQTSMEVSDLRSKSFDCGSITPPQTTPLTELQPPSSPSRVGVTGHVPLLERRRGPLVRQISLNIAPDSHLSPVHPTSFQNTALPSVNAVPYQGPQLTSTSLAEFSANTLHSQTQVKDLQAETSNSSSTNVFPVQQLCDINLLNQIHAPPSHQSTQLSLQVSTQGSKPDKNSVLSGSSKSEDCFAPKYQLHCQVFTSGPSCSSNPVHSLPNQVISDPVGTDHCVTSATLPTKLIDSMSNSHPLLPPELRPLGSQVQKVPSSFMLPIRLQSSVPAYCFATLTSLPQILVTQDLPNQPICQTNHSVVPISEEQNSVPTLQKGHQNALPNPEKEFLCENVFSEMSQNSSLSESLPITQKISVGRLSPQQESSASSKRMLSPANSLDIAMEKHQKRAKDENGAVCATDVRPLEALSSRVNEASKQKKPILVRQVCTTEPLDGVMLEKDVFSQPEISNEAVNLTNVLPADNSSTGCSKFVVIEPISELQEFENIKSSTSLTLTVRSSPAPSENTHISPLKCTDNNQERKSPGVKNQGDKVNIQEQSQQPVTSLSLFNIKDTQQLAFPSLKTTTNFTWCYLLRQKSLHLPQKDQKTSAYTDWTVSASNPNPLGLPTKVALALLNSKQNTGKSLYCQAITTHSKSDLLVYSSKWKSSLSKRALGNQKSTVVEFSNKDASEINSEQDKENSLIKSEPRRIKIFDGGYKSNEEYVYVRGRGRGKYICEECGIRCKKPSMLKKHIRTHTDVRPYHCTYCNFSFKTKGNLTKHMKSKAHSKKCVDLGVSVGLIDEQDTEESDEKQRFSYERSGYDLEESDGPDEDDNENEDDDEDSQAESVLSATPSVTASPQHLPSRSSLQDPVSTDEDVRITDCFSGVHTDPMDVLPRALLTRMTVLSTAQSDYNRKTLSPGKARQRAARDENDTIPSVDTSRSPCHQMSVDYPESEEILRSSMAGKAVAITQSPSSVRLPPAAAEHSPQTAAGMPSVASPHPDPQEQKQQITLQPTPGLPSPHTHLFSHLPLHSQQQSRTPYNMVPVGGIHVVPAGLTYSTFVPLQAGPVQLTIPAVSVVHRTLGTHRNTVTEVSGTTNPAGVAELSSVVPCIPIGQIRVPGLQNLSTPGLQSLPSLSMETVNIVGLANTNMAPQVHPPGLALNAVGLQVLTANPSSQSSPAPQAHIPGLQILNIALPTLIPSVSQVAVDAQGAPEMPASQSKACETQPKQTSVASANQVSRTESPQGLPTVQRENAKKVLNPPAPAGDHARLDGLSKMDTEKAASANHVKPKPELTSIQGQPASTSQPLLKAHSEVFTKPSGQQTLSPDRQVPRPTALPRRQPTVHFSDVSSDDDEDRLVIAT |
| 6334 | sp|Q12024|YTM1\_YEAST | MTEDKSQVKIRFFTREKDELLHVQDTPMYAPISLKRYGLSEIVNHLLGSEKPVPFDFLIEGELLRTSLHDYLTKKGLSSEASLNVEYTRAILPPSYLNSFSNEDWVSSLDVGDGSKHIISGSYDGIVRTWDLSGNVQKQYSGHSGPIRAVKYISNTRLVSAGNDRTLRLWKTKNDDLKLTSQQQAQEDDDDEVNIEDGKTLAILEGHKAPVVSIDVSDNSRILSASYDNSIGFWSTIYKEMTVVDPLEDINNPNNKISTAARKRRKLTMKDGTIRRRAPLSLLESHTAPVEQVIFDSTDNTVGYSVSQDHTIKTWDLVTARCIDTRTTSYSLLSIAQLSTLNLLACGSSARHITLHDPRVGASSKVTQQQLIGHKNFVSSLDTCPENEYILCSGSHDGTVKVWDVRSTSPMYTITREDKSVQKGVNDKVFAVKWAEKVGIISAGQDKKIQINKGDNIFKN |
| 6335 | sp|Q6PJT7|ZC3HE\_HUMAN | MEIGTEISRKIRSAIKGKLQELGAYVDEELPDYIMVMVANKKSQDQMTEDLSLFLGNNTIRFTVWLHGVLDKLRSVTTEPSSLKSSDTNIFDSNVPSNKSNFSRGDERRHEAAVPPLAIPSARPEKRDSRVSTSSQESKTTNVRQTYDDGAATRLMSTVKPLREPAPSEDVIDIKPEPDDLIDEDLNFVQENPLSQKKPTVTLTYGSSRPSIEIYRPPASRNADSGVHLNRLQFQQQQNSIHAAKQLDMQSSWVYETGRLCEPEVLNSLEETYSPFFRNNSEKMSMEDENFRKRKLPVVSSVVKVKKFNHDGEEEEEDDDYGSRTGSISSSVSVPAKPERRPSLPPSKQANKNLILKAISEAQESVTKTTNYSTVPQKQTLPVAPRTRTSQEELLAEVVQGQSRTPRISPPIKEEETKGDSVEKNQGTQQRQLLSRLQIDPVMAETLQMSQDYYDMESMVHADTRSFILKKPKLSEEVVVAPNQESGMKTADSLRVLSGHLMQTRDLVQPDKPASPKFIVTLDGVPSPPGYMSDQEEDMCFEGMKPVNQTAASNKGLRGLLHPQQLHLLSRQLEDPNGSFSNAEMSELSVAQKPEKLLERCKYWPACKNGDECAYHHPISPCKAFPNCKFAEKCLFVHPNCKYDAKCTKPDCPFTHVSRRIPVLSPKPAVAPPAPPSSSQLCRYFPACKKMECPFYHPKHCRFNTQCTRPDCTFYHPTINVPPRHALKWIRPQTSE |
| 6336 | sp|P46953|3HAO\_RAT | MERCVRVKSWVEENRASFQPPVCNKLMHREQLKIMFVGGPNTRKDYHIEEGEEVFYQLEGDMVLRVLEQGEHRDVVIRQGEIFLLPARVPHSPQRFANTMGLVIERRRMETELDGLRYYVGDTEDVLFEKWFHCKDLGTQLAPIIQEFFHSEQYRTGKPNPDQLLKEPPFPLSTRSVMEPMSLKAWLESHSRELQAGTSLSLFGDSYETQVIAHGQGSSKGPRQDVDVWLWQLEGSSKVTMGGQCVALAPDDSLLVPAGFSYMWERAQGSVALSVTQDPACKKPLG |
| 6337 | sp|Q9Z173|AGRL3\_RAT | MCPPQLFILMMLLAPVVHGGKHNERHPALAAPLRHAEHSPGGPLPPRHLLQQPAAERSTAHRGQGPRGTARGVRGPGAPGAQIAAQAFSRAPIPMAVVRRELSCESYPIELRCPGTDVIMIESANYGRTDDKICDSDPAQMENIRCYLPDAYKIMSQRCNNRTQCAVVAGPDVFPDPCPGTYKYLEVQYECVPYKVEQKVFLCPGLLKGVYQSEHLFESDHQSGAWCKDPLQASDKIYYMPWTPYRTDTLTEYSSKDDFIAGRPTTTYKLPHRVDGTGFVVYDGALFFNKERTRNIVKFDLRTRIKSGEAIIANANYHDTSPYRWGGKSDIDLAVDENGLWVIYATEQNNGKIVISQLNPYTLRIEGTWDTAYDKRSASNAFMICGILYVVKSVYEDDDNEATGNKIDYIYNTDQSKDSLVDVPFPNSYQYIAAVDYNPRDNLLYVWNNYHVVKYSLDFGPLDSRSGPVHHGQVSYISPPIHLDSDLERPPVRGISTTGPLGMGSTTTSTTLRTTTWNLGRSTTPSLPGRRNRSTSTPSPAIEVLDVTTHLPSAASQIPAMEESCEAVEAREIMWFKTRQGQVAKQSCPAGTIGVSTYLCLAPDGIWDPQGPDLSNCSSPWVNHITQKLKSGETAANIARELAEQTRNHLNAGDITYSVRAMDQLVGLLDVQLRNLTPGGKDSAARSLNKLQKRERSCRAYVQAMVETVNNLLQPQALNAWRDLTTSDQLRAATMLLDTVEESAFVLADNLLKTDIVRENTDNIQLEVARLSTEGNLEDLKFPENTGHGSTIQLSANTLKQNGRNGEIRVAFVLYNNLGPYLSTENASMKLGTEAMSTNHSVIVNSPVITAAINKEFSNKVYLADPVVFTVKHIKQSEENFNPNCSFWSYSKRTMTGYWSTQGCRLLTTNKTHTTCSCNHLTNFAVLMAHVEVKHSDAVHDLLLDVITWVGILLSLVCLLICIFTFCFFRGLQSDRNTIHKNLCISLFVAELLFLIGINRTDQPIACAVFAALLHFFFLAAFTWMFLEGVQLYIMLVEVFESEHSRRKYFYLVGYGMPALIVAVSAAVDYRSYGTDKVCWLRLDTYFIWSFIGPATLIIMLNVIFLGIALYKMFHHTAILKPESGCLDNINYEDNRPFIKSWVIGAIALLCLLGLTWAFGLMYINESTVIMAYLFTIFNSLQGMFIFIFHCVLQKKVRKEYGKCLRTHCCSGKSTESSIGSGKTSGSRTPGRYSTGSQSRIRRMWNDTVRKQSESSFITGDINSSASLNRGSYLPCIQACVTYLEGLLNNARDTSVMDTLPLNGNHGNSYSIAGGEYLSNCVQIIDRGYNHNETALEKKILKELTSNYIPSYLNNHERSSEQNRNMMNKLVDNLGSGSEDDAIVLDDAASFNHEESLGLELIHEESDAPLLPPRVYSTDNHQPHHYSRRRLPQDHSESFFPLLTDEHTEDPQSPHRDSLYTSMPALAGVPAADSVTTSTQTEAAAAKGGDAEDVYYKSMPNLGSRNHVHPLHAYYQLGRGSSDGFIVPPNKDGASPEGTSKGPAHLVTSL |
| 6338 | sp|Q54RP0|AGTA\_DICDI | MEKKVEYIKENDKIVLMCNYGFRDMTLNLLKCFEKLSIDKSRYILYCMDDKAYQFFAEFKGIECQRFSRDDIINSSTSSTQLFHDNNTNDNKGIYSENAESYGDIGFRAICNEKPLVVLDVLKKGYNVLWTDTDIVWKRDPFIHFYQDINQENQFTNDDDIDLYVQQDDDDICAGFYFIRSNQRTIKFIQDSINFLNPCIDDQIAMRLFLKSQGINIKSKNILLSLSENDKKDKIRYRLLDKKLFPNGTNYFNLKITQRDNITPFIIHNNCIIGHRSKKDRFIEYGLWYINDDEIDINSNINNDDENNKEIKLFKNVLKNHTDIITSINSSDDGKLFTTSIDKSIKIWKFENTSGNDTDNGIFKVLKSKYIHKRGGIWSTFIFSSNNNNNNDYGFENLLTSSHDKTIQYWDNNLQVIQTFIGHTGIINQLIVIPNSSYFFTCSDDNTIRQFDLNNINFKRVFIGHNGWVSSIAINKNLNTLYSCSNDGTIRFWDINSGRCLNIIKGNQGGWIRKIIYNDNLNQLISGGNDGTIKIWSCDNLNNFNDNQYLLKINTNENSSINDLQFDSDTNLIYCAFENGSLKSFKLTSNNNNNNNNNNNNNNNTINYSLDKVYQGHLNSSINCIHISKSLNLLFSGGFDKQIKSWDL |
| 6339 | sp|Q9LKL2|APRR1\_ARATH | MDLNGECKGGDGFIDRSRVRILLCDNDSTSLGEVFTLLSECSYQVTAVKSARQVIDALNAEGPDIDIILAEIDLPMAKGMKMLRYITRDKDLRRIPVIMMSRQDEVPVVVKCLKLGAADYLVKPLRTNELLNLWTHMWRRRRMLGLAEKNMLSYDFDLVGSDQSDPNTNSTNLFSDDTDDRSLRSTNPQRGNLSHQENEWSVATAPVHARDGGLGADGTATSSLAVTAIEPPLDHLAGSHHEPMKRNSNPAQFSSAPKKSRLKIGESSAFFTYVKSTVLRTNGQDPPLVDGNGSLHLHRGLAEKFQVVASEGINNTKQARRATPKSTVLRTNGQDPPLVNGNGSHHLHRGAAEKFQVVASEGINNTKQAHRSRGTEQYHSQGETLQNGASYPHSLERSRTLPTSMESHGRNYQEGNMNIPQVAMNRSKDSSQVDGSGFSAPNAYPYYMHGVMNQVMMQSAAMMPQYGHQIPHCQPNHPNGMTGYPYYHHPMNTSLQHSQMSLQNGQMSMVHHSWSPAGNPPSNEVRVNKLDRREEALLKFRRKRNQRCFDKKIRYVNRKRLAERRPRVKGQFVRKMNGVNVDLNGQPDSADYDDEEEEEEEEEEENRDSSPQDDALGT |
| 6340 | sp|Q9UJX4|APC5\_HUMAN | MASVHESLYFNPMMTNGVVHANVFGIKDWVTPYKIAVLVLLNEMSRTGEGAVSLMERRRLNQLLLPLLQGPDITLSKLYKLIEESCPQLANSVQIRIKLMAEGELKDMEQFFDDLSDSFSGTEPEVHKTSVVGLFLRHMILAYSKLSFSQVFKLYTALQQYFQNGEKKTVEDADMELTSRDEGERKMEKEELDVSVREEEVSCSGPLSQKQAEFFLSQQASLLKNDETKALTPASLQKELNNLLKFNPDFAEAHYLSYLNNLRVQDVFSSTHSLLHYFDRLILTGAESKSNGEEGYGRSLRYAALNLAALHCRFGHYQQAELALQEAIRIAQESNDHVCLQHCLSWLYVLGQKRSDSYVLLEHSVKKAVHFGLPYLASLGIQSLVQQRAFAGKTANKLMDALKDSDLLHWKHSLSELIDISIAQKTAIWRLYGRSTMALQQAQMLLSMNSLEAVNAGVQQNNTESFAVALCHLAELHAEQGCFAAASEVLKHLKERFPPNSQHAQLWMLCDQKIQFDRAMNDGKYHLADSLVTGITALNSIEGVYRKAVVLQAQNQMSEAHKLLQKLLVHCQKLKNTEMVISVLLSVAELYWRSSSPTIALPMLLQALALSKEYRLQYLASETVLNLAFAQLILGIPEQALSLLHMAIEPILADGAILDKGRAMFLVAKCQVASAASYDQPKKAEALEAAIENLNEAKNYFAKVDCKERIRDVVYFQARLYHTLGKTQERNRCAMLFRQLHQELPSHGVPLINHL |
| 6341 | sp|Q61176|ARGI1\_MOUSE | MSSKPKSLEIIGAPFSKGQPRGGVEKGPAALRKAGLLEKLKETEYDVRDHGDLAFVDVPNDSSFQIVKNPRSVGKANEELAGVVAEVQKNGRVSVVLGGDHSLAVGSISGHARVHPDLCVIWVDAHTDINTPLTTSSGNLHGQPVSFLLKELKGKFPDVPGFSWVTPCISAKDIVYIGLRDVDPGEHYIIKTLGIKYFSMTEVDKLGIGKVMEETFSYLLGRKKRPIHLSFDVDGLDPAFTPATGTPVLGGLSYREGLYITEEIYKTGLLSGLDIMEVNPTLGKTAEEVKSTVNTAVALTLACFGTQREGNHKPGTDYLKPPK |
| 6342 | sp|G5BQH5|APOA1\_HETGA | MKAVVLAVAVLFLTGSQARHFWQGDEPQTSWDRMKDFAALYVDAIQESGKDCAAQLDASALGKQLNLNLLANWNTLTSTFNNLREQLGSVTKEFWDNLGEDTVWLRQQMNKDLEEVKQKVQSYLDNFQKKVNEEVERYRDKVQPLGKELHKDAQQKLKELQEKLAPLGQDIRQRAREYVDALRTHLGSYTQGMRQGLAKRLEALKESAPVSEYQVKASKHLKTFSEKAKPALEDLRQGLMPVMESLKASFLSSIDQASKQLSAQ |
| 6343 | sp|Q655Y0|APO1\_ORYSJ | MMNPRRLPPLPSSTSSASAADDMDPRVWRRLPQPLVDRILACLPTPSFLRLRAACRRFYHLLFSSPFLHSHLLLSPHLPFFAFVVPAAGHLLLLDPTATASWSRLPLPLPPVAGGPAAFSPAAASAGLLAFLSDASGHKTLLLANPITRLLAALPISPTPRLSPTVGLAAGPTSIIAVVAGDDLVSPFAVKNISADTFVADAASVPPSGFWAPSSLLPRLSSLDPRAGMAFASGRFYCMSSSPFAVLVFDVAENVWSKVQPPMRRFLRSPALVELGGGREGAARVALVSAVEKSRLSVPRSVRLWTLRGGGGGGGGGAWTEVARMPPEVHAQFAAAEGGRGFECAAHGDYVVLAPRGPVAQAPTSALVFDSRRDEWRWAPPCPYVVVAHHGGAGAAGFRVFAYEPRLATPAIGLLDATAPVALHGMHDG |
| 6344 | sp|P56403|AQP7\_RAT | MAGSVLENIQSVLQKTWVREFLAEFLSTYVLMVFGLGSVAHMVLGERLGSYLGVNLGFGFGVTMGIHVAGGISGAHMNAAVTFTNCALGRMAWKKFPIYVLGQFLGSFLAAATTYLIFYGAINHYAGGELLVTGPKSTANIFATYLPEHMTLWRGFVDEVFVTGMLQLCIFAITDKLNSPALQGTEPLMIGILVCVLGVSLGMNTGYAINPSRDLPPRFFTFIAGWGKKVFSAGNNWWWVPVVAPLLGAYLGGIVYLGLIHAGIPPQGS |
| 6345 | sp|P31955|AREG\_MOUSE | MRTPLLPLARSVLLLLVLGSGHYAAALELNDPSSGKGESLSGDHSAGGLELSVGREVSTISEMPSGSELSTGDYDYSEEYDNEPQISGYIIDDSVRVEQVIKPKKNKTEGEKSTEKPKRKKKGGKNGKGRRNKKKKNPCTAKFQNFCIHGECRYIENLEVVTCNCHQDYFGERCGEKSMKTHSEDDKDLSKIAVVAVTIFVSAIILAAIGIGIVITVHLWKRYFREYEGETEERRRLRQENGTVHAIA |
| 6346 | sp|P19620|ANXA2\_PIG | MSTVHEILCKLSLEGDHSTPASAYGSVKAYTNFDAERDALNIETAIKTKGVDEVTIVNILTNRSNEQRQDIAFAYQRRTKKELASALKSALSGHLETVILGLLKTPAQYDASELKASMKGLGTDEDSLIEIICSRTNQELQEINRVYKEMYKTDLEKDIISDTSGDFRKLMVALAKGRRAEDGSVIDYELIDQDARDLYDAGVKRKGTDVPKWISIMTERSVCHLQKVFERYKSYSPYDMLESIKKEVKGDLENAFLNLVQCIQNKPLYFADRLYDSMKGKGTRDKVLIXIMVSRSEVDMLKIRSEFKRKYGKSLYNYIQQDTKGDYQKALLYLCGGDD |
| 6347 | sp|P04083|ANXA1\_HUMAN | MAMVSEFLKQAWFIENEEQEYVQTVKSSKGGPGSAVSPYPTFNPSSDVAALHKAIMVKGVDEATIIDILTKRNNAQRQQIKAAYLQETGKPLDETLKKALTGHLEEVVLALLKTPAQFDADELRAAMKGLGTDEDTLIEILASRTNKEIRDINRVYREELKRDLAKDITSDTSGDFRNALLSLAKGDRSEDFGVNEDLADSDARALYEAGERRKGTDVNVFNTILTTRSYPQLRRVFQKYTKYSKHDMNKVLDLELKGDIEKCLTAIVKCATSKPAFFAEKLHQAMKGVGTRHKALIRIMVSRSEIDMNDIKAFYQKMYGISLCQAILDETKGDYEKILVALCGGN |
| 6348 | sp|P32392|ARP3\_DROME | MAGRLPACVIDVGTGYSKLGFAGNKEPQFIIPSAIAIKESARVGDTNTRRITKGIEDLDFFIGDEAFDATGYSIKYPVRHGLVEDWDLMERFLEQCVFKYLRAEPEDHYFLLTEPPLNTPENREYTAEIMFETFNVPGLYIAVQAVLALAASWASRSAEERTLTGIVVDSGDGVTHVIPVAEGYVIGSCIKHIPIAGRNITSFIQSLLREREVGIPPEQSLETAKAIKEKHCYICPDIAKEFAKYDTEPGKWIRNFSGVNTVTKAPFNVDVGYERFLGPEIFFHPEFSNPDFTIPLSEIVDNVIQNCPIDVRRPLYNNIVLSGGSTMFKDFGRRLQRDIKRSVDTRLRISENLSEGRIKPKPIDVQVITHHMQRYAVWFGGSMLASTPEFYQVCHTKAAYEEYGPSICRHNPVFGTMT |
| 6349 | sp|Q8VZ52|ATG10\_ARATH | MDSAREVSDGRLTVEGFSVASRAFADKWKIHNQSFPPWSWVPLINRTLLVSKKEEGYLSLEKIIILSSLEEEIPEDESLNVATDCLEKEETVDHTILVPTMENEAHYYDFHIVYSASYKVPVLYFRGYCSGGEPLALDVIKKDVPSCSVSLLLESKWTFITQEEHPYLNRPWFKLHPCGTEDWIKLLSQSSSSSGCQMPIVLYLVSWFSVVGQVVGLRIPLEMLN |
| 6350 | sp|Q9C9M6|ASF1A\_ARATH | MSAIKITNVAVLHNPAPFVSPFQFEISYECLNSLKDDLEWKLIYVGSAEDETYDQLLESVLVGPVNVGNYRFVFQADPPDPSKIQEEDIIGVTVLLLTCSYMGQEFLRVGYYVNNDYEDEQLKEEPPTKVLIDKVQRNILSDKPRVTKFPIDFHPEEEQTAATAAPPEQSDEQQPNVNGEAQVLPDQSVEPKPEES |
| 6351 | sp|Q9D906|ATG7\_MOUSE | MGDPGLAKLQFAPFNSALDVGFWHELTQKKLNEYRLDEAPKDIKGYYYNGDSAGLPTRLTLEFSAFDMSASTPAHCCPAMGTLHNTNTLEAFKTADKKLLLEQSANEIWEAIKSGAALENPMLLNKFLLLTFADLKKYHFYYWFCCPALCLPESIPLIRGPVSLDQRLSPKQIQALEHAYDDLCRAEGVTALPYFLFKYDDDTVLVSLLKHYSDFFQGQRTKITVGVYDPCNLAQYPGWPLRNFLVLAAHRWSGSFQSVEVLCFRDRTMQGARDVTHSIIFEVKLPEMAFSPDCPKAVGWEKNQKGGMGPRMVNLSGCMDPKRLAESSVDLNLKLMCWRLVPTLDLDKVVSVKCLLLGAGTLGCNVARTLMGWGVRHVTFVDNAKISYSNPVRQPLYEFEDCLGGGKPKALAAAERLQKIFPGVNARGFNMSIPMPGHPVNFSDVTMEQARRDVEQLEQLIDNHDVIFLLMDTRESRWLPTVIAASKRKLVINAALGFDTFVVMRHGLKKPKQQGAGDLCPSHLVAPADLGSSLFANIPGYKLGCYFCNDVVAPGDSTRDRTLDQQCTVSRPGLAVIAGALAVELMVSVLQHPEGGYAIASSSDDRMNEPPTSLGLVPHQIRGFLSRFDNVLPVSLAFDKCTACSPKVLDQYEREGFTFLAKVFNSSHSFLEDLTGLTLLHQETQAAEIWDMSDEETV |
| 6352 | sp|Q06507|ATF4\_MOUSE | MTEMSFLNSEVLAGDLMSPFDQSGLGAEESLGLLDDYLEVAKHLKPHGFSSDKAGSSEWPAMDDGLASASDTGKEDAFSGTDWMLEKMDLKEFDFDALFRMDDLETMPDELLTTLDDTCDLFAPLVQETNKEPPQTVNPIGHLPESLIKVDQVAPFTFLQPFPCSPGVLSSTPEHSFSLELGSEVDISEGDRKPDSAAYITLIPPCVKEEDTPSDNDSGICMSPESYLGSPQHSPSTSRAPPDNLPSPGGSRGSPRPKPYDPPGVSLTAKVKTEKLDKKLKKMEQNKTAATRYRQKKRAEQEALTGECKELEKKNEALKEKADSLAKEIQYLKDLIEEVRKARGKKRVP |
| 6353 | sp|Q07879|ATG10\_YEAST | MIPYQEWHSQLQSLYDSQIFHNWALCQDVHLNDEKDGLLLRLIPTRQLQKNTERIENKLLNHIELYLTYSKVYNEPLLLLRIWEEKSIDGIPMTKLMLPTDIESLLDVQGKFQLGLDTIINLEGSVWYSFHPCDTSCIVGDQAEFMSTYLRRWVSIFIFSWLGYEDS |
| 6354 | sp|Q63377|AT1B3\_RAT | MTKTEKKSFHQSLAEWKLFIYNPTSGEFLGRTSKSWGLILLFYLVFYGFLAALFTFTMWVMLQTLNDEVPKYRDQIPSPGLMVFPKPPTALDYTYSMSDPHTYKKFVEDLKNFLKPYSVEEQKNLTDCPGGALFHQEGPDYSACQFPVSLLQECSGVNDSNFGYSKGQPCVLVKMNRIIELVPDGAPYITCITKEENIANIVTYPDDGLIDLKYFPYYGKKRHVGYRQPLVAVQVIFGADATKKEVTIECQIDGTRNLKNKNERDKFLGRVSFKVIAHA |
| 6355 | sp|Q5FYB1|ARSI\_HUMAN | MHTLTGFSLVSLLSFGYLSWDWAKPSFVADGPGEAGEQPSAAPPQPPHIIFILTDDQGYHDVGYHGSDIETPTLDRLAAKGVKLENYYIQPICTPSRSQLLTGRYQIHTGLQHSIIRPQQPNCLPLDQVTLPQKLQEAGYSTHMVGKWHLGFYRKECLPTRRGFDTFLGSLTGNVDYYTYDNCDGPGVCGFDLHEGENVAWGLSGQYSTMLYAQRASHILASHSPQRPLFLYVAFQAVHTPLQSPREYLYRYRTMGNVARRKYAAMVTCMDEAVRNITWALKRYGFYNNSVIIFSSDNGGQTFSGGSNWPLRGRKGTYWEGGVRGLGFVHSPLLKRKQRTSRALMHITDWYPTLVGLAGGTTSAADGLDGYDVWPAISEGRASPRTEILHNIDPLYNHAQHGSLEGGFGIWNTAVQAAIRVGEWKLLTGDPGYGDWIPPQTLATFPGSWWNLERMASVRQAVWLFNISADPYEREDLAGQRPDVVRTLLARLAEYNRTAIPVRYPAENPRAHPDFNGGAWGPWASDEEEEEEEGRARSFSRGRRKKKCKICKLRSFFRKLNTRLMSQRI |
| 6356 | sp|Q99MQ4|ASPN\_MOUSE | MKEYVMLLLLAVCSAKPFFSPSHTALKNMMLKDMEDTDDDDNDDDDNSLFPTKEPVNPFFPFDLFPTCPFGCQCYSRVVHCSDLGLTSVPNNIPFDTRMVDLQNNKIKEIKENDFKGLTSLYALILNNNKLTKIHPKTFLTTKKLRRLYLSHNQLSEIPLNLPKSLAELRIHDNKVKKIQKDTFKGMNALHVLEMSANPLENNGIEPGAFEGVTVFHIRIAEAKLTSIPKGLPPTLLELHLDFNKISTVELEDLKRYRELQRLGLGNNRITDIENGTFANIPRVREIHLEHNKLKKIPSGLQELKYLQIIFLHYNSIAKVGVNDFCPTVPKMKKSLYSAISLFNNPMKYWEIQPATFRCVLGRMSVQLGNVGK |
| 6357 | sp|Q8N9N2|ASCC1\_HUMAN | MEVLRPQLIRIDGRNYRKNPVQEQTYQHEEDEEDFYQGSMECADEPCDAYEVEQTPQGFRSTLRAPSLLYNLIHLNTSNDCGFQKITLDCQNIYTWKSRHIVGKRGDTRKKIEMETKTSISIPKPGQDGEIVITGQHRNGVISARTRIDVLLDTFRRKQPFTHFLAFFLNEVEVQEGFLRFQEEVLAKCSMDHGVDSSIFQNPKKLHLTIGMLVLLSEEEIQQTCEMLQQCKEEFINDISGGKPLEVEMAGIEYMNDDPGMVDVLYAKVHMKDGSNRLQELVDRVLERFQASGLIVKEWNSVKLHATVMNTLFRKDPNAEGRYNLYTAEGKYIFKERESFDGRNILKSFALLPRLEYNDAISAHCNLCLPGSSDSPASASQVAGITGVSDAYSQSLPGKS |
| 6358 | sp|Q9Y2Q0|AT8A1\_HUMAN | MPTMRRTVSEIRSRAEGYEKTDDVSEKTSLADQEEVRTIFINQPQLTKFCNNHVSTAKYNIITFLPRFLYSQFRRAANSFFLFIALLQQIPDVSPTGRYTTLVPLLFILAVAAIKEIIEDIKRHKADNAVNKKQTQVLRNGAWEIVHWEKVAVGEIVKVTNGEHLPADLISLSSSEPQAMCYIETSNLDGETNLKIRQGLPATSDIKDVDSLMRISGRIECESPNRHLYDFVGNIRLDGHGTVPLGADQILLRGAQLRNTQWVHGIVVYTGHDTKLMQNSTSPPLKLSNVERITNVQILILFCILIAMSLVCSVGSAIWNRRHSGKDWYLNLNYGGASNFGLNFLTFIILFNNLIPISLLVTLEVVKFTQAYFINWDLDMHYEPTDTAAMARTSNLNEELGQVKYIFSDKTGTLTCNVMQFKKCTIAGVAYGHVPEPEDYGCSPDEWQNSQFGDEKTFSDSSLLENLQNNHPTAPIICEFLTMMAVCHTAVPEREGDKIIYQAASPDEGALVRAAKQLNFVFTGRTPDSVIIDSLGQEERYELLNVLEFTSARKRMSVIVRTPSGKLRLYCKGADTVIYDRLAETSKYKEITLKHLEQFATEGLRTLCFAVAEISESDFQEWRAVYQRASTSVQNRLLKLEESYELIEKNLQLLGATAIEDKLQDQVPETIETLMKADIKIWILTGDKQETAINIGHSCKLLKKNMGMIVINEGSLDGTRETLSRHCTTLGDALRKENDFALIIDGKTLKYALTFGVRQYFLDLALSCKAVICCRVSPLQKSEVVEMVKKQVKVVTLAIGDGANDVSMIQTAHVGVGISGNEGLQAANSSDYSIAQFKYLKNLLMIHGAWNYNRVSKCILYCFYKNIVLYIIEIWFAFVNGFSGQILFERWCIGLYNVMFTAMPPLTLGIFERSCRKENMLKYPELYKTSQNALDFNTKVFWVHCLNGLFHSVILFWFPLKALQYGTAFGNGKTSDYLLLGNFVYTFVVITVCLKAGLETSYWTWFSHIAIWGSIALWVVFFGIYSSLWPAIPMAPDMSGEAAMLFSSGVFWMGLLFIPVASLLLDVVYKVIKRTAFKTLVDEVQELEAKSQDPGAVVLGKSLTERAQLLKNVFKKNHVNLYRSESLQQNLLHGYAFSQDENGIVSQSEVIRAYDTTKQRPDEW |
| 6359 | sp|Q8LPL3|ASO\_ARATH | MAVIVWWLLTVVVVAFHSASAAVVESTWEVEYKYWWPDCKEGIVMAINGQFPGPTIDAVAGDTVIIHVVNKLSTEGVVIHWHGIRQKGTPWADGAAGVTQCPINPGETFTYKFIVDKAGTHFYHGHYGMQRSSGLYGMLIVRSPKERLIYDGEFNLLLSDWWHQSIHAQELALSSRPMRWIGEPQSLLINGRGQFNCSQAAYFNKGGEKDVCTFKENDQCAPQTLRVEPNRVYRLRIASTTALASLNLAVQGHQLVVVEADGNYVAPFTVNDIDVYSGETYSVLLKTNALPSKKYWISVGVRGREPKTPQALTVINYVDATESRPSHPPPVTPIWNDTDRSKSFSKKIFAAKGYPKPPEKSHDQLILLNTQNLYEDYTKWSINNVSLSVPVTPYLGSIRYGLKSAYDLKSPAKKLIMDNYDIMKPPPNPNTTKGSGIYNFAFGIVVDVILQNANVLKGVISEIHPWHIHGHDFWVLGYGEGKFKPGIDEKTFNLKNPPLRNTVVLYPFGWTAIRFVTDNPGVWFFHCHIEPHLHMGMGVVFVEGVDRIGKMEIPDEALGCGLTRKWLMNRGRP |
| 6360 | sp|Q06055|AT5G2\_HUMAN | MFACSKFVSTPSLVKSTSQLLSRPLSAVVLKRPEILTDESLSSLAVSCPLTSLVSSRSFQTSAISRDIDTAAKFIGAGAATVGVAGSGAGIGTVFGSLIIGYARNPSLKQQLFSYAILGFALSEAMGLFCLMVAFLILFAM |
| 6361 | sp|P53731|ARPC2\_YEAST | MLHLQPQNLLIQKTLNEAIEALRKGSPLTMDRIVSDFDYTTYHISNTAEDKSILLLSVKTKAWVSVSECQLDGSLTLLKFLADHYSSLGGVTIPSEVEPGYDYTLQITLAELVQESILQLSVLKTIILSFPFELAISKFIELSQQQPAPVEAEITGGEVAANGDNTLFTIKYRDEENIFIKPSNDRVTIIFETIFQDETDKIFGKVFLQEFVDARKRNRQIQSAPQVLYSHEPPLELKRLYQPPKVAEQSRRFITFVLFPRHFQTKELQFHSICQLTLFRNYFHYHIKCSKAYMHSRMRFRVDSFIKVLNRAKVDEDDENDELSAEGRQQARRTFTGRKIVY |
| 6362 | sp|P97857|ATS1\_MOUSE | MQPKVPLGSRKQKPCSDMGDVQRAARSRGSLSAHMLLLLLASITMLLCARGAHGRPTEEDEELVLPSLERAPGHDSTTTRLRLDAFGQQLHLKLQPDSGFLAPGFTLQTVGRSPGSEAQHLDPTGDLAHCFYSGTVNGDPGSAAALSLCEGVRGAFYLQGEEFFIQPAPGVATERLAPAVPEEESSARPQFHILRRRRRGSGGAKCGVMDDETLPTSDSRPESQNTRNQWPVRDPTPQDAGKPSGPGSIRKKRFVSSPRYVETMLVADQSMADFHGSGLKHYLLTLFSVAARFYKHPSIRNSISLVVVKILVIYEEQKGPEVTSNAALTLRNFCSWQKQHNSPSDRDPEHYDTAILFTRQDLCGSHTCDTLGMADVGTVCDPSRSCSVIEDDGLQAAFTTAHELGHVFNMPHDDAKHCASLNGVSGDSHLMASMLSSLDHSQPWSPCSAYMVTSFLDNGHGECLMDKPQNPIKLPSDLPGTLYDANRQCQFTFGEESKHCPDAASTCTTLWCTGTSGGLLVCQTKHFPWADGTSCGEGKWCVSGKCVNKTDMKHFATPVHGSWGPWGPWGDCSRTCGGGVQYTMRECDNPVPKNGGKYCEGKRVRYRSCNIEDCPDNNGKTFREEQCEAHNEFSKASFGNEPTVEWTPKYAGVSPKDRCKLTCEAKGIGYFFVLQPKVVDGTPCSPDSTSVCVQGQCVKAGCDRIIDSKKKFDKCGVCGGNGSTCKKMSGIVTSTRPGYHDIVTIPAGATNIEVKHRNQRGSRNNGSFLAIRAADGTYILNGNFTLSTLEQDLTYKGTVLRYSGSSAALERIRSFSPLKEPLTIQVLMVGHALRPKIKFTYFMKKKTESFNAIPTFSEWVIEEWGECSKTCGSGWQRRVVQCRDINGHPASECAKEVKPASTRPCADLPCPHWQVGDWSPCSKTCGKGYKKRTLKCVSHDGGVLSNESCDPLKKPKHYIDFCTLTQCS |
| 6363 | sp|P20648|ATP4A\_HUMAN | MGKAENYELYSVELGPGPGGDMAAKMSKKKKAGGGGGKRKEKLENMKKEMEINDHQLSVAELEQKYQTSATKGLSASLAAELLLRDGPNALRPPRGTPEYVKFARQLAGGLQCLMWVAAAICLIAFAIQASEGDLTTDDNLYLAIALIAVVVVTGCFGYYQEFKSTNIIASFKNLVPQQATVIRDGDKFQINADQLVVGDLVEMKGGDRVPADIRILAAQGCKVDNSSLTGESEPQTRSPECTHESPLETRNIAFFSTMCLEGTVQGLVVNTGDRTIIGRIASLASGVENEKTPIAIEIEHFVDIIAGLAILFGATFFIVAMCIGYTFLRAMVFFMAIVVAYVPEGLLATVTVCLSLTAKRLASKNCVVKNLEAVETLGSTSVICSDKTGTLTQNRMTVSHLWFDNHIHTADTTEDQSGQTFDQSSETWRALCRVLTLCNRAAFKSGQDAVPVPKRIVIGDASETALLKFSELTLGNAMGYRDRFPKVCEIPFNSTNKFQLSIHTLEDPRDPRHLLVMKGAPERVLERCSSILIKGQELPLDEQWREAFQTAYLSLGGLGERVLGFCQLYLNEKDYPPGYAFDVEAMNFPSSGLCFAGLVSMIDPPRATVPDAVLKCRTAGIRVIMVTGDHPITAKAIAASVGIISEGSETVEDIAARLRVPVDQVNRKDARACVINGMQLKDMDPSELVEALRTHPEMVFARTSPQQKLVIVESCQRLGAIVAVTGDGVNDSPALKKADIGVAMGIAGSDAAKNAADMILLDDNFASIVTGVEQGRLIFDNLKKSIAYTLTKNIPELTPYLIYITVSVPLPLGCITILFIELCTDIFPSVSLAYEKAESDIMHLRPRNPKRDRLVNEPLAAYSYFQIGAIQSFAGFTDYFTAMAQEGWFPLLCVGLRAQWEDHHLQDLQDSYGQEWTFGQRLYQQYTCYTVFFISIEVCQIADVLIRKTRRLSAFQQGFFRNKILVIAIVFQVCIGCFLCYCPGMPNIFNFMPIRFQWWLVPLPYGILIFVYDEIRKLGVRCCPGSWWDQELYY |
| 6364 | sp|Q58HT5|AWAT1\_HUMAN | MAHSKQPSHFQSLMLLQWPLSYLAIFWILQPLFVYLLFTSLWPLPVLYFAWLFLDWKTPERGGRRSAWVRNWCVWTHIRDYFPITILKTKDLSPEHNYLMGVHPHGLLTFGAFCNFCTEATGFSKTFPGITPHLATLSWFFKIPFVREYLMAKGVCSVSQPAINYLLSHGTGNLVGIVVGGVGEALQSVPNTTTLILQKRKGFVRTALQHGAHLVPTFTFGETEVYDQVLFHKDSRMYKFQSCFRRIFGFYCCVFYGQSFCQGSTGLLPYSRPIVTVVGEPLPLPQIEKPSQEMVDKYHALYMDALHKLFDQHKTHYGCSETQKLFFL |
| 6365 | sp|Q24048|ATPB2\_DROME | MPTITEDCIDGFQQYYSRPPERPKKKSLKQMVYDSEDNSYFGRSMDSWAKIGIFYVAFYGVLAALVAICMWAFFQTLDPRIPKWTLDRSLIGTNPGLGFRPLPPVDNVESTLIWYKGTQHENYKHWTDSLDDFLAVYKVPGLTPGRGQNIYNCDYNQPPPKGQVCDVDIKTWSPCTKENNYSYHKSAPCIFLKLNKIYGWIPEYYNRSNDLPANMPASLKTYIAEVEKTQPEKLNTIWVSCEGENPADQENIGAVNYLPIRGFPGYFYPYQNSEGYLSPLVAVHFQRPKRGIIINVECRAWARNIIHDRKERIGSVHYELLID |
| 6366 | sp|Q24157|BRN\_DROME | MQSKHRKLLLRCLLVLPLILLVDYCGLLTHLHELNFERHFHYPLNDDTGSGSASSGLDKFAYLRVPSFTAEVPVDQPARLTMLIKSAVGNSRRREAIRRTWGYEGRFSDVHLRRVFLLGTAEDSEKDVAWESREHGDILQAEFTDAYFNNTLKTMLGMRWASDQFNRSEFYLFVDDDYYVSAKNVLKFLGRGRQSHQPELLFAGHVFQTSPLRHKFSKWYVSLEEYPFDRWPPYVTAGAFILSQKALRQLYAASVHLPLFRFDDVYLGIVALKAGISLQHCDDFRFHRPAYKGPDSYSSVIASHEFGDPEEMTRVWNECRSANYA |
| 6367 | sp|Q7K237|C1GLT\_DROME | MTANSLLGRSILNEGRSNKRSFVSLIVGLIVGFCLAELFVYSTPERSEFMPYDGHRHGDVNDAHHSHDMMEMSGPEQDVGGHEHVHENSTIAERLYSEVRVLCWIMTNPSNHQKKARHVKRTWGKRCNKLIFMSSAKDDELDAVALPVGEGRNNLWGKTKEAYKYIYEHHINDADWFLKADDDTYTIVENMRYMLYPYSPETPVYFGCKFKPYVKQGYMSGGAGYVLSREAVRRFVVEALPNPKLCKSDNSGAEDVEIGKCLQNVNVLAGDSRDSNGRGRFFPFVPEHHLIPSHTDKKFWYWQYIFYKTDEGLDCCSDNAISFHYVSPNQMYVLDYLIYHLRPYGIINTPDALPNKLAVGELMPEIKEQATESTSDGVSKRSAETKTQ |
| 6368 | sp|Q8TE60|ATS18\_HUMAN | MECALLLACAFPAAGSGPPRGLAGLGRVAKALQLCCLCCASVAAALASDSSSGASGLNDDYVFVTPVEVDSAGSYISHDILHNGRKKRSAQNARSSLHYRFSAFGQELHLELKPSAILSSHFIVQVLGKDGASETQKPEVQQCFYQGFIRNDSSSSVAVSTCAGLSGLIRTRKNEFLISPLPQLLAQEHNYSSPAGHHPHVLYKRTAEEKIQRYRGYPGSGRNYPGYSPSHIPHASQSRETEYHHRRLQKQHFCGRRKKYAPKPPTEDTYLRFDEYGSSGRPRRSAGKSQKGLNVETLVVADKKMVEKHGKGNVTTYILTVMNMVSGLFKDGTIGSDINVVVVSLILLEQEPGGLLINHHADQSLNSFCQWQSALIGKNGKRHDHAILLTGFDICSWKNEPCDTLGFAPISGMCSKYRSCTINEDTGLGLAFTIAHESGHNFGMIHDGEGNPCRKAEGNIMSPTLTGNNGVFSWSSCSRQYLKKFLSTPQAGCLVDEPKQAGQYKYPDKLPGQIYDADTQCKWQFGAKAKLCSLGFVKDICKSLWCHRVGHRCETKFMPAAEGTVCGLSMWCRQGQCVKFGELGPRPIHGQWSAWSKWSECSRTCGGGVKFQERHCNNPKPQYGGLFCPGSSRIYQLCNINPCNENSLDFRAQQCAEYNSKPFRGWFYQWKPYTKVEEEDRCKLYCKAENFEFFFAMSGKVKDGTPCSPNKNDVCIDGVCELVGCDHELGSKAVSDACGVCKGDNSTCKFYKGLYLNQHKANEYYPVVLIPAGARSIEIQELQVSSSYLAVRSLSQKYYLTGGWSIDWPGEFPFAGTTFEYQRSFNRPERLYAPGPTNETLVFEILMQGKNPGIAWKYALPKVMNGTPPATKRPAYTWSIVQSECSVSCGGGYINVKAICLRDQNTQVNSSFCSAKTKPVTEPKICNAFSCPAYWMPGEWSTCSKACAGGQQSRKIQCVQKKPFQKEEAVLHSLCPVSTPTQVQACNSHACPPQWSLGPWSQCSKTCGRGVRKRELLCKGSAAETLPESQCTSLPRPELQEGCVLGRCPKNSRLQWVASSWSECSATCGLGVRKREMKCSEKGFQGKLITFPERRCRNIKKPNLDLEETCNRRACPAHPVYNMVAGWYSLPWQQCTVTCGGGVQTRSVHCVQQGRPSSSCLLHQKPPVLRACNTNFCPAPEKREDPSCVDFFNWCHLVPQHGVCNHKFYGKQCCKSCTRKI |
| 6369 | sp|Q13323|BIK\_HUMAN | MSEVRPLSRDILMETLLYEQLLEPPTMEVLGMTDSEEDLDPMEDFDSLECMEGSDALALRLACIGDEMDVSLRAPRLAQLSEVAMHSLGLAFIYDQTEDIRDVLRSFMDGFTTLKENIMRFWRSPNPGSWVSCEQVLLALLLLLALLLPLLSGGLHLLLK |
| 6370 | sp|Q9BXH1|BBC3\_HUMAN | MARARQEGSSPEPVEGLARDGPRPFPLGRLVPSAVSCGLCEPGLAAAPAAPTLLPAAYLCAPTAPPAVTAALGGSRWPGGPRSRPRGPRPDGPQPSLSLAEQHLESPVPSAPGALAGGPTQAAPGVRGEEEQWAREIGAQLRRMADDLNAQYERRRQEEQQRHRPSPWRVLYNLIMGLLPLPRGHRAPEMEPN |
| 6371 | sp|Q0VCX2|BIP\_BOVIN | MKLSLVAAVLLLLLGTARAEEEDKKEDVGTVVGIDLGTTYSCVGVFKNGRVEIIANDQGNRITPSYVAFTPEGERLIGDAAKNQLTSNPENTVFDAKRLIGRTWNDPSVQQDIKFLPFKVVEKKTKPYIQVDVGGGQTKTFAPEEISAMVLTKMKETAEAYLGKKVTHAVVTVPAYFNDAQRQATKDAGTIAGLNVMRIINEPTAAAIAYGLDKREGEKNILVFDLGGGTFDVSLLTIDNGVFEVVATNGDTHLGGEDFDQRVMEHFIKLYKKKTGKDVRKDNRAVQKLRREVEKAKRALSSQHQARIEIESFYEGEDFSETLTRAKFEELNMDLFRSTMKPVQKVLEDSDLKKSDIDEIVLVGGSTRIPKIQQLVKEFFNGKEPSRGINPDEAVAYGAAVQAGVLSGDQDTGDLVLLDVCPLTLGIETVGGVMTKLIPRNTVVPTKKSQIFSTASDNQPTVTIKVYEGERPLTKDNHLLGTFDLTGIPPAPRGVPQIEVTFEIDVNGILRVTAEDKGTGNKNKITITNDQNRLTPEEIERMVNDAEKFAEEDKKLKERIDTRNELESYAYSLKNQIGDKEKLGGKLSSEDKETMEKAVEEKIEWLESHQDADIEDFKAKKKELEEIVQPIISKLYGSAGPPPTSEEEAADKDEL |
| 6372 | sp|Q9SR37|BGL23\_ARATH | MVLQKLPLIGLLLLLTIVASPANADGPVCPPSNKLSRASFPEGFLFGTATAAYQVEGAINETCRGPALWDIYCRRYPERCNNDNGDVAVDFFHRYKEDIQLMKNLNTDAFRMSIAWPRIFPHGRKEKGVSQAGVQFYHDLIDELIKNGITPFVTVFHWDTPQDLEDEYGGFLSERIVKDFREYADFVFQEYGGKVKHWITFNEPWVFSHAGYDVGKKAPGRCSSYVNAKCQDGRSGYEAYLVTHNLLISHAEAVEAYRKCEKCKGGKIGIAHSPAWFEAHDLADSQDGASIDRALDFILGWHLDTTTFGDYPQIMKDIVGHRLPKFTTEQKAKLKASTDFVGLNYYTSVFSNHLEKPDPSKPRWMQDSLITWESKNAQNYAIGSKPLTAALNVYSRGFRSLLKYIKDKYANPEIMIMENGYGEELGASDSVAVGTADHNRKYYLQRHLLSMQEAVCIDKVNVTGYFVWSLLDNFEWQDGYKNRFGLYYVDFKNNLTRYEKESGKYYKDFLSQGVRPSALKKDEL |
| 6373 | sp|Q96291|BAS1A\_ARATH | MASVASSTTLISSPSSRVFPAKSSLSSPSVSFLRTLSSPSASASLRSGFARRSSLSSTSRRSFAVKAQADDLPLVGNKAPDFEAEAVFDQEFIKVKLSDYIGKKYVILFFYPLDFTFVCPTEITAFSDRHSEFEKLNTEVLGVSVDSVFSHLAWVQTDRKSGGLGDLNYPLISDVTKSISKSFGVLIHDQGIALRGLFIIDKEGVIQHSTINNLGIGRSVDETMRTLQALQYIQENPDEVCPAGWKPGEKSMKPDPKLSKEYFSAI |
| 6374 | sp|Q8WZ55|BSND\_HUMAN | MADEKTFRIGFIVLGLFLLALGTFLMSHDRPQVYGTFYAMGSVMVIGGIIWSMCQCYPKITFVPADSDFQGILSPKAMGLLENGLAAEMKSPSPQPPYVRLWEEAAYDQSLPDFSHIQMKVMSYSEDHRSLLAPEMGQPKLGTSDGGEGGPGDVQAWMEAAVVIHKGSDESEGERRLTQSWPGPLACPQGPAPLASFQDDLDMDSSEGSSPNASPHDREEACSPQQEPQGCRCPLDRFQDFALIDAPTLEDEPQEGQQWEIALPNNWQRYPRTKVEEKEASDTGGEEPEKEEEDLYYGLPDGAGDLLPDKELGFEPDTQG |
| 6375 | sp|P06709|BIRA\_ECOLI | MKDNTVPLKLIALLANGEFHSGEQLGETLGMSRAAINKHIQTLRDWGVDVFTVPGKGYSLPEPIQLLNAKQILGQLDGGSVAVLPVIDSTNQYLLDRIGELKSGDACIAEYQQAGRGRRGRKWFSPFGANLYLSMFWRLEQGPAAAIGLSLVIGIVMAEVLRKLGADKVRVKWPNDLYLQDRKLAGILVELTGKTGDAAQIVIGAGINMAMRRVEESVVNQGWITLQEAGINLDRNTLAAMLIRELRAALELFEQEGLAPYLSRWEKLDNFINRPVKLIIGDKEIFGISRGIDKQGALLLEQDGIIKPWMGGEISLRSAEK |
| 6376 | sp|O54825|BYST\_MOUSE | MPKFKVTRGASNREKHAPLAEQILAGNAVRAGTREKRRGREVEEEEEYVGPRLSRRILQQARQQQEELETDHGAGDRSAPPRERATRLGPGLPQDGSDEEDEEWPTLEKAAKMAGVDHQAEVIVDPEDERAIEMFMNKNPPVRRTLADIIMEKLTEKQTEVETVMSEVSGFPMPQLDPRVLEVYRGVREVLCKYRSGKLPKAFKVIPALSNWEQILYVTEPEAWTAAAMYQATRIFASNLKERMAQRFYNLVLLPRVRDDIAEYKRLNFHLYMALKKALFKPGAWFKGILIPLCESGTCTLREAIIVGSIITKCSIPVLHSSAAMLKIAEMEYSGANSIFLRLLLDKKYALPYRVLDALVFHFLAFRTEKRQLPVLWHQCLLTLAQRYKADLATEQKEALLELLRLQPHPQLSPEIRRELQSAVPRDVEDGGVTME |
| 6377 | sp|P28028|BRAF\_MOUSE | MAALSGGGGSSSGGGGGGGGGGGGGDGGGGAEQGQALFNGDMEPEAGAGAAASSAADPAIPEEVWNIKQMIKLTQEHIEALLDKFGGEHNPPSIYLEAYEEYTSKLDALQQREQQLLESLVFQTPTDASRNNPKSPQKPIVRVFLPNKQRTVVPARCGVTVRDSLKKALMMRGLIPECCAVYRIQDGEKKPIGWDTDISWLTGEELHVEVLENVPLTTHNFVRKTFFTLAFCDFCRKLLFQGFRCQTCGYKFHQRCSTEVPLMCVNYDQLDLLFVSKFFEHHPVPQEEASFPETALPSGSSSAPPSDSTGPQILTSPSPSKSIPIPQPFRPADEDHRNQFGQRDRSSSAPNVHINTIEPVNIDEKFPEVELQDQRDLIRDQGFRGDGAPLNQLMRCLRKYQSRTPSPLLHSVPSEIVFDFEPGPVFRGSTTGLSATPPASLPGSLTNVKALQKSPGPQRERKSSSSSSSEDRSRMKTLGRRDSSDDWEIPDGQITVGQRIGSGSFGTVYKGKWHGDVAVKMLNVTAPTPQQLQAFKNEVGVLRKTRHVNILLFMGYSTKPQLAIVTQWCEGSSLYHHLHIIETKFEMIKLIDIARQTAQGMDYLHAKSIIHRDLKSNNIFLHEDLTVKIGDFGLATVKSRWSGSHQFEQLSGSILWMAPEVIRMQDKNPYSFQSDVYAFGIVLYELMTGQLPYSNINNRDQIIFMVGRGYLSPDLSKVRSNCPKAMKRLMAECLKKKRDERPLFPQILASIELLARSLPKIHRSASEPSLNRAGFQTEDFSLYACASPKTPIQAGGYGEFAAFK |
| 6378 | sp|Q8GVD0|BGLC\_OLEEU | MDIQSNVLTITSGSTPTDTSSNGQAAKSTKERIKRSDFPSDFVFGAATASYQVEGAWNEGGKGMSNWDYFTQSQPGGISDFSNGTIAIDHYNMFKDDVVVMKKLGLKAYRFSLSWPRILPGGRLCHGVSKEGVQFYNDLIDALLAADIEPYITIFHWDIPQCLQLEYGGFLHERVVKDFIEYSEICFWEFGDRVKYWITLNEPWSFTVQGYVAGAFPPNRGVTPKDTEETQKHARLHRGGGKLLAAFKYGNPGTEPYKVAHNLILCHAHAVDIYRTKYQESQGGKIGITNCISWNEPLTDSQEDKDAATRGNDFMLGWFVEPVVTGEYPESMIKYVGDRLPKFSEKEEKLVKGSYDFLGINYYTSTYTSDDPTKPTTDSYFTDSHTKTSHERNKVPIGAQAGSDWLYIVPWGIYRVMVDMKKRYNDPVIYITENGVDEVNDKSKTSTEALKDDIRIHYHQEHLYYLKLAMDQGVNVKGYFIWSLFDNFEWAAGFSVRFGVMYVDYANGRYTRLPKRSAVWWRNFLTKPTAVPLKNEPEKSEDRRKRLRGST |
| 6379 | sp|Q9T1V4|BP45\_BPMU | MERVNDSALNRLLTPLMRRVRLMLARAVVNVINDGRKVQNLQVGLLDDEESDEVERLQNYGHFSVPLPGAEALIACVGAQRDQGIAVVVEDRRYRPTNLEPGDAGIYHHEGHRIRLTKDGRCIITCKTVEVYADESMTVDTPRTTFTGDVEIQKGLGVKGKSQFDSNITAPDAIINGKSTDKHIHRGDSGGTTGPMQ |
| 6380 | sp|P9WPQ5|BIOD\_MYCTU | MTILVVTGTGTGVGKTVVCAALASAARQAGIDVAVCKPVQTGTARGDDDLAEVGRLAGVTQLAGLARYPQPMAPAAAAEHAGMALPARDQIVRLIADLDRPGRLTLVEGAGGLLVELAEPGVTLRDVAVDVAAAALVVVTADLGTLNHTKLTLEALAAQQVSCAGLVIGSWPDPPGLVAASNRSALARIAMVRAALPAGAASLDAGDFAAMSAAAFDRNWVAGLVG |
| 6381 | sp|Q9HTJ1|BETB\_PSEAE | MARFEEQKLYIGGRYVEASSGATFETINPANGEVLAKVQRASREDVERAVQSAVEGQKVWAAMTAMQRSRILRRAVDILRERNDELAALETLDTGKPLAETRSVDIVTGADVLEYYAGLVPAIEGEQIPLRETSFVYTRREPLGVVAGIGAWNYPVQIALWKSAPALAAGNAMIFKPSEVTPLTALKLAEIYTEAGVPDGVFNVLTGSGREVGQWLTEHPLIEKISFTGGTSTGKKVMASASSSSLKEVTMELGGKSPLIIFPDADLDRAADIAVMANFFSSGQVCTNGTRVFIHRSQQARFEAKVLERVQRIRLGDPQDENTNFGPLVSFPHMESVLGYIESGKAQKARLLCGGERVTDGAFGKGAYVAPTVFTDCRDDMTIVREEIFGPVMSILVYDDEDEAIRRANDTEYGLAAGVVTQDLARAHRAIHRLEAGICWINTWGESPAEMPVGGYKQSGVGRENGLTTLAHYTRIKSVQVELGDYASVF |
| 6382 | sp|P53563|B2CL1\_RAT | MSQSNRELVVDFLSYKLSQKGYSWSQFSDVEENRTEAPEETEPERETPSAINGNPSWHLADSPAVNGATGHSSSLDAREVIPMAAVKQALREAGDEFELRYRRAFSDLTSQLHITPGTAYQSFEQVVNELFRDGVNWGRIVAFFSFGGALCVESVDKEMQVLVSRIASWMATYLNDHLEPWIQENGGWDTFVDLYGNNAAAESRKGQERFNRWFLTGMTVAGVVLLGSLFSRK |
| 6383 | sp|Q2VG86|BAEE\_BOMMO | MKTPFEKIRIISCILVIVSTNVVGQKCNGGANCIPLEECTDLFQQLKQGNSPQLTRLLRGLHCGFEDLNSPKICCPPEFLARRSAFSSAGTNSNPTSILPNEKVCGIQNNDRIFGGIQTEIDEHPWMALLRYDKPLGWGFYCGGVLIAPMYVLTAAHCVKGSDLPSSWQLSQVRLGEWNTSTETDCVEGDCSGPVQDIPVQQIIAHENYDPNDKDQQNDIALLRLSRNAQFNDFVSPICLPTSNELRQNEFESDYMEVAGWGKTETRSESDVKLKVRVPIVNREECANVYSNVDRRVTNKQICAGGLAGRDSCRGDSGGALMGQSPKANNWYVFGVVSYGPSPCGTEGWPGVYTRVGSFMDWILSKLEQ |
| 6384 | sp|Q3U319|BRE1B\_MOUSE | MSGLSNKRAAGDGGSGPPEKKMNREEKTTTTLIEPIRLGGISSTEEMDSKVLQFKNKKLAERLEQRQACEDELRERIEKLEKRQATDDATLLIVNRYWAQLDETVEALLQCYENQRELSSGTEVPGCQEGLTRDVIPRPDPGTSDLREPLPVQFRAPLSEPALAFVVALGASSCEEVELQLQGRMEFSKAAVSRVVEASDRLQRQVEELCQRVYSRGDSEAPGEVARVRTRELGRENRRLQDLATQLQEKHHRISLEYSELQDKVTSTETKVLEMETTVEDLQWDIEKLRKREQKLNKHLAEALEQLNSGYYVSGSSTGFQGGQITLSMQKFEMLNAELEENQELANSRMAELEKLQAELQGAVRTNERLKVALRSLPEEVVRETGEYRMLQAQFSLLYNESLQVKTQLDEARGLLLASKNSHLRHIEHMESDELGLQKKLRTEVIQLEDTLAQVRKEYEMLRIEFEQNLAANEQAGPINREMRHLISSLQNHNHQLKGDAQRYKRKLREVQAEIGKLRAQASGSSHCIPTLSHPDDPGLNALAPGKEDSGPGPGGTPDCKKEMALLAGATSATSSIKKEELVSSEDDAQALTPVTQGLPSRGREPEARPKRELREREGPSLGPPPAASTLSRADREKAKVEEAKRKESELLKGLRAELKKAQESQKEMKLLLDMYKSAPKEQRDKVQLMAAERKAKAEVDELRSRIRELEERDRRESKKIADEDALRRIRQAEEQIEHLQRKLGATKQEEEALLSEMDVTGQAFEDMQEQNGRLLQQLREKDDANFKLMSERIKANQIHKLLREEKDELGEQVLGLKSQVDAQLLTVQKLEEKERALQGSLGGVEKELTLRSQALELNKRKAVEAAQLAEDLKVQLEHVQTRLREIQPCLAESRAAREKESFNLKRAQEDISRLRRKLEKQRKVEVYADADEILQEEIKEYKARLTCPCCNTRKKDAVLTKCFHVFCFECVRGRYEARQRKCPKCNAAFGAHDFHRVYIS |
| 6385 | sp|Q9WTZ9|BEX3\_MOUSE | MANVHQENEEMEQPLQNGQEDRPVGGGEGHQPAANNNNNNHNHNHNHHRRGQARRLAPNFRWAIPNRQMNDGLGGDGDDMEMFMEEMREIRRKLRELQLRNCLRILMGELSNHHDHHDEFCLMP |
| 6386 | sp|Q00973|B4GN1\_HUMAN | MWLGRRALCALVLLLACASLGLLYASTRDAPGLRLPLAPWAPPQSPRRPELPDLAPEPRYAHIPVRIKEQVVGLLAWNNCSCESSGGGLPLPFQKQVRAIDLTKAFDPAELRAASATREQEFQAFLSRSQSPADQLLIAPANSPLQYPLQGVEVQPLRSILVPGLSLQAASGQEVYQVNLTASLGTWDVAGEVTGVTLTGEGQADLTLVSPGLDQLNRQLQLVTYSSRSYQTNTADTVRFSTEGHEAAFTIRIRHPPNPRLYPPGSLPQGAQYNISALVTIATKTFLRYDRLRALITSIRRFYPTVTVVIADDSDKPERVSGPYVEHYLMPFGKGWFAGRNLAVSQVTTKYVLWVDDDFVFTARTRLERLVDVLERTPLDLVGGAVREISGFATTYRQLLSVEPGAPGLGNCLRQRRGFHHELVGFPGCVVTDGVVNFFLARTDKVREVGFDPRLSRVAHLEFFLDGLGSLRVGSCSDVVVDHASKLKLPWTSRDAGAETYARYRYPGSLDESQMAKHRLLFFKHRLQCMTSQ |
| 6387 | sp|O95816|BAG2\_HUMAN | MAQAKINAKANEGRFCRSSSMADRSSRLLESLDQLELRVEALREAATAVEQEKEILLEMIHSIQNSQDMRQISDGEREELNLTANRLMGRTLTVEVSVETIRNPQQQESLKHATRIIDEVVNKFLDDLGNAKSHLMSLYSACSSEVPHGPVDQKFQSIVIGCALEDQKKIKRRLETLLRNIENSDKAIKLLEHSKGAGSKTLQQNAESRFN |
| 6388 | sp|P0A940|BAMA\_ECOLI | MAMKKLLIASLLFSSATVYGAEGFVVKDIHFEGLQRVAVGAALLSMPVRTGDTVNDEDISNTIRALFATGNFEDVRVLRDGDTLLVQVKERPTIASITFSGNKSVKDDMLKQNLEASGVRVGESLDRTTIADIEKGLEDFYYSVGKYSASVKAVVTPLPRNRVDLKLVFQEGVSAEIQQINIVGNHAFTTDELISHFQLRDEVPWWNVVGDRKYQKQKLAGDLETLRSYYLDRGYARFNIDSTQVSLTPDKKGIYVTVNITEGDQYKLSGVEVSGNLAGHSAEIEQLTKIEPGELYNGTKVTKMEDDIKKLLGRYGYAYPRVQSMPEINDADKTVKLRVNVDAGNRFYVRKIRFEGNDTSKDAVLRREMRQMEGAWLGSDLVDQGKERLNRLGFFETVDTDTQRVPGSPDQVDVVYKVKERNTGSFNFGIGYGTESGVSFQAGVQQDNWLGTGYAVGINGTKNDYQTYAELSVTNPYFTVDGVSLGGRLFYNDFQADDADLSDYTNKSYGTDVTLGFPINEYNSLRAGLGYVHNSLSNMQPQVAMWRYLYSMGEHPSTSDQDNSFKTDDFTFNYGWTYNKLDRGYFPTDGSRVNLTGKVTIPGSDNEYYKVTLDTATYVPIDDDHKWVVLGRTRWGYGDGLGGKEMPFYENFYAGGSSTVRGFQSNTIGPKAVYFPHQASNYDPDYDYECATQDGAKDLCKSDDAVGGNAMAVASLEFITPTPFISDKYANSVRTSFFWDMGTVWDTNWDSSQYSGYPDYSDPSNIRMSAGIALQWMSPLGPLVFSYAQPFKKYDGDKAEQFQFNIGKTW |
| 6389 | sp|O81851|BOI\_ARATH | MAVQAHHMNIFSQFISPNRDCVKFQENMNHGEFEFTGGEVPLITGESFAVEPLAAKANFNKAESGLSYNFTVPPLSTKRQRDFQFSDSNAPVKRRSVAFDSSSPSLINVELVSQIQNQQQSEIDRFVAQQTEKLRIEIEARQQTQTRMLASAVQNVIAKKLKEKDDEIVRIRNLNWVLQERVKSLYVENQIWRDIAQTNEANANTLRTNLDQVLAQLETFPTASAVVEDDAESSCGSCCGDGGGEAVTAVGGGCKRCGEREASVLVLPCRHLCLCTVCGGSALLRTCPVCDMVMNASVHVNMSS |
| 6390 | sp|P0AE52|BCP\_ECOLI | MNPLKAGDIAPKFSLPDQDGEQVNLTDFQGQRVLVYFYPKAMTPGCTVQACGLRDNMDELKKAGVDVLGISTDKPEKLSRFAEKELLNFTLLSDEDHQVCEQFGVWGEKSFMGKTYDGIHRISFLIDADGKIEHVFDDFKTSNHHDVVLNWLKEHA |
| 6391 | sp|Q6Z4U4|BAK1\_ORYSJ | MAAHRWAVWAVLLLRLLVPAARVLANMEGDALHSLRTNLVDPNNVLQSWDPTLVNPCTWFHVTCNNDNSVIRVDLGNAALSGTLVPQLGQLKNLQYLELYSNNISGTIPSELGNLTNLVSLDLYLNNFTGPIPDSLGNLLKLRFLRLNNNSLSGSIPKSLTAITALQVLDLSNNNLSGEVPSTGSFSLFTPISFANNPSLCGPGTTKPCPGAPPFSPPPPYNPPTPVQSPGSSSSTGAIAGGVAAGAALLFAIPAIGFAWYRRRKPQEHFFDVPAEEDPEVHLGQLKRFSLRELQVATDTFSNKNILGRGGFGKVYKGRLADGSLVAVKRLKEERTPGGELQFQTEVEMISMAVHRNLLRLRGFCMTPTERLLVYPYMANGSVASRLRERPPSEPPLDWRTRRRIALGSARGLSYLHDHCDPKIIHRDVKAANILLDEDFEAVVGDFGLAKLMDYKDTHVTTAVRGTIGHIAPEYLSTGKSSEKTDVFGYGIMLLELITGQRAFDLARLANDDDVMLLDWVKGLLKEKRLEMLVDPDLQSNYIDVEVESLIQVALLCTQGSPTERPKMAEVVRMLEGDGLAERWEEWQKIEVVRQEVELGPHRNSEWIVDSTDNLHAVELSGPR |
| 6392 | sp|P61769|B2MG\_HUMAN | MSRSVALAVLALLSLSGLEAIQRTPKIQVYSRHPAENGKSNFLNCYVSGFHPSDIEVDLLKNGERIEKVEHSDLSFSKDWSFYLLYYTEFTPTEKDEYACRVNHVTLSQPKIVKWDRDM |
| 6393 | sp|A0A1S6M251|B4GT5\_PIG | MRVRRGLLRLPRRSLLAALFFFSLSSSLLYFVYVAPGIVNTYLFMMQAQGILIRDNMRTIGAQVYEQVVRSAYAKRNSSVNDSDYPLDLNHSETFLQTTTFLPEDFTYFANHTCPERLPSMKGPIDINMSEIGMDTIHELFSKDPAIKLGGHWKPSDCVPRWKVAILIPFRNRHEHLPVLLRHLIPMLQRQRLQFAFYVVEQVGTQPFNRAMLFNVGFQEAMKDLDWDCLVFHDVDHIPENDRNYYGCGQMPRHFATKLDKYMYLLPYNEFFGGVSGLTVEQFRKINGFPNAFWGWGGEDDDLWNRVQNAGYSVSRPEGDTGKYKSIPYHHRGEVQFLGRYALLRKSKERQGLDGLNNLNYFANITYDALYKNITVNLTPELAQVTEY |
| 6394 | sp|P09803|CADH1\_MOUSE | MGARCRSFSALLLLLQVSSWLCQELEPESCSPGFSSEVYTFPVPERHLERGHVLGRVRFEGCTGRPRTAFFSEDSRFKVATDGTITVKRHLKLHKLETSFLVRARDSSHRELSTKVTLKSMGHHHHRHHHRDPASESNPELLMFPSVYPGLRRQKRDWVIPPISCPENEKGEFPKNLVQIKSNRDKETKVFYSITGQGADKPPVGVFIIERETGWLKVTQPLDREAIAKYILYSHAVSSNGEAVEDPMEIVITVTDQNDNRPEFTQEVFEGSVAEGAVPGTSVMKVSATDADDDVNTYNAAIAYTIVSQDPELPHKNMFTVNRDTGVISVLTSGLDRESYPTYTLVVQAADLQGEGLSTTAKAVITVKDINDNAPVFNPSTYQGQVPENEVNARIATLKVTDDDAPNTPAWKAVYTVVNDPDQQFVVVTDPTTNDGILKTAKGLDFEAKQQYILHVRVENEEPFEGSLVPSTATVTVDVVDVNEAPIFMPAERRVEVPEDFGVGQEITSYTAREPDTFMDQKITYRIWRDTANWLEINPETGAIFTRAEMDREDAEHVKNSTYVALIIATDDGSPIATGTGTLLLVLLDVNDNAPIPEPRNMQFCQRNPQPHIITILDPDLPPNTSPFTAELTHGASVNWTIEYNDAAQESLILQPRKDLEIGEYKIHLKLADNQNKDQVTTLDVHVCDCEGTVNNCMKAGIVAAGLQVPAILGILGGILALLILILLLLLFLRRRTVVKEPLLPPDDDTRDNVYYYDEEGGGEEDQDFDLSQLHRGLDARPEVTRNDVAPTLMSVPQYRPRPANPDEIGNFIDENLKAADSDPTAPPYDSLLVFDYEGSGSEAASLSSLNSSESDQDQDYDYLNEWGNRFKKLADMYGGGEDD |
| 6395 | sp|P62957|CCG7\_RAT | MSHCSSRALTLLSSVFGACGLLLVGIAVSTDYWLYMEEGTVLPQNQTTEVKMALHAGLWRVCFFAGREKGRCVASEYFLEPEINLVTENTENILKTVRTATPFPMVSLFLVFTAFVISNIGHIRPQRTILAFVSGIFFILSGLSLVVGLVLYISSINDEVMNRPSSSEQYFHYRYGWSFAFAASSFLLKEGAGVMSVYLFTKRYAEEEMYRPHPAFYRPRLSDCSDYSGQFLQPEAWRRGRSPSDISSDVSIQMTQNYPPAIKYPDHLHISTSPC |
| 6396 | sp|P10288|CADH2\_CHICK | MCRIAGTPPRILPPLALMLLAALQQAPIKATCEDMLCKMGFPEDVHSAVVSRSVHGGQPLLNVRFQSCDENRKIYFGSSEPEDFRVGEDGVVYAERSFQLSAEPTEFVVSARDKETQEEWQMKVKLTPEPAFTGASEKDQKKIEDIIFPWQQYKDSSHLKRQKRDWVIPPINLPENSRGPFPQELVRIRSDRDKSLSLRYSVTGPGADQPPTGIFIINPISGQLSVTKPLDREQIASFHLRAHAVDVNGNQVENPIDIVINVIDMNDNRPEFLHQVWNGTVPEGSKPGTYVMTVTAIDADDPNAQNGMLRYRILSQAPSSPSPNMFTINNETGDIITVAAGLDREKVQQYTLIIQATDMEGNPTYGLSNTATAVITVTDVNDNPPEFTAMTFYGEVPENRVDVIVANLTVTDKDQPHTPAWNARYQMTGGDPTGQFTILTDPNSNDGLVTVVKPIDFETNRMFVLTVAAENQVPLAKGIQHPPQSTATVSITVIDVNESPYFVPNPKLVRQEEGLLAGSMLTTFTARDPDRYMQQTSLRYSKLSDPANWLKIDPVNGQITTTAVLDRESIYVQNNMYNATFLASDNGIPPMSGTGTLQIYLLDINDNAPQVNPKEATTCETLQPNAINITAVDPDIDPNAGPFAFELPDSPPSIKRNWTIVRISGDHAQLSLRIRFLEAGIYDVPIVITDSGNPHASSTSVLKVKVCQCDINGDCTDVDRIVGAGLGTGAIIAILLCIIILLILVLMFVVWMKRRDKERQAKQLLIDPEDDVRDNILKYDEEGGGEEDQDYDLSQLQQPDTVEPDAIKPVGIRRLDERPIHAEPQYPVRSAAPHPGDIGDFINEGLKAADNDPTAPPYDSLLVFDYEGSGSTAGSLSSLNSSSSGGEQDYDYLNDWGPRFKKLADMYGGGDD |
| 6397 | sp|Q9CA61|C98A8\_ARATH | MIIYLISLLPIIVATLMLYQRWWRSNIPPGPKPKFLLGNLHQMKPLWTHSFSEWSETYGPIISVWIGSQLTVVVSSSDLARQVLRDKDHQLSNRHRIARMTQTGTDLVWSDYSPHYVKLRKLCTLELFSLKSIENFRSLREMEARSMVVSILKDLMSNSGDDQERKPVIVRKYLAAVVLNTISRLMIGKEFGSEEGKEFKAIVEKEHLLSGSGTILDHVWWLKWVSSWFFSDKEFLAHKDRRTKWFRGAIMVEEDIEIEDHRGFVRKLLVLKEQKELSEETVGGLVWNMLTAGADTTAVVIEWAMAEMIKCPTVQEKAQQELDSVVGSERLMTESDIPILPYLQCVVKEALRLHPSTPLMLPHKASETVWVGGYKVPKGATVYVNVQAIGRDPANWINPYEFRPERFLQEETDVKGRDFRVLPFGSGRRMCPAAQLSMNLMTLVMGNLLHCFSWSSPVPGERIDMSENPGLLCNMRTPLQALALPRAAARAIPLPLD |
| 6398 | sp|P56539|CAV3\_HUMAN | MMAEEHTDLEAQIVKDIHCKEIDLVNRDPKNINEDIVKVDFEDVIAEPVGTYSFDGVWKVSYTTFTVSKYWCYRLLSTLLGVPLALLWGFLFACISFCHIWAVVPCIKSYLIEIQCISHIYSLCIRTFCNPLFAALGQVCSSIKVVLRKEV |
| 6399 | sp|Q39254|CAX2\_ARATH | MSCCKVPVLIEAQVEMVSANELENKSLFRQEEDATQTKEASLMEQGSLSTSFPQHTPKAPKNSVLNSIKIVIFCNKLNLLLPFGPLAILVHYMIDSKGWVFLLTLVGITPLAERLGYATEQLACYTGPTVGGLLNATFGNVTELIISIFALKNGMIRVVQLTLLGSILSNMLLVLGCAFFCGGLVFYQKDQVFDKGIATVNSGLLLMAVMGILFPAVLHYTHSEVHAGSSELALSRFSSCIMLIAYAAYLFFQLKSQSNSYSPLDEESNQNEETSAEDEDPEISKWEAIIWLSILTAWVSLLSGYLVDAIEGASVSWNIPIAFISTILLPIVGNAAEHAGAIMFAMKDKLDLSLGVAIGSSIQISMFAVPFCVVIGWMMGQQMDLNFQLFETAMLFITVIVVAFFLQEGSSNYFKGLMLILCYLIVAASFFVHEDPHQDGI |
| 6400 | sp|P35565|CALX\_RAT | MEGKWLLCLLLVLGTAAIQAHDGHDDDMIDIEDDLDDVIEEVEDSKSKSDTSTPPSPKVTYKAPVPTGEVYFADSFDRGSLSGWILSKAKKDDTDDEIAKYDGKWEVDEMKETKLPGDKGLVLMSRAKHHAISAKLNKPFLFDTKPLIVQYEVNFQNGIECGGAYVKLLSKTSELNLDQFHDKTPYTIMFGPDKCGEDYKLHFIFRHKNPKTGVYEEKHAKRPDADLKTYFTDKKTHLYTLILNPDNSFEILVDQSVVNSGNLLNDMTPPVNPSREIEDPEDRKPEDWDERPKIADPDAVKPDDWDEDAPSKIPDEEATKPEGWLDDEPEYIPDPDAEKPEDWDEDMDGEWEAPQIANPKCESAPGCGVWQRPMIDNPNYKGKWKPPMIDNPNYQGIWKPRKIPNPDFFEDLEPFRMTPFSAIGLELWSMTSDIFFDNFIISGDRRVVDDWANDGWGLKKAADGAAEPGVVGQMLEAAEERPWLWVVYILTVALPVFLVILFCCSGKKQSNAMEYKKTDAPQPDVKDEEGKEEEKNKGDEEEEEEKLEEKQKSDAEEDGGTGSQDEEDSKPKAEEDEILNRSPRNRKPRRE |
| 6401 | sp|Q2QLG6|CAV1\_CALJA | MSGGKYVDSEGHLYTVPIREQGNIYKPNNKAMADELSEKQVYDAHTKEIDLVNRDPKHLNDDVVKIDFEDVIAEPEGTHSFDGIWKASFTTFTVTKYWFYRLLSALFGIPMALIWGIYFAILSFLHIWAVVPCIKSFLIEIQCISRVYSIYIHTVCDPLFEAIGKIFSNVRISLQKEI |
| 6402 | sp|P54289|CA2D1\_HUMAN | MAAGCLLALTLTLFQSLLIGPSSEEPFPSAVTIKSWVDKMQEDLVTLAKTASGVNQLVDIYEKYQDLYTVEPNNARQLVEIAARDIEKLLSNRSKALVRLALEAEKVQAAHQWREDFASNEVVYYNAKDDLDPEKNDSEPGSQRIKPVFIEDANFGRQISYQHAAVHIPTDIYEGSTIVLNELNWTSALDEVFKKNREEDPSLLWQVFGSATGLARYYPASPWVDNSRTPNKIDLYDVRRRPWYIQGAASPKDMLILVDVSGSVSGLTLKLIRTSVSEMLETLSDDDFVNVASFNSNAQDVSCFQHLVQANVRNKKVLKDAVNNITAKGITDYKKGFSFAFEQLLNYNVSRANCNKIIMLFTDGGEERAQEIFNKYNKDKKVRVFTFSVGQHNYDRGPIQWMACENKGYYYEIPSIGAIRINTQEYLDVLGRPMVLAGDKAKQVQWTNVYLDALELGLVITGTLPVFNITGQFENKTNLKNQLILGVMGVDVSLEDIKRLTPRFTLCPNGYYFAIDPNGYVLLHPNLQPKPIGVGIPTINLRKRRPNIQNPKSQEPVTLDFLDAELENDIKVEIRNKMIDGESGEKTFRTLVKSQDERYIDKGNRTYTWTPVNGTDYSLALVLPTYSFYYIKAKLEETITQARYSETLKPDNFEESGYTFIAPRDYCNDLKISDNNTEFLLNFNEFIDRKTPNNPSCNADLINRVLLDAGFTNELVQNYWSKQKNIKGVKARFVVTDGGITRVYPKEAGENWQENPETYEDSFYKRSLDNDNYVFTAPYFNKSGPGAYESGIMVSKAVEIYIQGKLLKPAVVGIKIDVNSWIENFTKTSIRDPCAGPVCDCKRNSDVMDCVILDDGGFLLMANHDDYTNQIGRFFGEIDPSLMRHLVNISVYAFNKSYDYQSVCEPGAAPKQGAGHRSAYVPSVADILQIGWWATAAAWSILQQFLLSLTFPRLLEAVEMEDDDFTASLSKQSCITEQTQYFFDNDSKSFSGVLDCGNCSRIFHGEKLMNTNLIFIMVESKGTCPCDTRLLIQAEQTSDGPNPCDMVKQPRYRKGPDVCFDNNVLEDYTDCGGVSGLNPSLWYIIGIQFLLLWLVSGSTHRLL |
| 6403 | sp|P15381|CAC1C\_RABIT | MLRALVQPATPAYQPLPSHLSAETESTCKGTVVHEAQLNHFYISPGGSNYGSPRPAHANMNANAAAGLAPEHIPTPGAALSWQAAIDAARQAKLMGSAGNATISTVSSTQRKRQQYGKPKKQGSTTATRPPRALLCLTLKNPIRRACISIVEWKPFEIIILLTIFANCVALAIYIPFPEDDSNATNSNLERVEYLFLIIFTVEAFLKVIAYGLLFHPNAYLRNGWNLLDFIIVVVGLFSAILEQATKADGANALGGKGAGFDVKALRAFRVLRPLRLVSGVPSLQVVLNSIIKAMVPLLHIALLVLFVIIIYAIIGLELFMGKMHKTCYNQEGVADVPAEDDPSPCALETGHGRQCQNGTVCKPGWDGPKHGITNFDNFAFAMLTVFQCITMEGWTDVLYWMQDAMGYELPWVYFVSLVIFGSFFVLNLVLGVLSGEFSKEREKAKARGDFQKLREKQQLEEDLKGYLDWITQAEDIDPENEDEGMDEEKPRNMSMPTSETESVNTENVAGGDIEGENCGARLAHRISKSKFSRYWRRWNRFCRRKCRAAVKSNVFYWLVIFLVFLNTLTIASEHYNQPHWLTEVQDTANKALLALFTAEMLLKMYSLGLQAYFVSLFNRFDCFIVCGGILETILVETKVMSPLGISVLRCVRLLRIFKITRYWNSLSNLVASLLNSVRSIASLLLLLFLFIIIFSLLGMQLFGGKFNFDEMQTRRSTFDNFPQSLLTVFQILTGEDWNSVMYDGIMAYGGPSFPGMLVCIYFIILFICGNYILLNVFLAIAVDNLADAESLTSAQKEEEEEKERKKLARTASPEKKQEVVGKPALEEAKEEKIELKSITADGESPPTTKINMDDLQPNESEDKSPYPNPETTGEEDEEEPEMPVGPRPRPLSELHLKEKAVPMPEASAFFIFSPNNRFRLQCHRIVNDTIFTNLILFFILLSSISLAAEDPVQHTSFRNHILFYFDIVFTTIFTIEIALKMTAYGAFLHKGSFCRNYFNILDLLVVSVSLISFGIQSSAINVVKILRVLRVLRPLRAINRAKGLKHVVQCVFVAIRTIGNIVIVTTLLQFMFACIGVQLFKGKLYTCSDSSKQTEAECKGNYITYKDGEVDHPIIQPRSWENSKFDFDNVLAAMMALFTVSTFEGWPELLYRSIDSHTEDKGPIYNYRVEISIFFIIYIIIIAFFMMNIFVGFVIVTFQEQGEQEYKNCELDKNQRQCVEYALKARPLRRYIPKNQHQYKVWYVVNSTYFEYLMFVLILLNTICLAMQHYGQSCLFKIAMNILNMLFTGLFTVEMILKLIAFKPKGYFSDPWNVFDFLIVIGSIIDVILSETNPAEHTQCSPSMNAEENSRISITFFRLFRVMRLVKLLSRGEGIRTLLWTFIKSFQALPYVALLIVMLFFIYAVIGMQVFGKIALNDTTEINRNNNFQTFPQAVLLLFRCATGEAWQDIMLACMPGKKCAPESEPHNSTEGETPCGSSFAVFYFISFYMLCAFLIINLFVAVIMDNFDYLTRDWSILGPHHLDEFKRIWAEYDPEAKGRIKHLDVVTLLRRIQPPLGFGKLCPHRVACKRLVSMNMPLNSDGTVMFNATLFALVRTALRIKTEGNLEQANEELRAIIKKIWKRTSMKLLDQVVPPAGDDEVTVGKFYATFLIQEYFRKFKKRKEQGLVGKPSQRNALSLQAGLRTLHDIGPEIRRAISGDLTAEEELDKAMKEAVSAASEDDIFRRAGGLFGNHVSYYQSDSRSAFPQTFTTQRPLHISKAGNNQGDTESPSHEKLVDSTFTPSSYSSTGSNANINNANNTALGRLPRPAGYPSTVSTVEGHGSPLSPAVRAQEAAWKLSSKRCHSQESQIAMACQEGASQDDNYDVRIGEDAECCSEPSLLSTEMLSYQDDENRQLAPPEEEKRDIRLSPKKGFLRSASLGRRASFHLECLKRQKNQGGDISQKTVLPLHLVHHQALAVAGLSPLLQRSHSPTSLPRPCATPPATPGSRGWPPQPIPTLRLEGADSSEKLNSSFPSIHCGSWSGENSPCRGDSSAARRARPVSLTVPSQAGAQGRQFHGSASSLVEAVLISEGLGQFAQDPKFIEVTTQELADACDLTIEEMENAADDILSGGARQSPNGTLLPFVNRRDPGRDRAGQNEQDASGACAPGCGQSEEALADRRAGVSSL |
| 6404 | sp|P27521|CA4\_ARATH | MATVTTHASASIFRPCTSKPRFLTGSSGRLNRDLSFTSIGSSAKTSSFKVEAKKGEWLPGLASPDYLTGSLAGDNGFDPLGLAEDPENLKWFVQAELVNGRWAMLGVAGMLLPEVFTKIGIINVPEWYDAGKEQYFASSSTLFVIEFILFHYVEIRRWQDIKNPGSVNQDPIFKQYSLPKGEVGYPGGIFNPLNFAPTQEAKEKELANGRLAMLAFLGFVVQHNVTGKGPFENLLQHLSDPWHNTIVQTFN |
| 6405 | sp|P03612|CAPSD\_BPMS2 | MASNFTQFVLVDNGGTGDVTVAPSNFANGVAEWISSNSRSQAYKVTCSVRQSSAQNRKYTIKVEVPKVATQTVGGVELPVAAWRSYLNMELTIPIFATNSDCELIVKAMQGLLKDGNPIPSAIAANSGIY |
| 6406 | sp|O88992|C1QRF\_MOUSE | MLLVLVVLIPVLVSSGGPDGHYEMLGTCRMVCDPYPARGPGAGARSDGGDALSEQSGAPPPSTLVQGPQGKPGRTGKPGPPGPPGDRGPPGPVGPPGEKGEPGKPGPPGLPGSGGSGAISTATYTTVPRVAFYAGLKNPHEGYEVLKFDDVVTNLGNNYDAASGKFTCNIPGTYFFTYHVLMRGGDGTSMWADLCKNGQVRASAIAQDADQNYDYASNSVILHLDAGDEVFIKLDGGKAHGGNSNKYSTFSGFIIYSD |
| 6407 | sp|Q0DBF4|C7018\_ORYSJ | MESMLVAGAGAAAVAAVGGLVAAAALADKLVAAPPPRKNRANPPPAVPGLPIIGNLHQLKEKKPHQTFAKWSETYGPIYTIKTGASPVVVLNSTEVAKEAMIDKFSSISTRKLPKAMSVLTRKSMVAISDYGDYQKMAKRNIMIGMLGFNAQKQFRGTRERMISNVLSTLHKLVSLDPHSPLNFRDVYINELFSLSLIQSLGEDVSSVYVEEFGREISKDEIFDVLVHEMMMCAVEADWRDYFPYLSWLPNKSFDTIVSTTEFRRDAIMNALIKKQKERIARGEARASYIDFLLEAERSAQLTDDQLMLLLSESILAAADTVLVTTEWTMYEIAKNPDKQELLYQEIREACGGEAVTEDDLPRLPYLNAVFHETLRLHSPVPVLPPRFVHDDTTLAGYDIAAGTQMMINVYACHMDEKVWESPGEWSPERFLGEGFEVADRYKTMAFGAGRRTCAGSLQAMNIACVAVARLVQELEWRLREGDGDKEDTMQFTALKLDPLHVHLKPRGRM |
| 6408 | sp|P22681|CBL\_HUMAN | MAGNVKKSSGAGGGSGSGGSGSGGLIGLMKDAFQPHHHHHHHLSPHPPGTVDKKMVEKCWKLMDKVVRLCQNPKLALKNSPPYILDLLPDTYQHLRTILSRYEGKMETLGENEYFRVFMENLMKKTKQTISLFKEGKERMYEENSQPRRNLTKLSLIFSHMLAELKGIFPSGLFQGDTFRITKADAAEFWRKAFGEKTIVPWKSFRQALHEVHPISSGLEAMALKSTIDLTCNDYISVFEFDIFTRLFQPWSSLLRNWNSLAVTHPGYMAFLTYDEVKARLQKFIHKPGSYIFRLSCTRLGQWAIGYVTADGNILQTIPHNKPLFQALIDGFREGFYLFPDGRNQNPDLTGLCEPTPQDHIKVTQEQYELYCEMGSTFQLCKICAENDKDVKIEPCGHLMCTSCLTSWQESEGQGCPFCRCEIKGTEPIVVDPFDPRGSGSLLRQGAEGAPSPNYDDDDDERADDTLFMMKELAGAKVERPPSPFSMAPQASLPPVPPRLDLLPQRVCVPSSASALGTASKAASGSLHKDKPLPVPPTLRDLPPPPPPDRPYSVGAESRPQRRPLPCTPGDCPSRDKLPPVPSSRLGDSWLPRPIPKVPVSAPSSSDPWTGRELTNRHSLPFSLPSQMEPRPDVPRLGSTFSLDTSMSMNSSPLVGPECDHPKIKPSSSANAIYSLAARPLPVPKLPPGEQCEGEEDTEYMTPSSRPLRPLDTSQSSRACDCDQQIDSCTYEAMYNIQSQAPSITESSTFGEGNLAAAHANTGPEESENEDDGYDVPKPPVPAVLARRTLSDISNASSSFGWLSLDGDPTTNVTEGSQVPERPPKPFPRRINSERKAGSCQQGSGPAASAATASPQLSSEIENLMSQGYSYQDIQKALVIAQNNIEMAKNILREFVSISSPAHVAT |
| 6409 | sp|Q8IYX3|CC116\_HUMAN | MARCRHHSGYLADDEASHSMCSARVQLPKKPLVPEMRPACKPGRVPHPPSTCGSSALQGQRRNKRHPQPFGHFLDFLTESQVLDSLETVVEKATERMAAMKTEAGVPLVEVQDPVEVPSGGRRAHARPSLSTVHRHRVRPTLCTGHPNNYPSSSSSMSNCHSSLMAGCLGSHSRDSDLGAQGSLPPVRDKLLLEKNLKRLLQLEREGKGLSQSCSQRDSLLWDSLGSQTSFQWTQEQPLSWFSGLLGSSSGVPEASEPRPGEQEPIFRKREFNKEIKSLLSQLESLDLPGYCPLREPHRTLNFLADHRLFPALQSVVSQAVDKLRGAHCRDGRPLFPTSLEPTSDLPPLGSEPAKPTNGGQPYASPRPTVSSPKMLQRKRKDRGGSPSMSSAQVATRFKLKSPCSSSRFTKKKPLPSISSKSSMSHFSNRLYEELADFLTQQAASLVIRKYEFEKDLSKQLGFFSFPITHVLRDLSLGLKKVKGSRIHLSSETHRSCLLRKLEESKRARQASRLSTSHCSTETPSVQQEPATHTAQDQATEPCRSLYTNLPASRQLSPLEPKLYMSACTGMGSSPPKSKDMDNEGRDKAEIEDEDEDEFKDEDQDEDKDEDGV |
| 6410 | sp|Q9Y376|CAB39\_HUMAN | MPFPFGKSHKSPADIVKNLKESMAVLEKQDISDKKAEKATEEVSKNLVAMKEILYGTNEKEPQTEAVAQLAQELYNSGLLSTLVADLQLIDFEGKKDVAQIFNNILRRQIGTRTPTVEYICTQQNILFMLLKGYESPEIALNCGIMLRECIRHEPLAKIILWSEQFYDFFRYVEMSTFDIASDAFATFKDLLTRHKLLSAEFLEQHYDRFFSEYEKLLHSENYVTKRQSLKLLGELLLDRHNFTIMTKYISKPENLKLMMNLLRDKSRNIQFEAFHVFKVFVANPNKTQPILDILLKNQAKLIEFLSKFQNDRTEDEQFNDEKTYLVKQIRDLKRPAQQEA |
| 6411 | sp|P62152|CALM\_DROME | MADQLTEEQIAEFKEAFSLFDKDGDGTITTKELGTVMRSLGQNPTEAELQDMINEVDADGNGTIDFPEFLTMMARKMKDTDSEEEIREAFRVFDKDGNGFISAAELRHVMTNLGEKLTDEEVDEMIREADIDGDGQVNYEEFVTMMTSK |
| 6412 | sp|O77086|C3G\_DROME | MPQFDESFLSDCALADRWHFYSYTVKQLPPHPSPKPNRNRNPYPSGASHDDHQHQLHHHHHQQHHHNHHRLWKTQRQSWSPRDTNNNHSLTSNNCNCNSSNTCNSISATGNTLHSIKFHRRRKYKKLARLALSTPAIPLQMDVDVDVNVTVDREFDMEMDTPVPLKNAVCHGSISSPSTPGTCSSGIGVGGGGCSSSSNNSINSGSYSTACTPPPPTHQHHSQHQQLQGTPGGSSRVGGAGAGGGGGVPPAPPSAGSSGHKNSLKGTKLARRARSFKDDLIEKISLMRTTNNTLGRSHSPHSPRTKHGTKAPPTTEEVLRSTQTLETHVKDISNALKHFRDVILKKKLEVLPGNGTVILETIASMYSVIQTYTLNENSAIMSSATLQVYQSLGKLIKLCDEVMLSEDSGECASLSNENVREVIDLLEDAVRNLVTLAQGKLKEQDQCAFRYSGSGLGGIGAAAEIMGAVTASPGASVPGTGVMRVSAAESAAQRTSLPDIALTPKERDILEQHNVNPMRGSHSTESILRDTSPPPKPPLPNRASNPPPLPPKRRSQPSASAGTVGVGCSSSTSTSNQASPLPYAQSHNISLNSDLDCSSNISLLNYGVDRLSVRSRSPDENSQCSFDSALNHSREEEDQQQQHQHLRSFPKLAAMMDEDMDKMVSYSAAIDDKTQTPLSTGGGIAGVAGGTGGAGEGVAAAASGDGETNSNRHSNESGFVSMREFRTSTQTTDYSVQSSTKSSSSNSEIAFSISESTAVGSSSEYQQISQLVSHSQRHISSSSSSCTTTTTSSSTTTGYGSSEVEQLQQQQQQQTTTTPADLAPALPPKSIQRSSLTRHDSPGVGDELDEVQSSSGWASHRSSQSEVAELRQLSPLHHLNHHPHTASAGQLQQWHSKHHSLIEGPRLQLAGSGSCSAFDQRHLDQEPPPLPIKKKHILAYMEICSASTRSIEQHRHTMHACNISRNISHSQTMNIMPMSKELSPELEMPPALPPKNYKQRKATSMVASPTLQPVIVTTPPPSPKPTLGENGSTGRPDSRMATVCEELNDAVASEDAMPEPRSPVLDSNENVSAVDDGQTFYCHSHQLPAAEMEMSEDASSADNQPITTPQVLEEQEEPTAESRPLVAVHESVKPANVDEDEEAERADMLINMLEEVNITRYLILKKREEDGPEVKGGYIDALIVHASRVQKVADNAFCEAFITTFRTFIQPIDVIEKLTHRYTYFFCQVQDNKQKAAKETFALLVRVVNDLTSTDLTSQLLSLLVEFVYQLVCSGQLYLAKLLRNKFVEKVTLYKEPKVYGFVGELGGAGSVGGAGIAGSGGCSGTAGGGNQPSLLDLKSLEIAEQMTLLDAELFTKIEIPEVLLFAKDQCEEKSPNLNKFTEHFNKMSYWARSKILRLQDAKEREKHVNKFIKIMKHLRKMNNYNSYLALLSALDSGPIRRLEWQKGITEEVRSFCALIDSSSSFRAYRQALAETNPPCIPYIGLILQDLTFVHVGNQDYLSKGVINFSKRWQQYNIIDNMKRFKKCAYPFRRNERIIRFFDNFKDFMGEEEMWQISEKIKPRGRRPVNY |
| 6413 | sp|P0DP27|CALM2\_MOUSE | MADQLTEEQIAEFKEAFSLFDKDGDGTITTKELGTVMRSLGQNPTEAELQDMINEVDADGNGTIDFPEFLTMMARKMKDTDSEEEIREAFRVFDKDGNGYISAAELRHVMTNLGEKLTDEEVDEMIREADIDGDGQVNYEEFVQMMTAK |
| 6414 | sp|Q920D5|CASPC\_RAT | MAAKRTHERDPIYKIKGLAKDMLDGVFDDLMDKNVLNGDELLKIGEGASLILSKAENLVESFFEKTEMAGKIFAGHIANSDKQLSLQFPSDDEEDELQKMFTPSSASESRGKVEDEEMEVNVGVAHASHLMLTVPQGIQSTEVQDSLKLCSRDWFCTMKTERAEEIYPVMEKEGRTRLALIICNKKFDYLFDRDDAETDILNMKELLQNLGYSVVIKENLTAQEMETELMKFAGRPEHQSSDSTFLVFMSHGILEGICGVKHRNKKPDVLHDDTIFTIFNNSNCPSLRNKPKILIMQACRGRHTGTIWVSTSKGIATADTDEECVLSHRWNNSITKAHVETDFIAFKSSTPHNISWKVGKSGSLFISKLIDCFKKYCWCYHLEEIFRKVQYSFEVPGELTQMPTIERVSMTRYFYLFPGN |
| 6415 | sp|Q9QY96|CASR\_MOUSE | MAWFGYCLALLALTWHSSAYGPDQRAQKKGDIILGGLFPIHFGVAAKDQDLKSRPESVECIRYNFRGFRWLQAMIFAIEEINSSPALLPNMTLGYRIFDTCNTVSKALEATLSFVAQNKIDSLNLDEFCNCSEHIPSTIAVVGATGSGVSTAVANLLGLFYIPQVSYASSSRLLSNKNQFKSFLRTIPNDEHQATAMADIIEYFRWNWVGTIAADDDYGRPGIEKFREEAEERDICIDFSELISQYSDEEEIQQVVEVIQNSTAKVIVVFSSGPDLEPLIKEIVRRNITGRIWLASEAWASSSLIAMPEYFHVVGGTIGFGLKAGQIPGFREFLQKVHPRKSVHNGFAKEFWEETFNCHLQDGAKGPLPVDTFVRSHEEGGNRLLNSSTAFRPLCTGDENINSVETPYMDYEHLRISYNVYLAVYSIAHALQDIYTCLPGRGLFTNGSCADIKKVEAWQVLKHLRHLNFTNNMGEQVTFDECGDLVGNYSIINWHLSPEDGSIVFKEVGYYNVYAKKGERLFINEGKILWSGFSREVPFSNCSRDCQAGTRKGIIEGEPTCCFECVECPDGEYSGETDASACDKCPDDFWSNENHTSCIAKEIEFLAWTEPFGIALTLFAVLGIFLTAFVLGVFIKFRNTPIVKATNRELSYLLLFSLLCCFSSSLFFIGEPQDWTCRLRQPAFGISFVLCISCILVKTNRVLLVFEAKIPTSFHRKWWGLNLQFLLVFLCTFMQIVICIIWLYTAPPSSYRNHELEDEIIFITCHEGSLMALGSLIGYTCLLAAICFFFAFKSRKLPENFNEAKFITFSMLIFFIVWISFIPAYASTYGKFVSAVEVIAILAASFGLLACIFFNKVYIILFKPSRNTIEEVRSSTAAHAFKVAARATLRRPNISRKRSSSLGGSTGSIPSSSISSKSNSEDRFPQPERQKQQQPLALTQQEQQQQPLTLQPQQQQQPQQPRCKQKVIFGSGTVTFSLSFDEPQKNAMAHRNSMRQNSLEAQKSNDTLNRHQALLPLQCAEADSEMTIQETGLQGPMVGDHQPEIESPDEMSPALVMSTSRSFVISGGGSSVTENILHS |
| 6416 | sp|P15087|CBPE\_RAT | MAGRGGRVLLALCAALVAGGWLLAAEAQEPGAPAAGMRRRRRLQQEDGISFEYHRYPELREALVSVWLQCTAISRIYTVGRSFEGRELLVIELSDNPGVHEPGEPEFKYIGNMHGNEAVGRELLIFLAQYLCNEYQRGNETIVNLIHSTRIHIMPSLNPDGFEKAASQPGELKDWFVGRSNAQGIDLNRNFPDLDRIVYVNEKEGGPNNHLLKNLKKIVDQNSKLAPETKAVIHWIMDIPFVLSANLHGGDLVANYPYDETRSGTAHEYSSCPDDAIFQSLARAYSSFNPVMSDPNRPPCRKNDDDSSFVDGTTNGGAWYSVPGGMQDFNYLSSNCFEITVELSCEKFPPEETLKSYWEDNKNSLINYLEQIHRGVKGFVRDLQGNPIANATISVDGIDHDVTSAKDGDYWRLLVPGNYKLTASAPGYLAITKKVAVPFSPAVGVDFELESFSERKEEEKEELMEWWKMMSETLNF |
| 6417 | sp|Q6F5E8|CARL2\_HUMAN | MAQTPDGISCELRGEITRFLWPKEVELLLKTWLPGEGAVQNHVLALLRWRAYLLHTTCLPLRVDCTFSYLEVQAMALQETPPQVTFELESLRELVLEFPGVAALEQLAQHVAAAIKKVFPRSTLGKLFRRPTPASMLARLERSSPSESTDPCSPCGGFLETYEALCDYNGFPFREEIQWDVDTIYHRQGCRHFSLGDFSHLGSRDLALSVAALSYNLWFRCLSCVDMKLSLEVSEQILHMMSQSSHLEELVLETCSLRGDFVRRLAQALAGHSSSGLRELSLAGNLLDDRGMTALSRHLERCPGALRRLSLAQTGLTPRGMRALGRALATNAAFDSTLTHLDLSGNPGALGASEDSGGLYSFLSRPNVLSFLNLAGTDTALDTVRGCSVGGWMTGRADWRAGRGGLGPPAGVANSLPPQLFAAVSRGCCTSLTHLDASRNVFSRTKSRAAPAALQLFLSRARTLRHLGLAGCKLPPDALRALLDGLALNTHLRDLHLDLSACELRSAGAQVIQDLVCDAGAVSSLDLADNGFGSDMVTLVLAIGRSRSLRHVALGRNFNVRCKETLDDVLHRIVQLMQDDDCPLQSLSVAESRLKLGASVLLRALATNPNLTALDISGNAMGDAGAKLLAKALRVNSRLRSVVWDRNHTSALGLLDVAQALEQNHSLKAMPLPLNDVAQAQRSRPELTARAVHQIQACLLRNNRADPASSDHTTRLQPLGLVSDPSEQEVNELCQSVQEHVELLGCGAGPQGEAAVRQAEDAIQNANFSLSILPILYEAGSSPSHHWQLGQKLEGLLRQVGEVCRQDIQDFTQATLDTARSLCPQMLQGSSWREQLEGVLAGSRGLPELLPEQLLQDAFTRLRDMRLSITGTLAESIVAQALAGLSAARDQLVESLAQQATVTMPPALPAPDGGEPSLLEPGELEGLFFPEEKEEEKEKDDSPPQKWPELSHGLHLVPFIHSAAEEAEPEPELAAPGEDAEPQAGPSARGSPSPAAPGPPAGPLPRMDLPLAGQPLRHPTRARPRPRRQHHHRPPPGGPQVPPALPQEGNGLSARVDEGVEEFFSKRLIQQDRLWAPEEDPATEGGATPVPRTLRKKLGTLFAFKKPRSTRGPRTDLETSPGAAPRTRKTTFGDLLRPPTRPSRGEELGGAEGDTSSPDPAGRSRPRYTRDSKAYSMILLPAEEEATLGARPDKRRPLERGETELAPSFEQRVQVMLQRIGVSRGSGGAEGKRKQSKDGEIKKAGSDGDIMDSSTEAPPISIKSRTHSVSADPSCRPGPGSQGPESATWKTLGQQLNAELRSRGWGQQDGPGPPSPGQSPSPCRTSPSPDSLGLPEDPCLGPRNEDGQLRPRPLSAGRRAVSVHEDQLQAPAERPLRLQRSPVLKRRPKLEAPPSPSLGSGLGTEPLPPQPTEPSSPERSPPSPATDQRGGGPNP |
| 6418 | sp|P04040|CATA\_HUMAN | MADSRDPASDQMQHWKEQRAAQKADVLTTGAGNPVGDKLNVITVGPRGPLLVQDVVFTDEMAHFDRERIPERVVHAKGAGAFGYFEVTHDITKYSKAKVFEHIGKKTPIAVRFSTVAGESGSADTVRDPRGFAVKFYTEDGNWDLVGNNTPIFFIRDPILFPSFIHSQKRNPQTHLKDPDMVWDFWSLRPESLHQVSFLFSDRGIPDGHRHMNGYGSHTFKLVNANGEAVYCKFHYKTDQGIKNLSVEDAARLSQEDPDYGIRDLFNAIATGKYPSWTFYIQVMTFNQAETFPFNPFDLTKVWPHKDYPLIPVGKLVLNRNPVNYFAEVEQIAFDPSNMPPGIEASPDKMLQGRLFAYPDTHRHRLGPNYLHIPVNCPYRARVANYQRDGPMCMQDNQGGAPNYYPNSFGAPEQQPSALEHSIQYSGEVRRFNTANDDNVTQVRAFYVNVLNEEQRKRLCENIAGHLKDAQIFIQKKAVKNFTEVHPDYGSHIQALLDKYNAEKPKNAIHTFVQSGSHLAAREKANL |
| 6419 | sp|Q9Y2G2|CARD8\_HUMAN | MMRQRQSHYCSVLFLSVNYLGGTFPGDICSEENQIVSSYASKVCFEIEEDYKNRQFLGPEGNVDVELIDKSTNRYSVWFPTAGWYLWSATGLGFLVRDEVTVTIAFGSWSQHLALDLQHHEQWLVGGPLFDVTAEPEEAVAEIHLPHFISLQGEVDVSWFLVAHFKNEGMVLEHPARVEPFYAVLESPSFSLMGILLRIASGTRLSIPITSNTLIYYHPHPEDIKFHLYLVPSDALLTKAIDDEEDRFHGVRLQTSPPMEPLNFGSSYIVSNSANLKVMPKELKLSYRSPGEIQHFSKFYAGQMKEPIQLEITEKRHGTLVWDTEVKPVDLQLVAASAPPPFSGAAFVKENHRQLQARMGDLKGVLDDLQDNEVLTENEKELVEQEKTRQSKNEALLSMVEKKGDLALDVLFRSISERDPYLVSYLRQQNL |
| 6420 | sp|P18123|CATA3\_MAIZE | MTMDPTKFRPSSSHDTTVTTTNAGAPVWNDNEALTVGPRGPILLEDYHLIEKVAHFARERIPERVVHARGASAKGFFECTHDVTSLTCADFLRAPGVRTPVIVRFSTVIHERGSPETIRDPRGFAVKFYTREGNWDLLGNNFPVFFIRDGIKFPDVIHAFKPNPRSHVQEYWRVFDFLSHLPESLHTFFFLFDDVGVPSDYRHMEGFGVNTYTFVSAAGKAQYVKFHWKPTCGVRCILTDEEAALVGGRNHSHATQDLYDSIAAGSFPEWTLYVQVMDPDTEEQYDFDPLDDTKTWPEDLLPLRPVGRLVLDRNVDNFFNENEQLAFGPGLVVPGIYYSDDKMLQCRVFAYADTQRYRLGPNYLMLPVNAPRCAHHNNHYDGAMNFMHRDEEVDYYPSRHAPLRQAAPPTPLPPRPVAGRREKATIRKPNDFKQPGERYRSWDADRQDRFVRRFADSLGHPKVSQELRSIWIDLLAKCDASLGMKIATRLNMKANM |
| 6421 | sp|Q63692|CDC37\_RAT | MVDYSVWDHIEVSDDEDETHPNIDTASLFRWRHQARVERMEQFQKEKEELDRGCRECKRKVAECQRKLKELEVAEGGGQVELERLRAEAQQLRKEERSWEQKLEDMRKKEKNMPWNVDTLSKDGFSKSMVNTKPEKAEEDSEEAREQKHKTFVEKYEKQIKHFGMLHRWDDSQKYLSDNVHLVCEETANYLVIWCIDLEVEEKCALMEQVAHQTMVMQFILELAKSLKVDPRACFRQFFTKIKTADQQYMEGFKYELEAFKERVRGRAKLRIEKAMKEYEEEERKKRLGPGGLDPVEVYESLPEELQKCFDVKDVQMLQDAISKMDPTDAKYHMQRCIDSGLWVPNSKSGEAKEGEEAGPGDPLLEAVPKAGNEKDISA |
| 6422 | sp|Q9HF56|CDC42\_ASHGO | MQTLKCVVVGDGAVGKTCLLISYTTNQFPADYVPTVFDNYAVTVMIGDEPYTLGLFDTAGQEDYDRLRPLSYPSTDVFLVCFSVVSPPSFENVKEKWFPEVHHHCPGVPCLIVGTQIDLRENKMVIEKLQRQRLRPITPEQGEKFARELRAVKYVECSALTQRGLKNVFDEAIVAALEPPVIKKSKKCTIL |
| 6423 | sp|Q2QLF9|CFTR\_CALJA | MQRSPLEKASVVSKLFFSWTRPILKKGYRQRLELSDIYQIPSADSADNLSEKLEREWDRELASKKNPKLINALRRCFFWRFTFYGILLYLGEVTKAVQPLLLGRIIASYDPDNKTERSIAIYLGIGLCLLFIVRTLLLHPAIFGLHHIGMQMRIAMFSLIYKKTLKLSSRVLDKISIGQLVSLLSNNLNKFDEGLALAHFVWIAPLQVALLMGLIWELLQASAFCGLGFLIVLALFQAGLGRMMMKYRDQRAGKINERLVITSEMIENIQSVKAYCWEEAMEKMIENLRQTELKLTRKAAYVRYFNSSAFFFSGFFVVFLSVLPYALIKGIILRKIFTTISFCIVLRMAVTRQFPWAVQTWYDSLGAINKIQDFLQKQEYKTLEYNLTTTEVVMENVTAFWEEGFGELFEKAKQNNNNRKTSNDDNNLFFSNFSLLGTPVLKDINFKIERGQLLAVAGSTGAGKTSLLMMIMGELEPSEGKIKHSGRISFCSQFSWIMPGTIKENIIFGVSYDEYRYRSVIKACQLEEDISKFAEKDNIVLGEGGITLSGGQRARISLARAVYKDADLYLLDSPFGYLDVLTEKEIFESCVCKLMANKTRILVTSKMEHLKKADKILILHEGSSYFYGTFSELQNLRPDFSSKLMGYDSFDQFSSERRNSILTETLRRFSLEGDAPVSWTETKKQSFKQTGEFGEKRKNSILNSINSIRKFSIVQKTPLQMNGIEEDSDEPLERRLSLVPDSEQGEAILPRISVINTGPALQVRRRQSVLNMMTHSVNQGQSIHRKTTASTRKVSLAPQANLTELDIYSRRLSQETGLEISEEINEEDLKECFFDDMESIPAVTTWNTYLRYITLHKSLIFVLIWCLVIFLAEVAASLVVLWLLRNTPFQDKGNSTYSRNNSYAVIITNTSSYYVFYIYVGVADTLLALGFFRGLPLVHTLITVSKILHHKMLHSVLQAPMSTLNTLKAGGILNRFSKDIAILDDLLPLTIFDFIQLLLIVIGAIAVVSVLQPYIFLATVPVIAAFVLLRAYFLQTSQQLKQLESAGRSPIFTHLVTSLKGLWTLRAFGRQPYFETLFHKALNLHTANWFLYLSTLRWFQMRIEMIFVIFFIAVTFISILTTGEGEGTVGIILTLAMNIMSTLQWAVNSSIDVDSLMRSVSRVFKFIDMPTEEGKPTKSTKAYKNGQLSKVMIIENSHVKKDDIWPSGGQMTIKDLTAKYIEGGNAILENISFSISPGQRVGLLGRTGSGKSTLLSAFLRLLNTEGEIQIDGVSWDSITLQQWRKAFGVIPQKVFIFTGTFRKNLDPYEQWSDQEIWKVADEVGLRTVIEQFPGKLDFVLVDGGCVLSHGHKQLMCLARSVLSKAKILLLDEPSAHLDPVTYQIIRRALKQAFADCTVILCEHRIEAMLECQQFLVIEENKVRQYDSIQKLLNEKSLFRQAISHSDRVKLFPHRNSSKYKSRPQIASLKEETEEEVQETRL |
| 6424 | sp|Q4AE70|CARM1\_RAT | MAAAAATAVGPGAGSAGVAGPGGAGPCATVSVFPGARLLTIGDANGEIQRHAEQQALRLEVRAGPDAAGIALYSHEDVCVFKCSVSRETECSRVGRQSFIITLGCNSVLIQFATPHDFCSFYNILKTCRGHTLERSVFSERTEESSAVQYFQFYGYLSQQQNMMQDYVRTGTYQRAILQNHTDFKDKIVLDVGCGSGILSFFAAQAGARKIYAVEASTMAQHAEVLVKSNNLTDRIVVIPGKVEEVSLPEQVDIIISEPMGYMLFNERMLESYLHAKKYLKPSGNMFPTIGDVHLAPFTDEQLYMEQFTKANFWYQPSFHGVDLSALRGAAVDEYFRQPVVDTFDIRILMAKSVKYTVNFLEAKEGDLHRIEIPFKFHMLHSGLVHGLAFWFDVAFIGSIMTVWLSTAPTEPLTHWYQVRCLFQSPLFAKAGDTLSGTCLLIANKRQSYDISIVAQVDQTGSKSSNLLDLKNPFFRYTGTTPSPPPGSHYTSPSENMWNTGSTYNLSSGVAVAGMPTAYDLSSVIAGGSSVGHNNLIPLANTGIVNHTHSRMGSIMSTGIVQGNRVAGPWAGDLPPGLRTRSSYQWGPGRLRGHAGSSVPMTCPTGSSGAQGGGGSSSAHYAVNNQFTMGGPAISMASPMSIPTNTMHYGS |
| 6425 | sp|O94986|CE152\_HUMAN | MSLDFGSVALPVQNEDEEYDEEDYEREKELQQLLTDLPHDMLDDDLSSPELQYSDCSEDGTDGQPHHPEQLEMSWNEQMLPKSQSVNGYNEIQSLYAGEKCGNVWEENRSKTEDRHPVYHPEEGGDEGGSGYSPPSKCEQTDLYHLPENFRPYTNGQKQEFNNQATNVIKFSDPQWNHFQGPSCQGLEPYNKVTYKPYQSSAQNNGSPAQEITGSDTFEGLQQQFLGANENSAENMQIIQLQVLNKAKERQLENLIEKLNESERQIRYLNHQLVIIKDEKDGLTLSLRESQKLFQNGKEREIQLEAQIKALETQIQALKVNEEQMIKKSRTTEMALESLKQQLVDLHHSESLQRAREQHESIVMGLTKKYEEQVLSLQKNLDATVTALKEQEDICSRLKDHVKQLERNQEAIKLEKTEIINKLTRSLEESQKQCAHLLQSGSVQEVAQLQFQLQQAQKAHAMSANMNKALQEELTELKDEISLYESAAKLGIHPSDSEGELNIELTESYVDLGIKKVNWKKSKVTSIVQEEDPNEELSKDEFILKLKAEVQRLLGSNSMKRHLVSQLQNDLKDCHKKIEDLHQVKKDEKSIEVETKTDTSEKPKNQLWPESSTSDVVRDDILLLKNEIQVLQQQNQELKETEGKLRNTNQDLCNQMRQMVQDFDHDKQEAVDRCERTYQQHHEAMKTQIRESLLAKHALEKQQLFEAYERTHLQLRSELDKLNKEVTAVQECYLEVCREKDNLELTLRKTTEKEQQTQEKIKEKLIQQLEKEWQSKLDQTIKAMKKKTLDCGSQTDQVTTSDVISKKEMAIMIEEQKCTIQQNLEQEKDIAIKGAMKKLEIELELKHCENITKQVEIAVQNAHQRWLGELPELAEYQALVKAEQKKWEEQHEVSVNKRISFAVSEAKEKWKSELENMRKNILPGKELEEKIHSLQKELELKNEEVPVVIRAELAKARSEWNKEKQEEIHRIQEQNEQDYRQFLDDHRNKINEVLAAAKEDFMKQKTELLLQKETELQTCLDQSRREWTMQEAKRIQLEIYQYEEDILTVLGVLLSDTQKEHISDSEDKQLLEIMSTCSSKWMSVQYFEKLKGCIQKAFQDTLPLLVENADPEWKKRNMAELSKDSASQGTGQGDPGPAAGHHAQPLALQATEAEADKKKVLEIKDLCCGHCFQELEKAKQECQDLKGKLEKCCRHLQHLERKHKAVVEKIGEENNKVVEELIEENNDMKNKLEELQTLCKTPPRSLSAGAIENACLPCSGGALEELRGQYIKAVKKIKCDMLRYIQESKERAAEMVKAEVLRERQETARKMRKYYLICLQQILQDDGKEGAEKKIMNAASKLATMAKLLETPISSKSQSKTTQSALPLTSEMLIAVKKSKRNDVNQKIPCCIESKSNSVNTITRTLCEQAPKRRAACNLQRLLENSEHQSIKHVGSKETHLEFQFGDGSCKHLNSLPRNVSPEFVPCEGEGGFGLHKKKDLLSDNGSESLPHSAAYPFLGTLGNKPSPRCTPGPSESGCMHITFRDSNERLGLKVYKCNPLMESENAASEKSQGLDVQEPPVKDGGDLSDCLGWPSSSATLSFDSREASFVHGRPQGTLEIPSESVKSKQFSPSGYLSDTEESNMICQTMKCQRYQTPYLSEETTYLEPGKISVNCGHPSRHKADRLKSDFKKLSSTLPSSVCQQPSRKLIVPLSSQQDSGFDSPFVNLD |
| 6426 | sp|O14646|CHD1\_HUMAN | MNGHSDEESVRNSSGESSQSDDDSGSASGSGSGSSSGSSSDGSSSQSGSSDSDSGSESGSQSESESDTSRENKVQAKPPKVDGAEFWKSSPSILAVQRSAILKKQQQQQQQQQHQASSNSGSEEDSSSSEDSDDSSSEVKRKKHKDEDWQMSGSGSPSQSGSDSESEEEREKSSCDETESDYEPKNKVKSRKPQNRSKSKNGKKILGQKKRQIDSSEEDDDEEDYDNDKRSSRRQATVNVSYKEDEEMKTDSDDLLEVCGEDVPQPEEEEFETIERFMDCRIGRKGATGATTTIYAVEADGDPNAGFEKNKEPGEIQYLIKWKGWSHIHNTWETEETLKQQNVRGMKKLDNYKKKDQETKRWLKNASPEDVEYYNCQQELTDDLHKQYQIVERIIAHSNQKSAAGYPDYYCKWQGLPYSECSWEDGALISKKFQACIDEYFSRNQSKTTPFKDCKVLKQRPRFVALKKQPSYIGGHEGLELRDYQLNGLNWLAHSWCKGNSCILADEMGLGKTIQTISFLNYLFHEHQLYGPFLLVVPLSTLTSWQREIQTWASQMNAVVYLGDINSRNMIRTHEWTHHQTKRLKFNILLTTYEILLKDKAFLGGLNWAFIGVDEAHRLKNDDSLLYKTLIDFKSNHRLLITGTPLQNSLKELWSLLHFIMPEKFSSWEDFEEEHGKGREYGYASLHKELEPFLLRRVKKDVEKSLPAKVEQILRMEMSALQKQYYKWILTRNYKALSKGSKGSTSGFLNIMMELKKCCNHCYLIKPPDNNEFYNKQEALQHLIRSSGKLILLDKLLIRLRERGNRVLIFSQMVRMLDILAEYLKYRQFPFQRLDGSIKGELRKQALDHFNAEGSEDFCFLLSTRAGGLGINLASADTVVIFDSDWNPQNDLQAQARAHRIGQKKQVNIYRLVTKGSVEEDILERAKKKMVLDHLVIQRMDTTGKTVLHTGSAPSSSTPFNKEELSAILKFGAEELFKEPEGEEQEPQEMDIDEILKRAETHENEPGPLTVGDELLSQFKVANFSNMDEDDIELEPERNSKNWEEIIPEDQRRRLEEEERQKELEEIYMLPRMRNCAKQISFNGSEGRRSRSRRYSGSDSDSISEGKRPKKRGRPRTIPRENIKGFSDAEIRRFIKSYKKFGGPLERLDAIARDAELVDKSETDLRRLGELVHNGCIKALKDSSSGTERTGGRLGKVKGPTFRISGVQVNAKLVISHEEELIPLHKSIPSDPEERKQYTIPCHTKAAHFDIDWGKEDDSNLLIGIYEYGYGSWEMIKMDPDLSLTHKILPDDPDKKPQAKQLQTRADYLIKLLSRDLAKKEALSGAGSSKRRKARAKKNKAMKSIKVKEEIKSDSSPLPSEKSDEDDDKLSESKSDGRERSKKSSVSDAPVHITASGEPVPISEESEELDQKTFSICKERMRPVKAALKQLDRPEKGLSEREQLEHTRQCLIKIGDHITECLKEYTNPEQIKQWRKNLWIFVSKFTEFDARKLHKLYKHAIKKRQESQQNSDQNSNLNPHVIRNPDVERLKENTNHDDSSRDSYSSDRHLTQYHDHHKDRHQGDSYKKSDSRKRPYSSFSNGKDHRDWDHYKQDSRYYSDREKHRKLDDHRSRDHRSNLEGSLKDRSHSDHRSHSDHRLHSDHRSSSEYTHHKSSRDYRYHSDWQMDHRASSSGPRSPLDQRSPYGSRSPFEHSVEHKSTPEHTWSSRKT |
| 6427 | sp|Q8BI06|CEMIP\_MOUSE | MRASGRHDVSLKIVLATGCLLLANFSGASSAVATECPDQSPELQPWSPGHNRDYQVHIGHGRKLLLTSSATVHSITISGGGKLVIKDHHEHIVLRTRYILIDDGGELHAGSALCPFEGNFSIVLYGRADENILPDPYYGLKYIGVDKGGTLELHGQKKLSWTFLNKTLHPGGMQEGGYFFERSWGHRGVIVHVIDAKLGTVVHSDRFDTYRSKKESERLVQYLNAVPDGRILSVAVNDEGSRNLDDTARKAMTKLGSKHFLHLGFRHPWSFITVKGNPSSSVEDHIEYHGHKGSAAARVFKLFQTEHGEHFNVSSSSEWVQDVEWTEWFDHDKVPQSKGGEKISDLRAAYPGKICNRPIDIQATTMDGVALSTEVVYKNGQDYRFACYTRGRACRSYRVRFLCGKPVRPKLTVSIDTNVNSTILSLVDNVRSWRPGDTLVVASTDYSMYQAEEFRVLPCKACTSTQVKVAGKPQYLHIGEEIDGVDMRAEVGLLTRNIVVMGEMEDRCYPYTNHICDFFDFDTFGGHIKFALGFKAAHLEGVELKYMGQQLVGQYPIHFHLAGDLDEQGGYDPPTYIRDLSIHHTFSRCITVHGSNGLLIKDVVGYNSLGHCFFTEDGPEERNTFDHCLGLLVKSGTLLPSDRDSRMCKVITEDSYPGYIPKPRQDCNAVSTFWMANPNNNLINCAAAGSEETGFWFIFHHVPTGPSVGMYSPGYSEHIPLGKFYNNRAHSNYRAGMIIDNGVKTTEASAKDKRPFLSIISARYSPHQDADPLKPREPAIIRHFTAYKNQDHGAWLRGGDVWLDSCRFADNGIGLTLASGGTFPYDDGSKQEIKNSLFVGESGNVGTEMMDNRIWGPGGLDHSGRTLPIGQNFPIRGIQFYDGPINIQNCTFRKFAALEGRHTSALAFRLNNAWQSCPHNNVTNIAFEDVPITSRVFFGEPGPWFNQLDMDGDKTSVFHDLDGSVSEYPGSYLTKDDNWLVRHPDCINVPDWRGAICSGRYAQMYIQAYKSSNLRMKIIKNDFPSHPLYLEGALTRSTHYQQYQPVITLQKGYTIHWDQTAPAELAIWLINFNKGDWIRVGLCYPRGTTFSILSDVHNRLLKQTSKTGTFVRTLQMDKVEQSYPGRSHYYWDEDSGLLFLKLKAQNEREKFAFCSMKGCERIKIKALLPRNAGISDCTATAYPRFTERAIVDVPMPRKLFGAQLKTKDHFLEVKMESSRQHFFHLRNDFAYIEVDGRRYPCSEDGIQIVVIDGSRGHVVSHGSFRNAILQGIPWQLFNYVAAIPDNSIVLMASKGRYITRGPWTRVLEKLGADKGLKLKEKMAFVGFKGSFRPIWVTLETEDHKAKIFQVVPIPVVRKKKL |
| 6428 | sp|Q01134|CHKA\_RAT | MKTKFCTGGEAEPSPLGLLLSCGGSAAPTPGVGQQRDAAGELESKQLGGRSQPLALPPPPPPPLPLPPPPSPPLADEQPEPRTRRRAYLWCKEFLPGAWRGLREDQFHISVIRGGLSNMLFQCSLPDSIASVGDEPRKVLLRLYGAILKMRSCNKEGSEQAQNENEFQGAEAMVLESVMFAILAERSLGPKLYGIFPQGRLEQFIPSRRLDTEELCLPDISAEIAEKMATFHGMKMPFNKEPKWLFGTMEKYLNQVLRLKFSREARVQQLHKFLSYNLPLELENLRSLLQYTRSPVVFCHNDCQEGNILLLEGQENSEKQKLMLIDFEYSSYNYRGFDIGNHFCEWMYDYTYEKYPFFRANIQKYPTRKQQLHFISSYLTTFQNDFESLSSEEQSATKEDMLLEVNRFALASHFLWGLWSIVQAKISSIEFGYMEYAQARFDAYFDQKRKLGV |
| 6429 | sp|P09798|CDC16\_YEAST | MKFCLYCCHCYIVICGKATHYYKSSKATSNLKSSNRVLMRNPMSPSEQHSQHNSTLAASPFVSNVSAARTQQSLPTDAQNDRLQQPWNRTNTATSPYQSLANSPLIQKLQANIMTPHQPSANSNSNSNSITGNVVNDNNLLASMSKNSMFGSTIPSTLRKVSLQREYKDSVDGVVRDEDNDEDVHNNGDAAANANNDRESKLGHNGPLTTTTLTTTTTATQLDVSELSAIERLRLWRFDALMQHMYRTAEYIADKVYNISNDPDDAFWLGQVYYNNNQYVRAVELITRNNLDGVNILCRYLLGLSFVKLQRFDDALDVIGEYNPFSEDPSTTAANTMSNNGNNSNTSQPVTDGGIKMESSLCFLRGKIYFAQNNFNKARDAFREAILVDIKNFEAFEMLLSKNLLTPQEEWDLFDSLDFKEFGEDKEIMKNLYKINLSKYINTEDITKSNEILAKDYKLADNVDVVRSKVDICYTQCKFNECLELCETVLENDEFNTNILPAYIGCLYELSNKNKLFLLSHRLAETFPKSAITWFSVATYYMSLDRISEAQKYYSKSSILDPSFAAAWLGFAHTYALEGEQDQALTAYSTASRFFPGMHLPKLFLGMQFMAMNSLNLAESYFVLAYDICPNDPLVLNEMGVMYFKKNEFVKAKKYLKKALEVVKDLDPSSRTTISIQLNLGHTYRKLNENEIAIKCFRCVLEKNDKNSEIHCSLGYLYLKTKKLQKAIDHLHKSLYLKPNNSSATALLKNALELNVTLSLDASHPLIDKSNLMSQASKDKASLNKKRSSLTYDPVNMAKRLRTQKEIFDQNNKALRKGGHDSKTGSNNADDDFDADMELE |
| 6430 | sp|P49715|CEBPA\_HUMAN | MESADFYEAEPRPPMSSHLQSPPHAPSSAAFGFPRGAGPAQPPAPPAAPEPLGGICEHETSIDISAYIDPAAFNDEFLADLFQHSRQQEKAKAAVGPTGGGGGGDFDYPGAPAGPGGAVMPGGAHGPPPGYGCAAAGYLDGRLEPLYERVGAPALRPLVIKQEPREEDEAKQLALAGLFPYQPPPPPPPSHPHPHPPPAHLAAPHLQFQIAHCGQTTMHLQPGHPTPPPTPVPSPHPAPALGAAGLPGPGSALKGLGAAHPDLRASGGSGAGKAKKSVDKNSNEYRVRRERNNIAVRKSRDKAKQRNVETQQKVLELTSDNDRLRKRVEQLSRELDTLRGIFRQLPESSLVKAMGNCA |
| 6431 | sp|P49716|CEBPD\_HUMAN | MSAALFSLDGPARGAPWPAEPAPFYEPGRAGKPGRGAEPGALGEPGAAAPAMYDDESAIDFSAYIDSMAAVPTLELCHDELFADLFNSNHKAGGAGPLELLPGGPARPLGPGPAAPRLLKREPDWGDGDAPGSLLPAQVAACAQTVVSLAAAGQPTPPTSPEPPRSSPRQTPAPGPAREKSAGKRGPDRGSPEYRQRRERNNIAVRKSRDKAKRRNQEMQQKLVELSAENEKLHQRVEQLTRDLAGLRQFFKQLPSPPFLPAAGTADCR |
| 6432 | sp|P15530|CD79B\_MOUSE | MATLVLSSMPCHWLLFLLLLFSGEPVPAMTSSDLPLNFQGSPCSQIWQHPRFAAKKRSSMVKFHCYTNHSGALTWFRKRGSQQPQELVSEEGRIVQTQNGSVYTLTIQNIQYEDNGIYFCKQKCDSANHNVTDSCGTELLVLGFSTLDQLKRRNTLKDGIILIQTLLIILFIIVPIFLLLDKDDGKAGMEEDHTYEGLNIDQTATYEDIVTLRTGEVKWSVGEHPGQE |
| 6433 | sp|Q86X02|CDR2L\_HUMAN | MRRAAGMEDFSAEEEESWYDQQDLEQDLHLAAELGKTLLERNKELEGSLQQMYSTNEEQVQEIEYLTKQLDTLRHVNEQHAKVYEQLDLTARDLELTNHRLVLESKAAQQKIHGLTETIERLQAQVEELQAQVEQLRGLEQLRVLREKRERRRTIHTFPCLKELCTSPRCKDAFRLHSSSLELGPRPLEQENERLQTLVGALRSQVSQERQRKERAEREYTAVLQEYSELERQLCEMEACRLRVQELEAELLELQQMKQAKTYLLGPDDHLAEALLAPLTQAPEADDPQPGRGDDLGAQDGVSSPAASPGHVVRKSCSDTALNAIVAKDPASRHAGNLTLHANSVRKRGMSILREVDEQYHALLEKYEELLSKCRQHGAGVRHAGVQTSRPISRDSSWRDLRGGEEGQGEVKAGEKSLSQHVEAVDKRLEQSQPEYKALFKEIFSRIQKTKADINATKVKTHSSK |
| 6434 | sp|Q7Z1Z1|CHSSA\_CAEEL | MRVFQRSTCRMPVSRATVTILLGILFGFSITYYLTALKSLTNPIICGPEQQIGGFDYLDVISQRADADVFTRSQSLPGHRRGLILVAIMTAAKYVDTRAYNVWKTWAQHIPGRVLIFVAEGTESVHEDMPLIRLKGVDDTYPPQKKSFAMVKWLAENMADEYDWFLRADDDLYIRGEELALFLRSVDSSKAHIIGQAGLGNSAEYGLLALGSTDNYCMGGPGIVMSRDTLLKVSPHLESCLQHMLTSHEDVELGRCIRKHVGVACTWNYEMQKLFHNNQSAIKESYAKNMKELKDAITLHPIKDPAVMRKVHLRNREIKLREARAKRSLLSSELSTAKAQTLVRMTPNRTNDLTPWEYINNNKILFCADRVNCPRHTVDLSIRTEMADTITQLFDEFNTNARQRGRVLQFQSLQYGYMRVEPTKGVDYVLDMLLWFKKFRPPNRTTISVRRHAYVQQTFGKLRSLSEGVFRSNMRANSTLIEDPTLHMIMPLRGRAAIFARFAQHLKSICARGGDDLAVSLTIVLYSSEDEMENRETIEMLRASFIPVTVIEMGDVSFSRGVALMRGAETLPANALLFFTDVDMLFTCDALKRIKSNTILNAQIYFPIVFSEFSHESWSENDKLLADAFHYGRGRGYFRHFGYGLAAMYKADLMDVGGFDTKIEGWGKEDVDLFEKAIKNGRLRVIRVPEPGLVHIYHPIHCDENMPTAQKDMCHGSKAASLASIDTLVEQIAQYT |
| 6435 | sp|P0A9H9|CHEZ\_ECOLI | MMQPSIKPADEHSAGDIIARIGSLTRMLRDSLRELGLDQAIAEAAEAIPDARDRLYYVVQMTAQAAERALNSVEASQPHQDQMEKSAKALTQRWDDWFADPIDLADARELVTDTRQFLADVPAHTSFTNAQLLEIMMAQDFQDLTGQVIKRMMDVIQEIERQLLMVLLENIPEQESRPKRENQSLLNGPQVDTSKAGVVASQDQVDDLLDSLGF |
| 6436 | sp|Q96NB1|CEP20\_HUMAN | MATVAELKAVLKDTLEKKGVLGHLKARIRAEVFNALDDDREPRPSLSHENLLINELIREYLEFNKYKYTASVLIAESGQPVVPLDRQFLIHELNAFEESKDNTIPLLYGILAHFLRGTKDGIQNAFLKGPSLQPSDPSLGRQPSRRKPMDDHLRKEEQKSTNIEDLHVSQAVNR |
| 6437 | sp|P46527|CDN1B\_HUMAN | MSNVRVSNGSPSLERMDARQAEHPKPSACRNLFGPVDHEELTRDLEKHCRDMEEASQRKWNFDFQNHKPLEGKYEWQEVEKGSLPEFYYRPPRPPKGACKVPAQESQDVSGSRPAAPLIGAPANSEDTHLVDPKTDPSDSQTGLAEQCAGIRKRPATDDSSTQNKRANRTEENVSDGSPNAGSVEQTPKKPGLRRRQT |
| 6438 | sp|P78357|CNTP1\_HUMAN | MMHLRLFCILLAAVSGAEGWGYYGCDEELVGPLYARSLGASSYYSLLTAPRFARLHGISGWSPRIGDPNPWLQIDLMKKHRIRAVATQGSFNSWDWVTRYMLLYGDRVDSWTPFYQRGHNSTFFGNVNESAVVRHDLHFHFTARYIRIVPLAWNPRGKIGLRLGLYGCPYKADILYFDGDDAISYRFPRGVSRSLWDVFAFSFKTEEKDGLLLHAEGAQGDYVTLELEGAHLLLHMSLGSSPIQPRPGHTTVSAGGVLNDQHWHYVRVDRFGRDVNFTLDGYVQRFILNGDFERLNLDTEMFIGGLVGAARKNLAYRHNFRGCIENVIFNRVNIADLAVRRHSRITFEGKVAFRCLDPVPHPINFGGPHNFVQVPGFPRRGRLAVSFRFRTWDLTGLLLFSRLGDGLGHVELTLSEGQVNVSIAQSGRKKLQFAAGYRLNDGFWHEVNFVAQENHAVISIDDVEGAEVRVSYPLLIRTGTSYFFGGCPKPASRWDCHSNQTAFHGCMELLKVDGQLVNLTLVEGRRLGFYAEVLFDTCGITDRCSPNMCEHDGRCYQSWDDFICYCELTGYKGETCHTPLYKESCEAYRLSGKTSGNFTIDPDGSGPLKPFVVYCDIRENRAWTVVRHDRLWTTRVTGSSMERPFLGAIQYWNASWEEVSALANASQHCEQWIEFSCYNSRLLNTAGGYPYSFWIGRNEEQHFYWGGSQPGIQRCACGLDRSCVDPALYCNCDADQPQWRTDKGLLTFVDHLPVTQVVIGDTNRSTSEAQFFLRPLRCYGDRNSWNTISFHTGAALRFPPIRANHSLDVSFYFRTSAPSGVFLENMGGPYCQWRRPYVRVELNTSRDVVFAFDVGNGDENLTVHSDDFEFNDDEWHLVRAEINVKQARLRVDHRPWVLRPMPLQTYIWMEYDQPLYVGSAELKRRPFVGCLRAMRLNGVTLNLEGRANASEGTSPNCTGHCAHPRLPCFHGGRCVERYSYYTCDCDLTAFDGPYCNHDIGGFFEPGTWMRYNLQSALRSAAREFSHMLSRPVPGYEPGYIPGYDTPGYVPGYHGPGYRLPDYPRPGRPVPGYRGPVYNVTGEEVSFSFSTSSAPAVLLYVSSFVRDYMAVLIKDDGTLQLRYQLGTSPYVYQLTTRPVTDGQPHSINITRVYRNLFIQVDYFPLTEQKFSLLVDSQLDSPKALYLGRVMETGVIDPEIQRYNTPGFSGCLSGVRFNNVAPLKTHFRTPRPMTAELAEALRVQGELSESNCGAMPRLVSEVPPELDPWYLPPDFPYYHDEGWVAILLGFLVAFLLLGLVGMLVLFYLQNHRYKGSYHTNEPKAAHEYHPGSKPPLPTSGPAQVPTPTAAPNQAPASAPAPAPTPAPAPGPRDQNLPQILEESRSE |
| 6439 | sp|P20138|CD33\_HUMAN | MPLLLLLPLLWAGALAMDPNFWLQVQESVTVQEGLCVLVPCTFFHPIPYYDKNSPVHGYWFREGAIISRDSPVATNKLDQEVQEETQGRFRLLGDPSRNNCSLSIVDARRRDNGSYFFRMERGSTKYSYKSPQLSVHVTDLTHRPKILIPGTLEPGHSKNLTCSVSWACEQGTPPIFSWLSAAPTSLGPRTTHSSVLIITPRPQDHGTNLTCQVKFAGAGVTTERTIQLNVTYVPQNPTTGIFPGDGSGKQETRAGVVHGAIGGAGVTALLALCLCLIFFIVKTHRRKAARTAVGRNDTHPTTGSASPKHQKKSKLHGPTETSSCSGAAPTVEMDEELHYASLNFHGMNPSKDTSTEYSEVRTQ |
| 6440 | sp|O95067|CCNB2\_HUMAN | MALLRRPTVSSDLENIDTGVNSKVKSHVTIRRTVLEEIGNRVTTRAAQVAKKAQNTKVPVQPTKTTNVNKQLKPTASVKPVQMEKLAPKGPSPTPEDVSMKEENLCQAFSDALLCKIEDIDNEDWENPQLCSDYVKDIYQYLRQLEVLQSINPHFLDGRDINGRMRAILVDWLVQVHSKFRLLQETLYMCVGIMDRFLQVQPVSRKKLQLVGITALLLASKYEEMFSPNIEDFVYITDNAYTSSQIREMETLILKELKFELGRPLPLHFLRRASKAGEVDVEQHTLAKYLMELTLIDYDMVHYHPSKVAAAASCLSQKVLGQGKWNLKQQYYTGYTENEVLEVMQHMAKNVVKVNENLTKFIAIKNKYASSKLLKISMIPQLNSKAVKDLASPLIGRS |
| 6441 | sp|Q9H2X3|CLC4M\_HUMAN | MSDSKEPRVQQLGLLEEDPTTSGIRLFPRDFQFQQIHGHKSSTGCLGHGALVLQLLSFMLLAGVLVAILVQVSKVPSSLSQEQSEQDAIYQNLTQLKAAVGELSEKSKLQEIYQELTQLKAAVGELPEKSKLQEIYQELTRLKAAVGELPEKSKLQEIYQELTRLKAAVGELPEKSKLQEIYQELTRLKAAVGELPEKSKLQEIYQELTELKAAVGELPEKSKLQEIYQELTQLKAAVGELPDQSKQQQIYQELTDLKTAFERLCRHCPKDWTFFQGNCYFMSNSQRNWHDSVTACQEVRAQLVVIKTAEEQNFLQLQTSRSNRFSWMGLSDLNQEGTWQWVDGSPLSPSFQRYWNSGEPNNSGNEDCAEFSGSGWNDNRCDVDNYWICKKPAACFRDE |
| 6442 | sp|Q9NQW8|CNGB3\_HUMAN | MFKSLTKVNKVKPIGENNENEQSSRRNEEGSHPSNQSQQTTAQEENKGEEKSLKTKSTPVTSEEPHTNIQDKLSKKNSSGDLTTNPDPQNAAEPTGTVPEQKEMDPGKEGPNSPQNKPPAAPVINEYADAQLHNLVKRMRQRTALYKKKLVEGDLSSPEASPQTAKPTAVPPVKESDDKPTEHYYRLLWFKVKKMPLTEYLKRIKLPNSIDSYTDRLYLLWLLLVTLAYNWNCCFIPLRLVFPYQTADNIHYWLIADIICDIIYLYDMLFIQPRLQFVRGGDIIVDSNELRKHYRTSTKFQLDVASIIPFDICYLFFGFNPMFRANRMLKYTSFFEFNHHLESIMDKAYIYRVIRTTGYLLFILHINACVYYWASNYEGIGTTRWVYDGEGNEYLRCYYWAVRTLITIGGLPEPQTLFEIVFQLLNFFSGVFVFSSLIGQMRDVIGAATANQNYFRACMDDTIAYMNNYSIPKLVQKRVRTWYEYTWDSQRMLDESDLLKTLPTTVQLALAIDVNFSIISKVDLFKGCDTQMIYDMLLRLKSVLYLPGDFVCKKGEIGKEMYIIKHGEVQVLGGPDGTKVLVTLKAGSVFGEISLLAAGGGNRRTANVVAHGFANLLTLDKKTLQEILVHYPDSERILMKKARVLLKQKAKTAEATPPRKDLALLFPPKEETPKLFKTLLGGTGKASLARLLKLKREQAAQKKENSEGGEEEGKENEDKQKENEDKQKENEDKGKENEDKDKGREPEEKPLDRPECTASPIAVEEEPHSVRRTVLPRGTSRQSLIISMAPSAEGGEEVLTIEVKEKAKQ |
| 6443 | sp|Q9S744|CML9\_ARATH | MADAFTDEQIQEFYEAFCLIDKDSDGFITKEKLTKVMKSMGKNPKAEQLQQMMSDVDIFGNGGITFDDFLYIMAQNTSQESASDELIEVFRVFDRDGDGLISQLELGEGMKDMGMKITAEEAEHMVREADLDGDGFLSFHEFSKMMIAASY |
| 6444 | sp|Q6YHK3|CD109\_HUMAN | MQGPPLLTAAHLLCVCTAALAVAPGPRFLVTAPGIIRPGGNVTIGVELLEHCPSQVTVKAELLKTASNLTVSVLEAEGVFEKGSFKTLTLPSLPLNSADEIYELRVTGRTQDEILFSNSTRLSFETKRISVFIQTDKALYKPKQEVKFRIVTLFSDFKPYKTSLNILIKDPKSNLIQQWLSQQSDLGVISKTFQLSSHPILGDWSIQVQVNDQTYYQSFQVSEYVLPKFEVTLQTPLYCSMNSKHLNGTITAKYTYGKPVKGDVTLTFLPLSFWGKKKNITKTFKINGSANFSFNDEEMKNVMDSSNGLSEYLDLSSPGPVEILTTVTESVTGISRNVSTNVFFKQHDYIIEFFDYTTVLKPSLNFTATVKVTRADGNQLTLEERRNNVVITVTQRNYTEYWSGSNSGNQKMEAVQKINYTVPQSGTFKIEFPILEDSSELQLKAYFLGSKSSMAVHSLFKSPSKTYIQLKTRDENIKVGSPFELVVSGNKRLKELSYMVVSRGQLVAVGKQNSTMFSLTPENSWTPKACVIVYYIEDDGEIISDVLKIPVQLVFKNKIKLYWSKVKAEPSEKVSLRISVTQPDSIVGIVAVDKSVNLMNASNDITMENVVHELELYNTGYYLGMFMNSFAVFQECGLWVLTDANLTKDYIDGVYDNAEYAERFMEENEGHIVDIHDFSLGSSPHVRKHFPETWIWLDTNMGYRIYQEFEVTVPDSITSWVATGFVISEDLGLGLTTTPVELQAFQPFFIFLNLPYSVIRGEEFALEITIFNYLKDATEVKVIIEKSDKFDILMTSNEINATGHQQTLLVPSEDGATVLFPIRPTHLGEIPITVTALSPTASDAVTQMILVKAEGIEKSYSQSILLDLTDNRLQSTLKTLSFSFPPNTVTGSERVQITAIGDVLGPSINGLASLIRMPYGCGEQNMINFAPNIYILDYLTKKKQLTDNLKEKALSFMRQGYQRELLYQREDGSFSAFGNYDPSGSTWLSAFVLRCFLEADPYIDIDQNVLHRTYTWLKGHQKSNGEFWDPGRVIHSELQGGNKSPVTLTAYIVTSLLGYRKYQPNIDVQESIHFLESEFSRGISDNYTLALITYALSSVGSPKAKEALNMLTWRAEQEGGMQFWVSSESKLSDSWQPRSLDIEVAAYALLSHFLQFQTSEGIPIMRWLSRQRNSLGGFASTQDTTVALKALSEFAALMNTERTNIQVTVTGPSSPSPVKFLIDTHNRLLLQTAELAVVQPTAVNISANGFGFAICQLNVVYNVKASGSSRRRRSIQNQEAFDLDVAVKENKDDLNHVDLNVCTSFSGPGRSGMALMEVNLLSGFMVPSEAISLSETVKKVEYDHGKLNLYLDSVNETQFCVNIPAVRNFKVSNTQDASVSIVDYYEPRRQAVRSYNSEVKLSSCDLCSDVQGCRPCEDGASGSHHHSSVIFIFCFKLLYFMELWL |
| 6445 | sp|Q6IRU5|CLCB\_MOUSE | MAEDFGFFSSSESGAPEAAEEDPAAAFLAQQESEIAGIENDPGFGAPAASQVASAQPGLASGAGSEDMSTTVNGDVFQEANGPADGYAAIAQADRLTQEPESIRKWREEQKKRLQELDAASKVTEQEWREKAKKDLEEWNQRQSEQVEKNKINNRIADKAFYQQPDADTIGYVASEEAFVKESKEETPGTEWEKVAQLCDFNPKSSKQCKDVSRLRSVLMSLKQTPLSR |
| 6446 | sp|O65718|CNGC2\_ARATH | MPSHPNFIFRWIGLFSDKFRRQTTGIDENSNLQINGGDSSSSGSDETPVLSSVECYACTQVGVPAFHSTSCDQAHAPEWRASAGSSLVPIQEGSVPNPARTRFRRLKGPFGEVLDPRSKRVQRWNRALLLARGMALAVDPLFFYALSIGRTTGPACLYMDGAFAAVVTVLRTCLDAVHLWHVWLQFRLAYVSRESLVVGCGKLVWDPRAIASHYARSLTGFWFDVIVILPVPQAVFWLVVPKLIREEKVKLIMTILLLIFLFQFLPKIYHCICLMRRMQKVTGYIFGTIWWGFALNLIAYFIASHVAGGCWYVLAIQRVASCIRQQCMRTGNCNLSLACKEEVCYQFVSPTSTVGYPCLSGNLTSVVNKPMCLDSNGPFRYGIYRWALPVISSNSLAVKILYPIFWGLMTLSTFANDLEPTSNWLEVIFSIVMVLSGLLLFTLLIGNIQVFLHAVMAKKRKMQIRCRDMEWWMKRRQLPSRLRQRVRRFERQRWNALGGEDELELIHDLPPGLRRDIKRYLCFDLINKVPLFRGMDDLILDNICDRAKPRVFSKDEKIIREGDPVQRMIFIMRGRVKRIQSLSKGVLATSTLEPGGYLGDELLSWCLRRPFLDRLPPSSATFVCLENIEAFSLGSEDLRYITDHFRYKFANERLKRTARYYSSNWRTWAAVNIQMAWRRRRKRTRGENIGGSMSPVSENSIEGNSERRLLQYAAMFMSIRPHDHLE |
| 6447 | sp|Q03611|CNG\_CAEEL | MSTAEPAPDPTNPSTSGLAPTTNGIGSPPPTASAATKFSILTKFLRRKNQVHTTTAQQNEFMQKYMPNGNSNAVQPAATGGQPASSDGGSAIEVPPPKESYAVRIRKYLANYTQDPSTDNFYYWTCVVTVAYIYNLLFVIARQVFNDLIGPSSQSLCRFYNGTLNSTTQVECTYNMLTNMKEMPTYSQYPDLGWSKYWHFRMLWVFFDLLMDCVYLIDTFLNYRMGYMDQGLVVREAEKVTKAYWQSKQYRIDGISLIPLDYILGWPIPYINWRGLPILRLNRLIRYKRVRNCLERTETRSSMPNAFRVVVVVWYIVIIIHWNACLYFWISEWIGLGTDAWVYGHLNKQSLPDDITDTLLRRYVYSFYWSTLILTTIGEVPSPVRNIEYAFVTLDLMCGVLIFATIVGNVGSMISNMSAARTEFQNKMDGIKQYMELRKVSKQLEIRVIKWFDYLWTNKQSLSDQQVLKVLPDKLQAEIAMQVHFETLRKVRIFQDCEAGLLAELVLKLQLQVFSPGDFICKKGDIGREMYIVKRGRLQVVDDDGKKVFVTLQEGSVFGELSILNIAGSKNGNRRTANVRSVGYTDLFVLSKTDLWNALREYPDARKLLLAKGREILKKDNLLDENAPEEQKTVEEIAEHLNNAVKVLQTRMARLIVEHSSTEGKLMKRIEMLEKHLSRYKALARRQKTMHGVSIDGGDISTDGVDERVRPPRLRQTKTIDLPTGTESESLLK |
| 6448 | sp|O95476|CNEP1\_HUMAN | MMRTQCLLGLRTFVAFAAKLWSFFIYLLRRQIRTVIQYQTVRYDILPLSPVSRNRLAQVKRKILVLDLDETLIHSHHDGVLRPTVRPGTPPDFILKVVIDKHPVRFFVHKRPHVDFFLEVVSQWYELVVFTASMEIYGSAVADKLDNSRSILKRRYYRQHCTLELGSYIKDLSVVHSDLSSIVILDNSPGAYRSHPDNAIPIKSWFSDPSDTALLNLLPMLDALRFTADVRSVLSRNLHQHRLW |
| 6449 | sp|P12107|COBA1\_HUMAN | MEPWSSRWKTKRWLWDFTVTTLALTFLFQAREVRGAAPVDVLKALDFHNSPEGISKTTGFCTNRKNSKGSDTAYRVSKQAQLSAPTKQLFPGGTFPEDFSILFTVKPKKGIQSFLLSIYNEHGIQQIGVEVGRSPVFLFEDHTGKPAPEDYPLFRTVNIADGKWHRVAISVEKKTVTMIVDCKKKTTKPLDRSERAIVDTNGITVFGTRILDEEVFEGDIQQFLITGDPKAAYDYCEHYSPDCDSSAPKAAQAQEPQIDEYAPEDIIEYDYEYGEAEYKEAESVTEGPTVTEETIAQTEANIVDDFQEYNYGTMESYQTEAPRHVSGTNEPNPVEEIFTEEYLTGEDYDSQRKNSEDTLYENKEIDGRDSDLLVDGDLGEYDFYEYKEYEDKPTSPPNEEFGPGVPAETDITETSINGHGAYGEKGQKGEPAVVEPGMLVEGPPGPAGPAGIMGPPGLQGPTGPPGDPGDRGPPGRPGLPGADGLPGPPGTMLMLPFRYGGDGSKGPTISAQEAQAQAILQQARIALRGPPGPMGLTGRPGPVGGPGSSGAKGESGDPGPQGPRGVQGPPGPTGKPGKRGRPGADGGRGMPGEPGAKGDRGFDGLPGLPGDKGHRGERGPQGPPGPPGDDGMRGEDGEIGPRGLPGEAGPRGLLGPRGTPGAPGQPGMAGVDGPPGPKGNMGPQGEPGPPGQQGNPGPQGLPGPQGPIGPPGEKGPQGKPGLAGLPGADGPPGHPGKEGQSGEKGALGPPGPQGPIGYPGPRGVKGADGVRGLKGSKGEKGEDGFPGFKGDMGLKGDRGEVGQIGPRGEDGPEGPKGRAGPTGDPGPSGQAGEKGKLGVPGLPGYPGRQGPKGSTGFPGFPGANGEKGARGVAGKPGPRGQRGPTGPRGSRGARGPTGKPGPKGTSGGDGPPGPPGERGPQGPQGPVGFPGPKGPPGPPGKDGLPGHPGQRGETGFQGKTGPPGPGGVVGPQGPTGETGPIGERGHPGPPGPPGEQGLPGAAGKEGAKGDPGPQGISGKDGPAGLRGFPGERGLPGAQGAPGLKGGEGPQGPPGPVGSPGERGSAGTAGPIGLPGRPGPQGPPGPAGEKGAPGEKGPQGPAGRDGVQGPVGLPGPAGPAGSPGEDGDKGEIGEPGQKGSKGDKGENGPPGPPGLQGPVGAPGIAGGDGEPGPRGQQGMFGQKGDEGARGFPGPPGPIGLQGLPGPPGEKGENGDVGPMGPPGPPGPRGPQGPNGADGPQGPPGSVGSVGGVGEKGEPGEAGNPGPPGEAGVGGPKGERGEKGEAGPPGAAGPPGAKGPPGDDGPKGNPGPVGFPGDPGPPGEPGPAGQDGVGGDKGEDGDPGQPGPPGPSGEAGPPGPPGKRGPPGAAGAEGRQGEKGAKGEAGAEGPPGKTGPVGPQGPAGKPGPEGLRGIPGPVGEQGLPGAAGQDGPPGPMGPPGLPGLKGDPGSKGEKGHPGLIGLIGPPGEQGEKGDRGLPGTQGSPGAKGDGGIPGPAGPLGPPGPPGLPGPQGPKGNKGSTGPAGQKGDSGLPGPPGSPGPPGEVIQPLPILSSKKTRRHTEGMQADADDNILDYSDGMEEIFGSLNSLKQDIEHMKFPMGTQTNPARTCKDLQLSHPDFPDGEYWIDPNQGCSGDSFKVYCNFTSGGETCIYPDKKSEGVRISSWPKEKPGSWFSEFKRGKLLSYLDVEGNSINMVQMTFLKLLTASARQNFTYHCHQSAAWYDVSSGSYDKALRFLGSNDEEMSYDNNPFIKTLYDGCASRKGYEKTVIEINTPKIDQVPIVDVMINDFGDQNQKFGFEVGPVCFLG |
| 6450 | sp|Q9XX14|CNT2\_CAEEL | MPLIRNYDYYDLLNVAPSTSAHRPTVMVTSSRSYMEPQKSRIYYGKNEWRGGNTTIHDPTEFEETTMDKNANEIAGDDKRKKKRWRDLLFPNSRHSSRKDKENSNVSVATRSLSSVSFRSEKPSRRRESGSLSRHRYIPPPPLPMPPRRIMTSTSMGYSDDAMTSSSSHTTTDYDDIVPVPTPSYVIYPAASIAQASRRQQQGSAKNRIFRSPTYHHDAFVNSHEWTLSRSISEMKLGIVGTSQSGKTALVHRYLTGTYTPDESPEGGRFKKEVVIEGQSHLLLIRDEGQQHLDVQFCQWVDAVVFVFNVCSIQSYDSIQALAHEMSKYRNISDLPLILVGTKDHISEKRARVITEDEGRQLAAQMKRCSYFETSSTYGTNVERVFKEACCKIIQLRVRSQVGAAAAASSQARTPTPTHSESGGRKDYQDPSRYISSNSFVMPSNMRPSFPSNSTRRNTVHHRGEHPQQQQYQQQPPSSSRTASERSMSAMLGTPYGNRMPAGVSPSASQKSVHSIANGCYSRSSAALLDSDTPAVNSYLIDSMSSAGFPLSQSGANQVSASTSHLPTPSSTPNTQRKNRRISNIFRQKDHQEEKSKMIESLNLGIGRAIPIKQGNLYKKSSKSALNREWKKKYVCLYSDGRLTYHTNLKEYMDKTAHGKEMDLKLATIRITGRLHPLHSHRVASSVDPMNGGGGGGTPTLKSYEPRRSDVGANSGDGTSGGGSDDAIKENQRQHFSPPAMPQTVAGKKKRESRKIGTNSKHNDEEDECFEVINNCLMRWEFCAGSLEERDEWIQAIGGEIEKSLGKEVANAKTNNRAVANRPDIAALRSIPGNGRCADCGNPSSEWASINLGIIICIECSGIHRNLGSHISKVRGLELDQWPVEHLAVMQAIGNDKANEMWEFGLLNGERKPTPESSREEKERFIDRKYVQKAFLKPIASGEPVTSQLISAVLARDVMSLNVLLANGMSVEEINTTTKDGRTVLHLAASIGSVELAQLLIWHNADAQILDNNGRSCLFYARSNGFREVFDMLVTAGLSPDYGLPQEINDFSQMPEFFAMGSTSNRDYSTSGDEMYGSRRISMGPPPQVPARRYLPQQPELDETSVI |
| 6451 | sp|Q0WNJ6|CLAH1\_ARATH | MAAANAPIIMKEVLTLPSVGIGQQFITFTNVTMESDKYICVRETAPQNSVVIIDMNMPMQPLRRPITADSALMNPNSRILALKAQVPGTTQDHLQIFNIEAKAKLKSHQMPEQVAFWKWITPKMLGLVTQTSVYHWSIEGDSEPVKMFDRTANLANNQIINYKCSPNEKWLVLIGIAPGSPERPQLVKGNMQLFSVDQQRSQALEAHAASFAQFKVPGNENPSILISFASKSFNAGQITSKLHVIELGAQPGKPSFTKKQADLFFPPDFADDFPVAMQVSHKFNLIYVITKLGLLFVYDLETASAIYRNRISPDPIFLTSEASSVGGFYAINRRGQVLLATVNEATIIPFISGQLNNLELAVNLAKRGNLPGAENLVVQRFQELFAQTKYKEAAELAAESPQGILRTPDTVAKFQSVPVQAGQTPPLLQYFGTLLTRGKLNSYESLELSRLVVNQNKKNLLENWLAEDKLECSEELGDLVKTVDNDLALKIYIKARATPKVVAAFAERREFDKILIYSKQVGYTPDYMFLLQTILRTDPQGAVNFALMMSQMEGGCPVDYNTITDLFLQRNLIREATAFLLDVLKPNLPEHAFLQTKVLEINLVTFPNVADAILANGMFSHYDRPRVAQLCEKAGLYIQSLKHYSELPDIKRVIVNTHAIEPQALVEFFGTLSSEWAMECMKDLLLVNLRGNLQIIVQACKEYCEQLGVDACIKLFEQFKSYEGLYFFLGSYLSMSEDPEIHFKYIEAAAKTGQIKEVERVTRESNFYDAEKTKNFLMEAKLPDARPLINVCDRFGFVPDLTHYLYTNNMLRYIEGYVQKVNPGNAPLVVGQLLDDECPEDFIKGLILSVRSLLPVEPLVAECEKRNRLRLLTQFLEHLVSEGSQDVHVHNALGKIIIDSNNNPEHFLTTNPYYDSKVVGKYCEKRDPTLAVVAYRRGQCDEELINVTNKNSLFKLQARYVVERMDGDLWEKVLTEENEYRRQLIDQVVSTALPESKSPEQVSAAVKAFMTADLPHELIELLEKIVLQNSAFSGNFNLQNLLILTAIKADPSRVMDYINRLDNFDGPAVGEVAVDAQLYEEAFAIFKKFNLNVQAVNVLLDNVRSIERAVEFAFRVEEDAVWSQVAKAQLREGLVSDAIESFIRADDTTQFLEVIRASEDTNVYDDLVRYLLMVRQKVKEPKVDSELIYAYAKIERLGEIEEFILMPNVANLQHVGDRLYDEALYEAAKIIYAFISNWAKLAVTLVKLQQFQGAVDAARKANSAKTWKEVCFACVDAEEFRLAQICGLNIIIQVDDLEEVSEYYQNRGCFNELISLMESGLGLERAHMGIFTELGVLYARYRYEKLMEHIKLFSTRLNIPKLIRACDEQQHWQELTYLYIQYDEFDNAATTVMNHSPEAWEHMQFKDIVAKVANVELYYKAVHFYLQEHPDIINDLLNVLALRLDHTRVVDIMRKAGHLRLIKPYMVAVQSNNVSAVNEALNEIYAEEEDYDRLRESIDLHDSFDQIGLAQKIEKHELVEMRRVAAYIYKKAGRWKQSIALSKKDNMYKDCMETASQSGDHDLAEQLLVYFIEQGKKECFATCLFVCYDLIRPDVALELAWINNMIDFAFPYLLQFIREYSGKVDELIKDKLEAQKEVKAKEQEEKDVMSQQNMYAQLLPLALPAPPMPGMGGGGYGPPPQMGGMPGMSGMPPMPPYGMPPMGGY |
| 6452 | sp|Q9Y5I7|CLD16\_HUMAN | MTSRTPLLVTACLYYSYCNSRHLQQGVRKSKRPVFSHCQVPETQKTDTRHLSGARAGVCPCCHPDGLLATMRDLLQYIACFFAFFSAGFLIVATWTDCWMVNADDSLEVSTKCRGLWWECVTNAFDGIRTCDEYDSILAEHPLKLVVTRALMITADILAGFGFLTLLLGLDCVKFLPDEPYIKVRICFVAGATLLIAGTPGIIGSVWYAVDVYVERSTLVLHNIFLGIQYKFGWSCWLGMAGSLGCFLAGAVLTCCLYLFKDVGPERNYPYSLRKAYSAAGVSMAKSYSAPRTETAKMYAVDTRV |
| 6453 | sp|Q9BT09|CNPY3\_HUMAN | MDSMPEPASRCLLLLPLLLLLLLLLPAPELGPSQAGAEENDWVRLPSKCEVCKYVAVELKSAFEETGKTKEVIGTGYGILDQKASGVKYTKSDLRLIEVTETICKRLLDYSLHKERTGSNRFAKGMSETFETLHNLVHKGVKVVMDIPYELWNETSAEVADLKKQCDVLVEEFEEVIEDWYRNHQEEDLTEFLCANHVLKGKDTSCLAEQWSGKKGDTAALGGKKSKKKSSRAKAAGGRSSSSKQRKELGGLEGDPSPEEDEGIQKASPLTHSPPDEL |
| 6454 | sp|D3Z3K2|CIP1\_MOUSE | MSLCEDMLLCNYRKCRIKLSGYAWVTACSHIFCDQHGSGEFSRSPAICPACNSTLSGKLDIVRTELSPSEEYKAMVLAGLRPEVVLDISSRALAFWTYQVHQERLYQEYNFSKAENHLKQMEKMYMQQIQSKNIELTSMKGEVISMKKVLEEYKKKFSDISEKLMERNRQYQKLQGLYDSLRLRNITIASQEGSLEPGMIPQSGVFGFPPGNNSKFSLDHIPVGNQGGGDEDVQFRPFFVCSPTAPEPINNFFSFASPSHEAEQQVCSRAFKAKRI |
| 6455 | sp|Q2V452|CIPK3\_ARATH | MNRRQQVKRRVGKYEVGRTIGEGTFAKVKFARNSETGEPVALKILDKEKVLKHKMAEQIRREIATMKLIKHPNVVQLYEVMASKTKIFIILEYVTGGELFDKIVNDGRMKEDEARRYFQQLIHAVDYCHSRGVYHRDLKPENLLLDSYGNLKISDFGLSALSQQVRDDGLLHTSCGTPNYVAPEVLNDRGYDGATADMWSCGVVLYVLLAGYLPFDDSNLMNLYKKISSGEFNCPPWLSLGAMKLITRILDPNPMTRVTPQEVFEDEWFKKDYKPPVFEERDDSNMDDIDAVFKDSEEHLVTEKREEQPAAINAFEIISMSRGLNLENLFDPEQEFKRETRITLRGGANEIIEKIEEAAKPLGFDVQKKNYKMRLENVKAGRKGNLNVATEIFQVAPSLHMVQVSKSKGDTLEFHKFYKKLSNSLEQVVWTNNEVKKETAK |
| 6456 | sp|Q8MIR4|COASY\_PIG | MAVFRSGLLVLTTPLASLVPRLAPILTSAARLVNHTLYVHLQPGMNLGGPAQPQSSPVQATFEVIDFITHLYAGADLHRHLDVRILLTNIRTKSFLPPLPSSVQNLAHPPEVVLTDFQTLDGSQYNPVKQQLERYATSCYSCCPQLSSVLLYPDYGPGMLPVQPLDVPLPSTIRPASPVARSAKQPVRGHQRGAVGGTFDRLHNAHKVLLSVACILAQEQLVVGVADKDLLKSKLLPELLQPYTERVEHLSEFLVDIKPSLSFDLIPLLDPYGPAGSDPSLEFLVVSEETYRGGMAVNRFRLENGLEELTLYQIQLLKDLNPKENEEDKVSSSSFRQQMLGNLLRPPHKRPELPPGCYVIGLTGISGSGKSSVAQRLKGLGAYVIDSDQLGHRSYAPGGPAYQPVVEAFGTDILHKDGTINRKVLGSRVFGNKKQLKILTDIVWPVIAKLAREEVDQAVAEGKRVCVIDAAVLLEAGWQNMVHEVWTVVIPETEAVRRIVERDGLSEAAAQSRLQSQMSGQQLVDQSHVVLSTLWEPHVTQRQVEKAWALLQKRISEAPSDP |
| 6457 | sp|P08649|CO4\_RAT | MRLLWGLAWAFSFFASSLQKPRLLLFSPSVVNLGTPLSVGVQLLDAPAGQEVKGSVYLRNPTSGPCSPKKDFKLSSGNDFVLLRLEVPLKDVRSCGLFGLRRAPHIQLVAHSPWLKNTASKATETQGVNLLFSSRRGHIFVQTDQPIYNPGQRVRYRVFALDQKMRPSTDTLTVTVENSHGLRVRKKEVFAPTSIFQDDFIIPDISEPGTWKISARFSDGLESNRSTHFEVKKYVLPNFEVKLTPWKPYILTVPSYREEIQLDVQARYVYGKPVQGVAYTRFALMDEQGKKSFLRGLETQTKLVEGQTHISISRDQFQAALGKVNTEIGDLEGLRLYAAVAVIESPGGEMEEAELTSWPFVSSAFSLDLSHTKQHLVPGAPFLLQALVREMSGSEASDVPVKVSATLLSGSDSKVLDFQQNTNGIGQVSFSIHVPPTITELRLLVSAGSLYPAVAKLTVQAPPSRGPGFLSIEPLDLRSPRVGDTFVLSLRTVGIPMPTFSHYYYMIISRGQIMAMSREPRRALTSISVLVDHHLAPSFYFVAYFYHQGLPVANSLLINVQPGDCEGKLELKVDGAKEYRNGDSMKLQLQTDSEALVALGAVDTALYAVGGRSHKPLDMSKVFEVMNSYNLGCGPGGGDDALQVFQTAGLAFSDGDRLTQTKENLSCPKEKKSRQKRNVNFQKAISEKLGQYSSPDTKRCCQDGMTKLPMARTCEQRAARVPQPACREPFLSCCKFAEDLRRNQTRSQAGLARAQDMLQEEDLIDEDDILVRSFFPENWLWRVEPVDRSKLLTVWLPDSLTTWEIHGVSLSKSKGLCVAKPTRVRVFREFHLHLRLPISVRRFEQLELRPVLYNYLSEDVTVSVHVSPVEGLCLAGGGLLAQQVSVPAGSARPVAFSVVPTAAASIPLKVVARGSFTIGDAVSKILQIEKEGAIHREEIVYNLDPLNNLGRSLEIPGSSDPNVIPDGDFSSFVRVTASEPLETLGSEGALSPGGVASLLRLPRGCAEQTMIYLAPTLTASHYLDRTEQWSKLPPETKDHAVDLIQKGHMRIQQFRKKDGSFGAWLHRDSSTWLTAFVLKILSLAQEQIGDSPEKLQETAGWLLGQQLDDGSFHDPCPVIHRGMQGGLVGTDETVALTAFVVIALHHGLAVFQDENSQQLKKRVEASITKANSFLGQKASAGLLGAHASAITAYALTLTKASEDLQNVAHNSLMAMAEETGENLYWGSAIGSQDNVVSSTPAPRNPSEPVPQAPALWIETTAYGLLHLLLREGKGEMADKVATWLTHQGSFQGGFRSTQDTVVTLDALSAYWIASHTTEEKALNVTLSSMGRNGYKSHLLQLNNHQVKGLEEELKFSLGSTINVKVGGNSKGTLKILRTYNVLDMKNTTCQDLRIEVTVTGYVEYTREANEDYEYDYDMPAADDPSVHSQPVTPLQLFEGRRSRRRREAPKAADEQESRVQYTVCIWRNGNLGLSGMAIADITLLSGFQALRADLEKLTSLSDRYVSHFETDGPHVLLYFDSVPTTRECVGFGALQEVAVGLVQPASAVLYDYYSPDHKCSVFYAAPTKSKLLSTLCSADVCQCAEGKCPRQRRSLERGVEDKDGYRMKFACYYPRVEYGFQVKVLREDSRAAFRLFETKITQVLHFTKDAKASIGQTRNFLVRASCRLRLEPSKEYLIMGMDGVTSDLKGDPQYLLDSNTWIEEMPSERLCRSTRQRAACGQLNDFLQEYSSQGCQV |
| 6458 | sp|Q9WVS9|CLOCK\_RAT | MLFTVSCSKMSSIVDRDDSSIFDGLVEEDDKDKAKRVSRNKSEKKRRDQFNVLIKELGSMLPGNARKMDKSTVLQKSIDFLRKHKEITAQSDASEIRQDWKPTFLSNEEFTQLMLEALDGFFLAIMTDGSIIYVSETVTSLLEHLPSDLVDQSIFNFIPEGEHSEVYKILSTHLLESDSLTPEDLKSKNQLEFCCHMLRGTIDPKEPSTYEYVRFIGNFKSLNSVSTSTHNGFEGTIQRTHRPSYEDRVCFVATVRLATPQFIKEMCTVEEPNEEFTSRHSLEWKFLFLDHRAPPIIGYLPFEVLGTSGYDYYHVDDLESLAKCHEHLMQYGKGKSCYYRFLTKGQQWIWLQTHYYITYHQWNSRPEFIVCTHTVVSYAEVRAERRRELGVEESLPETAADKSQDSGSDNRINTVSLKEALERFDHSPTPSASSRSSRKSSHTAVSDPSSTPTKIPTDTSTPPRPHLPAHEKMTQRRSSFSSQSINSQSVGSSLTQPAMSQAANLPIPQGMSQFQLSAQLGAMQHLKDQLEQRTRMIEANIHRQQEELRKIQEQLQMVHGQGLQMFLQQSNPGLNLGSVQLSSGNSNIQQLTPINMQGQVVPVNQIQSGVNAGHVSTGQHMIQQQTLQSTSTQSQQSVMSGHSQPTSLPNQTPSTLTAPLYNTMVISQPAAGSMVPIPSSMPQNSTQSATVTTFTQDRQIRFSQGQQLVTKLVTAPVACGAVMVPSTMLMGQVVTAYPTFATQQQQAQALSVTQQQQQQQQQQQQQQQQQPQQAQQPQSQQSSQDQPHPSVQQPAQLTQPPQQFLQTSRLLHGNPSTQLILSAAFPLQQSTFPPSHHQQHQQQQLHRHRTDSLTDPSKVQPQ |
| 6459 | sp|Q9JLH6|CK5P1\_RAT | MHPLQRVFRAQRLSAPLTSMCWVLLRTFRAHNSTSCPDPEGKSSEGVQKDFSSRLATGPTFQHFLRSASVPQEKPSSPEVEDPPPYLSGDELLGRQRKVYLETYGCQMNVNDTEIAWSILQKSGYLRTSNLQEADVILLVTCSIREKAEQTIWNRLHQLKVLKAKRPRSRVPLRIGILGCMAERLKGEILNREKMVDLLAGPDAYRDLPRLLAVVESGQQAANVLLSLDETYADIMPVQTSPSATSAFVSIMRGCDNMCSYCIVPFTRGRERSRPVASILDEVRKLSEQGLKEVTLLGQNVNSFRDNSEVQFSSTGSANLSRGFTTNYKPKQGGLRFSHLLDQVSRIDPEMRIRFTSPHPKDFPDEVLQLIRERHNICKQIHLPAQSGSSRVLEAMRRGYSREAYVALVHHIREAIPGVGLSSDFITGFCGETEDDHLQTVSLLREVQYNTGFLFAYSMRQKTRAYHRLKDDVPEEVKLRRLEELITVFREEASKVNATSVGCTQLVLVEGFSKRSTTDLCGRNDANLKVIFPDAEVEDITDPGLKVRAQPGDYVLVKIISASSQTLKGHILCRTTMKDSSMNCLT |
| 6460 | sp|Q9CQB5|CISD2\_MOUSE | MVLDSVARIVKVQLPAYLKQLPVPDSITGFARLTVSDWLRLLPFLGVLALLGYLAVRPFFPKKKQQKDSLINLKIQKENPKVVNEINIEDLCLTKAAYCRCWRSKTFPACDGSHNKHNELTGDNVGPLILKKKEV |
| 6461 | sp|P38323|CLPX\_YEAST | MLKSASQNFFRAYSSRIGRYAATASGKLAQSRLSNIPTPKALKKFLDEYIVGQEIGKKVLSVAVYNHYLRINDKQKKGELQRQRELMEREKIADDRDEPIFSGNSESKAGWRNLQRQFNLAGREVDEDLELSKSNVLVVGPSGSGKTLLATTLAKILNVPIAITDCTQLTQAGYIGEDVEVCIERLLVNAEFDVARAEKGIIVLDEIDKLAKPAASIGTKDVSGEGVQQSLLKIIEGHKVEITVKRPVKHDIDGQKNQTTTKKDEVFVVDTSNILFMIMGAFVGLDKHIVKRIEDMKKIQKAGESVESSNSKEVEKERAKKFRFSNTLEQVELDNGKKVCALDLTTPTDLVSFGLIPELIGRVPIITALQPLQRDDLFHILKEPKNALLDQYEYIFKQFGVRLCVTQKALKKVAQFALKEGTGARGLRGIMERLLLNVNYDCPGSNIAYVLIDEATVDSLQETEHSLASQVDVKYYSGDEKDSLIRDVSEEDKKLGVMLEKELGHSANIHTPTIPKRSLT |
| 6462 | sp|Q9LNC5|CLO\_ARATH | MESSLYDEFGNYVGPEIESDRDSDDEVEDEDLQDKHLEENGSDGEQGPGGSNGWITTINDVEMENQIVLPEDKKYYPTAEEVYGEDVETLVMDEDEQPLEQPIIKPVRDIRFEVGVKDQATYVSTQFLIGLMSNPALVRNVALVGHLQHGKTVFMDMLVEQTHHMSTFNAKNEKHMKYTDTRVDEQERNISIKAVPMSLVLEDSRSKSYLCNIMDTPGHVNFSDEMTASLRLADGAVLIVDAAEGVMVNTERAIRHAIQDHLPIVVVINKVDRLITELKLPPRDAYYKLRHTIEVINNHISAASTTAGDLPLIDPAAGNVCFASGTAGWSFTLQSFAKMYAKLHGVAMDVDKFASRLWGDVYYHSDTRVFKRSPPVGGGERAFVQFILEPLYKIYSQVIGEHKKSVETTLAELGVTLSNSAYKLNVRPLLRLACSSVFGSASGFTDMLVKHIPSPREAAARKVDHSYTGTKDSPIYESMVECDPSGPLMVNVTKLYPKSDTSVFDVFGRVYSGRLQTGQSVRVLGEGYSPEDEEDMTIKEVTKLWIYQARYRIPVSSAPPGSWVLIEGVDASIMKTATLCNASYDEDVYIFRALQFNTLPVVKTATEPLNPSELPKMVEGLRKISKSYPLAITKVEESGEHTILGTGELYLDSIMKDLRELYSEVEVKVADPVVSFCETVVESSSMKCFAETPNKKNKITMIAEPLDRGLAEDIENGVVSIDWNRKQLGDFFRTKYDWDLLAARSIWAFGPDKQGPNILLDDTLPTEVDRNLMMAVKDSIVQGFQWGAREGPLCDEPIRNVKFKIVDARIAPEPLHRGSGQMIPTARRVAYSAFLMATPRLMEPVYYVEIQTPIDCVTAIYTVLSRRRGHVTSDVPQPGTPAYIVKAFLPVIESFGFETDLRYHTQGQAFCLSVFDHWAIVPGDPLDKAIQLRPLEPAPIQHLAREFMVKTRRRKGMSEDVSGNKFFDEAMMVELAQQTGDLHLQMI |
| 6463 | sp|Q96H96|COQ2\_HUMAN | MLGSRAAGFARGLRALALAWLPGWRGRSFALARAAGAPHGGDLQPPACPEPRGRQLSLSAAAVVDSAPRPLQPYLRLMRLDKPIGTWLLYLPCTWSIGLAAEPGCFPDWYMLSLFGTGAILMRGAGCTINDMWDQDYDKKVTRTANRPIAAGDISTFQSFVFLGGQLTLALGVLLCLNYYSIALGAGSLLLVITYPLMKRISYWPQLALGLTFNWGALLGWSAIKGSCDPSVCLPLYFSGVMWTLIYDTIYAHQDKRDDVLIGLKSTALRFGENTKPWLSGFSVAMLGALSLVGVNSGQTAPYYAALGAVGAHLTHQIYTLDIHRPEDCWNKFISNRTLGLIVFLGIVLGNLWKEKKTDKTKKGIENKIEN |
| 6464 | sp|O76031|CLPX\_HUMAN | MPSCGACTCGAAAVRLITSSLASAQRGISGGRIHMSVLGRLGTFETQILQRAPLRSFTETPAYFASKDGISKDGSGDGNKKSASEGSSKKSGSGNSGKGGNQLRCPKCGDLCTHVETFVSSTRFVKCEKCHHFFVVLSEADSKKSIIKEPESAAEAVKLAFQQKPPPPPKKIYNYLDKYVVGQSFAKKVLSVAVYNHYKRIYNNIPANLRQQAEVEKQTSLTPRELEIRRREDEYRFTKLLQIAGISPHGNALGASMQQQVNQQIPQEKRGGEVLDSSHDDIKLEKSNILLLGPTGSGKTLLAQTLAKCLDVPFAICDCTTLTQAGYVGEDIESVIAKLLQDANYNVEKAQQGIVFLDEVDKIGSVPGIHQLRDVGGEGVQQGLLKLLEGTIVNVPEKNSRKLRGETVQVDTTNILFVASGAFNGLDRIISRRKNEKYLGFGTPSNLGKGRRAAAAADLANRSGESNTHQDIEEKDRLLRHVEARDLIEFGMIPEFVGRLPVVVPLHSLDEKTLVQILTEPRNAVIPQYQALFSMDKCELNVTEDALKAIARLALERKTGARGLRSIMEKLLLEPMFEVPNSDIVCVEVDKEVVEGKKEPGYIRAPTKESSEEEYDSGVEEEGWPRQADAANS |
| 6465 | sp|P31388|5HT6R\_RAT | MVPEPGPVNSSTPAWGPGPPPAPGGSGWVAAALCVVIVLTAAANSLLIVLICTQPALRNTSNFFLVSLFTSDLMVGLVVMPPAMLNALYGRWVLARGLCLLWTAFDVMCCSASILNLCLISLDRYLLILSPLRYKLRMTAPRALALILGAWSLAALASFLPLLLGWHELGKARTPAPGQCRLLASLPFVLVASGVTFFLPSGAICFTYCRILLAARKQAVQVASLTTGTAGQALETLQVPRTPRPGMESADSRRLATKHSRKALKASLTLGILLGMFFVTWLPFFVANIAQAVCDCISPGLFDVLTWLGYCNSTMNPIIYPLFMRDFKRALGRFLPCVHCPPEHRPALPPPPCGPLTAVPDQASACSRCCLCLCRQTQIQTPLQGAPRACSSQPSFCCLERPPGTPRHPPGPPLWSTSLSQTLWSLRYGRIHSVPP |
| 6466 | sp|Q8R2Y0|ABHD6\_MOUSE | MDLDVVNMFVIAGGTLAIPILAFVASFLLWPSALIRIYYWYWRRTLGMQVRYAHHEDYQFCYSFRGRPGHKPSILMLHGFSAHKDMWLSVVKFLPKNLHLVCVDMPGHEGTTRSSLDDLSIVGQVKRIHQFVECLKLNKKPFHLIGTSMGGHVAGVYAAYYPSDVCSLSLVCPAGLQYSTDNPFVQRLKELEESAAIQKIPLIPSTPEEMSEMLQLCSYVRFKVPQQILQGLVDVRIPHNSFYRKLFLEIVNEKSRYSLHENMDKIKVPTQIIWGKQDQVLDVSGADILAKSISNSQVEVLENCGHSVVMERPRKTAKLIVDFLASVHNTDNKKLN |
| 6467 | sp|P92177|1433E\_DROME | MTERENNVYKAKLAEQAERYDEMVEAMKKVASMDVELTVEERNLLSVAYKNVIGARRASWRIITSIEQKEENKGAEEKLEMIKTYRGQVEKELRDICSDILNVLEKHLIPCATSGESKVFYYKMKGDYHRYLAEFATGSDRKDAAENSLIAYKAASDIAMNDLPPTHPIRLGLALNFSVFYYEILNSPDRACRLAKAAFDDAIAELDTLSEESYKDSTLIMQLLRDNLTLWTSDMQAEEVDPNAGDGEPKEQIQDVEDQDVS |
| 6468 | sp|Q10428|2AD1\_SCHPO | MKGIKSKMLSRGKSQDTQKSSKKKESKKSNSHDSSKAPKESPSTDPNGSVIGAQNDFLTVPKHSGKKVPIDTTPTPRDEILLENVRTVRKQRSSLYHISENRNLVRLPSFTDVPVNKWHSLALEKLEQCCVVFDFNDPSTDLYGKEVKREALQDLIDLISVRKEAIDESLYPSIVHMFAVNVFRPLPPPSNPPGEIMDLEEDEPALEVAWPHLHLVYDFFLRFFESPSLNTSVAKVYINQKFIRKLLVLFDSEDPRERDFLKTTLHRIYGKFLSLRAFIRRSINNLFLQFVYENEQFNGIAELLEILGSIINGFALPLKEEHKIFLSRVLIPLHKAKSLPLYYPQIAYGIVQFVEKDSSVTEEVVLGLLRYWPKVNSSKEVLFLNEIEDIIEVMEPSEFLKIQVPLFHKLATSISSQNFQVAERALYFFNNDYFVHLVEENVDIILPIIYPALFEISKSHWNRVIHSMVCNVLKLFMDINPSLFDEVDAEYSESRRKKEDEEIIREERWTILENIAKENAMKLKSQNPTTVHSTTERLKKLSLDYTNG |
| 6469 | sp|Q9STP8|ACBP2\_ARATH | MGDWAQLAQSVILGLIFSYLLAKLISIVVTFKEDNLSLTRHPEESQLEIKPEGVDSRRLDSSCGGFGGEADSLVAEQGSSRSDSVAGDDSEEDDDWEGVESTELDEAFSAATLFVTTAAADRLSQKVPSDVQQQLYGLYKIATEGPCTAPQPSALKMTARAKWQAWQKLGAMPPEEAMEKYIEIVTQLYPTWLDGGVKAGSRGGDDAASNSRGTMGPVFSSLVYDEESENELKIDAIHGFAREGEVENLLKSIESGIPVNARDSEGRTPLHWAIDRGHLNIAKVLVDKNADVNAKDNEGQTPLHYAVVCDREAIAEFLVKQNANTAAKDEDGNSPLDLCESDWPWIRDSAKQAD |
| 6470 | sp|Q9V3R1|A36DE\_DROME | MWTLTCQQFIALILLGTLVPSESFLCKHCFRKNLEKVHESFRDILSPPIFGVNPQPLIEVQQPKVTPKPESSQVIHVHQPQVILKPIYYPKVDTISTKNQIGIHGPYSQYPSLLPSANLLGIPNQQLINAQDVLSDKDQKQTQVQNNNLHIRFGVSALREGRNNPSLETISRDKVDKISPALQLQLLRYADSQSQSQTQSQSASQSESNASSQFQAQEQSNRLLENPPVSESQSQSESQSQSESQKQSQSQSQRQQQIQTQLQILRQLQQKSNEQSAAQSASQIQSQRQSDSQSNLQLQEQSQSQSEQGKPIQSQIQILQGLQQKELDDKSASQSQSESKTRQEQQKQLNLQQLEELSSSLSQSRLGLGQQIQSQLQKNQLDKQFASQFQSQSKSQLEQQMQLQLQSLRQLQQKQLDEQSASQSQPQSQVAQQIQSHLQLLRLLQSRLKTQSALKSDLEQQILLQLKKLTEVQQKQLAEQPTLRPSSKSQSPGQLEQQILLQLQNLLQFQQNQLKSDTQTQSQLQESKSNSLSQSQSQSQEQLQLQRDQNLRQLEQIKLEMQNIRELLQKGKSELQTQSDSQRRIHELYQNILQLNKEKLSYQLKQLKLKELEDQKKSQAEISKGSNPSNLFIIGQLPSEGKPAPGNQGPSIEPKLVPQPGSLDKLPSGGGLIGKPASTGLYILSPDFNDLSDYRDQFRLQQELKKHQNILSLLQRRQNDIKKQQNAQLLLGQQQKEQQAQESINKQQSSSAGSSSQTKLQQDIQSTGAQGSQQGLQAGSTGLQTSSLQGTESSASQSAALQRLKEQEQLRIQTENDQKTSSSSSHSNSQNSQSSSSQSSQASQSEAQRQEAGNRNTLLLDQSSSKTQSESKSESSSQSSSHSSSQSTSNSSSNVQSKLQGESQALLNNLSG |
| 6471 | sp|P68510|1433F\_MOUSE | MGDREQLLQRARLAEQAERYDDMASAMKAVTELNEPLSNEDRNLLSVAYKNVVGARRSSWRVISSIEQKTMADGNEKKLEKVKAYREKIEKELETVCNDVLALLDKFLIKNCNDFQYESKVFYLKMKGDYYRYLAEVASGEKKNSVVEASEAAYKEAFEISKEHMQPTHPIRLGLALNFSVFYYEIQNAPEQACLLAKQAFDDAIAELDTLNEDSYKDSTLIMQLLRDNLTLWTSDQQDEEAGEGN |
| 6472 | sp|P9WKK7|ACEA\_MYCTU | MSVVGTPKSAEQIQQEWDTNPRWKDVTRTYSAEDVVALQGSVVEEHTLARRGAEVLWEQLHDLEWVNALGALTGNMAVQQVRAGLKAIYLSGWQVAGDANLSGHTYPDQSLYPANSVPQVVRRINNALQRADQIAKIEGDTSVENWLAPIVADGEAGFGGALNVYELQKALIAAGVAGSHWEDQLASEKKCGHLGGKVLIPTQQHIRTLTSARLAADVADVPTVVIARTDAEAATLITSDVDERDQPFITGERTREGFYRTKNGIEPCIARAKAYAPFADLIWMETGTPDLEAARQFSEAVKAEYPDQMLAYNCSPSFNWKKHLDDATIAKFQKELAAMGFKFQFITLAGFHALNYSMFDLAYGYAQNQMSAYVELQEREFAAEERGYTATKHQREVGAGYFDRIATTVDPNSSTTALTGSTEEGQFH |
| 6473 | sp|P46098|5HT3A\_HUMAN | MLLWVQQALLALLLPTLLAQGEARRSRNTTRPALLRLSDYLLTNYRKGVRPVRDWRKPTTVSIDVIVYAILNVDEKNQVLTTYIWYRQYWTDEFLQWNPEDFDNITKLSIPTDSIWVPDILINEFVDVGKSPNIPYVYIRHQGEVQNYKPLQVVTACSLDIYNFPFDVQNCSLTFTSWLHTIQDINISLWRLPEKVKSDRSVFMNQGEWELLGVLPYFREFSMESSNYYAEMKFYVVIRRRPLFYVVSLLLPSIFLMVMDIVGFYLPPNSGERVSFKITLLLGYSVFLIIVSDTLPATAIGTPLIGVYFVVCMALLVISLAETIFIVRLVHKQDLQQPVPAWLRHLVLERIAWLLCLREQSTSQRPPATSQATKTDDCSAMGNHCSHMGGPQDFEKSPRDRCSPPPPPREASLAVCGLLQELSSIRQFLEKRDEIREVARDWLRVGSVLDKLLFHIYLLAVLAYSITLVMLWSIWQYA |
| 6474 | sp|P32305|5HT7R\_RAT | MMDVNSSGRPDLYGHLRSLILPEVGRGLQDLSPDGGAHPVVSSWMPHLLSGFLEVTASPAPTWDAPPDNVSGCGEQINYGRVEKVVIGSILTLITLLTIAGNCLVVISVCFVKKLRQPSNYLIVSLALADLSVAVAVMPFVSVTDLIGGKWIFGHFFCNVFIAMDVMCCTASIMTLCVISIDRYLGITRPLTYPVRQNGKCMAKMILSVWLLSASITLPPLFGWAQNVNDDKVCLISQDFGYTIYSTAVAFYIPMSVMLFMYYQIYKAARKSAAKHKFPGFPRVQPESVISLNGVVKLQKEVEECANLSRLLKHERKNISIFKREQKAATTLGIIVGAFTVCWLPFFLLSTARPFICGTSCSCIPLWVERTCLWLGYANSLINPFIYAFFNRDLRTTYRSLLQCQYRNINRKLSAAGMHEALKLAERPERSEFVLQNSDHCGKKGHDT |
| 6475 | sp|P20004|ACON\_BOVIN | MAPYSLLVSRLQKALGARQYHVASVLCQRAKVAMSHFEPNEYIRYDLLEKNINIVRKRLNRPLTLSEKIVYGHLDDPANQEIERGKTYLRLRPDRVAMQDATAQMAMLQFISSGLPKVAVPSTIHCDHLIEAQLGGEKDLRRAKDINQEVYNFLATAGAKYGVGFWRPGSGIIHQIILENYAYPGVLLIGTDSHTPNGGGLGGICIGVGGADAVDVMAGIPWELKCPKVIGVKLTGSLSGWTSPKDVILKVAGILTVKGGTGAIVEYHGPGVDSISCTGMATICNMGAEIGATTSVFPYNHRMKKYLSKTGRADIANLADEFKDHLVPDSGCHYDQLIEINLSELKPHINGPFTPDLAHPVAEVGSVAEKEGWPLDIRVGLIGSCTNSSYEDMGRSAAVAKQALAHGLQCKSQFTITPGSEQIRATIERDGYAQILRDVGGIVLANACGPCIGQWDRKDIKKGEKNTIVTSYNRNFTGRNDANPETHAFVTSPEIVTALAIAGTLKFNPETDFLTGKDGKKFKLEAPDADELPRAEFDPGQDTYQHPPKDSSGQQVDVSPTSQRLQLLEPFDKWDGRDLEDLQILIKVKGKCTTDHISAAGPWLKFRGHLDNISNNLLIGAINVENGKANSVRNAVTQEFGPVPDTARYYKKHGIRWVVIGDENYGEGSSREHAALEPRHLGGRAIITKSFARIHETNLKKQGLLPLTFADPADYNKIHPVDKLTIKGLKDFAPGKPLTCIIKHPNGTQETILLNHTFNETQIEWFRAGSALNRMKELQK |
| 6476 | sp|P13221|AATC\_RAT | MAPPSFFAQVPQAPPVLVFKLIADFRDDPDPRKVNLGVGAYRTDDSQPWVLPVVRKVEQKIANDHSLNHEYLPILGLAEFRSCASQLVLGDNSPALRENRVGGVQSLGGTGALRIGADFLGRWYNGTDNKNTPVYVSSPTWENHNGVFSAAGFKDIRSYRYWDAEKRGLDLQGFLNDLENAPEFSIFVLHACAHNPTGTDPTEEEWKQIAAVMKRRFLFPFFDSAYQGFASGDLEKDAWAIRYFVSEGFELFCAQSFSKNFGLYNERVGNLTVVGKEHDSVLRVLSQMEKIVRITWSNPPAQGARIVATTLSNPELFKEWKGNVKTMADRILTMRSELRARLEALKTPGTWSHITEQIGMFSFTGLNPKQVEYLVNEKHIYLMPSGRINMCGLTTKNLDYVATSINEAVTKFQ |
| 6477 | sp|Q8K592|AMHR2\_MOUSE | MLGTLGLWTLLPAAAQVSPNRRTCVFFEAPGVRGSTKTLGEMVDAGPGPPKGIRCLYSHCCFGIWNLTHGRAQVEMQGCRDSDEPGCESLHCDPVPRAHPNPSSTLFTCSCGTDFCNANYSHLPPSGNQGAPGPQEPQATPGGPVWMALLLLGMFLVLLLSSIILALLQRKACRVQGGSDPEPGSGGDCSEELPELAELRFSQVIQEGGHAVVWAGRLQGEMVAIKAFPPRAVAQFRAERAVYQLLGLQHDHIVRFITAGQGGPGPLPSGPLLVLELYPKGSLCHYLTQYTSDWGSSLRMALSLAEGLAFLHEERWQDGQYKPGIAHRDLSSQNVLIREDRSCAIGDLGLALVLPGLAQPPALAPTQPRGPAAILEAGTQRYMAPELLDKTLDLQDWGTALQRADVYSLALLLWEILSRCSDLRPDHRPPPFQLAYEAELGSNPSACELWALAVEERKRPNIPSTWSCSATDPRGLRELLEDCWDADPEARLTAECVQQRLAALAYPHGASSFPESPQGCPENCLSAPASAVFPCRPQQSSCLLSVQQGPGSRSPDPVGDTVQVYVNE |
| 6478 | sp|P36639|8ODP\_HUMAN | MYWSNQITRRLGERVQGFMSGISPQQMGEPEGSWSGKNPGTMGASRLYTLVLVLQPQRVLLGMKKRGFGAGRWNGFGGKVQEGETIEDGARRELQEESGLTVDALHKVGQIVFEFVGEPELMDVHVFCTDSIQGTPVESDEMRPCWFQLDQIPFKDMWPDDSYWFPLLLQKKKFHGYFKFQGQDTILDYTLREVDTV |
| 6479 | sp|Q04771|ACVR1\_HUMAN | MVDGVMILPVLIMIALPSPSMEDEKPKVNPKLYMCVCEGLSCGNEDHCEGQQCFSSLSINDGFHVYQKGCFQVYEQGKMTCKTPPSPGQAVECCQGDWCNRNITAQLPTKGKSFPGTQNFHLEVGLIILSVVFAVCLLACLLGVALRKFKRRNQERLNPRDVEYGTIEGLITTNVGDSTLADLLDHSCTSGSGSGLPFLVQRTVARQITLLECVGKGRYGEVWRGSWQGENVAVKIFSSRDEKSWFRETELYNTVMLRHENILGFIASDMTSRHSSTQLWLITHYHEMGSLYDYLQLTTLDTVSCLRIVLSIASGLAHLHIEIFGTQGKPAIAHRDLKSKNILVKKNGQCCIADLGLAVMHSQSTNQLDVGNNPRVGTKRYMAPEVLDETIQVDCFDSYKRVDIWAFGLVLWEVARRMVSNGIVEDYKPPFYDVVPNDPSFEDMRKVVCVDQQRPNIPNRWFSDPTLTSLAKLMKECWYQNPSARLTALRIKKTLTKIDNSLDKLKTDC |
| 6480 | sp|P10731|AMD\_BOVIN | MAGFRSLLVLLLVFPSGCVGFRSPLSVFKRFKETTRSFSNECLGTTRPVIPIDSSDFALDIRMPGVTPKQSDTYFCMSVRLPMDEEAFVIDFKPRASMDTVHHMLLFGCNMPASTGNYWFCDEGTCTDKANILYAWARNAPPTRLPKGVGFRVGGETGSKYFVLQVHYGDISAFRDNHKDCSGVSLHLTRLPQPLIAGMYLMMSVDTVIPPGGKVVNSDISCHYKKYPMHVFAYRVHTHHLGKVVSGYRVRNGQWTLIGRQSPQLPQAFYPVEHPVDVSFGDILAARCVFTGEGRTEVTHIGGTSSDEMCNLYIMYYMEAKHAVSFMTCTQNVAPDIFRTIPPEANIPIPVKSDMVMMHGHHKETENKDKTSLLQQPKREEEGVLEQGDFYSLLSKLLGEREDVVHVHKYNPTEKAESESDLVAEIANVVQKKDLGRSDTRESAEQERGNAILVRDRIHKFHRLVSTLRPAESRVLSLQQPLPGEGTWEPEHTGDFHVEEALDWPGVYLLPGQVSGVALDPQNNLVIFHRGDHVWDGNSFDSKFVYQQRGLGPIEEDTILVIDPNNAAVLQSSGKNLFYLPHGLSIDKDGNYWVTDVALHQVFKLDPKSKEGPLLTLGRSMQPGSDQNHFCQPTDVAVDPDTGTIYVSDGYCNSRLVQFSPSGKFITQWGEASLESSPKPGQFRVPHSLALVPPLGQLCVADRENGRIQCFKTDTKEFVREIKHPSFGRNVFAISYIPGLLFAVNGKPYFEDQEPVQGFVMNFSSGEIIDVFKPVRKHFDMPHDIAASEDGTVYVGDAHTNTVWKFTSTEKMEHRSVKKAGIEVQEIKESEAVVETKMENKPASSELQKIQEKQKLVKEPGSGVPAVLITTLLVIPVVVLLAIALFIRWKKSRAFGDSERKLEASSGRVLGRLRGKGGGGLNLGNFFASRKGYSRKGFDRLSTEGSDQEKDEDASESEEEYSAPPPAPAPSS |
| 6481 | sp|Q2PS07|2SS\_FAGES | MKLFIILATATLLIAATQATYPRDEGFDLGETQMSSKCMRQVKMNEPHLKKCNRYIAMDILDDKYAEALSRVEGEGCKSEESCMRGCCVAMKEMDDECVCEWMKMMVENQKGRIGERLIKEGVRDLKELPSKCGLSELECGSRGNRYFV |
| 6482 | sp|O81852|AKH2\_ARATH | MATLKPSFTVSPPNSNPIRFGSFPPQCFLRVPKPRRLILPRFRKTTGGGGGLIRCELPDFHLSATATTVSGVSTVNLVDQVQIPKGEMWSVHKFGGTCVGNSQRIRNVAEVIINDNSERKLVVVSAMSKVTDMMYDLIRKAQSRDDSYLSALEAVLEKHRLTARDLLDGDDLASFLSHLHNDISNLKAMLRAIYIAGHASESFSDFVAGHGELWSAQMLSYVVRKTGLECKWMDTRDVLIVNPTSSNQVDPDFGESEKRLDKWFSLNPSKIIIATGFIASTPQNIPTTLKRDGSDFSAAIMGALLRARQVTIWTDVDGVYSADPRKVNEAVILQTLSYQEAWEMSYFGANVLHPRTIIPVMRYNIPIVIRNIFNLSAPGTIICQPPEDDYDLKLTTPVKGFATIDNLALINVEGTGMAGVPGTASDIFGCVKDVGANVIMISQASSEHSVCFAVPEKEVNAVSEALRSRFSEALQAGRLSQIEVIPNCSILAAVGQKMASTPGVSCTLFSALAKANINVRAISQGCSEYNVTVVIKREDSVKALRAVHSRFFLSRTTLAMGIVGPGLIGATLLDQLRDQAAVLKQEFNIDLRVLGITGSKKMLLSDIGIDLSRWRELLNEKGTEADLDKFTQQVHGNHFIPNSVVVDCTADSAIASRYYDWLRKGIHVITPNKKANSGPLDQYLKLRDLQRKSYTHYFYEATVGAGLPIISTLRGLLETGDKILRIEGICSGTLSYLFNNFVGDRSFSEVVTEAKNAGFTEPDPRDDLSGTDVARKVIILARESGLKLDLADLPIRSLVPEPLKGCTSVEEFMEKLPQYDGDLAKERLDAENSGEVLRYVGVVDAVNQKGTVELRRYKKEHPFAQLAGSDNIIAFTTTRYKDHPLIVRGPGAGAQVTAGGIFSDILRLASYLGAPS |
| 6483 | sp|Q8N9L9|ACOT4\_HUMAN | MSATLILEPPGRCCWNEPVRIAVRGLAPEQRVTLRASLRDEKGALFRAHARYCADARGELDLERAPALGGSFAGLEPMGLLWALEPEKPFWRFLKRDVQIPFVVELEVLDGHDPEPGRLLCQAQHERHFLPPGVRRQSVRAGRVRATLFLPPGPGPFPGIIDIFGIGGGLLEYRASLLAGHGFATLALAYYNFEDLPNNMDNISLEYFEEAVCYMLQHPQVKGPGIGLLGISLGADICLSMASFLKNVSATVSINGSGISGNTAINYKHSSIPPLGYDLRRIKVAFSGLVDIVDIRNALVGGYKNPSMIPIEKAQGPILLIVGQDDHNWRSELYAQTVSERLQAHGKEKPQIICYPGTGHYIEPPYFPLCPASLHRLLNKHVIWGGEPRAHSKAQEDAWKQILAFFCKHLGGTQKTAVPKL |
| 6484 | sp|P54645|AAPK1\_RAT | MRRLSSWRKMATAEKQKHDGRVKIGHYILGDTLGVGTFGKVKVGKHELTGHKVAVKILNRQKIRSLDVVGKIRREIQNLKLFRHPHIIKLYQVISTPSDIFMVMEYVSGGELFDYICKNGRLDEKESRRLFQQILSGVDYCHRHMVVHRDLKPENVLLDAHMNAKIADFGLSNMMSDGEFLRTSCGSPNYAAPEVISGRLYAGPEVDIWSSGVILYALLCGTLPFDDDHVPTLFKKICDGIFYTPQYLNPSVISLLKHMLQVDPMKRATIKDIREHEWFKQDLPKYLFPEDPSYSSTMIDDEALKEVCEKFECSEEEVLSCLYNRNHQDPLAVAYHLIIDNRRIMNEAKDFYLATSPPDSFLDDHHLTRPHPERVPFLVAETPRARHTLDELNPQKSKHQGVRKAKWHLGIRSQSRPNDIMAEVCRAIKQLDYEWKVVNPYYLRVRRKNPVTSTFSKMSLQLYQVDSRTYLLDFRSIDDEITEAKSGTATPQRSGSISNYRSCQRSDSDAEAQGKPSEVSLTSSVTSLDSSPVDVAPRPGSHTIEFFEMCANLIKILAQ |
| 6485 | sp|E9Q394|AKP13\_MOUSE | MKLSPQQAPLYGDCVVTVLLAEEDKVEDDAIFYLIFSGSTLYHCTSTRKVSSDTLETIAPGHDCCETVKVLLCASREGLPVFVVAEEDFHFVQDEAYDAAQFLATSAGNQQALNFTRFLDRSGPPSRDVNSLDEKVALAFRHLKLPAEWNVLGTDHTLHDGGPRETLMHFAVRLGLLRLTWFLLQKPGGRGALSIHNKEGATPVSLALERGYHELHQLLTEENAGEPDSWSSLSYEIPYGDCSVRHHRELDIYTLTSESESHREPHGDSCTGHISKLMNIQQQLMKTNLKQMDNLMPLMVTAQDSSCVPSVPETDGLFLPCVPEPSDHQHPPFEETKSTLCCQRSPGRMAESSCDLSSMVEEENVICSHKKNKDVGRKGEEAEPASAMDSGSASHQDSCLQSVPDCGVKGREGLPSCGNRNEVTGTNYSGVATCQQPLSSRSSVLQDAMVTEPDACQHSSGRELPDSSSTDVGAPEKAGELEHSLLTPDATTQNNKPQVGEGTKERLENSDSSTTETTAVQVLSEPMEKADITNHVFATSAVGVNTPAEASPALSSEEIPTEKPGMETQERGCEGGTTSDQSSPVLPAAAIENKVLGGQEPDTSIAGFCKTASPLDLTMPGPSSDGMPEQNSESHARPAQSLSGQALLCSTAEAGTPSAEATHQPSTVTSSGRLEECGSGKASLPESTMVQPSTQELCTTLCPEDPQADTVTSDTVKNTQKSVGVCHLCVSDAKNQGNGLKQDTPLTNVLEDVPRLPSVVSQTEKELAPDQVSPPASSFSLASSPESESVTKDDALSLVPSQKEKGTATPQLHRTTACRDGPDGRDLSDTDKVGDGATDPPPSSAVELRTSMGNTSPVGIGGEQEGSSPTATLEVLSDSLLHNVDKAALVSDFTLPEEGVSVVVPESSTALGQDGKDRAMSCSSVKEDVHSSEMSREDQRTPPSGQEIPGLCEKPMSALCAEEKAQQHTPSACLKTETKDIKEVAPQVSLLTEGGAAKSLVPPRTSLSADSKQKASSTEQSGSSLLPSGLPGASEALHCNQPSALDVVVENTQFQGETNACEVSRSAMEDVTVADASPATAEPRKKDASHCIKDIPISELLNQEKQMTPSLPEAFLDKGVTDLQEVITPEIEPLDCKRETLEGTDLNCATSNSKETPIEKPMQPLARDLPTETGLSVINNNVPQADMKQVAQASIPAEESNATTVSTQAADVPTRADSIEETATRIVEAVIRQVRASNALMAKVETQNPSLSSPETKQLENAYTESACAFLPGETPQIEKTHEDTTGQCGAETEEPEKIILPESAPGKQGKMPDTRTGDEVDLLSRISAASEEEAVGNGAATPKMKQGPGTQAINRESWCAIEPCPEAASLLASKQSSECRSFIDVGLGTECASKEGMLQRVSGSESDLFHSPSDEMDSIIFPKPEEEQLLCDTTGSSSSTDDTASLDRHSSHGSDVSLPQTSKLNRSRNHQSANGFFSPGVEAPESRESESEPAGSGEMEEEEMDSITEVPANCSFLRSSMRSLSPFRRHSWGPGKNAASDAEMNQRSSMRALGHVVRRPPIHRRSFSLEGLTGGGVGNKPSSSLEMSSANSSELRNPFGGEEQRNSLMSLSEEHLEPDQRQHHRMFDQQTCYRSKQQGFNYCTSAISSPLTKSISLMTISHPGLDSSRPFHSTSANLTESITEENCNFLPPSPSKKNFEEKSGTKVSRTFSYIRNKMSSSKKSKEKEKEKDKIKEKEKDSKEKEKDKKTLNGHTFSPIPIVGPISCSQCMKPFTNKDAYTCAGCGAFVHKGCRENLASCAKVKMKQPKGSLQAHDTSSLPTVIMRNKSSQPKERPRSAVLLADEATAAPMFTNRRSQQSVSLSKSVSIQNITGVGNDENMSNTWKFLSHSTDSLNKICKVNESTESLTDEGVGTDMNEGQLMGDFESDSKQLEAESWSRTVDSKFLKQQKKDVVKRQEVIYELMQTELHHIRTLKIMSDVYSRGMMTDLLFEQQMVEKLFPCLDELISIHSQFFQRILERKKESLVDKSEKNFLIKRIGDVLVSQFSGESAERLKKTYGKFCGQHNQSVNYFKDLYTKDKRFQAFVKKKMSSSVVRRLGIPECILLVTQRITKYPVLFQRILQCTKDNEVEQEDLTQSLSLVKDVIGAVDSKVASYEKKVRLGEIYTKTDSKSIMRMKSGQMFAKEDLRRKKLVRDGSVFLKSTTGRLKEVQAVLLTDILVFLQEKDQKYVFASLDHKSTVISLKKLIVREVAHEEKGLFLISMGVKDPEMVEVHASSREERNSWIQIIQDTINSLNRDEDEGIPSENEEEKKLLDTKARELKEQLQQKDQQILLLLEEKEMIFRDMTECSTPLPEDCSPTHSPRVLFRSNTEEALKGGPLMKSAINEVEILQSLVSGSLGGTLGQSISSPVEQEVMAAPISLPRRAETFGGFDCHQMNASKGGEKEEGDDGQDLRRTESDSGLKKGGNGNLVFMLKRNSEQVVQSIVHLHELLSMLQGVVLQQDSYIEDQKLVLTEKVLTRSASRPSSLIEQEKQRSLEKQRQDLANLQKQQAQHLEEKRRREREWEAREQELRDREAKLAEREETVRRRQQDLERDREELQQKKGTYQCDLERLRAAQKQLEREQEQLRRDTERLSQRQMDQNLCQVSNKHGRLMRIPSFLPNSDEFSSPSAPSVTKSGSLDSELSVSPKRNSISRTQKDKGPFHILGSASQTKVPEGQSQAPSSTSTSTRLFGLSKPKEKKEKKKKSKGSRTQPGDGPASEVPAEGEEIFC |
| 6486 | sp|P12390|ACHB2\_RAT | MAGHSNSMALFSFSLLWLCSGVLGTDTEERLVEHLLDPSRYNKLIRPATNGSELVTVQLMVSLAQLISVHEREQIMTTNVWLTQEWEDYRLTWKPEDFDNMKKVRLPSKHIWLPDVVLYNNADGMYEVSFYSNAVVSYDGSIFWLPPAIYKSACKIEVKHFPFDQQNCTMKFRSWTYDRTEIDLVLKSDVASLDDFTPSGEWDIIALPGRRNENPDDSTYVDITYDFIIRRKPLFYTINLIIPCVLITSLAILVFYLPSDCGEKMTLCISVLLALTVFLLLISKIVPPTSLDVPLVGKYLMFTMVLVTFSIVTSVCVLNVHHRSPTTHTMAPWVKVVFLEKLPTLLFLQQPRHRCARQRLRLRRRQREREGAGALFFREGPAADPCTCFVNPASVQGLAGAFRAEPTAAGPGRSVGPCSCGLREAVDGVRFIADHMRSEDDDQSVREDWKYVAMVIDRLFLWIFVFVCVFGTVGMFLQPLFQNYTATTFLHPDHSAPSSK |
| 6487 | sp|Q9NP70|AMBN\_HUMAN | MSASKIPLFKMKDLILILCLLEMSFAVPFFPQQSGTPGMASLSLETMRQLGSLQRLNTLSQYSRYGFGKSFNSLWMHGLLPPHSSLPWMRPREHETQQYEYSLPVHPPPLPSQPSLKPQQPGLKPFLQSAAATTNQATALKEALQPPIHLGHLPLQEGELPLVQQQVAPSDKPPKPELPGVDFADPQGPSLPGMDFPDPQGPSLPGLDFADPQGSTIFQIARLISHGPMPQNKQSPLYPGMLYVPFGANQLNAPARLGIMSSEEVAGGREDPMAYGAMFPGFGGMRPGFEGMPHNPAMGGDFTLEFDSPVAATKGPENEEGGAQGSPMPEANPDNLENPAFLTELEPAPHAGLLALPKDDIPGLPRSPSGKMKGLPSVTPAAADPLMTPELADVYRTYDADMTTSVDFQEEATMDTTMAPNSLQTSMPGNKAQEPEMMHDAWHFQEP |
| 6488 | sp|Q9JI91|ACTN2\_MOUSE | MNQIEPGVQYNYVYDEDEYMIQEEEWDRDLLLDPAWEKQQRKTFTAWCNSHLRKAGTQIENIEEDFRNGLKLMLLLEVISGERLPKPDRGKMRFHKIANVNKALDYIASKGVKLVSIGAEEIVDGNVKMTLGMIWTIILRFAIQDISVEETSAKEGLLLWCQRKTAPYRNVNIQNFHTSWKDGLGLCALIHRHRPDLIDYSKLNKDDPIGNINLAMEIAEKHLDIPKMLDAEDIVNTPKPDERAIMTYVSCFYHAFAGAEQAETAANRICKVLAVNQENERLMEEYERLASELLEWIRRTIPWLENRTPEKTMQAMQKKLEDFRDYRRKHKPPKVQEKCQLEINFNTLQTKLRISNRPAFMPSEGKMVSDIAGAWQRLEQAEKGYEEWLLNEIRRLERLEHLAEKFRQKASTHETWAYGKEQILLQKDYESASLTEVRALLRKHEAFESDLAAHQDRVEQIAAIAQELNELDYHDAVNVNDRCQKICDQWDRLGTLTQKRREALERTEKLLETIDQLHLEFAKRAAPFNNWMEGAMEDLQDMFIVHSIEEIQSLITAHEQFKATLPEADGERQSILAIQNEVEKVIQSYSIRISSSNPYSTVTMDELRNKWDKVKQLVPVRDQSLQEELARQHANERLRRQFAAQANAIGPWIQNKMEEIARSSIQITGALEDQMNQLKQYEHNIINYKNNIDKLEGDHQLIQEALVFDNKHTNYTMEHIRVGWELLLTTIARTINEVETQILTRDAKGITQEQMNEFRASFNHFDRRKNGLMDHEDFRACLISMGYDLGEAEFARIMTLVDPNGQGTVTFQSFIDFMTRETADTDTAEQVIASFRILASDKPYILAEELRRELPPDQAQYCIKRMPPYSGPGSVPGALDYTAFSSALYGESDL |
| 6489 | sp|Q9UKV5|AMFR\_HUMAN | MPLLFLERFPWPSLRTYTGLSGLALLGTIISAYRALSQPEAGPGEPDQLTASLQPEPPAPARPSAGGPRARDVAQYLLSDSLFVWVLVNTACCVLMLVAKLIQCIVFGPLRVSERQHLKDKFWNFIFYKFIFIFGVLNVQTVEEVVMWCLWFAGLVFLHLMVQLCKDRFEYLSFSPTTPMSSHGRVLSLLVAMLLSCCGLAAVCSITGYTHGMHTLAFMAAESLLVTVRTAHVILRYVIHLWDLNHEGTWEGKGTYVYYTDFVMELTLLSLDLMHHIHMLLFGNIWLSMASLVIFMQLRYLFHEVQRRIRRHKNYLRVVGNMEARFAVATPEELAVNNDDCAICWDSMQAARKLPCGHLFHNSCLRSWLEQDTSCPTCRMSLNIADNNRVREEHQGENLDENLVPVAAAEGRPRLNQHNHFFHFDGSRIASWLPSFSVEVMHTTNILGITQASNSQLNAMAHQIQEMFPQVPYHLVLQDLQLTRSVEITTDNILEGRIQVPFPTQRSDSIRPALNSPVERPSSDQEEGETSAQTERVPLDLSPRLEETLDFGEVEVEPSEVEDFEARGSRFSKSADERQRMLVQRKDELLQQARKRFLNKSSEDDAASESFLPSEGASSDPVTLRRRMLAAAAERRLQKQQTS |
| 6490 | sp|Q99LR1|ABD12\_MOUSE | MRKRTEPVTLEHERCAASGSSSSGSAAAALDADCSLKQNLRLAGKGTAEPHSASDAGMKRALGRRKSLWFRLRKILLCVLGFYIAIPFLVKLCPGIQAKLIFLNFVRVPYFIDLKKPQDQGLNHTCNYYLQPEDDVTIGVWHTIPSVWWKNAQGKDQMWYEDALASNHAIILYLHGNAGTRGGDHRVELYKVLSSLGYHVVTFDYRGWGDSVGTPSERGMTYDALHVFDWIKARSGDNPVYIWGHSLGTGVATNLVRRLCERETPPDALILESPFTNIREEAKSHPFSVIYRYFPGFDWFFLDPITSSGIKFANDENMKHISCPLLILHAEDDPVVPFHLGRKLYNIAAPSRSFRDFKVQFIPFHSDLGYRHKYIYKSPELPRILREFLGKSEPERQH |
| 6491 | sp|Q01314|AKT1\_BOVIN | MNDVAIVKEGWLHKRGEYIKTWRPRYFLLKNDGTFIGYKERPQDLEQRESPLNNFSVAQCQLMKTERPRPNTFIIRCLQWTTVIERTFHVETPEEREEWTTAIQTVADGLKRQEEETMDFRSGSPGENSGAEEMEVSLAKPKHRVTMNDFEYLKLLGKGTFGKVILVKEKATGRYYAMKILKKEVIVAKDEVAHTLTENRVLQNSRHPFLTALKYSFQTHDRLCFVMEYANGGELFFHLSRERVFSEDRARFYGAEIVSALDYLHSEKEVVYRDLKLENLMLDKDGHIKITDFGLCKEGIKDGATMKTFCGTPEYLAPEVLEDNDYGRAVDWWGLGVVMYEMMCGRLPFYNQDHEKLFELILMEEIRFPRTLSPEAKSLLSGLLKKDPKQRLGGGSEDAKEIMQHRFFASIVWQDVYEKKLSPPFKPQVTSETDTRYFDEEFTAQMITITPPDQDDSMEGVDSERRPHFPQFSYSASATA |
| 6492 | sp|Q9NZN5|ARHGC\_HUMAN | MSGTQSTITDRFPLKKPIRHGSILNRESPTDKKQKVERIASHDFDPTDSSSKKTKSSSEESRSEIYGLVQRCVIIQKDDNGFGLTVSGDNPVFVQSVKEDGAAMRAGVQTGDRIIKVNGTLVTHSNHLEVVKLIKSGSYVALTVQGRPPGSPQIPLADSEVEPSVIGHMSPIMTSPHSPGASGNMERITSPVLMGEENNVVHNQKVEILRKMLQKEQERLQLLQEDYNRTPAQRLLKEIQEAKKHIPQLQEQLSKATGSAQDGAVVTPSRPLGDTLTVSEAETDPGDVLGRTDCSSGDASRPSSDNADSPKSGPKERIYLEENPEKSETIQDTDTQSLVGSPSTRIAPHIIGAEDDDFGTEHEQINGQCSCFQSIELLKSRPAHLAVFLHHVVSQFDPATLLCYLYSDLYKHTNSKETRRIFLEFHQFFLDRSAHLKVSVPDEMSADLEKRRPELIPEDLHRHYIQTMQERVHPEVQRHLEDFRQKRSMGLTLAESELTKLDAERDKDRLTLEKERTCAEQIVAKIEEVLMTAQAVEEDKSSTMQYVILMYMKHLGVKVKEPRNLEHKRGRIGFLPKIKQSMKKDKEGEEKGKRRGFPSILGPPRRPSRHDNSAIGRAMELQKARHPKHLSTPSSVSPEPQDSAKLRQSGLANEGTDAGYLPANSMSSVASGASFSQEGGKENDTGSKQVGETSAPGDTLDGTPRTLNTVFDFPPPPLDQVQEEECEVERVTEHGTPKPFRKFDSVAFGESQSEDEQFENDLETDPPNWQQLVSREVLLGLKPCEIKRQEVINELFYTERAHVRTLKVLDQVFYQRVSREGILSPSELRKIFSNLEDILQLHIGLNEQMKAVRKRNETSVIDQIGEDLLTWFSGPGEEKLKHAAATFCSNQPFALEMIKSRQKKDSRFQTFVQDAESNPLCRRLQLKDIIPTQMQRLTKYPLLLDNIAKYTEWPTEREKVKKAADHCRQILNYVNQAVKEAENKQRLEDYQRRLDTSSLKLSEYPNVEELRNLDLTKRKMIHEGPLVWKVNRDKTIDLYTLLLEDILVLLQKQDDRLVLRCHSKILASTADSKHTFSPVIKLSTVLVRQVATDNKALFVISMSDNGAQIYELVAQTVSEKTVWQDLICRMAASVKEQSTKPIPLPQSTPGEGDNDEEDPSKLKEEQHGISVTGLQSPDRDLGLESTLISSKPQSHSLSTSGKSEVRDLFVAERQFAKEQHTDGTLKEVGEDYQIAIPDSHLPVSEERWALDALRNLGLLKQLLVQQLGLTEKSVQEDWQHFPRYRTASQGPQTDSVIQNSENIKAYHSGEGHMPFRTGTGDIATCYSPRTSTESFAPRDSVGLAPQDSQASNILVMDHMIMTPEMPTMEPEGGLDDSGEHFFDAREAHSDENPSEGDGAVNKEEKDVNLRISGNYLILDGYDPVQESSTDEEVASSLTLQPMTGIPAVESTHQQQHSPQNTHSDGAISPFTPEFLVQQRWGAMEYSCFEIQSPSSCADSQSQIMEYIHKIEADLEHLKKVEESYTILCQRLAGSALTDKHSDKS |
| 6493 | sp|O08691|ARGI2\_MOUSE | MFLRSSASRLLHGQIPCVLTRSVHSVAIVGAPFSRGQKKLGVEYGPAAIREAGLLKRLSRLGCHLKDFGDLSFTNVPQDDPYNNLVVYPRSVGLANQELAEVVSRAVSGGYSCVTMGGDHSLAIGTIIGHARHRPDLCVIWVDAHADINTPLTTVSGNIHGQPLSFLIKELQDKVPQLPGFSWIKPCLSPPNIVYIGLRDVEPPEHFILKNYDIQYFSMREIDRLGIQKVMEQTFDRLIGKRQRPIHLSFDIDAFDPKLAPATGTPVVGGLTYREGVYITEEIHNTGLLSALDLVEVNPHLATSEEEAKATARLAVDVIASSFGQTREGGHIVYDHLPTPSSPHESENEECVRI |
| 6494 | sp|Q94JM3|ARFB\_ARATH | MASSEVSMKGNRGGDNFSSSGFSDPKETRNVSVAGEGQKSNSTRSAAAERALDPEAALYRELWHACAGPLVTVPRQDDRVFYFPQGHIEQVEASTNQAAEQQMPLYDLPSKLLCRVINVDLKAEADTDEVYAQITLLPEANQDENAIEKEAPLPPPPRFQVHSFCKTLTASDTSTHGGFSVLRRHADECLPPLDMSRQPPTQELVAKDLHANEWRFRHIFRGQPRRHLLQSGWSVFVSSKRLVAGDAFIFLRGENGELRVGVRRAMRQQGNVPSSVISSHSMHLGVLATAWHAISTGTMFTVYYKPRTSPSEFIVPFDQYMESVKNNYSIGMRFKMRFEGEEAPEQRFTGTIVGIEESDPTRWPKSKWRSLKVRWDETSSIPRPDRVSPWKVEPALAPPALSPVPMPRPKRPRSNIAPSSPDSSMLTREGTTKANMDPLPASGLSRVLQGQEYSTLRTKHTESVECDAPENSVVWQSSADDDKVDVVSGSRRYGSENWMSSARHEPTYTDLLSGFGTNIDPSHGQRIPFYDHSSSPSMPAKRILSDSEGKFDYLANQWQMIHSGLSLKLHESPKVPAATDASLQGRCNVKYSEYPVLNGLSTENAGGNWPIRPRALNYYEEVVNAQAQAQAREQVTKQPFTIQEETAKSREGNCRLFGIPLTNNMNGTDSTMSQRNNLNDAAGLTQIASPKVQDLSDQSKGSKSTNDHREQGRPFQTNNPHPKDAQTKTNSSRSCTKVHKQGIALGRSVDLSKFQNYEELVAELDRLFEFNGELMAPKKDWLIVYTDEENDMMLVGDDPWQEFCCMVRKIFIYTKEEVRKMNPGTLSCRSEEEAVVGEGSDAKDAKSASNPSLSSAGNS |
| 6495 | sp|F8VPQ2|ARI4A\_MOUSE | MKAADEPAYLTVGTDVSAKYRGAFCEAKIKTVKRLVKVKVLLKQDNTTQLVQDDQVKGPLRVGAIVETRTSDGSIQEAIISKLTDASWYTVVFDDGDERTLRRTSLCLKGERHFAESETLDQLPLTNPEHFGTPVIAKKTNRGRRSSLPITEDEKEEESSEEEDEDKRRLNDELLGKVVSVASTAESTGWYPALVVSPSCNDDVTVKKDQCLVRSFIDSKFYSIARKDIKELDILTLPESELCARPGLRRASVFLKGRIVPDNWKMDISEILESSSSDDEECPAEEHEEEKEKEAKKEEEELPEEELDPEERDNFLQQLYKFMEDRGTPINKPPVLGYKDLNLFKLFRLVYHQGGCGNIDSGAVWKQIYMDLGIPILNSAASYNVKTAYRKYLYGFEEYCRSANIQFRTIHHHEPKVKEEKKDFEDSMDEALKEAPEMPLLDVKSEPEENTDSNSESDREDTELKSPRGRRKIVRDANCIKKEIEEEKIEDKFLRDDLENKDAGDDDDDGDPAAKREHELLFGRKSTPKNKEKKIKKPEDSERDSDEEEEKSQEREETESRCDSEGEDEEDDTEPCLTGTKVKVKYGRGKTQKIYEASIKSTEMDDGEILYLVHYYGWNVRYDEWVKADRIIWPLDKGGPKKKQKKKVKNKEDSEKDEKRDEERQKSKRGRPPLKSTFSPNMPYSLSKTSNSEGKSDSCSSDSEADDQLEKSSGGEDLSPDVKEELEKNENAHDDKLDEENPKIVHISKENDRTQAQPSDTLTVEAGDSDQIVHIFGDKVDQVEEFKKQVEKSPKGKGRRSKTKDLSLELIKISPFGQEEAGSEAHGDVHSLEFSSLECKNFSSTEDDIDPYEKEKKLKRKILGQQSPEKKLRLDNGMEMTTGVSQERSDDGAGAEGMKGAHVEQHFETEGEGMPSLTAEPDQGLQELTSEKSDSPAEEEPVHTPLKEEEDAMPLIGPETLVCHEVDLDDLDEKDKTSIEDVVVEGSESNSLASVPPALPPVAQHNFSVASPLTLSQDESRSIKSESDITIEVDSIAEESQEGLCERESANGFEASVASGACSIIAHERESREKGQKRPSDGNSGLIAKKQKRTPKRTSAAAKTEKNGAGQSSDSEDLPAMDSSSNCTPVKRLTLPKSQKLPRSPARTSPHIKDAEKEKHREKHPNSSPRTYKWSFQLNELDNMNSTERISFLQEKLQEIRKYYMSLKSEVATIDRRRKRLKKKDREVSHAGASMSSASSDTGMSPSSSSPPQNVLAVECR |
| 6496 | sp|P27695|APEX1\_HUMAN | MPKRGKKGAVAEDGDELRTEPEAKKSKTAAKKNDKEAAGEGPALYEDPPDQKTSPSGKPATLKICSWNVDGLRAWIKKKGLDWVKEEAPDILCLQETKCSENKLPAELQELPGLSHQYWSAPSDKEGYSGVGLLSRQCPLKVSYGIGDEEHDQEGRVIVAEFDSFVLVTAYVPNAGRGLVRLEYRQRWDEAFRKFLKGLASRKPLVLCGDLNVAHEEIDLRNPKGNKKNAGFTPQERQGFGELLQAVPLADSFRHLYPNTPYAYTFWTYMMNARSKNVGWRLDYFLLSHSLLPALCDSKIRSKALGSDHCPITLYLAL |
| 6497 | sp|P15514|AREG\_HUMAN | MRAPLLPPAPVVLSLLILGSGHYAAGLDLNDTYSGKREPFSGDHSADGFEVTSRSEMSSGSEISPVSEMPSSSEPSSGADYDYSEEYDNEPQIPGYIVDDSVRVEQVVKPPQNKTESENTSDKPKRKKKGGKNGKNRRNRKKKNPCNAEFQNFCIHGECKYIEHLEAVTCKCQQEYFGERCGEKSMKTHSMIDSSLSKIALAAIAAFMSAVILTAVAVITVQLRRQYVRKYEGEAEERKKLRQENGNVHAIA |
| 6498 | sp|P32454|APE2\_YEAST | MPIVRWLLLKSAVRGSSLIGKAHPCLRSIAAHPRYLSNVYSPPAGVSRSLRINVMWKQSKLTPPRFVKIMNRRPLFTETSHACAKCQKTSQLLNKTPNREILPDNVVPLHYDLTVEPDFKTFKFEGSVKIELKINNPAIDTVTLNTVDTDIHSAKIGDVTSSEIISEEEQQVTTFAFPKGTMSSFKGNAFLDIKFTGILNDNMAGFYRAKYEDKLTGETKYMATTQMEPTDARRAFPCFDEPNLKASFAITLVSDPSLTHLSNMDVKNEYVKDGKKVTLFNTTPKMSTYLVAFIVAELKYVESKNFRIPVRVYATPGNEKHGQFAADLTAKTLAFFEKTFGIQYPLPKMDNVAVHEFSAGAMENWGLVTYRVVDLLLDKDNSTLDRIQRVAEVVQHELAHQWFGNLVTMDWWEGLWLNEGFATWMSWYSCNEFQPEWKVWEQYVTDTLQHALSLDSLRSSHPIEVPVKKADEINQIFDAISYSKGASLLRMISKWLGEETFIKGVSQYLNKFKYGNAKTEDLWDALADASGKDVRSVMNIWTKKVGFPVISVSEDGNGKITFRQNRYLSTADVKPDEDKTIYPVFLALKTKNGVDSSVVLSERSKTIELEDPTFFKVNSEQSGIYITSYTDERWAKLGQQADLLSVEDRVGLVADVKTLSASGYTSTTNFLNLVSKWNNEKSFVVWDQIINSISSMKSTWLFEPKETQDALDNFTKQLISGMTHHLGWEFKSSDSFSTQRLKVTMFGAACAARDADVEKAALKMFTDYCSGNKEAIPALIKPIVFNTVARVGGAENYEKVYKIYLDPISNDEKLAALRSLGRFKEPKLLERTLGYLFDGTVLNQDIYIPMQGMRAHQEGVEALWNWVKKNWDELVKRLPPGLSMLGSVVTLGTSGFTSMQKIDEIKKFFATKSTKGFDQSLAQSLDTITSKAQWVNRDRDVVNKYLKENGYY |
| 6499 | sp|Q09790|APS1\_SCHPO | MLENNGSVILMEPDHLRTAVNRSMTSREGRTKNRFNPITGARLAAGVVALSADKRKVLLVSSAKKHPSWVVPKGGWEADESVQQAALREGWEEGGLVGHITRSLGSFKDKRPTDTIDRRKKYLKQLMSKSSGNDVSTNTELGAEAEKLLLPPRAECEFFEVIVERLEDNYPEMRKRRRKWMSYQEAKEALTSRKDILAALEKSSIIKEEN |
| 6500 | sp|P35585|AP1M1\_MOUSE | MSASAVYVLDLKGKVLICRNYRGDVDMSEVEHFMPILMEKEEEGMLSPILAHGGVRFMWIKHNNLYLVATSKKNACVSLVFSFLYKVVQVFSEYFKELEEESIRDNFVIIYELLDELMDFGYPQTTDSKILQEYITQEGHKLETGAPRPPATVTNAVSWRSEGIKYRKNEVFLDVIEAVNLLVSANGNVLRSEIVGSIKMRVFLSGMPELRLGLNDKVLFDNTGRGKSKSVELEDVKFHQCVRLSRFENDRTISFIPPDGEFELMSYRLNTHVKPLIWIESVIEKHSHSRIEYMVKAKSQFKRRSTANNVEIHIPVPNDADSPKFKTTVGSVKWVPENSEIVWSVKSFPGGKEYLMRAHFGLPSVEAEDKEGKPPISVKFEIPYFTTSGIQVRYLKIIEKSGYQALPWVRYITQNGDYQLRTQ |
| 6501 | sp|Q8NAG6|ANKL1\_HUMAN | MCSEARLARRLRDALREEEPWAVEELLRCGADPNLVLEDGAAAVHLAAGARHPRGLRCLGALLRQGGDPNARSVEALTPLHVAAAWGCRRGLELLLSQGADPALRDQDGLRPLDLALQQGHLECARVLQDLDTRTRTRTRIGAETQEPEPAPGTPGLSGPTDETLDSIALQKQPCRGDNRDIGLEADPGPPSLPVPLETVDKHGSSASPPGHWDYSSDASFVTAVEVSGAEDPASDTPPWAGSLPPTRQGLLHVVHANQRVPRSQGTEAELNARLQALTLTPPNAAGFQSSPSSMPLLDRSPAHSPPRTPTPGASDCHCLWEHQTSIDSDMATLWLTEDEASSTGGREPVGPCRHLPVSTVSDLELLKGLRALGENPHPITPFTRQLYHQQLEEAQIAPGPEFSGHSLELAAALRTGCIPDVQADEDALAQQFEQPDPARRWREGVVKSSFTYLLLDPRETQDLPARAFSLTPAERLQTFIRAIFYVGKGTRARPYVHLWEALGHHGRSRKQPHQACPKVRQILDIWASGCGVVSLHCFQHVVAVEAYTREACIVEALGIQTLTNQKQGHCYGVVAGWPPARRRRLGVHLLHRALLVFLAEGERQLHPQDIQARG |
| 6502 | sp|P97449|AMPN\_MOUSE | MAKGFYISKTLGILGILLGVAAVCTIIALSVVYAQEKNRNAENSATAPTLPGSTSATTATTTPAVDESKPWNQYRLPKTLIPDSYRVILRPYLTPNNQGLYIFQGNSTVRFTCNQTTDVIIIHSKKLNYTLKGNHRVVLRTLDGTPAPNIDKTELVERTEYLVVHLQGSLVEGRQYEMDSQFQGELADDLAGFYRSEYMEGDVKKVVATTQMQAADARKSFPCFDEPAMKAMFNITLIYPNNLIALSNMLPKESKPYPEDPSCTMTEFHSTPKMSTYLLAYIVSEFKNISSVSANGVQIGIWARPSAIDEGQGDYALNVTGPILNFFAQHYNTSYPLPKSDQIALPDFNAGAMENWGLVTYRESSLVFDSQSSSISNKERVVTVIAHELAHQWFGNLVTVAWWNDLWLNEGFASYVEYLGADYAEPTWNLKDLMVLNDVYRVMAVDALASSHPLSSPADEIKTPDQIMELFDSITYSKGASVIRMLSSFLTEDLFKKGLSSYLHTYQYSNTVYLDLWEHLQKAVNQQTAVQPPATVRTIMDRWILQMGFPVITVNTNTGEISQKHFLLDSKSNVTRPSEFNYIWIAPIPFLKSGQEDHYWLDVEKNQSAKFQTSSNEWILLNINVTGYYLVNYDENNWKKLQNQLQTDLSVIPVINRAQIIHDSFNLASAKMIPITLALDNTLFLVKEAEYMPWQAALSSLNYFTLMFDRSEVYGPMKRYLKKQVTPLFFYFQNRTNNWVNRPPTLMEQYNEINAISTACSSGLKECRDLVVELYSQWMKNPNNNTIHPNLRSTVYCNAIAFGGEEEWNFAWEQFRNATLVNEADKLRSALACSKDVWILNRYLSYTLNPDYIRKQDTTSTIISIASNVAGHPLVWDFVRSNWKKLFENYGGGSFSFANLIQGVTRRFSSEFELQQLEQFKADNSATGFGTGTRALEQALEKTRANIDWVKENKDAVFKWFTENSS |
| 6503 | sp|P01019|ANGT\_HUMAN | MRKRAPQSEMAPAGVSLRATILCLLAWAGLAAGDRVYIHPFHLVIHNESTCEQLAKANAGKPKDPTFIPAPIQAKTSPVDEKALQDQLVLVAAKLDTEDKLRAAMVGMLANFLGFRIYGMHSELWGVVHGATVLSPTAVFGTLASLYLGALDHTADRLQAILGVPWKDKNCTSRLDAHKVLSALQAVQGLLVAQGRADSQAQLLLSTVVGVFTAPGLHLKQPFVQGLALYTPVVLPRSLDFTELDVAAEKIDRFMQAVTGWKTGCSLMGASVDSTLAFNTYVHFQGKMKGFSLLAEPQEFWVDNSTSVSVPMLSGMGTFQHWSDIQDNFSVTQVPFTESACLLLIQPHYASDLDKVEGLTFQQNSLNWMKKLSPRTIHLTMPQLVLQGSYDLQDLLAQAELPAILHTELNLQKLSNDRIRVGEVLNSIFFELEADEREPTESTQQLNKPEVLEVTLNRPFLFAVYDQSATALHFLGRVANPLSTA |
| 6504 | sp|P15497|APOA1\_BOVIN | MKAVVLTLAVLFLTGSQARHFWQQDDPQSSWDRVKDFATVYVEAIKDSGRDYVAQFEASALGKQLNLKLLDNWDTLASTLSKVREQLGPVTQEFWDNLEKETASLRQEMHKDLEEVKQKVQPYLDEFQKKWHEEVEIYRQKVAPLGEEFREGARQKVQELQDKLSPLAQELRDRARAHVETLRQQLAPYSDDLRQRLTARLEALKEGGGSLAEYHAKASEQLKALGEKAKPVLEDLRQGLLPVLESLKVSILAAIDEASKKLNAQ |
| 6505 | sp|Q9BQD7|ANKMT\_HUMAN | MEQDDPVEALTELRERRLGALELLQAAAGSGLAAYAVWALLLQPGFRRVPLRLQVPYVGASARQVEHVLSLLRGRPGKTVDLGSGDGRIVLAAHRCGLRPAVGYELNPWLVALARLHAWRAGCAGSVCYRRKDLWKVSLRDCRNVSVFLAPSVLPLLEDKLRTELPAGARVVSGRFPLPTWQPVTAVGEGLDRVWAYDVPEGGQAGEAASSRIPIQAAPGPSSAPIPGGLISQAS |
| 6506 | sp|Q9KL03|ATDA\_VIBCH | MNSQLTLRALERGDLRFIHNLNNNRNIMSYWFEEPYESFDELEELYNKHIHDNAERRFVVEDAQKNLIGLVELIEINYIHRSAEFQIIIAPEHQGKGFARTLINRALDYSFTILNLHKIYLHVAVENPKAVHLYEECGFVEEGHLVEEFFINGRYQDVKRMYILQSKYLNRSE |
| 6507 | sp|Q9X5C9|AROE\_CORGL | MNDSILLGLIGQGLDLSRTPAMHEAEGLAQGRATVYRRIDTLGSRASGQDLKTLLDAALYLGFNGLNITHPYKQAVLPLLDEVSEQATQLGAVNTVVIDATGHTTGHNTDVSGFGRGMEEGLPNAKLDSVVQVGAGGVGNAVAYALVTHGVQKLQVADLDTSRAQALADVINNAVGREAVVGVDARGIEDVIAAADGVVNATPMGMPAHPGTAFDVSCLTKDHWVGDVVYMPIETELLKAARALGCETLDGTRMAIHQAVDAFRLFTGLEPDVSRMRETFLSL |
| 6508 | sp|P23634|AT2B4\_HUMAN | MTNPSDRVLPANSMAESREGDFGCTVMELRKLMELRSRDALTQINVHYGGVQNLCSRLKTSPVEGLSGNPADLEKRRQVFGHNVIPPKKPKTFLELVWEALQDVTLIILEIAAIISLVLSFYRPAGEENELCGQVATTPEDENEAQAGWIEGAAILFSVIIVVLVTAFNDWSKEKQFRGLQCRIEQEQKFSIIRNGQLIQLPVAEIVVGDIAQVKYGDLLPADGILIQGNDLKIDESSLTGESDHVKKSLDKDPMLLSGTHVMEGSGRMVVTAVGVNSQTGIILTLLGVNEDDEGEKKKKGKKQGVPENRNKAKTQDGVALEIQPLNSQEGIDNEEKDKKAVKVPKKEKSVLQGKLTRLAVQIGKAGLLMSALTVFILILYFVIDNFVINRRPWLPECTPIYIQYFVKFFIIGITVLVVAVPEGLPLAVTISLAYSVKKMMKDNNLVRHLDACETMGNATAICSDKTGTLTMNRMTVVQAYIGGIHYRQIPSPDVFLPKVLDLIVNGISINSAYTSKILPPEKEGGLPRQVGNKTECALLGFVTDLKQDYQAVRNEVPEEKLYKVYTFNSVRKSMSTVIRNPNGGFRMYSKGASEIILRKCNRILDRKGEAVPFKNKDRDDMVRTVIEPMACDGLRTICIAYRDFDDTEPSWDNENEILTELTCIAVVGIEDPVRPEVPDAIAKCKQAGITVRMVTGDNINTARAIATKCGILTPGDDFLCLEGKEFNRLIRNEKGEVEQEKLDKIWPKLRVLARSSPTDKHTLVKGIIDSTVGEHRQVVAVTGDGTNDGPALKKADVGFAMGIAGTDVAKEASDIILTDDNFTSIVKAVMWGRNVYDSISKFLQFQLTVNVVAVIVAFTGACITQDSPLKAVQMLWVNLIMDTFASLALATEPPTESLLKRRPYGRNKPLISRTMMKNILGHAFYQLIVIFILVFAGEKFFDIDSGRKAPLHSPPSQHYTIVFNTFVLMQLFNEINSRKIHGEKNVFSGIYRNIIFCSVVLGTFICQIFIVEFGGKPFSCTSLSLSQWLWCLFIGIGELLWGQFISAIPTRSLKFLKEAGHGTTKEEITKDAEGLDEIDHAEMELRRGQILWFRGLNRIQTQIDVINTFQTGASFKGVLRRQNMGQHLDVKLVPSSSYIKVVKAFHSSLHESIQKPYNQKSIHSFMTHPEFAIEEELPRTPLLDEEEEENPDKASKFGTRVLLLDGEVTPYANTNNNAVDCNQVQLPQSDSSLQSLETSV |
| 6509 | sp|P38316|ATG12\_YEAST | MSRILESENETESDESSIISTNNGTAMERSRNNQELRSSPHTVQNRLELFSRRLSQLGLASDISVDQQVEDSSSGTYEQEETIKTNAQTSKQKSHKDEKNIQKIQIKFQPIGSIGQLKPSVCKISMSQSFAMVILFLKRRLKMDHVYCYINNSFAPSPQQNIGELWMQFKTNDELIVSYCASVAFG |
| 6510 | sp|Q6PL18|ATAD2\_HUMAN | MVVLRSSLELHNHSAASATGSLDLSSDFLSLEHIGRRRLRSAGAAQKKPAATTAKAGDGSSVKEVETYHRTRALRSLRKDAQNSSDSSFEKNVEITEQLANGRHFTRQLARQQADKKKEEHREDKVIPVTRSLRARNIVQSTEHLHEDNGDVEVRRSCRIRSRYSGVNQSMLFDKLITNTAEAVLQKMDDMKKMRRQRMRELEDLGVFNETEESNLNMYTRGKQKDIQRTDEETTDNQEGSVESSEEGEDQEHEDDGEDEDDEDDDDDDDDDDDDDDEDDEDEEDGEEENQKRYYLRQRKATVYYQAPLEKPRHQRKPNIFYSGPASPARPRYRLSSAGPRSPYCKRMNRRRHAIHSSDSTSSSSSEDEQHFERRRKRSRNRAINRCLPLNFRKDELKGIYKDRMKIGASLADVDPMQLDSSVRFDSVGGLSNHIAALKEMVVFPLLYPEVFEKFKIQPPRGCLFYGPPGTGKTLVARALANECSQGDKRVAFFMRKGADCLSKWVGESERQLRLLFDQAYQMRPSIIFFDEIDGLAPVRSSRQDQIHSSIVSTLLALMDGLDSRGEIVVIGATNRLDSIDPALRRPGRFDREFLFSLPDKEARKEILKIHTRDWNPKPLDTFLEELAENCVGYCGADIKSICAEAALCALRRRYPQIYTTSEKLQLDLSSINISAKDFEVAMQKMIPASQRAVTSPGQALSTVVKPLLQNTVDKILEALQRVFPHAEFRTNKTLDSDISCPLLESDLAYSDDDVPSVYENGLSQKSSHKAKDNFNFLHLNRNACYQPMSFRPRILIVGEPGFGQGSHLAPAVIHALEKFTVYTLDIPVLFGVSTTSPEETCAQVIREAKRTAPSIVYVPHIHVWWEIVGPTLKATFTTLLQNIPSFAPVLLLATSDKPHSALPEEVQELFIRDYGEIFNVQLPDKEERTKFFEDLILKQAAKPPISKKKAVLQALEVLPVAPPPEPRSLTAEEVKRLEEQEEDTFRELRIFLRNVTHRLAIDKRFRVFTKPVDPDEVPDYVTVIKQPMDLSSVISKIDLHKYLTVKDYLRDIDLICSNALEYNPDRDPGDRLIRHRACALRDTAYAIIKEELDEDFEQLCEEIQESRKKRGCSSSKYAPSYYHVMPKQNSTLVGDKRSDPEQNEKLKTPSTPVACSTPAQLKRKIRKKSNWYLGTIKKRRKISQAKDDSQNAIDHKIESDTEETQDTSVDHNETGNTGESSVEENEKQQNASESKLELRNNSNTCNIENELEDSRKTTACTELRDKIACNGDASSSQIIHISDENEGKEMCVLRMTRARRSQVEQQQLITVEKALAILSQPTPSLVVDHERLKNLLKTVVKKSQNYNIFQLENLYAVISQCIYRHRKDHDKTSLIQKMEQEVENFSCSR |
| 6511 | sp|Q5SQI0|ATAT\_HUMAN | MEFPFDVDALFPERITVLDQHLRPPARRPGTTTPARVDLQQQIMTIIDELGKASAKAQNLSAPITSASRMQSNRHVVYILKDSSARPAGKGAIIGFIKVGYKKLFVLDDREAHNEVEPLCILDFYIHESVQRHGHGRELFQYMLQKERVEPHQLAIDRPSQKLLKFLNKHYNLETTVPQVNNFVIFEGFFAHQHRPPAPSLRATRHSRAAAVDPTPAAPARKLPPKRAEGDIKPYSSSDREFLKVAVEPPWPLNRAPRRATPPAHPPPRSSSLGNSPERGPLRPFVPEQELLRSLRLCPPHPTARLLLAADPGGSPAQRRRTRGTPPGLVAQSCCYSRHGGVNSSSPNTGNQDSKQGEQETKNRSASEEQALSQDGSGEKPMHTAPPQAPAPPAQSWTVGGDILNARFIRNLQERRSTRPW |
| 6512 | sp|Q99941|ATF6B\_HUMAN | MAELMLLSEIADPTRFFTDNLLSPEDWGLQNSTLYSGLDEVAEEQTQLFRCPEQDVPFDGSSLDVGMDVSPSEPPWELLPIFPDLQVKSEPSSPCSSSSLSSESSRLSTEPSSEALGVGEVLHVKTESLAPPLCLLGDDPTSSFETVQINVIPTSDDSSDVQTKIEPVSPCSSVNSEASLLSADSSSQAFIGEEVLEVKTESLSPSGCLLWDVPAPSLGAVQISMGPSLDGSSGKALPTRKPPLQPKPVVLTTVPMPSRAVPPSTTVLLQSLVQPPPVSPVVLIQGAIRVQPEGPAPSLPRPERKSIVPAPMPGNSCPPEVDAKLLKRQQRMIKNRESACQSRRKKKEYLQGLEARLQAVLADNQQLRRENAALRRRLEALLAENSELKLGSGNRKVVCIMVFLLFIAFNFGPVSISEPPSAPISPRMNKGEPQPRRHLLGFSEQEPVQGVEPLQGSSQGPKEPQPSPTDQPSFSNLTAFPGGAKELLLRDLDQLFLSSDCRHFNRTESLRLADELSGWVQRHQRGRRKIPQRAQERQKSQPRKKSPPVKAVPIQPPGPPERDSVGQLQLYRHPDRSQPAFLDAIDRREDTFYVVSFRRDHLLLPAISHNKTSRPKMSLVMPAMAPNETLSGRGAPGDYEEMMQIECEVMDTRVIHIKTSTVPPSLRKQPSPTPGNATGGPLPVSAASQAHQASHQPLYLNHP |
| 6513 | sp|P38862|ATG7\_YEAST | MSSERVLSYAPAFKSFLDTSFFQELSRLKLDVLKLDSTCQPLTVNLDLHNIPKSADQVPLFLTNRSFEKHNNKRTNEVPLQGSIFNFNVLDEFKNLDKQLFLHQRALECWEDGIKDINKCVSFVIISFADLKKYRFYYWLGVPCFQRPSSTVLHVRPEPSLKGLFSKCQKWFDVNYSKWVCILDADDEIVNYDKCIIRKTKVLAIRDTSTMENVPSALTKNFLSVLQYDVPDLIDFKLLIIRQNEGSFALNATFASIDPQSSSSNPDMKVSGWERNVQGKLAPRVVDLSSLLDPLKIADQSVDLNLKLMKWRILPDLNLDIIKNTKVLLLGAGTLGCYVSRALIAWGVRKITFVDNGTVSYSNPVRQALYNFEDCGKPKAELAAASLKRIFPLMDATGVKLSIPMIGHKLVNEEAQHKDFDRLRALIKEHDIIFLLVDSRESRWLPSLLSNIENKTVINAALGFDSYLVMRHGNRDEQSSKQLGCYFCHDVVAPTDSLTDRTLDQMCTVTRPGVAMMASSLAVELMTSLLQTKYSGSETTVLGDIPHQIRGFLHNFSILKLETPAYEHCPACSPKVIEAFTDLGWEFVKKALEHPLYLEEISGLSVIKQEVERLGNDVFEWEDDESDEIA |
| 6514 | sp|P10083|AST5\_DROME | MALGSENHSVFNDDEESSSAFNGPSVIRRNARERNRVKQVNNGFSQLRQHIPAAVIADLSNGRRGIGPGANKKLSKVSTLKMAVEYIRRLQKVLHENDQQKQKQLHLQQQHLHFQQQQQHQHLYAWHQELQLQSPTGSTSSCNSISSYCKPATSTIPGATPPNNFHTKLEASFEDYRNNSCSSGTEDEDILDYISLWQDDL |
| 6515 | sp|P36107|AUR1\_YEAST | MANPFSRWFLSERPPNCHVADLETSLDPHQTLLKVQKYKPALSDWVHYIFLGSIMLFVFITNPAPWIFKILFYCFLGTLFIIPATSQFFFNALPILTWVALYFTSSYFPDDRRPPITVKVLPAVETILYGDNLSDILATSTNSFLDILAWLPYGLFHFGAPFVVAAILFVFGPPTVLQGYAFAFGYMNLFGVIMQNVFPAAPPWYKILYGLQSANYDMHGSPGGLARIDKLLGINMYTTAFSNSSVIFGAFPSLHSGCATMEALFFCYCFPKLKPLFIAYVCWLWWSTMYLTHHYFVDLMAGSVLSYVIFQYTKYTHLPIVDTSLFCRWSYTSIEKYDISKSDPLAADSNDIESVPLSNLELDFDLNMTDEPSVSPSLFDGSTSVSRSSATSITSLGVKRA |
| 6516 | sp|A8NMB4|ARO1\_COPC7 | MAVADDTKADLLKVSILGKESIHCGFHLTPYIVQTVLTTLPSSTYVLITDDNIAKLHLNKFEEAFAKGIEKSAANPKPRFLSHVIPPGETSKSREGKARIEDFLLFHKCTRDSVILALGGGVIGDLVGFVAATFMRGVRFCQIPTTLLAMVDSSVGGKTAIDTPHGKNLIGAFWQPEYIFIDAAYLETLPTREFSNGMAEVVKTAAIWDEKEFTSLESRSAELFAAIQTPSTNYAGRTLETRSEAQKLLLSTIAASIGVKAHIVTIDERETGLRNLVNFGHSIGHAIEAVLTPTILHGECVSIGMILEAELSRQLGILTQVGVGRLTRCLKAYNLPTSLSAPLIASLPQASLLTVPRLLDIMRIDKKNSGTNKKIVLLKRIGETYEQKASIVEDKAIEKTLAEAVTVVPSIPTGNVKGSPGEVRMSTPGSKSISNRALVLAALAKGTCRLRNLLHSDDTQGAVFTWEDGGETLVVEGGEGTLTVPTPGKELYLGNAGTAARFLTTVCALAQPAPASVQPPSTNTVITGNARMKQRPIGPLVDALRANGCSIGYRESEGCLPLSIPPNSFKGGKIQLAASVSSQYVSSILLCAPYAQDANGVTLELVGGEVISQPYIDMTIAMMKTFGVEVTRRTDASGKLLDIYDIPRGTYVNPPVYNIESDASSATYPLAVAAITGTKCTIENIGSSSLQGDAKFAVEVLQKMGCEVHQTADETTVQGPPLGQLKAIEEVDMEVMTDAFLTASVLAAVANGGENKAMKITGIANQRVKECNRIRAMMDELAKFGVHTTEQELGLTIYAVPISQLKKNVSVHCYDDHRVAMAFSVLSTVVEGAIIEEKRCVEKTWPGWWDDLENKIGIKVEGVDLAGLRAESSSAGVKESKPIDNSSILLIGMRGTGKTHIGQLAAASLPGWSFVDADHYFESKLKTGVKDFVKNEGWEKFREEELAVLAELIGLGVDGKAVSSPSSYSKNHVISLGGGIVETPAARSLLKAYLAKGGRVVHITRPIDEIVRYLNVETARPAYEEPILDVWKRREPWYKECSGWEFGNVVVEAPQGQAQAANVEAGPGKTKCVKTLAGRNEVKRFFGHLAGINPNFTHGGSVEGQQRRTYFLCLTYPDVRHAFPYIDELTEGADALELRVDLLKDAKAPEAPFPSVAYVKDQVTALRRVTGLPIIYTVRTKAQGGAFPDGNAKEYKELVEAGVRLGVEYLDVEVASIFSDKEVADLSKRTKKAGSTLVIASWHDWSGKMQWDGEDVKRKYDEARKFGDLVKIVGKAEKLEDNFKLLSFVKSATSLPNSPPIIAINMSTLGQSSRILNTTFTPVSHPLLPTKAAPGQLSFKQIQQALHLLGLLPSKHFHLFGTPIAHSMSPTLHNTGFELLGLPFKYGLLESKEVDCKEVRDVISDKEGFGGASVTIPFKVDVIELLDELTESAKEIGAVNTIIPVHRSSINAQGQEETTRVLVGDNTDWVGIRVCITQRVSEGELRNENTSGLVIGAGGTARAAIYALQDLGVPVIYLFNRTKEKAEDLAKAFVGGADKKWNGQLVVLDKLGGGWGDVGVAPRVIVSTVPASATALPSASTAAIAGQVDKSTNQIVLPADVFAYTSGSAVVVDMAYKPAETPLLKLAKELKEEGNWACVQGLEVLLEQGYIQFEKWTGRRCPKEQVSTRVWEKYGEV |
| 6517 | sp|Q8WXF7|ATLA1\_HUMAN | MAKNRRDRNSWGGFSEKTYEWSSEEEEPVKKAGPVQVLIVKDDHSFELDETALNRILLSEAVRDKEVVAVSVAGAFRKGKSFLMDFMLRYMYNQESVDWVGDYNEPLTGFSWRGGSERETTGIQIWSEIFLINKPDGKKVAVLLMDTQGTFDSQSTLRDSATVFALSTMISSIQVYNLSQNVQEDDLQHLQLFTEYGRLAMEETFLKPFQSLIFLVRDWSFPYEFSYGADGGAKFLEKRLKVSGNQHEELQNVRKHIHSCFTNISCFLLPHPGLKVATNPNFDGKLKEIDDEFIKNLKILIPWLLSPESLDIKEINGNKITCRGLVEYFKAYIKIYQGEELPHPKSMLQATAEANNLAAVATAKDTYNKKMEEICGGDKPFLAPNDLQTKHLQLKEESVKLFRGVKKMGGEEFSRRYLQQLESEIDELYIQYIKHNDSKNIFHAARTPATLFVVIFITYVIAGVTGFIGLDIIASLCNMIMGLTLITLCTWAYIRYSGEYRELGAVIDQVAAALWDQGSTNEALYKLYSAAATHRHLYHQAFPTPKSESTEQSEKKKM |
| 6518 | sp|Q03265|ATPA\_MOUSE | MLSVRVAAAVARALPRRAGLVSKNALGSSFVGARNLHASNTRLQKTGTAEMSSILEERILGADTSVDLEETGRVLSIGDGIARVHGLRNVQAEEMVEFSSGLKGMSLNLEPDNVGVVVFGNDKLIKEGDVVKRTGAIVDVPVGEELLGRVVDALGNAIDGKGPIGSKTRRRVGLKAPGIIPRISVREPMQTGIKAVDSLVPIGRGQRELIIGDRQTGKTSIAIDTIINQKRFNDGTDEKKKLYCIYVAIGQKRSTVAQLVKRLTDADAMKYTIVVSATASDAAPLQYLAPYSGCSMGEYFRDNGKHALIIYDDLSKQAVAYRQMSLLLRRPPGREAYPGDVFYLHSRLLERAAKMNDSFGGGSLTALPVIETQAGDVSAYIPTNVISITDGQIFLETELFYKGIRPAINVGLSVSRVGSAAQTRAMKQVAGTMKLELAQYREVAAFAQFGSDLDAATQQLLSRGVRLTELLKQGQYSPMAIEEQVAVIYAGVRGYLDKLEPSKITKFENAFLSHVISQHQSLLGNIRSDGKISEQSDAKLKEIVTNFLAGFEP |
| 6519 | sp|P15539|C11B2\_MOUSE | MALRVTADVWLARPWQCLHRTRALGTTATLAPKTLQPFEAIPQYSRNKWLKMIQILREQGQENLHLEMHQVFRELGPIFRHSVGKTQIVSVMLPEDAEKLHQVESMLPRRMHLEPWVAHRELRGLRRGVFLLNGPEWRLNRLRLNRNVLSPKAVQKFVPMVDMVARDFLETLKEKVLQNARGSLTMDVQQSLFNYTIEASNFALFGERLGLLGHDLSPGSLKFIHALHSMFKSTSQLLFLPKSLTRWTSTRVWKEHFDAWDVISEYANRCIWKVHQELRLGSSQTYSGIVAELISQGSLPLDAIKANSMELTAGSVDTTAIPLVMTLFELARNPDVQKALRQESLAAEASIAANPQKAMSDLPLLRAALKETLRLYPVGGFLERILSSDLVLQNYHVPAGTLVLLYLYSMGRNPAVFPRPERYMPQRWLERKRSFQHLAFGFGVRQCLGRRLAEVEMMLLLHHILKTFQVETLRQEDVQMAYRFVLMPSSSPVLTFRPVS |
| 6520 | sp|O35473|C1D\_MOUSE | MAGEEMNEDYPVEIHESLTALESSLGAVDDMLKTMMAVSRNELLQKLDPLEQAKVDLVSAYTLNSMFWVYLATQGVNPKEHPVKQELERIRVYMNRVKEITDKKKAAKLDRGAASRFVKNALWEPKAKSTPKVANKGKSKH |
| 6521 | sp|P36898|BMR1B\_MOUSE | MLLRSSGKLNVGTKKEDGESTAPTPRPKILRCKCHHHCPEDSVNNICSTDGYCFTMIEEDDSGMPVVTSGCLGLEGSDFQCRDTPIPHQRRSIECCTERNECNKDLHPTLPPLKDRDFVDGPIHHKALLISVTVCSLLLVLIILFCYFRYKRQEARPRYSIGLEQDETYIPPGESLRDLIEQSQSSGSGSGLPLLVQRTIAKQIQMVKQIGKGRYGEVWMGKWRGEKVAVKVFFTTEEASWFRETEIYQTVLMRHENILGFIAADIKGTGSWTQLYLITDYHENGSLYDYLKSTTLDAKSMLKLAYSSVSGLCHLHTEIFSTQGKPAIAHRDLKSKNILVKKNGTCCIADLGLAVKFISDTNEVDIPPNTRVGTKRYMPPEVLDESLNRNHFQSYIMADMYSFGLILWEIARRCVSGGIVEEYQLPYHDLVPSDPSYEDMREIVCMKKLRPSFPNRWSSDECLRQMGKLMTECWAQNPASRLTALRVKKTLAKMSESQDIKL |
| 6522 | sp|Q15582|BGH3\_HUMAN | MALFVRLLALALALALGPAATLAGPAKSPYQLVLQHSRLRGRQHGPNVCAVQKVIGTNRKYFTNCKQWYQRKICGKSTVISYECCPGYEKVPGEKGCPAALPLSNLYETLGVVGSTTTQLYTDRTEKLRPEMEGPGSFTIFAPSNEAWASLPAEVLDSLVSNVNIELLNALRYHMVGRRVLTDELKHGMTLTSMYQNSNIQIHHYPNGIVTVNCARLLKADHHATNGVVHLIDKVISTITNNIQQIIEIEDTFETLRAAVAASGLNTMLEGNGQYTLLAPTNEAFEKIPSETLNRILGDPEALRDLLNNHILKSAMCAEAIVAGLSVETLEGTTLEVGCSGDMLTINGKAIISNKDILATNGVIHYIDELLIPDSAKTLFELAAESDVSTAIDLFRQAGLGNHLSGSERLTLLAPLNSVFKDGTPPIDAHTRNLLRNHIIKDQLASKYLYHGQTLETLGGKKLRVFVYRNSLCIENSCIAAHDKRGRYGTLFTMDRVLTPPMGTVMDVLKGDNRFSMLVAAIQSAGLTETLNREGVYTVFAPTNEAFRALPPRERSRLLGDAKELANILKYHIGDEILVSGGIGALVRLKSLQGDKLEVSLKNNVVSVNKEPVAEPDIMATNGVVHVITNVLQPPANRPQERGDELADSALEIFKQASAFSRASQRSVRLAPVYQKLLERMKH |
| 6523 | sp|Q9ULD4|BRPF3\_HUMAN | MRKPRRKSRQNAEGRRSPSPYSLKCSPTRETLTYAQAQRIVEVDIDGRLHRISIYDPLKIITEDELTAQDITECNSNKENSEQPQFPGKSKKPSSKGKKKESCSKHASGTSFHLPQPSFRMVDSGIQPEAPPLPAAYYRYIEKPPEDLDAEVEYDMDEEDLAWLDMVNEKRRVDGHSLVSADTFELLVDRLEKESYLESRSSGAQQSLIDEDAFCCVCLDDECHNSNVILFCDICNLAVHQECYGVPYIPEGQWLCRCCLQSPSRPVDCILCPNKGGAFKQTSDGHWAHVVCAIWIPEVCFANTVFLEPIEGIDNIPPARWKLTCYICKQKGLGAAIQCHKVNCYTAFHVTCAQRAGLFMKIEPMRETSLNGTIFTVRKTAYCEAHSPPGAATARRKGDSPRSISETGDEEGLKEGDGEEEEEEEVEEEEQEAQGGVSGSLKGVPKKSKMSLKQKIKKEPEEAGQDTPSTLPMLAVPQIPSYRLNKICSGLSFQRKNQFMQRLHNYWLLKRQARNGVPLIRRLHSHLQSQRNAEQREQDEKTSAVKEELKYWQKLRHDLERARLLIELIRKREKLKREQVKVQQAAMELELMPFNVLLRTTLDLLQEKDPAHIFAEPVNLSEVPDYLEFISKPMDFSTMRRKLESHLYRTLEEFEEDFNLIVTNCMKYNAKDTIFHRAAVRLRDLGGAILRHARRQAENIGYDPERGTHLPESPKLEDFYRFSWEDVDNILIPENRAHLSPEVQLKELLEKLDLVSAMRSSGARTRRVRLLRREINALRQKLAQPPPPQPPSLNKTVSNGELPAGPQGDAAVLEQALQEEPEDDGDRDDSKLPPPPTLEPTGPAPSLSEQESPPEPPTLKPINDSKPPSRFLKPRKVEEDELLEKSPLQLGNEPLQRLLSDNGINRLSLMAPDTPAGTPLSGVGRRTSVLFKKAKNGVKLQRSPDRVLENGEDHGVAGSPASPASIEEERHSRKRPRSRSCSESEGERSPQQEEETGMTNGFGKHTESGSDSECSLGLSGGLAFEACSGLTPPKRSRGKPALSRVPFLEGVNGDSDYNGSGRSLLLPFEDRGDLEPLELVWAKCRGYPSYPALIIDPKMPREGLLHNGVPIPVPPLDVLKLGEQKQAEAGEKLFLVLFFDNKRTWQWLPRDKVLPLGVEDTVDKLKMLEGRKTSIRKSVQVAYDRAMIHLSRVRGPHSFVTSSYL |
| 6524 | sp|P62593|BLAT\_ECOLX | MSIQHFRVALIPFFAAFCLPVFAHPETLVKVKDAEDQLGARVGYIELDLNSGKILESFRPEERFPMMSTFKVLLCGAVLSRVDAGQEQLGRRIHYSQNDLVEYSPVTEKHLTDGMTVRELCSAAITMSDNTAANLLLTTIGGPKELTAFLHNMGDHVTRLDRWEPELNEAIPNDERDTTMPAAMATTLRKLLTGELLTLASRQQLIDWMEADKVAGPLLRSALPAGWFIADKSGAGERGSRGIIAALGPDGKPSRIVVIYTTGSQATMDERNRQIAEIGASLIKHW |
| 6525 | sp|P12998|BIOF\_ECOLI | MSWQEKINAALDARRAADALRRRYPVAQGAGRWLVADDRQYLNFSSNDYLGLSHHPQIIRAWQQGAEQFGIGSGGSGHVSGYSVVHQALEEELAEWLGYSRALLFISGFAANQAVIAAMMAKEDRIAADRLSHASLLEAASLSPSQLRRFAHNDVTHLARLLASPCPGQQMVVTEGVFSMDGDSAPLAEIQQVTQQHNGWLMVDDAHGTGVIGEQGRGSCWLQKVKPELLVVTFGKGFGVSGAAVLCSSTVADYLLQFARHLIYSTSMPPAQAQALRASLAVIRSDEGDARREKLAALITRFRAGVQDLPFTLADSCSAIQPLIVGDNSRALQLAEKLRQQGCWVTAIRPPTVPAGTARLRLTLTAAHEMQDIDRLLEVLHGNG |
| 6526 | sp|Q9UIF9|BAZ2A\_HUMAN | MEMEANDHFNFTGLPPAPAASGLKPSPSSGEGLYTNGSPMNFPQQGKSLNGDVNVNGLSTVSHTTTSGILNSAPHSSSTSHLHHPSVAYDCLWNYSQYPSANPGSNLKDPPLLSQFSGGQYPLNGILGGSRQPSSPSHNTNLRAGSQEFWANGTQSPMGLNFDSQELYDSFPDQNFEVMPNGPPSFFTSPQTSPMLGSSIQTFAPSQEVGSGIHPDEAAEKEMTSVVAENGTGLVGSLELEEEQPELKMCGYNGSVPSVESLHQEVSVLVPDPTVSCLDDPSHLPDQLEDTPILSEDSLEPFNSLAPEPVSGGLYGIDDTELMGAEDKLPLEDSPVISALDCPSLNNATAFSLLADDSQTSTSIFASPTSPPVLGESVLQDNSFDLNNGSDAEQEEMETQSSDFPPSLTQPAPDQSSTIQLHPATSPAVSPTTSPAVSLVVSPAASPEISPEVCPAASTVVSPAVFSVVSPASSAVLPAVSLEVPLTASVTSPKASPVTSPAAAFPTASPANKDVSSFLETTADVEEITGEGLTASGSGDVMRRRIATPEEVRLPLQHGWRREVRIKKGSHRWQGETWYYGPCGKRMKQFPEVIKYLSRNVVHSVRREHFSFSPRMPVGDFFEERDTPEGLQWVQLSAEEIPSRIQAITGKRGRPRNTEKAKTKEVPKVKRGRGRPPKVKITELLNKTDNRPLKKLEAQETLNEEDKAKIAKSKKKMRQKVQRGECQTTIQGQARNKRKQETKSLKQKEAKKKSKAEKEKGKTKQEKLKEKVKREKKEKVKMKEKEEVTKAKPACKADKTLATQRRLEERQRQQMILEEMKKPTEDMCLTDHQPLPDFSRVPGLTLPSGAFSDCLTIVEFLHSFGKVLGFDPAKDVPSLGVLQEGLLCQGDSLGEVQDLLVRLLKAALHDPGFPSYCQSLKILGEKVSEIPLTRDNVSEILRCFLMAYGVEPALCDRLRTQPFQAQPPQQKAAVLAFLVHELNGSTLIINEIDKTLESMSSYRKNKWIVEGRLRRLKTVLAKRTGRSEVEMEGPEECLGRRRSSRIMEETSGMEEEEEEESIAAVPGRRGRRDGEVDATASSIPELERQIEKLSKRQLFFRKKLLHSSQMLRAVSLGQDRYRRRYWVLPYLAGIFVEGTEGNLVPEEVIKKETDSLKVAAHASLNPALFSMKMELAGSNTTASSPARARGRPRKTKPGSMQPRHLKSPVRGQDSEQPQAQLQPEAQLHAPAQPQPQLQLQLQSHKGFLEQEGSPLSLGQSQHDLSQSAFLSWLSQTQSHSSLLSSSVLTPDSSPGKLDPAPSQPPEEPEPDEAESSPDPQALWFNISAQMPCNAAPTPPPAVSEDQPTPSPQQLASSKPMNRPSAANPCSPVQFSSTPLAGLAPKRRAGDPGEMPQSPTGLGQPKRRGRPPSKFFKQMEQRYLTQLTAQPVPPEMCSGWWWIRDPEMLDAMLKALHPRGIREKALHKHLNKHRDFLQEVCLRPSADPIFEPRQLPAFQEGIMSWSPKEKTYETDLAVLQWVEELEQRVIMSDLQIRGWTCPSPDSTREDLAYCEHLSDSQEDITWRGRGREGLAPQRKTTNPLDLAVMRLAALEQNVERRYLREPLWPTHEVVLEKALLSTPNGAPEGTTTEISYEITPRIRVWRQTLERCRSAAQVCLCLGQLERSIAWEKSVNKVTCLVCRKGDNDEFLLLCDGCDRGCHIYCHRPKMEAVPEGDWFCTVCLAQQVEGEFTQKPGFPKRGQKRKSGYSLNFSEGDGRRRRVLLRGRESPAAGPRYSEEGLSPSKRRRLSMRNHHSDLTFCEIILMEMESHDAAWPFLEPVNPRLVSGYRRIIKNPMDFSTMRERLLRGGYTSSEEFAADALLVFDNCQTFNEDDSEVGKAGHIMRRFFESRWEEFYQGKQANL |
| 6527 | sp|Q9VTG7|B3G2P\_DROME | MKGGNYTSLGTCSGINVSGNVAGTRKMSLGKSIKMYLTIFILTTCIYMALYQYHISREPFAASEVVKHQEKSSSYIASYLWSPISLLMANSSSNTNNNSTTTSTTTTTAPTTPTTTTTTTVGSVGQKLGASSISSIRMVSLAATIPSFKSTLSESRSVSLGGHQKTATVKTSTTITTRTTASGLATTKLSATTRTTAKTSAKLSAATTPTASHMENGYKTRPTFVAASLPPPLYIITPTYRRPEQLAELTRLGYTLKHVVNLLWLVIEDANKTNPLVGHTLDRIGVPYEYMVAPMPEKYKQTKKAKPRGVSNRNRGLEYLREHATEGVLYFADDDNTYDISIFEQMRYISKVAMWPVGLVTKTGVSSPIIQAGKLVGYYDGWIGGRKYPVDMAGFAVSVKFLKERPNAQMPFKPGYEEDGFLRSLAPLDDAEIELLADECRDILTWHTQTKKNAPAQALNRTRYKNTNLEHIDRLLVRP |
| 6528 | sp|A5PJP6|BRCC3\_BOVIN | MAVQVVQAVQAVHLESDAFLVCLNHALSTEKEEVMGLCIGELNDDLRNDPKFTYTGTEMRTVAEKVDTVRIVHIHSVIILRRSDKRKDRVEISPEQLSAASTEAERLAELTGRPMRVVGWYHSHPHITVWPSHVDVRTQAMYQMMDQGFVGLIFSCFIEDKNTKTGRVLYTCFQSIQAQKSSESPRGPRDFWSSSQHISIEGQKEEERYERIEIPIHIVPHVTIGKVCLESAVELPKILCQEEQDAYRRIHSLTHLDSVTKIHNGSVFTKNLCSQMSAVSGPLLQWLEDRLEQNQQHVQELQQEKEELLQELSSLE |
| 6529 | sp|P14353|BEL1\_FOAMV | MDSYEKEESVASTSGIQDLQTLSELVGPENAGEGELTIAEEPEENPRRPRRYTKREVKCVSYHAYKEIEDKHPQHIKLQDWIPTPEEMSKSLCKRLILCGLYSAEKASEILRMPFTVSWEQSDTDPDCFIVSYTCIFCDAVIHDPMPIRWDPEVGIWVKYKPLRGIVGSAVFIMHKHQRNCSLVKPSTSCSEGPKPRPRHDPVLRCDMFEKHHKPRQKRPRRRSIDNESCASSSDTMANEPGSLCTNPLWNPGPLLSGLLEESSNLPNLEVHMSGGPFWEEVYGDSILGPPSGSGEHSVL |
| 6530 | sp|Q3MKQ2|BEX1\_RAT | MESKDQGAKNLNMENDHQKKEEKEEKPQDTIKREPVVAPTFEAGKNCAPRGGRRRFRVRQPIAHYRWDLMHRVGEPQGRMREENVQRFGEDMRQLMEKLRERQLSHSLRAVSTDPPHHDHHDEFCLMP |
| 6531 | sp|O60909|B4GT2\_HUMAN | MSRLLGGTLERVCKAVLLLCLLHFLVAVILYFDVYAQHLAFFSRFSARGPAHALHPAASSSSSSSNCSRPNATASSSGLPEVPSALPGPTAPTLPPCPDSPPGLVGRLLIEFTSPMPLERVQRENPGVLMGGRYTPPDCTPAQTVAVIIPFRHREHHLRYWLHYLHPILRRQRLRYGVYVINQHGEDTFNRAKLLNVGFLEALKEDAAYDCFIFSDVDLVPMDDRNLYRCGDQPRHFAIAMDKFGFRLPYAGYFGGVSGLSKAQFLRINGFPNEYWGWGGEDDDIFNRISLTGMKISRPDIRIGRYRMIKHDRDKHNEPNPQRFTKIQNTKLTMKRDGIGSVRYQVLEVSRQPLFTNITVDIGRPPSWPPRG |
| 6532 | sp|Q9LV09|BOB1\_ARATH | MAIISEVEEESSSSRPMIFPFRATLSSANPLGFLEKVFDFLGEQSDFLKKPSAEDEIVVAVRAAKEKLKKAEKKKAEKESVKPVEKKAEKEIVKLVEKKVEKESVKPTIAASSAEPIEVEKPKEEEEKKESGPIVPNKGNGTDLENYSWIQNLQEVTVNIPVPTGTKARTVVCEIKKNRLKVGLKGQDPIVDGELYRSVKPDDCYWNIEDQKVISILLTKSDQMEWWKCCVKGEPEIDTQKVEPETSKLGDLDPETRSTVEKMMFDQRQKQMGLPTSEELQKQEILKKFMSEHPEMDFSNAKFN |
| 6533 | sp|O75150|BRE1B\_HUMAN | MSGPGNKRAAGDGGSGPPEKKLSREEKTTTTLIEPIRLGGISSTEEMDLKVLQFKNKKLAERLEQRQACEDELRERIEKLEKRQATDDATLLIVNRYWAQLDETVEALLRCHESQGELSSAPEAPGTQEGPTCDGTPLPEPGTSELRDPLLMQLRPPLSEPALAFVVALGASSSEEVELELQGRMEFSKAAVSRVVEASDRLQRRVEELCQRVYSRGDSEPLSEAAQAHTRELGRENRRLQDLATQLQEKHHRISLEYSELQDKVTSAETKVLEMETTVEDLQWDIEKLRKREQKLNKHLAEALEQLNSGYYVSGSSSGFQGGQITLSMQKFEMLNAELEENQELANSRMAELEKLQAELQGAVRTNERLKVALRSLPEEVVRETGEYRMLQAQFSLLYNESLQVKTQLDEARGLLLATKNSHLRHIEHMESDELGLQKKLRTEVIQLEDTLAQVRKEYEMLRIEFEQNLAANEQAGPINREMRHLISSLQNHNHQLKGDAQRYKRKLREVQAEIGKLRAQASGSAHSTPNLGHPEDSGVSAPAPGKEEGGPGPVSTPDNRKEMAPVPGTTTTTTSVKKEELVPSEEDFQGITPGAQGPSSRGREPEARPKRELREREGPSLGPPPVASALSRADREKAKVEETKRKESELLKGLRAELKKAQESQKEMKLLLDMYKSAPKEQRDKVQLMAAERKAKAEVDELRSRIRELEERDRRESKKIADEDALRRIRQAEEQIEHLQRKLGATKQEEEALLSEMDVTGQAFEDMQEQNGRLLQQLREKDDANFKLMSERIKANQIHKLLREEKDELGEQVLGLKSQVDAQLLTVQKLEEKERALQGSLGGVEKELTLRSQALELNKRKAVEAAQLAEDLKVQLEHVQTRLREIQPCLAESRAAREKESFNLKRAQEDISRLRRKLEKQRKVEVYADADEILQEEIKEYKARLTCPCCNTRKKDAVLTKCFHVFCFECVRGRYEARQRKCPKCNAAFGAHDFHRIYIS |
| 6534 | sp|Q7Z6B0|CCD91\_HUMAN | MDDDDFGGFEAAETFDGGSGETQTTSPAIPWAAFPAVSGVHLSPSSPEIVLDRDHSSSIGCLSSDAIISSPENTHAANSIVSQTIPKAQIQQSTHTHLDISLFPLGLTDEKSNGTIALVDDSEDPGANVSNIQLQQKISSLEIKLKVSEEEKQRIKQDVESLMEKHNVLEKGFLKEKEQEAISFQDRYKELQEKHKQELEDMRKAGHEALSIIVDEYKALLQSSVKQQVEAIEKQYISAIEKQAHKCEELLNAQHQRLLEMLDTEKELLKEKIKEALIQQSQEQKEILEKCLEEERQRNKEALVSAAKLEKEAVKDAVLKVVEEERKNLEKAHAEERELWKTEHAKDQEKVSQEIQKAIQEQRKISQETVKAAIIEEQKRSEKAVEEAVKRTRDELIEYIKEQKRLDQVIRQRSLSSLELFLSCAQKQLSALIATEPVDIE |
| 6535 | sp|Q6W2J9|BCOR\_HUMAN | MLSATPLYGNVHSWMNSERVRMCGASEDRKILVNDGDASKARLELREENPLNHNVVDASTAHRIDGLAALSMDRTGLIREGLRVPGNIVYSSLCGLGSEKGREAATSTLGGLGFSSERNPEMQFKPNTPETVEASAVSGKPPNGFSAIYKTPPGIQKSAVATAEALGLDRPASDKQSPLNINGASYLRLPWVNPYMEGATPAIYPFLDSPNKYSLNMYKALLPQQSYSLAQPLYSPVCTNGERFLYLPPPHYVGPHIPSSLASPMRLSTPSASPAIPPLVHCADKSLPWKMGVSPGNPVDSHAYPHIQNSKQPRVPSAKAVTSGLPGDTALLLPPSPRPSPRVHLPTQPAADTYSEFHKHYARISTSPSVALSKPYMTVSSEFPAARLSNGKYPKAPEGGEGAQPVPGHARKTAVQDRKDGSSPPLLEKQTVTKDVTDKPLDLSSKVVDVDASKADHMKKMAPTVLVHSRAGSGLVLSGSEIPKETLSPPGNGCAIYRSEIISTAPSSWVVPGPSPNEENNGKSMSLKNKALDWAIPQQRSSSCPRMGGTDAVITNVSGSVSSAGRPASASPAPNANADGTKTSRSSVETTPSVIQHVGQPPATPAKHSSSTSSKGAKASNPEPSFKANENGLPPSSIFLSPNEAFRSPPIPYPRSYLPYPAPEGIAVSPLSLHGKGPVYPHPVLLPNGSLFPGHLAPKPGLPYGLPTGRPEFVTYQDALGLGMVHPMLIPHTPIEITKEEKPERRSRSHERARYEDPTLRNRFSEILETSSTKLHPDVPTDKNLKPNPNWNQGKTVVKSDKLVYVDLLREEPDAKTDTNVSKPSFAAESVGQSAEPPKPSVEPALQQHRDFIALREELGRISDFHETYTFKQPVFTVSKDSVLAGTNKENLGLPVSTPFLEPPLGSDGPAVTFGKTQEDPKPFCVGSAPPSVDVTPTYTKDGADEAESNDGKVLKPKPSKLAKRIANSAGYVGDRFKCVTTELYADSSQLSREQRALQMEGLQEDSILCLPAAYCERAMMRFSELEMKEREGGHPATKDSEMCKFSPADWERLKGNQDKKPKSVTLEEAIAEQNESERCEYSVGNKHRDPFEAPEDKDLPVEKYFVERQPVSEPPADQVASDMPHSPTLRVDRKRKVSGDSSHTETTAEEVPEDPLLKAKRRRVSKDDWPEREMTNSSSNHLEDPHYSELTNLKVCIELTGLHPKKQRHLLHLRERWEQQVSAADGKPGRQSRKEVTQATQPEAIPQGTNITEEKPGRKRAEAKGNRSWSEESLKPSDNEQGLPVFSGSPPMKSLSSTSAGGKKQAQPSCAPASRPPAKQQKIKENQKTDVLCADEEEDCQAASLLQKYTDNSEKPSGKRLCKTKHLIPQESRRGLPLTGEYYVENADGKVTVRRFRKRPEPSSDYDLSPAKQEPKPFDRLQQLLPASQSTQLPCSSSPQETTQSRPMPPEARRLIVNKNAGETLLQRAARLGYEEVVLYCLENKICDVNHRDNAGYCALHEACARGWLNIVRHLLEYGADVNCSAQDGTRPLHDAVENDHLEIVRLLLSYGADPTLATYSGRTIMKMTHSELMEKFLTDYLNDLQGRNDDDASGTWDFYGSSVCEPDDESGYDVLANPPGPEDQDDDDDAYSDVFEFEFSETPLLPCYNIQVSVAQGPRNWLLLSDVLKKLKMSSRIFRCNFPNVEIVTIAEAEFYRQVSASLLFSCSKDLEAFNPESKELLDLVEFTNEIQTLLGSSVEWLHPSDLASDNYW |
| 6536 | sp|P47756|CAPZB\_HUMAN | MSDQQLDCALDLMRRLPPQQIEKNLSDLIDLVPSLCEDLLSSVDQPLKIARDKVVGKDYLLCDYNRDGDSYRSPWSNKYDPPLEDGAMPSARLRKLEVEANNAFDQYRDLYFEGGVSSVYLWDLDHGFAGVILIKKAGDGSKKIKGCWDSIHVVEVQEKSSGRTAHYKLTSTVMLWLQTNKSGSGTMNLGGSLTRQMEKDETVSDCSPHIANIGRLVEDMENKIRSTLNEIYFGKTKDIVNGLRSIDAIPDNQKFKQLQRELSQVLTQRQIYIQPDN |
| 6537 | sp|Q9UHR4|BI2L1\_HUMAN | MSRGPEEVNRLTESTYRNVMEQFNPGLRNLINLGKNYEKAVNAMILAGKAYYDGVAKIGEIATGSPVSTELGHVLIEISSTHKKLNESLDENFKKFHKEIIHELEKKIELDVKYMNATLKRYQTEHKNKLESLEKSQAELKKIRRKSQGSRNALKYEHKEIEYVETVTSRQSEIQKFIADGCKEALLEEKRRFCFLVDKHCGFANHIHYYHLQSAELLNSKLPRWQETCVDAIKVPEKIMNMIEEIKTPASTPVSGTPQASPMIERSNVVRKDYDTLSKCSPKMPPAPSGRAYTSPLIDMFNNPATAAPNSQRVNNSTGTSEDPSLQRSVSVATGLNMMKKQKVKTIFPHTAGSNKTLLSFAQGDVITLLIPEEKDGWLYGEHDVSKARGWFPSSYTKLLEENETEAVTVPTPSPTPVRSISTVNLSENSSVVIPPPDYLECLSMGAAADRRADSARTTSTFKAPASKPETAAPNDANGTAKPPFLSGENPFATVKLRPTVTNDRSAPIIR |
| 6538 | sp|Q9UKI2|BORG2\_HUMAN | MPAKTPIYLKAANNKKGKKFKLRDILSPDMISPPLGDFRHTIHIGKEGQHDVFGDISFLQGNYELLPGNQEKAHLGQFPGHNEFFRANSTSDSVFTETPSPVLKNAISLPTIGGSQALMLPLLSPVTFNSKQESFGPAKLPRLSCEPVMEEKAQEKSSLLENGTVHQGDTSWGSSGSASQSSQGRDSHSSSLSEQYPDWPAEDMFDHPTPCELIKGKTKSEESLSDLTGSLLSLQLDLGPSLLDEVLNVMDKNK |
| 6539 | sp|P55288|CAD11\_MOUSE | MKENYCLQAALVCLSMLYHSQAFALERRSHLHPSFHGHHEKGKEGQVLQRSKRGWVWNQFFVIEEYTGPDPVLVGRLHSDIDSGDGNIKYILSGEGAGTIFVIDDKSGNIHATKTLDREERAQYTLMAQAVDRDTNRPLEPPSEFIVKVQDINDNPPEFLHEIYHANVPERSNVGTSVIQVTASDADDPTYGNSAKLVYSILEGQPYFSVEAQTGIIRTALPNMDREAKEEYHVVIQAKDMGGHMGGLSGTTKVTITLTDVNDNPPKFPQSVYQMSVSEAAVPGEEVGRVKAKDPDIGENGLVTYNIVDGDGIELFEITTDYETQDGVVKLKKPVDFETKRAYSLKIEAANVHIDPKFISNGPFKDTVTVKISVEDADEPPMFLAPSYIHEVQENAAAGTVVGRVHAKDPDAANSPIRYSIDRHTDLDRFFTINPEDGFIKTTKPLDREETAWLNISVFAAEIHNRHQETKVPVAIRVLDVNDNAPKFAAPYEGFICESDHPKALSNQPIVTVSADDQDDTANGPRFIFSLPPEIMHNPNFTVRDNRDNTAGVYARRGGFSRQKQDFYLLPIVISDGGIPPMSSTNTLTIKVCGCDVNGALLSCNAEAYILNAGLSTGALIAILACIVILLVIVVLFVTLRRQKKEPLIVFEEEDVRENIITYDDEGGGEEDTEAFDIATLQNPDGINGFIPRKDIKPEYQYMPRPGLRPAPNSVDVDDFINTRIQEADNDPTAPPYDSIQIYGYEGRGSVAGSLSSLESATTDSDLDYDYLQNWGPRFKKLADLYGSKDTFDDDS |
| 6540 | sp|Q66L44|CBARP\_MOUSE | MQPTATMATAAATTATVALTTSWDNATSRPTAEPDPILDNYVLLVVVMSLFVGGTLVVLSGVLLLCKRCWEVHQRFNRAMEEAEKTTTTYLDNGTHPIQDPDCRGEDPEGQDTETERFLATSSTGRRVSFNEAALFEQSRKAQDKGRRYTLTEGDFHHLKNARLTHLHLPPLKIATIHECDSGEASAAATPHPATTSKDSLAIFQPPGKTLTGHSVGPSSALPGGPYNSVDFSEISPSTSSDSGEGISLDAGTRGAKAAGPETVPGEMGTGSSGSGTVLQFFTRLRRHASLDGASPYFKVKKWKLEPSQRASSLDTRGSPKRHHFQRQRAASESMEQEGDVPHADFIQYIASAGDSVAFPPPRPFLASPTSPPPTLGRLEAAEAAGGASPETPPEHGISLGPEHAQQQDPQQEQDAEHAQCSYRDLWSLRASLELHAATASDHSSSGNDRDSVRSGDSSGSGSGGGGAAPAFPPPPESPPALRPKDGEARRLLQMDSGYASIEGRGAGDEVSELPAPARSPPRSPRAWPRRPRRDYSIDEKTDALFHEFLRHDPHFDDAPRHRTRAHPHTHARKQWQQRGRQHSDPGGARAATPPGVARPTRAPLRRGDSVDCPPEGRALPITGDDPSIPVIEEEPGGGGGGCPGSGLCVEPAGALLDKLAASLDERLFSPRLAEPVASSQVLIVAAAAPTSPDHSPA |
| 6541 | sp|Q8N163|CCAR2\_HUMAN | MSQFKRQRINPLPGGRNFSGTASTSLLGPPPGLLTPPVATELSQNARHLQGGEKQRVFTGIVTSLHDYFGVVDEEVFFQLSVVKGRLPQLGEKVLVKAAYNPGQAVPWNAVKVQTLSNQPLLKSPAPPLLHVAALGQKQGILGAQPQLIFQPHRIPPLFPQKPLSLFQTSHTLHLSHLNRFPARGPHGRLDQGRSDDYDSKKRKQRAGGEPWGAKKPRHDLPPYRVHLTPYTVDSPICDFLELQRRYRSLLVPSDFLSVHLSWLSAFPLSQPFSLHHPSRIQVSSEKEAAPDAGAEPITADSDPAYSSKVLLLSSPGLEELYRCCMLFVDDMAEPRETPEHPLKQIKFLLGRKEEEAVLVGGEWSPSLDGLDPQADPQVLVRTAIRCAQAQTGIDLSGCTKWWRFAEFQYLQPGPPRRLQTVVVYLPDVWTIMPTLEEWEALCQQKAAEAAPPTQEAQGETEPTEQAPDALEQAADTSRRNAETPEATTQQETDTDLPEAPPPPLEPAVIARPGCVNLSLHGIVEDRRPKERISFEVMVLAELFLEMLQRDFGYRVYKMLLSLPEKVVSPPEPEKEEAAKEEATKEEEAIKEEVVKEPKDEAQNEGPATESEAPLKEDGLLPKPLSSGGEEEEKPRGEASEDLCEMALDPELLLLRDDGEEEFAGAKLEDSEVRSVASNQSEMEFSSLQDMPKELDPSAVLPLDCLLAFVFFDANWCGYLHRRDLERILLTLGIRLSAEQAKQLVSRVVTQNICQYRSLQYSRQEGLDGGLPEEVLFGNLDLLPPPGKSTKPGAAPTEHKALVSHNGSLINVGSLLQRAEQQDSGRLYLENKIHTLELKLEESHNRFSATEVTNKTLAAEMQELRVRLAEAEETARTAERQKSQLQRLLQELRRRLTPLQLEIQRVVEKADSWVEKEEPAPSN |
| 6542 | sp|Q9XF87|CB24\_ARATH | MATSAIQHSSFAGQTTLKPSNDLLRKIGASNGGGRIIMRRTVKSTPQSIWYGPDRPKYLGPFSENTPSYLTGEYPGDYGWDTAGLSADPETFAKNRELEVIHSRWAMLGALGCTFPEILSKNGVKFGEAVWFKAGSQIFSEGGLDYLGNPNLIHAQSILAIWACQVVLMGFIEGYRIGGGPLGEGLDPLYPGGAFDPLNLAEDPEAFSELKVKELKNGRLAMFSMFGFFVQAIVTGKGPIENLFDHIADPVANNAWAYATNFVPGK |
| 6543 | sp|P48298|CCL11\_MOUSE | MQSSTALLFLLLTVTSFTSQVLAHPGSIPTSCCFIMTSKKIPNTLLKSYKRITNNRCTLKAIVFKTRLGKEICADPKKKWVQDATKHLDQKLQTPKP |
| 6544 | sp|Q51693|CAPD\_BACAN | MNSFKWGKKIILFCLIVSLMGGIGVSCSFNKIKDSVKQKIDSMGDKGTYGVSASHPLAVEEGMKVLKNGGSAVDAAIVVSYVLGVVELHASGIGGGGGMLIISKDKETFIDYRETTPYFTGNQKPHIGVPGFVAGMEYIHDNYGSLPMGELLQPAINYAEKGFKVDDSLTMRLDLAKPRIYSDKLSIFYPNGEPIETGETLIQTDLARTLKKIQKEGAKGFYEGGVARAISKTAKISLEDIKGYKVEVRKPVKGNYMGYDVYTAPPPFSGVTLLQMLKLAEKKEVYKDVDHTATYMSKMEEISRIAYQDRKKNLGDPNYVNMDPNKMVSDKYISTMKNENGDALSEAEHESTTHFVIIDRDGTVVSSTNTLSNFFGTGKYTAGFFLNNQLQNFGSEGFNSYEPGKRSRTFMAPTVLKKDGETIGIGSPGGNRIPQILTPILDKYTHGKGSLQDIINEYRFTFEKNTAYTEIQLSSEVKNELSRKGLNVKKKVSPAFFGGVQALIKDERDNVITGAGDGRRNGTWKSNK |
| 6545 | sp|Q9D3A8|CAPON\_MOUSE | MPSKTKYNLVDDGHDLRIPLHNEDAFQHGISFEAKYVGSLDVPRPNSRVEIVAAMRRIRYEFKAKNIKKKKVSIMVSVDGVKVILKKKKKKKEWTWDESKMLVMQDPIYRIFYVSHDSQDLKIFSYIARDGASNIFRCNVFKSKKKSQAMRIVRTVGQAFEVCHKLSLQHTQQNADGQEDGESERNSDGSGDPGRQLTGAERVSTAAAEETDIDAVEVPLPGNDILEFSRGVTDLDAVGKDGGSHIDSTVSPHPQEPMLTASPRMLLPSSSSKPPGLGTGTPLSTHHQMQLLQQLLQQQQQQTQVAVAQVHLLKDQLAAEAAARLEAQARVHQLLLQNKDMLQHISLLVKQVQELELKLSGQNTMGSQDSLLEITFRSGALPVLCESTTPKPEDLHSPLLGAGLADFAHPAGSPLGRHDCLVKLECFRFLPPEDTQPMMAQGEPLLGGLELIKFRESGIASEYESNTDESEERDSWSQEELPRLLNVLQRQELGDSLDDEIAV |
| 6546 | sp|P52907|CAZA1\_HUMAN | MADFDDRVSDEEKVRIAAKFITHAPPGEFNEVFNDVRLLLNNDNLLREGAAHAFAQYNMDQFTPVKIEGYEDQVLITEHGDLGNSRFLDPRNKISFKFDHLRKEASDPQPEEADGGLKSWRESCDSALRAYVKDHYSNGFCTVYAKTIDGQQTIIACIESHQFQPKNFWNGRWRSEWKFTITPPTAQVVGVLKIQVHYYEDGNVQLVSHKDVQDSLTVSNEAQTAKEFIKIIENAENEYQTAISENYQTMSDTTFKALRRQLPVTRTKIDWNKILSYKIGKEMQNA |
| 6547 | sp|Q9UFE4|CCD39\_HUMAN | MSSEFLAELHWEDGFAIPVANEENKLLEDQLSKLKDERASLQDELREYEERINSMTSHFKNVKQELSITQSLCKARERETESEEHFKAIAQRELGRVKDEIQRLENEMASILEKKSDKENGIFKATQKLDGLKCQMNWDQQALEAWLEESAHKDSDALTLQKYAQQDDNKIRALTLQLERLTLECNQKRKILDNELTETISAQLELDKAAQDFRKIHNERQELIKQWENTIEQMQKRDGDIDNCALELARIKQETREKENLVKEKIKFLESEIGNNTEFEKRISVADRKLLKCRTAYQDHETSRIQLKGELDSLKATVNRTSSDLEALRKNISKIKKDIHEETARLQKTKNHNEIIQTKLKEITEKTMSVEEKATNLEDMLKEEEKDVKEVDVQLNLIKGVLFKKAQELQTETMKEKAVLSEIEGTRSSLKHLNHQLQKLDFETLKQQEIMYSQDFHIQQVERRMSRLKGEINSEEKQALEAKIVELRKSLEEKKSTCGLLETQIKKLHNDLYFIKKAHSKNSDEKQSLMTKINELNLFIDRSEKELDKAKGFKQDLMIEDNLLKLEVKRTREMLHSKAEEVLSLEKRKQQLYTAMEERTEEIKVHKTMLASQIRYVDQERENISTEFRERLSKIEKLKNRYEILTVVMLPPEGEEEKTQAYYVIKAAQEKEELQREGDCLDAKINKAEKEIYALENTLQVLNSCNNNYKQSFKKVTPSSDEYELKIQLEEQKRAVDEKYRYKQRQIRELQEDIQSMENTLDVIEHLANNVKEKLSEKQAYSFQLSKETEEQKPKLERVTKQCAKLTKEIRLLKDTKDETMEEQDIKLREMKQFHKVIDEMLVDIIEENTEIRIILQTYFQQSGLELPTASTKGSRQSSRSPSHTSLSARSSRSTSTSTSQSSIKVLELKFPASSSLVGSPSRPSSASSSSSNVKSKKSSK |
| 6548 | sp|O75952|CABYR\_HUMAN | MISSKPRLVVPYGLKTLLEGISRAVLKTNPSNINQFAAAYFQELTMYRGNTTMDIKDLVKQFHQIKVEKWSEGTTPQKKLECLKEPGKTSVESKVPTQMEKSTDTDEDNVTRTEYSDKTTQFPSVYAVPGTEQTEAVGGLSSKPATPKTTTPPSSPPPTAVSPEFAYVPADPAQLAAQMLGKVSSIHSDQSDVLMVDVATSMPVVIKEVPSSEAAEDVMVAAPLVCSGKVLEVQVVNQTSVHVDLGSQPKENEAEPSTASSVPLQDEQEPPAYDQAPEVTLQADIEVMSTVHISSVYNDVPVTEGVVYIEQLPEQIVIPFTDQVACLKENEQSKENEQSPRVSPKSVVEKTTSGMSKKSVESVKLAQLEENAKYSSVYMEAEATALLSDTSLKGQPEVPAQLLDAEGAIKIGSEKSLHLEVEITSIVSDNTGQEESGENSVPQEMEGKPVLSGEAAEAVHSGTSVKSSSGPFPPAPEGLTAPEIEPEGESTAE |
| 6549 | sp|P69747|CA1A\_CONVC | MGMRMMFTVFLLVVLATTVVSSTSGRREFRGRNAAAKASDLVSLTDKKRGCCSDPRCNYDHPEICG |
| 6550 | sp|Q8BYR5|CAPS2\_MOUSE | MLDPSSSEEESDEGLEEESREVLVAPGVSQRAPPAAAREGRRDAPGRSGGGSGGGAARPVSPSPSVLSEGRNEPELQLDEEQERRIRLQLYVFVVRCIAYPFNAKQPTDMARRQQKLNKQQLQLLKERFQAFLNGETQIVADEAFCNAVRSYYEVFLKSDRVARMVQSGGCSANDFREVFKKNIEKRVRSLPEIDGLSKETVLSSWIAKYDAIYRGEEDLCKQPNRMTLSAVSELILSKEQLYEMFQQILGIKKLEHQLLYNACQLDNADEQAAQIRRELDGRLQLAEKMAKERRFPRFISKEMESMYIEELRASVNLLMANLESLPVSKGGPEFKLQKLKRSQNSAFLDLGDENEIQLSKSDVVLSFTLEIVIMEVQGLKSVAPNRIVYCTMEVEGGEKLQTDQAEASRPQWGTQGDFNTTHPRPVVKVKLFTESTGVLALEDKELGRVVLYPTSNSSKSAELHRMTVPKNSQDSDLKIKLAVRMDKPAHMKHSGYLYALGQKVWKRWKKRYFVLVQVSQYTFAMCSYREKKSEPQELMQLEGYTVDYTDPHPGLQGGQVFFNAVKEGDTVIFASDDEQDRILWVQAMYRATGQSYKPVPAVQSQKLNPKGGALHADAQLYADRFQKHGMDEFISASPCKLDHAFLFRILQRQTLDHRLNDSYSCLGWFSPGQVFVLDEYCARYGVRGCHRHLCYLTELMEHSENGAVIDPTLLHYSFAFCASHVHGNRPDGIGTVSVEEKERFEEIKDRLSSLLENQISHFRYCFPFGRPEGALKATLSLLERVLMKDIATPIPAEEVKKVVRKCLEKAALINYTRLTEYAKIEETMNQATPARKLEEVLHLAELCIEVLQQNEEHHAEGREAFAWWPDLLAEHAEKFWALFTVDMDTALEAQPQDSWDSFPLFQLLNNFLRNDTLLCNGKFHKHLQEIFVPLVVRYVDLMESAIAQSIHRGFEQETWQPVKNIANSLPNVALPKVPSLPLNLPQIPSFSTPPWMASLYESTNGSTTSEDLFWKLDALQMFVFDLHWPEQEFAHHLEQRLKLMASDMIEACVKRTRTAFELKLQKANKTTDLRIPASVCTMFNVLVDAKKQSTKLCALDGGQEQQYHSKIDDLIDNTVKEIIALLVSKFVSVLEGVLSKLSRYDEGTFFSSILSFTVKAAAKYVDVPKPGMDLADTYIMFVRQNQDILREKVNEEMYIEKLFDQWYSNSMKVICVWLADRLDLQLHIYQLKTLIKIVKKTYRDFRLQGVLEGTLNSKTYDTLHRRLTVEEATASVSEGGGLQGITMKDSDEEEEG |
| 6551 | sp|Q8IVM0|CCD50\_HUMAN | MAEVSIDQSKLPGVKEVCRDFAVLEDHTLAHSLQEQEIEHHLASNVQRNRLVQHDLQVAKQLQEEDLKAQAQLQKRYKDLEQQDCEIAQEIQEKLAIEAERRRIQEKKDEDIARLLQEKELQEEKKRKKHFPEFPATRAYADSYYYEDGGMKPRVMKEAVSTPSRMAHRDQEWYDAEIARKLQEEELLATQVDMRAAQVAQDEEIARLLMAEEKKAYKKAKEREKSSLDKRKQDPEWKPKTAKAANSKSKESDEPHHSKNERPARPPPPIMTDGEDADYTHFTNQQSSTRHFSKSESSHKGFHYKH |
| 6552 | sp|Q6JHU9|CBP\_RAT | MAENLLDGPPNPKRAKLSSPGFSANDSTDFGSLFDLENDLPDELIPNGELSLLNSGNLVPDAASKHKQLSELLRGGSGSSITPGIGNVSASSPVQQGLGGQAQGQPNSTSMASLGAMGKSPLNPGDSSTPSLPKQAASTSGPTPPASQALNPQAQKQVGLVTSSPATSQTGPGICMNANFNQTHPGLLNSNSGHSLMNQAQQGQAQVMNGSLGAAGRGRGAGMPYPAPAMQGATSSVLAETLTQVSPQMAGHAGLNTAQAGGMTKMGMTGNTSPFGQPFSQTGGQPMGATGVNPQLASKQSMVNSLPAFPTDIKNTSVTTVPNMSQLQTSVGIVPAQGIATGPTADPEKRKLIQQQLVLLLHAHKCQRREQANGEVRACSLPHCRTMKNVLNHMTHCQAGKACQVAHCASSRQIISHWKNCTRHDCPVCLPLKNASDKRNQQTILGSPASGIQNTIGSVGAGQQNATSLSNPNPIDPSSMQRAYAALGLPYMNQPQTQLQPQVPGQQPAQPPAHQQMRTLNALGNNPMSIPAGGITTDQQPPNLISESALPTSLGATNPLMNDGSNSDSIGSLSTIPTAAPPSSTGVRKGWHEHVTQDLRSHLVHKLVQAIFPTPDPAALKDRRMENLVAYAKKVEGDMYESANSRDEYYHLLAEKIYKIQKELEEKRRSRLHKQGILGNQPALPAPGAQPPVIPPTQSVRPPNGPLSLPVNRVQVSQGMNSFNPMSLGNVQLPQAPMGPRAASPMNHSVQMNSMASVPGMAISPSRMPQPPNMMGTHANNIMAQAPTQNQFLPQNQFPSSSGAMSVNSVGMGQPATQAGVSQGQVPGGTLPNPLNMLAPQTSQLPCPPVTQSPLHPTPPPASTAAGMPSLQHPTPPGMTPPQPAAPTQPSTPVSSGQTPTPTPGSVPSAAQTQSTPTVQAAAQAQVTPQPQTPVQPPSVATPQSSQQQPTPVHTQPPGTPLSQAAASIDNRVPTPSSVTSAETSSQQPGPDVPMLEMKTEVQTDDAEPDPAESKGEPRSEMMEEDLQGSSQVKEETDTTEQKSEPMEVEEKKPEVKVEAKEEEENSANGTASQSTSPSQPRKKIFKPEELRQALMPTLEALYRQDPESLPFRQPVDPQLLGIPDYFDIVKNPMDLSTIKRKLDTGQYQEPWQYVDDVWLMFNNAWLYNRKTSRVYKFCSKLAEVFEQEIDPVMQSLGYCCGRKYEFSPQTLCCYGKQLCTIPRDAAYYSYQNRYHFCEKCFTEIQGENVTLGDDPSQPQTTISKDQFEKKKNDTLDPEPFVDCKECGRKMHQICVLHYDIIWPSGFVCDNCLKKTGRPRKENKFSAKRLQTTRLGNHLEDRVNKFLRRQNHPEAGEVFVRVVASSDKTVEVKPGMKSRFVDSGEMSESFPYRTKALFAFEEIDGVDVCFFGMHVQEYGSDCPPPNTRRVYISYLDSIHFFRPRCLRTAVYHEILIGYLEYVKKLGYVTGHIWACPPSEGDDYIFHCHPPDQKIPKPKRLQEWYKKMLDKAFAERIINDYKDIFKQANEDRLTSAKELPYFEGDFWPNVLEESIKELEQEEEERKKEESTAASETPEGSQGDSKNAKKKNNKKTNKNKSSISRANKKKPSMPNVSNDLSQKLYATMEKHKEVFFVIHLHAGPVISTQPPIVDPDPLLSCDLMDGRDAFLTLARDKHWEFSSLRRSKWSTLCMLVELHTQGQDRFVYTCNECKHHVETRWHCTVCEDYDLCINCYNTKSHTHKMVKWGLGLDDEGSSQGEPQSKSPQESRRLSIQRCIQSLVHACQCRNANCSLPSCQKMKRVVQHTKGCKRKTNGGCPVCKQLIALCCYHAKHCQENKCPVPFCLNIKHKLRQQQIQHRLQQAQLMRRRMATMNTRNVPQQSLPSPTSAPPGTPTQQPSTPQTPQPPAQPQPSPVNMSPAGFPSVARTQPPTIVSAGKPTNQVPAPPPPAQPPPAAVEAARQIEREGQQQQHLYRANINNGMPPGRAGMGTPGSQMAPVGLNVPRPNQVSGPVMSSMPPGQWQQAPIPQQQPMPGMPRPVMSMQAQAAVAGPRMPNVQPPRSISPSALQDLLRTLKSPSSPQQQQQVLNILKSNPQLMAAFIKQRTAKYVANQPGMQPQPGLQSQPGMQPQPGMHQQPSLQNLNAMQAGVPRPGVPPPQQAMGGLNPQGQALNIMNPGHNPNMANMNPQYREMVRRQLLQHQQQQQQQQQQQQQQQQSSASLAGGMAGHSQFQQPQGPGGYAPAMQQQRMQQHLPIQGSSMGQMAAPMGQLGQMGQPGLGADSTPNIQQALQQRILQQQQMKQQIGSPGQPNPMSPQQHMLSGQPQASHLPGQQIATSLSNQVRSPAPVQSPRPQSQPPHSSPSPRIQPQPSPHHVSPQTGSPHPGLAVTMASSMDQGHLGNPEQSAMLPQLNTPNRSALSSELSLVGDTTGDTLEKFVEGL |
| 6553 | sp|P51437|CAMP\_MOUSE | MQFQRDVPSLWLWRSLSLLLLLGLGFSQTPSYRDAVLRAVDDFNQQSLDTNLYRLLDLDPEPQGDEDPDTPKSVRFRVKETVCGKAERQLPEQCAFKEQGVVKQCMGAVTLNPAADSFDISCNEPGAQPFRFKKISRLAGLLRKGGEKIGEKLKKIGQKIKNFFQKLVPQPE |
| 6554 | sp|Q8NFZ8|CADM4\_HUMAN | MGRARRFQWPLLLLWAAAAGPGAGQEVQTENVTVAEGGVAEITCRLHQYDGSIVVIQNPARQTLFFNGTRALKDERFQLEEFSPRRVRIRLSDARLEDEGGYFCQLYTEDTHHQIATLTVLVAPENPVVEVREQAVEGGEVELSCLVPRSRPAATLRWYRDRKELKGVSSSQENGKVWSVASTVRFRVDRKDDGGIIICEAQNQALPSGHSKQTQYVLDVQYSPTARIHASQAVVREGDTLVLTCAVTGNPRPNQIRWNRGNESLPERAEAVGETLTLPGLVSADNGTYTCEASNKHGHARALYVLVVYDPGAVVEAQTSVPYAIVGGILALLVFLIICVLVGMVWCSVRQKGSYLTHEASGLDEQGEAREAFLNGSDGHKRKEEFFI |
| 6555 | sp|Q9NZU7|CABP1\_HUMAN | MGGGDGAAFKRPGDGARLQRVLGLGSRREPRSLPAGGPAPRRTAPPPPGHASAGPAAMSSHIAKSESKTSLLKAAAAAASGGSRAPRHGPARDPGLPSRRLPGSCPATPQSSGDPSSRRPLCRPAPREEGARGSQRVLPQAHCRPREALPAAASRPSPSSPLPPARGRDGEERGLSPALGLRGSLRARGRGDSVPAAASEADPFLHRLRPMLSSAFGQDRSLRPEEIEELREAFREFDKDKDGYINCRDLGNCMRTMGYMPTEMELIELSQQINMNLGGHVDFDDFVELMGPKLLAETADMIGVKELRDAFREFDTNGDGEISTSELREAMRKLLGHQVGHRDIEEIIRDVDLNGDGRVDFEEFVRMMSR |
| 6556 | sp|O65782|C83B1\_ARATH | MDLLLIIAGLVAAAAFFFLRSTTKKSLRLPPGPKGLPIIGNLHQMEKFNPQHFLFRLSKLYGPIFTMKIGGRRLAVISSAELAKELLKTQDLNFTARPLLKGQQTMSYQGRELGFGQYTAYYREMRKMCMVNLFSPNRVASFRPVREEECQRMMDKIYKAADQSGTVDLSELLLSFTNCVVCRQAFGKRYNEYGTEMKRFIDILYETQALLGTLFFSDLFPYFGFLDNLTGLSARLKKAFKELDTYLQELLDETLDPNRPKQETESFIDLLMQIYKDQPFSIKFTHENVKAMILDIVVPGTDTAAAVVVWAMTYLIKYPEAMKKAQDEVRSVIGDKGYVSEEDIPNLPYLKAVIKESLRLEPVIPILLHRETIADAKIGGYDIPAKTIIQVNAWAVSRDTAAWGDNPNEFIPERFMNEHKGVDFKGQDFELLPFGSGRRMCPAMHLGIAMVEIPFANLLYKFDWSLPKGIKPEDIKMDVMTGLAMHKKEHLVLAPTKHI |
| 6557 | sp|P10148|CCL2\_MOUSE | MQVPVMLLGLLFTVAGWSIHVLAQPDAVNAPLTCCYSFTSKMIPMSRLESYKRITSSRCPKEAVVFVTKLKREVCADPKKEWVQTYIKNLDRNQMRSEPTTLFKTASALRSSAPLNVKLTRKSEANASTTFSTTTSSTSVGVTSVTVN |
| 6558 | sp|Q9VBW6|DAN\_DROME | MNIRMGTKGKRPLRSLTPRDKIHAIQRIHDGESKASVARDIGVPESTLRGWCKNEDKLRFMSRQSATDNLCADALGDKMDGGGGGGGGAGGGGLLGPPEKRQRLDGALPLNFSNKLKFDELAFKRSPLNGLDYSTNKNLADLGYNGLPVDYAAFNGGVKAKVFGADINRPAADPSLNAISPLSSLTHLSGLTGISQSPLAISFNELTTNLNLLAQLNPGLAAMSGLNSFPAGAGNLRTPKPSGQTPLQVQSPRSDSGDRSAQGLSVKNWAKQKPGEGQGSLNLSIKNEGKGGDIKSPSPSIAPSQMGGPMTLSNLAEDPLLYWLKSQQTMLGLNPLYPPTIPMGVTSPPIRSSTPQHMSQLAQTPPIPSAPLTPSSTPSGSLDEKNAAWYNWCKAFGASLHTLNPNAATLAALQANQLQQQVATTAAEGGSMGDPSNILYSHLTKETETPSVRSLSSNEQNPEADEATETDLDGEVEPEASGKPEDLSAAGKVMTPSQSPIAHSSGSRSPEPKAKTKTPETTNSTSECKKILDNMLFKMGGMEATGPLMPEQGSSESEGSFQDTSNPHTNNNDVSASNNNNNNNSNKTDEEEKAKYLDCTADEDIEAIRHGEKFLQWLENCSNPRVTAVQLMQLRFLIAAIKSGNETPMIEKSALPEDSEEHAAEEEGSGRGKSRRRK |
| 6559 | sp|Q58D31|DHSO\_BOVIN | MAAAKPENLSLVVHGPGDLRLENYPIPEPGPNEVLLKMHSVGICGSDVHYWQHGRIGDFVVKKPMVLGHEASGTVVKVGSLVRHLQPGDRVAIEPGAPRETDEFCKIGRYNLSPTIFFCATPPDDGNLCRFYKHNANFCYKLPDNVTFEEGALIEPLSVGIHACRRAGVTLGNKVLVCGAGPIGLVSLLAAKAMGAAQVVVTDLSASRLSKAKEVGADFILQISNESPQEIAKKVEGLLGSKPEVTIECTGVETSIQAGIYATHSGGTLVLVGLGSEMTSVPLVHAATREVDIKGVFRYCNTWPMAISMLASKSVNVKPLVTHRFPLEKALEAFETSKKGLGLKVMIKCDPNDQNP |
| 6560 | sp|P54265|DMPK\_MOUSE | MSAEVRLRQLQQLVLDPGFLGLEPLLDLLLGVHQELGASHLAQDKYVADFLQWVEPIAARLKEVRLQRDDFEILKVIGRGAFSEVAVVKMKQTGQVYAMKIMNKWDMLKRGEVSCFREERDVLVKGDRRWITQLHFAFQDENYLYLVMEYYVGGDLLTLLSKFGERIPAEMARFYLAEIVMAIDSVHRLGYVHRDIKPDNILLDRCGHIRLADFGSCLKLQPDGMVRSLVAVGTPDYLSPEILQAVGGGPGAGSYGPECDWWALGVFAYEMFYGQTPFYADSTAETYAKIVHYREHLSLPLADTVVPEEAQDLIRGLLCPAEIRLGRGGAGDFQKHPFFFGLDWEGLRDSVPPFTPDFEGATDTCNFDVVEDRLTAMVSGGGETLSDMQEDMPLGVRLPFVGYSYCCMAFRDNQVPDPTPMELEALQLPVSDLQGLDLQPPVSPPDQVAEEADLVAVPAPVAEAETTVTLQQLQEALEEEVLTRQSLSRELEAIRTANQNFSSQLQEAEVRNRDLEAHVRQLQERMEMLQAPGAAAITGVPSPRATDPPSHLDGPPAVAVGQCPLVGPGPMHRRHLLLPARIPRPGLSEARCLLLFAAALAAAATLGCTGLVAYTGGLTPVWCFPGATFAP |
| 6561 | sp|Q9XWN9|DMD3\_CAEEL | MNIEEILPELFGEKRVYYCQRCLNHGLREKRKNHKLSCTFRFCQCSNCIMVERRRQLNSRLMQIDGSRDEKPMTTLTMALTCSEEDQMECTSQSETTNESSGEDKDDGKPKERRPNCQRCAQHSVVNRLKGHKRACPFRDCFCAKCQVVVERQKLMADQIKLRRRQKREKNNLNSEREAPIAHSMTPSPIDTVTTTTTPTSETSTPMCLKCAQQVIGYQQLLSLLDPSATLQDPMITLSAVLSACPHKNE |
| 6562 | sp|P37573|DISA\_BACSU | MEKEKKGAKHELDLSSILQFVAPGTPLRAGMENVLRANTGGLIVVGYNDKVKEVVDGGFHINTAFSPAHLYELAKMDGAIILSDSGQKILYANTQLMPDATISSSETGMRHRTAERVAKQTGCLVIAISERRNVITLYQENMKYTLKDIGFILTKANQAIQTLEKYKTILDKTINALNALEFEELVTFSDVLSVMHRYEMVLRIKNEINMYIKELGTEGHLIKLQVIELITDMEEEAALFIKDYVKEKIKDPFVLLKELQDMSSYDLLDDSIVYKLLGYPASTNLDDYVLPRGYRLLNKIPRLPMPIVENVVEAFGVLPRIIEASAEELDEVEGIGEVRAQKIKKGLKRLQEKHYLDRQL |
| 6563 | sp|Q92988|DLX4\_HUMAN | MTSLPCPLPGRDASKAVFPDLAPVPSVAAAYPLGLSPTTAASPNLSYSRPYGHLLSYPYTEPANPGDSYLSCQQPAALSQPLCGPAEHPQELEADSEKPRLSPEPSERRPQAPAKKLRKPRTIYSSLQLQHLNQRFQHTQYLALPERAQLAAQLGLTQTQVKIWFQNKRSKYKKLLKQNSGGQEGDFPGRTFSVSPCSPPLPSLWDLPKAGTLPTSGYGNSFGAWYQHHSSDVLASPQMM |
| 6564 | sp|P20009|DLL\_DROME | MDAPDAPHTPKYMDGGNTAASVTPGINIPGKSAFVELQQHAAAGYGGIRSTYQHFGPQGGQDSGFPSPRSALGYPFPPMHQNSYSGYHLGSYAPPCASPPKDDFSISDKCEDSGLRVNGKGKKMRKPRTIYSSLQLQQLNRRFQRTQYLALPERAELAASLGLTQTQVKIWFQNRRSKYKKMMKAAQGPGTNSGMPLGGGGPNPGQHSPNQMHSGGNNGGGSNSGSPSHYLPPGHSPTPSSTPVSELSPEFPPTGLSPPTQAPWDQKPHWIDHKPPPQMTPQPPHPAATLHPQTHHHNPPPQMGGYVPQYWYQPETNPSLVTVWPAV |
| 6565 | sp|Q09013|DMPK\_HUMAN | MSAEVRLRRLQQLVLDPGFLGLEPLLDLLLGVHQELGASELAQDKYVADFLQWAEPIVVRLKEVRLQRDDFEILKVIGRGAFSEVAVVKMKQTGQVYAMKIMNKWDMLKRGEVSCFREERDVLVNGDRRWITQLHFAFQDENYLYLVMEYYVGGDLLTLLSKFGERIPAEMARFYLAEIVMAIDSVHRLGYVHRDIKPDNILLDRCGHIRLADFGSCLKLRADGTVRSLVAVGTPDYLSPEILQAVGGGPGTGSYGPECDWWALGVFAYEMFYGQTPFYADSTAETYGKIVHYKEHLSLPLVDEGVPEEARDFIQRLLCPPETRLGRGGAGDFRTHPFFFGLDWDGLRDSVPPFTPDFEGATDTCNFDLVEDGLTAMVSGGGETLSDIREGAPLGVHLPFVGYSYSCMALRDSEVPGPTPMELEAEQLLEPHVQAPSLEPSVSPQDETAEVAVPAAVPAAEAEAEVTLRELQEALEEEVLTRQSLSREMEAIRTDNQNFASQLREAEARNRDLEAHVRQLQERMELLQAEGATAVTGVPSPRATDPPSHLDGPPAVAVGQCPLVGPGPMHRRHLLLPARVPRPGLSEALSLLLFAVVLSRAAALGCIGLVAHAGQLTAVWRRPGAARAP |
| 6566 | sp|Q9TW65|DMD\_CAEEL | MLFSGASTAKPKKDEKKDKKSDRDPKNELQEWVFVRWANHLLGTERLTDYKSLQDGSNAIFVYQAIIGQTMAVLGNPSDDWPNVLQNIGDSKTNPQEVMEGQQKAVLSAWWQLVQFFWKNNAPVQLREEKLSEAIKQWCIEVMKSYEEIDVYDFTSSFRDGHAFNYLIHSYDRKLINLTKTAEMSAIDRIENAFAVAEKTWNVPRLLNPKDLHSDQLDSHSVLCYLMSLYLAMISTSKIETELEAQQIQQQKVAALLASHKMLSSQPSTSSSSALQIPPQTPPTAHHQAMLDRGKSFEQSAEGEVRSRKSSSSSQKSGKSKKARREEQLAEFKSCIEQVLTWLLEAEDELTTLTQMPRVELASVRSQFSDFESFMSSLTDSQDTVGRVLLRGQMLSNKSESEEEKESIGANLHLVNTRWEALREQAMQEQAVLQQQIHLLQQSELDTISQWLDAAELEIESFGPLAADSSQALRQIELHTKFQQKLNDFQETIDKLESFVAVVDEENDASVATLEDALSAVSVRWGHVCEWAEKRATKLDGLADLLDKTNEVFENLSGWLAERENELMTGLKSAHHLENEEQVAQQVRRLQKTEEQLEQEHASFVRLSQLSCELVGRLDDSNGAAANAVRLSLDSITQRWDNLVARIEEHGKTLVKSGKADVKQVQESQNEQKEQPASSEGLSTDTEGEEQKNQLVDKFLLHISKLSHELEPLQDWSEKFEVSRKKDDIRKMMNTCQEKLIQIKEQEARVNRLQLELEHLHVAKLNARQLKRANDAFEQFAKGWARIVTKISEAMNVLTGQEAGGNGNGSEEAAVAAKIEQWIEAVDKVINELSQLPVNERRSRIDKLEQQLQVQDKNVGFIEKDLLKKAILKKGLEIAGKRLAALKVEEKPVEKEEQLVLSNSEEPEAEKHVTFVQETTEKPAPLQEPTSEAQLLEELDGPWSRVGDVVAIEHDLLRAKRAVDTARNSQMSNETVEKAETRKAEMEEKRRVTMSARSKFRMAEETLEEIERNLDRLQVSDLEIADLVRGLEQEAAKLGERVSQRKEAERTAEKILSMDDDEISQEIVIKTKDSTEKLIKRWNQLELDLEENLRKAKRDQDVFIQKRLREGEEALNEIKTAIEGKRESLDAETAAENLDHLESSLDNISSLFGEIGSLPMDDNSREKLSKLAKAKDQITARANEALAALTRTVSECEDFEKQIMLFQNWSARIGFLLQARKSADISAFDIPHEYHEDLGNEAELIPKLSREFEEWTVKLNEMNSTATEKDDSARMREQLNHANETMAELKRKFNEFKRPKGFEEKLEKVITTLSNVEMGLDDTTGIDGSECGGALMEVRALVRMLDGAQEKWKDLAENREQLVKDRVLDEETSKETLQKLQYAKTKSKELYERSSTCIERLEDCVEMYQRLKMESDEIERFLEEMEGKLDQYAASDRPEEAEIVNELISEWNRNEAAMKNAEHLQRQLNERAIKIPDDVLSLKRLRADALKNRLNSWCRTIQEMSEDDESALLEIDELHQNLEKELKLVSDKEPSKIAEKLRFLRADRDRLSSRTRKLAAKNPRLAATSSDVLAGLNQKWKELEVKASAEKAPAPELRDARLSSPSEQPFDKRVQELCDLFENLEAQLDFNGSPVSMVTEYQKRVENLDEYLDEYRPALDDTIEEGRKIAETGRLELQTHSAIEKLDELTNRIEQVEVELDKHRDKVPSLVEQHEQLKKDIDSFLLVLDVFTDRNLDDVDIAKSTRKELAERDSHIVSLTSRATAIHCALPGKGPQLHDVTLDKLRDRIEKLEARLSATEKKPVETVKSTIPDRPEVPEEPEKSSPDRTSRSSLQLAMEAYGTATEDDSVISEAVTVGQKSVDQVDPVEQLEPVEPVEPKLEVKQLKDEATEEEEKRTIILPDETEKVIETIPAARPSAGPSEGTVAEVSTSEILKARPAQESIERTVREVPVDEYEETANISSGDELQDHKISSAVPDSESEIASMFEVLDSIEDSHTNFEEFPFDYLDSADDDLKKTLLKLESCEKTLAKNEMTINIAQAENARERITMLRQMALQRKDKLPKFNEEWNAMQELIQLADALVDEAERYESDQIPQMDRKSAPNVLGELRKRVANAEGPVIDLVKKLSQLVPRMQEDSPKSQDIRQKVYGIEDRFRRVGQAEGAAISKALSSALTEPELKLELDEVVRWCEMAEKEAAQNVNSLDGDGLEKLDGRLAQFTKELQERKDDMVQLEMAKNMIIPSLKGDAHHDLRRNFSDTAKRVAMVRDELSDAHKWVATSRDTCDTFWADIDSLEQLARDVVRRANGIRMAVIYTPSRENVEGVLRDVQRLKMSIGDVKKRVQTANLPPAIKLAGKNAKRVVQVLTETATTIADCHDIPTYLIDEMNDSGGDTTESRSTVVEMTSVHTKQSSSSSSNKTPSAGGESDDAHTLNGDDEQSEEDQKIYSRESSSTLPRGVSSLGSTGSSGVLDPVAVQLTHTRHWLHDVERDASITVDLAQWQPARELWQSIQGIIDEIRLRSVHVTGAHDASPNRQVRQQAAQLLTEMRRTIENCEKRCLILNQISDIARQNEASRNEMELWLKSASDVIGERRVEELSEEVVRQELQVLERVVEQLTERKDKMAEINSQANKIVDTYTKDEAHNLSHLLSRLNMSWTKFNDNIRIRRAVLEASLRSRRDFHSALSEFEKWLSRQEDNCSKLSADTSNHQAIKDTSKRKNWTQSFKTLNAELNAHEDVMKSVEKMGKMLAESLESGNEKVELLKRVGETTRRWTALRKTTNEIGERLEKAEQEWEKLSDGLADLLSWVEAKKQAIMDEQPTGGSLSAVMQQASFVKGLQREIESKTANYKSTVEEAHSFLMQHDLRPKLHSPHVLDDDYEKEELANLEQRRRGLEINANCERLKKNWAELGIEVESWDKLVQHAMQRLQELERNLAECQLHLTSSENEIETMKAVEKIHLEDLKIAREETDQISKRIDEVRLFVDDVNDAAARLLAEDLKLDEHAKGQIEHVNKRYSTLKRAIRIRQAAVRNAASDFGPTSEHFLNQSVTLPWQRAISKSNLLPYYIEQTSEKTQWEHPVWVEIVKELSQFNRVKFLAYRTAMKLRALQKRLCLDLVDLTLLEKAFVRLKGLSAEECPGLEGMVCALLPMYEALHAKYPNQVQSVSLAVDICINFLLNLFDQSRDGIMRVLSFKIAMIVFSNIPLEEKYRYLFKLVSQDGHATQKQIALLLYDLIHIPRLVGESAAFGGTNVEPSVRSCFETVRLAPTISEGAFIDWVKKEPQSIVWLAVMHRLVISESTKHASKCNVCKMFPIIGIRYRCLTCFNCDLCQNCFFSQRTAKSHRTNHPMQEYCEKTTSSDDARDFAKMIRNKFRASKRQKGYLPIDVAEEGIPLTCPPAKVTNQATEQMNADTSQMTAHLAKLSAEHGGGAEHMEPVQSPLQIINQVEQLQRDEMDQMLHRLQFENKQLRKELEWKRGAASTMEIDRSSKRHQERHQSESRGGTLPLRNGRSVVSLKSTQSQNDVMDEAKALRLHKQRLEHRSRILEQQNEQLEMQLQRLKKVIDAQKQQAPLSTNSLLRGSHHQPWSPERARSGSASTLDRGLIVSSRHQEQAEAAGGGAEDSSDEAGGAGGGPRGSSVGQMQNLMTACDDLGKAMESLVVSVVYDSDDEEND |
| 6567 | sp|Q55F94|DLPA\_DICDI | MSVFKKKDKSDDKKKKHDEETPQGTFQPASQSTSNTNLNSLASSVNNGASVGSTNGSTPNNSNGSTPTYNHNNSAEELEKQKKEEDEKRKKSELEAAAAVVAKKKEDEEKQRKEQVELERKRRDEEIRRTNAAAANAANKELNEQVEISSLEQMGKLDPSSTIHDMFSFFPNEVYNSYEKLQYFSRDLNTAVSHPEIVFVGPRSSGKSSLIEAFIGRALNIVGGGNIVGVGGSNANGCSKRVLYLQFTNNIDFEVPKVTIKKDNTIKEFDHDIIVSIEQLNENLAKRNQLTNDYIEEPIYVSIESRTTLNLTLIDSPGLLFDQSQAESNKIESIVSSLLRPSHRLIIAVESCSQDWKSMSMGQYLKKIDPELSRSTFVFTKFHHTVRGFSSTRDINKYLSGTVPDIKGFFVTLPNHQVRASYSEANRFQEKIYQAHKRDMHALEQLQYDKRYERTIGVAPLRRYILNIVWKSYQDTIPRILKHLRSKRQTAEATLNELQKQSSSLDSTKLRSIASNYTVTFLQITEKLLSGTSEGNPSANGQTLDEEKSQQGDCGEWVDAYKEAIYIDPEEWNIPYWSSKLYGGQQLERLMAEFKAVCDNSKISEVKMDDIATASGINKLNNIPNYAWAASDLTSLISRDTFVPLIEQLCERAMYIMKRLTDIADKVIDSRRKSRCIGSSPFGGNGLNNINSGGNNGININDRLSNTDMDSLDQYPFFTHHVKNLYYDFVHRAAKGCKEKCMDEFYSSRTIYWELTEHPDSSLPSIRNDHHETKTAVCQLATKLFDSIRQRITKNVLLKLYNFFLVPMQTDLWNEIQAQITCLSNEQLEQLFEVQATREQLKQEEKKQQQILEKYSQIDEQFLKAASLFCRPLSNPTPSA |
| 6568 | sp|P46681|DLD2\_YEAST | MLRNILVRSTGSNFKFAGRYMKSSALLGYYRRVNYYSTKIQTRLTSENYPDVHRDPRFKKLTSDDLNYFKSILSEQEILRASESEDLSFYNEDWMRKYKGQSKLVLRPKSVEKVSLILNYCNDEKIAVVPQGGNTGLVGGSVPIFDELILSLANLNKIRDFDPVSGILKCDAGVILENANNYVMEQNYMFPLDLGAKGSCHVGGVVATNAGGLRLLRYGSLHGSVLGLEVVMPNGQIVNSMHSMRKDNTGYDLKQLFIGSEGTIGIITGVSILTVPKPKAFNVSYLSVESFEDVQKVFVRARQELSEILSAFEFMDAKSQVLAKSQLKDAAFPLEDEHPFYILIETSGSNKDHDDSKLETFLENVMEEGIVTDGVVAQDETELQNLWKWREMIPEASQANGGVYKYDVSLPLKDLYSLVEATNARLSEAELVGDSPKPVVGAIGYGHVGDGNLHLNVAVREYNKNIEKTLEPFVYEFVSSKHGSVSAEHGLGFQKKNYIGYSKSPEEVKMMKDLKVHYDPNGILNPYKYI |
| 6569 | sp|O96015|DNAL4\_HUMAN | MGETEGKKDEADYKRLQTFPLVRHSDMPEEMRVETMELCVTACEKFSNNNESAAKMIKETMDKKFGSSWHVVIGEGFGFEITHEVKNLLYLYFGGTLAVCVWKCS |
| 6570 | sp|A0LU48|DOP\_ACIC1 | MHRVMGIETEYGISVPHQPNANAMAASSQVVNAYAPIGAPAQRQARWDFEEENPLRDARGFEVAREAADPSQLTDEDLGLANVILTNGARLYVDHAHPEYSTPEVTNPRDAVLWDKAGERIMAEAARRAADLPMGWTIQLYKNNTDNKGASYGCHENYLMNRSTPFADIVRHLIPFFVTRQVFCGAGRVGIGADGRGEGFQLSQRADFFEVEVGLETTLKRPIINTRDEPHADPEKYRRLHVIIGDANMSEIATYLKLGTTALVLAMIEDGFLSQDFSVESPVGALRAVSHDPTLRYQLRLHDGRRLTAVQLQMEYLEQARKYVEDRFGTDVDDMTRDVLDRWETTLVRLADDPMQLSRDLDWVAKLSILEGYRQRENLPWSAHKLQLVDLQYHDVRPDRGLYNRLVARGRMNLLVDEAAVRTAMHEPPNDTRAYFRGRCLAKFGAEIAAASWDSVIFDLPGRDSLQRVPTLEPLRGTRAHVGDLLDRCRSATELVAALTGGR |
| 6571 | sp|Q8N5I4|DHRSX\_HUMAN | MSPLSAARAALRVYAVGAAVILAQLLRRCRGGFLEPVFPPRPDRVAIVTGGTDGIGYSTAKHLARLGMHVIIAGNNDSKAKQVVSKIKEETLNDKVEFLYCDLASMTSIRQFVQKFKMKKIPLHVLINNAGVMMVPQRKTRDGFEEHFGLNYLGHFLLTNLLLDTLKESGSPGHSARVVTVSSATHYVAELNMDDLQSSACYSPHAAYAQSKLALVLFTYHLQRLLAAEGSHVTANVVDPGVVNTDVYKHVFWATRLAKKLLGWLLFKTPDEGAWTSIYAAVTPELEGVGGHYLYNEKETKSLHVTYNQKLQQQLWSKSCEMTGVLDVTL |
| 6572 | sp|Q91ZU6|DYST\_MOUSE | MAGYLSPAAYMYVEEQEYLQAYEDVLERYKDERDKVQKKTFTKWINQHLMKVRKHVNDLYEDLRDGHNLISLLEVLSGDTLPREKGRMRFHRLQNVQIALDYLKRRQVKLVNIRNDDITDGNPKLTLGLIWTIILHFQISDIHVTGESEDMSAKERLLLWTQQATEGYAGVRCENFTTCWRDGKLFNAIIHKYRPDLIDMNTVAVQSNLANLEHAFYVAEKIGVIRLLDPEDVDVSSPDEKSVITYVSSLYDAFPKVPEGGEGIGANDVEVKWIEYQNMVNYLIQWIRHHVVTMSERTFPNNPLELKALYNQYLQFKEKEIPPKEMEKSKIKRLYKLLEIWIEFGRIKLLQGYHPNDIEKEWGKLIIAMLEREKALRPEVERLDMLQQIATRVQRDSVSCEDKLILARNALQSDSKRLESGVQFQNEAEIAGYILECENLLRQHVIDVQILIDGKYYQADQLVQRVAKLRDEIMALRNECSSVYSKGRMLTTEQTKLMISGITQSLNSGFAQTLHPSLNSGLTQSLTPSLTSSSVTSGLSSGMTSRLTPSVTPVYAPGFPSVVAPNFSLGVEPNSLQTLKLMQIRKPLLKSSLLDQNLTEEEVNMKFVQDLLNWVDEMQVQLDRTEWGSDLPSVESHLENHKNVHRAIEEFESSLKEAKISEIQMTAPLKLSYTDKLHRLESQYAKLLNTSRNQERHLDTLHNFVTRATNELIWLNEKEESEVAYDWSERNSSVARKKSYHAELMRELEQKEESIKAVQEIAEQLLLENHPARLTIEAYRAAMQTQWSWILQLCQCVEQHIQENSAYFEFFNDAKEATDYLRNLKDAIQRKYSCDRSSSIHKLEDLVQESMEKEELLQYRSVVAGLMGRAKTVVQLKPRNPDNPLKTSIPIKAICDYRQIEITIYKDDECVLANNSHRAKWKVISPTGNEAMVPSVCFTVPPPNKEAVDFANRIEQQYQSVLTLWHESHINMKSVVSWHYLVNEIDRIRASNVASIKTMLPGEHQQVLSNLQSRLEDFLEDSQESQIFSGSDISQLEKEVSVCRKYYQELLKSAEREEQEESVYNLYISEVRNIRLRLESCEDRLIRQIRTPLERDDLHESMLRITEQEKLKKELDRLKDDLGTITNKCEEFFSQAADSPSVPALRSELSVVIQSLSQIYSMSSTYIEKLKTVNLVLKNTQAAEALVKLYETKLCEEEAVIADKNNIENLMSTLKQWRSEVDEKREVFHALEDELQKAKAISDEMFKTHKERDLDFDWHKEKADQLVERWQSVHVQIDNRLRDLEGIGKSLKHYRDSYHPLDDWIQHIETTQRKIQENQPENSKALALQLNQQKMLVSEIEVKQSKMDECQKYSEQYSAAVKDYELQTMTYRAMVESQQKSPVKRRRIQSSADLVIQEFMDLRTRYTALVTLMTQYIKFAGDSLKRLEEEEKSLDEEKKQHIEKAKELQKWVSNISKTLGDGEKAGKPLFSKQQMSSKEISTKKEQFSEALQTTQIFLAKHGDKLTEEERSDLEKQVKTLQEGYNLLFSESLKQQELQPSGESKVPEKPDKVIAGTINQTTGEVLSVFQAVLRGLIDYETGIRLLEAQLVITGLISPELRKCFDLRDAESHGLIDEQVLRQLKELNRAKQLISTASPTSIPVLDSLAQGMVSESMAIRVLEILLSAGPLLVPATGEHLTLQQAFQQNLISSALFSKVLERQDTCKDLIDPCTSEKVSLTDMVQRSILQENTRMWLLPVRPQEAGRITLKCGRSVSILRAAHEGLIDRETMFRLLGAQLLSGGLIDCNSGQKMTVEEAVAEGVIDRDTASSILTYQVQTGGIVHSNPAKRLTVDEAVQCELITSSSALLVLEAQRGYVGLIWPHSGEIFPTSSSLQQELITNELASKILNGRQKIAALYIPESSQVIGLDAAKQLGIIDNNTASVLKSVTLPDKMPDLGDLEDCKNAKRWLSFCKLQPSTVHDYRQEEGGSDGEEPVTAQSSEQTKKLFLSYLMVNSYMDAHTGQRLLLYDGDLDEAVGMLLESCGTELGADTSTRESLSVLTIPDAFPDCALSEEKHECSAAAAGPDKCHYSHPGHKESLENAKWDMNEAFCKMGNNDSNGELPRPENLADTTVVQKGSESPSRVRVPKPTSSSTQPEGSVLRPESGSILKGCKSQSEPVTKKYPDGANHSHFLTSETSRPCDSNEREDEENIQKGPSVFDYSPRLSALLSHDELRQSQGRFSDTSTPQNTGYLCEASTLSPSDQRVLADQSTREKFQDQFLGIAAISVSLQGAPCGQKPVDTECSSSQVHYHSEESMSDASAESGATRQTDESEKTGSKVEDNSCTMVPGGGSRNDNTSDCGPLSHKGAIDAGDYETSLLAGQQSDTATDSDSDDYFYDTPLFEDEDHDSLILQGDDRDCLQPEDYDTSLQEENDRTPPPDDIFYDVMKEKENPEFPHGGMDESLGVENKVCCPQGFPVGIEKPELYLAGEKEFNSGGSEQLVESVSESENPPGLWDSESDSLTEGEIIGRKERLGASLTPDGHWRGDREECDTSRESQSDTDGVGSIQSSESYRPYMSDGSDLDEEDNGGRSSEDSGDGRGGQGVADEGGEPQYQADPTQLYTAIRKEHGGETQNVSDMIPLDKTHSYSPLETQHGAGVFQPESAGRGGWDTERSSHPELTTEADEEDEASLSTHMATKGVSLSNAEGTASEEIRLVQGPDSTGILKAEDLENVSPEISPSSDNIVRSEAELGGGASEDGHLSFTGSDRDQQGPGRGLVKGRDGQSDKLVDETSIREMGFQKEGVLMSSPEEGGEEERDLEPFPNGSATESLNMGKSQVPPLLTHTEELSHRGAPHTTTMTTTMTLEGEAKNVQTGLTESPVLLETLAEIFDTPASKVTRADLTSAVTASEMKSQVKEDSLTGGPEKETGPCTSLGHCDKCIHVDMLEPNEHTPSCALVAPPTVKDNLCSVNNAGEKSVRPQEDWPPAAEVRLSDACVEESISEGKAGILQFTPENSDSTLSRLPHQSVAGWGKSADSVQARLPVSGVRHTSADTLDVGCPQLESSREKASAEEEPHRERALSLKPQEREHHMLGFVEDGRSILKSSLDKVHMNLQEVGDPSAGTGTKISIQNLIRRAILSELPNEVSNVPSHGISPISNSSEVRAESGGDPFCITSFLHLLKQNQPPQETPGISELAKVLTQMDCDPEQRGLGSELLPPQLKNAFYKLLFDGYATEKDQAEALGQTSCAVPKMAEEKPHVCSDLRNKEGHHCPLNPQAVGEAEVEPFSVHIAALPGGEKLGELCSEPPEHSESTSGSKERSSDSSSKEKCSNGLQQCLQHTEKMHEYLVLLQDMKPPLDNQASVESSLEALKSQLKQLEAFELGLAPIAVFLRKDLKLAEEFLKSFPSDLPRRHHEELSKSHQRLQNAFSSLSSVSSERMKLIKLAINSEMSKLAVRHEDFLHKLTSYSDWVSEKSRSVKAIQTVNVQDTELVKNSVKFLKNVLADLSHTKMQLETTAFDVQSFISDYAQDLSPSQSRQLLRLLNTTQKGFLDLQELVTTEADRLEALLQLEQELGHQKVVAERQQEYREKLQGLCDLLTQTENRLISNQEAFVIGDGTVELQKYQSKQEELQRDMQGSTQAMEEIVRNTELFLKESGDELSQADRALIEQKLNEVKMKCAQLNLKAEQSRKELDKAVTTALKEETEKVAAVRQLEESKTKIENLLNWLSNVEEDSEGVWTKHTQPMEQNGTYLHEGDSKLGAGEEDEVNGNLLETDAEGHSEATKGNLNQQYEKVKAQHGKIMAQHQAVLLATQSAQVLLEKQGHYLSPEEKEKLQKNTQELKVHYEKVLAECEKKVKLTHSLQEELEKFDTDYSEFEHWLQQSEQELANLEAGADDLSGLMDKLTRQKSFSEDVISHKGDLRYITISGNRVIDAAKSCSKRDSDRIGKDSVETSATHREVQTKLDQVTDRFRSLYSKCSVLGNNLKDLVDQYQQYEDASCGLLSGLQACEAKASKHLREPIALDPKNLQRQLEETKALQGQISSQQVAVEKLKKTAEVLLDAKGSLLPAKNDIQKTLDDIVGRYDDLSKCVNERNEKLQITLTRSLSVQDALDEMLDWMGSVESSLVKPGQVPLNSTALQDLISKDTMLEQDITGRQSSINAMNEKVKTFIETTDPSTASSLQAKMKDLSARFSEASQKHKEKLAKMVELKAKVEQFEKLSDKLQTFLETQSQALTEVAMPGKDVPELSQHMQESTAKFLEHRKDLEALHSLLKEISSHGLPGDKALVFEKTNNLSRKFKEMEDTIQEKKDALSSCQEQLSAFQTLAQSLKTWIKETTKQVPVVKPSLGTEDLRKSLEETKKLQEKWNLKAPEIHKANNSGVSLCNLLSALISPAKAIAAAKSGGVILNGEGTDTNTQDFLANKGLTSIKKDMTDISHSYEDLGLLLKDKIVELNTKLSKLQKAQEESSAMMQWLEKMNKTASRWRQTPTPADTESVKLQVEQNKSFEAELKQNVNKVQELKDKLSELLEENPEAPEAQSWKQALAEMDTKWQELNQLTMDRQQKLEESSNNLTQFQTTEAQLKQWLMEKELMVSVLGPLSIDPNMLNTQKQQVQILLQEFDTRKPQYEQLTAAGQGILSRPGEDPSLHGIVNEQLEAVTQKWDNLTGQLRDRCDWIDQAIVKSTQYQSLLRSLSGTLTELDDKLSSGLTSGALPDAVNQQLEAAQRLKQEIEQQAPKIKEAQEVCEDLSALVKEEYLKAELSRQLEGILKSFKDIEQKTENHVQHLQSACASSHQFQQMSKDFQAWLDAKKEEQRDSPPISAKLDVLESLLNSQKDFGKTFTEQSNIYEKTISEGENLLLKTQGAEKAALQLQLNTMKTDWDRFRKQVKEREEKLKDSLEKALKYREQVETLRPWIDRCQHSLDGVTFSLDPTESESSIAELKSLQKEMDHHFGMLELLNNTANSLLSVCEVDKEAVTEENQSLMEKVNRVTEQLQSKTVSLENMAQKFKEFQEVSRDTQRQLQDTKEQLEVHHSLGPQAYSNKHLSVLQAQQKSLQTLKQQVDEAKRLAQDLVVEAADSKGTSDVLLQAETLAEEHSELSQQVDEKCSFLETKLQGLGHFQNTIREMFSQFTECDDELDGMAPVGRDAETLRKQKACMQTFLKKLEALMASNDSANRTCKMMLATEETSPDLIGVKRDLEALSKQCNKLLDRAKTREEQVDGATEKLEEFHRKLEEFSTLLQKAEEHEESQGPVGTETETINQQLDVFKVFQKEEIEPLQVKQQDVNWLGQGLIQSAAANTCTQGLEHDLDSVNSRWKTLNKKVAQRTSQLQEALLHCGRFQDALESLLSWMADTEELVANQKPPSAEFKVVKAQIQEQKLLQRLLEDRKSTVEVIKREGEKIAASAEPADRVKLTRQLSLLDSRWEALLSRAEARNRQLEGISVVAQEFHETLEPLNEWLTAVEKKLANSEPIGTQAPKLEEQISQHKALQEDILLRKQSVDQALLNGLELLKQTTGDEVLIIQDKLEAIKARYKDITKLSADVAKTLEHALQLAGQLQSMHKELCNWLDKVEVELLSYETQGLKGEAASQVQERQKELKNEVRSNKALVDSLNEVSSALLELVPWRAREGLEKTIAEDNERYRLVSDTITQKVEEIDAAILRSQQFEQAADAELSWITETQKKLMSLGDIRLEQDQTSAQLQVQKAFTMDILRHKDIIDELVTSGHKIMTTSSEEEKQSMKKKLDKVLKKYDAVCQINSERHLQLERAQSLVSQFWETYEELWPWLTETQRIISQLPAPALEYETLRRQQEEHRQLRELIAEHKPHIDKMNKTGPQLLELSPKEGIYIQEKYVAADTLYSQIKEDVKKRAVVLDEAISQSTQFHDKIDQILESLERIAERLRQPPSISAEVEKIKEQIGENKSVSVDMEKLQPLYETLRQRGEEMIARSEGTEKDVSARAVQDKLDQMVFIWGSIHTLVEEREAKLLDVMELAEKFWCDHMSLVVTIKDTQDFIRDLEDPGIDPSVVKQQQEAAEAIREEIDGLQEELDMVITLGSELIAACGEPDKPIVKKSIDELNSAWDSLNKAWKDRVDRLEEAMQAAVQYQDGLQGIFDWVDIAGNKLATMSPIGTDLETVKQQIEELKQFKSEAYQQQIEMERLNHQAELLLKKVTEEADKHTVQDPLMELKLIWDSLDERIVSRQHKLEGALLALGQFQHALDELLAWLTHTKGLLSEQKPVGGDPKAIEIELAKHHVLQNDVLAHQSTVEAVNKAGNDLIESSEGEEASNLQYKLRILNQRWQDILEKTDQRKQQLDSALRQAKGFHGEIEDLQQWLTDTERHLLASKPLGGLPETAKEQLNAHMEVCTAFAIKEETYKSLMLRGQQMLARCPRSAETNIDQDITNLKEKWESVKSKLNEKKTKLEEALHLAMNFHNSLQDFINWLTQAEQTLNVASRPSLILDTILFQIDEHKVFANEVNSHREQIIELDKTGTHLKYFSQKQDVVLIKNLLISVQSRWEKVVQRLVERGRSLDEARKRAKQFHEAWSKLMEWLEESEKSLDSELEIANDPDKIKAQLVQHKEFQKSLGGKHSVYDTTNRTGRSLKEKTSLADDNLKLDNMLSELRDKWDTICGKSVERQNKLEEALLFSGQFTDALQALIDWLYRVEPQLAEDQPVHGDIDLVMNLIDNHKVFQKELGKRTSSVQALKRSARELIEGSRDDSSWVRVQMQELSTRWETVCALSISKQTRLESALQQAEEFHSVVHTLLEWLAEAEQTLRFHGALPDDEDALRTLIEQHKEFMKRLEEKRAELSKATGMGDALLAVCHPDSITTIKHWITIIQARFEEVLAWAKQHQQRLAGALAGLIAKQELLETLLAWLQWAETTLTEKDKEVIPQEIEEVKTLIAEHQTFMEEMTRKQPDVDKVTKTYKRRATDPPSLQSHIPVLDKGRAGRKRFPASGFYPSGSQTQIETKNPRVNLLVSKWQQVWLLALERRRKLNDALDRLEELREFANFDFDIWRKKYMRWMNHKKSRVMDFFRRIDKDQDGKITRQEFIDGILSSKFPTSRLEMSAVADIFDRDGDGYIDYYEFVAALHPNKDAYKPITDADKIEDEVTRQVAKCKCAKRFQVEQIGDNKYRFFLGNQFGDSQQLRLVRILRSTVMVRVGGGWMALDEFLVKNDPCRVHHHGSKMLRSESNSSITATQPTLAKGRTNMELREKFILADGASQGMAAFRPRGRRSRPSSRGASPNRSTSASSHACQAASPPVPAAASTPKGTPIQGSKLRLPGYLSGKGFHSGEDSALITTAAARVRTQFAESRKTPSRPGSRAGSKAGSRASSRRGSDASDFDISEIQSVCSDVETVPQTHRPVPRAGSRPSTAKPSKIPTPQRRSPASKLDKSSKR |
| 6573 | sp|P32471|EF1B\_YEAST | MASTDFSKIETLKQLNASLADKSYIEGTAVSQADVTVFKAFQSAYPEFSRWFNHIASKADEFDSFPAASAAAAEEEEDDDVDLFGSDDEEADAEAEKLKAERIAAYNAKKAAKPAKPAAKSIVTLDVKPWDDETNLEEMVANVKAIEMEGLTWGAHQFIPIGFGIKKLQINCVVEDDKVSLDDLQQSIEEDEDHVQSTDIAAMQKL |
| 6574 | sp|P70694|DHB5\_MOUSE | MDSKQQTVRLSDGHFIPILGFGTYAPQEVPKSKATEATKIAIDAGFRHIDSASMYQNEKEVGLAIRSKIADGTVKREDIFYTSKVWCTFHRPELVRVCLEQSLKQLQLDYVDLYLIHFPMAMKPGENYLPKDENGKLIYDAVDICDTWEAMEKCKDAGLAKSIGVSNFNRRQLEKILKKPGLKYKPVCNQVECHPYLNQGKLLDFCRSKDIVLVAYSALGSHREKQWVDQSSPVLLDNPVLGSMAKKYNRTPALIALRYQLQRGVVVLAKSFSEKRIKENMQVFEFQLTSEDMKVLDDLNKNIRYISGSSFKDHPDFPFWDEY |
| 6575 | sp|O89000|DPYD\_RAT | MAGVLSRDAPDIESILALNPRIQAHATLRSTMAKKLDKKHWKRNTDKNCFICEKLENNFDDIKHTTLGERGALREAVRCLKCADAPCQKSCPTSLDIKSFITSIANKNYYGAAKLIFSDNPLGLTCGMVCPTSDLCVGGCNLHATEEGPINIGGLQQFATEVFKAMNIPQIRSPLLPPPEHMPEAYSAKIALFGAGPASISCASFLARLGYSDITIFEKQEYVGGLSTSEIPQFRLPYDVVNFEIELMKDLGVKIICGKSISTDEMTLSTLKENGYKAAFIGIGLPEPKKDHIFQGLTQVQGFYTSKDFLPLVAKGSKPGMCACHSPLPSVRGAVIVLGAGDTAFDCATSALRCGARRVFIVFRKGFANIRAVPEEMELAKEEKCEFLPFLSPRKVIVKDGKIVGMQFVRTEQDETGNWVEDEEQIVRLKADVVISPFGSVLDDPKVIEALSPIKFNRWGLPEVNPETMQTSEPWVFAGGDVVGMANTTVESVNDGKQASWYIHEYIQAQYGALVPSQPTLPLFYTPVDLVDISVEMAGLRFPNPFGLASATPATSTPMIRRAFEAGWGFALTKTFSLDKDIVTNVSPRIIRGTTSGPLYGPGQSSFLNIELISEKTAAYWCHSVTELKADFPDNILIASIMCSYNKNDWMELSKMAEASGADALELNLSCPHGMGERGMGLACGQDPELVRNICRWVRQSVRVPFFAKLTPNVTDIVSIARAAKEGGADGVTATNTVSGLMGLKADGSPWPSVGSGKRTTYGGVSGTTIRPIALRAVTAIARALPGFPILATGGIDSAESGLQFLHSGASVLQVCSAIQNQDFTVIEDYCTGLKALLYLKSIEELSDWDGQSPPTMSHQKGKPVPHIAELMGQKLPSFGPYLERRKKILAASKIRENDQNRACSPLQRKHFNSQKPIPAIKDVIGKSLQYLGTFGELNIMEQVVALIDEEMCINCGKCYMTCNDSGYQAIQFDPETHLPTVSDTCTGCTLCLSVCPIMDCIRMVSRATPYEPKRGLPLAVKPVC |
| 6576 | sp|Q61502|E2F5\_MOUSE | MAAAEPTSSAQPTPQAQAQPPPHGAPSSQPSAALAGGSSRHEKSLGLLTTKFVSLLQEAQDGVLDLKAAADTLAVRQKRRIYDITNVLEGIDLIEKKSKNSIQWKGVGAGCNTKEVIDRLRCLKAEIEDLELKERELDQQKLWLQQSIKNVMEDSINNRFSYVTHEDICNCFHGDTLLAIQAPSGTQLEVPIPEMGQNGQKKYQINLKSHSGPIHVLLINKESSSSKPVVFPVPPPDDLTQPSSQSSTSVTPQKSTMAAQNLPEQHVSERSQTFQQTPAAEVSSGSISGDIIDELMSSDVFPLLRLSPTPADDYNFNLDDNEGVCDLFDVQILNY |
| 6577 | sp|P49005|DPOD2\_HUMAN | MFSEQAAQRAHTLLSPPSANNATFARVPVATYTNSSQPFRLGERSFSRQYAHIYATRLIQMRPFLENRAQQHWGSGVGVKKLCELQPEEKCCVVGTLFKAMPLQPSILREVSEEHNLLPQPPRSKYIHPDDELVLEDELQRIKLKGTIDVSKLVTGTVLAVFGSVRDDGKFLVEDYCFADLAPQKPAPPLDTDRFVLLVSGLGLGGGGGESLLGTQLLVDVVTGQLGDEGEQCSAAHVSRVILAGNLLSHSTQSRDSINKAKYLTKKTQAASVEAVKMLDEILLQLSASVPVDVMPGEFDPTNYTLPQQPLHPCMFPLATAYSTLQLVTNPYQATIDGVRFLGTSGQNVSDIFRYSSMEDHLEILEWTLRVRHISPTAPDTLGCYPFYKTDPFIFPECPHVYFCGNTPSFGSKIIRGPEDQTVLLVTVPDFSATQTACLVNLRSLACQPISFSGFGAEDDDLGGLGLGP |
| 6578 | sp|Q6XUX3|DUSTY\_HUMAN | MEGDGVPWGSEPVSGPGPGGGGMIRELCRGFGRYRRYLGRLRQNLRETQKFFRDIKCSHNHTCLSSLTGGGGAERGPAGDVAETGLQAGQLSCISFPPKEEKYLQQIVDCLPCILILGQDCNVKCQLLNLLLGVQVLPTTKLGSEESCKLRRLRFTYGTQTRVSLALPGQYELVHTLVAHQGNWETIPEEDLEVQENNEDAAHVLAELEVTMHHALLQEVDVVVAPCQGLRPTVDVLGDLVNDFLPVITYALHKDELSERDEQELQEIRKYFSFPVFFFKVPKLGSEIIDSSTRRMESERSPLYRQLIDLGYLSSSHWNCGAPGQDTKAQSMLVEQSEKLRHLSTFSHQVLQTRLVDAAKALNLVHCHCLDIFINQAFDMQRDLQITPKRLEYTRKKENELYESLMNIANRKQEEMKDMIVETLNTMKEELLDDATNMEFKDVIVPENGEPVGTREIKCCIRQIQELIISRLNQAVANKLISSVDYLRESFVGTLERCLQSLEKSQDVSVHITSNYLKQILNAAYHVEVTFHSGSSVTRMLWEQIKQIIQRITWVSPPAITLEWKRKVAQEAIESLSASKLAKSICSQFRTRLNSSHEAFAASLRQLEAGHSGRLEKTEDLWLRVRKDHAPRLARLSLESCSLQDVLLHRKPKLGQELGRGQYGVVYLCDNWGGHFPCALKSVVPPDEKHWNDLALEFHYMRSLPKHERLVDLHGSVIDYNYGGGSSIAVLLIMERLHRDLYTGLKAGLTLETRLQIALDVVEGIRFLHSQGLVHRDIKLKNVLLDKQNRAKITDLGFCKPEAMMSGSIVGTPIHMAPELFTGKYDNSVDVYAFGILFWYICSGSVKLPEAFERCASKDHLWNNVRRGARPERLPVFDEECWQLMEACWDGDPLKRPLLGIVQPMLQGIMNRLCKSNSEQPNRGLDDST |
| 6579 | sp|Q02647|DYL1\_YEAST | MSDENKSTPIVKASDITDKLKEDILTISKDALDKYQLERDIAGTVKKQLDVKYGNTWHVIVGKNFGSYVTHEKGHFVYFYIGPLAFLVFKTA |
| 6580 | sp|Q9ST48|DWRF8\_MAIZE | MKREYQDAGGSGGDMGSSKDKMMAAAAGAGEQEEEDVDELLAALGYKVRSSDMADVAQKLEQLEMAMGMGGVGGAGATADDGFVSHLATDTVHYNPSDLSSWVESMLSELNAPPAPLPPATPAPRLASTSSTVTSGAAAGAGYFDLPPAVDSSSSTYALKPIPSPVAAPSADPSTDSAREPKRMRTGGGSTSSSSSSSSSMDGGRTRSSVVEAAPPATQASAAANGPAVPVVVVDTQEAGIRLVHALLACAEAVQQENFSAAEALVKQIPMLASSQGGAMRKVAAYFGEALARRVYRFRPPPDSSLLDAAFADLLHAHFYESCPYLKFAHFTANQAILEAFAGCRRVHVVDFGIKQGMQWPALLQALALRPGGPPSFRLTGVGPPQPDETDALQQVGWKLAQFAHTIRVDFQYRGLVAATLADLEPFMLQPEGDDTDDEPEVIAVNSVFELHRLLAQPGALEKVLGTVRAVRPRIVTVVEQEANHNSGTFLDRFTESLHYYSTMFDSLEGAGAGSGQSTDASPAAAGGTDQVMSEVYLGRQICNVVACEGAERTERHETLGQWRSRLGGSGFAPVHLGSNAYKQASTLLALFAGGDGYRVEEKDGCLTLGWHTRPLIATSAWRVAAAAAP |
| 6581 | sp|Q7Z5Q5|DPOLN\_HUMAN | MENYEALVGFDLCNTPLSSVAQKIMSAMHSGDLVDSKTWGKSTETMEVINKSSVKYSVQLEDRKTQSPEKKDLKSLRSQTSRGSAKLSPQSFSVRLTDQLSADQKQKSISSLTLSSCLIPQYNQEASVLQKKGHKRKHFLMENINNENKGSINLKRKHITYNNLSEKTSKQMALEEDTDDAEGYLNSGNSGALKKHFCDIRHLDDWAKSQLIEMLKQAAALVITVMYTDGSTQLGADQTPVSSVRGIVVLVKRQAEGGHGCPDAPACGPVLEGFVSDDPCIYIQIEHSAIWDQEQEAHQQFARNVLFQTMKCKCPVICFNAKDFVRIVLQFFGNDGSWKHVADFIGLDPRIAAWLIDPSDATPSFEDLVEKYCEKSITVKVNSTYGNSSRNIVNQNVRENLKTLYRLTMDLCSKLKDYGLWQLFRTLELPLIPILAVMESHAIQVNKEEMEKTSALLGARLKELEQEAHFVAGERFLITSNNQLREILFGKLKLHLLSQRNSLPRTGLQKYPSTSEAVLNALRDLHPLPKIILEYRQVHKIKSTFVDGLLACMKKGSISSTWNQTGTVTGRLSAKHPNIQGISKHPIQITTPKNFKGKEDKILTISPRAMFVSSKGHTFLAADFSQIELRILTHLSGDPELLKLFQESERDDVFSTLTSQWKDVPVEQVTHADREQTKKVVYAVVYGAGKERLAACLGVPIQEAAQFLESFLQKYKKIKDFARAAIAQCHQTGCVVSIMGRRRPLPRIHAHDQQLRAQAERQAVNFVVQGSAADLCKLAMIHVFTAVAASHTLTARLVAQIHDELLFEVEDPQIPECAALVRRTMESLEQVQALELQLQVPLKVSLSAGRSWGHLVPLQEAWGPPPGPCRTESPSNSLAAPGSPASTQPPPLHFSPSFCL |
| 6582 | sp|P0A988|DPO3B\_ECOLI | MKFTVEREHLLKPLQQVSGPLGGRPTLPILGNLLLQVADGTLSLTGTDLEMEMVARVALVQPHEPGATTVPARKFFDICRGLPEGAEIAVQLEGERMLVRSGRSRFSLSTLPAADFPNLDDWQSEVEFTLPQATMKRLIEATQFSMAHQDVRYYLNGMLFETEGEELRTVATDGHRLAVCSMPIGQSLPSHSVIVPRKGVIELMRMLDGGDNPLRVQIGSNNIRAHVGDFIFTSKLVDGRFPDYRRVLPKNPDKHLEAGCDLLKQAFARAAILSNEKFRGVRLYVSENQLKITANNPEQEEAEEILDVTYSGAEMEIGFNVSYVLDVLNALKCENVRMMLTDSVSSVQIEDAASQSAAYVVMPMRL |
| 6583 | sp|P9WNB3|ECC1A\_MYCTU | MTTKKFTPTITRGPRLTPGEISLTPPDDLGIDIPPSGVQKILPYVMGGAMLGMIAIMVAGGTRQLSPYMLMMPLMMIVMMVGGLAGSTGGGGKKVPEINADRKEYLRYLAGLRTRVTSSATSQVAFFSYHAPHPEDLLSIVGTQRQWSRPANADFYAATRIGIGDQPAVDRLLKPAVGGELAAASAAPQPFLEPVSHMWVVKFLRTHGLIHDCPKLLQLRTFPTIAIGGDLAGAAGLMTAMICHLAVFHPPDLLQIRVLTEEPDDPDWSWLKWLPHVQHQTETDAAGSTRLIFTRQEGLSDLAARGPHAPDSLPGGPYVVVVDLTGGKAGFPPDGRAGVTVITLGNHRGSAYRIRVHEDGTADDRLPNQSFRQVTSVTDRMSPQQASRIARKLAGWSITGTILDKTSRVQKKVATDWHQLVGAQSVEEITPSRWRMYTDTDRDRLKIPFGHELKTGNVMYLDIKEGAEFGAGPHGMLIGTTGSGKSEFLRTLILSLVAMTHPDQVNLLLTDFKGGSTFLGMEKLPHTAAVVTNMAEEAELVSRMGEVLTGELDRRQSILRQAGMKVGAAGALSGVAEYEKYRERGADLPPLPTLFVVVDEFAELLQSHPDFIGLFDRICRVGRSLRVHLLLATQSLQTGGVRIDKLEPNLTYRIALRTTSSHESKAVIGTPEAQYITNKESGVGFLRVGMEDPVKFSTFYISGPYMPPAAGVETNGEAGGPGQQTTRQAARIHRFTAAPVLEEAPTP |
| 6584 | sp|P42893|ECE1\_RAT | MGSLRPPQGLGLQWSSFFLGKKGPGLTVSLPLLASSLQVNFRSPRSGQRCWAARTSVEKRLVVLVTLLAAGLVACLAALGIQYRTRTPPVCLTEACVSVTSSILNSMDPTVDPCQDFFSYACGGWIKANPVPDGHSRWGTFSNLWEHNQAIIKHLLENSTASASEAEKKAQVYYRACMNETRIEELRAKPLMELIEKLGGWNITGPWAKDNFQDTLQVVTAHYRTSPFFSVYVSADSKNSNSNVIQVDQSGLGLPSRDYYLNKTENEKVLTGYLNYMVQLGKLLGGGDEDSIRPQMQQILDFETALANITIPQEKRRDEELIYHKVTAAELQTLAPAINWLPFLNAIFYPVEINESEPIVVYDKEYLRQVSTLINSTDKCLLNNYMMWNLVRKTSSFLDQRFQDADEKFMEVMYGTKKTCLPRWKFCVSDTENNLGFALGPMFVKATFAEDSKNIASEIILEIKKAFEESLSTLKWMDEDTRRSAKEKADAIYNMIGYPNFIMDPKELDKVFNDYTAVPDLYFENAMRFFNFSLRVTADQLRKAPNRDQWSMTPPMVNAYYSPTKNEIVFPAGILQAPFYTRSSPNALNFGGIGVVVGHELTHAFDDQGREYDKDGNLRPWWKNSSVEAFKQQTECMVQQYNNYSVNGEPVNGRHTLGENIADNGGLKAAYRAYQNWVKKNGAEQILPTLGLTSNQLFFLGFAQVWCSVRTPESSHEGLITDPHSPSRFRVIGSLSNSKEFSEHFRCPLGSPMNPRHKCEVW |
| 6585 | sp|P55884|EIF3B\_HUMAN | MQDAENVAVPEAAEERAEPGQQQPAAEPPPAEGLLRPAGPGAPEAAGTEASSEEVGIAEAGPESEVRTEPAAEAEAASGPSESPSPPAAEELPGSHAEPPVPAQGEAPGEQARDERSDSRAQAVSEDAGGNEGRAAEAEPRALENGDADEPSFSDPEDFVDDVSEEELLGDVLKDRPQEADGIDSVIVVDNVPQVGPDRLEKLKNVIHKIFSKFGKITNDFYPEEDGKTKGYIFLEYASPAHAVDAVKNADGYKLDKQHTFRVNLFTDFDKYMTISDEWDIPEKQPFKDLGNLRYWLEEAECRDQYSVIFESGDRTSIFWNDVKDPVSIEERARWTETYVRWSPKGTYLATFHQRGIALWGGEKFKQIQRFSHQGVQLIDFSPCERYLVTFSPLMDTQDDPQAIIIWDILTGHKKRGFHCESSAHWPIFKWSHDGKFFARMTLDTLSIYETPSMGLLDKKSLKISGIKDFSWSPGGNIIAFWVPEDKDIPARVTLMQLPTRQEIRVRNLFNVVDCKLHWQKNGDYLCVKVDRTPKGTQGVVTNFEIFRMREKQVPVDVVEMKETIIAFAWEPNGSKFAVLHGEAPRISVSFYHVKNNGKIELIKMFDKQQANTIFWSPQGQFVVLAGLRSMNGALAFVDTSDCTVMNIAEHYMASDVEWDPTGRYVVTSVSWWSHKVDNAYWLWTFQGRLLQKNNKDRFCQLLWRPRPPTLLSQEQIKQIKKDLKKYSKIFEQKDRLSQSKASKELVERRRTMMEDFRKYRKMAQELYMEQKNERLELRGGVDTDELDSNVDDWEEETIEFFVTEEIIPLGNQE |
| 6586 | sp|P0DPE2|EFCE2\_BOVIN | MACLGPSAQVPELPEKNCGYREVQYWDQRYQGAADSAPYEWFGDFSCFRDLLEPELRPLDRILVLGCGNSALSYEIFLGGFPDVTSVDYSSVVVAAMRARYAHVPTLRWETMDVRALGFPSGSFDVVLEKGTLDALLTGEQDPWTVSSEGVHTVDQVLNEAGFRKRTSRLLGLHTQLELVLAGVSLLLAALLLGCLVALGVQYHRDPSHSTCLTEACIRVAGKILESLDRGVSPCEDFYQFSCGGWIRRNPLPDGRSRWNTFNSLWDQNQAILKHLLENTTFNSSSEAERKTQRFYLSCLQVERIEELGAQPLRDLIDKIGGWNVTGPWDQDNFMEVLKAVAGTYRATPFFTVYVSADSKSSNSNIIQVDQSGLFLPSRDYYLNRTANEKVLTAYLDYMEELGMLLGGQPTSTREQMRQVLELEIQLANITVPQDQRRDEEKIYHKMSIAELQALAPSMDWLEFLSFLLSPLELGDSEPVVVYGTDYLQQVSELINRTEPSVLNNYLIWNLVQKTTSSLDHRFESAQEKLLETLYGTKKSCTPRWQTCISNTDDALGFALGSLFVKATFDRQSKEIAEGMISEIRAAFEEALGHLVWMDEKTRQAAKEKADAIYDMIGFPDFILEPKELDDVYDGYEVSEDSFFQNMLNLYNFSAKVMADQLRKPPSRDQWSMTPQTVNAYYLPTKNEIVFPAGILQAPFYTCNHPKALNFGGIGVVMGHELTHAFDDQGREYDKEGNLRPWWQNESLAAFRNHTACIEEQYSQYQVNGEKLNGRQTLGENIADNGGLKAAYNAYKAWLRKHGEEQQLPAVGLTNHQLFFVGFAQVWCSVRTPESSHEGLVTDPHSPARFRVLGTLSNSRDFLRHFGCPVGSPMNSGQLCEVW |
| 6587 | sp|P27577|ETS1\_MOUSE | MKAAVDLKPTLTIIKTEKVDLELFPSPDMECADVPLLTPSSKEMMSQALKATFSGFTKEQQRLGIPKDPRQWTETHVRDWVMWAVNEFSLKGVDFQKFCMSGAALCALGKECFLELAPDFVGDILWEHLEILQKEDVKPYQVNGANPTYPESCYTSDYFISYGIEHAQCVPPSEFSEPSFITESYQTLHPISSEELLSLKYENDYPSVILQDPLQTDTLQTDYFAIKQEVLTPDNMCLGRASRGKLGGQDSFESVESYDSCDRLTQSWSSQSSFNSLQRVPSYDSFDYEDYPAALPNHKPKGTFKDYVRDRADLNKDKPVIPAAALAGYTGSGPIQLWQFLLELLTDKSCQSFISWTGDGWEFKLSDPDEVARRWGKRKNKPKMNYEKLSRGLRYYYDKNIIHKTAGKRYVYRFVCDLQSLLGYTPEELHAMLDVKPDAD |
| 6588 | sp|O00167|EYA2\_HUMAN | MVELVISPSLTVNSDCLDKLKFNRADAAVWTLSDRQGITKSAPLRVSQLFSRSCPRVLPRQPSTAMAAYGQTQYSAGIQQATPYTAYPPPAQAYGIPSYSIKTEDSLNHSPGQSGFLSYGSSFSTSPTGQSPYTYQMHGTTGFYQGGNGLGNAAGFGSVHQDYPSYPGFPQSQYPQYYGSSYNPPYVPASSICPSPLSTSTYVLQEASHNVPNQSSESLAGEYNTHNGPSTPAKEGDTDRPHRASDGKLRGRSKRSSDPSPAGDNEIERVFVWDLDETIIIFHSLLTGTFASRYGKDTTTSVRIGLMMEEMIFNLADTHLFFNDLEDCDQIHVDDVSSDDNGQDLSTYNFSADGFHSSAPGANLCLGSGVHGGVDWMRKLAFRYRRVKEMYNTYKNNVGGLIGTPKRETWLQLRAELEALTDLWLTHSLKALNLINSRPNCVNVLVTTTQLIPALAKVLLYGLGSVFPIENIYSATKTGKESCFERIMQRFGRKAVYVVIGDGVEEEQGAKKHNMPFWRISCHADLEALRHALELEYL |
| 6589 | sp|Q2NKX8|ERC6L\_HUMAN | MEASRRFPEAEALSPEQAAHYLRYVKEAKEATKNGDLEEAFKLFNLAKDIFPNEKVLSRIQKIQEALEELAEQGDDEFTDVCNSGLLLYRELHNQLFEHQKEGIAFLYSLYRDGRKGGILADDMGLGKTVQIIAFLSGMFDASLVNHVLLIMPTNLINTWVKEFIKWTPGMRVKTFHGPSKDERTRNLNRIQQRNGVIITTYQMLINNWQQLSSFRGQEFVWDYVILDEAHKIKTSSTKSAICARAIPASNRLLLTGTPIQNNLQELWSLFDFACQGSLLGTLKTFKMEYENPITRAREKDATPGEKALGFKISENLMAIIKPYFLRRTKEDVQKKKSSNPEARLNEKNPDVDAICEMPSLSRKNDLIIWIRLVPLQEEIYRKFVSLDHIKELLMETRSPLAELGVLKKLCDHPRLLSARACCLLNLGTFSAQDGNEGEDSPDVDHIDQVTDDTLMEESGKMIFLMDLLKRLRDEGHQTLVFSQSRQILNIIERLLKNRHFKTLRIDGTVTHLLEREKRINLFQQNKDYSVFLLTTQVGGVGLTLTAATRVVIFDPSWNPATDAQAVDRVYRIGQKENVVVYRLITCGTVEEKIYRRQVFKDSLIRQTTGEKKNPFRYFSKQELRELFTIEDLQNSVTQLQLQSLHAAQRKSDIKLDEHIAYLQSLGIAGISDHDLMYTCDLSVKEELDVVEESHYIQQRVQKAQFLVEFESQNKEFLMEQQRTRNEGAWLREPVFPSSTKKKCPKLNKPQPQPSPLLSTHHTQEEDISSKMASVVIDDLPKEGEKQDLSSIKVNVTTLQDGKGTGSADSIATLPKGFGSVEELCTNSSLGMEKSFATKNEAVQKETLQEGPKQEALQEDPLESFNYVLSKSTKADIGPNLDQLKDDEILRHCNPWPIISITNESQNAESNVSIIEIADDLSASHSALQDAQASEAKLEEEPSASSPQYACDFNLFLEDSADNRQNFSSQSLEHVEKENSLCGSAPNSRAGFVHSKTCLSWEFSEKDDEPEEVVVKAKIRSKARRIVSDGEDEDDSFKDTSSINPFNTSLFQFSSVKQFDASTPKNDISPPGRFFSSQIPSSVNKSMNSRRSLASRRSLINMVLDHVEDMEERLDDSSEAKGPEDYPEEGVEESSGEASKYTEEDPSGETLSSENKSSWLMTSKPSALAQETSLGAPEPLSGEQLVGSPQDKAAEATNDYETLVKRGKELKECGKIQEALNCLVKALDIKSADPEVMLLTLSLYKQLNNN |
| 6590 | sp|P55931|ETFD\_PIG | MMVPLAKLASPAYQCFHALKIKKNYLPLCATRWSSTCKVPRITTHYTIYPRDQDKRWEGVNMERFAEEADVVIVGAGPAGLSAATRLKQLAAQHEKDLRVCLVEKAAHIGAHTLSGACLDPRAFEELFPDWKEKGAPLNTPVTEDRFGILTEKYRIPVPILPGLPMNNHGNYVVRLGHLVSWMGEQAEALGVEVYPGYAAAEILFHEDGSVKGIATNDVGIQKDGAPKTTFERGLELHAKVTIFAEGCHGHLAKQLYKKFDLRANCEPQTYGIGLKELWVIDEKKWKPGRVDHTVGWPLDRHTYGGSFLYHLNEGEPLLALGFVVGLDYQNPYLSPFREFQRWKHHPSIKPTLEGGKRIAYGARALNEGGFQSIPKLTFPGGLLIGCSPGFMNVPKIKGTHTAMKSGTLAAESIFNQLTSENLQSKTIGLHVTEYEDNLKNSWVWKELYSVRNIRPSCHGILGVYGGMIYTGIFYWIFRGMEPWTLKHKGSDSDQLKPAKDCTPIEYPKPDGQISFDLLSSVALSGTNHEHDQPAHLTLKDDSVPVNRNLSIYDGPEQRFCPAGVYEFVPLEQGDGFRLQINAQNCVHCKTCDIKDPSQNINWVVPEGGGGPAYNGM |
| 6591 | sp|P97480|EYA3\_MOUSE | MQEPREQTLSQVNNPDASDEKPETSSLASNLSMSEEIMTCTDYIPRSSNDYTSQMYSAKPYAHILSVPVSETTYPGQTQYQTLQQSQPYAVYPQATQTYGLPPFASSTNASLIPTSSAIANIPAAAVASISNQDYPTYTILGQNQYQACYPSSSFGVTGQTNSDAETTTLAATTYQTEKPSAMVPAPATQRLPSDSSASPPLSQTTPNKDADDQARKNMTVKNRGKRKADASSSQDSELERVFLWDLDETIIIFHSLLTGSYAQKYGKDPTVVIGSGLTMEEMIFEVADTHLFFNDLEECDQVHVEDVASDDNGQDLSNYSFSTDGFSGSGGSGSHGSSVGVQGGVDWMRKLAFRYRKVREIYDKHKSNVGGLLSPQRKEALQRLRAEIEVLTDSWLGTALKSLLLIQSRKNCANVLITTTQLVPALAKVLLYGLGEIFPIENIYSATKIGKESCFERIVSRFGKKVTYVVIGDGRDEEIAAKQHNMPFWRITNHGDLVSLHQALELDFL |
| 6592 | sp|Q13868|EXOS2\_HUMAN | MAMEMRLPVARKPLSERLGRDTKKHLVVPGDTITTDTGFMRGHGTYMGEEKLIASVAGSVERVNKLICVKALKTRYIGEVGDIVVGRITEVQQKRWKVETNSRLDSVLLLSSMNLPGGELRRRSAEDELAMRGFLQEGDLISAEVQAVFSDGAVSLHTRSLKYGKLGQGVLVQVSPSLVKRQKTHFHDLPCGASVILGNNGFIWIYPTPEHKEEEAGGFIANLEPVSLADREVISRLRNCIISLVTQRMMLYDTSILYCYEASLPHQIKDILKPEIMEEIVMETRQRLLEQEG |
| 6593 | sp|Q01740|FMO1\_HUMAN | MAKRVAIVGAGVSGLASIKCCLEEGLEPTCFERSDDLGGLWRFTEHVEEGRASLYKSVVSNSCKEMSCYSDFPFPEDYPNYVPNSQFLEYLKMYANHFDLLKHIQFKTKVCSVTKCSDSAVSGQWEVVTMHEEKQESAIFDAVMVCTGFLTNPYLPLDSFPGINAFKGQYFHSRQYKHPDIFKDKRVLVIGMGNSGTDIAVEASHLAEKVFLSTTGGGWVISRIFDSGYPWDMVFMTRFQNMLRNSLPTPIVTWLMERKINNWLNHANYGLIPEDRTQLKEFVLNDELPGRIITGKVFIRPSIKEVKENSVIFNNTSKEEPIDIIVFATGYTFAFPFLDESVVKVEDGQASLYKYIFPAHLQKPTLAIIGLIKPLGSMIPTGETQARWAVRVLKGVNKLPPPSVMIEEINARKENKPSWFGLCYCKALQSDYITYIDELLTYINAKPNLFSMLLTDPHLALTVFFGPCSPYQFRLTGPGKWEGARNAIMTQWDRTFKVIKARVVQESPSPFESFLKVFSFLALLVAIFLIFL |
| 6594 | sp|P14738|FNBA\_STAA8 | MKNNLRYGIRKHKLGAASVFLGTMIVVGMGQDKEAAASEQKTTTVEENGNSATDNKTSETQTTATNVNHIEETQSYNATVTEQPSNATQVTTEEAPKAVQAPQTAQPANIETVKEEVVKEEAKPQVKETTQSQDNSGDQRQVDLTPKKATQNQVAETQVEVAQPRTASESKPRVTRSADVAEAKEASNAKVETGTDVTSKVTVEIGSIEGHNNTNKVEPHAGQRAVLKYKLKFENGLHQGDYFDFTLSNNVNTHGVSTARKVPEIKNGSVVMATGEVLEGGKIRYTFTNDIEDKVDVTAELEINLFIDPKTVQTNGNQTITSTLNEEQTSKELDVKYKDGIGNYYANLNGSIETFNKANNRFSHVAFIKPNNGKTTSVTVTGTLMKGSNQNGNQPKVRIFEYLGNNEDIAKSVYANTTDTSKFKEVTSNMSGNLNLQNNGSYSLNIENLDKTYVVHYDGEYLNGTDEVDFRTQMVGHPEQLYKYYYDRGYTLTWDNGLVLYSNKANGNEKNGPIIQNNKFEYKEDTIKETLTGQYDKNLVTTVEEEYDSSTLDIDYHTAIDGGGGYVDGYIETIEETDSSAIDIDYHTAVDSEAGHVGGYTESSEESNPIDFEESTHENSKHHADVVEYEEDTNPGGGQVTTESNLVEFDEESTKGIVTGAVSDHTTVEDTKEYTTESNLIELVDELPEEHGQAQGPVEEITKNNHHISHSGLGTENGHGNYDVIEEIEENSHVDIKSELGYEGGQNSGNQSFEEDTEEDKPKYEQGGNIVDIDFDSVPQIHGQNKGNQSFEEDTEKDKPKYEHGGNIIDIDFDSVPHIHGFNKHTEIIEEDTNKDKPSYQFGGHNSVDFEEDTLPKVSGQNEGQQTIEEDTTPPIVPPTPPTPEVPSEPETPTPPTPEVPSEPETPTPPTPEVPSEPETPTPPTPEVPAEPGKPVPPAKEEPKKPSKPVEQGKVVTPVIEINEKVKAVAPTKKPQSKKSELPETGGEESTNKGMLFGGLFSILGLALLRRNKKNHKA |
| 6595 | sp|P38071|ETR1\_YEAST | MLPTFKRYMSSSAHQIPKHFKSLIYSTHEVEDCTKVLSVKNYTPKQDLSQSIVLKTLAFPINPSDINQLQGVYPSRPEKTYDYSTDEPAAIAGNEGVFEVVSLPSGSSKGDLKLGDRVIPLQANQGTWSNYRVFSSSSDLIKVNDLDLFSAATVSVNGCTGFQLVSDYIDWNSNGNEWIIQNAGTSSVSKIVTQVAKAKGIKTLSVIRDRDNFDEVAKVLEDKYGATKVISESQNNDKTFAKEVLSKILGENARVRLALNSVGGKSSASIARKLENNALMLTYGGMSKQPVTLPTSLHIFKGLTSKGYWVTEKNKKNPQSKIDTISDFIKMYNYGHIISPRDEIETLTWNTNTTTDEQLLELVKKGITGKGKKKMVVLEW |
| 6596 | sp|Q9Y3B2|EXOS1\_HUMAN | MAPPVRYCIPGERLCNLEEGSPGSGTYTRHGYIFSSLAGCLMKSSENGALPVVSVVRETESQLLPDVGAIVTCKVSSINSRFAKVHILYVGSMPLKNSFRGTIRKEDVRATEKDKVEIYKSFRPGDIVLAKVISLGDAQSNYLLTTAENELGVVVAHSESGIQMVPISWCEMQCPKTHTKEFRKVARVQPEFLQT |
| 6597 | sp|Q04799|FMO5\_RABIT | MAGKRVAVIGAGASGLACIKCCLEEGLEPVCFERTDDIGGLWRFQESPDEGRASIYKSVIINTSKEMMCFSDYPIPDHFPNFMHNSQVLEYFRMYAKEFGLLKYIQFKTTVCSVKKRPDFSTSGQWEVLTECEGKKESAVFDGVLVCTGHHTSAHLPLESFPGIEKFKGQYLHSRDYKNPEKFTGKRVIVIGIGNSGGDLAVEISHTAKQVFLSTRRGAWIMNRVGDHGYPIDILLSSRFSQFLKKITGETIANSFLERKMNQRFDHAMFGLKPKHRALSQHPTVNDDLPNRIISGSVKIKGNVKEFTETAAIFEDGSREDDIDAVIFATGYSFSFPFLEDSVKVVKNKVSLYKKVFPPNLEKPTLAIIGLIQPLGAIMPISELQARWATLVFKGLKTLPSQSEMMTEISQVQEKMAKRYVESQRHTIQGDYIETMEEIADLVGVRPNLLSLAFTDPRLALQLLLGPCTPVHYRLQGRGKWDGARKTILTVEDRIRKPLMTRVTESSNSVTSMMTMGKFMLAIAFLAIAVVYF |
| 6598 | sp|Q0VDQ9|FEZF1\_MOUSE | MDSSCLNATTKMLATAPARGNVMSTSKPLAFSIERIMARTPEPKALPVPHFLQGAVPKGDPKHSLHLNSSIPCMIPFVPVAYDTNSKAGVNGSEPRKASLEVPAPPAVAPSAPAFSCSDLLNCALSLKGDLARDALPLQQYKLVRPRVVNHSSFHAMGALCYLNRGDGPCHPAASVNIHPVASYFLSSPLHPQPKTYLAERNKLVVPAVEKLPSGVAFKDLSQAQLQHYMKESAQLLSEKIAFKTSDFSRGSPNAKPKVFTCEVCGKVFNAHYNLTRHMPVHTGARPFVCKVCGKGFRQASTLCRHKIIHTQEKPHKCNQCGKAFNRSSTLNTHTRIHAGYKPFVCEFCGKGFHQKGNYKNHKLTHSGEKQFKCNICNKAFHQVYNLTFHMHTHNDKKPFTCPTCGKGFCRNFDLKKHVRKLHDSSLGLTRTPTGEPSSDPPPQLQQPPPAPLPPLQPTLPPPGPLPSGLHQGHQ |
| 6599 | sp|Q8VI82|FGF23\_RAT | MLGACLRLLVGALCTVCSLGTARAYSDTSPLLGSNWGSLTHLYTATARNSYHLQIHRDGHVDGTPHQTIYSALMITSEDAGSVVIIGAMTRRFLCMDLRGNIFGSYHFSPENCRFRQWTLENGYDVYLSPKHHYLVSLGRSKRIFQPGTNPPPFSQFLARRNEVPLLHFYTARPRRHTRSAEDPPERDPLNVLKPRPRATPIPVSCSRELPSAEEGGPAASDPLGVLRRGRGDARRGAGGTDRCRPFPRFV |
| 6600 | sp|Q9NP95|FGF20\_HUMAN | MAPLAEVGGFLGGLEGLGQQVGSHFLLPPAGERPPLLGERRSAAERSARGGPGAAQLAHLHGILRRRQLYCRTGFHLQILPDGSVQGTRQDHSLFGILEFISVAVGLVSIRGVDSGLYLGMNDKGELYGSEKLTSECIFREQFEENWYNTYSSNIYKHGDTGRRYFVALNKDGTPRDGARSKRHQKFTHFLPRPVDPERVPELYKDLLMYT |
| 6601 | sp|Q8CCH7|FOG2\_MOUSE | MSRRKQSKPRQIKRPLEDAIDDEEEECPVEEAEVISKGDFPLEGSFPAGFEPENLSCEDVEFFCNKGDDEGIQEPAESDGDSHSDKPGQPGVETDDWDGPGELEVFQRDGERKIQSRQQLPVGTTWGPFAGKMDLNNNSLKTKAQVPMVLTAGPKWLLDVTWQGVEDSKNNCIVYSKGGQLWCTTTKAISEGEELVAFVVDFDSRLQAASHMTLTEGMYPARLLDSIQLLPQQAAMASILPTAIVNKDIFPCKSCGIWYRSERNLQAHLMYYCSGRQREAAPVSEENEDNSHQVSSLCPFPQCTKSFSNARALEMHLNSHSGVKMEEFLPPGASLKCTVCSYTADSVINFHQHLFSHLTQAAFRCNHCHFGFQTQRELLQHQELHVPSGKLPRESDMEHSPSGTEDSLQPATDLLARSDLSQSQKAMPTKDASSDTELDKCEKKTQLFLTNQRPEIQPAANKQNFSYTKIKSEPSSPRLASSPVQPNIGPSFPVGPFLSQFAFPQDITMVPQASEILAKMSELVHRRLRHGSSSYPPVIYSPLMPKGATCFECNITFNNLDNYLVHKKHYCSSRWQQMAKSPEFPSVSEKMPEAVSPNTGQTSINLLNPAAHSSDPENPLLQTSCINSSTVLDLIGPNGKGHEKDFSTQVKKLPTSNSSDDKINGKPVDVKNPSGPLVDGESDPNKTTCEACNITFSRHETYMVHKQYYCATRHDPPLKRSASNKVPAMQRTMRTRKRRKMYEMCLPEQEQRPPLVQQRFLDVANLSNPCSSTQEPTEGLGECYHPRCDIFPGIVSKHLETSLAMNKCVPVPKCDTTHSNVSCLEMDVPIDLSKKCLSQSERTTASPKRLLDYHECTVCKISFNKVENYLAHKQNFCPVTAHQRNDLGQLDGKVFPNPESERSSPEVSFERNMIKCEKNGNPKQPSPNGNLFSSHLATLQGLKVFSEAAQLIATKEENKHLFLPQCLYPGAIKKTKGADQLSPYYGIKPSDYIASSLVIHNTDVEQSTNTENESPKGQASSNGCAVPKKDSLPLLPKNRGMVIVNGGLKQDERPTANPQQENISQNTQHEDGHKSPSWISENPLAANENVSPGIPCAEEQLSSIAKGVNGASQAPSSGKYCRLCDIQFNNLSNFITHKKFYCSSHAAEHVK |
| 6602 | sp|O54743|FOXF2\_MOUSE | MSTEGGPPPPPPRPPPAPLRRACSPAPGALQAALMSPPPAATLESTSSSSSSSSASCASSSSNSVSASAGACKSAASSGGAGAGSGGTKKATSGLRRPEKPPYSYIALIVMAIQSSPSKRLTLSEIYQFLQARFPFFRGAYQGWKNSVRHNLSLNECFIKLPKGLGRPGKGHYWTIDPASEFMFEEGSFRRRPRGFRRKCQALKPMYHRVVSGLGFGASLLPQGFDFQAPPSAPLGCHGQGGYGGLDMMPAGYDTGAGAPGHAHPHHLHHHHVPHMSPNPGSTYMASCPVPAGPAGVGAAAGGGGGGGDYGPDSSSSPVPSSPAMASAIECHSPYTSPAAHWSSPGASPYLKQPPALTPSSNPAASAGLHPSMSSYSLEQSYLHQNAREDLSVGLPRYQHHSTPVCDRKDFVLNFNGISSFHPSASGSYYHHHHQSVCQDIKPCVM |
| 6603 | sp|O75593|FOXH1\_HUMAN | MGPCSGSRLGPPEAESPSQPPKRRKKRYLRHDKPPYTYLAMIALVIQAAPSRRLKLAQIIRQVQAVFPFFREDYEGWKDSIRHNLSSNRCFRKVPKDPAKPQAKGNFWAVDVSLIPAEALRLQNTALCRRWQNGGARGAFAKDLGPYVLHGRPYRPPSPPPPPSEGFSIKSLLGGSGEGAPWPGLAPQSSPVPAGTGNSGEEAVPTPPLPSSERPLWPLCPLPGPTRVEGETVQGGAIGPSTLSPEPRAWPLHLLQGTAVPGGRSSGGHRASLWGQLPTSYLPIYTPNVVMPLAPPPTSCPQCPSTSPAYWGVAPETRGPPGLLCDLDALFQGVPPNKSIYDVWVSHPRDLAAPGPGWLLSWCSL |
| 6604 | sp|P41855|FLP01\_CAEEL | MTLLYQVGLLLLVAATYKVSAECCTPGATSDFCTVFSMLSTMEQNEVMNFIGENCDGDAEVALQKMEKRKPNFMRYGRSAAVKSLGKKAGSDPNFLRFGRSQPNFLRFGKASGDPNFLRFGRSDPNFLRFGKAAADPNFLRFGKRSADPNFLRFGRSFDNFDRESRKPNFLRFGK |
| 6605 | sp|Q7M303|FGF1\_SHEEP | MAEGETTTFRALTEKFNLPLGNYKKPKLLYCSNGGYFLRILPDGRVDGTKDRSDQHIQLQLYAESIGEVYIKSTETGQFLAMDTNGLLYGSQTPSEECLFLERLEENHYNTYISKKHAEKNWFIGLKKNGSSKLGPRTHFGQKAILFLPLPVSSD |
| 6606 | sp|O88621|FOXH1\_MOUSE | MASGWDLASTYTPTTPSPQLALAPAQGYLPCMGPRDNSQLRPPEAESLSKTPKRRKKRYLRHDKPPYTYLAMIALVIQAAPFRRLKLAQIIRQVQAVFPFFRDDYEGWKDSIRHNLSSNRCFHKVPKDPAKPQAKGNFWAVDVSLIPAEALRLQNTALCRRWQNRGTHRAFAKDLSPYVLHGQPYQPPSPPPPPREGFSIKSLLGDPGKESTWPQHPGLPGQSTAAQAGTLSKGEEGMGTGPSSSSETPLWPLCSLPGPTIIEGESSQGEVIRPSPVTPDQGSWPLHLLEDSADSRGVPRRGSRASLWGQLPTSYLPIYTPNVVMPLATLPTTSCPQCPSSASPAYWSVGTESQGSQDLLCDLDSLFQGVPPNKSIYDVWVSHPRDLAAPAPGWLLSWYSM |
| 6607 | sp|P21803|FGFR2\_MOUSE | MVSWGRFICLVLVTMATLSLARPSFSLVEDTTLEPEEPPTKYQISQPEAYVVAPGESLELQCMLKDAAVISWTKDGVHLGPNNRTVLIGEYLQIKGATPRDSGLYACTAARTVDSETWIFMVNVTDAISSGDDEDDTDSSEDVVSENRSNQRAPYWTNTEKMEKRLHACPAANTVKFRCPAGGNPTSTMRWLKNGKEFKQEHRIGGYKVRNQHWSLIMESVVPSDKGNYTCLVENEYGSINHTYHLDVVERSPHRPILQAGLPANASTVVGGDVEFVCKVYSDAQPHIQWIKHVEKNGSKNGPDGLPYLKVLKAAGVNTTDKEIEVLYIRNVTFEDAGEYTCLAGNSIGISFHSAWLTVLPAPVREKEITASPDYLEIAIYCIGVFLIACMVVTVIFCRMKTTTKKPDFSSQPAVHKLTKRIPLRRQVTVSAESSSSMNSNTPLVRITTRLSSTADTPMLAGVSEYELPEDPKWEFPRDKLTLGKPLGEGCFGQVVMAEAVGIDKDKPKEAVTVAVKMLKDDATEKDLSDLVSEMEMMKMIGKHKNIINLLGACTQDGPLYVIVEYASKGNLREYLRARRPPGMEYSYDINRVPEEQMTFKDLVSCTYQLARGMEYLASQKCIHRDLAARNVLVTENNVMKIADFGLARDINNIDYYKKTTNGRLPVKWMAPEALFDRVYTHQSDVWSFGVLMWEIFTLGGSPYPGIPVEELFKLLKEGHRMDKPTNCTNELYMMMRDCWHAVPSQRPTFKQLVEDLDRILTLTTNEEYLDLTQPLEQYSPSYPDTSSSCSSGDDSVFSPDPMPYEPCLPQYPHINGSVKT |
| 6608 | sp|Q3ULA2|FBW1A\_MOUSE | MDPAEAVLQEKALKFMCSMPRSLWLGCSSLADSMPSLRCLYNPGTGALTAFQNSSEREDCNNGEPPRKIIPEKNSLRQTYNSCARLCINQETVCLTSTAMKTENCVAKAKLANGTSSMIVPKQRKLSASYEKEKELCVKYFEQWSESDQVEFVEHLISQMCHYQHGHINSYLKPMLQRDFITALPARGLDHIAENILSYLDAKSLCAAELVCKEWYRVTSDGMLWKKLIERMVRTDSLWRGLAERRGWGQYLFKNKPPDENAPPNSFYRALYPKIIQDIETIESNWRCGRHSLQRIHCRSETSKGVYCLQYDDQKIVSGLRDNTIKIWDKSTLECKRILTGHTGSVLCLQYDERVIITGSSDSTVRVWDVNAGEMLNTLIHHCEAVLHLRFNNGMMVTCSKDRSIAVWDMASPTDITLRRVLVGHRAAVNVVDFDDKYIVSASGDRTIKVWNTSTCEFVRTLNGHKRGIACLQYRDRLVVSGSSDNTIRLWDIECGACLRVLEGHEELVRCIRFDNKRIVSGAYDGKIKVWDLMAALDPRAPAGTLCLRTLVEHSGRVFRLQFDEFQIVSSSHDDTILIWDFLNDPAAHAEPPRSPSRTYTYISR |
| 6609 | sp|A8MR65|FHL\_ARATH | MDDADKSCSPSLDHSDINDPMIVAVESLDTSKKRKLHAEESDLLPLPKHFCSEHQASLVNSSCPSSVIDYAECSYAMENTKTSDEASSSASFTGPSLYMFKDSIYSTGSSSSGYAATSSIEQCFSKVDHKTQEDTQDFTHMEFIYHDSEFAVEDLQEVLNPVESYILSSARWSVSNQDSKEATTKPTIDQEFEQYFSTLMM |
| 6610 | sp|Q8WUP2|FBLI1\_HUMAN | MASKPEKRVASSVFITLAPPRRDVAVAEEVRQAVCEARRGRPWEAPAPMKTPEAGLAGRPSPWTTPGRAAATVPAAPMQLFNGGCPPPPPVLDGEDVLPDLDLLPPPPPPPPVLLPSEEEAPAPMGASLIADLEQLHLSPPPPPPQAPAEGPSVQPGPLRPMEEELPPPPAEPVEKGASTDICAFCHKTVSPRELAVEAMKRQYHAQCFTCRTCRRQLAGQSFYQKDGRPLCEPCYQDTLERCGKCGEVVRDHIIRALGQAFHPSCFTCVTCARCIGDESFALGSQNEVYCLDDFYRKFAPVCSICENPIIPRDGKDAFKIECMGRNFHENCYRCEDCRILLSVEPTDQGCYPLNNHLFCKPCHVKRSAAGCC |
| 6611 | sp|P33650|FEOB\_ECOLI | MKKLTIGLIGNPNSGKTTLFNQLTGSRQRVGNWAGVTVERKEGQFSTTDHQVTLVDLPGTYSLTTISSQTSLDEQIACHYILSGDADLLINVVDASNLERNLYLTLQLLELGIPCIVALNMLDIAEKQNIRIEIDALSARLGCPVIPLVSTRGRGIEALKLAIDRYKANENVELVHYAQPLLNEADSLAKVMPSDIPLKQRRWLGLQMLEGDIYSRAYAGEASQHLDAALARLRNEMDDPALHIADARYQCIAAICDVVSNTLTAEPSRFTTAVDKIVLNRFLGLPIFLFVMYLMFLLAINIGGALQPLFDVGSVALFVHGIQWIGYTLHFPDWLTIFLAQGLGGGINTVLPLVPQIGMMYLFLSFLEDSGYMARAAFVMDRLMQALGLPGKSFVPLIVGFGCNVPSVMGARTLDAPRERLMTIMMAPFMSCGARLAIFAVFAAAFFGQNGALAVFSLYMLGIVMAVLTGLMLKYTIMRGEATPFVMELPVYHVPHVKSLIIQTWQRLKGFVLRAGKVIIIVSIFLSAFNSFSLSGKIVDNINDSALASVSRVITPVFKPIGVHEDNWQATVGLFTGAMAKEVVVGTLNTLYTAENIQDEEFNPAEFNLGEELFSAIDETWQSLKDTFSLSVLMNPIEASKGDGEMGTGAMGVMDQKFGSAAAAYSYLIFVLLYVPCISVMGAIARESSRGWMGFSILWGLNIAYSLATLFYQVASYSQHPTYSLVCILAVILFNIVVIGLLRRARSRVDIELLATRKSVSSCCAASTTGDCH |
| 6612 | sp|B2RH54|FIMA1\_PORG3 | MKKTKFFLLGLAALAMTACNKDNEAEPVTEGNATISVVLKTSNSNRAFGVGDDESKVAKLTVMVYNGEQQEAIKSAENATKVEDIKCSAGQRTLVVMANTGAMELVGKTLAEVKALTTELTAENQEAAGLIMTAEPKTIVLKAGKNYIGYSGTGEGNHIENDPLKIKRVHARMAFTEIKVQMSAAYDNIYTFVPEKIYGLIAKKQSNLFGATLVNADANYLTGSLTTFNGAYTPANYANVPWLSRNYVAPAADAPQGFYVLENDYSANGGTIHPTILCVYGKLQKNGADLAGADLAAAQAANWVDAEGKTYYPVLVNFNSNNYTYDSNYTPKNKIERNHKYDIKLTITGPGTNNPENPITESAHLNVQCTVAEWVLVGQNATW |
| 6613 | sp|P02751|FINC\_HUMAN | MLRGPGPGLLLLAVQCLGTAVPSTGASKSKRQAQQMVQPQSPVAVSQSKPGCYDNGKHYQINQQWERTYLGNALVCTCYGGSRGFNCESKPEAEETCFDKYTGNTYRVGDTYERPKDSMIWDCTCIGAGRGRISCTIANRCHEGGQSYKIGDTWRRPHETGGYMLECVCLGNGKGEWTCKPIAEKCFDHAAGTSYVVGETWEKPYQGWMMVDCTCLGEGSGRITCTSRNRCNDQDTRTSYRIGDTWSKKDNRGNLLQCICTGNGRGEWKCERHTSVQTTSSGSGPFTDVRAAVYQPQPHPQPPPYGHCVTDSGVVYSVGMQWLKTQGNKQMLCTCLGNGVSCQETAVTQTYGGNSNGEPCVLPFTYNGRTFYSCTTEGRQDGHLWCSTTSNYEQDQKYSFCTDHTVLVQTRGGNSNGALCHFPFLYNNHNYTDCTSEGRRDNMKWCGTTQNYDADQKFGFCPMAAHEEICTTNEGVMYRIGDQWDKQHDMGHMMRCTCVGNGRGEWTCIAYSQLRDQCIVDDITYNVNDTFHKRHEEGHMLNCTCFGQGRGRWKCDPVDQCQDSETGTFYQIGDSWEKYVHGVRYQCYCYGRGIGEWHCQPLQTYPSSSGPVEVFITETPSQPNSHPIQWNAPQPSHISKYILRWRPKNSVGRWKEATIPGHLNSYTIKGLKPGVVYEGQLISIQQYGHQEVTRFDFTTTSTSTPVTSNTVTGETTPFSPLVATSESVTEITASSFVVSWVSASDTVSGFRVEYELSEEGDEPQYLDLPSTATSVNIPDLLPGRKYIVNVYQISEDGEQSLILSTSQTTAPDAPPDTTVDQVDDTSIVVRWSRPQAPITGYRIVYSPSVEGSSTELNLPETANSVTLSDLQPGVQYNITIYAVEENQESTPVVIQQETTGTPRSDTVPSPRDLQFVEVTDVKVTIMWTPPESAVTGYRVDVIPVNLPGEHGQRLPISRNTFAEVTGLSPGVTYYFKVFAVSHGRESKPLTAQQTTKLDAPTNLQFVNETDSTVLVRWTPPRAQITGYRLTVGLTRRGQPRQYNVGPSVSKYPLRNLQPASEYTVSLVAIKGNQESPKATGVFTTLQPGSSIPPYNTEVTETTIVITWTPAPRIGFKLGVRPSQGGEAPREVTSDSGSIVVSGLTPGVEYVYTIQVLRDGQERDAPIVNKVVTPLSPPTNLHLEANPDTGVLTVSWERSTTPDITGYRITTTPTNGQQGNSLEEVVHADQSSCTFDNLSPGLEYNVSVYTVKDDKESVPISDTIIPEVPQLTDLSFVDITDSSIGLRWTPLNSSTIIGYRITVVAAGEGIPIFEDFVDSSVGYYTVTGLEPGIDYDISVITLINGGESAPTTLTQQTAVPPPTDLRFTNIGPDTMRVTWAPPPSIDLTNFLVRYSPVKNEEDVAELSISPSDNAVVLTNLLPGTEYVVSVSSVYEQHESTPLRGRQKTGLDSPTGIDFSDITANSFTVHWIAPRATITGYRIRHHPEHFSGRPREDRVPHSRNSITLTNLTPGTEYVVSIVALNGREESPLLIGQQSTVSDVPRDLEVVAATPTSLLISWDAPAVTVRYYRITYGETGGNSPVQEFTVPGSKSTATISGLKPGVDYTITVYAVTGRGDSPASSKPISINYRTEIDKPSQMQVTDVQDNSISVKWLPSSSPVTGYRVTTTPKNGPGPTKTKTAGPDQTEMTIEGLQPTVEYVVSVYAQNPSGESQPLVQTAVTNIDRPKGLAFTDVDVDSIKIAWESPQGQVSRYRVTYSSPEDGIHELFPAPDGEEDTAELQGLRPGSEYTVSVVALHDDMESQPLIGTQSTAIPAPTDLKFTQVTPTSLSAQWTPPNVQLTGYRVRVTPKEKTGPMKEINLAPDSSSVVVSGLMVATKYEVSVYALKDTLTSRPAQGVVTTLENVSPPRRARVTDATETTITISWRTKTETITGFQVDAVPANGQTPIQRTIKPDVRSYTITGLQPGTDYKIYLYTLNDNARSSPVVIDASTAIDAPSNLRFLATTPNSLLVSWQPPRARITGYIIKYEKPGSPPREVVPRPRPGVTEATITGLEPGTEYTIYVIALKNNQKSEPLIGRKKTDELPQLVTLPHPNLHGPEILDVPSTVQKTPFVTHPGYDTGNGIQLPGTSGQQPSVGQQMIFEEHGFRRTTPPTTATPIRHRPRPYPPNVGEEIQIGHIPREDVDYHLYPHGPGLNPNASTGQEALSQTTISWAPFQDTSEYIISCHPVGTDEEPLQFRVPGTSTSATLTGLTRGATYNVIVEALKDQQRHKVREEVVTVGNSVNEGLNQPTDDSCFDPYTVSHYAVGDEWERMSESGFKLLCQCLGFGSGHFRCDSSRWCHDNGVNYKIGEKWDRQGENGQMMSCTCLGNGKGEFKCDPHEATCYDDGKTYHVGEQWQKEYLGAICSCTCFGGQRGWRCDNCRRPGGEPSPEGTTGQSYNQYSQRYHQRTNTNVNCPIECFMPLDVQADREDSRE |
| 6614 | sp|Q9CQ92|FIS1\_MOUSE | MEAVLNELVSVEDLKNFERKFQSEQAAGSVSKSTQFEYAWCLVRSKYNEDIRRGIVLLEELLPKGSKEEQRDYVFYLAVGNYRLKEYEKALKYVRGLLQTEPQNNQAKELERLIDKAMKKDGLVGMAIVGGMALGVAGLAGLIGLAVSKSKS |
| 6615 | sp|Q8W104|FBL17\_ARATH | MQPQPHISPNTATAAISAALESQRSRKNRGSYNCGRCGQPKKGHVCLLTAPPDIPTTPIASEPVSCISAAASSSRSTVLSLTAAPSSRQTFTHLRRALSFDDVDARNSLDESDLDAASMDLDLQLDTDIVQPGRFHAVGLWEVLKRLPPSSLLMAARVCKGWRETSRKMWKAAEELRIRVPERAQIGYIGSLLQKCPRLIRLSLKIESDFDATTLACIAFSCPNLEVLEITTSGAAVNRISGDELSRFVANKRGLTSLKMEGCSNLGGFSLSSSSLSTLWLSDLHSLSKMIFNCPNLTEISLEFSRQEDDSTDLVTMVDGLGRTCTRLQNIHIASLKLSHTVVLSLTAVNFRYLRMLSLVLGINITDASVAAISSGYKNLELLDLSGSSITDTGLGMICDVLPDTLSKLLVALCPNITSSGIQFATAQLPLLELMDCGMTVSDPNSDNPTFVENPSPHKTPGYNQKMFIKHKRLKKLSLWGCSSLDALFLNCPELMDLNLNLCSNLHPESLVLQCPKLQLVYASGCQGLLTGAIRKQVSENFSAGENHMPRKRLADASKRIQALPSLYQETREDGIYAGKRRKLEKEMCTIIH |
| 6616 | sp|P08637|FCG3A\_HUMAN | MWQLLLPTALLLLVSAGMRTEDLPKAVVFLEPQWYRVLEKDSVTLKCQGAYSPEDNSTQWFHNESLISSQASSYFIDAATVDDSGEYRCQTNLSTLSDPVQLEVHIGWLLLQAPRWVFKEEDPIHLRCHSWKNTALHKVTYLQNGKGRKYFHHNSDFYIPKATLKDSGSYFCRGLFGSKNVSSETVNITITQGLAVSTISSFFPPGYQVSFCLVMVLLFAVDTGLYFSVKTNIRSSTRDWKDHKFKWRKDPQDK |
| 6617 | sp|O35568|FBLN3\_RAT | MLQTVFLTMLTLALVKSQVTEETITYTQCTDGYEWDPVRQQCKDIDECDIVPDACKGGMKCVNHYGGYLCLPKTAQIIVNNEQPQQETPAAEASSGAATGTIAARSMATSGVIPGGGFIASATAVAGPEVQTGRNNFVIRRNPADPQRIPSNPSHRIQCAAGYEQSEHNVCQDIDECTSGTHNCRLDQVCINLRGSFTCHCLPGYQKRGEQCVDIDECSVPPYCHQGCVNTPGSFYCQCNPGFQLAANNYTCVDINECDASNQCAQQCYNILGSFICQCNQGYELSSDRLNCEDIDECRTSSYLCQYQCVNEPGKFSCMCPQGYQVVRSRTCQDINECETTNECREDEMCWNYHGGFRCYPQNPCQDPYVLTSENRCVCPVSNTMCRDVPQSIVYKYMNIRSDRSVPSDIFQIQATTIYANTINTFRIKSGNENGEFYLRQTSPVSAMLVLVKSLTGPREHIVGLEMLTVSSIGTFRTSSVLRLTIIVGPFSF |
| 6618 | sp|Q96Q77|CIB3\_HUMAN | MGNKQTVFTHEQLEAYQDCTFFTRKEIMRLFYRYQDLAPQLVPLDYTTCPDVKVPYELIGSMPELKDNPFRQRIAQVFSEDGDGHMTLDNFLDMFSVMSEMAPRDLKAYYAFKIYDFNNDDYICAWDLEQTVTKLTRGGLSAEEVSLVCEKVLDEADGDHDGRLSLEDFQNMILRAPDFLSTFHIRI |
| 6619 | sp|Q8RWG2|CF107\_ARATH | MHFFFVPNSSSSSPSPANTSSFSLSFLTPQIPENLCKSPTKIHIGTHGISGQSFLSHPTFSSKNTYLYAVVDRSSSGVFSPQKESANGEGEESNTEEGVLVVRRPLLENSDKESSEEEGKKYPARIDAGLSNIAKKMPIFEPERSESSSSSSAAAAARAQERPLAVNLDLSLYKAKVLARNFRYKDAEKILEKCIAYWPEDGRPYVALGKILSKQSKLAEARILYEKGCQSTQGENSYIWQCWAVLENRLGNVRRARELFDAATVADKKHVAAWHGWANLEIKQGNISKARNLLAKGLKFCGRNEYIYQTLALLEAKAGRYEQARYLFKQATICNSRSCASWLAWAQLEIQQERYPAARKLFEKAVQASPKNRFAWHVWGVFEAGVGNVERGRKLLKIGHALNPRDPVLLQSLGLLEYKHSSANLARALLRRASELDPRHQPVWIAWGWMEWKEGNTTTARELYQRALSIDANTESASRCLQAWGVLEQRAGNLSAARRLFRSSLNINSQSYVTWMTWAQLEEDQGDTERAEEIRNLYFQQRTEVVDDASWVTGFLDIIDPALDTVKRLLNFGQNNDNNRLTTTLRNMNRTKDSQSNQQPESSAGREDIETGSGFNLDVFLRSKLSLDPLKLDVNLDSKRLERFTRGRINGA |
| 6620 | sp|Q96JP9|CDHR1\_HUMAN | MRRCRWAALALGLLRLCLAQANFAPHFFDNGVGSTNGNMALFSLPEDTPVGSHVYTLNGTDPEGDPISYHISFDPSTRSVFSVDPTFGNITLVEELDREREDEIEAIISISDGLNLVAEKVVILVTDANDEAPRFIQEPYVALVPEDIPAGSIIFKVHAVDRDTGSGGSVTYFLQNLHSPFAVDRHSGVLRLQAGATLDYERSRTHYITVVAKDGGGRLHGADVVFSATTTVTVNVEDVQDMAPVFVGTPYYGYVYEDTLPGSEVLKVVAMDGDRGKPNRILYSLVNGNDGAFEINETSGAISITQSPAQLQREVYELHVQVTEMSPAGSPAAQATVPVTIRIVDLNNHPPTFYGESGPQNRFELSMNEHPPQGEILRGLKITVNDSDQGANAKFNLQLVGPRGIFRVVPQTVLNEAQVTIIVENSAAIDFEKSKVLTFKLLAVEVNTPEKFSSTADVVIQLLDTNDNVPKFDSLYYVARIPENAPGGSSVVAVTAVDPDTGPWGEVKYSTYGTGADLFLIHPSTGLIYTQPWASLDAEATARYNFYVKAEDMEGKYSVAEVFITLLDVNDHPPQFGKSVQKKTMVLGTPVKIEAIDEDAEEPNNLVDYSITHAEPANVFDINSHTGEIWLKNSIRSLDALHNITPGRDCLWSLEVQAKDRGSPSFSTTALLKIDITDAETLSRSPMAAFLIQTKDNPMKAVGVLAGTMATVVAITVLISTATFWRNKKSNKVLPMRRVLRKRPSPAPRTIRIEWLKSKSTKAATKFMLKEKPPNENCNNNSPESSLLPRAPALPPPPSVAPSTGAAQWTVPTVSGSLTPQPTQPPPKPKTMGSPVQSTLISELKQKFEKKSVHNKAYF |
| 6621 | sp|Q86XR8|CEP57\_HUMAN | MAAASVSAASGSHLSNSFAEPSRSNGSMVRHSSSPYVVYPSDKPFLNSDLRRSPSKPTLAYPESNSRAIFSALKNLQDKIRRLELERIQAEESVKTLSRETIEYKKVLDEQIQERENSKNEESKHNQELTSQLLAAENKCNLLEKQLEYMRNMIKHAEMERTSVLEKQVSLERERQHDQTHVQSQLEKLDLLEQEYNKLTTMQALAEKKMQELEAKLHEEEQERKRMQAKAAELQTGLETNRLIFEDKATPCVPNARRIKKKKSKPPEKKSSRNYFGAQPHYRLCLGDMPFVAGKSTSPSHAVVANVQLVLHLMKQHSKALCNDRVINSIPLAKQVSSRGGKSKKLSVTPPSSNGINEELSEVLQTLQDEFGQMSFDHQQLAKLIQESPTVELKDKLECELEALVGRMEAKANQITKVRKYQAQLEKQKLEKQKKELKATKKTLDEERNSSSRSGITGTTNKKDFMKLRPGEKRRKNLQLLKDMQSIQNSLQSSSLCWDY |
| 6622 | sp|Q9D7Z6|CLCA1\_MOUSE | MESLKSPVFLLILHLLEGVLSESLIQLNNNGYEGIVIAIDHDVPEDEALIQHIKDMVTQASPYLFEATGKRFYFKNVAILIPESWKAKPEYTRPKLETFKNADVLVSTTSPLGNDEPYTEHIGACGEKGIRIHLTPDFLAGKKLTQYGPQDRTFVHEWAHFRWGVFNEYNNDEKFYLSKGKPQAVRCSAAITGKNQVRRCQGGSCITNGKCVIDRVTGLYKDNCVFVPDPHQNEKASIMFNQNINSVVEFCTEKNHNQEAPNDQNQRCNLRSTWEVIQESEDFKQTTPMTAQPPAPTFSLLQIGQRIVCLVLDKSGSMLNDDRLNRMNQASRLFLLQTVEQGSWVGMVTFDSAAYVQSELKQLNSGADRDLLIKHLPTVSAGGTSICSGLRTAFTVIKKKYPTDGSEIVLLTDGEDNTISSCFDLVKQSGAIIHTVALGPAAAKELEQLSKMTGGLQTYSSDQVQNNGLVDAFAALSSGNAAIAQHSIQLESRGVNLQNNQWMNGSVIVDSSVGKDTLFLITWTTHPPTIFIWDPSGVEQNGFILDTTTKVAYLQVPGTAKVGFWKYSIQASSQTLTLTVTSRAASATLPPITVTPVVNKNTGKFPSPVTVYASIRQGASPILRASVTALIESVNGKTVTLELLDNGAGADATKNDGVYSRFFTAFDANGRYSVKIWALGGVTSDRQRAAPPKNRAMYIDGWIEDGEVRMNPPRPETSYVQDKQLCFSRTSSGGSFVATNVPAAAPIPDLFPPCQITDLKASIQGQNLVNLTWTAPGDDYDHGRASNYIIRMSTSIVDLRDHFNTSLQVNTTGLIPKEASSEEIFEFELGGNTFGNGTDIFIAIQAVDKSNLKSEISNIARVSVFIPAQEPPIPEDSTPPCPDISINSTIPGIHVLKIMWKWLGEMQVTLGLH |
| 6623 | sp|Q9H305|CDIP1\_HUMAN | MSSEPPPPYPGGPTAPLLEEKSGAPPTPGRSSPAVMQPPPGMPLPPADIGPPPYEPPGHPMPQPGFIPPHMSADGTYMPPGFYPPPGPHPPMGYYPPGPYTPGPYPGPGGHTATVLVPSGAATTVTVLQGEIFEGAPVQTVCPHCQQAITTKISYEIGLMNFVLGFFCCFMGCDLGCCLIPCLINDFKDVTHTCPSCKAYIYTYKRLC |
| 6624 | sp|Q924Z4|CERS2\_MOUSE | MLQTLYDYFWWERLWLPVNLTWADLEDKDGRVYAKASDLYITLPLALLFLVIRYFFELYVATPLAALLNVKEKTRLRAPPNATLEHFYQTSGKQPKQVEVDLLSRQSGLSGRQVERWFRRRRNQDRPSLLKKFREASWRFTYYLIAFVAGMAVTVDKPWFYDLRKVWEGYPIQSIIPSQYWYYMIELSFYWSLLFSIASDVKRKDFKEQIIHHVATIILLCFSWFANYVRAGTLIMALHDASDYLLESAKMFNYAGWKNTCNNLFIVFAIVFIITRLVIMPFWILHCTMIYPLELYPAFFGYYFFNFMMAVLQMLHIFWAYFILRMAHKFITGKLIEDERSDREETESSEGEETAAGAGAKSRLLANGHPILNNNHPKND |
| 6625 | sp|Q8IU89|CERS3\_HUMAN | MFWTFKEWFWLERFWLPPTIKWSDLEDHDGLVFVKPSHLYVTIPYAFLLLIIRRVFEKFVASPLAKSFGIKETVRKVTPNTVLENFFKHSTRQPLQTDIYGLAKKCNLTERQVERWFRSRRNQERPSRLKKFQEACWRFAFYLMITVAGIAFLYDKPWLYDLWEVWNGYPKQPLLPSQYWYYILEMSFYWSLLFRLGFDVKRKDFLAHIIHHLAAISLMSFSWCANYIRSGTLVMIVHDVADIWLESAKMFSYAGWTQTCNTLFFIFSTIFFISRLIVFPFWILYCTLILPMYHLEPFFSYIFLNLQLMILQVLHLYWGYYILKMLNRCIFMKSIQDVRSDDEDYEEEEEEEEEEATKGKEMDCLKNGLRAERHLIPNGQHGH |
| 6626 | sp|Q8WXI2|CNKR2\_HUMAN | MALIMEPVSKWSPSQVVDWMKGLDDCLQQYIKNFEREKISGDQLLRITHQELEDLGVSRIGHQELILEAVDLLCALNYGLETENLKTLSHKLNASAKNLQNFITGRRRSGHYDGRTSRKLPNDFLTSVVDLIGAAKSLLAWLDRSPFAAVTDYSVTRNNVIQLCLELTTIVQQDCTVYETENKILHVCKTLSGVCDHIISLSSDPLVSQSAHLEVIQLANIKPSEGLGMYIKSTYDGLHVITGTTENSPADRCKKIHAGDEVIQVNHQTVVGWQLKNLVNALREDPSGVILTLKKRPQSMLTSAPALLKNMRWKPLALQPLIPRSPTSSVATPSSTISTPTKRDSSALQDLYIPPPPAEPYIPRDEKGNLPCEDLRGHMVGKPVHKGSESPNSFLDQEYRKRFNIVEEDTVLYCYEYEKGRSSSQGRRESTPTYGKLRPISMPVEYNWVGDYEDPNKMKRDSRRENSLLRYMSNEKIAQEEYMFQRNSKKDTGKKSKKKGDKSNSPTHYSLLPSLQMDALRQDIMGTPVPETTLYHTFQQSSLQHKSKKKNKGPIAGKSKRRISCKDLGRGDCEGWLWKKKDAKSYFSQKWKKYWFVLKDASLYWYINEEDEKAEGFISLPEFKIDRASECRKKYAFKACHPKIKSFYFAAEHLDDMNRWLNRINMLTAGYAERERIKQEQDYWSESDKEEADTPSTPKQDSPPPPYDTYPRPPSMSCASPYVEAKHSRLSSTETSQSQSSHEEFRQEVTGSSAVSPIRKTASQRRSWQDLIETPLTSSGLHYLQTLPLEDSVFSDSAAISPEHRRQSTLPTQKCHLQDHYGPYPLAESERMQVLNGNGGKPRSFTLPRDSGFNHCCLNAPVSACDPQDDVQPPEVEEEEEEEEEEGEAAGENIGEKSESREEKLGDSLQDLYRALEQASLSPLGEHRISTKMEYKLSFIKRCNDPVMNEKLHRLRILKSTLKAREGEVAIIDKVLDNPDLTSKEFQQWKQMYLDLFLDICQNTTSNDPLSISSEVDVITSSLAHTHSYIETHV |
| 6627 | sp|P21844|CMA1\_MOUSE | MHLLTLHLLLLLLGSSTKAGEIIGGTECIPHSRPYMAYLEIVTSENYLSACSGFLIRRNFVLTAAHCAGRSITVLLGAHNKTSKEDTWQKLEVEKQFLHPKYDENLVVHDIMLLKLKEKAKLTLGVGTLPLSANFNFIPPGRMCRAVGWGRTNVNEPASDTLQEVKMRLQEPQACKHFTSFRHNSQLCVGNPKKMQNVYKGDSGGPLLCAGIAQGIASYVHRNAKPPAVFTRISHYRPWINKILREN |
| 6628 | sp|Q8R4N0|CLYBL\_MOUSE | MALCVLRNTVRGAAALPRLKASHVVSVYKPRYSSLSNHKYVPRRAVLYVPGNDEKKIRKIPSLKVDCAVLDCEDGVAENKKNEARLRIAKTLEDFDLGTTEKCVRINSVSSGLAEVDLETFLQARVLPSSLMLPKVEGPEEIRWFSDKFSLHLKGRKLEQPMNLIPFVETAMGLLNFKAVCEETLKTGPQVGLCLDAVVFGGEDFRASIGATSNKDTQDILYARQKVVVTAKAFGLQAIDLVYIDFRDEDGLLRQSREAAAMGFTGKQVIHPNQIAVVQEQFTPTPEKIQWAEELIAAFKEHQQLGKGAFTFRGSMIDMPLLKQAQNIVTLATSIKEK |
| 6629 | sp|A8TX70|CO6A5\_HUMAN | MKILLIIFVLIIWTETLADQSPGPGPVYADVVFLVDSSDHLGPKSFPFVKTFINKMINSLPIEANKYRVALAQYSDEFHSEFHLSTFKGRSPMLNHLKKNFQFIGGSLQIGKALQEAHRTYFSAPINGRDRKQFPPILVVLASAESEDEVEEASKALQKDGVKIISVGVQKASEENLKAMATSHFHFNLRTIRDLSTFSQNMTQIIKDVTKYKEGAVDADMQVHFPISCQKDSLADLVFLVDESLGTGGNLRHLQTFLENITSSMDVKENCMRLGLMSYSNSAKTISFLKSSTTQSEFQQQIKNLSIQVGKSNTGAAIDQMRRDGFSESYGSRRAQGVPQIAVLVTHRPSDDEVHDAALNLRLEDVNVFALSIQGANNTQLEEIVSYPPEQTISTLKSYADLETYSTKFLKKLQNEIWSQISTYAEQRNLDKTGCVDTKEADIHFLIDGSSSIQEKQFEQIKRFMLEVTEMFSIGPDKVRVGVVQYSDDTEVEFYITDYSNDIDLRKAIFNIKQLTGGTYTGKALDYILQIIKNGMKDRMSKVPCYLIVLTDGMSTDRVVEPAKRLRAEQITVHAVGIGAANKIELQEIAGKEERVSFGQNFDALKSIKNEVVREICAEKGCEDMKADIMFLVDSSWSIGNENFRKMKIFMKNLLTKIQIGADKTQIGVVQFSDKTKEEFQLNRYFTQQEISDAIDRMSLINEGTLTGKALNFVGQYFTHSKGARLGAKKFLILITDGVAQDDVRDPARILRGKDVTIFSVGVYNANRSQLEEISGDSSLVFHVENFDHLKALERKLIFRVCALHDCKRITLLDVVFVLDHSGSIKKQYQDHMINLTIHLVKKADVGRDRVQFGALKYSDQPNILFYLNTYSNRSAIIENLRKRRDTGGNTYTAKALKHANALFTEEHGSRIKQNVKQMLIVITDGESHDHDQLNDTALELRNKGITIFAVGVGKANQKELEGMAGNKNNTIYVDNFDKLKDVFTLVQERMCTEAPEVCHLQEADVIFLCDGSDRVSNSDFVTMTTFLSDLIDNFDIQSQRMKIGMAQFGSNYQSIIELKNSLTKTQWKTQIQNVSKSGGFPRIDFALKKVSNMFNLHAGGRRNAGVPQTLVVITSGDPRYDVADAVKTLKDLGICVLVLGIGDVYKEHLLPITGNSEKIITFQDFDKLKNVDVKKRIIREICQSCGKTNCFMDIVVGFDISTHVQGQPLFQGHPQLESYLPGILEDISSIKGVSCGAGTEAQVSLAFKVNSDQGFPAKFQIYQKAVFDSLLQVNVSGPTHLNAQFLRSLWDTFKDKSASRGQVLLIFSDGLQSESNIMLENQSDRLREAGLDALLVVSLNTTAHHEFSSFEFGKRFDYRTHLTIGMRELGKKLSQYLGNIAERTCCCTFCKCPGIPGPHGTRGLQAMKGSQGLKGSRGHRGEDGNPGVRGDTGPQGDKGIAGCPGAWGQKGLKGFSGPKGGHGDDGIDGLDGEEGCHGFPGIKGEKGDPGSQGSPGSRGAPGQYGEKGFPGDPGNPGQNNNIKGQKGSKGEQGRQGRSGQKGVQGSPSSRGSRGREGQRGLRGVSGEPGNPGPTGTLGAEGLQGPQGSQGNPGRKGEKGSQGQKGPQGSPGLMGAKGSTGRPGLLGKKGEPGLPGDLGPVGQTGQRGRQGDSGIPGYGQMGRKGVKGPRGFPGDAGQKGDIGNPGIPGGPGPKGFRGLALTVGLKGEEGSRGLPGPPGQRGIKGMAGQPVYSQCDLIRFLREHSPCWKEKCPAYPTELVFALDNSYDVTEESFNKTRDIITSIVNDLNIRENNCPVGARVAMVSYNSGTSYLIRWSDYNRKKQLLQQLSQIKYQDTTEPRDVGNAMRFVTRNVFKRTYAGANVRRVAVFFSNGQTASRSSIITATMEFSALDISPTVFAFDERVFLEAFGFDNTGTFQVIPVPPNGENQTLERLRRCALCYDKCFPNACIREAFLPEDSYMDVVFLIDNSRNIAKDEFKAVKALVSSVIDNFNIASDPLISDSGDRIALLSYSPWESSRRKMGTVKTEFDFITYDNQLLMKNHIQTSFQQLNGEATIGRALLWTTENLFPETPYLRKHKVIFVVSAGENYERKEFVKMMALRAKCQGYVIFVISLGSTRKDDMEELASYPLDQHLIQLGRIHKPDLNYIAKFLKPFLYSVRRGFNQYPPPMLEDACRLINLGGENIQNDGFQFVTELQEDFLGGNGFIGQELNSGRESPFVKTEDNGSDYLVYLPSQMFEPQKLMINYEKDQKSAEIASLTSGHENYGRKEEPDHTYEPGDVSLQEYYMDVAFLIDASQRVGSDEFKEVKAFITSVLDYFHIAPTPLTSTLGDRVAVLSYSPPGYMPNTEECPVYLEFDLVTYNSIHQMKHHLQDSQQLNGDVFIGHALQWTIDNVFVGTPNLRKNKVIFVISAGETNSLDKDVLRNVSLRAKCQGYSIFVFSFGPKHNDKELEELASHPLDHHLVQLGRTHKPDWNYIIKFVKPFVHLIRRAINKYPTEDMKATCVNMTSPNPENGGTENTVLLLPGIYEIKTENGDLFDEFDSQAQHLLVLGNNHSSGSETATDLMQKLYLLFSTEKLAMKDKEKAHLEEISALVVDKQQEKEDKEMEATDI |
| 6630 | sp|Q9HWC1|COAX\_PSEAE | MILELDCGNSLIKWRVIEGAARSVAGGLAESDDALVEQLTSQQALPVRACRLVSVRSEQETSQLVARLEQLFPVSALVASSGKQLAGVRNGYLDYQRLGLDRWLALVAAHHLAKKACLVIDLGTAVTSDLVAADGVHLGGYICPGMTLMRSQLRTHTRRIRYDDAEARRALASLQPGQATAEAVERGCLLMLRGFVREQYAMACELLGPDCEIFLTGGDAELVRDELAGARIMPDLVFVGLALACPIE |
| 6631 | sp|Q99439|CNN2\_HUMAN | MSSTQFNKGPSYGLSAEVKNRLLSKYDPQKEAELRTWIEGLTGLSIGPDFQKGLKDGTILCTLMNKLQPGSVPKINRSMQNWHQLENLSNFIKAMVSYGMNPVDLFEANDLFESGNMTQVQVSLLALAGKAKTKGLQSGVDIGVKYSEKQERNFDDATMKAGQCVIGLQMGTNKCASQSGMTAYGTRRHLYDPKNHILPPMDHSTISLQMGTNKCASQVGMTAPGTRRHIYDTKLGTDKCDNSSMSLQMGYTQGANQSGQVFGLGRQIYDPKYCPQGTVADGAPSGTGDCPDPGEVPEYPPYYQEEAGY |
| 6632 | sp|Q6P9H4|CNKR3\_HUMAN | MEPVTKWSPKQVVDWTRGLDDCLQQYVHKFEREKINGEQLLQISHQDLEELGVTRIGHQELVLEAVDLLCALNYGLETDNMKNLVLKLRASSHNLQNYISSRRKSPAYDGNTSRKAPNEFLTSVVELIGAAKALLAWLDRAPFTGITDFSVTKNKIIQLCLDLTTTVQKDCFVAEMEDKVLTVVKVLNGICDKTIRSTTDPVMSQCACLEEVHLPNIKPGEGLGMYIKSTYDGLHVITGTTENSPADRSQKIHAGDEVIQVNQQTVVGWQLKNLVKKLRENPTGVVLLLKKRPTGSFNFTPAPLKNLRWKPPLVQTSPPPATTQSPESTMDTSLKKEKSAILDLYIPPPPAVPYSPRDENGSFVYGGSSKCKQPLPGPKGSESPNSFLDQESRRRRFTIADSDQLPGYSVETNILPTKMREKTPSYGKPRPLSMPADGNWMGIVDPFARPRGHGRKGEDALCRYFSNERIPPIIEESSSPPYRFSRPTTERHLVRGADYIRGSRCYINSDLHSSATIPFQEEGTKKKSGSSATKSSSTEPSLLVSWFTRLKLLTH |
| 6633 | sp|Q3E846|COA6\_YEAST | MGLFSFDGGKKESQPPNTRSQRKLCWESRDAFFQCLDKADILDAMDPKNSKSIKSHCKVENEKFEENCAHSWIKYFKEKRVIDFKREQTIKRIEQEAKQRERNQ |
| 6634 | sp|Q93WX6|CNIF1\_ARATH | MEGVAMKLPSFPNAISIGHRSFSRVRCSSSLSVCSAAAASSATISTDSESVSLGHRVRKDFRILHQEVNGSKLVYLDSAATSQKPAAVLDALQNYYEFYNSNVHRGIHYLSAKATDEFELARKKVARFINASDSREIVFTRNATEAINLVAYSWGLSNLKPGDEVILTVAEHHSCIVPWQIVSQKTGAVLKFVTLNEDEVPDINKLRELISPKTKLVAVHHVSNVLASSLPIEEIVVWAHDVGAKVLVDACQSVPHMVVDVQKLNADFLVASSHKMCGPTGIGFLYGKSDLLHSMPPFLGGGEMISDVFLDHSTYAEPPSRFEAGTPAIGEAIALGAAVDYLSGIGMPKIHEYEVEIGKYLYEKLSSLPDVRIYGPRPSESVHRGALCSFNVEGLHPTDLATFLDQQHGVAIRSGHHCAQPLHRYLGVNASARASLYFYNTKDDVDAFIVALADTVSFFNSFK |
| 6635 | sp|Q8BSP2|CNDH2\_MOUSE | MEDVEVRFAHLLQPIRDLTKNWEVDVAAQLGEYLEELDQICISFDEGKTTMNFIEAALLIQGSACVYSKKVEYLYSLVYQALDFISGKRRAKQLSLVQEDGSKKTVNSETPCETENEFLSLDDFPDSRANVDLKNDQASSELLIIPLLPMALVAPDEVEKNSSPLYSCQGDILASRKDFRMNTCMPNPRGCFMLDPVGMCPVEPVVPVEPYPMSRSQKDPEDAEEQPMEVSRNGSPVPVPDISQEPDGPALSGGEEDAEDGAEPLEVALEPAEPRTSQQSAILPRRYMLRERQGAPEPASRLQETPDPWQSLDPFDSLESKVFQKGKPYSVPPGVEEAPGQKRKRKGATKLQDFHKWYLDAYAEHPDGRRARRKGPTFADMEVLYWKHVKEQLETLQKLRRRKINERWLPGAKQDLWPTEEDRLEESLEDLGVADDFLEPEEYVEEPAGVMPEEAADLDAEAMPESLRYEELVRRNVELFIATSQKFIQETELSQRIRDWEDTIQPLLQEQEQHVPFDIHIYGDQLASRFPQLNEWCPFSELVAGQPAFEVCRSMLASLQLANDYTVEITQQPGLEAAVDTMSLRLLTHQRAHTRFQTYAAPSMAQP |
| 6636 | sp|Q9ULV3|CIZ1\_HUMAN | MFSQQQQQQLQQQQQQLQQLQQQQLQQQQLQQQQLLQLQQLLQQSPPQAPLPMAVSRGLPPQQPQQPLLNLQGTNSASLLNGSMLQRALLLQQLQGLDQFAMPPATYDTAGLTMPTATLGNLRGYGMASPGLAAPSLTPPQLATPNLQQFFPQATRQSLLGPPPVGVPMNPSQFNLSGRNPQKQARTSSSTTPNRKDSSSQTMPVEDKSDPPEGSEEAAEPRMDTPEDQDLPPCPEDIAKEKRTPAPEPEPCEASELPAKRLRSSEEPTEKEPPGQLQVKAQPQARMTVPKQTQTPDLLPEALEAQVLPRFQPRVLQVQAQVQSQTQPRIPSTDTQVQPKLQKQAQTQTSPEHLVLQQKQVQPQLQQEAEPQKQVQPQVQPQAHSQGPRQVQLQQEAEPLKQVQPQVQPQAHSQPPRQVQLQLQKQVQTQTYPQVHTQAQPSVQPQEHPPAQVSVQPPEQTHEQPHTQPQVSLLAPEQTPVVVHVCGLEMPPDAVEAGGGMEKTLPEPVGTQVSMEEIQNESACGLDVGECENRAREMPGVWGAGGSLKVTILQSSDSRAFSTVPLTPVPRPSDSVSSTPAATSTPSKQALQFFCYICKASCSSQQEFQDHMSEPQHQQRLGEIQHMSQACLLSLLPVPRDVLETEDEEPPPRRWCNTCQLYYMGDLIQHRRTQDHKIAKQSLRPFCTVCNRYFKTPRKFVEHVKSQGHKDKAKELKSLEKEIAGQDEDHFITVDAVGCFEGDEEEEEDDEDEEEIEVEEELCKQVRSRDISREEWKGSETYSPNTAYGVDFLVPVMGYICRICHKFYHSNSGAQLSHCKSLGHFENLQKYKAAKNPSPTTRPVSRRCAINARNALTALFTSSGRPPSQPNTQDKTPSKVTARPSQPPLPRRSTRLKT |
| 6637 | sp|P92937|CIPKF\_ARATH | MEKKGSVLMLRYEVGKFLGQGTFAKVYHARHLKTGDSVAIKVIDKERILKVGMTEQIKREISAMRLLRHPNIVELHEVMATKSKIYFVMEHVKGGELFNKVSTGKLREDVARKYFQQLVRAVDFCHSRGVCHRDLKPENLLLDEHGNLKISDFGLSALSDSRRQDGLLHTTCGTPAYVAPEVISRNGYDGFKADVWSCGVILFVLLAGYLPFRDSNLMELYKKIGKAEVKFPNWLAPGAKRLLKRILDPNPNTRVSTEKIMKSSWFRKGLQEEVKESVEEETEVDAEAEGNASAEKEKKRCINLNAFEIISLSTGFDLSGLFEKGEEKEEMRFTSNREASEITEKLVEIGKDLKMKVRKKEHEWRVKMSAEATVVEAEVFEIAPSYHMVVLKKSGGDTAEYKRVMKESIRPALIDFVLAWH |
| 6638 | sp|Q9R0Q8|CLC4E\_MOUSE | MNSTKSPASHHTERGCFKNSQVLSWTIAGASILFLSGCFITRCVVTYRSSQISGQNLQPHRNIKELSCYSEASGSVKNCCPLNWKHYQSSCYFFSTTTLTWSSSLKNCSDMGAHLVVIDTQEEQEFLFRTKPKRKEFYIGLTDQVVEGQWQWVDDTPFTESLSFWDAGEPNNIVLVEDCATIRDSSNSRKNWNDIPCFYSMPWICEMPEISPLD |
| 6639 | sp|Q96SZ6|CK5P1\_HUMAN | MHPLQCVLQVQRSLGWGPLASVSWLSLRMCRAHSSLSSTMCPSPERQEDGARKDFSSRLAAGPTFQHFLKSASAPQEKLSSEVEDPPPYLMMDELLGRQRKVYLETYGCQMNVNDTEIAWSILQKSGYLRTSNLQEADVILLVTCSIREKAEQTIWNRLHQLKALKTRRPRSRVPLRIGILGCMAERLKEEILNREKMVDILAGPDAYRDLPRLLAVAESGQQAANVLLSLDETYADVMPVQTSASATSAFVSIMRGCDNMCSYCIVPFTRGRERSRPIASILEEVKKLSEQVFLPPRPPKVLGLQGLKEVTLLGQNVNSFRDNSEVQFNSAVPTNLSRGFTTNYKTKQGGLRFAHLLDQVSRVDPEMRIRFTSPHPKDFPDEVLQLIHERDNICKQIHLPAQSGSSRVLEAMRRGYSREAYVELVHHIRESIPGVSLSSDFIAGFCGETEEDHVQTVSLLREVQYNMGFLFAYSMRQKTRAYHRLKDDVPEEVKLRRLEELITIFREEATKANQTSVGCTQLVLVEGLSKRSATDLCGRNDGNLKVIFPDAEMEDVNNPGLRVRAQPGDYVLVKITSASSQTLRGHVLCRTTLRDSSAYC |
| 6640 | sp|Q9UBR5|CKLF\_HUMAN | MDNVQPKIKHRPFCFSVKGHVKMLRLALTVTSMTFFIIAQAPEPYIVITGFEVTVILFFILLYVLRLDRLMKWLFWPLLDIINSLVTTVFMLIVSVLALIPETTTLTVGGGVFALVTAVCCLADGALIYRKLLFNPSGPYQKKPVHEKKEVL |
| 6641 | sp|P49760|CLK2\_HUMAN | MPHPRRYHSSERGSRGSYREHYRSRKHKRRRSRSWSSSSDRTRRRRREDSYHVRSRSSYDDRSSDRRVYDRRYCGSYRRNDYSRDRGDAYYDTDYRHSYEYQRENSSYRSQRSSRRKHRRRRRRSRTFSRSSSQHSSRRAKSVEDDAEGHLIYHVGDWLQERYEIVSTLGEGTFGRVVQCVDHRRGGARVALKIIKNVEKYKEAARLEINVLEKINEKDPDNKNLCVQMFDWFDYHGHMCISFELLGLSTFDFLKDNNYLPYPIHQVRHMAFQLCQAVKFLHDNKLTHTDLKPENILFVNSDYELTYNLEKKRDERSVKSTAVRVVDFGSATFDHEHHSTIVSTRHYRAPEVILELGWSQPCDVWSIGCIIFEYYVGFTLFQTHDNREHLAMMERILGPIPSRMIRKTRKQKYFYRGRLDWDENTSAGRYVRENCKPLRRYLTSEAEEHHQLFDLIESMLEYEPAKRLTLGEALQHPFFARLRAEPPNKLWDSSRDISR |
| 6642 | sp|Q7TSN2|CLM4\_MOUSE | MIPRVIRLWLPSALFLSQVPGCVPLHGPSTITGAVGESLSVSCQYEEKFKTKDKFWCRGSLKVLCKDIVKTSSSEEVRNGRVTIRDHPDNLTFTVTYESLTLEDADTYMCAVDISLFDGSLGFDKYFKIELSVVPSEDPVTGSSLESGRDILESPTSSVGHTHPSVTTDDTIPAPCPQPRSLRSSLYFWVLVSLKLFLFLSMLGAVLWVNRPQRCSGGSSSRPCYENQ |
| 6643 | sp|Q9P126|CLC1B\_HUMAN | MQDEDGYITLNIKTRKPALISVGSASSSWWRVMALILLILCVGMVVGLVALGIWSVMQRNYLQGENENRTGTLQQLAKRFCQYVVKQSELKGTFKGHKCSPCDTNWRYYGDSCYGFFRHNLTWEESKQYCTDMNATLLKIDNRNIVEYIKARTHLIRWVGLSRQKSNEVWKWEDGSVISENMFEFLEDGKGNMNCAYFHNGKMHPTFCENKHYLMCERKAGMTKVDQLP |
| 6644 | sp|P56747|CLD6\_HUMAN | MASAGMQILGVVLTLLGWVNGLVSCALPMWKVTAFIGNSIVVAQVVWEGLWMSCVVQSTGQMQCKVYDSLLALPQDLQAARALCVIALLVALFGLLVYLAGAKCTTCVEEKDSKARLVLTSGIVFVISGVLTLIPVCWTAHAIIRDFYNPLVAEAQKRELGASLYLGWAASGLLLLGGGLLCCTCPSGGSQGPSHYMARYSTSAPAISRGPSEYPTKNYV |
| 6645 | sp|Q5A4H5|CRZ1\_CANAL | MSNNPHPQDDGSQLYDNFEISPPSIVIRKADTDQSLNKIMLNQESQDINNYYTENVKNDNNPNNSYQDYTFSGNSSNQQHQQQQQQHLYEDLPTQFHYSNNSFFEPPPAPTVELTDDPLPNFNYPPSNIYINDNASDISLNTKDLPQFTTNEFLSPTSQLSTPFSPGHYSQSSQDFLQVNHTNGSGNNNNNNNNNNLLNPRSPSQYSSHSLYSDNSSQPASPFLDAASHVSNNSFIPPVIPTALSDVGSQNLDPSHNLGLSANQHFDSVNEFLSTGEIQLGQSVSSTNLPSMEEDSIKWGGGNGQEAYTSLAMMEQRASADNSGMRLATHQFSETQIKQEDQQTNMNHQYTFSNPQMNFDFDITVTPPPQQLEVKPFGNDKDMNNSSGTTNNNNNNSQFDIVSTAATNNSNQLLTENNLSNYNQLQRTEQGNDNDSLQIHRDATGIIISINQAPEEIAAKTPSLFSNSSANSSIHNSPRSDIDNKSGQYYNNGGDGNSLVPNSQLLPSSPNSNNDNYGGGGSSNDENNLLNPEEFQSVKRGRRKSHASRTSTNPNSLSPRSRSRSRSSAKSSNDAVISDNDESDDVLQSREKMLELALPSSSSKRTQKHPSLYACHLCDKRFTRPYNLKSHIRTHTQEKPFICSKCGKSFARSHDKKRHELLHQGIKNFKCEGYLQDGTRWGCGKSFARADALRRHFQTEAGKQCVKRLLLEEQANSSGKPLATSSGVEIT |
| 6646 | sp|O64817|CSK23\_ARATH | MSKARVYTDVNVVRPKEYWDYESLVVQWGHQDDYEVVRKVGRGKYSEVFEGKNVNTNERCVIKILKPVKKKKIKREIKILQNLCGGPNIVKLYDIVRDEHSKTPSLVFEFVNSVDFKVLYPTLTDYDIRYYIYELLKALDFCHSQGIMHRDVKPHNVMIDHQLRKLRLIDWGLAEFYHPGKEYNVRVASRYFKGPELLVDLQDYDYSLDMWSLGCMFAGMIFRKEPFFYGHDNHDQLVKIAKVLGTNELDHYLNKYQLDLDPQLEALVGRHVPKPWSKFINADNQHLVSPEAIDFLDKLLQYDHQDRLTAREAMDHPYFAQVKAAESSRLRTQ |
| 6647 | sp|Q9FSH9|CONG1\_LUPAL | MAKNMAPILHILVISLSYSFLFVTSSSQNSQSLYHNSQPTSSSKPNLLVLPIQQDASTKLHWGNILKRTPLMQVPVLLDLNGKHLWVTCSQHYSSSTYQAPFCHSTQCSRANTHQCFTCTDSTTSRPGCHNNTCGLISSNPVTQESGLGELAQDVLALHSTHGSKLGSLVKIPQFLFSCAPTFLTQKGLPNNVQGALGLGHAPISLPNQLFSHFGLKRQFTMCLSSYPTSNGAILFGDINDPNNNNYIHNSLDVLHDMVYTPLTISKQGEYFIQVSAIRVNKHMVIPTKNPSMFPSSSSSSYHESSEIGGAMITTTNPYTVLRHSIFEVFTQVFANNVPKQAQVKAVGPFGLCYDTKKISGGVPSVDLIMDKSDVVWRISGENLMVQAQDGVSCLGFVDGGVHTRAGIALGTHQLEENLVVFDLARSRVGFNTNSLKSHGKSCSNLFDLNNP |
| 6648 | sp|P19784|CSK22\_HUMAN | MPGPAAGSRARVYAEVNSLRSREYWDYEAHVPSWGNQDDYQLVRKLGRGKYSEVFEAINITNNERVVVKILKPVKKKKIKREVKILENLRGGTNIIKLIDTVKDPVSKTPALVFEYINNTDFKQLYQILTDFDIRFYMYELLKALDYCHSKGIMHRDVKPHNVMIDHQQKKLRLIDWGLAEFYHPAQEYNVRVASRYFKGPELLVDYQMYDYSLDMWSLGCMLASMIFRREPFFHGQDNYDQLVRIAKVLGTEELYGYLKKYHIDLDPHFNDILGQHSRKRWENFIHSENRHLVSPEALDLLDKLLRYDHQQRLTAKEAMEHPYFYPVVKEQSQPCADNAVLSSGLTAAR |
| 6649 | sp|Q66HA2|CR3L1\_RAT | MDAVLEPFPADRLFPGSSFLDLGDLNESDFLNNAHFPEHLDHFVENMEDFSNDLFSSFFDDPVLDEKSPLLDMELDSPAPGIQAEHSYSLSGDSAPQSPLVPVKMEDTTQDMEHGAWALGNKLCSIMVKQEQSPELPVDPLAASSAMAAATMATPPLLGLSPISRLPIPHQAPGEMTQLPVIKAEPPEMSQFLKVTQEDLVQMPPTPPSSHGSDSDGSQSPRSLPPSSPVRPMARSSTAISTSPLLTAPHKLQGTSGPLLLTEEEKRTLIAEGYPIPTKLPLTKAEEKALKRVRRKIKNKISAQESRRKKKEYVECLEKKVETYTSENNELWKKVETLETANRTLLQQLQKLQTLVTSKISRPYKMAATQTGTCLMVAALCFVLVLGSLAPCLPAFSSGSKTVKEDPVAADSVYAASQMPSRSLLFYDDGAGSWEDGHRGALLPVEPPEGWELKPGGPAEPRPQDHLRHDHADSIHETTKYLRETWPEDTEDNGASPNFSHPKEWFHDRDLGPNTTIKLS |
| 6650 | sp|P53318|COQ6\_YEAST | MFFSKVMLTRRILVRGLATAKSSAPKLTDVLIVGGGPAGLTLAASIKNSPQLKDLKTTLVDMVDLKDKLSDFYNSPPDYFTNRIVSVTPRSIHFLENNAGATLMHDRIQSYDGLYVTDGCSKATLDLARDSMLCMIEIINIQASLYNRISQYDSKKDSIDIIDNTKVVNIKHSDPNDPLSWPLVTLSNGEVYKTRLLVGADGFNSPTRRFSQIPSRGWMYNAYGVVASMKLEYPPFKLRGWQRFLPTGPIAHLPMPENNATLVWSSSERLSRLLLSLPPESFTALINAAFVLEDADMNYYYRTLEDGSMDTDKLIEDIKFRTEEIYATLKDESDIDEIYPPRVVSIIDKTRARFPLKLTHADRYCTDRVALVGDAAHTTHPLAGQGLNMGQTDVHGLVYALEKAMERGLDIGSSLSLEPFWAERYPSNNVLLGMADKLFKLYHTNFPPVVALRTFGLNLTNKIGPVKNMIIDTLGGNEK |
| 6651 | sp|Q06705|CSR1\_YEAST | MSFDRQLTEDQEVVLKQIWTHLFHLWQVPVDGTHIFPNNSLHSSSTPAKKKKSSWFSKLQSSDHTQDSSEAAEAAHLYEKGKIHKALANLDPQTTKKQFWHDIKNETPDATILKFIRARKWNADKTIAMLGHDLYWRKDTINKIINGGERAVYENNETGVIKNLELQKATIQGYDNDMRPVILVRPRLHHSSDQTEQELEKFSLLVIEQSKLFFKENYPASTTILFDLNGFSMSNMDYAPVKFLITCFEAHYPESLGHLLIHKAPWIFNPIWNIIKNWLDPVVASKIVFTKNIDELHKFIQPQYIPRYLGGENDNDLDHYTPPDGSLDVHLKDTETRAMIEKEREELVEQFLTVTAQWIEHQPLNDPAYIQLQEKRVQLSTALCENYSKLDPYIRSRSVYDYNGSLKV |
| 6652 | sp|Q07560|CRD1\_YEAST | MIQMVPIYSCSALLRRTIPKRPFYHVLSGLTVRFKVNPQLNYNLFRDLTRREYATNPSKTPHIKSKLLNIPNILTLSRIGCTPFIGLFIITNNLTPALGLFAFSSITDFMDGYIARKYGLKTIAGTILDPLADKLLMITTTLALSVPSGPQIIPVSIAAIILGRDVLLAISALFIRYSTLKLKYPGRVAWNSYWDIVRYPSAEVRPSQLSKWNTFFQMVYLGSGVLLLLYEKEEGCEKTEEDFEDRKQDFQKAFSYLGYVTATTTIMSGVSYALKRNAFKLLK |
| 6653 | sp|P47941|CRKL\_MOUSE | MSSARFDSSDRSAWYMGPVTRQEAQTRLQGQRHGMFLVRDSSTCPGDYVLSVSENSRVSHYIINSLPNRRFKIGDQEFDHLPALLEFYKIHYLDTTTLIEPAPRYPSPPVGSVSAPNLPTAEENLEYVRTLYDFPGNDAEDLPFKKGELLVIIEKPEEQWWSARNKDGRVGMIPVPYVEKLVRSSPHGKHGNRNSNSYGIPEPAHAYAQPQTTTPLPTVASTPGAAINPLPSTQNGPVFAKAIQKRVPCAYDKTALALEVGDIVKVTRMNINGQWEGEVNGRKGLFPFTHVKIFDPQNPDDNE |
| 6654 | sp|P43254|COP1\_ARATH | MEEISTDPVVPAVKPDPRTSSVGEGANRHENDDGGSGGSEIGAPDLDKDLLCPICMQIIKDAFLTACGHSFCYMCIITHLRNKSDCPCCSQHLTNNQLYPNFLLDKLLKKTSARHVSKTASPLDQFREALQRGCDVSIKEVDNLLTLLAERKRKMEQEEAERNMQILLDFLHCLRKQKVDELNEVQTDLQYIKEDINAVERHRIDLYRARDRYSVKLRMLGDDPSTRNAWPHEKNQIGFNSNSLSIRGGNFVGNYQNKKVEGKAQGSSHGLPKKDALSGSDSQSLNQSTVSMARKKRIHAQFNDLQECYLQKRRQLADQPNSKQENDKSVVRREGYSNGLADFQSVLTTFTRYSRLRVIAEIRHGDIFHSANIVSSIEFDRDDELFATAGVSRCIKVFDFSSVVNEPADMQCPIVEMSTRSKLSCLSWNKHEKNHIASSDYEGIVTVWDVTTRQSLMEYEEHEKRAWSVDFSRTEPSMLVSGSDDCKVKVWCTRQEASVINIDMKANICCVKYNPGSSNYIAVGSADHHIHYYDLRNISQPLHVFSGHKKAVSYVKFLSNNELASASTDSTLRLWDVKDNLPVRTFRGHTNEKNFVGLTVNSEYLACGSETNEVYVYHKEITRPVTSHRFGSPDMDDAEEEAGSYFISAVCWKSDSPTMLTANSQGTIKVLVLAA |
| 6655 | sp|O35084|CP27B\_MOUSE | MTQAVKLASRVFHRIHLPLQLDASLGSRGSESVLRSLSDIPGPSTLSFLAELFCKGGLSRLHELQVHGAARYGPIWSGSFGTLRTVYVADPTLVEQLLRQESHCPERCSFSSWAEHRRRHQRACGLLTADGEEWQRLRSLLAPLLLRPQAAAGYAGTLDNVVRDLVRRLRRQRGRGSGLPGLVLDVAGEFYKFGLESIGAVLLGSRLGCLEAEVPPDTETFIHAVGSVFVSTLLTMAMPNWLHHLIPGPWARLCRDWDQMFAFAQRHVELREGEAAMRNQGKPEEDMPSGHHLTHFLFREKVSVQSIVGNVTELLLAGVDTVSNTLSWTLYELSRHPDVQTALHSEITAGTRGSCAHPHGTALSQLPLLKAVIKEVLRLYPVVPGNSRVPDRDIRVGNYVIPQDTLVSLCHYATSRDPTQFPDPNSFNPARWLGEGPTPHPFASLPFGFGKRSCIGRRLAELELQMALSQILTHFEVLPEPGALPIKPMTRTVLVPERSINLQFVDR |
| 6656 | sp|Q5ZPR3|CD276\_HUMAN | MLRRRGSPGMGVHVGAALGALWFCLTGALEVQVPEDPVVALVGTDATLCCSFSPEPGFSLAQLNLIWQLTDTKQLVHSFAEGQDQGSAYANRTALFPDLLAQGNASLRLQRVRVADEGSFTCFVSIRDFGSAAVSLQVAAPYSKPSMTLEPNKDLRPGDTVTITCSSYQGYPEAEVFWQDGQGVPLTGNVTTSQMANEQGLFDVHSILRVVLGANGTYSCLVRNPVLQQDAHSSVTITPQRSPTGAVEVQVPEDPVVALVGTDATLRCSFSPEPGFSLAQLNLIWQLTDTKQLVHSFTEGRDQGSAYANRTALFPDLLAQGNASLRLQRVRVADEGSFTCFVSIRDFGSAAVSLQVAAPYSKPSMTLEPNKDLRPGDTVTITCSSYRGYPEAEVFWQDGQGVPLTGNVTTSQMANEQGLFDVHSVLRVVLGANGTYSCLVRNPVLQQDAHGSVTITGQPMTFPPEALWVTVGLSVCLIALLVALAFVCWRKIKQSCEEENAGAEDQDGEGEGSKTALQPLKHSDSKEDDGQEIA |
| 6657 | sp|P13584|CP4B1\_HUMAN | MVPSFLSLSFSSLGLWASGLILVLGFLKLIHLLLRRQTLAKAMDKFPGPPTHWLFGHALEIQETGSLDKVVSWAHQFPYAHPLWFGQFIGFLNIYEPDYAKAVYSRGDPKAPDVYDFFLQWIGRGLLVLEGPKWLQHRKLLTPGFHYDVLKPYVAVFTESTRIMLDKWEEKAREGKSFDIFCDVGHMALNTLMKCTFGRGDTGLGHRDSSYYLAVSDLTLLMQQRLVSFQYHNDFIYWLTPHGRRFLRACQVAHDHTDQVIRERKAALQDEKVRKKIQNRRHLDFLDILLGARDEDDIKLSDADLRAEVDTFMFEGHDTTTSGISWFLYCMALYPEHQHRCREEVREILGDQDFFQWDDLGKMTYLTMCIKESFRLYPPVPQVYRQLSKPVTFVDGRSLPAGSLISMHIYALHRNSAVWPDPEVFDSLRFSTENASKRHPFAFMPFSAGPRNCIGQQFAMSEMKVVTAMCLLRFEFSLDPSRLPIKMPQLVLRSKNGFHLHLKPLGPGSGK |
| 6658 | sp|Q6ZWL3|CP4V2\_HUMAN | MAGLWLGLVWQKLLLWGAASALSLAGASLVLSLLQRVASYARKWQQMRPIPTVARAYPLVGHALLMKPDGREFFQQIIEYTEEYRHMPLLKLWVGPVPMVALYNAENVEVILTSSKQIDKSSMYKFLEPWLGLGLLTSTGNKWRSRRKMLTPTFHFTILEDFLDIMNEQANILVKKLEKHINQEAFNCFFYITLCALDIICETAMGKNIGAQSNDDSEYVRAVYRMSEMIFRRIKMPWLWLDLWYLMFKEGWEHKKSLQILHTFTNSVIAERANEMNANEDCRGDGRGSAPSKNKRRAFLDLLLSVTDDEGNRLSHEDIREEVDTFMFEGHDTTAAAINWSLYLLGSNPEVQKKVDHELDDVFGKSDRPATVEDLKKLRYLECVIKETLRLFPSVPLFARSVSEDCEVAGYRVLKGTEAVIIPYALHRDPRYFPNPEEFQPERFFPENAQGRHPYAYVPFSAGPRNCIGQKFAVMEEKTILSCILRHFWIESNQKREELGLEGQLILRPSNGIWIKLKRRNADER |
| 6659 | sp|Q14019|COTL1\_HUMAN | MATKIDKEACRAAYNLVRDDGSAVIWVTFKYDGSTIVPGEQGAEYQHFIQQCTDDVRLFAFVRFTTGDAMSKRSKFALITWIGENVSGLQRAKTGTDKTLVKEVVQNFAKEFVISDRKELEEDFIKSELKKAGGANYDAQTE |
| 6660 | sp|A1Z7Z9|CP131\_DROME | MDLCLKGSQINLATRQKTKPKYTSRSLTTLHNPCPHFRPRSANFLQQRSRSSPFLGRPQSADPKFGRRLSNYFVEKELRNGGKRQVSSNDLLKSLLEEPIKRSWLCRSTCNSSESDYSLHKRTPDSSEEGEQFLVNMPVGEKVKSYSSYSGNQGLSNGALLQRTAKPDLPGRVSFSKPNMHADLDSSDCDNDKQEVRPSISAPGPLTLPSFLSKVEQADPVGQKKSVHFGSTAAEGEVLAETYEYPKCPSENCTCSTRSSSTTSTNEASASDVKCACDAPSCRFMESSKQVEPTSPTPTLPKAPSSELDVIREYKQAVEGVQVVKNHLGTDTLNNIEILPNYLDKYASPTKEKQNNLSETKNMATNSSAVNNGSVVYRPVGNPRNFGAENNFLPAVQDDRRSFANGSSDGVINNYLKVASTPPFVGKKKENVKPASADPIARSSKSKVTKSTINPAPLGKMKKAISVGSLREERKLSEYNLDKVDSWMSMQDQKQYDGKHKPGLEDLDEAQDNDTASQLSLKSNEDSRDSTYDEIVSVIKEIEEDKKRDNFSEGIPSELNLNLDSRCETADTVTVSEGKVPESGDKYKDILAYLNNVESSCDKTLMETRRSIPDSNRSEVEFVVEPDVTDEVPKLSELLMLPNHQLARRVIALSLRANELANAIHMSKEHVFQLRGEKQKSLRAEKSTAAAKLRDQKKHYEEVVTRHQGFIEQLLKDKGSLCEKVAALTRRLESQNQAWEHRLETELARTKETTMAGEKIRRERWVRENTKKIKELTVKGLEAEINKMNCDHQREVTELKRTHQMQLLDALEEARTKHEQIETSIRESCAQDREAIIEKERTAIRERFERQLEEEQRTQAEQRQKLTEEFAAERDRLQSELRQRENEHQARRQEALREQEQELEQAKFEMQERMAKQEEKYQNRVNTIEQQYQADFELWKTEHENKTKLAQAEKENAIRQHYRAERDRQLDELVVRMEADALQHKEEHELKMNRLKEKYEKDLVLAESVEKSLREKYAETRGKLAEADAQVRNSQAEVKQLQLELSHSKKMCGDIIMERDRLRDNLNADIQSELGVLNERHKQEMDQLQKRVHQTIQRQEETIEILKGDNDALRQQCLKLNAVIRQQRKDYCVK |
| 6661 | sp|P00186|CP1A2\_MOUSE | MAFSQYISLAPELLLATAIFCLVFWMVRASRTQVPKGLKNPPGPWGLPFIGHMLTVGKNPHLSLTRLSQQYGDVLQIRIGSTPVVVLSGLNTIKQALVRQGDDFKGRPDLYSFTLITNGKSMTFNPDSGPVWAARRRLAQDALKSFSIASDPTSASSCYLEEHVSKEANHLVSKLQKAMAEVGHFEPVSQVVESVANVIGAMCFGKNFPRKSEEMLNIVNNSKDFVENVTSGNAVDFFPVLRYLPNPALKRFKTFNDNFVLFLQKTVQEHYQDFNKNSIQDITSALFKHSENYKDNGGLIPEEKIVNIVNDIFGAGFDTVTTAITWSILLLVTWPNVQRKIHEELDTVVGRDRQPRLSDRPQLPYLEAFILEIYRYTSFVPFTIPHSTTRDTSLNGFHIPKERCIYINQWQVNHDEKQWKDPFVFRPERFLTNNNSAIDKTQSEKVMLFGLGKRRCIGEIPAKWEVFLFLAILLQHLEFSVPPGVKVDLTPNYGLTMKPGTCEHVQAWPRFSK |
| 6662 | sp|Q8K4J2|COE4\_MOUSE | MFPAQDALPRGGLHLKEEPLLPSSLGSVRSWMQSAGILDSNTAAQSGVGLARAHFEKQPPSNLRKSNFFHFVLAMYDRQGQPVEVERTAFIDFVEKDREPGTEKTNNGIHYRLRLVYNNGLRTEQDLYVRLIDSMSKQAIIYEGQDKNPEMCRVLLTHEIMCSRCCDRKSCGNRNETPSDPVIIDRFFLKFFLKCNQNCLKNAGNPRDMRRFQVVVSTTVSVDGHVLAVSDNMFVHNNSKHGRRARRLDPSEAATPCIKAISPGEGWTTGGATVIIIGDNFFDGLQVVFGNVLLWSELITPHAIRVQTPPRHIPGVVEVTLSYKSKQFCKGAPGRFVYTALNEPTIDYGFQRLQKVIPRHPGDPERLPKEVLLKRAADLAEALYGVPSSNQELLLKRAADVAEALYSAPRAPAPLGPLAPSHPHPAVVGINAFSSPLAIAVGDTTPEPGYARSCGSASPRFAPSPGSQQSSYGSGLGAGLGSYGAPGVTGLGVPGSPSFLNGSTATSPFAIMPSSPPLAAASSMSLPAAAPTTSVFSFSPVNMICAVKQRSAFAPVLRPPSSPSQACPRAHREGLPDQPFEDTDKFHSAARGLQGLAYS |
| 6663 | sp|Q9UQ03|COR2B\_HUMAN | MTVTKMSWRPQYRSSKFRNVYGKVANREHCFDGIPITKNVHDNHFCAVNTRFLAIVTESAGGGSFLVIPLEQTGRIEPNYPKVCGHQGNVLDIKWNPFIDNIIASCSEDTSVRIWEIPEGGLKRNMTEALLELHGHSRRVGLVEWHPTTNNILFSAGYDYKVLIWNLDVGEPVKMIDCHTDVILCMSFNTDGSLLTTTCKDKKLRVIEPRSGRVLQEANCKNHRVNRVVFLGNMKRLLTTGVSRWNTRQIALWDQEDLSMPLIEEEIDGLSGLLFPFYDADTHMLYLAGKGDGNIRYYEISTEKPYLSYLMEFRSPAPQKGLGVMPKHGLDVSACEVFRFYKLVTLKGLIEPISMIVPRRSDSYQEDIYPMTPGTEPALTPDEWLGGINRDPVLMSLKEGYKKSSKMVFKAPIKEKKSVVVNGIDLLENVPPRTENELLRMFFRQQDEIRRLKEELAQKDIRIRQLQLELKNLRNSPKNC |
| 6664 | sp|Q64654|CP51A\_RAT | MVLLGLLQSGGSVLGQAMEQVTGGNLLSTLLIACAFTLSLVYLFRLAVGHMVQLPAGAKSPPYIYSPIPFLGHAIAFGKSPIEFLENAYEKYGPVFSFTMVGKTFTYLLGSDAAALLFNSKNEDLNAEEVYGRLTTPVFGKGVAYDVPNAVFLEQKKILKSGLNIAHFKQYVSIIEKEAKEYFKSWGESGERNVFEALSELIILTASHCLHGKEIRSQLNEKVAQLYADLDGGFSHAAWLLPGWLPLPSFRRRDRAHREIKNIFYKAIQKRRLSKEPAEDILQTLLDSTYKDGRPLTDDEIAGMLIGLLLAGQHTSSTTSAWMGFFLARDKPLQDKCYLEQKTVCGEDLPPLTYEQLKDLNLLDRCIKETLRLRPPIMTMMRMAKTPQTVAGYTIPPGHQVCVSPTVNQRLKDSWVERLDFNPDRYLQDNPASGEKFAYVPFGAGRHRCIGENFAYVQIKTIWSTMLRLYEFDLINGYFPSVNYTTMIHTPENPVIRYKRRSK |
| 6665 | sp|Q9H4W6|COE3\_HUMAN | MFGIQENIPRGGTTMKEEPLGSGMNPVRSWMHTAGVVDANTAAQSGVGLARAHFEKQPPSNLRKSNFFHFVLALYDRQGQPVEIERTAFVDFVEKEKEPNNEKTNNGIHYKLQLLYSNGVRTEQDLYVRLIDSMTKQAIVYEGQDKNPEMCRVLLTHEIMCSRCCDKKSCGNRNETPSDPVIIDRFFLKFFLKCNQNCLKNAGNPRDMRRFQVVVSTTVNVDGHVLAVSDNMFVHNNSKHGRRARRLDPSEGTAPSYLENATPCIKAISPSEGWTTGGATVIIIGDNFFDGLQVVFGTMLVWSELITPHAIRVQTPPRHIPGVVEVTLSYKSKQFCKGAPGRFVYTALNEPTIDYGFQRLQKVIPRHPGDPERLPKEVLLKRAADLVEALYGMPHNNQEIILKRAADIAEALYSVPRNHNQIPTLGNNPAHTGMMGVNSFSSQLAVNVSETSQANDQVGYSRNTSSVSPRGYVPSSTPQQSNYNTVSTSMNGYGSGAMASLGVPGSPGFLNGSSANSPYGIVPSSPTMAASSVTLPSNCSSTHGIFSFSPANVISAVKQKSAFAPVVRPQASPPPSCTSANGNGLQAMSGLVVPPM |
| 6666 | sp|P10613|CP51\_CANAL | MAIVETVIDGINYFLSLSVTQQISILLGVPFVYNLVWQYLYSLRKDRAPLVFYWIPWFGSAASYGQQPYEFFESCRQKYGDVFSFMLLGKIMTVYLGPKGHEFVFNAKLSDVSAEDAYKHLTTPVFGKGVIYDCPNSRLMEQKKFAKFALTTDSFKRYVPKIREEILNYFVTDESFKLKEKTHGVANVMKTQPEITIFTASRSLFGDEMRRIFDRSFAQLYSDLDKGFTPINFVFPNLPLPHYWRRDAAQKKISATYMKEIKSRRERGDIDPNRDLIDSLLIHSTYKDGVKMTDQEIANLLIGILMGGQHTSASTSAWFLLHLGEKPHLQDVIYQEVVELLKEKGGDLNDLTYEDLQKLPSVNNTIKETLRMHMPLHSIFRKVTNPLRIPETNYIVPKGHYVLVSPGYAHTSERYFDNPEDFDPTRWDTAAAKANSVSFNSSDEVDYGFGKVSKGVSSPYLPFGGGRHRCIGEQFAYVQLGTILTTFVYNLRWTIDGYKVPDPDYSSMVVLPTEPAEIIWEKRETCMF |
| 6667 | sp|P41046|CORTO\_DROME | MTMAACYANYDMSSLSHGMSALSALQQQQQQQQQQHSQTQQQHHHQQQQQHMYHAAVAAHQQQLLQQQQQQQHHRHHHQPANTSSSSNSRHSHAAATQTQVAAAVANSRQQQQQQQQQQQQQQQQQTASSNSNAAPAPSPQKDYSIPLHVDCSVEYELPNQPKPPAGQRVEPLLMIHPCYFRKMESQRRSPFVNNMHATARAVSSSSLSSGAALGGGGSGAAVATAPSSSAARRGARAATSAQQQQQQQQRYQQQQQQLRQQHQQMSQMSQQAHYPQQQSSLVRQHQQQQQQQQQQQRASSNQSQRQSQSQSQSQSHAANSAAAAAAQASIAAAAAGQWDQLAALAARTALTPHHMLHPHSHYAAKGSGGGAGGGKRDAMISGSYGQTAVASGKLQQSQVQQQQPQQQQQHCLPPPPWDATSMLMDRSPMATVPSNYQAGPDTNPMRLYSATPTAGAASGGSASVGGGGAVSGAGATGAVNTATDKLSGKYRQYLRSQRMHPYAAAASLNLAAAAAAAGQTSFVPFSSAATAVAATPTFQHLPQISCYNV |
| 6668 | sp|P98078|DAB2\_MOUSE | MSNEVETSTTNGQPDQQAAPKAPSKKEKKKGSEKTDEYLLARFKGDGVKYKAKLIGIDDVPDARGDKMSQDSMMKLKGMAAAGRSQGQHKQRIWVNISLSGIKIIDEKTGVIEHEHPVNKISFIARDVTDNRAFGYVCGGEGQHQFFAIKTGQQAEPLVVDLKDLFQVIYNVKKKEEDKKKVEEANKAEENGSEALMTLDDQANKLKLGVDQMDLFGDMSTPPDLNSPTESKDILLVDLNSEIDTNQNSLRENPFLTNGVTSCSLPRPKPQASFLPENAFSANLNFFPTPNPDPFRDDPFAQPDQSAPSSFDSLTSPDQKKASLSSSSTPQSKGPLNGDTDYFGQQFDQLSNRTGKPEAQGGPWPYPSSQTQQAVRTQNGVSEREQNGFHIKSSPNPFVGSPPKGLSVPNGVKQDLESSVQSSAHDSIAIIPPPQSTKPGRGRRTAKSSANDLLASDIFASEPPGQMSPTGQPAVPQSNFLDLFKGNAPAPVGPLVGLGTVPVTPPQAGPWTPVVYSPSTTVVPGAIISGQPPSFRQPLVFGTTPAVQVWNQSPSFATPASPPPPTVWCPTTSVAPNAWSSTSPLGNPFQSNNIFPPPTMSTQSSPQPMMSSVLATPPQPPPRNGPLKDIPSDAFTGLDPLGDKEVKEVKEMFKDFQLRQPPLVPSRKGETPPSGTSSAFSSYFNNKVGIPQEHVDHDDFDANQLLNKINEPPKPAPRQGVLLGTKSADNSLENPFSKGFSSSNPSVVSQPASSDPHRSPFGNPFA |
| 6669 | sp|P36649|CUEO\_ECOLI | MQRRDFLKYSVALGVASALPLWSRAVFAAERPTLPIPDLLTTDARNRIQLTIGAGQSTFGGKTATTWGYNGNLLGPAVKLQRGKAVTVDIYNQLTEETTLHWHGLEVPGEVDGGPQGIIPPGGKRSVTLNVDQPAATCWFHPHQHGKTGRQVAMGLAGLVVIEDDEILKLMLPKQWGIDDVPVIVQDKKFSADGQIDYQLDVMTAAVGWFGDTLLTNGAIYPQHAAPRGWLRLRLLNGCNARSLNFATSDNRPLYVIASDGGLLPEPVKVSELPVLMGERFEVLVEVNDNKPFDLVTLPVSQMGMAIAPFDKPHPVMRIQPIAISASGALPDTLSSLPALPSLEGLTVRKLQLSMDPMLDMMGMQMLMEKYGDQAMAGMDHSQMMGHMGHGNMNHMNHGGKFDFHHANKINGQAFDMNKPMFAAAKGQYERWVISGVGDMMLHPFHIHGTQFRILSENGKPPAAHRAGWKDTVKVEGNVSEVLVKFNHDAPKEHAYMAHCHLLEHEDTGMMLGFTV |
| 6670 | sp|Q8IWT3|CUL9\_HUMAN | MVGERHAGDLMVPLGPRLQAYPEELIRQRPGHDGHPEYLIRWSVLKCGEVGKVGVEEGKAEHILMWLSAPEVYANCPGLLGERALSKGLQHEPAGVSGSFPRDPGGLDEVAMGEMEADVQALVRRAARQLAESGTPSLTAAVLHTIHVLSAYASIGPLTGVFRETGALDLLMHMLCNPEPQIRRSAGKMLQALAAHDAGSRAHVLLSLSQQDGIEQHMDFDSRYTLLELFAETTSSEEHCMAFEGIHLPQIPGKLLFSLVKRYLCVTSLLDQLNSSPELGAGDQSSPCATREKSRGQRELEFSMAVGNLISELVRSMGWARNLSEQGMSPPRPTRSIFQPYISGPSLLLPTIVTTPRRQGWVFRQRSEFSSRSGYGEYVQQTLQPGMRVRMLDDYEEISAGDEGEFRQSNNGIPPVQVFWQSTGRTYWVHWHMLEILGPEEATEDKASAAVEKGAGATVLGTAFPSWDWNPMDGLYPLPYLQPEPQKNERVGYLTQAEWWELLFFIKKLDLCEQQPIFQNLWKNLDETLGEKALGEISVSVEMAESLLQVLSSRFEGSTLNDLLNSQIYTKYGLLSNEPSSSSTSRNHSCTPDPEEESKSEASFSEEETESLKAKAEAPKTEAEPTKTRTETPMAQSDSQLFNQLLVTEGMTLPTEMKEAASEMARALRGPGPRSSLDQHVAAVVATVQISSLDTNLQLSGLSALSQAVEEVTERDHPLVRPDRSLREKLVKMLVELLTNQVGEKMVVVQALRLLYLLMTKHEWRPLFAREGGIYAVLVCMQEYKTSVLVQQAGLAALKMLAVASSSEIPTFVTGRDSIHSLFDAQMTREIFASIDSATRPGSESLLLTVPAAVILMLNTEGCSSAARNGLLLLNLLLCNHHTLGDQIITQELRDTLFRHSGIAPRTEPMPTTRTILMMLLNRYSEPPGSPERAALETPIIQGQDGSPELLIRSLVGGPSAELLLDLERVLCREGSPGGAVRPLLKRLQQETQPFLLLLRTLDAPGPNKTLLLSVLRVITRLLDFPEAMVLPWHEVLEPCLNCLSGPSSDSEIVQELTCFLHRLASMHKDYAVVLCCLGAKEILSKVLDKHSAQLLLGCELRDLVTECEKYAQLYSNLTSSILAGCIQMVLGQIEDHRRTHQPINIPFFDVFLRHLCQGSSVEVKEDKCWEKVEVSSNPHRASKLTDHNPKTYWESNGSTGSHYITLHMHRGVLVRQLTLLVASEDSSYMPARVVVFGGDSTSCIGTELNTVNVMPSASRVILLENLNRFWPIIQIRIKRCQQGGIDTRVRGVEVLGPKPTFWPLFREQLCRRTCLFYTIRAQAWSRDIAEDHRRLLQLCPRLNRVLRHEQNFADRFLPDDEAAQALGKTCWEALVSPLVQNITSPDAEGVSALGWLLDQYLEQRETSRNPLSRAASFASRVRRLCHLLVHVEPPPGPSPEPSTRPFSKNSKGRDRSPAPSPVLPSSSLRNITQCWLSVVQEQVSRFLAAAWRAPDFVPRYCKLYEHLQRAGSELFGPRAAFMLALRSGFSGALLQQSFLTAAHMSEQFARYIDQQIQGGLIGGAPGVEMLGQLQRHLEPIMVLSGLELATTFEHFYQHYMADRLLSFGSSWLEGAVLEQIGLCFPNRLPQLMLQSLSTSEELQRQFHLFQLQRLDKLFLEQEDEEEKRLEEEEEEEEEEEAEKELFIEDPSPAISILVLSPRCWPVSPLCYLYHPRKCLPTEFCDALDRFSSFYSQSQNHPVLDMGPHRRLQWTWLGRAELQFGKQILHVSTVQMWLLLKFNQTEEVSVETLLKDSDLSPELLLQALVPLTSGNGPLTLHEGQDFPHGGVLRLHEPGPQRSGEALWLIPPQAYLNVEKDEGRTLEQKRNLLSCLLVRILKAHGEKGLHIDQLVCLVLEAWQKGPNPPGTLGHTVAGGVACTSTDVLSCILHLLGQGYVKRRDDRPQILMYAAPEPMGPCRGQADVPFCGSQSETSKPSPEAVATLASLQLPAGRTMSPQEVEGLMKQTVRQVQETLNLEPDVAQHLLAHSHWGAEQLLQSYSEDPEPLLLAAGLCVHQAQAVPVRPDHCPVCVSPLGCDDDLPSLCCMHYCCKSCWNEYLTTRIEQNLVLNCTCPIADCPAQPTGAFIRAIVSSPEVISKYEKALLRGYVESCSNLTWCTNPQGCDRILCRQGLGCGTTCSKCGWASCFNCSFPEAHYPASCGHMSQWVDDGGYYDGMSVEAQSKHLAKLISKRCPSCQAPIEKNEGCLHMTCAKCNHGFCWRCLKSWKPNHKDYYNCSAMVSKAARQEKRFQDYNERCTFHHQAREFAVNLRNRVSAIHEVPPPRSFTFLNDACQGLEQARKVLAYACVYSFYSQDAEYMDVVEQQTENLELHTNALQILLEETLLRCRDLASSLRLLRADCLSTGMELLRRIQERLLAILQHSAQDFRVGLQSPSVEAWEAKGPNMPGSQPQASSGPEAEEEEEDDEDDVPEWQQDEFDEELDNDSFSYDESENLDQETFFFGDEEEDEDEAYD |
| 6671 | sp|P55917|CXA8\_SHEEP | MGDWSFLGNILEEVNEHSTVIGRVWLTVLFIFRILILGTAAEFVWGDEQSDFVCNTQQPGCENVCYDEAFPISHIRLWVLQIIFVSTPSLVYVGHAVHHVRMEEKRKEREAEELSQQSPGNGGERAPLAADQGSVKKSSSSSKGTKKFRLEGTLLRTYVCHIIFKTLFEVGFIVGHYFLYGFRILPLYRCSRWPCPNVVDCFVSRPTEKTIFILFMLSVASVSLFLNILEMSHLGLKKIRSAFKRPVEQPLGEIPEKSLHSIAVSSIQKAKGYQLLEEEKIVSHYFPLTEVGMVEASPLSAKPFSQFEEKVGPGPLGDLSRAYQETLPSYAQVGAQEGVEEEQPIEAAAEPEVGDKSQEAERVSTEGEETLAVLEEEKVEPPEVEKEAEKEETPPEKVSKQELTPEKAPSLCAELPGEDTRPLSRLSKASSRARSDDLTV |
| 6672 | sp|P36382|CXA5\_HUMAN | MGDWSFLGNFLEEVHKHSTVVGKVWLTVLFIFRMLVLGTAAESSWGDEQADFRCDTIQPGCQNVCYDQAFPISHIRYWVLQIIFVSTPSLVYMGHAMHTVRMQEKRKLREAERAKEVRGSGSYEYPVAEKAELSCWEEGNGRIALQGTLLNTYVCSILIRTTMEVGFIVGQYFIYGIFLTTLHVCRRSPCPHPVNCYVSRPTEKNVFIVFMLAVAALSLLLSLAELYHLGWKKIRQRFVKPRQHMAKCQLSGPSVGIVQSCTPPPDFNQCLENGPGGKFFNPFSNNMASQQNTDNLVTEQVRGQEQTPGEGFIQVRYGQKPEVPNGVSPGHRLPHGYHSDKRRLSKASSKARSDDLSV |
| 6673 | sp|P08050|CXA1\_RAT | MGDWSALGKLLDKVQAYSTAGGKVWLSVLFIFRILLLGTAVESAWGDEQSAFRCNTQQPGCENVCYDKSFPISHVRFWVLQIIFVSVPTLLYLAHVFYVMRKEEKLNKKEEELKVAQTDGVNVEMHLKQIEIKKFKYGIEEHGKVKMRGGLLRTYIISILFKSVFEVAFLLIQWYIYGFSLSAVYTCKRDPCPHQVDCFLSRPTEKTIFIIFMLVVSLVSLALNIIELFYVFFKGVKDRVKGRSDPYHATTGPLSPSKDCGSPKYAYFNGCSSPTAPLSPMSPPGYKLVTGDRNNSSCRNYNKQASEQNWANYSAEQNRMGQAGSTISNSHAQPFDFPDDNQNAKKVAAGHELQPLAIVDQRPSSRASSRASSRPRPDDLEI |
| 6674 | sp|Q8WMV3|CXAR\_BOVIN | MELLLRFLLLCGVADFTRGLSITTPEQMIEKAKGETAYLPCKFTLGPEDQGPLDIEWLLSPADNQKVDQVIILYSGDKIYDDYYQDLKGRVHFTSNDLKSGDASINVTNLQLSDIGTYQCKVKKAPGVGNKKIQLTVLVKPSGIRCYVDGSEEIGNDFKLKCEPKEGSLPLRYEWQKLSDSQKLPTSWLPEMTSPVISVKNASAEYSGTYTCTVRNRVGSDQCLLRLDVVPPSNRAGTIAGAVIGTLLALVLIALIVFCCHKKRREEKYEKEVHHDIREDVPPPKSRTSTARSYIGSNHSSLGSMSPSNMEGYSKTQYNQVPSEDLERAPQSPTLPPAKVAAPNLSRMGAVPVMIPAQSKDGSIV |
| 6675 | sp|Q02738|CXB4\_MOUSE | MNWGFLQGILSGVNKYSTALGRIWLSVVFIFRVLVYVVAAEEVWDDDQKDFICNTKQPGCPNVCYDEFFPVSHVRLWALQLILVTCPSLLVVMHVAYREERERKHRLKHGPNAPALYSNLSKKRGGLWWTYLLSLIFKAAVDSGFLYIFHCIYKDYDMPRVVACSVTPCPHTVDCYIARPTEKKVFTYFMVVTAAICILLNLSEVVYLVGKRCMEVFRPRRRKASRRHQLPDTCPPYVISKGGHPQDESVILTKAGMATVDAGVYP |
| 6676 | sp|Q13618|CUL3\_HUMAN | MSNLSKGTGSRKDTKMRIRAFPMTMDEKYVNSIWDLLKNAIQEIQRKNNSGLSFEELYRNAYTMVLHKHGEKLYTGLREVVTEHLINKVREDVLNSLNNNFLQTLNQAWNDHQTAMVMIRDILMYMDRVYVQQNNVENVYNLGLIIFRDQVVRYGCIRDHLRQTLLDMIARERKGEVVDRGAIRNACQMLMILGLEGRSVYEEDFEAPFLEMSAEFFQMESQKFLAENSASVYIKKVEARINEEIERVMHCLDKSTEEPIVKVVERELISKHMKTIVEMENSGLVHMLKNGKTEDLGCMYKLFSRVPNGLKTMCECMSSYLREQGKALVSEEGEGKNPVDYIQGLLDLKSRFDRFLLESFNNDRLFKQTIAGDFEYFLNLNSRSPEYLSLFIDDKLKKGVKGLTEQEVETILDKAMVLFRFMQEKDVFERYYKQHLARRLLTNKSVSDDSEKNMISKLKTECGCQFTSKLEGMFRDMSISNTTMDEFRQHLQATGVSLGGVDLTVRVLTTGYWPTQSATPKCNIPPAPRHAFEIFRRFYLAKHSGRQLTLQHHMGSADLNATFYGPVKKEDGSEVGVGGAQVTGSNTRKHILQVSTFQMTILMLFNNREKYTFEEIQQETDIPERELVRALQSLACGKPTQRVLTKEPKSKEIENGHIFTVNDQFTSKLHRVKIQTVAAKQGESDPERKETRQKVDDDRKHEIEAAIVRIMKSRKKMQHNVLVAEVTQQLKARFLPSPVVIKKRIEGLIEREYLARTPEDRKVYTYVA |
| 6677 | sp|Q57872|DCDB\_METJA | MILSDKDIIDYVTSKRIIIKPFNKDFVGPCSYDVTLGDEFIIYDDEVYDLSKELNYKRIKIKNSILVCPLNYNLTEEKINYFKEKYNVDYVVEGGVLGTTNEYIELPNDISAQYQGRSSLGRVFLTSHQTAGWIDAGFKGKITLEIVAFDKPVILYKNQRIGQLIFSKLLSPADVGYSERKTSKYAYQKSVMPSLIHLDNHKKD |
| 6678 | sp|Q5S3I3|DDMC\_STEMA | MTFVRNAWYVAALPEELSEKPLGRTILDTPLALYRQPDGVVAALLDICPHRFAPLSDGILVNGHLQCPYHGLEFDGGGQCVHNPHGNGARPASLNVRSFPVVERDALIWIWPGDPALADPGAIPDFGCRVDPAYRTVGGYGHVDCNYKLLVDNLMDLGHAQYVHRANAQTDAFDRLEREVIVGDGEIQALMKIPGGTPSVLMAKFLRGANTPVDAWNDIRWNKVSAMLNFIAVAPEGTPKEQSIHSRGTHILTPETEASCHYFFGSSRNFGIDDPEMDGVLRSWQAQALVKEDKVVVEAIERRRAYVEANGIRPAMLSCDEAAVRVSREIEKLEQLEAA |
| 6679 | sp|P49621|DGKB\_RAT | MTNQEKWAHLSPSEFSQLQKYAEYSTKKLKDVLEEFHGNGVLAKYNPEGKQDILNQTIDFEGFKLFMKTFLEAELPDDFTAHLFMSFSNKFPHSSPNVKSKPALLSGGLRMNKGAITPPRSSPANTCFPEVIHLKDIVCYLSLLERGRPEDKLEFMFRLYDTDGNGFLDSSELENIIGQMMHVAEYLEWDVTELNPILHEMMEEIDYDRDGTVSLEEWIQGGMTTIPLLVLLGLENNVKDDGQHVWRLKHFNKPAYCNLCLNMLIGVGKQGLCCSFCKYTVHERCARAPPSCIKTYVKSKKNTDVMHHYWVEGNCPTKCDKCHKTVKCYQGLTGLHCVWCQTTLHNKCASHLKPECDCGPLKDHILPPTTICPVVLTMPTAGTSVPEERQSTAKKEKGSSQQPNKVTDKNKMQRANSVTMDGQGLQITPIPGTHPLLVFVNPKSGGKQGERIYRKFQYLLNPRQVYSLSGNGPMPGLHFFRDVPDFRVLACGGDGTVGWILDCIEKANVVKHPPVAILPLGTGNDLARCLRWGGGYEGENLMKILKDIESSTEIMLDRWKFEVTPNDKDEKGDPVPYSIINNYFSIGVDASIAHRFHIMREKHPEKFNSRMKNKFWYFEFGTSETFSATCKKLHESVEIECDGVQIDLINISLQGIAILNIPSMHGGSNLWGESKKKRSHRRIEKKGSDKRPTLTDAKELKFASQDLSDQLLEVVGLEGAMEMGQIYTGLKSAGRRLAQCSSVVIRTSKSLPMQIDGEPWMQTPCTIKITHKNQAPMLMGPPPKTGLFCSLIKRTRNRSKE |
| 6680 | sp|P50244|DCAMC\_TRYBB | MSSCKDSLSLMAMWGSIARFDPKHERSFEGPEKRLEVIMRVVDGTHVSGLLAHDDDVWQKVIDAICAHIVSREFNEYIRSYVLSESSLFVMKDRVILITCGTITLLNCVPLICEAVSTVCGEVEWVSFMHKNYSFPWEQKGPHLSMAEEFKTLRSHFPSGQPFIFGPIDSDHYFLYFHSDVVQPSCSDDAQLSMTMYGLDRNQTKHWYSDKMLPTGPETAVIREATGLSEVVDDSWILHDLQYEPCGYSINAIRGSEYQTIHITPEEHCSFASYETNTCALNYSKCICGVLRVFDPERFSVIVFIDPDSAVGKSYHSGGTIGVEPEYYPNYEAHHRTVNEYTPGHWVLKVNYVKRAVGTVGTSAASGAKE |
| 6681 | sp|Q9H773|DCTP1\_HUMAN | MSVAGGEIRGDTGGEDTAAPGRFSFSPEPTLEDIRRLHAEFAAERDWEQFHQPRNLLLALVGEVGELAELFQWKTDGEPGPQGWSPRERAALQEELSDVLIYLVALAARCRVDLPLAVLSKMDINRRRYPAHLARSSSRKYTELPHGAISEDQAVGPADIPCDSTGQTST |
| 6682 | sp|Q16760|DGKD\_HUMAN | MAAAAGAPPPGPPQPPPPPPPEESSDSEPEAEPGSPQKLIRKVSTSGQIRQKTIIKEGMLTKQNNSFQRSKRRYFKLRGRTLYYAKTAKSIIFDEVDLTDASVAESSTKNVNNSFTVITPCRKLILCADNRKEMEDWIAALKTVQNREHFEPTQYSMDHFSGMHNWYACSHARPTYCNVCREALSGVTSHGLSCEVCKFKAHKRCAVRATNNCKWTTLASIGKDIIEDADGIAMPHQWLEGNLPVSAKCTVCDKTCGSVLRLQDWRCLWCKAMVHTSCKESLLTKCPLGLCKVSVIPPTALNSIDSDGFWKASCPPSCTSPLLVFVNSKSGDNQGVKFLRRFKQLLNPAQVFDLMNGGPHLGLRLFQKFDTFRILVCGGDGSVGWVLSEIDSLNLHKQCQLGVLPLGTGNDLARVLGWGSACDDDTQLPQILEKLERASTKMLDRWSVMAYEAKLPRQASSSTVTEDFSEDSEVQQILFYEDSVAAHLSKILTSDQHSVVISSAKVLCETVKDFVARVGKAYEKTTESSEESEVMAKKCSVLKEKLDSLLKTLDDESQASSSLPNPPPTIAEEAEDGDGSGSICGSTGDRLVASACPARPQIFRPREQLMLRANSLKKAIRQIIEHTEKAVDEQNAQTQEQEGFVLGLSESEEKMDHRVCPPLSHSESFGVPKGRSQRKVSKSPCEKLISKGSLSLGSSASLPPQPGSRDGLPALNTKILYPNVRAGMSGSLPGGSVISRLLINADPFNSEPETLEYYTEKCVMNNYFGIGLDAKISLDFNNKRDEHPEKCRSRTKNMMWYGVLGTKELLHRTYKNLEQKVLLECDGRPIPLPSLQGIAVLNIPSYAGGTNFWGGTKEDDTFAAPSFDDKILEVVAVFGSMQMAVSRVIRLQHHRIAQCRTVKISILGDEGVPVQVDGEAWVQPPGYIRIVHKNRAQTLTRDRAFESTLKSWEDKQKCELPRPPSCSLHPEMLSEEEATQMDQFGQAAGVLIHSIREIAQSHRDMEQELAHAVNASSKSMDRVYGKPRTTEGLNCSFVLEMVNNFRALRSETELLLSGKMALQLDPPQKEQLGSALAEMDRQLRRLADTPWLCQSAEPGDEESVMLDLAKRSRSGKFRLVTKFKKEKNNKNKEAHSSLGAPVHLWGTEEVAAWLEHLSLCEYKDIFTRHDIRGSELLHLERRDLKDLGVTKVGHMKRILCGIKELSRSAPAVEA |
| 6683 | sp|P53267|DAM1\_YEAST | MSEDKAKLGTTRSATEYRLSIGSAPTSRRSSMGESSSLMKFADQEGLTSSVGEYNENTIQQLLLPKIRELSDSIITLDSNFTRLNFIHESLADLNESLGSLLYGIMSNSWCVEFSQAPHDIQDDLIAIKQLKSLEDEKNNLVMELSNMERGIKRKKDEQGENDLAKASQNKQFNQPLFPSSQVRKYRSYDNRDKRKPSKIGNNLQVENEEDYEDDTSSEASFVLNPTNIGMSKSSQGHVTKTTRLNNNTNSKLRRKSILHTIRNSIASGADLPIENDNVVNLGDLHPNNRISLGSGAARVVNGPVTKNRNSMFSGRAERKPTESRHSVAKKTEKKINTRPPFR |
| 6684 | sp|A7LFZ6|DCL4\_ORYSJ | MGDAAAAAPAAAAAGPSSTRGEPKDPRTIARKYQLDLCKRAVEENIIVYLGTGCGKTHIAVLLIYELGHLIRKPSREVCIFLAPTIPLVRQQAVVIASSTDFKVQCYYGNGKNSRDHQEWENDMREFEVLVMTPQILLQSLRHCFIKMNSIALLILDECHHAQPQKRHPYAQIMKEFYNSNSVEKFPRVFGMTASPIIGKGVMPSHSFTEKGGRSPCQPLIFFLPKGGSNKLNYTKCINSLEELLHAKVCSVDNEELESVVASPDMEVYFYGPVNHSNLTTICIKELDSLKLQSERMLRASLCDFKDSQKKLKSLWRLHENIIFCLQELGSFGALQAARTFLSFDGDKLDRREVDLNGSTSSFAHHYLNGATSILSRNKTDGSHAGSFDLEKLEEPFFSNKFSVLINVLSRYGLQENMKCIVFVKRITVARAISNILQNLKCLEFWKCEFLVGCHSGSKNMSRNKMDAIVQRFSSGEVNLLVATSVGEEGLDIQTCCLVVRFDLPETVASFIQSRGRARMTKSKYVVLLERENQSHEKLLNGYIAGESIMNEEIDSRTSNDMFDCLEENIYQVDNTGASISTACSVSLLHCYCDNLPRDMFFTPSPVFFYIDGIEGIICRLILPPNAAFRQADGQPCLSKDEAKRDACLKACVKLHKLGALTDFLLPGPGSRKNKVSVTNNSSNNKVEDDSLREELHEMLIPAVLKPSGLKLDSLSNLHFYYVKFIPIPEDRRYQMFGLFVINPLPVEAETLQVDLHLARGRIVKAGIKHLGKIAFEKEKMMLAHKFQEMCLKILLDRSEFTSPHVKLGNDVTLEINSTFYLLLPIKQKCYGDRFMIDWPAVERCLSSPIFKDPIDVSVHASYSSNESLRLLDGIFSKTDVVGSVVFSPHNNIFFFVDGILDEINAWSEHSGATYAEHFKERFRIELSHPEQPLLKAKQIFNLRNLLHNRLPETTESEGRELLEHFVELPPELCSLKVIGFSKDMGSSLSLLPSLMYRLENLLVAIELKDVMLSSFPEASQISASGILEALTTEKCLERISLERFEVLGDAFLKYVVGRHKFITYEGLDEGQLTRRRSDVVNNSHLYELSIRKKLQVYIRDQQFEPTQFFAPGRPCKVVCNTDVEVRLHQMDIHPDNRENCNLRCTRSHHWLHRKVIADVVESLIGAFLVEGGFKAAFAFLHWIGIDVDFNNPALYRVLDSSSINLSLMDYTDIAGLEELIGYKFKHKGLLLQAFVHPSFSQHSGGCYQRLEFLGDAVLEYVITSYLYSTYPDIKPGQITDLRSLAVGNDSLAYAAVEKSIHKHLIKDSNHLTSAISKFEMYVKLSNSEKDLLEEPACPKALGDIVESCIGAVLLDSGFNLNYVWKVMLMLLKPVLTFANMHTNPMRELRELCQCHGFELGLPKPMKADGEYHVKVEVNIKSKIIICTAANRNSKAARKFAAQETLSKLKNYGYKHRNKSLEEILIVARKRESELIGYNEDPIDVEADISVKMKSPHIHEENIPFQNTETSFTRSSKFHNQIIAGSGKHDVNNGRNNQPKLATQSGRLPSEATEKSNKKVYHGDMVHKTARSFLFELCAANYWKPPEFKLCKEEGPSHLRKFTYKVVVEIKGASATLLECHSDGKLQKKAAQEHAAQGALWCLKQLGHLPKEEDVRV |
| 6685 | sp|Q9Y315|DEOC\_HUMAN | MSAHNRGTELDLSWISKIQVNHPAVLRRAEQIQARRTVKKEWQAAWLLKAVTFIDLTTLSGDDTSSNIQRLCYKAKYPIREDLLKALNMHDKGITTAAVCVYPARVCDAVKALKAAGCNIPVASVAAGFPAGQTHLKTRLEEIRLAVEDGATEIDVVINRSLVLTGQWEALYDEIRQFRKACGEAHLKTILATGELGTLTNVYKASMIAMMAGSDFIKTSTGKETVNATFPVAIVMLRAIRDFFWKTGNKIGFKPAGGIRSAKDSLAWLSLVKEELGDEWLKPELFRIGASTLLSDIERQIYHHVTGRYAAYHDLPMS |
| 6686 | sp|Q6TV19|DICER\_DANRE | MAGLQLVTPASSPMGPFFGLPWQQEAIHDNIYTPRKYQVELLEAALEHNTIVCLNTGSGKTFIAVLLIKELSHQIRGENGKRTVFLVNAASSVAQQASTVRTHSDLQVGDYMSEDMTSWPEEMWNREMIENQVLVMTCHIFLHVLKNGVLPLSKINLLVFDECHLAITGHPYREIMKICEGCPSCPRILGLTASILNGKCDPCDLEEKIQNLEKILQSNAETATDLVVLDRYASQPREEVLDCGQYQDQSGLSERLLNELDEALNFLNDCNLSVHREDRDPTFISKQVLNDCRAVLTVLGPWCADKAAGIMVRELQKYIKHEQEELNRKFLLFTDTILRKIHALCEEHFSPASLDLKFVTPKVIRLLEILHEYKPFERQQFESVEWYNNRNQDNYVSWSDSEDDDEDEEAEAKEKTEANFPSPFTNILCGIIFVERRYTAVVLNRLIKEAGKQDPELAYISSNFITGHSIGKNQPRNKQMEVEFRKQEEVLRKFRAHETNLLIATSIVEEGVDIPKCNLVVRFDLPTEYRSYVQSKGRARAPVSNYIMLADSERTKTFQEDLKTYKAIEKILRNKCSKSAECNDFELEPVTDDDNVLPPYVLRSEDGGPRVTMNTAIGHVNRYCARLPSDPFTHLAPKCKTVEMNTGGYRSTLFLPINSPLRVPVTGPVMNCARLAEKAVALLCCEKLHKIGELDDHLMPVGKETVKYEEELDLHDEEETSVPGRPGSTKRRQCSPKAIPECLRGCYPVPEQPCYLYVIGMVLTTPLPDELNFRRRKLYPPEDTTRCFGILTAKPIPRIPHFPVYTRSGEVTISIELQKSGFSLSAEQLELITRLHQYIFSHILRLEKPALEFKPVEADSAYCVLPLNIVEDSNTLDLDFKFMEDIEKSEARIGIPNTQYTKQNPFIFKLEDYQDAVIIPRYRNFDQPHRFYVADVYTDLTPLSKFPSPEYETFAEYYKTKYNLDLSNVNQPLLDVDHTSSRLNLLTPRHLNQKGKALPLSSAEKRKAKWESLQNKQILVPELCAIHPIPASLWRKAVCLPSILYRLHCLLTAEELRSQTAIDAGVGAQTLPPDFRYPNLDFGWKKSIDSKSFISCPSACMEEDDDHCKLGTSSDSNHTAPESCSMEVSQPPEGAPNTPDEKLETLTLPVTDLNKDCFPNLPNGTQADSDDLPHRSDVCQCSQLGPLERDLSTQTTTSVSVRPSPAGEPQPWPSDECTGRSSDLCDPHVKKPTSKHCPKSETATSTPAPSETSSEDCRSACAGPAWDSPKTLGPNPGLILQALTLSNASDGFNLERLEMLGDSFLKHAITTYLFCTYPDAHEGRLSYMRSKKVSNCNLYRLGKKKGLPSRMVVSIFDPPVNWLPPGYVVNQDKSSTDKWDSDENKDLANGKASDDEDEDDDDEPEEAEVEPSKEDVNVEDDLEYYYEHIRFIDSMLIGSGAFGKKISLQPTDPGYEWKAPKKAHNSHFSPDGGADEFDYSSWDAMCYLDPSKAGEEDDFVVGFWNPSEENCGTDIGKQSISYDLHTEQCIADKSIADCVEALLGCYLTSCGERAAQLFLCSLGLKVLPPEKQSSGGSAELQYGWLKIPPRCMFEHPDAERTLNHLISGFLNFESKINYTFKNKAYLLQAFTHASYHYNTITDCYQRLEFLGDAILDYLITKHLYEDPRQHSPGVLTDLRSALVNNTIFASLAVKYDYHKYFKAVSPELFHVIDDFVQFQLEKNEMQGMDSELRRSEEDEEKEEDIEVPKAMGDIFESLAGAIYMDSGMSLETVWQVYYPMMRPLIEKFSANVPRSPVRELLEMEPETAKFSPAERTYDGKVRVTVEVVGKGKFKGVGRSYRIAKSAAARRALRSLKANQPQVQNN |
| 6687 | sp|Q13574|DGKZ\_HUMAN | MEPRDGSPEARSSDSESASASSSGSERDAGPEPDKAPRRLNKRRFPGLRLFGHRKAITKSGLQHLAPPPPTPGAPCSESERQIRSTVDWSESATYGEHIWFETNVSGDFCYVGEQYCVARMLKSVSRRKCAACKIVVHTPCIEQLEKINFRCKPSFRESGSRNVREPTFVRHHWVHRRRQDGKCRHCGKGFQQKFTFHSKEIVAISCSWCKQAYHSKVSCFMLQQIEEPCSLGVHAAVVIPPTWILRARRPQNTLKASKKKKRASFKRKSSKKGPEEGRWRPFIIRPTPSPLMKPLLVFVNPKSGGNQGAKIIQSFLWYLNPRQVFDLSQGGPKEALEMYRKVHNLRILACGGDGTVGWILSTLDQLRLKPPPPVAILPLGTGNDLARTLNWGGGYTDEPVSKILSHVEEGNVVQLDRWDLHAEPNPEAGPEDRDEGATDRLPLDVFNNYFSLGFDAHVTLEFHESREANPEKFNSRFRNKMFYAGTAFSDFLMGSSKDLAKHIRVVCDGMDLTPKIQDLKPQCVVFLNIPRYCAGTMPWGHPGEHHDFEPQRHDDGYLEVIGFTMTSLAALQVGGHGERLTQCREVVLTTSKAIPVQVDGEPCKLAASRIRIALRNQATMVQKAKRRSAAPLHSDQQPVPEQLRIQVSRVSMHDYEALHYDKEQLKEASVPLGTVVVPGDSDLELCRAHIERLQQEPDGAGAKSPTCQKLSPKWCFLDATTASRFYRIDRAQEHLNYVTEIAQDEIYILDPELLGASARPDLPTPTSPLPTSPCSPTPRSLQGDAAPPQGEELIEAAKRNDFCKLQELHRAGGDLMHRDEQSRTLLHHAVSTGSKDVVRYLLDHAPPEILDAVEENGETCLHQAAALGQRTICHYIVEAGASLMKTDQQGDTPRQRAEKAQDTELAAYLENRQHYQMIQREDQETAV |
| 6688 | sp|Q9CWR8|DNM3L\_MOUSE | MGSRETPSSCSKTLETLDLETSDSSSPDADSPLEEQWLKSSPALKEDSVDVVLEDCKEPLSPSSPPTGREMIRYEVKVNRRSIEDICLCCGTLQVYTRHPLFEGGLCAPCKDKFLESLFLYDDDGHQSYCTICCSGGTLFICESPDCTRCYCFECVDILVGPGTSERINAMACWVCFLCLPFSRSGLLQRRKRWRHQLKAFHDQEGAGPMEIYKTVSAWKRQPVRVLSLFRNIDKVLKSLGFLESGSGSGGGTLKYVEDVTNVVRRDVEKWGPFDLVYGSTQPLGSSCDRCPGWYMFQFHRILQYALPRQESQRPFFWIFMDNLLLTEDDQETTTRFLQTEAVTLQDVRGRDYQNAMRVWSNIPGLKSKHAPLTPKEEEYLQAQVRSRSKLDAPKVDLLVKNCLLPLREYFKYFSQNSLPL |
| 6689 | sp|P16444|DPEP1\_HUMAN | MWSGWWLWPLVAVCTADFFRDEAERIMRDSPVIDGHNDLPWQLLDMFNNRLQDERANLTTLAGTHTNIPKLRAGFVGGQFWSVYTPCDTQNKDAVRRTLEQMDVVHRMCRMYPETFLYVTSSAGIRQAFREGKVASLIGVEGGHSIDSSLGVLRALYQLGMRYLTLTHSCNTPWADNWLVDTGDSEPQSQGLSPFGQRVVKELNRLGVLIDLAHVSVATMKATLQLSRAPVIFSHSSAYSVCASRRNVPDDVLRLVKQTDSLVMVNFYNNYISCTNKANLSQVADHLDHIKEVAGARAVGFGGDFDGVPRVPEGLEDVSKYPDLIAELLRRNWTEAEVKGALADNLLRVFEAVEQASNLTQAPEEEPIPLDQLGGSCRTHYGYSSGASSLHRHWGLLLASLAPLVLCLSLL |
| 6690 | sp|Q61712|DNJC1\_MOUSE | MWVPGFGSARLPQRRRSGLESSSVRPLWLLLLFLLAAVRPVRAWESGDLELFDLVEEVQLNFYEFLGVQQDASSADIRKAYRKLSLTLHPDKNKDENAETQFRQLVAIYEVLKDDERRQRYDDVLINGLPDWRQPVFYYRRVRKMSNAELALLLFIILTVGHYAVVWSIYLEKQLDELLGRKKRERKKKTGSKSVDAAKLGASEKNERLLIKPQWHDLLPCKLGIWFCLTLKALPHLIQDAGQFYAKYKETKLKEKEDALARIEIETLQKQKKVKVKKPKPEFPVYMPLENTYIQSYDHGTSIEEIEEQMDDWLENRKRTQKRQAPEWTEEDLSQLTRSMVKFPGGTPGRWDKIAHELGRSVTDVTTKAKELKDSVTSSPGMTRLSELKSNGQNSRPIKIATALPDDIITQREDSAGAMEDEEHEAAEGEQESATTEARPRRRKSARAAEAVTRVEPEEKLRGKRQKDFDISEQNDSSDEEKQRKERTRAAEEAWTQSQQKLLELALQQYPKGASDRWDKIAKCVPSKSKEDCIARYKLLVELVQKKKQAKS |
| 6691 | sp|P70175|DLG3\_MOUSE | MHKHQHCCKCPECYEVTRLAALRRLEPPGYGDWQVPDPYGPSGGNGASSGYGGYSSQTLPSQAGATPTPRTKAKLIPTGRDVGPVPPKPVPGKSTPKLNGSGPGWWPECTCTNRDWYEQASPAPLLVNPEALEPSLSVNGSDGMFKYEEIVLERGNSGLGFSIAGGIDNPHVPDDPGIFITKIIPGGAAAMDGRLGVNDCVLRVNEVDVSEVVHSRAVEALKEAGPVVRLVVRRRQPPPETIMEVNLLKGPKGLGFSIAGGIGNQHIPGDNSIYITKIIEGGAAQKDGRLQIGDRLLAVNNTNLQDVRHEEAVASLKNTSDMVYLKVAKPGSIHLNDMYAPPDYASTFTALADNHISHNSSLGYLGAVESKVTYPAPPQVPPTRYSPIPRHMLAEEDFTREPRKIILHKGSTGLGFNIVGGEDGEGIFVSFILAGGPADLSGELRRGDRILSVNGVNLRNATHEQAAAALKRAGQSVTIVAQYRPEEYSRFESKIHDLREQMMNSSMSSGSGSLRTSEKRSLYVRALFDYDRTRDSCLPSQGLSFSYGDILHVINASDDEWWQARLVTPHGESEQIGVIPSKKRVEKKERARLKTVKFHARTGMIESNRDFPGLSDDYYGAKNLKGVTSNTSDSESSSKGQEDAILSYEPVTRQEIHYARPVIILGPMKDRVNDDLISEFPHKFGSCVPHTTRPRRDNEVDGQDYHFVVSREQMEKDIQDNKFIEAGQFNDNLYGTSIQSVRAVAERGKHCILDVSGNAIKRLQQAQLYPIAIFIKPKSIEALMEMNRRQTYEQANKIFDKAMKLEQEFGEYFTAIVQGDSLEEIYNKIKQIIEDQSGHYIWVPSPEKL |
| 6692 | sp|Q8NF50|DOCK8\_HUMAN | MATLPSAERRAFALKINRYSSAEIRKQFTLPPNLGQYHRQSISTSGFPSLQLPQFYDPVEPVDFEGLLMTHLNSLDVQLAQELGDFTDDDLDVVFTPKECRTLQPSLPEEGVELDPHVRDCVQTYIREWLIVNRKNQGSPEICGFKKTGSRKDFHKTLPKQTFESETLECSEPAAQAGPRHLNVLCDVSGKGPVTACDFDLRSLQPDKRLENLLQQVSAEDFEKQNEEARRTNRQAELFALYPSVDEEDAVEIRPVPECPKEHLGNRILVKLLTLKFEIEIEPLFASIALYDVKERKKISENFHCDLNSDQFKGFLRAHTPSVAASSQARSAVFSVTYPSSDIYLVVKIEKVLQQGEIGDCAEPYTVIKESDGGKSKEKIEKLKLQAESFCQRLGKYRMPFAWAPISLSSFFNVSTLEREVTDVDSVVGRSSVGERRTLAQSRRLSERALSLEENGVGSNFKTSTLSVSSFFKQEGDRLSDEDLFKFLADYKRSSSLQRRVKSIPGLLRLEISTAPEIINCCLTPEMLPVKPFPENRTRPHKEILEFPTREVYVPHTVYRNLLYVYPQRLNFVNKLASARNITIKIQFMCGEDASNAMPVIFGKSSGPEFLQEVYTAVTYHNKSPDFYEEVKIKLPAKLTVNHHLLFTFYHISCQQKQGASVETLLGYSWLPILLNERLQTGSYCLPVALEKLPPNYSMHSAEKVPLQNPPIKWAEGHKGVFNIEVQAVSSVHTQDNHLEKFFTLCHSLESQVTFPIRVLDQKISEMALEHELKLSIICLNSSRLEPLVLFLHLVLDKLFQLSVQPMVIAGQTANFSQFAFESVVAIANSLHNSKDLSKDQHGRNCLLASYVHYVFRLPEVQRDVPKSGAPTALLDPRSYHTYGRTSAAAVSSKLLQARVMSSSNPDLAGTHSAADEEVKNIMSSKIADRNCSRMSYYCSGSSDAPSSPAAPRPASKKHFHEELALQMVVSTGMVRETVFKYAWFFFELLVKSMAQHVHNMDKRDSFRRTRFSDRFMDDITTIVNVVTSEIAALLVKPQKENEQAEKMNISLAFFLYDLLSLMDRGFVFNLIRHYCSQLSAKLSNLPTLISMRLEFLRILCSHEHYLNLNLFFMNADTAPTSPCPSISSQNSSSCSSFQDQKIASMFDLTSEYRQQHFLTGLLFTELAAALDAEGEGISKVQRKAVSAIHSLLSSHDLDPRCVKPEVKVKIAALYLPLVGIILDALPQLCDFTVADTRRYRTSGSDEEQEGAGAINQNVALAIAGNNFNLKTSGIVLSSLPYKQYNMLNADTTRNLMICFLWIMKNADQSLIRKWIADLPSTQLNRILDLLFICVLCFEYKGKQSSDKVSTQVLQKSRDVKARLEEALLRGEGARGEMMRRRAPGNDRFPGLNENLRWKKEQTHWRQANEKLDKTKAELDQEALISGNLATEAHLIILDMQENIIQASSALDCKDSLLGGVLRVLVNSLNCDQSTTYLTHCFATLRALIAKFGDLLFEEEVEQCFDLCHQVLHHCSSSMDVTRSQACATLYLLMRFSFGATSNFARVKMQVTMSLASLVGRAPDFNEEHLRRSLRTILAYSEEDTAMQMTPFPTQVEELLCNLNSILYDTVKMREFQEDPEMLMDLMYRIAKSYQASPDLRLTWLQNMAEKHTKKKCYTEAAMCLVHAAALVAEYLSMLEDHSYLPVGSVSFQNISSNVLEESVVSEDTLSPDEDGVCAGQYFTESGLVGLLEQAAELFSTGGLYETVNEVYKLVIPILEAHREFRKLTLTHSKLQRAFDSIVNKDHKRMFGTYFRVGFFGSKFGDLDEQEFVYKEPAITKLPEISHRLEAFYGQCFGAEFVEVIKDSTPVDKTKLDPNKAYIQITFVEPYFDEYEMKDRVTYFEKNFNLRRFMYTTPFTLEGRPRGELHEQYRRNTVLTTMHAFPYIKTRISVIQKEEFVLTPIEVAIEDMKKKTLQLAVAINQEPPDAKMLQMVLQGSVGATVNQGPLEVAQVFLAEIPADPKLYRHHNKLRLCFKEFIMRCGEAVEKNKRLITADQREYQQELKKNYNKLKENLRPMIERKIPELYKPIFRVESQKRDSFHRSSFRKCETQLSQGS |
| 6693 | sp|P70396|DLX5\_MOUSE | MTGVFDRRVPSIRSGDFQAPFPTSAAMHHPSQESPTLPESSATDSDYYSPAGAAPHGYCSPTSASYGKALNPYQYQYHGVNGSAAGYPAKAYADYGYASPYHQYGGAYNRVPSATSQPEKEVAEPEVRMVNGKPKKVRKPRTIYSSFQLAALQRRFQKTQYLALPERAELAASLGLTQTQVKIWFQNKRSKIKKIMKNGEMPPEHSPSSSDPMACNSPQSPAVWEPQGSSRSLSHHPHAHPPTSNQSPASSYLENSASWYPSAASSINSHLPPPGSLQHPLALASGTLY |
| 6694 | sp|Q14565|DMC1\_HUMAN | MKEDQVVAEEPGFQDEEESLFQDIDLLQKHGINVADIKKLKSVGICTIKGIQMTTRRALCNVKGLSEAKVDKIKEAANKLIEPGFLTAFEYSEKRKMVFHITTGSQEFDKLLGGGIESMAITEAFGEFRTGKTQLSHTLCVTAQLPGAGGYPGGKIIFIDTENTFRPDRLRDIADRFNVDHDAVLDNVLYARAYTSEHQMELLDYVAAKFHEEAGIFKLLIIDSIMALFRVDFSGRGELAERQQKLAQMLSRLQKISEEYNVAVFVTNQMTADPGATMTFQADPKKPIGGHILAHASTTRISLRKGRGELRIAKIYDSPEMPENEATFAITAGGIGDAKE |
| 6695 | sp|P97677|DLL1\_RAT | MGRRSALALAVVSALLCQVWSSGVFELKLQEFVNKKGLLGNRNCCRGGSGPPCACRTFFRVCLKHYQASVSPEPPCTYGSAVTAVLGVDSFSLPDGAGIDPAFSNPIRFPFGFTWPGTFSLIIEALHTDSPDDLATENPERLISRLTTQRHLTVGEEWSQDLHSSGRTDLRYSYRFVCDEHYYGEGCSVFCRPRDDAFGHFTCGERGEKMCDPGWKGQYCTDPICLPGCDDQHGYCDKPGECKCRVGWQGRYCDECIRYPGCLHGTCQQPWQCNCQEGWGGLFCNQDLNYCTHHKPCRNGATCTNTGQGSYTCSCRPGYTGANCELEVDECAPSPCRNGGSCTDLEDSYSCTCPPGFYGKVCELSAMTCADGPCFNGGRCSDNPDGGYTCHCPAGFSGFNCEKKIDLCSSSPCSNGAKCVDLGNSYLCRCQTGFSGRYCEDNVDDCASSPCANGGTCRDSVNDFSCTCPPGYTGRNCSAPVSRCEHAPCHNGATCHQRGQRYMCECAQGYGGANCQFLLPEPPPDLIVAAQGGSFPWVAVCAGVVLVLLLLLGCAAVVVCVRLKLQKHQPPPDPCGGETETMNNLANCQREKDVSVSIIGATQIKNTNKKADFHGDHGADKSSFKARYPTVDYNLIRDLKGDEATVRDAHSKRDTKCQSQGSVGEEKSTSTLRGGEVPDRKRPESVYSTSKDTKYQSVYVLSAEKDECVIATEV |
| 6696 | sp|O60884|DNJA2\_HUMAN | MANVADTKLYDILGVPPGASENELKKAYRKLAKEYHPDKNPNAGDKFKEISFAYEVLSNPEKRELYDRYGEQGLREGSGGGGGMDDIFSHIFGGGLFGFMGNQSRSRNGRRRGEDMMHPLKVSLEDLYNGKTTKLQLSKNVLCSACSGQGGKSGAVQKCSACRGRGVRIMIRQLAPGMVQQMQSVCSDCNGEGEVINEKDRCKKCEGKKVIKEVKILEVHVDKGMKHGQRITFTGEADQAPGVEPGDIVLLLQEKEHEVFQRDGNDLHMTYKIGLVEALCGFQFTFKHLDGRQIVVKYPPGKVIEPGCVRVVRGEGMPQYRNPFEKGDLYIKFDVQFPENNWINPDKLSELEDLLPSRPEVPNIIGETEEVELQEFDSTRGSGGGQRREAYNDSSDEESSSHHGPGVQCAHQ |
| 6697 | sp|F1NY98|DSCAM\_CHICK | MWMLAVALLHSISHGILTENFLSHHAFPSLLLSLHFSHPSVFSEDLHASLYFVNASLQEVVFASTTGTLVPCPAAGIPPVTLRWYLATGEEIYDVPGIRHVHPNGTLQIFPFPPSSFNNLIHDNTYYCTAENPSGKIRSQDVHIKAVLREPYTVRVEDQKAMRGNVAVFKCIIPSSVEAYITVVSWEKDTVSLVSGPRFLITSTGALYILDVQNEDGLYNYRCITRHRYTGETRQSNSARLFVSDPANSAPSILDGFDHRKAMAGQRVELPCKASGHPTPKYRWLKDNIPWEPDSRFRQTVTGLLIENTRPSDSGNYVCEVWNNYGTAEMIGRLYVKQPLKATISPRKVKSSVGSQVSLSCSVTGTEDQELSWYRNGEIINPGNNVRITGINRENLIMDGMAKSDGGAYQCFVRKDKMSAQDYVQVILEDGTPKIISAFSEKVVSPGEPVSLMCNVKGTPLPTITWTLDEDPIVKDGSHRISQIITSEGNVVSYLNISNTQVRDGGVYRCTANNSAGVVLYQARINVRGPASIRPMKNITAIAGRDTYIHCRVIGYPYYSIKWYKNSNLLPFNHRQVAFENNGTLKLSDVQKEVDEGEYTCNVLVQPQLSTSQSVHVTVKVPPFIQPFEFPRFSIGQRVFIPCVVVSGDLPITITWQKDGRPIPASLGVTIDNIDFTSSLRISNLSLMHNGNYTCIARNDAAAVEHQSQLIVRVPPRFVVQPSDQDGIYGKAVILNCSAEGYPVPTIVWKYSKGAGVPQFQPIALNGRIQLLTNGSLLIKHVLEEDSGYYLCKVSNDVGADVSKSMYLTVKIPAMITSYPNTTLATQGQKKEMSCTAHGEKPIIVRWEKEDRIINPEMSRYLVSTKEVGDEVISTLQILPTVREDSGFFSCHAINSYGEDRGIIQLTVQEPPDPPEIEIREVRARSIALRWTMGFDGNSPITGYDIECKNKSDSWDSVQRTKDVSPQLNQATIIDLHPSSTYNIRMYAKNRIGKSEASNELTITTDEAAPDGPPQDVQLEPISSQSIRVTWKAPKKHLQNGIIRGYQIGYREYSAGGNFQFNIISIDTTGDSEVYTLNNLKKFTQYGMVVQACNRAGIGPSSQEIITTTLEDVPSCPPGNVQATATSPETISISWSTLAKETLNGILQGFRVIYWANLLDGELGEIRNVTTTQPSLELDGLEKYTNYSIQVLAFTRAGDGVRSEQIFTRTKEDVPGPPAGVKAAASSASTVFVSWLPPLKLNGIIRKYTVFCSHPYPTVISEFEASPDSFSYRIPNLSRNRQYSVWVVAVTAAGRGNSSEIITVEPLAKAPARILTFSGTVTTPWMKDIVLPCKAVGDPAPTVKWMKDSNGTPSLVMIDGRRSIFSNGSFVIRTVKAEDSGYYSCVASNNWGSDEIILNLQVQVPPDQPRLTVSKTTSSSITLSWIPGDNGGSSIRGYILQYSEDNSEQWGSFPISPSERSYRLETLKCGTWYKFTLTAQNGVGPGRISEIIEAKTLGKEPQFSKEQELFASINTTRVRLNLIGWNDGGCPITSFTLEYRPFGTTVWTTAQRTSLSKSYILYDLQEATWYELQMRVCNSAGCAEKQAKFATLNYDGSTIPPLIKSVVQSEEGLATNEGLKMLVTISCILVGVLLLFVMLLIVRRRRREQRLKRLRDAKSLAEMLMSKNTRTSDTLNKQQQTLRMHIDIPRAQLLIEERDTMETIDDRSTVLLTDADFGETSKQKSLTVTHTVHYQSVSQATGPLVDVSDARPGTNPTTRRSAKTGPTARNRYASQWTLNRPHPTISAHTLTTDWRLPTPRPAGSVDKESDSYSVSPSQDTDRARSSMVSTESASSTYEELARAYEHAKMEEQLRHAKFTITECFISDTSSEQLTAGTNDYTDSLTSSTPSESGICRFTASPPKPQDGGRVMNMAVPKAHRPGDLVHLPPYLRMDFLLNRGAQGASRDLGLGQACLEPQKSRTLKRPTVLEPIPMEASSTREAQSWQPGAVATLPQREGAELGQAAKMSSSQESLLDSRGHLKGNNPYAKSYTLV |
| 6698 | sp|Q86SJ6|DSG4\_HUMAN | MDWLFFRNICLLIILMVVMEVNSEFIVEVKEFDIENGTTKWQTVRRQKREWIKFAAACREGEDNSKRNPIAKIRSDCESNQKITYRISGVGIDRPPYGVFTINPRTGEINITSVVDREITPLFLIYCRALNSRGEDLERPLELRVKVMDINDNAPVFSQSVYTASIEENSDANTLVVKLCATDADEENHLNSKIAYKIVSQEPSGAPMFILNRYTGEVCTMSSFLDREQHSMYNLVVRGSDRDGAADGLSSECDCRIKVLDVNDNFPTLEKTSYSASIEENCLSSELIRLQAIDLDEEGTDNWLAQYLILSGNDGNWFDIQTDPQTNEGILKVVKMLDYEQAPNIQLSIGVKNQADFHYSVASQFQMHPTPVRIQVVDVREGPAFHPSTMAFSVREGIKGSSLLNYVLGTYTAIDLDTGNPATDVRYIIGHDAGSWLKIDSRTGEIQFSREFDKKSKYIINGIYTAEILAIDDGSGKTATGTICIEVPDINDYCPNIFPERRTICIDSPSVLISVNEHSYGSPFTFCVVDEPPGIADMWDVRSTNATSAILTAKQVLSPGFYEIPILVKDSYNRACELAQMVQLYACDCDDNHMCLDSGAAGIYTEDITGDTYGPVTEDQAGVSNVGLGPAGIGMMVLGILLLILAPLLLLLCCCKQRQPEGLGTRFAPVPEGGEGVMQSWRIEGAHPEDRDVSNICAPMTASNTQDRMDSSEIYTNTYAAGGTVEGGVSGVELNTGMGTAVGLMAAGAAGASGAARKRSSTMGTLRDYADADINMAFLDSYFSEKAYAYADEDEGRPANDCLLIYDHEGVGSPVGSIGCCSWIVDDLDESCMETLDPKFRTLAEICLNTEIEPFPSHQACIPISTDLPLLGPNYFVNESSGLTPSEVEFQEEMAASEPVVHGDIIVTETYGNADPCVQPTTIIFDPQLAPNVVVTEAVMAPVYDIQGNICVPAELADYNNVIYAERVLASPGVPDMSNSSTTEGCMGPVMSGNILVGPEIQVMQMMSPDLPIGQTVGSTSPMTSRHRVTRYSNIHYTQQ |
| 6699 | sp|Q19542|DYHC2\_CAEEL | MSSDSKDQRKTYFLRVASYLLGLNIVEEKLKSTEPLEIFLDSNTNLLVFSRSEQKLELSNKMKSSAPSANVFRVVFYKTQSVPLNNDNFKSVVNVISANGTLNHVFLKSVQNVFGKELTEGNNMQLIAAVNELEESLLATVEMSGGGSLHDEIRSWKGQTGKPANDYNEAFKQLQLLVETMEERSIDELSELVECFEDTCDELWNCGTPYPQNRMKMLIEYGASYLCETITFKIDDSAIWRNDKVADQLRSAIDVCDQMLIIVRLLTAQTWKRNVEHTWEGDAMEMKFLNGFKDRLDEILSLKSLGGQLEELLEERGVREETEKTIETAMRGMAPLAYNPFTEPNWKSRLLVSERSIEGTIDRTLPILKQRLAPANGDSQSIVLSLEKLKSFLCRSNIKEKLQHEREMFLNRLVSMLSQKNQEFNEKSLQVDAKNFQFLTEVAARIVWIRQQTSQMESIRSLSKMMLNNISNYSAFASKLDEFIEKLQYAEKECFDDWCRETVGLIDNKNETINLETTGKIMYLEASNRELNVNYSDRLLRLLKEVRQLISLGFNIPSKIMSCANNGEKYYRFGVILKQIAHFYNTIDQQMIPSQQSLMLEEAIAFEKLVIPRKDASNSASKVTWNDPKQLEEFIVQLQSAEQKLSNRNRRLRNVHMELIEMVEKLMDLNIVKQNNEWKEIILKIRSKMKEEEIVHGAVKNNMKPWLIHWDFQLYKALLIQYEWGIESIQSQLSTISVSLVFADQKIQLRPTIEEIRSKYYKELCRFLRIPDKFRGVQEDENSTKFYAQMIERSMHLLPTVYEKAEQLMMKVETCDAIFVDWLVISQVDLEELIEENLKTAADWESQFKILKGKAREAERLPHELKFECILVSTAGVKSAIEDAIQRLYDALSWTLRHSISTTSQSISTFLSQAIEVLNTVPQSIDEIAEANAKHVIFAENNRRLKEEWKVMEEQLTLLRSVAGTGMEQIDNLEQTWDRFELMLDGHQSMIKDQVEVLKSNVETSVKGMKDEAEKLKARWEQFKPRNDALQGDREEMLKAIQFIKEKRVQWQQLSDGREKIEKECGQFGLEPPKMDIIDEIDEDIKQFEDNWLIYEMFNNELDTMSQEEWIVFRSKTYLFDEFLQKWMEKLKGTGSQTHMSVRLMKDVEHFKEVSSALKFCRGDVLSADHWHEMFRFLGLPRGTTIEKLKFADLLSVSKNIIENTDQLKQLNSRAQGEVAIRDAIQELTLWAAQTEFTLADYKHSNGQNLKIIKEWKESINSLKDSQALLQSLKSSPYYSQFTDKTAVWETRLADLDVFLAQMNEIQRKWIYLEPIFGRGALPSEASRFSRVDSEYRAILNDVSKDARLVSLCSRQSLKKSLEQIVDQLNRCQKALNQFLEQKRTAFPRFYFIGDDDLLEILGQSTNPQVIQTHMKKLFQGINRVQFSSTGETIISMVSSEGETVPLSKAVRIVPQVESWLQELSDEMRRTLKDLTAQAVADAQPSLAKYPSQVLCLAEEVKFSASIENNLNGSSDLNSFKSQLLEKLKAYTNMKVDDKVSDLKLKSLILDLIHHIDVVDQLLTNQAKSINSWTWQRQLRFYLVNGGIVLRQVSSEFEYTYEYQGNYAKLVHTPLTDKCYLTLTQAMYMGLGGNPYGPAGTGKTESVKALAALMGRQVLVFNCDEGIDVTSMGRIFTGIVECGAWGCFDEFNRLDSTVLSAVSMQIQTIQGAIKSRAGSCTFGGKNVQVNPNSAIFVTLNPAGKGYGGRQKMPDNLKQLFRAVVMGKPDNELISSTILYSEGFVDATALARKIVSVFQLSRQMLSKQQHYDWGLRALKVVLGGCGALRRTQTNKNETDLVVQALLLNTLSKLTFSDSERFNSLIDDIFSNVTKEMTKFEELVEPLGVAAQEMGIKLGDKQMEKVFQLYEQMRQRIGVVVVGAAGSGKSTIWKILQRSLILTKKPLKVTQFNPKAVNRSKLLGNMDMDTREWSDGIITMAAREVTKDTSVHHWIVCDGDIDPEWVEALNSVLDDNRLLTMPSGERIQFGSNVNFLFETDSLQFASPATVSRMGMIYISEEDVTPKDIVASWLVKTTEDLHADMPSWIEEHFWRCLKWVRSHKISGITSFAILKNGLTHLKASKTKTQFLVLLFNGFLPTVTPENRQEFAKGVVFQGMSVPDPKNICYDERIDGIMSYTDDVSQNVTKEEVEREDLRPFVQTADTQRYSDIIGSWLQSGNRESFLITGTTGCGKQQLLKHCFQNDPESQLASLYCSAQSSSSHLLQLIQQNCVQASNPTGRVWRPKDRPNMILFLKGINLPAPDKYGTNELLALLQQLLTYQGFFDHNLEWVSIENIQFVGSMNPIGDGAAVSISNRLFSLLRCVSLNTTDSSQLTSIYRTYLTPILEEVGERNSEIIANRMVDIYNKVQSNFRPTDSVVFLFSPRDLTNWVVSLLRHELDQGKLEAVICFEARRIFADRLPTENDKLKFEEILRNVIPISQANETVIFKEKVYVTTGTVVPGESNTGLPLTPINMSDFNQLLAKSINRFAFEIANFNCPLTSQLAFFCACIDRVLTGPGGHLFLPGRPGFGRRDSVRLVAHMHNIQVFSPPVTANFSAKQFDNELKNAITQAVTNNEHVVLILEDHQLRKNIFLQAINSLLASGNVPGLFTQQELDGLVALVSEAANQASFTGALQQFLAHRIRSLVHVVLILEVEANDFKINITENPAILKHCNVIFADRFDRNSLVEIPKIQMESQGITTTDAILTGFNDVLVNLPEHLSIQPIKYRQFVENFFQLLGYKRLTLSVRLERLKGGVSKLNEARDEVAKMQKKAGKKSKLLAEKQAEADEALKAITESMSGAEDQKLSMEQLKAATEKENVRIEEQKAKIDEQLKEVQPLIDEARRAVGSIKSESLSEIRSLRAPPEAVRDILQAVLLFMGILDTSWEAMRKFLSKSGVKDDIMNFDANRITNEIHKKVTALVKQKSNSFEEANAKRASAAAAPLAAWVKANLEYSKILEKIAPLEGEKNKLVKNLKKAEKQMENLSKGLQSVDEVVGELKRKFEVLMKEATQIKVDLDREQDTIRIAGTLVESLSGEFERWKIQIETFGEEQSKMELCSLITSAFITYLGGCSEKDRKSLLKSMCKMFNMPPTFKPLSFASLETEQLNWKTKGLPADQLSLENGSILFTSCHAPLIIDRSGQVSLFLSKFLEKSETFKAAQPDLMTQIELAIRFGKTIIIDDIVEFDSALIPILRKDLSSQGPRQVISFGGKSIDFNPDFKIYFCTRDEKVDIRPNSYVQLNIVNFTTTISALSAQLLDVAIHLEKPELEERSSSLLRDAELKKLELEGLEQLLLQQLASSQGNLLENTALLDSLNKSKESAEIITKSIVESEQLHKELTTQKDIYVPLSLFTSSLFFSFSNLQFHNPMYNYSVNTIMHLFGKTIKSCEDKSSTRVETLARQMQLTVFYHISRGIFRQDRLMFAVAFINATMPKMFQPKEWELFTGVLVDESTDLSALRVQWISPDRLQSLARIRTHLPSLFNNFQIQDDATWNEFSKTLQCENAFPKNVELKMTHFQKVLFIQAVKPERLYNCLMDFVLKTLNIPSINPPAFELKHIFQESESTEPILFILADGADPSQELSEFASSMNVPYHSISMGQGQEIAAYEAIRESASKGEWLCLNNLHLMLQAVPSIFKHLSLTTPHENFRLWLTTEGDARFPSMMLQQSLKITFEPPPGVRNNLLRTYTQIDRSTKNVITCQSIFVLAWLHALLQERRTFIPQGWTKFYEFGASDVRVAKSFVEQLTANKADWEFVRGILKFVIYGGRIENDFDFKVLDSYLNVLFCDEKINGRAGSQLVKGIDLLATTNVQEYIGHISKSVPSVDEPYLFGLPENIKYSWQIVEADRTISSIRTLALGDTKNALSDQSDKISQIVSLWKKLCQSDDLPKRELPTAIRSADPISEVLCLETINALSLIKQLHRSIGHVAKSMKTPSLASPAVQKTIQSLVFQQTPDEWDSMWAGPSDPADYLNVVVKKTRGTLQLFESSKSSSLLSSPIDFSDLFYPNIFLNALRQTTSRQIKIPLDQLILSSAWTPSQLPAKQCVQVQGLLLQGATFDSFLRETTVSSAAYSQAPIVFLAWTSESSSTITGEQIQVPVYSSSERSDLICSVNMPCRGADQWNIAAVALFLR |
| 6700 | sp|P29692|EF1D\_HUMAN | MATNFLAHEKIWFDKFKYDDAERRFYEQMNGPVAGASRQENGASVILRDIARARENIQKSLAGSSGPGASSGTSGDHGELVVRIASLEVENQSLRGVVQELQQAISKLEARLNVLEKSSPGHRATAPQTQHVSPMRQVEPPAKKPATPAEDDEDDDIDLFGSDNEEEDKEAAQLREERLRQYAEKKAKKPALVAKSSILLDVKPWDDETDMAQLEACVRSIQLDGLVWGASKLVPVGYGIRKLQIQCVVEDDKVGTDLLEEEITKFEEHVQSVDIAAFNKI |
| 6701 | sp|Q96JB1|DYH8\_HUMAN | MMKLYIDNAAPDKLKGLCIFFVRCRNDVAINVKTIQEEALFTVLDASKGLLNGIRDMLANIFLPAVLATNNWGALNQSKQGESEKHIFTETINRYLSFLDGARISIEGTVKLKTIDNVNFSKLHTFEEVTAAASNSETVHQLEEVLMVWYKQIEQVLIESEQMRKEAGDSGPLTELEHWKRMSAKFNYIIEQIKGPSCKAVINVLNVAHSKLLKNWRDLDARITDTANESKDNVRYLYTLEKVCQPLYNHDLVSMAHGIQNLINAIRMIHGVSRYYNTSERMTSLFIKVTNQMVTACKAYITDGGLNHVWDQETPVVLKKIQDCIFLFKEYQASFHKTRKLISESSGEKSFEVSEMYIFGKFEAFCKRLEKITEMITVVQTYSTLSNSTIEGIDIMAIKFRNIYQGVKKKQYDILDPRRTEFDTDFLDFMTKINGLEVQIQAFMNSSFGKILSSQQALQLLQRFQKLNIPCLGLEINHTIERILQYYVAELDATKKLYHSQKDDPPLARNMPPIAGKILWVRQLYRRISEPINYFFKNSDILSSPDGKAVIRQYNKISYVLVEFEVVYHTAWIREISQLHYALQATLFVRHPETGKLLVNFDPKILEVVRETKCMIKMKLDVPEQAKRLLKLESKLKADKLYLQGLLQYYDELCQEVPSVFVNLMTPKMKKVESVLRQGLTVLTWSSLTLESFFQEVELVLDMFNQLLKKISDLCEMHIDTVLKEIAKTVLISLPESGATKVEDMLTLNETYTKEWADILNHKSKHVEEAVRELISIFEQIYEVKYTGKVGKQSEQRKHVVFGSETGEGENNDYEANIVNEFDTHDKEDEFKKECKEVFAFFSHQLLDSLQKATRLSLDTMKRRIFVASLYGRKQSEDIISFIKSEVHLAIPNVVMIPSLDDIQQAINRMIQLTLEVSRGVAHWGQQQIRPIKSVIPSPTTTDVTHQNTGKLLKKEERSFEEAIPARKLKNFYPGVAEHKDISKLVLLLSSSVNSLRKAAHEALQDFQKYKTLWTEDRDVKVKEFLANNPSLTEIRSEILHYATFEQEIDELKPIIVVGALELHTEPMKLALSIEAKAWKMLLCRYLNEEYKKKMSYMIAFINEYLKKLSRPIRDLDDVRFAMEALSCIRDNEIQMDMTLGPIEEAYAILNRFEVEVTKEESEAVDTLRYSFNKLQSKAVSVQEDLVQVQPKFKSNLLESVEVFREDVINFAEAYELEGPMVPNIPPQEASNRLQIFQASFDDLWRKFVTYSSGEQLFGLPVTDYEVLHKTRKELNLLQKLYGLYDTVMSSISGYYEILWGDVDIEKINAELLEFQNRCRKLPKGLKDWQAFLDLKKRIDDFSESCPLLEMMTNKAMKQRHWDRISELTGTPFDVESDSFCLRNIMEAPLLKHKDDIEDICISAIKEKDIEAKLTQVIENWTNQNLSFAAFKGKGELLLKGTESGEIITLMEDSLMVLGSLLSNRYNAPFKKNIQNWVYKLSTSSDIIEEWLVVQNLWVYLEAVFVGGDIAKQLPQEAKRFQNIDKSWIKIMQRAHENPNVINCCVGDETMGQLLPHLHEQLEVCQKSLTGYLEKKRLLFPRFFFVSDPVLLEILGQASDSHTIQPHLPAVSDNINEVTFHAKDYDRIMAVISREGEKIVLDNSVMAKGPVEIWLLDLLKMQMSSLHNIIRSAFYQISDSGFQLLPFLSHFPAQVGLLGIQMLWTHDSEEALRNAKDDRKIMQVTNQKFLDILNTLISQTTHDLSKFDRVKFETLITIHVHQRDIFDDLVKMHIKSPTDFEWLKQSRFYFKEDLDQTVVSITDVDFIYQNEFLGCTDRLVITPLTDRCYITLAQALGMNMGGAPAGPAGTGKTETTKDMGRCLGKYVVVFNCSDQMDFRGLGRIFKGLAQSGSWGCFDEFNRIELPVLSVAAQQIYIVLTARKERKKQFIFSDGDCVDLNPEFGIFLTMNPGYAGRQELPENLKIQFRTVAMMVPDRQIIMRVKLASCGFLENVILAQKFYVLYKLCEEQLTKQVHYDFGLRNILSVLRTLGSQKRARPEDSELSIVMRGLRDMNLSKLVDEDEPLFLSLINDLFPGLQLDSNTYAELQNAVAHQVQIEGLINHPPWNLKLVQLYETSLVRHGLMTLGPSGSGKTTVITILMKAQTECGRPHREMRMNPKAITAPQMFGRLDTATNDWTDGIFSTLWRKTLKAKKGENIFLILDGPVDAIWIENLNSVLDDNKTLTLANGDRIPMAPSCKLLFEVHNIENASPATVSRMGMVYISSSALSWRPILQAWLKKRTAQEAAVFLTLYEKVFEDTYTYMKLNLNPKMQLLECNYIVQSLNLLEGLIPSKEEGGVSCVEHLHKLFVFGLMWSLGALLELESREKLEAFLRQHESKLDLPEIPKGSNQTMYEFYVTDYGDWEHWNKKLQPYYYPTDSIPEYSSILVPNVDNIRTNFLIDTIAKQHKAVLLTGEQGTAKTVMVKAYLKKYDPEVQLSKSLNFSSATEPMMFQRTIESYVDKRIGSTYGPPGGRKMTVFIDDINMPVINEWGDQITNEIVRQMMEMEGMYSLDKPGDFTTIVDVQLIAAMIHPGGGRNDIPQRLKRQFTVFNCTLPSNASIDKIFGIIGCGYFDPCRSFKPQICEMIVNLVSVGRVLWQWTKVKMLPTPSKFHYIFNLRDLSRIWQGMLTIKAEECASIPTLLSLFKHECSRVIADRFITPEDEQWFNAHLTRAVEENIGSDAASCILPEPYFVDFLREMPEPTGDEPEDSVFEVPKIYELMPSFDFLAEKLQFYQRQFNEIIRGTSLDLVFFKDAMTHLIKISRIIRTSCGNALLVGVGGSGKQSLSRLASFIAGYQIFQITLTRSYNVTNLTDDLKALYKVAGADGKGITFIFTDSEIKDEAFLEYLNNLLSSGEISNLFARDEMDEITQGLISVMKRELPRHPPTFDNLYEYFISRSRKNLHVVLCFSPVGEKFRARSLKFPGLISGCTMDWFSRWPREALIAVASYFLSDYNIVCSSEIKRQVVETMGLFHDMVSESCESYFQRYRRRAHVTPKSYLSFINGYKNIYAEKVKFINEQAERMNIGLDKLMEASESVAKLSQDLAVKEKELAVASIKADEVLAEVTVSAQASAKIKNEVQEVKDKAQKIVDEIDSEKVKAESKLEAAKPALEEAEAALNTIKPNDIATVRKLAKPPHLIMRIMDCVLLLFQKKIDPVTMDPEKSCCKPSWGESLKLMSATGFLWSLQQFPKDTINEETVELLQPYFNMDDYTFESAKKVCGNVAGLLSWTLAMAIFYGINREVLPLKANLAKQEGRLAVANAELGKAQALLDEKQAELDKVQAKFDAAMNEKMDLLNDADTCRKKMQAASTLIDGLSGEKIRWTQQSKEFKAQINRLVGDILLCTGFLSYLGPFNQIFRNYLLKDQWEMELRARKIPFTENLNLISMLVDPPTIGEWGLQGLPGDDLSIQNGIIVTKATRYPLLIDPQTQGKTWIKSKEKENDLQVTSLNHKYFRTHLEDSLSLGRPLLIEDIHEELDPALDNVLEKNFIKSGTTFKVKVGDKECDIMDTFKLYITTKLPNPAFTPEINAKTSVIDFTVTMKGLENQLLRRVILTEKQELEAERVKLLEDVTFNKRKMKELEDNLLYKLSATKGSLVDDESLIGVLRTTKQTAAEVSEKLHVAAETEIKINAAQEEFRPAATRGSILYFLITEMSMVNIMYQTSLAQFLKLFDQSMARSEKSPLPQKRITNIIEYLTYEVFTYSVRGLYENHKFLFVLLMTLKIDLQRGTVKHREFQALIKGGAALDLKACPPKPYRWILDMTWLNLVELSKLPQFAEIMNQISRNEKGWKSWFDKDAPEEEIIPDGYNDSLDTCHKLLLIRSWCPDRTVFQARKYIADSLEEKYTEPVILNLEKTWEESDTRTPLICFLSMGSDPTNQIDALAKKLKLECRTISMGQGQEVHARKLIQMSMQQGGWVLLQNCHLGLEFMEELLETLITTEASDDSFRVWITTEPHDRFPITLLQTSLKFTNEPPQGVRAGLKRTFAGINQDLLDISNLPMWKPMLYTVAFLHSTVQERRKFGPLGWNIPYEFNSADFSASVQFIQNHLDECDIKKGVSWNTVRYMIGEVQYGGRVTDDFDKRLLNCFARVWFSEKMFEPSFCFYTGYKIPLCKTLDQYFEYIQSLPSLDNPEVFGLHPNADITYQSNTASAVLETITNIQPKESGGGVGETREAIVYRLSEDMLSKLPPDYIPHEVKSRLIKMGHLNSMNIFLRQEIDRMQRVISILRSSLSDLKLAIEGTIIMSENLRDALDNMYDARIPQLWKRVSWDSSTLGFWFTELLERNAQFSTWIFEGRPNVFWMTGFFNPQGFLTAMRQEVTRAHKGWALDTVTIHNEVLRQTKEEITSPPGEGVYIYGLYMDGAAWDRRNGKLMESTPKVLFTQLPVLHIFAINSTAPKDPKLYVCPIYKKPRRTDLTFITVVYLRTVLSPDHWILRGVALLCDIK |
| 6702 | sp|Q9ERC8|DSCAM\_MOUSE | MWILALSLFQSFANVFSEEPHSSLYFVNASLQEVVFASTSGTLVPCPAAGIPPVTLRWYLATGEEIYDVPGIRHVHPNGTLQIFPFPPSSFSTLIHDNTYYCTAENPSGKIRSQDVHIKAVLREPYTVRVEDQKTMRGNVAVFKCIIPSSVEAYVTVVSWEKDTVSLVSGSRFLITSTGALYIKDVQNEDGLYNYRCITRHRYTGETRQSNSARLFVSDPANSAPSILDGFDHRKAMAGQRVELPCKALGHPEPDYRWLKDNMPLELSGRFQKTVTGLLIENSRPSDSGSYVCEVSNRYGTAKVIGRLYVKQPLKATISPRKVKSSVGSQVSLSCSVTGNEDQELSWYRNGEILNPGKNVRITGLNHANLIMDHMVKSDGGAYQCFVRKDKLSAQDYVQVVLEDGTPKIISAFSEKVVSPAEPVSLVCNVKGTPLPTVTWTLDDDPILKGSGHRISQMITSEGNVVSYLNISSSQVRDGGVYRCTANNSAGVVLYQARINVRGPASIRPMKNITAIAGRDTYIHCRVIGYPYYSIKWYKNANLLPFNHRQVAFENNGTLKLSDVQKEVDEGEYTCNVLVQPQLSTSQSVHVTVKVPPFIQPFEFPRFSIGQRVFIPCVVVSGDLPITITWQKDGRPIPASLGVTIDNIDFTSSLRISNLSLMHNGNYTCIARNEAAAVEHQSQLIVRVPPKFVVQPRDQDGIYGKAVILNCSAEGYPVPTIVWKFSKGAGVPQFQPIALNGRIQVLSNGSLLIKHVVEEDSGYYLCKVSNDVGADVSKSMYLTVKIPAMITSYPNTTLATQGQRKEMSCTAHGEKPIIVRWEKEDRIINPEMARYLVSTKEVGEEVISTLQILPTVREDSGFFSCHAINSYGEDRGIIQLTVQEPPDPPEIEIKDVKARTITLRWTMGFDGNSPITGYDIECKNKSDSWDSAQRTKDVSPQLNSATIIDIHPSSTYSIRMYAKNRIGKSEPSNEITITADEAAPDGPPQEVHLEPTSSQSIRVTWKAPKKHLQNGIIRGYQIGYREYSTGGNFQFNIISIDTTGDSEVYTLDNLNKFTQYGLVVQACNRAGTGPSSQEIITTTLEDVPSYPPENVQAIATSPESISISWSTLSKEALNGILQGFRVIYWANLIDGELGEIKNVTTTQPSLELDGLEKYTNYSIQVLAFTRAGDGVRSEQIFTRTKEDVPGPPAGVKAAAASASMVFVSWLPPLKLNGIIRKYTVFCSHPYPTVISEFEASPDSFSYRIPNLSRNRQYSVWVVAVTSAGRGNSSEIITVEPLAKAPARILTFSGTVTTPWMKDIVLPCKAVGDPSPAVKWMKDSNGTPSLVTIDGRRSIFSNGSFIIRTVKAEDSGYYSCVANNNWGSDEIILNLQVQVPPDQPRLTVSKTTSSSITLSWLPGDNGGSSIRGYILQYSEDNSEQWGSFPISPSERSYRLENLKCGTWYKFTLTAQNGVGPGRISEIIEAKTLGKEPQFSKEQELFASINTTRVRLNLIGWNDGGCPITSFTLEYRPFGTTVWTTAQRTSLSKSYILYDLQEATWYELQMRVCNSAGCAEKQANFATLNYDGSTIPPLIKSVVQSEEGLTTNEGLKILVTISCILVGVLLLFVLLLVVRRRRREQRLKRLRDAKSLAEMLMSKNTRTSDTLSKQQQTLRMHIDIPRAQLLIEERDTMETIDDRSTVLLTDADFGEAAKQKSLTVTHTVHYQSVSQATGPLVDVSDARPGTNPTTRRNAKAGPTARNRYASQWTLNRPHPTISAHTLTTDWRLPTPRATGSVDKESDSYSVSPSQDTDRARSSMVSTESASSTYEELARAYEHAKMEEQLRHAKFTITECFISDTSSEQLTAGTNEYTDSLTSSTPSESGICRFTASPPKPQDGGRVVNMAVPKAHRPGDLIHLPPYLRMDFLLNRGAPGTSRDLSLGQACLEPQKSRTLKRPTVLEPTPMEASSSTSSTREGQQSWQQGAVATLPQREGAELGQAAKMSSSQESLLDSRGHLKGNNPYAKSYTLV |
| 6703 | sp|P35462|DRD3\_HUMAN | MASLSQLSSHLNYTCGAENSTGASQARPHAYYALSYCALILAIVFGNGLVCMAVLKERALQTTTNYLVVSLAVADLLVATLVMPWVVYLEVTGGVWNFSRICCDVFVTLDVMMCTASILNLCAISIDRYTAVVMPVHYQHGTGQSSCRRVALMITAVWVLAFAVSCPLLFGFNTTGDPTVCSISNPDFVIYSSVVSFYLPFGVTVLVYARIYVVLKQRRRKRILTRQNSQCNSVRPGFPQQTLSPDPAHLELKRYYSICQDTALGGPGFQERGGELKREEKTRNSLSPTIAPKLSLEVRKLSNGRLSTSLKLGPLQPRGVPLREKKATQMVAIVLGAFIVCWLPFFLTHVLNTHCQTCHVSPELYSATTWLGYVNSALNPVIYTTFNIEFRKAFLKILSC |
| 6704 | sp|P53168|DUO1\_YEAST | MSEQSQLDDSTIDKLIPQIFNEMRSNLNNTTNKFPKSTGGGASDNISANSNSIRSFNSITTQSLLKESESLDKITAMIKNVTAALKNNLPVYVNQVHEVCKSTNSILDSWINIHSQAGYIHKLMSDQTYLKLINDRLHNENVNTNDEDGSTLHNVIALKKKEILDLRQKLENRKGEKDAAPAKPPNQGLNPRYGVQSGRRPVPSAGISNNGRVRKTHVPASKRPSGIPRVTNRWTKPTASSSRKMFR |
| 6705 | sp|Q9NPA8|ENY2\_HUMAN | MVVSKMNKDAQMRAAINQKLIETGERERLKELLRAKLIECGWKDQLKAHCKEVIKEKGLEHVTVDDLVAEITPKGRALVPDSVKKELLQRIRTFLAQHASL |
| 6706 | sp|P29560|EDN1\_RABIT | MDYFSMMVSLLLVAFHGAPETAASGTELSTGAENPGEKPPASAPWRPRRSKRCSCSSLMDKECVYFCHLDIIWVNTPGHIVPYGLGSPSRSKRSLKDLFPTRAAYHKNRCQCTSPHDKKCWNFCQAGTELRAQETMEKGRNNLKKGKDCSKLGKKCILQKLMQGRKIRRLEAISNSIKTSFHAAQLRAQLHREQKVTHNRTH |
| 6707 | sp|P22389|EDN2\_MOUSE | MVSAWCSIALALLLALHEGKGQAAATLEQPASAPKGRGPHLRFRRCSCNSWLDKECVYFCHLDIIWVNTAGQTAPYGLGNPPRRRRRSLPKRCECSTAGDSACATFCHRRHWPEAVVAPSSQAPAAVLKTGKMWTAEGDLLRKLRDISATKLRFARLQPEVTRKAIPAYSRWRKR |
| 6708 | sp|P49222|EPB42\_MOUSE | MGQALSIKSCDFHAAENNEEHYTKAISSQHLTLRRGQSFTITLNFRAPTHTFLSALKKVALIAQTGEQPSKINKTQAIFPISSLGDQKGWSAAVEERDAQHWTVSVTTPVDAVIGHYSLLLQVSGKKQYPLGQFTLLFNPWNRDDAVFLQNEAERTEYVLNQNGFIYLGTADCIQEEPWDFGQFEKDVMDLSLKLLSMDKQVKDWNQPAHVARVVGALLHALKKKSVLPISQTQAAQEGALLYKRRGSVPILRQWLTGQGRAVYETQAWVSAAVACTVLRCLGIPARVVTTFDSAQGTVGSLLVDEYYNEEGLQNGEGQRGHIWVFQTSVECWMNRPDLSQGYGGWQILHPRAPNGAGVLGSCSLVPVRAVKEGELQLDPAVPELFAAVNASCVVWKCCEDGKLELTNSNRKDVGNCISTKVVGSDRCEDITQNYKYPAGSLQEKEVLEKVQKERLKLGKDNGMCPPSCEPWDPLHMFFEASSSIPLSGDGQLSVTLINPTDEEKKVHLVIGAQALYYNGVLAAGLWSKKQLFMLKPNQVMRLSTNLSFSCFEQTPPENSFLRVTAMARYSHTSLSCFAQENMAIGKPDLIIEMPKRAAQYRPLTVSVRMHNSLEAPMQNCIISIFGRGLIHREKRYGLGSLWPGSSLHTQFQFTPTHLGLQRLTVEVDCDMFQNLTGYRSVLVVAPEVSV |
| 6709 | sp|Q8HZK3|DUOX1\_PIG | MGFRLALAWTLLVGPWMPMGARNSISWEVQRFDGWYNNLMEHKWGSKGSRLQRLVPASYADGVYQPLGEPHLPNPRDLSNTAMRGPAGQASLRNRTVLGVFFGYHVLSDLVSIEKPGCPAEFLNIHIPPGDPVFDPHKSGDVVLPFQRSRWDPNTGQSPSNPRDLTNEVTGWLDGSAIYGSSHSWSDELRSFSGGQLASGPDPAFPRQAQDPLFMWTPPDPATGQRGPQGLYAFGAEQGNREPFLQALGLLWFRYHNLCAQKLAREHPLWGDEELFQHARKRVIATYQSITMYEWLPSFLRKMPQEYTGYRPFLDPSISPEFLAASEQFFSTMVPPGVYMRNASCHFQGVINRNSSVSRALRVCNSYWSREHPNLQRAEDVDALLLGMASQIAEREDHMVVEDVQDFWPGPLKFSRTDHLASCLQRGRDLGLPSYTKARARLGLPPVTRWQDINPALSRSDGIVLEATAALYNQDLSRLELLPGGLLESYGDPGPLFSTIVLDQFVRLRDGDRYWFENTKNGLFSEKEIAEIRNTSLRDVLVAVTNMTPGALQPNVFFWHAGDPCPQPRQLSTKDLPACAPLIMRDYFKGSGFGFGVTIGTLCCFPLVSLLSAWIVAQLRRRNFKRLQVQNRQSIMCEKLVGGMKALEWQGRKEPCRPVLVHLQSGQIHVMDGRLSVLRTIQLRPPQQVNLILSSNHGRRTLLLKIPKEYDLVLMFDLEEERQVMVENLQSALKESGLSFQEWELREQELMRAAVTREQRSHLLETFFRHLFSQVLDIDQADAGALPLDSSQKVREALTCELSRAEFAESLGLKPQDMFVESMFSLADKDGNGYLSFREFLDILVVFMKGSPEEKSRLMFRMYDFDGNGLISKDEFIRMLRSFIEISNNCLSKAQLTEVVESMFREAGFQDKQELTWEDFHFMLRDHDSELRFTQLCVKGVEVPEVIKDLCRRASYISQEKLCPSPRVSAHCPRSNVDVEVELTPWKLQCPTDTDPPQEIRRRFGKKVTSFQPLLFTEAHREKFQRSRRHQTVQQFKRFVENYRRHIGCLAVFYTIAGGLFLERAYYYAFAAHHMGITDTTRVGIILSRGTAASISFMFSYILLTMCRNLITFLRETFLNRYVPFDAAVDFHRLIASTAIILTVLHSAGHVVNVYLFSISPLSVLSCLFPGLFHDNGSEFPQKYYWWFFQTVPGLTGVMLLLILAIMYVFASHHFRRCSFRGFWLTHHLYILLYMLLIIHGSFALIQLPRFHIFFLVPALIYVGDKLVSLSRKKVEISVVKAELLPSGVTHLQFQRPQGFEYKSGQWVRIACLALGTTEYHPFTLTSAPHEDTLSLHIRAAGPWTTRLREIYSPPTDDNCAKYPKLYLDGPFGEGHQEWHKFEVSVLVGGGIGVTPFASILKDLVFKSSVSCQVFCKKIYFIWVTRTQRQFEWLADIIREVEENDHRDLVSVHIYITQLAEKFDLRTTMLYICERHFQKVLNRSLFTGLRSITHFGRPPFEPFFNSLQEVHPQVRKIGVFSCGPPGMTKNVEKACQLINRQDRTHFSHHYENF |
| 6710 | sp|O13146|EPHA3\_DANRE | MALFRIYSFLAPFHILVLCQALRNYPDNEVTLLDSMSAPGDLGWEAYPSEGWEEISVMDERNIPMRTYQVCNVMEANQNNWLRTGLIQREGAQRVYVEIKFTLRDCNSLPGVPGTCKETFNVYYHESNNAVAAPLRHIRESQYIKIDTIAADESFTQTDVGDRVMKLNTEVRDISGLSKRGLYLAFQDLGACIALVSVRVFYKRCPLAVLNLARFPDTVTGGDSALVEVRGTCVEDAEELEGPRMFCSADGGWLVPIGRCVCRPGFEEVDGHCQPCRSGFYKASAMDAYCVKCPPHSYSHQDKASECVCERGFYRAESDPRSMACTRPPSAPGNPISMVNETAVTLEWSPPRDSGGRGDVSYSVHCRKCSGETGASERCVPCGSGAHFNPRQFGLTHPRVLVTELQPHTNYTFSVEALNGVSDLSPSPRQLVSVNVTTSQTVSVILKERKGTDSVTLAWQGPEPVDGTVVEYEVTYYEKNQQDQNYTVLKTKSNSMTVDGLKPGTTYIFRVRARTDGGYGNYKGEIELETSHEDMLAVGDPNQQTILAISVAGGAVLLVLLVACFIVSGRRCGYIKAKQDPEEEKMQFQHGRVKLPETRTYIHPHTYEDPNQAVRDFAKEIEVSNIRIERVIGAGEFGEVCSGRLRLPSKREIQVAIKSLKAGYSEHQRRDFLSEASIMGQFDHPNIIRLEGVVTRCKPVMIVTEYMENGSLDTFLKKHDGQFTVIQLLGMLRGIAAGMQYLSEMNYVHRDLAARNILVNRNLVCKVSDFGLSRVLEDDPEAAYTTRGGKIPIRWTAPEAITYRKFTSASDVWSYGIVMWEVISYGERPYWEMSNQDVIKAVDEGYRLPAPMDCPVVLHQLMLDCWEKNRSDRPKFGQIVNTLDRLIRNPSSLKQLANSAVWEDPVTPEAAVNTVEDWLDLIKMGQYKEHFSSAGYVTLDSVLYVSSSELDKMGVELAGHQKKILSSIQCLQAHHGTQVQV |
| 6711 | sp|Q5JZY3|EPHAA\_HUMAN | METCAGPHPLRLFLCRMQLCLALLLGPWRPGTAEEVILLDSKASQAELGWTALPSNGWEEISGVDEHDRPIRTYQVCNVLEPNQDNWLQTGWISRGRGQRIFVELQFTLRDCSSIPGAAGTCKETFNVYYLETEADLGRGRPRLGGSRPRKIDTIAADESFTQGDLGERKMKLNTEVREIGPLSRRGFHLAFQDVGACVALVSVRVYYKQCRATVRGLATFPATAAESAFSTLVEVAGTCVAHSEGEPGSPPRMHCGADGEWLVPVGRCSCSAGFQERGDFCEACPPGFYKVSPRRPLCSPCPEHSRALENASTFCVCQDSYARSPTDPPSASCTRPPSAPRDLQYSLSRSPLVLRLRWLPPADSGGRSDVTYSLLCLRCGREGPAGACEPCGPRVAFLPRQAGLRERAATLLHLRPGARYTVRVAALNGVSGPAAAAGTTYAQVTVSTGPGAPWEEDEIRRDRVEPQSVSLSWREPIPAGAPGANDTEYEIRYYEKGQSEQTYSMVKTGAPTVTVTNLKPATRYVFQIRAASPGPSWEAQSFNPSIEVQTLGEAASGSRDQSPAIVVTVVTISALLVLGSVMSVLAIWRRPCSYGKGGGDAHDEEELYFHFKVPTRRTFLDPQSCGDLLQAVHLFAKELDAKSVTLERSLGGGRFGELCCGCLQLPGRQELLVAVHMLRDSASDSQRLGFLAEALTLGQFDHSHIVRLEGVVTRGSTLMIVTEYMSHGALDGFLRRHEGQLVAGQLMGLLPGLASAMKYLSEMGYVHRGLAARHVLVSSDLVCKISGFGRGPRDRSEAVYTTMSGRSPALWAAPETLQFGHFSSASDVWSFGIIMWEVMAFGERPYWDMSGQDVIKAVEDGFRLPPPRNCPNLLHRLMLDCWQKDPGERPRFSQIHSILSKMVQDPEPPKCALTTCPRPPTPLADRAFSTFPSFGSVGAWLEALDLCRYKDSFAAAGYGSLEAVAEMTAQDLVSLGISLAEHREALLSGISALQARVLQLQGQGVQV |
| 6712 | sp|Q9SV72|EPFL9\_ARATH | MKHEMMNIKPRCITIFFLLFALLLGNYVVQASRPRSIENTVSLLPQVHLLNSRRRHMIGSTAPTCTYNECRGCRYKCRAEQVPVEGNDPINSAYHYRCVCHR |
| 6713 | sp|P54849|EMP1\_HUMAN | MLVLLAGIFVVHIATVIMLFVSTIANVWLVSNTVDASVGLWKNCTNISCSDSLSYASEDALKTVQAFMILSIIFCVIALLVFVFQLFTMEKGNRFFLSGATTLVCWLCILVGVSIYTSHYANRDGTQYHHGYSYILGWICFCFSFIIGVLYLVLRKK |
| 6714 | sp|P25358|ELO2\_YEAST | MNSLVTQYAAPLFERYPQLHDYLPTLERPFFNISLWEHFDDVVTRVTNGRFVPSEFQFIAGELPLSTLPPVLYAITAYYVIIFGGRFLLSKSKPFKLNGLFQLHNLVLTSLSLTLLLLMVEQLVPIIVQHGLYFAICNIGAWTQPLVTLYYMNYIVKFIEFIDTFFLVLKHKKLTFLHTYHHGATALLCYTQLMGTTSISWVPISLNLGVHVVMYWYYFLAARGIRVWWKEWVTRFQIIQFVLDIGFIYFAVYQKAVHLYFPILPHCGDCVGSTTATFAGCAIISSYLVLFISFYINVYKRKGTKTSRVVKRAHGGVAAKVNEYVNVDLKNVPTPSPSPKPQHRRKR |
| 6715 | sp|P04582|ENV\_HV1B8 | MRVKEKYQHLWRWGWRWGTMLLGMLMICSATEKLWVTVYFGVPVWKEATTTLFCASDAKAYDTEVHNVWATHACVPTDPNPQEVVLVNVTENFNMWKNDMVEQMHEDIISLWDQSLKPCVKLTPLCVSLKCTDLKNDTNTNSSSGRMIMEKGEIKNCSFNISTSKRGKVQKEYAFFYKLDIIPIDNDTTSYTLTSCNTSVITQACPKVSFEPIPIHYCAPAGFAILKCNNKTFNGTGPCTNVSTVQCTHGIRPVVSTQLLLNGSLAEEEVVIRSVNFTDNAKTIIVQLDTSVEINCTRPNNNTRKKIRIQRGPGRAFVTIGKIGNMRQAHCNISRAKWNATLKQIDSKLREQFGNNKTIIFKQSSGGDPEIVTHSFNCGGEFFYCNSTQLFNSTWSTKGSNNTEGSDTITLPCRIKQIINMWQEVGKAMYAPPISGQIRCSSNITGLLLTRDGGNSNNESEIFRPGGGDMRDNWRSELYKYKVVKIEPLGVAPTKAKRRVVQREKRAVGIGALFLGFLGAAGSTMGAASMTLTVQARQLLSGIVQQQNNLLRAIEGQQHLLQLTVWGIKQLQARILAVERYLKDQQLLGIWGCSGKLICTTAVPWNASWSNKSLEQIWNNMTWMEWDREINNYTSLIHSLIEESQNQQEKNEQELLELDKWASLWNWFNITNWLWYIKLFIMIVGGLVGLRIVFAVLSIVNRVRQGYSPLSFQTHLPNPRGPDRPEGIEEEGGERDRDRSIRLVNGSLALIWDDLRSLCLFSYHRLRDLLLIVTRIVELLGRRGWEALKYWWNLLQYWSQELKNSAVNLLNATAIAVAEGTDRVIELVQAAYRAIRHIPRRIRQGLERILL |
| 6716 | sp|P04583|ENV\_HV1MA | MRVREIQRNYQNWWRWGMMLLGMLMTCSIAEDLWVTVYYGVPVWKEATTTLFCASDAKSYETEVHNIWATHACVPTDPNPQEIELENVTEGFNMWKNNMVEQMHEDIISLWDQSLKPCVKLTPLCVTLNCTNVNGTAVNGTNAGSNRTNAELKMEIGEVKNCSFNITPVGSDKRQEYATFYNLDLVQIDDSDNSSYRLINCNTSVITQACPKVTFDPIPIHYCAPAGFAILKCNDKKFNGTEICKNVSTVQCTHGIKPVVSTQLLLNGSLAEEEIMIRSENLTDNTKNIIVQLNETVTINCTRPGNNTRRGIHFGPGQALYTTGIVGDIRRAYCTINETEWDKTLQQVAVKLGSLLNKTKIIFNSSSGGDPEITTHSFNCRGEFFYCNTSKLFNSTWQNNGARLSNSTESTGSITLPCRIKQIINMWQKTGKAMYAPPIAGVINCLSNITGLILTRDGGNSSDNSDNETLRPGGGDMRDNWISELYKYKVVRIEPLGVAPTKAKRRVVEREKRAIGLGAMFLGFLGAAGSTMGAASLTLTVQARQLLSGIVQQQNNLLRAIEAQQHLLQLTVWGIKQLQARVLAVERYLQDQRLLGMWGCSGKHICTTFVPWNSSWSNRSLDDIWNNMTWMQWEKEISNYTGIIYNLIEESQIQQEKNEKELLELDKWASLWNWFSISKWLWYIRIFIIVVGGLIGLRIIFAVLSLVNRVRQGYSPLSLQTLLPTPRGPPDRPEGIEEEGGEQGRGRSIRLVNGFSALIWDDLRNLCLFSYHRLRDLLLIATRIVELLGRRGWEALKYLWNLLQYWGQELKNSAISLLNTTAIAVAECTDRVIEIGQRFGRAILHIPRRIRQGFERALL |
| 6717 | sp|P31819|ENV\_HV1KB | MRVKEIRKNYQHLWRWGIMLRWGTMLLGMLMICSAAEQLWVTVYYGVPVWKEATTTLFCASDAKAYDTEAHNVWATHACVPTDPNPQEVVLVNVTENFNMWKNNMVEQMHENIISLWDQSLKPCVKLTPLCVTLHCTDLRNTTNNNSSIEEKMKGEIKNCSFNVTTNIRDKVQKEYALFYKLDVVPIDNDNNSTNTCYRLISCDTSVITQACPKVSFEPIPIHYCTPAGFALLKCNNKTFNGTGPCKNVSTVQCTHGIRPVVSTQLLLNGSLAEEGVVIRSENFTDNVKTIIVQLNETVKINCIRPNNKTRKRVTMGPGRVYYTTGEIIGDIRQAHCNISRAEWNKTLEQIANKLRKQFENKTIVFNQSSGGDPEIVMHNFNCGGEFFYCDSSQLFNSTHLSNGTWWNGTGPENITLPCRIKQIVNMWQEVGKAMYAPPIRGQIRCSSNITGLLLTRDGGNTQNNNTNSSIEIFRPGGGDMRDNWRSELYKYKVVKIEPLGVAPTRAKRRVVQREKRAVGIGAVFLGFLGAAGSTMGAAAVTLTVQARQLLPGIVQQQNNLLRAIDAQQHLLQLTVWGIKQLQARVLAVERYLKDQQLMGIWGCSGKFICTTAVPWNTSWSNKSFNEIWDNMTWMEWEREINNYTNLIYNLIEESQNQQEKNEQDLLALDKWDSLWNWFSITKWLWYIKIFIMIVGGLVGLRIVFTVLSIVNRVRQGYSPLSFQTRLPARGPDRPEGIEEEGGERDRDRSGPLVDGLLALIWVDLRSLCLFSYHRLRDLLLIVTRTVELLGRKGWEVLKYLWNLLQYWSQELKNSAVSLLNATAIAVAEGTDRVIEILQRTYRAILHIPVKIRQGLERALL |
| 6718 | sp|Q14152|EIF3A\_HUMAN | MPAYFQRPENALKRANEFLEVGKKQPALDVLYDVMKSKKHRTWQKIHEPIMLKYLELCVDLRKSHLAKEGLYQYKNICQQVNIKSLEDVVRAYLKMAEEKTEAAKEESQQMVLDIEDLDNIQTPESVLLSAVSGEDTQDRTDRLLLTPWVKFLWESYRQCLDLLRNNSRVERLYHDIAQQAFKFCLQYTRKAEFRKLCDNLRMHLSQIQRHHNQSTAINLNNPESQSMHLETRLVQLDSAISMELWQEAFKAVEDIHGLFSLSKKPPKPQLMANYYNKVSTVFWKSGNALFHASTLHRLYHLSREMRKNLTQDEMQRMSTRVLLATLSIPITPERTDIARLLDMDGIIVEKQRRLATLLGLQAPPTRIGLINDMVRFNVLQYVVPEVKDLYNWLEVEFNPLKLCERVTKVLNWVREQPEKEPELQQYVPQLQNNTILRLLQQVSQIYQSIEFSRLTSLVPFVDAFQLERAIVDAARHCDLQVRIDHTSRTLSFGSDLNYATREDAPIGPHLQSMPSEQIRNQLTAMSSVLAKALEVIKPAHILQEKEEQHQLAVTAYLKNSRKEHQRILARRQTIEERKERLESLNIQREKEELEQREAELQKVRKAEEERLRQEAKEREKERILQEHEQIKKKTVRERLEQIKKTELGAKAFKDIDIEDLEELDPDFIMAKQVEQLEKEKKELQERLKNQEKKIDYFERAKRLEEIPLIKSAYEEQRIKDMDLWEQQEEERITTMQLEREKALEHKNRMSRMLEDRDLFVMRLKAARQSVYEEKLKQFEERLAEERHNRLEERKRQRKEERRITYYREKEEEEQRRAEEQMLKEREERERAERAKREEELREYQERVKKLEEVERKKRQRELEIEERERRREEERRLGDSSLSRKDSRWGDRDSEGTWRKGPEADSEWRRGPPEKEWRRGEGRDEDRSHRRDEERPRRLGDDEDREPSLRPDDDRVPRRGMDDDRGPRRGPEEDRFSRRGADDDRPSWRNTDDDRPPRRIADEDRGNWRHADDDRPPRRGLDEDRGSWRTADEDRGPRRGMDDDRGPRRGGADDERSSWRNADDDRGPRRGLDDDRGPRRGMDDDRGPRRGMDDDRGPRRGMDDDRGPRRGLDDDRGPWRNADDDRIPRRGAEDDRGPWRNMDDDRLSRRADDDRFPRRGDDSRPGPWRPLVKPGGWREKEKAREESWGPPRESRPSEEREWDREKERDRDNQDREENDKDPERERDRERDVDREDRFRRPRDEGGWRRGPAEESSSWRDSSRRDDRDRDDRRRERDDRRDLRERRDLRDDRDRRGPPLRSEREEVSSWRRADDRKDDRVEERDPPRRVPPPALSRDRERDRDREREGEKEKASWRAEKDRESLRRTKNETDEDGWTTVRR |
| 6719 | sp|Q6NXG1|ESRP1\_HUMAN | MTASPDYLVVLFGITAGATGAKLGSDEKELILLFWKVVDLANKKVGQLHEVLVRPDQLELTEDCKEETKIDVESLSSASQLDQALRQFNQSVSNELNIGVGTSFCLCTDGQLHVRQILHPEASKKNVLLPECFYSFFDLRKEFKKCCPGSPDIDKLDVATMTEYLNFEKSSSVSRYGASQVEDMGNIILAMISEPYNHRFSDPERVNYKFESGTCSKMELIDDNTVVRARGLPWQSSDQDIARFFKGLNIAKGGAALCLNAQGRRNGEALVRFVSEEHRDLALQRHKHHMGTRYIEVYKATGEDFLKIAGGTSNEVAQFLSKENQVIVRMRGLPFTATAEEVVAFFGQHCPITGGKEGILFVTYPDGRPTGDAFVLFACEEYAQNALRKHKDLLGKRYIELFRSTAAEVQQVLNRFSSAPLIPLPTPPIIPVLPQQFVPPTNVRDCIRLRGLPYAATIEDILDFLGEFATDIRTHGVHMVLNHQGRPSGDAFIQMKSADRAFMAAQKCHKKNMKDRYVEVFQCSAEEMNFVLMGGTLNRNGLSPPPCKLPCLSPPSYTFPAPAAVIPTEAAIYQPSVILNPRALQPSTAYYPAGTQLFMNYTAYYPSPPGSPNSLGYFPTAANLSGVPPQPGTVVRMQGLAYNTGVKEILNFFQGYQYATEDGLIHTNDQARTLPKEWVCI |
| 6720 | sp|P03951|FA11\_HUMAN | MIFLYQVVHFILFTSVSGECVTQLLKDTCFEGGDITTVFTPSAKYCQVVCTYHPRCLLFTFTAESPSEDPTRWFTCVLKDSVTETLPRVNRTAAISGYSFKQCSHQISACNKDIYVDLDMKGINYNSSVAKSAQECQERCTDDVHCHFFTYATRQFPSLEHRNICLLKHTQTGTPTRITKLDKVVSGFSLKSCALSNLACIRDIFPNTVFADSNIDSVMAPDAFVCGRICTHHPGCLFFTFFSQEWPKESQRNLCLLKTSESGLPSTRIKKSKALSGFSLQSCRHSIPVFCHSSFYHDTDFLGEELDIVAAKSHEACQKLCTNAVRCQFFTYTPAQASCNEGKGKCYLKLSSNGSPTKILHGRGGISGYTLRLCKMDNECTTKIKPRIVGGTASVRGEWPWQVTLHTTSPTQRHLCGGSIIGNQWILTAAHCFYGVESPKILRVYSGILNQSEIKEDTSFFGVQEIIIHDQYKMAESGYDIALLKLETTVNYTDSQRPICLPSKGDRNVIYTDCWVTGWGYRKLRDKIQNTLQKAKIPLVTNEECQKRYRGHKITHKMICAGYREGGKDACKGDSGGPLSCKHNEVWHLVGITSWGEGCAQRERPGVYTNVVEYVDWILEKTQAV |
| 6721 | sp|O75355|ENTP3\_HUMAN | MFTVLTRQPCEQAGLKALYRTPTIIALVVLLVSIVVLVSITVIQIHKQEVLPPGLKYGIVLDAGSSRTTVYVYQWPAEKENNTGVVSQTFKCSVKGSGISSYGNNPQDVPRAFEECMQKVKGQVPSHLHGSTPIHLGATAGMRLLRLQNETAANEVLESIQSYFKSQPFDFRGAQIISGQEEGVYGWITANYLMGNFLEKNLWHMWVHPHGVETTGALDLGGASTQISFVAGEKMDLNTSDIMQVSLYGYVYTLYTHSFQCYGRNEAEKKFLAMLLQNSPTKNHLTNPCYPRDYSISFTMGHVFDSLCTVDQRPESYNPNDVITFEGTGDPSLCKEKVASIFDFKACHDQETCSFDGVYQPKIKGPFVAFAGFYYTASALNLSGSFSLDTFNSSTWNFCSQNWSQLPLLLPKFDEVYARSYCFSANYIYHLFVNGYKFTEETWPQIHFEKEVGNSSIAWSLGYMLSLTNQIPAESPLIRLPIEPPVFVGTLAFFTAAALLCLAFLAYLCSATRRKRHSEHAFDHAVDSD |
| 6722 | sp|Q96CS3|FAF2\_HUMAN | MAAPEERDLTQEQTEKLLQFQDLTGIESMDQCRHTLEQHNWNIEAAVQDRLNEQEGVPSVFNPPPSRPLQVNTADHRIYSYVVSRPQPRGLLGWGYYLIMLPFRFTYYTILDIFRFALRFIRPDPRSRVTDPVGDIVSFMHSFEEKYGRAHPVFYQGTYSQALNDAKRELRFLLVYLHGDDHQDSDEFCRNTLCAPEVISLINTRMLFWACSTNKPEGYRVSQALRENTYPFLAMIMLKDRRMTVVGRLEGLIQPDDLINQLTFIMDANQTYLVSERLEREERNQTQVLRQQQDEAYLASLRADQEKERKKREERERKRRKEEEVQQQKLAEERRRQNLQEEKERKLECLPPEPSPDDPESVKIIFKLPNDSRVERRFHFSQSLTVIHDFLFSLKESPEKFQIEANFPRRVLPCIPSEEWPNPPTLQEAGLSHTEVLFVQDLTDE |
| 6723 | sp|Q6UWV6|ENPP7\_HUMAN | MRGLAVLLTVALATLLAPGAGAPVQSQGSQNKLLLVSFDGFRWNYDQDVDTPNLDAMARDGVKARYMTPAFVTMTSPCHFTLVTGKYIENHGVVHNMYYNTTSKVKLPYHATLGIQRWWDNGSVPIWITAQRQGLRAGSFFYPGGNVTYQGVAVTRSRKEGIAHNYKNETEWRANIDTVMAWFTEEDLDLVTLYFGEPDSTGHRYGPESPERREMVRQVDRTVGYLRESIARNHLTDRLNLIITSDHGMTTVDKRAGDLVEFHKFPNFTFRDIEFELLDYGPNGMLLPKEGRLEKVYDALKDAHPKLHVYKKEAFPEAFHYANNPRVTPLLMYSDLGYVIHGRINVQFNNGEHGFDNKDMDMKTIFRAVGPSFRAGLEVEPFESVHVYELMCRLLGIVPEANDGHLATLLPMLHTESALPPDGRPTLLPKGRSALPPSSRPLLVMGLLGTVILLSEVA |
| 6724 | sp|P11475|ERR2\_RAT | MSSEDRHLGSSCGSFIKTEPSSPSSGIDALSHHSPSGSSDASGGFGMALGTHANGLDSPPMFAGAGLGGNPCRKSYEDCTSGIMEDSAIKCEYMLNAIPKRLCLVCGDIASGYHYGVASCEACKAFFKRTIQGNIEYSCPATNECEITKRRRKSCQACRFMKCLKVGMLKEGVRLDRVRGGRQKYKRRLDSENSPYLSLQISPPAKKPLTKIVSYLLVAEPDKLYAMPPDDVPEGDIKALTTLCDLADRELVFLISWAKHIPGFSNLTLGDQMSLLQSAWMEILILGIVYRSLPYDDKLAYAEDYIMDEEHSRLVGLLELYRAILQLVRRYKKLKVEKEEFVMLKALALANSDSMYIENLEAVQKLQDLLHEALQDYELSQRHEEPRRAGKLLLTLPLLRQTAAKAVQHFYSVKLQGKVPMHKLFLEMLEAKV |
| 6725 | sp|P00451|FA8\_HUMAN | MQIELSTCFFLCLLRFCFSATRRYYLGAVELSWDYMQSDLGELPVDARFPPRVPKSFPFNTSVVYKKTLFVEFTDHLFNIAKPRPPWMGLLGPTIQAEVYDTVVITLKNMASHPVSLHAVGVSYWKASEGAEYDDQTSQREKEDDKVFPGGSHTYVWQVLKENGPMASDPLCLTYSYLSHVDLVKDLNSGLIGALLVCREGSLAKEKTQTLHKFILLFAVFDEGKSWHSETKNSLMQDRDAASARAWPKMHTVNGYVNRSLPGLIGCHRKSVYWHVIGMGTTPEVHSIFLEGHTFLVRNHRQASLEISPITFLTAQTLLMDLGQFLLFCHISSHQHDGMEAYVKVDSCPEEPQLRMKNNEEAEDYDDDLTDSEMDVVRFDDDNSPSFIQIRSVAKKHPKTWVHYIAAEEEDWDYAPLVLAPDDRSYKSQYLNNGPQRIGRKYKKVRFMAYTDETFKTREAIQHESGILGPLLYGEVGDTLLIIFKNQASRPYNIYPHGITDVRPLYSRRLPKGVKHLKDFPILPGEIFKYKWTVTVEDGPTKSDPRCLTRYYSSFVNMERDLASGLIGPLLICYKESVDQRGNQIMSDKRNVILFSVFDENRSWYLTENIQRFLPNPAGVQLEDPEFQASNIMHSINGYVFDSLQLSVCLHEVAYWYILSIGAQTDFLSVFFSGYTFKHKMVYEDTLTLFPFSGETVFMSMENPGLWILGCHNSDFRNRGMTALLKVSSCDKNTGDYYEDSYEDISAYLLSKNNAIEPRSFSQNSRHPSTRQKQFNATTIPENDIEKTDPWFAHRTPMPKIQNVSSSDLLMLLRQSPTPHGLSLSDLQEAKYETFSDDPSPGAIDSNNSLSEMTHFRPQLHHSGDMVFTPESGLQLRLNEKLGTTAATELKKLDFKVSSTSNNLISTIPSDNLAAGTDNTSSLGPPSMPVHYDSQLDTTLFGKKSSPLTESGGPLSLSEENNDSKLLESGLMNSQESSWGKNVSSTESGRLFKGKRAHGPALLTKDNALFKVSISLLKTNKTSNNSATNRKTHIDGPSLLIENSPSVWQNILESDTEFKKVTPLIHDRMLMDKNATALRLNHMSNKTTSSKNMEMVQQKKEGPIPPDAQNPDMSFFKMLFLPESARWIQRTHGKNSLNSGQGPSPKQLVSLGPEKSVEGQNFLSEKNKVVVGKGEFTKDVGLKEMVFPSSRNLFLTNLDNLHENNTHNQEKKIQEEIEKKETLIQENVVLPQIHTVTGTKNFMKNLFLLSTRQNVEGSYDGAYAPVLQDFRSLNDSTNRTKKHTAHFSKKGEEENLEGLGNQTKQIVEKYACTTRISPNTSQQNFVTQRSKRALKQFRLPLEETELEKRIIVDDTSTQWSKNMKHLTPSTLTQIDYNEKEKGAITQSPLSDCLTRSHSIPQANRSPLPIAKVSSFPSIRPIYLTRVLFQDNSSHLPAASYRKKDSGVQESSHFLQGAKKNNLSLAILTLEMTGDQREVGSLGTSATNSVTYKKVENTVLPKPDLPKTSGKVELLPKVHIYQKDLFPTETSNGSPGHLDLVEGSLLQGTEGAIKWNEANRPGKVPFLRVATESSAKTPSKLLDPLAWDNHYGTQIPKEEWKSQEKSPEKTAFKKKDTILSLNACESNHAIAAINEGQNKPEIEVTWAKQGRTERLCSQNPPVLKRHQREITRTTLQSDQEEIDYDDTISVEMKKEDFDIYDEDENQSPRSFQKKTRHYFIAAVERLWDYGMSSSPHVLRNRAQSGSVPQFKKVVFQEFTDGSFTQPLYRGELNEHLGLLGPYIRAEVEDNIMVTFRNQASRPYSFYSSLISYEEDQRQGAEPRKNFVKPNETKTYFWKVQHHMAPTKDEFDCKAWAYFSDVDLEKDVHSGLIGPLLVCHTNTLNPAHGRQVTVQEFALFFTIFDETKSWYFTENMERNCRAPCNIQMEDPTFKENYRFHAINGYIMDTLPGLVMAQDQRIRWYLLSMGSNENIHSIHFSGHVFTVRKKEEYKMALYNLYPGVFETVEMLPSKAGIWRVECLIGEHLHAGMSTLFLVYSNKCQTPLGMASGHIRDFQITASGQYGQWAPKLARLHYSGSINAWSTKEPFSWIKVDLLAPMIIHGIKTQGARQKFSSLYISQFIIMYSLDGKKWQTYRGNSTGTLMVFFGNVDSSGIKHNIFNPPIIARYIRLHPTHYSIRSTLRMELMGCDLNSCSMPLGMESKAISDAQITASSYFTNMFATWSPSKARLHLQGRSNAWRPQVNNPKEWLQVDFQKTMKVTGVTTQGVKSLLTSMYVKEFLISSSQDGHQWTLFFQNGKVKVFQGNQDSFTPVVNSLDPPLLTRYLRIHPQSWVHQIALRMEVLGCEAQDLY |
| 6726 | sp|Q7XJJ7|FAAH\_ARATH | MGKYQVMKRASEVDLSTVKYKAETMKAPHLTGLSFKLFVNLLEAPLIGSLIVDYLKKDNGMTKIFRNTVIPEEPMFRPEFPSQEPEHDVVIVGEDESPIDRLETALKCLPQYDPSRSLHADPVSSFRYWKIRDYAYAYRSKLTTPLQVAKRIISIIEEFGYDKPPTPFLIRFDANEVIKQAEASTRRFEQGNPISVLDGIFVTIKDDIDCLPHPTNGGTTWLHEDRSVEKDSAVVSKLRSCGAILLGKANMHELGMGTTGNNSNYGTTRNPHDPKRYTGGSSSGSAAIVAAGLCSAALGTDGGGSVRIPSALCGITGLKTTYGRTDMTGSLCEGGTVEIIGPLASSLEDAFLVYAAILGSSSADRYNLKPSPPCFPKLLSHNGSNAIGSLRLGKYTKWFNDVSSSDISDKCEDILKLLSNNHGCKVVEIVVPELEEMRAAHVISIGSPTLSSLTPYCEAGKNSKLSYDTRTSFAIFRSFSASDYIAAQCLRRRLMEYHLNIFKDVDVIVTPTTGMTAPVIPPDALKNGETNIQVTTDLMRFVLAANLLGFPAISVPVGYDKEGLPIGLQIMGRPWAEATVLGLAAAVEELAPVTKKPAIFYDILNTN |
| 6727 | sp|Q9H5Z6|F124B\_HUMAN | MDETQGPLAMTVHLLANSGHGSLLQRTLDQLLDCICPEVRLFQVSERASPVKYCEKSHSKRSRFPGMSVLLFLHESPGEDRLFRVLDSLQHSPWQCYPTQDTRGRLCPYFFANQEFYSLDSQLPIWGVRQVHCGSEILRVTLYCSFDNYEDAIRLYEMILQREATLQKSNFCFFVLYASKSFALQLSLKQLPPGMSVDPKESSVLQFKVQEIGQLVPLLPNPCMPISSTRWQTQDYDGNKILLQVQLNPELGVKNGILGAGMLPLGSRLTSVSAKRTSEPRSQRNQGKRSQGHSLELPEPSGSPTSDRCAGTSWKSPGRSFQVSSPAMGAHLHLSSHHLESGARMKVLNRENSFQKLEAETNVDTGLTIINSEPRQTYFGGFPRDLQTSQPPFCLPASSLGVATSKNNSVLKERVSPLPLAGQRDLGTRKTISECLLHLQVQGEEKEEDEEEFFI |
| 6728 | sp|P06602|EVE\_DROME | MHGYRTYNMESHHAHHDASPVDQKPLVVDLLATQYGKPQTPPPSPNECLSSPDNSLNGSRGSEIPADPSVRRYRTAFTRDQLGRLEKEFYKENYVSRPRRCELAAQLNLPESTIKVWFQNRRMKDKRQRIAVAWPYAAVYSDPAFAASILQAAANSVGMPYPPYAPAAAAAAAAAAAVATNPMMATGMPPMGMPQMPTMQMPGHSGHAGHPSPYGQYRYTPYHIPARPAPPHPAGPHMHHPHMMGSSATGSSYSAGAAGLLGALPSATCYTGLGVGVPKTQTPPLDLQSSSSPHSSTLSLSPVGSDHAKVFDRSPVAQSAPSVPAPAPLTTTSPLPAPGLLMPSAKRPASDMSPPPTTTVIAEPKPKLFKPYKTEA |
| 6729 | sp|P13804|ETFA\_HUMAN | MFRAAAPGQLRRAASLLRFQSTLVIAEHANDSLAPITLNTITAATRLGGEVSCLVAGTKCDKVAQDLCKVAGIAKVLVAQHDVYKGLLPEELTPLILATQKQFNYTHICAGASAFGKNLLPRVAAKLEVAPISDIIAIKSPDTFVRTIYAGNALCTVKCDEKVKVFSVRGTSFDAAATSGGSASSEKASSTSPVEISEWLDQKLTKSDRPELTGAKVVVSGGRGLKSGENFKLLYDLADQLHAAVGASRAAVDAGFVPNDMQVGQTGKIVAPELYIAVGISGAIQHLAGMKDSKTIVAINKDPEAPIFQVADYGIVADLFKVVPEMTEILKKK |
| 6730 | sp|O13437|FDH\_CANBO | MKIVLVLYDAGKHAADEEKLYGCTENKLGIANWLKDQGHELITTSDKEGETSELDKHIPDADIIITTPFHPAYITKERLDKAKNLKLVVVAGVGSDHIDLDYINQTGKKISVLEVTGSNVVSVAEHVVMTMLVLVRNFVPAHEQIINHDWEVAAIAKDAYDIEGKTIATIGAGRIGYRVLERLLPFNPKELLYYDYQALPKEAEEKVGARRVENIEELVAQADIVTVNAPLHAGTKGLINKELLSKFKKGAWLVNTARGAICVAEDVAAALESGQLRGYGGDVWFPQPAPKDHPWRDMRNKYGAGNAMTPHYSGTTLDAQTRYAEGTKNILESFFTGKFDYRPQDIILLNGEYVTKAYGKHDKK |
| 6731 | sp|Q9NQT4|EXOS5\_HUMAN | MEEETHTDAKIRAENGTGSSPRGPGCSLRHFACEQNLLSRPDGSASFLQGDTSVLAGVYGPAEVKVSKEIFNKATLEVILRPKIGLPGVAEKSRERLIRNTCEAVVLGTLHPRTSITVVLQVVSDAGSLLACCLNAACMALVDAGVPMRALFCGVACALDSDGTLVLDPTSKQEKEARAVLTFALDSVERKLLMSSTKGLYSDTELQQCLAAAQAASQHVFRFYRESLQRRYSKS |
| 6732 | sp|F8VPZ5|ERCC6\_MOUSE | MFHEEVPNSTHPQEQDCLPSQHANAYKDMPVGQENGGVSEAGECLSSTSCEYGPSTSAEACVLAATRRGPTLLHIDRHQIPAVEPSAQALELQGLGVDVYDQAVLEQGVLQQVDSAMHEASCVAQLADAEKEYQSVLDDLMSCTTSLRQINKIIEQLSPQAASNRDINRKLDSVKRQKYNKEQQLKKITAKQKRLQAILGGAGVQVELDHASLEEDDAEPGPSCLGSMLMPAQETAWEELIRTGQMTPFGTPAPQKQEKKPRKIMLNEASGFEKYLAEQAQLSFERKKQAATKRTAKKAIVISESSRAAIETKADQRSQVLSQTDKRLKKHSRKLQRRALQFQGKVGLPSGKKPLEPEVRPEAEGDTEGEESGSSPTDGEEEEEQEEEEGVASLSSDDVSYELKPLRKRQKYQKKVPVQEIDDDFFPSSEEEDEAMEGRGGGRKVARRQDDGDEDYYKQRLRRWNRLRLQDKEKRLKLEDDSEESDAEFDEGFKVPGFLFKKLFKYQQTGVRWLWELHCQQAGGILGDEMGLGKTIQIIAFLAGLSYSKIRTRGSNYRFEGLGPTIIVCPTTVMHQWVKEFHTWWPPFRVAVLHETGSYTHKKERLIRDIVYCHGVLITSYSYIRLMQDDISRHDWHYVILDEGHKIRNPNAAVTLACKQFRTPHRIILSGSPMQNNLRELWSLFDFIFPGKLGTLPVFMEQFSVPITMGGYSNASPVQVKTAYKCACVLRDTINPYLLRRMKSDVKMSLSLPDKNEQVLFCRLTDEQHKVYQNFIDSKAVYRILNGENQIFSGLVALRKICNHPDLFSGGPKNASGPPEDELEEEQFGHWRRSGKMIVVESLLKIWHRQGQRVLLFSQSRQMLHILEVFLRAHKYSYLKMDGTTTIASRQPLITKYNEDTSIFVFLLTTRVGGLGVNLTGANRVIIYDPDWNPSTDTQARERAWRIGQKKQVTVYRLLTAGTIEEKIYHRQIFKQFLTNRVLKDPKQRRFFKSNDLYELFTLTSPDASQGTETSAIFAGTGSSIQTPKCQLKKRTSTVLGTDPKCKKPPVSDTPANAATLIGEKPKAAGATGRSVTSGESGPFKGDHDTNGNRASSVAFGEETDAGSTLEHLSVMSGDGKHSDSPTVDHTSRPPVEASTSEKQGSSYAGARCQAQTEPVPMSEQMEGQFSKYKSKRKHDASEEETTEKRPQPKQKAKNSKHCRDAKFEGTRVPHLVKKRRYRQQTSEQEGGAKDRSSDDYVLEKLFKKSVGVHSVVRHDAIIDGSSPDYVLVEAEANRVAQDALKALRLSRQQCLGAASGVPTWTGHRGISGAPTGVKNRFGQKRDSSLPVQHPSSLTEKTQNNMKKEGKAHTPEHFSGKEDGASVSGAPSSSSLLARMRARNHMILPERLESDSEHLAEAAAVPPCGTEHDDLLVDMRNFIAFQAQVDGQASTQEILQEFESKLSVAQSCVFRELLRNLCNFHRTPGGEGIWKLKPEYC |
| 6733 | sp|P14921|ETS1\_HUMAN | MKAAVDLKPTLTIIKTEKVDLELFPSPDMECADVPLLTPSSKEMMSQALKATFSGFTKEQQRLGIPKDPRQWTETHVRDWVMWAVNEFSLKGVDFQKFCMNGAALCALGKDCFLELAPDFVGDILWEHLEILQKEDVKPYQVNGVNPAYPESRYTSDYFISYGIEHAQCVPPSEFSEPSFITESYQTLHPISSEELLSLKYENDYPSVILRDPLQTDTLQNDYFAIKQEVVTPDNMCMGRTSRGKLGGQDSFESIESYDSCDRLTQSWSSQSSFNSLQRVPSYDSFDSEDYPAALPNHKPKGTFKDYVRDRADLNKDKPVIPAAALAGYTGSGPIQLWQFLLELLTDKSCQSFISWTGDGWEFKLSDPDEVARRWGKRKNKPKMNYEKLSRGLRYYYDKNIIHKTAGKRYVYRFVCDLQSLLGYTPEELHAMLDVKPDADE |
| 6734 | sp|Q9MB58|F26\_ARATH | MGSGASKNTEEDDDGSNGGGGQLYVSLKMENSKVEGELTPHVYGSLPLIGSWDPSKALPMQRESALMSELSFVVPPDHETLDFKFLLKPKNRNTPCIVEEGENRLLTGGSLQGDARLALFRLEGDVIVEFRVFINADRVSPIDLATSWRAYRENLQPSTVRGIPDVSINPDPKSAECPLESLELDLAHYEVPAPAPSANSYLVYAADNAENPRSLSASGSFRNDSTPKAAQRNSEDSGVTVDGSPSAKEMTIVVPDSSNIYSAFGEAESKSVETLSPFQQKDGQKGLFVDRGVGSPRLVKSLSASSFLIDTKQIKNSMPAAAGAVAAAAVADQMLGPKEDRHLAIVLVGLPARGKTFTAAKLTRYLRWLGHDTKHFNVGKYRRLKHGVNMSADFFRADNPEGVEARTEVAALAMEDMIAWMQEGGQVGIFDATNSTRVRRNMLMKMAEGKCKIIFLETLCNDERIIERNIRLKIQQSPDYSEEMDFEAGVRDFRDRLANYEKVYEPVEEGSYIKMIDMVSGNGGQIQVNNISGYLPGRIVFFLVNTHLTPRPILLTRHGESMDNVRGRIGGDSVISDSGKLYAKKLASFVEKRLKSEKAASIWTSTLQRTNLTASSIVGFPKVQWRALDEINAGVCDGMTYEEVKKNMPEEYESRKKDKLRYRYPRGESYLDVIQRLEPVIIELERQRAPVVVISHQAVLRALYAYFADRPLKEIPQIEMPLHTIIEIQMGVSGVQEKRYKLMD |
| 6735 | sp|P00488|F13A\_HUMAN | MSETSRTAFGGRRAVPPNNSNAAEDDLPTVELQGVVPRGVNLQEFLNVTSVHLFKERWDTNKVDHHTDKYENNKLIVRRGQSFYVQIDFSRPYDPRRDLFRVEYVIGRYPQENKGTYIPVPIVSELQSGKWGAKIVMREDRSVRLSIQSSPKCIVGKFRMYVAVWTPYGVLRTSRNPETDTYILFNPWCEDDAVYLDNEKEREEYVLNDIGVIFYGEVNDIKTRSWSYGQFEDGILDTCLYVMDRAQMDLSGRGNPIKVSRVGSAMVNAKDDEGVLVGSWDNIYAYGVPPSAWTGSVDILLEYRSSENPVRYGQCWVFAGVFNTFLRCLGIPARIVTNYFSAHDNDANLQMDIFLEEDGNVNSKLTKDSVWNYHCWNEAWMTRPDLPVGFGGWQAVDSTPQENSDGMYRCGPASVQAIKHGHVCFQFDAPFVFAEVNSDLIYITAKKDGTHVVENVDATHIGKLIVTKQIGGDGMMDITDTYKFQEGQEEERLALETALMYGAKKPLNTEGVMKSRSNVDMDFEVENAVLGKDFKLSITFRNNSHNRYTITAYLSANITFYTGVPKAEFKKETFDVTLEPLSFKKEAVLIQAGEYMGQLLEQASLHFFVTARINETRDVLAKQKSTVLTIPEIIIKVRGTQVVGSDMTVTVQFTNPLKETLRNVWVHLDGPGVTRPMKKMFREIRPNSTVQWEEVCRPWVSGHRKLIASMSSDSLRHVYGELDVQIQRRPSM |
| 6736 | sp|O14843|FFAR3\_HUMAN | MDTGPDQSYFSGNHWFVFSVYLLTFLVGLPLNLLALVVFVGKLQRRPVAVDVLLLNLTASDLLLLLFLPFRMVEAANGMHWPLPFILCPLSGFIFFTTIYLTALFLAAVSIERFLSVAHPLWYKTRPRLGQAGLVSVACWLLASAHCSVVYVIEFSGDISHSQGTNGTCYLEFRKDQLAILLPVRLEMAVVLFVVPLIITSYCYSRLVWILGRGGSHRRQRRVAGLLAATLLNFLVCFGPYNVSHVVGYICGESPAWRIYVTLLSTLNSCVDPFVYYFSSSGFQADFHELLRRLCGLWGQWQQESSMELKEQKGGEEQRADRPAERKTSEHSQGCGTGGQVACAES |
| 6737 | sp|P15328|FOLR1\_HUMAN | MAQRMTTQLLLLLVWVAVVGEAQTRIAWARTELLNVCMNAKHHKEKPGPEDKLHEQCRPWRKNACCSTNTSQEAHKDVSYLYRFNWNHCGEMAPACKRHFIQDTCLYECSPNLGPWIQQVDQSWRKERVLNVPLCKEDCEQWWEDCRTSYTCKSNWHKGWNWTSGFNKCAVGAACQPFHFYFPTPTVLCNEIWTHSYKVSNYSRGSGRCIQMWFDPAQGNPNEEVARFYAAAMSGAGPWAAWPFLLSLALMLLWLLS |
| 6738 | sp|Q14512|FGFP1\_HUMAN | MKICSLTLLSFLLLAAQVLLVEGKKKVKNGLHSKVVSEQKDTLGNTQIKQKSRPGNKGKFVTKDQANCRWAATEQEEGISLKVECTQLDHEFSCVFAGNPTSCLKLKDERVYWKQVARNLRSQKDICRYSKTAVKTRVCRKDFPESSLKLVSSTLFGNTKPRKEKTEMSPREHIKGKETTPSSLAVTQTMATKAPECVEDPDMANQRKTALEFCGETWSSLCTFFLSIVQDTSC |
| 6739 | sp|P70627|FOLH1\_RAT | MWNAQQDSDSAEALGRRQRWFCAGTLVLAFTGTFIIGFLFGWFIKPSNDSTSSVSYPGMKKAFLQELKAENIKKFLYNFTRTPHLAGTQHNFELAKQIHAQWKEFGLDLVELSDYDVLLSYPNKTHPNYISIINEDGNEIFKTSLAELSPPGYENISDVVPPYSAFSPQGTPEGDLVYVNYARTEDFFKLERVMKINCSGKIVIARYGQVFRGNKVKNAQLAGAKGIILYSDPADYFVPGVKSYPDGWNLPGGGVQRGNVLNLNGAGDPLTPGYPANEYAYRHEFTEAVGLPSIPVHPIGYDDAQKLLEHMGGSAPPDSSWKGGLKVPYNVGPGFAGNFSKQKVKLHIHSYNKVTRIYNVIGTLKGAVEPDRYVILGGHRDAWVFGGIDPQSGAAVVHEIVRTFGTLKKKGWRPRRTILFASWDAEEFGLLGSTEWAEEHSRLLQERGVAYINADSSIEGNYTLRVDCTPLMHSLVYNLTKELPSPDEGFEGKSLYDSWKEKSPSTEFIGMPRISKLGSGNDFEVFFQRLGIASGRARYTKNWKNNKVSSYPLYHSVYETYELVEKFYDPTFKYHLTVAQVRGAMVFELANSIVLPFDCQSYAVALKKHAETIYNISMNHPQEMKAYMISFDSLFSAVNNFTDVASKFNQRLQDLDKSNPILLRILNDQLMYLERAFIDPLGLPGRPFYRHIIYAPSSHNKYAGESFPGIYDALFDINNKVDTSKAWREVKRQISIAAFTVQAAAETLREVD |
| 6740 | sp|Q7M759|AB17B\_MOUSE | MNNLSFSELCCLFCCPPCPGKIASKLAFLPPDPTYTLMCDESGSRWTLHLSERADWQYSSREKDAIECFMTRTSKGNRIACMFVRCSPNAKYTLLFSHGNAVDLGQMSSFYIGLGSRINCNIFSYDYSGYGASSGKPTEKNLYADVEAAWLALRTRYGIRPENVIIYGQSIGTVPSVDLAARYESAAVILHSPLTSGMRVAFPDTKKTYCFDAFPNIDKISKITSPVLIIHGTEDEVIDFSHGLALFERCQRPVEPLWVEGAGHNDVELYGQYLERLKQFVSQELVNL |
| 6741 | sp|Q9UGI9|AAKG3\_HUMAN | MEPGLEHALRRTPSWSSLGGSEHQEMSFLEQENSSSWPSPAVTSSSERIRGKRRAKALRWTRQKSVEEGEPPGQGEGPRSRPAAESTGLEATFPKTTPLAQADPAGVGTPPTGWDCLPSDCTASAAGSSTDDVELATEFPATEAWECELEGLLEERPALCLSPQAPFPKLGWDDELRKPGAQIYMRFMQEHTCYDAMATSSKLVIFDTMLEIKKAFFALVANGVRAAPLWDSKKQSFVGMLTITDFILVLHRYYRSPLVQIYEIEQHKIETWREIYLQGCFKPLVSISPNDSLFEAVYTLIKNRIHRLPVLDPVSGNVLHILTHKRLLKFLHIFGSLLPRPSFLYRTIQDLGIGTFRDLAVVLETAPILTALDIFVDRRVSALPVVNECGQVVGLYSRFDVIHLAAQQTYNHLDMSVGEALRQRTLCLEGVLSCQPHESLGEVIDRIAREQVHRLVLVDETQHLLGVVSLSDILQALVLSPAGIDALGA |
| 6742 | sp|P36872|2ABA\_DROME | MGRWGRQSPVLEPPDPQMQTTPPPPTLPPRTFMRQSSITKIGNMLNTAININGAKKPASNGEASWCFSQIKGALDDDVTDADIISCVEFNHDGELLATGDKGGRVVIFQRDPASKAANPRRGEYNVYSTFQSHEPEFDYLKSLEIEEKINKIRWLQQKNPVHFLLSTNDKTVKLWKVSERDKSFGGYNTKEENGLIRDPQNVTALRVPSVKQIPLLVEASPRRTFANAHTYHINSISVNSDQETFLSADDLRINLWHLEVVNQSYNIVDIKPTNMEELTEVITAAEFHPTECNVFVYSSSKGTIRLCDMRSAALCDRHSKQFEEPENPTNRSFFSEIISSISDVKLSNSGRYMISRDYLSIKVWDLHMETKPIETYPVHEYLRAKLCSLYENDCIFDKFECCWNGKDSSIMTGSYNNFFRVFDRNSKKDVTLEASRDIIKPKTVLKPRKVCTGGKRKKDEISVDCLDFNKKILHTAWHPEENIIAVAATNNLFIFQDKF |
| 6743 | sp|Q17R13|ACK1\_BOVIN | MQPEEGTGWLLELLSEVQLQQYFLRLRDDLNVTRLSHFEYVKNEDLEKIGMGRPGQRRLWEAVKRRKAMCKRKSWMSKVFSGKRLEAEFPPHHSQSTFRKTSPTPGGSAGEGSLQSLTCLIGEKDLHLFEKLGDGSFGVVRRGEWDAPSGKTVSVAVKCLKPDVLSQPEAMDDFIREVNAMHSLDHRNLIRLYGVVLTPPMKTVTELAPLGSLLDRLRKHQGHFLLGTLSRYAVQVAEGMGYLEAKRFIHRDLAARNLLLATRDLVKIGDFGLMRALPQNDDHYVMQEHRKVPFAWCAPESLKTRTFSHASDTWMFGVTLWEMFTYGQEPWIGLNGSQILHKIDKEGERLPRPEDCPQDIYNVMVQCWAHKPEDRPTFVALRDFLLEAQPTDMRALQDFEEPDKLHIQMNDVITVIEGRAENYWWRGQNTRTLCVGPFPRNVVTSVAGLSAQDISQPLQNSFIHTGHGDSDPRHCWGFPDKIDELYLGNPMDPPDLLSVELSTSRPTQHLGRVKKPTYDPVSEDQDPLSSDFKRLGLRKPGLPRGLWLAKPSARVPGTKAGRGGGEVTLIDFGEEPVVPAPRPCAPSLAQLAMDACSLLDKTPPQSPTRALPRPLHPTPVVDWDARPLPPPPAYDDVAQDEDDFEVCSINSTLVGAGVSAEPSQGETNYAFVPEPARLLPPLEDNLFLPPQSGGKPPNSAQTAEIFQALQQECMRQLQVPPGSLVPSPSPGGDDKPQVPPRVPIPPRPTRSRGELSPVPPGEEEMGRWPGPASPPRVPPREPLSPQGSRTPSPLVPPGSSPLPPRLSSSPGKTMPTTQSFASDPKYATPQVIQAPGPRAGPCILPIVRDGKKVSSTHYYLLPERPPYLERYQRFLHEAQSPRGPDPTPIPLLLPPPSTPAPAAPTATVRPMPQAAPDPKANFSSNNSNPGARPSSLRATARLPQRGYPGDGPEAGRPADKIQMLQAMVHGVTTEECQAALQSHSWSVQRAAQYLKVEQLFGLGLRPRGECHNVLEMFDWNLEQAGCHLLGSCGPAHHKR |
| 6744 | sp|Q42093|AB2C\_ARATH | MGFEFIEWYCKPVPNGVWTKQVANAFGAYTPCATDSFVLGISQLVLLVLCLYRIWLALKDHKVERFCLRSRLYNYFLALLAAYATAEPLFRLIMGISVLDFDGPGLPPFEAFGLGVKAFAWGAVMVMILMETKIYIRELRWYVRFAVIYALVGDMVLLNLVLSVKEYYSSYVLYLYTSEVGAQVLFGILLFMHLPNLDTYPGYMPVRSETVDDYEYEEISDGQQICPEKHANIFDKIFFSWMNPLMTLGSKRPLTEKDVWYLDTWDQTETLFTSFQHSWDKELQKPQPWLLRALNNSLGGRFWWGGFWKIGNDCSQFVGPLLLNQLLKSMQEDAPAWMGYIYAFSIFVGVVFGVLCEAQYFQNVMRVGYRLRSALIAAVFRKSLRLTNEGRRKFQTGKITNLMTTDAESLQQICQSLHTMWSAPFRIIIALILLYQQLGVASLIGALLLVLMFPLQTVIISKMQKLTKEGLQRTDKRIGLMNEVLAAMDTVKCYAWENSFQSKVQTVRDDELSWFRKSQLLGALNMFILNSIPVLVTIVSFGVFTLLGGDLTPARAFTSLSLFAVLRFPLFMLPNIITQVVNANVSLKRLEEVLATEERILLPNPPIEPGEPAISIRNGYFSWDSKGDRPTLSNINLDVPLGSLVAVVGSTGEGKTSLISAILGELPATSDAIVTLRGSVAYVPQVSWIFNATVRDNILFGSPFDREKYERAIDVTSLKHDLELLPGGDLTEIGERGVNISGGQKQRVSMARAVYSNSDVYIFDDPLSALDAHVGQQVFEKCIKRELGQKTRVLVTNQLHFLSQVDRIVLVHEGTVKEEGTYEELSSNGPLFQRLMENAGKVEEYSEENGEAEADQTAEQPVANGNTNGLQMDGSDDKKSKEGNKKGGKSVLIKQEERETGVVSWRVLKRYQDALGGAWVVMMLLLCYVLTEVFRVTSSTWLSEWTDAGTPKSHGPLFYNLIYALLSFGQVLVTLTNSYWLIMSSLYAAKKLHDNMLHSILRAPMSFFHTNPLGRIINRFAKDLGDIDRTVAVFVNMFMGQVSQLLSTVVLIGIVSTLSLWAIMPLLVLFYGAYLYYQNTAREVKRMDSISRSPVYAQFGEALNGLSTIRAYKAYDRMADINGRSMDNNIRFTLVNMGANRWLGIRLETLGGLMIWLTASFAVMQNGRAENQQAFASTMGLLLSYALNITSLLTGVLRLASLAENSLNAVERVGNYIEIPPEAPPVIENNRPPPGWPSSGSIKFEDVVLRYRPQLPPVLHGVSFFIHPTDKVGIVGRTGAGKSSLLNALFRIVEVEKGRILIDDCDVGKFGLMDLRKVLGIIPQSPVLFSGTVRFNLDPFGEHNDADLWESLERAHLKDTIRRNPLGLDAEVSEAGENFSVGQRQLLSLSRALLRRSKILVLDEATAAVDVRTDALIQKTIREEFKSCTMLIIAHRLNTIIDCDKILVLDSGRVQEFSSPENLLSNEGSSFSKMVQSTGAANAEYLRSLVLDNKRAKDDSHHLQGQRKWLASSRWAAAAQFALAASLTSSHNDLQSLEIEDDSSILKRTNDAVVTLRSVLEGKHDKEIAESLEEHNISREGWLSSLYRMVEGLAVMSRLARNRMQQPDYNFEGNTFDWDNVEM |
| 6745 | sp|B1WC61|ACAD9\_RAT | MSGYVLFSRGATAAAAAARASRVLRVFTERRRTLHTSLQSCSFAKELFLGHIQQKGVFPFPEVSQEELSEINQFVGPLEKFFNEEVDSRKIDQEGKIPADTLAKLKSLGLFGIQVPEEYGGLGLSNTMYARLGEIISMDASITVTLAAHQAIGLKGIILVGNEEQKAKYLPKLSSGEHIAAFCLTEPASGSDAASIQTRATLSEDKKYFVLNGSKVWITNGGLANIFTVFAKTEVVDSDGSIKDKMTAFIVERDFGGITNGKPEDKLGIRGSNTCEVHFENTRVPVENVLGEVGGGFKVAMNILNSGRFSMGSAVAGMLKKLIEQTAEYACTRKQFNRNLSEFGLIQEKFALMAQKAYVMESMAYLTSGMLDQPGFPDCSIEAAMVKVFSSEAAWQCVSEALQILGGSGYMKDYPYERMLRDARILLIFEGTNEILRLFIALTGLQHAGRILTSRIKELKSGNVTTVMETIGRKLRDSLGRTVDLGLSSNIAVVHPSLGDSANKLEENVHYFGRTVETLLLRFGKTIVEEQLVLKRVANILINLYGMTAVLSRASRSIRIGLKNHDHEILLANMFCVEAYFQNLFSLSQLDKYAPENLDEQIKKVSQQILEKRAYICAHPLDRAS |
| 6746 | sp|P20782|ACHE\_MOUSE | MAGALLGALLLLTLFGRSQGKNEELSLYHHLFDNYDPECRPVRRPEDTVTITLKVTLTNLISLNEKEETLTTSVWIGIDWHDYRLNYSKDDFAGVGILRVPSEHVWLPEIVLENNIDGQFGVAYDSNVLVYEGGYVSWLPPAIYRSTCAVEVTYFPFDWQNCSLIFRSQTYNAEEVEFIFAVDDDGNTINKIDIDTAAFTENGEWAIDYCPGMIRRYEGGSTEGPGETDVIYTLIIRRKPLFYVINIIVPCVLISGLVLLAYFLPAQAGGQKCTVSINVLLAQTVFLFLIAQKIPETSLSVPLLGRYLIFVMVVATLIVMNCVIVLNVSLRTPTTHATSPRLRQILLELLPRLLGSSPPPEDPRTASPARRASSVGILLRAEELILKKPRSELVFEGQRHRHGTWTAALCQNLGAAAPEIRCCVDAVNFVAESTRDQEATGEELSDWVRMGKALDNVCFWAALVLFSVGSTLIFLGGYFNQVPDLPYPPCIQP |
| 6747 | sp|Q38970|ACC1\_ARATH | MAGSVNGNHSAVGPGINYETVSQVDEFCKALRGKRPIHSILIANNGMAAVKFIRSVRTWAYETFGTEKAILLVGMATPEDMRINAEHIRIADQFVEVPGGTNNNNYANVQLIVEMAEVTRVDAVWPGWGHASENPELPDALDAKGIIFLGPPASSMAALGDKIGSSLIAQAADVPTLPWSGSHVKIPPNSNLVTIPEEIYRQACVYTTEEAIASCQVVGYPAMIKASWGGGGKGIRKVHNDDEVRALFKQVQGEVPGSPIFIMKVASQSRHLEVQLLCDKHGNVSALHSRDCSVQRRHQKIIEEGPITVAPPETVKKLEQAARRLAKSVNYVGAATVEYLYSMDTGEYYFLELNPRLQVEHPVTEWIAEINLPAAQVAVGMGIPLWQIPEIRRFYGIEHGGGYDSWRKTSVVAFPFDFDKAQSIRPKGHCVAVRVTSEDPDDGFKPTSGRVQELSFKSKPNVWAYFSVKSGGGIHEFSDSQFGHVFAFGESRALAIANMVLGLKEIQIRGEIRTNVDYTIDLLHASDYRDNKIHTGWLDSRIAMRVRAERPPWYLSVVGGALYKASATSAAVVSDYVGYLEKGQIPPKHISLVHSQVSLNIEGSKYTIDVVRGGSGTYRLRMNKSEVVAEIHTLRDGGLLMQLDGKSHVIYAEEEAAGTRLLIDGRTCLLQNDHDPSKLMAETPCKLMRYLISDNSNIDADTPYAEVEVMKMCMPLLSPASGVIHFKMSEGQAMQAGELIANLDLDDPSAVRKAEPFHGSFPRLGLPTAISGRVHQRCAATLNAARMILAGYEHKVDEVVQDLLNCLDSPELPFLQWQECFAVLATRLPKNLRNMLESKYREFESISRNSLTTDFPAKLLKGILEAHLSSCDEKERGALERLIEPLMSLAKSYEGGRESHARVIVHSLFEEYLSVEELFNDNMLADVIERMRQLYKKDLLKIVDIVLSHQGIKNKNKLVLRLMEQLVYPNPAAYRDKLIRFSTLNHTNYSELALKASQLLEQTKLSELRSNIARSLSELEMFTEDGENMDTPKRKSAINERIEDLVSASLAVEDALVGLFDHSDHTLQRRVVETYIRRLYQPYVVKDSVRMQWHRSGLLASWEFLEEHMERKNIGLDDPDTSEKGLVEKRSKRKWGAMVIIKSLQFLPSIISAALRETKHNDYETAGAPLSGNMMHIAIVGINNQMSLLQDSGDEDQAQERVNKLAKILKEEEVSSSLCSAGVGVISCIIQRDEGRTPMRHSFHWSLEKQYYVEEPLLRHLEPPLSIYLELDKLKGYSNIQYTPSRDRQWHLYTVTDKPVPIKRMFLRSLVRQATMNDGFILQQGQDKQLSQTLISMAFTSKCVLRSLMDAMEELELNAHNAAMKPDHAHMFLCILREQQIDDLVPFPRRVEVNAEDEETTVEMILEEAAREIHRSVGVRMHRLGVCEWEVRLWLVSSGLACGAWRVVVANVTGRTCTVHIYREVETPGRNSLIYHSITKKGPLHETPISDQYKPLGYLDRQRLAARRSNTTYCYDFPLAFGTALELLWASQHPGVKKPYKDTLINVKELVFSKPEGSSGTSLDLVERPPGLNDFGMVAWCLDMSTPEFPMGRKLLVIANDVTFKAGSFGPREDAFFLAVTELACAKKLPLIYLAANSGARLGVAEEVKACFKVGWSDEISPENGFQYIYLSPEDHERIGSSVIAHEVKLSSGETRWVIDTIVGKEDGIGVENLTGSGAIAGAYSKAYNETFTLTFVSGRTVGIGAYLARLGMRCIQRLDQPIILTGFSTLNKLLGREVYSSHMQLGGPKIMGTNGVVHLTVSDDLEGVSAILNWLSYIPAYVGGPLPVLAPLDPPERIVEYVPENSCDPRAAIAGVKDNTGKWLGGIFDKNSFIETLEGWARTVVTGRAKLGGIPVGVVAVETQTVMQIIPADPGQLDSHERVVPQAGQVWFPDSAAKTAQALMDFNREELPLFILANWRGFSGGQRDLFEGILQAGSTIVENLRTYRQPVFVYIPMMGELRGGAWVVVDSQINSDYVEMYADETARGNVLEPEGTIEIKFRTKELLECMGRLDQKLISLKAKLQDAKQSEAYANIELLQQQIKAREKQLLPVYIQIATKFAELHDTSMRMAAKGVIKSVVEWSGSRSFFYKKLNRRIAESSLVKNVREASGDNLAYKSSMRLIQDWFCNSDIAKGKEEAWTDDQVFFTWKDNVSNYELKLSELRAQKLLNQLAEIGNSSDLQALPQGLANLLNKVEPSKREELVAAIRKVLG |
| 6748 | sp|Q09388|ACM2\_CAEEL | MAVASVLLALFMLFLSIVTVIGNLAVLLSYYLDKNIRQPTNYFIFSLAISDLLIGLEGIPVYTAFYLNNNEWIWGDVLCDLWLSIDYIVCLASIYTVLGITVDRYYSVKKPATYRNWRTPGRVVLIIIFIWLVPSILFSVSIFGYGTFTGTGRILKETECYVQFMTNPYLNMGMYISYYWTTLFVMLYLYWGIYRAAKKLALKSDQKTKRLALLTEMRRPEVSVRTSDAGNSSSDSPNDTSNSSKCFRTAPPTTTVQTTQTNVGTPPPVFRNHMTLHNNNMDFTKDNEIVRPPTPPDDNTYSNPNFSMISEQLTNGFSRQEPSSVIERESTAPCVSPEPSHASLENEFNENHHAHFKPELSLPFIDADSVSSMVGHDDLRRAMSIRISRSVSMQGTARATPVIEIVENLEEALKICENLEELREDENKNEEEKQKNGLENGGMNHVIIANDEQQPSTSKESEQKEEMTPENHDPNEVKVPLIAVSRVESVKSTAGGKVRRLITQMRSHSIRSKRKANKNKSVLSALNFFQRKKEYKSRSENRARKALRTITFILGSFIILWTPFYVLATIYGFCETCKASPSFNTLYTISYYLCYMNSPLNPFCYAMANQQFKKTLTRIFKGDFRRV |
| 6749 | sp|P25516|ACNA\_ECOLI | MSSTLREASKDTLQAKDKTYHYYSLPLAAKSLGDITRLPKSLKVLLENLLRWQDGNSVTEEDIHALAGWLKNAHADREIAYRPARVLMQDFTGVPAVVDLAAMREAVKRLGGDTAKVNPLSPVDLVIDHSVTVDRFGDDEAFEENVRLEMERNHERYVFLKWGKQAFSRFSVVPPGTGICHQVNLEYLGKAVWSELQDGEWIAYPDTLVGTDSHTTMINGLGVLGWGVGGIEAEAAMLGQPVSMLIPDVVGFKLTGKLREGITATDLVLTVTQMLRKHGVVGKFVEFYGDGLDSLPLADRATIANMSPEYGATCGFFPIDAVTLDYMRLSGRSEDQVELVEKYAKAQGMWRNPGDEPIFTSTLELDMNDVEASLAGPKRPQDRVALPDVPKAFAASNELEVNATHKDRQPVDYVMNGHQYQLPDGAVVIAAITSCTNTSNPSVLMAAGLLAKKAVTLGLKRQPWVKASLAPGSKVVSDYLAKAKLTPYLDELGFNLVGYGCTTCIGNSGPLPDPIETAIKKSDLTVGAVLSGNRNFEGRIHPLVKTNWLASPPLVVAYALAGNMNINLASEPIGHDRKGDPVYLKDIWPSAQEIARAVEQVSTEMFRKEYAEVFEGTAEWKGINVTRSDTYGWQEDSTYIRLSPFFDEMQATPAPVEDIHGARILAMLGDSVTTDHISPAGSIKPDSPAGRYLQGRGVERKDFNSYGSRRGNHEVMMRGTFANIRIRNEMVPGVEGGMTRHLPDSDVVSIYDAAMRYKQEQTPLAVIAGKEYGSGSSRDWAAKGPRLLGIRVVIAESFERIHRSNLIGMGILPLEFPQGVTRKTLGLTGEEKIDIGDLQNLQPGATVPVTLTRADGSQEVVPCRCRIDTATELTYYQNDGILHYVIRNMLK |
| 6750 | sp|P84888|AAUB\_ALCFA | MKSKFKLTTAAAMLGLMVLAGGAQAQDKPREVLTGGHSVSAPQENRIYVMDSVFMHLTESRVHVYDYTNGKFLGMVPTAFNGHVQVSNDGKKIYTMTTYHERITRGKRSDVVEVWDADKLTFEKEISLPPKRVQGLNYDGLFRQTTDGKFIVLQNASPATSIGIVDVAKGDYVEDVTAAAGCWSVIPQPNRPRSFMTICGDGGLLTINLGEDGKVASQSRSKQMFSVKDDPIFIAPALDKDKAHFVSYYGNVYSADFSGDEVKVDGPWSLLNDEDKAKNWVPGGYNLVGLHRASGRMYVFMHPDGKEGTHKFPAAEIWVMDTKTKQRVARIPGRDALSMTIDQQRNLMLTLDGGNVNVYDISQPEPKLLRTIEGAAEASLQVQFHPVGGV |
| 6751 | sp|P16116|ALDR\_BOVIN | AHNIVLYTGAKMPILGLGTWKSPPGKVTEAVKVAIDLGYRHIDCAHVYQNENEVGLALQAKLQEKVVKREDLFIVSKLWCTYHDKDLVKGACQKTLSDLKLDYLDLYLIHWPTGFKPGKDFFPLDEDGNVIPSEKDFVDTWTAMEELVDEGLVKAIGVSNFNHLQVEKILNKPGLKYKPAVNQIECHPYLTQEKLIQYCNSKGIVVTAYSPLGSPDRPWAKPEDPSILEDPRIKAIADKYNKTTAQVLIRFPIQRNLIVIPKSVTPERIAENFQVFDFELDKEDMNTLLSYNRDWRACALVSCASHRDYPFHEEF |
| 6752 | sp|Q944G9|ALFP2\_ARATH | MASTSLLKASPVLDKSEWVKGQSVLFRQPSSASVVLRNRATSLTVRAASSYADELVKTAKTIASPGRGILAMDESNATCGKRLDSIGLENTEANRQAFRTLLVSAPGLGQYVSGAILFEETLYQSTTEGKKMVDVLVEQNIVPGIKVDKGLVPLVGSNNESWCQGLDGLSSRTAAYYQQGARFAKWRTVVSIPNGPSALAVKEAAWGLARYAAISQDSGLVPIVEPEILLDGEHDIDRTYDVAEKVWAEVFFYLAQNNVMFEGILLKPSMVTPGAESKDRATPEQVAAYTLKLLRNRVPPAVPGIMFLSGGQSEVEATLNLNAMNQAPNPWHVSFSYARALQNTCLKTWGGRPENVNAAQTTLLARAKANSLAQLGKYTGEGESEEAKEGMFVKGYTY |
| 6753 | sp|Q5ZIN0|ABD12\_CHICK | MRKRNESVTVEHERAAAAPAPLDKGCSLRHSLRLPAADTGMKRPLGRRHGLWFRLRRLIIWLLGVYIAIPFLVKLCPAIQAKLVFLNFVRVPYFIDLKRPQDQGLNHTCNYYLQPEEDVTIGVWHTVPAALWKNARGKDQLWFEDALGSSHPVILYLHGNAGTRGGDHRVELYKVLSSLGYHVVTFDYRGWGDSVGSPSERGMTYDALHVFDWIKARSGDNPVYIWGHSLGTGVATNLVRRLCERETPPEALILESPFTNIREEARSHPFSVIYRYFPGFDWFFLDPITTSGIKFANDENVKYISCSLLILHAEDDPVVPFHLGKKLYNIAATSRSFRDYKVQFVPFHTDLGYRHKYIYRSPELPRILREFLGIPEHEHHH |
| 6754 | sp|Q9SMZ4|AASS\_ARATH | MNSNGHEEEKKLGNGVVGILAETVNKWERRTPLTPSHCARLLHGGKDRTGISRIVVQPSAKRIHHDALYEDVGCEISDDLSDCGLILGIKQPELEMILPERAYAFFSHTHKAQKENMPLLDKILSERVTLCDYELIVGDHGKRLLAFGKYAGRAGLVDFLHGLGQRKLILGYSTPFLSLGASYMYSSLAAAKAAVISVGEEIASQGLPLGICPLVFVFTGTGNVSLGAQEIFKLLPHTFVEPSKLPELFVKDKGISQNGISTKRVYQVYGCIITSQDMVEHKDPSKSFDKADYYAHPEHYNPVFHEKISPYTSVLVNCMYWEKRFPCLLSTKQLQDLTKKGLPLVGICDITCDIGGSIEFVNRATLIDSPFFRFNPSNNSYYDDMDGDGVLCMAVDILPTEFAKEASQHFGDILSGFVGSLASMTEISDLPAHLKRACISYRGELTSLYEYIPRMRKSNPEEAQDNIIANGVSSQRTFNILVSLSGHLFDKFLINEALDMIEAAGGSFHLAKCELGQSADAESYSELEVGADDKRVLDQIIDSLTRLANPNEDYISPHREANKISLKIGKVQQENEIKEKPEMTKKSGVLILGAGRVCRPAADFLASVRTISSQQWYKTYFGADSEEKTDVHVIVASLYLKDAKETVEGISDVEAVRLDVSDSESLLKYVSQVDVVLSLLPASCHAVVAKTCIELKKHLVTASYVDDETSMLHEKAKSAGITILGEMGLDPGIDHMMAMKMINDAHIKKGKVKSFTSYCGGLPSPAAANNPLAYKFSWNPAGAIRAGQNPAKYKSNGDIIHVDGKNLYDSAARFRVPNLPAFALECFPNRDSLVYGEHYGIESEATTIFRGTLRYEGFSMIMATLSKLGFFDSEANQVLSTGKRITFGALLSNILNKDADNESEPLAGEEEISKRIIKLGHSKETAAKAAKTIVFLGFNEEREVPSLCKSVFDATCYLMEEKLAYSGNEQDMVLLHHEVEVEFLESKRIEKHTATLLEFGDIKNGQTTTAMAKTVGIPAAIGALLLIEDKIKTRGVLRPLEAEVYLPALDILQAYGIKLMEKAE |
| 6755 | sp|P53954|ALG11\_YEAST | MGSAWTNYNFEEVKSHFGFKKYVVSSLVLVYGLIKVLTWIFRQWVYSSLNPFSKKSSLLNRAVASCGEKNVKVFGFFHPYCNAGGGGEKVLWKAVDITLRKDAKNVIVIYSGDFVNGENVTPENILNNVKAKFDYDLDSDRIFFISLKLRYLVDSSTWKHFTLIGQAIGSMILAFESIIQCPPDIWIDTMGYPFSYPIIARFLRRIPIVTYTHYPIMSKDMLNKLFKMPKKGIKVYGKILYWKVFMLIYQSIGSKIDIVITNSTWTNNHIKQIWQSNTCKIIYPPCSTEKLVDWKQKFGTAKGERLNQAIVLAQFRPEKRHKLIIESFATFLKNLPDSVSPIKLIMAGSTRSKQDENYVKSLQDWSENVLKIPKHLISFEKNLPFDKIEILLNKSTFGVNAMWNEHFGIAVVEYMASGLIPIVHASAGPLLDIVTPWDANGNIGKAPPQWELQKKYFAKLEDDGETTGFFFKEPSDPDYNTTKDPLRYPNLSDLFLQITKLDYDCLRVMGARNQQYSLYKFSDLKFDKDWENFVLNPICKLLEEEERG |
| 6756 | sp|Q9NWT8|AKIP\_HUMAN | MLLGRLTSQLLRAVPWAGGRPPWPVSGVLGSRVCGPLYSTSPAGPGRAASLPRKGAQLELEEMLVPRKMSVSPLESWLTARCFLPRLDTGTAGTVAPPQSYQCPPSQIGEGAEQGDEGVADAPQIQCKNVLKIRRRKMNHHKYRKLVKKTRFLRRKVQEGRLRRKQIKFEKDLRRIWLKAGLKEAPEGWQTPKIYLRGK |
| 6757 | sp|Q9M6E9|AGGL\_ABRPR | MKFETTKNKLHGNAYYQAQFQDPIKFTTGSATPASYNQFIDALRERLTGGLIYGIPVLRDPSTVEKPNQYVTVELSYSDTVSIQLGIDLTNAYVVAYRAGSESFFFRNAPASASTYLFTGTQQYSLPFDGNYDDLEKWAHQSRQRISLGLEALRQGIKFLRSGASDDEEIARTLIVIIQMVAEAARFRYVSKLVVISLSNRAAFQPDPSMLSLENTWEPLSRAVQHTVQDTFPQNVTLINVRQERVVVSSLSHPSVSALALMLFVCNPLNATQSPLLIRSVVEQSKICSSHYEPTVRIGGRDGLCVDVSDNAYNNGNPIILWKCKDQLEVNQLWTLKSDKTIRSKGKCLTTYGYAPGNYVMIYDCSSAVAEATYWDIWDNGTIINPKSGLVLSAESSSMGGTLTVQKNDYRMRQGWRTGNDTSPFVTSIAGFFKLCMEAHGNSMWLDVCDITKEEQQWAVYPDGSIRPVQNTNNCLTCEEHKQGATIVMMGCSNAWASQRWVFKSDGTIYNLYDDMVMDVKSSDPSLKQIILWPYTGNANQMWATLF |
| 6758 | sp|P01009|A1AT\_HUMAN | MPSSVSWGILLLAGLCCLVPVSLAEDPQGDAAQKTDTSHHDQDHPTFNKITPNLAEFAFSLYRQLAHQSNSTNIFFSPVSIATAFAMLSLGTKADTHDEILEGLNFNLTEIPEAQIHEGFQELLRTLNQPDSQLQLTTGNGLFLSEGLKLVDKFLEDVKKLYHSEAFTVNFGDTEEAKKQINDYVEKGTQGKIVDLVKELDRDTVFALVNYIFFKGKWERPFEVKDTEEEDFHVDQVTTVKVPMMKRLGMFNIQHCKKLSSWVLLMKYLGNATAIFFLPDEGKLQHLENELTHDIITKFLENEDRRSASLHLPKLSITGTYDLKSVLGQLGITKVFSNGADLSGVTEEAPLKLSKAVHKAVLTIDEKGTEAAGAMFLEAIPMSIPPEVKFNKPFVFLMIEQNTKSPLFMGKVVNPTQK |
| 6759 | sp|A0A1D8PQ86|ALS9\_CANAL | MLPQFLLLLLYLTVSTAKTITGVFNSFDSLTWTRSVEYVYKGPETPTWTAVLGWSLNSTTADAGDTFTLIMPCVFKFITSQTSVDLTADGVSYATCDFNAGEEFTTFSSLSCTVNSVSVSYDKASGTVKLPITFNVGGTGSSVDLTDSKCFTAGKNTVTFMDGDTKISTTVDFDASPVSPSGYITSSRIIPSLNKASSLFVSPQCENGYTSGIMGFVTSQGATIDCSNINIGISKGLNDWNFPVSSESFTYTKTCSSSGIIVEYENVPAGYRPFVDAYISSENVEQYTLTYANEYTCKNGNTVVDPFTLTWWGYKNSEADSNGDIIVVTTKTVTASTTAVTTLPFNPTVDKTETIEVLQPIPTTTITTSYIGISTSYETFTATIGGTATVIVDTPYHITTTVTTFWTGSVTTTTTYSNPTGSIDTVIVQIPSPDPTTTITEFWSESFASTTTVTNPPDGTNSVIIKEPYNPTVTTTEFWSESFASTTTITNPPDGTNSVIVKEPYNPTVTTTEFWSESFASTTTVTNPPDGTNSVIIKEPYNPTVTTTEFWSESFASTTTITNPPDGTNSVIVKEPYNPTVTTTEFWSESFASTTTVTNPPDGTNSVIIKEPYNPTVTTTEFWSESFASTTTITNPPDGTNSVIVKEPYNPTVTTTEFWSESFASTTTITNPPDGTNSVIVKEPYNPTVTTTEFWSESFASTTTITNPPDGTNSVIVKEPYNPTVTTTEFWSESFASTTTITNPPDGTNSVIVKEPYNPTVTTTEFWSESFASTTTVTNPPDGTNSVIVKEPYNPTVTTTEFWSESFASTTTITNPPDGTNSVIVKEPYNPTVTTTEFWSESFASTTTITNPPDGTNSVIVKEPYNPTVTTTEFWSESFASTTTITNPPDGTNSVIIKEPYNPTVTTTEFWSESFASTTTITNPPDGTNSVIIKEPYNPTVTTTEFWSESFASTTTVTNPPDGTNSVIIKEPYNPTVTTTEFWSESFASTTTVTNPPDGTNSVIIKEPYNPTVTTTEFWSESFASTTTVTNPPDGTNSVIVKEPYNPTVTTTEFWSESFASTTTVTNPPDGTNSVIIKEPYNPTVTTTEFWSESFASTTPSVSSFESKTFYSSEAQSSLEIDSSNTFMTSISVSTASSYDESSTIVSSAFPTLHISSYSLSTSFVPPVTLPRYVNTTISSSPSFESSSMYSSVTSAVTSIDNDREVPTSTTTYLHSKLYSESISTVIQTKSSDWSLSLGNSNKPESASTVSEESLHYLSTPGPSSSEYSISFTSEKEGHVSSYVPRVSYTSSVKVSISSTMSSENGMSATHTFGISTNTIPSSTETSIKSATVTTPVSESTNTGMSIFMSTTTESKTTDITTETSVSGEVNLGSATVKVSSSEFISKGTVTRIMPTELTNSESTFTASPSFVLTSTESSVIETPATIEMSSRSSSYSVPLSKLRSEGETTRVIPTSSTATGSTVIGSPSSVSTSNESIITGSSSFVSTTAETISTRSIVTESIVAGSPSLVLTTTVLDTTETTITETSIVGESSSRSLTFKASSLSKGEITGTVTPEMSVSTSKATTGTTSEVSIKESLTTKVPTFTSTTIKPETSETQHSESRTTQIPYSETKGSQLSTANSQVSQTGSSKSSIFESAISKDESTFVSATVKSITTPAVTQYQTSLPNPAVSVSEESGKKSSIIESQTENSATQHSIYFDSIETSTLSNTLANTLVSGAMKNSETTSELTTSDKAIGFSTTTETSIPGATNSALSPSVDSGKSSMLGWSGGIVSTVSTSTRLEDSTATSSSITAANQDSLNPSTVSKYPHGSETIDNGSNGSSHSSSALASTISASHSIKFSAHQTTLSQSLISSSTKTVIASTYDGSGSVIKLHSWFYGLVTIFFLFI |
| 6760 | sp|Q9ERZ4|ACM2\_MOUSE | MNNSTNSSNNGLAITSPYKTFEVVFIVLVAGSLSLVTIIGNILVMVSIKVNRHLQTVNNYFLFSLACADLIIGVFSMNLYTLYTVIGYWPLGPVVCDLWLALDYVVSNASVMNLLIISFDRYFCVTKPLTYPVKRTTKMAGMMIAAAWVLSFILWAPAILFWQFIVGVRTVEDGECYIQFFSNAAVTFGTAIAAFYLPVIIMTVLYWHISRASKSRIKKEKKEPVANQDPVSPSLVQGRIVKPNNNNMPGGDGGLEHNKIQNGKAPRDGGTENCVQGEEKESSNDSTSVSAVASNMRDDEITQDENTVSTSLGHSKDDNSRQTCIKIVTKTQKGDACTPTSTTVELVGSSGQNGDEKQNIVARKIVKMTKQPAKKKPPPSREKKVTRTILAILLAFIITWAPYNVMVLINTFCAPCIPNTVWTIGYWLCYINSTINPACYALCNATFKKTFKHLLMCHYKNIGATR |
| 6761 | sp|O75027|ABCB7\_HUMAN | MALLAMHSWRWAAAAAAFEKRRHSAILIRPLVSVSGSGPQWRPHQLGALGTARAYQIPESLKSITWQRLGKGNSGQFLDAAKALQVWPLIEKRTCWHGHAGGGLHTDPKEGLKDVDTRKIIKAMLSYVWPKDRPDLRARVAISLGFLGGAKAMNIVVPFMFKYAVDSLNQMSGNMLNLSDAPNTVATMATAVLIGYGVSRAGAAFFNEVRNAVFGKVAQNSIRRIAKNVFLHLHNLDLGFHLSRQTGALSKAIDRGTRGISFVLSALVFNLLPIMFEVMLVSGVLYYKCGAQFALVTLGTLGTYTAFTVAVTRWRTRFRIEMNKADNDAGNAAIDSLLNYETVKYFNNERYEAQRYDGFLKTYETASLKSTSTLAMLNFGQSAIFSVGLTAIMVLASQGIVAGTLTVGDLVMVNGLLFQLSLPLNFLGTVYRETRQALIDMNTLFTLLKVDTQIKDKVMASPLQITPQTATVAFDNVHFEYIEGQKVLSGISFEVPAGKKVAIVGGSGSGKSTIVRLLFRFYEPQKGSIYLAGQNIQDVSLESLRRAVGVVPQDAVLFHNTIYYNLLYGNISASPEEVYAVAKLAGLHDAILRMPHGYDTQVGERGLKLSGGEKQRVAIARAILKDPPVILYDEATSSLDSITEETILGAMKDVVKHRTSIFIAHRLSTVVDADEIIVLDQGKVAERGTHHGLLANPHSIYSEMWHTQSSRVQNHDNPKWEAKKENISKEEERKKLQEEIVNSVKGCGNCSC |
| 6762 | sp|P11883|AL3A1\_RAT | MSSISDTVKRAREAFNSGKTRSLQFRIQQLEALQRMINENLKSISGALASDLGKNEWTSYYEEVAHVLEELDTTIKELPDWAEDEPVAKTRQTQQDDLYIHSEPLGVVLVIGAWNYPFNLTIQPMVGAVAAGNAVILKPSEVSGHMADLLATLIPQYMDQNLYLVVKGGVPETTELLKERFDHIMYTGSTAVGKIVMAAAAKHLTPVTLELGGKSPCYVDKDCDLDVACRRIAWGKFMNSGQTCVAPDYILCDPSIQNQIVEKLKKSLKDFYGEDAKQSRDYGRIINDRHFQRVKGLIDNQKVAHGGTWDQSSRYIAPTILVDVDPQSPVMQEEIFGPVMPIVCVRSLEEAIQFINQREKPLALYVFSNNEKVIKKMIAETSSGGVTANDVIVHITVPTLPFGGVGNSGMGAYHGKKSFETFSHRRSCLVKSLLNEEAHKARYPPSPAKMPRH |
| 6763 | sp|Q99490|AGAP2\_HUMAN | MSRGAGALQRRTTTYLISLTLVKLESVPPPPPSPSAAAVGAPGARGSEPRDPGSPRGAEEPGKKRHERLFHRQDALWISTSSAGAGGAEPPALSPAPASPARPVSPAPGRRLSLWAAPPGPPLSGGLSPDSKPGGAPSSSRRPLLSSPSWGGPEPEGRTGGGVPGSSSPHPGTGSRRLKVAPPPPAPKPCKTVTTSGAKAGGGKGAGSRLSWPESEGKPRVKGSKSSAGTGASVSAAATAAAAGGGGSTASTSGGVGAGAGARGKLSPRKGKSKTLDNSDLHPGPPAGSPPPLTLPPTPSPATAVTAASAQPPGPAPPITLEPPAPGLKRGREGGRASTRDRKMLKFISGIFTKSTGGPPGSGPLPGPPSLSSGSGSRELLGAELRASPKAVINSQEWTLSRSIPELRLGVLGDARSGKSSLIHRFLTGSYQVLEKTESEQYKKEMLVDGQTHLVLIREEAGAPDAKFSGWADAVIFVFSLEDENSFQAVSRLHGQLSSLRGEGRGGLALALVGTQDRISASSPRVVGDARARALCADMKRCSYYETCATYGLNVDRVFQEVAQKVVTLRKQQQLLAACKSLPSSPSHSAASTPVAGQASNGGHTSDYSSSLPSSPNVGHRELRAEAAAVAGLSTPGSLHRAAKRRTSLFANRRGSDSEKRSLDSRGETTGSGRAIPIKQSFLLKRSGNSLNKEWKKKYVTLSSNGFLLYHPSINDYIHSTHGKEMDLLRTTVKVPGKRPPRAISAFGPSASINGLVKDMSTVQMGEGLEATTPMPSPSPSPSSLQPPPDQTSKHLLKPDRNLARALSTDCTPSGDLSPLSREPPPSPMVKKQRRKKLTTPSKTEGSAGQAEAKRKMWKLKSFGSLRNIYKAEENFEFLIVSSTGQTWHFEAASFEERDAWVQAIESQILASLQCCESSKVKLRTDSQSEAVAIQAIRNAKGNSICVDCGAPNPTWASLNLGALICIECSGIHRNLGTHLSRVRSLDLDDWPRELTLVLTAIGNDTANRVWESDTRGRAKPSRDSSREERESWIRAKYEQLLFLAPLSTSEEPLGRQLWAAVQAQDVATVLLLLAHARHGPLDTSVEDPQLRSPLHLAAELAHVVITQLLLWYGADVAARDAQGRTALFYARQAGSQLCADILLQHGCPGEGGSAATTPSAATTPSITATPSPRRRSSAASVGRADAPVALV |
| 6764 | sp|P47738|ALDH2\_MOUSE | MLRAALTTVRRGPRLSRLLSAAATSAVPAPNHQPEVFCNQIFINNEWHDAVSRKTFPTVNPSTGEVICQVAEGNKEDVDKAVKAARAAFQLGSPWRRMDASDRGRLLYRLADLIERDRTYLAALETLDNGKPYVISYLVDLDMVLKCLRYYAGWADKYHGKTIPIDGDFFSYTRHEPVGVCGQIIPWNFPLLMQAWKLGPALATGNVVVMKVAEQTPLTALYVANLIKEAGFPPGVVNIVPGFGPTAGAAIASHEGVDKVAFTGSTEVGHLIQVAAGSSNLKRVTLELGGKSPNIIMSDADMDWAVEQAHFALFFNQGQCCCAGSRTFVQENVYDEFVERSVARAKSRVVGNPFDSRTEQGPQVDETQFKKILGYIKSGQQEGAKLLCGGGAAADRGYFIQPTVFGDVKDGMTIAKEEIFGPVMQILKFKTIEEVVGRANDSKYGLAAAVFTKDLDKANYLSQALQAGTVWINCYDVFGAQSPFGGYKMSGSGRELGEYGLQAYTEVKTVTVKVPQKNS |
| 6765 | sp|P46883|AMO\_ECOLI | MGSPSLYSARKTTLALAVALSFAWQAPVFAHGGEAHMVPMDKTLKEFGADVQWDDYAQLFTLIKDGAYVKVKPGAQTAIVNGQPLALQVPVVMKDNKAWVSDTFINDVFQSGLDQTFQVEKRPHPLNALTADEIKQAVEIVKASADFKPNTRFTEISLLPPDKEAVWAFALENKPVDQPRKADVIMLDGKHIIEAVVDLQNNKLLSWQPIKDAHGMVLLDDFASVQNIINNSEEFAAAVKKRGITDAKKVITTPLTVGYFDGKDGLKQDARLLKVISYLDVGDGNYWAHPIENLVAVVDLEQKKIVKIEEGPVVPVPMTARPFDGRDRVAPAVKPMQIIEPEGKNYTITGDMIHWRNWDFHLSMNSRVGPMISTVTYNDNGTKRKVMYEGSLGGMIVPYGDPDIGWYFKAYLDSGDYGMGTLTSPIARGKDAPSNAVLLNETIADYTGVPMEIPRAIAVFERYAGPEYKHQEMGQPNVSTERRELVVRWISTVGNYDYIFDWIFHENGTIGIDAGATGIEAVKGVKAKTMHDETAKDDTRYGTLIDHNIVGTTHQHIYNFRLDLDVDGENNSLVAMDPVVKPNTAGGPRTSTMQVNQYNIGNEQDAAQKFDPGTIRLLSNPNKENRMGNPVSYQIIPYAGGTHPVAKGAQFAPDEWIYHRLSFMDKQLWVTRYHPGERFPEGKYPNRSTHDTGLGQYSKDNESLDNTDAVVWMTTGTTHVARAEEWPIMPTEWVHTLLKPWNFFDETPTLGALKKDK |
| 6766 | sp|Q9H2U9|ADAM7\_HUMAN | MLPGCIFLMILLIPQVKEKFILGVEGQQLVRPKKLPLIQKRDTGHTHDDDILKTYEEELLYEIKLNRKTLVLHLLRSREFLGSNYSETFYSMKGEAFTRHPQIMDHCFYQGSIVHEYDSAASISTCNGLRGFFRINDQRYLIEPVKYSDEGEHLVFKYNLRVPYGANYSCTELNFTRKTVPGDNESEEDSKIKGIHDEKYVELFIVADDTVYRRNGHPHNKLRNRIWGMVNFVNMIYKTLNIHVTLVGIEIWTHEDKIELYSNIETTLLRFSFWQEKILKTRKDFDHVVLLSGKWLYSHVQGISYPGGMCLPYYSTSIIKDLLPDTNIIANRMAHQLGHNLGMQHDEFPCTCPSGKCVMDSDGSIPALKFSKCSQNQYHQYLKDYKPTCMLNIPFPYNFHDFQFCGNKKLDEGEECDCGPAQECTNPCCDAHTCVLKPGFTCAEGECCESCQIKKAGSICRPAKDECDFPEMCTGHSPACPKDQFRVNGFPCKNSEGYCFMGKCPTREDQCSELFDDEAIESHDICYKMNTKGNKFGYCKNKENRFLPCEEKDVRCGKIYCTGGELSSLLGEDKTYHLKDPQKNATVKCKTIFLYHDSTDIGLVASGTKCGEGMVCNNGECLNMEKVYISTNCPSQCNENPVDGHGLQCHCEEGQAPVACEETLHVTNITILVVVLVLVIVGIGVLILLVRYRKCIKLKQVQSPPTETLGVENKGYFGDEQQIRTEPILPEIHFLNKPASKDSRGIADPNQSAK |
| 6767 | sp|Q61285|ABCD2\_MOUSE | MIHMLNAAAYRVKWTRSGAAKRAACLVAAAYALKTLYPIIGKRLKQPGHRKAKAEAYSPAENREILHCTEIICKKPAPGLNAAFFKQLLELRKILFPKLVTTETGWLCLHSVALISRTFLSIYVAGLDGKIVKSIVEKKPRTFIIKLIKWLMIAIPATFVNSAIRYLECKLALAFRTRLVDHAYETYFANQTYYKVINMDGRLANPDQSLTEDIMMFSQSVAHLYSNLTKPILDVILTSYTLIRTATSRGASPIGPTLLAGLVVYATAKVLKACSPKFGSLVAEEAHRKGYLRYVHSRIIANVEEIAFYRGHKVEMKQLQKCYKALAYQMNLILSKRLWYIMIEQFLMKYVWSSCGLIMVAIPIITATGFADGDLEDGPKQAMVSDRTEAFTTARNLLASGADAIERIMSSYKEITELAGYTARVYNMFWVFDEVKRGIYKRTVTQEPENHSKRGGNLELPLSDTLAIKGTVIDVDHGIICENVPIITPAGEVVASRLNFKVEEGMHLLITGPNGCGKSSLFRILSGLWPVYEGVLYKPPPQHMFYIPQRPYMSLGSLRDQVIYPDSADDMREKGYTDQDLERILHSVHLYHIVQREGGWDAVMDWKDVLSGGEKQRMGMARMFYHKPKYALLDECTSAVSIDVEGKIFQAAIGAGISLLSITHRPSLWKYHTHLLQFDGEGGWRFEQLDTAIRLTLSEEKQKLESQLAGIPKMQQRLNELCKILGEDSVLKTIQTPEKTS |
| 6768 | sp|Q9H172|ABCG4\_HUMAN | MAEKALEAVGCGLGPGAVAMAVTLEDGAEPPVLTTHLKKVENHITEAQRFSHLPKRSAVDIEFVELSYSVREGPCWRKRGYKTLLKCLSGKFCRRELIGIMGPSGAGKSTFMNILAGYRESGMKGQILVNGRPRELRTFRKMSCYIMQDDMLLPHLTVLEAMMVSANLKLSEKQEVKKELVTEILTALGLMSCSHTRTALLSGGQRKRLAIALELVNNPPVMFFDEPTSGLDSASCFQVVSLMKSLAQGGRTIICTIHQPSAKLFEMFDKLYILSQGQCIFKGVVTNLIPYLKGLGLHCPTYHNPADFIIEVASGEYGDLNPMLFRAVQNGLCAMAEKKSSPEKNEVPAPCPPCPPEVDPIESHTFATSTLTQFCILFKRTFLSILRDTVLTHLRFMSHVVIGVLIGLLYLHIGDDASKVFNNTGCLFFSMLFLMFAALMPTVLTFPLEMAVFMREHLNYWYSLKAYYLAKTMADVPFQVVCPVVYCSIVYWMTGQPAETSRFLLFSALATATALVAQSLGLLIGAASNSLQVATFVGPVTAIPVLLFSGFFVSFKTIPTYLQWSSYLSYVRYGFEGVILTIYGMERGDLTCLEERCPFREPQSILRALDVEDAKLYMDFLVLGIFFLALRLLAYLVLRYRVKSER |
| 6769 | sp|Q8W420|ADO2\_ARATH | MQNQMEWDSDSDLSGGDEVAEDGWFGGDNGAIPFPVGSLPGTAPCGFVVSDALEPDNPIIYVNTVFEIVTGYRAEEVIGRNCRFLQCRGPFTKRRHPMVDSTIVAKMRQCLENGIEFQGELLNFRKDGSPLMNKLRLVPIREEDEITHFIGVLLFTDAKIDLGPSPDLSAKEIPRISRSFTSALPIGERNVSRGLCGIFELSDEVIAIKILSQLTPGDIASVGCVCRRLNELTKNDDVWRMVCQNTWGTEATRVLESVPGAKRIGWVRLAREFTTHEATAWRKFSVGGTVEPSRCNFSACAVGNRIVIFGGEGVNMQPMNDTFVLDLGSSSPEWKSVLVSSPPPGRWGHTLSCVNGSRLVVFGGYGSHGLLNDVFLLDLDADPPSWREVSGLAPPIPRSWHSSCTLDGTKLIVSGGCADSGALLSDTFLLDLSMDIPAWREIPVPWTPPSRLGHTLTVYGDRKILMFGGLAKNGTLRFRSNDVYTMDLSEDEPSWRPVIGYGSSLPGGMAAPPPRLDHVAISLPGGRILIFGGSVAGLDSASQLYLLDPNEEKPAWRILNVQGGPPRFAWGHTTCVVGGTRLVVLGGQTGEEWMLNEAHELLLATSTTAST |
| 6770 | sp|Q13015|AF1Q\_HUMAN | MRDPVSSQYSSFLFWRMPIPELDLSELEGLGLSDTATYKVKDSSVGKMIGQATAADQEKNPEGDGLLEYSTFNFWRAPIASIHSFELDLL |
| 6771 | sp|Q9NW15|ANO10\_HUMAN | MKVTLSALDTSESSFTPLVVIELAQDVKEETKEWLKNRIIAKKKDGGAQLLFRPLLNKYEQETLENQNLYLVGASKIRMLLGAEAVGLVKECNDNTMRAFTYRTRQNFKGFDDNNDDFLTMAECQFIIKHELENLRAKDEKMIPGYPQAKLYPGKSLLRRLLTSGIVIQVFPLHDSEALKKLEDTWYTRFALKYQPIDSIRGYFGETIALYFGFLEYFTFALIPMAVIGLPYYLFVWEDYDKYVIFASFNLIWSTVILELWKRGCANMTYRWGTLLMKRKFEEPRPGFHGVLGINSITGKEEPLYPSYKRQLRIYLVSLPFVCLCLYFSLYVMMIYFDMEVWALGLHENSGSEWTSVLLYVPSIIYAIVIEIMNRLYRYAAEFLTSWENHRLESAYQNHLILKVLVFNFLNCFASLFYIAFVLKDMKLLRQSLATLLITSQILNQIMESFLPYWLQRKHGVRVKRKVQALKADIDATLYEQVILEKEMGTYLGTFDDYLELFLQFGYVSLFSCVYPLAAAFAVLNNFTEVNSDALKMCRVFKRPFSEPSANIGVWQLAFETMSVISVVTNCALIGMSPQVNAVFPESKADLILIVVAVEHALLALKFILAFAIPDKPRHIQMKLARLEFESLEALKQQQMKLVTENLKEEPMESGKEKAT |
| 6772 | sp|Q99MK8|ARBK1\_MOUSE | MADLEAVLADVSYLMAMEKSKATPAARASKKILLPEPSIRSVMQKYLEDRGEVTFEKIFSQKLGYLLFRDFCLNHLEEAKPLVEFYEEIKKYEKLETEEERVVRSREIFDSYIMKELLACSHPFSKNATEHVQGHLVKKQVPPDLFQPYIEEICQNLRGDVFQKFIESDKFTRFCQWKNVELNIHLTMNDFSVHRIIGRGGFGEVYGCRKADTGKMYAMKCLDKKRIKMKQGETLALNERIMLSLVSTGDCPFIVCMSYAFHTPDKLSFILDLMNGGDLHYHLSQHGVFSEADMRFYAAEIILGLEHMHNRFVVYRDLKPANILLDEHGHVRISDLGLACDFSKKRPHASVGTHGYMAPEVLQKGVAYDSSADWFSLGCMLFKLLRGHSPFRQHKTKDKHEIDRMTLTMAVELPDSFSPELRSLLEGLLQRDVNRRLGCLGRGAQEVKESPFFRSLDWQMVFLQKYPPPLIPPRGEVNAADAFDIGSFDEEDTKGIKLLDSDQELYRNFPLTISERWQQEVAETVFDTINAETDRLEARKKAKNKQLGHEEDYALGKDCIVHGYMSKMGNPFLTQWQRRYFYLFPNRLEWRGEGEAPQSLLTMEEIQSVEETQIKERKCLLLKIRGGKQFVLQCDSDPELVQWKKELRDAYREAQQLVQRVPKMKNKPRSPVVELSKVPLIQRGSANGL |
| 6773 | sp|P16067|ANPRB\_RAT | MALPSLLLVVAALAGGVRPPGARNLTLAVVLPEHNLSYAWAWPRVGPAVALAVEALGRALPVDLRFVSSELDGACSEYLAPLRAVDLKLYHDPDLLLGPGCVYPAASVARFASHWHLPLLTAGAVASGFAAKNEHYRTLVRTGPSAPKLGEFVVTLHGHFNWTARAALLYLDARTDDRPHYFTIEGVFEALQGSNLSVQHQVYTREPGGPEQATHFIRANGRIVYICGPLEMLHEILLQAQRENLTNGDYVFFYLDVFGESLRAGPTRATGRPWQDNRTQEQAQALREAFQTVLVITYREPPNPEYQEFQNRLLIRAREDFGVELAPSLMNLIAGCFYDGILLYAQVLNETIQEGGTREDGLRIVEKMQGRRYHGVTGLVVMDKNNDRETDFVLWAMGDLESGDFQPAAHYSGAEKQIWWTGRPIPWVKGAPPLDNPPCAFDLDDPSCDKTPLSTLAIVALGTGITFIMFGVSSFLIFRKLMLEKELASMLWRIRWEELQFGNSDRYHKGAGSRLTLSLRGSSYGSLMTAHGKYQIFANTGHFKGNVVAIKHVNKKRIELTRQVLFELKHMRDVQFNHLTRFIGACIDPPNICIVTEYCPRGSLQDILENDSINLDWMFRYSLINDLVKGMAFLHNSIISSHGSLKSSNCVVDSRFVLKITDYGLASFRSTAEPDDSHALYAKKLWTAPELLSGNPLPTTGMQKADVYSFAIILQEIALRSGPFYLEGLDLSPKEIVQKVRNGQRPYFRPSIDRTQLNEELVLLMERCWAQDPTERPDFGQIKGFIRRFNKEGGTSILDNLLLRMEQYANNLEKLVEERTQAYLEEKRKAEALLYQILPHSVAEQLKRGETVQAEAFDSVTIYFSDIVGFTALSAESTPMQVVTLLNDLYTCFDAIIDNFDVYKVETIGDAYMVVSGLPGRNGQRHAPEIARMALALLDAVSSFRIRHRPHDQLRLRIGVHTGPVCAGVVGLKMPRYCLFGDTVNTASRMESNGQALKIHVSSTTKDALDELGCFQLELRGDVEMKGKGKMRTYWLLGERKGPPGLL |
| 6774 | sp|P41740|ANPRC\_RAT | MRSLLLFTFSACVLLARALLAGGASSGGGDTGPGNRRREREALAAQKIEVLVLLPRDDSYLFSLARVRPAIEYALRSVEGNGTGRKLLPPGTRFQVAYEDSDCGNRALFSLVDRVAAARGAKPDLILGPVCEYAAAPVARLASHWDLPMLSAGALAAGFQHKDTEYSHLTRVAPAYAKMGEMMLALFRHHHWSRAALLYSDDKLERNCYFTLEGVHEVFQEEGLHTSAYNFDETKDLDLDDIVRYIQGSERVVIMCASGDTIRRIMLAVHRHGMTSGDYAFFNIELFNSSSYGDGSWKRGDKHDFEAKQAYSSLQTVTLLRTAKPEFEKFSMEVKSSVEKQGLNEEDYVNMFVEGFHDAILLYVLALHEVLRAGYSKKDGGKIIQQTWNRTFEGIAGQVSIDANGDRYGDFSVVAMTDTEAGTQEVIGDYFGKEGRFKMRSNVKYPWGSLKLRIDETRIVEHTNSSPCKSCGLEESAVTGIVVGALLGAGLLMAFYFFRKKYRITIERRNHQEESNIGKHRELREDSIRSHFSVA |
| 6775 | sp|Q9C0C7|AMRA1\_HUMAN | MKVVPEKNAVRILWGRERGARAMGAQRLLQELVEDKTRWMKWEGKRVELPDSPRSTFLLAFSPDRTLLASTHVNHNIYITEVKTGKCVHSLIGHRRTPWCVTFHPTISGLIASGCLDGEVRIWDLHGGSESWFTDSNNAIASLAFHPTAQLLLIATANEIHFWDWSRREPFAVVKTASEMERVRLVRFDPLGHYLLTAIVNPSNQQGDDEPEIPIDGTELSHYRQRALLQSQPVRRTPLLHNFLHMLSSRSSGIQVGEQSTVQDSATPSPPPPPPQPSTERPRTSAYIRLRQRVSYPTAECCQHLGILCLCSRCSGTRVPSLLPHQDSVPPASARATTPSFSFVQTEPFHPPEQASSTQQDQGLLNRPSAFSTVQSSTAGNTLRNLSLGPTRRSLGGPLSSHPSRYHREIAPGLTGSEWTRTVLSLNSRSEAESMPPPRTSASSVSLLSVLRQQEGGSQASVYTSATEGRGFPASGLATESDGGNGSSQNNSGSIRHELQCDLRRFFLEYDRLQELDQSLSGEAPQTQQAQEMLNNNIESERPGPSHQPTPHSSENNSNLSRGHLNRCRACHNLLTFNNDTLRWERTTPNYSSGEASSSWQVPSSFESVPSSGSQLPPLERTEGQTPSSSRLELSSSASPQEERTVGVAFNQETGHWERIYTQSSRSGTVSQEALHQDMPEESSEEDSLRRRLLESSLISLSRYDGAGSREHPIYPDPARLSPAAYYAQRMIQYLSRRDSIRQRSMRYQQNRLRSSTSSSSSDNQGPSVEGTDLEFEDFEDNGDRSRHRAPRNARMSAPSLGRFVPRRFLLPEYLPYAGIFHERGQPGLATHSSVNRVLAGAVIGDGQSAVASNIANTTYRLQWWDFTKFDLPEISNASVNVLVQNCKIYNDASCDISADGQLLAAFIPSSQRGFPDEGILAVYSLAPHNLGEMLYTKRFGPNAISVSLSPMGRYVMVGLASRRILLHPSTEHMVAQVFRLQQAHGGETSMRRVFNVLYPMPADQRRHVSINSARWLPEPGLGLAYGTNKGDLVICRPEALNSGVEYYWDQLNETVFTVHSNSRSSERPGTSRATWRTDRDMGLMNAIGLQPRNPATSVTSQGTQTLALQLQNAETQTEREVPEPGTAASGPGEGEGSEYGASGEDALSRIQRLMAEGGMTAVVQREQSTTMASMGGFGNNIIVSHRIHRSSQTGTEPGAAHTSSPQPSTSRGLLPEAGQLAERGLSPRTASWDQPGTPGREPTQPTLPSSSPVPIPVSLPSAEGPTLHCELTNNNHLLDGGSSRGDAAGPRGEPRNR |
| 6776 | sp|Q8RYC8|ARFS\_ARATH | MKAPSNGFLPSSNEGEKKPINSQLWHACAGPLVSLPPVGSLVVYFPQGHSEQVAASMQKQTDFIPNYPNLPSKLICLLHSVTLHADTETDEVYAQMTLQPVNKYDREALLASDMGLKLNRQPTEFFCKTLTASDTSTHGGFSVPRRAAEKIFPPLDFSMQPPAQEIVAKDLHDTTWTFRHIYRGQPKRHLLTTGWSVFVSTKRLFAGDSVLFVRDEKSQLMLGIRRANRQTPTLSSSVISSDSMHIGILAAAAHANANSSPFTIFFNPRASPSEFVVPLAKYNKALYAQVSLGMRFRMMFETEDCGVRRYMGTVTGISDLDPVRWKGSQWRNLQVGWDESTAGDRPSRVSIWEIEPVITPFYICPPPFFRPKYPRQPGMPDDELDMENAFKRAMPWMGEDFGMKDAQSSMFPGLSLVQWMSMQQNNPLSGSATPQLPSALSSFNLPNNFASNDPSKLLNFQSPNLSSANSQFNKPNTVNHISQQMQAQPAMVKSQQQQQQQQQQHQHQQQQLQQQQQLQMSQQQVQQQGIYNNGTIAVANQVSCQSPNQPTGFSQSQLQQQSMLPTGAKMTHQNINSMGNKGLSQMTSFAQEMQFQQQLEMHNSSQLLRNQQEQSSLHSLQQNLSQNPQQLQMQQQSSKPSPSQQLQLQLLQKLQQQQQQQSIPPVSSSLQPQLSALQQTQSHQLQQLLSSQNQQPLAHGNNSFPASTFMQPPQIQVSPQQQGQMSNKNLVAAGRSHSGHTDGEAPSCSTSPSANNTGHDNVSPTNFLSRNQQQGQAASVSASDSVFERASNPVQELYTKTESRISQGMMNMKSAGEHFRFKSAVTDQIDVSTAGTTYCPDVVGPVQQQQTFPLPSFGFDGDCQSHHPRNNLAFPGNLEAVTSDPLYSQKDFQNLVPNYGNTPRDIETELSSAAISSQSFGIPSIPFKPGCSNEVGGINDSGIMNGGGLWPNQTQRMRTYTKVQKRGSVGRSIDVTRYSGYDELRHDLARMFGIEGQLEDPLTSDWKLVYTDHENDILLVGDDPWEEFVNCVQNIKILSSVEVQQMSLDGDLAAIPTTNQACSETDSGNAWKVHYEDTSAAASFNR |
| 6777 | sp|P02647|APOA1\_HUMAN | MKAAVLTLAVLFLTGSQARHFWQQDEPPQSPWDRVKDLATVYVDVLKDSGRDYVSQFEGSALGKQLNLKLLDNWDSVTSTFSKLREQLGPVTQEFWDNLEKETEGLRQEMSKDLEEVKAKVQPYLDDFQKKWQEEMELYRQKVEPLRAELQEGARQKLHELQEKLSPLGEEMRDRARAHVDALRTHLAPYSDELRQRLAARLEALKENGGARLAEYHAKATEHLSTLSEKAKPALEDLRQGLLPVLESFKVSFLSALEEYTKKLNTQ |
| 6778 | sp|Q92688|AN32B\_HUMAN | MDMKRRIHLELRNRTPAAVRELVLDNCKSNDGKIEGLTAEFVNLEFLSLINVGLISVSNLPKLPKLKKLELSENRIFGGLDMLAEKLPNLTHLNLSGNKLKDISTLEPLKKLECLKSLDLFNCEVTNLNDYRESVFKLLPQLTYLDGYDREDQEAPDSDAEVDGVDEEEEDEEGEDEEDEDDEDGEEEEFDEEDDEDEDVEGDEDDDEVSEEEEEFGLDEEDEDEDEDEEEEEGGKGEKRKRETDDEGEDD |
| 6779 | sp|P09813|APOA2\_MOUSE | MKLLAMVALLVTICSLEGALVKRQADGPDMQSLFTQYFQSMTDYGKDLMEKAKTSEIQSQAKAYFEKTHEQLTPLVRSAGTSLVNFFSSLMNLEEKPAPAAK |
| 6780 | sp|Q43295|APK1\_ARATH | MIAAGAKSLLGLSMASPKGIFDSNSMSNSRSVVVVRACVSMDGSQTLSHNKNGSIPEVKSINGHTGQKQGPLSTVGNSTNIKWHECSVEKVDRQRLLDQKGCVIWVTGLSGSGKSTLACALNQMLYQKGKLCYILDGDNVRHGLNRDLSFKAEDRAENIRRVGEVAKLFADAGIICIASLISPYRTDRDACRSLLPEGDFVEVFMDVPLSVCEARDPKGLYKLARAGKIKGFTGIDDPYEPPLNCEISLGREGGTSPIEMAEKVVGYLDNKGYLQA |
| 6781 | sp|P27104|ANF\_HORSE | MGSFSTIMASFLLFLAFQLQGQTRANPVYGSVSNGDLMDFKNLLDRLEDKMPLEDEVMPPQVLSDQSEEERAALSPLPEVPPWTGEVNPAQRDGGALGRGSWDSSDRSALLKSKLRALLAAPRSLRRSSCFGGRMDRIGAQSGLGCNSFRYRR |
| 6782 | sp|Q01484|ANK2\_HUMAN | MMNEDAAQKSDSGEKFNGSSQRRKRPKKSDSNASFLRAARAGNLDKVVEYLKGGIDINTCNQNGLNALHLAAKEGHVGLVQELLGRGSSVDSATKKGNTALHIASLAGQAEVVKVLVKEGANINAQSQNGFTPLYMAAQENHIDVVKYLLENGANQSTATEDGFTPLAVALQQGHNQAVAILLENDTKGKVRLPALHIAARKDDTKSAALLLQNDHNADVQSKMMVNRTTESGFTPLHIAAHYGNVNVATLLLNRGAAVDFTARNGITPLHVASKRGNTNMVKLLLDRGGQIDAKTRDGLTPLHCAARSGHDQVVELLLERGAPLLARTKNGLSPLHMAAQGDHVECVKHLLQHKAPVDDVTLDYLTALHVAAHCGHYRVTKLLLDKRANPNARALNGFTPLHIACKKNRIKVMELLVKYGASIQAITESGLTPIHVAAFMGHLNIVLLLLQNGASPDVTNIRGETALHMAARAGQVEVVRCLLRNGALVDARAREEQTPLHIASRLGKTEIVQLLLQHMAHPDAATTNGYTPLHISAREGQVDVASVLLEAGAAHSLATKKGFTPLHVAAKYGSLDVAKLLLQRRAAADSAGKNGLTPLHVAAHYDNQKVALLLLEKGASPHATAKNGYTPLHIAAKKNQMQIASTLLNYGAETNIVTKQGVTPLHLASQEGHTDMVTLLLDKGANIHMSTKSGLTSLHLAAQEDKVNVADILTKHGADQDAHTKLGYTPLIVACHYGNVKMVNFLLKQGANVNAKTKNGYTPLHQAAQQGHTHIINVLLQHGAKPNATTANGNTALAIAKRLGYISVVDTLKVVTEEVTTTTTTITEKHKLNVPETMTEVLDVSDEEGDDTMTGDGGEYLRPEDLKELGDDSLPSSQFLDGMNYLRYSLEGGRSDSLRSFSSDRSHTLSHASYLRDSAVMDDSVVIPSHQVSTLAKEAERNSYRLSWGTENLDNVALSSSPIHSGFLVSFMVDARGGAMRGCRHNGLRIIIPPRKCTAPTRVTCRLVKRHRLATMPPMVEGEGLASRLIEVGPSGAQFLGKLHLPTAPPPLNEGESLVSRILQLGPPGTKFLGPVIVEIPHFAALRGKERELVVLRSENGDSWKEHFCDYTEDELNEILNGMDEVLDSPEDLEKKRICRIITRDFPQYFAVVSRIKQDSNLIGPEGGVLSSTVVPQVQAVFPEGALTKRIRVGLQAQPMHSELVKKILGNKATFSPIVTLEPRRRKFHKPITMTIPVPKASSDVMLNGFGGDAPTLRLLCSITGGTTPAQWEDITGTTPLTFVNECVSFTTNVSARFWLIDCRQIQESVTFASQVYREIICVPYMAKFVVFAKSHDPIEARLRCFCMTDDKVDKTLEQQENFAEVARSRDVEVLEGKPIYVDCFGNLVPLTKSGQHHIFSFFAFKENRLPLFVKVRDTTQEPCGRLSFMKEPKSTRGLVHQAICNLNITLPIYTKESESDQEQEEEIDMTSEKNDETESTETSVLKSHLVNEVPVLASPDLLSEVSEMKQDLIKMTAILTTDVSDKAGSIKVKELVKAAEEEPGEPFEIVERVKEDLEKVNEILRSGTCTRDESSVQSSRSERGLVEEEWVIVSDEEIEEARQKAPLEITEYPCVEVRIDKEIKGKVEKDSTGLVNYLTDDLNTCVPLPKEQLQTVQDKAGKKCEALAVGRSSEKEGKDIPPDETQSTQKQHKPSLGIKKPVRRKLKEKQKQKEEGLQASAEKAELKKGSSEESLGEDPGLAPEPLPTVKATSPLIEETPIGSIKDKVKALQKRVEDEQKGRSKLPIRVKGKEDVPKKTTHRPHPAASPSLKSERHAPGSPSPKTERHSTLSSSAKTERHPPVSPSSKTEKHSPVSPSAKTERHSPASSSSKTEKHSPVSPSTKTERHSPVSSTKTERHPPVSPSGKTDKRPPVSPSGRTEKHPPVSPGRTEKRLPVSPSGRTDKHQPVSTAGKTEKHLPVSPSGKTEKQPPVSPTSKTERIEETMSVRELMKAFQSGQDPSKHKTGLFEHKSAKQKQPQEKGKVRVEKEKGPILTQREAQKTENQTIKRGQRLPVTGTAESKRGVRVSSIGVKKEDAAGGKEKVLSHKIPEPVQSVPEEESHRESEVPKEKMADEQGDMDLQISPDRKTSTDFSEVIKQELEDNDKYQQFRLSEETEKAQLHLDQVLTSPFNTTFPLDYMKDEFLPALSLQSGALDGSSESLKNEGVAGSPCGSLMEGTPQISSEESYKHEGLAETPETSPESLSFSPKKSEEQTGETKESTKTETTTEIRSEKEHPTTKDITGGSEERGATVTEDSETSTESFQKEATLGSPKDTSPKRQDDCTGSCSVALAKETPTGLTEEAACDEGQRTFGSSAHKTQTDSEVQESTATSDETKALPLPEASVKTDTGTESKPQGVIRSPQGLELALPSRDSEVLSAVADDSLAVSHKDSLEASPVLEDNSSHKTPDSLEPSPLKESPCRDSLESSPVEPKMKAGIFPSHFPLPAAVAKTELLTEVASVRSRLLRDPDGSAEDDSLEQTSLMESSGKSPLSPDTPSSEEVSYEVTPKTTDVSTPKPAVIHECAEEDDSENGEKKRFTPEEEMFKMVTKIKMFDELEQEAKQKRDYKKEPKQEESSSSSDPDADCSVDVDEPKHTGSGEDESGVPVLVTSESRKVSSSSESEPELAQLKKGADSGLLPEPVIRVQPPSPLPSSMDSNSSPEEVQFQPVVSKQYTFKMNEDTQEEPGKSEEEKDSESHLAEDRHAVSTEAEDRSYDKLNRDTDQPKICDGHGCEAMSPSSSAAPVSSGLQSPTGDDVDEQPVIYKESLALQGTHEKDTEGEELDVSRAESPQADCPSESFSSSSSLPHCLVSEGKELDEDISATSSIQKTEVTKTDETFENLPKDCPSQDSSITTQTDRFSMDVPVSDLAENDEIYDPQITSPYENVPSQSFFSSEESKTQTDANHTTSFHSSEVYSVTITSPVEDVVVASSSSGTVLSKESNFEGQDIKMESQQESTLWEMQSDSVSSSFEPTMSATTTVVGEQISKVIITKTDVDSDSWSEIREDDEAFEARVKEEEQKIFGLMVDRQSQGTTPDTTPARTPTEEGTPTSEQNPFLFQEGKLFEMTRSGAIDMTKRSYADESFHFFQIGQESREETLSEDVKEGATGADPLPLETSAESLALSESKETVDDEADLLPDDVSEEVEEIPASDAQLNSQMGISASTETPTKEAVSVGTKDLPTVQTGDIPPLSGVKQISCPDSSEPAVQVQLDFSTLTRSVYSDRGDDSPDSSPEEQKSVIEIPTAPMENVPFTESKSKIPVRTMPTSTPAPPSAEYESSVSEDFLSSVDEENKADEAKPKSKLPVKVPLQRVEQQLSDLDTSVQKTVAPQGQDMASIAPDNRSKSESDASSLDSKTKCPVKTRSYTETETESRERAEELELESEEGATRPKILTSRLPVKSRSTTSSCRGGTSPTKESKEHFFDLYRNSIEFFEEISDEASKLVDRLTQSEREQEIVSDDESSSALEVSVIENLPPVETEHSVPEDIFDTRPIWDESIETLIERIPDENGHDHAEDPQDEQERIEERLAYIADHLGFSWTELARELDFTEEQIHQIRIENPNSLQDQSHALLKYWLERDGKHATDTNLVECLTKINRMDIVHLMETNTEPLQERISHSYAEIEQTITLDHSEGFSVLQEELCTAQHKQKEEQAVSKESETCDHPPIVSEEDISVGYSTFQDGVPKTEGDSSATALFPQTHKEQVQQDFSGKMQDLPEESSLEYQQEYFVTTPGTETSETQKAMIVPSSPSKTPEEVSTPAEEEKLYLQTPTSSERGGSPIIQEPEEPSEHREESSPRKTSLVIVESADNQPETCERLDEDAAFEKGDDMPEIPPETVTEEEYIDEHGHTVVKKVTRKIIRRYVSSEGTEKEEIMVQGMPQEPVNIEEGDGYSKVIKRVVLKSDTEQSEDNNE |
| 6783 | sp|Q7Z3C6|ATG9A\_HUMAN | MAQFDTEYQRLEASYSDSPPGEEDLLVHVAEGSKSPWHHIENLDLFFSRVYNLHQKNGFTCMLIGEIFELMQFLFVVAFTTFLVSCVDYDILFANKMVNHSLHPTEPVKVTLPDAFLPAQVCSARIQENGSLITILVIAGVFWIHRLIKFIYNICCYWEIHSFYLHALRIPMSALPYCTWQEVQARIVQTQKEHQICIHKRELTELDIYHRILRFQNYMVALVNKSLLPLRFRLPGLGEAVFFTRGLKYNFELILFWGPGSLFLNEWSLKAEYKRGGQRLELAQRLSNRILWIGIANFLLCPLILIWQILYAFFSYAEVLKREPGALGARCWSLYGRCYLRHFNELEHELQSRLNRGYKPASKYMNCFLSPLLTLLAKNGAFFAGSILAVLIALTIYDEDVLAVEHVLTTVTLLGVTVTVCRSFIPDQHMVFCPEQLLRVILAHIHYMPDHWQGNAHRSQTRDEFAQLFQYKAVFILEELLSPIVTPLILIFCLRPRALEIIDFFRNFTVEVVGVGDTCSFAQMDVRQHGHPQWLSAGQTEASVYQQAEDGKTELSLMHFAITNPGWQPPRESTAFLGFLKEQVQRDGAAASLAQGGLLPENALFTSIQSLQSESEPLSLIANVVAGSSCRGPPLPRDLQGSRHRAEVASALRSFSPLQPGQAPTGRAHSTMTGSGVDARTASSGSSVWEGQLQSLVLSEYASTEMSLHALYMHQLHKQQAQAEPERHVWHRRESDESGESAPDEGGEGARAPQSIPRSASYPCAAPRPGAPETTALHGGFQRRYGGITDPGTVPRVPSHFSRLPLGGWAEDGQSASRHPEPVPEEGSEDELPPQVHKV |
| 6784 | sp|O35298|AOAH\_MOUSE | MKFPWKVFKTTLLLLLLSHSLASVPSEDQPGDSYSHGQSCLGCVVLVSVIEQLAEVHNSSVQVAMERLCSYLPEKLFLKTACYFLVQTFGSDIIKLLDEAMKADVVCYALEFCKRGAVQPQCHLYPLPQEAWESALEKARQVLRRSSTMKYPRSGRNICSLPFLTKICQKIELSIKKAVPFKDIDSDKHSVFPTLRGYHWRGRDCNDSDKTVYPGRRPDNWDIHQDSNCNGIWGIDPKDGIPYEKKFCEGSQPRGIILLGDSAGAHFHIPPEWLTASQMSVNSFLNLPSALTDELNWPQLSGVTGFLDSTSGIEEKSIYHRLRKRNHCNHRDYQSISKNGASSRNLKNFIESLSRNQASDHPAIVLYAMIGNDVCNSKADTVPEMTTPEQMYANVMQTLTHLNSHLPNGSHVILYGLPDGTFLWDSLHNRYHPLGQLNKDVTYAQFFSFLRCLQLNPCNGWMSSNKTLRTLTSERAEQLSNTLKKIATTETFANFDLFYVDFAFHEIIEDWQKRGGQPWQLIEPVDGFHPNEVASLLQANRVWEKIQLQWPHVLGKENPFNSQIEEVFGDQGGH |
| 6785 | sp|Q9NVP2|ASF1B\_HUMAN | MAKVSVLNVAVLENPSPFHSPFRFEISFECSEALADDLEWKIIYVGSAESEEFDQILDSVLVGPVPAGRHMFVFQADAPNPSLIPETDAVGVTVVLITCTYHGQEFIRVGYYVNNEYLNPELRENPPMKPDFSQLQRNILASNPRVTRFHINWDNNMDRLEAIETQDPSLGCGLPLNCTPIKGLGLPGCIPGLLPENSMDCI |
| 6786 | sp|Q86WG3|ATCAY\_HUMAN | MGTTEATLRMENVDVKEEWQDEDLPRPLPEETGVELLGSPVEDTSSPPNTLNFNGAHRKRKTLVAPEINISLDQSEGSLLSDDFLDTPDDLDINVDDIETPDETDSLEFLGNGNELEWEDDTPVATAKNMPGDSADLFGDGTTEDGSAANGRLWRTVIIGEQEHRIDLHMIRPYMKVVTHGGYYGEGLNAIIVFAACFLPDSSLPDYHYIMENLFLYVISSLELLVAEDYMIVYLNGATPRRRMPGIGWLKKCYQMIDRRLRKNLKSLIIVHPSWFIRTVLAISRPFISVKFINKIQYVHSLEDLEQLIPMEHVQIPDCVLQYEEERLKARRESARPQPEFVLPRSEEKPEVAPVENRSALVSEDQETSMS |
| 6787 | sp|P14094|AT1B1\_MOUSE | MARGKAKEEGSWKKFIWNSEKKEFLGRTGGSWFKILLFYVIFYGCLAGIFIGTIQVMLLTISELKPTYQDRVAPPGLTQIPQIQKTEISFRPNDPKSYEAYVLNIIRFLEKYKDSAQKDDMIFEDCGNVPSEPKERGDINHERGERKVCRFKLDWLGNCSGLNDDSYGYREGKPCIIIKLNRVLGFKPKPPKNESLETYPLMMKYNPNVLPVQCTGKRDEDKDKVGNIEYFGMGGYYGFPLQYYPYYGKLLQPKYLQPLLAVQFTNLTVDTEIRVECKAYGENIGYSEKDRFQGRFDVKIEIKS |
| 6788 | sp|Q6DD88|ATLA3\_HUMAN | MLSPQRVAAAASRGADDAMESSKPGPVQVVLVQKDQHSFELDEKALASILLQDHIRDLDVVVVSVAGAFRKGKSFILDFMLRYLYSQKESGHSNWLGDPEEPLTGFSWRGGSDPETTGIQIWSEVFTVEKPGGKKVAVVLMDTQGAFDSQSTVKDCATIFALSTMTSSVQIYNLSQNIQEDDLQQLQLFTEYGRLAMDEIFQKPFQTLMFLVRDWSFPYEYSYGLQGGMAFLDKRLQVKEHQHEEIQNVRNHIHSCFSDVTCFLLPHPGLQVATSPDFDGKLKDIAGEFKEQLQALIPYVLNPSKLMEKEINGSKVTCRGLLEYFKAYIKIYQGEDLPHPKSMLQATAEANNLAAAASAKDIYYNNMEEVCGGEKPYLSPDILEEKHCEFKQLALDHFKKTKKMGGKDFSFRYQQELEEEIKELYENFCKHNGSKNVFSTFRTPAVLFTGIVALYIASGLTGFIGLEVVAQLFNCMVGLLLIALLTWGYIRYSGQYRELGGAIDFGAAYVLEQASSHIGNSTQATVRDAVVGRPSMDKKAQ |
| 6789 | sp|Q63540|ATX1\_RAT | MKSNQERSNECLPPKKREIPATSRPSEEKATALPSDNHCVEGVAWLPSTPGSRGHGGGRHGPAGTSGEHGLQGMGLHKALSAGLDYSPPSAPRSVPTANTLPTVYPPPQSGTPVSPVQYAHLSHTFQFIGSSQYSGPYAGFIPSQLISPPGNPVTSAVASAAGATTPSQRSQLEAYSTLLANMGSLSQAPGHKVEPPPQQHLGRAAGLVNPGSPPPTQQNQYIHISSSPQSSGRATSPPIPVHLHPHQTMIPHTLTLGPSSQVVVQYSDAGGHFVPRESTKKAESSRLQQAMQAKEVLNGEMEKSRRYGASSSVELSLGKTSSKSVPHPYESRHVVVHPSPADYSSRDTSGVRGSVMVLPNSSTPSADLETQQATHREASPSTLNDKSGLHLGKPGHRSYALSPHTVIQTTHSASEPLPVGLPATAFYAGAQPPVIGYLSSQQQAITYAGGLPQHLVIPGTQPLLIPVGSPDMDTPGAASAIVTSSPQFAAVPHTFVTTALPKSENFNPEALVTQAAYPAMVQAQIHLPVVQSVASPAAASPTLPPYFMKGSIIQLANGELKKVEDLKTEDFIQSAEISNDLKIDSSTVERIEDSHSPGVAVIQFAVGEHRAQVSVEVLVEYPFFVFGQGWSSCCPERTSQLFDLPCSKLSVGDVCISLTLKNLKNGSVKKGQPVDPASALLKHAKTDSLAGSRHRYAEQENGINQGSAQVLSENGELKFPEKIGLPAAPFLTKIEPSKPTATRKRRWSAPETRKLEKSEDEPPLTLPKPSLIPQEVKICIEGRSNVGK |
| 6790 | sp|Q12983|BNIP3\_HUMAN | MGDAAADPPGPALPCEFLRPGCGAPLSPGAQLGRGAPTSAFPPPAAEAHPAARRGLRSPQLPSGAMSQNGAPGMQEESLQGSWVELHFSNNGNGGSVPASVSIYNGDMEKILLDAQHESGRSSSKSSHCDSPPRSQTPQDTNRASETDTHSIGEKNSSQSEEDDIERRKEVESILKKNSDWIWDWSSRPENIPPKEFLFKHPKRTATLSMRNTSVMKKGGIFSAEFLKVFLPSLLLSHLLAIGLGIYIGRRLTTSTSTF |
| 6791 | sp|Q04679|ATNG\_RAT | MTELSANHGGSAKGTENPFEYDYETVRKGGLIFAGLAFVVGLLILLSKRFRCGGSKKHRQVNEDEL |
| 6792 | sp|P38649|BGAT\_MOUSE | MNLRGRPKCNFLHLGILPFAVFVLVFFGYLFLSFRSQNLGHPGAVTRNAYLQPRVLKPTRKDVLVLTPWLAPIIWEGTFNIDILNEQFRIRNTTIGLTVFAIKKYVVFLKLFLETAEQHFMVGHKVIYYVFTDRPADVPQVILGAGRQLVVLTVRNYTRWQDVSMHRMEMISHFSERRFLREVDYLVCADADMKFSDHVGVEILSTFFGTLHPGFYSSSREAFTYERRPQSQAYIPWDRGDFYYGGAFFGGSVLEVYHLTKACHEAMMEDKANGIEPVWHDESYLNKYLLYHKPTKVLSPEYLWDQQLLGWPSIMKKLRYVAVPKDHQAIRN |
| 6793 | sp|P25910|BLAB\_BACFG | MKTVFILISMLFPVAVMAQKSVKISDDISITQLSDKVYTYVSLAEIEGWGMVPSNGMIVINNHQAALLDTPINDAQTEMLVNWVTDSLHAKVTTFIPNHWHGDCIGGLGYLQRKGVQSYANQMTIDLAKEKGLPVPEHGFTDSLTVSLDGMPLQCYYLGGGHATDNIVVWLPTENILFGGCMLKDNQATSIGNISDADVTAWPKTLDKVKAKFPSARYVVPGHGDYGGTELIEHTKQIVNQYIESTSKP |
| 6794 | sp|Q95NH6|ATTC\_DROME | MSKIVLLIVVIVGVLGSLAVALPQRPYTQPLIYYPPPPTPPRIYRARRQVLGGSLTSNPSGGADARLDLSKAVGTPDHHVIGQVFAAGNTQTKPVSTPVTSGATLGYNNHGHGLELTKTHTPGVRDSFQQTATANLFNNGVHNLDAKAFASQNQLANGFKFDRNGAALDYSHIKGHGATLTHANIPGLGKQLELGGRANLWQSQDRNTRLDLGSTASKWTSGPFKGQTDLGANLGLSHYFG |
| 6795 | sp|O64879|BGL15\_ARATH | MRGNYLSLLVVLIVLASNDVLANNNSSTPKLRRSDFPEDFIFGSATSAYQVEGGAHEDGRGPSIWDTFSEKYPEKIKDGSNGSVADNSYHLYKEDVALLHQIGFNAYRFSISWSRILPRGNLKGGINQAGIDYYNNLINELLSKGIKPFATMFHWDTPQALEDAYGGFRGAEIVNDFRDYADICFKNFGDRVKHWMTLNEPLTVVQQGYVAGVMAPGRCSKFTNPNCTDGNGATEPYIVGHNLILSHGAAVQVYREKYKASQQGQVGIALNAGWNLPYTESPKDRLAAARAMAFTFDYFMEPLVTGKYPVDMVNNVKGRLPIFTAQQSKMLKGSYDFIGINYYSSTYAKDVPCSTKDVTMFSDPCASVTGERDGVPIGPKAASDWLLIYPKGIRDLVLYAKYKFKDPVMYITENGRDEFSTNKIFLKDGDRIDYYARHLEMVQDAISVGANVKGFFAWSLLDNFEWAMGYTVRFGLVYVDFKDGCKRYPKKSAEWFRKLLNEKKND |
| 6796 | sp|P82251|BAT1\_HUMAN | MGDTGLRKRREDEKSIQSQEPKTTSLQKELGLISGISIIVGTIIGSGIFVSPKSVLSNTEAVGPCLIIWAACGVLATLGALCFAELGTMITKSGGEYPYLMEAYGPIPAYLFSWASLIVIKPTSFAIICLSFSEYVCAPFYVGCKPPQIVVKCLAAAAILFISTVNSLSVRLGSYVQNIFTAAKLVIVAIIIISGLVLLAQGNTKNFDNSFEGAQLSVGAISLAFYNGLWAYDGWNQLNYITEELRNPYRNLPLAIIIGIPLVTACYILMNVSYFTVMTATELLQSQAVAVTFGDRVLYPASWIVPLFVAFSTIGAANGTCFTAGRLIYVAGREGHMLKVLSYISVRRLTPAPAIIFYGIIATIYIIPGDINSLVNYFSFAAWLFYGLTILGLIVMRFTRKELERPIKVPVVIPVLMTLISVFLVLAPIISKPTWEYLYCVLFILSGLLFYFLFVHYKFGWAQKISKPITMHLQMLMEVVPPEEDPE |
| 6797 | sp|Q8R015|BL1S5\_MOUSE | MSGGGTETPVACDAAQGGKKRDSLGTPGAAHLIIKDLGEIHSRLLDHRPVTQGEIRYFVKEFEEKRGLRELRVLKNLENTIQETNECLLPKCRETMECGLGETLQRLQAANDSICRLQQREQERKKVINDYLTASEKRRLVQWEEFVSGQPQRRAEVDEEHRRAVERLREQYAAMEKDLAKFSTF |
| 6798 | sp|C7C422|BLAN1\_KLEPN | MELPNIMHPVAKLSTALAAALMLSGCMPGEIRPTIGQQMETGDQRFGDLVFRQLAPNVWQHTSYLDMPGFGAVASNGLIVRDGGRVLVVDTAWTDDQTAQILNWIKQEINLPVALAVVTHAHQDKMGGMDALHAAGIATYANALSNQLAPQEGMVAAQHSLTFAANGWVEPATAPNFGPLKVFYPGPGHTSDNITVGIDGTDIAFGGCLIKDSKAKSLGNLGDADTEHYAASARAFGAAFPKASMIVMSHSAPDSRAAITHTARMADKLR |
| 6799 | sp|Q64277|BST1\_MOUSE | MAVQGGLLSLWLWLWLSLLTVLLGARARWRGEGTTPHLQSIFLGRCAEYTTLLSLGNKNCTAIWEAFKGVLDKDPCSVLPSDYDLFINLSRHPIPRDKSLFWENNHLLVMSYGENTRRLVALCDVLYGKVGDFLSWCRQENASGLDYQSCPTSEDCENNAVDSYWKSASMQYSRDSSGVINVMLNGSEPKGAYPTRGFFADFEIPYLQKDKVTRIEIWVMHDVGGPNVESCGEGSVKILEDRLEALGFQHSCINDYRPVKFLMCVDHSTHPDCIMNSASASMRRESASLHAIGDASLLISLLVALASSSQA |
| 6800 | sp|Q05438|BMR1B\_CHICK | MPLLSSSKLSMESRKEDSEGTAPAPPQKKLSCQCHHHCPEDSVNSTCSTDGYCFTIIEEDDSGGHLVTKGCLGLEGSDFQCRDTPIPHQRRSIECCTGQDYCNKHLHPTLPPLKNRDFAEGNIHHKALLISVTVCSILLVLIIIFCYFRYKRQEARPRYSIGLEQDETYIPPGESLKDLIEQSQSSGSGSGLPLLVQRTIAKQIQMVKQIGKGRYGEVWMGKWRGEKVAVKVFFTTEEASWFRETEIYQTVLMRHENILGFIAADIKGTGSWTQLYLITDYHENGSLYDYLKSTTLDTKGMLKLAYSSVSGLCHLHTGIFSTQGKPAIAHRDLKSKNILVKKNGTCCIADLGLAVKFISDTNEVDIPPNTRVGTKRYMPPEVLDESLNRNHFQSYIMADMYSFGLILWEIARRCVSGGIVEEYQLPYHDLVPSDPSYEDMREIVCIKRLRPSFPNRWSSDECLRQMGKLMMECWAHNPASRLTALRVKKTLAKMSESQDIKL |
| 6801 | sp|Q01295|BRC1\_DROME | MDDTQHFCLRWNNYQSSITSAFENLRDDEAFVDVTLACEGRSIKAHRVVLSACSPYFRELLKSTPCKHPVILLQDVNFMDLHALVEFIYHGEVNVHQKSLQSFLKTAEVLRVSGLTQQQAEDTHSHLAQIQNLANSGGRTPLNTHTQSLPHPHHGSLHDDGGSSTLFSRQGAGSPPPTAVPSLPSHINNQLLKRMAMMHRSSAAAAAEETSHAFKRLRGSDNSLPLSGAVGSGSNNNSPDLPPLHARSASPQQTPADFSTIKHHNNNNTPPLKEEKRNGPTGNGNSGNGNGNGNGASNGNGISISDKLGSLTPSPLARAGADDVKSEPMDMVCSNNNANANDEHSNDSTGEHDANRSSSGDGGKGSLSSGNDEEIGDGLASHHAAPQFIMSPAENKMFHAAAFNFPNIDPSALLGLNTQLQQSGDLAVSPQGKLTTNATTTTTTINNSITNNNNNNNNNNYDYSLPTKNSNSQKTPSPTTTTLTTPTTTTPTRPTAITSASGICGLNLSTFAANGSSSGGSNGGLSMTALLPQQQQQQQQQHQMSQQQQQQQQQQQQQGNSSSGQQQQPNGILACSTPKANTPTTTQQQMYAAVMAAAASASASTSGSANSSLNNSNSTLNTSGGLNNSASGGDDFRCNPCNKNLSSLTRLKRHIQNVHMRPTKEPVCNICKRVYSSLNSLRNHKSIYHRNLKQPKQEPGVGATQAAANSFYHQQHQQQQLNHHSSS |
| 6802 | sp|P35817|BDF1\_YEAST | MTDITPVQNDVDVNGNNVNDDVSSNLKRPIDQGDPSNGLAEEENPANNQLHLKKARLDGDALTSSPAGLAENGIEGATLAANGENGYNATGSGAEDEQQGLKKEEGGQGTKQEDLDENSKQELPMEVPKEPAPAPPPEPDMNNLPQNPIPKHQQKHALLAIKAVKRLKDARPFLQPVDPVKLDIPFYFNYIKRPMDLSTIERKLNVGAYEVPEQITEDFNLMVNNSIKFNGPNAGISQMARNIQASFEKHMLNMPAKDAPPVIAKGRRSSAQEDAPIVIRRAQTHNGRPKRTIHPPKSKDIYPYESKKPKSKRLQQAMKFCQSVLKELMAKKHASYNYPFLEPVDPVSMNLPTYFDYVKEPMDLGTIAKKLNDWQYQTMEDFERDVRLVFKNCYTFNPDGTIVNMMGHRLEEVFNSKWADRPNLDDYDSDEDSRTQGDYDDYESEYSESDIDETIITNPAIQYLEEQLARMKVELQQLKKQELEKIRKERRLARGSKKRGKRSKGRSGSKNASSKGRRDKKNKLKTVVTYDMKRIITERINDLPTSKLERAIDIIKKSMPNISEDDEVELDLDTLDNHTILTLYNTFFRQYESSSGASNGLDGTSGVTRDASSLSPTSAGSRKRRSKALSQEEQSRQIEKIKNKLAILDSASPLSQNGSPGQIQSAAHNGFSSSSDDDVSSESEEE |
| 6803 | sp|P25385|BOS1\_YEAST | MNALYNHAVKQKNQLQQELARFEKNSVTAPISLQGSISATLVSLEKTVKQYAEHLNRYKEDTNAEEIDPKFANRLATLTQDLHDFTAKFKDLKQSYNENNSRTQLFGSGASHVMDSDNPFSTSETIMNKRNVGGASANGKEGSSNGGGLPLYQGLQKEQSVFERGNAQLDYILEMGQQSFENIVEQNKILSKVQDRMSNGLRTLGVSEQTITSINKRVFKDKLVFWIALILLIIGIYYVLKWLR |
| 6804 | sp|Q6J6I9|BRCA1\_MACMU | MDLSAVRVEEVQNVINAMQKILECPICLELIKEPVSTKCDHIFCRFCMLKLLNQKKGPSQCPLCKNDITKRSLQESTRFSQLVEELLKIIHAFQLDTGLQFANSYNFAKKENHSPEHLKDEVSIIQSMGYRNRAKRLLQSEPENPSLQETSLSVPLSNLGIVRTLRTKQQIQPQKKSVYIELGSDSSEDTVNKATYCSVGDQELLQITPQGTRDETSLDSAKKAACEFSEKDITNTEHHQSSNNDLNTTEKHATERHPEKYQGSSVSNLHVEPCGTNTHASSLQHENSLLLTKDRMNVEKAEFCNKSKQPGLARSQHNRWTGSKETCNDRQTPSTEKKVDLNANALYERKEWNKQKLPCSENPRDAEDVPWITLNSSIQKVNEWFSRSDELLSSDDSHDGGSESNAKVADVLDVLNEVDEYSGSSEKIDLLASDPHEPLICKSERVHSSSVESNIKDKIFGKTYRRKANLPNLSHVTENLIIGALVTESQIMQERPLTNKLKRKRRTTSGLHPEDFIKKADLAVQKTPEIINQGTNQMEQNGQVMNITNSAHENKTKGDSIQNEKNPNAIESLEEESAFKTKAEPISSSINNMELELNIHNSKAPKKNRLRRKSSTRHIHALELVVSRNLSPPNCTELQIDSCSSSEEIKKKNYNQMPVRHSRNLQLMEDKESATGAKKSNKPNEQTSKRHASDTFPELKLTKVPGSFTNCSNTSELKEFVNPSLSREEKEEKLETVKVSNNAKDPKDLMLSGERVLQTERSVESSSISLVPDTDYGTQESISLLEVSTLGKAKTERNKCMSQCAAFENPKELIHGCSEDTRNDTEGFKYPLGSEVNHSQETSIEIEESELDTQYLQNTFKVSKRQSFALFSNPGNPEEECATFSAHSRSLKKQSPKVTSECEQKEENQGKKESNIKPVQTVNITAGFSVVCQKDKPVDNAKCSIKGGSRFCLSSQFRGNETGLITPNKHGLLQNPYHIPPLFPVKSFVKTKCNKNLLEENSEEHSVSPERAVGNENIIPSTVSTISHNNIRENAFKEASSSNINEVGSSTNEVGSSINEVGPSDENIQAELGRNRGPKLNAVLRLGLLQPEVCKQSLPISNCKHPEIKKQEHEELVQTVNTDFSPCLISDNLEQPMGSSHASEVCSETPDDLLDDGEIKEDTSFAANDIKESSAVFSKSIQRGELSRSPSPFTHTHLAQGYQKEAKKLESSEENLSSEDEELPCFQHLLFGKVSNIPSQTTRHSTVATECLSKNTEENLLSLKNSLTDCSNQVILAKASQEHHLSEETKCSGSLFSSQCSELEDLTANTNTQDPFLIGSSKRMRHQSESQGVGLSDKELVSDDEERGTGLEEDNQEEQSVDSNLGEAASGYESETSVSEDCSRLSSQSEILTTQQRDTMQDNLIKLQQEMAELEAVLEQHGSQPSNSYPSIITDSSALEDLRNPEQSTSEKAVLTSQKSSEYPINQNPEGLSADKFEVSADSSTSKNKEPGVERSSPSKCQSLEDRWYVHSSSGSLQNGNYPSQEELIKVVDVETQQLEKSGPHDLMEPSYLPRQDLDGTPYLESGISLFSDDPESDPSEDRAPESAHVGSIPSSTSALKVPQWQVAESAQSPAAAHNTNTAGYNAMEESVSRENPKLTASTERVNKRMSLVVSGLTPEEFMLVYKFARRYHIALTNLISEETTHVVMKTDAEFVCERTLKYFLGIAGGKWVVSYFWVTQSIKERKMLNEHDFEVRGDVVNGRNHQGPKRARESPDRKIFRGLEICCYGPFTNMPTDQLEWMVQLCGASVVKELSSFTLGTGFHPIVVVQPDAWTEDNGFHAIGQMCEAPVVTREWVLDSVALYQCQELDTYLIPQIPHSHY |
| 6805 | sp|Q16520|BATF\_HUMAN | MPHSSDSSDSSFSRSPPPGKQDSSDDVRRVQRREKNRIAAQKSRQRQTQKADTLHLESEDLEKQNAALRKEIKQLTEELKYFTSVLNSHEPLCSVLAASTPSPPEVVYSAHAFHQPHVSSPRFQP |
| 6806 | sp|Q9H0E9|BRD8\_HUMAN | MATGTGKHKLLSTGPTEPWSIREKLCLASSVMRSGDQNWVSVSRAIKPFAEPGRPPDWFSQKHCASQYSELLETTETPKRKRGEKGEVVETVEDVIVRKLTAERVEELKKVIKETQERYRRLKRDAELIQAGHMDSRLDELCNDIATKKKLEEEEAEVKRKATDAAYQARQAVKTPPRRLPTVMVRSPIDSASPGGDYPLGDLTPTTMEEATSGVNESEMAVASGHLNSTGVLLEVGGVLPMIHGGEIQQTPNTVAASPAASGAPTLSRLLEAGPTQFTTPLASFTTVASEPPVKLVPPPVESVSQATIVMMPALPAPSSAPAVSTTESVAPVSQPDNCVPMEAVGDPHTVTVSMDSSEISMIINSIKEECFRSGVAEAPVGSKAPSIDGKEELDLAEKMDIAVSYTGEELDFETVGDIIAIIEDKVDDHPEVLDVAAVEAALSFCEENDDPQSLPGPWEHPIQQERDKPVPLPAPEMTVKQERLDFEETENKGIHELVDIREPSAEIKVEPAEPEPVISGAEIVAGVVPATSMEPPELRSQDLDEELGSTAAGEIVEADVAIGKGDETPLTNVKTEASPESMLSPSHGSNPIEDPLEAETQHKFEMSDSLKEESGTIFGSQIKDAPGEDEEEDGVSEAASLEEPKEEDQGEGYLSEMDNEPPVSESDDGFSIHNATLQSHTLADSIPSSPASSQFSVCSEDQEAIQAQKIWKKAIMLVWRAAANHRYANVFLQPVTDDIAPGYHSIVQRPMDLSTIKKNIENGLIRSTAEFQRDIMLMFQNAVMYNSSDHDVYHMAVEMQRDVLEQIQQFLATQLIMQTSESGISAKSLRGRDSTRKQDASEKDSVPMGSPAFLLSLFMGHEWVWLDSEQDHPNDSELSNDCRSLFSSWDSSLDLDVGNWRETEDPEAEELEESSPEREPSELLVGDGGSEESQEAARKASHQNLLHFLSEVAYLMEPLCISSNESSEGCCPPSGTRQEGREIKASEGERELCRETEELSAKGDPLVAEKPLGENGKPEVASAPSVICTVQGLLTESEEGEAQQESKGEDQGEVYVSEMEDQPPSGECDDAFNIKETPLVDTLFSHATSSKLTDLSQDDPVQDHLLFKKTLLPVWKMIASHRFSSPFLKPVSERQAPGYKDVVKRPMDLTSLKRNLSKGRIRTMAQFLRDLMLMFQNAVMYNDSDHHVYHMAVEMRQEVLEQIQVLNIWLDKRKGSSSLEGEPANPVDDGKPVF |
| 6807 | sp|Q91Y44|BRDT\_MOUSE | MSLPSRQTAIVNPPPPEYINTKKSGRLTNQLQFLQRVVLKALWKHGFSWPFQQPVDAVKLKLPDYYTIIKTPMDLNTIKKRLENKYYEKASECIEDFNTMFSNCYLYNKTGDDIVVMAQALEKLFMQKLSQMPQEEQVVGGKERIKKDIQQKIAVSSAKEQIPSKAAENVFKRQEIPSGLPDISLSPLNMAQEAPPICDSQSLVQITKGVKRRADTTTPTTSIAKASSESPPTLRETKPVNMPVKENTVKNVLPDSQQQHKVLKTVKVTEQLKHCSEILKEMLAKKHLPYAWPFYNPVDADALGLHNYYDVVKNPMDLGTIKGKMDNQEYKDAYEFAADVRLMFMNCYKYNPPDHEVVAMARTLQDVFELHFAKIPDEPIESMHACHLTTNSAQALSRESSSEASSGDASSEDSEDERVQHLAKLQEQLNAVHQQLQVLSQVPLRKLKKKNEKSKRAPKRKKVNNRDENPRKKPKQMKQKEKAKINQPKKKKPLLKSEEEDNAKPMNYDEKRQLSLDINKLPGDKLGRIVHIIQSREPSLRNSNPDEIEIDFETLKASTLRELEKYVLACLRKRSLKPQAKKVVRSKEELHSEKKLELERRLLDVNNQLNCRKRQTKRPAKVEKPPPPPPPPPPPPPPPELASGSRLTDSSSSSGSGSGSSSSSSGSSSSSSSSGSASSSSDSSSSDSSDSEPEIFPKFTGVKQNDLPPKENIKQIQSSVQDITSAEAPLAQQSTAPCGAPGKHSQQMLGCQVTQHLQATENTASVQTQPLSGDCKRVLLGPPVVHTSAESLTVLEPECHAPAQKDIKIKNADSWKSLGKPVKASSVLKSSDELFNQFRKAAIEKEVKARTQEQMRKHLEHNAKDPKVSQENQREPGSGLTLESLSSKVQDKSLEEDQSEQQPPSEAQDVSKLWLLKDRNLAREKEQERRRREAMAGTIDMTLQSDIMTMFENNFD |
| 6808 | sp|O94766|B3GA3\_HUMAN | MKLKLKNVFLAYFLVSIAGLLYALVQLGQPCDCLPPLRAAAEQLRQKDLRISQLQAELRRPPPAPAQPPEPEALPTIYVVTPTYARLVQKAELVRLSQTLSLVPRLHWLLVEDAEGPTPLVSGLLAASGLLFTHLVVLTPKAQRLREGEPGWVHPRGVEQRNKALDWLRGRGGAVGGEKDPPPPGTQGVVYFADDDNTYSRELFEEMRWTRGVSVWPVGLVGGLRFEGPQVQDGRVVGFHTAWEPSRPFPVDMAGFAVALPLLLDKPNAQFDSTAPRGHLESSLLSHLVDPKDLEPRAANCTRVLVWHTRTEKPKMKQEEQLQRQGRGSDPAIEV |
| 6809 | sp|O35185|BHE40\_MOUSE | MERIPSAQPPPTCLPKAPGLEHGDLSGMDFAHMYQVYKSRRGIKRSEDSKETYKLPHRLIEKKRRDRINECIAQLKDLLPEHLKLTTLGHLEKAVVLELTLKHVKALTNLIDQQQQKIIALQSGLQAGDLSGRNLEAGQEMFCSGFQTCAREVLQYLAKHENTRDLKSSQLVTHLHRVVSELLQGGASRKPLDSAPKAVDLKEKPSFLAKGSEGPGKNCVPVIQRTFAPSGGEQSGSDTDTDSGYGGELEKGDLRSEQPYFKSDHGRRFAVGERVSTIKQESEEPPTKKSRMQLSEEEGHFAGSDLMGSPFLGPHPHQPPFCLPFYLIPPSATAYLPMLEKCWYPTSVPVLYPGLNTSAAALSSFMNPDKIPTPLLLPQRLPSPLAHSSLDSSALLQALKQIPPLNLETKD |
| 6810 | sp|A1B8Z1|BHCC\_PARDP | MNAKTDFSGYEVGYDIPALPGMDESEIQTPCLILDLDALERNIRKMGDYAKAHGMRHRSHGKMHKSVDVQKLQESLGGSVGVCCQKVSEAEAFARGGIKDVLVTNEVREPAKIDRLARLPKTGATVTVCVDDVQNIADLSAAAQKHGTELGIFVEIDCGAGRCGVTTKEAVVEIAKAAAAAPNLTFKGIQAYQGAMQHMDSFEDRKAKLDAAIAQVKEAVDALEAEGLAPEFVSGGGTGSYYFESNSGIYNELQCGSYAFMDADYGRIHDAEGKRIDQGEWENALFILTSVMSHAKPHLAVVDAGLKAQSVDSGLPFVYGRDDVKYIKCSDEHGVVEDKDGVLKVNDKLRLVPGHCDPTCNVHDWYVGVRNGKVETVWPVSARGKGY |
| 6811 | sp|O54905|B3GT2\_MOUSE | MLQWRRRHCCFAKMTWSPKRSLLRTPLTGVLSLVFLFAMFLFFNHHDWLPGRPGFKENPVTYTFRGFRSTKSETNHSSLRTIWKEVAPQTLRPHTASNSSNTELSPQGVTGLQNTLSANGSIYNEKGTGHPNSYHFKYIINEPEKCQEKSPFLILLIAAEPGQIEARRAIRQTWGNETLAPGIQIIRVFLLGISIKLNGYLQHAIQEESRQYHDIIQQEYLDTYYNLTIKTLMGMNWVATYCPHTPYVMKTDSDMFVNTEYLIHKLLKPDLPPRHNYFTGYLMRGYAPNRNKDSKWYMPPDLYPSERYPVFCSGTGYVFSGDLAEKIFKVSLGIRRLHLEDVYVGICLAKLRVDPVPPPNEFVFNHWRVSYSSCKYSHLITSHQFQPSELIKYWNHLQQNKHNACANAAKEKAGRYRHRKLH |
| 6812 | sp|Q6PGQ7|BORA\_HUMAN | MGDVKESKMQITPETPGRIPVLNPFESPSDYSNLHEQTLASPSVFKSTKLPTPGKFRWSIDQLAVINPVEIDPEDIHRQALYLSHSRIDKDVEDKRQKAIEEFFTKDVIVPSPWTDHEGKQLSQCHSSKCTNINSDSPVGKKLTIHSEKSDAACQTLLSLPVDFNLENILGDYFRADEFADQSPGNLSSSSLRRKLFLDGNGSISDSLPSASPGSPHSGVQTSLEMFYSIDLSPVKCRSPLQTPSSGQFSSSPIQASAKKYSLGSITSPSPISSPTFSPIEFQIGETPLSEQRKFTVHSPDASSGTNSNGITNPCIRSPYIDGCSPIKNWSPMRLQMYSGGTQYRTSVIQIPFTLETQGEDEEDKENIPSTDVSSPAMDAAGIHLRQFSNEASTHGTHLVVTAMSVTQNQSSASEKELALLQDVEREKDNNTVDMVDPIEIADETTWIKEPVDNGSLPMTDFVSGIAFSIENSHMCMSPLAESSVIPCESSNIQMDSGYNTQNCGSNIMDTVGAESYCKESDAQTCEVESKSQAFNMKQDHTTQRCWMKTASPFQCSSP |
| 6813 | sp|Q5VTR2|BRE1A\_HUMAN | MSGIGNKRAAGEPGTSMPPEKKAAVEDSGTTVETIKLGGVSSTEELDIRTLQTKNRKLAEMLDQRQAIEDELREHIEKLERRQATDDASLLIVNRYWSQFDENIRIILKRYDLEQGLGDLLTERKALVVPEPEPDSDSNQERKDDRERGEGQEPAFSFLATLASSSSEEMESQLQERVESSRRAVSQIVTVYDKLQEKVELLSRKLNSGDNLIVEEAVQELNSFLAQENMRLQELTDLLQEKHRTMSQEFSKLQSKVETAESRVSVLESMIDDLQWDIDKIRKREQRLNRHLAEVLERVNSKGYKVYGAGSSLYGGTITINARKFEEMNAELEENKELAQNRLCELEKLRQDFEEVTTQNEKLKVELRSAVEQVVKETPEYRCMQSQFSVLYNESLQLKAHLDEARTLLHGTRGTHQHQVELIERDEVSLHKKLRTEVIQLEDTLAQVRKEYEMLRIEFEQTLAANEQAGPINREMRHLISSLQNHNHQLKGEVLRYKRKLREAQSDLNKTRLRSGSALLQSQSSTEDPKDEPAELKPDSEDLSSQSSASKASQEDANEIKSKRDEEERERERREKEREREREREKEKEREREKQKLKESEKERDSAKDKEKGKHDDGRKKEAEIIKQLKIELKKAQESQKEMKLLLDMYRSAPKEQRDKVQLMAAEKKSKAELEDLRQRLKDLEDKEKKENKKMADEDALRKIRAVEEQIEYLQKKLAMAKQEEEALLSEMDVTGQAFEDMQEQNIRLMQQLREKDDANFKLMSERIKSNQIHKLLKEEKEELADQVLTLKTQVDAQLQVVRKLEEKEHLLQSNIGTGEKELGLRTQALEMNKRKAMEAAQLADDLKAQLELAQKKLHDFQDEIVENSVTKEKDMFNFKRAQEDISRLRRKLETTKKPDNVPKCDEILMEEIKDYKARLTCPCCNMRKKDAVLTKCFHVFCFECVKTRYDTRQRKCPKCNAAFGANDFHRIYIG |
| 6814 | sp|O24174|BADH1\_ORYSJ | MAAPSAIPRRGLFIGGGWREPSLGRRLPVVNPATEATIGDIPAATAEDVELAVSAARDAFGRDGGRHWSRAPGAVRAKYLKAIAAKIKDKKSYLALLETLDSGKPLDEAAGDMEDVAACFEYYADLAEALDGKQRAPISLPMENFESYVLKEPIGVVGLITPWNYPLLMATWKVAPALAAGCTAVLKPSELASLTCLELGGICAEIGLPPGVLNIITGLGTEAGAPLASHPHVDKIAFTGSTETGKRIMITASQMVKPVSLELGGKSPLIVFDDVDIDKAVEWAMFGCFANAGQVCSATSRLLLHEKIAKRFLDRLVAWAKSIKISDPLEEGCRLGSVVSEGQYQKIMKFISTARCEGATILYGGARPQHLKRGFFIEPTIITNVSTSMQIWREEVFGPVICVKEFRTEREAVELANDTHYGLAGAVISNDLERCERISKAIQSGIVWINCSQPCFVQAPWGGNKRSGFGRELGQWGLDNYLSVKQVTKYCSDEPYGWYRPPSKL |
| 6815 | sp|O95429|BAG4\_HUMAN | MSALRRSGYGPSDGPSYGRYYGPGGGDVPVHPPPPLYPLRPEPPQPPISWRVRGGGPAETTWLGEGGGGDGYYPSGGAWPEPGRAGGSHQEQPPYPSYNSNYWNSTARSRAPYPSTYPVRPELQGQSLNSYTNGAYGPTYPPGPGANTASYSGAYYAPGYTQTSYSTEVPSTYRSSGNSPTPVSRWIYPQQDCQTEAPPLRGQVPGYPPSQNPGMTLPHYPYGDGNRSVPQSGPTVRPQEDAWASPGAYGMGGRYPWPSSAPSAPPGNLYMTESTSPWPSSGSPQSPPSPPVQQPKDSSYPYSQSDQSMNRHNFPCSVHQYESSGTVNNDDSDLLDSQVQYSAEPQLYGNATSDHPNNQDQSSSLPEECVPSDESTPPSIKKIIHVLEKVQYLEQEVEEFVGKKTDKAYWLLEEMLTKELLELDSVETGGQDSVRQARKEAVCKIQAILEKLEKKGL |
| 6816 | sp|Q8BR07|BICD1\_MOUSE | MAAEEALKTVDQYKTEIERLTKELTETTHEKIQAAEYGLVVLEEKLTLKQQYDELEAEYDGLKQELEQLREAFGQSFSIHRKVAEDGETREETLLQESASKEAYYLNKILEMQNELKQSRAVVTNVQAENERLSAVVQELKENNEMVELQRIRMKDEIREYKFREARLLQDYTELEEENITLQKLVSTLKQNQVEYEGLKHEIKRFEEETVLLNSQLEDAIRLKEIAEHQLEEALETLKNEREQKNNLRKELSQYINLSDSHISISVDGLKFAEDGSEPNNDDKMNGHIHGPLGKLNGDYRTPTTRKGESLHPVSDLFSELNISEIQKLKQQLIQVEREKAILLANLQESQTQLEHTKGALTEQHERVHRLTEHVNAMRGLQNSKEIKAELDCEKGRNSAEEAHDYEVDINGLEILECKYRVAVTEVIDLKAEIKALKEKYNKSVENYTEEKTKYESKIQMYDEQVTNLEKTSKESGEKMAHMEKELQKMTGIANENHNTLNTAQDELVTFSEELAQLYHHVCLCNNETPNRVMLDYYRQSRVTRSGSLKGPDDPRGLLSPRLSRRGVSSPVESRTSSEPVSKENTETSKEPSPTKTPTISPVITAPPSSPVLDTSDIRKEPMNIYNLNAIIRDQIKHLQKAVDRSLQLSRQRAAARELAPMIDKDKEALMEEILKLKSLLSTKREQIATLRAVLKANKQTAEVALANLKNKYENEKAMVTETMTKLRNELKALKEDAATFSSLRAMFATRCDEYVTQLDEMQRQLAAAEDEKKTLNTLLRMAIQQKLALTQRLEDLEFDHEQSRRSKGKLGKSKIGSPKIVSSLLPPYRHSAHN |
| 6817 | sp|O09171|BHMT1\_RAT | MAPIAGKKAKRGILERLNAGEVVIGDGGFVFALEKRGYVKAGPWTPEAAVEHPEAVRQLHREFLRAGSNVMQTFTFYASEDKLENRGNYVAEKISGQKVNEAACDIARQVADEGDALVAGGVSQTPSYLSCKSETEVKKIFHQQLEVFMKKNVDFLIAEYFEHVEEAVWAVEALKTSGKPIAATMCIGPEGDLHGVSPGECAVRLVKAGAAIVGVNCHFDPSTSLQTIKLMKEGLEAARLKAYLMSHALAYHTPDCGKQGFIDLPEFPFGLEPRVATRWDIQKYAREAYNLGVRYIGGCCGFEPYHIRAIAEELAPERGFLPPASEKHGSWGSGLDMHTKPWIRARARKEYWQNLRIASGRPYNPSMSKPDAWGVTKGAAELMQQKEATTEQQLRALFEKQKFKSAQ |
| 6818 | sp|Q8VBU8|BANP\_MOUSE | MMSEQDLADVVQIAVEDLSPDHPVVLENHVVTDDDEPALKRQRLEINCQDPSIKSFLYSINQTICLRLDSIEAKLQALEATCKSLEEKLDLVTNKQHSPIQVPMVAGSPLGATQTCNKVRCVVPQTTVILNNDRQNAIVAKMEDPLSNRAPDSLENIISNAVPGRRQNTIVVKVPGQDDSHNEDGESGSEASDSVSNCGQPGSQNIGSNVTLITLNSEEDYPNGTWLGDENNPEMRVRCAIIPSDMLHISTNCRTAEKMALTLLDYLFHREVQAVSNLSGQGKHGKKQLDPLTIYGIRCHLFYKFGITESDWYRIKQSIDSKCRTAWRRKQRGQSLAVKSFSRRTPSSSSYSASETMMGTPPPTSELQQSQPQALHYALANAQQVQIHQIGEDGQVQVIPQGHLHIAQVPQGEQVQITQDSEGNLQIHHVGQDGQSWGLCQNPIPVSGDSVAQANPSQLWPLGGDTLDLPAGNEMIQVLQGAQLIAVASSDPAATGVDGSPLQGSDIQVQYVQLAPVSDHTAAAQTAEALQPTLQPDMQLEHGAIQIQ |
| 6819 | sp|Q16548|B2LA1\_HUMAN | MTDCEFGYIYRLAQDYLQCVLQIPQPGSGPSKTSRVLQNVAFSVQKEVEKNLKSCLDNVNVVSVDTARTLFNQVMEKEFEDGIINWGRIVTIFAFEGILIKKLLRQQIAPDVDTYKEISYFVAEFIMNNTGEWIRQNGGWENGFVKKFEPKSGWMTFLEVTGKICEMLSLLKQYC |
| 6820 | sp|F1LXF1|BCR\_RAT | MQMERKKSQQSAGQGLGEAPRPHYRGRSSESSCGLDGDYEDAELNPRFLKDNLINANGGNRPPWPPLEYQPYQSIYVGGMMVEGEGKSPLLRSQSTSEQEKRLTWPRRSYSPRSFEDSGGGYTPDCSSNENLTSSEEDFSSGQSSRVSPSPTTYRMFRDKSRSPSQNSQQSFDSSSPPTPQCQKRHRQCQVVVSEATIVGVRKTGQIWPSDGDSTFQGEADSSFGTPPGYGCAADQAEEQRRHQDGLPYIDDSPSSSPHLSSKGRGSPASGALEPTKASELDLEKGLEMRKWVLSGILASEETYLSHLEALLLPMKPLKAAATTSQPVLTSQQIETIFFKVPELYEIHKEFYDGLFPRVQQWSHQQRVGDLFQKLASQLGVYRAFVDNYGVAMETAEKCCQANAQFAEISENLRARSNKDVKDSTTKNSLETLLYKPVDRVTRSTLVLHDLLKHTPSSHPDHSLLQDALRISQNFLSSINEEITPRRQSMTVKKGEHRQLLKDSFMVELVEGARKLRHIFLFTDLLLCTKLKKQSGGKTQQYDCKWYIPLTDLSFQMVDELEALPNIPLVPDEELDALKIKISQIKSDIQREKRANKGSKVMERLRKKLSEQESLLLLMSPSMAFRVHSRNGKSYTFLISSDYERAEWRESIREQQKKCFKSFSLTSVELQMLTNSCVKLQTVHHIPLTINKEDDESPGLYGFLHAIVHSATGFKQSSNLYCTLEVDSFGYFVNKAKTRVYRDTTEPNWNEEFEIELEGSQTLRILCYEKCYNKMKMAKEDGESADKLMGKGQVQLDPQTLQDRDWQRTVIDMNGIEVKLSVKFTSREFSLKRMPSRKQTGVFGVKIAVVTKRERSKVPYIVRQCVEEIERRGMEEVGIYRVSGVATDIQALKAAFDVNNKDVSVMMSEMDVNAIAGTLKLYFRELPEPLFTDEFYPNFAEGIALSDPVAKESCMLNLLLSLPEANLLTFLFLLDHLKRVAEKETVNKMSLHNLATVFGPTLLRPSEKESKLPANPSQPITMTDSWSLEVMSQVQVLLYFLQLEAIPAPDSKRQSILFSTEV |
| 6821 | sp|P38041|BOB1\_YEAST | MSLEGNTLGKGAKSFPLYIAVNQYSKRMEDELNMKPGDKIKVITDDGEYNDGWYYGRNLRTKEEGLYPAVFTKRIAIEKPENLHKSPTQESGNSGVKYGNLNDSASNIGKVSSHQQENRYTSLKSTMSDIDKALEELRSGSVEQEVSKSPTRVPEVSTPQLQDEQTLIQEKTRNEENTTHDSLFSSTADLNLSSESLKNISKSNISTKSLEPSSESVRQLDLKMAKSWSPEEVTDYFSLVGFDQSTCNKFKEHQVSGKILLELELEHLKELEINSFGIRFQIFKEIRNIKSAIDSSSNKLDADYSTFAFENQAAQLMPAATVNRDEIQQQISSKCNKLSSESSDRKSSSVTTELQRPSSVVVNPNFKLHDPAEQILDMTEVPNLFADKDIFESPGRAPKPPSYPSPVQPPQSPSFNNRYTNNNARFPPQTTYPPKNKNPTVYSNGLIPNSSTSSDNSTGKFKFPAMNGHDSNSRKTTLTSATIPSINTVNTDESLPAISNISSNATSHHPNRNSVVYNNHKRTESGSSFVDLFNRISMLSPVKSSFDEEETKQPSKASRAVFDSARRKSSYGHSRDASLSEMKKHRRNSSILSFFSSKSQSNPTSPTKQTFTIDPAKMTSHSRSQSNSYSHARSQSYSHSRKHSLVTSPLKTSLSPINSKSNIALAHSETPTSSNNKEAVSQPSEGKHKHKHKHKSKHKHKNSSSKDGSSEEKSKKKLFSSTKESFVGSKEFKRSPSELTQKSTKSILPRSNAKKQQTSAFTEGIRSITAKESMQTADCSGWMSKKGTGAMGTWKQRFFTLHGTRLSYFTNTNDEKERGLIDITAHRVLPASDDDRLISLYAASLGKGKYCFKLVPPQPGSKKGLTFTEPRVHYFAVENKSEMKAWLSAIIKATIDIDTSVPVISSYATPTIPLSKAQTLLEEARLQTQLRDAEEEEGRDQFGWDDTQNKRNSNYPIEQDQFETSDYLESSAFEYPGGRL |
| 6822 | sp|Q9H4Z3|CAPAM\_HUMAN | MANENHGSPREEASLLSHSPGTSNQSQPCSPKPIRLVQDLPEELVHAGWEKCWSRRENRPYYFNRFTNQSLWEMPVLGQHDVISDPLGLNATPLPQDSSLVETPPAENKPRKRQLSEEQPSGNGVKKPKIEIPVTPTGQSVPSSPSIPGTPTLKMWGTSPEDKQQAALLRPTEVYWDLDIQTNAVIKHRGPSEVLPPHPEVELLRSQLILKLRQHYRELCQQREGIEPPRESFNRWMLERKVVDKGSDPLLPSNCEPVVSPSMFREIMNDIPIRLSRIKFREEAKRLLFKYAEAARRLIESRSASPDSRKVVKWNVEDTFSWLRKDHSASKEDYMDRLEHLRRQCGPHVSAAAKDSVEGICSKIYHISLEYVKRIREKHLAILKENNISEEVEAPEVEPRLVYCYPVRLAVSAPPMPSVEMHMENNVVCIRYKGEMVKVSRNYFSKLWLLYRYSCIDDSAFERFLPRVWCLLRRYQMMFGVGLYEGTGLQGSLPVHVFEALHRLFGVSFECFASPLNCYFRQYCSAFPDTDGYFGSRGPCLDFAPLSGSFEANPPFCEELMDAMVSHFERLLESSPEPLSFIVFIPEWREPPTPALTRMEQSRFKRHQLILPAFEHEYRSGSQHICKKEEMHYKAVHNTAVLFLQNDPGFAKWAPTPERLQELSAAYRQSGRSHSSGSSSSSSSEAKDRDSGREQGPSREPHPT |
| 6823 | sp|A5JTM5|CBADH\_PSEUC | MYEAIGHRVEDGVAEITIKLPRHRNALSVKAMQEVTDALNRAEEDDSVGAVMITGAEDAFCAGFYLREIPLDKGVAGVRDHFRIGALWWHQMIHKIIRVKRPVLAAINGVAAGGGLGISLASDMAICADSAKFVCAWHTIGIGNDTATSYSLARIVGMRRAMELMLTNRTLYPEEAKDWGLVSRVYPKDDFREVAWKVARELAAAPTHLQVMAKERFHAGWMQPVEECTEFEIQNVIASVTHPHFMPCLTEFLDGHRADRPQVELPAGV |
| 6824 | sp|A7X5R6|BAG6\_ORNAN | MDPGGGGGGGGPGPGPDMEEPADLEVSVKTLDSQTRTFTVGAEMTVKEFKEHIAAAVSIPPDKQRLIYQGRVLQDDKKLQEYNVGGKVIHLVERAPPQTQGPSSGGASRAGSPSAPHAGAPPAGPRGPGAPVHDRNANSYVMVGTFNLPSDGSAVDVHINMEQAPIQSEPRVRLVMAQHMLRDIQALLARLEPQPGQQGQQGQQQGQALLAESGPPRPGPPGQTDGETSPREPTETREPTETREPEDGVAARGTGPAPGPAPAPAPEGNAAPNHPSPAEYAEVLQELQRVESRLQPFLQRYRAILGAAATTDYNNNTEGREEDQRVINLVGESLRLLGNTFVALSDLRCNLSATAPRHLHVVRPMSHYTAPMVLQQAAIPIQINVGTTVTMTGSGARPGPTDTTPTSGQTSSPTPSPTSGEPGPDGAPSGPAPPQAAGPPRLIRISHQSVEPVVMMHMNIPDSGSQTGGTSSASTASTGLPGQGLGQQVSGFPAAPTRVVIARPTPPQARPPHPGGPPPAPGATIPVPGSNASLAQMVSGLVGQLLMQPVLVAQGASGLGAPQAPATASASAGTTNTATTAGPAPGGPAQPPPPPPPGPPQAEVQFSQLLGSLLGPGVPGGPGTAGGATSVGSPTITVAMPGVPAFLQGMTDFLQATQTAPPPPPPPPPPPAPEQAPAAAPPGSPPAGPGGAGGGPEALPPEFFTSVVQGVLSSLLGSLGARAGSGESIAGFIQRLSGSSNIFEPGADGALGFFGALLSVICQNLSMVDVVMLLHGHSQPLQRLQPQLRGFFHQHYLGGREPTGPAIRRATHTLITGLEEYVRDSFASVQVQPGVDITRTNLDFLQEQFNGIAAHVLHCTDSSFGVRLLELCNQGLFECLALNLHCLGGQQSALTNVINGRIRRLSGGVNPSLVSWLTTMMGLRLQVVLEHMPVGPDQVLRYVRRLGEPPQPPPEEPMDVQGAERAPPEPERENASPAPGTTAEEAMSRGPPPAPEGPPPLEEQDGAAAAESEPWAAAVPPEWVPIIRQDLQTQRKVKPQPPLSDAYLSGMPAKRRKLRSDLQQRLRADPNYSPQHFPNAQRAFMDEP |
| 6825 | sp|P84444|CC21A\_MOUSE | MAQMMTLSLLSLVLALCIPWTQGSDGGGQDCCLKYSQKKIPYSIVRGYRKQEPSLGCPIPAILFSPRKHSKPELCANPEEGWVQNLMRRLDQPPAPGKQSPGCRKNRGTSKSGKKGKGSKGCKRTEQTQPSRG |
| 6826 | sp|P47757|CAPZB\_MOUSE | MSDQQLDCALDLMRRLPPQQIEKNLSDLIDLVPSLCEDLLSSVDQPLKIARDKVVGKDYLLCDYNRDGDSYRSPWSNKYDPPLEDGAMPSARLRKLEVEANNAFDQYRDLYFEGGVSSVYLWDLDHGFAGVILIKKAGDGSKKIKGCWDSIHVVEVQEKSSGRTAHYKLTSTVMLWLQTNKSGSGTMNLGGSLTRQMEKDETVSDCSPHIANIGRLVEDMENKIRSTLNEIYFGKTKDIVNGLRSLDAIPDNHKFKQLQRELSQVLTQRQVYIQPDN |
| 6827 | sp|Q9Z1Y3|CADH2\_RAT | MCRIAGGPRTLLPLLAALLQASLEASGELALCKTGFPEDVYSAVLPKTVHEGQPLLNVKFSNCNRKRKVQYESSEPADFKVDEDGTVYAVRSFPLSAEQAKFLIYAQDKETQEKWQVAVNLSLEPSLTEEPMKEPHEIEEIVFPRQLAKHSGALQRQKRDWVIPPINLPENSRGPFPQELVRIRSDRDKNLSLRYSVTGPGADQPPTGIFIINPISGQLSVTKPLDRELIARFHLRAHAVDINGNQVENPIDIVINVIDMNDNRPEFLHQVWNGSVPEGSKPGTYVMTVTAIDADDPNALNGMLRYRILSQAPSTPSPNMFTINNETGDIITVAAGLDREKVQQYTLIIQATDMEGNPTYGLSNTATAVITVTDVNDNPPEFTAMTFYGEVPENRVDVIVANLTVTDKDQPHTPAWNAAYRISGGDPTGRFAILTDPNSNDGLVTVVKPIDFETNRMFVLTVAAENQVPLAKGIQHPPQSTATVSVTVIDVNENPYFAPNPKIIRQEEGLHAGTMLTTLTAQDPDRYMQQNIRYTKLSDPANWLKIDPVNGQITTIAVLDRESPNVKNNIYNATFLASDNGIPPMSGTGTLQIYLLDINDNAPQVLPQEAETCETPEPNSINITALDYDIDPNAGPFAFDLPLSPATIKRNWTITRLNGDFAQLNLKIKFLEAGIYEVPIVITDSGNPPKSNISILRVKVCQCDSNGDCTDVDRIVGAGLGTGTIIAILLCIIILLILVLMFVVWMKRRDKERQAKQLLIDPEDDVRDNILKYDEEGGGEEDQDYDLSQLQQPDTVEPDAIKPVGIRRLDERPIHAEPQYPVRSAAPHPGDIGDFINEGLKAADNDPTAPPYDSLLVFDYEGSGSTAGSLSSLNSSSSGGDQDYDYLNDWGPRFKKLADMYGGGDD |
| 6828 | sp|P09240|CCKN\_MOUSE | MKSGVCLCVVMAVLAAGALAQPVVPAEATDPVEQRAQEAPRRQLRAVLRTDGEPRARLGALLARYIQQVRKAPSGRMSVLKNLQSLDPSHRISDRDYMGWMDFGRRSAEDYEYPS |
| 6829 | sp|Q6UXH8|CCBE1\_HUMAN | MVPPPPSRGGAARGQLGRSLGPLLLLLALGHTWTYREEPEDGDREICSESKIATTKYPCLKSSGELTTCYRKKCCKGYKFVLGQCIPEDYDVCAEAPCEQQCTDNFGRVLCTCYPGYRYDRERHRKREKPYCLDIDECASSNGTLCAHICINTLGSYRCECREGYIREDDGKTCTRGDKYPNDTGHEKSENMVKAGTCCATCKEFYQMKQTVLQLKQKIALLPNNAADLGKYITGDKVLASNTYLPGPPGLPGGQGPPGSPGPKGSPGFPGMPGPPGQPGPRGSMGPMGPSPDLSHIKQGRRGPVGPPGAPGRDGSKGERGAPGPRGSPGPPGSFDFLLLMLADIRNDITELQEKVFGHRTHSSAEEFPLPQEFPSYPEAMDLGSGDDHPRRTETRDLRAPRDFYP |
| 6830 | sp|Q5M9G3|CAPR1\_RAT | MPSATSHSGSGSKSSGPPPPSGSSGSEAAAGAAAPASQHPATGTGAVQTEAMKQILGVIDKKLRNLEKKKGKLDDYQERMNKGERLNQDQLDAVSKYQEVTNNLEFAKELQRSFMALSQDIQKTIKKTARREQLMREEAEQKRLKTVLELQYVLDKLGDDDVRTDLKQGLSGVPILSEEELSLLDEFYKLVDPERDMSLRLNEQYEHASIHLWDLLEGKEKPVCGTTYKALKEIVERVFQSNYFDSTHNHQNGLCEEEEAASAPIVEDQVAEAEPEPTEEYTEQSEVESTEYVNRQFMAETQFSSGEKEQVDEWAVETVEVVNSLQQQPQAASPSVPEPHSLTPVAQSDPLVRRQRVQDLMAQMQGPYNFIQDSMLDFENQTLDPAIVSAQPMNPTQNMDMPQLVCPQVHSESRLAQSNQVPVQPEATQVPLVSSTSEGYTASQPLYQPSHAAEQRPQKEPIDQIQATISLNTEQTTASSSLPAASQPQVFQAGASKPLHSSGINVNAAPFQSMQTVFNMNAPVPPVNEPETLKQQSQYQASYNQSFSSQPHQVEQTELQQDQLQTVVGTYHGSQDQPHQVPGNHQQPPQQSTGFPRSSQPYYNSRGVSRGGSRGARGLMNGYRGPANGFRGGYDGYRSSFSNTPNSGYTQSQFNAPRDYSGYQRDGYQQNFKRGSGQSGPRGAPRGRGGPPRPNRGMPQMNTQQVN |
| 6831 | sp|Q99616|CCL13\_HUMAN | MKVSAVLLCLLLMTAAFNPQGLAQPDALNVPSTCCFTFSSKKISLQRLKSYVITTSRCPQKAVIFRTKLGKEICADPKEKWVQNYMKHLGRKAHTLKT |
| 6832 | sp|Q13936|CAC1C\_HUMAN | MVNENTRMYIPEENHQGSNYGSPRPAHANMNANAAAGLAPEHIPTPGAALSWQAAIDAARQAKLMGSAGNATISTVSSTQRKRQQYGKPKKQGSTTATRPPRALLCLTLKNPIRRACISIVEWKPFEIIILLTIFANCVALAIYIPFPEDDSNATNSNLERVEYLFLIIFTVEAFLKVIAYGLLFHPNAYLRNGWNLLDFIIVVVGLFSAILEQATKADGANALGGKGAGFDVKALRAFRVLRPLRLVSGVPSLQVVLNSIIKAMVPLLHIALLVLFVIIIYAIIGLELFMGKMHKTCYNQEGIADVPAEDDPSPCALETGHGRQCQNGTVCKPGWDGPKHGITNFDNFAFAMLTVFQCITMEGWTDVLYWVNDAVGRDWPWIYFVTLIIIGSFFVLNLVLGVLSGEFSKEREKAKARGDFQKLREKQQLEEDLKGYLDWITQAEDIDPENEDEGMDEEKPRNMSMPTSETESVNTENVAGGDIEGENCGARLAHRISKSKFSRYWRRWNRFCRRKCRAAVKSNVFYWLVIFLVFLNTLTIASEHYNQPNWLTEVQDTANKALLALFTAEMLLKMYSLGLQAYFVSLFNRFDCFVVCGGILETILVETKIMSPLGISVLRCVRLLRIFKITRYWNSLSNLVASLLNSVRSIASLLLLLFLFIIIFSLLGMQLFGGKFNFDEMQTRRSTFDNFPQSLLTVFQILTGEDWNSVMYDGIMAYGGPSFPGMLVCIYFIILFICGNYILLNVFLAIAVDNLADAESLTSAQKEEEEEKERKKLARTASPEKKQELVEKPAVGESKEEKIELKSITADGESPPATKINMDDLQPNENEDKSPYPNPETTGEEDEEEPEMPVGPRPRPLSELHLKEKAVPMPEASAFFIFSSNNRFRLQCHRIVNDTIFTNLILFFILLSSISLAAEDPVQHTSFRNHILFYFDIVFTTIFTIEIALKILGNADYVFTSIFTLEIILKMTAYGAFLHKGSFCRNYFNILDLLVVSVSLISFGIQSSAINVVKILRVLRVLRPLRAINRAKGLKHVVQCVFVAIRTIGNIVIVTTLLQFMFACIGVQLFKGKLYTCSDSSKQTEAECKGNYITYKDGEVDHPIIQPRSWENSKFDFDNVLAAMMALFTVSTFEGWPELLYRSIDSHTEDKGPIYNYRVEISIFFIIYIIIIAFFMMNIFVGFVIVTFQEQGEQEYKNCELDKNQRQCVEYALKARPLRRYIPKNQHQYKVWYVVNSTYFEYLMFVLILLNTICLAMQHYGQSCLFKIAMNILNMLFTGLFTVEMILKLIAFKPKGYFSDPWNVFDFLIVIGSIIDVILSETNHYFCDAWNTFDALIVVGSIVDIAITEVNPAEHTQCSPSMNAEENSRISITFFRLFRVMRLVKLLSRGEGIRTLLWTFIKSFQALPYVALLIVMLFFIYAVIGMQVFGKIALNDTTEINRNNNFQTFPQAVLLLFRCATGEAWQDIMLACMPGKKCAPESEPSNSTEGETPCGSSFAVFYFISFYMLCAFLIINLFVAVIMDNFDYLTRDWSILGPHHLDEFKRIWAEYDPEAKGRIKHLDVVTLLRRIQPPLGFGKLCPHRVACKRLVSMNMPLNSDGTVMFNATLFALVRTALRIKTEGNLEQANEELRAIIKKIWKRTSMKLLDQVVPPAGDDEVTVGKFYATFLIQEYFRKFKKRKEQGLVGKPSQRNALSLQAGLRTLHDIGPEIRRAISGDLTAEEELDKAMKEAVSAASEDDIFRRAGGLFGNHVSYYQSDGRSAFPQTFTTQRPLHINKAGSSQGDTESPSHEKLVDSTFTPSSYSSTGSNANINNANNTALGRLPRPAGYPSTVSTVEGHGPPLSPAIRVQEVAWKLSSNRERHVPMCEDLELRRDSGSAGTQAHCLLLRKANPSRCHSRESQAAMAGQEETSQDETYEVKMNHDTEACSEPSLLSTEMLSYQDDENRQLTLPEEDKRDIRQSPKRGFLRSASLGRRASFHLECLKRQKDRGGDISQKTVLPLHLVHHQALAVAGLSPLLQRSHSPASFPRPFATPPATPGSRGWPPQPVPTLRLEGVESSEKLNSSFPSIHCGSWAETTPGGGGSSAARRVRPVSLMVPSQAGAPGRQFHGSASSLVEAVLISEGLGQFAQDPKFIEVTTQELADACDMTIEEMESAADNILSGGAPQSPNGALLPFVNCRDAGQDRAGGEEDAGCVRARGRPSEEELQDSRVYVSSL |
| 6833 | sp|P51636|CAV2\_HUMAN | MGLETEKADVQLFMDDDSYSHHSGLEYADPEKFADSDQDRDPHRLNSHLKLGFEDVIAEPVTTHSFDKVWICSHALFEISKYVMYKFLTVFLAIPLAFIAGILFATLSCLHIWILMPFVKTCLMVLPSVQTIWKSVTDVIIAPLCTSVGRCFSSVSLQLSQD |
| 6834 | sp|P21269|CCA1\_YEAST | MLRSTISLLMNSAAQKTMTNSNFVLNAPKITLTKVEQNICNLLNDYTDLYNQKYHNKPEPLTLRITGGWVRDKLLGQGSHDLDIAINVMSGEQFATGLNEYLQQHYAKYGAKPHNIHKIDKNPEKSKHLETATTKLFGVEVDFVNLRSEKYTELSRIPKVCFGTPEEDALRRDATLNALFYNIHKGEVEDFTKRGLQDLKDGVLRTPLPAKQTFLDDPLRVLRLIRFASRFNFTIDPEVMAEMGDPQINVAFNSKISRERVGVEMEKILVGPTPLLALQLIQRAHLENVIFFWHNDSSVVKFNEENCQDMDKINHVYNDNILNSHLKSFIELYPMFLEKLPILREKIGRSPGFQQNFILSAILSPMANLQIIGNPKKKINNLVSVTESIVKEGLKLSKNDAAVIAKTVDSICSYEEILAKFADRSQLKKSEIGIFLRNFNGEWETAHFASLSDAFLKIPKLETKKIELLFQNYNEFYSYIFDNNLNNCHELKPIVDGKQMAKLLQMKPGPWLGKINNEAIRWQFDNPTGTDQELITHLKAILPKYL |
| 6835 | sp|Q9JIS7|CAC1F\_MOUSE | MSESEVGKDTTPEPSPANGTGPGPEWGLCPGPPTVGTDTSGASGLGTPRRRTQHNKHKTVAVASAQRSPRALFCLTLTNPIRRSCISIVEWKPFDILILLTIFANCVALGVYIPFPEDDSNTANHNLEQVEYVFLVIFTVETVLKIVAYGLVLHPSAYIRNGWNLLDFIIVVVGLFSVLLEQGPGRPGDAPHTGGKPGGFDVKALRAFRVLRPLRLVSGVPSLHIVVNSIMKALVPLLHIALLVLFVIIIYAIIGLELFLGRMHKTCYFLGSDMEAEEDPSPCASSGSGRSCTLNHTECRGRWPGPNGGITNFDNFFFAMLTVFQCITMEGWTDVLYWMQDAMGYELPWVYFVSLVIFGSFFVLNLVLGVLSGEFSKEREKAKARGDFQKLREKQQMEEDLRGYLDWITQAEELDLHDPSVDGNLASLAEEGRAGHRPQLSELTNRRRGRLRWFSHSTRSTHSTSSHASLPASDTGSMTDTPGDEDEEEGTMASCTRCLNKIMKTRICRHFRRANRGLRARCRRAVKSNACYWAVLLLVFLNTLTIASEHHGQPLWLTQTQEYANKVLLCLFTVEMLLKLYGLGPSVYVASFFNRFDCFVVCGGILETTLVEVGAMQPLGISVLRCVRLLRIFKVTRHWASLSNLVASLLNSMKSIASLLLLLFLFIIIFSLLGMQLFGGKFNFDQTHTKRSTFDTFPQALLTVFQILTGEDWNVVMYDGIMAYGGPFFPGMLVCVYFIILFICGNYILLNVFLAIAVDNLASGDAGTAKDKGREKSSEGNPPKENKVLVPGGENEDAKGARSEGAAPGMEEEEEEEEEEEEEEEEEEENGAGHVELLQEVVPKEKVVPIPEGSAFFCLSQTNPLRKACHTLIHHHIFTSLILVFIILSSVSLAAEDPIRAHSFRNHILGYFDYAFTSIFTVEILLKMTVFGAFLHRGSFCRSWFNLLDLLVVSVSLISFGIHSSAISVVKILRVLRVLRPLRAINRAKGLKHVVQCVFVAIRTIGNIMIVTTLLQFMFACIGVQLFKGKFYSCTDEAKHTLKESKGSFLIYPDGDVSRPLVRERLWVNSDFNFDNVLSAMMALFTVSTFEGWPALLYKAIDANAEDEGPIYNYHVEISVFFIVYIIIIAFFMMNIFVGFVIITFRAQGEQEYQNCELDKNQRQCVEYALKAQPLRRYIPKNPHQYRVWATVNSRAFEYLMFLLILLNTVALAMQHYEQTAPFNYAMDILNMVFTGLFTIEMVLKIIAFKPKHYFADAWNTFDALIVVGSVVDIAVTEVNNGGHLGESSEDTSRISITFFRLFRVMRLVKLLSKGEGIRTLLWTFIKSFQALPYVALLIAMIFFIYAVIGMQMFGLVALQDGTQINRNNNFQTFPQAVLLLFRCATGEAWQEIMLASLPGNRCDPESDFGPGEEFTCGSSFAIVYFISFFMLCAFLIINLFVAVIMDNFDYLTRDWSILGPHHLDEFKRIWSEYDPGAKGRIKHLDVVALLRRIQPPLGFGKLCPHRVACKRLVAMNVPLNSDGTVTFNATLFALVRTSLKIKTEGNLDQANQELRMVIKKIWKRIKQKLLDEVIPPPDEEEVTVGKFYATFLIQDYFRKFRRRKEKGLLGREAPTSTSSALQAGLRSLQDLGPEIRQALTYVTEEEEEEEEAVGQEAEEEEAENNPEPYKDSIDSQPQSRWNSRISVSLPVKEKLPDSLSTGPSDDDGLAPNSRQPSVIQAGSQPHRRSSGVFMFTIPEEGSIQLKGTQGQDNQNEEQELPDWTPDLDRAGRDSFEPSPFTTSLVQQHVNGHMSTPTFAAPHACRSEPSFTIQCLQRLGSCEDLPIPGTYHRGRTSGPSRAQGSWAAPPQKGRLLYAPLLLVEESTVGEGYLGKLGGPLRTFTCLQVPGAHPNPSHRKRGSADSLVEAVLISEGLGLFAQDPRFVALAKQEIADACHLTLDEMDSAASDLLAQRTISLYSDEESILSRFDEEDLGDEMACVHAL |
| 6836 | sp|Q9NHE5|CAPS\_DROME | MIDPSSSEEEGEDDAVPNVSSKGRLTNTTKGTSAVSIIGGSAGSVVGSNIPVSGSNTDLIGNQRQSNISSICNRNDVGNISVAALGSTSNKIEQICGNRADTGNLEVPSNGIPSGISQETLNQSVGSSRANSLPRPLSPSPSLTSEKHETAEPHGKHEREEEERKRRIQLYVFISRCISYPFNAKQPTDMTKRQTKISKQQLEIITQRFQAFLKGETQIMADEAFQNAVQSYHDVFLKSERVLKMVQSGASSQHDFREVFRNNIEKRVRSLPEIDGLSKETVLTSWMAKFDIILKGTGEEDSKRPSRMQQSLNSELILSKEQLYDMFQQILLVKKFEHQILFNALMLDSADEQAAAIRRELDGRMQRVGEMEKNRKLMPKFVLKEMESLYVEELKSSINLLMANLESLPVSKGNMDSKYGLQKLKRYNHSTPSFLKLILRSHGSLSKLEGDSEDGSTQLTKLDVVLTFQLEVIVMEVENGEKLQTDQAEASKPMWDTQGDFTTTHPLPVVKVKLYTENPGMLALEDKELGKVTLKPTPLSSKSPEWHRMIVPKNLPDQDIRIKIACRLDKPLNMKHCGYLYAIGKSVWKKWKRRYFVLVQVSQYTFAMCSYKEKKSEPSEMMQLDGYTVDYIEAASANLMFGIDLNGGRYFFNAVREGDSISFACDDENECSLWVMAMYRATGQSHKPTPPITQDKNSAMSKIQGDADKARKHGMEDFISTDPCTFDHATLFKTLQNLTLEYRLNDPYASLGWFSPGQVFVLDEYCARYGVRGCYRHLCYLSDLLDRAEKQHMIDPTLIHYSFAFCASHVHGNRPDGVGSITHEEKEKFSEIKERLRQLLEFQITNFRYCFPFGRPEGALKATLSLLERVLMKDIVTPVPPEEVRQMIKKSLETAALVNYTRLSNKAKIDEDLRGDVIVPAPKKLEDLIHLAELCVDLLQQNEEHYGEAFAWFSDLLVEHAEIFWSLFAVDMDRVLSEQAPDTWDSFPLFQILNDYLRTDDNLRNGRFHQHLRDTFAPLVVRYVDLMESSIAQSIHKGFEKERWESKGINAALNPAALNNAAQALNTAALNPSMILCGKKDQVNFYVPKLPKQSNSTAANDEMRNGCATSEDLFWKLDALQSFIRDLHWPDAEFRQHLEQRLKMMAVDMIEQCIQRTDSSFQSWLKKNIAFISTDYILPSEMCAMVNVILDAKNQSFKLTTIDGIDLYKFHAKIDDQIDKANVAMTQGLSGKLMSVLESTLSKLARYDEGSLIGSILSFTNVSSSGKDLGQGYVNFFRNNMDQVRGKIADDLWTLHFFEQWYSQQINMLCNWLSERVDHALHYAQVASISHIIKKIYSDFELQGVLEDKLNSKAYQAVAQRMATEEATCALTMPDACEDEPCDEIREGEEEDNGDESTSNIPRGLPKPKVAAAQAAAVTNVVAGRVGNLLGKGIGGLSSKLGSGSWF |
| 6837 | sp|Q9VT65|CANB\_DROME | MYGIDNYPKNYHASGIGLVNLAALGYSKNEVSGGNEGGGAPKPKAGLYPSLPYPSSESVGGMPYVVKQTSHAQNASYAGPTMGMGMPVPEAPSAPAPYPSATPYPGSGLYPSLPSANVSSLPYPTAPMAPYPTGMPYPTGMPQPNLPYPAAPLAPYPSAMPGLPGMPMPYAPMPTSPAPQHNIGFPALPYPTAPPPESAPTQEEEPSVGVAELSFTSVKVPENQNMFWMGRKATSARQNSVSKGDFQSLRDSCLANGTMFEDPDFPATNASLMYSRRPDRYYEWLRPGDIADDPQFFVEGYSRFDVQQGELGDCWLLAAAANLTQDSTLFFRVIPPDQDFQENYAGIFHFKFWQYGKWVEVVIDDRLPTYNGELIYMHSTEKNEFWSALLEKAYAKLHGSYEALKGGTTCEAMEDFTGGVTEWYDIKEAPPNLFSIMMKAAERGSMMGCSLEPDPHVLEAETPQGLIRGHAYSITKVCLMDISTPNRQGKLPMIRMRNPWGNDAEWSGPWSDSSPEWRFIPEHTKEEIGLNFDRDGEFWMSFQDFLNHFDRVEICNLSPDSLTEDQQHSSRRKWEMSMFEGEWTSGVTAGGCRNFLETFWHNPQYIISLEDPDDEDDDGKCTAIVALMQKNRRSKRNVGIDCLTIGFAIYHLTDRDMQVKPQGLNFFKYRASVARSPHFINTREVCARFKLPPGHYLIVPSTFDPNEEGEFIIRVFSETRNNMEENDDEVGFGETDDRIAPSLPPPTPKEEDDPQRIALRRLFDSVAGSDEEVDWQELKRILDHSMRDVMVGSDGFSKDAVRSMVAMLDKDRSGRLGFEEFEALLTDIAKWRAVFKLYDTRRTGSIDGFHLRGALNSAGYHLNNRLLNALAHRYGSREGQIPFDDFLMCAIKVRTFIEMFRERDTDNSDTAFFNLDDWLERTIYS |
| 6838 | sp|P0DP25|CALM3\_HUMAN | MADQLTEEQIAEFKEAFSLFDKDGDGTITTKELGTVMRSLGQNPTEAELQDMINEVDADGNGTIDFPEFLTMMARKMKDTDSEEEIREAFRVFDKDGNGYISAAELRHVMTNLGEKLTDEEVDEMIREADIDGDGQVNYEEFVQMMTAK |
| 6839 | sp|Q873X9|CHIB1\_ASPFM | MRFATSTIVKVALLLSSLCVDAAVMWNRDTSSTDLEARASSGYRSVVYFVNWAIYGRNHNPQDLPVERLTHVLYAFANVRPETGEVYMTDSWADIEKHYPGDSWSDTGNNVYGCIKQLYLLKKQNRNLKVLLSIGGWTYSPNFAPAASTDAGRKNFAKTAVKLLQDLGFDGLDIDWEYPENDQQANDFVLLLKEVRTALDSYSAANAGGQHFLLTVASPAGPDKIKVLHLKDMDQQLDFWNLMAYDYAGSFSSLSGHQANVYNDTSNPLSTPFNTQTALDLYRAGGVPANKIVLGMPLYGRSFANTDGPGKPYNGVGQGSWENGVWDYKALPQAGATEHVLPDIMASYSYDATNKFLISYDNPQVANLKSGYIKSLGLGGAMWWDSSSDKTGSDSLITTVVNALGGTGVFEQSQNELDYPVSQYDNLRNGMQT |
| 6840 | sp|P15882|CHIN\_HUMAN | MALTLFDTDEYRPPVWKSYLYQLQQEAPHPRRITCTCEVENRPKYYGREFHGMISREAADQLLIVAEGSYLIRESQRQPGTYTLALRFGSQTRNFRLYYDGKHFVGEKRFESIHDLVTDGLITLYIETKAAEYIAKMTINPIYEHVGYTTLNREPAYKKHMPVLKETHDERDSTGQDGVSEKRLTSLVRRATLKENEQIPKYEKIHNFKVHTFRGPHWCEYCANFMWGLIAQGVKCADCGLNVHKQCSKMVPNDCKPDLKHVKKVYSCDLTTLVKAHTTKRPMVVDMCIREIESRGLNSEGLYRVSGFSDLIEDVKMAFDRDGEKADISVNMYEDINIITGALKLYFRDLPIPLITYDAYPKFIESAKIMDPDEQLETLHEALKLLPPAHCETLRYLMAHLKRVTLHEKENLMNAENLGIVFGPTLMRSPELDAMAALNDIRYQRLVVELLIKNEDILF |
| 6841 | sp|P15379|CD44\_MOUSE | MDKFWWHTAWGLCLLQLSLAHQQIDLNVTCRYAGVFHVEKNGRYSISRTEAADLCQAFNSTLPTMDQMKLALSKGFETCRYGFIEGNVVIPRIHPNAICAANHTGVYILVTSNTSHYDTYCFNASAPPEEDCTSVTDLPNSFDGPVTITIVNRDGTRYSKKGEYRTHQEDIDASNIIDDDVSSGSTIEKSTPEGYILHTYLPTEQPTGDQDDSFFIRSTLATIASTVHSKSHAAAQKQNNWIWSWFGNSQSTTQTQEPTTSATTALMTTPETPPKRQEAQNWFSWLFQPSESKSHLHTTTKMPGTESNTNPTGWEPNEENEDETDTYPSFSGSGIDDDEDFISSTIATTPRVSARTEDNQDWTQWKPNHSNPEVLLQTTTRMADIDRISTSAHGENWTPEPQPPFNNHEYQDEEETPHATSTTPNSTAEAAATQQETWFQNGWQGKNPPTPSEDSHVTEGTTASAHNNHPSQRITTQSQEDVSWTDFFDPISHPMGQGHQTESKDTDSSHSTTLQPTAAPNTHLVEDLNRTGPLSVTTPQSHSQNFSTLHGEPEEDENYPTTSILPSSTKSSAKDARRGGSLPTDTTTSVEGYTFQYPDTMENGTLFPVTPAKTEVFGETEVTLATDSNVNVDGSLPGDRDSSKDSRGSSRTVTHGSELAGHSSANQDSGVTTTSGPMRRPQIPEWLIILASLLALALILAVCIAVNSRRRCGQKKKLVINGGNGTVEDRKPSELNGEASKSQEMVHLVNKEPSETPDQCMTADETRNLQSVDMKIGV |
| 6842 | sp|G1UB61|CDC11\_CANAL | MNYSTENVSSAALRKRKTLKKSINFSIMIIGESGSGRSTLINTLCGGNSIVPTSSTATQDPFTKKLTLRHENVELEDNEGHKISLNIIDTPNFANSINCDDDFKIIVDFIRHQFDEVLLEESRVKRNPRFKDGRIHVLIYMINPTGHGLSDIDVKFLQHVNNLVNIIPIISKADSLTPKELKLNKELILEDLNNYGINFYKFNEYDYEQDYIDEEIIEYNKYLNSLIPFAIIGANEYRSNPNGSEDEDDILKLRILNKDFKPIDIDNAEINDFTILKNVLLVTHLNEFKDITHDSIYENYRTEALSGKQFQYVNKDSAKQEISESDYLMKEEQIKLEEERLRKFEERVHQDLINKRKELLERENELKEIEKRLLAEGLKFDENGDVVKVHEEESSENEVKVI |
| 6843 | sp|Q9Y6H1|CHCH2\_HUMAN | MPRGSRSRTSRMAPPASRAPQMRAAPRPAPVAQPPAAAPPSAVGSSAAAPRQPGLMAQMATTAAGVAVGSAVGHTLGHAITGGFSGGSNAEPARPDITYQEPQGTQPAQQQQPCLYEIKQFLECAQNQGDIKLCEGFNEVLKQCRLANGLA |
| 6844 | sp|Q96FF9|CDCA5\_HUMAN | MSGRRTRSGGAAQRSGPRAPSPTKPLRRSQRKSGSELPSILPEIWPKTPSAAAVRKPIVLKRIVAHAVEVPAVQSPRRSPRISFFLEKENEPPGRELTKEDLFKTHSVPATPTSTPVPNPEAESSSKEGELDARDLEMSKKVRRSYSRLETLGSASTSTPGRRSCFGFEGLLGAEDLSGVSPVVCSKLTEVPRVCAKPWAPDMTLPGISPPPEKQKRKKKKMPEILKTELDEWAAAMNAEFEAAEQFDLLVE |
| 6845 | sp|P13688|CEAM1\_HUMAN | MGHLSAPLHRVRVPWQGLLLTASLLTFWNPPTTAQLTTESMPFNVAEGKEVLLLVHNLPQQLFGYSWYKGERVDGNRQIVGYAIGTQQATPGPANSGRETIYPNASLLIQNVTQNDTGFYTLQVIKSDLVNEEATGQFHVYPELPKPSISSNNSNPVEDKDAVAFTCEPETQDTTYLWWINNQSLPVSPRLQLSNGNRTLTLLSVTRNDTGPYECEIQNPVSANRSDPVTLNVTYGPDTPTISPSDTYYRPGANLSLSCYAASNPPAQYSWLINGTFQQSTQELFIPNITVNNSGSYTCHANNSVTGCNRTTVKTIIVTELSPVVAKPQIKASKTTVTGDKDSVNLTCSTNDTGISIRWFFKNQSLPSSERMKLSQGNTTLSINPVKREDAGTYWCEVFNPISKNQSDPIMLNVNYNALPQENGLSPGAIAGIVIGVVALVALIAVALACFLHFGKTGRASDQRDLTEHKPSVSNHTQDHSNDPPNKMNEVTYSTLNFEAQQPTQPTSASPSLTATEIIYSEVKKQ |
| 6846 | sp|Q71F23|CENPU\_HUMAN | MAPRGRRRPRPHRSEGARRSKNTLERTHSMKDKAGQKCKPIDVFDFPDNSDVSSIGRLGENEKDEETYETFDPPLHSTAIYADEEEFSKHCGLSLSSTPPGKEAKRSSDTSGNEASEIESVKISAKKPGRKLRPISDDSESIEESDTRRKVKSAEKISTQRHEVIRTTASSELSEKPAESVTSKKTGPLSAQPSVEKENLAIESQSKTQKKGKISHDKRKKSRSKAIGSDTSDIVHIWCPEGMKTSDIKELNIVLPEFEKTHLEHQQRIESKVCKAAIATFYVNVKEQFIKMLKESQMLTNLKRKNAKMISDIEKKRQRMIEVQDELLRLEPQLKQLQTKYDELKERKSSLRNAAYFLSNLKQLYQDYSDVQAQEPNVKETYDSSSLPALLFKARTLLGAESHLRNINHQLEKLLDQG |
| 6847 | sp|Q38870|CDPK2\_ARATH | MGNACVGPNISGNGFLQTVTAAMWRPRIGAEQASSSSHGNGQVSKEAASEPATDQVQNKPPEPITMPSSKTNPETKLKPDLEIQPEEKKEKVLAEETKQKVVPEESKQEVPPEESKREVVVQPESAKPETKSESKPETTKPETTSETKPETKAEPQKPKHMRRVSSAGLRTESVLQRKTENFKEFYSLGRKLGQGQFGTTFLCLEKGTGNEYACKSISKRKLLTDEDVEDVRREIQIMHHLAGHPNVISIKGAYEDVVAVHLVMELCSGGELFDRIIQRGHYTERKAAELARTIVGVLEACHSLGVMHRDLKPENFLFVSREEDSLLKTIDFGLSMFFKPDEVFTDVVGSPYYVAPEVLRKRYGPESDVWSAGVIVYILLSGVPPFWAETEQGIFEQVLHGDLDFSSDPWPSISESAKDLVRKMLVRDPKRRLTAHQVLCHPWVQIDGVAPDKPLDSAVLSRMKQFSAMNKFKKMALRVIAESLSEEEIAGLKQMFKMIDADNSGQITFEELKAGLKRVGANLKESEILDLMQAADVDNSGTIDYKEFIAATLHLNKIEREDHLFAAFSYFDKDESGFITPDELQQACEEFGVEDARIEEMMRDVDQDKDGRIDYNEFVAMMQKGSIMGGPVKMGLENSISISLKH |
| 6848 | sp|Q9CA67|CHLP\_ARATH | MATTVTLKSFTGLRQSSTEQTNFVSHVPSSLSLPQRRTSLRVTAARATPKLSNRKLRVAVIGGGPAGGAAAETLAQGGIETILIERKMDNCKPCGGAIPLCMVGEFNLPLDIIDRRVTKMKMISPSNIAVDIGRTLKEHEYIGMVRREVLDAYLRERAEKSGATVINGLFLKMDHPENWDSPYTLHYTEYDGKTGATGTKKTMEVDAVIGADGANSRVAKSIDAGDYDYAIAFQERIRIPDEKMTYYEDLAEMYVGDDVSPDFYGWVFPKCDHVAVGTGTVTHKGDIKKFQLATRNRAKDKILGGKIIRVEAHPIPEHPRPRRLSKRVALVGDAAGYVTKCSGEGIYFAAKSGRMCAEAIVEGSQNGKKMIDEGDLRKYLEKWDKTYLPTYRVLDVLQKVFYRSNPAREAFVEMCNDEYVQKMTFDSYLYKRVAPGSPLEDIKLAVNTIGSLVRANALRREIEKLSV |
| 6849 | sp|O31854|CDAS\_BACSU | MKAMRYEQISENAFKGKIQVYLEQILGDASLILKTLHEKDQCLLCELDDLGHVFQDMQGIASSFYLQSYIEEFTPAFIELAKAIKALSEHKHGALIVIERADPVERFIQKGTSLHAEISSSLIESIFFPGNPLHDGALLVRENKLVSAANVLPLTTKEVDIHLGTRHRAALGMSGYTDALVLVVSEETGKMSFAKDGVLYPLISPRT |
| 6850 | sp|P41411|CDC18\_SCHPO | MCETPIGCHTPRRCNRFIDSAALIDCTNKTNQREHSPSFSIEIPTTPSRKRTLASSHFQTPTKRIKYELGELQEEKTDLYPNFPAQLKENKKPKLPTTPQTPKTPKRTIQIVTPKSLNRTCNPVPFATRLLQSTPHRQLFPPTPSTPSTPSYNSTAKLSLRKSYRSAGVVGRENEKSIVESFFRQHLDANAGGALYVSGAPGTGKTVLLHNVLDHVVSDYPKVNVCYINCMTINEPKAIFEKIHSKIVKEEILENEDHHINFQCELESHFTQSANELYNPVIIVLDEMDHLIAREQQVLYTLFEWPSRPTSRLILVGIANALDMTDRFLPRLRTKHITPKLLSFTPYTAQEISTIIKARLKTAATTSEKNNPFTPIKSISEVSDDSINVVSQHADETPFIHPAAIELCARKVAASSGDLRKALDICRHAIELAEREWKAQHDNTLSSVDIPRASIAHVVRATSAMSQSASARLKNLGLQQKAILCTLVVCEKTSLSVADVFEKYSSLCLRDRLIYPLTSSEFCDVANSLETLAIIRLRTKQRNGKPQDRIISLLVPEMDVITAVGDIGTLKRFFDRR |
| 6851 | sp|Q5T197|DCST1\_HUMAN | MDIKHHQNGTRGQRRKQPHTTVQRLLTWGLPVSCSWFLWRQPGEFPVTALLLGAGAGGLLAIGLFQLLVNPMNIYEEQKIMFLYSLVGLGAMGWGTSPHIRCASLLLVPKMLGKEGRLFVLGYALAAIYVGPVANLRHNLNNVIASLGCTVELQINNTRAAWRISTAPLRAMFKDLLSSKELLRAETRNISATFEDLDAQVNSETGYTPEDTMDSGETAQGREARQAPASRLHLSTQKMYELKTKLRCSYVVNQAILSCRRWFDRKHEQCMKHIWVPLLTHLLCLPMKFKFFCGIAKVMEVWCRNRIPVEGNFGQTYDSLNQSIRGLDGEFSANIDFKEEKQAGVLGLNTSWERVSTEVRDYVYRQEARLEWALGLLHVLLSCTFLLVLHASFSYMDSYNHDIRFDNIYISTYFCQIDDRRKKLGKRTLLPLRKAEEKTVIFPCKPTIQASEMSNVVRELLETLPILLLLVVLCGLDWALYSIFDTIRHHSFLQYSFRSSHKLEVKVGGDSMLARLLRKTIGALNTSSETVMESNNMPCLPQPVGLDARAYWRAAVPIGLLVCLCLLQAFGYRLRRVIAAFYFPKREKKRILFLYNDLLKKRAAFTKLRRAAILRRERQQKAPRHPLADILHRGCPLLRRWLCRRCVVCQAPETPESYVCRTLDCEAVYCWSCWDDMRQRCPVCTPREELSSSAFSDSNDDTAYAG |
| 6852 | sp|Q99259|DCE1\_HUMAN | MASSTPSSSATSSNAGADPNTTNLRPTTYDTWCGVAHGCTRKLGLKICGFLQRTNSLEEKSRLVSAFKERQSSKNLLSCENSDRDARFRRTETDFSNLFARDLLPAKNGEEQTVQFLLEVVDILLNYVRKTFDRSTKVLDFHHPHQLLEGMEGFNLELSDHPESLEQILVDCRDTLKYGVRTGHPRFFNQLSTGLDIIGLAGEWLTSTANTNMFTYEIAPVFVLMEQITLKKMREIVGWSSKDGDGIFSPGGAISNMYSIMAARYKYFPEVKTKGMAAVPKLVLFTSEQSHYSIKKAGAALGFGTDNVILIKCNERGKIIPADFEAKILEAKQKGYVPFYVNATAGTTVYGAFDPIQEIADICEKYNLWLHVDAAWGGGLLMSRKHRHKLNGIERANSVTWNPHKMMGVLLQCSAILVKEKGILQGCNQMCAGYLFQPDKQYDVSYDTGDKAIQCGRHVDIFKFWLMWKAKGTVGFENQINKCLELAEYLYAKIKNREEFEMVFNGEPEHTNVCFWYIPQSLRGVPDSPQRREKLHKVAPKIKALMMESGTTMVGYQPQGDKANFFRMVISNPAATQSDIDFLIEEIERLGQDL |
| 6853 | sp|P31689|DNJA1\_HUMAN | MVKETTYYDVLGVKPNATQEELKKAYRKLALKYHPDKNPNEGEKFKQISQAYEVLSDAKKRELYDKGGEQAIKEGGAGGGFGSPMDIFDMFFGGGGRMQRERRGKNVVHQLSVTLEDLYNGATRKLALQKNVICDKCEGRGGKKGAVECCPNCRGTGMQIRIHQIGPGMVQQIQSVCMECQGHGERISPKDRCKSCNGRKIVREKKILEVHIDKGMKDGQKITFHGEGDQEPGLEPGDIIIVLDQKDHAVFTRRGEDLFMCMDIQLVEALCGFQKPISTLDNRTIVITSHPGQIVKHGDIKCVLNEGMPIYRRPYEKGRLIIEFKVNFPENGFLSPDKLSLLEKLLPERKEVEETDEMDQVELVDFDPNQERRRHYNGEAYEDDEHHPRGGVQCQTS |
| 6854 | sp|P76015|DHAK\_ECOLI | MKKLINDVQDVLDEQLAGLAKAHPSLTLHQDPVYVTRADAPVAGKVALLSGGGSGHEPMHCGYIGQGMLSGACPGEIFTSPTPDKIFECAMQVDGGEGVLLIIKNYTGDILNFETATELLHDSGVKVTTVVIDDDVAVKDSLYTAGRRGVANTVLIEKLVGAAAERGDSLDACAELGRKLNNQGHSIGIALGACTVPAAGKPSFTLADNEMEFGVGIHGEPGIDRRPFSSLDQTVDEMFDTLLVNGSYHRTLRFWDYQQGSWQEEQQTKQPLQSGDRVIALVNNLGATPLSELYGVYNRLTTRCQQAGLTIERNLIGAYCTSLDMTGFSITLLKVDDETLALWDAPVHTPALNWGK |
| 6855 | sp|P38307|DER1\_YEAST | MDAVILNLLGDIPLVTRLWTIGCLVLSGLTSLRIVDPGKVVYSYDLVFKKGQYGRLLYSIFDYGAFNWISMINIFVSANHLSTLENSFNLRRKFCWIIFLLLVILVKMTSIEQPAASLGVLLHENLVYYELKKNGNQMNVRFFGAIDVSPSIFPIYMNAVMYFVYKRSWLEIAMNFMPGHVIYYMDDIIGKIYGIDLCKSPYDWFRNTETP |
| 6856 | sp|Q6P6R2|DLDH\_RAT | MQSWSRVYCSLAKKGHFNRLSHGLQGASSVPLRTYSDQPIDADVTVIGSGPGGYVAAIKAAQLGFKTVCIEKNETLGGTCLNVGCIPSKALLNNSHYYHLAHGKDFASRGIEIPEVRLNLEKMMEQKRSAVKALTGGIAHLFKQNKVVHVNGFGKITGKNQVTATTADGSTQVIGTKNILIATGSEVTPFPGITIDEDTIVSSTGALSLKKVPEKLVVIGAGVIGVELGSVWQRLGADVTAVEFLGHVGGIGIDMEISKNFQRILQKQGFKFKLNTKVTGATKKSDGKIDVSVEAASGGKAEVITCDVLLVCIGRRPFTQNLGLEELGIELDPKGRIPVNTRFQTKIPNIFAIGDVVAGPMLAHKAEDEGIICVEGMAGGAVHIDYNCVPSVIYTHPEVAWVGKSEEQLKEEGVEFKVGKFPFAANSRAKTNADTDGMVKILGHKSTDRILGAHILGPGAGEMVNEAALALEYGASCEDVARVCHAHPTLSEAFREANLAASFGKPINF |
| 6857 | sp|P13663|DHAS\_YEAST | MAGKKIAGVLGATGSVGQRFILLLANHPHFELKVLGASSRSAGKKYVDAVNWKQTDLLPESATDIIVSECKSEFFKECDIVFSGLDADYAGAIEKEFMEAGIAIVSNAKNYRREQDVPLIVPVVNPEHLDIVAQKLDTAKAQGKPRPGFIICISNCSTAGLVAPLKPLIEKFGPIDALTTTTLQAISGAGFSPGVPGIDILDNIIPYIGGEEDKMEWETKKILAPLAEDKTHVKLLTPEEIKVSAQCNRVAVSDGHTECISLRFKNRPAPSVEQVKTCLKEYVCDAYKLGCHSAPKQTIHVLEQPDRPQPRLDRNRDSGYGVSVGRIREDPLLDFKMVVLSHNTIIGAAGSGVLIAEILLARNLI |
| 6858 | sp|O45818|DKF2\_CAEEL | MDANDYPRLYYTSMPSSSTSMVTTTRFSTSFSPSIPCHRQENFRRHSTSALAKRNGSESEKSAEIRENPDEIEVSRVSGRDSSLAFYTTAHETSSMLSRDSRDETLTPNEHIHQASSRRVSANDSVFEDGYVDFVDEPREHGSRRKSFEKFTDRNGEEKEGRVFELSTPQPTREAAPGAHQFQLPTLLVTSTPTTVFDHSDDEVWTPYRPPPNREYSSSSEPMMGDLTFRLQSGIHKKSIAVEGTEIALRDLRNEALQFIKEIYPEKGCSSLEDYILLYKHDLRSINILQLITTSSDVTDGTLVEVVIGSCPQNERIVVHPHTLFVHSYKVPTFCDFCGELLFGLVKQGLKCFGCGLNYHKRCASKIPNNCNGSKQRRPSAIPLSPSNSNILNLNERRHSRRESCLEALDAARPSSTLGGAATPNIFITSDDCGDAVGGNYLQMPRKDRSCSWSGRPLWMEIAEATRVKLQVPHTFQVHSYKLPTVCQHCKKLLKGLIRQGMQCRDCKYNCHKKCSEHVAKDCSGNTKASQFFLGSQADDGASEDRDDDLSLRSGSGAHKKAQNTPSAPLQGSEGSGSPGPVVSFAANALSNMPDDDVISSESANIPLMRVVMSKKQTKRKNNKLLKEGWIVHYTDQQNMRKKHYWRLDTKGITMYQDENTTRYYKEIPLNEILNVSMSPPDKTADYLFEIRTGVCVYFISGSPSDEKGSSLDAQSWTTAIQSALMPVTPQSSVVGGKRIDKLKVPTEGETGHLGAKIQTEHEFSQLYQIFAEEVLGSGQFGTVYGGIHRRNGQHVAVKLIDKLKFPPNKEDLLRAEVQILEKVDHPGVVHFMQMLETTDRIFVVMEKLKGDMLEMILSSEKGRLSERTTQFLVAQILEALRYLHHLNIVHCDLKPENILLNSNSDFPQVKLCDFGFARIIGEKSFRRSVVGTPAYLAPEVLRNKGFNRSLDMWSVGVIVYVSLSGTFPFNEDEDINDQIQNAEFMYPPTPWKEISENAIEFINGLLQVKMSKRYTVTKAQSQIWMQNYTLWSDLRVLEKAVGQRFVTHESDDVRWQAYEKEHNVTPVYV |
| 6859 | sp|Q9VXJ0|DHB4\_DROME | MSSSDGKLRYDGRVAVVTGAGAGLGREYALLFAERGAKVVVNDLGGTHSGDGASQRAADIVVDEIRKAGGEAVADYNSVIDGAKVIETAIKAFGRVDILVNNAGILRDRSLVKTSEQDWNLVNDVHLKGSFKCTQAAFPYMKKQNYGRIIMTSSNSGIYGNFGQVNYTAAKMGLIGLANTVAIEGARNNVLCNVIVPTAASRMTEGILPDILFNELKPKLIAPVVAYLCHESCEDNGSYIESAAGWATKLHMVRGKGAVLRPSLDDPVTIEYVKDVWSNVTDMSKAKHLGAIAEASGTLLEVLEKLKEGGGDAIEDAFEFNSKELITYALGIGASVKNAKDMRFLYENDADFAAIPTFFVLPGLLLQMSTDKLLSKALPNSQVDFSNILHGEQYLEIVDDLPTSGTLLTNGKVFDVMDKGSGAVVVTNSESFDESGRLLVRNQSTTFIVGAGKFGGKKDPIAGVVPLQPAPNRQPDATVQYTTSEDQAALYRLSGDKNPLHIDPQMALLAGFKTPILHGLCTLGFSVRAVLAQFADNNPALFKAVKVRFSGPVIPGQTLRVDLWKQGTRINFRTVVVETGKEVISGAYVDLKSSQAKL |
| 6860 | sp|P61169|DRD2\_RAT | MDPLNLSWYDDDLERQNWSRPFNGSEGKADRPHYNYYAMLLTLLIFIIVFGNVLVCMAVSREKALQTTTNYLIVSLAVADLLVATLVMPWVVYLEVVGEWKFSRIHCDIFVTLDVMMCTASILNLCAISIDRYTAVAMPMLYNTRYSSKRRVTVMIAIVWVLSFTISCPLLFGLNNTDQNECIIANPAFVVYSSIVSFYVPFIVTLLVYIKIYIVLRKRRKRVNTKRSSRAFRANLKTPLKGNCTHPEDMKLCTVIMKSNGSFPVNRRRMDAARRAQELEMEMLSSTSPPERTRYSPIPPSHHQLTLPDPSHHGLHSNPDSPAKPEKNGHAKIVNPRIAKFFEIQTMPNGKTRTSLKTMSRRKLSQQKEKKATQMLAIVLGVFIICWLPFFITHILNIHCDCNIPPVLYSAFTWLGYVNSAVNPIIYTTFNIEFRKAFMKILHC |
| 6861 | sp|Q07266|DREB\_RAT | MAGVSFSGHRLELLAAYEEVIREESAADWALYTYEDGSDDLKLAASGEGGLQELSGHFENQKVMYGFCSVKDSQAALPKYVLINWVGEDVPDARKCACASHVAKVAEFFQGVDVIVNASSVEDIDAGAIGQRLSNGLARLSSPVLHRLRLREDENAEPVGTTYQKTDAAVEMKRINREQFWEQAKKEEELRKEEERKKALDARLRFEQERMEQERQEQEERERRYREREQQIEEHRRKQQSLEAEEAKRRLKDQSIFGDQRDEEEESQMKKSESEVEEAAAIIAQRPDNPREFFRQQERVASASGGSCDAPSPFNHRPGRPYCPFIKASDSGPSSSSSSSSSPPRTPFPYITCHRTPNLSSSLPCSHLDSHRRMAPTPIPTRSPSDSSTASTPITEQIERALDEVTSSQPPPPPPPPPPAQEAQESAPRLDGEEVCKEAKVAAAPQVWAGCAEEPPRAQEPPLLQSSPTEDLMCTESPEQAVLAASPEPDASVTSVADAHAADTIETTTATTATTIADNVTPAAASLIDLWPGNGEEASTPQAEPRVPTPPSGAEASLAEVPLLNEAAQEPLPPVGEGCANLLNFDELPEPPATFCDPEEEAEGEPLAASQVLTMPSALEEVDQVLEQELEPEPHLLTNGETTQKEGTQQASEGYFSQSQEEEFAQSEEPCAKAPPPVFYNKPPEIDITCWDADPVPEEEEGFEGGD |
| 6862 | sp|Q9SE83|DRP2A\_ARATH | MEAIDELSQLSDSMKQAASLLADEDPDETSSSKRPATFLNVVALGNVGAGKSAVLNSLIGHPVLPTGENGATRAPIIIELSRESSLSSKAIILQIDNKSQQVSASALRHSLQDRLSKGASGKNRDEINLKLRTSTAPPLKLVDLPGLDQRIVDESMIAEYAQHNDAILLVIVPASQASEISSSRALKIAKEYDPESTRTIGIIGKIDQAAENSKALAAVQALLSNQGPPKTTDIPWVAVIGQSVSIASAQSGSGENSLETAWRAESESLKSILTGAPQSKLGRIALVDTLASQIRSRMKLRLPSVLSGLQGKSQIVQDELARLGEQLVNSAEGTRAIALELCREFEDKFLLHLAGGEGSGWKVVASFEGNFPNRIKQLPLDRHFDLNNVKRVVLEADGYQPYLISPEKGLRSLIKIVLELAKDPARLCVDEVHRVLVDIVSASANATPGLGRYPPFKREVVAIASAALDGFKNEAKKMVVALVDMERAFVPPQHFIRLVQRRMERQRREEELKGRSSKKGQDAEQSLLSRATSPQPDGPTAGGSLKSMKDKPSPQDKETPEVSGLKTAGPEGEITAGYLMKKSAKTNGWSRRWFVLNEKTGKLGYTKKQEERNFRGTITLEECTIEEIPEDEVEKSKSSKDKKANGPDSKGPGLVFKITCKVPYKTVLKAHNALVLKAESVVDKNEWINKLQKVIQARGGQVGSVSMRQSLSEGSLDKMVRKPIDPEEELRWMSQEVRGYVEAVLNSLAANVPKAVVLCQVEKAKEDMLNQLYSSISAIGNERIESLIQEDQNVKRRRERYQKQSSLLSKLTRQLSIHDNRAAAASSYSDNSGTESSPRASGGSSGDDWMNAFNSAANGPSDSLSKYGSGGHSRRYSDPAQNGDAASPGSGSNRRTTPNRLPPAPPPTGSAYRY |
| 6863 | sp|O00418|EF2K\_HUMAN | MADEDLIFRLEGVDGGQSPRAGHDGDSDGDSDDEEGYFICPITDDPSSNQNVNSKVNKYYSNLTKSERYSSSGSPANSFHFKEAWKHAIQKAKHMPDPWAEFHLEDIATERATRHRYNAVTGEWLDDEVLIKMASQPFGRGAMRECFRTKKLSNFLHAQQWKGASNYVAKRYIEPVDRDVYFEDVRLQMEAKLWGEEYNRHKPPKQVDIMQMCIIELKDRPGKPLFHLEHYIEGKYIKYNSNSGFVRDDNIRLTPQAFSHFTFERSGHQLIVVDIQGVGDLYTDPQIHTETGTDFGDGNLGVRGMALFFYSHACNRICESMGLAPFDLSPRERDAVNQNTKLLQSAKTILRGTEEKCGSPQVRTLSGSRPPLLRPLSENSGDENMSDVTFDSLPSSPSSATPHSQKLDHLHWPVFSDLDNMASRDHDHLDNHRESENSGDSGYPSEKRGELDDPEPREHGHSYSNRKYESDEDSLGSSGRVCVEKWNLLNSSRLHLPRASAVALEVQRLNALDLEKKIGKSILGKVHLAMVRYHEGGRFCEKGEEWDQESAVFHLEHAANLGELEAIVGLGLMYSQLPHHILADVSLKETEENKTKGFDYLLKAAEAGDRQSMILVARAFDSGQNLSPDRCQDWLEALHWYNTALEMTDCDEGGEYDGMQDEPRYMMLAREAEMLFTGGYGLEKDPQRSGDLYTQAAEAAMEAMKGRLANQYYQKAEEAWAQMEE |
| 6864 | sp|Q8IS44|DRD2L\_DROME | MLSPFDWRRGISSSGTGGTMAAQPLSSTAATTAAATGATAATAATAATTSATLSTAAASTSTTAAPSAGATWINHHLAVEADSSQPANGSDAQAGVEGPTMPAGYLPLYEDVETAAEDAGYALIDDISEWLLGSVGSEAAVGGPENSTNLAVTGANGTLAWLEALNSTQPAQSNSSAEDGERGRYSLRSFVEQQLAGGGAAGAGDGGDAGIALIDSGEEAALDNVADAETDYGMLGGFGDAELLQRTATVARETLGNRTAPSTTSYDGGGSGDVGVAGGLAGTAGGGVGGAGGSGGSTFMLLLENFNDYFPNYNGSTVSGTSTIAPGVAITGSRGSGLLLEQNLTGLYLDGYRLNCTNETLNLTDSCGELRVVDHNYWALILILFPILTLFGNILVILSVCRERSLQTVTNYFIVSLAIADLLVAVVVMPFAVYFLVNGAWALPDVVCDFYIAMDVICSTSSIFNLVAISIDRYIAVTQPIKYAKHKNSRRVCLTILLVWAISAAIGSPIVLGLNNTPNREPDVCAFYNADFILYSSLSSFYIPCIIMVFLYWNIFKALRSRARKQRAARKPHLSELTGGSVIENIAQTRRLAETALDSSRHASRILPDEAATNTASGSNEEEDENAISPDIDDCHVIVNDKSTEFMLATVVEETGNSVVAQITTQPQLVVADPNGNHDSGYAASNVDDVLAGVAPASASAATSAAPRSSGSPPDSPLPSGATLQRSSVSSQRRPTGDDSPKRGEPALRSVGVDNSSVAMKPLSFVRYGVQEAMTLARNDSTLSTTSKTSSRKDKKNSQASRFTIYKVHKASKKKREKSSAKKERKATKTLAIVLGVFLFCWLPFFSCNIMDAMCAKFKKDCRPGLTAYMMTTWLGYINSFVNPVIYTIFNPEFRKAFKKIMHMG |
| 6865 | sp|P20288|DRD2\_BOVIN | MDPLNLSWYDDDPESRNWSRPFNGSEGKADRPPYNYYAMLLTLLIFVIVFGNVLVCMAVSREKALQTTTNYLIVSLAVADLLVATLVMPWVVYLEVVGEWKFSRIHCDIFVTLDVMMCTASILNLCAISIDRYTAVAMPMLYNTRYSSKRRVTVMIAIVWVLSFTISCPMLFGLNNTDQNECIIANPAFVVYSSIVSFYVPFIVTLLVYIKIYIVLRRRRKRVNTKRSSRAFRANLKAPLKGNCTHPEDMKLCTVIMKSNGSFPVNRRRVEAARRAQELEMEMLSSTSPPERTRYSPIPPSHHQLTLPDPSHHGLHSTPDSPAKPEKNGHAKTVNPKIAKIFEIQSMPNGKTRTSLKTMSRRKLSQQKEKKATQMLAIVLGVFIICWLPFFITHILNIHCDCNIPPVLYSAFTWLGYVNSAVNPIIYTTFNIEFRKAFLKILHC |
| 6866 | sp|Q9Y2J2|E41L3\_HUMAN | MTTESGSDSESKPDQEAEPQEAAGAQGRAGAPVPEPPKEEQQQALEQFAAAAAHSTPVRREVTDKEQEFAARAAKQLEYQQLEDDKLSQKSSSSKLSRSPLKIVKKPKSMQCKVILLDGSEYTCDVEKRSRGQVLFDKVCEHLNLLEKDYFGLTYRDAENQKNWLDPAKEIKKQVRSGAWHFSFNVKFYPPDPAQLSEDITRYYLCLQLRDDIVSGRLPCSFVTLALLGSYTVQSELGDYDPDECGSDYISEFRFAPNHTKELEDKVIELHKSHRGMTPAEAEMHFLENAKKLSMYGVDLHHAKDSEGVEIMLGVCASGLLIYRDRLRINRFAWPKVLKISYKRNNFYIKIRPGEFEQFESTIGFKLPNHRAAKRLWKVCVEHHTFFRLLLPEAPPKKFLTLGSKFRYSGRTQAQTRRASALIDRPAPYFERSSSKRYTMSRSLDGEVGTGQYATTKGISQTNLITTVTPEKKAEEERDEEEDKRRKGEEVTPISAIRHEGKSPGLGTDSCPLSPPSTHCAPTSPTELRRRCKENDCKLPGYEPSRAEHLPGEPALDSDGPGRPYLGDQDVAFSYRQQTGKGTTLFSFSLQLPESFPSLLDDDGYLSFPNLSETNLLPQSLQHYLPIRSPSLVPCFLFIFFFLLSASFSVPYALTLSFPLALCLCYLEPKAASLSASLDNDPSDSSEEETDSERTDTAADGETTATESDQEEDAELKAQELEKTQDDLMKHQTNISELKRTFLETSTDTAVTNEWEKRLSTSPVRLAARQEDAPMIEPLVPEETKQSSGEKLMDGSEIFSLLESARKPTEFIGGVTSTSQSWVQKMETKTESSGIETEPTVHHLPLSTEKVVQETVLVEERRVVHASGDASYSAGDSGDAAAQPAFTGIKGKEGSALTEGAKEEGGEEVAKAVLEQEETAAASRERQEEQSAAIHISETLEQKPHFESSTVKTETISFGSVSPGGVKLEISTKEVPVVHTETKTITYESSQVDPGTDLEPGVLMSAQTITSETTSTTTTTHITKTVKGGISETRIEKRIVITGDADIDHDQALAQAIKEAKEQHPDMSVTKVVVHKETEITPEDGED |
| 6867 | sp|O77051|E2F2\_DROME | MYKRKTASIVKRDSSAAGTTSSAMMMKVDSAETSVRSQSYESTPVSMDTSPDPPTPIKSPSNSQSQSQPGQQRSVGSLVLLTQKFVDLVKANEGSIDLKAATKILDVQKRRIYDITNVLEGIGLIDKGRHCSLVRWRGGGFNNAKDQENYDLARSRTNHLKMLEDDLDRQLEYAQRNLRYVMQDPSNRSYAYVTRDDLLDIFGDDSVFTIPNYDEEVDIKRNHYELAVSLDNGSAIDIRLVTNQGKSTTNPHDVDGFFDYHRLDTPSPSTSSHSSEDGNAPACAGNVITDEHGYSCNPGMKDEMKLLENELTAKIIFQNYLSGHSLRRFYPDDPNLENPPLLQLNPPQEDFNFALKSDEGICELFDVQCS |
| 6868 | sp|Q9NRD9|DUOX1\_HUMAN | MGFCLALAWTLLVGAWTPLGAQNPISWEVQRFDGWYNNLMEHRWGSKGSRLQRLVPASYADGVYQPLGEPHLPNPRDLSNTISRGPAGLASLRNRTVLGVFFGYHVLSDLVSVETPGCPAEFLNIRIPPGDPMFDPDQRGDVVLPFQRSRWDPETGRSPSNPRDPANQVTGWLDGSAIYGSSHSWSDALRSFSRGQLASGPDPAFPRDSQNPLLMWAAPDPATGQNGPRGLYAFGAERGNREPFLQALGLLWFRYHNLWAQRLARQHPDWEDEELFQHARKRVIATYQNIAVYEWLPSFLQKTLPEYTGYRPFLDPSISSEFVAASEQFLSTMVPPGVYMRNASCHFQGVINRNSSVSRALRVCNSYWSREHPSLQSAEDVDALLLGMASQIAEREDHVLVEDVRDFWPGPLKFSRTDHLASCLQRGRDLGLPSYTKARAALGLSPITRWQDINPALSRSNDTVLEATAALYNQDLSWLELLPGGLLESHRDPGPLFSTIVLEQFVRLRDGDRYWFENTRNGLFSKKEIEEIRNTTLQDVLVAVINIDPSALQPNVFVWHKGDPCPQPRQLSTEGLPACAPSVVRDYFEGSGFGFGVTIGTLCCFPLVSLLSAWIVARLRMRNFKRLQGQDRQSIVSEKLVGGMEALEWQGHKEPCRPVLVYLQPGQIRVVDGRLTVLRTIQLQPPQKVNFVLSSNRGRRTLLLKIPKEYDLVLLFNLEEERQALVENLRGALKESGLSIQEWELREQELMRAAVTREQRRHLLETFFRHLFSQVLDINQADAGTLPLDSSQKVREALTCELSRAEFAESLGLKPQDMFVESMFSLADKDGNGYLSFREFLDILVVFMKGSPEEKSRLMFRMYDFDGNGLISKDEFIRMLRSFIEISNNCLSKAQLAEVVESMFRESGFQDKEELTWEDFHFMLRDHNSELRFTQLCVKGVEVPEVIKDLCRRASYISQDMICPSPRVSARCSRSDIETELTPQRLQCPMDTDPPQEIRRRFGKKVTSFQPLLFTEAHREKFQRSCLHQTVQQFKRFIENYRRHIGCVAVFYAIAGGLFLERAYYYAFAAHHTGITDTTRVGIILSRGTAASISFMFSYILLTMCRNLITFLRETFLNRYVPFDAAVDFHRLIASTAIVLTVLHSVGHVVNVYLFSISPLSVLSCLFPGLFHDDGSELPQKYYWWFFQTVPGLTGVVLLLILAIMYVFASHHFRRRSFRGFWLTHHLYILLYVLLIIHGSFALIQLPRFHIFFLVPAIIYGGDKLVSLSRKKVEISVVKAELLPSGVTHLRFQRPQGFEYKSGQWVRIACLALGTTEYHPFTLTSAPHEDTLSLHIRAAGPWTTRLREIYSAPTGDRCARYPKLYLDGPFGEGHQEWHKFEVSVLVGGGIGVTPFASILKDLVFKSSVSCQVFCKKIYFIWVTRTQRQFEWLADIIREVEENDHQDLVSVHIYITQLAEKFDLRTTMLYICERHFQKVLNRSLFTGLRSITHFGRPPFEPFFNSLQEVHPQVRKIGVFSCGPPGMTKNVEKACQLINRQDRTHFSHHYENF |
| 6869 | sp|Q9C5Z3|EIF3E\_ARATH | MEESKQNYDLTPLIAPNLDRHLVFPIFEFLQERQLYPDEQILKSKIQLLNQTNMVDYAMDIHKSLYHTEDAPQEMVERRTEVVARLKSLEEAAAPLVSFLLNPNAVQELRADKQYNLQMLKERYQIGPDQIEALYQYAKFQFECGNYSGAADYLYQYRTLCSNLERSLSALWGKLASEILMQNWDIALEELNRLKEIIDSKSFSSPLNQVQNRIWLMHWGLYIFFNHDNGRTQIIDLFNQDKYLNAIQTSAPHLLRYLATAFIVNKRRRPQLKEFIKVIQQEHYSYKDPIIEFLACVFVNYDFDGAQKKMKECEEVIVNDPFLGKRVEDGNFSTVPLRDEFLENARLFVFETYCKIHQRIDMGVLAEKLNLNYEEAERWIVNLIRTSKLDAKIDSESGTVIMEPTQPNVHEQLINHTKGLSGRTYKLVNQLLEHTQAQATR |
| 6870 | sp|Q96L91|EP400\_HUMAN | MHHGTGPQNVQHQLQRSRACPGSEGEEQPAHPNPPPSPAAPFAPSASPSAPQSPSYQIQQLMNRSPATGQNVNITLQSVGPVVGGNQQITLAPLPLPSPTSPGFQFSAQPRRFEHGSPSYIQVTSPLSQQVQTQSPTQPSPGPGQALQNVRAGAPGPGLGLCSSSPTGGFVDASVLVRQISLSPSSGGHFVFQDGSGLTQIAQGAQVQLQHPGTPITVRERRPSQPHTQSGGTIHHLGPQSPAAAGGAGLQPLASPSHITTANLPPQISSIIQGQLVQQQQVLQGPPLPRPLGFERTPGVLLPGAGGAAGFGMTSPPPPTSPSRTAVPPGLSSLPLTSVGNTGMKKVPKKLEEIPPASPEMAQMRKQCLDYHYQEMQALKEVFKEYLIELFFLQHFQGNMMDFLAFKKKHYAPLQAYLRQNDLDIEEEEEEEEEEEEKSEVINDEVKVVTGKDGQTGTPVAIATQLPPKVSAAFSSQQQPFQQALAGSLVAGAGSTVETDLFKRQQAMPSTGMAEQSKRPRLEVGHQGVVFQHPGADAGVPLQQLMPTAQGGMPPTPQAAQLAGQRQSQQQYDPSTGPPVQNAASLHTPLPQLPGRLPPAGVPTAALSSALQFAQQPQVVEAQTQLQIPVKTQQPNVPIPAPPSSQLPIPPSQPAQLALHVPTPGKVQVQASQLSSLPQMVASTRLPVDPAPPCPRPLPTSSTSSLAPVSGSGPGPSPARSSPVNRPSSATNKALSPVTSRTPGVVASAPTKPQSPAQNATSSQDSSQDTLTEQITLENQVHQRIAELRKAGLWSQRRLPKLQEAPRPKSHWDYLLEEMQWMATDFAQERRWKVAAAKKLVRTVVRHHEEKQLREERGKKEEQSRLRRIAASTAREIECFWSNIEQVVEIKLRVELEEKRKKALNLQKVSRRGKELRPKGFDALQESSLDSGMSGRKRKASISLTDDEVDDEEETIEEEEANEGVVDHQTELSNLAKEAELPLLDLMKLYEGAFLPSSQWPRPKPDGEDTSGEEDADDCPGDRESRKDLVLIDSLFIMDQFKAAERMNIGKPNAKDIADVTAVAEAILPKGSARVTTSVKFNAPSLLYGALRDYQKIGLDWLAKLYRKNLNGILADEAGLGKTVQIIAFFAHLACNEGNWGPHLVVVRSCNILKWELELKRWCPGLKILSYIGSHRELKAKRQEWAEPNSFHVCITSYTQFFRGLTAFTRVRWKCLVIDEMQRVKGMTERHWEAVFTLQSQQRLLLIDSPLHNTFLELWTMVHFLVPGISRPYLSSPLRAPSEESQDYYHKVVIRLHRVTQPFILRRTKRDVEKQLTKKYEHVLKCRLSNRQKALYEDVILQPGTQEALKSGHFVNVLSILVRLQRICNHPGLVEPRHPGSSYVAGPLEYPSASLILKALERDFWKEADLSMFDLIGLENKITRHEAELLSKKKIPRKLMEEISTSAAPAARPAAAKLKASRLFQPVQYGQKPEGRTVAFPSTHPPRTAAPTTASAAPQGPLRGRPPIATFSANPEAKAAAAPFQTSQASASAPRHQPASASSTAASPAHPAKLRAQTTAQASTPGQPPPQPQAPSHAAGQSALPQRLVLPSQAQARLPSGEVVKIAQLASITGPQSRVAQPETPVTLQFQGSKFTLSHSQLRQLTAGQPLQLQGSVLQIVSAPGQPYLRAPGPVVMQTVSQAGAVHGALGSKPPAGGPSPAPLTPQVGVPGRVAVNALAVGEPGTASKPASPIGGPTQEEKTRLLKERLDQIYLVNERRCSQAPVYGRDLLRICALPSHGRVQWRGSLDGRRGKEAGPAHSYTSSSESPSELMLTLCRCGESLQDVIDRVAFVIPPVVAAPPSLRVPRPPPLYSHRMRILRQGLREHAAPYFQQLRQTTAPRLLQFPELRLVQFDSGKLEALAILLQKLKSEGRRVLILSQMILMLDILEMFLNFHYLTYVRIDENASSEQRQELMRSFNRDRRIFCAILSTHSRTTGINLVEADTVVFYDNDLNPVMDAKAQEWCDRIGRCKDIHIYRLVSGNSIEEKLLKNGTKDLIREVAAQGNDYSMAFLTQRTIQELFEVYSPMDDAGFPVKAEEFVVLSQEPSVTETIAPKIARPFIEALKSIEYLEEDAQKSAQEGVLGPHTDALSSDSENMPCDEEPSQLEELADFMEQLTPIEKYALNYLELFHTSIEQEKERNSEDAVMTAVRAWEFWNLKTLQEREARLRLEQEEAELLTYTREDAYSMEYVYEDVDGQTEVMPLWTPPTPPQDDSDIYLDSVMCLMYEATPIPEAKLPPVYVRKERKRHKTDPSAAGRKKKQRHGEAVVPPRSLFDRATPGLLKIRREGKEQKKNILLKQQVPFAKPLPTFAKPTAEPGQDNPEWLISEDWALLQAVKQLLELPLNLTIVSPAHTPNWDLVSDVVNSCSRIYRSSKQCRNRYENVIIPREEGKSKNNRPLRTSQIYAQDENATHTQLYTSHFDLMKMTAGKRSPPIKPLLGMNPFQKNPKHASVLAESGINYDKPLPPIQVASLRAERIAKEKKALADQQKAQQPAVAQPPPPQPQPPPPPQQPPPPLPQPQAAGSQPPAGPPAVQPQPQPQPQTQPQPVQAPAKAQPAITTGGSAAVLAGTIKTSVTGTSMPTGAVSGNVIVNTIAGVPAATFQSINKRLASPVAPGALTTPGGSAPAQVVHTQPPPRAVGSPATATPDLVSMATTQGVRAVTSVTASAVVTTNLTPVQTPARSLVPQVSQATGVQLPGKTITPAHFQLLRQQQQQQQQQQQQQQQQQQQQQQQQQQQQQTTTTSQVQVPQIQGQAQSPAQIKAVGKLTPEHLIKMQKQKLQMPPQPPPPQAQSAPPQPTAQVQVQTSQPPQQQSPQLTTVTAPRPGALLTGTTVANLQVARLTRVPTSQLQAQGQMQTQAPQPAQVALAKPPVVSVPAAVVSSPGVTTLPMNVAGISVAIGQPQKAAGQTVVAQPVHMQQLLKLKQQAVQQQKAIQPQAAQGPAAVQQKITAQQITTPGAQQKVAYAAQPALKTQFLTTPISQAQKLAGAQQVQTQIQVAKLPQVVQQQTPVASIQQVASASQQASPQTVALTQATAAGQQVQMIPAVTATAQVVQQKLIQQQVVTTASAPLQTPGAPNPAQVPASSDSPSQQPKLQMRVPAVRLKTPTKPPCQ |
| 6871 | sp|P29322|EPHA8\_HUMAN | MAPARGRLPPALWVVTAAAAAATCVSAARGEVNLLDTSTIHGDWGWLTYPAHGWDSINEVDESFQPIHTYQVCNVMSPNQNNWLRTSWVPRDGARRVYAEIKFTLRDCNSMPGVLGTCKETFNLYYLESDRDLGASTQESQFLKIDTIAADESFTGADLGVRRLKLNTEVRSVGPLSKRGFYLAFQDIGACLAILSLRIYYKKCPAMVRNLAAFSEAVTGADSSSLVEVRGQCVRHSEERDTPKMYCSAEGEWLVPIGKCVCSAGYEERRDACVACELGFYKSAPGDQLCARCPPHSHSAAPAAQACHCDLSYYRAALDPPSSACTRPPSAPVNLISSVNGTSVTLEWAPPLDPGGRSDITYNAVCRRCPWALSRCEACGSGTRFVPQQTSLVQASLLVANLLAHMNYSFWIEAVNGVSDLSPEPRRAAVVNITTNQAAPSQVVVIRQERAGQTSVSLLWQEPEQPNGIILEYEIKYYEKDKEMQSYSTLKAVTTRATVSGLKPGTRYVFQVRARTSAGCGRFSQAMEVETGKPRPRYDTRTIVWICLTLITGLVVLLLLLICKKRHCGYSKAFQDSDEEKMHYQNGQAPPPVFLPLHHPPGKLPEPQFYAEPHTYEEPGRAGRSFTREIEASRIHIEKIIGSGDSGEVCYGRLRVPGQRDVPVAIKALKAGYTERQRRDFLSEASIMGQFDHPNIIRLEGVVTRGRLAMIVTEYMENGSLDTFLRTHDGQFTIMQLVGMLRGVGAGMRYLSDLGYVHRDLAARNVLVDSNLVCKVSDFGLSRVLEDDPDAAYTTTGGKIPIRWTAPEAIAFRTFSSASDVWSFGVVMWEVLAYGERPYWNMTNRDVISSVEEGYRLPAPMGCPHALHQLMLDCWHKDRAQRPRFSQIVSVLDALIRSPESLRATATVSRCPPPAFVRSCFDLRGGSGGGGGLTVGDWLDSIRMGRYRDHFAAGGYSSLGMVLRMNAQDVRALGITLMGHQKKILGSIQTMRAQLTSTQGPRRHL |
| 6872 | sp|P23895|EMRE\_ECOLI | MNPYIYLGGAILAEVIGTTLMKFSEGFTRLWPSVGTIICYCASFWLLAQTLAYIPTGIAYAIWSGVGIVLISLLSWGFFGQRLDLPAIIGMMLICAGVLIINLLSRSTPH |
| 6873 | sp|O15372|EIF3H\_HUMAN | MASRKEGTGSTATSSSSTAGAAGKGKGKGGSGDSAVKQVQIDGLVVLKIIKHYQEEGQGTEVVQGVLLGLVVEDRLEITNCFPFPQHTEDDADFDEVQYQMEMMRSLRHVNIDHLHVGWYQSTYYGSFVTRALLDSQFSYQHAIEESVVLIYDPIKTAQGSLSLKAYRLTPKLMEVCKEKDFSPEALKKANITFEYMFEEVPIVIKNSHLINVLMWELEKKSAVADKHELLSLASSNHLGKNLQLLMDRVDEMSQDIVKYNTYMRNTSKQQQQKHQYQQRRQQENMQRQSRGEPPLPEEDLSKLFKPPQPPARMDSLLIAGQINTYCQNIKEFTAQNLGKLFMAQALQEYNN |
| 6874 | sp|P54762|EPHB1\_HUMAN | MALDYLLLLLLASAVAAMEETLMDTRTATAELGWTANPASGWEEVSGYDENLNTIRTYQVCNVFEPNQNNWLLTTFINRRGAHRIYTEMRFTVRDCSSLPNVPGSCKETFNLYYYETDSVIATKKSAFWSEAPYLKVDTIAADESFSQVDFGGRLMKVNTEVRSFGPLTRNGFYLAFQDYGACMSLLSVRVFFKKCPSIVQNFAVFPETMTGAESTSLVIARGTCIPNAEEVDVPIKLYCNGDGEWMVPIGRCTCKPGYEPENSVACKACPAGTFKASQEAEGCSHCPSNSRSPAEASPICTCRTGYYRADFDPPEVACTSVPSGPRNVISIVNETSIILEWHPPRETGGRDDVTYNIICKKCRADRRSCSRCDDNVEFVPRQLGLTECRVSISSLWAHTPYTFDIQAINGVSSKSPFPPQHVSVNITTNQAAPSTVPIMHQVSATMRSITLSWPQPEQPNGIILDYEIRYYEKEHNEFNSSMARSQTNTARIDGLRPGMVYVVQVRARTVAGYGKFSGKMCFQTLTDDDYKSELREQLPLIAGSAAAGVVFVVSLVAISIVCSRKRAYSKEAVYSDKLQHYSTGRGSPGMKIYIDPFTYEDPNEAVREFAKEIDVSFVKIEEVIGAGEFGEVYKGRLKLPGKREIYVAIKTLKAGYSEKQRRDFLSEASIMGQFDHPNIIRLEGVVTKSRPVMIITEFMENGALDSFLRQNDGQFTVIQLVGMLRGIAAGMKYLAEMNYVHRDLAARNILVNSNLVCKVSDFGLSRYLQDDTSDPTYTSSLGGKIPVRWTAPEAIAYRKFTSASDVWSYGIVMWEVMSFGERPYWDMSNQDVINAIEQDYRLPPPMDCPAALHQLMLDCWQKDRNSRPRFAEIVNTLDKMIRNPASLKTVATITAVPSQPLLDRSIPDFTAFTTVDDWLSAIKMVQYRDSFLTAGFTSLQLVTQMTSEDLLRIGITLAGHQKKILNSIHSMRVQISQSPTAMA |
| 6875 | sp|Q9K498|EIZFM\_STRCO | MTVESVNPETRAPAAPGAPELREPPVAGGGVPLLGHGWRLARDPLAFMSQLRDHGDVVRIKLGPKTVYAVTNPELTGALALNPDYHIAGPLWESLEGLLGKEGVATANGPLHRRQRRTIQPAFRLDAIPAYGPIMEEEAHALTERWQPGKTVDATSESFRVAVRVAARCLLRGQYMDERAERLCVALATVFRGMYRRMVVPLGPLYRLPLPANRRFNDALADLHLLVDEIIAERRASGQKPDDLLTALLEAKDDNGDPIGEQEIHDQVVAILTPGSETIASTIMWLLQALADHPEHADRIRDEVEAVTGGRPVAFEDVRKLRHTGNVIVEAMRLRPAVWVLTRRAVAESELGGYRIPAGADIIYSPYAIQRDPKSYDDNLEFDPDRWLPERAANVPKYAMKPFSAGKRKCPSDHFSMAQLTLITAALATKYRFEQVAGSNDAVRVGITLRPHDLLVRPVAR |
| 6876 | sp|Q15717|ELAV1\_HUMAN | MSNGYEDHMAEDCRGDIGRTNLIVNYLPQNMTQDELRSLFSSIGEVESAKLIRDKVAGHSLGYGFVNYVTAKDAERAINTLNGLRLQSKTIKVSYARPSSEVIKDANLYISGLPRTMTQKDVEDMFSRFGRIINSRVLVDQTTGLSRGVAFIRFDKRSEAEEAITSFNGHKPPGSSEPITVKFAANPNQNKNVALLSQLYHSPARRFGGPVHHQAQRFRFSPMGVDHMSGLSGVNVPGNASSGWCIFIYNLGQDADEGILWQMFGPFGAVTNVKVIRDFNTNKCKGFGFVTMTNYEEAAMAIASLNGYRLGDKILQVSFKTNKSHK |
| 6877 | sp|Q77377|ENV\_HV1AN | MIVTMKAMEKRNKKLWTLYLAMALITPCLSLRQLYATVYAGVPVWEDATPVLFCASDANLTSTEKHNIWASQACVPTDPTPYEYPLHNVTDDFNIWKNYMVEQMQEDIISLWDQSLKPCVQMTFLCVQMECTNIAGTTNENLMKKCEFNVTTVIKDKKEKKQALFYVSDLMELNETSSTNKTNSKMYTLTNCNSTTITQACPKVSFEPIPIHYCAPAGYAIFKCNSTEFNGTGTCRNITVVTCTHGIRPTVSTQLILNGTLSKGKIRMMAKDILEGGKNIIVTLNSTLNMTCERPQIDIQEMRIGPMAWYSMGIGGTAGNSSRAAYCKYNATDWGKILKQTAERYLELVNNTGSINMTFNHSSGGDLEVTHLHFNCHGEFFYCNTAKMFNYTFSCNGTTCSVSNVSQGNNGTLPCKLRQVVRSWIRGQSGLYAPPIKGNLTCMSNITGMILQMDNTWNSSNNNVTFRPIGGDMKDIWRTELFNYKVVRVKPFSVAPTRIARPVISTRTHREKRAVGLGMLFLGVLSAAGSTMGAAATTLAVQTHTLLKGIVQQQDNLLRAIQAQQQLLRLSXWGIRQLRARLLALETLLQNQQLLSLWGCKGKLVCYTSVKWNRTWIGNESIWDTLTWQEWDRQISNISSTIYEEIQKAQVQQEQNEKKLLELDEWASIWNWLDITKWLWYIKIAIIIVGALVGVRVIMIVLNIVKNIRQGYQPLSLQIPNHHQEEAGTPGRTGGGGGEEGRPRWIPSPQGFLPLLYTDLRTIILWTYHLLSNLASGIQKVISYLRLGLWILGQKIINVCRICAAVTQYWLQELQNSATSLLDTLAVAVANWTDGIIAGIQRIGTGIRNIPRRIRQGLERSLL |
| 6878 | sp|P05878|ENV\_HV1SC | MRVKGSGRNYQHLWRWGTMLLGILMICSAAEQLWVTVYYGVPVWKEATTTLFCASDAKAYDTEVHNIWATHACVPTDPNPQEVVLGNVTENFNMWKNNMVEQMHEDIISLWDQSLKPCVKLTPLCVTLNCTNLRNDTSTNATNTTSSNRGKMEGGEMTNCSFNITTSIRSKVQKEYALFYKLDVVPIDNTSYTLINCNTSVITQACPKVSFEPIPIHYCARWFAILNCNNKKFNGTGPCTNVSTVQCTHGIRPVVSTHLLLNGSLAEEEVVLRSENFTDNAKTIIVQLKEAVEINCTRPNNNTTRSIHIGPGRAFYATGDIIGDIRQAHCNISRAKWNNTLKQIVIKLRDQFENKTIIFNRSSGGDPEIVMHSFNCGGEFFYCNSTQLFSSTWNGTEGSNNTGGNDTITLPCRIKEIINMWQEVGKAMYAPPIKGQVKCSSNITGLLLTRDGGNSKNGSKNENTEIFRPGGGDMRDNWRSELYKYKVVKIEPLGVAPTKAKRRVVQREKRAVGTIGAMFLGFLGAAGSTMGATSMTLTVQARLLLSGIVQQQNNLLRAIEAQQHLLQLTVWGIKQLQARVLAVERYLRDQQLLGIWGCSGKLICTTTVPWNTSWSNKSLDKIWGNMTWMEWEREIDNYTSLIYTLIEESQNQQEKNEQELLELDKWASLWNWFNITNWLWYIKIFIMIVGGLVGLRIVFTVLSIVNRVRQGYSPLSFQTRLPSQRGPDRPEGIEEEGGERDRDRSGRLVDGFLAIIWVDXRSLCLFSYHRLRDLLLIVTRIVELLGRRGWEALKYWWNLLQYWSQELRNSAVSFVNATAIAVAEGTDRVIELLQRAFRAILHIPTRIRQGLERALQ |
| 6879 | sp|O95163|ELP1\_HUMAN | MRNLKLFRTLEFRDIQGPGNPQCFSLRTEQGTVLIGSEHGLIEVDPVSREVKNEVSLVAEGFLPEDGSGRIVGVQDLLDQESVCVATASGDVILCSLSTQQLECVGSVASGISVMSWSPDQELVLLATGQQTLIMMTKDFEPILEQQIHQDDFGESKFITVGWGRKETQFHGSEGRQAAFQMQMHESALPWDDHRPQVTWRGDGQFFAVSVVCPETGARKVRVWNREFALQSTSEPVAGLGPALAWKPSGSLIASTQDKPNQQDIVFFEKNGLLHGHFTLPFLKDEVKVNDLLWNADSSVLAVWLEDLQREESSIPKTCVQLWTVGNYHWYLKQSLSFSTCGKSKIVSLMWDPVTPYRLHVLCQGWHYLAYDWHWTTDRSVGDNSSDLSNVAVIDGNRVLVTVFRQTVVPPPMCTYQLLFPHPVNQVTFLAHPQKSNDLAVLDASNQISVYKCGDCPSADPTVKLGAVGGSGFKVCLRTPHLEKRYKIQFENNEDQDVNPLKLGLLTWIEEDVFLAVSHSEFSPRSVIHHLTAASSEMDEEHGQLNVSSSAAVDGVIISLCCNSKTKSVVLQLADGQIFKYLWESPSLAIKPWKNSGGFPVRFPYPCTQTELAMIGEEECVLGLTDRCRFFINDIEVASNITSFAVYDEFLLLTTHSHTCQCFCLRDASFKTLQAGLSSNHVSHGEVLRKVERGSRIVTVVPQDTKLVLQMPRGNLEVVHHRALVLAQIRKWLDKLMFKEAFECMRKLRINLNLIYDHNPKVFLGNVETFIKQIDSVNHINLFFTELKEEDVTKTMYPAPVTSSVYLSRDPDGNKIDLVCDAMRAVMESINPHKYCLSILTSHVKKTTPELEIVLQKVHELQGNAPSDPDAVSAEEALKYLLHLVDVNELYDHSLGTYDFDLVLMVAEKSQKDPKEYLPFLNTLKKMETNYQRFTIDKYLKRYEKAIGHLSKCGPEYFPECLNLIKDKNLYNEALKLYSPSSQQYQDISIAYGEHLMQEHMYEPAGLMFARCGAHEKALSAFLTCGNWKQALCVAAQLNFTKDQLVGLGRTLAGKLVEQRKHIDAAMVLEECAQDYEEAVLLLLEGAAWEEALRLVYKYNRLDIIETNVKPSILEAQKNYMAFLDSQTATFSRHKKRLLVVRELKEQAQQAGLDDEVPHGQESDLFSETSSVVSGSEMSGKYSHSNSRISARSSKNRRKAERKKHSLKEGSPLEDLALLEALSEVVQNTENLKDEVYHILKVLFLFEFDEQGRELQKAFEDTLQLMERSLPEIWTLTYQQNSATPVLGPNSTANSIMASYQQQKTSVPVLDAELFIPPKINRRTQWKLSLLD |
| 6880 | sp|P14756|ELAS\_PSEAE | MKKVSTLDLLFVAIMGVSPAAFAADLIDVSKLPSKAAQGAPGPVTLQAAVGAGGADELKAIRSTTLPNGKQVTRYEQFHNGVRVVGEAITEVKGPGKSVAAQRSGHFVANIAADLPGSTTAAVSAEQVLAQAKSLKAQGRKTENDKVELVIRLGENNIAQLVYNVSYLIPGEGLSRPHFVIDAKTGEVLDQWEGLAHAEAGGPGGNQKIGKYTYGSDYGPLIVNDRCEMDDGNVITVDMNSSTDDSKTTPFRFACPTNTYKQVNGAYSPLNDAHFFGGVVFKLYRDWFGTSPLTHKLYMKVHYGRSVENAYWDGTAMLFGDGATMFYPLVSLDVAAHEVSHGFTEQNSGLIYRGQSGGMNEAFSDMAGEAAEFYMRGKNDFLIGYDIKKGSGALRYMDQPSRDGRSIDNASQYYNGIDVHHSSGVYNRAFYLLANSPGWDTRKAFEVFVDANRYYWTATSNYNSGACGVIRSAQNRNYSAADVTRAFSTVGVTCPSAL |
| 6881 | sp|Q3UPW2|ELF3\_MOUSE | MAATCEISNVFSNYFNAMYSSEDPTLAPAPPTTFGTEDLVLTLNNQQMTLEGPGPQTRSQRDRTDPLAVLHLAEKASWTSERPQFWSKTQVLEWISYQVEKNKYDASSIDFSRCDMDGATLCSCALEELRLVFGPLGDQLHAQLRDLTSNSSDELSWIIELLEKDGMSFQESLGDSGPFDQGSPFAQELLDDGRQASPYYCSTYGPGAPSPGSSDVSTARTATPQSSHASDSGGSDVDLDLTESKVFPRDGFPDYKKGEPKHGKRKRGRPRKLSKEYWDCLEGKKSKHAPRGTHLWEFIRDILIHPELNEGLMKWENRHEGVFKFLRSEAVAQLWGQKKKNSNMTYEKLSRAMRYYYKREILERVDGRRLVYKFGKNSSGWKEEEVGESRN |
| 6882 | sp|P13002|ELF1\_DROME | MSTSTATTSVITSNELSLSGHAHGHGHAHQLHQHTHSRLGVGVGVGILSDASLSPIQQGSGGHSGGGNTNSSPLAPNGVPLLTTMHRSPDSPQPELATMTNVNVLDLHTDNSKLYDKEAVFIYETPKVVMPADGGGGNNSDEGHAIDARIAAQMGNQAQQQQQQQQQTEHQPLAKIEFDENQIIRVVGPNGEQQQIISREIINGEHHILSRNEAGEHILTRIVSDPSKLMPNDNAVATAMYNQAQKMNNDHGQAVYQTSPLPLDASVLHYSGGNDSNVIKTEADIYEDHKKHAAAAAAAAGGGSIIYTTSDPNGVNVKQLPHLTVPQKLDPDLYQADKHIDLIYNDGSKTVIYSTTDQKSLEIYSGGDIGSLVSDGQVVVQAGLPYATTTGAGGQPVYIVADGALPAGVEEHLQSGKLNGQTTPIDVSGLSQNEIQGFLLGSHPSSSATVSTTGVVSTTTISHHQQQQQQQQQQQQQQQQQHQQQQQHPGDIVSAAGVGSTGSIVSSAAQQQQQQQLISIKREPEDLRKDPKNGNIAGAATANGPGSVITQKILHVDAPTASEADRPSTPSSSINSTENTESDSQSVSGSESGSPGARTTATLEMYATTGGTQIYLQTSHPSTASGAGGGAGPAGAAGGGGVSMQAQSPSPGPYITANDYGMYTASRLPPGPPPTSTTTFIAEPSYYREYFAPDGQGGYVPASTRSLYGDVDVSVSQPGGVVTYEGRFAGSVPPPATTTVLTSVHHHQQQQQQQQQHQQQQQQQQHHQQQQHHSQDGKSNGGATPLYAKAITAAGLTVDLPSPDSGIGTDAITPRDQTNIQQSFDYTELCQPGTLIDANGSIPVSVNSIQQRTAVHGSQNSPTTSLVDTSTNGSTRSRPWHDFGRQNDADKIQIPKIFTNVGFRYHLESPISSSQRREDDRITYINKGQFYGITLEYVHDAEKPIKNTTVKSVIMLMFREEKSPEDEIKAWQFWHSRQHSVKQRILDADTKNSVGLVGCIEEVSHNAIAVYWNPLESSAKINIAVQCLSTDFSSQKGVKGLPLHVQIDTFEDPRDTAVFHRGYCQIKVFCDKGAERKTRDEERRAAKRKMTATGRKKLDELYHPVTDRSEFYGMQDFAKPPVLFSPAEDMEKVGQLGIGAATGMTFNPLSNGNSNSNSHSSLQSFYGHETDSPDLKGASPFLLHGQKVATPTLKFHNHFPPDMQTDKKDHILDQNMLTSTPLTDFGPPMKRGRMTPPTSERVMLYVRQENEEVYTPLHVVPPTTIGLLNAIENKYKISTTSINNIYRTNKKGITAKIDDDMISFYCNEDIFLLEVQQIEDDLYDVTLTELPNQ |
| 6883 | sp|Q7Z2Z2|EFL1\_HUMAN | MVLNSLDKMIQLQKNTANIRNICVLAHVDHGKTTLADCLISSNGIISSRLAGKLRYMDSREDEQIRGITMKSSAISLHYATGNEEYLINLIDSPGHVDFSSEVSTAVRICDGCIIVVDAVEGVCPQTQAVLRQAWLENIRPVLVINKIDRLIVELKFTPQEAYSHLKNILEQINALTGTLFTSKVLEERAERETESQVNPNSEQGEQVYDWSTGLEDTDDSHLYFSPEQGNVVFTSAIDGWGFGIEHFARIYSQKIGIKKEVLMKTLWGDYYINMKAKKIMKGDQAKGKKPLFVQLILENIWSLYDAVLKKDKDKIDKIVTSLGLKIGAREARHSDPKVQINAICSQWLPISHAVLAMVCQKLPSPLDITAERVERLMCTGSQTFDSFPPETQALKAAFMKCGSEDTAPVIIFVSKMFAVDAKALPQNKPRPLTQEEIAQRRERARQRHAEKLAAAQGQAPLEPTQDGSAIETCPKGEEPRGDEQQVESMTPKPVLQEENNQESFIAFARVFSGVARRGKKIFVLGPKYSPLEFLRRVPLGFSAPPDGLPQVPHMAYCALENLYLLMGRELEYLEEVPPGNVLGIGGLQDFVLKSATLCSLPSCPPFIPLNFEATPIVRVAVEPKHPSEMPQLVKGMKLLNQADPCVQILIQETGEHVLVTAGEVHLQRCLDDLKERFAKIHISVSEPIIPFRETITKPPKVDMVNEEIGKQQKVAVIHQMKEDQSKIPEGIQVDSDGLITITTPNKLATLSVRAMPLPEEVTQILEENSDLIRSMEQLTSSLNEGENTHMIHQKTQEKIWEFKGKLEQHLTGRRWRNIVDQIWSFGPRKCGPNILVNKSEDFQNSVWTGPADKASKEASRYRDLGNSIVSGFQLATLSGPMCEEPLMGVCFVLEKWDLSKFEEQGASDLAKEGQEENETCSGGNENQELQDGCSEAFEKRTSQKGESPLTDCYGPFSGQLIATMKEACRYALQVKPQRLMAAMYTCDIMATGDVLGRVYAVLSKREGRVLQEEMKEGTDMFIIKAVLPVAESFGFADEIRKRTSGLASPQLVFSHWEIIPSDPFWVPTTEEEYLHFGEKADSENQARKYMNAVRKRKGLYVEEKIVEHAEKQRTLSKNK |
| 6884 | sp|P01362|ELH1\_APLCA | MKRPNNRPTNTMSLILCLTLSSLCVSSQSASVHGKNFATNRAVKSSSPFVVLSPDDNVVSMSGENGYRSALREAFDKSSRDYDDNGEDVFSNEKRRLRFHKRRLRFDRRDQDEGNFRRFPTNAVSMSADENSPFDLSNEDGAVYQRDLRAPRLRFYSLRKRAAGGMEQSEGQNPETESHSRRKRSVLTPSLSSLGESLESGISKRISINQDLKAITDMLLTEQIRERQRYLADLRQRLLEKGKRSSGVSLLTSNKDEEQRELLKAISNLLD |
| 6885 | sp|P15396|ENPP3\_BOVIN | MQSTLNLSTEEPVKRNTVKKYKIICIVLLILLVAVSLALGLVAGLRQQEEQGSCRKKCFDASHRGLEGCRCDVGCKGRGDCCWDFEDTCVQSTQIWTCNKFRCGETRLESSLCSCSDDCLQRKDCCADYKSVCQGETSWVDEDCSTAQQPQCPEGFDLPPVILFSMDGFRAEYLQTWSTLVPNINKLKTCGVHSQYLRPAYPTKTFPNHYTIVTGLYPESHGIIDNNMYDINLNKNFSLSSKEKDNPAWWQGQPIWLTAMYQGLKVGTYFWPGSDVAINGTFPSIYKIYNRSVTYEERIFTLLKWLDLPKAERPDFYTIYVEEPDSQGHNYGPVSAGVIQALQLVDKTFGLLMEGLKQRNLVNCVNIILLADHGMDQTYCDKLEYMADYFSSINFYMFEGPAPRIRTRNIPQDFFTFNSEEIVRNLSCRKPDQHFKPYLSPDLPKRLHFAKNVRIDKVNLLVDRQWQAVRNRAYSYCGGGNHGYDNEFKSMEAIFLAHGPSFKQKTEVEPFDNIEVYNLLCDLLHIQPAPNNGTHGSLNHLLKVPFYEPSHAEELSKFSVCGFTVPLPTDTLGCSCSRLQTNSDLERVNQMLDLTQDEITATEKLNLPFGRPRLIQKNKEPCLLYHREYVSGFDKTLRMPLWSSYTVPKPGDTSPLPPTVPDCLRADVRVAPSESQNCSFSLADKNITHGFLYPPANNRTSNSQYDALITSNLVPMYEAFKTMWNYFHSVLLVKYAMERNGVNVVSGPVFDYDYDGHFDAPDEIADYAVNTSVPIPTHYFVVLTSCKNQSQTPDACTGWLDVLPFVIPHRPTNVESCPENKSESLWVEERFNVHTARVRDVELLTGLDFYQEKAQPVSEILQLKTYLPVFETVI |
| 6886 | sp|Q9NZ08|ERAP1\_HUMAN | MVFLPLKWSLATMSFLLSSLLALLTVSTPSWCQSTEASPKRSDGTPFPWNKIRLPEYVIPVHYDLLIHANLTTLTFWGTTKVEITASQPTSTIILHSHHLQISRATLRKGAGERLSEEPLQVLEHPRQEQIALLAPEPLLVGLPYTVVIHYAGNLSETFHGFYKSTYRTKEGELRILASTQFEPTAARMAFPCFDEPAFKASFSIKIRREPRHLAISNMPLVKSVTVAEGLIEDHFDVTVKMSTYLVAFIISDFESVSKITKSGVKVSVYAVPDKINQADYALDAAVTLLEFYEDYFSIPYPLPKQDLAAIPDFQSGAMENWGLTTYRESALLFDAEKSSASSKLGITMTVAHELAHQWFGNLVTMEWWNDLWLNEGFAKFMEFVSVSVTHPELKVGDYFFGKCFDAMEVDALNSSHPVSTPVENPAQIREMFDDVSYDKGACILNMLREYLSADAFKSGIVQYLQKHSYKNTKNEDLWDSMASICPTDGVKGMDGFCSRSQHSSSSSHWHQEGVDVKTMMNTWTLQKGFPLITITVRGRNVHMKQEHYMKGSDGAPDTGYLWHVPLTFITSKSDMVHRFLLKTKTDVLILPEEVEWIKFNVGMNGYYIVHYEDDGWDSLTGLLKGTHTAVSSNDRASLINNAFQLVSIGKLSIEKALDLSLYLKHETEIMPVFQGLNELIPMYKLMEKRDMNEVETQFKAFLIRLLRDLIDKQTWTDEGSVSERMLRSQLLLLACVHNYQPCVQRAEGYFRKWKESNGNLSLPVDVTLAVFAVGAQSTEGWDFLYSKYQFSLSSTEKSQIEFALCRTQNKEKLQWLLDESFKGDKIKTQEFPQILTLIGRNPVGYPLAWQFLRKNWNKLVQKFELGSSSIAHMVMGTTNQFSTRTRLEEVKGFFSSLKENGSQLRCVQQTIETIEENIGWMDKNFDKIRVWLQSEKLERM |
| 6887 | sp|Q96PL5|ERMAP\_HUMAN | MEMASSAGSWLSGCLIPLVFLRLSVHVSGHAGDAGKFHVALLGGTAELLCPLSLWPGTVPKEVRWLRSPFPQRSQAVHIFRDGKDQDEDLMPEYKGRTVLVRDAQEGSVTLQILDVRLEDQGSYRCLIQVGNLSKEDTVILQVAAPSVGSLSPSAVALAVILPVLVLLIMVCLCLIWKQRRAKEKLLYEHVTEVDNLLSDHAKEKGKLHKAVKKLRSELKLKRAAANSGWRRARLHFVAVTLDPDTAHPKLILSEDQRCVRLGDRRQPVPDNPQRFDFVVSILGSEYFTTGCHYWEVYVGDKTKWILGVCSESVSRKGKVTASPANGHWLLRQSRGNEYEALTSPQTSFRLKEPPRCVGIFLDYEAGVISFYNVTNKSHIFTFTHNFSGPLRPFFEPCLHDGGKNTAPLVICSELHKSEESIVPRPEGKGHANGDVSLKVNSSLLPPKAPELKDIILSLPPDLGPALQELKAPSF |
| 6888 | sp|Q7L5A8|FA2H\_HUMAN | MAPAPPPAASFSPSEVQRRLAAGACWVRRGARLYDLSSFVRHHPGGEQLLRARAGQDISADLDGPPHRHSANARRWLEQYYVGELRGEQQGSMENEPVALEETQKTDPAMEPRFKVVDWDKDLVDWRKPLLWQVGHLGEKYDEWVHQPVTRPIRLFHSDLIEGLSKTVWYSVPIIWVPLVLYLSWSYYRTFAQGNVRLFTSFTTEYTVAVPKSMFPGLFMLGTFLWSLIEYLIHRFLFHMKPPSDSYYLIMLHFVMHGQHHKAPFDGSRLVFPPVPASLVIGVFYLCMQLILPEAVGGTVFAGGLLGYVLYDMTHYYLHFGSPHKGSYLYSLKAHHVKHHFAHQKSGFGISTKLWDYCFHTLTPEKPHLKTQ |
| 6889 | sp|P38333|ENP1\_YEAST | MARASSTKARKQRHDPLLKDLDAAQGTLKKINKKKLAQNDAANHDAANEEDGYIDSKASRKILQLAKEQQDEIEGEELAESERNKQFEARFTTMSYDDEDEDEDEDEEAFGEDISDFEPEGDYKEEEEIVEIDEEDAAMFEQYFKKSDDFNSLSGSYNLADKIMASIREKESQVEDMQDDEPLANEQNTSRGNISSGLKSGEGVALPEKVIKAYTTVGSILKTWTHGKLPKLFKVIPSLRNWQDVIYVTNPEEWSPHVVYEATKLFVSNLTAKESQKFINLILLERFRDNIETSEDHSLNYHIYRAVKKSLYKPSAFFKGFLFPLVETGCNVREATIAGSVLAKVSVPALHSSAALSYLLRLPFSPPTTVFIKILLDKKYALPYQTVDDCVYYFMRFRILDDGSNGEDATRVLPVIWHKAFLTFAQRYKNDITQDQRDFLLETVRQRGHKDIGPEIRRELLAGASREFVDPQEANDDLMIDVN |
| 6890 | sp|Q9NZN3|EHD3\_HUMAN | MFSWLGTDDRRRKDPEVFQTVSEGLKKLYKSKLLPLEEHYRFHEFHSPALEDADFDNKPMVLLVGQYSTGKTTFIRYLLEQDFPGMRIGPEPTTDSFIAVMQGDMEGIIPGNALVVDPKKPFRKLNAFGNAFLNRFVCAQLPNPVLESISVIDTPGILSGEKQRISRGYDFAAVLEWFAERVDRIILLFDAHKLDISDEFSEVIKALKNHEDKMRVVLNKADQIETQQLMRVYGALMWSLGKIVNTPEVIRVYIGSFWSHPLLIPDNRKLFEAEEQDLFRDIQSLPRNAALRKLNDLIKRARLAKVHAYIISSLKKEMPSVFGKDNKKKELVNNLAEIYGRIEREHQISPGDFPNLKRMQDQLQAQDFSKFQPLKSKLLEVVDDMLAHDIAQLMVLVRQEESQRPIQMVKGGAFEGTLHGPFGHGYGEGAGEGIDDAEWVVARDKPMYDEIFYTLSPVDGKITGANAKKEMVRSKLPNSVLGKIWKLADIDKDGMLDDDEFALANHLIKVKLEGHELPNELPAHLLPPSKRKVAE |
| 6891 | sp|Q6UWR7|ENPP6\_HUMAN | MAVKLGTLLLALALGLAQPASARRKLLVFLLDGFRSDYISDEALESLPGFKEIVSRGVKVDYLTPDFPSLSYPNYYTLMTGRHCEVHQMIGNYMWDPTTNKSFDIGVNKDSLMPLWWNGSEPLWVTLTKAKRKVYMYYWPGCEVEILGVRPTYCLEYKNVPTDINFANAVSDALDSFKSGRADLAAIYHERIDVEGHHYGPASPQRKDALKAVDTVLKYMTKWIQERGLQDRLNVIIFSDHGMTDIFWMDKVIELNKYISLNDLQQVKDRGPVVSLWPAPGKHSEIYNKLSTVEHMTVYEKEAIPSRFYYKKGKFVSPLTLVADEGWFITENREMLPFWMNSTGRREGWQRGWHGYDNELMDMRGIFLAFGPDFKSNFRAAPIRSVDVYNVMCNVVGITPLPNNGSWSRVMCMLKGRASTAPPVWPSHCALALILLFLLA |
| 6892 | sp|G5EBV0|EGL9\_CAEEL | MSSAPNDDCEIDKGTPSTASLFTTLMLSQPSSSTAVLQCTYCGSSCTSSQLQTCLFCGTVAYCSKEHQQLDWLTHKMICKSLQTSGMVPSNLMPQAAPAVMAPIPPTVSFDDPALTTSLLLSLQNNPILNQTISNFPPTFSITSKTEPEPSIPIQIPQRISSTSTVPFSSEGSAFKPYRNTHVFNSISSESMSSMCTSHEASLEHMSSASLAMFPTSSTAQSDISRLAQVLSLAGDSPASLALVTTSVPSTASTATIPPPATTTSSATSSGKSETITVGKEKIIQTDDPDIQIIETEGGSKPTVSRTRKRPTPSNSADPKINYKDHNKNVVYSTTLQEHQKHLQNRGLALSIHQAMVLRLRYIAEHVIRSLNEFGWAVVDNFLGSDHYKFTAKEIERLYERGLFSPGQLMEAKHKDEFHIKDIRSDHIYWYDGYDGRAKDAATVRLLISMIDSVIQHFKKRIDHDIGGRSRAMLAIYPGNGTRYVKHVDNPVKDGRCITTIYYCNENWDMATDGGTLRLYPETSMTPMDIDPRADRLVFFWSDRRNPHEVMPVFRHRFAITIWYMDKSERDKALAKGKESDAACASKKENDPTSSSLNSLIGSLLRPRKNPSTHDLSKLDLRLFPSTSSDPALVSAADEDRVDISADFQSTSSLAHPESTDSGVSLSTFNVAHNHMERTTSLQSISDHFRSERSHERRSSTSSDQDLDEGLPPPPSTNPEYYI |
| 6893 | sp|P00748|FA12\_HUMAN | MRALLLLGFLLVSLESTLSIPPWEAPKEHKYKAEEHTVVLTVTGEPCHFPFQYHRQLYHKCTHKGRPGPQPWCATTPNFDQDQRWGYCLEPKKVKDHCSKHSPCQKGGTCVNMPSGPHCLCPQHLTGNHCQKEKCFEPQLLRFFHKNEIWYRTEQAAVARCQCKGPDAHCQRLASQACRTNPCLHGGRCLEVEGHRLCHCPVGYTGAFCDVDTKASCYDGRGLSYRGLARTTLSGAPCQPWASEATYRNVTAEQARNWGLGGHAFCRNPDNDIRPWCFVLNRDRLSWEYCDLAQCQTPTQAAPPTPVSPRLHVPLMPAQPAPPKPQPTTRTPPQSQTPGALPAKREQPPSLTRNGPLSCGQRLRKSLSSMTRVVGGLVALRGAHPYIAALYWGHSFCAGSLIAPCWVLTAAHCLQDRPAPEDLTVVLGQERRNHSCEPCQTLAVRSYRLHEAFSPVSYQHDLALLRLQEDADGSCALLSPYVQPVCLPSGAARPSETTLCQVAGWGHQFEGAEEYASFLQEAQVPFLSLERCSAPDVHGSSILPGMLCAGFLEGGTDACQGDSGGPLVCEDQAAERRLTLQGIISWGSGCGDRNKPGVYTDVAYYLAWIREHTVS |
| 6894 | sp|Q9UNN5|FAF1\_HUMAN | MASNMDREMILADFQACTGIENIDEAITLLEQNNWDLVAAINGVIPQENGILQSEYGGETIPGPAFNPASHPASAPTSSSSSAFRPVMPSRQIVERQPRMLDFRVEYRDRNVDVVLEDTCTVGEIKQILENELQIPVSKMLLKGWKTGDVEDSTVLKSLHLPKNNSLYVLTPDLPPPSSSSHAGALQESLNQNFMLIITHREVQREYNLNFSGSSTIQEVKRNVYDLTSIPVRHQLWEGWPTSATDDSMCLAESGLSYPCHRLTVGRRSSPAQTREQSEEQITDVHMVSDSDGDDFEDATEFGVDDGEVFGMASSALRKSPMMPENAENEGDALLQFTAEFSSRYGDCHPVFFIGSLEAAFQEAFYVKARDRKLLAIYLHHDESVLTNVFCSQMLCAESIVSYLSQNFITWAWDLTKDSNRARFLTMCNRHFGSVVAQTIRTQKTDQFPLFLIIMGKRSSNEVLNVIQGNTTVDELMMRLMAAMEIFTAQQQEDIKDEDEREARENVKREQDEAYRLSLEADRAKREAHEREMAEQFRLEQIRKEQEEEREAIRLSLEQALPPEPKEENAEPVSKLRIRTPSGEFLERRFLASNKLQIVFDFVASKGFPWDEYKLLSTFPRRDVTQLDPNKSLLEVKLFPQETLFLEAKE |
| 6895 | sp|O88947|FA10\_MOUSE | MGSPVQLSLLCVVLASLLLPGKGVFINRERANNVLARTRRANSFFEEFKKGNLERECMEEICSYEEVREIFEDDEKTKEYWTKYKDGDQCESSPCQNQGACRDGIGGYTCTCSEGFEGKNCELFVRKLCRLDNGDCDQFCREEQNSVVCSCASGYFLGNDGKSCISTAPFPCGKITTGRRKRSVALNTSDSELDLEDALLDEDFLSPTENPIELLNLNETQPERSSDDLVRIVGGRECKDGECPWQALLINEDNEGFCGGTILNEFYILTAAHCLHQARRFKVRVGDRNTEKEEGNEMVHEVDVVIKHNKFQRDTYDYDIAVLRLKTPITFRMNVAPACLPQKDWAESTLMTQKTGIVSGFGRTHEKGRQSNILKMLEVPYVDRNTCKLSTSFSITQNMFCAGYEAKLEDACQGDSGGPHVTRFKNTYYVTGIVSWGEGCARKGKYGIYTKVTTFLKWIDRSMKARVGPTAETPRTAGPPN |
| 6896 | sp|Q80V62|FACD2\_MOUSE | MISKRRRLDSEDKENLTEDASKTMPLSKLAKKSHNSHEVEENGSVFVKLLKASGLTLKTGENQNQLGVDQVIFQRKLFQALRKHPAYPKVIEEFVNGLESYTEDSESLRNCLLSCERLQDEEASMGTFYSKSLIKLLLGIDILQPAIIKMLFEKVPQFLFESENRDGINMARLIINQLKWLDRIVDGKDLTAQMMQLISVAPVNLQHDFITSLPEILGDSQHANVGKELGELLVQNTSLTVPILDVFSSLRLDPNFLSKIRQLVMGKLSSVRLEDFPVIVKFLLHSVTDTTSLEVIAELRENLNVQQFILPSRIQASQSKLKSKGLASSSGNQENSDKDCIVLVFDVIKSAIRYEKTISEAWFKAIERIESAAEHKALDVVMLLIIYSTSTQTKKGVEKLLRNKIQSDCIQEQLLDSAFSTHYLVLKDICPSILLLAQTLFHSQDQRIILFGSLLYKYAFKFFDTYCQQEVVGALVTHVCSGTEAEVDTALDVLLELIVLNASAMRLNAAFVKGILDYLENMSPQQIRKIFCILSTLAFSQQPGTSNHIQDDMHLVIRKQLSSTVFKYKLIGIIGAVTMAGIMAEDRSVPSNSSQRSANVSSEQRTQVTSLLQLVHSCTEHSPWASSLYYDEFANLIQERKLAPKTLEWVGQTIFNDFQDAFVVDFCAAPEGDFPFPVKALYGLEEYSTQDGIVINLLPLFYQECAKDASRATSQESSQRSMSSLCLASHFRLLRLCVARQHDGNLDEIDGLLDCPLFLPDLEPGEKLESMSAKDRSLMCSLTFLTFNWFREVVNAFCQQTSPEMKGKVLSRLKDLVELQGILEKYLAVIPDYVPPFASVDLDTLDMMPRSSSAVAAKNRNKGKTGGKKQKADSNKASCSDTLLTEDTSECDMAPSGRSHVDKESTGKEGKTFVSLQNYRAFFRELDIEVFSILHSGLVTKFILDTEMHTEATEVVQLGPAELLFLLEDLSQKLENMLTAPFAKRICCFKNKGRQNIGFSHLHQRSVQDIVHCVVQLLTPMCNHLENIHNFFQCLGAEHLSADDKARATAQEQHTMACCYQKLLQVLHALFAWKGFTHQSKHRLLHSALEVLSNRLKQMEQDQPLEELVSQSFSYLQNFHHSVPSFQCGLYLLRLLMALLEKSAVPNQKKEKLASLAKQLLCRAWPHGEKEKNPTFNDHLHDVLYIYLEHTDNVLKAIEEITGVGVPELVSAPKDAASSTFPTLTRHTFVIFFRVMMAELEKTVKGLQAGTAADSQQVHEEKLLYWNMAVRDFSILLNLMKVFDSYPVLHVCLKYGRRFVEAFLKQCMPLLDFSFRKHREDVLSLLQTLQLNTRLLHHLCGHSKIRQDTRLTKHVPLLKKSLELLVCRVKAMLVLNNCREAFWLGTLKNRDLQGEEIISQDPSSSESNAEDSEDGVTSHVSRNRATEDGEDEASDEQKDQDSDESDDSSS |
| 6897 | sp|P9WNK7|ESXA\_MYCTU | MTEQQWNFAGIEAAASAIQGNVTSIHSLLDEGKQSLTKLAAAWGGSGSEAYQGVQQKWDATATELNNALQNLARTISEAGQAMASTEGNVTGMFA |
| 6898 | sp|Q9W197|5NT3B\_DROME | MGFDEKREPTGGRLRLQDIPALTQDHCRMRDPAEVERIINEFVIGGPERMQIVSDFDYTITKQRTEDGGAVPSSFGIFNACQSLPENFKAETDKLYHKYRPIEIDPHMPIAEKVQYMIEWWTKSGELTSGFPFDQSEIDQIASKYTHALRDRTHEFFADLQRLGIPTLVFSAGLGNSVVSVLRQANVLHPNVKVVSNFLQFRDGLLDGFQQPMIHTFNKNETVLNETSEYYDLVHTRDHIIVMGDSIGDADMASGVPASSHIMKIGFLFDHVEANMKKYMDTFDIVLVDDQTMDVPRTLLSLIEKQHKLNLEAPKQSSL |
| 6899 | sp|Q6Q2Z6|ACOT5\_MOUSE | MVPTVSLEPTGHSCWDEPLSIAVRGLAPEQPVTLRTALRDEKGALFRAHARYRADSHGELDLARTPALGGSFSGLEPMGLLWAMEPDRPFWRLIKRDVQTPFVVELEVLDGHEPDGGRLLARAVHERHFMAPGVRRVPVREGRVRATLFLPPGTGPFPGIIDLFGVGGGLLEYRASLLAGKGFAVMALAYYKYDDLPKVIDILHLEYFEEAVTYLLSHPQVKGPGVGLLGISKGAELSLSMASFLKGITAAVVINGATVNVISTLYYKEESLPGLGMHLERIKVTKDGFKDIIDILNVPLEAPDQKSLIPLERSDTAFLFLVGQDDHNWKSEFYAREASKRLQAHGKEKPQIVCYPKTGHHIEPPYIPWSIAAPHSYFDKPILLGGEPRAHAMAQVDAWQRLQTFFHKHLSGDKRPSPAKL |
| 6900 | sp|Q38951|2AAG\_ARATH | MSMVDEPLYPIAVLIDELKNDDIQRRLNSIKRLSIIARALGEERTRKELIPFLSENNDDDDEVLLAMAEELGGFILYVGGVEYAYVLLPPLETLSTVEETCVREKAVDSLCRIGAQMRESDLVEHFTPLAKRLSAGEWFTARVSACGIFHIAYPSAPDVLKTELRSIYGQLCQDDMPMVRRAAATNLGKFAATIESAHLKTDIMSMFEDLTQDDQDSVRLLAVEGCAALGKLLEPQDCVAHILPVIVNFSQDKSWRVRYMVANQLYELCEAVGPEPTRTDLVPAYARLLCDNEAEVRIAAAGKVTKFCRILNPELAIQHILPCVKELSSDSSQHVRSALASVIMGMAPVLGKDATIEHLLPIFLSLLKDEFPDVRLNIISKLDQVNQVIGIDLLSQSLLPAIVELAEDRHWRVRLAIIEYIPLLASQLGVGFFDEKLGALCMQWLQDKVHSIREAAANNLKRLAEEFGPEWAMQHIVPQVLEMINNPHYLYRMTILRAVSLLAPVMGSEITCSKLLPAVITASKDRVPNIKFNVAKMMQSLIPIVDQAVVENMIRPCLVELSEDPDVDVRYFANQALQSIDNVMMSS |
| 6901 | sp|P12807|AMO\_PICAN | MERLRQIASQATAASAAPARPAHPLDPLSTAEIKAATNTVKSYFAGKKISFNTVTLREPARKAYIQWKEQGGPLPPRLAYYVILEAGKPGVKEGLVDLASLSVIETRALETVQPILTVEDLCSTEEVIRNDPAVIEQCVLSGIPANEMHKVYCDPWTIGYDERWGTGKRLQQALVYYRSDEDDSQYSHPLDFCPIVDTEEKKVIFIDIPNRRRKVSKHKHANFYPKHMIEKVGAMRPEAPPINVTQPEGVSFKMTGNVMEWSNFKFHIGFNYREGIVLSDVSYNDHGNVRPIFHRISLSEMIVPYGSPEFPHQRKHALDIGEYGAGYMTNPLSLGCDCKGVIHYLDAHFSDRAGDPITVKNAVCIHEEDDGLLFKHSDFRDNFATSLVTRATKLVVSQIFTAANYEYCLYWVFMQDGAIRLDIRLTGILNTYILGDDEEAGPWGTRVYPNVNAHNHQHLFSLRIDPRIDGDGNSAAACDAKSSPYPLGSPENMYGNAFYSEKTTFKTVKDSLTNYESATGRSWDIFNPNKVNPYSGKPPSYKLVSTQCPPLLAKEGSLVAKRAPWASHSVNVVPYKDNRLYPSGDHVPQWSGDGVRGMREWIGDGSENIDNTDILFFHTFGITHFPAPEDFPLMPAEPITLMLRPRHFFTENPGLDIQPSYAMTTSEAKRAVHKETKDKTSRLAFEGSCCGK |
| 6902 | sp|Q8GAK7|ALDH\_PAENI | MAIATIDPTTGITLKTFDAHTPEEVENRIARAEAAFRSLQNTSFEERARWMHKAADILESEADEVARLIATEMGKTLTTAKYEALKSATGMRHFADHAQRYLSPETPVPASEVNASNLHVQFDPLGVVLAVMPWNYPLWQAVRFAAPALMAGNTGLLKHASNVPQCALYLGDLFARGGFPEGAFQTLLVEGKDVIPLVDDARIRAVTLTGSVAAGSAIAEAAGRNIKRSVLELGGMDVFIVMPSADIEKAAAQAVIARLQNSGQSCIAAKRFYVHEDVYDRFEHLFVTGMAEAVAGDPLDESTSFGPLATERGRQDVHELVRDAREKGAAVQCGGEIPEGEGWYYPATVLTGVTEDMRIYREECFGPVACLYKVSSLQEAIALSNDSDFGLSSSVWTNDETEATEAARSIEAGGVFINGLTASFPAVPFGGLKDSGYGRELSAYGIREFVNIKTVWTS |
| 6903 | sp|Q8N5Z0|AADAT\_HUMAN | MNYARFITAASAARNPSPIRTMTDILSRGPKSMISLAGGLPNPNMFPFKTAVITVENGKTIQFGEEMMKRALQYSPSAGIPELLSWLKQLQIKLHNPPTIHYPPSQGQMDLCVTSGSQQGLCKVFEMIINPGDNVLLDEPAYSGTLQSLHPLGCNIINVASDESGIVPDSLRDILSRWKPEDAKNPQKNTPKFLYTVPNGNNPTGNSLTSERKKEIYELARKYDFLIIEDDPYYFLQFNKFRVPTFLSMDVDGRVIRADSFSKIISSGLRIGFLTGPKPLIERVILHIQVSTLHPSTFNQLMISQLLHEWGEEGFMAHVDRVIDFYSNQKDAILAAADKWLTGLAEWHVPAAGMFLWIKVKGINDVKELIEEKAVKMGVLMLPGNAFYVDSSAPSPYLRASFSSASPEQMDVAFQVLAQLIKESL |
| 6904 | sp|Q7TNJ4|AMGO2\_RAT | MSLRFHTLPTLPRAVKPGCRELLCLLVIAVMVSPSSSGLCPTACICATDIVSCTNKNLSKVPGNLFRLIKRLDLSYNRIGLLDADWIPVSFVKLSTLIVRHNNITSISTGSFSTTPNLKCLDLSSNRLKSVKSAMFQELKVLEVLLLYNNHISYLDPAAFGGLSHLQKLYLSGNFLTKFPMDLYVGRFKLADLTFLDVSYNQIASIPMHHINLVPGKQLRGIFLHGNPFVCDCSLYSLLTFWYRRHFNSVTDFKHDYTCRLWLDSRHSHQLLLLQDSFLNCSHSVINGSFHALGFIHEAQVGERAIVHCDGKTGNGNTDFIWVGPDNRLLEPDKDTGNFRVFYNGSLVIENPGFEDAGVYSCIAMNRQRLLNETVDIMINVSNFTINRSHHAHEAFNTAFTTLAACVVSIVLVLLYLYLTPCPCKCRDKRQKNALNQSNAHSSILSPGPTRDASAEDRKAGKRVVFLEPLKDPAVGQNGKVKLVPSKTVIAEGILKSSRAKSDSDSVNSVFSDTPFVAST |
| 6905 | sp|P06525|ADH1\_ARATH | MSTTGQIIRCKAAVAWEAGKPLVIEEVEVAPPQKHEVRIKILFTSLCHTDVYFWEAKGQTPLFPRIFGHEAGGIVESVGEGVTDLQPGDHVLPIFTGECGECRHCHSEESNMCDLLRINTERGGMIHDGESRFSINGKPIYHFLGTSTFSEYTVVHSGQVAKINPDAPLDKVCIVSCGLSTGLGATLNVAKPKKGQSVAIFGLGAVGLGAAEGARIAGASRIIGVDFNSKRFDQAKEFGVTECVNPKDHDKPIQQVIAEMTDGGVDRSVECTGSVQAMIQAFECVHDGWGVAVLVGVPSKDDAFKTHPMNFLNERTLKGTFFGNYKPKTDIPGVVEKYMNKELELEKFITHTVPFSEINKAFDYMLKGESIRCIITMGA |
| 6906 | sp|Q68CP9|ARID2\_HUMAN | MANSTGKAPPDERRKGLAFLDELRQFHHSRGSPFKKIPAVGGKELDLHGLYTRVTTLGGFAKVSEKNQWGEIVEEFNFPRSCSNAAFALKQYYLRYLEKYEKVHHFGEDDDEVPPGNPKPQLPIGAIPSSYNYQQHSVSDYLRQSYGLSMDFNSPNDYNKLVLSLLSGLPNEVDFAINVCTLLSNESKHVMQLEKDPKIITLLLANAGVFDDTLGSFSTVFGEEWKEKTDRDFVKFWKDIVDDNEVRDLISDRNKSHEGTSGEWIWESLFHPPRKLGINDIEGQRVLQIAVILRNLSFEEGNVKLLAANRTCLRFLLLSAHSHFISLRQLGLDTLGNIAAELLLDPVDFKTTHLMFHTVTKCLMSRDRFLKMRGMEILGNLCKAEDNGVLICEYVDQDSYREIICHLTLPDVLLVISTLEVLYMLTEMGDVACTKIAKVEKSIDMLVCLVSMDIQMFGPDALAAVKLIEHPSSSHQMLSEIRPQAIEQVQTQTHVASAPASRAVVAQHVAPPPGIVEIDSEKFACQWLNAHFEVNPDCSVSRAEMYSEYLSTCSKLARGGILTSTGFYKCLRTVFPNHTVKRVEDSSSNGQAHIHVVGVKRRAIPLPIQMYYQQQPVSTSVVRVDSVPDVSPAPSPAGIPHGSQTIGNHFQRTPVANQSSNLTATQMSFPVQGVHTVAQTVSRIPQNPSPHTHQQQNAPVTVIQSKAPIPCEVVKATVIQNSIPQTGVPVSIAVGGGPPQSSVVQNHSTGPQPVTVVNSQTLLHHPSVIPQQSPLHTVVPGQIPSGTPVTVIQQAVPQSHMFGRVQNIPACTSTVSQGQQLITTSPQPVQTSSQQTSAGSQSQDTVIIAPPQYVTTSASNIVSATSVQNFQVATGQMVTIAGVPSPQASRVGFQNIAPKPLPSQQVSSTVVQQPIQQPQQPTQQSVVIVSQPAQQGQTYAPAIHQIVLANPAALPAGQTVQLTGQPNITPSSSPSPVPATNNQVPTAMSSSSTPQSQGPPPTVSQMLSVKRQQQQQHSPAPPPQQVQVQVQQPQQVQMQVQPQQSNAGVGQPASGESSLIKQLLLPKRGPSTPGGKLILPAPQIPPPNNARAPSPQVVYQVASNQAAGFGVQGQTPAQQLLVGQQNVQLVPSAMPPSGGVQTVPISNLQILPGPLISNSPATIFQGTSGNQVTITVVPNTSFAPATVSQGNATQLIAPAGITMSGTQTGVGLPVQTLPATQASPAGQSSCTTATPPFKGDKIICQKEEEAKEATGLHVHERKIEVMENPSCRRGATNTSNGDTKENEMHVGSLLNGRKYSDSSLPPSNSGKIQSETNQCSLISNGPSLELGENGASGKQNSEQIDMQDIKSDLRKPLVNGICDFDKGDGSHLSKNIPNHKTSNHVGNGEISPMEPQGTLDITQQDTAKGDQLERISNGPVLTLGGSSVSSIQEASNAATQQFSGTDLLNGPLASSLNSDVPQQRPSVVVSPHSTTSVIQGHQIIAVPDSGSKVSHSPALSSDVRSTNGTAECKTVKRPAEDTDRETVAGIPNKVGVRIVTISDPNNAGCSATMVAVPAGADPSTVAKVAIESAVQQKQQHPPTYVQNVVPQNTPMPPSPAVQVQGQPNSSQPSPFSGSSQPGDPMRKPGQNFMCLWQSCKKWFQTPSQVFYHAATEHGGKDVYPGQCLWEGCEPFQRQRFSFITHLQDKHCSKDALLAGLKQDEPGQAGSQKSSTKQPTVGGTSSTPRAQKAIVNHPSAALMALRRGSRNLVFRDFTDEKEGPITKHIRLTAALILKNIGKYSECGRRLLKRHENNLSVLAISNMEASSTLAKCLYELNFTVQSKEQEKDSEMLQ |
| 6907 | sp|Q9Z0F8|ADA17\_MOUSE | MRRRLLILTTLVPFVLAPRPPEEAGSGSHPRLEKLDSLLSDYDILSLANIQQHSIRKRDLQSATHLETLLTFSALKRHFKLYLTSSTERFSQNLRVVVVDGKEESEYSVKWQNFFSGHVVGEPDSRVLAHIGDDDVTVRINTDGAEYNVEPLWRFVNDTKDKRMLVYKSEDIKDFSRLQSPKVCGYLNADSEELLPKGLIDREPSEEFVRRVKRRAEPNPLKNTCKLLVVADHRFYKYMGRGEESTTTNYLIELIDRVDDIYRNTSWDNAGFKGYGVQIEQIRILKSPQEVKPGERHFNMAKSFPNEEKDAWDVKMLLEQFSFDIAEEASKVCLAHLFTYQDFDMGTLGLAYVGSPRANSHGGVCPKAYYNPTVKKNIYLNSGLTSTKNYGKTILTKEADLVTTHELGHNFGAEHDPDGLAECAPNEDQGGKYVMYPIAVSGDHENNKMFSNCSKQSIYKTIESKAQECFQERSNKVCGNSRVDEGEECDPGIMYLNNDTCCNSDCTLKPGVQCSDRNSPCCKNCQFETAQKKCQEAINATCKGVSYCTGNSSECPPPGDAEDDTVCLDLGKCKAGKCIPFCKREQELESCACVDTDNSCKVCCRNLSGPCVPYVDAEQKNLFLRKGKPCTVGFCDMNGKCEKRVQDVIERFWDFIDQLSINTFGKFLADNIVGSVLVFSLIFWIPFSILVHCVDKKLDKQYESLSLFHHSNIEMLSSMDSASVRIIKPFPAPQTPGRLQALQPAAMMPPVPAAPKLDHQRMDTIQEDPSTDSHADDDGFEKDPFPNSSTAAKSFEDLTDHPVTRSEKAASFKLQRQSRVDSKETEC |
| 6908 | sp|Q9H0R1|AP5M1\_HUMAN | MAQRAVWLISHEPGTPLCGTVRFSRRYPTVEKRARVFNGASYVPVPEDGPFLKALLFELRLLDDDKDFVESRDSCSRINKTSIYGLLIGGEELWPVVAFLKNDMIYACVPLVEQTLSPRPPLISVSGVSQGFEFLFGIQDFLYSGQKNDSELNTKLSQLPDLLLQACPFGTLLDANLQNSLDNTNFASVTQPQKQPAWKTGTYKGKPQVSISITEKVKSMQYDKQGIADTWQVVGTVTCKCDLEGIMPNVTISLSLPTNGSPLQDILVHPCVTSLDSAILTSSSIDAMDDSAFSGPYKFPFTPPLESFNLCFYTSQVPVPPILGFYQMKEEEVQLRITINLKLHESVKNNFEFCEAHIPFYNRGPITHLEYKTSFGQLEVFREKSLLIWIIGQKFPKSMEISLSGTVTFGAKSHEKQPFDPICTGETAYLKLHFRILDYTLTGCYADQHSVQVFASGKPKISAHRKLISSDYYIWNSKAPAPVTYGSLLL |
| 6909 | sp|Q99856|ARI3A\_HUMAN | MKLQAVMETLLQRQQRARQELEARQQLPPDPPAAPPGRARAAPDEDREPESARMQRAQMAALAAMRAAAAGLGHPASPGGSEDGPPGSEEEDAAREGTPGSPGRGREGPGEEHFEDMASDEDMKPKWEEEEMEEDLGEDEEEEEEDYEDEEEEEDEEGLGPPGPASLGTTALFPRKAQPPQAFRGDGVPRVLGGQERPGPGPAHPGGAAHVAPQLQPPDHGDWTYEEQFKQLYELDGDPKRKEFLDDLFSFMQKRGTPVNRIPIMAKQVLDLFMLYVLVTEKGGLVEVINKKLWREITKGLNLPTSITSAAFTLRTQYMKYLYPYECEKRGLSNPNELQAAIDSNRREGRRQSFGGSLFAYSPGGAHGMLSSPKLPVSSLGLAASTNGSSITPAPKIKKEEDSAIPITVPGRLPVSLAGHPVVAAQAAAVQAAAAQAAVAAQAAALEQLREKLESAEPPEKKMALVADEQQRLMQRALQQNFLAMAAQLPMSIRINSQASESRQDSAVNLTGTNGSNSISMSVEINGIMYTGVLFAQPPAPTPTSAPNKGGGGGGGSSSNAGGRGGNTGTSGGQAGPAGLSTPSTSTSNNSLP |
| 6910 | sp|P29374|ARI4A\_HUMAN | MKAADEPAYLTVGTDVSAKYRGAFCEAKIKTVKRLVKVKVLLKQDNTTQLVQDDQVKGPLRVGAIVETRTSDGSFQEAIISKLTDASWYTVVFDDGDERTLRRTSLCLKGERHFAESETLDQLPLTNPEHFGTPVIAKKTNRGRRSSLPVTEDEKEEESSEEEDEDKRRLNDELLGKVVSVVSATERTEWYPALVISPSCNDDITVKKDQCLVRSFIDSKFYSIARKDIKEVDILNLPESELSTKPGLQKASIFLKTRVVPDNWKMDISEILESSSSDDEDGPAEENDEEKEKEAKKTEEEVPEEELDPEERDNFLQQLYKFMEDRGTPINKPPVLGYKDLNLFKLFRLVYHQGGCDNIDSGAVWKQIYMDLGIPILNSAASYNVKTAYRKYLYGFEEYCRSANIQFRTVHHHEPKVKEEKKDLEESMEEALKLDQEMPLTEVKSEPEENIDSNSESEREEIELKSPRGRRRIARDVNSIKKEIEEEKTEDKLKDNDTENKDVDDDYETAEKKENELLLGRKNTPKQKEKKIKKQEDSDKDSDEEEEKSQEREETESKCDSEGEEDEEDMEPCLTGTKVKVKYGRGKTQKIYEASIKSTEIDDGEVLYLVHYYGWNVRYDEWVKADRIIWPLDKGGPKKKQKKKAKNKEDSEKDEKRDEERQKSKRGRPPLKSTLSSNMPYGLSKTANSEGKSDSCSSDSETEDALEKNLINEELSLKDELEKNENLNDDKLDEENPKISAHILKENDRTQMQPLETLKLEVGENEQIVQIFGNKMEKTEEVKKEAEKSPKGKGRRSKTKDLSLEIIKISSFGQNEAGSEPHIEAHSLELSSLDNKNFSSATEDEIDQCVKEKKLKRKILGQSSPEKKIRIENGMEMTNTVSQERTSDCIGSEGMKNLNFEQHFERENEGMPSLIAESNQCIQQLTSERFDSPAEETVNIPLKEDEDAMPLIGPETLVCHEVDLDDLDEKDKTSIEDVAVESSESNSLVSIPPALPPVVQHNFSVASPLTLSQDESRSVKSESDITIEVDSIAEESQEGLCERESANGFETNVASGTCSIIVQERESREKGQKRPSDGNSGLMAKKQKRTPKRTSAAAKNEKNGTGQSSDSEDLPVLDNSSKCTPVKHLNVSKPQKLARSPARISPHIKDGEKDKHREKHPNSSPRTYKWSFQLNELDNMNSTERISFLQEKLQEIRKYYMSLKSEVATIDRRRKRLKKKDREVSHAGASMSSASSDTGMSPSSSSPPQNVLAVECR |
| 6911 | sp|Q9I3T5|APAH1\_PSEAE | MLSVYSDDHRLHFGQSELVDGKLQPCFEMPSRADTVLARVKSQNLGEVIAPKDFGREPLLRLHDAAYLDFLQGAWARWTAEGHSGDLVSTTFPGRRLRRDGPIPTALMGELGYYSFDTEAPITAGTWQAIYSSAQVALTAQEHMRQGARSAFALCRPPGHHAGGDFMGGYCFLNNAAIATQAFLDQGARRVAILDVDYHHGNGTQDIFYRRDDVLFASIHGDPRVEYPYFLGYADERGEGAGEGCNHNYPLAHGSGWDLWSAALDDACVRIAGYAPDALVISLGVDTYKEDPISQFRLDSPDYLRMGERIARLGLPTLFIMEGGYAVEAIGINAVNVLQGYEGAAR |
| 6912 | sp|Q96BM9|ARL8A\_HUMAN | MIALFNKLLDWFKALFWKEEMELTLVGLQYSGKTTFVNVIASGQFNEDMIPTVGFNMRKITKGNVTIKLWDIGGQPRFRSMWERYCRGVSAIVYMVDAADQEKIEASKNELHNLLDKPQLQGIPVLVLGNKRDLPGALDEKELIEKMNLSAIQDREICCYSISCKEKDNIDITLQWLIQHSKSRRS |
| 6913 | sp|Q9Y6Q5|AP1M2\_HUMAN | MSASAVFILDVKGKPLISRNYKGDVAMSKIEHFMPLLVQREEEGALAPLLSHGQVHFLWIKHSNLYLVATTSKNANASLVYSFLYKTIEVFCEYFKELEEESIRDNFVIVYELLDELMDFGFPQTTDSKILQEYITQQSNKLETGKSRVPPTVTNAVSWRSEGIKYKKNEVFIDVIESVNLLVNANGSVLLSEIVGTIKLKVFLSGMPELRLGLNDRVLFELTGRSKNKSVELEDVKFHQCVRLSRFDNDRTISFIPPDGDFELMSYRLSTQVKPLIWIESVIEKFSHSRVEIMVKAKGQFKKQSVANGVEISVPVPSDADSPRFKTSVGSAKYVPERNVVIWSIKSFPGGKEYLMRAHFGLPSVEKEEVEGRPPIGVKFEIPYFTVSGIQVRYMKIIEKSGYQALPWVRYITQSGDYQLRTS |
| 6914 | sp|Q9EPV5|APAF\_RAT | MDAKARNCLLQHKEALEKDIKTSYIMDHMISNGVLTVVEEEKVKSQATQYQRAAALIKMILNKDNYAYISFYNALLHEGYKDLAGLLHSGLPLVSSSSGKDTDGGNTSFVRTVLCEGGVPQRPVIFVTRKKLVSAIQQKLWKLNGEPGWVTIYGMAGCGKSVLAAEAVRDHALLEGCFSGGVHWVSIGKQDKSGLLMKLQNLCTRLGQEESFSQRLPLNIEEAKDRLRVLMLRKHPRSLLILDDVWDPWVLKAFDNQCQILLTTRDKSVTDSVMGPKYVIPVESGLGKEKGLEILSLFVNMKKEDLPVEAHSIIKECKGSPLVVSLVGALLRDFPNRWAYYLRQLQNKQFKRIRKSSSYDYEALDEAMSISVEMLREDIKDYYTDLSILQKDVKVPTKVLCVLWDLETEEVEDILQEFVNKSLLFCNRNGKSFCYYLHDLQVDFLTEKNRSQLQDLHRKMVTQFQRYHQPHTLSPGQEDCMYWYNFLAYHMASAGMHKELCALMFSLDWIKAKTELVGPAHLIHEFVEYRHILDEKDCAVCENFQEFLSLNGHLLGRQPFPNIVQLGLCEPETSEVYQQAKLQAKQEVDTGRLYLEWINKKTIKNLSRLVVRPHTDAVYHACFSQDGQRIASCGADKTLQVFKAETGEKLLDIKAHEDEVLCCAFSSDDSYIATCSVDKKVKIWDSGTGKLVHTYEEHSEQVNCCHFTNKSNHLLLATGSNDSFLKLWDLNQKECRNTMFGHTNSVTHCRFSPDDELLASCSADGTLKLWDVRSANEKKSINVKRFFLSSEDPPEDVEVIVKCCSWSADGDRIIVAAKNKVLLLDIHTSGLLTEIHTGHHSTIQYCDFSPYDHLAVIALSQYCVELWNIDSRVKVADCRGHLSWVHGVMFSPDGSSFLTASDDQTIRVWETRKVCKNSAIVLKQEIDVVFQENEMMVLAVDNIRGLQLIAGKTGQIDYLPEAQVSCCCLSPHLEYVAFGDEEGAIKIIELPNNRVFSSGIGHKKAVRHIQFTADGKTLISSSEDSVIQVWNWQTEEYVFLQAHQETVKDFRLLRDSRLLSWSFDGTVKVWNVITGRIERDFTCHQGTVLSCAISSDATKFSSTSADKTAKIWSFELPSPLHELKGHNSCVRCSAFSLDGILLATGDDNGEIRIWNVSDGQLLHLCAPISIEEGTATHGGWVTDVCFSPDRKMLVSAGGYLKWWNVVTGESSQTFYTNGTNLKKIHVSPDFRTYVTVDNLGILYILQVLE |
| 6915 | sp|P63261|ACTG\_HUMAN | MEEEIAALVIDNGSGMCKAGFAGDDAPRAVFPSIVGRPRHQGVMVGMGQKDSYVGDEAQSKRGILTLKYPIEHGIVTNWDDMEKIWHHTFYNELRVAPEEHPVLLTEAPLNPKANREKMTQIMFETFNTPAMYVAIQAVLSLYASGRTTGIVMDSGDGVTHTVPIYEGYALPHAILRLDLAGRDLTDYLMKILTERGYSFTTTAEREIVRDIKEKLCYVALDFEQEMATAASSSSLEKSYELPDGQVITIGNERFRCPEALFQPSFLGMESCGIHETTFNSIMKCDVDIRKDLYANTVLSGGTTMYPGIADRMQKEITALAPSTMKIKIIAPPERKYSVWIGGSILASLSTFQQMWISKQEYDESGPSIVHRKCF |
| 6916 | sp|A2SW69|ANXA2\_SHEEP | MSTVHEILCKLSLEGDHSTPPSAYGSVKAYTNFDAERDALNIETAIKTKGVDEVTIVNILTNRSNEQRQDIAFAYQRRTKKELASALKSALSGHLETVILGLLKTPAQYDASELKASMKGLGTDEDSLIEIICSRTNQELQEINRVYKEMYKTDLEKDIVSDTSGDFRKLMVALAKGRRAEDGSVIDYELIDQDARDLYDAGVKRKGTDVPKWISIMTERSVCHLQKVFERYKSYSPYDMLESIKKEVKGDLENAFLNLVQCIQNKPLYFADRLYDSMKGKGTRDKVLIRIMVSRSEVDMLKIRSEFKKKYGKSLYYYIQQDTKGDYQKALLYLCGGDD |
| 6917 | sp|Q2TAZ0|ATG2A\_HUMAN | MSRWLWPWSNCVKERVCRYLLHHYLGHFFQEHLSLDQLSLDLYKGSVALRDIHLEIWSVNEVLESMESPLELVEGFVGSIEVAVPWAALLTDHCTVRVSGLQLTLQPRRGPAPGAADSQSWASCMTTSLQLAQECLRDGLPEPSEPPQPLEGLEMFAQTIETVLRRIKVTFLDTVVRVEHSPGDGERGVAVEVRVQRLEYCDEAVRDPSQAPPVDVHQPPAFLHKLLQLAGVRLHYEELPAQEEPPEPPLQIGSCSGYMELMVKLKQNEAFPGPKLEVAGQLGSLHLLLTPRQLQQLQELLSAVSLTDHEGLADKLNKSRPLGAEDLWLIEQDLNQQLQAGAVAEPLSPDPLTNPLLNLDNTDLFFSMAGLTSSVASALSELSLSDVDLASSVRSDMASRRLSAQAHPAGKMAPNPLLDTMRPDSLLKMTLGGVTLTLLQTSAPSSGPPDLATHFFTEFDATKDGPFGSRDFHHLRPRFQRACPCSHVRLTGTAVQLSWELRTGSRGRRTTSMEVHFGQLEVLECLWPRGTSEPEYTEILTFPGTLGSQASARPCAHLRHTQILRRVPKSRPRRSVACHCHSELALDLANFQADVELGALDRLAALLRLATVPAEPPAGLLTEPLPAMEQQTVFRLSAPRATLRLRFPIADLRPEPDPWAGQAVRAEQLRLELSEPQFRSELSSGPGPPVPTHLELTCSDLHGIYEDGGKPPVPCLRVSKALDPKSTGRKYFLPQVVVTVNPQSSSTQWEVAPEKGEELELSVESPCELREPEPSPFSSKRTMYETEEMVIPGDPEEMRTFQSRTLALSRCSLEVILPSVHIFLPSKEVYESIYNRINNDLLMWEPADLLPTPDPAAQPSGFPGPSGFWHDSFKMCKSAFKLANCFDLTPDSDSDDEDAHFFSVGASGGPQAAAPEAPSLHLQSTFSTLVTVLKGRITALCETKDEGGKRLEAVHGELVLDMEHGTLFSVSQYCGQPGLGYFCLEAEKATLYHRAAVDDYPLPSHLDLPSFAPPAQLAPTIYPSEEGVTERGASGRKGQGRGPHMLSTAVRIHLDPHKNVKEFLVTLRLHKATLRHYMALPEQSWHSQLLEFLDVLDDPVLGYLPPTVITILHTHLFSCSVDYRPLYLPVRVLITAETFTLSSNIIMDTSTFLLRFILDDSALYLSDKCEVETLDLRRDYVCVLDVDLLELVIKTWKGSTEGKLSQPLFELRCSNNVVHVHSCADSCALLVNLLQYVMSTGDLHPPPRPPSPTEIAGQKLSESPASLPSCPPVETALINQRDLADALLDTERSLRELAQPSGGHLPQASPISVYLFPGERSGAPPPSPPVGGPAGSLGSCSEEKEDEREEEGDGDTLDSDEFCILDAPGLGIPPRDGEPVVTQLHPGPIVVRDGYFSRPIGSTDLLRAPAHFPVPSTRVVLREVSLVWHLYGGRDFGPHPGHRARTGLSGPRSSPSRCSGPNRPQNSWRTQGGSGRQHHVLMEIQLSKVSFQHEVYPAEPATGPAAPSQELEERPLSRQVFIVQELEVRDRLASSQINKFLYLHTSERMPRRAHSNMLTIKALHVAPTTNLGGPECCLRVSLMPLRLNVDQDALFFLKDFFTSLVAGINPVVPGETSAEARPETRAQPSSPLEGQAEGVETTGSQEAPGGGHSPSPPDQQPIYFREFRFTSEVPIWLDYHGKHVTMDQVGTFAGLLIGLAQLNCSELKLKRLCCRHGLLGVDKVLGYALNEWLQDIRKNQLPGLLGGVGPMHSVVQLFQGFRDLLWLPIEQYRKDGRLMRGLQRGAASFGSSTASAALELSNRLVQAIQATAETVYDILSPAAPVSRSLQDKRSARRLRRGQQPADLREGVAKAYDTVREGILDTAQTICDVASRGHEQKGLTGAVGGVIRQLPPTVVKPLILATEATSSLLGGMRNQIVPDAHKDHALKWRSDSAQD |
| 6918 | sp|P0DP84|APOA2\_CHLSB | MKLLAATVLLLTVCSLEGALVRRQAEEPSVESLVSQYFQTVTDYGKDLMEKVKSPELQAQAKAYFEKSKEQLTPLVKKAGTDLVNFLSYFVELRTQPATQ |
| 6919 | sp|Q05431|APX1\_ARATH | MTKNYPTVSEDYKKAVEKCRRKLRGLIAEKNCAPIMVRLAWHSAGTFDCQSRTGGPFGTMRFDAEQAHGANSGIHIALRLLDPIREQFPTISFADFHQLAGVVAVEVTGGPDIPFHPGREDKPQPPPEGRLPDATKGCDHLRDVFAKQMGLSDKDIVALSGAHTLGRCHKDRSGFEGAWTSNPLIFDNSYFKELLSGEKEGLLQLVSDKALLDDPVFRPLVEKYAADEDAFFADYAEAHMKLSELGFADA |
| 6920 | sp|Q81RQ4|ASBF\_BACAN | MKYSLCTISFRHQLISFTDIVQFAYENGFEGIELWGTHAQNLYMQEYETTERELNCLKDKTLEITMISDYLDISLSADFEKTIEKCEQLAILANWFKTNKIRTFAGQKGSADFSQQERQEYVNRIRMICELFAQHNMYVLLETHPNTLTDTLPSTLELLGEVDHPNLKINLDFLHIWESGADPVDSFQQLRPWIQHYHFKNISSADYLHVFEPNNVYAAAGNRTGMVPLFEGIVNYDEIIQEVRDTDHFASLEWFGHNAKDILKAEMKVLTNRNLEVVTS |
| 6921 | sp|Q07528|ATG20\_YEAST | MSDLNDVQENAKLNSETRNTGKAEPPHGTTEYVAEAEISKNGVGSPKKSPKKGKVGKGDNNKVETELVHTALLEKDNPFMEEGPTGFTKSALLEIPGMRSHNLKNPNEDYEDDSEGLLPLNQESNAETCRTSLSGSINSMNGETSASEEPSVSNRKKSARIHILEAKRVSEGQGRAYIAYVIQFENSTVQRRYSDFESLRSILIRLFPMTLIPPIPEKQSIKNYGKSITGSSSKYLLPSEGSGSVDLSLSVIHASVNNSDEKLIRHRIRMLTEFLNKLLTNEEITKTSIITDFLDPNNHNWHEFVNSSSTFSSLPKSILQCNPLDPTNTTRIHAMLPIPGSSSQLLLNKESNDKKMDKERSKSFTNIEQDYKQYENLLDNGIYKYNRRTTKTYHDLKSDYNEIGEVFAQFAHEQAQVGELAEQLSYLSNAFSGSSISLEKLVGRLYYNINEPLNESVHMATSARELIKYRKLKYLQNEMIKKSLNSKRAQLEKLEAQNNEYKDVDKIIDNEMSKSHTINLERPNNNTGSGGKSYGGKLFNGFNKLASMVKDSVKYQETDPHTASINLKKEIEQLSESLEVTENDLEVISKVIKNDQLPKFSKEREVDLSEILKHYSRYMRNYARQNLEIWKEVKRHQDFA |
| 6922 | sp|Q9BSB4|ATGA1\_HUMAN | MNCRSEVLEVSVEGRQVEEAMLAVLHTVLLHRSTGKFHYKKEGTYSIGTVGTQDVDCDFIDFTYVRVSSEELDRALRKVVGEFKDALRNSGGDGLGQMSLEFYQKKKSRWPFSDECIPWEVWTVKVHVVALATEQERQICREKVGEKLCEKIINIVEVMNRHEYLPKMPTQSEVDNVFDTGLRDVQPYLYKISFQITDALGTSVTTTMRRLIKDTLAL |
| 6923 | sp|P84715|ANF39\_ORNAN | MHLSHLLAWALLLTLLSLRAEAKPPSPQPQVPRSPGDEASEAVAANGGGKKGDKEPKGDRPRLLRELRLDTRSRGSRGVWTRLLHDHPNPRKYKPANKKGLSKGCFGLKLDRIGSTSGLGC |
| 6924 | sp|P14415|AT1B2\_HUMAN | MVIQKEKKSCGQVVEEWKEFVWNPRTHQFMGRTGTSWAFILLFYLVFYGFLTAMFTLTMWVMLQTVSDHTPKYQDRLATPGLMIRPKTENLDVIVNVSDTESWDQHVQKLNKFLEPYNDSIQAQKNDVCRPGRYYEQPDNGVLNYPKRACQFNRTQLGNCSGIGDSTHYGYSTGQPCVFIKMNRVINFYAGANQSMNVTCAGKRDEDAENLGNFVMFPANGNIDLMYFPYYGKKFHVNYTQPLVAVKFLNVTPNVEVNVECRINAANIATDDERDKFAGRVAFKLRINKT |
| 6925 | sp|O70423|AOC3\_MOUSE | MTQKTTLVLLALAVITIFALVCVLLAGRSGDGGGLSQPLHCPSVLPSVQPRTHPSQSQPFADLSPEELTAVMSFLTKHLGPGLVDAAQARPSDNCVFSVELQLPAKAAALAHLDRGGPPPVREALAIIFFGGQPKPNVSELVVGPLPHPSYMRDVTVERHGGPLPYYRRPVLDREYQDIEEMIFHRELPQASGLLHHCCFYKHQGQNLLTMTTAPRGLQSGDRATWFGLYYNLSGAGFYPHPIGLELLIDHKALDPALWTIQKVFYQGRYYESLTQLEDQFEAGLVNVVLVPNNGTGGSWSLKSSVPPGPAPPLQFHPQGPRFSVQGSQVSSSLWAFSFGLGAFSGPRIFDIRFQGERVAYEISVQEAIALYGGNSPASMSTCYVDGSFGIGKYSTPLIRGVDCPYLATYVDWHFLLESQAPKTLRDAFCVFEQNQGLPLRRHHSDFYSHYFGGVVGTVLVVRSVSTLLNYDYIWDMVFHPNGAIEVKFHATGYISSAFFFGAGEKFGNRVGAHTLGTVHTHSAHFKVDLDVAGLKNWAWAEDMAFVPTIVPWQPEYQMQRLQVTRKLLETEEEAAFPLGGATPRYLYLASNHSNKWGHRRGYRIQILSFAGKPLPQESPIEKAFTWGRYHLAVTQRKEEEPSSSSIFNQNDPWTPTVNFTDFISNETIAGEDLVAWVTAGFLHIPHAEDIPNTVTAGNSVGFFLRPYNFFDEDPSFHSADSIYFREGQDATACEVNPLACLSQTATCAPEIPAFSHGGFAYRDN |
| 6926 | sp|Q6NZB1|ANM6\_MOUSE | MSLSKKRKLESGDSGGAGAGGEGAEEENGGEQEAAPPRPRRTKSERDQLYYECYSDVSVHEEMIADQVRTEAYRLGILKNWAALRGKTVLDVGAGTGILSIFCAQAGARRVYAVEASAIWQQAREVVRLNGLEDRVHVLPGPVETVELPERVDAIVSEWMGYGLLHESMLSSVLHARTKWLKEGGLLLPASAELFVAPISDQMLEWRLGFWSQVKQHYGVDMSCMESFATRCLMGHSEIVVQDLSGEDVLARPQRFAQLELARAGLEQELEAGVGGRFRCSCYGSAPLHGFAVWFQVTFPGGDSEKPLVLSTSPFHPATHWKQALLYLNEPVPVEQDTDISGEITLLPSPDNPRRLRILLRYKVGDHEEKTKDFAMED |
| 6927 | sp|Q8VDN2|AT1A1\_MOUSE | MGKGVGRDKYEPAAVSEHGDKKGKKAKKERDMDELKKEVSMDDHKLSLDELHRKYGTDLSRGLTPARAAEILARDGPNALTPPPTTPEWVKFCRQLFGGFSMLLWIGAILCFLAYGIRSATEEEPPNDDLYLGVVLSAVVIITGCFSYYQEAKSSKIMESFKNMVPQQALVIRNGEKMSINAEDVVVGDLVEVKGGDRIPADLRIISANGCKVDNSSLTGESEPQTRSPDFTNENPLETRNIAFFSTNCVEGTARGIVVYTGDRTVMGRIATLASGLEGGQTPIAEEIEHFIHLITGVAVFLGVSFFILSLILEYTWLEAVIFLIGIIVANVPEGLLATVTVCLTLTAKRMARKNCLVKNLEAVETLGSTSTICSDKTGTLTQNRMTVAHMWFDNQIHEADTTENQSGVSFDKTSATWFALSRIAGLCNRAVFQANQENLPILKRAVAGDASESALLKCIEVCCGSVMEMREKYSKIVEIPFNSTNKYQLSIHKNPNASEPKHLLVMKGAPERILDRCSSILLHGKEQPLDEELKDAFQNAYLELGGLGERVLGFCHLLLPDEQFPEGFQFDTDDVNFPVDNLCFVGLISMIDPPRAAVPDAVGKCRSAGIKVIMVTGDHPITAKAIAKGVGIISEGNETVEDIAARLNIPVNQVNPRDAKACVVHGSDLKDMTSEELDDILRYHTEIVFARTSPQQKLIIVEGCQRQGAIVAVTGDGVNDSPALKKADIGVAMGIVGSDVSKQAADMILLDDNFASIVTGVEEGRLIFDNLKKSIAYTLTSNIPEITPFLIFIIANIPLPLGTVTILCIDLGTDMVPAISLAYEQAESDIMKRQPRNPKTDKLVNERLISMAYGQIGMIQALGGFFTYFVILAENGFLPFHLLGIRETWDDRWVNDVEDSYGQQWTYEQRKIVEFTCHTAFFVSIVVVQWADLVICKTRRNSVFQQGMKNKILIFGLFEETALAAFLSYCPGMGAALRMYPLKPTWWFCAFPYSLLIFVYDEVRKLIIRRRPGGWVEKETYY |
| 6928 | sp|P07584|ASTA\_ASTAS | MQCAVLLVLLGVVAASPIIPEAARALYYNDGMFEGDIKLRAGRQPARVGAAILGDEYLWSGGVIPYTFAGVSGADQSAILSGMQELEEKTCIRFVPRTTESDYVEIFTSGSGCWSYVGRISGAQQVSLQANGCVYHGTIIHELMHAIGFYHEHTRMDRDNYVTINYQNVDPSMTSNFDIDTYSRYVGEDYQYYSIMHYGKYSFSIQWGVLETIVPLQNGIDLTDPYDKAHMLQTDANQINNLYTNECSLRH |
| 6929 | sp|P70158|ASM3A\_MOUSE | MALLGNFLCCLLVAWLCGPGLGVPLAPADRAPAVGQFWHVTDLHLDPTYHITDDRTKVCASSKGANASNPGPFGDVLCDSPYQLILSAFDFIKNSGQEASFMIWTGDSPPHVPVPELSTGTVIKVITNMTMTVQNLFPNLQVFPALGNHDYWPQDQLPIVTSKVYSAVADLWKPWLGEEAISTLKKGGFYSQKVASNPGLRIISLNTNLYYGPNIMTLNKTDPANQFEWLENTLNSSLWNKEKVYIIAHVPVGYLPYATDTPAIRQYYNEKLLDIFRRYSSVIAGQFYGHTHRDSLMVLSDKNGNPLNSVFVAPAVTPVKGVLQKETNNPGVRLFQYKPGDYTLLDMVQYYLNLTEANLKGESNWTLEYVLTQAYSVADLQPKSLYALVQQFATKDSKQFLKYYHYYFVSYDSSATCDQHCKTLQVCAIMNLDSMSYDDCLKQHL |
| 6930 | sp|P20443|ARRS\_MOUSE | MAACGKTNKSHVIFKKVSRDKSVTIYLGKRDYVDHVSQVEPVDGVVLVDPELVKGKKVYVTLTCAFRYGQEDIDVMGLTFRRDLYFSRVQVYPPVGAMSVLTQLQESLLKKLGDNTYPFLLTFPDYLPCSVMLQPAPQDVGKSCGVDFEVKAFASDITDPEEDKIPKKSSVRLLIRKVQHAPPEMGPQPSAEASWQFFMSDKPLNLSVSLSKEIYFHGEPIPVTVTVTNNTDKVVKKIKVSVEQIANVVLYSSDYYVKPVASEETQEKVQPNSTLTKTLVLVPLLANNRERRGIALDGKIKHEDTNLASSTIIKEGIDRTVMGILVSYHIKVKLTVSGFLGELTSSEVATEVPFRLMHPQPEDPAKESVQDENLVFEEFARQNLKDTGENTEGKKDEDAGQDE |
| 6931 | sp|P40527|ATC7\_YEAST | MPNPPSFKSHKQNLFNSNNNQHANSVDSFDLHLDDSFDAALDSLQINNNPEPLSKHNTVGDRESFEMRTVDDLDNFSNHSSDSHRKSSNTDTHPLMYDNRLSQDDNFKFTNIASSPPSSSNNIFSKALSYLKVSNTKNWSKFGSPIELSDQHIEREIHPDTTPVYDRNRYVSNELSNAKYNAVTFVPTLLYEQFKFFYNLYFLVVALSQAVPALRIGYLSSYIVPLAFVLTVTMAKEAIDDIQRRRRDRESNNELYHVITRNRSIPSKDLKVGDLIKVHKGDRIPADLVLLQSSEPSGESFIKTDQLDGETDWKLRVACPLTQNLSENDLINRISITASAPEKSIHKFLGKVTYKDSTSNPLSVDNTLWANTVLASSGFCIACVVYTGRDTRQAMNTTTAKVKTGLLELEINSISKILCACVFALSILLVAFAGFHNDDWYIDILRYLILFSTIIPVSLRVNLDLAKSVYAHQIEHDKTIPETIVRTSTIPEDLGRIEYLLSDKTGTLTQNDMQLKKIHLGTVSYTSETLDIVSDYVQSLVSSKNDSLNNSKVALSTTRKDMSFRVRDMILTLAICHNVTPTFEDDELTYQAASPDEIAIVKFTESVGLSLFKRDRHSISLLHEHSGKTLNYEILQVFPFNSDSKRMGIIVRDEQLDEYWFMQKGADTVMSKIVESNDWLEEETGNMAREGLRTLVIGRKKLNKKIYEQFQKEYNDASLSMLNRDQQMSQVITKYLEHDLELLGLTGVEDKLQKDVKSSIELLRNAGIKIWMLTGDKVETARCVSISAKLISRGQYVHTITKVTRPEGAFNQLEYLKINRNACLLIDGESLGMFLKHYEQEFFDVVVHLPTVIACRCTPQQKADVALVIRKMTGKRVCCIGDGGNDVSMIQCADVGVGIVGKEGKQASLAADFSITQFCHLTELLLWHGRNSYKRSAKLAQFVMHRGLIIAICQAVYSICSLFEPIALYQGWLMVGYATCYTMAPVFSLTLDHDIEESLTKIYPELYKELTEGKSLSYKTFFVWVLLSLFQGSVIQLFSQAFTSLLDTDFTRMVAISFTALVVNELIMVALEIYTWNKTMLVTEIATLLFYIVSVPFLGDYFDLGYMTTVNYYAGLLVILLISIFPVWTAKAIYRRLHPPSYAKVQEFATP |
| 6932 | sp|A8QCB2|ARO1\_MALGO | MSQVSGGKVPSYHAPPFDSPLSGATIHELRCLDTKVQLGFHLVPHIAKTLITELPSSAYVLVTDTNLAKLGAIDKFRKAFEAIPGARLLVYELAPGEESKSRETKAAIEDWMLEHRLTRDTVVLACGGGVIGDLVGFVAATFMRGLKYVQIPTTLLAMVDSSVGGKTAIDHPHGKNLIGAFHQPRYVFIDAAWLLTLPEREFSNGMAEVIKTAAIWDAADFEKLESESASIRAAVMGDEARQQSAAQGHTLATRTSSQSLLLDVIRGSVGVKAHIVTIDEKETGLRNLVNFGHSVGHAIEAVLTPDILHGECVAVGMVLEAEIARLVHGLPQVAIGRLVRCLRLYNLPVTLADARIMALSKVRELTTARVLDIMRVDKKNAGAQKKIVLLSRIGATVEERASTVSDAMIERVLAPAMLVRESVSAPRPPLTIHTPGSKSVSNRALVLAALSGGTCRLRHLLHSDDTQVMMQALAQLRAADFAWEDNGATLVVHGQGGRVLASDEPVYLQNAGTAARFVTAVACLASSASCSGSDESSCHGVVHLTGNARMKQRPIGPLVDALRSNGARIDYVEQSNCLPLNVTASGALQGGRIELAADVSSQYVSAVLLCAPYAQNDVELALVGGKVISQPYIDMTIAMMQSFGVRVERVAEHVYRIPRTTYVAPSTYEVECDASSATYPLAIAAITGTTVTVPSLGRASLQGDAAFARKVLAPMGCQVEQNDVSTTVTGPPVGMLKALGAIDMESMTDAFITAAMLFAVATAPCDEYASSSTSASPSSTRITGIANQRVKECDRLRAVVTELAKLGVRAVEHDDGIEVFSTPISQLLPHASIYCYDDHRIAMAFSVLACVVPGAGTEIQEKRCVEKTWPSWWDVLGGPLNVPIAGARLNDALVSLVARSRQRGPPTPTTLYGRDASIVLIGMRASGKSHVGRSLAKLLHRTFVDADVVFSDMYDIGAFVQDHGWDAFRAEESRILESLLTQCSVGHVIALGGGVIESAASRALLARFREHVGPVVHIVRDFALIESFLATSDRPAYGEPLADVYARRLPLYAESSCMEAVNTGNDAALALSRQLRTPLGTPVPISPAFFLSLTFPRVQDAWSILDHASAGVDVLELRVDLLHADGQPSIDDVREQVALLRQYTSLPILYTVRSVSQGGRLPDEANEAYFALTRLGLRMGCEYVDIELTRPSDGIEELAQAKGQTRIVASFHDTSGTMHWMAPAMRRLYTRACVLGDIAKLVGFARTWQDSLDLESFRTRVAQEAPFPLIAINMQAAGQLSRIVNPLLTPVTHPALPVPAAPGQMSVRDIHHARHLLGLLPKRHFFLFGSPITHSQSPLIHNTAFELLGLPHVYARHETDSVDASVEALVRAGDFGGASVTIPHKLSIMQLLDSVSPHAQVIGAVNTIVPHRDETTGHMALHGENTDWRAIVDLVAKHDGGRTRACTALVIGAGGSARAALYAMHKLGASRILLYNRTFEKAVNLAEQVPVEWRVEPVDSLALAAKAKPNVIVSNVPAQGTSFTPGGADIVLPLDLLSSDGGVAIDMAYRPEITPLLTLAQQHQSWHGVRGIEILLAQAFHQFRLWTGLPPPCLDIETTVYAAYRAAAASM |
| 6933 | sp|P53090|ARO8\_YEAST | MTLPESKDFSYLFSDETNARKPSPLKTCIHLFQDPNIIFLGGGLPLKDYFPWDNLSVDSPKPPFPQGIGAPIDEQNCIKYTVNKDYADKSANPSNDIPLSRALQYGFSAGQPELLNFIRDHTKIIHDLKYKDWDVLATAGNTNAWESTLRVFCNRGDVILVEAHSFSSSLASAEAQGVITFPVPIDADGIIPEKLAKVMENWTPGAPKPKLLYTIPTGQNPTGTSIADHRKEAIYKIAQKYDFLIVEDEPYYFLQMNPYIKDLKEREKAQSSPKQDHDEFLKSLANTFLSLDTEGRVIRMDSFSKVLAPGTRLGWITGSSKILKPYLSLHEMTIQAPAGFTQVLVNATLSRWGQKGYLDWLLGLRHEYTLKRDCAIDALYKYLPQSDAFVINPPIAGMFFTVNIDASVHPEFKTKYNSDPYQLEQSLYHKVVERGVLVVPGSWFKSEGETEPPQPAESKEVSNPNIIFFRGTYAAVSPEKLTEGLKRLGDTLYEEFGISK |
| 6934 | sp|P20020|AT2B1\_HUMAN | MGDMANNSVAYSGVKNSLKEANHDGDFGITLAELRALMELRSTDALRKIQESYGDVYGICTKLKTSPNEGLSGNPADLERREAVFGKNFIPPKKPKTFLQLVWEALQDVTLIILEIAAIVSLGLSFYQPPEGDNALCGEVSVGEEEGEGETGWIEGAAILLSVVCVVLVTAFNDWSKEKQFRGLQSRIEQEQKFTVIRGGQVIQIPVADITVGDIAQVKYGDLLPADGILIQGNDLKIDESSLTGESDHVKKSLDKDPLLLSGTHVMEGSGRMVVTAVGVNSQTGIIFTLLGAGGEEEEKKDEKKKEKKNKKQDGAIENRNKAKAQDGAAMEMQPLKSEEGGDGDEKDKKKANLPKKEKSVLQGKLTKLAVQIGKAGLLMSAITVIILVLYFVIDTFWVQKRPWLAECTPIYIQYFVKFFIIGVTVLVVAVPEGLPLAVTISLAYSVKKMMKDNNLVRHLDACETMGNATAICSDKTGTLTMNRMTVVQAYINEKHYKKVPEPEAIPPNILSYLVTGISVNCAYTSKILPPEKEGGLPRHVGNKTECALLGLLLDLKRDYQDVRNEIPEEALYKVYTFNSVRKSMSTVLKNSDGSYRIFSKGASEIILKKCFKILSANGEAKVFRPRDRDDIVKTVIEPMASEGLRTICLAFRDFPAGEPEPEWDNENDIVTGLTCIAVVGIEDPVRPEVPDAIKKCQRAGITVRMVTGDNINTARAIATKCGILHPGEDFLCLEGKDFNRRIRNEKGEIEQERIDKIWPKLRVLARSSPTDKHTLVKGIIDSTVSDQRQVVAVTGDGTNDGPALKKADVGFAMGIAGTDVAKEASDIILTDDNFTSIVKAVMWGRNVYDSISKFLQFQLTVNVVAVIVAFTGACITQDSPLKAVQMLWVNLIMDTLASLALATEPPTESLLLRKPYGRNKPLISRTMMKNILGHAFYQLVVVFTLLFAGEKFFDIDSGRNAPLHAPPSEHYTIVFNTFVLMQLFNEINARKIHGERNVFEGIFNNAIFCTIVLGTFVVQIIIVQFGGKPFSCSELSIEQWLWSIFLGMGTLLWGQLISTIPTSRLKFLKEAGHGTQKEEIPEEELAEDVEEIDHAERELRRGQILWFRGLNRIQTQIRVVNAFRSSLYEGLEKPESRSSIHNFMTHPEFRIEDSEPHIPLIDDTDAEDDAPTKRNSSPPPSPNKNNNAVDSGIHLTIEMNKSATSSSPGSPLHSLETSL |
| 6935 | sp|Q9WU06|AVIL\_RAT | MSLSSAFRTVTNDPGIITWRIEKMELVLVPLSAHGNFYEGDCYIILSTRRVGSLLSQNIHFWIGKDSSQDEQSCAAIYTTQLDDYLGGSPVQHREVQYHESDTFRGYFKRGIIYKKGGVASGMKHVETNTYDVKRLLHVKGKRNIRATEVEMSWDSFNQGDVFLLDLGMVIIQWNGPESNSGERLKAMLLAKDIRDRERGGRAEIGVIEGDKEAASPELMTVLQNTLGRRSIIKPAVPDEVTDQQQKSTIMLYHVSDTTGQLSVTEVATRPLVQELLNHDDCYILDQSGTKIYVWKGKGATKVEKQAAMSKALDFIKMKGYPSSTNVETVNDGAESAMFKQLFQKWSVKDQTTGLGKTFSIGKIAKIFQDKFDVTLLHTKPEVAAQERMVDDGNGKVEVWRIENLELVPVEYQWHGFFYGGDCYLVLYTYDVNGKPCYILYIWQGRHASQDELAASAYQAVEVDQQFGGAPVQVRVSMGKEPRHFMAIFKGKLVIYEGGTSRKGNVEPDPPVRLFQIHGNDKSNTKAVEVSASASSLNSNDVFLLWTQAEHYLWYGKGSSGDERAMAKELAELLCDGDADTVAEGQEPPEFWDLLGGKAPYANDKRLQQETLDIQVRLFECSNKTGRFLVTEVTDFTQDDLSPGDVMLLDTWDQVFLWIGAEANATEKEGALSTAQEYLVTHPSGRDPDTPILIIKQGFEPPTFTGWFLAWDPHIWSEGKSYEQLKNELGDATAIVRITTDMKNATLSLNSSESGPKYYPVEVLLKSQDQELPEDVDPTKKENYLSERDFVSVFGITRGQFVSLPGWKQLQLKKEAGLF |
| 6936 | sp|Q9FNE9|ATXR6\_ARATH | MVAVRRRRTQASNPRSEPPQHMSDHDSDSDWDTVCEECSSGKQPAKLLLCDKCDKGFHLFCLRPILVSVPKGSWFCPSCSKHQIPKSFPLIQTKIIDFFRIKRSPDSSQISSSSDSIGKKRKKTSLVMSKKKRRLLPYNPSNDPQRRLEQMASLATALRASNTKFSNELTYVSGKAPRSANQAAFEKGGMQVLSKEGVETLALCKKMMDLGECPPLMVVFDPYEGFTVEADRFIKDWTIITEYVGDVDYLSNREDDYDGDSMMTLLHASDPSQCLVICPDRRSNIARFISGINNHSPEGRKKQNLKCVRFNINGEARVLLVANRDISKGERLYYDYNGYEHEYPTEHFV |
| 6937 | sp|A0MLS5|BMAL1\_HORSE | MADQRMDISSTISDFMSPGATDLLSSPLGTSGMDCNRKRKGSSTDYQESMDTDKDDPHGRLEYTEHQGRIKNAREAHSQIEKRRRDKMNSFIDELASLVPTCNAMSRKLDKLTVLRMAVQHMKTLRGATNPYTEANYKPTFLSDDELKHLILRAADGFLFVVGCDRGKILFVSESVFKILNYSQNDLIGQSLFDYLHPKDIAKVKEQLSSSDTAPRERLIDAKTGLPVKTDITPGPSRLCSGARRSFFCRMKCNRPSVKVEDKDFPSTCSKKKADRKSFCTIHSTGYLKSWPPTKMGLDEDNEPDNEGCNLSCLVAIGRLHSHVVPQPVNGEIRVKSMEYVSRHAIDGKFVFVDQRATAILAYLPQELLGTSCYEYFHQDDIGHLAECHRQVLQTREKITTNCYKFKIKDGSFITLRSRWFSFMNPWTKEVEYIVSTNTVVLANVLEGGDPTFPQLTASPHSMDSMLPSGEGGPKRTHPTVPGIPGGTRAGAGKIGRMIAEEVMEIHRIRGSSPSSCGSSPLNITSTPPPDASSPGGKKILNGGTPDIPSSGLPPGQAQENPGYPYSDSSSILGENPHIGIDMIDNDQGSSSPSNDEAAMAVIMSLLEADAGLGGPVDFSDLPWPL |
| 6938 | sp|P12643|BMP2\_HUMAN | MVAGTRCLLALLLPQVLLGGAAGLVPELGRRKFAAASSGRPSSQPSDEVLSEFELRLLSMFGLKQRPTPSRDAVVPPYMLDLYRRHSGQPGSPAPDHRLERAASRANTVRSFHHEESLEELPETSGKTTRRFFFNLSSIPTEEFITSAELQVFREQMQDALGNNSSFHHRINIYEIIKPATANSKFPVTRLLDTRLVNQNASRWESFDVTPAVMRWTAQGHANHGFVVEVAHLEEKQGVSKRHVRISRSLHQDEHSWSQIRPLLVTFGHDGKGHPLHKREKRQAKHKQRKRLKSSCKRHPLYVDFSDVGWNDWIVAPPGYHAFYCHGECPFPLADHLNSTNHAIVQTLVNSVNSKIPKACCVPTELSAISMLYLDENEKVVLKNYQDMVVEGCGCR |
| 6939 | sp|Q9KZF5|C1581\_STRCO | MTQETTTLTGQSPPPVRDWPALDLDGPEFDPVLAELMREGPLTRVRLPHGEGWAWLATRYDDVKAITNDPRFGRAEVTQRQITRLAPHFKPRPGSLAFADQPDHNRLRRAVAGAFTVGATKRLRPRAQEILDGLVDGILAEGPPADLVERVLEPFPIAVVSEVMGVPAADRERVHSWTRQIISTSGGAEAAERAKRGLYGWITETVRARAGSEGGDVYSMLGAAVGRGEVGETEAVGLAGPLQIGGEAVTHNVGQMLYLLLTRRELMARMRERPGARGTALDELLRWISHRTSVGLARIALEDVEVHGTRIAAGEPVYVSYLAANRDPDVFPDPDRIDLDRDPNPHLAYGNGHHFCTGAVLARMQTELLVDTLLERLPGLRLAVPAEQVAWRRKTMIRGPRTLPCTW |
| 6940 | sp|P38111|ATR\_YEAST | MESHVKYLDELILAIKDLNSGVDSKVQIKKVPTDPSSSQEYAKSLKILNTLIRNLKDQRRNNIMKNDTIFSKTVSALALLLEYNPFLLVMKDSNGNFEIQRLIDDFLNISVLNYDNYHRIWFMRRKLGSWCKACVEFYGKPAKFQLTAHFENTMNLYEQALTEVLLGKTELLKFYDTLKGLYILLYWFTSEYSTFGNSIAFLDSSLGFTKFDFNFQRLIRIVLYVFDSCELAALEYAEIQLKYISLVVDYVCNRTISTALDAPALVCCEQLKFVLTTMHHFLDNKYGLLDNDPTMAKGILRLYSLCISNDFSKCFVDHFPIDQWADFSQSEHFPFTQLTNKALSIVYFDLKRRSLPVEALKYDNKFNIWVYQSEPDSSLKNVTSPFDDRYKQLEKLRLLVLKKFNKTERGTLLKYRVNQLSPGFFQRAGNDFKLILNEASVSIQTCFKTNNITRLTSWTVILGRLACLESEKFSGTLPNSTKDMDNWYVCHLCDIEKTGNPFVRINPNRPEAAGKSEIFRILHSNFLSHPNIDEFSESLLSGILFSLHRIFSHFQPPKLTDGNGQINKSFKLVQKCFMNSNRYLRLLSTRIIPLFNISDSHNSEDEHTATLIKFLQSQKLPVVKENLVIAWTQLTLTTSNDVFDTLLLKLIDIFNSDDYSLRIMMTLQIKNMAKILKKTPYQLLSPILPVLLRQLGKNLVERKVGFQNLIELLGYSSKTILDIFQRYIIPYAIIQYKSDVLSEIAKIMCDGDTSLINQMKVNLLKKNSRQIFAVALVKHGLFSLDILETLFLNRAPTFDKGYITAYLPDYKTLAEITKLYKNSVTKDASDSENANMILCSLRFLITNFEKDKRHGSKYKNINNWTDDQEQAFQKKLQDNILGIFQVFSSDIHDVEGRTTYYEKLRVINGISFLIIYAPKKSIISALAQISICLQTGLGLKEVRYEAFRCWHLLVRHLNDEELSTVIDSLIAFILQKWSEFNGKLRNIVYSILDTLIKEKSDLILKLKPYTTLALVGKPELGILARDGQFARMVNKIRSTTDLIPIFANNLKSSNKYVINQNLDDIEVYLRRKQTERSIDFTPKKVGQTSDITLVLGALLDTSHKFRNLDKDLCEKCAKCISMIGVLDVTKHEFKRTTYSENEVYDLNDSVQTIKFLIWVINDILVPAFWQSENPSKQLFVALVIQESLKYCGLSSESWDMNHKELYPNEAKLWEKFNSVSKTTIYPLLSSLYLAQSWKEYVPLKYPSNNFKEGYKIWVKRFTLDLLKTGTTENHPLHVFSSLIREDDGSLSNFLLPYISLDIIIKAEKGTPYADILNGIIIEFDSIFTCNLEGMNNLQVDSLRMCYESIFRVFEYCKKWATEFKQNYSKLHGTFIIKDTKTTNMLLRIDEFLRTTPSDLLAQRSLETDSFERSALYLEQCYRQNPHDKNQNGQLLKNLQITYEEIGDIDSLDGVLRTFATGNLVSKIEELQYSENWKLAQDCFNVLGKFSDDPKTTTRMLKSMYDHQLYSQIISNSSFHSSDGKISLSPDVKEWYSIGLEAANLEGNVQTLKNWVEQIESLRNIDDREVLLQYNIAKALIAISNEDPLRTQKYIHNSFRLIGTNFITSSKETTLLKKQNLLMKLHSLYDLSFLSSAKDKFEYKSNTTILDYRMERIGADFVPNHYILSMRKSFDQLKMNEQADADLGKTFFTLAQLARNNARLDIASESLMHCLERRLPQAELEFAEILWKQGENDRALKIVQEIHEKYQENSSVNARDRAAVLLKFTEWLDLSNNSASEQIIKQYQDIFQIDSKWDKPYYSIGLYYSRLLERKKAEGYITNGRFEYRAISYFLLAFEKNTAKVRENLPKVITFWLDIAAASISEAPGNRKEMLSKATEDICSHVEEALQHCPTYIWYFVLTQLLSRLLHSHQSSAQIIMHILLSLAVEYPSHILWYITALVNSNSSKRVLRGKHILEKYRQHSQNPHDLVSSALDLTKALTRVCLQDVKSITSRSGKSLEKDFKFDMNVAPSAMVVPVRKNLDIISPLESNSMRGYQPFRPVVSIIRFGSSYKVFSSLKKPKQLNIIGSDGNIYGIMCKKEDVRQDNQYMQFATTMDFLLSKDIASRKRSLGINIYSVLSLREDCGILEMVPNVVTLRSILSTKYESLKIKYSLKSLHDRWQHTAVDGKLEFYMEQVDKFPPILYQWFLENFPDPINWFNARNTYARSYAVMAMVGHILGLGDRHCENILLDIQTGKVLHVDFDCLFEKGKRLPVPEIVPFRLTPNLLDALGIIGTEGTFKKSSEVTLALMRKNEVALMNVIETIMYDRNMDHSIQKALKVLRNKIRGIDPQDGLVLSVAGQTETLIQEATSEDNLSKMYIGWLPFW |
| 6941 | sp|Q55650|BIOU\_SYNY3 | MENNSLAPLRVGILGFGGLGQAAARLLAPKQEMKLVAVADRHGYLYDADGIDVDNAVQAYTQQGSVGKAKKGQMSEQSIEDLIGEGEVDGYFLALPNLPNTFMADVTRQFIASGWQGVLVDALKRTSAVEQLITLREDLAQAGITYMTGCGATPGLLTAAAAIASQSFQEIHQVKITFGVGIANWEAYRATIREDIAHMPGYNVDKAQAMTDAEVAALLDQTNGILALEDMEHADDIMLELAGICHRDQVTVGGVVDTRNPKKPLSTHVKITGRTFEGKISSHTFTLGDETSMAANVCGPAFGYLKAGYGLHRQGLKGLFTAADVMPKFVR |
| 6942 | sp|Q810B3|BSH\_MOUSE | MNLNFTSPLHPASSQRPTSFFIEDILLHKPKPLREVAPDHFASSLASRVPLLDYGYPLMPTPTLLTPHAHHPLHKGDHHHPYFLTTSGMPVPALFPHPQHAELPGKHCRRRKARTVFSDSQLSGLEKRFEIQRYLSTPERVELATALSLSETQVKTWFQNRRMKHKKQLRKSQDEPKAADGPESPEGSPRAPEGAPADARLSLPAGAFVLTEPEDEVDIGDEGELSSGPHVL |
| 6943 | sp|O35914|BNC1\_MOUSE | MAEAIGCTLNCSCQCFKPGKINHRQCEQCRHGWVAHALSKLRIPPVYPTSQVEIVQSNVVFDISSLMLYGTQAIPVRLKILLDRLFSVLKQDEVLQILHALDWTLQDYIRGYVLQDASGKVLDHWSIMTSEEEVATLQQFLRFGETKSIVELMAIQEKEEQSVIVPPTTANVDIRAFIESCGHRSASLPTPVDKGSPGGMHPFENLISNMTFMLPFQFFNPLPPALIGSLPEQYMLEQGQDQSQEPKQELHGPFSDSSFLTSTPFQVEKEQCLNCPETVPQKEDSAHLSDSSSYSIASKLERTQLSPEAKVKPERNSLSAKKGRVFCTACEKTFYDKGTLKIHYNAVHLKIKHKCTIEGCNMVFSSLRSRNRHSANPNPRLHMPMNRNNRDKDLRNSLNLASSETYKRPGFTVVSPDCGPLPGYTGSVEDSKGQPAFSSIGQNGVLFPNLKTVQPVLPFYRSPATPAELANTPGMLPSLPLLSSSIPEQLVSTDMPFDALPKKKSRKSSMPIKIEKEAVEIAEEKRHSLSSDDEVPLQVVSEDEPEDSSPRSDRVPEEQHTQLSLEEPLPQGERACHLESVIESHGALSRTLEQTTLTEREAEQKVALSSVMPREVEDGGHERHFTAGLVPQIPFPDYMELQQRLLAGGLFGALSNRGMAFPFLEESKELEHLGEHALVRQKEEARFQCDICKKTFKNACSMKTHEKNTHARETHACTVEGCGAAFPSRRSRDRHSSNLSLHQKVLNEEALETSEDHFRAAYLLQDVAKEAYQDVAFTPQASQTSVIFKGTSGMGSLVYPISQVHSASLESYNSGPPSEGTILDLSTTSSMKSESSSHSSWDSDGVSEEGTALMEDSDGNCEGQSLVSGEDEYPLCVLMEKADQSLASLPSGLPITCHLCQKIYSNKGTFRAHYKTVHLRQLHKCKVPGCNTMFSSVRSRNRHSQNPNLHKSLASSPSHLQ |
| 6944 | sp|Q9DDT2|BCAP\_CHICK | MTASGTHGGYDVLILYASDAAEWCQYLQNLFLSTRHIRKHHIQSYQLEGESAISDQELDLFNRSRSIIILLSAELVQNFYCPPVLQSLQEALWPPHKVVKLFCGVTDCDDYLTFFKDWYQWQELTYDDEPDAYLEAVKKAISEDSGCDSVTDTETEDEKTSVYSCQLAMNEEHESSKSTGEHLVVQPDHIRCGVQTTVYIIMKCRLDDKVKTEVEFSPENSSSVRVLAELENEYTISVEAPNLTSGTVPLQIYSGDLMVGETSVTYHTDMEEISSLLANAANPVQFMCQAFKIVPYSIEALDKLLTESLKKNIPASGLHLFGINQLEEDDMTTNQRDEELPTLLHFSARYGLKNLTALLLTCPGALQAYSVANKYGHYPNTIAEKHGFKDLRQFIDEYVETADMLKSHIKEELMQGEEDESVYESMAHLSTDLLMKCSLNPGSDEELYESMAGFVPGAPEDLYVEMLQSKPDTPISGDEISLTVKDSMLRKFLEGGSTDAPDSGEGVSQQYGEDLYYSVEKDTFPQEMASRPPVPVPRPESSSPQPDNELYISKVFAQKAQRPENLYVPRGKVRKETIVRPVRDLSQSSIYDPFAGMKTPGQRQLITLQEQVKMGILNVDEAVLHFKEWQLNQKKRSESFRFQQENLKRLRDSITRRQMEKQKSGKSADLEITVPIRRSHNTLGKPECGIYEYAPRKNIFPPKKELKRGDWKTESTSSTTSSASNRSSTRSILSVSSGMEGDSEDNEVSEASRSRSPIPSQAERLPLPLPERPPRVPPRGASRPVNCEGFYPPPVPPRGR |
| 6945 | sp|Q9FMZ0|BKI1\_ARATH | METNLQQVKNSSQTFSEKQNPKQEASPSPISSTCSSPSHDFSFTISLQPLSSSSKHISPTLRSPSKTTSSYQQTDPFAVDLSPADEIFFHGHLLPLHLLSHLPVSPRTSTGSYNDGFTLPVKDILPDQPTNNNNNTENAITNISTEAKDDNTEDKAEGEIRVKTKPIKSFSLFGLSKWRKGFESNEREQEQQQQKIKKPMSLDLSHAVKKYIRMLFQKRGNGTQFWNRRQTSSYSFSSSLMGPNGNSKTMINGSYNKRDLIRGRRGELFSAPASMRTSPTNSGHLRVSTAGLSSSSGSTSSSSSDSTMEELQAAIQAAIAHCKNSSAVDRDDKVKDS |
| 6946 | sp|Q96RK4|BBS4\_HUMAN | MAEERVATRTQFPVSTESQKPRQKKAPEFPILEKQNWLIHLHYIRKDYEACKAVIKEQLQETQGLCEYAIYVQALIFRLEGNIQESLELFQTCAVLSPQSADNLKQVARSLFLLGKHKAAIEVYNEAAKLNQKDWEISHNLGVCYIYLKQFNKAQDQLHNALNLNRHDLTYIMLGKIHLLEGDLDKAIEVYKKAVEFSPENTELLTTLGLLYLQLGIYQKAFEHLGNALTYDPTNYKAILAAGSMMQTHGDFDVALTKYRVVACAVPESPPLWNNIGMCFFGKKKYVAAISCLKRANYLAPFDWKILYNLGLVHLTMQQYASAFHFLSAAINFQPKMGELYMLLAVALTNLEDIENAKRAYAEAVHLDKCNPLVNLNYAVLLYNQGEKKNALAQYQEMEKKVSLLKDNSSLEFDSEMVEMAQKLGAALQVGEALVWTKPVKDPKSKHQTTSTSKPASFQQPLGSNQALGQAMSSAAAYRTLPSGAGGTSQFTKPPSLPLEPEPAVESSPTETSEQIREK |
| 6947 | sp|Q9VYG2|BAP60\_DROME | MSQRFAPGQAPVQSRYQPPPPAPGMRPYPPPGASFPPRGFPLHPNTTQPVPGTANVAGVPGVPGVPGVPGPSLLQRAAQQPGFQSSLRGTGAGGGGVGSGGGSKRSNESRSLGGGGSKSDFATAKKKKKLAEKILPQKVRDLVPESQAYMDLLTFERKLDATIMRKRLDIQEALKRPMKQKRKLRIFISNTFYPSKEPTNDGEEGAVASWELRVEGRLLEDGKGDPNTKIKRKFSSFFKSLVIELDKELYGPDNHLVEWHRTHTTQETDGFQVKRPGDRNVRCTILLLLDYQPLQFKLDPRLARLLGVHTQTRPVIISALWQYIKTHKLQDAHEREYINCDKYLEQIFSCQRMKFAEIPQRLNPLLHPPDPIVINHFIESGAENKQTACYDIDVEVDDTLKNQMNSFLMSTASQQEIQGLDTKIHETVDTINQMKTNREFFLSFAKDPQMFIHRWIISETRDLKLMTDVAGNPEEERRAEFYYQPWTHEAVSRYFFTKVNQKRAELEQALGIRNG |
| 6948 | sp|Q57573|BSUHB\_METJA | MKWDEIGKNIAKEIEKEILPYFGRKDKSYVVGTSPSGDETEIFDKISEDIALKYLKSLNVNIVSEELGVIDNSSEWTVVIDPIDGSFNFINGIPFFAFCFGVFKNNEPYYGLTYEFLTKSFYEAYKGKGAYLNGRKIKVKDFNPNNIVISYYPSKKIDLEKLRNKVKRVRIFGAFGLEMCYVAKGTLDAVFDVRPKVRAVDIASSYIICKEAGALITDENGDELKFDLNATDRLNIIVANSKEMLDIILDLL |
| 6949 | sp|P39960|BEM2\_YEAST | MKGLLWSKNRKSSTASASSSSTSTSHKTTTASTASSSSPSSSSQTIRNSTSGASPYMHSHHHHGQGHSHHRGEDNNRDKRKSSVFPPSKQYTSTSSSQVNLGMYHSDTNTRSSRSIASTLKDDSPSVCSEDEISNSSSQKSNAQDETPIAYKKSAHSKDSLLPSRSSSLSPPQSRCSTGTTLEKSLNTSGISNSSGTNNNNSNNNNDNEQKQRNVIHLNSENYDTTVFKTGWVNKSHGQTVATNYNSSMTAPSSSSSSSSQNLRNDAYSRNRESRFYGNDGSSLKNDDSSSTTATNSGNDVASARSSMAIDPQMLVPDYRLYRAQLKGCVLNLYKSGLNSNIKFFDPTLPASNSSIANENHQQKKQQTNNQAQAEALHQKQSFGQMGEPITLDLKYLSEVYPHPDLRQDSDGKIISGTIESLCHTVLFYPGPKQSDVPNEKSLSKTHRAVINLLLMFPLLDHFIKFLKVFNQFGLSFTKNKSRLTNNSTQFYNISPAVDDSMTQRLALTAKTILDVFPGFLLDEPMLKTIISLLDTISLHNDEISNNLKIKIANKHNELMKLTAFTRSLPMATSSTHELEIILDPSHFLSLDITTLADEVHHINLKFDKVWAPKFDYSLLYDSKFINRRIVSLNPLVFNNDQNIHFLGRLLISHLFPTNPEFSKKVTPKVRAELLDKWVQIGCRFEHLGDMVSWLAVATIICSIPVLRSSSWKYVPDQSLKTIFKDWVPTIIQLERRQRTSKSTSSVFILAPPNLDDDFTRANVISYFGDLLIHADDLPSDTKFKYLEKKINRTKNAFHKWQQRLQAIDSTRHKTNSTENVRDNDSPNNVVYQLWKFHLSQPPLNIEGIMKLSVQHEPPIIDQKAYSTIGSQRSALVTGSYLPILFNELFPNYSLFPKNTLVGAASDAKLPPPRSSARLSKSLSISEPIPIASNSHTMGSLTDDAMSSKNDNNKVTGVGKIDGPVIKEMSSKQSNKQRLLKSVRDVFNIDMDVFHISDELVFKSVYDNDGKSRPASMVIETPKRFSQHSSMLINNPATPNQKMRDSLDTTGRLSKTLENMDFFNNIGQVSDSLKESIIRVVLKSSSLEKIFDLLVLTSNIFSKLVDTKDLENYYYHQRQRGHSTRGLSDDNIGLLDYAFVKLTMDNDIFTETFFNTYKSFTTTTTVLENMAKRYVGAKSCSVSISKILDRSDDSKMKINEDTNLVSSSLYDQNFPVWDMKVTDDENINLIYMAKIQIGAAEAILHLVKNHYSDFTDDLCNNSTLLDIIKIMEQEVSTEWPTRIANSKLQKSLPENFVIETENLLTTLTDLFHGIKSAYQKQLYRPIGVNRTQKRITDILNSFNTFSFTDLNNIIDDPSFSDDMIRSFQKLHSTNYEDILEWIYQLDNFISKKFNLVSKKDWIVLFQELELLSKESLVSFFNYPLHFKSSKLINPGYLQLHEFEISNLFTWISTLILKDDNGTESLFFEKLPQSIKLLIKLHTSLTTFFVMEISNVNKSSSERLTTCKVILQILNYIRWKNGSLDLFDSEEDESPHAICPHIPAFIETAIAHAIISPESRNYELSWIKASEKLSDPTKGTQNLRSISNVLEKIDDIHIKRFIEIDDVFSKNCKNLCPCPGWFISRLLEISQFVPNMSITNSKLINFDKRRFVNNIISNVLDLIPNEREFPLDIEMSDENPSKRTTFGRILFNNFEDVNKVYRKKTKKVSESEAISERFQEQGVFNEILVNEIEKIKREARKLEVLLDQEKILKNSAALHQAVPKKNRKSVIISGTHSDNDHSYNINKNTGQTPSLGSVMESNNSARNRRDSRASFSTNRSSVVSNSSHNGVSKKIGGFFRRPFSIGGFNTSSSNYSLNSILSQEVSSNKSILPSILPEVDSMQLHDLKPSYSLKTFEIKSIMEIINHRNIPAYYYAFKIVMQNGHEYLIQTASSSDLTEWIKMIKASKRFSFHSKKYKGKTHNKIFGVPLEDVCERENTLIPTIVVKLLEEIELRGLDEVGLYRIPGSIGSINALKNAFDEEGATDNSFTLEDDRWFEVNAIAGCFKMYLRELPDSLFSHAMVNDFTDLAIKYKAHAMVNEEYKRMMNELLQKLPTCYYQTLKRIVFHLNKVHQHVVNNKMDASNLAIVFSMSFINQEDLANSMGSRLGAVQTILQDFIKNPNDYFKQ |
| 6950 | sp|O22286|BPM3\_ARATH | MSTVGGIEQLIPDSVSTSFIETVNGSHQFTIQGYSLAKGMSPGKFIQSDIFSVGGYDWAIYFYPDGKNPEDQSSYISLFIALASDSNDIRALFELTLMDQSGKGKHKVHSHFDRALEGGPYTLKYKGSMWGYKRFFKRSALETSDYLKDDCLVINCTVGVVRARLEGPKQYGIVLPLSNMGQGLKDLLDSEVGCDIAFQVGDETYKAHKLILAARSPVFRAQFFGPIGNNNVDRIVIDDIEPSIFKAMLSFIYTDVLPNVHEITGSTSASSFTNMIQHLLAAADLYDLARLKILCEVLLCEKLDVDNVATTLALAEQHQFLQLKAFCLEFVASPANLGAVMKSEGFKHLKQSCPTLLSELLNTVAAADKSSTSGQSNKKRSASSVLGCDTTNVRQLRRRTRKEVRAVS |
| 6951 | sp|P51451|BLK\_HUMAN | MGLVSSKKPDKEKPIKEKDKGQWSPLKVSAQDKDAPPLPPLVVFNHLTPPPPDEHLDEDKHFVVALYDYTAMNDRDLQMLKGEKLQVLKGTGDWWLARSLVTGREGYVPSNFVARVESLEMERWFFRSQGRKEAERQLLAPINKAGSFLIRESETNKGAFSLSVKDVTTQGELIKHYKIRCLDEGGYYISPRITFPSLQALVQHYSKKGDGLCQRLTLPCVRPAPQNPWAQDEWEIPRQSLRLVRKLGSGQFGEVWMGYYKNNMKVAIKTLKEGTMSPEAFLGEANVMKALQHERLVRLYAVVTKEPIYIVTEYMARGCLLDFLKTDEGSRLSLPRLIDMSAQIAEGMAYIERMNSIHRDLRAANILVSEALCCKIADFGLARIIDSEYTAQEGAKFPIKWTAPEAIHFGVFTIKADVWSFGVLLMEVVTYGRVPYPGMSNPEVIRNLERGYRMPRPDTCPPELYRGVIAECWRSRPEERPTFEFLQSVLEDFYTATERQYELQP |
| 6952 | sp|Q9NQY0|BIN3\_HUMAN | MSWIPFKIGQPKKQIVPKTVERDFEREYGKLQQLEEQTRRLQKDMKKSTDADLAMSKSAVKISLDLLSNPLCEQDQDLLNMVTALDTAMKRMDAFNQEKVNQIQKTVIEPLKKFGSVFPSLNMAVKRREQALQDYRRLQAKVEKYEEKEKTGPVLAKLHQAREELRPVREDFEAKNRQLLEEMPRFYGSRLDYFQPSFESLIRAQVVYYSEMHKIFGDLSHQLDQPGHSDEQRERENEAKLSELRALSIVADD |
| 6953 | sp|O88700|BLM\_MOUSE | MAAVPLNNLQEQLQRHSARKLNNQPSLSKPKSLGFTFKKKTSEGDVSVTSVSVVKTPALSDKDVNVSEAFSFTESPLHKPKQQAKIEGFFKHFPGRQQSKGTCSEPSLPATVQTAQDTLCTTPKTPTAKKLPVAVFKKLEFSSSADSLSDWADMDDFDMSASDAFASLAKNPATRVSTAQKMKKTKRNFFKPPPRKANAVKTDLTPPSPECLQVDLTKESEEEEEEEEEAEGADCLSRDVICIDNDSASEELTEKDTQESQSLKAHLGAERGDSEKKSHEDEAVFHSVQNTEYFEHNDNDYDIDFVPPSPEEIISTASSSLKCSSMLKDLDDSDKEKGILSTSEELLSKPEEMTTHKSDAGTSKDCDAQQIRIQQQLIHVMEHICKLVDTVPTDELEALNCGTELLQQRNIRRKLLAEAGFNGNDVRLLGSLWRHRPDSLDNTVQGDSCPVGHPNKELNSPYLLSHSPSTEECLPTTTPGKTGFSATPKNLFERPLLNSHLQKSFVSSNWAETPRMENRNESTDFPGSVLTSTTVKAQSKQAASGWNVERHGQASYDIDNFNIDDFDDDDDDDDWENIMHNFPASKSSTATYPPIKEGGPVKSLSERISSAKAKFLPVVSTAQNTNLSESIQNCSDKLAQNLSSKNPKHEHFQSLNFPHTKEMMKIFHKKFGLHNFRTNQLEAINAALLGEDCFILMPTGGGKSLCYQLPACVSPGVTIVISPLRSLIVDQVQKLTSFDIPATYLTGDKTDSEAANIYLQLSKKDPIIKLLYVTPEKVCASNRLISTLENLYERKLLARFVIDEAHCVSQWGHDFRQDYKRMNMLRQKFPSVPVMALTATANPRVQKDILTQLKILRPQVFSMSFNRHNLKYYVLPKKPKKVAFDCLEWIRKHHPYDSGIIYCLSRRECDTMADTLQREGLAALAYHAGLSDSARDEVQHKWINQDNCQVICATIAFGMGIDKPDVRFVIHASLPKSMEGYYQESGRAGRDGEISHCVLFYTYHDVTRLKRLIMMEKDGNYHTKETHVNNLYSMVHYCENITECRRIQLLAYFGEKGFNPDFCKKYPDVSCDNCCKTKDYKTKDVTDDVKNIIRFVQEHSSSPGTRNIGPAGRFTLNMLVDIFLGSKSAKVKSGIFGKGTTYSRHNAERLFKKLILDKILDEDLYINANDQPIAYVMLGTKAHSVLSGHLKVDFMETENSSSIKKQKALVAKVSQREEVVKKCLGELTEVCKLLGKVFGVHYFNIFNTATLKKLAESLSSDPEVLLQIDGVTEDKLEKYGAEVIPVLQKYSEWTVPAEDGSPGARGAPEDTEEEEEEAPVSSHYFANQTRNERKRKKMSATHKPKRRRTSYGGFRAKGGSTTCRKTTSKSKFYGVTGSRSASCASQATSSASRKLGIMAPPKPVNRTFLRPSYAFS |
| 6954 | sp|P02730|B3AT\_HUMAN | MEELQDDYEDMMEENLEQEEYEDPDIPESQMEEPAAHDTEATATDYHTTSHPGTHKVYVELQELVMDEKNQELRWMEAARWVQLEENLGENGAWGRPHLSHLTFWSLLELRRVFTKGTVLLDLQETSLAGVANQLLDRFIFEDQIRPQDREELLRALLLKHSHAGELEALGGVKPAVLTRSGDPSQPLLPQHSSLETQLFCEQGDGGTEGHSPSGILEKIPPDSEATLVLVGRADFLEQPVLGFVRLQEAAELEAVELPVPIRFLFVLLGPEAPHIDYTQLGRAAATLMSERVFRIDAYMAQSRGELLHSLEGFLDCSLVLPPTDAPSEQALLSLVPVQRELLRRRYQSSPAKPDSSFYKGLDLNGGPDDPLQQTGQLFGGLVRDIRRRYPYYLSDITDAFSPQVLAAVIFIYFAALSPAITFGGLLGEKTRNQMGVSELLISTAVQGILFALLGAQPLLVVGFSGPLLVFEEAFFSFCETNGLEYIVGRVWIGFWLILLVVLVVAFEGSFLVRFISRYTQEIFSFLISLIFIYETFSKLIKIFQDHPLQKTYNYNVLMVPKPQGPLPNTALLSLVLMAGTFFFAMMLRKFKNSSYFPGKLRRVIGDFGVPISILIMVLVDFFIQDTYTQKLSVPDGFKVSNSSARGWVIHPLGLRSEFPIWMMFASALPALLVFILIFLESQITTLIVSKPERKMVKGSGFHLDLLLVVGMGGVAALFGMPWLSATTVRSVTHANALTVMGKASTPGAAAQIQEVKEQRISGLLVAVLVGLSILMEPILSRIPLAVLFGIFLYMGVTSLSGIQLFDRILLLFKPPKYHPDVPYVKRVKTWRMHLFTGIQIICLAVLWVVKSTPASLALPFVLILTVPLRRVLLPLIFRNVELQCLDADDAKATFDEEEGRDEYDEVAMPV |
| 6955 | sp|Q62896|BET1\_RAT | MRRAGLGDGAPPGGYGNYGYANSGYNACEEENDRLTESLRSKVTAIKSLSIEIGHEVKNQNKLLAEMDSQFDSTTGFLGKTMGRLKILSRGSQTKLLCYMMLFSLFVFFVIYWIIKLR |
| 6956 | sp|Q8L765|BPM1\_ARATH | MGTTRVCSEVSSGSSKSLSQSLTVSTSTTETVNGFHEFKICGYSLAKGVGVGKYVASDTFMVGGYSWAIYFYPDGKSPEDNSSYVSLFIALASEGADVRALFELTLVDQSGNGKHKVHSHFGRALDSGPYTLKYRGSMWGYKRFFRRSSLESSDYLKENSLLVRCRVGVVKSVTEGPRYYNIPVPVSNLGQQLGNLLESGKGCDVVFQVDGETFNAHKLVLATRSPVFNAQLFGPLGDRNTKCITIEDMEAPIFKVLLHFIYWDELPDMQELIGTDSTLASTLVAQHLLAAADRYALERLKAICESKLCEGVAINTVATTLALAEQHHCLQLKAVCLKFVALPENLKAVMQTDGFDYLKESCPSLLTELLQYVARLSEHSVIVSGHRKEIFADGCDASGRRVKPRLH |
| 6957 | sp|O35780|BHE40\_RAT | MERIPSAQPPPTCLPKTPGLEHGDLSGMDFAHMYQVYKSRRGIKRSEDSKETYKLPHRLIEKKRRDRINECIAQLKDLLPEHLKLTTLGHLEKAVVLELTLKHVKALTNLIDQQQQKIMALQSGLQAGDLSGKNIEAGQEMFCSGFQTCAREVLQYLAKHENTRDLKSSQLVTHLHRVVSELLQGSASRKPLDSAPKPVDFKEKPSFLAKGSEGPGKNCVPVIQRTFAPSGGEQSGSDTDTDSGYGGELEKGDLRSEQPYFKSDHGRRFTVGERVSTIKQESEEPPTKKSRMQLSDEEGHFVGSDLMGSPFLGPHPHQPPFCLPFYLIPPSATAYLPMLEKCWYPTSVPLLYPGLNTSAAALSSFMNPDKIPTPLLLPQRLPSPLAHSSLDSSALLQALKQIPPLNLETKD |
| 6958 | sp|Q9FXA3|BH095\_ARATH | MTNAQELGQEGFMWGISNSDDSGGGCKRIEKEPLPSHPSHPSPEIQTTTVKKGKKRTKRNDKNHEEESPDHEIHIWTERERRKKMRDMFSKLHALLPQLPPKADKSTIVDEAVSSIKSLEQTLQKLEMQKLEKLQYSSASTNTTPTTTFAYAPSSSSSPTALLTPISNHPIDATATDSYPRAAFLADQVSSSSAAAANLPYPCNDPIVNFDTWSSRNVVLTICGNEAFFNLCVPKHKPGVFTSVCYLFEKYNMEVLFANVSSNVFWSTYVIQAQVNPSCENQLLGNGLGVVDVFKQVSQELVLYFSSL |
| 6959 | sp|P25440|BRD2\_HUMAN | MLQNVTPHNKLPGEGNAGLLGLGPEAAAPGKRIRKPSLLYEGFESPTMASVPALQLTPANPPPPEVSNPKKPGRVTNQLQYLHKVVMKALWKHQFAWPFRQPVDAVKLGLPDYHKIIKQPMDMGTIKRRLENNYYWAASECMQDFNTMFTNCYIYNKPTDDIVLMAQTLEKIFLQKVASMPQEEQELVVTIPKNSHKKGAKLAALQGSVTSAHQVPAVSSVSHTALYTPPPEIPTTVLNIPHPSVISSPLLKSLHSAGPPLLAVTAAPPAQPLAKKKGVKRKADTTTPTPTAILAPGSPASPPGSLEPKAARLPPMRRESGRPIKPPRKDLPDSQQQHQSSKKGKLSEQLKHCNGILKELLSKKHAAYAWPFYKPVDASALGLHDYHDIIKHPMDLSTVKRKMENRDYRDAQEFAADVRLMFSNCYKYNPPDHDVVAMARKLQDVFEFRYAKMPDEPLEPGPLPVSTAMPPGLAKSSSESSSEESSSESSSEEEEEEDEEDEEEEESESSDSEEERAHRLAELQEQLRAVHEQLAALSQGPISKPKRKREKKEKKKKRKAEKHRGRAGADEDDKGPRAPRPPQPKKSKKASGSGGGSAALGPSGFGPSGGSGTKLPKKATKTAPPALPTGYDSEEEEESRPMSYDEKRQLSLDINKLPGEKLGRVVHIIQAREPSLRDSNPEEIEIDFETLKPSTLRELERYVLSCLRKKPRKPYTIKKPVGKTKEELALEKKRELEKRLQDVSGQLNSTKKPPKKANEKTESSSAQQVAVSRLSASSSSSDSSSSSSSSSSSDTSDSDSG |
| 6960 | sp|Q9BYV9|BACH2\_HUMAN | MSVDEKPDSPMYVYESTVHCTNILLGLNDQRKKDILCDVTLIVERKEFRAHRAVLAACSEYFWQALVGQTKNDLVVSLPEEVTARGFGPLLQFAYTAKLLLSRENIREVIRCAEFLRMHNLEDSCFSFLQTQLLNSEDGLFVCRKDAACQRPHEDCENSAGEEEDEEEETMDSETAKMACPRDQMLPEPISFEAAAIPVAEKEEALLPEPDVPTDTKESSEKDALTQYPRYKKYQLACTKNVYNASSHSTSGFASTFREDNSSNSLKPGLARGQIKSEPPSEENEEESITLCLSGDEPDAKDRAGDVEMDRKQPSPAPTPTAPAGAACLERSRSVASPSCLRSLFSITKSVELSGLPSTSQQHFARSPACPFDKGITQGDLKTDYTPFTGNYGQPHVGQKEVSNFTMGSPLRGPGLEALCKQEGELDRRSVIFSSSACDQVSTSVHSYSGVSSLDKDLSEPVPKGLWVGAGQSLPSSQAYSHGGLMADHLPGRMRPNTSCPVPIKVCPRSPPLETRTRTSSSCSSYSYAEDGSGGSPCSLPLCEFSSSPCSQGARFLATEHQEPGLMGDGMYNQVRPQIKCEQSYGTNSSDESGSFSEADSESCPVQDRGQEVKLPFPVDQITDLPRNDFQMMIKMHKLTSEQLEFIHDVRRRSKNRIAAQRCRKRKLDCIQNLECEIRKLVCEKEKLLSERNQLKACMGELLDNFSCLSQEVCRDIQSPEQIQALHRYCPVLRPMDLPTASSINPAPLGAEQNIAASQCAVGENVPCCLEPGAAPPGPPWAPSNTSENCTSGRRLEGTDPGTFSERGPPLEPRSQTVTVDFCQEMTDKCTTDEQPRKDYT |
| 6961 | sp|Q9UBX8|B4GT6\_HUMAN | MSVLRRMMRVSNRSLLAFIFFFSLSSSCLYFIYVAPGIANTYLFMVQARGIMLRENVKTIGHMIRLYTNKNSTLNGTDYPEGNNSSDYLVQTTTYLPENFTYSPYLPCPEKLPYMRGFLNVNVSEVSFDEIHQLFSKDLDIEPGGHWRPKDCKPRWKVAVLIPFRNRHEHLPIFFLHLIPMLQKQRLEFAFYVIEQTGTQPFNRAMLFNVGFKEAMKDSVWDCVIFHDVDHLPENDRNYYGCGEMPRHFAAKLDKYMYILPYKEFFGGVSGLTVEQFRKINGFPNAFWGWGGEDDDLWNRVHYAGYNVTRPEGDLGKYKSIPHHHRGEVQFLGRYKLLRYSKERQYIDGLNNLIYRPKILVDRLYTNISVNLMPELAPIEDY |
| 6962 | sp|Q942F3|BRI1\_ORYSJ | MDSLWAAIAALFVAAAVVVRGAAAADDAQLLEEFRQAVPNQAALKGWSGGDGACRFPGAGCRNGRLTSLSLAGVPLNAEFRAVAATLLQLGSVEVLSLRGANVSGALSAAGGARCGSKLQALDLSGNAALRGSVADVAALASACGGLKTLNLSGDAVGAAKVGGGGGPGFAGLDSLDLSNNKITDDSDLRWMVDAGVGAVRWLDLALNRISGVPEFTNCSGLQYLDLSGNLIVGEVPGGALSDCRGLKVLNLSFNHLAGVFPPDIAGLTSLNALNLSNNNFSGELPGEAFAKLQQLTALSLSFNHFNGSIPDTVASLPELQQLDLSSNTFSGTIPSSLCQDPNSKLHLLYLQNNYLTGGIPDAVSNCTSLVSLDLSLNYINGSIPASLGDLGNLQDLILWQNELEGEIPASLSRIQGLEHLILDYNGLTGSIPPELAKCTKLNWISLASNRLSGPIPSWLGKLSYLAILKLSNNSFSGPIPPELGDCQSLVWLDLNSNQLNGSIPKELAKQSGKMNVGLIVGRPYVYLRNDELSSECRGKGSLLEFTSIRPDDLSRMPSKKLCNFTRMYVGSTEYTFNKNGSMIFLDLSYNQLDSAIPGELGDMFYLMIMNLGHNLLSGTIPSRLAEAKKLAVLDLSYNQLEGPIPNSFSALSLSEINLSNNQLNGTIPELGSLATFPKSQYENNTGLCGFPLPPCDHSSPRSSNDHQSHRRQASMASSIAMGLLFSLFCIIVIIIAIGSKRRRLKNEEASTSRDIYIDSRSHSATMNSDWRQNLSGTNLLSINLAAFEKPLQNLTLADLVEATNGFHIACQIGSGGFGDVYKAQLKDGKVVAIKKLIHVSGQGDREFTAEMETIGKIKHRNLVPLLGYCKAGEERLLVYDYMKFGSLEDVLHDRKKIGKKLNWEARRKIAVGAARGLAFLHHNCIPHIIHRDMKSSNVLIDEQLEARVSDFGMARLMSVVDTHLSVSTLAGTPGYVPPEYYQSFRCTTKGDVYSYGVVLLELLTGKPPTDSADFGEDNNLVGWVKQHTKLKITDVFDPELLKEDPSVELELLEHLKIACACLDDRPSRRPTMLKVMAMFKEIQAGSTVDSKTSSAAAGSIDEGGYGVLDMPLREAKEEKD |
| 6963 | sp|Q9NYF8|BCLF1\_HUMAN | MGRSNSRSHSSRSKSRSQSSSRSRSRSHSRKKRYSSRSRSRTYSRSRSRDRMYSRDYRRDYRNNRGMRRPYGYRGRGRGYYQGGGGRYHRGGYRPVWNRRHSRSPRRGRSRSRSPKRRSVSSQRSRSRSRRSYRSSRSPRSSSSRSSSPYSKSPVSKRRGSQEKQTKKAEGEPQEESPLKSKSQEEPKDTFEHDPSESIDEFNKSSATSGDIWPGLSAYDNSPRSPHSPSPIATPPSQSSSCSDAPMLSTVHSAKNTPSQHSHSIQHSPERSGSGSVGNGSSRYSPSQNSPIHHIPSRRSPAKTIAPQNAPRDESRGRSSFYPDGGDQETAKTGKFLKRFTDEESRVFLLDRGNTRDKEASKEKGSEKGRAEGEWEDQEALDYFSDKESGKQKFNDSEGDDTEETEDYRQFRKSVLADQGKSFATASHRNTEEEGLKYKSKVSLKGNRESDGFREEKNYKLKETGYVVERPSTTKDKHKEEDKNSERITVKKETQSPEQVKSEKLKDLFDYSPPLHKNLDAREKSTFREESPLRIKMIASDSHRPEVKLKMAPVPLDDSNRPASLTKDRLLASTLVHSVKKEQEFRSIFDHIKLPQASKSTSESFIQHIVSLVHHVKEQYFKSAAMTLNERFTSYQKATEEHSTRQKSPEIHRRIDISPSTLRKHTRLAGEERVFKEENQKGDKKLRCDSADLRHDIDRRRKERSKERGDSKGSRESSGSRKQEKTPKDYKEYKSYKDDSKHKREQDHSRSSSSSASPSSPSSREEKESKKEREEEFKTHHEMKEYSGFAGVSRPRGTFFRIRGRGRARGVFAGTNTGPNNSNTTFQKRPKEEEWDPEYTPKSKKYFLHDDRDDGVDYWAKRGRGRGTFQRGRGRFNFKKSGSSPKWTHDKYQGDGIVEDEEETMENNEEKKDRRKEEKE |
| 6964 | sp|P0CJ48|CB1A\_ARATH | MAASTMALSSPAFAGKAVNLSPAASEVLGSGRVTMRKTVAKPKGPSGSPWYGSDRVKYLGPFSGESPSYLTGEFPGDYGWDTAGLSADPETFARNRELEVIHSRWAMLGALGCVFPELLARNGVKFGEAVWFKAGSQIFSDGGLDYLGNPSLVHAQSILAIWATQVILMGAVEGYRVAGNGPLGEAEDLLYPGGSFDPLGLATDPEAFAELKVKELKNGRLAMFSMFGFFVQAIVTGKGPIENLADHLADPVNNNAWAFATNFVPGK |
| 6965 | sp|Q9JMK0|B4GT5\_MOUSE | MRARRGLLRLPRRSLLAALFFFSLSSSLLYFVYVAPGIVNTYLFMVQAQGILLRDNVRTIGAQVYEQVVRSAYAKRNSSLNDSDYPLDLNHSEAFPPTTTFLPEDFTYFANHPCPERLPSMKGPIDINMSEIAMDDIHELFSRDPAIKLGGHWKPADCVPRWKVAILIPFRNRHEHLPVLLRHLLPMLQRQRLQFAFYVIEQVGTQPFNRAMLFNVGFQEAMKDLDWDCLIFHDVDHIPESDRNYYGCGQMPRHFATKLDKYMYLLPYTEFFGGVSGLTVEQFRKINGFPNAFWGWGGEDDDLWNRVQNAGYSVSRPEGDTGKYKSIPHHHRGEVQFLGRYALLRKSKERQGLDGLNNLNYSANVTYDALYKNITVNLTPELAQVTEY |
| 6966 | sp|P07371|CB22\_PEA | MAASSSSSMALSSPTLAGKQLKLNPSSQELGAARFTMRKSATTKKVASSGSPWYGPDRVKYLGPFSGESPSYLTGEFPGDYGWDTAGLSADPETFSKNRELEVIHSRWAMLGALGCVFPELLSRNGVKFGEAVWFKAGSQIFSEGGLDYLGNPSLVHAQSILAIWATQVILMGAVEGYRIAGGPLGEVVDPLYPGGSFDPLGLADDPEAFAELKVKELKNGRLAMFSMFGFFVQAIVTGKGPLENLADHLADPVNNNAWSYATNFVPGK |
| 6967 | sp|Q94AH1|CAND2\_ARATH | MRVLSEIAESPFVISRLSPDSTATGGFIGGWVGKCHGFLHNTVLVLASILFVAYLAYEAKKSLSKLSNRRSYIMIAYYGFLWLVSLLNLAWCCLQAWECTPGKEVIWNLLTLFTTSGMLFLEVSLVAFLFQGNYASGAEALTRTFLISGLVIGLDLLLKAIYLFGFGVPLFIDNNEHIHKFKWGLWVIHKLLLAGIYGMIFFMYNSKWRERLPARPAFYKYITVMLALNGLSLFACALTANGAHFGLWLYGITSVCYHAFYLPLLYVTFLADFFQEEDLNLENVYYSEMKDAGFFDADWE |
| 6968 | sp|P0A937|BAME\_ECOLI | MRCKTLTAAAAVLLMLTAGCSTLERVVYRPDINQGNYLTANDVSKIRVGMTQQQVAYALGTPLMSDPFGTNTWFYVFRQQPGHEGVTQQTLTLTFNSSGVLTNIDNKPALSGN |
| 6969 | sp|Q8AYD0|CADH5\_CHICK | MKKLILLFSLFLAPAFSYKENQKINQNFSSNNTSHKRLKRDWIWNRMHIREEIDSPLPHHVGKLTSSVGNKNAMYIIEGESANTIFKVQGYDGDIYAFERLDREKKAEYELTAHIIDRRNNRSLEPPSKFIIKVSDINDNAPIFVQKIFNGSVPEMSRLGTSVTKVTAEDADDPTVAGHATVTYQIIKGNEYFTVDDSGVISTARADLDRESQSAYEIIVKAKDALGLTGESSTATVIIRLTDINDNFPVFKHPSFHFRVPENISVGGEVGRVKVEDIDEPQHRNTKYSFVRGDYRDTFEIIANPFTNEGIIRPKKPLDFEKVAEYRFDIEATDHNVNPAYYKPGGSRSISTITIEVTDVDEPPVFTKLSYEFKVRENDPEIKTLGSVWAHDPDAAKRKIRFARRRASPNGDYVRVSDSGIIQLPKPLDREFSSLYNITVAAQEILEDGRLSDRESHAQVHVIVTDENDNAPELVYPEEPRVCENAAPGKVIIRISATDKDEISPGGFFTYSLTTEDSNFSLTENPDNTANITVKDGQFNRELAKIHYLPVIISDNGNPELSSTNTLVISVCKCNEKGDFTFCEERAKQVGVSVQALVAIFICIFTIIAVIALLILLRKRHKKDLSGLRRNVAEIHEQLVTYDEEGGGEMDTTSYDVSVLNSVRKNGIKPEVVPSAYAQVQKPPGNTTSGAGEMEMMIEVKKDEADNDRDLLPYDTLHIYGYEGAESIAESLSSLESGSSDSDIDYDFLNDWGPRFKMLAELYGSEPNEDFVY |
| 6970 | sp|Q62401|CCL12\_MOUSE | MKISTLLCLLLIATTISPQVLAGPDAVSTPVTCCYNVVKQKIHVRKLKSYRRITSSQCPREAVIFRTILDKEICADPKEKWVKNSINHLDKTSQTFILEPSCLG |
| 6971 | sp|Q94051|CAV1\_CAEEL | MSTEQDIKTEEQIPLTYAAVAAPTVQTEGEAVVAPEEPKPKKNWFTFGKKKAAPTDETNIEEGGAPGDEPVKEKKEKKCWWSRCQKGEGEQKEENIAIGVDLVNRDANSMNNHVQLNFEDIFGEADSQHSWDCVWRLNHTVFTAVRLFIYRLVSLLALPFTIIFAIFFGLLASINVFIIVPLGKLLSIPGTLLAKLWNWLIHAIFDPIASAVGLIFSNFNIRKYGINQETTAPCV |
| 6972 | sp|Q9JLK7|CABP1\_MOUSE | MGNCVKSPLRNLSRKMRQEEKTSYMAVQTSEDGLADGGELHGPLMMLAQNCAVMHNLLGPACIFLRKGFAENRQPDRSLRPEEIEELREAFREFDKDKDGYINCRDLGNCMRTMGYMPTEMELIELSQQINMNLGGHVDFDDFVELMGPKLLAETADMIGVKELRDAFREFDTNGDGEISTSELREAMRKLLGHQVGHRDIEEIIRDVDLNGDGRVDFEEFVRMMSR |
| 6973 | sp|Q2IBD6|CAV2\_PONAB | MGLETEKADVQLFMDDDSYSHHSGLEYADPEKFADSGQDRDPHRLNSHLKLGFEDVIAEPVTTHSFDKVWICSHALFEISKYVMYKFLTVFLAIPLAFIAGILFATLSCLHIWILMPFVKTCLMVLPSVQTIWKSVTDVIIAPLCTSVGRSFSSVSLQLSQD |
| 6974 | sp|P30658|CBX2\_MOUSE | MEELSSVGEQVFAAECILSKRLRKGKLEYLVKWRGWSSKHNSWEPEENILDPRLLLAFQKKEHEKEVQNRKRGKRPRGRPRKHTVTSSCSRRSKLKEPDAPSKSKSSSSSSSSTSSSSSSDEEEDDSDLDSKRGPRGRETHPVPQKKAQILVAKPELKDPIRKKRGRKPLPPEQKAARRPVSLAKVLKTTRKDLGTSAAKLPPPLSAPVAGLAALKAHTKEACGGPSTMATPENLASLMKGMAGSPSRGGIWQSSIVHYMNRMSQSQVQAASRLALKAQATNKCGLGLDLKVRTQKGGELGGSPAGGKVPKAPGGGAAEQQRGNHSGSPGAQLAPTQELSLQVLDLQSVKNGVPGVGLLARHAPAKAIPATNPATGKGPGSGPTGANMTNAPTDNNKGEKLTCKATALPAPSVKRDTVKSVAASGGQEGHTAPGEGRKPPALSELSTGEENSSSDSDPDSTSLPSAAQNLSVAIQTSQDWKPTRSLIEHVFVTDVTANLITVTVKESPTSVGFFNLRHY |
| 6975 | sp|O00555|CAC1A\_HUMAN | MARFGDEMPARYGGGGSGAAAGVVVGSGGGRGAGGSRQGGQPGAQRMYKQSMAQRARTMALYNPIPVRQNCLTVNRSLFLFSEDNVVRKYAKKITEWPPFEYMILATIIANCIVLALEQHLPDDDKTPMSERLDDTEPYFIGIFCFEAGIKIIALGFAFHKGSYLRNGWNVMDFVVVLTGILATVGTEFDLRTLRAVRVLRPLKLVSGIPSLQVVLKSIMKAMIPLLQIGLLLFFAILIFAIIGLEFYMGKFHTTCFEEGTDDIQGESPAPCGTEEPARTCPNGTKCQPYWEGPNNGITQFDNILFAVLTVFQCITMEGWTDLLYNSNDASGNTWNWLYFIPLIIIGSFFMLNLVLGVLSGEFAKERERVENRRAFLKLRRQQQIERELNGYMEWISKAEEVILAEDETDGEQRHPFDALRRTTIKKSKTDLLNPEEAEDQLADIASVGSPFARASIKSAKLENSTFFHKKERRMRFYIRRMVKTQAFYWTVLSLVALNTLCVAIVHYNQPEWLSDFLYYAEFIFLGLFMSEMFIKMYGLGTRPYFHSSFNCFDCGVIIGSIFEVIWAVIKPGTSFGISVLRALRLLRIFKVTKYWASLRNLVVSLLNSMKSIISLLFLLFLFIVVFALLGMQLFGGQFNFDEGTPPTNFDTFPAAIMTVFQILTGEDWNEVMYDGIKSQGGVQGGMVFSIYFIVLTLFGNYTLLNVFLAIAVDNLANAQELTKDEQEEEEAANQKLALQKAKEVAEVSPLSAANMSIAVKEQQKNQKPAKSVWEQRTSEMRKQNLLASREALYNEMDPDERWKAAYTRHLRPDMKTHLDRPLVVDPQENRNNNTNKSRAAEPTVDQRLGQQRAEDFLRKQARYHDRARDPSGSAGLDARRPWAGSQEAELSREGPYGRESDHHAREGSLEQPGFWEGEAERGKAGDPHRRHVHRQGGSRESRSGSPRTGADGEHRRHRAHRRPGEEGPEDKAERRARHREGSRPARGGEGEGEGPDGGERRRRHRHGAPATYEGDARREDKERRHRRRKENQGSGVPVSGPNLSTTRPIQQDLGRQDPPLAEDIDNMKNNKLATAESAAPHGSLGHAGLPQSPAKMGNSTDPGPMLAIPAMATNPQNAASRRTPNNPGNPSNPGPPKTPENSLIVTNPSGTQTNSAKTARKPDHTTVDIPPACPPPLNHTVVQVNKNANPDPLPKKEEEKKEEEEDDRGEDGPKPMPPYSSMFILSTTNPLRRLCHYILNLRYFEMCILMVIAMSSIALAAEDPVQPNAPRNNVLRYFDYVFTGVFTFEMVIKMIDLGLVLHQGAYFRDLWNILDFIVVSGALVAFAFTGNSKGKDINTIKSLRVLRVLRPLKTIKRLPKLKAVFDCVVNSLKNVFNILIVYMLFMFIFAVVAVQLFKGKFFHCTDESKEFEKDCRGKYLLYEKNEVKARDREWKKYEFHYDNVLWALLTLFTVSTGEGWPQVLKHSVDATFENQGPSPGYRMEMSIFYVVYFVVFPFFFVNIFVALIIITFQEQGDKMMEEYSLEKNERACIDFAISAKPLTRHMPQNKQSFQYRMWQFVVSPPFEYTIMAMIALNTIVLMMKFYGASVAYENALRVFNIVFTSLFSLECVLKVMAFGILNYFRDAWNIFDFVTVLGSITDILVTEFGNNFINLSFLRLFRAARLIKLLRQGYTIRILLWTFVQSFKALPYVCLLIAMLFFIYAIIGMQVFGNIGIDVEDEDSDEDEFQITEHNNFRTFFQALMLLFRSATGEAWHNIMLSCLSGKPCDKNSGILTRECGNEFAYFYFVSFIFLCSFLMLNLFVAVIMDNFEYLTRDSSILGPHHLDEYVRVWAEYDPAAWGRMPYLDMYQMLRHMSPPLGLGKKCPARVAYKRLLRMDLPVADDNTVHFNSTLMALIRTALDIKIAKGGADKQQMDAELRKEMMAIWPNLSQKTLDLLVTPHKSTDLTVGKIYAAMMIMEYYRQSKAKKLQAMREEQDRTPLMFQRMEPPSPTQEGGPGQNALPSTQLDPGGALMAHESGLKESPSWVTQRAQEMFQKTGTWSPEQGPPTDMPNSQPNSQSVEMREMGRDGYSDSEHYLPMEGQGRAASMPRLPAENQRRRGRPRGNNLSTISDTSPMKRSASVLGPKARRLDDYSLERVPPEENQRHHQRRRDRSHRASERSLGRYTDVDTGLGTDLSMTTQSGDLPSKERDQERGRPKDRKHRQHHHHHHHHHHPPPPDKDRYAQERPDHGRARARDQRWSRSPSEGREHMAHRQGSSSVSGSPAPSTSGTSTPRRGRRQLPQTPSTPRPHVSYSPVIRKAGGSGPPQQQQQQQQQQQQQAVARPGRAATSGPRRYPGPTAEPLAGDRPPTGGHSSGRSPRMERRVPGPARSESPRACRHGGARWPASGPHVSEGPPGPRHHGYYRGSDYDEADGPGSGGGEEAMAGAYDAPPPVRHASSGATGRSPRTPRASGPACASPSRHGRRLPNGYYPAHGLARPRGPGSRKGLHEPYSESDDDWC |
| 6976 | sp|O75828|CBR3\_HUMAN | MSSCSRVALVTGANRGIGLAIARELCRQFSGDVVLTARDVARGQAAVQQLQAEGLSPRFHQLDIDDLQSIRALRDFLRKEYGGLNVLVNNAAVAFKSDDPMPFDIKAEMTLKTNFFATRNMCNELLPIMKPHGRVVNISSLQCLRAFENCSEDLQERFHSETLTEGDLVDLMKKFVEDTKNEVHEREGWPNSPYGVSKLGVTVLSRILARRLDEKRKADRILVNACCPGPVKTDMDGKDSIRTVEEGAETPVYLALLPPDATEPQGQLVHDKVVQNW |
| 6977 | sp|O00257|CBX4\_HUMAN | MELPAVGEHVFAVESIEKKRIRKGRVEYLVKWRGWSPKYNTWEPEENILDPRLLIAFQNRERQEQLMGYRKRGPKPKPLVVQVPTFARRSNVLTGLQDSSTDNRAKLDLGAQGKGQGHQYELNSKKHHQYQPHSKERAGKPPPPGKSGKYYYQLNSKKHHPYQPDPKMYDLQYQGGHKEAPSPTCPDLGAKSHPPDKWAQGAGAKGYLGAVKPLAGAAGAPGKGSEKGPPNGMMPAPKEAVTGNGIGGKMKIVKNKNKNGRIVIVMSKYMENGMQAVKIKSGEVAEGEARSPSHKKRAADERHPPADRTFKKAAGAEEKKVEAPPKRREEEVSGVSDPQPQDAGSRKLSPTKEAFGEQPLQLTTKPDLLAWDPARNTHPPSHHPHPHPHHHHHHHHHHHHAVGLNLSHVRKRCLSETHGEREPCKKRLTARSISTPTCLGGSPAAERPADLPPAAALPQPEVILLDSDLDEPIDLRCVKTRSEAGEPPSSLQVKPETPASAAVAVAAAAAPTTTAEKPPAEAQDEPAESLSEFKPFFGNIIITDVTANCLTVTFKEYVTV |
| 6978 | sp|Q8VHW9|CCG4\_RAT | MVRCDRGLQMLLTTAGAFAAFSLMAIAIGTDYWLYSSAHICNGTNLTMDDGPPPRRARGDLTHSGLWRVCCIEGIYKGHCFRINHFPEDNDYDHDSSEYLLRIVRASSVFPILSTILLLLGGLCIGAGRIYSRKNNIVLSAGILFVAAGLSNIIGIIVYISSNTGDPSDKRDEDKKNHYNYGWSFYFGALSFIVAETVGVLAVNIYIEKNKELRFKTKREFLKASSSSPYSRMPSYRYRRRRSRSSSRSTEASPSRDASPVGLKITGAIPMGELSMYTLSREPLKVTTAASYSPDQDAGFLQMHDFFQQDLKEGFHVSMLNRRTTPV |
| 6979 | sp|Q22036|CAN5\_CAEEL | MTRSEKTRHFGNQNYEKLRKICIKKKQPFVDTLFPPTNQSLFLEQRQSSDIVWKRPGELHPDPHLFVEGASPNDVTQGILGNCWFVSACSALTHNFKLLAQVIPDADDQEWSTKHAYAGIFRFRFWRFGKWVEVVIDDLLPTRDGKLLFARSKTPNEFWSALLEKAFAKLYGCYENLVGGHLSDALQDVSGGVAETLHVRKFLKDDPNDTELKLFNDLKTAFDKGALVVAAIAARTKEEIEESLDCGLVKGHAYAVSAVCTIDVTNPNERSFTSFIMGSKRKQNLIRLQNPWGEKEWNGAWSDDSPEWQNVSASQLSTMGVQPANSDSDDGDFWMPWESFVHYFTDISLCQLFNTSVFSFSRSYDEQIVFSEWTTNGKKSGAPDDRAGGCHNFKATFCNNPQYIFDIPSPNCSVMFALIQNDPSEGLKKREPFVTIGMHVMKVENNRQYRVHTAMHPIAISDYASGRSVYLHLQSLPRGRYLLIPTTFAPKEQTLFMLRVYSDEHIHFSPLTKHAPKLGLLKCKSAQSVTRLTIHGVDFNSASTGTHNVYAILKDSRKSFRTKTLSGVKSIQWDEQFLFHKSKNRQQYKIEVWEDRKMARDHLLAQSVIIALIDNENRDTTLQLTDPRGTVIGTVSVTVSAFDDPMYL |
| 6980 | sp|O14815|CAN9\_HUMAN | MPYLYRAPGPQAHPVPKDARITHSSGQSFEQMRQECLQRGTLFEDADFPASNSSLFYSERPQIPFVWKRPGEIVKNPEFILGGATRTDICQGELGDCWLLAAIASLTLNQKALARVIPQDQSFGPGYAGIFHFQFWQHSEWLDVVIDDRLPTFRDRLVFLHSADHNEFWSALLEKAYAKLNGSYEALKGGSAIEAMEDFTGGVAETFQTKEAPENFYEILEKALKRGSLLGCFIDTRSAAESEARTPFGLIKGHAYSVTGIDQVSFRGQRIELIRIRNPWGQVEWNGSWSDSSPEWRSVGPAEQKRLCHTALDDGEFWMAFKDFKAHFDKVEICNLTPDALEEDAIHKWEVTVHQGSWVRGSTAGGCRNFLDTFWTNPQIKLSLTEKDEGQEECSFLVALMQKDRRKLKRFGANVLTIGYAIYECPDKDEHLNKDFFRYHASRARSKTFINLREVSDRFKLPPGEYILIPSTFEPHQEADFCLRIFSEKKAITRDMDGNVDIDLPEPPKPTPPDQETEEEQRFRALFEQVAGEDMEVTAEELEYVLNAVLQKKKDIKFKKLSLISCKNIISLMDTSGNGKLEFDEFKVFWDKLKQWINLFLRFDADKSGTMSTYELRTALKAAGFQLSSHLLQLIVLRYADEELQLDFDDFLNCLVRLENASRVFQALSTKNKEFIHLNINEFIHLTMNI |
| 6981 | sp|Q3YPH4|CAPSD\_HBOC1 | MPPIKRQPRGWVLPGYRYLGPFNPLDNGEPVNNADRAAQLHDHAYSELIKSGKNPYLYFNKADEKFIDDLKDDWSIGGIIGSSFFKIKRAVAPALGNKERAQKRHFYFANSNKGAKKTKKSEPKPGTSKMSDTDIQDQQPDTVDAPQNTSGGGTGSIGGGKGSGVGISTGGWVGGSHFSDKYVVTKNTRQFITTIQNGHLYKTEAIETTNQSGKSQRCVTTPWTYFNFNQYSCHFSPQDWQRLTNEYKRFRPKAMQVKIYNLQIKQILSNGADTTYNNDLTAGVHIFCDGEHAYPNASHPWDEDVMPDLPYKTWKLFQYGYIPIENELADLDGNAAGGNATEKALLYQMPFFLLENSDHQVLRTGESTEFTFNFDCEWVNNERAYIPPGLMFNPKVPTRRVQYIRQNGSTAASTGRIQPYSKPTSWMTGPGLLSAQRVGPQSSDTAPFMVCTNPEGTHINTGAAGFGSGFDPPNGCLAPTNLEYKLQWYQTPEGTGNNGNIIANPSLSMLRDQLLYKGNQTTYNLVGDIWMFPNQVWDRFPITRENPIWCKKPRADKHTIMDPFDGSIAMDHPPGTIFIKMAKIPVPTASNADSYLNIYCTGQVSCEIVWEVERYATKNWRPERRHTALGMSLGGESNYTPTYHVDPTGAYIQPTSYDQCMPVKTNINKVL |
| 6982 | sp|P07245|C1TC\_YEAST | MAGQVLDGKACAQQFRSNIANEIKSIQGHVPGFAPNLAIIQVGNRPDSATYVRMKRKAAEEAGIVANFIHLDESATEFEVLRYVDQLNEDPHTHGIIVQLPLPAHLDEDRITSRVLAEKDVDGFGPTNIGELNKKNGHPFFLPCTPKGIIELLHKANVTIEGSRSVVIGRSDIVGSPVAELLKSLNSTVTITHSKTRDIASYLHDADIVVVAIGQPEFVKGEWFKPRDGTSSDKKTVVIDVGTNYVADPSKKSGFKCVGDVEFNEAIKYVHLITPVPGGVGPMTVAMLMQNTLIAAKRQMEESSKPLQIPPLPLKLLTPVPSDIDISRAQQPKLINQLAQELGIYSHELELYGHYKAKISPKVIERLQTRQNGKYILVSGITPTPLGEGKSTTTMGLVQALTAHLGKPAIANVRQPSLGPTLGVKGGAAGGGYSQVIPMDEFNLHLTGDIHAIGAANNLLAAAIDTRMFHETTQKNDATFYNRLVPRKNGKRKFTPSMQRRLNRLGIQKTNPDDLTPEEINKFARLNIDPDTITIKRVVDINDRMLRQITIGQAPTEKNHTRVTGFDITVASELMAILALSKDLRDMKERIGRVVVAADVNRSPVTVEDVGCTGALTALLRDAIKPNLMQTLEGTPVLVHAGPFANISIGASSVIADRVALKLVGTEPEAKTEAGYVVTEAGFDFTMGGERFFNIKCRSSGLTPNAVVLVATVRALKSHGGAPDVKPGQPLPSAYTEENIEFVEKGAANMCKQIANIKQFGVPVVVAINKFETDTEGEIAAIRKAALEAGAFEAVTSNHWAEGGKGAIDLAKAVIEASNQPVDFHFLYDVNSSVEDKLTTIVQKMYGGAAIDILPEAQRKIDMYKEQGFGNLPICIAKTQYSLSHDATLKGVPTGFTFPIRDVRLSNGAGYLYALAAEIQTIPGLATYAGYMAVEVDDDGEIDGLF |
| 6983 | sp|Q9BXJ5|C1QT2\_HUMAN | MIPWVLLACALPCAADPLLGAFARRDFRKGSPQLVCSLPGPQGPPGPPGAPGPSGMMGRMGFPGKDGQDGHDGDRGDSGEEGPPGRTGNRGKPGPKGKAGAIGRAGPRGPKGVNGTPGKHGTPGKKGPKGKKGEPGLPGPCSCGSGHTKSAFSVAVTKSYPRERLPIKFDKILMNEGGHYNASSGKFVCGVPGIYYFTYDITLANKHLAIGLVHNGQYRIRTFDANTGNHDVASGSTILALKQGDEVWLQIFYSEQNGLFYDPYWTDSLFTGFLIYADQDDPNEV |
| 6984 | sp|P70160|CALC\_MOUSE | MGFLKFSPFLVVSILLLYQACSLQAVPLRSILESSPGMATLSEEEVRLLAALVQDYMQMKARELEQEEEQEAEGSSLDSPRSKRCGNLSTCMLGTYTQDLNKFHTFPQTSIGVEAPGKKRDVAKDLETNHQSHFGN |
| 6985 | sp|O95180|CAC1H\_HUMAN | MTEGARAADEVRVPLGAPPPGPAALVGASPESPGAPGREAERGSELGVSPSESPAAERGAELGADEEQRVPYPALAATVFFCLGQTTRPRSWCLRLVCNPWFEHVSMLVIMLNCVTLGMFRPCEDVECGSERCNILEAFDAFIFAFFAVEMVIKMVALGLFGQKCYLGDTWNRLDFFIVVAGMMEYSLDGHNVSLSAIRTVRVLRPLRAINRVPSMRILVTLLLDTLPMLGNVLLLCFFVFFIFGIVGVQLWAGLLRNRCFLDSAFVRNNNLTFLRPYYQTEEGEENPFICSSRRDNGMQKCSHIPGRRELRMPCTLGWEAYTQPQAEGVGAARNACINWNQYYNVCRSGDSNPHNGAINFDNIGYAWIAIFQVITLEGWVDIMYYVMDAHSFYNFIYFILLIIVGSFFMINLCLVVIATQFSETKQRESQLMREQRARHLSNDSTLASFSEPGSCYEELLKYVGHIFRKVKRRSLRLYARWQSRWRKKVDPSAVQGQGPGHRQRRAGRHTASVHHLVYHHHHHHHHHYHFSHGSPRRPGPEPGACDTRLVRAGAPPSPPSPGRGPPDAESVHSIYHADCHIEGPQERARVAHAAATAAASLRLATGLGTMNYPTILPSGVGSGKGSTSPGPKGKWAGGPPGTGGHGPLSLNSPDPYEKIPHVVGEHGLGQAPGHLSGLSVPCPLPSPPAGTLTCELKSCPYCTRALEDPEGELSGSESGDSDGRGVYEFTQDVRHGDRWDPTRPPRATDTPGPGPGSPQRRAQQRAAPGEPGWMGRLWVTFSGKLRRIVDSKYFSRGIMMAILVNTLSMGVEYHEQPEELTNALEISNIVFTSMFALEMLLKLLACGPLGYIRNPYNIFDGIIVVISVWEIVGQADGGLSVLRTFRLLRVLKLVRFLPALRRQLVVLVKTMDNVATFCTLLMLFIFIFSILGMHLFGCKFSLKTDTGDTVPDRKNFDSLLWAIVTVFQILTQEDWNVVLYNGMASTSSWAALYFVALMTFGNYVLFNLLVAILVEGFQAEGDANRSDTDEDKTSVHFEEDFHKLRELQTTELKMCSLAVTPNGHLEGRGSLSPPLIMCTAATPMPTPKSSPFLDAAPSLPDSRRGSSSSGDPPLGDQKPPASLRSSPCAPWGPSGAWSSRRSSWSSLGRAPSLKRRGQCGERESLLSGEGKGSTDDEAEDGRAAPGPRATPLRRAESLDPRPLRPAALPPTKCRDRDGQVVALPSDFFLRIDSHREDAAELDDDSEDSCCLRLHKVLEPYKPQWCRSREAWALYLFSPQNRFRVSCQKVITHKMFDHVVLVFIFLNCVTIALERPDIDPGSTERVFLSVSNYIFTAIFVAEMMVKVVALGLLSGEHAYLQSSWNLLDGLLVLVSLVDIVVAMASAGGAKILGVLRVLRLLRTLRPLRVISRAPGLKLVVETLISSLRPIGNIVLICCAFFIIFGILGVQLFKGKFYYCEGPDTRNISTKAQCRAAHYRWVRRKYNFDNLGQALMSLFVLSSKDGWVNIMYDGLDAVGVDQQPVQNHNPWMLLYFISFLLIVSFFVLNMFVGVVVENFHKCRQHQEAEEARRREEKRLRRLERRRRSTFPSPEAQRRPYYADYSPTRRSIHSLCTSHYLDLFITFIICVNVITMSMEHYNQPKSLDEALKYCNYVFTIVFVFEAALKLVAFGFRRFFKDRWNQLDLAIVLLSLMGITLEEIEMSAALPINPTIIRIMRVLRIARVLKLLKMATGMRALLDTVVQALPQVGNLGLLFMLLFFIYAALGVELFGRLECSEDNPCEGLSRHATFSNFGMAFLTLFRVSTGDNWNGIMKDTLRECSREDKHCLSYLPALSPVYFVTFVLVAQFVLVNVVVAVLMKHLEESNKEAREDAELDAEIELEMAQGPGSARRVDADRPPLPQESPGARDAPNLVARKVSVSRMLSLPNDSYMFRPVVPASAPHPRPLQEVEMETYGAGTPLGSVASVHSPPAESCASLQIPLAVSSPARSGEPLHALSPRGTARSPSLSRLLCRQEAVHTDSLEGKIDSPRDTLDPAEPGEKTPVRPVTQGGSLQSPPRSPRPASVRTRKHTFGQRCVSSRPAAPGGEEAEASDPADEEVSHITSSACPWQPTAEPHGPEASPVAGGERDLRRLYSVDAQGFLDKPGRADEQWRPSAELGSGEPGEAKAWGPEAEPALGARRKKKMSPPCISVEPPAEDEGSARPSAAEGGSTTLRRRTPSCEATPHRDSLEPTEGSGAGGDPAAKGERWGQASCRAEHLTVPSFAFEPLDLGVPSGDPFLDGSHSVTPESRASSSGAIVPLEPPESEPPMPVGDPPEKRRGLYLTVPQCPLEKPGSPSATPAPGGGADDPV |
| 6986 | sp|P29946|CBIA\_SALTY | MAARHHAFILAGTGSGCGKTTVTLGLLRLLQKRALRVQPFKVGPDYLDTGWHTAICGVASRNLDSFMLPPPVLNALFCEQMRQADIAVIEGVMGLYDGYGVDPNYCSTAAMAKQLGCPVILLVDGKAVSTSLAATVMGFQHFDPTLNLAGVIVNRVTSDAHYQLLKNAIEHYCSLPVLGYVPPCDGVALPERHLGLITARESLVNQQSWHDFAATLEQTVDVDALLSLSVLSALPAGMWPERPDNTAGAGLTLALADDEAFNFYYPDNIDLLERAGVNIVRFSPLHDRALPDCQMIWLGGGYPELYAADLAANTVMLKHLRAAHQRGVAIYAECGGLMYLGSTLEDSGGEIHQMANIIPGHSKMGKRLTRFGYCEAQAMQPTLLAAPGEIVRGHEFHYSDFIPETPAVMACRKVRDGRVLQEWTGGWQTGNTFASYLHVHFAQRPEMLQHWLAAARRVL |
| 6987 | sp|P42787|CBPD\_DROME | MPTLGLLFASIGIAVLAMGVPHCRGYTIKEDESFLQQPHYASQEQLEDLFAGLEKAYPNQAKVHFLGRSLEGRNLLALQISRNTRSRNLLTPPVKYIANMHGDETVGRQLLVYMAQYLLGNHERISDLGQLVNSTDIYLVPTMNPDGYALSQEGNCESLPNYVGRGNAANIDLNRDFPDRLEQSHVHQLRAQSRQPETAALVNWIVSKPFVLSANFHGGAVVASYPYDNSLAHNECCEESLTPDDRVFKQLAHTYSDNHPIMRKGNNCNDSFSGGITNGAHWYELSGGMQDFNYAFSNCFELTIELSCCKYPAASTLPQEWQRNKASLLQLLRQAHIGIKGLVTDASGFPIADANVYVAGLEEKPMRTSKRGEYWRLLTPGLYSVHASAFGYQTSAPQQVRVTNDNQEALRLDFKLAPVETNFDGNFRKVKVERSEPPQKLKKQFNGFLTPTKYEHHNFTAMESYLRAISSSYPSLTRLYSIGKSVQGRDLWVLEIFATPGSHVPGVPEFKYVANMHGNEVVGKELLLILTKYMLERYGNDDRITKLVNGTRMHFLYSMNPDGYEISIEGDRTGGVGRANAHGIDLNRNFPDQYGTDRFNKVTEPEVAAVMNWTLSLPFVLSANLHGGSLVANYPFDDNENDFNDPFMRLRNSSINGRKPNPTEDNALFKHLAGIYSNAHPTMYLGQPCELFQNEFFPDGITNGAQWYSVTGGMQDWNYVRAGCLELTIEMGCDKFPKAAELSRYWEDHREPLLQFIEQVHCGIHGFVHSTIGTPIAGAVVRLDGANHSTYSQVFGDYWKLALPGRHNLTVLGDNYAPLRMEVEVPDVHPFEMRMDITLMPDDPQHWASANDFRIIENVVNTRYHTNPQVRARLAELENQNGQIASFGYADSEFGTIFNYLKMTSDIGEPEEHKYKLLVVSSLYDTTAPLGREILLNLIRHLVEGFKLQDTSVVELLKRSVIYFLPQTSKFQNVFDMYNSNTSICDPVLGDELAERILGPETDQAKDVFLQFLRSERFDLMLTFGAGNSDLNYPKGDSVLVKFAHRMQRTEFNYSPLQCPPSATRQLHRETTERLTNMMYRIYNLPVYTLGISCCRMPHQKKIASVWRKNIDKIKNFLALVKTGVSGLVQNDKGQPLREAYVRLLEHDRIINVTKNVARFQLMLPHGLYGLEVTAPNYESQMIKVDVEDGRVTELGIIRMHPFTLIRGVVLELPNNDNRATTSIAGVVLDESNHPVRNAKVSVVGQTQLRNFTGSMGQYRISAVPLGTITLKVEAPRHLEATRQMHLIQGGLATENVVFHLKVNEHVFGLPRFLFILCASVLIIVGVIVCVLCAQFWFYRRHRGDKPYYNFSLLPQRGKEQFGLEDDDGGDDGETELFRSPIKRELSQRAHLVNNQTNYSFIIQAA |
| 6988 | sp|P10605|CATB\_MOUSE | MWWSLILLSCLLALTSAHDKPSFHPLSDDLINYINKQNTTWQAGRNFYNVDISYLKKLCGTVLGGPKLPGRVAFGEDIDLPETFDAREQWSNCPTIGQIRDQGSCGSCWAFGAVEAISDRTCIHTNGRVNVEVSAEDLLTCCGIQCGDGCNGGYPSGAWSFWTKKGLVSGGVYNSHVGCLPYTIPPCEHHVNGSRPPCTGEGDTPRCNKSCEAGYSPSYKEDKHFGYTSYSVSNSVKEIMAEIYKNGPVEGAFTVFSDFLTYKSGVYKHEAGDMMGGHAIRILGWGVENGVPYWLAANSWNLDWGDNGFFKILRGENHCGIESEIVAGIPRTDQYWGRF |
| 6989 | sp|Q8N4J0|CARME\_HUMAN | MQRRRRPPPPTSRLPEGCGGGGGGSEEVEVQFSAGRWGSAAAVSAAAAAATRSTEEEEERLEREHFWKIINAFRYYGTSMHERVNRTERQFRSLPANQQKLLPQFLLHLDKIRKCIDHNQEILLTIVNDCIHMFENKEYGEDGNGKIMPASTFDMDKLKSTLKQFVRDWSETGKAERDACYQPIIKEILKNFPKERWDPSKVNILVPGAGLGRLAWEIAMLGYACQGNEWSFFMLFSSNFVLNRCSEINKYKLYPWIHQFSNNRRSADQIRPIFFPDVDPHSLPPGSNFSMTAGDFQEIYSECNTWDCIATCFFIDTAHNVIDYIDTIWKILKPGGIWINLGPLLYHFENLANELSIELSYEDIKNVVLQYGFKVEVEKESVLSTYTVNDLSMMKYYYECVLFVVRKPQ |
| 6990 | sp|P35384|CASR\_BOVIN | MALYSCCWILLAFSTWCTSAYGPDQRAQKKGDIILGGLFPIHFGVAVKDQDLKSRPESVECIRYNFRGFRWLQAMIFAIEEINSSPALLPNMTLGYRIFDTCNTVSKALEATLSFVAQNKIDSLNLDEFCNCSEHIPSTIAVVGATGSGISTAVANLLGLFYIPQVSYASSSRLLSNKNQFKSFLRTIPNDEHQATAMADIIEYFRWNWVGTIAADDDYGRPGIEKFREEAEERDICIDFSELISQYSDEEKIQQVVEVIQNSTAKVIVVFSSGPDLEPLIKEIVRRNITGRIWLASEAWASSSLIAMPEYFHVVGGTIGFGLKAGQIPGFREFLQKVHPRKSVHNGFAKEFWEETFNCHLQEGAKGPLPVDTFLRGHEEGGARLSNSPTAFRPLCTGEENISSVETPYMDYTHLRISYNVYLAVYSIAHALQDIYTCIPGRGLFTNGSCADIKKVEAWQVLKHLRHLNFTSNMGEQVTFDECGDLAGNYSIINWHLSPEDGSIVFKEVGYYNVYAKKGERLFINDEKILWSGFSREVPFSNCSRDCLAGTRKGIIEGEPTCCFECVECPDGEYSDETDASACDKCPDDFWSNENHTSCIAKEIEFLSWTEPFGIALTLFAVLGIFLTAFVLGVFIKFRNTPIVKATNRELSYLLLFSLLCCFSSSLFFIGEPQDWTCRLRQPAFGISFVLCISCILVKTNRVLLVFEAKIPTSFHRKWWGLNLQFLLVFLCTFMQIVICAIWLNTAPPSSYRNHELEDEIIFITCHEGSLMALGFLIGYTCLLAAICFFFAFKSRKLPENFNEAKFITFSMLIFFIVWISFIPAYASTYGKFVSAVEVIAILAASFGLLACIFFNKVYIILFKPSRNTIEEVRCSTAAHAFKVAARATLRRSNVSRQRSSSLGGSTGSTPSSSISSKSNSEDPFPQQQPKRQKQPQPLALSPHNAQQPQPRPPSTPQPQPQSQQPPRCKQKVIFGSGTVTFSLSFDEPQKTAVAHRNSTHQTSLEAQKNNDALTKHQALLPLQCGETDSELTSQETGLQGPVGEDHQLEMEDPEEMSPALVVSNSRSFVISGGGSTVTENMLRS |
| 6991 | sp|Q810D1|CHP2\_RAT | MGSRSSHVALIPDVDQIRRETGFSQASLLRLYHRFQALDREEKGFLSRLDLQQIGALAVNPLGDRIIDSFFPNGSQRVYFAGFARVLAYFRPIDEDDATLRDPKQPEPLNSRMNKLRFAFQLYDLDRDGKISRNEMLQVLRLMVGVQVTDEQLESITDRTVQEADEDGDGAVSFLEFAKSLEKMNIEQKMSIRILK |
| 6992 | sp|O16305|CALM\_CAEEL | MADQLTEEQIAEFKEAFSLFDKDGDGTITTKELGTVMRSLGQNPTEAELQDMINEVDADGNGTIDFPEFLTMMARKMKDTDSEEEIREAFRVFDKDGNGFISAAELRHVMTNLGEKLTDEEVDEMIREADIDGDGQVNYEEFVTMMTTK |
| 6993 | sp|Q96EP1|CHFR\_HUMAN | MERPEEGKQSPPPQPWGRLLRLGAEEGEPHVLLRKREWTIGRRRGCDLSFPSNKLVSGDHCRIVVDEKSGQVTLEDTSTSGTVINKLKVVKKQTCPLQTGDVIYLVYRKNEPEHNVAYLYESLSEKQGMTQESFEANKENVFHGTKDTSGAGAGRGADPRVPPSSPATQVCFEEPQPSTSTSDLFPTASASSTEPSPAGRERSSSCGSGGGGISPKGSGPSVASDEVSSFASALPDRKTASFSSLEPQDQEDLEPVKKKMRGDGDLDLNGQLLVAQPRRNAQTVHEDVRAAAGKPDKMEETLTCIICQDLLHDCVSLQPCMHTFCAACYSGWMERSSLCPTCRCPVERICKNHILNNLVEAYLIQHPDKSRSEEDVQSMDARNKITQDMLQPKVRRSFSDEEGSSEDLLELSDVDSESSDISQPYVVCRQCPEYRRQAAQPPHCPAPEGEPGAPQALGDAPSTSVSLTTAVQDYVCPLQGSHALCTCCFQPMPDRRAEREQDPRVAPQQCAVCLQPFCHLYWGCTRTGCYGCLAPFCELNLGDKCLDGVLNNNSYESDILKNYLATRGLTWKNMLTESLVALQRGVFLLSDYRVTGDTVLCYCCGLRSFRELTYQYRQNIPASELPVAVTSRPDCYWGRNCRTQVKAHHAMKFNHICEQTRFKN |
| 6994 | sp|Q9N593|CDC27\_CAEEL | MKESAASVAVRPQLREVFERFPADAHRTIEDEIHEMMKCYAFDDAIFLAELHYETDKSNNSESLLLYADCLYRANKKEECYGLLSSVKLSGARLFYLLARVSYDLNKIDDCRGALFEHDDGVIRKDILEEPRVASHANLLHAQMLCDESYMDLALESCQKSLDENILLWSAIITYLRFGGHDLAHTFEKHHRKSNGLYLDSPASSLKSETPSPNVPGPSSSSAASTAEPSRLESSVRRSTRGTIASANRETRNTTSNITPRQSTPGSTPSRINPTAPRKSSRISEMTTRRTESSVTGSRSSLFTEPERPHTRATHSSRNRANAALNSDTENSNASNTRTRSGIASVTRGSSSSQRTNPVRTSIRIADAAAAANKTAKTLSQRRRNEKQPLVSRNSNLARSLSGSTNSVASTASERPSEDEVSQINPPLPSVASSLNNDEPMDIVDGVYDPEYKKLFDVYQHIALIEESISTYNWRSADALFAKLDRDIILNTSMVRLQLGRACFEQSEYRECRNILDDLHKRRKWKVDGTELLSTSMWHLQDTHALSALSQILTTESRERPQSWCAAGNCFSLQRQHTQAIECMERAIQLDKRFAYAYTLLGHELIVQDELDKAAGSFRSALLLSPRDYRAWYGLGLVHLKKEQNLTALTNIQKAVNINPTNRAMLCTLSQIEQQRGQIDTALVLIDRALTLNPLDVACRFNRSRLLFEANRNEECLVELDKLKASSPDEAFIFHLLARVHRRMGNTHLALLNYSWAAELDPRGEQNITDSNVINREEYEDDEYGSPV |
| 6995 | sp|G3ECR1|CAS9\_STRTR | MLFNKCIIISINLDFSNKEKCMTKPYSIGLDIGTNSVGWAVITDNYKVPSKKMKVLGNTSKKYIKKNLLGVLLFDSGITAEGRRLKRTARRRYTRRRNRILYLQEIFSTEMATLDDAFFQRLDDSFLVPDDKRDSKYPIFGNLVEEKVYHDEFPTIYHLRKYLADSTKKADLRLVYLALAHMIKYRGHFLIEGEFNSKNNDIQKNFQDFLDTYNAIFESDLSLENSKQLEEIVKDKISKLEKKDRILKLFPGEKNSGIFSEFLKLIVGNQADFRKCFNLDEKASLHFSKESYDEDLETLLGYIGDDYSDVFLKAKKLYDAILLSGFLTVTDNETEAPLSSAMIKRYNEHKEDLALLKEYIRNISLKTYNEVFKDDTKNGYAGYIDGKTNQEDFYVYLKNLLAEFEGADYFLEKIDREDFLRKQRTFDNGSIPYQIHLQEMRAILDKQAKFYPFLAKNKERIEKILTFRIPYYVGPLARGNSDFAWSIRKRNEKITPWNFEDVIDKESSAEAFINRMTSFDLYLPEEKVLPKHSLLYETFNVYNELTKVRFIAESMRDYQFLDSKQKKDIVRLYFKDKRKVTDKDIIEYLHAIYGYDGIELKGIEKQFNSSLSTYHDLLNIINDKEFLDDSSNEAIIEEIIHTLTIFEDREMIKQRLSKFENIFDKSVLKKLSRRHYTGWGKLSAKLINGIRDEKSGNTILDYLIDDGISNRNFMQLIHDDALSFKKKIQKAQIIGDEDKGNIKEVVKSLPGSPAIKKGILQSIKIVDELVKVMGGRKPESIVVEMARENQYTNQGKSNSQQRLKRLEKSLKELGSKILKENIPAKLSKIDNNALQNDRLYLYYLQNGKDMYTGDDLDIDRLSNYDIDHIIPQAFLKDNSIDNKVLVSSASNRGKSDDFPSLEVVKKRKTFWYQLLKSKLISQRKFDNLTKAERGGLLPEDKAGFIQRQLVETRQITKHVARLLDEKFNNKKDENNRAVRTVKIITLKSTLVSQFRKDFELYKVREINDFHHAHDAYLNAVIASALLKKYPKLEPEFVYGDYPKYNSFRERKSATEKVYFYSNIMNIFKKSISLADGRVIERPLIEVNEETGESVWNKESDLATVRRVLSYPQVNVVKKVEEQNHGLDRGKPKGLFNANLSSKPKPNSNENLVGAKEYLDPKKYGGYAGISNSFAVLVKGTIEKGAKKKITNVLEFQGISILDRINYRKDKLNFLLEKGYKDIELIIELPKYSLFELSDGSRRMLASILSTNNKRGEIHKGNQIFLSQKFVKLLYHAKRISNTINENHRKYVENHKKEFEELFYYILEFNENYVGAKKNGKLLNSAFQSWQNHSIDELCSSFIGPTGSERKGLFELTSRGSAADFEFLGVKIPRYRDYTPSSLLKDATLIHQSVTGLYETRIDLAKLGEG |
| 6996 | sp|P00787|CATB\_RAT | MWWSLIPLSCLLALTSAHDKPSSHPLSDDMINYINKQNTTWQAGRNFYNVDISYLKKLCGTVLGGPNLPERVGFSEDINLPESFDAREQWSNCPTIAQIRDQGSCGSCWAFGAVEAMSDRICIHTNGRVNVEVSAEDLLTCCGIQCGDGCNGGYPSGAWNFWTRKGLVSGGVYNSHIGCLPYTIPPCEHHVNGSRPPCTGEGDTPKCNKMCEAGYSTSYKEDKHYGYTSYSVSDSEKEIMAEIYKNGPVEGAFTVFSDFLTYKSGVYKHEAGDVMGGHAIRILGWGIENGVPYWLVANSWNVDWGDNGFFKILRGENHCGIESEIVAGIPRTQQYWGRF |
| 6997 | sp|Q92793|CBP\_HUMAN | MAENLLDGPPNPKRAKLSSPGFSANDSTDFGSLFDLENDLPDELIPNGGELGLLNSGNLVPDAASKHKQLSELLRGGSGSSINPGIGNVSASSPVQQGLGGQAQGQPNSANMASLSAMGKSPLSQGDSSAPSLPKQAASTSGPTPAASQALNPQAQKQVGLATSSPATSQTGPGICMNANFNQTHPGLLNSNSGHSLINQASQGQAQVMNGSLGAAGRGRGAGMPYPTPAMQGASSSVLAETLTQVSPQMTGHAGLNTAQAGGMAKMGITGNTSPFGQPFSQAGGQPMGATGVNPQLASKQSMVNSLPTFPTDIKNTSVTNVPNMSQMQTSVGIVPTQAIATGPTADPEKRKLIQQQLVLLLHAHKCQRREQANGEVRACSLPHCRTMKNVLNHMTHCQAGKACQVAHCASSRQIISHWKNCTRHDCPVCLPLKNASDKRNQQTILGSPASGIQNTIGSVGTGQQNATSLSNPNPIDPSSMQRAYAALGLPYMNQPQTQLQPQVPGQQPAQPQTHQQMRTLNPLGNNPMNIPAGGITTDQQPPNLISESALPTSLGATNPLMNDGSNSGNIGTLSTIPTAAPPSSTGVRKGWHEHVTQDLRSHLVHKLVQAIFPTPDPAALKDRRMENLVAYAKKVEGDMYESANSRDEYYHLLAEKIYKIQKELEEKRRSRLHKQGILGNQPALPAPGAQPPVIPQAQPVRPPNGPLSLPVNRMQVSQGMNSFNPMSLGNVQLPQAPMGPRAASPMNHSVQMNSMGSVPGMAISPSRMPQPPNMMGAHTNNMMAQAPAQSQFLPQNQFPSSSGAMSVGMGQPPAQTGVSQGQVPGAALPNPLNMLGPQASQLPCPPVTQSPLHPTPPPASTAAGMPSLQHTTPPGMTPPQPAAPTQPSTPVSSSGQTPTPTPGSVPSATQTQSTPTVQAAAQAQVTPQPQTPVQPPSVATPQSSQQQPTPVHAQPPGTPLSQAAASIDNRVPTPSSVASAETNSQQPGPDVPVLEMKTETQAEDTEPDPGESKGEPRSEMMEEDLQGASQVKEETDIAEQKSEPMEVDEKKPEVKVEVKEEEESSSNGTASQSTSPSQPRKKIFKPEELRQALMPTLEALYRQDPESLPFRQPVDPQLLGIPDYFDIVKNPMDLSTIKRKLDTGQYQEPWQYVDDVWLMFNNAWLYNRKTSRVYKFCSKLAEVFEQEIDPVMQSLGYCCGRKYEFSPQTLCCYGKQLCTIPRDAAYYSYQNRYHFCEKCFTEIQGENVTLGDDPSQPQTTISKDQFEKKKNDTLDPEPFVDCKECGRKMHQICVLHYDIIWPSGFVCDNCLKKTGRPRKENKFSAKRLQTTRLGNHLEDRVNKFLRRQNHPEAGEVFVRVVASSDKTVEVKPGMKSRFVDSGEMSESFPYRTKALFAFEEIDGVDVCFFGMHVQEYGSDCPPPNTRRVYISYLDSIHFFRPRCLRTAVYHEILIGYLEYVKKLGYVTGHIWACPPSEGDDYIFHCHPPDQKIPKPKRLQEWYKKMLDKAFAERIIHDYKDIFKQATEDRLTSAKELPYFEGDFWPNVLEESIKELEQEEEERKKEESTAASETTEGSQGDSKNAKKKNNKKTNKNKSSISRANKKKPSMPNVSNDLSQKLYATMEKHKEVFFVIHLHAGPVINTLPPIVDPDPLLSCDLMDGRDAFLTLARDKHWEFSSLRRSKWSTLCMLVELHTQGQDRFVYTCNECKHHVETRWHCTVCEDYDLCINCYNTKSHAHKMVKWGLGLDDEGSSQGEPQSKSPQESRRLSIQRCIQSLVHACQCRNANCSLPSCQKMKRVVQHTKGCKRKTNGGCPVCKQLIALCCYHAKHCQENKCPVPFCLNIKHKLRQQQIQHRLQQAQLMRRRMATMNTRNVPQQSLPSPTSAPPGTPTQQPSTPQTPQPPAQPQPSPVSMSPAGFPSVARTQPPTTVSTGKPTSQVPAPPPPAQPPPAAVEAARQIEREAQQQQHLYRVNINNSMPPGRTGMGTPGSQMAPVSLNVPRPNQVSGPVMPSMPPGQWQQAPLPQQQPMPGLPRPVISMQAQAAVAGPRMPSVQPPRSISPSALQDLLRTLKSPSSPQQQQQVLNILKSNPQLMAAFIKQRTAKYVANQPGMQPQPGLQSQPGMQPQPGMHQQPSLQNLNAMQAGVPRPGVPPQQQAMGGLNPQGQALNIMNPGHNPNMASMNPQYREMLRRQLLQQQQQQQQQQQQQQQQQQGSAGMAGGMAGHGQFQQPQGPGGYPPAMQQQQRMQQHLPLQGSSMGQMAAQMGQLGQMGQPGLGADSTPNIQQALQQRILQQQQMKQQIGSPGQPNPMSPQQHMLSGQPQASHLPGQQIATSLSNQVRSPAPVQSPRPQSQPPHSSPSPRIQPQPSPHHVSPQTGSPHPGLAVTMASSIDQGHLGNPEQSAMLPQLNTPSRSALSSELSLVGDTTGDTLEKFVEGL |
| 6998 | sp|P40685|CHRR\_RHOS4 | MTIRHHVSDALLTAYAAGTLSEAFSLVVATHLSLCDECRARAGALDAVGGSLMEETAPVALSEGSLASVMAQLDRQIQRPAPARRADPRAPAPLADYVGRRLEDVRWRTLGGGVRQAILPTGGEAIARLLWIPGGQAVPDHGHRGLELTLVLQGAFRDETDRFGAGDIEIADQELEHTPVAERGLDCICLAATDAPLRFNSFLPKLVQPFFRI |
| 6999 | sp|Q03188|CENPC\_HUMAN | MAASGLDHLKNGYRRRFCRPSRARDINTEQGQNVLEILQDCFEEKSLANDFSTNSTKSVPNSTRKIKDTCIQSPSKECQKSHPKSVPVSSKKKEASLQFVVEPSEATNRSVQAHEVHQKILATDVSSKNTPDSKKISSRNINDHHSEADEEFYLSVGSPSVLLDAKTSVSQNVIPSSAQKRETYTFENSVNMLPSSTEVSVKTKKRLNFDDKVMLKKIEIDNKVSDEEDKTSEGQERKPSGSSQNRIRDSEYEIQRQAKKSFSTLFLETVKRKSESSPIVRHAATAPPHSCPPDDTKLIEDEFIIDESDQSFASRSWITIPRKAGSLKQRTISPAESTALLQGRKSREKHHNILPKTLANDKHSHKPHPVETSQPSDKTVLDTSYALIGETVNNYRSTKYEMYSKNAEKPSRSKRTIKQKQRRKFMAKPAEEQLDVGQSKDENIHTSHITQDEFQRNSDRNMEEHEEMGNDCVSKKQMPPVGSKKSSTRKDKEESKKKRFSSESKNKLVPEEVTSTVTKSRRISRRPSDWWVVKSEESPVYSNSSVRNELPMHHNSSRKSTKKTNQSSKNIRKKTIPLKRQKTATKGNQRVQKFLNAEGSGGIVGHDEISRCSLSEPLESDEADLAKKKNLDCSRSTRSSKNEDNIMTAQNVPLKPQTSGYTCNIPTESNLDSGEHKTSVLEESGPSRLNNNYLMSGKNDVDDEEVHGSSDDSKQSKVIPKNRIHHKLVLPSNTPNVRRTKRTRLKPLEYWRGERIDYQGRPSGGFVISGVLSPDTISSKRKAKENIGKVNKKSNKKRICLDNDERKTNLMVNLGIPLGDPLQPTRVKDPETREIILMDLVRPQDTYQFFVKHGELKVYKTLDTPFFSTGKLILGPQEEKGKQHVGQDILVFYVNFGDLLCTLHETPYILSTGDSFYVPSGNYYNIKNLRNEESVLLFTQIKR |
| 7000 | sp|Q569L8|CENPJ\_MOUSE | MFLMPTSSELNSGQNFLTQWMTSPSRAGVILNRGFPILEADDKQAATNVSTSFPAKATHFSNSFSISSEEDSFHEEQKLEAGGPYKPWSENPEAPPVFPSVRKEPIASRQDAPGCQEDNNNDLTPHLESEFKEVANKNPLFKKLEQLKEIQQKKQEQLKRQQLEQLQRLMEEQEKLLTMVSAQHAFPGTLLPDDQSQKHRSPGDLTLPPHSYSNPTQENSCASNVLPDEQSNFCRATQDSVLTSKNASDLFYESQYQEAHVKRNDLKEESPAHPSGEGALPRWEKKMGRSQEGKDVNLQKCGDSSEVVNIDERPIKAAVREKQQTFEDYLEEQIQLEERELRQKQLQEAEGPLLAKTKPKQPFLKRGEGLARFTNAKSKFQKGKESKLASTQSPSEDQPGSKVDRQHLQRKTALINKDLCAETPTVKKDSKARPKAGFASLRQKPKVTKTNMRESLSPPGLKVQTGKKRDGQFRHQVKGERNAHASNKENVPACIKPWDAGCKMWSKTQGRERLPLSTGPVGCVVSRSPIRETDRETESSLDFSLQKKLEIWEREKEKENLELDEFLFLERAADEISFSSNSSFVLRILERDQQICDGHRLSSTPVKAVQQREAQQADPRGQSNCSEIPRYGVAHENESECEAMLLSWGSGSPDGLRELSCKRSMKAFQTSTSEIQSQWDARDDGVANSDSSTESEEQHDITIKPSTEVGDRVFSNREDSPQVCDAKGPIRDTGAQEDKWRDADLDLSDKECSSDESVIVESLNNKVLEPLRLPSSQAGSKIDFDDERSWTDLEENPYEHGVIHREEAIYGTPQTQCHSKSEGCVLDKTIKRKIAPVKKGEDFKCDRRISPPPPSDLMVKFFPSLKPKPKLDSHLENESKLNLSQDQPPEFMVCFIGDSVRSQVLREKVTELESEIEKFKAENTSLAKLRIERESALEKLRKEIADFEQQKARELARIEEYRKEETRKLQKERKVFEKYTAAARTFPDKKEREEIQALKQQIADLQEDLKRKETKWSSTQSRLRSQIEMLVKENTDLREEIKVMERFRLDAWKRAEAMENSPKACQYMMATKKDESMNSSFQFQKSHVSSGVQVEKYKKKYLPAQGNLSRRIKSAPPRDLGSSDKGQAALPREPLQQVNFPDLEYKNKEEKEEEIQGEISHPDGKVEKIYKNGRRVVLFPNGTRKEVSADGKSVTVTFFNGDVKQVMPDERVVYYYAAAQTTHTTYPEGLEVLHFSSGQIEKHFPDGRKEITFPDQTIKTLFADGQEESIFPDGTIVRVQRDGNKIIEFNNGQRELHTAQFKRREYPDGTVKTVYANGHQETKYTSGRVRVKDKDGNVLMDTEM |
| 7001 | sp|P09326|CD48\_HUMAN | MCSRGWDSCLALELLLLPLSLLVTSIQGHLVHMTVVSGSNVTLNISESLPENYKQLTWFYTFDQKIVEWDSRKSKYFESKFKGRVRLDPQSGALYISKVQKEDNSTYIMRVLKKTGNEQEWKIKLQVLDPVPKPVIKIEKIEDMDDNCYLKLSCVIPGESVNYTWYGDKRPFPKELQNSVLETTLMPHNYSRCYTCQVSNSVSSKNGTVCLSPPCTLARSFGVEWIASWLVVTVPTILGLLLT |
| 7002 | sp|P11912|CD79A\_HUMAN | MPGGPGVLQALPATIFLLFLLSAVYLGPGCQALWMHKVPASLMVSLGEDAHFQCPHNSSNNANVTWWRVLHGNYTWPPEFLGPGEDPNGTLIIQNVNKSHGGIYVCRVQEGNESYQQSCGTYLRVRQPPPRPFLDMGEGTKNRIITAEGIILLFCAVVPGTLLLFRKRWQNEKLGLDAGDEYEDENLYEGLNLDDCSMYEDISRGLQGTYQDVGSLNIGDVQLEKP |
| 7003 | sp|Q02224|CENPE\_HUMAN | MAEEGAVAVCVRVRPLNSREESLGETAQVYWKTDNNVIYQVDGSKSFNFDRVFHGNETTKNVYEEIAAPIIDSAIQGYNGTIFAYGQTASGKTYTMMGSEDHLGVIPRAIHDIFQKIKKFPDREFLLRVSYMEIYNETITDLLCGTQKMKPLIIREDVNRNVYVADLTEEVVYTSEMALKWITKGEKSRHYGETKMNQRSSRSHTIFRMILESREKGEPSNCEGSVKVSHLNLVDLAGSERAAQTGAAGVRLKEGCNINRSLFILGQVIKKLSDGQVGGFINYRDSKLTRILQNSLGGNAKTRIICTITPVSFDETLTALQFASTAKYMKNTPYVNEVSTDEALLKRYRKEIMDLKKQLEEVSLETRAQAMEKDQLAQLLEEKDLLQKVQNEKIENLTRMLVTSSSLTLQQELKAKRKRRVTWCLGKINKMKNSNYADQFNIPTNITTKTHKLSINLLREIDESVCSESDVFSNTLDTLSEIEWNPATKLLNQENIESELNSLRADYDNLVLDYEQLRTEKEEMELKLKEKNDLDEFEALERKTKKDQEMQLIHEISNLKNLVKHAEVYNQDLENELSSKVELLREKEDQIKKLQEYIDSQKLENIKMDLSYSLESIEDPKQMKQTLFDAETVALDAKRESAFLRSENLELKEKMKELATTYKQMENDIQLYQSQLEAKKKMQVDLEKELQSAFNEITKLTSLIDGKVPKDLLCNLELEGKITDLQKELNKEVEENEALREEVILLSELKSLPSEVERLRKEIQDKSEELHIITSEKDKLFSEVVHKESRVQGLLEEIGKTKDDLATTQSNYKSTDQEFQNFKTLHMDFEQKYKMVLEENERMNQEIVNLSKEAQKFDSSLGALKTELSYKTQELQEKTREVQERLNEMEQLKEQLENRDSTLQTVEREKTLITEKLQQTLEEVKTLTQEKDDLKQLQESLQIERDQLKSDIHDTVNMNIDTQEQLRNALESLKQHQETINTLKSKISEEVSRNLHMEENTGETKDEFQQKMVGIDKKQDLEAKNTQTLTADVKDNEIIEQQRKIFSLIQEKNELQQMLESVIAEKEQLKTDLKENIEMTIENQEELRLLGDELKKQQEIVAQEKNHAIKKEGELSRTCDRLAEVEEKLKEKSQQLQEKQQQLLNVQEEMSEMQKKINEIENLKNELKNKELTLEHMETERLELAQKLNENYEEVKSITKERKVLKELQKSFETERDHLRGYIREIEATGLQTKEELKIAHIHLKEHQETIDELRRSVSEKTAQIINTQDLEKSHTKLQEEIPVLHEEQELLPNVKEVSETQETMNELELLTEQSTTKDSTTLARIEMERLRLNEKFQESQEEIKSLTKERDNLKTIKEALEVKHDQLKEHIRETLAKIQESQSKQEQSLNMKEKDNETTKIVSEMEQFKPKDSALLRIEIEMLGLSKRLQESHDEMKSVAKEKDDLQRLQEVLQSESDQLKENIKEIVAKHLETEEELKVAHCCLKEQEETINELRVNLSEKETEISTIQKQLEAINDKLQNKIQEIYEKEEQFNIKQISEVQEKVNELKQFKEHRKAKDSALQSIESKMLELTNRLQESQEEIQIMIKEKEEMKRVQEALQIERDQLKENTKEIVAKMKESQEKEYQFLKMTAVNETQEKMCEIEHLKEQFETQKLNLENIETENIRLTQILHENLEEMRSVTKERDDLRSVEETLKVERDQLKENLRETITRDLEKQEELKIVHMHLKEHQETIDKLRGIVSEKTNEISNMQKDLEHSNDALKAQDLKIQEELRIAHMHLKEQQETIDKLRGIVSEKTDKLSNMQKDLENSNAKLQEKIQELKANEHQLITLKKDVNETQKKVSEMEQLKKQIKDQSLTLSKLEIENLNLAQKLHENLEEMKSVMKERDNLRRVEETLKLERDQLKESLQETKARDLEIQQELKTARMLSKEHKETVDKLREKISEKTIQISDIQKDLDKSKDELQKKIQELQKKELQLLRVKEDVNMSHKKINEMEQLKKQFEAQNLSMQSVRMDNFQLTKKLHESLEEIRIVAKERDELRRIKESLKMERDQFIATLREMIARDRQNHQVKPEKRLLSDGQQHLTESLREKCSRIKELLKRYSEMDDHYECLNRLSLDLEKEIEFQKELSMRVKANLSLPYLQTKHIEKLFTANQRCSMEFHRIMKKLKYVLSYVTKIKEEQHESINKFEMDFIDEVEKQKELLIKIQHLQQDCDVPSRELRDLKLNQNMDLHIEEILKDFSESEFPSIKTEFQQVLSNRKEMTQFLEEWLNTRFDIEKLKNGIQKENDRICQVNNFFNNRIIAIMNESTEFEERSATISKEWEQDLKSLKEKNEKLFKNYQTLKTSLASGAQVNPTTQDNKNPHVTSRATQLTTEKIRELENSLHEAKESAMHKESKIIKMQKELEVTNDIIAKLQAKVHESNKCLEKTKETIQVLQDKVALGAKPYKEEIEDLKMKLVKIDLEKMKNAKEFEKEISATKATVEYQKEVIRLLRENLRRSQQAQDTSVISEHTDPQPSNKPLTCGGGSGIVQNTKALILKSEHIRLEKEISKLKQQNEQLIKQKNELLSNNQHLSNEVKTWKERTLKREAHKQVTCENSPKSPKVTGTASKKKQITPSQCKERNLQDPVPKESPKSCFFDSRSKSLPSPHPVRYFDNSSLGLCPEVQNAGAESVDSQPGPWHASSGKDVPECKTQ |
| 7004 | sp|Q9NYQ7|CELR3\_HUMAN | MMARRPPWRGLGGRSTPILLLLLLSLFPLSQEELGGGGHQGWDPGLAATTGPRAHIGGGALALCPESSGVREDGGPGLGVREPIFVGLRGRRQSARNSRGPPEQPNEELGIEHGVQPLGSRERETGQGPGSVLYWRPEVSSCGRTGPLQRGSLSPGALSSGVPGSGNSSPLPSDFLIRHHGPKPVSSQRNAGTGSRKRVGTARCCGELWATGSKGQGERATTSGAERTAPRRNCLPGASGSGPELDSAPRTARTAPASGSAPRESRTAPEPAPKRMRSRGLFRCRFLPQRPGPRPPGLPARPEARKVTSANRARFRRAANRHPQFPQYNYQTLVPENEAAGTAVLRVVAQDPDAGEAGRLVYSLAALMNSRSLELFSIDPQSGLIRTAAALDRESMERHYLRVTAQDHGSPRLSATTMVAVTVADRNDHSPVFEQAQYRETLRENVEEGYPILQLRATDGDAPPNANLRYRFVGPPAARAAAAAAFEIDPRSGLISTSGRVDREHMESYELVVEASDQGQEPGPRSATVRVHITVLDENDNAPQFSEKRYVAQVREDVRPHTVVLRVTATDRDKDANGLVHYNIISGNSRGHFAIDSLTGEIQVVAPLDFEAEREYALRIRAQDAGRPPLSNNTGLASIQVVDINDHIPIFVSTPFQVSVLENAPLGHSVIHIQAVDADHGENARLEYSLTGVAPDTPFVINSATGWVSVSGPLDRESVEHYFFGVEARDHGSPPLSASASVTVTVLDVNDNRPEFTMKEYHLRLNEDAAVGTSVVSVTAVDRDANSAISYQITGGNTRNRFAISTQGGVGLVTLALPLDYKQERYFKLVLTASDRALHDHCYVHINITDANTHRPVFQSAHYSVSVNEDRPMGSTIVVISASDDDVGENARITYLLEDNLPQFRIDADSGAITLQAPLDYEDQVTYTLAITARDNGIPQKADTTYVEVMVNDVNDNAPQFVASHYTGLVSEDAPPFTSVLQISATDRDAHANGRVQYTFQNGEDGDGDFTIEPTSGIVRTVRRLDREAVSVYELTAYAVDRGVPPLRTPVSIQVMVQDVNDNAPVFPAEEFEVRVKENSIVGSVVAQITAVDPDEGPNAHIMYQIVEGNIPELFQMDIFSGELTALIDLDYEARQEYVIVVQATSAPLVSRATVHVRLVDQNDNSPVLNNFQILFNNYVSNRSDTFPSGIIGRIPAYDPDVSDHLFYSFERGNELQLLVVNQTSGELRLSRKLDNNRPLVASMLVTVTDGLHSVTAQCVLRVVIITEELLANSLTVRLENMWQERFLSPLLGRFLEGVAAVLATPAEDVFIFNIQNDTDVGGTVLNVSFSALAPRGAGAGAAGPWFSSEELQEQLYVRRAALAARSLLDVLPFDDNVCLREPCENYMKCVSVLRFDSSAPFLASASTLFRPIQPIAGLRCRCPPGFTGDFCETELDLCYSNPCRNGGACARREGGYTCVCRPRFTGEDCELDTEAGRCVPGVCRNGGTCTDAPNGGFRCQCPAGGAFEGPRCEVAARSFPPSSFVMFRGLRQRFHLTLSLSFATVQQSGLLFYNGRLNEKHDFLALELVAGQVRLTYSTGESNTVVSPTVPGGLSDGQWHTVHLRYYNKPRTDALGGAQGPSKDKVAVLSVDDCDVAVALQFGAEIGNYSCAAAGVQTSSKKSLDLTGPLLLGGVPNLPENFPVSHKDFIGCMRDLHIDGRRVDMAAFVANNGTMAGCQAKLHFCDSGPCKNSGFCSERWGSFSCDCPVGFGGKDCQLTMAHPHHFRGNGTLSWNFGSDMAVSVPWYLGLAFRTRATQGVLMQVQAGPHSTLLCQLDRGLLSVTVTRGSGRASHLLLDQVTVSDGRWHDLRLELQEEPGGRRGHHVLMVSLDFSLFQDTMAVGSELQGLKVKQLHVGGLPPGSAEEAPQGLVGCIQGVWLGSTPSGSPALLPPSHRVNAEPGCVVTNACASGPCPPHADCRDLWQTFSCTCQPGYYGPGCVDACLLNPCQNQGSCRHLPGAPHGYTCDCVGGYFGHHCEHRMDQQCPRGWWGSPTCGPCNCDVHKGFDPNCNKTNGQCHCKEFHYRPRGSDSCLPCDCYPVGSTSRSCAPHSGQCPCRPGALGRQCNSCDSPFAEVTASGCRVLYDACPKSLRSGVWWPQTKFGVLATVPCPRGALGAAVRLCDEAQGWLEPDLFNCTSPAFRELSLLLDGLELNKTALDTMEAKKLAQRLREVTGHTDHYFSQDVRVTARLLAHLLAFESHQQGFGLTATQDAHFNENLLWAGSALLAPETGDLWAALGQRAPGGSPGSAGLVRHLEEYAATLARNMELTYLNPMGLVTPNIMLSIDRMEHPSSPRGARRYPRYHSNLFRGQDAWDPHTHVLLPSQSPRPSPSEVLPTSSSIENSTTSSVVPPPAPPEPEPGISIIILLVYRTLGGLLPAQFQAERRGARLPQNPVMNSPVVSVAVFHGRNFLRGILESPISLEFRLLQTANRSKAICVQWDPPGLAEQHGVWTARDCELVHRNGSHARCRCSRTGTFGVLMDASPRERLEGDLELLAVFTHVVVAVSVAALVLTAAILLSLRSLKSNVRGIHANVAAALGVAELLFLLGIHRTHNQLVCTAVAILLHYFFLSTFAWLFVQGLHLYRMQVEPRNVDRGAMRFYHALGWGVPAVLLGLAVGLDPEGYGNPDFCWISVHEPLIWSFAGPVVLVIVMNGTMFLLAARTSCSTGQREAKKTSALTLRSSFLLLLLVSASWLFGLLAVNHSILAFHYLHAGLCGLQGLAVLLLFCVLNADARAAWMPACLGRKAAPEEARPAPGLGPGAYNNTALFEESGLIRITLGASTVSSVSSARSGRTQDQDSQRGRSYLRDNVLVRHGSAADHTDHSLQAHAGPTDLDVAMFHRDAGADSDSDSDLSLEEERSLSIPSSESEDNGRTRGRFQRPLCRAAQSERLLTHPKDVDGNDLLSYWPALGECEAAPCALQTWGSERRLGLDTSKDAANNNQPDPALTSGDETSLGRAQRQRKGILKNRLQYPLVPQTRGAPELSWCRAATLGHRAVPAASYGRIYAGGGTGSLSQPASRYSSREQLDLLLRRQLSRERLEEAPAPVLRPLSRPGSQECMDAAPGRLEPKDRGSTLPRRQPPRDYPGAMAGRFGSRDALDLGAPREWLSTLPPPRRTRDLDPQPPPLPLSPQRQLSRDPLLPSRPLDSLSRSSNSREQLDQVPSRHPSREALGPLPQLLRAREDSVSGPSHGPSTEQLDILSSILASFNSSALSSVQSSSTPLGPHTTATPSATASVLGPSTPRSATSHSISELSPDSEVPRSEGHS |
| 7005 | sp|A2A8L1|CHD5\_MOUSE | MRGPLGTEEELPRLFAEEMENEEEMSEEEDGGLEGFEDFFPAEPVSLPKKKPKKLKESKSSKGKRKKKEGSNDEMSDNEEDLEEKSESEGSDYSPTKKKKKKLKEKKEKKEKKEKRKKRGEDEDDNDDGGLKEPKSSGQLMAEWGLDDVDYLFSEDDYHTLTNYKAFSQFLRPLIAKKNPKIPMSKMMTVLGAKWREFSANNPFKGSSAAAAAAAVAAAVETVTIAPPLAISPQQVPQTLPIRKAKTKEGKGPGVRKKNKGAKDSKKKGRGKRVAGLKFRFGGISKRKKGSSSEEDEREDSDLDNASIHSSSVRSECSAALGKKNKRRRKKKRIDDGDGYETDHQDYCEVCQQGGEIILCDTCPRAYHLVCLDPELEKAPEGKWSCPHCEKEGIQWEPKDDDEEEEEGGCEEEEDDHMEFCRVCKDGGELLCCDACPSSYHLHCLNPPLPEIPNGEWLCPRCTCPPLKGKVQRILHWRWTEPPAPFVVGLPGPEVEPGMPPPRPLEGIPEREFFVKWAGLSYWHCSWVKELQLELYHTVMYRNYQRKNDMDEPPPFDYGSGDEDGKSEKRKNKDPLYAKMEERFYRYGIKPEWMMVHRILNHSFDKKGDIHYLIKWKDLPYDQCTWEIDEIDIPYYDNLKQAYWGHRELMLGEDARLPKRLVKKGKKLKDDKQEKPPDTPIVDPTVKFDKQPWYIDATGGTLHPYQLEGLNWLRFSWAQGTDTILADEMGLGKTVQTIVFLYSLYKEGHSKGPYLVSAPLSTIINWEREFEMWAPDFYVVTYTGDKESRSVIRENEFSFEDNAIRGGKKVFRMKKEVQIKFHVLLTSYELITIDQAILGSIEWACLVVDEAHRLKNNQSKFFRVLNSYKIDYKLLLTGTPLQNNLEELFHLLNFLTPERFNNLEGFLEEFADISKEDQIKKLHDLLGPHMLRRLKADVFKNMPAKTELIVRVELSQMQKKYYKFILTRNFEALNSKGGGNQVSLLNIMMDLKKCCNHPYLFPVAAVEAPVLPNGSYDGSSLVKSSGKLMLLQKMLKKLRDEGHRVLIFSQMTKMLDLLEDFLEYEGYKYERIDGGITGGLRQEAIDRFNAPGAQQFCFLLSTRAGGLGINLATADTVIIYDSDWNPHNDIQAFSRAHRIGQNKKVMIYRFVTRASVEERITQVAKRKMMLTHLVVRPGLGSKSGSMTKQELDDILKFGTEELFKDDVEGMMSQGQRPTTPIPDIQSTKGGSLTAGAKKKHGSTPPGDNKDVEDSSVIHYDDAAISKLLDRNQDATDDTELQNMNEYLSSFKVAQYVVREEDGVEEVEREVIKQEENVDPDYWEKLLRHHYEQQQEDLARNLGKGKRIRKQVNYNDASQEDQEWQDELSDNQSEYSIGSEDEDEDFEERPEGQSGRRQSRRQLKSDRDKPLPPLLARVGGNIEVLGFNARQRKAFLNAIMRWGMPPQDAFNSHWLVRDLRGKSEKEFRAYVSLFMRHLCEPGADGAETFADGVPREGLSRQHVLTRIGVMSLVRKKVQEFEHVNGKYSTPDLVPEGAEGKKPGEVISSDPNTPVPASPAQLPPAPLGLTDKMEAQLGYTDEKESGMQKPKKSLEIQTLPTALDRVEGEDKHQSSDSKDRAREERTEEVEKAQGSPEQPLKEEVLPDKEPIPDKPELSLGHSGDFRPDDPKTEEKEPGETQQNGDREEDEEGKKEDKNGKFKFMFNIADGGFTELHTLWQNEERAAVSSGKIYEIWHRRHDYWLLAGIVTHGYARWQDIQNDPRYMILNEPFKSEIHKGNYLEMKNKFLARRFKLLEQALVIEEQLRRAAYLNMTQDPNHPAMALNARLAEVECLAESHQHLSKESLAGNKPANAVLHKVLNQLEELLSDMKADVTRLPSMLSRIPPVAARLQMSERSILSRLTNRAGDPTIQQTSSRRRDFPLFQRSFPAEPSHLPNPRGREKLQPF |
| 7006 | sp|Q03311|CHLE\_MOUSE | MQTQHTKVTQTHFLLWILLLCMPFGKSHTEEDFIITTKTGRVRGLSMPVLGGTVTAFLGIPYAQPPLGSLRFKKPQPLNKWPDIHNATQYANSCYQNIDQAFPGFQGSEMWNPNTNLSEDCLYLNVWIPVPKPKNATVMVWIYGGGFQTGTSSLPVYDGKFLARVERVIVVSMNYRVGALGFLAFPGNPDAPGNMGLFDQQLALQWVQRNIAAFGGNPKSITIFGESAGAASVSLHLLCPQSYPLFTRAILESGSSNAPWAVKHPEEARNRTLTLAKFTGCSKENEMEMIKCLRSKDPQEILRNERFVLPSDSILSINFGPTVDGDFLTDMPHTLLQLGKVKKAQILVGVNKDEGTAFLVYGAPGFSKDNDSLITRKEFQEGLNMYFPGVSRLGKEAVLFYYVDWLGEQSPEVYRDALDDVIGDYNIICPALEFTKKFAELENNAFFYFFEHRSSKLPWPEWMGVMHGYEIEFVFGLPLGRRVNYTRAEEIFSRSIMKTWANFAKYGHPNGTQGNSTMWPVFTSTEQKYLTLNTEKSKIYSKLRAPQCQFWRLFFPKVLEMTGDIDETEQEWKAGFHRWSNYMMDWQNQFNDYTSKKESCTAL |
| 7007 | sp|P42082|CD86\_MOUSE | MDPRCTMGLAILIFVTVLLISDAVSVETQAYFNGTAYLPCPFTKAQNISLSELVVFWQDQQKLVLYEHYLGTEKLDSVNAKYLGRTSFDRNNWTLRLHNVQIKDMGSYDCFIQKKPPTGSIILQQTLTELSVIANFSEPEIKLAQNVTGNSGINLTCTSKQGHPKPKKMYFLITNSTNEYGDNMQISQDNVTELFSISNSLSLSFPDGVWHMTVVCVLETESMKISSKPLNFTQEFPSPQTYWKEITASVTVALLLVMLLIIVCHKKPNQPSRPSNTASKLERDSNADRETINLKELEPQIASAKPNAE |
| 7008 | sp|P10815|CG23\_SCHPO | MTTRRLTRQHLLANTLGNNDENHPSNHIARAKSSLHSSENSLVNGKKATVSSTNVPKKRHALDDVSNFHNKEGVPLASKNTNVRHTTASVSTRRALEEKSIIPATDDEPASKKRRQPSVFNSSVPSLPQHLSTKSHSVSTHGVDAFHKDQATIPKKLKKDVDERVVSKDIPKLHRDSVESPESQDWDDLDAEDWADPLMVSEYVVDIFEYLNELEIETMPSPTYMDRQKELAWKMRGILTDWLIEVHSRFRLLPETLFLAVNIIDRFLSLRVCSLNKLQLVGIAALFIASKYEEVMCPSVQNFVYMADGGYDEEEILQAERYILRVLEFNLAYPNPMNFLRRISKADFYDIQTRTVAKYLVEIGLLDHKLLPYPPSQQCAAAMYLAREMLGRGPWNRNLVHYSGYEEYQLISVVKKMINYLQKPVQHEAFFKKYASKKFMKASLFVRDWIKKNSIPLGDDADEDYTFHKQKRIQHDMKDEEW |
| 7009 | sp|O35648|CETN3\_MOUSE | MSLALRGELVVDKTKRKKRRELSEEQKQEIKDAFELFDTDKDQAIDYHELKVAMRALGFDVKKADVLKILKDYDREATGKITFEDFNEVVTDWILERDPHEEILKAFKLFDDDDSGKISLRNLRRVARELGENMSDEELRAMIEEFDKDGDGEINQEEFIAIMTGDI |
| 7010 | sp|Q5XF33|CHLI2\_ARATH | MASLLGRSPSSILTCPRISSPSSTSSMSHLCFGPEKLSGRIQFNPKKNRSRYHVSVMNVATEINSVEQAKKIDSKESARPVYPFAAIVGQDEMKLCLLLNVIDPKIGGVMIMGDRGTGKSTTVRSLVDLLPEITVVSGDPYNSDPRDPECMGKEVREKVQKGEELSVIETKINMVDLPLGATEDRVCGTIDIEKALTEGVKAFEPGLLAKANRGILYVDEVNLLDDHLVDVLLDSAASGWNTVEREGISISHPARFILIGSGNPEEGELRPQLLDRFGMHAQVGTVRDAELRVKIVEERARFDSNPKEFRETYQEEQLKLQEQITTARSNLSAVQIDQDLKVKISKVCAELDVDGLRGDMVINRAARALAALQGRDQVTAEDVGIVIPNCLRHRLRKDPLESMDSGILVTEKFYEVFT |
| 7011 | sp|Q3UMW8|CLN5\_MOUSE | MLRGGPCGAHWRPALALALLGLATILGASPTSGQRWPVPYKRFSFRPKTDPYCQAKYTFCPTGSPIPVMKDNDVIEVLRLQAPIWEFKYGDLLGHFKLMHDAVGFRSTLTGKNYTIEWYELFQLGNCTFPHLRPDKSAPFWCNQGAACFFEGIDDKHWKENGTLSVVATISGNTFNKVAEWVKQDNETGIYYETWTVRAGPGQGAQTWFESYDCSNFVLRTYKKLAEFGTEFKKIETNYTKIFLYSGEPIYLGNETSIFGPKGNKTLALAIKKFYGPFRPYLSTKDFLMNFLKIFDTVIIHRQFYLFYNFEYWFLPMKPPFVKITYEETPLPTRHTTFTDL |
| 7012 | sp|Q9PT63|CKAP5\_XENLA | MGDDSEWMKLPIDQKCEHKVWKARLNGYEEAVKLFQKIVDEKSPEWSKYLGLIKRFVTESNAVAQLKGLEAALVYVENAHVAGKTTGEVVNGVVNKVFNQPKARAKELGADICLMYVEIEKAEVVQEELLKGLDNKNPKIVVACVETVRKALSEFGSKIMTLKPIIKVLPKLFESREKAIRDEAKLLAVEIYRWIRDALRPPLQNINPVQLKELEEEWVKLPQSAPKQTRFLRSQQDLKAKFEQQQAAGDDGGDDGEEEIVPQVDAYELLEAVEILSKLPKDFYDKIEAKKWQERKEALEAVEALVKNPKIEAGDFADLVKALKTVVGKDTNVMLVALAAKCIAGLAAGLRKKFGSYAGHIVPTILEKFKEKKPQVVQALQEAIDAVFLTTTLQNISEDVLAVMDNKNPAIKQQTSLFLARSFRHCTPSTLPKSLLKPFCVALLKQINDSAPEVRDAAFEALGTAQKVVGEKAVNPFLAEVDKLKLDRIKECADKAELANGKKGGAAAGEKKETKAPAAAPGKPVPNQGAAAEKDAGKAAAAPKKAPAAKPGGPVKKAKAPASSGATAKGKKAVENKEIIEQELSPEACEERAAAVLPASCMQQLDSSNWKERLASMEEFQKTVESMERNDIPCQALVKMLAKKPGFKETNFQVMQMKLHIVALIAQKGNFSKTSACAVLDGLVDKVGDVKCGGNAKEALSGIAEACTLPWTAEQVVSLAFAQKNPKNQSETLNWLSNAIKEFGFTGINVKAFISNVKTALAATNPAIRTSAITLLGVMYLYMGAPLRMFFEEEKPALLSQIDAEFEKMKGQTPPVSIRGSKHGSGRDEGEEGEEQDEDAPADVTDLLPRTDISDKISSDLVSKIEDKNWKIRKEGLDEVTAIINEAKFIQPSIGELPSALKGRLNDSNKILVQQTLTILQQLSTAMGHNIKQHVKNLGMPIITVLGDSKANVRAAALGTLKSWVDQTGMKDWLEGEDLSEELKKENPFLRQELLGWLAEKLPSMRTVPSDLQLCVPYLYNCLEDRNGDVRKKAQEALPIFMMHIGFEKMSKATSKLKPASKDQVVALLEKAKASMPAKPAGPPGKASSKQPPAVAQASASPPPAASSDSGSSTSDYKPDPKKTKPGTQASKAKTQSVSSEGNTSLNPSNTSLTPSKANTSLSKAKPAKQTLPGKKAPSKPNAKDEEDKSGPIYIIVPNGKEQRVKDEKALKVLKWNFTTPRDEYIEQLKTQMSPCIARWLQDELFHADFQRQIKGLAVMTEHLESEKEGVISCLDLVLKWFTLRFFDTNTSVLMKCLEYLKLLFIMLSQEEYHLTEMEGTSFLPYLMLKVGEPKDIVRKDVRAILTKMCQVYPASKMFNFVMEGTKSKNSKQRAECLEELGCLVESYGMNVCQPTPAKALKEIAIHIGDRDTTVRNAALNTIVTVYNVHGEQVFKLIGNLSEKDMSMLEERIKRAGKKQAAAAPAKQVEEKPQRVQSANASILRKAPPEDMSSKLNQARNMGGHTEPSHSVPREFQLDLDEIENDNGTVRCEMPALVQHKLDEIFEPVLIPEPKIRAVSPHFDDMHSNTASTINFVISQVASVDINASIQALAQIDEVLRQEDKAEAMSGHIDQFLIATFMQLRLAYNTHMADERLDKDDIVRLYSCIIGNMISLFQMESLAREASTGVLKDLMHGLISLMLDARIEDLEEGQQVVRSVNLLVVKVLEKSDQTNIISALLMLLQDSLLATASSPNFSELVMKCLWRMIRLLPEAINNLNLDRILLDIHNFMRVLPKEKLKQHKSEMPMRTLKTLLHTLCKLKGPKIMDHLSMIENKHESELEAHLLRVMKHSIDRTGSKGDKETEKGASCIEDKVGKANVSDFLAEMFKKIGSKENTKEGLAELYEYKKKYSDADIKPFLKNSSQFFQSYVERGLRLIEMEREGKARIAPNTGMSTHVTEMTPLPTVTNTAAPVSNTNGEEVGPSVYLERLKILRQRCGLDNAKQDERPPLTSLLSKSSAPAVVSSTDMLHSKLSQLRESREQFQHVELDSNQTYPSTTTSSSASSTNIDDLKKRLERIKSSRK |
| 7013 | sp|Q9Y6G9|DC1L1\_HUMAN | MAAVGRVGSFGSSPPGLSSTYTGGPLGNEIASGNGGAAAGDDEDGQNLWSCILSEVSTRSRSKLPAGKNVLLLGEDGAGKTSLIRKIQGIEEYKKGRGLEYLYLNVHDEDRDDQTRCNVWILDGDLYHKGLLKFSLDAVSLKDTLVMLVVDMSKPWTALDSLQKWASVVREHVDKLKIPPEEMKQMEQKLIRDFQEYVEPGEDFPASPQRRNTASQEDKDDSVVLPLGADTLTHNLGIPVLVVCTKCDAISVLEKEHDYRDEHFDFIQSHIRKFCLQYGAALIYTSVKENKNIDLVYKYIVQKLYGFPYKIPAVVVEKDAVFIPAGWDNDKKIGILHENFQTLKAEDNFEDIITKPPVRKFVHEKEIMAEDDQVFLMKLQSLLAKQPPTAAGRPVDASPRVPGGSPRTPNRSVSSNVASVSPIPAGSKKIDPNMKAGATSEGVLANFFNSLLSKKTGSPGGPGVSGGSPAGGAGGGSSGLPPSTKKSGQKPVLDVHAELDRITRKPVTVSPTTPTSPTEGEAS |
| 7014 | sp|O60610|DIAP1\_HUMAN | MEPPGGSLGPGRGTRDKKKGRSPDELPSAGGDGGKSKKFTLKRLMADELERFTSMRIKKEKEKPNSAHRNSSASYGDDPTAQSLQDVSDEQVLVLFEQMLLDMNLNEEKQQPLREKDIIIKREMVSQYLYTSKAGMSQKESSKSAMMYIQELRSGLRDMPLLSCLESLRVSLNNNPVSWVQTFGAEGLASLLDILKRLHDEKEETAGSYDSRNKHEIIRCLKAFMNNKFGIKTMLETEEGILLLVRAMDPAVPNMMIDAAKLLSALCILPQPEDMNERVLEAMTERAEMDEVERFQPLLDGLKSGTTIALKVGCLQLINALITPAEELDFRVHIRSELMRLGLHQVLQDLREIENEDMRVQLNVFDEQGEEDSYDLKGRLDDIRMEMDDFNEVFQILLNTVKDSKAEPHFLSILQHLLLVRNDYEARPQYYKLIEECISQIVLHKNGADPDFKCRHLQIEIEGLIDQMIDKTKVEKSEAKAAELEKKLDSELTARHELQVEMKKMESDFEQKLQDLQGEKDALHSEKQQIATEKQDLEAEVSQLTGEVAKLTKELEDAKKEMASLSAAAITVPPSVPSRAPVPPAPPLPGDSGTIIPPPPAPGDSTTPPPPPPPPPPPPPLPGGVCISSPPSLPGGTAISPPPPLSGDATIPPPPPLPEGVGIPSPSSLPGGTAIPPPPPLPGSARIPPPPPPLPGSAGIPPPPPPLPGEAGMPPPPPPLPGGPGIPPPPPFPGGPGIPPPPPGMGMPPPPPFGFGVPAAPVLPFGLTPKKLYKPEVQLRRPNWSKLVAEDLSQDCFWTKVKEDRFENNELFAKLTLTFSAQTKTSKAKKDQEGGEEKKSVQKKKVKELKVLDSKTAQNLSIFLGSFRMPYQEIKNVILEVNEAVLTESMIQNLIKQMPEPEQLKMLSELKDEYDDLAESEQFGVVMGTVPRLRPRLNAILFKLQFSEQVENIKPEIVSVTAACEELRKSESFSNLLEITLLVGNYMNAGSRNAGAFGFNISFLCKLRDTKSTDQKMTLLHFLAELCENDYPDVLKFPDELAHVEKASRVSAENLQKNLDQMKKQISDVERDVQNFPAATDEKDKFVEKMTSFVKDAQEQYNKLRMMHSNMETLYKELGEYFLFDPKKLSVEEFFMDLHNFRNMFLQAVKENQKRRETEEKMRRAKLAKEKAEKERLEKQQKREQLIDMNAEGDETGVMDSLLEALQSGAAFRRKRGPRQANRKAGCAVTSLLASELTKDDAMAAVPAKVSKNSETFPTILEEAKELVGRAS |
| 7015 | sp|Q8JZM4|DNER\_MOUSE | MPPRRAQAPGAPLLPVLALLPLLLGAGPQSGCLASPVSAAPLPAPGPCASQPCRNGGVCTPRSVTDQEHPAADAEPRYSCTCPAGVSGTYCQFVADPCASNPCHHGNCSSSSSSSSDSYLCICNDGYEGLNCEQPLPSIPTSGWTESTAPRQLQPVPATQEPDIILPRSQATVTLPTWQPKTGQKVVEMKWDQVEVVPDVACGNASSNNSAGGRLVSFEVPQNTSVKIRQDANSLLILLWKVTATGFQQCSLIDGRSVTPLQAPGGLVLLEEMLALGPNHFIGFVNDSVAKSIVALRLTLVVKASNCVPGDSHSNDLECSGKGKCATKPSEATFSCTCQDQYIGTFCEEFDACQRKPCQNEASCIDANEKQDGSNFTCLCLPGYTGELCQSKIDYCVLDPCRNGATCVSSLSGFTCQCLEGYFGSACEEKVDPCMSSPCQNNGTCYVDGVHFTCSCSPGFTGPTCAQLVDFCALSPCAHGMCRSVGTSYKCLCDPGYHGLYCEEEYNECLSAPCLNAATCRDLINGYECVCLAEYKGTHCELYKDPCANISCLNGGTCDSEGLNGTCICAPGFTGEECDIDINECDSNPCHHAGTCLDQPNGYTCHCPHGWVGANCEIHLQWKSGHMAESLTNMPRHSLYIIIGALCVAFILMLIILIVGICRISRIEYQGSSRPAYEEFYNCRSIDSEFSNAIASIRHARFGKKSRPAMYDVTPIAYEDYSPDDKPLVTLIKTKDL |
| 7016 | sp|Q9VZZ9|DOS\_DROME | MDRTFYEGWLIKSPPTKRIWRARWRRRYFTLKQGEIPEQFCLEYYTDHNCRKLKGVIDLDQCEQVDCGLRLENRKQKFQYMFDIKTPKRTYYLAAETEADMRDWVNCICQVCHLHDTKQSNELPLGAVGADENRTQHTSSSGGLSNSTQNTTTTSLHSSAGTTAPQASVPNAGGSAQLRRPAVIEEQPMPSNAGNNNSDSVYVNTEYSNRETMLCDANFDQQELLSAAQQQPPPSPATALYLNHSALIQAQAAAAAAEQLQQQQQQAARLAVSANGVVRKLPEHLVLTQQTLAEAAAQQHSSVQASPALSTASGPYIPISECFSGSPRFLPGVPLPGADLAIPNNPTTPLNNLDPKFYDTPRSHNNIGLNLTNDQSYSPKITNLSLQQLANNNASKQRSDSDSESVFTDDDEWAHPLPLRENVDRSTRPSDSSIENESFVLTYSQRFSKMPEEGGAIVPPAEKSSKLAGAASLPEAGDQGTLDKLAKVLKNKNNLILDFKENEKIPRDLPQLSDTENTSPAIVARRNAHSAFIEESYDIPRSHQQPYYNVNQLLGERPVTSPHNSNPIAASTPNLMAADLGAVAAISAAANPGLMGEAQAVASSPTSARTLPRHCYTNAAPTKMEGNVFRYDFMEQADCPPVNRKLKPKVAGGLPVVEDKPPEEFPAKPPVGVDQLTNKLGAAQLQQPIGPPSVDRKCKPNAYKLGNSATMSPATRRSSGAPLSMVLPHETDVHSPAAANAFFHETRTLPRQQHRHHPNSPGSMSVQHQRTASAAAAMMSLTAAAAPKQQAAAQTEHKLQYFDLDVTNKPPLLNRSSMSVGNLYSQGGNGASGMRFAGVEAGGARAPVPSSVVYRSVDFVKTEAFKRIREERESSGNK |
| 7017 | sp|Q155Q3|DIXC1\_HUMAN | MLACLTRGNLLDVLQEGFNEQQLQAYVAWVNAQLKKRPAVKPVQDLRQDLRDGVILAYLIEIVAGEKLSGVQLSPGNQQEMKNNVEKVLQFVASKKIRMHQTSAKDIVDGNLKSIMRLVLALAAHFKPGSSRTVNQGRDSRAPLQSHRPHCATAVAQGAAAALADVCHDMSRSGRDVFRYRQRNSSMDEEIENPYWSVRALVQQYEGQQRSPSESSCSSLTSPSPIHSAKSESIITQSEEKADFVIIPAEGIENRTEGTDSPLSRDWRPGSPGTYLETSWEEQLLEQQEYLEKEMEEAKKMISGLQALLLNGSLPEDEQERPLALCEPGVNPEEQLIIIQSRLDQSMEENQDLKKELLKCKQEARNLQGIKDALQQRLTQQDTSVLQLKQELLRANMDKDELHNQNVDLQRKLDERNRLLGEYKKELGQKDRLLQQHQAKLEEALRKLSDVSYHQVDLERELEHKDVLLAHCMKREADEATNYNSHNSQSNGFLLPTAGKGATSVSNRGTSDLQLVRDALRSLRNSFSGHDPQHHTIDSLEQGISSLMERLHVMETQKKQERKVRVKSPRTQVGSEYRESWPPNSKLPHSQSSPTVSSTCTKVLYFTDRSLTPFMVNIPKRLEEVTLKDFKAAIDREGNHRYHFKALDPEFGTVKEEIFHDDDAIPGWEGKIVAWVEEDHGEN |
| 7018 | sp|O14490|DLGP1\_HUMAN | MKGLSGSRSHHHGVTCDSACDSLSHHSDRKPYLLSPVEHHPADHPYYTQRNSFQAECVGPFSDPLASSTFPRRHYTSQQELKDECALVPRTLATKANRIPANLLDQFERQLPLSRDGYHTLQYKRTAVEHRSDSPGRIRHLVHSVQKLFTKSHSLEGPSKGSVNGGKASPDEAQAARYGKRSKSKERRAEPKARPSTSPGWWSSDDNLDGDMCIYHAPSGVMTMGRCPDRSASQYFLEAYNTISEQAVKASRSNNDVKCSTCANLPVSLDTPLLKKSAWSSTLTVSRAREVYQKASVNMDQAMVKSESCQQERSCQYLQVPQDEWTGYTPRGKDDEIPCRRMRSGSYIKAMGDEDSGDSDTSPKPSPKVAARRESYLKATQPSLTELTTLKISNEHSPKLQIRSHSYLRAVSEVSINRSLDSLDPAGLLTSPKFRSRNESYMRAMSTISQVSEMEVNGQFESVCESVFSELESQAVEALDLPMPGCFRMRSHSYVRAIEKGCSQDDECVSLRSSSPPRTTTTVRTIQSSTVSSCITTYKKTPPPVPPRTTTKPFISITAQSSTESAQDAYMDGQGQRGDIISQSGLSNSTESLDSMKALTAAIEAANAQIHGPASQHMGNNTATVTTTTTIATVTTEDRKKDHFKKNRCLSIGIQVDDAEEPDKTGENKAPSKFQSVGVQVEEEKCFRRFTRSNSVTTAVQADLDFHDNLENSLESIEDNSCPGPMARQFSRDASTSTVSIQGSGNHYHACAADDDFDTDFDPSILPPPDPWIDSITEDPLEAVQRSVCHRDGHWFLKLLQAERDRMEGWCQQMEREERENNLPEDILGKIRTAVGSAQLLMAQKFYQFRELCEENLNPNAHPRPTSQDLAGFWDMLQLSIENISMKFDELHQLKANNWKQMDPLDKKERRAPPPVPKKPAKGPAPLIRERSLESSQRQEARKRLMAAKRAASVRQNSATESAESIEIYIPEAQTRL |
| 7019 | sp|Q6DI48|DLLA\_DANRE | MGRHLLLLLFSILYMLLCQASSSGVFELKLQEFLNKKGVQGNKNCCKGGLTTSYQQCECKTFFRICLKHYQPNASPEPPCTYGGTVTPVLGSNSFQVPDTLPDGSFTNPIRMNFGFTWPGTFSLIIEALHADSKEDLTTENPERIISTMTTQRHLTVGEDWSQDLHSVGRTELKYSYRFVCDEHYYGEGCSVFCRPRDDAFGHFTCGERGEIICDAGWKGQYCTEPICLPGCDEEHGFCEKPGECKCRVGFKGRYCDECIRYPGCLHGTCQQPWQCNCQEGWGGLFCNQDLNYCTHHKPCLNGATCSNTGQGSYTCSCRPGFSGASCEIEVNECTGNPCRNGGSCTDMENTYSCTCPPGFYGKNCELSAMTCADGPCFNGGRCADNPDGGYFCQCPTGYAGFNCEKKIDHCSSSPCSNGARCVDLVNSYLCQCPDGFTGMNCDRAGDECSMYPCQNGGTCQEGASGYMCTCPPGYTGRNCSSPVSRCQHNPCHNGATCHERNNRYVCACVSGYGGRNCQFLLPDRASQIASDVPWTAVGSGVLLVLLLVVACAVVVVCVRSKVQQRRRDREDEVANGENETINNLTNNCHRDKDLAVSVVGVAPVKNINKKIDFSSDHDDLSLTTEKRSYKTRHAPADYNLVHEVKFEVKHEVKLEHAGKETTMANELSDSCEDIKCQSLQDSSECTEEKRRKRLKSDASEKSKYSESRYSESKYSESKYSESKYSDVSLYSESACASACASASTSACVDTKYKSVMVMSEEKDECVIATEV |
| 7020 | sp|P51660|DHB4\_MOUSE | MASPLRFDGRVVLVTGAGGGLGRAYALAFAERGALVIVNDLGGDFKGIGKGSSAADKVVAEIRRKGGKAVANYDSVEAGEKLVKTALDTFGRIDVVVNNAGILRDRSFSRISDEDWDIIHRVHLRGSFQVTRAAWDHMKKQNYGRILMTSSASGIYGNFGQANYSAAKLGILGLCNTLAIEGRKNNIHCNTIAPNAGSRMTETVLPEDLVEALKPEYVAPLVLWLCHESCEENGGLFEVGAGWIGKLRWERTLGAIVRKRNQPMTPEAVRDNWEKICDFSNASKPQTIQESTGGIVEVLHKVDSEGISPNRTSHAAPAATSGFVGAVGHKLPSFSSSYTELQSIMYALGVGASVKNPKDLKFVYEGSADFSCLPTFGVIVAQKSMMNGGLAEVPGLSFNFAKALHGEQYLELYKPLPRSGELKCEAVIADILDKGSGVVIVMDVYSYSGKELICYNQFSVFVVGSGGFGGKRTSEKLKAAVAVPNRPPDAVLRDATSLNQAALYRLSGDWNPLHIDPDFASVAGFEKPILHGLCTFGFSARHVLQQFADNDVSRFKAIKVRFAKPVYPGQTLQTEMWKEGNRIHFQTKVHETGDVVISNAYVDLVPASGVSTQTPSEGGELQSALVFGEIGRRLKSVGREVVKKANAVFEWHITKGGTVAAKWTIDLKSGSGEVYQGPAKGSADVTIIISDEDFMEVVFGKLDPQKAFFSGRLKARGNIMLSQKLQMILKDYAKL |
| 7021 | sp|Q99J56|DERL1\_MOUSE | MSDIGDWFRSIPAITRYWFAATVAVPLIGKLGIISPAYFFLWPEAFLYRFQIWRPFTATFYFPVGPGTGFLYLVNLYFLYQYSTRLEAGAFDGRPADYLFMLLFNWICIVITGLAMDMQLLMIPLIMSVLYVWAQLNRDLIVSFWFGTRFKACYLPWVILGFNYIIGGSVINELIGNLVGHLYFFLMFRYPMDLGGRNFLSTPQFLYRWLPSRRGGVSGFGVPPASMRRAADQNGGGGRHNWGQGFRLGDQ |
| 7022 | sp|P30729|DRD4\_RAT | MGNSSATGDGGLLAGRGPESLGTGTGLGGAGAAALVGGVLLIGMVLAGNSLVCVSVASERILQTPTNYFIVSLAAADLLLAVLVLPLFVYSEVQGGVWLLSPRLCDTLMAMDVMLCTASIFNLCAISVDRFVAVTVPLRYNQQGQCQLLLIAATWLLSAAVAAPVVCGLNDVPGRDPTVCCLEDRDYVVYSSICSFFLPCPLMLLLYWATFRGLRRWEAARHTKLHSRAPRRPSGPGPPVSDPTQGPLFSDCPPPSPSLRTSPTVSSRPESDLSQSPCSPGCLLPDAALAQPPAPSSRRKRGAKITGRERKAMRVLPVVVGAFLMCWTPFFVVHITRALCPACFVSPRLVSAVTWLGYVNSALNPIIYTIFNAEFRSVFRKTLRLRC |
| 7023 | sp|P51807|DYLT1\_MOUSE | MEDFQASEETAFVVDEVSSIVKEAIESAIGGNAYQHSKVNQWTTNVLEQTLSQLTKLGRPFKYIVTCVIMQKNGAGLHSASSCFWDSSTDGSCTVRWENKTMYCIVSTFGLSI |
| 7024 | sp|O77932|DXO\_HUMAN | MDPRGTKRGAEKTEVAEPRNKLPRPAPSLPTDPALYSGPFPFYRRPSELGCFSLDAQRQYHGDARALRYYSPPPTNGPGPNFDLRDGYPDRYQPRDEEVQERLDHLLCWLLEHRGRLEGGPGWLAEAIVTWRGHLTKLLTTPYERQEGWQLAASRFQGTLYLSEVETPNARAQRLARPPLLRELMYMGYKFEQYMCADKPGSSPDPSGEVNTNVAFCSVLRSRLGSHPLLFSGEVDCTDPQAPSTQPPTCYVELKTSKEMHSPGQWRSFYRHKLLKWWAQSFLPGVPNVVAGFRNPDGFVSSLKTFPTMKMFEYVRNDRDGWNPSVCMNFCAAFLSFAQSTVVQDDPRLVHLFSWEPGGPVTVSVHQDAPYAFLPIWYVEAMTQDLPSPPKTPSPK |
| 7025 | sp|Q8TDB6|DTX3L\_HUMAN | MASHLRPPSPLLVRVYKSGPRVRRKLESYFQSSKSSGGGECTVSTQEHEAPGTFRVEFSERAAKERVLKKGEHQILVDEKPVPIFLVPTENSIKKNTRPQISSLTQSQAETPSGDMHQHEGHIPNAVDSCLQKIFLTVTADLNCNLFSKEQRAYITTLCPSIRKMEGHDGIEKVCGDFQDIERIHQFLSEQFLESEQKQQFSPSMTERKPLSQQERDSCISPSEPETKAEQKSNYFEVPLPYFEYFKYICPDKINSIEKRFGVNIEIQESSPNMVCLDFTSSRSGDLEAARESFASEFQKNTEPLKQECVSLADSKQANKFKQELNHQFTKLLIKEKGGELTLLGTQDDISAAKQKISEAFVKIPVKLFAANYMMNVIEVDSAHYKLLETELLQEISEIEKRYDICSKVSEKGQKTCILFESKDRQVDLSVHAYASFIDAFQHASCQLMREVLLLKSLGKERKHLHQTKFADDFRKRHPNVHFVLNQESMTLTGLPNHLAKAKQYVLKGGGMSSLAGKKLKEGHETPMDIDSDDSKAASPPLKGSVSSEASELDKKEKGICVICMDTISNKKVLPKCKHEFCAPCINKAMSYKPICPTCQTSYGIQKGNQPEGSMVFTVSRDSLPGYESFGTIVITYSMKAGIQTEEHPNPGKRYPGIQRTAYLPDNKEGRKVLKLLYRAFDQKLIFTVGYSRVLGVSDVITWNDIHHKTSRFGGPEMYGYPDPSYLKRVKEELKAKGIE |
| 7026 | sp|Q9LJE5|ECT2\_ARATH | MATVAPPADQATDLLQKLSLDSPAKASEIPEPNKKTAVYQYGGVDVHGQVPSYDRSLTPMLPSDAADPSVCYVPNPYNPYQYYNVYGSGQEWTDYPAYTNPEGVDMNSGIYGENGTVVYPQGYGYAAYPYSPATSPAPQLGGEGQLYGAQQYQYPNYFPNSGPYASSVATPTQPDLSANKPAGVKTLPADSNNVASAAGITKGSNGSAPVKPTNQATLNTSSNLYGMGAPGGGLAAGYQDPRYAYEGYYAPVPWHDGSKYSDVQRPVSGSGVASSYSKSSTVPSSRNQNYRSNSHYTSVHQPSSVTGYGTAQGYYNRMYQNKLYGQYGSTGRSALGYGSSGYDSRTNGRGWAATDNKYRSWGRGNSYYYGNENNVDGLNELNRGPRAKGTKNQKGNLDDSLEVKEQTGESNVTEVGEADNTCVVPDREQYNKEDFPVDYANAMFFIIKSYSEDDVHKSIKYNVWASTPNGNKKLAAAYQEAQQKAGGCPIFLFFSVNASGQFVGLAEMTGPVDFNTNVEYWQQDKWTGSFPLKWHIVKDVPNSLLKHITLENNENKPVTNSRDTQEVKLEQGLKIVKIFKEHSSKTCILDDFSFYEVRQKTILEKKAKQTQKQVSEEKVTDEKKESATAESASKESPAAVQTSSDVKVAENGSVAKPVTGDVVANGC |
| 7027 | sp|Q8AZK7|EBNA5\_EBVB9 | MGDRSEGPGPTRPGPPGIGPEGPLGQLLRRHRSPSPTRGGQEPRRVRRRVLVQQEEEVVSGSPSGPRGDRSEGPGPTRPGPPGIGPEGPLGQLLRRHRSPSPTRGGQEPRRVRRRVLVQQEEEVVSGSPSGPRGDRSEGPGPTRPGPPGIGPEGPLGQLLRRHRSPSPTRGGQEPRRVRRRVLVQQEEEVVSGSPSGPRGDRSEGPGPTRPGPPGIGPEGPLGQLLRRHRSPSPTRGGQEPRRVRRRVLVQQEEEVVSGSPSGPRGDRSEGPGPTRPGPPGIGPEGPLGQLLRRHRSPSPTRGGQEPRRVRRRVLVQQEEEVVSGSPSGPRGDRSEGPGPTRPGPPGIGPEGPLGQLLRRHRSPSPTRGGQEPRRVRRRVLVQQEEEVVSGSPSGPRGDRSEGPGPTRPGPPGIGPEGPLGQLLRRHRSPSPTRGGQEPRRVRRRVLVQQEEEVVSGSPSGPLRPRPRPPARSLREWLLRIRDHFEPPTVTTQRQSVYIEEEEDED |
| 7028 | sp|Q9FJJ5|EB1B\_ARATH | MATNIGMMDSAYFVGRNEILSWINDRLHLNLSRIEEAASGAVQCQMLDMTFPGVVPMHKVNFEAKNEYEMIQNYKVMQEVFTKLKITKPLEVNRLVKGRPLDNLEFLQWLKRFCDSINGGIMNENYNPVERRSRGGREKSVKGSSKISKSLQTNNMHHPPVATSNKPAGPKQAKSHGIGGGSNSSAEVQALSKEVEDLKVSVDLLEKERDFYFSKLRDIEILCQTPELDDLPIVVAVKKILYATDANESVLEEAQECLNQSLGLEGYEEEGKEEEEEEEEEEEEAAAAAETQT |
| 7029 | sp|O00148|DX39A\_HUMAN | MAEQDVENDLLDYDEEEEPQAPQESTPAPPKKDIKGSYVSIHSSGFRDFLLKPELLRAIVDCGFEHPSEVQHECIPQAILGMDVLCQAKSGMGKTAVFVLATLQQIEPVNGQVTVLVMCHTRELAFQISKEYERFSKYMPSVKVSVFFGGLSIKKDEEVLKKNCPHVVVGTPGRILALVRNRSFSLKNVKHFVLDECDKMLEQLDMRRDVQEIFRLTPHEKQCMMFSATLSKDIRPVCRKFMQDPMEVFVDDETKLTLHGLQQYYVKLKDSEKNRKLFDLLDVLEFNQVIIFVKSVQRCMALAQLLVEQNFPAIAIHRGMAQEERLSRYQQFKDFQRRILVATNLFGRGMDIERVNIVFNYDMPEDSDTYLHRVARAGRFGTKGLAITFVSDENDAKILNDVQDRFEVNVAELPEEIDISTYIEQSR |
| 7030 | sp|P39276|DTPC\_ECOLI | MKTPSQPRAIYYIVAIQIWEYFSFYGMRALLILYLTHQLGFDDNHAISLFSAYASLVYVTPILGGWLADRLLGNRTAVIAGALLMTLGHVVLGIDTNSTFSLYLALAIIICGYGLFKSNISCLLGELYDENDHRRDGGFSLLYAAGNIGSIAAPIACGLAAQWYGWHVGFALAGGGMFIGLLIFLSGHRHFQSTRSMDKKALTSVKFALPVWSWLVVMLCLAPVFFTLLLENDWSGYLLAIVCLIAAQIIARMMIKFPEHRRALWQIVLLMFVGTLFWVLAQQGGSTISLFIDRFVNRQAFNIEVPTALFQSVNAIAVMLAGVVLAWLASPESRGNSTLRVWLKFAFGLLLMACGFMLLAFDARHAAADGQASMGVMISGLALMGFAELFIDPVAIAQITRLKMSGVLTGIYMLATGAVANWLAGVVAQQTTESQISGMAIAAYQRFFSQMGEWTLACVAIIVVLAFATRFLFSTPTNMIQESND |
| 7031 | sp|P32497|EIF3C\_YEAST | MSRFFSSNYEYDVASSSSEEDLLSSSEEDLLSSSSSESELDQESDDSFFNESESESEADVDSDDSDAKPYGPDWFKKSEFRKQGGGSNKFLKSSNYDSSDEESDEEDGKKVVKSAKEKLLDEMQDVYNKISQAENSDDWLTISNEFDLISRLLVRAQQQNWGTPNIFIKVVAQVEDAVNNTQQADLKNKAVARAYNTTKQRVKKVSRENEDSMAKFRNDPESFDKEPTADLDISANGFTISSSQGNDQAVQEDFFTRLQTIIDSRGKKTVNQQSLISTLEELLTVAEKPYEFIMAYLTLIPSRFDASANLSYQPIDQWKSSFNDISKLLSILDQTIDTYQVNEFADPIDFIEDEPKEDSDGVKRILGSIFSFVERLDDEFMKSLLNIDPHSSDYLIRLRDEQSIYNLILRTQLYFEATLKDEHDLERALTRPFVKRLDHIYYKSENLIKIMETAAWNIIPAQFKSKFTSKDQLDSADYVDNLIDGLSTILSKQNNIAVQKRAILYNIYYTALNKDFQTAKDMLLTSQVQTNINQFDSSLQILFNRVVVQLGLSAFKLCLIEECHQILNDLLSSSHLREILGQQSLHRISLNSSNNASADERARQCLPYHQHINLDLIDVVFLTCSLLIEIPRMTAFYSGIKVKRIPYSPKSIRRSLEHYDKLSFQGPPETLRDYVLFAAKSMQKGNWRDSVKYLREIKSWALLPNMETVLNSLTERVQVESLKTYFFSFKRFYSSFSVAKLAELFDLPENKVVEVLQSVIAELEIPAKLNDEKTIFVVEKGDEITKLEEAMVKLNKEYKIAKERLNPPSNRR |
| 7032 | sp|Q8HZK2|DUOX2\_PIG | MLCIRPEALVLLGALLTVPLDPVGGQDALSLTWEVQRYDGWFNNLRQHEHGAAGSPLRRLVPANYADGVYQALGEPLLPNPRQLSHTTMRGPAGLRSIRNRTVLGVFFGYHVLSDLVSIEKPGCPAEFLNIHIPPGDPVFDPHKSGDVVLPFQRSRWDPNTGQSPSNPRDLTNEVTGWLDGSAIYGSSHSWSDELRSFSGGQLASGPDPAFPRQAQDPLFMWTPPDPATGQRGPQGLYAFGAEQGNREPFLQALGLLWFRYHNLCAQKLAREHPLWGDEELFQHARKRVIATYQSITMYEWLPSFLQQTPPNYTEYRPFLDPSISPEFLAASEQFFSTMVPPGVYMRNASCHFQMVLNESYGSFPALRVCNSYWIRENPNLNSAEAVNQLLLGMASQISELEDWIVVEDLRDYWPGPGKFSRTDYVASSIQRGRDMGLPSYTQALQALGLNTPKNWSDFNPNVDPQVLEATAALYNQDLSRLELFSGGLLESYGDPGPLFSTIVLDQFVRLRDGDRYWFENTKNGLFSKEEIAEIRSTTLRDVLVAVTNVSSSALQPNVFIWNEDSPCPQPQQLTTEDLPHCVPLTVIQYFEGSGPGFGITIVALCCLPLMSLLISGVVAYFRSRERKKLQKRGKESVKKEADKDGVSAMEWPGPKERSYPVSIQLLPDRHLQVLDRHLSVLRTIQLRPRHRVNLILSNNLGRRTLLLKIPKEYDLVLLFNSEDERGAFVQHLQGFCASCALGLDIDEMGESELFRKAVTKQQRGRILEIFFRHLFAQVLDIDQADAGALPLDSSQKVREALTCELSRAEFAESLGLKPQDMFVESMFSLADKDGNGYLSFREFLDVLVVFMKGSPEDKSRLMFTMYDLDGNGFLSKDEFFTMIRSFIEISNNCLSKAQLTEVVESMFREAGFQDKQELTWEDFHFMLRDHDSELRHTQLCVKGGGGGVGVIFKPDISSRVSFIIRTPEERSSPQGVRLPASEASELGGPVLKKRFGKKAVVPPPRLYTEALQEKKQRGFLAQKLQQYKRFVENYRRHIVCVAIFSAICAGLFVERAYYYAFVSPPSGIAETTFVGIILSRGTAASVSFMFSYILLTMCRNLITFLRETFLNHYVPFDAAVDFHRWIAMAALVLAILHSVGHVVNVYIFSVSPLSLLACVFPSVFVNDGSKLPQKFYWWFFQTIPGMTGVLLLVVLAIMYVFASPYFRRRSFRGFWLTHHFYILLYVLLIIHGSFALIQLPRFHIFFLVPALIYVGDKLVSLSRKKVEISVVKAELLPSGVTHLQFQRPQGFEYKSGQWVRIACLGLGTNEYHPFTLTSAPHEDTLSLHIRAVGPWTTRLREIYSHPMGDGYARYPKLYLDGPFGEGHQEWHKFEVSVLVGGGIGVTPFASILKDLVFKSSLGSQMLCKKIYFIWVTRTQRQFEWLADIIREVEENDHRDLVSVHIYITQLAEKFDLRTTMLYICERHFQKVLNRSLFTGLRSITHFGRPPFEPFFNSLQEVHPQVRKIGVFSCGPPGMTKNVEKTCQLINRQDQTHFVHHYENF |
| 7033 | sp|O73875|EPB4A\_DANRE | MELFSRNVAAFWIILLEFLLGSVAEEEVLMNTKTETSDLKWTTHSRSKPEWEEVSGLDEENNSVRTYQICQADGSSSHWLRSKLIERRGASQVYVELFFTMVECSSRNTHHRSCKETFNLYYYQSDTDDATATHPAWMENPYTKVDTVAADFLLRKGGEKKVNVKTLRLGPLSKRGFYLAFQAQGACMALLSVRVFFKKCPALTRSLSVFPETVPRSLVQEAVGQCVANAAQPGPSPRPPKMFCGEDGQWVDQPTTTCTCLPGFEASHGELECRACPVGLFKMGSGTGPCSVCPENSQTGETGSAACVCRSGFYRALSDSADTPCTRPPSSPRSPVPQVNDTSLTLEWSEPLDSGGRSDLSYSVECRMCSTPGSPCTLCSDGVNYRPSQTGIQGRRVSIWGLRPHTTYSFTVMALNGVSAQSQQGPAGETINITTSPNVPVLVSGLRKSTATESSLTLYWNTPTQSHYRILQYQIRYCEKERGSEENSCHYMESNNNEVVLSDLRRATQYEVQVRARTFAGYGSFGKAILFRTLPDEDDSSSPLLVTGILIAMGMLLLIIVIGAAIYCIRKQNNYKDPELSDKNGQYLMGQGVKVYIDPFTYEDPNEAVREFAKEIDVSCVKIEEVIGAGEFGEVCRGRLRIPGKKENYVAIKTLKGGYTDKQRRDFLAEASIMGQFQHPNIIHLEGIITASCPVMILTEFMENGALDSFLRLNDGQFTPIQLVGMLRGIASGMKYLSEMSYVHRDLAARNILVNSNLVCKVSDFGLSRFLQENSSDPTYTSSLGGKIPIRWTAPEAIAFRKFTCASDVWSYGIVMWEVMSFGERPYWDMSNQDVINAIEQDYRLPPPPDCPTYLHQLMLDCWQKERTARPRFANIVSALDKLIRNPASLKITAQEGAGPSHPLLDQRSPLTPSSCGTVGDWLRAIKMERYEETFLQAGYTSMQLVTHINTEDLLRLGITLAGHQKKILSSIEALGIQNKAPGNVLY |
| 7034 | sp|Q2TDY4|ECTD\_VIRSA | MEDLYPSRQNNQPKILKRKDPVIYTDRSKDNQAPITKEQLDSYEKNGFLQIKNFFSEDEVIDMQKAIFELQDSIKDVASDKVIREPESNDIRSIFHVHQDDNYFQDVANDKRILDIVRHLLGSDVYVHQSRINYKPGFKGKEFDWHSDFETWHVEDGMPRMRAISVSIALSDNYSFNGPLMLIPGSHNYFVSCVGETPDNNYKESLKKQKLGVPDEESLRELTRIGGGISVPTGKAGSVTLFESNTMHGSTSNITPYPRNNLFMVYNSVKNRLVEPFSGGEKRPEYIAVREKQPVYSAVN |
| 7035 | sp|Q15125|EBP\_HUMAN | MTTNAGPLHPYWPQHLRLDNFVPNDRPTWHILAGLFSVTGVLVVTTWLLSGRAAVVPLGTWRRLSLCWFAVCGFIHLVIEGWFVLYYEDLLGDQAFLSQLWKEYAKGDSRYILGDNFTVCMETITACLWGPLSLWVVIAFLRQHPLRFILQLVVSVGQIYGDVLYFLTEHRDGFQHGELGHPLYFWFYFVFMNALWLVLPGVLVLDAVKHLTHAQSTLDAKATKAKSKKN |
| 7036 | sp|Q9UHY7|ENOPH\_HUMAN | MVVLSVPAEVTVILLDIEGTTTPIAFVKDILFPYIEENVKEYLQTHWEEEECQQDVSLLRKQAEEDAHLDGAVPIPAASGNGVDDLQQMIQAVVDNVCWQMSLDRKTTALKQLQGHMWRAAFTAGRMKAEFFADVVPAVRKWREAGMKVYIYSSGSVEAQKLLFGHSTEGDILELVDGHFDTKIGHKVESESYRKIADSIGCSTNNILFLTDVTREASAAEEADVHVAVVVRPGNAGLTDDEKTYYSLITSFSELYLPSST |
| 7037 | sp|Q86XF0|DYR2\_HUMAN | MFLLLNCIVAVSQNMGIGKNGDLPRPPLRNEFRYFQRMTTTSSVEGKQNLVIMGRKTWFSIPEKNRPLKDRINLVLSRELKEPPQGAHFLARSLDDALKLTERPELANKVDMIWIVGGSSVYKEAMNHLGHLKLFVTRIMQDFESDTFFSEIDLEKYKLLPEYPGVLSDVQEGKHIKYKFEVCEKDD |
| 7038 | sp|O73874|EFNB2\_DANRE | MGDSLWRYYFGVLVIACKVNLSRALILDSIYWNTTNTKFVPGQGLVLYPQIGDKMDIVCPRVEGGSMEGVEYYKLYMVPLEQLKSCQVTKADTPLLNCVKPDQDVKFTLKFQEFSPNLWGLEFFRGKDYYIISTSNGTMEGLDNQEGGVCKTKSMKIIMKVGQNPSDPISPKDYPTSYPPKHPDLGGKDSKSNEVLKPDASPHGEDKGDGNKSSSVIGSEVALFACIASASVIVIIIIIMLVFLLLKYRRRHRKHSPQHATTLSLSTLATPKRGGSGGNNNGSEPSDIIIPLRTADSVFCPHYEKVSGDYGHPVYIVQEMPPQSPANIYYKV |
| 7039 | sp|P41971|ELK3\_MOUSE | MESAITLWQFLLHLLLDQKHEHLICWTSNDGEFKLLKAEEVAKLWGLRKNKTNMNYDKLSRALRYYYDKNIIKKVIGQKFVYKFVSFPDILKMDPHAVEISRESLLLQDGDCKVSPEGREVHRHGLSSLKSASRNEYLHSGLYSSFTINSLQNAPEAFKAIKTEKLEEPCDDSPPVEEVRTVIRFVTNKTDKHITRPVVSLPSTSETAAAAASAFLASSVSAKISSLMLPNAASISSASPSSSRSPSLSPDSPLPSEHRSLFLEAACHDSDSLEPLNLSSGSKTKSPSLPPKGKKPKGLEISAPQLLLSGTDIGSIALNSPALPSGSLTPAFFTAQTPSGLFLASSPLLPSIHFWSSLSPVAPLSPARLQGPNTLFQFPTLLNGHMPVPLPSLDRAPSPVLLSPSSQKS |
| 7040 | sp|P50465|END8\_ECOLI | MPEGPEIRRAADNLEAAIKGKPLTDVWFAFPQLKPYQSQLIGQHVTHVETRGKALLTHFSNDLTLYSHNQLYGVWRVVDTGEEPQTTRVLRVKLQTADKTILLYSASDIEMLTPEQLTTHPFLQRVGPDVLDPNLTPEVVKERLLSPRFRNRQFAGLLLDQAFLAGLGNYLRVEILWQVGLTGNHKAKDLNAAQLDALAHALLEIPRFSYATRGQVDENKHHGALFRFKVFHRDGEPCERCGSIIEKTTLSSRPFYWCPGCQH |
| 7041 | sp|O08543|EFNA5\_MOUSE | MLHVEMLTLLFLVLWMCVFSQDPGSKVVADRYAVYWNSSNPRFQRGDYHIDVCINDYLDVFCPHYEDSVPEDKTERYVLYMVNFDGYSACDHTSKGFKRWECNRPHSPNGPLKFSEKFQLFTPFSLGFEFRPGREYFYISSAIPDNGRRSCLKLKVFVRPTNSCMKTIGVHDRVFDVNDKVENSLEPADDTVHESAEPSRGENAAQTPRIPSRLLAILLFLLAMLLTL |
| 7042 | sp|Q9C5Z2|EIF3H\_ARATH | MATMARSFLQAISKDEAVAPPLRVVQIEGLAVLKIIKHCKEFSPTLVTGQLLGLDVGSVLEVTNCFPFPVRDDDEEIEADGANYQLEMMRCLREVNVDNNTVGWYQSTVLGSYQTVELIETFMNYQENIKRCVCIIYDPSKADLGVLALKALKLSDSFMELYRGGNFTGEKLREKNFSWMDIFEEIPIKVSNSALVSAFMTELETDTPVSQGDYDRLHSSTTPFLENNMEFLIKCMDDLSMEQQKFQYYYRNLSRQQAQQQAWLQKRRTENMARKSAGEEPLPEEDPSNPIFKAIPEPSRLESFLITNQVSNFCGQINGVAGQNFSRLYLTKALHDN |
| 7043 | sp|P46075|ELM\_ASPFU | MRGLLLAGALALPASVFAHPAHQSYGLNRRTVDLNAFRLKSLAKYVNATETVIEAPSSFAPFKPQSYVEVATQHVKMIAPDATFRVVDDHYVGDNGVAHVHFRQTANGLDIDNADFNVNVGKDGKVFSYGNSFYTGQIPSSAALTKRDFSDPVTALKGTTNTLQLPITVDSASSESTEEKESYVFKGVSGTVSDPKAKLVYFVKDDGTLALAWRVETDIDSNWLLTYIDAKSGEEIHGVVDYVAEADYQVYAWGINDPTEGERTVIKDPWDSVASEFTWISDGSTNYTTSRGNNGIAQSNPSGGSSYLNNYRPSSSSLSFKYPYSVSSSPPSSYIDASIIQLFYTANIYHDLLYTLGFTEKAGNFEYNTNGQGGLGNDYVILNAQDGSGTNNANFATPPDGQPGRMRMYVWTESTPYRDGSFEAGIVIHEYTHGLSNRLTGGPANSNCLNALESGGMGEGWSDFMATAIRLKPGDKRSTDYTMGEWASNRAGGIRQYPYSTSLSTNPLTYTSVNSLNAVHAIGTVWASMLYEVLWNLIDKHGKNDAPKPTLRDGVPTDGKYLAMKLVMDGMALQPCNPNFVQARDAILDADTALTGGENQCEIWTAFAKRGLGAGAKYSSRNRVGSTEVPSGVC |
| 7044 | sp|Q9Y262|EIF3L\_HUMAN | MSYPADDYESEAAYDPYAYPSDYDMHTGDPKQDLAYERQYEQQTYQVIPEVIKNFIQYFHKTVSDLIDQKVYELQASRVSSDVIDQKVYEIQDIYENSWTKLTERFFKNTPWPEAEAIAPQVGNDAVFLILYKELYYRHIYAKVSGGPSLEQRFESYYNYCNLFNYILNADGPAPLELPNQWLWDIIDEFIYQFQSFSQYRCKTAKKSEEEIDFLRSNPKIWNVHSVLNVLHSLVDKSNINRQLEVYTSGGDPESVAGEYGRHSLYKMLGYFSLVGLLRLHSLLGDYYQAIKVLENIELNKKSMYSRVPECQVTTYYYVGFAYLMMRRYQDAIRVFANILLYIQRTKSMFQRTTYKYEMINKQNEQMHALLAIALTMYPMRIDESIHLQLREKYGDKMLRMQKGDPQVYEELFSYSCPKFLSPVVPNYDNVHPNYHKEPFLQQLKVFSDEVQQQAQLSTIRSFLKLYTTMPVAKLAGFLDLTEQEFRIQLLVFKHKMKNLVWTSGISALDGEFQSASEVDFYIDKDMIHIADTKVARRYGDFFIRQIHKFEELNRTLKKMGQRP |
| 7045 | sp|P08246|ELNE\_HUMAN | MTLGRRLACLFLACVLPALLLGGTALASEIVGGRRARPHAWPFMVSLQLRGGHFCGATLIAPNFVMSAAHCVANVNVRAVRVVLGAHNLSRREPTRQVFAVQRIFENGYDPVNLLNDIVILQLNGSATINANVQVAQLPAQGRRLGNGVQCLAMGWGLLGRNRGIASVLQELNVTVVTSLCRRSNVCTLVRGRQAGVCFGDSGSPLVCNGLIHGIASFVRGGCASGLYPDAFAPVAQFVNWIDSIIQRSEDNPCPHPRDPDPASRTH |
| 7046 | sp|P19551|ENV\_HV1MF | MRVKEKYQHLWRWGWKWGIMLLGILMICSATENLWVTVYYGVPVWKEATTTLFCASDAKAYDTEVHNVCATHACVPTDPNPQEVILVNVTENFDMWKNDMVEQMHEDIISLWDQSLKPCVKLTPLCVNLKCTDLKNDTNTNSSNGRMIMEKGEIKNCSFNISTSIRNKVQKEYAFFYKLDIRPIDNTTYRLISCNTSVITQACPKVSFEPIPIHYCAPAGFAILKCNDKTFNGTGPCTNVSTVQCTHGIRPVVSTQLLLNGSLAEEEGVIRSANFTDNAKTIIVQLNTSVEINCTRPNNNTRKSIRIQRGPGRAFVTIGKIGNMRQAHCNISRAKWMSTLKQIASKLREQFGNNKTVIFKQSSGGDPEIVTHSFNCGGEFFYCNSTQLFNSTWFNSTWSTEGSNNTEGSDTITLPCRIKQFINMWQEVGKAMYAPPISGQIRCSSNITGLLLTRDGGKNTNESEVFRPGGGDMRDNWRSELYKYKVVKIETLGVAPTKAKRRVVQREKRAVGIGALFLGFLGAAGSTMGAASMTLTVQARQLLSGIVQQQNNLLRAIEAQQHLLQLTVWGIKQLQARILAVERYLKDQQLLGIWGCSGKLICTTAVPWNASWSNKSLEQFWNNMTWMEWDREINNYTSLIHSLIDESQNQQEKNEQELLELDKWASLWNWFNITNWLWYIKIFIMIVGGLVGLRIVFAVLSIVNRVRQGYSPLSFQTHLPNRGGPDRPEGIEEEGGERDRDRSVRLVNGSLALIWDDLRSLCLFSYHRLRDLLLIVTRIVELLGRRGWEALKYWWNLLQYWSQELKNSAVSLLNATAIAVAEGTDRVIEVVQGAYRAIRHIPRRIRQGLERIL |
| 7047 | sp|Q9UI10|EI2BD\_HUMAN | MAAVAVAVREDSGSGMKAELPPGPGAVGREMTKEEKLQLRKEKKQQKKKRKEEKGAEPETGSAVSAAQCQVGPTRELPESGIQLGTPREKVPAGRSKAELRAERRAKQEAERALKQARKGEQGGPPPKASPSTAGETPSGVKRLPEYPQVDDLLLRRLVKKPERQQVPTRKDYGSKVSLFSHLPQYSRQNSLTQFMSIPSSVIHPAMVRLGLQYSQGLVSGSNARCIALLRALQQVIQDYTTPPNEELSRDLVNKLKPYMSFLTQCRPLSASMHNAIKFLNKEITSVGSSKREEEAKSELRAAIDRYVQEKIVLAAQAISRFAYQKISNGDVILVYGCSSLVSRILQEAWTEGRRFRVVVVDSRPWLEGRHTLRSLVHAGVPASYLLIPAASYVLPEVSKVLLGAHALLANGSVMSRVGTAQLALVARAHNVPVLVCCETYKFCERVQTDAFVSNELDDPDDLQCKRGEHVALANWQNHASLRLLNLVYDVTPPELVDLVITELGMIPCSSVPVVLRVKSSDQ |
| 7048 | sp|Q58FA4|E2F8\_MOUSE | MENQKENLFSEPHKRGLMKSPLHPSSKANMVLAEIQPDLGPLTTPTKPKEVSQGEPWTPTANLKMLISAVSPEIRSRDQKRGLSDNRSALPEARDCLHEHLSGDEFEKSQPSRKEKSLGLLCHKFLARYPKYPNPAVNNDICLDEVAEELNVERRRIYDIVNVLESLHMVSRLAKNRYTWHGRHNLTKTLGTLKSVGEENKYAEQIMMIKRKEYEQEFDFIKSCGIEDHVIKSHTGQNGHSDMCFVELPGVEFRAASVNSRKDKSLRVMSQKFVMLFLVSTPQIVSLEIAAKILIGEDHVEDLDKSKYKTKIRRLYDIANVLSSLDLIKKVHVTEERGRKPAFKWTGPEISPNNSGSSPIMPLPASLEAEQSAKENCAKNLFSTRGKPSFTRHPSLIKLVKSIENDRRKISSAPSSPVKSNKAESSQNSPPVPNKMAQLAAICKMQLEEQSSEPRKKVKVNLARSGHYKPLAPLDPTVNTELELLTPSLIQPLGVVPLIPSPLSSAVPVILPQAPSGPSYAIYLQPAQAQMLTPPPGLSPTVCPTQPSNATGSKDPTDAPAEKTATDAATTGSLQPAPERHGAKHRSKETTGDRGTKRMITAEDSGPSSVKKPKEDLKALENVPTPTPLFPSGYLIPLTQCSSLGPDSVLSNTENSGTPSPNHRIYGSPIAGVIPVASSELTAVNFPPFHVTPLKLMVSPTSMAAVPVGNSPALNSGHPAPAQNPSSAIVNFTLQHLGLISPGVQMSASPGPGAGTVPVSPRVEADNLSSRQRRATNHDSPVLGQSQLNGQPVAGTGAQQPVPVTPKGSQLVAENFFRTPGGPTKPTSSPYTDFDGANKTSFGTLFVPQRKLEVSTEDIH |
| 7049 | sp|P23064|ENV\_HTL1M | MGKFLATLILFFQFCPLILGDYSPSCCTLTIGVSSYHSKPCNPAQPVCSWTLDLLALSADQALQPPCPNLVSYSSYHATYSLYLFPHWIKKPNRNGGGYYSASYSDPCSLKCPYLGCQSWTCPYTGAVSSPYWKFQQDVNFTQEVSRLNINLHFSKCGFPFSLLVDAPGYDPIWFLNTEPSQLPPTAPPLLPHSNLDHILEPSIPWKSKLLTLVQLTLQSTNYTCIVCIDRASLSTWHVLYSPNVSVPSSSSTPLLYPSLALPAPHLTLPFNWTHCFDPQIQAIVSSPCHNSLILPPFSLSPVPTLGSRSRRAVPVAVWLVSALAMGAGVAGGITGSMSLASGKSLLHEVDKDISQLTQAIVKNHKNLLKIAQYAAQNRRGLDLLFWEQGGLCKALQEQCCFLNITNSHVSILQERPPLENRVLTGWGLNWDLGLSQWAREALQTGITLVALLLLVILAGPCILRQLRHLPSRVRYPHYSLINPESSL |
| 7050 | sp|Q12050|ELG1\_YEAST | MKRHVSLSDILTGNKRKVRRQDALQITIDDENDTESGTFDARTAKHDDSSVIFLNHSVVKPIEAVSTNHKSAKEFLMTKRTKEKCDDDDDDLIVISDKSPKSETNCSKIALSQEHEDDISIISTSRIKSSLLNERASKIKNFLKHETTDTFKRLNSISKLNEIEPPLPLHQSIFPVGDKELSDRSVDIPLPFRTIPPLNHNFLPSDYESLKDKNSASCIPVRYQAPVLLGTNIKRNTTLTWPQLFKPVTLKQVLIEPKLKLRIKNWIETSFHTLEKPTLRNRLLNRINPNKQQGSGDELANFIVPDLEEDENLRPDFYRNGEANSSLSEFVPLMILHGNSIGKKTLIQTIMREIAGDDNSYQIYEVNSNMNRSKKDLLDILLDFTTTHYVKDSSKRKSDYGLVLFNDVDVLFKEHDRGYWAMISKLCEFSRRPLVLTCKDLSLVPSELIALASEQNSLFHTKKISTSTVYAFLTKYLKSLEIEVCDDWLRDVVKQNNADIRKCLMHLQFWCVDTEADLISSKNRLPVLTSTLGSSVKDISQLTDLLSINDVIGQATLNRSMVRQEIDSTTMTPEKVNTFQDQNLDDEMKLKFDYVIDYKLHLNDPNRQPLLPFELNIYQHIQEQLEARYSYVREANHRLDNEYLVNRFKKMTESTLNFLASRIPKYDHLQSARRTRNSKKISDILNQFKGIYNDETLNENAEIDLLSATTQQIKAEINPFVFEIAKSDANVKNENKQIFELHSENVSERRYKDLVYQLSQEGVLKNVWFNADPSIVVRKWEHLHSGFSKNK |
| 7051 | sp|P05877|ENV\_HV1MN | MRVKGIRRNYQHWWGWGTMLLGLLMICSATEKLWVTVYYGVPVWKEATTTLFCASDAKAYDTEVHNVWATQACVPTDPNPQEVELVNVTENFNMWKNNMVEQMHEDIISLWDQSLKPCVKLTPLCVTLNCTDLRNTTNTNNSTANNNSNSEGTIKGGEMKNCSFNITTSIRDKMQKEYALLYKLDIVSIDNDSTSYRLISCNTSVITQACPKISFEPIPIHYCAPAGFAILKCNDKKFSGKGSCKNVSTVQCTHGIRPVVSTQLLLNGSLAEEEVVIRSENFTDNAKTIIVHLNESVQINCTRPNYNKRKRIHIGPGRAFYTTKNIIGTIRQAHCNISRAKWNDTLRQIVSKLKEQFKNKTIVFNQSSGGDPEIVMHSFNCGGEFFYCNTSPLFNSTWNGNNTWNNTTGSNNNITLQCKIKQIINMWQEVGKAMYAPPIEGQIRCSSNITGLLLTRDGGKDTDTNDTEIFRPGGGDMRDNWRSELYKYKVVTIEPLGVAPTKAKRRVVQREKRAAIGALFLGFLGAAGSTMGAASVTLTVQARLLLSGIVQQQNNLLRAIEAQQHMLQLTVWGIKQLQARVLAVERYLKDQQLLGFWGCSGKLICTTTVPWNASWSNKSLDDIWNNMTWMQWEREIDNYTSLIYSLLEKSQTQQEKNEQELLELDKWASLWNWFDITNWLWYIKIFIMIVGGLVGLRIVFAVLSIVNRVRQGYSPLSLQTRPPVPRGPDRPEGIEEEGGERDRDTSGRLVHGFLAIIWVDLRSLFLFSYHHRDLLLIAARIVELLGRRGWEVLKYWWNLLQYWSQELKSSAVSLLNATAIAVAEGTDRVIEVLQRAGRAILHIPTRIRQGLERALL |
| 7052 | sp|P35961|ENV\_HV1Y2 | MRATEIRKNYQHLWKGGTLLLGMLMICSAAEQLWVTVYYGVPVWKEATTTLFCASDAKAYDTEVHNVWATHACVPTDPNPQEVKLENVTENFNMWKNNMVEQMHEDIISLWDQSLKPCVKLTPLCVTLNCTDLRNATNTTSSSWETMEKGEIKNCSFNITTSIRDKVQKEYALFYNLDVVPIDNASYRLISCNTSVITQACPKVSFEPIPIHYCAPAGFAILKCNDKKFNGTGPCTNVSTVQCTHGIRPVVSTQLLLNGSLAEEEIVIRSENFTNNAKTIIVQLNESVVINCTRPNNNTRKSINIGPGRALYTTGEIIGDIRQAHCNLSKTQWENTLEQIAIKLKEQFGNNKTIIFNPSSGGDPEIVTHSFNCGGEFFYCNSTQLFTWNDTRKLNNTGRNITLPCRIKQIINMWQEVGKAMYAPPIRGQIRCSSNITGLLLTRDGGKDTNGTEIFRPGGGDMRDNWRSELYKYKVVKIEPLGVAPTKAKRRVVQREKRAVGLGALFLGFLGAAGSTMGAASITLTVQARQLLSGIVQQQNNLLRAIEAQQHLLQLTVWGIKQLQARVLAVERYLRDQQLLGIWGCSGKLICTTTVPWNTSWSNKSLNEIWDNMTWMKWEREIDNYTHIIYSLIEQSQNQQEKNEQELLALDKWASLWNWFDITKWLWYIKIFIMIVGGLIGLRIVFVVLSIVNRVRQGYSPLSFQTHLPAQRGPDRPDGIEEEGGERDRDRSGPLVDGFLAIIWVDLRSLCLFSYHRLRDLLLIVTRIVELLGRRGWGVLKYWWNLLQYWIQELKNSAVSLLNATAIAVAEGTDRVIEILQRAFRAVLHIPVRIRQGLERALL |
| 7053 | sp|Q02884|ELP4\_YEAST | MSFRKRGEILNDRGSGLRGPLLRGPPRTSSTPLRTGNRRAPGNVPLSDTTARLKKLNIADESKTKMGLDSSHVGVRPSPATSQPTTSTGSADLDSILGHMGLPLGNSVLVEEQSTTEFHSILGKLFAAQGIVHNRISDSSADKTRNGDTHVIVLSLNQMFAKELPGIYKGSRKQMKKNLISEEESKVTVQNLNETQRSTPSRYKDLKIAWKYKLADEKRLGSPDRDDIQQNSEYKDYNHQFDITTRLMPAPIASELTFIAPTQPVSTILSQIEQTIKRNDKKLIRIVIPSLLHPAMYPPKMFESSEIIGLMHGVRSLVKKYYERVVLFASISIDIITPPLLVLLRNMFDSVINLEPFNQEMTEFLERVYKSQPGKIQHGLVHILKLPVFTDRGEMRVLKSEWAFKNGRKKFEIEQWGIPVDDAEGSAASEQSHSHSHSDEISHNIPAKKTKISLDY |
| 7054 | sp|P12492|ENV\_SIVS4 | MGCLGNQLLIALLLVSVLEICCVQYVTVFYGVPAWKNATIPLFCATKNRDTWGTTQCLPDNDDYSELAINVTEAFDAWDNTVTEQAIEDVWNLFETSIKPCVKLTPLCIAMRCNKTETDRWGLTGNAGTTTTAITTTATPSVAENVINESNPCIKNNSCAGLEQEPMIGCKFNMTGLNRDKKKEYNETWYSRDLICEQSANESESKCYMHHCNTSVIQESCDKHYWDAIRFRYCAPPGYALLRCNDSNYLGFAPNCSKVVVSSCTRMMETQTSTWFGFNGTRAENRTYIYWHGKSNRTIISLNKYYNLTMRCRRPENKTVLPVTIMSGLVFHSQPINERPKQAWCWFEGSWKKAIQEVKETLVKHPRYTGTNDTRKINLTAPAGGDPEVTFMWTNCRGEFLYCKMNWFLNWVEDRDQKGGRWKQQNRKEQQKKNYVPCHIRQIINTWHKVGKNVYLPPREGDLTCNSTVTSLIAEIDWINSNETNITMSAEVAELYRLELGDYKLIEITPIGLAPTSVRRYTTTGASRNKRGVFVLGFLGFLATAGSAMGAASVTLSAQSRTLLAGIVQQQQQLLDVVKRQQELLRLTVWGTKNLQTRVTAIEKYLKDQAQLNSWGCAFRQVCHTTVPWPNETLVPNWNNMTWQEWERQVDFLEANITQLLEEAQIQQEKNMYELQKLNSWDIFGNWFDLTSWIRYIQYGVLIVLGVIGLRIVIYVVQMLARLRQGYRPVFSSPPAYVQQIPIHKGQEPPTKEGEEGDGGDRGGSRSWPWQIEYIHFLIRQLIRLLTWLFSSCRDWLLRSYQILQPVLQSLSTTLQRVREVIRIEIAYLQYGWRYFQEAVQAWWKLARETLASAWGDIWETLGRVGRGILAIPRRIRQGLELTLL |
| 7055 | sp|Q5XD01|ENO\_STRP6 | MSIITDVYAREVLDSRGNPTLEVEVYTESGAFGRGMVPSGASTGEHEAVELRDGDKSRYLGLGTQKAVDNVNNIIAKAIIGYDVRDQQAIDRAMIALDGTPNKGKLGANAILGVSIAVARAAADYLEVPLYTYLGGFNTKVLPTPMMNIINGGSHSDAPIAFQEFMIMPVGAPTFKEGLRWGAEVFHALKKILKERGLVTAVGDEGGFAPKFEGTEDGVETILKAIEAAGYEAGENGIMIGFDCASSEFYDKERKVYDYTKFEGEGAAVRTSAEQVDYLEELVNKYPIITIEDGMDENDWDGWKVLTERLGKRVQLVGDDFFVTNTEYLARGIKENAANSILIKVNQIGTLTETFEAIEMAKEAGYTAVVSHRSGETEDSTIADIAVATNAGQIKTGSLSRTDRIAKYNQLLRIEDQLGEVAQYKGIKSFYNLKK |
| 7056 | sp|P08810|ENV\_SIVM2 | MGCLGNQLLIAILLLSVYGIYCTQYVTVFYGVPAWRNATIPLFCATKNRDTWGTTQCLPDNGDYSELALNVTESFDAWENTVTEQAIEDVWQLFETSIKPCVKLSPLCITMRCNKSETDRWGLTKSSTTITTAAPTSAPVSEKIDMVNETSSCIAQNNCTGLEQEQMISCKFTMTGLKRDKTKEYNETWYSTDLVCEQGNSTDNESRCYMNHCNTSVIQESCDKHYWDTIRFRYCAPPGYALLRCNDTNYSGFMPKCSKVVVSSCTRMMETQTSTWFGFNGTRAENRTYIYWHGRDNRTIISLNKYYNLTMKCRRPGNKTVLPVTIMSGLVFHSQPINDRPKQAWCWFGGKWKDAIKEVKQTIVKHPRYTGTNNTDKINLTAPGGGDPEVTFMWTNCRGEFLYCKMNWFLNWVEDRDVTTQRPKERHRRNYVPCHIRQIINTWHKVGKNVYLPPREGDLTCNSTVTSLIANIDWTDGNQTSITMSAEVAELYRLELGDYKLVEITPIGLAPTDVKRYTTGGTSRNKRGVFVLGFLGFLATAGSAMGAASLTLTAQSRTLLAGIVQQQQQLLDVVKRQQELLRLTVWGTKNLQTRVTAIEKYLKDQAQLNAWGCAFRQVCHTTVPWPNASLTPDWNNDTWQEWERKVDFLEENITALLEEAQIQQEKNMYELQKLNSWDVFGNWFDLASWIKYIQYGIYVVVGVILLRIVIYIVQMLAKLRQGYRPVFSSPPSYFQXTHTQQDPALPTREGKEGDGGEGGGNSSWPWQIEYIHFLIRQLIRLLTWLFSNCRTLLSRAYQILQPILQRLSATLRRVREVLRTELTYLQYGWSYFHEAVQAGWRSATETLAGAWRDLWETLRRGGRWILAIPRRIRQGLELTLL |
| 7057 | sp|Q5BKW7|ENPP6\_DANRE | MTRTLLKIYTLFILLLCRQRDANRKLLVFLIDGFRHDYMDDLHNLPGFREIVENGVKVDYLTPDFPSLSYPNYYSLMTGRHCEVHQMTGNYMWDTDTQKEFLIGTNPDSRLPMWWDGSEPLWVTMQKLGKKVYMYYWPGCEVTILGVRPTFCEEYVYNPSEKNLTDSMENALNALKSSKADMAGIYYEKIDVEGHHFGPRSPEIQRAIRSLDQAFQILNQKIREKNMRDTINVVLFSDHGMTQLKWMEKIIELDNYINMSHIIKMMDRGPVVSLWPKQDKFEEIYQNLSTADNMNVYKKHEIPDRFHYKNGQFVSTLTLVAEPGWFITENKAKLPFWNNGTEAAGGWQHGWHGYDNEFVDMRGSFLAQGPDFKSNYRAGPIRTVDVYNVLCKTLGMNPLPNNGSWSRVECMMRSSAATAGASLISCCFLLLLTLTGVC |
| 7058 | sp|P55772|ENTP1\_MOUSE | MEDIKDSKVKRFCSKNILIILGFTSILAVIALIAVGLTQNKPLPENVKYGIVLDAGSSHTNLYIYKWPAEKENDTGVVQQLEECQVKGPGISKYAQKTDEIGAYLAECMELSTELIPTSKHHQTPVYLGATAGMRLLRMESEQSADEVLAAVSTSLKSYPFDFQGAKIITGQEEGAYGWITINYLLGRFTQEQSWLSLISDSQKQETFGALDLGGASTQITFVPQNSTIESPENSLQFRLYGEDYTVYTHSFLCYGKDQALWQKLAKDIQVSSGGVLKDPCFNPGYEKVVNVSELYGTPCTKRFEKKLPFDQFRIQGTGDYEQCHQSILELFNNSHCPYSQCAFNGVFLPPLHGSFGAFSAFYFVMDFFKKVAKNSVISQEKMTEITKNFCSKSWEETKTSYPSVKEKYLSEYCFSGAYILSLLQGYNFTDSSWEQIHFMGKIKDSNAGWTLGYMLNLTNMIPAEQPLSPPLPHSTYIGLMVLFSLLLVAVAITGLFIYSKPSYFWKEAV |
| 7059 | sp|P55245|EGFR\_MACMU | MRPSGTAGAALLALLAALCPASRALEEKKVCQGTSNKLTQLGTFEDHFLSLQRMFNNCEVVLGNLEITYVQRNYDLSFLKTIQEVAGYVLIALNTVERIPLENLQIIRGNMYYENSYALAVLSNYDANKTGLKELPMRNLQEILHGAVRFSNNPALCNVESIQWRDIVSSEFLSNMSMDFQNHLGSCQKCDPSCPNGSCWGAGEENCQKLTKIICAQQCSGRCRGKSPSDCCHNQCAAGCTGPRESDCLVCRKFRDEATCKDTCPPLMLYNPTTYQMDVNPEGKYSFGATCVKKCPRNYVVTDHGSCVRACGADSYEMEEDGVRKCKKCEGPCRKVCNGIGIGEFKDTLSINATNIKHFKNCTSISGDLHILPVAFRGDSFTHTPPLDPQELDILKTVKEITGFLLIQAWPENRTDLHAFENLEIIRGRTKQHGQFSLAVVSLNITSLGLRSLKEISDGDVIISGNKNLCYANTINWKKLFGTSSQKTKIISNRGENSCKATGQVCHALCSPEGCWGPEPRDCVSCQNVSRGRECVDKCNVLEGEPREFVENSECIQCHPECLPQVMNITCTGRGPDNCIQCAHYIDGPHCVKTCPAGVMGENNTLVWKYADAGHVCHLCHPNCTYGCTGPGLEGCARNGPKIPSIATGMVGALLLLLVVALGIGLFMRRRHIVRKRTLRRLLQERELVEPLTPSGEAPNQALLRILKETEFKKIKVLGSGAFGTVYKGLWIPEGEKVKIPVAIKELREATSPKANKEILDEAYVMASVDNPHVCRLLGICLTSTVQLITQLMPFGCLLDYVREHKDNIGSQYLLNWCVQIAKGMNYLEDRRLVHRDLAARNVLVKTPQHVKITDFGLAKLLGAEEKEYHAEGGKVPIKWMALESILHRIYTHQSDVWSYGVTVWELMTFGSKPYDGIPASEISSILEKGERLPQPPICTIDVYMIMVKCWMIDADSRPKFRELIIEFSKMARDPQRYLVIQGDERMHLPSPTDSNFYRALMDEEDMDDVVDADEYLIPQQGFFSSPSTSRTPLLSSLSATSNNSTVACIDRNGLQSCPIKEDSFLQRYSSDPTGALTEDSIDDTFLPVPEYINQSVPKRPAGSVQNPVYHNQPLNPAPSRDPHYQDPHSTAVGNPEYLNTVQPTCVNSTFDSPAHWAQKGSHQISLDNPDYQQDFFPKEAKPNGIFKGSTAENAEYLRVAPQSSEFIGA |
| 7060 | sp|Q03769|ENT5\_YEAST | MDSLSKKIQNLGIHDIRNAARFAQNVIVQYEPYQIDIRRATNTDAWGPTPKHLAKVLRNRYQVPLYLMTEYTLKRLVDHIATRPKNLYEKARKDYVNYGSEWRVVLKCLVVIEFLLLNVDTGDELNQIRSCLLTHKHILTREIAQFKVKFSNDGKMEIHERGIRKKGELILQYLEDSQFLKKERAKNKKNALKIRQQGESSIYNANQISTSASYDNIDDDEFDADADGFDSEMDANNVTNFNVPVETEANSNTRRRSHMEEQRRQRREILREQIKNKEQQRKRKQQQDSIPDLIDLDDSTSTTNNITIDNGNNDNKNNNINSNSDDDDDEFGDFQSETSPDTTAPKTSNSKIDDLLDWDGPKSDTDTTAAAQTSLPFAEKKQQKARPQATKDKSKGNDAFSDLFSYSKSLV |
| 7061 | sp|P01588|EPO\_HUMAN | MGVHECPAWLWLLLSLLSLPLGLPVLGAPPRLICDSRVLERYLLEAKEAENITTGCAEHCSLNENITVPDTKVNFYAWKRMEVGQQAVEVWQGLALLSEAVLRGQALLVNSSQPWEPLQLHVDKAVSGLRSLTTLLRALGAQKEAISPPDAASAAPLRTITADTFRKLFRVYSNFLRGKLKLYTGEACRTGDR |
| 7062 | sp|Q8BGN3|ENPP6\_MOUSE | MAAKLWTFLLGFGLSWVWPASAHRKLLVLLLDGFRSDYISEDALASLPGFREIVNRGVKVDYLTPDFPSLSYPNYYTLMTGRHCEVHQMIGNYMWDPRTNKSFDIGVNRDSLMPLWWNGSEPLWITLMKARRKVYMYYWPGCEVEILGVRPTYCLEYKTVPTDINFANAVSDALDSLKSGRADLAAIYHERIDVEGHHYGPSSPQRKDALRAVDTVLKYMIQWIQDRGLQQDLNVILFSDHGMTDIFWMDKVIELSNYISLDDLQQVKDRGPVVSLWPVPGKHSEIYHKLRTVEHMTVYEKESIPNRFYYKKGKFVSPLTLVADEGWFIAESREMLPFWMNSTGKREGWQRGWHGYDNELMDMRGIFLAIGPDFKSNFRAAPIRSVDVYNIMCHVAGITPLPNNGSWSRVVCMLKGQTSSAPPTPLNSCALVLILLLYFV |
| 7063 | sp|P13689|ABP1\_MAIZE | MAPDLSELAAAAAARGAYLAGVGVAVLLAASFLPVAESSCVRDNSLVRDISQMPQSSYGIEGLSHITVAGALNHGMKEVEVWLQTISPGQRTPIHRHSCEEVFTVLKGKGTLLMGSSSLKYPGQPQEIPFFQNTTFSIPVNDPHQVWNSDEHEDLQVLVIISRPPAKIFLYDDWSMPHTAAVLKFPFVWDEDCFEAAKDEL |
| 7064 | sp|P56653|4HBT\_PSEUC | MARSITMQQRIEFGDCDPAGIVWFPNYHRWLDAASRNYFIKCGLPPWRQTVVERGIVGTPIVSCNASFVCTASYDDVLTIETCIKEWRRKSFVQRHSVSRTTPGGDVQLVMRADEIRVFAMNDGERLRAIEVPADYIELCS |
| 7065 | sp|P53368|8ODP\_MOUSE | MSTSRLYTLVLVLQPQRVLLGMKKRGFGAGRWNGFGGKVQEGETIEDGAKRELLEESGLSVDTLHKVGHISFEFVGSPELMDVHIFSADHVHGTPTESEEMRPQWFQLDQIPFADLWPDDSYWFPLLLQKKKFCGHFKFQDQDTILSYSLREVDSF |
| 7066 | sp|D0NPN8|A3AEM\_PHYIT | MRLAIMLSATAVAINFATSSAIDQTKVLVYGTPAHYIHDSAGRRLLRKNEENEETSEERAPNFNLANLNEEMFNVAALTERADAKKLAKQLMGNDKLADAAYMWWQHNRVTLDQIDTFLKLASRKTQGAKYNQIYNSYMMHLGLTGY |
| 7067 | sp|P21588|5NTD\_RAT | MRPAAATAPKWLLLALSALLPLWPTAKSWELTIMHTNDVHSRLEQTSDDSTKCLNASLCVGGVARLFTKVQQIRKEEPNVLLLDAGDQYQGTIWFTVYKGLEVAHFMNLLGYDAMALGNHEFDNGVEGLIDPLLRNVKFPILSANIKARGPLAPQISGLYLPYKVLSVGGEVVGIVGYTSKETPFLSNPGTNLVFEDEVTALQPEVDKLKTLNVNKIIALGHSGFEMDKLIAQKVRGVDVVVGGHTNTFLYTGNPPSKEVPAGKYPFIVTSDDGRKVPVVQAYAFGKYLGYLKVEFDDKGNVVTSYGNPILLNSTIREDAAIKADINQWRIKLDNYSTQELGRTIVYLNGSAQECRFRECNMGNLICDAMINNNLRHPDEMFWNHVSMCIVNGGGIRSPIDERNNGTITWENLAAVLPFGGTFDLVQLKGSTLKKAFEHSVHRYGQSTGEFLQVGGIHVVYDISRKPWDRVVQLKVLCTKCRVPIYEPLEMDKVYKVVLPSYLVNGGDGFQMIKDELLKHDSGDQDISVVSEYISKMKVIYPAVEGRIKFSAASHYQGSFPLIILSFWAVILVLYQ |
| 7068 | sp|P23542|AATC\_YEAST | MSATLFNNIELLPPDALFGIKQRYGQDQRATKVDLGIGAYRDDNGKPWVLPSVKAAEKLIHNDSSYNHEYLGITGLPSLTSNAAKIIFGTQSDAFQEDRVISVQSLSGTGALHISAKFFSKFFPDKLVYLSKPTWANHMAIFENQGLKTATYPYWANETKSLDLNGFLNAIQKAPEGSIFVLHSCAHNPTGLDPTSEQWVQIVDAIASKNHIALFDTAYQGFATGDLDKDAYAVRLGVEKLSTVSPVFVCQSFAKNAGMYGERVGCFHLALTKQAQNKTIKPAVTSQLAKIIRSEVSNPPAYGAKIVAKLLETPELTEQWHKDMVTMSSRITKMRHALRDHLVKLGTPGNWDHIVNQCGMFSFTGLTPQMVKRLEETHAVYLVASGRASIAGLNQGNVEYVAKAIDEVVRFYTIEAKL |
| 7069 | sp|P63151|2ABA\_HUMAN | MAGAGGGNDIQWCFSQVKGAVDDDVAEADIISTVEFNHSGELLATGDKGGRVVIFQQEQENKIQSHSRGEYNVYSTFQSHEPEFDYLKSLEIEEKINKIRWLPQKNAAQFLLSTNDKTIKLWKISERDKRPEGYNLKEEDGRYRDPTTVTTLRVPVFRPMDLMVEASPRRIFANAHTYHINSISINSDYETYLSADDLRINLWHLEITDRSFNIVDIKPANMEELTEVITAAEFHPNSCNTFVYSSSKGTIRLCDMRASALCDRHSKLFEEPEDPSNRSFFSEIISSISDVKFSHSGRYMMTRDYLSVKIWDLNMENRPVETYQVHEYLRSKLCSLYENDCIFDKFECCWNGSDSVVMTGSYNNFFRMFDRNTKRDITLEASRENNKPRTVLKPRKVCASGKRKKDEISVDSLDFNKKILHTAWHPKENIIAVATTNNLYIFQDKVN |
| 7070 | sp|P43144|ACHA9\_RAT | MNRPHSCLSFCWMYFAASGIRAVETANGKYAQKLFSDLFEDYSSALRPVEDTDAVLNVTLQVTLSQIKDMDERNQILTAYLWIRQTWHDAYLTWDRDQYDRLDSIRIPSDLVWRPDIVLYNKADDESSEPVNTNVVLRYDGLITWDSPAITKSSCVVDVTYFPFDSQQCNLTFGSWTYNGNQVDIFNALDSGDLSDFIEDVEWEVHGMPAVKNVISYGCCSEPYPDVTFTLLLKRRSSFYIVNLLIPCVLISFLAPLSFYLPAASGEKVSLGVTILLAMTVFQLMVAEIMPASENVPLIGKYYIATMALITASTALTIMVMNIHFCGAEARPVPHWAKVVILKYMSRILFVYDVGESCLSPRHSQEPEQVTKVYSKLPESNLKTSRNKDLSRKKEVRKLLKNDLGYQGGIPQNTDSYCARYEALTKNIEYIAKCLKDHKATNSKGSEWKKVAKVIDRFFMWIFFAMVFVMTVLIIARAD |
| 7071 | sp|Q95241|A4\_SAISC | MLPGLALLLLAAWTARALEVPTDGNAGLLAEPQIAMFCGRLNMHMNVQNGKWDSDPSGTKTCIDTKEGILQYCQEVYPELQITNVVEANQPVTIQNWCKRDRKQCKTHPHIVIPYRCLVGEFVSDALLVPDKCKFLHQERMDVCETHLHWHTVAKETCSEKSTNLHDYGMLLPCGIDKFRGVEFVCCPLAEESDHVDSADAEEDDSDVWWGGADTDYADGSEDKVVEVAEEEEVAEVEEEEADDDEDDEDGDEVEEEAEEPYEEATERTTSIATTTTTTTESVEEVVREVCSEQAETGPCRAMISRWYFDVTEGKCAPFFYGGCGGNRNNFDTEEYCMAVCGSVIPTTAASTPDAVDKYLETPGDENEHAHFQKAKERLEAKHRERMSQVMREWEEAERQAKNLPKADKKAVIQHFQEKVESLEQEAANERQQLVETHMARVEAMLNDRRRLALENYITALQAVPPRPRHVFNMLKKYVRAEQKDRQHTLKHFEHVRMVDPKKAAQIRSQVMTHLRVIYERMNQSLSLLYNVPAVAEEIQDEVDELLQKEQNYSDDVLANMISEPRISYGNDALMPSLTETKTTVELLPVNGEFSLDDLQPWHSFGADSVPANTENEVEPVDARPAADRGLTTRPGSGLTNIKTEEISEVKMDAEFRHDSGYEVHHQKLVFFAEDVGSNKGAIIGLMVGGVVIATVIVITLVMLKKKQYTSIHHGVVEVDAAVTPEERHLSKMQQNGYENPTYKFFEQMQN |
| 7072 | sp|Q8R493|ACHB4\_MOUSE | MRGTPLLLVSLFALLQPGDCRLANAEEKLMDDLLNKTRYNNLIRPATSSSQLISIRLELSLSQLISVNEREQIMTTSIWLKQEWTDYRLAWNSSCYEGVNILRIPAKRVWLPDIVLYNNADGTYEVSVYTNVIVRSNGSIQWLPPAIYKSACKIEVKHFPFDQQNCTLKFRSWTYDHTEIDMVLKSPTAIMDDFTPSGEWDIVALPGRRTVNPQDPSYVDVTYDFIIKRKPLFYTINLIIPCVLITSLAILVFYLPSDCGEKMTLCISVLLALTFFLLLISKIVPPTSLDIPLIGKYLLFTMVLVTFSIVTTVCVLNVHHRSPSTHTMASWVKECFLHKLPTFLFMKRPGLEVSPARVPHSSQLHLTTAEATSTSALGPSSPSNLYGNSMYFVNPVPATPKSAVSSHTAGLPRDARLRSSGRFRQDLQEALEGVSFIAQHLESDDRDQSVIEDWKFVAMVVDRLFLWVFVIVCILGTMGLFLPPLFQIHAPSKGL |
| 7073 | sp|Q9R0H0|ACOX1\_MOUSE | MNPDLRKERAAATFNPELITHILDGSPENTRRRREIENLILNDPDFQHEDYNFLTRSQRYEVAVKKSATMVKKMREFGIADPEEIMWFKKLHMVNFVEPVGLNYSMFIPTLLNQGTTAQQEKWMHPSQELQIIGTYAQTEMGHGTHLRGLETTATYDPKTQEFILNSPTVTSIKWWPGGLGKTSNHAIVLAQLITRGECYGLHAFVVPIREIGTHKPLPGITVGDIGPKFGYEEMDNGYLKMDNYRIPRENMLMKYAQVKPDGTYVKPLSNKLTYGTMVFVRSFLVGSAAQSLSKACTIAIRYSAVRRQSEIKRSEPEPQILDFQTQQYKLFPLLATAYAFHFLGRYIKETYMRINESIGQGDLSELPELHALTAGLKAFTTWTANAGIEECRMACGGHGYSHSSGIPNIYVTFTPACTFEGENTVMMLQTARFLMKIYDQVQSGKLVGGMVSYLNDLPSQRIQPQQVAVWPTLVDINSLDSLTEAYKLRAARLVEIAAKNLQAQVSHRKSKEVAWNLTSVDLVRASEAHCHYVTVKVFADKLPKIQDRAVQAVLRNLCLLYSLYGISQKGGDFLEGNIITGAQMSQVNSRILELLTVTRPNAVALVDAFDFKDVTLGSVLGRYDGNVYENLFEWAKKSPLNKTEVHESYYKHLKPLQSKL |
| 7074 | sp|Q9N0V3|ABCBB\_RABIT | MSDSVILRSVKKFGEENHGFESDGSYNNEKKSRLQDKKKSDSVRIGFFQLFRFSSWTDIWLMCMGSLCACIHGIAQPGVLLIFGTMTDVFIDYDTELQELKIPGKACVNNTIVWINSSLNQNVTNGTRCGLLDIESEMIRFAGYYAGIGIAVLTTGYIQICFWGIAAAHQIQKMRKSYFRKIMRMGIGWVDCNSVGKLNTPFSVDFNKINDSSADQLAIFIQGMTSPIFGFLVGFSQWWKLTLVIISVSPLIGLGAAIIGLSVSKFTDYELKAYAKAGSVADEVISSMRTVAAFGGEKKEVERYEKNLVFAQRWGIRKGIVMGFFTGYMWCLIFFCYALAFWYGSKLVLEEGEYSPGALVQIFLSVIIGALNLGNASPCLEAFAAGRAAASSIFETIDRKPIIDCMSEDGYKLERIKGEIEFHNVTFHYPSRPEVKILNNLSMVIKPGEMTALVGPSGAGKSTALQLIHRFYGPTEGMVTVESHDIRSSHIQWLRNQIGIVEQEPVLFFHTIAEKIRYGREDATMEDLIQAAKEANAYNFIMDLPQQFDTLVGEGGGQMSGGQKQRVAIARALIRNPKILLLDMATSALDNESEAMVQEALSKTQHGHTIVSVAHRPATIRTADVIIGCEHGAAVERGTEEELLERKGVYFALVTLQSQRNQGDQEENEKDATEDDIPEKTFSRGNYQDSLRASLRQRSKSQLSYLAHEPPMAVEDHKSTHEEDRKDKDLPAQEDIEPASVRRIMKLNAPEWPYMLLGSMGAAVNGAVTPLYAFLFSQILGTFSLPDKEEQRSQINGICLLFVTLGCVSFFTQFLQGYTFAKSGELLTKRLRKFGFRAMLGQDIGWFDDLRNSPGALTTRLATDASQVQGATGSQIGMMVNSFTNVTVAMIIAFLFSWKLTLGIVCFFPFLALSGALQTKMLTGFASRDKQALEKAGQITSEALSNIRTVAGIGKERKFIETFEAELEKPYKMAIKKANVYGLCFGFSQCITFIANSASYRYGGYLISNEGLHFSYVFRVISAVVLSATALGRASSYTPSYAKAKISAARFFQLLDRQPPINVYSSAGEKWDNFQGKIDFVDCKFTYPSRPDIQVLNGLSVSMSPRQTLAFVGSSGCGKSTSIQLLERFYDPDHGKVMIDGHDSRKVNIQFLRSNIGIVSQEPVLFACSIKDNIKYGDNTQEIPMERIIAAAKKAQVHDFVMSLPEKYETNVGSQGSQLSRGEKQRIAIARAIVRDPKILLLDEATSALDTESEKTVQVALDKAREGRTCIVIAHRLSTIQNSDIIAVMSQGMVIEKGTHEELMVQKGAYYKLVTTGSPIS |
| 7075 | sp|Q9UNQ0|ABCG2\_HUMAN | MSSSNVEVFIPVSQGNTNGFPATASNDLKAFTEGAVLSFHNICYRVKLKSGFLPCRKPVEKEILSNINGIMKPGLNAILGPTGGGKSSLLDVLAARKDPSGLSGDVLINGAPRPANFKCNSGYVVQDDVVMGTLTVRENLQFSAALRLATTMTNHEKNERINRVIQELGLDKVADSKVGTQFIRGVSGGERKRTSIGMELITDPSILFLDEPTTGLDSSTANAVLLLLKRMSKQGRTIIFSIHQPRYSIFKLFDSLTLLASGRLMFHGPAQEALGYFESAGYHCEAYNNPADFFLDIINGDSTAVALNREEDFKATEIIEPSKQDKPLIEKLAEIYVNSSFYKETKAELHQLSGGEKKKKITVFKEISYTTSFCHQLRWVSKRSFKNLLGNPQASIAQIIVTVVLGLVIGAIYFGLKNDSTGIQNRAGVLFFLTTNQCFSSVSAVELFVVEKKLFIHEYISGYYRVSSYFLGKLLSDLLPMRMLPSIIFTCIVYFMLGLKPKADAFFVMMFTLMMVAYSASSMALAIAAGQSVVSVATLLMTICFVFMMIFSGLLVNLTTIASWLSWLQYFSIPRYGFTALQHNEFLGQNFCPGLNATGNNPCNYATCTGEEYLVKQGIDLSPWGLWKNHVALACMIVIFLTIAYLKLLFLKKYS |
| 7076 | sp|Q9H845|ACAD9\_HUMAN | MSGCGLFLRTTAAARACRGLVVSTANRRLLRTSPPVRAFAKELFLGKIKKKEVFPFPEVSQDELNEINQFLGPVEKFFTEEVDSRKIDQEGKIPDETLEKLKSLGLFGLQVPEEYGGLGFSNTMYSRLGEIISMDGSITVTLAAHQAIGLKGIILAGTEEQKAKYLPKLASGEHIAAFCLTEPASGSDAASIRSRATLSEDKKHYILNGSKVWITNGGLANIFTVFAKTEVVDSDGSVKDKITAFIVERDFGGVTNGKPEDKLGIRGSNTCEVHFENTKIPVENILGEVGDGFKVAMNILNSGRFSMGSVVAGLLKRLIEMTAEYACTRKQFNKRLSEFGLIQEKFALMAQKAYVMESMTYLTAGMLDQPGFPDCSIEAAMVKVFSSEAAWQCVSEALQILGGLGYTRDYPYERILRDTRILLIFEGTNEILRMYIALTGLQHAGRILTTRIHELKQAKVSTVMDTVGRRLRDSLGRTVDLGLTGNHGVVHPSLADSANKFEENTYCFGRTVETLLLRFGKTIMEEQLVLKRVANILINLYGMTAVLSRASRSIRIGLRNHDHEVLLANTFCVEAYLQNLFSLSQLDKYAPENLDEQIKKVSQQILEKRAYICAHPLDRTC |
| 7077 | sp|P17516|AK1C4\_HUMAN | MDPKYQRVELNDGHFMPVLGFGTYAPPEVPRNRAVEVTKLAIEAGFRHIDSAYLYNNEEQVGLAIRSKIADGSVKREDIFYTSKLWCTFFQPQMVQPALESSLKKLQLDYVDLYLLHFPMALKPGETPLPKDENGKVIFDTVDLSATWEVMEKCKDAGLAKSIGVSNFNCRQLEMILNKPGLKYKPVCNQVECHPYLNQSKLLDFCKSKDIVLVAHSALGTQRHKLWVDPNSPVLLEDPVLCALAKKHKQTPALIALRYQLQRGVVVLAKSYNEQRIRENIQVFEFQLTSEDMKVLDGLNRNYRYVVMDFLMDHPDYPFSDEY |
| 7078 | sp|Q9TST6|ADRB1\_FELCA | MGAGALALGASEPCNLSSAAPLPDGAATAARLLVPASPSASPLTPTSEGPAPLSQQWTAGIGLLMALIVLLIVAGNVLVIVAIAKTPRLQTLTNLFIMSLASADLVMGLLVVPFGATIVMRGRWEYGSFFCELWTSVDVLCVTASIETLCVIALDRYLAITSPFRYQSLLTRARARALVCTVWAISALVSFLPILMHWWRAEGDEARRCYNDPKCCDFVTNRAYAIASSVVSFYVPLCIMAFVYLRVFREAQKQVKKIDSCERRFLSGPARPPSPAPAPGSPRPAATAAAAAAAAPLANGRISKRRPSRLVALREQKALKTLGIIMGVFTLCWLPFFLANVVKAFHRDLVPDRLFVFFNWLGYANSAFNPIIYCRSPDFRKAFQRLLCFARRAARGGHAAAGDRPRASGCLPGTRPPPSPGAASDEDDDDDVGAAPPARLLEPWAGCNGGAAAADSDSSLDEPGRPAGASESKV |
| 7079 | sp|Q5RJP0|ALD1\_RAT | MTTFVKLRTKAKMPLVGLGTWKSPPGQVKEAVKAAIDAGYRHFDCAYVYQNESEVGEAIQEKIKEKAVRREDLFIVSKLWSTFFEKSLMKEAFQKTLSDLKLDYLDLYLIHWPQGLQAGKEFLPKDSQGKVLMSKSTFLDAWEGMEELVDQGLVKALGVSNFNHFQIERLLNKPGLKHKPVTNQVECHPYLTQEKLIQYCHSKGIAVIAYSPLGSPDRPYAKPEDPVVLEIPKIKEIAAKHKKTIAQVLIRFHVQRNVAVIPKSVTLSHIKENIQVFDFQLSEEDMAAILSLNRNWRACGLFVTSDEEDFPFHEEY |
| 7080 | sp|Q07075|AMPE\_HUMAN | MNFAEREGSKRYCIQTKHVAILCAVVVGVGLIVGLAVGLTRSCDSSGDGGPGTAPAPSHLPSSTASPSGPPAQDQDICPASEDESGQWKNFRLPDFVNPVHYDLHVKPLLEEDTYTGTVSISINLSAPTRYLWLHLRETRITRLPELKRPSGDQVQVRRCFEYKKQEYVVVEAEEELTPSSGDGLYLLTMEFAGWLNGSLVGFYRTTYTENGQVKSIVATDHEPTDARKSFPCFDEPNKKATYTISITHPKEYGALSNMPVAKEESVDDKWTRTTFEKSVPMSTYLVCFAVHQFDSVKRISNSGKPLTIYVQPEQKHTAEYAANITKSVFDYFEEYFAMNYSLPKLDKIAIPDFGTGAMENWGLITYRETNLLYDPKESASSNQQRVATVVAHELVHQWFGNIVTMDWWEDLWLNEGFASFFEFLGVNHAETDWQMRDQMLLEDVLPVQEDDSLMSSHPIIVTVTTPDEITSVFDGISYSKGSSILRMLEDWIKPENFQKGCQMYLEKYQFKNAKTSDFWAALEEASRLPVKEVMDTWTRQMGYPVLNVNGVKNITQKRFLLDPRANPSQPPSDLGYTWNIPVKWTEDNITSSVLFNRSEKEGITLNSSNPSGNAFLKINPDHIGFYRVNYEVATWDSIATALSLNHKTFSSADRASLIDDAFALARAQLLDYKVALNLTKYLKREENFLPWQRVISAVTYIISMFEDDKELYPMIEEYFQGQVKPIADSLGWNDAGDHVTKLLRSSVLGFACKMGDREALNNASSLFEQWLNGTVSLPVNLRLLVYRYGMQNSGNEISWNYTLEQYQKTSLAQEKEKLLYGLASVKNVTLLSRYLDLLKDTNLIKTQDVFTVIRYISYNSYGKNMAWNWIQLNWDYLVNRYTLNNRNLGRIVTIAEPFNTELQLWQMESFFAKYPQAGAGEKPREQVLETVKNNIEWLKQHRNTIREWFFNLLESG |
| 7081 | sp|Q9H2A2|AL8A1\_HUMAN | MAGTNALLMLENFIDGKFLPCSSYIDSYDPSTGEVYCRVPNSGKDEIEAAVKAAREAFPSWSSRSPQERSRVLNQVADLLEQSLEEFAQAESKDQGKTLALARTMDIPRSVQNFRFFASSSLHHTSECTQMDHLGCMHYTVRAPVGVAGLISPWNLPLYLLTWKIAPAMAAGNTVIAKPSELTSVTAWMLCKLLDKAGVPPGVVNIVFGTGPRVGEALVSHPEVPLISFTGSQPTAERITQLSAPHCKKLSLELGGKNPAIIFEDANLDECIPATVRSSFANQGEICLCTSRIFVQKSIYSEFLKRFVEATRKWKVGIPSDPLVSIGALISKAHLEKVRSYVKRALAEGAQIWCGEGVDKLSLPARNQAGYFMLPTVITDIKDESCCMTEEIFGPVTCVVPFDSEEEVIERANNVKYGLAATVWSSNVGRVHRVAKKLQSGLVWTNCWLIRELNLPFGGMKSSGIGREGAKDSYDFFTEIKTITVKH |
| 7082 | sp|P12711|ADHX\_RAT | MANQVIRCKAAVAWEAGKPLSIEEIEVAPPQAHEVRIKIIATAVCHTDAYTLSGADPEGCFPVILGHEGAGIVESVGEGVTKLKAGDTVIPLYIPQCGECKFCLNPKTNLCQKIRVTQGKGLMPDGTSRFTCKGKPILHFMGTSTFSEYTVVADISVAKIDPSAPLDKVCLLGCGISTGYGAAVNTAKVEPGSTCAVFGLGGVGLAVIMGCKVAGASRIIGIDINKDKFAKAKEFGATECINPQDFSKSIQEVLIEMTDGGVDFSFECIGNVKVMRSALEAAHKGWGVSVVVGVAASGEEISTRPFQLVTGRTWKGTAFGGWKSVESVPKLVSEYMSKKIKVDEFVTGNLSFDQINKAFDLMHSGNSIRTVLKM |
| 7083 | sp|P38483|ABEC1\_RAT | MSSETGPVAVDPTLRRRIEPHEFEVFFDPRELRKETCLLYEINWGGRHSIWRHTSQNTNKHVEVNFIEKFTTERYFCPNTRCSITWFLSWSPCGECSRAITEFLSRYPHVTLFIYIARLYHHADPRNRQGLRDLISSGVTIQIMTEQESGYCWRNFVNYSPSNEAHWPRYPHLWVRLYVLELYCIILGLPPCLNILRRKQPQLTFFTIALQSCHYQRLPPHILWATGLK |
| 7084 | sp|Q9UKV8|AGO2\_HUMAN | MYSGAGPALAPPAPPPPIQGYAFKPPPRPDFGTSGRTIKLQANFFEMDIPKIDIYHYELDIKPEKCPRRVNREIVEHMVQHFKTQIFGDRKPVFDGRKNLYTAMPLPIGRDKVELEVTLPGEGKDRIFKVSIKWVSCVSLQALHDALSGRLPSVPFETIQALDVVMRHLPSMRYTPVGRSFFTASEGCSNPLGGGREVWFGFHQSVRPSLWKMMLNIDVSATAFYKAQPVIEFVCEVLDFKSIEEQQKPLTDSQRVKFTKEIKGLKVEITHCGQMKRKYRVCNVTRRPASHQTFPLQQESGQTVECTVAQYFKDRHKLVLRYPHLPCLQVGQEQKHTYLPLEVCNIVAGQRCIKKLTDNQTSTMIRATARSAPDRQEEISKLMRSASFNTDPYVREFGIMVKDEMTDVTGRVLQPPSILYGGRNKAIATPVQGVWDMRNKQFHTGIEIKVWAIACFAPQRQCTEVHLKSFTEQLRKISRDAGMPIQGQPCFCKYAQGADSVEPMFRHLKNTYAGLQLVVVILPGKTPVYAEVKRVGDTVLGMATQCVQMKNVQRTTPQTLSNLCLKINVKLGGVNNILLPQGRPPVFQQPVIFLGADVTHPPAGDGKKPSIAAVVGSMDAHPNRYCATVRVQQHRQEIIQDLAAMVRELLIQFYKSTRFKPTRIIFYRDGVSEGQFQQVLHHELLAIREACIKLEKDYQPGITFIVVQKRHHTRLFCTDKNERVGKSGNIPAGTTVDTKITHPTEFDFYLCSHAGIQGTSRPSHYHVLWDDNRFSSDELQILTYQLCHTYVRCTRSVSIPAPAYYAHLVAFRARYHLVDKEHDSAEGSHTSGQSNGRDHQALAKAVQVHQDTLRTMYFA |
| 7085 | sp|Q8NQ98|ACNA\_CORGL | MTESKNSFNAKSTLEVGDKSYDYFALSAVPGMEKLPYSLKVLGENLLRTEDGANITNEHIEAIANWDASSDPSIEIQFTPARVLMQDFTGVPCVVDLATMREAVAALGGDPNDVNPLNPAEMVIDHSVIVEAFGRPDALAKNVEIEYERNEERYQFLRWGSESFSNFRVVPPGTGIVHQVNIEYLARVVFDNEGLAYPDTCIGTDSHTTMENGLGILGWGVGGIEAEAAMLGQPVSMLIPRVVGFKLTGEIPVGVTATDVVLTITEMLRDHGVVQKFVEFYGSGVKAVPLANRATIGNMSPEFGSTCAMFPIDEETTKYLRLTGRPEEQVALVEAYAKAQGMWLDEDTVEAEYSEYLELDLSTVVPSIAGPKRPQDRILLSEAKEQFRKDLPTYTDDAVSVDTSIPATRMVNEGGGQPEGGVEADNYNASWAGSGESLATGAEGRPSKPVTVASPQGGEYTIDHGMVAIASITSCTNTSNPSVMIGAGLIARKAAEKGLKSKPWVKTICAPGSQVVDGYYQRADLWKDLEAMGFYLSGFGCTTCIGNSGPLPEEISAAINEHDLTATAVLSGNRNFEGRISPDVKMNYLASPIMVIAYAIAGTMDFDFENEALGQDQDGNDVFLKDIWPSTEEIEDTIQQAISRELYEADYADVFKGDKQWQELDVPTGDTFEWDENSTYIRKAPYFDGMPVEPVAVTDIQGARVLAKLGDSVTTDHISPASSIKPGTPAAQYLDEHGVERHDYNSLGSRRGNHEVMMRGTFANIRLQNQLVDIAGGYTRDFTQEGAPQAFIYDASVNYKAAGIPLVVLGGKEYGTGSSRDWAAKGTNLLGIRAVITESFERIHRSNLIGMGVVPLQFPAGESHESLGLDGTETFDITGLTALNEGETPKTVKVTATKENGDVVEFDAVVRIDTPGEADYYRHGGILQYVLRQMAASSK |
| 7086 | sp|P55263|ADK\_HUMAN | MAAAEEEPKPKKLKVEAPQALRENILFGMGNPLLDISAVVDKDFLDKYSLKPNDQILAEDKHKELFDELVKKFKVEYHAGGSTQNSIKVAQWMIQQPHKAATFFGCIGIDKFGEILKRKAAEAHVDAHYYEQNEQPTGTCAACITGDNRSLIANLAAANCYKKEKHLDLEKNWMLVEKARVCYIAGFFLTVSPESVLKVAHHASENNRIFTLNLSAPFISQFYKESLMKVMPYVDILFGNETEAATFAREQGFETKDIKEIAKKTQALPKMNSKRQRIVIFTQGRDDTIMATESEVTAFAVLDQDQKEIIDTNGAGDAFVGGFLSQLVSDKPLTECIRAGHYAASIIIRRTGCTFPEKPDFH |
| 7087 | sp|P61163|ACTZ\_HUMAN | MESYDVIANQPVVIDNGSGVIKAGFAGDQIPKYCFPNYVGRPKHVRVMAGALEGDIFIGPKAEEHRGLLSIRYPMEHGIVKDWNDMERIWQYVYSKDQLQTFSEEHPVLLTEAPLNPRKNRERAAEVFFETFNVPALFISMQAVLSLYATGRTTGVVLDSGDGVTHAVPIYEGFAMPHSIMRIDIAGRDVSRFLRLYLRKEGYDFHSSSEFEIVKAIKERACYLSINPQKDETLETEKAQYYLPDGSTIEIGPSRFRAPELLFRPDLIGEESEGIHEVLVFAIQKSDMDLRRTLFSNIVLSGGSTLFKGFGDRLLSEVKKLAPKDVKIRISAPQERLYSTWIGGSILASLDTFKKMWVSKKEYEEDGARSIHRKTF |
| 7088 | sp|Q96L96|ALPK3\_HUMAN | MEVAWLVYVLGQQPLARQGEGQSRLVPGRGLVLWLPGLPRSSPSWPAVDLAPLAPARPRGPLICHTGHEQAGREPGPGSSTKGPVLHDQDTRCAFLPRPPGPLQTRRYCRHQGRQGSGLGAGPGAGTWAPAPPGVSKPRCPGRARPGEGQQQVTTARPPAINRGARQPRAGAAAAGRGPGAGAWRTGEAAASAGPAVGEGGAMGSRRAPSRGWGAGGRSGAGGDGEDDGPVWIPSPASRSYLLSVRPETSLSSNRLSHPSSGRSTFCSIIAQLTEETQPLFETTLKSRSVSEDSDVRFTCIVTGYPEPEVTWYKDDTELDRYCGLPKYEITHQGNRHTLQLYRCREEDAAIYQASAQNSKGIVSCSGVLEVGTMTEYKIHQRWFAKLKRKAAAKLREIEQSWKHEKAVPGEVDTLRKLSPDRFQRKRRLSGAQAPGPSVPTREPEGGTLAAWQEGETETAQHSGLGLINSFASGEVTTNGEAAPENGEDGEHGLLTYICDAMELGPQRALKEESGAKKKKKDEESKQGLRKPELEKAAQSRRSSENCIPSSDEPDSCGTQGPVGVEQVQTQPRGRAARGPGSSGTDSTRKPASAVGTPDKAQKAPGPGPGQEVYFSLKDMYLENTQAVRPLGEEGPQTLSVRAPGESPKGKAPLRARSEGVPGAPGQPTHSLTPQPTRPFNRKRFAPPKPKGEATTDSKPISSLSQAPECGAQSLGKAPPQASVQVPTPPARRRHGTRDSTLQGQAGHRTPGEVLECQTTTAPTMSASSSSDVASIGVSTSGSQGIIEPMDMETQEDGRTSANQRTGSKKNVQADGKIQVDGRTRGDGTQTAQRTRADRKTQVDAGTQESKRPQSDRSAQKGMMTQGRAETQLETTQAGEKIQEDRKAQADKGTQEDRRMQGEKGMQGEKGTQSEGSAPTAMEGQSEQEVATSLGPPSRTPKLPPTAGPRAPLNIECFVQTPEGSCFPKKPGCLPRSEEAVVTASRNHEQTVLGPLSGNLMLPAQPPHEGSVEQVGGERCRGPQSSGPVEAKQEDSPFQCPKEERPGGVPCMDQGGCPLAGLSQEVPTMPSLPGTGLTASPKAGPCSTPTSQHGSTATFLPSEDQVLMSSAPTLHLGLGTPTQSHPPETMATSSEGACAQVPDVEGRTPGPRSCDPGLIDSLKNYLLLLLKLSSTETSGAGGESQVGAATGGLVPSATLTPTVEVAGLSPRTSRRILERVENNHLVQSAQTLLLSPCTSRRLTGLLDREVQAGRQALAAARGSWGPGPSSLTVPAIVVDEEDPGLASEGASEGEGEVSPEGPGLLGASQESSMAGRLGEAGGQAAPGQGPSAESIAQEPSQEEKFPGEALTGLPAATPEELALGARRKRFLPKVRAAGDGEATTPEERESPTVSPRGPRKSLVPGSPGTPGRERRSPTQGRKASMLEVPRAEEELAAGDLGPSPKAGGLDTEVALDEGKQETLAKPRKAKDLLKAPQVIRKIRVEQFPDASGSLKLWCQFFNILSDSVLTWAKDQRPVGEVGRSAGDEGPAALAIVQASPVDCGVYRCTIHNEHGSASTDFCLSPEVLSGFISREEGEVGEEIEMTPMVFAKGLADSGCWGDKLFGRLVSEELRGGGYGCGLRKASQAKVIYGLEPIFESGRTCIIKVSSLLVFGPSSETSLVGRNYDVTIQGCKIQNMSREYCKIFAAEARAAPGFGEVPEIIPLYLIYRPANNIPYATLEEDLGKPLESYCSREWGCAEAPTASGSSEAMQKCQTFQHWLYQWTNGSFLVTDLAGVDWKMTDVQIATKLRGYQGLKESCFPALLDRFASSHQCNAYCELLGLTPLKGPEAAHPQAKAKGSKSPSAGRKGSQLSPQPQKKGLPSPQGTRKSAPSSKATPQASEPVTTQLLGQPPTQEEGSKAQGMR |
| 7089 | sp|E3W9M2|AA5GT\_DIACA | MNMSCKFEIVLLVSWWLLLVLVFGVESSMFSEFDRLDFPKHFIFGASSCAYQVEGAAFEDGRTLSTFDIAAHSGHLPGNGDITSDEYHKYKEDVELMVETGLDAYRFSISWSRLIPNGRGPVNPKGLEYYNNLVNALLTKGTQPHVTLLHSDLPQALRDEYGGLFISPKFIDDFVAYADVCFREFGDRVLHWTTFNEANFLAFGDENTPASALYLSAHHLLLAHASATRLYRENYQASQRGFIGINVYAYDFIPETNTEVDVIAAKRARDFFIGWFVQPLMNGEYPLTMRKNGGPRLPKFTPNETELLTGSYDFIGLNYYTAKTVKDDPVMLTVEPRNYYTDQGLISSYLGNIDPYQGHPFFNTPWGLHDVLQQFKQVYGNPPVYIHENGEVGDHDADYDKLINDIPRVEYLQGHIRAVLDAVRNGSNVKGYFVWSFLDMYELMYGTKFTFGLYYIDFNDPKLTRHPKLSQKWYSRFLKGEKASTKASIHTPNEAETHTYFY |
| 7090 | sp|Q9HBW9|AGRL4\_HUMAN | MKRLPLLVVFSTLLNCSYTQNCTKTPCLPNAKCEIRNGIEACYCNMGFSGNGVTICEDDNECGNLTQSCGENANCTNTEGSYYCMCVPGFRSSSNQDRFITNDGTVCIENVNANCHLDNVCIAANINKTLTKIRSIKEPVALLQEVYRNSVTDLSPTDIITYIEILAESSSLLGYKNNTISAKDTLSNSTLTEFVKTVNNFVQRDTFVVWDKLSVNHRRTHLTKLMHTVEQATLRISQSFQKTTEFDTNSTDIALKVFFFDSYNMKHIHPHMNMDGDYINIFPKRKAAYDSNGNVAVAFVYYKSIGPLLSSSDNFLLKPQNYDNSEEEERVISSVISVSMSSNPPTLYELEKITFTLSHRKVTDRYRSLCAFWNYSPDTMNGSWSSEGCELTYSNETHTSCRCNHLTHFAILMSSGPSIGIKDYNILTRITQLGIIISLICLAICIFTFWFFSEIQSTRTTIHKNLCCSLFLAELVFLVGINTNTNKLFCSIIAGLLHYFFLAAFAWMCIEGIHLYLIVVGVIYNKGFLHKNFYIFGYLSPAVVVGFSAALGYRYYGTTKVCWLSTENNFIWSFIGPACLIILVNLLAFGVIIYKVFRHTAGLKPEVSCFENIRSCARGALALLFLLGTTWIFGVLHVVHASVVTAYLFTVSNAFQGMFIFLFLCVLSRKIQEEYYRLFKNVPCCFGCLR |
| 7091 | sp|O35547|ACSL4\_RAT | MKLKLNVLTIVLLPVHLLITIYSALIFIPWYFLTNAKKKNAMAKRIKAKPTSDKPGSPYRSVTHFDSLAVIDIPGADTLDKLFDHAVAKFGKKDSLGTREILSEENEMQPNGKVFKKLILGNYKWINYLEVNCRVNNFGSGLTALGLKPKNTIAIFCETRAEWMIAAQTCFKYNFPLVTLYATLGKEAVVHGLNESEASYLITSVELLESKLKAALLDINCVKHIIYVDNKTINRAEYPEGLEIHSMQSVEELGSKPENSSIPPSRPTPSDMAIVMYTSGSTGRPKGVMMHHSNLIAGMTGQCERIPGLGPKDTYIGYLPLAHVLELTAEISCFTYGCRIGYSSPLTLSDQSSKIKKGSKGDCTVLKPTLMAAVPEIMDRIYKNVMSKVQEMNYIQKTLFKIGYDYKLEQIKKGYDAPLCNLILFKKVKALLGGNVRMMLSGGAPLSPQTHRFMNVCFCCPIGQGYGLTESCGAGTVTEVTDYTTGRVGAPLICCEIKLKDWQEGGYTVHDKPNPRGEIVIGGQNISMGYFKNEEKTAEDYSVDENGQRWFCTGDIGEFHPDGCLQIIDRKKDLVKLQAGEYVSLGKVEAALKNCPLIDNICAFAKSDQSYVISFVVPNQKKLTLLAQQKGVEGSWVDICNNPAMEAEILKEIREAANAMKLERFEIPIKVRLSPEPWTPETGLVTDAFKLKRKELKNHYLKDIERMYGGK |
| 7092 | sp|P61212|ARL1\_RAT | MGGFFSSIFSSLFGTREMRILILGLDGAGKTTILYRLQVGEVVTTIPTIGFNVETVTYKNLKFQVWDLGGQTSIRPYWRCYYSNTDAVIYVVDSCDRDRIGISKSELVAMLEEEELRKAILVVFANKQDMEQAMTPSEMANALGLPALKDRKWQIFKTSATKGTGLDEAMEWLVETLKSRQ |
| 7093 | sp|Q24238|APH4\_DROME | MHCLVILGFLLGSLVAFSWAGVTTQPPPLIRTLSAGGDIGPQFDVGKTKEPEDAEFWHNVGLRQLEKTIKQAQRVKEDSYQKKARNIIIFIGDGMGISTISAGRIYKGQYLKHGYGEEETLVFDDFPNTGMAKTYNVDKQVPDSAGTATAIFSGSKTHYGAIGMDATRSKKNGQQGRVQSVMEWAQKEGKRTGVVTTTRITHATPAATYAHIYDRDWECDTEVPAESVGFHVDIARQLVENAPGNRFNVILGGGMSPMGILNASEVKTTIFEGPTETICTRGDNRNLPAEWLAHHANDTVPPALVHNRKDLLNVNVKKVDHLMGLFRNNHITYSIAREAGEPSLQEMTETALGILERGDESNGFVLLVEGGRIDQGHHMNYARAALHELYEFDLAIQAAVNNTDPDETLILVTADHSHAVTFNGYALRGADILGTANSHEKNDPMFYETISYANGPGYWDHLANDSRPQNSSNMWMPLKHFTAEERAAPTYRHLATVPRKDETHGGEDVAVFAYGPGSSLIRGVFEQNYLAYVMSYAGCLGPAKDFDDSCEDHKDGQKDRPLDKPNPKRNGATVVGASLIPILTAATAAILRGRGL |
| 7094 | sp|Q92870|APBB2\_HUMAN | MSEVLPADSGVDTLAVFMASSGTTDVTNRNSPATPPNTLNLRSSHNELLNAEIKHTETKNSTPPKCRKKYALTNIQAAMGLSDPAAQPLLGNGSANIKLVKNGENQLRKAAEQGQQDPNKNLSPTAVINITSEKLEGKEPHPQDSSSCEILPSQPRRTKSFLNYYADLETSARELEQNRGNHHGTAEEKSQPVQGQASTIIGNGDLLLQKPNRPQSSPEDGQVATVSSSPETKKDHPKTGAKTDCALHRIQNLAPSDEESSWTTLSQDSASPSSPDETDIWSDHSFQTDPDLPPGWKRVSDIAGTYYWHIPTGTTQWERPVSIPADLQGSRKGSLSSVTPSPTPENEKQPWSDFAVLNGGKINSDIWKDLHAATVNPDPSLKEFEGATLRYASLKLRNAPHPDDDDSCSINSDPEAKCFAVRSLGWVEMAEEDLAPGKSSVAVNNCIRQLSYCKNDIRDTVGIWGEGKDMYLILENDMLSLVDPMDRSVLHSQPIVSIRVWGVGRDNGRDFAYVARDKDTRILKCHVFRCDTPAKAIATSLHEICSKIMAERKNAKALACSSLQERANVNLDVPLQVDFPTPKTELVQKFHVQYLGMLPVDKPVGMDILNSAIENLMTSSNKEDWLSVNMNVADATVTVISEKNEEEVLVECRVRFLSFMGVGKDVHTFAFIMDTGNQRFECHVFWCEPNAGNVSEAVQAACMLRYQKCLVARPPSQKVRPPPPPADSVTRRVTTNVKRGVLSLIDTLKQKRPVTEMP |
| 7095 | sp|Q9NVI7|ATD3A\_HUMAN | MSWLFGINKGPKGEGAGPPPPLPPAQPGAEGGGDRGLGDRPAPKDKWSNFDPTGLERAAKAARELEHSRYAKDALNLAQMQEQTLQLEQQSKLKMRLEALSLLHTLVWAWSLCRAGAVQTQERLSGSASPEQVPAGECCALQEYEAAVEQLKSEQIRAQAEERRKTLSEETRQHQARAQYQDKLARQRYEDQLKQQQLLNEENLRKQEESVQKQEAMRRATVEREMELRHKNEMLRVEAEARARAKAERENADIIREQIRLKAAEHRQTVLESIRTAGTLFGEGFRAFVTDWDKVTATVAGLTLLAVGVYSAKNATLVAGRFIEARLGKPSLVRETSRITVLEALRHPIQVSRRLLSRPQDALEGVVLSPSLEARVRDIAIATRNTKKNRSLYRNILMYGPPGTGKTLFAKKLALHSGMDYAIMTGGDVAPMGREGVTAMHKLFDWANTSRRGLLLFVDEADAFLRKRATEKISEDLRATLNAFLYRTGQHSNKFMLVLASNQPEQFDWAINDRINEMVHFDLPGQEERERLVRMYFDKYVLKPATEGKQRLKLAQFDYGRKCSEVARLTEGMSGREIAQLAVSWQATAYASEDGVLTEAMMDTRVQDAVQQHQQKMCWLKAEGPGRGDEPSPS |
| 7096 | sp|P10523|ARRS\_HUMAN | MAASGKTSKSEPNHVIFKKISRDKSVTIYLGNRDYIDHVSQVQPVDGVVLVDPDLVKGKKVYVTLTCAFRYGQEDIDVIGLTFRRDLYFSRVQVYPPVGAASTPTKLQESLLKKLGSNTYPFLLTFPDYLPCSVMLQPAPQDSGKSCGVDFEVKAFATDSTDAEEDKIPKKSSVRLLIRKVQHAPLEMGPQPRAEAAWQFFMSDKPLHLAVSLNKEIYFHGEPIPVTVTVTNNTEKTVKKIKAFVEQVANVVLYSSDYYVKPVAMEEAQEKVPPNSTLTKTLTLLPLLANNRERRGIALDGKIKHEDTNLASSTIIKEGIDRTVLGILVSYQIKVKLTVSGFLGELTSSEVATEVPFRLMHPQPEDPAKESYQDANLVFEEFARHNLKDAGEAEEGKRDKNDVDE |
| 7097 | sp|P09034|ASSY\_RAT | MSSKGSVVLAYSGGLDTSCILVWLKEQGYDVIAYLANIGQKEDFEEARKKALKLGAKKVFIEDVSKEFVEEFIWPAVQSSALYEDRYLLGTSLARPCIARKQVEIAQREGAKYVSHGATGKGNDQVRFELTCYSLAPQIKVIAPWRMPEFYNRFKGRNDLMEYAKQHGIPIPVTPKSPWSMDENLMHISYEAGILENPKNQAPPGLYTKTQDPAKAPNTPDVLEIEFKKGVPVKVTNVKDGTTHSTSLDLFMYLNEVAGKHGVGRIDIVENRFIGMKSRGIYETPAGTILYHAHLDIEAFTMDREVRKIKQGLGLKFAELVYTGFWHSPECEFVRHCIDKSQERVEGKVQVSVFKGQVYILGRESPLSLYNEELVSMNVQGDYEPIDATGFININSLRLKEYHRLQSKVTAK |
| 7098 | sp|Q6RW13|ATRAP\_HUMAN | MELPAVNLKVILLGHWLLTTWGCIVFSGSYAWANFTILALGVWAVAQRDSIDAISMFLGGLLATIFLDIVHISIFYPRVSLTDTGRFGVGMAILSLLLKPLSCCFVYHMYRERGGELLVHTGFLGSSQDRSAYQTIDSAEAPADPFAVPEGRSQDARGY |
| 7099 | sp|Q9FKS4|ATR\_ARATH | MAKDDNNLSSLVHELRERVAASASTPANNLRHSSGDEDALEIRFRAVIPNLLNTYVVPSLGNGREVTAVLKLVGHTARNIPGVFYHGTPSAILPVIARIIPFFAEPEFVPGHGVLLETVGSLLMLLRSNSRKAYRIFFHDALQAIQDMQPIASLHSIEPEVCESHIPFRCFCMSFSGIGGDLPDANKPRDGDGLVLNLLGANRWQPFATCILKLICKCLTEGTLYVQGLIHTSFFKAACSLVCCGGADVQMACFEFATLVGSILTFNILPHVALIQSIILLLSADEGLPVYRNTIYDSTIGRFLTAVYSSCSDAAVKLTAESLVLVLSHALQRTKSEELKASLCSAYVRIVKSCPPCIWKIHCLLELLHLPEPCFQLIECFKAVLIVLGPGCVRVETTKCGSHTSATSDRPVQGINAGKKRHIEDESTYKRKRQKVGDDIRRGVYFAPEFADETDGKDAASLREMLISTVESLKPPPAGPSLSQTESSIVALSMLTNAFCFCPWTDMTHRLFNQMYAWIPWIAGQVEETNPIMFDISIYLEGIHNLLLVGVDPQYEYTSKGNDLVAIQFLLKLPWTHYMLFKTPSSLVKSKCLSVGIWTKLGLQDGSDFDIFSWSLSDDFEQVQAVAAISMPLKVLFSGLGALLHMFPKLEHLLEEKELMIKKAIPQSLGFLSCLYGSSTTDSEKTACHLLLHEDLKKDETLNSLLQGFRCSKCDKFIEREDEKHFRIIETPEMVKLKMDHHRDYFNLQSLYFNLLYDESSEETQLACVEVIRRILGHTSPDILVRTRSQWIRCLQYLLVHVNTDVREAFCAQIGIFVQHPIVSCLFLSEDATEKSCERNFFNLIEHSLAAAKDLLVIQTLLETTAEVMVAVDVTSELFLICLFLLIDQLDHPNLIVRINASKLINRSCYIHVKGGFATLLSTASHIQNELFDNLSVRLTSRPNVVREFAEAVLGVETEELVRKMVPAVLPKLLVYWQENAQAANTLNELAKLIDTDVVPLIVNWLPRVLAFALNQEEDKNLLSVLQLYHSQIGSDNQEIFAAALPALLDELVCFVDIADTPETDRRLQRLPDAIKKISKVLTNAEDLPGFLQNHFVGLLNSIDRKMLHADDIFLQKQALKRIKLLIEMMGHYLSTYVPKLMVLLMHAIEKDALQSEGLLVLHFFTRKLADVSPSSIKYVISQIFAALIPFLEKEKEGPHVYLDEVVKILEELVLKNRDIVKEHICEFPLLPSIPSLGELNNAIQEARGLMSLKDQLRDIVNGMKHENLNVRYMVACELSKLLYNRNEDVAALIAGELVSDMEILSSLITYLLQGCAEESRTTVGQRLKLVCADCLGAIGAIDPAKVRVASCSRFKIQCSDDDLIFELIHKHLARAFRAAQDTIIQDSAALAIQELLKIAGCEPSLAGNVVVLTPQEHVQVNVSGSRRCGGNNEVKDRGQKLWDRFSNYVKELIAPCLTSRFQLPNVSDPGSAGPIYRPSMSFRRWLSYWIRKLTAFATGSRVSIFAACRGIVRHDMQTATYLLPYLVLDVVCHGTEAARLSISEEILSVLDAAASENSGVTINSFGVGQSEVCVQAVFTLLDNLGQWVDDVKQGVALSSSLQSSGGRQVAPKSKDQVSNSTTEQDHLLVQCKYVLELLLAIPKVTLARASFRCQAYARSLMYLESHVRGKSGSLNPAAEKTGIFENADVSSLMGIYSCLDEPDGLSGFASLSKSLNLQDQLLINKKSGNWADVFTACEQALQMEPTSVQRHSDVLNCLLNMCHHQTMVTHVDGLISRVPEYKKTWCTQGVQAAWRLGKWDLMDEYLDGADAEGLLFSSSDSNASFDRDVAKILHAMMKKDQYSVAEGIAISKQALIAPLAAAGMDSYTRAYPFVVKLHLLRELEDFQAVLNGDSYLEKSFSTSDQVFSKAVDNWENRLRFTQSSLWTREPLLAFRRLVFGASGLGAQVGNCWLQYAKLCRLAGHYETAHRAILEAQASGAPNVHMEKAKLLWITKRSDSAIIELQQSLLNMPEGVVDSTVISSINSLLMAPPNPEPTVRNTQSFKEKKDVAKTLLLYSKWIHHSGQKQKKDVLNLYTQVKELLPWEKGYFHLAKYYDELYVDARKCQQESSVFSSAGSKKGSVSSNLSTEKAGWDYLFKGMYFYAKALHSGHKNLFQALPRLLTLWFDFGTIYKTSGSAGNKELKSTHMKIMSLMRGCLKDLPTYQWLTVLPQLVSRICHQNADTVLMVKNIITSVLHQFPQQGLWIMAAVSKSTVPARREAAAEIIQGARKGFNQSDRGHNLFIQFASLTDHFIKLCFHGGQPRSKVINIATEFSALKRMMPLDIIMPIQQSLTISLPAFHMNNNERHSASVFSGSDLPTISGIADEAEILSSLQRPKKIILLGNDGIEYPFLCKPKDDLRKDARMMEFTAMINRLLSKYPESRRRKLYIRTFAVAPLTEDCGLVEWVPHTRGLRHILQDIYISCGKFDRQKTNPQIKRIYDQCAVKKEYEMLKTKILPMFPPVFHKWFLTTFSEPAAWFRSRVAYAHTTAVWSMVGHIVGLGDRHGENILFDSTSGDCVHVDFSCLFDKGLQLEKPELVPFRLTQNMIDGLGITGYEGIFMRVCEITLTVLRTHRETLMSILETFIHDPLVEWTKSHKSSGVEVQNPHAQRAISSIEARLQGVVVGVPLPVEGQARRLIADAVSLENLGKMYIWWMPWF |
| 7100 | sp|Q90670|AVR2B\_CHICK | MSASWLTLAVLCATLGAGPGHGEAETRECIYYNANWELEKTNQSGVERCEGEKDKRLHCYASWRNNSGSIELVKKGCWLDDFNCYDRQECVATEENPQVFFCCCEGNYCNEKFTHLPEVTGPEVIYEPPPPTPSLLNILVYSLLPIAVLSVAILLAFWMYRHRKPPYGHVDINEDPGPPPPSPLVGLKPLQLLEIKARGRFGCVWKAQLMNDYVAVKIFPIQDKQSWQSEREIFNTPGMKHENLLQFIAAEKRGTNLETELWLITAFHDKGSLTDYLKGNIISWNELCHVAETMARGLSYLHEDVPWCKGEGHKPAIAHRDFKSKNVLLKNDLTAVLADFGLAVRFEPGKPPGDTHGQVGTRRYMAPEVLEGAINFQRDAFLRIDMYAMGLVLWELVSRCRAVDGPVDEYMLPFEEEIGQHPSLEDLQEVVVHKKMRPVFKDHWLKHPGLAQLCVTIEECWDHDAEARLSAGCVEERIAQIRKSVNGTTSDCLVSIVTSVTNVDLPPKESSI |
| 7101 | sp|O14981|BTAF1\_HUMAN | MAVSRLDRLFILLDTGTTPVTRKAAAQQLGEVVKLHPHELNNLLSKVLIYLRSANWDTRIAAGQAVEAIVKNVPEWNPVPRTRQEPTSESSMEDSPTTERLNFDRFDICRLLQHGASLLGSAGAEFEVQDEKSGEVDPKERIARQRKLLQKKLGLNMGEAIGMSTEELFNDEDLDYTPTSASFVNKQPTLQAAELIDSEFRAGMSNRQKNKAKRMAKLFAKQRSRDAVETNEKSNDSTDGEPEEKRRKIANVVINQSANDSKVLIDNIPDSSSLIEETNEWPLESFCEELCNDLFNPSWEVRHGAGTGLREILKAHGKSGGKMGDSTLEEMIQQHQEWLEDLVIRLLCVFALDRFGDFVSDEVVAPVRETCAQTLGVVLKHMNETGVHKTVDVLLKLLTQEQWEVRHGGLLGIKYALAVRQDVINTLLPKVLTRIIEGLQDLDDDVRAVAAASLVPVVESLVYLQTQKVPFIINTLWDALLELDDLTASTNSIMTLLSSLLTYPQVQQCSIQQSLTVLVPRVWPFLHHTISSVRRAALETLFTLLSTQDQNSSSWLIPILPDMLRHIFQFCVLESSQEILDLIHKVWMELLSKASVQYVVAAACPWMGAWLCLMMQPSHLPIDLNMLLEVKARAKEKTGGKVRQGQSQNKEVLQEYIAGADTIMEDPATRDFVVMRARMMAAKLLGALCCCICDPGVNVVTQEIKPAESLGQLLLFHLNSKSALQRISVALVICEWAALQKECKAVTLAVQPRLLDILSEHLYYDEIAVPFTRMQNECKQLISSLADVHIEVGNRVNNNVLTIDQASDLVTTVFNEATSSFDLNPQVLQQLDSKRQQVQMTVTETNQEWQVLQLRVHTFAACAVVSLQQLPEKLNPIIKPLMETIKKEENTLVQNYAAQCIAKLLQQCTTRTPCPNSKIIKNLCSSLCVDPYLTPCVTCPVPTQSGQENSKGSTSEKDGMHHTVTKHRGIITLYRHQKAAFAITSRRGPTPKAVKAQIADLPAGSSGNILVELDEAQKPYLVQRRGAEFALTTIVKHFGGEMAVKLPHLWDAMVGPLRNTIDINNFDGKSLLDKGDSPAQELVNSLQVFETAAASMDSELHPLLVQHLPHLYMCLQYPSTAVRHMAARCVGVMSKIATMETMNIFLEKVLPWLGAIDDSVKQEGAIEALACVMEQLDVGIVPYIVLLVVPVLGRMSDQTDSVRFMATQCFATLIRLMPLEAGIPDPPNMSAELIQLKAKERHFLEQLLDGKKLENYKIPVPINAELRKYQQDGVNWLAFLNKYKLHGILCDDMGLGKTLQSICILAGDHCHRAQEYARSKLAECMPLPSLVVCPPTLTGHWVDEVGKFCSREYLNPLHYTGPPTERIRLQHQVKRHNLIVASYDVVRNDIDFFRNIKFNYCILDEGHVIKNGKTKLSKAVKQLTANYRIILSGTPIQNNVLELWSLFDFLMPGFLGTERQFAARYGKPILASRDARSSSREQEAGVLAMDALHRQVLPFLLRRMKEDVLQDLPPKIIQDYYCTLSPLQVQLYEDFAKSRAKCDVDETVSSATLSEETEKPKLKATGHVFQALQYLRKLCNHPALVLTPQHPEFKTTAEKLAVQNSSLHDIQHAPKLSALKQLLLDCGLGNGSTSESGTESVVAQHRILIFCQLKSMLDIVEHDLLKPHLPSVTYLRLDGSIPPGQRHSIVSRFNNDPSIDVLLLTTHVGGLGLNLTGADTVVFVEHDWNPMRDLQAMDRAHRIGQKRVVNVYRLITRGTLEEKIMGLQKFKMNIANTVISQENSSLQSMGTDQLLDLFTLDKDGKAEKADTSTSGKASMKSILENLSDLWDQEQYDSEYSLENFMHSLK |
| 7102 | sp|P13587|ATN1\_YEAST | MGEGTTKENNNAEFNAYHTLTAEEAAEFIGTSLTEGLTQDEFVHRLKTVGENTLGDDTKIDYKAMVLHQVCNAMIMVLLISMIISFAMHDWITGGVISFVIAVNVLIGLVQEYKATKTMNSLKNLSSPNAHVIRNGKSETINSKDVVPGDICLVKVGDTIPADLRLIETKNFDTDESLLTGESLPVSKDANLVFGKEEETSVGDRLNLAFSSSAVVKGRAKGIVIKTALNSEIGKIAKSLQGDSGLISRDPSKSWLQNTWISTKKVTGAFLGTNVGTPLHRKLSKLAVLLFWIAVLFAIIVMASQKFDVDKRVAIYAICVALSMIPSSLVVVLTITMSVGAAVMVSRNVIVRKLDSLEALGAVNDICSDKTGTLTQGKMLARQIWIPRFGTITISNSDDPFNPNEGNVSLIPRFSPYEYSHNEDGDVGILQNFKDRLYEKDLPEDIDMDLFQKWLETATLANIATVFKDDATDCWKAHGDPTEIAIQVFATKMDLPHNALTGEKSTNQSNENDQSSLSQHNEKPGSAQFEHIAEFPFDSTVKRMSSVYYNNHNETYNIYGKGAFESIISCCSSWYGKDGVKITPLTDCDVETIRKNVYSLSNEGLRVLGFASKSFTKDQVNDDQLKNITSNRATAESDLVFLGLIGIYDPPRNETAGAVKKFHQAGINVHMLTGDFVGTAKAIAQEVGILPTNLYHYSQEIVDSMVMTGSQFDGLSEEEVDDLPVLPLVIARCSPQTKVRMIEALHRRKKFCTMTGDGVNDSPSLKMANVGIAMGINGSDVSKEASDIVLSDDNFASILNAVEEGRRMTDNIQKFVLQLLAENVAQALYLIIGLVFRDENGKSVFPLSPVEVLWIIVVTSCFPAMGLGLEKAAPDLMDRPPHDSEVGIFTWEVIIDTFAYGIIMTGSCMASFTGSLYGINSGRLGHDCDGTYNSSCRDVYRSRSAAFATMTWCALILAWEVVDMRRSFFRMHPDTDSPVKEFFRSIWGNQFLFWSIIFGFVSAFPVVYIPVINDKVFLHKPIGAEWGLAIAFTIAFWIGAELYKCGKRRYFKTQRAHNPENDLESNNKRDPFEAYSTSTTIHTEVNIGIKQ |
| 7103 | sp|H9L427|BIPA\_SALTY | MIENLRNIAIIAHVDHGKTTLVDKLLQQSGTFDARAETQERVMDSNDLEKERGITILAKNTAIKWNDYRINIVDTPGHADFGGEVERVMSMVDSVLLVVDAFDGPMPQTRFVTKKAFAHGLKPIVVINKVDRPGARPDWVVDQVFDLFVNLDATDEQLDFPIIYASALNGIAGLDHEDMAEDMTPLYQAIVDHVPAPDVDLDGPLQMQISQLDYNNYVGVIGIGRIKRGKVKPNQQVTIIDSEGKTRNAKVGKVLTHLGLERIDSNIAEAGDIIAITGLGELNISDTICDPQNVEALPALSVDEPTVSMFFCVNTSPFCGKEGKFVTSRQILDRLNKELVHNVALRVEETEDADAFRVSGRGELHLSVLIENMRREGFELAVSRPKVIFREIDGRKQEPYENVTLDVEEQHQGSVMQALGERKGDLKNMNPDGKGRVRLDYVIPSRGLIGFRSEFMTMTSGTGLLYSTFSHYDDIRPGEVGQRQNGVLISNGQGKAVAFALFGLQDRGKLFLGHGAEVYEGQIIGIHSRSNDLTVNCLTGKKLTNMRASGTDEAVILVPPIKMSLEQALEFIDDDELVEVTPTSIRIRKRHLTENDRRRANRGQKEE |
| 7104 | sp|O55003|BNIP3\_MOUSE | MSQSGEENLQGSWVELHFSNGNGSSVPASVSIYNGDMEKILLDAQHESGRSSSKSSHCDSPPRSQTPQDTNRAEIDSHSFGEKNSTLSEEDYIERRREVESILKKNSDWIWDWSSRPENIPPKEFLFKHPKRTATLSMRNTSVMKKGGIFSADFLKVFLPSLLLSHLLAIGLGIYIGRRLTTSTSTF |
| 7105 | sp|O15169|AXIN1\_HUMAN | MNIQEQGFPLDLGASFTEDAPRPPVPGEEGELVSTDPRPASYSFCSGKGVGIKGETSTATPRRSDLDLGYEPEGSASPTPPYLKWAESLHSLLDDQDGISLFRTFLKQEGCADLLDFWFACTGFRKLEPCDSNEEKRLKLARAIYRKYILDNNGIVSRQTKPATKSFIKGCIMKQLIDPAMFDQAQTEIQATMEENTYPSFLKSDIYLEYTRTGSESPKVCSDQSSGSGTGKGISGYLPTLNEDEEWKCDQDMDEDDGRDAAPPGRLPQKLLLETAAPRVSSSRRYSEGREFRYGSWREPVNPYYVNAGYALAPATSANDSEQQSLSSDADTLSLTDSSVDGIPPYRIRKQHRREMQESVQVNGRVPLPHIPRTYRVPKEVRVEPQKFAEELIHRLEAVQRTREAEEKLEERLKRVRMEEEGEDGDPSSGPPGPCHKLPPAPAWHHFPPRCVDMGCAGLRDAHEENPESILDEHVQRVLRTPGRQSPGPGHRSPDSGHVAKMPVALGGAASGHGKHVPKSGAKLDAAGLHHHRHVHHHVHHSTARPKEQVEAEATRRAQSSFAWGLEPHSHGARSRGYSESVGAAPNASDGLAHSGKVGVACKRNAKKAESGKSASTEVPGASEDAEKNQKIMQWIIEGEKEISRHRRTGHGSSGTRKPQPHENSRPLSLEHPWAGPQLRTSVQPSHLFIQDPTMPPHPAPNPLTQLEEARRRLEEEEKRASRAPSKQRYVQEVMRRGRACVRPACAPVLHVVPAVSDMELSETETRSQRKVGGGSAQPCDSIVVAYYFCGEPIPYRTLVRGRAVTLGQFKELLTKKGSYRYYFKKVSDEFDCGVVFEEVREDEAVLPVFEEKIIGKVEKVD |
| 7106 | sp|P41832|BNI1\_YEAST | MLKNSGSKHSNSKESHSNSSSGIFQNLKRLANSNATNSNTGSPTYASQQQHSPVGNEVSTSPASSSSFRKLNAPSRSTSTEARPLNKKSTLNTQNLSQYMNGKLSGDVPVSSQHARSHSMQSKYSYSKRNSSQASNKLTRQHTGQSHSASSLLSQGSLTNLSKFTTPDGKIYLEMPSDPYEVEVLFEDIMYKRNIFQSLSEDKQEALMGYSIEKKWLIVKQDLQNELKKMRANTTSSSTASRTSMASDHHPILTANSSLSSPKSVLMTSASSPTSTVYSNSLNHSTTLSSVGTSTSKGKKLVSGSLKKQPSLNNIYRGGAENNTSASTLPGDRTNRPPIHYVQRILADKLTSDEMKDLWVTLRTEQLDWVDAFIDHQGHIAMANVLMNSIYKTAPRENLTKELLEKENSFFKCFRVLSMLSQGLYEFSTHRLMTDTVAEGLFSTKLATRKMATEIFVCMLEKKNKSRFEAVLTSLDKKFRIGQNLHMIQNFKKMPQYFSHLTLESHLKIIQAWLFAVEQTLDGRGKMGSLVGASDEFKNGGGENAILEYCQWTMVFINHLCSCSDNINQRMLLRTKLENCGILRIMNKIKLLDYDKVIDQIELYDNNKLDDFNVKLEANNKAFNVDLHDPLSLLKNLWDICKGTENEKLLVSLVQHLFLSSSKLIEENQNSSKLTKQLKLMDSLVTNVSVASTSDEETNMNMAIQRLYDAMQTDEVARRAILESRALTKKLEEIQAERDSLSEKLSKAEHGLVGQLEDELHERDRILAKNQRVMQQLEAELEELKKKHLLEKHQQEVELRKMLTILNSRPEESFNKNEGTRGMNSSLNSSEKANIQKVLQDGLSRAKKDYKDDSKKFGMTLQPNKRLKMLRMQMENIENEARQLEMTNFAEFEKDRLEPPIHIKKPKVKKMKNKDRKPLVKPQEADVNKLNDLRRALAEIQMESNDISKFNVEERVNELFNEKKSLALKRLKELETKYKGFGIDFNVDEIMDSPKKNTGDVETEEDANYASLDPKTYQKKLDEINRITDQLLDIQTQTEHEIQVEEDGESDLSSSSSDDESEEIYQDASPTQELRSEHSELSSGSGPGSFLDALSQKYGTGQNVTASAAFGENNNGSGIGPLHSKVEKTFMNRLRKSTVSSAPYLEELTQKVNKVEPYEQNEDEGLDKKSLPENSTASAASAFDKAEKDMRQHVENGKQGRVVNHEEDKTADFSAVSKLNNTDGAEDLSTQSSVLSSQPPPPPPPPPPVPAKLFGESLEKEKKSEDDTVKQETTGDSPAPPPPPPPPPPPPMALFGKPKGETPPPPPLPSVLSSSTDGVIPPAPPMMPASQIKSAVTSPLLPQSPSLFEKYPRPHKKLKQLHWEKLDCTDNSIWGTGKAEKFADDLYEKGVLADLEKAFAAREIKSLASKRKEDLQKITFLSRDISQQFGINLHMYSSLSVADLVKKILNCDRDFLQTPSVVEFLSKSEIIEVSVNLARNYAPYSTDWEGVRNLEDAKPPEKDPNDLQRADQIYLQLMVNLESYWGSRMRALTVVTSYEREYNELLAKLRKVDKAVSALQESDNLRNVFNVILAVGNFMNDTSKQAQGFKLSTLQRLTFIKDTTNSMTFLNYVEKIVRLNYPSFNDFLSELEPVLDVVKVSIEQLVNDCKDFSQSIVNVERSVEIGNLSDSSKFHPLDKVLIKTLPVLPEARKKGDLLEDEVKLTIMEFESLMHTYGEDSGDKFAKISFFKKFADFINEYKKAQAQNLAAEEEERLYIKHKKIVEEQQKRAQEKEKQKENSNSPSSEGNEEDEAEDRRAVMDKLLEQLKNAGPAKSDPSSARKRALVRKKYLSEKDNAPQLLNDLDTEEGSILYSPEAMDPTADTVIHAESPTPLATRGVMNTSEDLPSPSKTSALEDQEEISDRARMLLKELRGSDTPVKQNSILDEHLEKLRARKERSIGEASTGNRLSFK |
| 7107 | sp|I0J1I6|BSR\_PSETA | MPFSRTLLALSLGMALLQNPAFAAPPLSMTDGVAQVNTQDSNAWVEINKAAFEHNIRTLQTALAGKSQICAVLKADAYGHGIGLLMPSVIAMGVPCVGVASNEEARVVRESGFKGQLIRVRTAALSELEAALPYNMEELVGNLDFAVKASLIAEDHGRPLVVHLGLNSSGMSRNGVDMTTAQGRRDAVAITKVPNLEVRAIMTHFAVEDAADVRAGLKAFNQQAQWLMNVAQLDRSKITLHAANSFATLEVPESHLDMVRPGGALFGDTVPSHTEYKRVMQFKSHVASVNSYPKGNTVGYGRTYTLGRDSRLANITVGYSDGYRRAFTNKGIVLINGHRVPVVGKVSMNTLMVDVTDAPDVKSGDEVVLFGHQGKAEITQAEIEDINGALLADLYTVWGNSNPKILKDQ |
| 7108 | sp|P11709|BIK1\_YEAST | MDRYQRKIGCFIQIPNLGRGQLKYVGPVDTKAGMFAGVDLLANIGKNDGSFMGKKYFQTEYPQSGLFIQLQKVASLIEKASISQTSRRTTMEPLSIPKNRSIVRLTNQFSPMDDPKSPTPMRSFRITSRHSGNQQSMDQEASDHHQQQEFGYDNREDRMEVDSILSSDRKANHNTTSDWKPDNGHMNDLNSSEVTIELREAQLTIEKLQRKQLHYKRLLDDQRMVLEEVQPTFDRYEATIQEREKEIDHLKQQLELERRQQAKQKQFFDAENEQLLAVVSQLHEEIKENEERNLSHNQPTGANEDVELLKKQLEQLRNIEDQFELHKTKWAKEREQLKMHNDSLSKEYQNLSKELFLTKPQDSSSEEVASLTKKLEEANEKIKQLEQAQAQTAVESLPIFDPPAPVDTTAGRQQWCEHCDTMGHNTAECPHHNPDNQQFF |
| 7109 | sp|Q01532|BLH1\_YEAST | MLPTSVSRSLYLKTFRSHLLRAPQIVLKRMSSSIDISKINSWNKEFQSDLTHQLATTVLKNYNADDALLNKTRLQKQDNRVFNTVVSTDSTPVTNQKSSGRCWLFAATNQLRLNVLSELNLKEFELSQAYLFFYDKLEKANYFLDQIVSSADQDIDSRLVQYLLAAPTEDGGQYSMFLNLVKKYGLIPKDLYGDLPYSTTASRKWNSLLTTKLREFAETLRTALKERSADDSIIVTLREQMQREIFRLMSLFMDIPPVQPNEQFTWEYVDKDKKIHTIKSTPLEFASKYAKLDPSTPVSLINDPRHPYGKLIKIDRLGNVLGGDAVIYLNVDNETLSKLVVKRLQNNKAVFFGSHTPKFMDKKTGVMDIELWNYPAIGYNLPQQKASRIRYHESLMTHAMLITGCHVDETSKLPLRYRVENSWGKDSGKDGLYVMTQKYFEEYCFQIVVDINELPKELASKFTSGKEEPIVLPIWDPMGALAK |
| 7110 | sp|A0A044RE18|BLI\_ONCVO | MYWQLVRILVLFDCLQKILAIEHDSICIADVDDACPEPSHTVMRLRERNDKKAHLIAKQHGLEIRGQPFLDGKSYFVTHISKQRSRRRKREIISRLQEHPDILSIEEQRPRVRRKRDFLYPDIAHELAGSSTNIRHTGLISNTEPRIDFIQHDAPVLPFPDPLYKEQWYLNNGAQGGFDMNVQAAWLLGYAGRNISVSILDDGIQRDHPDLAANYDPLASTDINGHDDDPTPQDDGDNKHGTRCAGEVASIAGNVYCGVGVAFHAKIGGVRMLDGPVSDSVEAASLSLNRHHIDIYSASWGPEDDGRTFDGPGPLAREAFYRGVKAGRGGKGSIFVWASGNGGSRQDSCSADGYTTSVYTLSVSSATIDNRSPWYLEECPSTIATTYSSANMNQPAIITVDVPHGCTRSHTGTSASAPLAAGIIALALEANPNLTWRDMQHIVLRTANPVPLLNNPGWSVNGVGRRINNKFGYGLMDAGALVKLALIWKTVPEQHICTYDYKLEKPNPRPITGNFQMNFSLEVNGCESGTPVLYLEHVQVLATFRFGKRGDLKLTLFSPRGTSSVLLPPRPQDFNSNGIHKWPFLSVQTWGEDPRGKWTLMVESVSTNRNVGGTFHDWSLLLYGTAEPAQPNDPRHSSVVPSSVSAESPFDRITQHIASQEKKKKQRDSRDWQPKKVENKKSLLVSAQPELRV |
| 7111 | sp|Q9UIF8|BAZ2B\_HUMAN | MESGERLPSSAASSTTPTSSSTPSVASVVSKGGLSTGVASLSSTINPCGHLFRTAGDQPFNLSTVSSAFPMVSHPVFGLHSASSGHSEFGGLGTLGTPTALAAHPQLASFPGAEWWRTTDAHTRTGATFFPPLLGIPPLFAPPAQNHDSSSFHSRTSGKSNRNGPEKGVNGSINGSNTSSVIGINTSVLSTTASSSMGQTKSTSSGGGNRKCNQEQSKNQPLDARVDKIKDKKPRKKAMESSSNSDSDSGTSSDTSSEGISSSDSDDLEEDEEEEDQSIEESEDDDSDSESEAQHKSNNQVLLHGISDPKADGQKATEKAQEKRIHQPLPLASESQTHSFQSQQKQPQVLSQQLPFIFQSSQAKEESVNKHTSVIQSTGLVSNVKPLSLVNQAKKETYMKLIVPSPDVLKAGNKNTSEESSLLTSELRSKREQYKQAFPSQLKKQESSKSLKKVIAALSNPKATSSSPAHPKQTLENNHPNPFLTNALLGNHQPNGVIQSVIQEAPLALTTKTKMQSKINENIAAASSTPFSSPVNLSTSGRRTPGNQTPVMPSASPILHSQGKEKAVSNNVNPVKTQHHSHPAKSLVEQFRGTDSDIPSSKDSEDSNEDEEEDDEEEDEEDDEDDESDDSQSESDSNSESDTEGSEEEDDDDKDQDESDSDTEGEKTSMKLNKTTSSVKSPSMSLTGHSTPRNLHIAKAPGSAPAALCSESQSPAFLGTSSSTLTSSPHSGTSKRRRVTDERELRIPLEYGWQRETRIRNFGGRLQGEVAYYAPCGKKLRQYPEVIKYLSRNGIMDISRDNFSFSAKIRVGDFYEARDGPQGMQWCLLKEEDVIPRIRAMEGRRGRPPNPDRQRAREESRMRRRKGRPPNVGNAEFLDNADAKLLRKLQAQEIARQAAQIKLLRKLQKQEQARVAKEAKKQQAIMAAEEKRKQKEQIKIMKQQEKIKRIQQIRMEKELRAQQILEAKKKKKEEAANAKLLEAEKRIKEKEMRRQQAVLLKHQERERRRQHMMLMKAMEARKKAEEKERLKQEKRDEKRLNKERKLEQRRLELEMAKELKKPNEDMCLADQKPLPELPRIPGLVLSGSTFSDCLMVVQFLRNFGKVLGFDVNIDVPNLSVLQEGLLNIGDSMGEVQDLLVRLLSAAVCDPGLITGYKAKTALGEHLLNVGVNRDNVSEILQIFMEAHCGQTELTESLKTKAFQAHTPAQKASVLAFLINELACSKSVVSEIDKNIDYMSNLRRDKWVVEGKLRKLRIIHAKKTGKRDTSGGIDLGEEQHPLGTPTPGRKRRRKGGDSDYDDDDDDDSDDQGDEDDEDEEDKEDKKGKKTDICEDEDEGDQAASVEELEKQIEKLSKQQSQYRRKLFDASHSLRSVMFGQDRYRRRYWILPQCGGIFVEGMESGEGLEEIAKEREKLKKAESVQIKEEMFETSGDSLNCSNTDHCEQKEDLKEKDNTNLFLQKPGSFSKLSKLLEVAKMPPESEVMTPKPNAGANGCTLSYQNSGKHSLGSVQSTATQSNVEKADSNNLFNTGSSGPGKFYSPLPNDQLLKTLTEKNRQWFSLLPRTPCDDTSLTHADMSTASLVTPQSQPPSKSPSPTPAPLGSSAQNPVGLNPFALSPLQVKGGVSMMGLQFCGWPTGVVTSNIPFTSSVPSLGSGLGLSEGNGNSFLTSNVASSKSESPVPQNEKATSAQPAAVEVAKPVDFPSPKPIPEEMQFGWWRIIDPEDLKALLKVLHLRGIREKALQKQIQKHLDYITQACLKNKDVAIIELNENEENQVTRDIVENWSVEEQAMEMDLSVLQQVEDLERRVASASLQVKGWMCPEPASEREDLVYFEHKSFTKLCKEHDGEFTGEDESSAHALERKSDNPLDIAVTRLADLERNIERRIEEDIAPGLRVWRRALSEARSAAQVALCIQQLQKSIAWEKSIMKVYCQICRKGDNEELLLLCDGCDKGCHTYCHRPKITTIPDGDWFCPACIAKASGQTLKIKKLHVKGKKTNESKKGKKVTLTGDTEDEDSASTSSSLKRGNKDLKKRKMEENTSINLSKQESFTSVKKPKRDDSKDLALCSMILTEMETHEDAWPFLLPVNLKLVPGYKKVIKKPMDFSTIREKLSSGQYPNLETFALDVRLVFDNCETFNEDDSDIGRAGHNMRKYFEKKWTDTFKVS |
| 7112 | sp|Q6UX41|BTNL8\_HUMAN | MALMLSLVLSLLKLGSGQWQVFGPDKPVQALVGEDAAFSCFLSPKTNAEAMEVRFFRGQFSSVVHLYRDGKDQPFMQMPQYQGRTKLVKDSIAEGRISLRLENITVLDAGLYGCRISSQSYYQKAIWELQVSALGSVPLISITGYVDRDIQLLCQSSGWFPRPTAKWKGPQGQDLSTDSRTNRDMHGLFDVEISLTVQENAGSISCSMRHAHLSREVESRVQIGDTFFEPISWHLATKVLGILCCGLFFGIVGLKIFFSKFQWKIQAELDWRRKHGQAELRDARKHAVEVTLDPETAHPKLCVSDLKTVTHRKAPQEVPHSEKRFTRKSVVASQSFQAGKHYWEVDGGHNKRWRVGVCRDDVDRRKEYVTLSPDHGYWVLRLNGEHLYFTLNPRFISVFPRTPPTKIGVFLDYECGTISFFNINDQSLIYTLTCRFEGLLRPYIEYPSYNEQNGTPIVICPVTQESEKEASWQRASAIPETSNSESSSQATTPFLPRGEM |
| 7113 | sp|P40450|BNR1\_YEAST | MDSSPNKKTYRYPRRSLSLHARDRVSEARKLEELNLNDGLVAAGLQLVGVALEKQGTGSHIYMKQKNFSANDVSSSPMVSEEVNGSEMDFNPKCMPQDASLVERMFDELLKDGTFFWGAAYKNLQNISLRRKWLLICKIRSSNHWGKKKVTSSTTYSTHLATNELAENAHFLDGLVRNLSTGGMKLSKALYKLEKFLRKQSFLQLFLKDEIYLTTLIEKTLPLISKELQFVYLRCFKILMNNPLARIRALHSEPLIRWFTELLTDQNSNLKCQLLSMELLLLLTYVEGSTGCELIWDQLSILFTDWLEWFDKILADDIAIHSSLYLNWNQLKIDYSTTFLLLINSILQGFNNKTALEILNFLKKNNIHNTITFLELAYKDDPNSVVIMEQIKQFKSKESAIFDSMIKTTNDTNSLHPTKDIARIESEPLCLENCLLLKAKDSPVEAPINEIIQSLWKILDSQKPYSESIKLLKLINSLLFYLIDSFQVSTNPSFDETLESAENVDYVFQDSVNKLLDSLQSDEIARRAVTEIDDLNAKISHLNEKLNLVENHDKDHLIAKLDESESLISLKTKEIENLKLQLKATKKRLDQITTHQRLYDQPPSLASSNLSIAGSIIKNNSHGNIIFQNLAKKQQQQQKISLPKRSTSLLKSKRVTSLSSYLTDANNENESQNESEDKSKDSLFQRSTSTINFNIPSMKNITNMQNVSLNSILSELEFSNSLGTQPNYQSSPVLSSVSSSPKLFPRLSSDSLDNGIQLVPEVVKLPQLPPPPPPPPPPPLPQSLLTEAEAKPDGVSCIAAPAPPPLPDLFKTKTCGAVPPPPPPPPLPESLSMNKGPSNHDLVTPPAPPLPNGLLSSSSVSINPTTTDLKPPPTEKRLKQIHWDKVEDIKDTLWEDTFQRQETIKELQTDGIFSQIEDIFKMKSPTKIANKRNAESSIALSSNNGKSSNELKKISFLSRDLAQQFGINLHMFSQLSDMEFVMKVLNCDNDIVQNVNILKFFCKEELVNIPKSMLNKYEPYSQGKDGKAVSDLQRADRIFLELCINLRFYWNARSKSLLTLSTYERDYYDLIFKLQKIDDAISHLNRSPKFKSLMFIITEIGNHMNKRIVKGIKLKSLTKLAFVRSSIDQNVSFLHFIEKVIRIKYPDIYGFVDDLKNIEDLGKISLEHVESECHEFHKKIEDLVTQFQVGKLSKEENLDPRDQIIKKVKFKINRAKTKSELLIGQCKLTLIDLNKLMKYYGEDPKDKESKNEFFQPFIEFLAMFKKCAKENIEKEEMERVYEQRKSLLDMRTSSNKKSNGSDENDGEKVNRDAVDLLISKLREVKKDPEPLRRRKSTKLNEIAINVHEGDVKTRKDEDHVLLERTHAMLNDIQNI |
| 7114 | sp|Q8IWQ3|BRSK2\_HUMAN | MTSTGKDGGAQHAQYVGPYRLEKTLGKGQTGLVKLGVHCVTCQKVAIKIVNREKLSESVLMKVEREIAILKLIEHPHVLKLHDVYENKKYLYLVLEHVSGGELFDYLVKKGRLTPKEARKFFRQIISALDFCHSHSICHRDLKPENLLLDEKNNIRIADFGMASLQVGDSLLETSCGSPHYACPEVIRGEKYDGRKADVWSCGVILFALLVGALPFDDDNLRQLLEKVKRGVFHMPHFIPPDCQSLLRGMIEVDAARRLTLEHIQKHIWYIGGKNEPEPEQPIPRKVQIRSLPSLEDIDPDVLDSMHSLGCFRDRNKLLQDLLSEEENQEKMIYFLLLDRKERYPSQEDEDLPPRNEIDPPRKRVDSPMLNRHGKRRPERKSMEVLSVTDGGSPVPARRAIEMAQHGQRSRSISGASSGLSTSPLSSPRVTPHPSPRGSPLPTPKGTPVHTPKESPAGTPNPTPPSSPSVGGVPWRARLNSIKNSFLGSPRFHRRKLQVPTPEEMSNLTPESSPELAKKSWFGNFISLEKEEQIFVVIKDKPLSSIKADIVHAFLSIPSLSHSVISQTSFRAEYKATGGPAVFQKPVKFQVDITYTEGGEAQKENGIYSVTFTLLSGPSRRFKRVVETIQAQLLSTHDPPAAQHLSDTTNCMEMMTGRLSKCGSPLSNFFDVIKQLFSDEKNGQAAQAPSTPAKRSAHGPLGDSAAAGPGPGGDAEYPTGKDTAKMGPPTARREQP |
| 7115 | sp|Q9UIG0|BAZ1B\_HUMAN | MAPLLGRKPFPLVKPLPGEEPLFTIPHTQEAFRTREEYEARLERYSERIWTCKSTGSSQLTHKEAWEEEQEVAELLKEEFPAWYEKLVLEMVHHNTASLEKLVDTAWLEIMTKYAVGEECDFEVGKEKMLKVKIVKIHPLEKVDEEATEKKSDGACDSPSSDKENSSQIAQDHQKKETVVKEDEGRRESINDRARRSPRKLPTSLKKGERKWAPPKFLPHKYDVKLQNEDKIISNVPADSLIRTERPPNKEIVRYFIRHNALRAGTGENAPWVVEDELVKKYSLPSKFSDFLLDPYKYMTLNPSTKRKNTGSPDRKPSKKSKTDNSSLSSPLNPKLWCHVHLKKSLSGSPLKVKNSKNSKSPEEHLEEMMKMMSPNKLHTNFHIPKKGPPAKKPGKHSDKPLKAKGRSKGILNGQKSTGNSKSPKKGLKTPKTKMKQMTLLDMAKGTQKMTRAPRNSGGTPRTSSKPHKHLPPAALHLIAYYKENKDREDKRSALSCVISKTARLLSSEDRARLPEELRSLVQKRYELLEHKKRWASMSEEQRKEYLKKKREELKKKLKEKAKERREKEMLERLEKQKRYEDQELTGKNLPAFRLVDTPEGLPNTLFGDVAMVVEFLSCYSGLLLPDAQYPITAVSLMEALSADKGGFLYLNRVLVILLQTLLQDEIAEDYGELGMKLSEIPLTLHSVSELVRLCLRRSDVQEESEGSDTDDNKDSAAFEDNEVQDEFLEKLETSEFFELTSEEKLQILTALCHRILMTYSVQDHMETRQQMSAELWKERLAVLKEENDKKRAEKQKRKEMEAKNKENGKVENGLGKTDRKKEIVKFEPQVDTEAEDMISAVKSRRLLAIQAKKEREIQEREMKVKLERQAEEERIRKHKAAAEKAFQEGIAKAKLVMRRTPIGTDRNHNRYWLFSDEVPGLFIEKGWVHDSIDYRFNHHCKDHTVSGDEDYCPRSKKANLGKNASMNTQHGTATEVAVETTTPKQGQNLWFLCDSQKELDELLNCLHPQGIRESQLKERLEKRYQDIIHSIHLARKPNLGLKSCDGNQELLNFLRSDLIEVATRLQKGGLGYVEETSEFEARVISLEKLKDFGECVIALQASVIKKFLQGFMAPKQKRRKLQSEDSAKTEEVDEEKKMVEEAKVASALEKWKTAIREAQTFSRMHVLLGMLDACIKWDMSAENARCKVCRKKGEDDKLILCDECNKAFHLFCLRPALYEVPDGEWQCPACQPATARRNSRGRNYTEESASEDSEDDESDEEEEEEEEEEEEEDYEVAGLRLRPRKTIRGKHSVIPPAARSGRRPGKKPHSTRRSQPKAPPVDDAEVDELVLQTKRSSRRQSLELQKCEEILHKIVKYRFSWPFREPVTRDEAEDYYDVITHPMDFQTVQNKCSCGSYRSVQEFLTDMKQVFTNAEVYNCRGSHVLSCMVKTEQCLVALLHKHLPGHPYVRRKRKKFPDRLAEDEGDSEPEAVGQSRGRRQKK |
| 7116 | sp|P12995|BIOA\_ECOLI | MTTDDLAFDQRHIWHPYTSMTSPLPVYPVVSAEGCELILSDGRRLVDGMSSWWAAIHGYNHPQLNAAMKSQIDAMSHVMFGGITHAPAIELCRKLVAMTPQPLECVFLADSGSVAVEVAMKMALQYWQAKGEARQRFLTFRNGYHGDTFGAMSVCDPDNSMHSLWKGYLPENLFAPAPQSRMDGEWDERDMVGFARLMAAHRHEIAAVIIEPIVQGAGGMRMYHPEWLKRIRKICDREGILLIADEIATGFGRTGKLFACEHAEIAPDILCLGKALTGGTMTLSATLTTREVAETISNGEAGCFMHGPTFMGNPLACAAANASLAILESGDWQQQVADIEVQLREQLAPARDAEMVADVRVLGAIGVVETTHPVNMAALQKFFVEQGVWIRPFGKLIYLMPPYIILPQQLQRLTAAVNRAVQDETFFCQ |
| 7117 | sp|P78410|BT3A2\_HUMAN | MKMASSLAFLLLNFHVSLLLVQLLTPCSAQFSVLGPSGPILAMVGEDADLPCHLFPTMSAETMELKWVSSSLRQVVNVYADGKEVEDRQSAPYRGRTSILRDGITAGKAALRIHNVTASDSGKYLCYFQDGDFYEKALVELKVAALGSNLHVEVKGYEDGGIHLECRSTGWYPQPQIQWSNAKGENIPAVEAPVVADGVGLYEVAASVIMRGGSGEGVSCIIRNSLLGLEKTASISIADPFFRSAQPWIAALAGTLPILLLLLAGASYFLWRQQKEITALSSEIESEQEMKEMGYAATEREISLRESLQEELKRKKIQYLTRGEESSSDTNKSA |
| 7118 | sp|P17213|BPI\_HUMAN | MRENMARGPCNAPRWASLMVLVAIGTAVTAAVNPGVVVRISQKGLDYASQQGTAALQKELKRIKIPDYSDSFKIKHLGKGHYSFYSMDIREFQLPSSQISMVPNVGLKFSISNANIKISGKWKAQKRFLKMSGNFDLSIEGMSISADLKLGSNPTSGKPTITCSSCSSHINSVHVHISKSKVGWLIQLFHKKIESALRNKMNSQVCEKVTNSVSSELQPYFQTLPVMTKIDSVAGINYGLVAPPATTAETLDVQMKGEFYSENHHNPPPFAPPVMEFPAAHDRMVYLGLSDYFFNTAGLVYQEAGVLKMTLRDDMIPKESKFRLTTKFFGTFLPEVAKKFPNMKIQIHVSASTPPHLSVQPTGLTFYPAVDVQAFAVLPNSSLASLFLIGMHTTGSMEVSAESNRLVGELKLDRLLLELKHSNIGPFPVELLQDIMNYIVPILVLPRVNEKLQKGFPLPTPARVQLYNVVLQPHQNFLLFGADVVYK |
| 7119 | sp|Q8BKX1|BAIP2\_MOUSE | MSLSRSEEMHRLTENVYKTIMEQFNPSLRNFIAMGKNYEKALAGVTFAAKGYFDALVKMGELASESQGSKELGDVLFQMAEVHRQIQNQLEETLKSFHNELLTQLEQKVELDSRYLSAALKKYQTEQRSKGDALDKCQAELKKLRKKSQGSKNPQKYSDKELQYIDAISNKQGELENYVSDGYKTALTEERRRFCFLVEKQCAVAKNSAAYHSKGKELLAQKLPLWQQACADPNKIPDRAVQLMQQMANSNGSILPSALSASKSNLVISDPIPGAKPLPVPPELAPFVGRMSAQENVPVMNGVAGPDSEDYNPWADRKAAQPKSLSPPQSQSKLSDSYSNTLPVRKSVTPKNSYATTENKTLPRSSSMAAGLERNGRMRVKAIFSHAAGDNSTLLSFKEGDLITLLVPEARDGWHYGESEKTKMRGWFPFSYTRVLDSDGSDRLHMSLQQGKSSSTGNLLDKDDLALPPPDYGTSSRAFPTQTAGTFKQRPYSVAVPAFSQGLDDYGARSVSRNPFANVHLKPTVTNDRSAPLLS |
| 7120 | sp|O54904|B3GT1\_MOUSE | MASKVSCLYVLTVVCWASALWYLSITRPTSSYTGSKPFSHLTVARKNFTFGNIRTRPINPHSFEFLINEPNKCEKNIPFLVILISTTHKEFDARQAIRETWGDENNFKGIKIATLFLLGKNADPVLNQMVEQESQIFHDIIVEDFIDSYHNLTLKTLMGMRWVATFCSKAKYVMKTDSDIFVNMDNLIYKLLKPSTKPRRRYFTGYVINGGPIRDVRSKWYMPRDLYPDSNYPPFCSGTGYIFSADVAELIYKTSLHTRLLHLEDVYVGLCLRKLGIHPFQNSGFNHWKMAYSLCRYRRVITVHQISPEEMHRIWNDMSSKKHLRC |
| 7121 | sp|Q9M367|BECN1\_ARATH | MRKEEIPDKSRTIPIDPNLPKWVCQNCHHSLTIVGVDSYAGKFFNDPPPSATQGSSIHGANSVLGSTRMDNSFVVLPRHKPPQSQGIPPRPRGASSPQPDATQSGKAMEESFVVVYKSEPVSDSGGSHNLSLEVGQNGPLHSNTSGFNATINVLTRAFDIARTQTQVEQPLCLECMRVLSDKLEKEVEDVTRDVEAYEACVQRLEGETQDVLSEADFLKEKKKIEEEERKLVAAIEETEKQNAEVNHQLKELEFKGNRFNELEDRYWQEFNNFQFQLIAHQEERDAILAKIEVSQAHLELLNKTNVLIDAFPIRNDGEFGTINNFRLGRLPAIKVEWDEINAAWGQACLLLHTMCNYFRPKFQCQVKIQPMGSYPRIVDSNNETYELFGPVNLFWSTRYDKAMTLYLMCLKDFADFANSKDQENNIPPDNCLNLPYKIEKDKVLGYSITQSFNKQESWTKALKYTLCNLKWALYWFVGNTNFQPLSATVSLPSNISAAGSLYAKRGPDSSKPSCKKT |
| 7122 | sp|Q7L4P6|BEND5\_HUMAN | MYAFVRFLEDNVCYALPVSCVRDFSPRSRLDFDNQKVYAVYRGPEELGAGPESPPRAPRDWGALLLHKAQILALAEDKSDLENSVMQKKIKIPKLSLNHVEEDGEVKDYGEEDLQLRHIKRPEGRKPSEVAHKSIEAVVARLEKQNGLSLGHSTCPEEVFVEASPGTEDMDSLEDAVVPRALYEELLRNYQQQQEEMRHLQQELERTRRQLVQQAKKLKEYGALVSEMKELRDLNRRLQDVLLLRLGSGPAIDLEKVKSECLEPEPELRSTFSEEANTSSYYPAPAPVMDKYILDNGKVHLGSGIWVDEEKWHQLQVTQGDSKYTKNLAVMIWGTDVLKNRSVTGVATKKKKDAVPKPPLSPHKLSIVRECLYDRIAQETVDETEIAQRLSKVNKYICEKIMDINKSCKNEERREAKYNLQ |
| 7123 | sp|Q8VY26|CCD8\_ARATH | MASLITTKAMMSHHHVLSSTRITTLYSDNSIGDQQIKTKPQVPHRLFARRIFGVTRAVINSAAPSPLPEKEKVEGERRCHVAWTSVQQENWEGELTVQGKIPTWLNGTYLRNGPGLWNIGDHDFRHLFDGYSTLVKLQFDGGRIFAAHRLLESDAYKAAKKHNRLCYREFSETPKSVIINKNPFSGIGEIVRLFSGESLTDNANTGVIKLGDGRVMCLTETQKGSILVDHETLETIGKFEYDDVLSDHMIQSAHPIVTETEMWTLIPDLVKPGYRVVRMEAGSNKREVVGRVRCRSGSWGPGWVHSFAVTENYVVIPEMPLRYSVKNLLRAEPTPLYKFEWCPQDGAFIHVMSKLTGEVVASVEVPAYVTFHFINAYEEDKNGDGKATVIIADCCEHNADTRILDMLRLDTLRSSHGHDVLPDARIGRFRIPLDGSKYGKLETAVEAEKHGRAMDMCSINPLYLGQKYRYVYACGAQRPCNFPNALSKVDIVEKKVKNWHEHGMIPSEPFFVPRPGATHEDDGVVISIVSEENGGSFAILLDGSSFEEIARAKFPYGLPYGLHGCWIPKD |
| 7124 | sp|Q8NDB2|BANK1\_HUMAN | MLPAAPGKGLGSPDPAPCGPAPPGNTKDIIMIYEEDAEEWALYLTEVFLHVVKREAILLYRLENFSFRHLELLNLTSYKCKLLILSNSLLRDLTPKKCQFLEKILHSPKSVVTLLCGVKSSDQLYELLNISQSRWEISTEQEPEDYISVIQSIIFKDSEDYFEVNIPTDLRAKHSGEISERKEIEELSEASRNTIPLAVVLPTEIPCENPGEIFIILRDEVIGDTVEVEFTSSNKRIRTRPALWNKKVWCMKALEFPAGSVHVNVYCDGIVKATTKIKYYPTAKAKECLFRMADSGESLCQNSIEELDGVLTSIFKHEIPYYEFQSLQTEICSQNKYTHFKELPTLLHCAAKFGLKNLAIHLLQCSGATWASKMKNMEGSDPAHIAERHGHKELKKIFEDFSIQEIDINNEQENDYEEDIASFSTYIPSTQNPAFHHESRKTYGQSADGAEANEMEGEGKQNGSGMETKHSPLEVGSESSEDQYDDLYVFIPGADPENNSQEPLMSSRPPLPPPRPVANAFQLERPHFTLPGTMVEGQMERSQNWGHPGVRQETGDEPKGEKEKKEEEKEQEEEEDPYTFAEIDDSEYDMILANLSIKKKTGSRSFIINRPPAPTPRPTSIPPKEETTPYIAQVFQQKTARRQSDDDKFCGLPKKQDRARIESPAFSTLRGCLTDGQEELILLQEKVKNGKMSMDEALEKFKHWQMGKSGLEMIQQEKLRQLRDCIIGKRPEEENVYNKLTIVHHPGGKETAHNENKFYNVHFSNKLPARPQVEKEFGFCCKKDH |
| 7125 | sp|Q9BXL6|CAR14\_HUMAN | MGELCRRDSALTALDEETLWEMMESHRHRIVRCICPSRLTPYLRQAKVLCQLDEEEVLHSPRLTNSAMRAGHLLDLLKTRGKNGAIAFLESLKFHNPDVYTLVTGLQPDVDFSNFSGLMETSKLTECLAGAIGSLQEELNQEKGQKEVLLRRCQQLQEHLGLAETRAEGLHQLEADHSRMKREVSAHFHEVLRLKDEMLSLSLHYSNALQEKELAASRCRSLQEELYLLKQELQRANMVSSCELELQEQSLRTASDQESGDEELNRLKEENEKLRSLTFSLAEKDILEQSLDEARGSRQELVERIHSLRERAVAAERQREQYWEEKEQTLLQFQKSKMACQLYREKVNALQAQVCELQKERDQAYSARDSAQREISQSLVEKDSLRRQVFELTDQVCELRTQLRQLQAEPPGVLKQEARTREPCPREKQRLVRMHAICPRDDSDCSLVSSTESQLLSDLSATSSRELVDSFRSSSPAPPSQQSLYKRVAEDFGEEPWSFSSCLEIPEGDPGALPGAKAGDPHLDYELLDTADLPQLESSLQPVSPGRLDVSESGVLMRRRPARRILSQVTMLAFQGDALLEQISVIGGNLTGIFIHRVTPGSAADQMALRPGTQIVMVDYEASEPLFKAVLEDTTLEEAVGLLRRVDGFCCLSVKVNTDGYKRLLQDLEAKVATSGDSFYIRVNLAMEGRAKGELQVHCNEVLHVTDTMFQGCGCWHAHRVNSYTMKDTAAHGTIPNYSRAQQQLIALIQDMTQQCTVTRKPSSGGPQKLVRIVSMDKAKASPLRLSFDRGQLDPSRMEGSSTCFWAESCLTLVPYTLVRPHRPARPRPVLLVPRAVGKILSEKLCLLQGFKKCLAEYLSQEEYEAWSQRGDIIQEGEVSGGRCWVTRHAVESLMEKNTHALLDVQLDSVCTLHRMDIFPIVIHVSVNEKMAKKLKKGLQRLGTSEEQLLEAARQEEGDLDRAPCLYSSLAPDGWSDLDGLLSCVRQAIADEQKKVVWTEQSPR |
| 7126 | sp|Q02972|CADH8\_ARATH | MGKVLQKEAFGLAAKDNSGVLSPFSFTRRETGEKDVRFKVLFCGICHSDLHMVKNEWGMSTYPLVPGHEIVGVVTEVGAKVTKFKTGEKVGVGCLVSSCGSCDSCTEGMENYCPKSIQTYGFPYYDNTITYGGYSDHMVCEEGFVIRIPDNLPLDAAAPLLCAGITVYSPMKYHGLDKPGMHIGVVGLGGLGHVGVKFAKAMGTKVTVISTSEKKRDEAINRLGADAFLVSRDPKQIKDAMGTMDGIIDTVSATHSLLPLLGLLKHKGKLVMVGAPEKPLELPVMPLIFERKMVMGSMIGGIKETQEMIDMAGKHNITADIELISADYVNTAMERLEKADVRYRFVIDVANTLKPNPNL |
| 7127 | sp|Q80VC9|CAMP3\_MOUSE | MVEAAPAGSGPLRRTFLVPEIKSLDQYDFSRAKAAASLAWVLRAAFGGAEHVPPELWEPFYTDQYAQEHVKPPVTRLLLSAELYCRAWRQALPQLEPSPSPSALLALLARRGTVPSLPEHPVREADLKHQPILMGAHLAVIDALMVAFSFEWTKTLPGPLALSSLEHKLLFWVDTTVRRLQEKTEQEAAQRASPAAPLDGASPAQPSIRYRKDRAIARRAPCFPNVTTLQDLASGAALAATIHCYCPQLLRLEEVCLKDPMSVADSLYNLQLVQDFCASHLPRGCPLSLEDLLYVPPPLKVNLVVLLAEMYMCFEVLKPDFVQAKDLPDGHAVSPRNTETVPSQNNSGSSSPVFNFRHPLLSPGGPQSPLRGSTGSLKSSPSMSHMEALGKAWNRQLSRPLSQAVSFSTPFGLDSDVDVVMGDPVLLRSVSSDSLGPPRPVSTSSRNSAQPAPESGDLPTIEEALQIIHSAEPRLLPDGAADGSFYLHSPEGLSKPPLSPYPPEGASKPLSDRLNKAPIYISHPENPSKSSPCSTGEILKPPPPSEGSPKAVASSPAANNSEVKMTSFAERKKQLVKAEAESGLGSPTSTPVAPEALSSEMSELGARLEEKRRAIEAQKRRIEAIFAKHRQRLGKSAFLQVQPREAAGEAEEEAELGSVPGGERPAGEGQGEPSLRHKSVTFSPDLGPVPPEGLGDYNRAVSKLSAALSSLQRDMQRLTDQQQRLLAPPEAPGPAPPPAAWVIPGPATGPKAASPSPARRAPAARRSPGPGPSPTPRSPKHARPAELKLAPLTRVLTPPHDVDSLPHLRKFSPSQVPVQTRSSILLSEGTPPEEPTTKPALIEIPLASLGEPAADEEGDGSPPGAEDSLEEEASSEGEPRSGLGFFYKDEDKPEDEMAQKRASLLERQQRRVEEARRRKQWQEAEKEQKREEAARLAQEAPGLAFTTPVVASAAPVATLAPTTRAMAPAEEEVGPRRGDFTRLEYERRAQLKLMDDLDKVLRPRASGTGGPGRGGRRATRPRSGCCDDSALARSPARGLLGSRLSKVYSQSTLSLSTVANEAPNNLGVKRPTSRAPSPSGLMSPSRLPGSRERDWENGSNASSPASVPEYTGPRLYKEPSAKSNKFIIHNALSHCCLAGKVNEPQKNRILEEIEKSKANHFLILFRDSSCQFRALYTLSGETEELSRLAGYGPRTVTPAMVEGIYKYNSDRKRFTQIPAKTMSMSVDAFTIQGHLWQSKKPTTPKKGGGTPK |
| 7128 | sp|Q9SG12|CAMK6\_ARATH | MGHCYSRNISTVDDDDEIPSATAQLPHRSHQNHHQTSSSSSIPQSPATSEVNPYNISPFQSPLPAGVAPSPARTPGRKFKWPFPPPSPAKPIMAALRRRRGTAPHPRDGPIPEDSEAGGSGGGIGERLDKNFGFAKNFEGKYELGREVGRGHFGHTCWAKAKKGKIKGQTVAVKIISKSKMTSALSIEDVRREVKLLKALSGHSHMVKFYDVFEDSDNVFVVMELCEGGELLDSILARGGRYPEAEAKRILVQILSATAFFHLQGVVHRDLKPENFLFTSKNEDAVLKVIDFGLSDYARFDQRLNDVVGSAYYVAPEVLHRSYSTEADIWSIGVISYILLCGSRPFYGRTESAIFRCVLRANPNFDDLPWPSISPIAKDFVKRLLNKDHRKRMTAAQALAHPWLRDENPGLLLDFSIYKLVKSYIRASPFRRAALKSLSKAIPEEELVFLKAQFMLLEPEDGGLHLHNFTTALTRYATDAMIESRLPDILNMMQPLAHKKLDFEEFCAASVSVYQLEALEEWEQIATVAFEHFESEGSRAISVQELAEEMSLGPNAYPLLKDWIRSLDGKLNFLGYAKFLHGVTVRSSSSRPMR |
| 7129 | sp|Q14781|CBX2\_HUMAN | MEELSSVGEQVFAAECILSKRLRKGKLEYLVKWRGWSSKHNSWEPEENILDPRLLLAFQKKEHEKEVQNRKRGKRPRGRPRKLTAMSSCSRRSKLKEPDAPSKSKSSSSSSSSTSSSSSSDEEDDSDLDAKRGPRGRETHPVPQKKAQILVAKPELKDPIRKKRGRKPLPPEQKATRRPVSLAKVLKTARKDLGAPASKLPPPLSAPVAGLAALKAHAKEACGGPSAMATPENLASLMKGMASSPGRGGISWQSSIVHYMNRMTQSQAQAASRLALKAQATNKCGLGLDLKVRTQKGELGMSPPGSKIPKAPSGGAVEQKVGNTGGPPHTHGASRVPAGCPGPQPAPTQELSLQVLDLQSVKNGMPGVGLLARHATATKGVPATNPAPGKGTGSGLIGASGATMPTDTSKSEKLASRAVAPPTPASKRDCVKGSATPSGQESRTAPGEARKAATLPEMSAGEESSSSDSDPDSASPPSTGQNPSVSVQTSQDWKPTRSLIEHVFVTDVTANLITVTVKESPTSVGFFNLRHY |
| 7130 | sp|P47755|CAZA2\_HUMAN | MADLEEQLSDEEKVRIAAKFIIHAPPGEFNEVFNDVRLLLNNDNLLREGAAHAFAQYNLDQFTPVKIEGYEDQVLITEHGDLGNGKFLDPKNRICFKFDHLRKEATDPRPCEVENAVESWRTSVETALRAYVKEHYPNGVCTVYGKKIDGQQTIIACIESHQFQAKNFWNGRWRSEWKFTITPSTTQVVGILKIQVHYYEDGNVQLVSHKDIQDSLTVSNEVQTAKEFIKIVEAAENEYQTAISENYQTMSDTTFKALRRQLPVTRTKIDWNKILSYKIGKEMQNA |
| 7131 | sp|P22002|CAC1C\_RAT | MIRAFAQPSTPPYQPLSSCLSEDTERKFKGKVVHEAQLNCFYISPGGSNYGSPRPAHANMNANAAAGLAPEHIPTPGAALSWLAAIDAARQAKLMGSAGNATISTVSSTQRKRQQYGKPKKQGGTTATRPPRALLCLTLKNPIRRACISIVEWKPFEIIILLTIFANCVALAIYIPFPEDDSNATNSNLERVEYLFLIIFTVEAFLKVIAYGLLFHPNAYLRNGWNLLDFIIVVVGLFSAILEQATKADGANALGGKGAGFDVKALRAFRVLRPLRLVSGVPSLQVVLNSIIKAMVPLLHIALLVLFVIIIYAIIGLELFMGKMHKTCYNQEGIIDVPAEEDPSPCALETGHGRQCQNGTVCKPGWDGPKHGITNFDNFAFAMLTVFQCITMEGWTDVLYWMQDAMGYELPWVYFVSLVIFGSFFVLNLVLGVLSGEFSKEREKAKARGDFQKLREKQQLEEDLKGYLDWITQAEDIDPENEDEGMDEDKPRNMSMPTSETESVNTENVAGGDIEGENCGARLAHRISKSKFSRYWRRWNRFCRRKCRAAVKSNVFYWLVIFLVFLNTLTIASEHYNQPHWLTEVQDTANKALLALFTAEMLLKMYSLGLQAYFVSLFNRFDCFIVCGGILETILVETKIMSPLGISCWRCVRLLRIFKITRYWNSLSNLVASLLNSLRSIASLLLLLFLFIIIFSLLGMQLFGGKFNFDEMQTRRSTFDNFPQSLLTVFQILTGEDWNSVMYDGIMAYGGPSFPGMLVCIYFIILFISPNYILLNLFLAIAVDNLADAESLTSAQKEEEEEKERKKLARTASPEKKQEVMEKPAVEESKEEKIELKSITADGESPPTTKINMDDLQPSENEDKSPHSNPDTAGEEDEEEPEMPVGPRPRPLSELHLKEKAVPMPEASAFFIFSPNNRFRLQCHRIVNDTIFTNLILFFILLSSISLAAEDPVQHTSFRNHILFYFDIVFTTIFTIEIALKMTAYGAFLHKGSFCRNYFNILDLLVVSVSLISFGIQSSAINVVKILRVLRVLRPLRINRAKGLKHVVQCVFVAIRTIGNIVIVTTLLQFMFACIGVQLFKGKLYTCSDSSKQTEAESKGNYITYKTGEVDHPIIQPRSWENSKFDFDNVLAAMMALFTVSTFEGWPELLYRSIDSHTEDKGPIYNYRVEISIFFIIYIIIIAFFMMNIFVGFVIVTFQEQGEQEYKNCELDKNQRQCVEYALKARPLPRYIPKNQHQYKVWYVVNSTYFEYLMFVLILLNTICLAMQHYGQSCLFKIAMNILNMLFTGLFTVEMILKLIAFKPKHYFCDAWNTFDALIVVGSIVDIAITEVHPAEHTQCSPSMSAEENSRISITFFRLFRVMRLVKLLSRGEGIRTLLWTFIKSFQALPYVALLIVMLFFIYAVIGMQVFGKIALNDTTEINRNNNFQTFPQAVLLLFRCATGEAWQDIMLACMPGKKCAPESEPSNSTEGETPCGSSFAVFYFISFYMLCAFLIINLFVAVIMDNFDYLTRDWSILGPHHLDEFKRIWAEYDPEAKGRIKHLDVVTLLRRIQPPLGFGKLCPHRVACKRLVSMNMPLNSDGTVMFNATLFALVRTALRIKTEGNLEQANEELRAIIKKIWKRTSMKLLDQVVPPAGDDEVTVGKFYATFLIQEYFRKFKKRKEQGLVGKPSQRNALSLQAGLRTLHDIGPEIRRAISGDLTAEEELDKAMKEAVSAASEDDIFRRAGGLFGNHVSYYQSDSRSNFPQTFATQRPLHINKTGNNQADTESPSHEKLVDSTFTPSSYSSTGSNANINNANNTALGRFPHPAGYSSTVSTVEGHGPPLSPAVRVQEAAWKLSSKRCHSRESQGATVSQDMFPDETRSSVRLSEEVEYCSEPSLLSTDILSYQDDENRQLTCLEEDKREIQPCPKRSFLRSASLGRRASFHLECLKRQKDQGGDISQKTALPLHLVHHQALAVAGLSPLLQRSHSPSTFPRPRPTPPVTPGSRGRPLQPIPTLRLEGAESSEKLNSSFPSIHCSSWSEETTACSGGSSMARRARPVSLTVPSQAGAPGRQFHGSASSLVEAVLISEGLGQFAQDPKFIEVTTQELADACDMTIEEMENAADNILSGGAQQSPNGTLLPFVNCRDPGQDRAVVPEDESCVYALGRGRSEEALPDSRSYVSNL |
| 7132 | sp|P47844|CBR1\_RABIT | MPSDRRVALVTGANKGVGFAITRALCRLFSGDVLLTAQDEAQGQAAVQQLQAEGLSPRFHQLDITDLQSIRALRDFLRRAYGGLNVLVNNAVIAFKMEDTTPFHIQAEVTMKTNFDGTRDVCTELLPLMRPGGRVVNVSSMTCLRALKSCSPELQQKFRSETITEEELVGLMKKFVEDTKKGVHQTEGWPDTAYGVTKMGVTVLSRIQARHLSEHRGGDKILVNACCPGWVRTDMGGPNATKSPEEGAETPVYLALLPPDAEGPHGQFVMDKKVEQW |
| 7133 | sp|P16259|CAN3\_RAT | MPTVISPTVAPRTGAEPRSPGPVPHPAQGKTTEAGGGHPGGIYSAIISRNFPIIGVKEKTFEQLHKKCLEKKVLYLDPEFPPDETSLFYSQKFPIQFVWKRPPEICENPRFIIGGANRTDICQGDLGDCWLLAAIACLTLNERLLFRVIPHDQSFTENYAGIFHFQFWRYGDWVDVVIDDCLPTYNNQLVFTKSNHRNEFWSALLEKAYAKLHGSYEALKGGNTTEAMEDFTGGVTEFFEIKDAPSDMYKIMRKAIERGSLMGCSIDDGTNMTYGTSPSGLNMGELIARMVRNMDNSLLRDSDLDPRASDDRPSRTIVPVQYETRMACGLVKGHAYSVTGLEEALFKGEKVKLVRLRNPWGQVEWNGSWSDGWKDWSFVDKDEKARLQHQVTEDGEFWMSYDDFVYHFTKLEICNLTADALESDKLQTWTVSVNEGRWVRGCSAGGCRNFPDTFWTNPQYRLKLLEEDDDPDDSEVICSFLVALMQKNRRKDRKLGANLFTIGFAIYEVPKEMHGNKQHLQKDFFLYNASKARSKTYINMREVSQRFRLPPSEYVIVPSTYEPHQEGEFILRVFSEKRNLSEEAENTISVDRPVKKKKNKPIIFVSDRANSNKELGVDQEAEEGKDKTGPDKQGESPQPRPGHTDQESEEQQQFRNIFRQIAGDDMEICADELKNVLNTVVNKHKDLKTQGFTLESCRSMIALMDTDGSGRLNLQEFHHLWKKIKAWQKIFKHYDTDHSGTINSYEMRNAVNDAGFHLNSQLYDIITMRYADKHMNIDFDSFICCFVRLEGMFRAFHAFDKDGDGIIKLNVLEWLQLTMYA |
| 7134 | sp|P55212|CASP6\_HUMAN | MSSASGLRRGHPAGGEENMTETDAFYKREMFDPAEKYKMDHRRRGIALIFNHERFFWHLTLPERRGTCADRDNLTRRFSDLGFEVKCFNDLKAEELLLKIHEVSTVSHADADCFVCVFLSHGEGNHIYAYDAKIEIQTLTGLFKGDKCHSLVGKPKIFIIQACRGNQHDVPVIPLDVVDNQTEKLDTNITEVDAASVYTLPAGADFLMCYSVAEGYYSHRETVNGSWYIQDLCEMLGKYGSSLEFTELLTLVNRKVSQRRVDFCKDPSAIGKKQVPCFASMLTKKLHFFPKSN |
| 7135 | sp|P18122|CATA1\_MAIZE | MDPYKHRPSSGSNSSFWTTNSGAPVWNNNSALTVGQRGPILLEDYHLIEKLAQFDRERIPERVVHARGASAKGFFEVTHDVSHLTCADFLRAPGVQTPVIVRFSTVVHERGSPETLRDPRGFAVKFYTREGNFDLVGNNMPVFFIRDGMKFPDMVHAFKPNPKTNLQENWRIVDFFSHHPESLHMFTFLFDDVGIPLNYRHMEGFGVNTYSLINRDGKPHLVKFHWKPTCGVKCLLDNEAVTVGGTCHSHATKDLYDSIAAGNYPEWKLYIQTIDLDHEDKFDFDPLDVTKTWPEDIIPLQPVGRMVLNKNVDNFFAENEQIAFCPAISVPAIHYSDDKLLQTRIFSYADTQRHRLGPNYLMLPVNAPKCAHHNNHHDGFMNFMHRDEEVNYFPSRFDPARHAEKVPIPPRVLTRCREKCIIQKENNFKQAGERYRSFDPARQDRFIQRWVDALTHPRVTHEHRTIWISYWSQCDAALGQKLPSRLNLKPSM |
| 7136 | sp|P07688|CATB\_BOVIN | MWRLLATLSCLLVLTSARSSLYFPPLSDELVNFVNKQNTTWKAGHNFYNVDLSYVKKLCGAILGGPKLPQRDAFAADVVLPESFDAREQWPNCPTIKEIRDQGSCGSCWAFGAVEAISDRICIHSNGRVNVEVSAEDMLTCCGGECGDGCNGGFPSGAWNFWTKKGLVSGGLYNSHVGCRPYSIPPCEHHVNGSRPPCTGEGDTPKCSKTCEPGYSPSYKEDKHFGCSSYSVANNEKEIMAEIYKNGPVEGAFSVYSDFLLYKSGVYQHVSGEIMGGHAIRILGWGVENGTPYWLVGNSWNTDWGDNGFFKILRGQDHCGIESEIVAGMPCTHQY |
| 7137 | sp|Q8C3Q9|CASP9\_MOUSE | MDEADRQLLRRCRVRLVSELQVAELWDALLSRELFTRDMIEDIQQAGSGSRRDQARQLVTDLETRGRQALPLFISCLEDTGQGTLASLLQSGRQAAKQDPEAVKPLDHLVPVVLGPMGLTAKEQRVVKLDPSQPAVGNLTPVVLGPEELWPARLKPEVLRPETPRPVDIGSGGAHDVCVPGKIRGHADMAYTLDSDPCGHCLIINNVNFCPSSGLGTRTGSNLDRDKLEHRFRWLRFMVEVKNDLTAKKMVTALMEMAHRNHRALDCFVVVILSHGCQASHLQFPGAVYGTDGCSVSIEKIVNIFNGSGCPSLGGKPKLFFIQACGGEQKDHGFEVACTSSQGRTLDSDSEPDAVPYQEGPRPLDQLDAVSSLPTPSDILVSYSTFPGFVSWRDKKSGSWYIETLDGILEQWARSEDLQSLLLRVANAVSAKGTYKQIPGCFNFLRKKLFFKTS |
| 7138 | sp|Q8CDK2|CBPC2\_MOUSE | MNVLLEMAFLSQTLPDPYEDFIHHHLQYYGYFKAQKSSLPNSGTHQRVWRNSPRYMLNGSFGERDDFISDSLEKEMLLWPTCLSSTGHAHIDAVNRDSLLLSSPLLRTRQLIFDELDEASPRLREPRELFSCFSSRGPLQAPRWPIECEVIKENIHHIEWVPHQPEYFYQPTGSEKVPEIVGEEQGTVVYQLDSVPAEGTYFTSSRIGGKRGTIKELAVTLQGPDDNTLLFESRFESGNLQKAVRVGIYEYELTLRTDLYTDKHTQWFYFRVQNTRKDATYRFTIVNLLKPKSLYAVGMKPLMYSQLDATIYNIGWRREGREIKYYKNNVDDGQQPLYCLTWTTQFPHDQDTCFFAHFYPYTYTDLQCYLLSVANNPIQSQFCKLRALCRSLAGNTVYLLTITNPSRTPQEAAAKKAVVLSARVHPGESNSSWIMNGFLDFILSNSPDAQLLRDIFVFKVIPMLNPDGVIVGNYRCSLAGRDLNRHYKTVLKDSFPCIWYTKNMIKRLLEEREVLLYCDFHGHSRKNNIFLYGCHSNNRKHWLHERVFPLMLSKNAPDKFSFDSCNFKVQKCKEGTGRVVMWRMGIINSYTMESTFGGSTLGSKRDTHFTIEDLKSLGYHVCDTLLDFCDPDQTKYTQCLQELKELLQQEINKKLNNFGQDMDLEGNWSDIPLSDIESSTSGSDSSLSDGPPIRLLNIVADEPNQKTVLKNPKKKRLQTRKQRNEQYQKSYLMRELKLTENAPGRARFVSTLQKQPTFLKSPESPSPSVRRSENPRLNETQLSGREKGTSLDPPLTSPKNKERIQSKKPGFTASCSPKRSTNSSLGPAPDVKPNWSKTRYSATRKDHATMAVYPSLHIYTYP |
| 7139 | sp|Q5R7F0|CHP1\_PONAB | MGSRASTLLRDEELEEIKKETGFSHSQITRLYSRFTSLDKGENGTLSREDFQRIPELAINPLGDRIINAFFPEGEDQVNFRGFMRTLAHFRPIEDNEKSKDVNGPEPLNSRSNKLHFAFRLYDLDKDEKISRDELLQVLRMMVGVNISDEQLGSIADRTIQEADQDGDSAISFTEFVKVLEKVDVEQKMSIRFLH |
| 7140 | sp|Q4R6K8|CALR\_MACFA | MLLSVPLLLGLLGLAAAEPAVYFKEQFLDGDGWTSRWIESKHKSDFGKFVLSSGKFYGDEEKDKGLQTSQDARFYALSASFEPFSNKGQTLVVQFTVKHEQNIDCGGGYVKLFPNSLDQTDMHGDSEYNIMFGPDICGPGTKKVHVIFNYKGKNVLINKDIRCKDDEFTHLYTLIVRPDNTYEVKIDNSQVESGSLEDDWDFLPPKKIKDPDASKPEDWDERAKIDDPTDSKPEDWDKPEHIPDPDAKKPEDWDEEMDGEWEPPVIQNPEYKGEWKPRQIDNPDYKGTWIHPEIDNPEYSPDPSIYAYDNFGVLGLDLWQVKSGTIFDNFLITNDEAYAEEFGNETWGVTKAAEKQMKDKQDEEQRLKEEEEDKKRKEEEEAEDKEDDEDKDEDEEDEEDKEEDEEEDVPGQAKDEL |
| 7141 | sp|P0A6F5|CH60\_ECOLI | MAAKDVKFGNDARVKMLRGVNVLADAVKVTLGPKGRNVVLDKSFGAPTITKDGVSVAREIELEDKFENMGAQMVKEVASKANDAAGDGTTTATVLAQAIITEGLKAVAAGMNPMDLKRGIDKAVTAAVEELKALSVPCSDSKAIAQVGTISANSDETVGKLIAEAMDKVGKEGVITVEDGTGLQDELDVVEGMQFDRGYLSPYFINKPETGAVELESPFILLADKKISNIREMLPVLEAVAKAGKPLLIIAEDVEGEALATLVVNTMRGIVKVAAVKAPGFGDRRKAMLQDIATLTGGTVISEEIGMELEKATLEDLGQAKRVVINKDTTTIIDGVGEEAAIQGRVAQIRQQIEEATSDYDREKLQERVAKLAGGVAVIKVGAATEVEMKEKKARVEDALHATRAAVEEGVVAGGGVALIRVASKLADLRGQNEDQNVGIKVALRAMEAPLRQIVLNCGEEPSVVANTVKGGDGNYGYNAATEEYGNMIDMGILDPTKVTRSALQYAASVAGLMITTECMVTDLPKNDAADLGAAGGMGGMGGMGGMM |
| 7142 | sp|Q9FN48|CAS\_ARATH | MAMAEMATKSSLSAKLTLPSSSTKKTLSLRQVSVSLPTSTSISLLSLFASPPHEAKAAVSIPKDQIVSSLTEVEKTINQVQETGSSVFDATQRVFQVVGDALKPALDTALPIAKQAGEEAMKLASPAFSEASKKAQEAMQSSGFDSEPVFNAAKTVTDVAQQTSKAIEDAKPIASSTMDTISSADPSVIVVAAGAAFLAYLLLPPVFSAISFNFRGYKGDLTPAQTLDLLCTKNYLMVDIRSEKDKEKAGIPRLPSNAKNRVISIPLEELPNKVKGIVRNSKRVEAEIAALKISYLKKINKGSNIIILDSYTDSAKIVAKTLKVLGYKNCYIVTDGFSGGRGWLQSRLGTDSYNFSFAQVLSPSRIIPAASRSFGTRSGTKFLPSSD |
| 7143 | sp|P27798|CALR\_CAEEL | MKSLCLLAIVAVVSAEVYFKEEFNDASWEKRWVQSKHKDDFGAFKLSAGKFFDVESRDQGIQTSQDAKFYSRAAKFDKDFSNKGKTLVIQYTVKHEQGIDCGGGYVKVMRADADLGDFHGETPYNVMFGPDICGPTRRVHVILNYKGENKLIKKEITCKSDELTHLYTLILNSDNTYEVKIDGESAQTGSLEEDWDLLPAKKIKDPDAKKPEDWDEREYIDDAEDAKPEDWEKPEHIPDPDAKKPEDWDDEMDGEWEPPMIDNPEYKGEWKPKQIKNPAYKGKWIHPEIENPEYTPDDELYSYESWGAIGFDLWQVKSGTIFDNIIITDSVEEAEAHAAETFDKLKTVEKEKKEKADEETRKAEEEARKKAEEEKEAKKDDDEEEKEEEEGHDEL |
| 7144 | sp|Q9QYP2|CELR2\_RAT | EDQVSYTLAITARDNGIPQKSDTTYLEILVNDVNDNAPQFLRDSYQGSVYEDVPPFTSVLQISATDRDSGLNGRVFYTFQGGDDGDGDFIVESTSGIVRTLRRLDRENVAQYILRAYAVDKGMPPARTPMEVTVTVLDVNDNPPVFEQDEFDVFVEENSPIGLAVARVTATDPDEGTNAQIMYQIVEGNIPEVFQLDIFSGELTALVDLDYEDRPEYILVIQATSAPLVSRATVHVRLLDRNDNPPVLGNFEILFNNYVTNRSSSFPGGAIGRVPAHDPDISDSLTYSFERGNELSLVLLNASTGELRLSRALDNNRPLEAIMSVLVSDGVHSVTAQCSLRVTIITDEMLTHSITLRLEDMSPERFLSPLLGLFIQAVAATLATPPDHVVVFNVQRDTDAPGGHILNVSLSVGQPPGPGGGPPFLPSEDLQERLYLNRSLLTAISAQRVLPFDDNICLREPCENYMRCVSVLRFDSSAPFIASSSVLFRPIHPVGGLRCRCPPGFTGDYCETEVDLCYSRPCGPHGHCRSREGGYTCLCRDGYTGEHCEVSARSGRCTPGVCKNGGTCVNLLVGGFKCDCPSGDFEKPFCQVTTRSFPARSFITFRGLRQRFHFTLALSFATKERDGLLLYNGRFNEKHDFVALEVIQEQVQLTFSAGESTTTVSPFVPGGVSDGQWHTVQLKYYNKPLLGQTGLPQGPSEQKVAVVSVDGCDTGVALRFGAMLGNYSCAAQGTQGGSKKSLDLTGPLLLGGVPDLPESFPVRMRHFVGCMKNLQVDSRHVDMADFIANNGTVPGCPTKKNVCDSNTCHNGGTCVNQWDAFSCECPLGFGGKSCAQEMANPQRFLGSSLVAWHGLSLPISQPWHLSLMFRTRQADGVLLQAVTRGRSTITLQLRAGHVVLSVEGTGLQASSLRLEPGRANDGDWHHAQLSLGASGGPGHAILSFDYGQQKAEGNLGPRLHGLHLSNMTVGGVPGPASSVARGFRGCLQGVRVSETPEGVSSLDPSRGESINVEPGCSWPDPCDSNPCPTNSYCSNDWDSYSCSCDPGYYGDNCTNVCDLNPCEHQSACTRKPSAPHGYICECLPNYLGPYCETRIDQPCPRGWWGHPTCGPCNCDVSKGFDPDCNKTSGECHCKENHYRPPSSPTCLLCDCYPTGSLSRVCDPEDGQCPCKPGVIGRQCDRCDNPFAEVTTNGCEVNYDSCPRAIEAGIWWPRTRFGLPAAAPCPKGSFGTAVRHCDEHRGWLPPNLFNCTSVTFSELKGFAERLQRNESGLDSGRSQRLALLLRNATQHTSGYFGSDVKVAYQLATRLLAHESAQRGFGLSATQDVHFTENLLRVGSALLDAANKRHWELIQQTEGGTAWLLQHYEAYASALAQNMRHTYLSPFTIVTPNIVISVVRLDKGNFAGTKLPRYEALRGERPPDLETTVILPESVFREMPPMVRSAGPGEAQETEELARRQRRHPELSQGEAVASVIIYHTLAGLLPHNYDPDKRSLRVPKRPVINTPVVSISVHDDEELLPRALDKPVTVQFRLLETEERTKPICVFWNHSILVSGTGGWSARGCEVVFRNESHVSCQCNHMTSFAVLMDVSRRENGEILPLKTLTYVALGVTLAALMITFLFLTLLRALRSNQHGIRRNLTAALGLAQLVFLLGINQADLPFACTVIAILLHFLYLCTFSWALLEALHLYRALTEVRDVNASPMRFYYMLGWGVPAFITGLAVGLDPEGYGNPDFCWLSIYDTLIWSFAGPVAFAVSMSVFLYILSARASCAAQRQGFEKKGPVSGLRSSFTVLLLLSATWLLALLSVNSDTLLFHYLFAACNCVQGPFIFLSYVVLSKEVRKALKFACSRKPSPDPALTTKSTLTSSYNCPSPYADGRLYQPYGDSAGSLHSASRSGKSQPSYIPFLLREESTLNPGQVPPGLGDPSGLFMEGQAQQHDPDTDSDSDLSLEDDQSGSYASTHSSDSEEEEEEAAFPGEQGWDSLLGPGAERLPLHSTPKDGGPGSGKVPWPGDFGTTTKENSGSGPLEERPRENGDALTREGSLGPLPGPSTQPHKGILKKKCLPTISEKSSLLRLPLEQGTGSSRGSTASEGSRNGPPPRPPPRQSLQEQLNGVMPIAMSIKAGTVDEDSSGSEFLFFNFLH |
| 7145 | sp|O97703|CD81\_CHLAE | MGVEGCTKCIKYLLFVFNFVFWLAGGVILGVALWLRHDPQTTNLLYLELGDKPAPNTFYVGIYILIAVGAVMMFVGFLGCYGAIQESQCLLGTFFTCLVILFACEVAAGIWGFVNKDQIAKDVKQFYDQALQQAVVDDDANNAKAVVKTFHETLDCCGSSTLAALTTSVLKNNLCPSGSNIISNLLKKDCHQKIDELFSGKLYLIGIAAIVVAVIMIFEMILSMVLCCGIRNSSVY |
| 7146 | sp|P01730|CD4\_HUMAN | MNRGVPFRHLLLVLQLALLPAATQGKKVVLGKKGDTVELTCTASQKKSIQFHWKNSNQIKILGNQGSFLTKGPSKLNDRADSRRSLWDQGNFPLIIKNLKIEDSDTYICEVEDQKEEVQLLVFGLTANSDTHLLQGQSLTLTLESPPGSSPSVQCRSPRGKNIQGGKTLSVSQLELQDSGTWTCTVLQNQKKVEFKIDIVVLAFQKASSIVYKKEGEQVEFSFPLAFTVEKLTGSGELWWQAERASSSKSWITFDLKNKEVSVKRVTQDPKLQMGKKLPLHLTLPQALPQYAGSGNLTLALEAKTGKLHQEVNLVVMRATQLQKNLTCEVWGPTSPKLMLSLKLENKEAKVSKREKAVWVLNPEAGMWQCLLSDSGQVLLESNIKVLPTWSTPVQPMALIVLGGVAGLLLFIGLGIFFCVRCRHRRRQAERMSQIKRLLSEKKTCQCPHRFQKTCSPI |
| 7147 | sp|P25342|CDC10\_YEAST | MDPLSSVQPASYVGFDTITNQIEHRLLKKGFQFNIMVVGQSGLGKSTLINTLFASHLIDSATGDDISALPVTKTTEMKISTHTLVEDRVRLNINVIDTPGFGDFIDNSKAWEPIVKYIKEQHSQYLRKELTAQRERFITDTRVHAILYFLQPNGKELSRLDVEALKRLTEIANVIPVIGKSDTLTLDERTEFRELIQNEFEKYNFKIYPYDSEELTDEELELNRSVRSIIPFAVVGSENEIEINGETFRGRKTRWSAINVEDINQCDFVYLREFLIRTHLQDLIETTSYIHYEGFRARQLIALKENANSRSSAHMSSNAIQR |
| 7148 | sp|P85001|CE290\_DANRE | MPAAADWRLLMGMDPEDLGDEDEKICDLILMVKPRDLKADDSEKMIQLFRISQTLLRMKLDEIKCAYEVVDSAGAEQARIENELKAKVLKLESELEMAQRVMGGGDKHFLRDEIRQLESHLERKEKEVTQLEKEMGKERKSNEELALRAEEAEEKNRKLKREIKQLTRKNEQLQQDIEFYRKEAEQRESLQTKEESNEIQRRLTKANQQLYQCMEELQHAEDMAANLRSENEHLQKNLEESVKEMEKMTDEYNKMKIAVQQTDAIMDQLRKDRDHAKLQVRELTDQIQARVEEDDPVMAAVNAKVEEWKSVLSGKDLEILEYQQMIRDLREKLRTAQMDSDKSNIIALQQAVQERDNQIKMLSEQVEQYTTEMERNAMLIEELKRPLKKDKGHSSDHQRRLEDLSAKLQVAERKVLEAQRAAQLAERDARDKDKELNDTLSRIRLYESGTDGLEAAISEIKECKNQIRVRDREIEGMIKEINQLEMKINNLLDENEDLRERLGLNPKEELDLSEFRRSKILKQRQYKAENQVLLKEIERLEEERLELKQRIRALVKDKGVTVVSNSLLDNSVEEKPVRSLRPSSGSTDDEIKRKNERLQKELSNKEKELELRRSESAQFKAKLNEMLNENKQLEQGMKEILQAIQDTQKKTPTSTGVSIPSLERLVNALEMKYSEGKFDASLHLRTQVDQLTGRNEELRLEMKTAREEAANTLSQLTKANEKIARLESEMESMSKSTGSSIPHKTLALPEEMTPTSAEAINALNEYTVQLLQEIKNKGDSIEQLGSALEEYKRKFAVIRHQQGLLYKEHQSERESWQKERDSFAELKSKLEEQREVDAVKIKEYNHLLETLEKDPSEIRREMAETGRKIVVLRVNEKCLTRRYTTLLELEQHLRKENAKLKEDFTQMQAVVTERIGYLQRFKEMAAFKMASLQKSLDVSVPASELERANKQYTELTIKYRNLLQKDNHLVQKTTSLEHLETENMSLRERIDSINKELEISKEKLHTLEQAFENISTTGGEIIMDKATKAVANSEIVSVSRRITTLEMKELNERQRAEHAQKMYEHLRNSLKQVEERNFELETKFAELTKLNLEAQRIERELRDELADSVSKHISDADRKRITELEKTEANLRIEVSKLREVSDVAKMQVSALDARQQSREKEVESLRRQVLDYQAESDEKALIAKLHQHIVALQLSETTAISRLEATNTRLQKLEAQKLRDEQKLDEQQQALWHARQEGHQRARHLRHTIQALRRQFSGALPLAQQEKFSNTMLHLQEDRARVREDAQIAEEERRKAEGKAQELELKLKGLEELIATLKDAKGAQKVSEWHKKLEDVRLLEMRQSRELNTQREEIKYLKNCVAEQECTISGLEEELVQQNNLLEERQLIWDQREVQLERQLDSYEKQQNEVLNTAQKFEEATGSLPDPNQPLANQLDYALGKIKEHVRTILETKTTCKILEEKLKEKEAALWSSEQNVLSRDKVINELRLRLPAAAEREKLLADLSKQEDSESQPTLKVAHQTINNLQGRLDQKEEVLKKYQNLLGKARQEQEEIAKRHEEEVRALHQKLDVYMDTSLDRFKQTALELIKKPTITVPTSKHLVRLAEMEQTVAEQDNSLSSLSQKLKIVTQELDQQRQVTAAQAMEHAADMARLEDKHAAQMKGLSQEAEELRAQLIQMEKELHYLRTELEAQKEANVRSPSNTMKNLVERLKNQLALKEKQLKALSKALLELRAELTSQAEQQIITNAAQKEEALNVQQIVDKQTKELRACVRDLNEELQLAKDGVRAAKARENSLKEDLETLNKDLQRSQKSQNKLQSEKEALEEHLNELKKKIQRLSSGLQAQVESDGPTVDSLQKKIRKLEHELDRKSISEPADKRSTLKEDKSSKEEVVRWEEGKKWQARVDKMRNVLKEKEREVDSQAKQLATMKELYSRLEQEKVSLQKKLKGRGVTADQVVGARTLEADKEIEELHKRNAELEQQIKVMKQQQALPRDAAMEDITIRNRYLEERLYSMESRLSKEPPSRPSTSGRGSDTPSQREHEFQKENLRLSTENLELRFQLEQANKDLPRLKDQVSDLKEMCSVLKKEKAEVEKRLSHLRGSGRSGKTIPELEKTIGLMKKVVEKVQRENENLKKTSEVNVQEQLATLERDHEKLKSEYEKLKGKQEEQLNSRLESKTKGIEKIMMENERLRKEIKKEAEAAEKLRVAKASLEVANEKLKAELEETHQRLLLAQSKGATLLGVDSKTWKSSVVTRLFENKMKGLESDIAKKNISISELKVQLKEANEKLQATQHTVIQLKEQVELLKNVPVEATTDEGLAREYQSVRLANKQLEREKAQLLRQIQRNEVQLGTNKDGPGYTELQEQIKAANNEKKKLQDEVRKLTQELKHFDPTFFEELEDLKFNYNLEVKKNIVLEEQLKKLSDQFGVAIPDVSIN |
| 7149 | sp|O35732|CFLAR\_MOUSE | MAQSPVSAEVIHQVEECLDEDEKEMMLFLCRDVTENLAAPNVRDLLDSLSERGQLSFATLAELLYRVRRFDLLKRILKTDKATVEDHLRRNPHLVSDYRVLLMEIGESLDQNDVSSLVFLTRDYTGRGKIAKDKSFLDLVIELEKLNLIASDQLNLLEKCLKNIHRIDLNTKIQKYTQSSQGARSNMNTLQASLPKLSIKYNSRLQNGRSKEPRFVEYRDSQRTLVKTSIQESGAFLPPHIREETYRMQSKPLGICLIIDCIGNDTKYLQETFTSLGYHIQLFLFPKSHDITQIVRRYASMAQHQDYDSFACVLVSLGGSQSMMGRDQVHSGFSLDHVKNMFTGDTCPSLRGKPKLFFIQNYESLGSQLEDSSLEVDGPSIKNVDSKPLQPRHCTTHPEADIFWSLCTADVSHLEKPSSSSSVYLQKLSQQLKQGRRRPLVDLHVELMDKVYAWNSGVSSKEKYSLSLQHTLRKKLILAPT |
| 7150 | sp|Q62745|CD81\_RAT | MGVEGCTKCIKYLLFVFNFVFWLAGGVILGVALWLRHDPQTTTLLYLELGDKPAPSTFYVGIYILIAVGAVMMFVGFLGCYGAIQESQCLLGTFFTCLVILFACEVAAGIWGFVNKDQIAKDVKQFYDQALQQAVMDDDANNAKAVVKTFHETLNCCGSNTLTTLTTAVLRNSLCPSSSNSFTQLLKEDCHQKIDELFSGKLYLIGIAAIVVAVIMIFEMILSMVLCCGIRNSSVY |
| 7151 | sp|Q5ZHY5|CHIP\_CHICK | MKGKEEREREGGGGAVGPGAAGPGAGGGSPEKSHSAQEHKEQGNRLFGGRKYPEAAAAYGRAINRNPLVAVYYTNRALCYLKMQQHDKALADCKRALELDGQSVKAHFFLGQCQMEMENYDEAIANLQRAYNLAKEQRLNFGDDIPSALRIAKKKRWNSIEEKRINQENELHSYLTRLIMAEKERELAECRKAQQEENVDESRGRVQLAGIEAKHDKYLADMDELFSQVDEKRKKRDIPDYLCGKISFELMREPCITPSGITYDRKDIEEHLQRVGHFDPVTRSPLTQDQLIPNLAMKEVIDAFISENGWVEDY |
| 7152 | sp|Q925P2|CEAM2\_MOUSE | MELASAHLHKGQVPWFGLLLTASLLASWSPPTTAQVTVMAFPLHAAEGNNVILVVYNMMKGVSAFSWHKGSTTSTNAEIVRFVTGTNKTIKGPVHSGRETLYSNGSLLIQRVTMKDTGVYTIEMTDQNYRRRVLTGQFHVHTLLLKSNITSNNSNPVEGDDSVSLTCDSYTDPDNITYLWSRNGESLSEGDRLKLSEGNRTLTLLNVTRNDTGPYVCETRNPVSVNRSDPFSLNIIYGPDTPIISPSDIYLHPGSNLNLSCHAASNPPAQYFWLINEKPHASSQELFIPNITTNNSGTYTCFVNNSVTGLSRTTVKNITVLEPVTQPSLQVTNTTVKELDSVTLTCLSKDRQAHIHWIFNNDTLLITEKMTTSQAGLILKIDPIKREDAGEYQCEISNPVSVKRSNSIKLEVIFDSTYDISDVPIAVIITGAVAGVILIAGLAYRLCSRKSRWGSDQRDLTEHKPSASNHNLAPSDNSPNKVDDVAYTVLNFNSQQPNRPTSAPSSPRATETVYSEVKKK |
| 7153 | sp|Q92674|CENPI\_HUMAN | MSPQKRVKNVQAQNRTSQGSSSFQTTLSAWKVKQDPSNSKNISKHGQNNPVGDYEHADDQAEEDALQMAVGYFEKGPIKASQNKDKTLEKHLKTVENVAWKNGLASEEIDILLNIALSGKFGNAVNTRILKCMIPATVISEDSVVKAVSWLCVGKCSGSTKVLFYRWLVAMFDFIDRKEQINLLYGFFFASLQDDALCPYVCHLLYLLTKKENVKPFRVRKLLDLQAKMGMQPHLQALLSLYKFFAPALISVSLPVRKKIYFKNSENLWKTALLAVKQRNRGPSPEPLKLMLGPANVRPLKRKWNSLSVIPVLNSSSYTKECGKKEMSLSDCLNRSGSFPLEQLQSFPQLLQNIHCLELPSQMGSVLNNSLLLHYINCVRDEPVLLRFYYWLSQTLQEECIWYKVNNYEHGKEFTNFLDTIIRAECFLQEGFYSCEAFLYKSLPLWDGLCCRSQFLQLVSWIPFSSFSEVKPLLFDHLAQLFFTSTIYFKCSVLQSLKELLQNWLLWLSMDIHMKPVTNSPLETTLGGSMNSVSKLIHYVGWLSTTAMRLESNNTFLLHFILDFYEKVCDIYINYNLPLVVLFPPGIFYSALLSLDTSILNQLCFIMHRYRKNLTAAKKNELVQKTKSEFNFSSKTYQEFNHYLTSMVGCLWTSKPFGKGIYIDPEILEKTGVAEYKNSLNVVHHPSFLSYAVSFLLQESPEERTVNVSSIRGKKWSWYLDYLFSQGLQGLKLFIRSSVHHSSIPRAEGINCNNQY |
| 7154 | sp|P36630|CG22\_SCHPO | MALYSISKPVGSKINKHSYQDENTLVGKQALSKGTEKTKLSTNFEINLPRRTVLSDVSNVGKNNADEKDTKKAKRSFDESNLSTNEEADKPVESKFVKKLKVYSKNADPSVETLQKDRVSNVDDHLSSNPLMAEEYAPEIFEYIRKLDLKCLPNPKYMDQQKELTWKMREILNEWLVEIHSNFCLMPETLYLAVNIIDRFLSRRSCSLSKFQLTGITALLIASKYEEVMCPSIQNFVYMTDGAFTVEDVCVAERYMLNVLNFDLSYPSPLNFLRKISQAEGYDAQTRTLGKYLTEIYLFDHDLLRYPMSKIAAAAMYLSRRLLRRGPWTPKLVESSGGYEEHELKEIAYIMLHYHNKPLEHKAFFQKYSSKRFLKASIFVHQLVRQRYSVNRTDDDDLQSEPSSSLTNDGH |
| 7155 | sp|P42081|CD86\_HUMAN | MDPQCTMGLSNILFVMAFLLSGAAPLKIQAYFNETADLPCQFANSQNQSLSELVVFWQDQENLVLNEVYLGKEKFDSVHSKYMGRTSFDSDSWTLRLHNLQIKDKGLYQCIIHHKKPTGMIRIHQMNSELSVLANFSQPEIVPISNITENVYINLTCSSIHGYPEPKKMSVLLRTKNSTIEYDGVMQKSQDNVTELYDVSISLSVSFPDVTSNMTIFCILETDKTRLLSSPFSIELEDPQPPPDHIPWITAVLPTVIICVMVFCLILWKWKKKKRPRNSYKCGTNTMEREESEQTKKREKIHIPERSDEAQRVFKSSKTSSCDKSDTCF |
| 7156 | sp|Q2KIA5|DNM1L\_BOVIN | MEALIPVINKLQDVFNTVGADIIQLPQIVVVGTQSSGKSSVLESLVGRDLLPRGTGIVTRRPLILQLVHVAPEDKRKTTGEENDPATWKNSRHLSKGVEAEEWGKFLHTKNKLYTDFDEIRQEIENETERISGNNKGVSPEPIHLKIFSPNVVNLTLVDLPGMTKVPVGDQPKDIELQIRELILRFISNPNSIILAVTAANTDMATSEALKISREVDPDGRRTLAVITKLDLMDAGTDAMDVLMGRVIPVKLGIIGVVNRSQLDINNKKSVTDSIRDEYAFLQKKYPSLANRNGTKYLARTLNRLLMHHIRDCLPELKTRINVLAAQYQSLLNSYGEPVDDKSATLLQLITKFATEYCNTIEGTAKYIETSELCGGARICYIFHETFGRTLESVDPLGGLNTIDILTAIRNATGPRPALFVPEVSFELLVKRQIKRLEEPSLRCVELVHEEMQRIIQHCSNYSTQELLRFPKLHDAIVEVVTCLLRKRLPVTNEMVHNLVAIELAYINTKHPDFADACGLMNNNIEEQRRNRLARELPSAVSRDKSSKVPSALAPASQEPSPAASAEADGKLIQESRRETKNAASGGGGVGDAVQEPTTGNWRGMLKTSKAEELLAEEKSKPIPIMPASPQKGHAVNLLDVPVPVARKLSAREQRDCEVIERLIKSYFLIVRKNIQDSVPKAVMHFLVNHVKDTLQSELVGQLYKSSLLDDLLTESEDMAQRRKEAADMLKALQGASQIIAEIRETHLW |
| 7157 | sp|P20792|DAF1\_CAEEL | MRIRHVVFCLLALVYGAETSDDDLDERTNIFIRDKLIPALKLAEVTKVNFTRLHLCHCSREVGCNARTTGWVPGIEFLNETDRSFYENTCYTDGSCYQSARPSPEISHFGCMDEKSVTDETEFHDTAAKVCTNNTKDPHATVWICCDKGNFCANETIIHLAPGPQQSSTWLILTILALLTFIVLLGIAIFLTRKSWEAKFDWYIRFKPKPGDPLRETENNVPMVTMGDGAGSSVPEVAPIEQQGSTMSTSAGNSFPPGIMPNNMKDMLDVLEETSGSGMGPTTLHKLTIGGQIRLTGRVGSGRFGNVSRGDYRGEAVAVKVFNALDEPAFHKETEIFETRMLRHPNVLRYIGSDRVDTGFVTELWLVTEYHPSGSLHDFLLENTVNIETYYNLMRSTASGLAFLHNQIGGSKESNKPAMAHRDIKSKNIMVKNDLTCAIGDLGLSLSKPEDAASDIIANENYKCGTVRYLAPEILNSTMQFTVFESYQCADVYSFSLVMWETLCRCEDGDVLPREAATVIPYIEWTDRDPQDAQMFDVVCTRRLRPTENPLWKDHPEMKHIMEIIKTCWNGNPSARFTSYICRKRMDERQQLLLDKKAKAVAQTAGVTVQDRKILGPQKPKDESPANGAPRIVQKEIDREDEQENWRETAKTPNGHISSNDDSSRPLLG |
| 7158 | sp|P50233|DHI2\_RAT | MERWPWPSGGAWLLVAARALLQLLRSDLRLGRPLLAALALLAALDWLCQRLLPPPAALVVLAGAGWIALSRLARPPRLPVATRAVLITGCDTGFGKETAKKLDAMGFTVLATVLDLNGPGALELRARCSPRLKLLQMDLTKPEDISRVLEITKAHTASTGLWGLVNNAGLNMVVADVELSPVVTFRECMEVNFFGALELTKGLLPLLRHSRGRIVTVGSPAGDMPYPCLAAYGTSKAAIALLMDTFSCELLPWGIKVSIIQPGCFKTEAVTNVNLWEKRKQLLLANLPRELLQAYGEDYIEHLHGQFLNSLRMALPDLSPVVDAIIDALLAAQPRSRYYTGRGLGLMYFIHHYLPGGLRRRFLQNFFISHLLPRALRPGQPGPVHDTTQDPNPSPTVSAL |
| 7159 | sp|Q96EY1|DNJA3\_HUMAN | MAARCSTRWLLVVVGTPRLPAISGRGARPPREGVVGAWLSRKLSVPAFASSLTSCGPRALLTLRPGVSLTGTKHNPFICTASFHTSAPLAKEDYYQILGVPRNASQKEIKKAYYQLAKKYHPDTNKDDPKAKEKFSQLAEAYEVLSDEVKRKQYDAYGSAGFDPGASGSQHSYWKGGPTVDPEELFRKIFGEFSSSSFGDFQTVFDQPQEYFMELTFNQAAKGVNKEFTVNIMDTCERCNGKGNEPGTKVQHCHYCGGSGMETINTGPFVMRSTCRRCGGRGSIIISPCVVCRGAGQAKQKKRVMIPVPAGVEDGQTVRMPVGKREIFITFRVQKSPVFRRDGADIHSDLFISIAQALLGGTARAQGLYETINVTIPPGTQTDQKIRMGGKGIPRINSYGYGDHYIHIKIRVPKRLTSRQQSLILSYAEDETDVEGTVNGVTLTSSGGSTMDSSAGSKARREAGEDEEGFLSKLKKMFTS |
| 7160 | sp|Q99615|DNJC7\_HUMAN | MAAAAECDVVMAATEPELLDDQEAKREAETFKEQGNAYYAKKDYNEAYNYYTKAIDMCPKNASYYGNRAATLMMLGRFREALGDAQQSVRLDDSFVRGHLREGKCHLSLGNAMAACRSFQRALELDHKNAQAQQEFKNANAVMEYEKIAETDFEKRDFRKVVFCMDRALEFAPACHRFKILKAECLAMLGRYPEAQSVASDILRMDSTNADALYVRGLCLYYEDCIEKAVQFFVQALRMAPDHEKACIACRNAKALKAKKEDGNKAFKEGNYKLAYELYTEALGIDPNNIKTNAKLYCNRGTVNSKLRKLDDAIEDCTNAVKLDDTYIKAYLRRAQCYMDTEQYEEAVRDYEKVYQTEKTKEHKQLLKNAQLELKKSKRKDYYKILGVDKNASEDEIKKAYRKRALMHHPDRHSGASAEVQKEEEKKFKEVGEAFTILSDPKKKTRYDSGQDLDEEGMNMGDFDPNNIFKAFFGGPGGFSFEASGPGNFFFQFG |
| 7161 | sp|Q99704|DOK1\_HUMAN | MDGAVMEGPLFLQSQRFGTKRWRKTWAVLYPASPHGVARLEFFDHKGSSSGGGRGSSRRLDCKVIRLAECVSVAPVTVETPPEPGATAFRLDTAQRSHLLAADAPSSAAWVQTLCRNAFPKGSWTLAPTDNPPKLSALEMLENSLYSPTWEGSQFWVTVQRTEAAERCGLHGSYVLRVEAERLTLLTVGAQSQILEPLLSWPYTLLRRYGRDKVMFSFEAGRRCPSGPGTFTFQTAQGNDIFQAVETAIHRQKAQGKAGQGHDVLRADSHEGEVAEGKLPSPPGPQELLDSPPALYAEPLDSLRIAPCPSQDSLYSDPLDSTSAQAGEGVQRKKPLYWDLYEHAQQQLLKAKLTDPKEDPIYDEPEGLAPVPPQGLYDLPREPKDAWWCQARVKEEGYELPYNPATDDYAVPPPRSTKPLLAPKPQGPAFPEPGTATGSGIKSHNSALYSQVQKSGASGSWDCGLSRVGTDKTGVKSEGST |
| 7162 | sp|P49917|DNLI4\_HUMAN | MAASQTSQTVASHVPFADLCSTLERIQKSKGRAEKIRHFREFLDSWRKFHDALHKNHKDVTDSFYPAMRLILPQLERERMAYGIKETMLAKLYIELLNLPRDGKDALKLLNYRTPTGTHGDAGDFAMIAYFVLKPRCLQKGSLTIQQVNDLLDSIASNNSAKRKDLIKKSLLQLITQSSALEQKWLIRMIIKDLKLGVSQQTIFSVFHNDAAELHNVTTDLEKVCRQLHDPSVGLSDISITLFSAFKPMLAAIADIEHIEKDMKHQSFYIETKLDGERMQMHKDGDVYKYFSRNGYNYTDQFGASPTEGSLTPFIHNAFKADIQICILDGEMMAYNPNTQTFMQKGTKFDIKRMVEDSDLQTCYCVFDVLMVNNKKLGHETLRKRYEILSSIFTPIPGRIEIVQKTQAHTKNEVIDALNEAIDKREEGIMVKQPLSIYKPDKRGEGWLKIKPEYVSGLMDELDILIVGGYWGKGSRGGMMSHFLCAVAEKPPPGEKPSVFHTLSRVGSGCTMKELYDLGLKLAKYWKPFHRKAPPSSILCGTEKPEVYIEPCNSVIVQIKAAEIVPSDMYKTGCTLRFPRIEKIRDDKEWHECMTLDDLEQLRGKASGKLASKHLYIGGDDEPQEKKRKAAPKMKKVIGIIEHLKAPNLTNVNKISNIFEDVEFCVMSGTDSQPKPDLENRIAEFGGYIVQNPGPDTYCVIAGSENIRVKNIILSNKHDVVKPAWLLECFKTKSFVPWQPRFMIHMCPSTKEHFAREYDCYGDSYFIDTDLNQLKEVFSGIKNSNEQTPEEMASLIADLEYRYSWDCSPLSMFRRHTVYLDSYAVINDLSTKNEGTRLAIKALELRFHGAKVVSCLAEGVSHVIIGEDHSRVADFKAFRRTFKRKFKILKESWVTDSIDKCELQEENQYLI |
| 7163 | sp|Q810H6|DISC1\_RAT | MQGAGSRGAWIHSPSHCPGNGHGSPPAVAPQRRRLTRRPGYMRSTASPGIGFLSPAVGMPRPISAGLTGQEFYPSQSKARQCSLDLRSHCQDSLVGNPFLKGSLGPAVTSVGHLHPAQGSMRERMVHSGVHSGNDRRQSERLTGDSGCRQEFLSSDSSKSLASSLDVAWSKGSRGLKTVRPLVSPASNGPVDIPSLPGFQDTFTSNFSFIRLSLGAAGERGEAEGCLPSREAEPLHQSPQEMAAEGSGSDRPHGEPRHLWTFSLHAAPGLVDLAQGTRSNRQPECGMVSSSDAGFSSQDASPAGGRSDQDGGWADAHGWHALLREWEPMLQDYLLSNRRQLEVTSLILKLQKLQEKAVEDGDYDMAETLRQRLEDLEQEKGRLPWALPSQQPALRSFLGYLATQTHAALHGAPQRAGSDDPEAPLEGQRRTTAQDSLPGLAVTRRDWLMREKEQLQKEIEALRARVSVLEAKEQRLSQELEDQEMLLRWQGCDQMALVAQLSPGQLQEVSKALGETLTSARWAPFRVEPPETLRSLRERTKSLDLAVRELTEQVCSGEKLCSSLRKRLADLDTRLPALLEAKMLALSGSCFSTAKELAEEIWAVSSEREGLEMFLGRLLALSSRNTRRLGSVKEDYLRCRQDLALQEAAHKTRVKANTVKCTEVLEGQLSCCRCPLLERVWKADLEACQLLMQSLEIQEAGSSSHVEDEKQVHSTGEAAQTAALAVPRTPHPEEEKSPLQVLCEWNTYSASLPHCAAGLWKEESHVVFAEVGDKCEAIGMRLLHLEDQLLGAMHGHDEALFQSLQGELQMVKETLQTMFLQLQPAKEAGGEASASYSTAGAQEAED |
| 7164 | sp|Q9NRI5|DISC1\_HUMAN | MPGGGPQGAPAAAGGGGVSHRAGSRDCLPPAACFRRRRLARRPGYMRSSTGPGIGFLSPAVGTLFRFPGGVSGEESHHSESRARQCGLDSRGLLVRSPVSKSAAAPTVTSVRGTSAHFGIQLRGGTRLPDRLSWPCGPGSAGWQQEFAAMDSSETLDASWEAACSDGARRVRAAGSLPSAELSSNSCSPGCGPEVPPTPPGSHSAFTSSFSFIRLSLGSAGERGEAEGCPPSREAESHCQSPQEMGAKAASLDGPHEDPRCLSRPFSLLATRVSADLAQAARNSSRPERDMHSLPDMDPGSSSSLDPSLAGCGGDGSSGSGDAHSWDTLLRKWEPVLRDCLLRNRRQMEVISLRLKLQKLQEDAVENDDYDKAETLQQRLEDLEQEKISLHFQLPSRQPALSSFLGHLAAQVQAALRRGATQQASGDDTHTPLRMEPRLLEPTAQDSLHVSITRRDWLLQEKQQLQKEIEALQARMFVLEAKDQQLRREIEEQEQQLQWQGCDLTPLVGQLSLGQLQEVSKALQDTLASAGQIPFHAEPPETIRSLQERIKSLNLSLKEITTKVCMSEKFCSTLRKKVNDIETQLPALLEAKMHAISGNHFWTAKDLTEEIRSLTSEREGLEGLLSKLLVLSSRNVKKLGSVKEDYNRLRREVEHQETAYETSVKENTMKYMETLKNKLCSCKCPLLGKVWEADLEACRLLIQSLQLQEARGSLSVEDERQMDDLEGAAPPIPPRLHSEDKRKTPLKVLEEWKTHLIPSLHCAGGEQKEESYILSAELGEKCEDIGKKLLYLEDQLHTAIHSHDEDLIQSLRRELQMVKETLQAMILQLQPAKEAGEREAAASCMTAGVHEAQA |
| 7165 | sp|Q8WXX0|DYH7\_HUMAN | MSSEQDKSASKEKSKKPVRFLPQLSMEKLASKEKFKAPARALPQLSMVSTKPHWQQAAPSFHLSVKQDDESPEPFSVKNEQSHAEYMERFGKKGKLPHQVDDSYVGPSTSKSKGKSPHKERENFRSTLVNVIMQQDADLDSAVPDGSTIPKPTASAIEKDILRYYYYIHHGIDTDHVAPMEDSWLEHVLDLVPQHLKVFTDSIVTLSDEMREDYLLSVRKSIVDFVLKDPREKGDDKKTDELPAHRAEMEILPKPWRKSFLAASSYIRDHLNAMNPTMLAVLDLWHTNFKKLRLVDIKEFHNCQDALELSSFQNIIMRHMDSAKETLLKMWFPEVQNIYYQGNKKKQLPTGDSSAKLESFFNCAAALMTLQLQDLTLVSMQDFTDLIAQPPDSVRAFEHPGFIMRLILDNDTIKFEPELSDYIDIFLNVYDVMIKAVSFVPRVETKLYSKWESKSKPTTLKPIILNEIVDAHKEKIKEVIMKESVAPTEHLRLYDKYDFLITRKAERDVDNFLAENHSYEKIIDEICKYQKLIEEIQYTSIKTIRLGMFEMHCEELIRALVKRADIICGKLLAKMFRDHQEVNTRLCDEFERIAEKALSTPPNTAELMEMKAYIQKVEVTDMIELEQRLVDSKNCLAFLIEYVNFSPADMRLNNSVFQWYGRMGEIFEEHRKIIKEKIEQYQEGLKLRCERFVEELESYAKQSEEFYSFGDLQDVQRYLKKAQILNGKLDLAADKIEQFNAEEEAFGWLPSVYPQRKKIQDGLNPYLRLYETAVEFSSNYRAWTEGPYHKVNPDQVEADIGNYWRGLYKLEKTFHDSPYALAMTKKVRSKVEDFKQHIPLIQVICNPGLRPRHWEAMSAIVGYPLQPSDDSTVSSFLDMNLEPYIDRFEGISEAASKEYSLEKAMEKMITEWDAVEFVIHSYRETGTFILASVDEIQMLLDDHIIKTQTMRGSPFIKPYEKQMREWEGKLLLLQEILDEWLKVQATWLYLEPIFSSPDIMSQMPEEGRRFTAVDKTWRDIMRSVMQDKHVLTVVTIDRMLERLKKSNELLELILKGLNEYLEKKRLFFPRFFFLSNDELLEILSETKDPTRVQPHLKKCFEGIAKVEFTETLDITHMKSSEGEVVELIEIISTAKARGQVEKWLVELERVMINSIHKVTGDATFAYTKYERINWVRDWPGQTVLCVSQIFWTKEVQTAIPMGIKALEQYLKTCNRQIDDIVTLVRGKLSMQNRVTLGALVVLDVHARDVLSSLVKKNISDDSDFEWLSQLRYYWQENHLETKMINAGLRYGYEYLGNSPRLVITPLTDRCYRTLFGALHLHLGGAPEGPAGTGKTETTKDLAKAVAKQCVVFNCSDGLDYLALGKFFKGLLSCGAWACFDEFNRIDLEVLSVVAQQILTIQRGINAGADILMFEGTELKLDPTCAVFITMNPGYAGRSELPDNLKALFRTVAMMVPDYAMIAEIVLYSCGFVTARPLSVKIVATYRLCSEQLSSQHHYDYGMRAVKSVLTAAGNLKLKYPNENEEILLLRSIIDVNLPKFLSHDLPLFEGITSDLFPGVKLPKPDYNDLLAAIKDNCASMNLQMTAFFSEKILQVYEMMIVRHGFMIVGEPFGGKTSAYRVLAGALNDICEKGLMEENKVQITVLNPKSVTMGQLYGQFDSVSHEWSDGVLAVSFRAFASSVTPDRKWLIFDGPVDAVWIENMNTVLDDNKKLCLMSGEIIQMSPQMNLIFEPMDLEVASPATVSRCGMIYMEPHMLGWRPLMLSWVNLLPASVSVIQKEFIMGLFDRMVPVSVEFIRKHTKELSPTSDTNLVRSLMNLIDCFMDDFADEVKLKERNDRETYSLLEGIFLFSLIWSVGASCTDDDRLKFNKILRELMESPISDRTRNTFKLQSGTEQTSSKALTVPFPEKGTIYDYQFVTEGIGKWEPWIKKLKEAPPIPKDVMFNEIIVPTLDTIRYSALMELLTTHQKPSIFVGPTGTGKSVYITNFLLNQLNKEIYKPLLINFSAQTTAAQTQNIVMSKLDKRRKGVFGPPLGKRMVVFVDDVNMPAREVYGAQPPIELLRQWLDHWNWYDLKDCSMIKLVDIQIMCAMGPPGGGRNPVTPRYMRHFNIITINEFSDKSMYTIFSRILTWHLEICYKFPDEFLDLTTQIVNGTMTLYKEAMKNLLPTPAKSHYLFNLRDFSRVIQGVCLSRPETTETTEVIKRLWVHEVLRVYYDRLLDNTDRSWLINYIQEILRNYMYEDFHELFQRLDFDNDGMVEADDLRSLMFCDFHDPKREDTNYREIADVDNLRMIVEIHLEEYNNISKKPMNLVLFRFAIEHISRISRILKQPRSHALLVGVGGSGRQSVTRLAAHMADYSVFQVEISKGYDTTEWHEDLKVILRKCAEGEMQGVFLFTDTQIKEESFLEDVSNLLNAGEIPNLFALDEKQEICDKMRQLDRQRDKTKQTDGSPIALFNMFIDHCRSQLHVVLAMSPIGDAFRNRLRKFPALVNCCTIDWFQSWPEDALQAVASRFLEEIEMSEEIRDGCIDMCKSFHTSTIDLSKSFFVELQRYNYVTPTSYLELISTFKLLLEKKRSEVMKMKKRYEVGLEKLDSASSQVATMQMELEALHPQLKVASKEVDEMMIMIEKESVEVAKTEKIVKADETIANEQAMASKAIKDECDADLAGALPILESALAALDTLTAQDITVVKSMKSPPAGVKLVMEAICILKGIKADKIPDPTGSGKKIEDFWGPAKRLLGDMRFLQSLHEYDKDNIPPAYMNIIRKNYIPNPDFVPEKIRNASTAAEGLCKWVIAMDSYDKVAKIVAPKKIKLAAAEGELKIAMDGLRKKQAALKEVQDKLARLQDTLELNKQKKADLENQVDLCSKKLERAEQLIGGLGGEKTRWSHTALELGQLYINLTGDILISSGVVAYLGAFTSTYRQNQTKEWTTLCKGRDIPCSDDCSLMGTLGEAVTIRTWNIAGLPSDSFSIDNGIIIMNARRWPLMIDPQSQANKWIKNMEKANSLYVIKLSEPDYVRTLENCIQFGTPVLLENVGEELDPILEPLLLKQTFKQGGSTCIRLGDSTIEYAPDFRFYITTKLRNPHYLPETSVKVTLLNFMITPEGMQDQLLGIVVAQERPDLEEEKQALILQGAENKRQLKEIEDKILEVLSSSEGNILEDETAIKILSSSKALANEISQKQEVAEETEKKIDTTRMGYRPIAIHSSILFFSLADLANIEPMYQYSLTWFINLFILSIENSEKSEILAKRLQILKDHFTYSLYVNVCRSLFEKDKLLFSFCLTINLLLHERAINKAEWRFLLTGGIGLDNPYANLCTWLPQKSWDEICRLDDLPAFKTIRREFMRLKDGWKKVYDSLEPHHEVFPEEWEDKANEFQRMLIIRCLRPDKVIPMLQEFIINRLGRAFIEPPPFDLAKAFGDSNCCAPLIFVLSPGADPMAALLKFADDQGYGGSKLSSLSLGQGQGPIAMKMLEKAVKEGTWVVLQNCHLATSWMPTLEKVCEELSPESTHPDFRMWLTSYPSPNFPVSVLQNGVKMTNEAPKGLRANIIRSYLMDPISDPEFFGSCKKPEEFKKLLYGLCFFHALVQERRKFGPLGWNIPYEFNETDLRISVQQLHMFLNQYEELPYEALRYMTGECNYGGRVTDDWDRRTLRSILNKFFNPELVENSDYKFDSSGIYFVPPSGDHKSYIEYTKTLPLTPAPEIFGMNANADITKDQSETQLLFDNILLTQSRSAGAGAKSSDEVVNEVASDILGKLPNNFDIEAAMRRYPTTYTQSMNTVLVQEMGRFNKLLKTIRDSCVNIQKAIKGLAVMSTDLEEVVSSILNVKIPEMWMGKSYPSLKPLGSYVNDFLARLKFLQQWYEVGPPPVFWLSGFFFTQAFLTGAQQNYARKYTIPIDLLGFDYEVMEDKEYKHPPEDGVFIHGLFLDGASWNRKIKKLAESHPKILYDTVPVMWLKPCKRADIPKRPSYVAPLYKTSERRGVLSTTGHSTNFVIAMTLPSDQPKEHWIGRGVALLCQLNS |
| 7166 | sp|O55096|DPP3\_RAT | MADTQYILPNDIGVSSLDCREAFRLLSPTERLYAHHLSRAAWYGGLAVLLQTSPEAPYIYALLSRLFRAQDPDQLRQHALAEGLTEEEYQAFLVYAAGVYSNMGNYKSFGDTKFVPNLPKEKLERVILGSKAAQQHPEEVRSLWQTCGELMFSLEPRLRHLGLGKEGVTTYFSGDCAMEDAKLAQDFLDSQNLSAYNTRLFKVVGQEGKYHYEVRLASVLNTEPALDSELTSKLKSYEFQGNHFQVTRGDYAPILQKVVEHLEKAKAYAANSHQEQMLAQYVESFTQGSIEAHKRGSRFWIQDKGPIVESYIGFIESYRDPFGSRGEFEGFVAMVNKDMSAKFERLVASAEQLLKELPWPPAFEKDKFLTPDFTSLDVLTFAGSGIPAGINIPNYDDLRQTEGFKNVSLGNVLAVAYATKREKLTFMEEEDKDLYIRWKGPSFDVQVGLHELLGHGSGKLFVQDEKGAFNFDQETVINPETGEQIQSWYRSGETWDSKFSTIASSYEECRAESVGLYLCLNPQVLQIFGFEGTDAEDVIYVNWLNMVRAGLLALEFYTPETANWRQAHMQARFVILRVLLEAGEGLVTVTPTTGSDGRPDARVHLDRSKIRSVGKPALERFLRRLQVLKSTGDVVAGRALYEGYAAVTDAPPECFLTLRDTVLLRKESRKLIVQPNTRLEGSEVQLVEYEASAAGLIRSFCERFPEDGPELEEVLTQLATADAQFWRDQVQEAPSGQA |
| 7167 | sp|Q8N608|DPP10\_HUMAN | MNQTASVSHHIKCQPSKTIKELGSNSPPQRNWKGIAIALLVILVVCSLITMSVILLTPDELTNSSETRLSLEDLFRKDFVLHDPEARWINDTDVVYKSENGHVIKLNIETNATTLLLENTTFVTFKASRHSVSPDLKYVLLAYDVKQIFHYSYTASYVIYNIHTREVWELNPPEVEDSVLQYAAWGVQGQQLIYIFENNIYYQPDIKSSSLRLTSSGKEEIIFNGIADWLYEEELLHSHIAHWWSPDGERLAFLMINDSLVPTMVIPRFTGALYPKGKQYPYPKAGQVNPTIKLYVVNLYGPTHTLELMPPDSFKSREYYITMVKWVSNTKTVVRWLNRAQNISILTVCETTTGACSKKYEMTSDTWLSQQNEEPVFSRDGSKFFMTVPVKQGGRGEFHHVAMFLIQSKSEQITVRHLTSGNWEVIKILAYDETTQKIYFLSTESSPRGRQLYSASTEGLLNRQCISCNFMKEQCTYFDASFSPMNQHFLLFCEGPRVPVVSLHSTDNPAKYFILESNSMLKEAILKKKIGKPEIKILHIDDYELPLQLSLPKDFMDRNQYALLLIMDEEPGGQLVTDKFHIDWDSVLIDMDNVIVARFDGRGSGFQGLKILQEIHRRLGSVEVKDQITAVKFLLKLPYIDSKRLSIFGKGYGGYIASMILKSDEKLFKCGSVVAPITDLKLYASAFSERYLGMPSKEESTYQAASVLHNVHGLKEENILIIHGTADTKVHFQHSAELIKHLIKAGVNYTMQVYPDEGHNVSEKSKYHLYSTILKFFSDCLKEEISVLPQEPEEDE |
| 7168 | sp|Q8K409|DPOLB\_MOUSE | MSKRKAPQETLNGGITDMLVELANFEKNVSQAIHKYNAYRKAASVIAKYPHKIKSGAEAKKLPGVGTKIAEKIDEFLATGKLRKLEKIRQDDTSSSINFLTRVTGIGPSAARKFVDEGIKTLEDLRKNEDKLNHHQRIGLKYFEDFEKRIPREEMLQMQDIVLNEIKKVDSEYIATVCGSFRRGAESSGDMDVLLTHPNFTSESSKQPKLLHRVVEQLQKVHFITDTLSKGETKFMGVCQLPSEKDGKEYPHRRIDIRLIPKDQYYCGVLYFTGSDIFNKNMRAHALEKGFTINEYTIRPLGVTGVAGEPLPVDSEQDIFDYIQWRYREPKDRSE |
| 7169 | sp|P55265|DSRAD\_HUMAN | MNPRQGYSLSGYYTHPFQGYEHRQLRYQQPGPGSSPSSFLLKQIEFLKGQLPEAPVIGKQTPSLPPSLPGLRPRFPVLLASSTRGRQVDIRGVPRGVHLRSQGLQRGFQHPSPRGRSLPQRGVDCLSSHFQELSIYQDQEQRILKFLEELGEGKATTAHDLSGKLGTPKKEINRVLYSLAKKGKLQKEAGTPPLWKIAVSTQAWNQHSGVVRPDGHSQGAPNSDPSLEPEDRNSTSVSEDLLEPFIAVSAQAWNQHSGVVRPDSHSQGSPNSDPGLEPEDSNSTSALEDPLEFLDMAEIKEKICDYLFNVSDSSALNLAKNIGLTKARDINAVLIDMERQGDVYRQGTTPPIWHLTDKKRERMQIKRNTNSVPETAPAAIPETKRNAEFLTCNIPTSNASNNMVTTEKVENGQEPVIKLENRQEARPEPARLKPPVHYNGPSKAGYVDFENGQWATDDIPDDLNSIRAAPGEFRAIMEMPSFYSHGLPRCSPYKKLTECQLKNPISGLLEYAQFASQTCEFNMIEQSGPPHEPRFKFQVVINGREFPPAEAGSKKVAKQDAAMKAMTILLEEAKAKDSGKSEESSHYSTEKESEKTAESQTPTPSATSFFSGKSPVTTLLECMHKLGNSCEFRLLSKEGPAHEPKFQYCVAVGAQTFPSVSAPSKKVAKQMAAEEAMKALHGEATNSMASDNQPEGMISESLDNLESMMPNKVRKIGELVRYLNTNPVGGLLEYARSHGFAAEFKLVDQSGPPHEPKFVYQAKVGGRWFPAVCAHSKKQGKQEAADAALRVLIGENEKAERMGFTEVTPVTGASLRRTMLLLSRSPEAQPKTLPLTGSTFHDQIAMLSHRCFNTLTNSFQPSLLGRKILAAIIMKKDSEDMGVVVSLGTGNRCVKGDSLSLKGETVNDCHAEIISRRGFIRFLYSELMKYNSQTAKDSIFEPAKGGEKLQIKKTVSFHLYISTAPCGDGALFDKSCSDRAMESTESRHYPVFENPKQGKLRTKVENGEGTIPVESSDIVPTWDGIRLGERLRTMSCSDKILRWNVLGLQGALLTHFLQPIYLKSVTLGYLFSQGHLTRAICCRVTRDGSAFEDGLRHPFIVNHPKVGRVSIYDSKRQSGKTKETSVNWCLADGYDLEILDGTRGTVDGPRNELSRVSKKNIFLLFKKLCSFRYRRDLLRLSYGEAKKAARDYETAKNYFKKGLKDMGYGNWISKPQEEKNFYLCPV |
| 7170 | sp|Q8WTR2|DUS19\_HUMAN | MYSLNQEIKAFSRNNLRKQCTRVTTLTGKKIIETWKDARIHVVEEVEPSSGGGCGYVQDLSSDLQVGVIKPWLLLGSQDAAHDLDTLKKNKVTHILNVAYGVENAFLSDFTYKSISILDLPETNILSYFPECFEFIEEAKRKDGVVLVHCNAGVSRAAAIVIGFLMNSEQTSFTSAFSLVKNARPSICPNSGFMEQLRTYQEGKESNKCDRIQENSS |