>2HBWA

GXLSNLESSIQSPKSGEYQCLAALNLYDSPECTSLATQAAVGRHLQVTSNQQGAAVEVCLCEDDYPG WLSLGDLGLLKPATVLYQAKSFSESEIKKLLPGAIAFTQKAXQQSNYYLWGGTVGPNYDCSGLXQAAF VSVGIWLPRDAYQQEAFTQAITIDELAPGDLVFFGTPVKATHVGLYLGDGCYIHSSGKAQGRDGIGIDI LSEOGDVVSRSYYQQLRGAGRVVKSYKPORH

>3EJKA

GXDIXLNTADISAAAILLPVEGAQLSELRQIPAEGGPVLHXLRLDSPQFSQFGEIYFSEVLPRRVKAWKR HSLXTQLFAVPVGCIHVVLYDGREKSPTSGRLAQVTLGRPDNYRLLRIPPQVWYGFAATGDTPALVA NCTDIPHRQGESERAPQDAPFIPFSWAGADLSGTPVX

>2BZVA

RIAISNSNRTRSVPSLTTIWSISPTPNCSIYETQDANLFLCLTKNGAHVLGTITIKGLKGALREMHDNALS LKLPFDNQGNLLNCALESSTWRYQETNAVASNALTFMPNSTVYPRNKTAHPGNMLIQISPNITFSVV YNEINSGYAFTFKWSAEPGKPFHPPTAVFCYITEQGSHHHHHH

>1FO8A

LAVIPILVIACDRSTVRRCLDKLLHYRPSAELFPIIVSQDCGHEETAQVIASYGSAVTHIRQPDLSNIAVQ PDHRKFQGYYKIARHYRWALGQIFHNFNYPAAVVVEDDLEVAPDFFEYFQATYPLLKADPSLWCVSA WNDNGKEQMVDSSKPELLYRTDFFPGLGWLLLAELWAELEPKWPKAFWDDWMRRPEQRKGRACV RPEISRTMTFGRKGVSHGQFFDQHLKFIKLNQQFVPFTQLDLSYLQQEAYDRDFLARVYGAPQLQVE KVRTNDRKELGEVRVQYTGRDSFKAFAKALGVMDDLKSGVPRAGYRGIVTFLFRGRRVHLAPPQTW DGYDPSWT

>1ZTHA

XKDLKKIESYLDKLRIKEKDGEERKIYAEVLDGRTLKTLYKLSAKGYITAXGGVISTGKEANVFYADGVFD GKPVAXAVKIYRIETSEFDKXDEYLYGDERFDXRRISPKEKVFIWTEKEFRNLERAKEAGVSVPQPYTYXK NVLLXEFIGEDELPAPTLVELGRELKELDVEGIFNDVVENVKRLYQEAELVHADLSEYNIXYIDKVYFIDX GQAVTLRHPXAESYLERDVRNIIRFFSKYGVKADFEEXLKEVKGE

>1UJ2A

PGMAGDSEQTLQNHQQPNGGEPFLIGVSGGTASGKSSVCAKIVQLLGQNEVDYRQKQVVILSQDSF YRVLTSEQKAKALKGQFNFDHPDAFDNELILKTLKEITEGKTVQIPVYDFVSHSRKEETVTVYPADVVLF EGILAFYSQEVRDLFQMKLFVDTDADTRLSRRVLRDISERGRDLEQILSQYITFVKPAFEEFCLPTKKYAD VIIPRGADNLVAINLIVQHIQDILNGGPSKRQTNGCLNGYTPSRK

>2HHCA

>3BMZA

>1LUCA

MKFGNFLLTYQPPELSQTEVMKRLVNLGKASEGCGFDTVWLLEHHFTEFGLLGNPYVAAAHLLGATE TLNVGTAAIVLPTAHPVRQAEDVNLLDQMSKGRFRFGICRGLYDKDFRVFGTDMDNSRALMDCWY DLMKEGFNEGYIAADNEHIKFPKIQLNPSAYTQGGAPVYVVAESASTTEWAAERGLPMILSWIINTHE KKAQLDLYNEVATEHGYDVTKIDHCLSYITSVDHDSNRAKDICRNFLGHWYDSYVNATKIFDDSDQT KGYDFNKGQWRDFVLKGHKDTNRRIDYSYEINPVGTPEECIAIIQQDIDATGIDNICCGFEANGSEEEII ASMKLFQSDVMPYLKEKQ

>206FA

>3C85A

SNAPLNRLGHKIYQHSGKWLQETAAEKLNQRDQLINPGHAQVLILGXGRIGTGAYDELRARYGKISLG IEIREEAAQQHRSEGRNVISGDATDPDFWERILDTGHVKLVLLAXPHHQGNQTALEQLQRRNYKGQI AAIAEYPDQLEGLLESGVDAAFNIYSEAGSGFARHVCKQLEPQFTSIK

>3EMHA

GPLGSPEFQSKPTPVKPNYALKFTLAGHTKAVSSVKFSPNGEWLASSSADKLIKIWGAYDGKFEKTISG HKLGISDVAWSSDSNLLVSASDDKTLKIWDVSSGKCLKTLKGHSNYVFCCNFNPQSNLIVSGSFDESV RIWDVKTGKCLKTLPAHSDPVSAVHFNRDGSLIVSSSYDGLCRIWDTASGQCLKTLIDDDNPPVSFVK FSPNGKYILAATLDNTLKLWDYSKGKCLKTYTGHKNEKYCIFANFSVTGGKWIVSGSEDNLVYIWNLQ TKEIVQKLQGHTDVVISTACHPTENIIASAALENDKTIKLWKSDC

>3F0HA

XGSDKIHHHHHHHENLYFQGXLNFTVGPVXSSEEVRAIGAEQVPYFRTTEFSSTXLENEKFXLEYAKAPE GSKAVFXTCSSTGSXEAVVXNCFTKKDKVLVIDGGSFGHRFVQLCEIHEIPYVALKLEHGKKLTKEKLYE YDNQNFTGLLVNVDETSTAVLYDTXXIGEFCKKNNXFFVCDCVSAFLADPFNXNECGADVXITGSQX VLACPPGISVIVLAPRGVERVEKSKVRTXYFDLKDALKNQERGQTPFTPAVGILLQINERLKEIKKHGGA DAEVARIASQAADFRAKIKDLPFELVSESPANGVTSVHPTTANAYDIFLKLKDEYGIWICPNGGEXKDTI FRVGHIGALTHEDNTTLVNAFKDLQKRNLL

>1VPBA

MGSDKIHHHHHHMITDENKKLAQWAMDYALKNGCQAAKVLLYSSSNTSFELRDAKMDRLQQASE GGLSLSLYVDGRYGSISTNRLNRKELETFIKNGIDSTRYLAKDEARVLADPSRYYKGGKPDLKLYDAKFA SLNPDDKIEMAKAVAEEALGKDERIISVGSSYGDGEDFAYRLISNGFEGETKSTWYSLSADITIRGEGEA RPSAYWYESSLYMNDLIKKGIGQKALERVLRKLGQKKVQSGKYTMVVDPMNSSRLLSPMISALNGSA LQQKNSFLLNKLNEKIASDRLTLTDEPHLVKASGARYFDNEGIATERRSIFDKGVLNTYFIDTYNAKKM GVDPTISGSSILVMETGDKNLDGLIAGVEKGILVTGFNGGNNNSSTGDFSYGIEGFLIENGKLTQPVSE MNVTGNLITLWNSLVATGNDPRLNSSWRIPSLVFEGVDFSGL

>2V3GA

MASNYNSGLKIGAWVGTQPSESAIKSFQELQGRKLDIVHQFINWSTDFSWVRPYADAVYNNGSILMI TWEPWEYNTVDIKNGKADAYITRMAQDMKAYGKEIWLRPLHEANGDWYPWAIGYSSRVNTNETYI AAFRHIVDIFRANGATNVKWVFNVNCDNVGNGTSYLGHYPGDNYVDYTSIDGYNWGTTQSWGSQ WQSFDQVFSRAYQALASINKPIIIAEFASAEIGGNKARWITEAYNSIRTSYNKVIAAVWFHENKETDWR INSSPEALAAYREAIGAG

>2E4TA

GSRSEPAKVVDIRIDTSAERKPISPYIYGSNQELDATVTAKRFGGNRTTGYNWENNFSNAGSDWLHYS DTYLLEDGGVPKGEWSTPASVVTTFHDKALSKNVPYTLITLQAAGYVSADGNGPVSQEETAPSSRWK EVKFEKGAPFSLTPDTEDDYVYMDEFVNYLVNKYGNASTPTGIKGYSIDNEPALWSHTHPRIHPDNVT AKELIEKSVALSKAVKKVDPYAEIFGPALYGFAAYETLQSAPDWGTEGEGYRWFIDYYLDKMKKASDEE GKRLLDVLDVHWYPEARGGGERICFGADPRNIETNKARLQAPRTLWDPTYIEDSWIGQWKKDFLPILP NLLDSIEKYYPGTKLAITEYDYGGGNHITGGIAQADVLGIFGKYGVYLATFWGDASNNYTEAGINLYTN YDGKGGKFGDTSVKCETSDIEVSSAYASIVGEDDSKLHIILLNKNYDQPTTFNFSIDSSKNYTIGNVWAF DRGSSNITORTPIVNIKDNTFTYTVPALTACHIVLEAAEP

>3CBWA

MSLAKPIEAHTVSPVNPNAQQTTKTVMNWLAHLPNRTENRVLSGAFGGYSHDTFSMAEADRIRSAT GQSPAIYGCDYARGWLETANIEDSIDVSCNGDLMSYWKNGGIPQISLHLANPAFQSGHFKTPITNDQ YKKILDSSTVEGKRLNAMLSKIADGLQELENQGVPVLFRPLHEMNGEWFWWGLTSYNQKDNERISLY KQLYKKIYHYMTDTRGLDHLIWVYSPDANRDFKTDFYPGASYVDIVGLDAYFQDAYSINGYDQLTAL NKPFAFTEVGPQTANGSFDYSLFINAIKQKYPKTIYFLAWNDEWSAAVNKGASALYHDSWTLNKGEI WNGDSLTPIVEEGHHHHHH

>1ES9A

MSGDENPASKPTPVQDVQGDGKWMSLHHRFVADSKDKEPEVVFIGDSLVQLMHQCEIWRELFSPL

HALNFGIGGDSTQHVLWRLENGELEHIRPKIVVVWVGTNNHGHTAEQVTGGIKAIVQLVNERQPQA RVVVLGLLPRGQHPNPLREKNRRVNELVRAALAGHPRAHFLDADPGFVHSDGTISHHDMYDYLHLS RLGYTPVCRALHSLLLRLLTQDQGQGGAPLPEPSP

>1HUWA

FPTIPLSRLADNAWLRADRLNQLAFDTYQEFEEAYIPKEQIHSFWWNPQTSLCPSESIPTPSNKEETQQ KSNLELLRISLLLIQSWLEPVQFLRSVFANSLVYGASDSNVYDLLKDLEEGIQTLMGRLEDGSPRTGQIF KQTYSKFDTNSHNDDALLKNYGLLYCFNKDMSKVSTYLRTVQCRSVEGSCGF

>3CKMA

>2PNWA

MSLNTPFSIDEVSFRDLPGWGQDDPRKLFPAMATILSHLRNAKPYRTGALGITAAELVSLLELAERGQV NSPEQARQFFETNSVPFRISPAQGKSGFVTAFYEPELEVSATPDDVWRYPIYRRPPELVDIDNDNRPD GFDPSYAFGKADEEGISYFPDRRAIDEGCLRGRGLEIAWARSKVDLFFVHVQGAARLVFPDGAIKRITY AAKAGHVFSPIGRLLLDRGELDPKTISMQTIRQWLADHPDEVDGVLWHNRSYIFFREADVAGLDMGP IAAAKVPLVAGRALAVDRLIHTFGLPFFIHAPTLTHLDDGKPFARLMLALDTGSAIVGPARGDIFTGSGF EAGELAGTVRNEADFYILLPRIAAERYRREGHHHHHH

>1DG6A

MILRTSEETISTVQEKQQNISPLVRERGPQRVAAHITGTRGRSNTLSSPNSKNEKALGRKINSWESSRS GHSFLSNLHLRNGELVIHEKGFYYIYSQTYFRFQEEIKENTKNDKQMVQYIYKYTSYPAPILLMKSARNS CWSKDAEYGLYSIYQGGIFELKENDRIFVSVTNEHLIDMDHEASFFGAFLVG

>2B9EA

GSRPGPASQLPRFVRVNTLKTCSDDVVDYFKRQGFSYQGRASSLDDLRALKGKHFLLDPLMPELLVFP AQTDLHEHPLYRAGHLILQDRASCLPAMLLDPPPGSHVIDACAAPGNKTSHLAALLKNQGKIFAFDL DAKRLASMATLLARAGVSCCELAEEDFLAVSPSDPRYHEVHYILLDPSCSGSGMPSRQLEEPGAGTPS PVRLHALAGFQQRALCHALTFPSLQRLVYSTCSLCQEENEDVVRDALQQNPGAFRLAPALPAWPHR GLSTFPGAEHCLRASPETTLSSGFFVAVIERVEVPRRARG

>2OSIA

GHXSGSLARAAARPNAPTLVDEATVDDFIAHSGKIVVLFFRGDAVRFPEAADLAVVLPELINAFPGRLV AAEVAAEAERGLXARFGVAVCPSLAVVQPERTLGVIAKIQDWSSYLAQIGAXLAEVDQPGEAELQSG S

AAASFGQTKIPRGNGPYSVGCTDLMFDHTNKGTFLRLYYPSQDNDRLDTLWIPNKEYFWGLSKFLGT HWLMGNILRLLFGSMTTPANWNSPLRPGEKYPLVVFSHGLGAFRTLYSAIGIDLASHGFIVAAVEHRD RSASATYYFKDQSAAEIGDKSWLYLRTLKQEEETHIRNEQVRQRAKECSQALSLILDIDHGKPVKNALD LKFDMEQLKDSIDREKIAVIGHSFGGATVIQTLSEDQRFRCGIALDAWMFPLGDEVYSRIPQPLFFINSE YFQYPANIIKMKKCYSPDKERKMITIRGSVHQNFADFTFATGKIIGHMLKLKGDIDSNVAIDLSNKASLA FLQKHLGLHKDFDQWDCLIEGDDENLIPGTNINTTNQHI

>3C1JA

APAVADKADNAFMMICTALVLFMTIPGIALFYGGLIRGKNVLSMLTQVTVTFALVCILWVVYGYSLAF GEGNNFFGNINWLMLKNIELTAVMGSIYQYIHVAFQGSAACITVGLIVGALAERIRFSAVLIFVVVWLT LSYIPIAHMVWGGGLLASHGALDFAGGTVVHINAAIAGLVGAYLIGKRVGFGKEAFKPHNLPMVFTGT AILYIGWFGANAGSAGTANEIAALAFVNTVVATAAAILGWIFGEWALRGKPSLLGACSGAIAGLVGVT PACGYIGVGGALIIGVVAGLAGLWGVTMLKRLLRVDDPCDVFGVHGVCGIVGCIMTGIFAASSLGGV GFAEGVTMGHQLLVQLESIAITIVWSGVVAFIGYKLADLTVGLRVPEEQEREGLDVNSHGENAYNAD QAQQPAQADLEHHHHHH

>2I49A

GHMAGNPPDPNAASTGTNPSPQAAGDISPEMMPETANIKLGYIPIVEAAPLIIAQEKGFFAKYGMTG VEVSKQANWASARDNVTIGSQGGIDGGQWQMPMPHLITEGIITNGNKVPMYVLAQLITQGNGIA VAPMHEGKGVNLDITKAADYIKGFNKTNGRKFKAAHTFPNVNQDFWIRYWFAAGGVDPDTDIDLLA VPPAETVQGMRNGTMDAFSTGDPWPYRIVTENIGYMAGLTAQIWPYHPEEYLAIRADWVDKNPKA TKALLKGIMEAQQWIDDPKNRPEVVQIVSGRNYFNVPTTILESPFKGQYTMGDGQPAIDDFQKGPLY WKDGIGNVSYPYKSHDLWFLTESIRWGFHKNAIPDLDTAQKIIDKVNREDLWREAATEAGFTADIPSS TSRGVETFFDGITFDPANPSAYLOSLAIKKV

>2COVD

MGTEPPENCQDDFNFNYVSDQEIEVYHVDKGWSAGWNYVCLNDYCLPGNKSNGAFRKTFNAVLG QDYKLTFKVEDRYGQGQQILDRNITFTTQVCNLEHHHHHH

>2GAGD

MMLIDCPNCGPRNENEFKYGGEAHVAYPADPHALSDKQWSRYLFYRQNKKGIFAERWVHAAGCRK WFNALRDTVTYEFKAIYPAGAPRPEIHSAEGGTR

>2IA7A

>20A2A

>207AA

GSLHEEADHRVTDHGPRPFVVNIEDETKRNRAFRRALWTGDHLQVTLXSIQVGEDIGLEIHPHLDQFL RVEEGRGLVQXGHRQDNLHFQEEVFDDYAILIPAGTWHNVRNTGNRPLKLYSIYAPPQHPHGTVHE TKAIAXAAEEHHHL

GGPGNEKLKEKENNDSSDKATVIPNFNTTMQGSLLGDDSRDYYSFEVKEEGEVNIELDKKDEFGVTW TLHPESNINDRITYGQVDGNKVSNKVKLRPGKYYLLVYKYSGSGNYELRVNK

>2ZCMA

XHHHHHHXKDKIIDNAITLFSEKGYDGTTLDDISKSVNIKKASLYYHYDNKEEIYRKSVENCFNYFIDFXX RNHDDNYSIDGLYQFLFKFIFDVDERYIKLYVQLSSAPEALNSEIKHHLQEINTTLHDELIKYYDPTHIAL DKEDFINXILXFLETWYFRASFSQKFGIIEDSKNRFKDQVYSLLNVFLKK

>3FJSA

GXSLPHLSSGEVASVLPLGKQLTQTPSAALFKEHRLEVXRXVLPAGKQVGSHSVAGPSTIQCLEGEVEI GVDGAQRRLHQGDLLYLGAGAAHDVNAITNTSLLVTVVLVDRGGS

>3ET4A

>1NZJA

MTDTQYIGRFAPSPSGELHFGSLIAALGSYLQARARQGRWLVRIEDIDPPREVPGAAETILRQLEHYGL HWDGDVLWQSQRHDAYREALAWLHEQGLSYYCTCTRARIQSIGGIYDGHCRVLHHGPDNAAVRIR QQHPVTQFTDQLRGIIHADEKLAREDFIIHRRDGLFAYNLAVVVDDHFQGVTEIVRGADLIEPTVRQIS LYQLFGWKVPDYIHLPLALNPQGAKLSKQNHAPALPKGDPRPVLIAALQFLGQQAEAHWQDFSVEQ ILQSAVKNWRLTAVPESAIVNSTFSNASC

ANLERTFIAIKPDGVQRGLVGEIIKRFEQKGFRLVAMKFLRASEEHLKQHYIDLKDRPFFPGLVKYMNSG PVVAMVWEGLNVVKTGRVMLGETNPADSKPGTIRGDFCIQVGRNIIHGSDSVKSAEKEISLWFKPEEL VDYKSCAHDWVYE

>1PQHA

MRGSHHHHHHGLVPRGSMIRTMLQGKLHRVKVTHADLHYEGTCAIDQDFLDAAGILENEAIDIWN VTNGKRFSTYAIAAERGSRIISVNGAAAHXASVGDIVIIASFVTMPDEEARTWRPNVAYFEGDNEMKR TAKAIPVQVA

MENGKRDRQDMEVNTTPRKPRVLLAASGSVAAIKFGNLCHCFTEWAEVRAVVTKSSLHFLDKLSLPQ EVTLYTDEDEWSSWNKIGDPVLHIELRRWADVLVIAPLSANTLGKIAGGLCDNLLTCIIRAWDYTKPLF VAPAMNTLMWNNPFTERHLLSLDELGITLIPPIKKRLASGDYGNGAMAEPSLIYSTVRLFWESQAHQ OTGGTS

XAHHHHHHXSLAVEAVKDFLLKLQDDICEALEAEDGQATFVEDKWTREGGGGGRTRVXVDGAVIEK GGVNFSHVYGKGLPXSSTERHPDIAGCNFEAXGVSLVIHPKNPHVPTSHANVRLFVAEREGKEPVWW FGGGFDLTPYYAVEEDCRDFHQVAQDLCKPFGADVYARFKGWCDEYFFIPYRNEARGIGGLFFDDLN EWPFEKCFEFVQAVGKGYXDAYIPIVNRRKNTPYTEQQVEFQEFRRGRYAEFNLVIDRGTKFGLQSGG RTESILISLPPRARWGYNWOPEPGTPEARLTEYFLTKROWV

>2QEEA

MSLSINSREVLAEKVKNAVNNQPVTDMHTHLFSPNFGEILLWDIDELLTYHYLVAEVMRWTDVSIEAF WAMSKREQADLIWEELFIKRSPVSEACRGVLTCLQGLGLDPATRDLQVYREYFAKKTSEEQVDTVLQL ANVSDVVMTNDPFDDNERISWLEGKQPDSRFHAALRLDPLLNEYEQTKHRLRDWGYKVNDEWNE GSIQEVKRFLTDWIERMDPVYMAVSLPPTFSFPEESNRGRIIRDCLLPVAEKHNIPFAMMIGVKKRVHP ALGDAGDFVGKASMDGVEHLLREYPNNKFLVTMLSRENQHELVVLARKFSNLMIFGCWWFMNNPE IINEMTRMRMEMLGTSFIPQHSDARVLEQLIYKWHHSKSIIAEVLIDKYDDILQAGWEVTEEEIKRDVA DLFSRNFWRFVGRNDHVTSVKVEQQTEGHHHHHH

>3BJEA

MAHHHHHHMAASANGSTKGSETDLPIGKDGTTLHLKCKSDELADRIIFVGDPGRVDVISGYFDKDSIR ASRDHREIRFATGTYKGTPVTVISTGMGVDNIEIVLNEIHALKEYDMERGQWRHRKGDADAPSAGPFF DPSTMKIIRLGTCGSPAESVPPLALAVTRHAIGMDNTSLYYSAGTRETSKDQQEIRRIVREQTGLRAIDI YTSMAHPNITKSICAACDAHNAATGSEADKQQYVIGTTATASGFYGCQGRRVGRFMKHLTVPNMV EELGSLKFNLSNGVEVVTNIEMETSAICYLSDMLGYQAGAACVVVSKRVGEKKMFLGDQLDAAMKR CIKIILEALVSA

>3C96A

MSEPIDILIAGAGIGGLSCALALHQAGIGKVTLLESSSEIRPLGVGINIQPAAVEALAELGLGPALAATAIP THELRYIDQSGATVWSEPRGVEAGNAYPQYSIHRGELQMILLAAVRERLGQQAVRTGLGVERIEERD GRVLIGARDGHGKPQALGADVLVGADGIHSAVRAHLHPDQRPLSHGGITMWRGVTEFDRFLDGKT MIVANDEHWSRLVAYPISARHAAEGKSLVNWVCMVPSAAVGQLDNEADWNRDGRLEDVLPFFAD WDLGWFDIRDLLTRNQLILQYPMVDRDPLPHWGRGRITLLGDAAHLMYPMGANGASQAILDGIELA AALARNADVAAALREYEEARRPTANKIILANREREKEEWAAASRPKTEKSAALEAITGSYRNQVERPRL EHHHHHH

>1SG4A

>1F0LA

GADDVVDSSKSFVMENFSSYHGTKPGYVDSIQKGIQKPKSGTQGNYDDDWKGFYSTDNKYDAAGY SVDNENPLSGKAGGVVKVTYPGLTKVLALKVDNAETIKKELGLSLTEPLMEQVGTEEFIKRFGDGASRV VLSLPFAEGSSSVEYINNWEQAKALSVELEINFETRGKRGQDAMYEYMAQACAGNRVRRSVGSSLSCI NLDWDVIRDKTKTKIESLKEHGPIKNKMSESPNKTVSEEKAKQYLEEFHQTALEHPELSELKTVTGTNPV FAGANYAAWAVNVAQVIDSETADNLEKTTAALSILPGIGSVMGIADGAVHHNTEEIVAQSIALSSLM VAQAIPLVGELVDIGFAAYNFVESIINLFQVVHNSYNRPAYSPGHKTQPFLHDGYAVSWNTVEDSIIRT GFQGESGHDIKITAENTPLPIAGVLLPTIPGKLDVNKSKTHISVNGRKIRMRCRAIDGDVTFCRPKSPVY VGNGVHANLHVAFHRSSSEKIHSNEISSDSIGVLGYQKTVDHTKVNSKLSLFFEIKS 000000000

>2BKYA

MSSGTPTPSNVVLIGKKPVMNYVLAALTLLNQGVSEIVIKARGRAISKAVDTVEIVRNRFLPDKIEIKEIR VGSQVVTSQDGRQSRVSTIEIAIRKK

>2IWAA

RPSSRVYIVEVLNEFPHDPYAFTQGLVYAENDTLFESTGLYGRSSVRQVALQTGKVENIHKMDDSYFG EGLTLLNEKLYQVVWLKNIGFIYDRRTLSNIKNFTHQMKDGWGLATDGKILYGSDGTSILYEIDPHTFKL IKKHNVKYNGHRVIRLNELEYINGEVWANIWQTDCIARISAKDGTLLGWILLPNLRKKLIDEGFRDIDVL NGIAWDOENKRIFVTGKLWPKLFEIKLHLVRHRIPDGYIERHCLNLRDNTLSLKTDID

>1117A

SIRLPAHLRLQPIYWSRDDVAQWLKWAENEFSLRPIDSNTFEXNGKALLLLTKEDFRYRSPHSGDELYE LLQHILKQRDHHHHHHHHRHD

>1LMLA

VVRDVNWGALRIAVSTEDLTDPAYHCARVGQHVKDHAGAIVTCTAEDILTNEKRDILVKHLIPQAVQ LHTERLKVQQVQGKWKVTDMVGDICGDFKVPQAHITEGFSNTDFVMYVASVPSEEGVLAWATTCQ TFSDGHPAVGVINIPAANIASRYDQLVTRVVTHEMAHALGFSGPFFEDARIVANVPNVRGKNFDVPVI NSSTAVAKAREQYGCDTLEYLEVEDQGGAGSAGSHIKMRNAQDELMAPAAAAGYYTALTMAIFQD LGFYQADFSKAEVMPWGQNAGCAFLTNKCMEQSVTQWPAMFCNESEDAIRCPTSRLSLGACGVTR HPGLPPYWQYFTDPSLAGVSAFMDYCPVVVPYSDGSCTQRASEAHASLLPFNVFSDAARCIDGAFRP KATDGIVKSYAGLCANVQCDTATRTYSVQVHGSNDYTNCTPGLRVELSTVSNAFEGGGYITCPPYVE VCQGNVQAAKDGGN

>2FSUA

XRGSHHHHHHGSGSXGXTLETAFXLPVQDAQHSFRRLLKAXSEPGVIVALHQLKRGWQPLNIATTSV LLTLADNDTPVWLSTPLNNDIVNQSLRFHTNAPLVSQPEQATFAVTDEAISSEQLNALSTGTAVAPEA GATLILQVASLSGGRXLRLTGAGIAEERXIAPQLPECILHELTERPHPFPLGIDLILTCGERLLAIPRTTHVE VC

>1RQBA

XAISRELVDPNSSPREIEVSEPREVGITELVLRDAHOSLXATRXAXEDXVGACADIDAAGYWSVECWG

>10JHA

TTILKHLPVGQRIGIAFSGGLDTSAALLWMRQKGAVPYAYTANLGQPDEEDYDAIPRRAMEYGAENA RLIDCRKQLVAEGIAAIQCGAFHNTTGGLTYFNTTPLGRAVTGTMLVAAMKEDGVNIWGDGSTYKG NDIERFYRYGLLTNAELQIYKPWLDTDFIDELGGRHEMSEFMIACGFDYKMSVEKAYSTDSNMLGATH EAKDLEYLNSSVKIVNPIMGVKFWDESVKIPAEEVTVRFEQGHPVALNGKTFSDDVEMMLEANRIGGR HGLGMSDQIENRIIEAKSRGIYEAPGMALLHIAYERLLTGIHNEDTIEQYHAHGRQLGRLLYQGRWFDS QALMLRDSLQRWVASQITGEVTLELRRGNDYSILNTVSENLTYKPERLTMEKGDSVFSPDDRIGQLTM RNLDITDTREKLFGYAKTGLLSSSAASGVPQVENLENKGQSVEHHHHHH

>2JH1A

VGPEAYGEASHSHSPASGRYIQQMLDQRCQEIAAELCQSGLRKMCVPSSRIVARNAVGITHQNTLQ WRCFDTASLLESNQENNGVNCVDDCGHTIPCPGGVHRQNSNHATRHEILSKLVEEGVQRFCSPYQ ASANKYCNDKFPGTIARRSKGFGNNVEVAWRCYEKASLLYSVYAECASNCGTTWYCPGGRRGTSTEL DKRHYTEEEGIRQAIGSVDSPCSEVEVCLPKDENPPLCLDESGQISRT

>2A9IA

MNKPLTPSTYIRNLNVGILRKLSDFIDPQEGWKKLAVAIKKPSGDDRYNQFHIRRFEALLQTGLSPTCEL

LFDWGTTNCTVGDLVDLLVQIELFAPATLLLPDAVPQTVKSLP

>1DC1A

MNTQKPFENHLKSVDDLKTTYEEYRAGFIAFALEKNKRSTPYIERARALKVAASVAKTPKDLLYLEDIQD ALLYASGISDKAKKFLTEDDKKESINNLIENFLEPAGEEFIDELIFRYLLFQGDSLGGTMRNIAGALAQQK LTRAIISALDIANIPYKWLDSRDKKYTNWMDKPEDDYELETFAKGISWTINGKHRTLMYNITVSLVKKN VDICLFNCEPEIYTPQKVHQQPEKYLLLGELKGGIDPAGADEHWKTANTALTRIRNKFSEKGLSPKTIFI GAAIEHSMAEEIWDQLQSGSLTNSANLTKTEQVGSLCRWIINI

>2A3NA

XGSDKIHHHHHHXNNQEKNXLGFNQDEYLTSAREIIAARQKAEQVADEIYQAGFSSLFFASVGGSLA PXXAINEFAKELTTLPVYVEQAAELIHKGNKRLNKDSVVITLSKSGDTKESVAIAEWCKAQGIRVVAITK NADSPLAQAATWHIPXRHKNGVEYEYXLLYWLFFRVLSRNNEFASYDRFASQLEILPANLLKAKQKFD PQADAIASRYHNSDYXXWVGGAEXWGEVYLFSXCILEEXQWKRTRPVSSAEFFHGALELLEKDVPLIL VKGEGKCRALDERVERFASKITDNLVVIDPKAYALDGIDDEFRWIXAPCVVSTLLVDRLAAHFEKYTGH SLDIRRYYROFDY

>1P6OA

GSSMVTGGMASKWDQKGMDIAYEEAALGYKEGGVPIGGCLINNKDGSVLGRGHNMRFQKGSATL HGEISTLENCGRLEGKVYKDTTLYTTLSPCDMCTGAIIMYGIPRCVVGENVNFKSKGEKYLQTRGHEVV VVDDERCKKIMKQFIDERPQDWFEDIGE

>2IM9A

SLSQTTNIKEQTDTGLAPPAPAITTNSAAIEEQANSSIRKLYHTLNTMPNTSMADRISQISAYFKGTKYIL GSLGEGPNARYDQFPRYRVDGFDCDTYVNTVLSLALANSLESFQECLKHTRYKNGKRSYINRNHFTSI DWNNYNQKRGLLKDITFSIRNEKKQPVALYANALINKPQWYNHKTIDTIRLQKQDKNEQEKRLVELK AKGKTLETSLSNVPYIPFTALFSENKPNLHLFSQIPNGAVIEIIRPNWDLRQQIGTELDISHLGFAIWINN ELFFRQASSQYGKVVDVSLIDYLDKARSSPTIKGINIQVVLPEKPVSNGCQLFDIR

>2RA9A

GQHTLKQFAADSALTTTTPLCSEVPLFDINALGDWTYLGTSLPAKFAKLFASILHCIDDEYFLITPVEKVR VQVEDAPLLIVDFERAQPHSLLNVSTSIGTLHHNVDIKQXKLTDDSVYLPLERGLWGKLGRACYYNFV NEFNLSDLNEO

>1S5DA

NDDKLYRADSRPPDEIKQSGGLMPRGQSESFDRGTQMNINLYDHARGTQTGFVRHDDGYVSTSISL RSAHLVGQTILSGHSTYYIYVIATAPNMFNVNDVLGAYSPHPDEQEVSALGGIPYSQIYGWYRVHFGV LDEQLHRNRGYRDRYYSNLDIAPAADGYGLAGFPPEHRAWREEPWIHHAPPGCGNAPRSSMSNTC DEKTQSLGVKFLDEYQSKVKRQIFSGYQSDIDTHNRIKDEL

>2ARCA

DPLLPGYSFNAHLVAGLTPIEANGYLDFFIDRPLGMKGYILNLTIRGQGVVKNQGREFVCRPGDILLFPP GEIHHYGRHPEAREWYHQWVYFRPRAYWHEWLNWPSIFANTGFFRPDEAHQPHFSDLFGQIINAG QGEGRYSELLAINLLEQLLLRRMEAINES

>2FCLA

MGSDXIHHHHHHMIRPEYLRVLRXIYDRLXNEXVNWVVTGSLSFALQGVPVEVHDIDIQTDEEGAYEI ERIFSEFVSXXVRFSSTEXICSHFGELIIDGIXVEIMGDIRXRLEDGTWEDPVDLNXYXRFVETHGMXIPVL SLEYEYQAYLXLGRVEXAETLRXWLNERX

>2Z14A

>2P51A

GMNSNFSYPALGVDGISSQISPIRDVWSTNLQQEMNLIMSLIERYPVVSMDTEFPGVVARPLGVFKSS DDYHYQTLRANVDSLKIIQIGLALSDEEGNAPVEACTWQFNFTFNLQDDMYAPESIELLTKSGIDFKKH QEVGIEPADFAELLIGSGLVLQEEVTWITFHSGYDFAYLLKAMTQIPLPAEYEEFYKILCIYFPKNYDIKYI MKSVLNNSKGLQDIADDLQIHRIGPQHQAGSDALLTARIFFEIRSRYFDGSIDSRMLNQLYGLGSTGS

VLWHNNSSTPQIQFRDLPGAHPSPTPSNAGIPTTLTNTSSAPNFANSTFRFPPRVV

>1FCOA

TPDNNKTVREFNVYWNVPTFMCHKYGLRFEEVSEKYGILQNWMDKFRGEEIAILYDPGMFPALLKDP NGNVVARNGGVPQLGNLTKHLQVFRDHLINQIPDKSFPGVGVIDFESWRPIFRQNWASLQPYKKLS VEVVRREHPFWDDQRVEQEAKRRFEKYGQLFMEETLKAAKRMRPAANWGYYAYPYCYNLTPNQPS AQCEATTMQENDKMSWLFESEDVLLPSVYLRWNLTSGERVGLVGGRVKEALRIARQMTTSRKKVLP YYWYKYQDRRDTDLSRADLEATLRKITDLGADGFIIWGSSDDINTKAKCLQFREYLNNELGPAVKRIAL NNNANDRLTVDVSVDQV

>2CJSC

AETTNTQQAHTQMSTQSQDVSYGTYYTIDSNGDYHHTPDGNWNQAMFDNKEYSYTFVDAQGHT HYFYNCYPKNANANGSGQTYVNPATAGDNNDYTASQSQQHINQYGYQSNVGPDASYYSHSNNN QAYNSHDGNGKVNYPNGTSNQNGGSASKATASGHAKDASWLTSRKQLQPYGQYHGGGAHYGV DYAMPENSPVYSLTDGTVVQAGWSNYGGGNQVTIKEANSNNYQWYMHNNRLTVSAGDKVKAG DQIAYSGSTGNSTAPHVHFQRMSGGIGNQYAVDPTSYLQSR

MKTWPAPTAPTPVRATVTVPGSKSQTNRALVLAALAAAQGRGASTISGALRSRDTELMLDALQTLGL RVDGVGSELTVSGRIEPGPGARVDCGLAGTVLRFVPPLAALGSVPVTFDGDQQARGRPIAPLLDALRE LGVAVDGTGLPFRVRGNGSLAGGTVAIDASASSQFVSGLLLSAASFTDGLTVQHTGSSLPSAPHIAMT AAMLRQAGVDIDDSTPNRWQVRPGPVAARRWDIEPDLTNAVAFLSAAVVSGGTVRITGWPRVSVQ PADHILAILRQLNAVVIHADSSLEVRGPTGYDGFDVDLRAVGELTPSVAALAALASPGSVSRLSGIAHL RGHETDRLAALSTEINRLGGTCRETPDGLVITATPLRPGIWRAYADHRMAMAGAIIGLRVAGVEVDDI AATTKTLPEFPRLWAEMVGPGQGWGYPQPRSGQRARRATGQGSGG

TGMSREEVESLIQEVLEVYPEKARKDRNKHLAVNDPAVTQSKKCIISNKKSQPGLMTIRGCAYAGSKG VVWGPIKDMIHISHGPVGCGQYSRAGRRNYYIGTTGVNAFVTMNFTSDFQEKDIVFGGDKKLAKLID EVETLFPLNKGISVQSECPIGLIGDDIESVSKVKGAELSKTIVPVRCEGFRGVSQSLGHHIANDAVRDWV LGKRDEDTTFASTPYDVAIIGDYNIGGDAWSSRILLEEMGLRCVAQWSGDGSISEIELTPKVKLNLVHC YRSMNYISRHMEEKYGIPWMEYNFFGPTKTIESLRAIAAKFDESIQKKCEEVIAKYKPEWEAVVAKYRPR LEGKRVMLYIGGLRPRHVIGAYEDLGMEVVGTGYEFAHNDDYDRTMKEMGDSTLLYDDVTGYEFEEF VKRIKPDLIGSGIKEKFIFQKMGIPFREMHSWDYSGPYHGFDGFAIFARDMDMTLNNPCWKKLQAPW EASEGAEKVAASA

>20X7A

MSLIPKFRAWDTYEKEXLENVTPLFDDSNSXIAIITDFQIKGSPGTSEIEIGSYDTTFNWDEFPYVIXQSTG LKDKNGVEIFEGDILVYDAPKKYAHRRSXHEIAYADGRFFWEFLDLVFCQSNILYRDGYLVIGNIHENPE LLEGNEGHHHHHH

>2OB5A

YFQGXLKNIDPALNADVLHALRAXGHGDTLVISDTNFPSDSVARQTTVGKVLHIDNVSAARAXKAILS VLPLDTPLQPSVGRXEVXGAPDQLEPVQVEVQQEIDAAEGKSAPXYGIERFAFYEKAKQAYCVITTGET RFYGCFLLTKGVIPPK

>1VYKA

EARPIVVGPPPPLSGGLPGTENSDQARDGTLPYTKDRFYLQPLPPTEAAQRAKVSASEILNVKQFIDRK AWPSLQNDLRLRASYLRYDLKTVISAKPKDEKKSLQELTSKLFSSIDNLDHAAKIKSPTEAEKYYGQTVS NINEVLAKLG

GSPEFGTRDRMLVLVLGDLHIPHRCNSLPAKFKKLLVPGKIQHILCTGNLCTKESYDYLKTLAGDVHIVR GDFDENLNYPEQKVVTVGQFKIGLIHGHQVIPWGDMASLALLQRQFDVDILISGHTHKFEAFEHENK FYINPGSATGAYNALETNIIPSFVLMDIQASTVVTYVYQLIGDDVKVERIEYKKS

>2QKHA

GSSHHHHHHSSGLVPRGSHMETGSKGQTAGELYQRWERYRRECQETLAAAEPPSGLACNGSFDMY VCWDYAAPNATARASCPWYLPWHHHVAAGFVLRQCGSDGQWGLWRDHTQCENPEKNEAFLDQ RLILERLO

>1ZGKA

GSSHHHHHHSSGLVPRGSHAPKVGRLIYTAGGYFRQSLSYLEAYNPSNGTWLRLADLQVPRSGLAG CVVGGLLYAVGGRNNSPDGNTDSSALDCYNPXTNQWSPCAPXSVPRNRIGVGVIDGHIYAVGGSH GCIHHNSVERYEPERDEWHLVAPXLTRRIGVGVAVLNRLLYAVGGFDGTNRLNSAECYYPERNEWRX ITAXNTIRSGAGVCVLHNCIYAAGGYDGQDQLNSVERYDVETETWTFVAPXKHRRSALGITVHQGRI YVLGGYDGHTFLDSVECYDPDTDTWSEVTRXTSGRSGVGVAVT

>2GZ6A

MGKNLQALAQLYKNALLNDVLPFWENHSLDSEGGYFTCLDRQGKVYDTDKFIWLQNRQVWTFSM LCNQLEKRENWLKIARNGAKFLAQHGRDDEGNWYFALTRGGEPLVQPYNIFSDCFAAMAFSQYALA SGEEWAKDVAMQAYNNVLRRKDNPKGKYTKTYPGTRPMKALAVPMILANLTLEMEWLLPQETLEN VLAATVQEVMGDFLDQEQGLMYENVAPDGSHIDCFEGRLINPGHGIEAMWFIMDIARRKNDSKTIN QAVDVVLNILNFAWDNEYGGLYYFMDAAGHPPQQLEWDQKLWWVHLESLVALAMGYRLTGRDA CWAWYQKMHDYSWQHFADPEYGEWFGYLNRRGEVLLNLKGGKWKGCFHVPRAMYLCWQQFEA LS

>1WDDA

MSPQTETKASVGFKAGVKDYKLTYYTPEYETKDTDILAAFRVTPQPGVPPEEAGAAVAAESSTGTWTT VWTDGLTSLDRYKGRCYHIEPVVGEDNQYIAYVAYPLDLFEEGSVTNMFTSIVGNVFGFKALRALRLE DLRIPPTYSKTFQGPPHGIQVERDKLNKYGRPLLGCTIKPKLGLSAKNYGRACYECLRGGLDFTXDDEN VNSQPFMRWRDRFVFCAEAIYKSQAETGEIKGHYLNATAGTCEEMIKRAVFARELGVPIVMHDYLTG GFTANTSLAHYCRDNGLLLHIHRAMHAVIDRQKNHGMHFRVLAKALRMSGGDHIHAGTVVGKLEG EREMTLGFVDLLRDDFIEKDRARGIFFTQDWVSMPGVIPVASGGIHVWHMPALTEIFGDDSVLQFGG GTLGHPWGNAPGAAANRVALEACVQARNEGRDLAREGNEIIRSACKWSPELAAACEIWKAIKFEFEP VDKLDS

>1N3LA

MGDAPSPEEKLHLITRNLQEVLGEEKLKEILKERELKIYWGTATTGKPHVAYFVPMSKIADFLKAGCEVTI LFADLHAYLDNMKAPWELLELRVSYYENVIKAMLESIGVPLEKLKFIKGTDYQLSKEYTLDVYRLSSVVT QHDSKKAGAEVVKQVEHPLLSGLLYPGLQALDEEYLKVDAQFGGIDQRKIFTFAEKYLPALGYSKRVH LMNPMVPGLTGSKMSSSEEESKIDLLDRKEDVKKKLKKAFCEPGNVENNGVLSFIKHVLFPLKSEFVILR DEKWGGNKTYTAYVDLEKDFAAEVVHPGDLKNSVEVALNKLLDPIREKFNTPALKKLASAAYPDPSK OKPMAKGPAKNSEPEEVILEHHHHHH

GXSDHVCQEGCRHHSHGEDSPEIQQEFQEGRRDFXRDFAVGGVLASAASLGISSSAFGQTXPKTGLT SGHATHYYIPASDKTVSWGFFSKSLKPVVELESGDFATIETLTHHSNDDASLXVKGDPGAESVFYWDS KRKNVDRRGXGPXDHKLGAGGGXGVHILTGPVAIKGAEPGDVLEVRIVDVALRPSANPEFKGKTFGS NVAANWGFHYNELIEEPKKREVVTIYELDATGERNWARAFYNYRWTPQKDPFGVVHPIVDYPGVPV DHSTISKNYNVLKNIRVPVRPHFGTXGLAPKEADLVNSVPPSHFGGNIDNWRIGKGATXYYPVSVAG GLFSVGDPHASQGDSEXCGTAIECSLTGTFQFILHKKADLPGTPLADLQYPLLETQDEWVLHGFSYAN YLAELGPDAQNSIFSKSSLDLALKDAFRKXRHFLXQTQNLTEDEAVSLXSIGVDFGITQVVDGNWGVH AVVKKGIFPGRDV

>2R1IA

GXDAGRGAEHDEAVTSDDSASVEVPRRATPADAATVAQXLHDFNTEFGAPTPGTDELASRLSHLLA GEDVVVLLAGEPPTGLAVLSFRPNVWYPGPVAILDELYVRPGRRGHRLGSALLAASCGLVRSRGGALL EINVDGEDTDARRFYEARGFTNTEPNGTEPXLYYYREL

>1K2XB

TVGAVALDLDGNLAAATSTGGMTNKLPGRVGDSPLVGAGCYANNASVAVSCTGTGEVFIRALAAYD IAALMDYGGLSLAEACERVVMEKLPALGGSGGLIAIDHEGNVALPFNTEGMYRAWGYAGDTPTTGIY REKGDTVATQ

>2ZEXA

GAHMVNMVSNPGFEDGLDSWQDWQQDMSAVPEAAHNGALGLKIGGGKAAGGGQDIPLKPNTT YILGAWAKFDSKPAGTFDVVVQYHLKDANNTYVQHILNFNETDWTYKQLLFTTPDVFGSTPQLALW KGDTSKANLYVDDVYLVEV

GSDEAAELMQQVNVLKLTVEDLEKERDFYFGKLRNIELICQENEGENDPVLQRIVDILYATDEGFVIPD EGGPOEEOEEY

>2PSTX

GHMTSVFDRDDIQFQVVVNHEEQYSIWPEYKEIPQGWRAAGKSGLKKDCLAYIEEVWTDMRPLSLR OHMDKAAG

MAQQKKTIAVVGATGRQGASLIRVAAAVGHHVRAQVHSLKGLIAEELQAIPNVTLFQGPLLNNVPL MDTLFEGAHLAFINTTSQAGDEIAIGKDLADAAKRAGTIQHYIYSSMPDHSLYGPWPAVPMWAPKFT VENYVRQLGLPSTFVYAGIYNNNFTSLPYPLFQMELMPDGTFEWHAPFDPDIPLPWLDAEHDVGPAL LQIFKDGPQKWNGHRIALTFETLSPVQVCAAFSRALNRRVTYVQVPKVEIKVNIPVGYREQLEAIEVVF GEHKAPYFPLPEFSRPAAGSPKGLGPANGKGAGAGMMQGPGGVISQRVTDEARKLWSGWRDMEE YAREVFPIEEEANGLDWML

>1R88A

MAEPTAKAAPYENLMVPSPSMGRDIPVAFLAGGPHAVYLLDAFNAGPDVSNWVTAGNAMNTLAG KGISVVAPAGGAYSMYTNWEQDGSKQWDTFLSAELPDWLAANRGLAPGGHAAVGAAQGGYGAM ALAAFHPDRFGFAGSMSGFLYPSNTTTNGAIAAGMQQFGGVDTNGMWGAPQLGRWKWHDPWV HASLLAQNNTRVWVWSPTNPGASDPAAMIGQAAEAMGNSRMFYNQYRSVGGHNGHFDFPASG DNGWGSWAPQLGAMSGDIVGAIRHHHHHH

>1P90A

ERVPEGSIRVAIASNNGEQLDGHFGSCLRFLVYQVSAKDASLVDIRSTLDVALAEDKNAWRVEQIQD CQVLYVVSIGGPAAAKVVRAGIHPLKKPKGCAAQEAIAELQTVMAGSPPPWLAKLVGVSAEERVRFS VSDDEDEAARA

MTDVIKPDYLEYDDLLDRDEMFTILEEYFMYRGLLGLRIKYGRLFNEIKKFDNDAEEQFGTIEELKQKLRL NSEEGADNFIDYIKVQKQDIVKLTVYDCISMIGLCACVVDVWRNEKLFSRWKYCLRAIKLFINDHMLD KIKSILQNRLVYVEMSKHHHHHH

>2174A

>3FLAA

>2HQSC

>2V4XA

PVFENNNQRYYESLPFKQLKELKIACSQYGPTAPFTIAXIENLGTQALPPNDWKQTARACLSGGDYLL WKSEFFEQCARIADVNRQQGIQTSYEXLIGEGPYQATDTQLNFLPGAYAQISNAARQAWKRLPSLEH HHHHH

>2P02A

SMNGQLNGFHEAFIEEGTFLFTSESVGEGHPDKICDQISDAVLDAHLQQDPDAKVACETVAKTGMIL LAGEITSRAAVDYQKVVREAVKHIGYDDSSKGFDYKTCNVLVALEQQSPDIAQGVHLDRNEEDIGAG DQGLMFGYATDETEECMPLTIVLAHKLNAKLAELRRNGTLPWLRPDSKTQVTVQYMQDRGAVLPIR

>1UZEA

LVTDEAEASKFVEEYDRTSOVVWNEYAEANWNYNTNITTETSKILLOKNMOIANHTLKYGTOARKFD VNOLONTTIKRIIKKVODLERAALPAOELEEYNKILLDMETTYSVATVCHPNGSCLOLEPDLTNVMATS RKYEDLLWAWEGWRDKAGRAILQFYPKYVELINQAARLNGYVDAGDSWRSMYETPSLEQDLERLFQ ELQPLYLNLHAYVRRALHRHYGAQHINLEGPIPAHLLGNMWAQTWSNIYDLVVPFPSAPSMDTTEA MLKQGWTPRRMFKEADDFFTSLGLLPVPPEFWNKSMLEKPTDGREVVCHASAWDFYNGKDFRIKQ CTTVNLEDLVVAHHEMGHIQYFMQYKDLPVALREGANPGFHEAIGDVLALSVSTPKHLHSLNLLSSE GGSDEHDINFLMKMALDKIAFIPFSYLVDQWRWRVFDGSITKENYNQEWWSLRLKYQGLCPPVPRT OGDFDPGAKFHIPSSVPYIRYFVSFIIQFQFHEALCQAAGHTGPLHKCDIYQSKEAGQRLATAMKLGFS RPWPEAMQLITGQPNMSASAMLSYFKPLLDWLRTENELHGEKLGWPQYNWTPNS >1N93X

VEFGSMPPKRRLVDDADAMEDQDLYEPPASLPKLPGKFLQYTVGGSDPHPGIGHEKDIRQNAVALLD QSRRDMFHTVTPSLVFLCLLIPGLHAAFVHGGVPRESYLSTPVTRGEQTVVKTAKFYGEKTTQRDLTEL EISSIFSHCCSLLIGVVIGSSSKIKAGAEQIKKRFKTMMAALNRPSHGETATLLQMFNPHEAIDWINGQP WVGSFVLSLLTTDFESPGKEFMDQIKLVASYAQMTTYTTIKEYLAECMDATLTIPVVAYEIRDFLEVSAK LKEDHADLFPFLGAIRHPDAIKLAPRSFPNLASAAFYWSKKENPTMAGYRASTIQPGASVKETQLARYR RREISRGEDGAELSGEISAIMKMIGVTGLN

MASDKFPVAENPSSSFKYESAVQYRPAPDSYLNPCPQAGRIVKETYTGINGTKSLNVYLPYGYDPNKK YNIFYLMHGGGENENTIFSNDVKLQNILDHAIMNGELEPLIVVTPTFNGGNCTAQNFYQEFRQNVIPF VESKYSTYAESTTPQGIAASRMHRGFGGFAMGGLTTWYVMVNCLDYVAYFMPLSGDYWYGNSPQ DKANSIAEAINRSGLSKREYFVFAATGSEDIAYANMNPQIEAMKALPHFDYTSDFSKGNFYFLVAPGA

THWWGYVRHYIYDALPYFFHELEHHHHHH

SNAIYGYVEKATLIDQNLTLSAKLDTGAKSASLHAVNITEIEKKGIPYLRFTVPTKTGDYSFEGEYVGKVKI KVRSSETNPGLLRTTPIKRPVVLLNIKLGDKVRTIKVNLTNRKRFLYPLLLGRDAIIDFNGAVDPALTFTTK SK

MASPSSFTYYCPPSSSPVWSEPLYSLRPEHARERLQDDSVETVTSIEQAKVEEKIQEVFSSYKFNHLVPR LVLQREKHFHYLKRGLRQLTDAYECLDASRPWLCYWILHSLELLDEPIPQIVATDVCQFLELCQSPEGG FGGGPGQYPHLAPTYAAVNALCIIGTEEAYDIINREKLLQYLYSLKQPDGSFLMHVGGEVDVRSAYCA ASVASLTNIITPDLFEGTAEWIARCQNWEGGIGGVPGMEAHGGYTFCGLAALVILKRERSLNLKSLLQ WVTSRQMRFEGGFQGRCNKLVDGCYSFWQAGLLPLLHRALHAQGDPALSMSHWMFHQQALQEY ILMCCQCPAGGLLDKPGKSRDFYHTCYCLSGLSIAQHFGSGAMLHDVVLGVPENALQPTHPVYNIGP DKVIQATTYFLQKPVPGFEELKDETSAEPATD

GPGSGPGRGFGKRRHPKKLTPLAYKQFIPNVAEKTLGASGRYEGKITRNSERFKELTPNYNPDIIFKDEE NTGADRLMTQRCKDKLNALAISVMNQWPGVKLRVTEGWDEDGHHSEESLHYEGRAVDITTSDRDR SKYGMLARLAVEAGFDWVYYESKAHIHCSVKAE

>2P4FA

>3D1MA

MGSSHHHHHHSSGEDRYKEKLLQKAKAEGVESIEELKKRLADQIEEKKKELNKIDPLRELEQHLNAGSR IHTNKEHKTTKMSNKSNEKSGNVLPKDKPYKTLDDYLKLDKIKDLSKQEVEFLWRAKWSNRDDSLVA VVPYVKTFQGMYKYAVKNPLFVLPLPRENAADGNKADKDSVPVELQYVQWQFAGPNTVHCLITSLA EYKLHQDFAKPHTTIQFHLDLANDKDMVLMNGQVESDSNVSLQDAQLLLLNVQRFYGAMGSETSIA KERIQLLEDFNKGSQNFDINKLIQLAQSMEN

GXTISRNYDQEIKDTAGHKYAYNFDFDVXHPFXVRAFTPFFRPGNLLELGSFKGDFTSRLQEHFNDITC VEASEEAISHAQGRLKDGITYIHSRFEDAQLPRRYDNIVLTHVLEHIDDPVALLKRINDDWLAEGGRLFL VCPNANAVSRQIAVKXGIISHNSAVTEAEFAHGHRCTYALDTLERDASRAGLQVTYRSGIFFKALANF QWDQILQTDILSKEYLDGCYQLGQQYPDLCASIFLLCEKGINQ

>2P17A

XAIQRRIRRVKTVQXTTNSPIHRSGSVLEPGNWQEYDPFLLLXEDIFERGTFDVHPHRGIETVTYVISGEL EHFDSKAGHSTLGPGDVQWXTAGRGVVHKEDPASGSTVHSLQLWVNLPSAYKXTEPRYQNLRSKD XPVRKEEGATIRVFSGSSKGVKAPTKNIVPVTXVEXIVEPGTTVVQDLPGHYNGFLYILEGSGVFGADNI EGKAGQALFFSRHNRGEETELNVTAREKLRLLLYAGEPVNEPVVAYGPFVXNTPEQIREAIRDYQEGRF GR

>2GVKA

GXNPFQNSFGGHIPQDVAGKQGENVIFIVYNLTDSPDTVDKVKDVCANFSAXIRSXRNRFPDXQFSC TXGFGADAWTRLFPDKGKPKELSTFSEIKGEKYTAVSTPGDLLFHIRAKQXGLCFEFASILDEKLKGAVV SVDETHGFRYXDGKAIIGFVDGTENPAVDENPYHFAVIGEEDADFAGGSYVFVQKYIHDXVAWNALP VEQQEKVIGRHKFNDVELSDEEKPGNAHNAVTNIGDDLKIVRANXPFANTSKGEYGTYFIGYASTFST TRRXLENXFIGSPAGNTDRLLDFSTAITGTLFFVPSYDLLGELGE

>2QGYA

MSLNNQDISIGKLSRLKIWITDNHLSDDQWSNTKKFIIIKITTEDGIEGWGEAFSINFREKGIAIIIKELFREI SNIPNLSIKSFYNKISLLSDGHRGLDFSSATSAIEIALWDISGKLKNLPLNSLLTKSPKPNVPIYATCWSDL KKDTNDYLRQIEKFYGKKYGGIKIYPMLDSLSISIQFVEKVREIVGDELPLMLDLAVPEDLDQTKSFLKEV SSFNPYWIEEPVDGENISLLTEIKNTFNMKVVTGEKQSGLVHFRELISRNAADIFNPDISGMGGLIDIIEIS NEASNNGIFISPHCWNSMSVSASAMLHVCSSIPNSEKAEIFPDYINFSKKFCELPFDIIDNKAHINKSAG LGIVIHEDILSELSIYSLDEKSNDEGHHHHHH

>2V8HA

SKDVSSTITTVSASPDGTLNLPAAAPLSIASGRLNQTILETGSQFGGVARWGQESHEFGMRRLAGTAL DGAMRDWFTNECESLGCKVKVDKIGNMFAVYPGKNGGKPTATGSHLDTQPEAGKYDGILGVLAGL EVLRTFKDNNYVPNYDVCVVVWFNAEGARFARSCTGSSVWSHDLSLEEAYGLMSVGEDKPESVYDS LKNIGYIGDTPASYKENEIDAHFELHIEQGPILEDENKAIGIVTGVQAYNWQKVTVHGVGAHAGTTPW RLRKDALLMSSKMIVAASEIAQRHNGLFTCGIIDAKPYSVNIIPGEVSFTLDFRHPSDDVLATMLKEAAA EFDRLIKINDGGALSYESETLQVSPAVNFHEVCIECVSRSAFAQFKKDQVRQIWSGAGHDSCQTAPHV PTSMIFIPSKDGLSHNYYEYSSPEEIENGFKVLLQAIINYDNYRVIRGHQFPGDDDDKHHHHHHHHHSG

>1LTZA

MNDRADFVVPDITTRKNVGLSHDANDFTLPQPLDRYSAEDHATWATLYQRQCKLLPGRACDEFLEG LERLEVDADRVPDFNKLNEKLMAATGWKIVAVPGLIPDDVFFEHLANRRFPVTWWLREPHQLDYLQE PDVFHDLFGHVPLLINPVFADYLEAYGKGGVKAKALGALPMLARLYWYTVEFGLINTPAGMRIYGAGI LSSKSESIYCLDSASPNRVGFDLMRIMNTRYRIDTFQKTYFVIDSFKQLFDATAPDFAPLYLQLADAQP WGAGDIAPDDLVLNAGDHQGWADTEDV

GANTTETPVKDVELDGRWDDPIRSAATNCPITVFTDGYLLTLKNASPDRDXTIRITDXAKGGVVYENDI PEVOSAYITISIANFPAEEYKLEITGTPSGHLTGYFTKE

>1NWAA

MGHHHHHHHHHHSSGHIEGRHMTSNQKAILAGGCFWGLQDLIRNQPGVVSTRVGYSGGNIPNAT YRNHGTHAEAVEIIFDPTVTDYRTLLEFFFQIHDPTTKDRQGNDRGTSYRSAIFYFDEQQKRIALDTIAD VEASGLWPGKVVTEVSPAGDFWEAEPEHQDYLQRYPNGYTCHFVRPGWRLPRRTAESALRASLSPEL GT

>2E1ZA

MRGSHHHHHHGMASNEFPVVLVINCGSSSIKFSVLDVATCDVLMAGIADGMNTENAFLSINGDKPI NLAHSNYEDALKAIAFELEKRDLTDSVALIGHRIAHGGELFTQSVIITDEIIDNIRRVSPLAPLHNYANLS

GIDAARHLFPAVRQVAVFDTSFHQTLAPEAYLYGLPWEYFSSLGVRRYGFHGTSHRYVSRRAYELLDL DEKDSGLIVAHLGNGASICAVRNGQSVDTSMGMTPLEGLMMGTRSGDVDFGAMAWIAKETGQTLS DLERVVNKESGLLGISGLSSDLRVLEKAWHEGHERARLAIKTFVHRIARHIAGHAASLHRLDGIIFTGGIG ENSVLIRQLVIEHLGVLGLTLDVEMNKQPNSHGERIISANPSQVICAVIPTNEEKMIALDAIHLGNVKAP VEFA

>2B4WA

XKQVKAAFEANKRVYESVLLTFKGVDGYDVYNCSVPFSYKGKTHIYGRVEKRDIWAASHVRLFEETGK DEFTAVPELSWELEDPYIAKINNEXIFGGTRVRKNGNAILSYYGYFYRGTPDELTYFTRGPGCXKDIRVL QLQDGRLGVFSRPRVGRKASIGFVILNSIDELGAEVIAKAPPLDILSENAWGGVNQAYLLSSGKVGCIG HYSYEDTNEKQQPQSVYVNYAFVLDPQSRAITGAKIIGTKSCYPPCEPKVPLLADCVFASGIVXRSDGK VDLYSGVGDSHEGRITIDYPFKGHGTIIGDLHFPXASSL

>1LKIA

SPLPITPVNATCAIRHPCHGNLMNQIKNQLAQLNGSANALFISYYTAQGEPFPNNVEKLCAPNMTDF PSFHGNGTEKTKLVELYRMVAYLSASLTNITRDQKVLNPTAVSLQVKLNATIDVMRGLLSNVLCRLCN KYRVGHVDVPPVPDHSDKEAFQRKKLGCQLLGTYKQVISVVVQAF

>2UW1A

>2GLZA

GXCVEKTPWELVIDFHGHTCPDIALGYRIAQLAQREXGIRPAPDSECLVKAYTQSCALDAIQVLNKATI GRHALIIEETHRYXYQFHFTGTQDIHQFTVSPAVLDHLETLRHPDLSPRERQNKVLEGVQYVLTLEESA FCHYDKIPGQLSKIV

>2GUIA

SIEFSTAITRQIVLDTETTGMNQIGAHYEGHKIIEIGAVEVVNRRLTGNNFHVYLKPDRLVDPEAFGVHG IADEFLLDKPTFAEVADEFMDYIRGAELVIHNAAFDIGFMDYEFSLLKRDIPKTNTFCKVTDSLAVARKM FPGKRNSLDALCARYEIDNSKRTLHGALLDAQILAEVYLAMTGGQTSMATRESG

>2H98A

MELRHLRYFVTVVEEQSISKAAEKLCIAQPPLSRQIQKLEEELGIQLFERGFRPAKVTEAGMFFYQHAVQ ILTHTAQASSMAKRIATVSQTLRIGYVSSLLYGLLPEIIYLFRQQNPEIHIELIECGTKDQINALKQGKIDLG FGRLKITDPAIRRIMLHKEQLKLAIHKHHHLNQFAATGVHLSQIIDEPMLLYPVSQKPNFATFIQSLFTEL GLVPSKLTEIREIQLALGLVAAGEGVCIVPASAMDIGVKNLLYIPILDDDAYSPISLAVRNMDHSNYIPKI LACVQEVFATHHIRPLIESILEHHHHHH

>2G40A

MGSDKIHHHHHHMTTIPSTAEAKLEMLTTINRAIAGSRPEALPPYPVPAPLSRAEILHQFEDRILDYGA AYTHVSAAELPGAIAKALGNARRVIVPAGIPAPWLTVGMDVLRDEPPLSHAELDRADAVLTGCAVAIS ETGTIILDHRADQGRRALSLIPDFHICVVREDQIVQTVREGVEAVAASVREGRPLTWLSGGSATSDIELV RVEGVHGPRRLQVIVVG

SNARPAIRKRLLKPKVLDSSPRALVGHRAEVLEDVGATSGQVRLDGSIWSARSXDPTHTFAEGEIVSVI DIQGTTAIVWKEA

>2DHOA

MGHHHHHHMPEINTNHLDKQQVQLLAEMCILIDENDNKIGAETKKNCHLNENIEKGLLHRAFSVFLF NTENKLLLQQRSDAKITFPGCFTNTCCSHPLSNPAELEESDALGVRRAAQRRLKAELGIPLEEVPPEEIN YLTRIHYKAQSDGIWGEHEIDYILLVRMNVTLNPDPNEIKSYCYVSKEELKELLKKAASGEIKITPWFKIIA ATFLFKWWDNLNHLNQFVDHEKIYRM

>3EJNA

>2CXAA

XRGSHHHHHHTDPALRAXRLVQLSRHSIAFPSPEGALREPNGLLALGGDLSPARLLXAYQRGIFPWFS PGDPILWWSPDPRAVLWPESLHISRSXKRFHKRSPYRVTXNYAFGQVIEGCASDREEGTWITRGVVEA YHRLHELGHAHSIEVWREDELVGGXYGVAQGTLFCGESXFSRXENASKTALLVFCEEFIGHGGKLIDC QVLNDHTASLGACEIPRRDYLNYLNQXRLGRLPNNFWVPRCLFSPQEGLCGR

>1W5OA

>1VLPA

XGSDKIHHHHHHXSEPVIKSLLDTDXYKITXHAAVFTNFPDVTVTYKYTNRSSQLTFNKEAINWLKEQF SYLGNLRFTEEEIEYLKQEIPYLPSAYIKYISSSNYKLHPEEQISFTSEEIEGKPTHYKLKILVSGSWKDTILYEI PLLSLISEAYFKFVDIDWDYENQLEQAEKKAETLFDNGIRFSEFGTRRRRSLKAQDLIXQGIXKAVNGNP DRNKSLLLGTSNILFAKKYGVKPIGTVAHEWVXGVASISEDYLHANKNAXDCWINTFGAKNAGLALT DTFGTDDFLKSFRPPYSDAYVGVRQDSGDPVEYTKKISHHYHDVLKLPKFSKIICYSDSLNVEKAITYSH AAKENGXLATFGIGTNFTNDFRKKSEPQVKSEPLNIVIKLLEVNGNHAIKISDNLGKNXGDPATVKRVK FEI GYTERSWSGDNFAHRWT

SNAXNRLKNXSKYSDAKELASLTLGKKTEYANQYDPSLLQPVPRSLNRNDLHLSATLPFQGCDIWTLY ELSWLNQKGLPQVAIGEVSIPATSANLIESKSFKLYLNSYNQTRFASWDEVQTRLVHDLSACAGETVT VNVKSLNEYTAEPIVTXQGECIDDQDIEIANYEFDDALLQGAAQGEEVSEVLHSHLLKSNCLITNQPD WGSVEIAYHGAKXNREALLRYLVSFREHNEFHEQCVERIFTDIXRYCQPQSLTVYARYTRRGGLDINPF RSSHQSAPNHNQRXARQ

MRICLFLCLCLCMASPALAQVAVFPALSGKTDAQTLVVYSSLDEPLATPMIEGFQKANPDIAVHYEDM LTGEIYDRIVKETDAGKKTADFAFSSAMDLQVKLSNDGYAQRSDLAMSARWPAWANWRNTAYALT FEPAVFVYHKPSFTTEKPPATRAEFVDYLERHAKEVHGRIATYDIERSGVGFLFMSRDQEQFGDIWSVIK AMGAAGVKVYSTSSAILERVSDGRFVLGYNILGSYAADWASRHPDVGIVLPKDYTVVMSRIGLVPEAA ANPELGRRYLEFFMSKEGQTIMARQLQIPAVSPEVAGENTANTMQAIHGAQLRPVPVSPGLMVYLD OVKRSRLIERWNEALRSO

>216HA

XGSSHHHHHHSSGRENLYFQGHXKNDTAALAADIVDFWKKAGPDKWFDKDAAFDNHFHDRFRDA HFAAARRELDGWLEGAESSLALXLLLDQFPRNCFRGTAHXYATDPLARFFADEAIRRGHDQAVSEDL RVFFYLPFSHAEDIAAQQRACDLNQPLGGLYLHHAEEHRDIVERFGRFPHRNGILLRETTPEERQYLEE GGFSGGS

>1EOKA

ATALAGSNGVCIAYYITDGRNPTFKLKDIPDKVDMVILFGLKYWSLQDTTKLPGGTGMMGSFKSYKDL DTQIRSLQSRGIKVLQNIDDDVSWQSSKPGGFASAAAYGDAIKSIVIDKWKLDGISLDIEHSGAKPNPI PTFPGYAATGYNGWYSGSMAATPAFLNVISELTKYFGTTAPNNKQLQIASGIDVYAWNKIMENFRN NFNYIQLQSYGANVSRTQLMMNYATGTNKIPASKMVFGAYAEGGTNQANDVEVAKWTPTQGAKG GMMIYTYNSNVSYANAVRDAVKN

>1QG8A

PKVSVIMTSYNKSDYVAKSISSILSQTFSDFELFIMDDNSNEETLNVIRPFLNDNRVRFYQSDISGVKERT EKTRYAALINQAIEMAEGEYITYATDDNIYMPDRLLKMVRELDTHPEKAVIYSASKTYHLNENRDIVKET VRPAAQVTWNAPCAIDHCSVMHRYSVLEKVKEKFGSYWDESPAFYRIGDARFFWRVNHFYPFYPLD EELDLNYITDQSIHFQLFELEKNEFVRNLPPQRNCRELRESLKKLGMG

>3FIAA

XGHHHHHHSHVAQFPTPFGGSLDTWAITVEERAKHDQQFHSLKPISGFITGDQARNFFFQSGLPQP VLAQIWALADXNNDGRXDQVEFSIAXKLIKLKLQGYQLPSALPPVXKQQPVAISS

>3DM8A

MTEHSLWRFSRALHRALNDRQTEELATIIDDNIDWAIYGPIDMFPFFGARQGKAAVLEVCRQIADSVR IYRYHRESVMLGIDSAASMVRYSLTAAGTNRPISVRMALFTQFQNGRLTNLRMVLDTFDLVEQALGR PIHLPKIA

NLKVEFYNSNPSDTTNSINPQFKVTNTGSSAIDLSKLTLRYYYTVDGQKDQTFWCDHAAIIGSNGSYN GITSNVKGTFVKMSSSTNNADTYLEISFTGGTLEPGAHVQIQGRFAKNDWSNYTQSNDYSFKSASQF VEWDOVTAYLNGVLVWGKEP

>2HEWF

GSHMSSSPAKDPPIQRLRGAVTRCEDGQLFISSYKNEYQTMEVQNNSVVIKCDGLYIIYLKGSFFQEVK IDLHFREDHNPISIPMLNDGRRIVFTVVASLAFKDKVYLTVNAPDTLCEHLQINDGELIVVQLTPGYCAP EGSYHSTVNQVPL

>3BYPA

GLMDEGLPPEEVERIRAFLQERIRGRALEVHDLKTRRAGPRSFLEFHLVVRGDTPVEEAHRLCDELERAL AQAFPGLQATIHVEPEGERKRTNP

>2FH1A

MDDDGTGQKQIWRIEGSNKVPVDPATYGQFYGGDSYIILYNYRHGGRQGQIIYNWQGAQSTQDEV AASAILTAQLDEELGGTPVQSRVVQGKEPAHLMSLFGGKPMIIYKGGTSREGGQTAPASTRLFQVRA NSAGATRAVEVLPKAGALNSNDAFVLKTPSAAYLWVGTGASEAEKTGAQELLRVLRAQPVQVAEGS EPDGFWEALGGKAAYRTSPRLKDKKMDAHPPRLFACSNKIGRFVIEEVPGELMQEDLATDDVMLLDT

WDQVFVWVGKDSQEEEKTEALTSAKRYIETDPANRDRRTPITVVKQGFEPPSFVGWFLGWDDDYWS VDPLDRAMAELAA

>2QIKA

XNSLLFVYGTLRKHEKNHHLLAQSACINEQARTKGSLFAAKEGPTVVFNDEDEGYIYGEVYEADELCIH KLDQFFQGYHKQTVFVETDVGIKIALIYFXNKDGCAGFTKISSGDWKEHQXISKSKNPIYYFAYGSCXD NARFQKAGVDHYFQDPVGRAVLKGYTTRFTLKREDGSRADXLEDGGTTEGVLYRIPYSALSYLYKREG VESLTYRPAFVDVEAGGRHYKDCLTFLVLQKEAEIAPPQHYQIEIERGAELYLSPEFTEKLKRHXNSLPKG LEHHHHHH

>3BM3A

XVRNLVIDITKKPTQNIPPTNEIIEEAITELNVDELLDRLFEKDESGEVITPSRIAKXLEEKAFEIYKEYEKQV REAYLSAGYSREKLEQSFQQARFSRGGKAFEIIFTKLLNKFGIRYEHDRVIKIYDYITEGEKPAFIIPSVRTFL NDPSSAILITVKRKVRERWREAVGEAQILRNKFGDEINFWFVGFDEEFTIYSAIAXLDNGIDRVYVIDGR YDSLIEEIKRISDPNFNEDKYIQKIRRFSDIFDDIIQFLNKHGNKKRGKQLTLV

>100YA

>2RC3A

FQGHMKTVKHLLQEKGHTVVAIGPDDSVFNAMQKMAADNIGALLVMKDEKLVGILTERDFSRKSYLLDKPVKDTQVKEIMTRQVAYVDLNNTNEDCMALITEMRVRHLPVLDDGKVIGLLSIGDLVKDAISQH

QF

>3F8OA

GXSPQSXLTSPQHPRRTTXVISHGTLSASAEHAAHLRQLLVHIAQATRQEDGCLLYLVSEDLSQPGHF LITEHWDNLGAXHTHLALPGVTQAIDALKHLNVTDLKITAYEAGEAINIXG

>1IZMA

GSXLISHSDXNQQLKSAGIGFNATELHGFLSGLLCGGLKDQSWLPLLYQFSNDNHAYPTGLVQPVTE LYEQISQTLSDVEGFTFELGLTEDENVFTQADSLSDWANQFLLGIGLAQPELAKEKGEIGEAVDDLQDI COLGYDEDDNEEELAEALEEIIEYVRTIAXLFYSHFNEGEIESKPVLH

>3E15A

MAHHHHHXDCQALAKSLEQXNHLHNVKYLEAKDLTDFNQKSAYYICHQIAEKQLSKEGGHVVIGL SGGKTPIDVYKNIALVKDIKIDTSKLIFFIIDERYKRDDHKFSNYNNIKFLFESLKINEKEQLYRPDTSKNIVE CVRDYNEKIKNXVKKYTKVDIAILGXGSDFHIASLFPNIFFNIYXNNYQNSYIYDESSIKVANSNDTSDN DNLDLLKEYVYFTTTNNFDVRKRITVSLDLLGNASSKIFLLNSTDKLDLWKNXLLKSYVDVNYCLYPAV YLIDSXNTTVVTCGYTNYPQXLEDIYVSNSSLS

>1B65A

MTSQTPTRKPRARDLGLPFTGVTGPYNAITDVDGVGVGFQTIIENEPRPGRKRPARSGVTAILPHMQS ETPVPVYAGVHRFNGNGEMTGTHWIEDGGYFLGPVVITNTHGIGMAHHATVRWMVDRYASTYQT DDFLWIMPVVAETYDGALNDINGFPVTEADVRKALDNVASGPVQEGNCGGGTGMITYGFKGGTGT ASRVVEFGGRSFTIGALVQANHGQRDWLTIAGVPVGQHMRDGTPQSQLQERGSIIVVLATDLPLMP HQLKRLARRASIGIGRNGTPGGNNSGDIFIAFSTANQRPMQHRSAPFLDVEMVNDEPLDTVYLAAV DSVEEAVVNAMIAAEDMGGTPFDRLLVQAIDHERLRAVLRQYGRLA

AEFKHVFVCVQDRPPGHPQGSCAQRGSREVFQAFMEKIQTDPQLFMTTVITPTGCMNASMMGPV VVVYPDGVWYGQVKPEDVDEIVEKHLKGGEPVERLVISKGKPPGMF

>1EUWA

MMKKIDVKILDPRVGKEFPLPTYATSGSAGLDLRACLNDAVELAPGDTTLVPTGLAIHIADPSLAAMM LPRSGLGHKHGIVLGNLVGLIDSDYQGQLMISVWNRGQDSFTIQPGERIAQMIFVPVVQAEFNLVED FDATDRGEGGFGHSGRQ

>1VRMA

XGSDKIHHHHHHRTKDQYYELRDFALGTSVRIVVSSQKINPRTIAEAILEDXKRITYKFSFTDERSVVKKI NDHPNEWVEVDEETYSLIKAACAFAELTDGAFDPTVGRLLELWGFTGNYENLRVPSREEIEEALKHTG YKNVLFDDKNXRVXVKNGVKIDLGGIAKGYALDRARQIALSFDENATGFVEAGGDVRIIGPKFGKYPW VIGVKDPRGDDVIDYIYLKSGAVATSGDYERYFVVDGVRYHHILDPSTGYPARGVWSVTIIAEDATTAD ALSTAGFVXAGKDWRKVVLDFPNXGAHLLIVLEGGAIERSETFKLFERE

>2Q7WA

>2RDOA

GSHMTNVTGDYTDCTPLLGDRAALDSFYEEHGYLFLRNVLDRDLVKTVAEQMREGLVALGAADPHA TLEELTIDSFESVDEVAMHDYVKYDAFWNNPSTIKVFEQVFGEPVFVFLSTTIRYYPSQAGSEEPSFHYL TPFHQDGFYIGPNQDFRTFWIPLIRTTRESGGVALADGSHRRGKRDHVLNESFRRFGHPVRGIPPTEVS EDEHLLHSPMEPGDILLFHAHMCHKSIPNLSKDPRLMRMSMDTRVQPAKSHRGFNAMTPWTESAK DASKGIMAKITGTPTDVE

>104YA

MDIAQDWNGIPVPANPGNGMTWQLQDNVSDSFNYTSSEGNRPTAFTSKWKPSYINGWTGPGSTI FNAPQAWTNGSQLAIQAQPAGNGKSYNGIITSKNKIQYPVYMEIKAKIMDQVLANAFWTLTDDETQ EIDIMEGYGSDRGGTWFAQRMHLSHHTFIRNPFTDYQPMGDATWYYNGGTPWRSAYHRYGCYWK DPFTLEYYIDGVKVRTVTRAEIDPNNHLGGTGLNQATNIIIDCENQTDWRPAATQEELADDSKNIFWV DWIRVYKPVAVSGGGNNSLEHHHHHH

>2E3HA

ELKIGDRVLVGGTKAGVVRFLGETDFAKGEWCGVELDEPLGKNDGAVAGTRYFQCQPKYGLFAPVH KVTKIGFPSTTPAKAKANAVRRVM

>2DDXA

LDGVLVPESGILVSVGQDVDSVNDYASALGTIPAGVTNYVGIVNLDGLNSDADAGAGRNNIAELAN AYPTSALVVGVSMNGEVDAVASGRYNANIDTLLNTLAGYDRPVYLRWAYEVDGPWNGHSPSGIVTS FQYVHDRIIALGHQAKISLVWQVASYCPTPGGQLDQWWPGSEYVDWVGLSYFAPQDCNWDRVNE AAQFARSKGKPLFLNESTPQRYQVADLTYSADPAKGTNRQSKTSQQLWDEWFAPYFQFMSDNSDI VKGFTYINADWDSQWRWAAPYNEGYWGDSRVQANALIKSNWQQEIAKGQYINHSETLFETLGYGS THHHHHH

>3CGXA

GXSESCILFFVKYPEPGKVKTRLGEVVGNDKAAXLYRHFVQDXLQGLARLHADLHICYVPGDADLPEK FKAWLGPQHXFAAQQGLDLGERXKHAXQKAFDDGYDRVVLXGSDIPDYPCELVQKALNDLQHYDA AIGPAFDGGYYLIGFRKDSFCPDVFDGIRWGEADVYQPTVEKXRRARLEVLQLPDWNDVDTVWDLN VLYRTNKNSSFRRSSTYALLRENDALIRQYDIDLPGXAPVEKE

>2GX5A

MGSSHHHHHHMALLQKTRIINSMLQAAAGKPVNFKEMAETLRDVIDSNIFVVSRRGKLLGYSINQQI ENDRMKKMLEDRQFPEEYTKNLFNVPETSSNLDINSEYTAFPVENRDLFQAGLTTIVPIIGGGERLGTLI LSRLQDQFNDDDLILAEYGATVVGMEILREKAE

>3C6WA

SNAIAAGGSHVEAAPOEEWKKHFIHTGELGSAEFASVXSHTTSAXKSVFEQVNAPYSGXDPKALEDAI

NAVDLDNKNAPLKSVIDDVAELVAKNAIFTQHPDCIAHLHTPPLXPAVAAEAXIAALNQSXDSWDQ ASSATYVEQKVVNWLCDKYDLSEKADGIFTSGGTQSNQXGLXLARDWIADKLSGHSIQKLGLPDYAD KLRIVCSKKSHFTVQKSASWXGLGEKAVXTVDANADGTXDITKLDEVIAQAKAEGLIPFAIVGTAGTTD HGAIDDLDFIADXAVKHDXWXHVDGAYGGALILSSHKSRLKGVERAHSISVDFHKLFYQTISCGALLV NDKSNFKFLLHHADYLNREHDELPNLVDKSIATTKRFDALKVFXTXQNVGPKALGDXYDHLLAQTLEV ADXIRTNDQFELLAEPSLSTVLFRATHETADLDELNKALRLEALTRGIAVLGETIVDGKTALKFTILNPCLT TSDFESLLSKINXLAVELV

>1X6OA

MAHHHHHMSDEDHDFSHQGGGDNASKTYPLAAGALKKGGYVCINGRPCKVIDLSVSKTGKHGH AKVSIVATDIFTGNRLEDQAPSTHNVEVPFVKTYTYSVLDIQANEDPSLPAHLSLMDDEGESREDLDM PPDPALATOIKEOFDSGKDVLVVVVSAMGTEOVLOTKNAAEK

>1ZY7A

>2H6FA

MAATEGVGEAAQGGEPGQPAQPPPQPHPPPPQQQHKEEMAAEAGEAVASPMDDGFVSLDSPSY VLYRDRAEWADIDPVPQNDGPNPVVQIIYSDKFRDVYDYFRAVLQRDERSERAFKLTRDAIELNAAN YTVWHFRRVLLKSLQKDLHEEMNYITAIIEEQPKNYQVWHHRRVLVEWLRDPSQELEFIADILNQDAK NYHAWQHRQWVIQEFKLWDNELQYVDQLLKEDVRNNSVWNQRYFVISNTTGYNDRAVLEREVQY TLEMIKLVPHNESAWNYLKGILQDRGLSKYPNLLNQLLDLQPSHSSPYLIAFLVDIYEDMLENQCDNK EDILNKALELCEILAKEKDTIRKEYWRYIGRSLQSKHSTENDSPTNVQQEEF

>3CANA

SNAGGGVTFCGGEPLLHPEFLIDILKRCGQQGIHRAVDTTLLARKETVDEVXRNCELLLIDLKSXDSTVH QTFCDVPNELILKNIRRVAEADFPYYIRIPLIEGVNADEKNIKLSAEFLASLPRHPEIINLLPYHDIGKGKHA KLGSIYNPKGYKXQTPSEEVQQQCIQILTDYGLKATIGG

>2QMCA

MGSSHHHHHHSSGLVPRGSHMASAASYPPIKNTKVGLALSSHPLASEIGQKVLEEGGNAIDAAVAIG FALAVVHPAAGNIGGGGFAVIHLANGENVALDFREKAPLKATKNMFLDKQGNVVPKLSEDGYLAAG VPGTVAGMEAMLKKYGTKKLSQLIDPAIKLAENGYAISQRQAETLKEARERFLKYSSSKKYFFKKGHLD YQEGDLFVQKDLAKTLNQIKTLGAKGFYQGQVAELIEKDMKKNGGIITKEDLASYNVKWRKPVVGSY RGYKIISMSPPSSGGTHLIQILNVMENADLSALGYGASKNIHIAAEAMRQAYADRSVYMGDADFVSV PVDKLINKAYAKKIFDTIQPDTVTPSSQIKPGMGQLHEGSN

>3F9MA

MGHHHHHHENLYFQGMKKEKVEQILAEFQLQEEDLKKVMRRMQKEMDRGLRLETHEEASVKMLPT YVRSTPEGSEVGDFLSLDLGGTNFRVMLVKVGEGEEGQWSVKTKHQMYSIPEDAMTGTAEMLFDYIS ECISDFLDKHQMKHKKLPLGFTFSFPVRHEDIDKGILLNWTKGFKASGAEGNNVVGLLRDAIKRRGDF EMDVVAMVNDTVATMISCYYEDHQCEVGMIVGTGCNACYMEEMQNVELVEGDEGRMCVNTEW GAFGDSGELDEFLLEYDRLVDESSANPGQQLYEKLIGGKYMGELVRLVLLRLVDENLLFHGEASEQLRT RGAFETRFVSQVESDTGDRKQIYNILSTLGLRPSTTDCDIVRRACESVSTRAAHMCSAGLAGVINRMR ESRSEDVMRITVGVDGSVYKLHPSFKERFHASVRRLTPSCEITFIESEEGSGRGAALVSAVACKKACML GO

>1NC5A

MGSMDQSIAVKSPLTYAEALANTIMNTYTVEELPPANRWHYHQGVFLCGVLRLWEATGEKRYFEYA KAYADLLIDDNGNLLFRRDELDAIQAGLILFPLYEQTKDERYVKAAKRLRSLYGTLNRTSEGGFWHKDG YPYQMWLDGLYMGGPFALKYANLKQETELFDQVVLQESLMRKHTKDAKTGLFYHAWDEAKKMPW ANEETGCSPEFWARSIGWYVMSLADMIEELPKKHPNRHVWKNTLQDMIKSICRYQDKETGLWYQIV

DKGDRSDNWLESSGSCLYMYAIAKGINKGYLDRAYETTLLKAYQGLIQHKTETSEDGAFLVKDICVGT SAGFYDYYVSRERSTNDLHGAGAFILAMTELEPLFRSAGK

ATKIDKEACRAAYNLVRDDGSAVIWVTFKYDGSTIVPGEQGAEYQHFIQQCTDDVRLFAFVRFTTGD AMSKRSKFALITWIGENVSGLQRAKTGTDKTLVKEVVQNFAKEFVISDRKELEEDFIKSELKKAGGANY DAQTE

GSSHHHHHHSSGLVPRGSHMSVQNVVLFDTQPLTLXLGGKLSYINVAYQTYGTLNDEKNNAVLICH ALTGDAEPYFDDGRDGWWQNFXGAGLALDTDRYFFISSNVLGGCKGTTGPSSINPQTGKPYGSQFP NIVVQDIVKVQKALLEHLGISHLKAIIGGSFGGXQANQWAIDYPDFXDNIVNLCSSIYFSAEAIGFNHV XRQAVINDPNFNGGDYYEGTPPDQGLSIARXLGXLTYRTDLQLAKAFGRATKSDGSFWGDYFQVESY LSYQGKKFLERFDANSYLHLLRALDXYDPSLGYENVKEALSRIKARYTLVSVTTDQLFKPIDLYKSKQLLE QSGVDLHFYEFPSDYGHDAFLVDYDQFEKRIRDGLAGN

>1GK9A

>1VKYA

>3F44A

GXDETPIFKIKKLTIAENDRSEYIRYAEKNXHDSIPAEEGTLLIGSGHDDAHGEDNYEIEVFRNKGAEDLH IAGSHADDFVETVNKIATKQKVIDLHPEVITTKAQRALNSYADNFVXRLIKVEVKDADAEKFSHAVKKE XTTSXASEPGXEIXXSGTNIDNPNEWYFIEVYANDEAYDIHVKTPHYKEYIEETDGXVKSRDVKTLVRDT LATOGAIVLD

>113KA

>1J8BA

 ${\sf GSHXFGKGGLGGLXKQAQQXQEKXQKXQEEIAQLEVTGESGAGLVKITINGAHNCRRIDIDPSLXED}\\ {\sf DKEXLEDLIAAAFNDAVRRAEELQKEKXASVTAGXPLPPGXKFPF}$

>1X9DA

>1TWYA

MSLIRMALAAVCALLFSITTMTPFVQASEITISGSTSVARIXDVLAEKYNQQHPETYVAVQGVGSTAGI SLLKKGVADIAXTSRYLTESEAQNTLHTFTLAFDGLAIVVNQANPVTNLTREQLYGIYKGQITNWKQV GGNDQKIAVVTREASSGTRYSFESLXGLTKTVKDREVSDVAPTALVVNSNSXXKTLVNHNTQAVGFIS IGSVDKSVKAIQFEKADPTSDNIAKHTYQLSRPFLILHYSDNADEQTKEFIAFLKSESAKKLIVEYGYIXPS DVEEGGSHHHHHH

GLDTLDRDGDGSTADADCNDFAPTIHPGAAEATLDGVDSNCDGRDSGVAEVVETFKNPGTYSSPVI NFKIASPPGPGTPIYGPPRDFSGYNKSYSLAIGKTSYYDPTTGTKWNDDTITPVSDGQDIWRGXTHTG KWSFFNGKAGDKITLSVQRDAQEASLKGAHPGFILFWRPEGGPLFWAGTQDLDEGQTALPADSDTVI GHVIVQHADWTLQGLPPKADHTAPAGVDTELYPMKPDSYTMYYVDSGYDADKYVASKKLIMHPTA FKGLALNDGTAGAFTKSITLPKTGYYMLYVANVLEVDDWSVDADGKLTTTGEVWEVPAKGCWVNITI SKP

>2APJA

>10NAA

KYVPQRKPQTSRRHTPASSSSSSSSSSSSSSSSSSSSDSDMTVSAESFEKHSKPKVVIVLRAVRADGKQQ

GLQTTLYYGLTSNGLPKAKIVAVELSDLSVWKLCAKFRLSAHMKAKAAIGWGKNCQQYRAMLEASTG NLQSHPAARVDIKWGRLPSSLQRAKNALLENGAPVIASKLEMEIMPKANQKHQVSVILAAMTPRRM NIIVKLPKVTYFQQGILLPFTFPSPRFWDRPEGSQSDSLPAQIASAFSGIVQDPVASACELNEQSLTTFN GAFFNYDMPESCYHVLAQECSSRPPFIVLIKLDSERRISLELQLDDK

>2FG1A

SNAXEILYIKGDATAPIGSGVKVITHICNDIGGWGKGFVLALSKKWKXPEEAYRQWYKSQEEFTLGAV QFVNVENKLYVANXIGQHGIYKDSKGLPPIRYDAVRQCLKEVALFTIAHKASVHXPRIGCGLAGGKWE LXEQIIKEELITKEIAVTVYDL

>1VLYA

>3BIQA

GHMEELNIDFDVFKKRIELLYSKYNEFEGSPNSLLFVLGSSNAENPYQKTTILHNWLLSYEFPATLIALVP GKVIIITSSAKAKHLQKAIDLFKDPESKITLELWQRNNKEPELNKKLFDDVIALINSAGKTVGIPEKDSYQ GKFMTEWNPVWEAAVKENEFNVIDISLGLSKVWEVKDVNEQAFLSVSSKGSDKFMDLLSNEMVRAV DEELKITNAKLSDKIENKIDDVKFLKQLSPDLSALCPPNYKFNFDLLDWTYSPIIQSGKKFDLRVSARSTN DQLYGNGCILASCGIRYNNYCSNITRTFLIDPSEEMANNYDFLLTLQKEIVTNILKPGRTPKEVYESVIEYI EKTKPELVPNFTKNIGSLIGLEFRDSNFILNVKNDYRKIQRGDCFNISFGFNNLKDSQSANNYALQLAD TVQIPLDETEPPRFLTNYTKAKSQISFYFNNEEEDNNKKKSSPATKV

>3CTPA

SLANIREIAKRAGISIATVSRHLNNTGYVSEDAREKIOKVVDELNYTPNALARAMFTKNSKTIGLMVPNI

SNPFFNQMASVIEEYAKNKGYTLFLCNTDDDKEKEKTYLEVLQSHRVAGIIASRSQCEDEYANIDIPVV AFENHILDNIITISSDNYNGGRMAFDHLYEKGCRKILHIKGPEVFEATELRYKGFLDGARAKDLEIDFIEF QHDFQVKMLEEDINSMKDIVNYDGIFVFNDIAAATVMRALKKRGVSIPQEVQIIGFDNSFIGELLYPSL TTINQPIEALAYTIIELLIKIINGEGVLIEDYIMEVKLIERETTISLKDEG

>1A12A

RRSPPADAIPKSKKVKVSHRSHSTEPGLVLTLGQGDVGQLGLGENVMERKKPALVSIPEDVVQAEAG GMHTVCLSKSGQVYSFGCNDEGALGRDTSVEGSEMVPGKVELQEKVVQVSAGDSHTAALTDDGRV FLWGSFRDNNGVIGLLEPMKKSMVPVQVQLDVPVVKVASGNDHLVMLTADGDLYTLGCGEQGQL GRVPELFANRGGRQGLERLLVPKCVMLKSRGSRGHVRFQDAFCGAYFTFAISHEGHVYGFGLSNYHQ LGTPGTESCFIPQNLTSFKNSTKSWVGFSGGQHHTVCMDSEGKAYSLGRAEYGRLGLGEGAEEKSIPT LISRLPAVSSVACGASVGYAVTKDGRVFAWGMGTNYQLGTGQDEDAWSPVEMMGKQLENRVVLS VSSGGOHTVLLVKDKEQS

>2P0NA

SNAXNPFETKSVTFAEPIEXLYACHGKVRRFCGQVAXLSDYIAENGCNQIVLQTIRQIAQYFNVAAPLH HEDEEENFFPLLLQYAPQAQESVDELLRQHIGLHDNWAAVSAEFAKLEADNAYVPDEEAFKRFVAGY DVHLAIEEPLFDXGNTFIPKEKLTEIGEIXAARRRK

>3EXMA

GMTDGEAVSAAAGPGAEGPPGPVGHWAPGSHILWRYRENGGPHVHIARPVTVVRDDADLLAVWL APGTECVKPVLADGTPVHLEPLATRYTKPRTVQRDQWFGTGVLKLARPGEAWSVWLFWDPGWRFK NWYVNLERPLTRWEGGVDSEDHFLDISVHPDRTWHWRDEDEFAQALRDGLMDPASAGRVRRAGR SAVAEIRAWGSPFADGWEHWRPDPAWPVPSLPGDWDRTPAHVSS

>2R5OA

MHHHHHHHHHHISSASGESQMSLDEIEDVYHTRPGYRPEEYRWGQGGAKIIDYHIQSAGVDFPPSL TGNQQTDFLMKVVFEYDFDCVVPGILIKTLDGLFLYGTNSFLASEGRENISVSRGDVRVFKFSLPVDLN SGDYLLSFGISAGNPQTDMTPLDRRYDSIILHVTKSMDFWGVIDLKSSFTSYQ

>2PC1A

>2FWHA

ATHTAQTQTHLNFTQIKTVDELNQALVEAKGKPVMLDLYADWCVACKEFEKYTFSDPQVQKALADT VLLQANVTANDAQDVALLKHLNVLGLPTILFFDGQGQEHPQARVTGFMDAETFSAHLRDRQPHHH HHH

>2I71A

XGSSHHHHHHSSGRENLYFQGXASIVFSTIGNPKGYQKVTYEIDGEKFESNVSVLALRDLLKVDKTVVI LGISVADVYNCKYADYRSCKECIIQNSKNDLGISESYVVAPNVYQKFKGKPDHYFTYIYYHSLRILEKEGI NEVFIDTTHGINYXGVLAKEAIQLAVSAYAAKSEKEVKVSLYNSDPVGKDVSDTVKLHEIEAIKISPLSGL KYVTYQILNKDKNFFNKIFSDSVNAIPRFATALDNGLFIYLSEKDSSLHLKRLEDDLSKDPLLTPSENEINV VYKDXKYALSHALFYVISRFSGNVDLDTLRHYAETYADKVTRAIIENEVDKIEKYQXGSERKLLGEYXKVE GKGFDKRILYAHGGLPYAGTYVYKEKDKVYVTYGDKIDEIERQIGS

>1VKFA

MGSDKIHHHHHHXFKGIIAALWDXDSIGEIEPDVVFLLKSDILNLKFHLKILKDRGKTVFVDXDFVNGL GEGEEAILFVKKAGADGIITIKPKNYVVAKKNGIPAVLRFFALDSKAVERGIEQIETLGVDVVEVLPGAVA PKVARKIPGRTVIAAGLVETEEEAREILKHVSAISTSSRILWKXKFLP

>2FCTA

GSHMSKKFALTAEQRASFEKNGFIGPFDAYSPEEMKETWKRTRLRLLDRSAAAYQDLDAISGGTNIAN YDRHLDDDFLASHICRPEICDRVESILGPNVLCWRTEFFPKYPGDEGTDWHQADTFANASGKPQIIW PENEEFGGTITVWTAFTDANIANGCLQFIPGTQNSMNYDETKRMTYEPDANNSVVKDGVRRGFFGY DYRQLQIDENWKPDEASAVPMQMKAGQFIIFWSTLMHASYPHSGESQEMRMGFASRYVPSFVHVY PDSDHIEEYGGRISLEKYGAVQVIGDETPEYNRLVTHTTRGKKFEAV

>3CIVA

MGSSHHHHHHSSGLVPRGSHMASMGRIESAFDLGFIRGMTFGFVGQHGTWGTDEARASMRALAE QPFNWVTLAFAGLMEHPGDPAIAYGPPVTVSDDEIASMAELAHALGLKVCLKPTVNCRDGTWRGEI RFEKEHGPDLESWEAWFGSYSDMMAHYAHVAKRTGCEMFCVGCEMTTAEPHEAMWRETIARVRT EYDGLVTYNCNHGREEHVRFWDAVDLISSSAYYPIDRWRDRVPVLREVAEAHEKPLFFMEVGCPSRS GSGACPWDYRHPGAVCLDEQARFYEAMFAAMPDEPWFKGYMLWEWPWKLYPREAASEDGSYCIY GKPAEDVVARAFSAIANR

>2QSWA

SNAKNIEETELVVEEXLEQYPNGKIVRLLFHGEQAKLPIISHIVQEYQVEVSIIQGNIQQTKQGAVGSLYI OLLGEEQNILAAIEGLRKLRVETEVIGNE

>3BGEA

>2C2UA

MTKKSTKSEAASKTKKSGVPETGAQGVRAGGADHADAAHLGTVNNALVNHHYLEEKEFQTVAETLQ RNLATTISLYLKFKKYHWDIRGRFFRDLHLAYDEFIAEIFPSIDEQAERLVALGGSPLAAPADLARYSTVQ VPQETVRDARTQVADLVQDLSRVGKGYRDDSQACDEANDPVTADMYNGYAATIDKIRWMLQAIM DDERLD

>1RUTX

GSLSWKRCAGCGGKIADRFLLYAMDSYWHSRCLKCSSCQAQLGDIGTSSYTKSGMILCRNDYIRLFG NSGACSACGQSIPASELVMRAQGNVYHLKCFTCSTCRNRLVPGDRFHYINGSLFCEHDRPTALINGH LNSGGSGGSGGSGDVMVVGEPTLMGGEFGDEDERLITRLENTQFDAANGIDDE

>2VOSA

XNSTNSGPPDSGSATGVVPTPDEIASLLQVEHLLDQRWPETRIDPSLTRISALXDLLGSPQRSYPSIHIA GTNGKTSVARXVDALVTALHRRTGRTTSPHLQSPVERISIDGKPISPAQYVATYREIEPLVALIDQQSQ

ASAGKGGPAXSKFEVLTAXAFAAFADAPVDVAVVEVGXGGRWDATNVINAPVAVITPISIDHVDYLG ADIAGIAGEKAGIITRAPDGSPDTVAVIGRQVPKVXEVLLAESVRADASVAREDSEFAVLRRQIAVGGQ VLQLQGLGGVYSDIYLPLHGEHQAHNAVLALASVEAFFGAGAQRQLDGDAVRAGFAAVTSPGRLER XRSAPTVFIDAAHNPAGASALAQTLAHEFDFRFLVGVLSVLGDKDVDGILAALEPVFDSVVVTHNGSP RALDVEALALAAGERFGPDRVRTAENLRDAIDVATSLVDDAAADPDVAGDAFSRTGIVITGSVVTAG AARTLFGRDPO

>1VR7A

XGSDKIHHHHHHXKSLGRHLVAEFYECDREVLDNVQLIEQEXKQAAYESGATIVTSTFHRFLPYGVSG VVVISESHLTIHTWPEYGYAAIDLFTCGEDVDPWKAFEHLKKALKAKRVHVVEHERGRYDEIGIPEDSP HKAAV

MGSSHHHHHHSSGLVPRGSVVKNVDMTEEMQIDAIDCANQALQKYNVEKDIAAHIKKEFDRKYDP TWHCVVGRNFGSYVTHETKNFIYFYIGQVAILLFKSG

>1YWFA

MGSSHHHHHHSSGLVPRGSHMAVRELPGAWNFRDVADTATALRPGRLFRSSELSRLDDAGRATLR RLGITDVADLRSSREVARRGPGRVPDGIDVHLLPFPDLADDDADDSAPHETAFKRLLTNDGSNGESG ESSQSINDAATRYMTDEYRQFPTRNGAQRALHRVVTLLAAGRPVLTHCFAGKDRTGFVVALVLEAVG LDRDVIVADYLRSNDSVPQLRARISEMIQQRFDTELAPEVVTFTKARLSDGVLGVRAEYLAAARQTIDE TYGSLGGYLRDAGISOATVNRMRGVLLG

GSHHHHHHHHHRSMSQTNANDLRNNEVFFISPSNNTNKVLDKISQSEVKLWNKLSGANQKWRLI YDTNKQAYKIKVMDNTSLILTWNAPLSSVSVKTDTNGDNQYWYLLQNYISRNVIIRNYMNPNLVLQ YNIDDTLMVSTQTSSSNQFFKFSNCIYEALNNRNCKLQTQLNSDRFLSKNLNSQIIVLWQWFDSSRQ KWIIEYNETKSAYTLKCQENNRYLTWIQNSNNYVETYQSTDSLIQYWNINYLDNDASKYILYNLQDTN RVLDVYNSQIANGTHVIVDSYHGNTNQQWIINLI

>3BA3A

GXDISLLKQVVQSTNKIALSTAVNNEADVKIVNFVWYEAQPDTLYFSSVKTSPALKVYDQNPDIAFITIP NDGTAGNPYLRAQHVKLQRSTKTXTDLLPQYLETVPNYQQVWDAIGSTLVVFELKLTDLFVDAGVG GFKOTI TEN

>10W4A

MLWQKSTAPEQAPAPPRPYQGVRVKEPVKELLRRKRGHTSVGAAGPPTAGVLPHQPLATYSTVGPS CLDMEVSASTVTEEGTLCAGWLSQPAPATLHALAPWTPYTEYVSHEAVSCPYSTDMYVQPVCPSYT VVGPSSVLTYASPPLITNVTPRSTATPAVGPQLEGPEHQAPLTYFPWPQPLSTLPTSSLQYQPPAPTLS GPQFVQLPISIPEPVLQDMDDPRRAISSLTIDKLLLEEEESNTYELNHTLSVEG

>DP00009

>DP00011

MELIQDTSRPPLEYVKGVPLIKYFAEALGPLQSFQARPDDLLINTYPKSGTTWVSQILDMIYQGGDLEK CNRAPIYVRVPFLEVNDPGEPSGLETLKDTPPPRLIKSHLPLALLPQTLLDQKVKVVYVARNPKDVAVS YYHFHRMEKAHPEPGTWDSFLEKFMAGEVSYGSWYQHVQEWWELSRTHPVLYLFYEDMKENPKREI

QKILEFVGRSLPEETMDFMVQHTSFKEMKKNPMTNYTTVPQELMDHSISPFMRKGMAGDWKTTFTV AQNERFDADYAEKMAGCSLSFRSE

MQRSPLEKASVVSKLFFSWTRPILRKGYRQRLELSDIYQIPSVDSADNLSEKLEREWDRELASKKNPKLI NALRRCFFWRFMFYGIFLYLGEVTKAVOPLLLGRIIASYDPDNKEERSIAIYLGIGLCLLFIVRTLLLHPAIF GLHHIGMQMRIAMFSLIYKKTLKLSSRVLDKISIGQLVSLLSNNLNKFDEGLALAHFVWIAPLQVALLM GLIWELLOASAFCGLGFLIVLALFOAGLGRMMMKYRDORAGKISERLVITSEMIENIOSVKAYCWEEA MEKMIENLROTELKLTRKAAYVRYFNSSAFFFSGFFVVFLSVLPYALIKGIILRKIFTTISFCIVLRMAVTRO FPWAVQTWYDSLGAINKIQDFLQKQEYKTLEYNLTTTEVVMENVTAFWEEGFGELFEKAKQNNNNR KTSNGDDSLFFSNFSLLGTPVLKDINFKIERGQLLAVAGSTGAGKTSLLMVIMGELEPSEGKIKHSGRISF CSQFSWIMPGTIKENIIFGVSYDEYRYRSVIKACQLEEDISKFAEKDNIVLGEGGITLSGGQRARISLARA VYKDADLYLLDSPFGYLDVLTEKEIFESCVCKLMANKTRILVTSKMEHLKKADKILILHEGSSYFYGTFSEL ONLOPDFSSKLMGCDSFDQFSAERRNSILTETLHRFSLEGDAPVSWTETKKOSFKOTGEFGEKRKNSIL NPINSIRKFSIVOKTPLOMNGIEEDSDEPLERRLSLVPDSEQGEAILPRISVISTGPTLOARRROSVLNLM THSVNQGQNIHRKTTASTRKVSLAPQANLTELDIYSRRLSQETGLEISEEINEEDLKECFFDDMESIPAV TTWNTYLRYITVHKSLIFVLIWCLVIFLAEVAASLVVLWLLGNTPLQDKGNSTHSRNNSYAVIITSTSSYY VFYIYVGVADTLLAMGFFRGLPLVHTLITVSKILHHKMLHSVLQAPMSTLNTLKAGGILNRFSKDIAILD DLLPLTIFDFIOLLLIVIGAIAVVAVLOPYIFVATVPVIVAFIMLRAYFLOTSOOLKOLESEGRSPIFTHLVTS LKGLWTLRAFGROPYFETLFHKALNLHTANWFLYLSTLRWFOMRIEMIFVIFFIAVTFISILTTGEGEGRV GIILTLAMNIMSTLQWAVNSSIDVDSLMRSVSRVFKFIDMPTEGKPTKSTKPYKNGQLSKVMIIENSHV KKDDIWPSGGQMTVKDLTAKYTEGGNAILENISFSISPGQRVGLLGRTGSGKSTLLSAFLRLLNTEGEIQ IDGVSWDSITLQQWRKAFGVIPQKVFIFSGTFRKNLDPYEQWSDQEIWKVADEVGLRSVIEQFPGKLD FVLVDGGCVLSHGHKOLMCLARSVLSKAKILLLDEPSAHLDPVTYOIIRRTLKOAFADCTVILCEHRIEA MLECOOFLVIEENKVROYDSIOKLLNERSLFROAISPSDRVKLFPHRNSSKCKSKPOIAALKEETEEEVO **DTR**

MKILLCVALLLTWDNGMVLGEQEFSDNELQELSTQGSRYVNKEIQNAVQGVKHIKTLIEKTNAERKS LLNSLEEAKKKKEGALDDTRDSEMKLKAFPEVCNETMMALWEECKPCLKHTCMKFYARVCRSGSGLV GRQLEEFLNQSSPFYFWMNGDRIDSLLESDRQQSQVLDAMQDSFTRASGIIDTLFQDRFFTHEPQDI HHFSPMGFPHKRPHFLYPKSRLVRSLMPLSHYGPLSFHNMFQPFFDMIHQAQQAMDVQLHSPALQ FPDVDFLKEGEDDPTVCKEIRHNSTGCLKMKGQCEKCQEILSVDCSTNNPAQANLRQELNDSLQVAE RLTQQYNELLHSLQSKMLNTSSLLEQLNDQFTWVSQLANLTQGDDQYLRVSTVTTHSSDSEVPSRV TEVVVKLFDSDPITVVLPEEVSKDNPKFMDTVAEKALQEYRRKSRM

MSEPAGDVRQNPCGSKACRRLFGPVDSEQLSRDCDALMAGCIQEARERWNFDFVTETPLEGDFAW ERVRGLGLPKLYLPTGPRRGRDELGGGRRPGTSPALLQGTAEEDHVDLSLSCTLVPRSGEQAEGSPGG PGDSQGRKRROTSMTDFYHSKRRLIFSKRK

>DP00017

>DP00019

MSSPDDFETAPAEYVDALDPSMVVVDSGSAAVTAPSDSAAEVKANQNEENTGATAAETSEKVDQT EVEKKDDDTTEVGVTTTTPSIADTAATANIASTSGASVTEPTTDDTAADEKKEQVSGPPLSNMKFYL NRDADAHDSLNDIDQLARLIRANGGEVLDSKPRESKENVFIVSPYNHTNLPTVTPTYIKACCQSNSLL NMENYLVPYDNFREVVDSRLQEESHSNGVDNSNSNSDNKDSIRPKTEIISTNTNGATEDSTSEKVMV DAEQQARLQEQAQLLRQHVSSTASITSGGHNDLVQIEQPQKDTSNNNNSNVNDEDNDLLTQDNN PQTADEGNASFQAQRSMISRGALPSHNKASFTDEEDEFILDVVRKNPTRRTTHTLYDEISHYVPNHTG NSIRHRFRVYLSKRLEYVYEVDKFGKLVRDDDGNLIKTKVLPPSIKRKFSADEDYTLAIAVKKQFYRDLFQ IDPDTGRSLITDEDTPTAIARRNMTMDPNHVPGSEPNFAAYRTQSRRGPIAREFFKHFAEEHAAHTEN AWRDRFRKFLLAYGIDDYISYYEAEKAQNREPEPMKNLTNRPKRPGVPTPGNYNSAAKRARNYSSQR NVQPTANAASANAAAAAAAAAASNSYAIPENELLDEDTMNFISSLKNDLSNISNSLPFEYPHEIAEAIRS DFSNEDIYDNIDPDTISFPPKIATTDLFLPLFFHFGSTRQFMDKLHEVISGDYEPSQAEKLVQDLCDETGI RKNFSTSILTCLSGDLMVFPRYFLNMFKDNVNPPPNVPGIWTHDDDESLKSNDQEQIRKLVKKHGTG RMEMRKRFFEKDL

>DP00021

>DP00024

MHGDTPTLHEYMLDLQPETTDLYCYEQLSDSSEEEDEIDGPAGQAEPDRAHYNIVTFCCKCDSTLRLC VQSTHVDIRTLEDLLMGTLGIVCPICSQK

>DP00025

MKNNLRYGIRKHKLGAASVFLGTMIVVGMGQDKEAAASEQKTTTVEENGNSATDNKTSETQTTATN VNHIEETQSYNATVTEQPSNATQVTTEEAPKAVQAPQTAQPANIETVKEEVVKEEAKPQVKETTQSQ DNSGDQRQVDLTPKKATQNQVAETQVEVAQPRTASESKPRVTRSADVAEAKEASNAKVETGTDVT SKVTVEIGSIEGHNNTNKVEPHAGQRAVLKYKLKFENGLHQGDYFDFTLSNNVNTHGVSTARKVPEIK NGSVVMATGEVLEGGKIRYTFTNDIEDKVDVTAELEINLFIDPKTVOTNGNOTITSTLNEEOTSKELDV KYKDGIGNYYANLNGSIETFNKANNRFSHVAFIKPNNGKTTSVTVTGTLMKGSNONGNOPKVRIFEY LGNNEDIAKSVYANTTDTSKFKEVTSNMSGNLNLQNNGSYSLNIENLDKTYVVHYDGEYLNGTDEV DFRTQMVGHPEQLYKYYYDRGYTLTWDNGLVLYSNKANGNEKNGPIIQNNKFEYKEDTIKETLTGQY DKNLVTTVEEEYDSSTLDIDYHTAIDGGGGYVDGYIETIEETDSSAIDIDYHTAVDSEAGHVGGYTESSE ESNPIDFEESTHENSKHHADVVEYEEDTNPGGGQVTTESNLVEFDEESTKGIVTGAVSDHTTVEDTKE YTTESNLIELVDELPEEHGOAOGPVEEITKNNHHISHSGLGTENGHGNYDVIEEIEENSHVDIKSELGYE GGONSGNOSFEEDTEEDKPKYEOGGNIVDIDFDSVPQIHGONKGNOSFEEDTEKDKPKYEHGGNIID IDFDSVPHIHGFNKHTEIIEEDTNKDKPSYQFGGHNSVDFEEDTLPKVSGQNEGQQTIEEDTTPPIVPPT PPTPEVPSEPETPTPPTPEVPSEPETPTPPTPEVPSEPETPTPPTPEVPAEPGKPVPPAKEEPKKPSKPVEQ GKVVTPVIEINEKVKAVAPTKKPQSKKSELPETGGEESTNKGMLFGGLFSILGLALLRRNKKNHK

>DP00026

AQVINTNSLSLLTQNNLNKSQSALGTAIERLSSGLRINSAKDDAAGQAIANRFTANIKGLTQASRNAN DGISIAQTTEGALNEINNNLQRVRELAVQSANSTNSQSDLDSIQAEITQRLNEIDRVSGQTQFNGVKV LAQDNTLTIQVGANDGETIDIDLKQINSQTLGLDTLNVQQKYKVSDTAATVTGYADTTIALDNSTFKA

SATGLGGTDQKIDGDLKFDDTTGKYYAKVTVTGGTGKDGYYEVSVDKTNGEVTLAGGATSPLTGGLP ATATEDVKNVQVANADLTEAKAALTAAGVTGTASVVKMSYTDNNGKTIDGGLAVKVGDDYYSATQ NKDGSISINTTKYTADDGTSKTALNKLGGADGKTEVVSIGGKTYAASKAEGHNFKAQPDLAEAAATTT ENPLQKIDAALAQVDTLRSDLGAVQNRFNSAITNLGNTVNNLTSARSRIEDSDYATEVSNMSRAQIL QQAGTSVLAQANQVPQNVLSLL

>DP00027

MSIDRTSPLKPVSTVQTRETSDTPVQKTRQEKTSAATSASVTLSDAQAKLMQPGVSDINMERVEALKT AIRNGELKMDTGKIADSLIREAQSYLQS

>DP00028

MSGGSSCSQTPSRAIPATRRVVLGDGVQLPPGDYSTTPGGTLFSTTPGGTRIIYDRKFLMECRNSPVTK TPPRDLPTIPGVTSPSSDEPPMEASQSHLRNSPEDKRAGGEESQFEMD

>DP00029

MKLWDVVAVCLVLLHTASAFPLPAGKRLLEAPAEDHSLGHRRVPFALTSDSNMPEDYPDQFDDVM DFIQATIKRLKRSPDKQAAALPRRERNRQAAAASPENSRGKGRRGQRGKNRGCVLTAIHLNVTDLGL GYETKEELIFRYCSGSCEAAETMYDKILKNLSRSRRLTSDKVGQACCRPVAFDDDLSFLDDSLVYHILRK HSAKRCGC

>DP00030

MDSKESLTPGREENPSSVLAQERGDVMDFYKTLRGGATVKVSASSPSLAVASQSDSKQRRLLVDFPK GSVSNAQQPDLSKAVSLSMGLYMGETETKVMGNDLGFPQQGQISLSSGETDLKLLEESIANLNRSTS VPENPKSSASTAVSAAPTEKEFPKTHSDVSSEQQHLKGQTGTNGGNVKLYTTDQSTFDILQDLEFSSG SPGKETNESPWRSDLLIDENCLLSPLAGEDDSFLLEGNSNEDCKPLILPDTKPKIKDNGDLVLSSPSNVT LPQVKTEKEDFIELCTPGVIKQEKLGTVYCQASFPGANIIGNKMSAISVHGVSTSGGQMYHYDMNTAS LSQQQDQKPIFNVIPPIPVGSENWNRCQGSGDDNLTSLGTLNFPGRTVFSNGYSSPSMRPDVSSPPS SSSTATTGPPPKLCLVCSDEASGCHYGVLTCGSCKVFFKRAVEGQHNYLCAGRNDCIIDKIRRKNCPA CRYRKCLQAGMNLEARKTKKKIKGIQQATTGVSQETSENPGNKTIVPATLPQLTPTLVSLLEVIEPEVLY AGYDSSVPDSTWRIMTTLNMLGGRQVIAAVKWAKAIPGFRNLHLDDQMTLLQYSWMFLMAFALG WRSYRQSSANLLCFAPDLIINEQRMTLPCMYDQCKHMLYVSSELHRLQVSYEEYLCMKTLLLLSSVPK DGLKSQELFDEIRMTYIKELGKAIVKREGNSSQNWQRFYQLTKLLDSMHEVVENLLNYCFQTFLDKTM SIEFPEMLAEIITNQIPKYSNGNIKKLLFHQ

>DP00032

PASSLDELVALCKRRGFIFQSSEIYGGLQGVYDYGPLGVELKNNLKQAWWRRNVYERDDMEGLDAS VLTHRLVLHYSGHEATFADPMVDNRITKKRYRLDHLLKEQPEEVLKRLYRAMEVEEENLHALVQAMM QAPERAGGAMTAAGVLDPASGEPGDWTPPRYFNMMFKTYVGPVEDEASLAYLRPETAQGIFVNFK NVLDATSRKLPFGIAQIGKAFRNEITPRNFIFRVREFEQMEIEYFVRPGEDEYWHRYWVEERLKWWQE MGLSRENLVPYQQPPEELAHYAKATVDILYRFPHGLEELEGIANRTDFDLGSHTKDQEALGITARVLRN EHSTQRLAYRDPETGKWFVPYVIEPSAGVDRGVLALLAEAFTREELPNGEERIVLKLKPQLAPIKVAVIPL VKNRPEITEYAKRLKARLLALGLGRVLYEDTGNIGKAYRRHDEVGTPFAVTVDYDTIGQSKDGTTRLKD TVTVRDRDTMEQIRLHVDELEGFLRERLR

>DP00033

FSGSEATAAILSRAPWSLQSVNPGLKTNSSKEPKFTKCRSPERETFSCHWTDEVHHGTKNLGPIQLFYT RRNTQEWTQEWKECPDYVSAGENSCYFNSSFTSIWIPYCIKLTSNGGTVDEKCFSVDEIVQPDPPIAL NWTLLNVSLTGIHADIQVRWEAPRNADIQKGWMVLEYELQYKEVNETKWKMMDPILTTSVPVYSLK VDKEYEVRVRSKQRNSGNYGEFSEVLYVTLPQMSQFTCEEDF

>DP00035

GCTLSAEDKAAVERSKMIDRNLREDGEKAAREVKLLLLGAGESGKSTIVKQMKIIHEAGYSEEECKQYK AVVYSNTIQSIIAIIRAMGRLKIDFGDAARADDARQLFVLAGAAEEGFMTAELAGVIKRLWKDSGVQA CFNRSREYQLNDSAAYYLNDLDRIAQPNYIPTQQDVLRTRVKTTGIVETHFTFKDLHFKMFDVGGQR SERKKWIHCFEGVTAIIFCVALSDYDLVLAEDEEMNRMHESMKLFDSICNNKWFTDTSIILFLNKKDLFE EKIKKSPLTICYPEYAGSNTYEEAAAYIQCQFEDLNKRKDTKEIYTHFTCATDTKNVQFVFDAVTDVIIKN NLKDCGL

>DP00036

MGHNDSVETMDEISNPNNILLPHDGTGLDATGISGSQEPYGMVDVLNPDSLKDDSNVDEPLIEDIVN PSLDPEGVVSAEPSNEVGTPLLQQPISLDHVITRPASAGGVYSIGNSSTSSAAKLSDGDLTNATDPLLN NAHGHGQPSSESQSHSNGYHKQGQSQQPLLSLNKRKLLAKAHVDKHHSKKKLSTTRARPAFVNKL WSMVNDKSNEKFIHWSTSGESIVVPNRERFVQEVLPKYFKHSNFASFVRQLNMYGWHKVQDVKSG SMLSNNDSRWEFENENFKRGKEYLLENIVRQKSNTNILGGTTNAEVDIHILLNELETVKYNQLAIAEDL KRITKDNEMLWKENMMARERHQSQQQVLEKLLRFLSSVFGPNSAKTIGNGFQPDLIHELSDMQVN HMSNNNHNNTGNINPNAYHNETDDPMANVFGPLTPTDQGKVPLQDYKLRPRLLLKNRSMSSSSSS NLNQRQSPQNRIVGQSPPPQQQQQQQQQQQQQQGQFSYPIQGGNQMMNQLGSPIGTQVGS PVGSQYGNQYGNQYSNQFGNQLQQQTSRPALHHGSNGEIRELTPSIVSSDSPDPAFFQDLQNNID KQEESIQEIQDWITKLNPGPGEDGNTPIFPELNMPSYFANTGGSGQSEQPSDYGDSQIEELRNSRLHE PDRSFEEKNNGQKRRRA

>DP00037

MPGSIPLIGERFPEMEVTTDHGVIKLPDHYVSQGKWFVLFSHPADFTPVCTTEFVSFARRYEDFQRLGV DLIGLSVDSVFSHIKWKEWIERHIGVRIPFPIIADPQGTVARRLGLLHAESATHTVRGVFIVDARGVIRTM LYYPMELGRLVDEILRIVKALKLGDSLKRAVPADWPNNEIIGEGLIVPPPTTEDQARARMESGQYRCLD WWFCWDTPASRDDVEEARRYLRRAAEKPAKLLYEEARTHL

>DP00041

>DP00046

MPOLSGGGGGDPELCATDEMIPFKDEGDPOKEKIFAEISHPEEEGDLADIKSSLVNESEIIPASNGHE

>DP00048

MGGKWSKSSVVGWPTVRERMRRAEPAADGVGAASRDLEKHGAITSSNTAATNAACAWLEAQEEEE VGFPVTPQVPLRPMTYKAAVDLSHFLKEKGGLEGLIHSQRRQDILDLWIYHTQGYFPDWQNYTPGPG VRYPLTFGWCYKLVPVEPDKVEEANKGENTSLLHPVSLHGMDDPEREVLEWRFDSRLAFHHVARELH PEYFKN

>DP00049

MDVDAEEKRHRTRSKGVRVPVEPAIQELFSCPTPGCDGTGHVSGKYARHRSVYGCPLAKKRKTQDK QPQEPAPKRKPFAVKADSSSVDECYESDGTEDMDDKEEDDDEEFSEDNDEQGDDDDEDEVDREDE NYDELVAKSLLNLGKIAEDAAYRARTESEVNSNTSNSLEDHSSKNENLGRKSELSLDLDSDVVRETVDS LKLLAQGHGVVLSENISDRSYAEGMSQQDSRNMNYVMLGKPMNNGLMEKMVEESDEEVCLSSLEC LRNQCFDLARKLSETNPQDRSQPPNMSVRQHVRQEDDFPGRTPDRSYSDMMNLMRLEEQLSPRSR TFSSCAKEDGCHERDDDTTTVNSDRSEEVFDMTKGNLTLLEKAIALETERAKAMREKMAMDAGRRD NLRSYEDOSPROLAGEDRKSKSSDSHVKKPYYDPSRTEKRESKCPTPGCDGTGHVNGLYPHHRSLSG CPHKDRVPPEILAMHENVLKCPTPGCTGRGHVNSNRNSHRSLSGCPIAAAEKLAKAQEKHQSCDVS KSNOASDRVLRPMCFVKOLEIPOYGYRNNVPTTTPRSNLAKELEKYSKTSFEYNSYDNHTYGKRAIAP RCKPGTYPPKDMTMPSGTGKNASPSSSTTSSYAPSSSSNLSCGGGSSASSTCSKSSFDYTHDMEAAH MAATAILNLSTRCREMPQNLSTKPQDLCTARNPDMEVDENGTLDLSMNKQRPRDSCCPVLTPLEP MSPOOOAVMSSRCFOLSEGDCWDLPVDYTKMKPRRVDEEDPKEITPEDLDPFOEALEERRYPGEVTI PSPKPKYPQCKESKKDLITLSGCPLADKSIRSMLATSSQELKCPTPGCDGSGHITGNYASHRSLSGCPR AKKSGIRIAQSKEDKEDQEPIRCPVPGCDGQGHITGKYASHRSASGCPLAAKRQKDGYLNGSQFSWK SVKTEGMSCPTPGCDGSGHVSGSFLTHRSLSGCPRATSAMKKAKLSGEQMLTIKQRASNGIENDEEIK OLDEEIKELNESNSOMEADMIKLRTOVTITTMESNLKTIEEENKVIEOONESLLHELANLSOSLIHSLANI OLPHMDPINEONFDAYVTTLTEMYTNODRYOSPENKALLENIKOAVRGIO

MSFGSADALLGAPFAPLHGGGSLHYSLSRKAGPGGTRSAAGSSSGFHSWARTSVSSVSASPSRFRGA ASSTDSLDTLSNGPEGCVVAAVAARSEKEQLQALNDRFAGYIDKVRQLEAHNRSLEGEAAALRQQK GRAAMGELYEREVREMRGAVLRLGAARGQLRLEQEHLLEDIAHVRQRLDEEARQREEAEAAARALAF AQEAEAARVELQKKAQALQEECGYLRRHHQEEVGELLGQIQGCGAAQAQAQAEARDALKCDVTSA LREIRAOLEGHAVOSSLOSEEWFRVRLDRLSEAAKVNTDAMRSAOEEITEYRROLOARTTELEALKSTK ESLERQRSELEDRHQADIASYQDAIQQLDSELRNTKWEMAAQLREYQDLLNVKMALDIEIAAYRKLLE GEECRIGFGPSPFSLTEGLPKIPSISTHIKVKSEEMIKVVEKSEKETVIVEGOTEEIRVTEGVTEEEDKEAOG QEGEEAEEGEEKEEELAAATSPPAEEAASPEKETKSRVKEEAKSPGEAKSPGEAKSPAEAKSPGEAKSP GEAKSPGEAKSPAEPKSPAEPKSPAEAKSPAEPKSPATVKSPGEAKSPSEAKSPAEAKSPAEAKSPAEAK SPAEAKSPAEAKSPAEAKSPATVKSPGEAKSPSEAKSPAEAKSPAEAKSPAEAKSPAEVKSPGEAKSPAE PKSPAEAKSPAEVKSPAEAKSPAEVKSPGEAKSPAAVKSPAEAKSPAAVKSPGEAKSPAEAKS PAEAKSPIEVKSPEKAKTPVKEGAKSPAEAKSPEKAKSPVKEDIKPPAEAKSPEKAKSPVKEGAKPPEKAK PLDVKSPEAQTPVQEEATVPTDIRPPEQVKSPAKEKAKSPEKEEAKTSEKVAPKKEEVKSPVKEEVKAKE PPKKVEEEKTLPTPKTEAKESKKDEAPKEAPKPKVEEKKETPTEKPKDSTAEAKKEEAGEKKKAVASEEET PAKLGVKEEAKPKEKTETTKTEAEDTKAKEPSKPTETEKPKKEEMPAAPEKKDTKEEKTTESRKPEEKPKM EAKVKEDDKSLSKEPSKPKTEKAEKSSSTDQKESQPPEKTTEDKATKGE

>DP00051

GAMDIVVNDDLSCRFLEGFNTRDALCKKISMNTCDEGDPFFVADLGDIVRKHETWKKCLPRVTPFYA

VACNDDWRVLGTLAALGTGFDCASNTEIQRVRGIGVPPEKIIYANPCKQISHIRYARDSGVDVMTFDC VDELEKVAKTHPKAKMVLRISTDDSLARCRLSVKFGAKVEDCRFILEQAKKLNIDVTGVSFHVGSGSTD ASTFAQAISDSRFVFDMGTELGFNMHILDIGGGFPGTRDAPLKFEEIAGVINNALEKHFPPDLKLTIVAE PGRYYVASAFTLAVNVIAKKVTPGVQTDVGAHAESNAQSFMYYVNDGVYGSFNCILYDHAVVRPLP QREPIPNEKLYPSSVWGPTCDGLDQIVERYYLPEMQVGEWLLFEDMGAYTVVGTSSFNGFQSPTIYYV VSGLPDHVVRELKSQK

>DP00052

MRAWIFFLLCLAGRALAAPQQTEVAEEIVEEETVVEETGVPVGANPVQVEMGEFEDGAEETVEEVVA DNPCQNHHCKHGKVCELDESNTPMCVCQDPTSCPAPIGEFEKVCSNDNKTFDSSCHFFATKCTLEG TKKGHKLHLDYIGPCKYIAPCLDSELTEFPLRMRDWLKNVLVTLYERDEGNNLLTEKQKLRVKKIHENE KRLEAGDHPVELLARDFEKNYNMYIFPVHWQFGQLDQHPIDGYLSHTELAPLRAPLIPMEHCTTRFFE TCDLDNDKYIALEEWAGCFGIKEQDINKDLV

>DP00053

MLEEALAAIQNARDLEELKALKARYLGKKGLLTQEMKGLSALPLEERRKRGQELNAIKAALEAALEARE KALEEAALKEALERERVDVSLPGASLFSGGLHPITLMERELVEIFRALGYQAVEGPEVESEFFNFDALNIP EHHPARDMWDTFWLTGEGFRLEGPLGEEVEGRLLLRTHTSPMQVRYMVAHTPPFRIVVPGRVFRFE QTDATHEAVFHQLEGLVVGEGIAMAHLKGAIYELAQALFGPDSKVRFQPVYFPFVEPGAQFAVWWP EGGKWLELGGAGMVHPKVFQAVDAYRERLGLPPAYRGVTGFAFGLGVERLAMLRYGIPDIRYFFGGR LKFLEOFKGV

>DP00055

MDSGRDFLTLHGLQDDPDLQALLKGSQLLKVKSSSWRRERFYKLQEDCKTIWQESRKVMRSPESQLF SIEDIQEVRMGHRTEGLEKFARDIPEDRCFSIVFKDQRNTLDLIAPSPADAQHWVQGLRKIIHHSGSM DQRQKLQHWIHSCLRKADKNKDNKMNFKELKDFLKELNIQVDDGYARKIFRECDHSQTDSLEDEEIE TFYKMLTQRAEIDRAFEEAAGSAETLSVERLVTFLQHQQREEEAGPALALSLIERYEPSETAKAQRQMT KDGFLMYLLSADGNAFSLAHRRVYQDMDQPLSHYLVSSSHNTYLLEDQLTGPSSTEAYIRALCKGCR CLELDCWDGPNQEPIIYHGYTFTSKILFCDVLRAIRDYAFKASPYPVILSLENHCSLEQQRVMARHLRAI LGPILLDQPLDGVTTSLPSPEQLKGKILLKGKKLGGLLPAGGENGSEATDVSDEVEAAEMEDEAVRSQV OHKPKEDKLKLVPELSDMIIYCKSVHFGGFSSPGTSGQAFYEMASFSESRALRLLQESGNGFVRHNVS

CLSRIYPAGWRTDSSNYSPVEMWNGGCQIVALNFQTPGPEMDVYLGCFQDNGGCGYVLKPAFLRD PNTTFNSRALTQGPWWRPERLRVRIISGQQLPKVNKNKNSIVDPKVIVEIHGVGRDTGSRQTAVITNN GFNPRWDMEFEFEVTVPDLALVRFMVEDYDSSSKNDFIGQSTIPWNSLKQGYRHVHLLSKNGDQHP SATLFVKISIO

>DP00057

MVGQLSEGAIAAIMQKGDTNIKPILQVINIRPITTGNSPPRYRLLMSDGLNTLSSFMLATQLNPLVEEE QLSSNCVCQIHRFIVNTLKDGRRVVILMELEVLKSAEAVGVKIGNPVPYNEGLGQPQVAPPAPAASPA ASSRPQPQNGSSGMGSTVSKAYGASKTFGKAAGPSLSHTSGGTQSKVVPIASLTPYQSKWTICARVT NKSQIRTWSNSRGEGKLFSLELVDESGEIRATAFNEQVDKFFPLIEVNKVYYFSKGTLKIANKQFTAVKN DYEMTFNNETSVMPCEDDHHLPTVQFDFTGIDDLENKSKDSLVDIIGICKSYEDATKITVRSNNREVAK RNIYLMDTSGKVVTATLWGEDADKFDGSRQPVLAIKGARVSDFGGRSLSVLSSSTIIANPDIPEAYKLR GWFDAEGQALDGVSISDLKSGGVGGSNTNWKTLYEVKSENLGQGDKPDYFSSVATVVYLRKENCM YQACPTQDCNKKVIDQQNGLYRCEKCDTEFPNFKYRMILSVNIADFQENQWVTCFQESAEAILGQN AAYLGELKDKNEQAFEEVFQNANFRSFIFRVRVKVETYNDESRIKATVMDVKPVDYREYGRRLVMSIR RSAL

>DP00062

MDTKHFLPLDFSTQVNSSLTSPTGRGSMAAPSLHPSLGPGIGSPGQLHSPISTLSSPINGMGPPFSVISS PMGPHSMSVPTTPTLGFSTGSPQLSSPMNPVSSSEDIKPPLGLNGVLKVPAHPSGNMASFTKHICAIC GDRSSGKHYGVYSCEGCKGFFKRTVRKDLTYTCRDNKDCLIDKRQRNRCQYCRYQKCLAMGMKREA VQEERQRGKDRNENEVESTSSANEDMPVERILEAELAVEPKTETYVEANMGLNPSSPNDPVTNICQA ADKQLFTLVEWAKRIPHFSELPLDDQVILLRAGWNELLIASFSHRSIAVKDGILLATGLHVHRNSAHSA

GVGAIFDRVLTELVSKMRDMQMDKTELGCLRAIVLFNPDSKGLSNPAEVEALREKVYASLEAYCKHKY PEOPGRFAKLLRLPALRSIGLKCLEHLFFFKLIGDTPIDTFLMEMLEAPHOM

>DP00063

MLNRENKTAITRKGMVSNRLNKFSIRKYTVGTASILVGTTLIFGLGNQEAKAAESTNKELNEATTSASD NQSSDKVDMQQLNQEDNTKNDNQKEMVSSQGNETTSNGNKLIEKESVQSTTGNKVEVSTAKSDE QASPKSTNEDLNTKQTISNQEALQPDLQENKSVVNVQPTNEENKKVDAKTESTTLNVKSDAIKSNDE TLVDNNSNSNNENNADIILPKSTAPKRLNTRMRIAAVOPSSTEAKNVNDLITSNTTLTVVDADKNNKI VPAQDYLSLKSQITVDDKVKSGDYFTIKYSDTVQVYGLNPEDIKNIGDIKDPNNGETIATAKHDTANNL ITYTFTDYVDRFNSVQMGINYSIYMDADTIPVSKNDVEFNVTIGNTTTKTTANIQYPDYVVNEKNSIGS AFTETVSHVGNKENPGYYKQTIYVNPSENSLTNAKLKVQAYHSSYPNNIGQINKDVTDIKIYQVPKGY TLNKGYDVNTKELTDVTNQYLQKITYGDNNSAVIDFGNADSAYVVMVNTKFQYTNSESPTLVQMAT LSSTGNKSVSTGNALGFTNNQSGGAGQEVYKIGNYVWEDTNKNGVQELGEKGVGNVTVTVFDNN TNTKVGEAVTKEDGSYLIPNLPNGDYRVEFSNLPKGYEVTPSKQGNNEELDSNGLSSVITVNGKDNLS ADLGIYKPKYNLGDYVWEDTNKNGIODODEKGISGVTVTLKDENGNVLKTVTTDADGKYKFTDLDN GNYKVEFTTPEGYTPTTVTSGSDIEKDSNGLTTTGVINGADNMTLDSGFYKTPKYNLGNYVWEDTNK DGKQDSTEKGISGVTVTLKNENGEVLQTTKTDKDGKYQFTGLENGTYKVEFETPSGYTPTQVGSGTDE GIDSNGTSTTGVIKDKDNDTIDSGFYKPTYNLGDYVWEDTNKNGVQDKDEKGISGVTVTLKDENDKV LKTVTTDENGKYQFTDLNNGTYKVEFETPSGYTPTSVTSGNDTEKDSNGLTTTGVIKDADNMTLDSGF YKTPKYSLGDYVWYDSNKDGKODSTEKGIKDVKVTLLNEKGEVIGTTKTDENGKYCFDNLDSGKYKVI FEKPAGLTQTGTNTTEDDKDADGGEVDVTITDHDDFTLDNGYYEEETSDSDSDSDSDSDSDSDRDSDS NKAKALPETGNENSGSNNATLFGGLFAALGSLLLFGRRKKON

>DP00066

>DP00067

MAEDADMRNELEEMQRRADQLADESLESTRRMLQLVEESKDAGIRTLVMLDEQGEQLDRVEEGMN HINQDMKEAEKNLKDLGKCCGLYICPCNKLKSSDAYKKAWGNNQDQVVASQPARVVDEREQMAIS GGFIRRVTNDARENEMDEDLEQVSGIIGNLRHMALDMGNEIDTQNRQIDRIMEKADSNKTRIDEAN ORATKMLGS

>DP00071

MPVAGSELPRRPLPPAAQERDAEPRPPHGELQYLGQIQHILRCGVRKDDRTGTGTLSVFGMQARYSL RDEFPLLTTKRVFWKGVLEELLWFIKGSTNAKELSSKGVKIWDANGSRDFLDSLGFSTREEGDLGPVYG FQWRHFGAEYRDMESDYSGQGVDQLQRVIDTIKTNPDDRRIIMCAWNPRDLPLMALPPCHALCQF YVVNSELSCQLYQRSGDMGLGVPFNIASYALLTYMIAHITGLKPGDFIHTLGDAHIYLNHIEPLKIQLQR EPRPFPKLRILRKVEKIDDFKAEDFOIEGYNPHPTIKMEMA

>DP00074

MTMTLHTKASGMALLHQIQGNELEPLNRPQLKIPLERPLGEVYLDSSKPAVYNYPEGAAYEFNAAAA ANAQVYGQTGLPYGPGSEAAAFGSNGLGGFPPLNSVSPSPLMLLHPPPQLSPFLQPHGQQVPYYLE NEPSGYTVREAGPPAFYRPNSDNRROGGRERLASTNDKGSMAMESAKETRYCAVCNDYASGYHYG VWSCEGCKAFFKRSIQGHNDYMCPATNQCTIDKNRRKSCQACRLRKCYEVGMMKGGIRKDRRGGR MLKHKRORDDGEGRGEVGSAGDMRAANLWPSPLMIKRSKKNSLALSLTADOMVSALLDAEPPILYS EYDPTRPFSEASMMGLLTNLADRELVHMINWAKRVPGFVDLTLHDQVHLLECAWLEILMIGLVWRS MEHPGKLLFAPNLLLDRNQGKCVEGMVEIFDMLLATSSRFRMMNLQGEEFVCLKSIILLNSGVYTFLSS TLKSLEEKDHIHRVLDKITDTLIHLMAKAGLTLQQQHQRLAQLLLILSHIRHMSNKGMEHLYSMKCKN VVPLYDLLLEMLDAHRLHAPTSRGGASVEETDQSHLATAGSTSSHSLQKYYITGEAEGFPAT >DP00075

MSGDHLHNDSQIEADFRLNDSHKHKDKHKDREHRHKEHKKEKDREKSKHSNSEHKDSEKKHKEKEK
TKHKDGSSEKHKDKHKDRDKEKRKEEKVRASGDAKIKKEKENGFSSPPQIKDEPEDDGYFVPPKEDIKP
LKRPRDEDDADYKPKKIKTEDTKKEKKRKLEEEEDGKLKKPKNKDKDKKVPEPDNKKKKPKKEEEQKWK
WWEEERYPEGIKWKFLEHKGPVFAPPYEPLPENVKFYYDGKVMKLSPKAEEVATFFAKMLDHEYTTKEI
FRKNFFKDWRKEMTNEEKNIITNLSKCDFTQMSQYFKAQTEARKQMSKEEKLKIKEENEKLLKEYGFCI
MDNHKERIANFKIEPPGLFRGRGNHPKMGMLKRRIMPEDIIINCSKDAKVPSPPPGHKWKEVRHDNK
VTWLVSWTENIQGSIKYIMLNPSSRIKGEKDWQKYETARRLKKCVDKIRNQYREDWKSKEMKVRQRA
VALYFIDKLALRAGNEKEEGETADTVGCCSLRVEHINLHPELDGQEYVVEFDFLGKDSIRYYNKVPVEK
RVFKNLQLFMENKQPEDDLFDRLNTGILNKHLQDLMEGLTAKVFRTYNASITLQQQLKELTAPDENIP
AKILSYNRANRAVAILCNHQRAPPKTFEKSMMNLQTKIDAKKEQLADARRDLKSAKADAKVMKDAK
TKKVVESKKKAVQRLEEQLMKLEVQATDREENKQIALGTSKLNYLDPRITVAWCKKWGVPIEKIYNKT
QREKFAWAIDMADEDYE

>DP00076

MSTEPVSASDKYQKISQLEHILKRPDTYIGSVETQEQLQWIYDEETDCMIEKNVTIVPGLFKIFDEILVNA ADNKVRDPSMKRIDVNIHAEEHTIEVKNDGKGIPIEIHNKENIYIPEMIFGHLLTSSNYDDDEKKVTGGR NGYGAKLCNIFSTEFILETADLNVGQKYVQKWENNMSICHPPKITSYKKGPSYTKVTFKPDLTRFGMKE LDNDILGVMRRRVYDINGSVRDINVYLNGKSLKIRNFKNYVELYLKSLEKKRQLDNGEDGAAKSDIPTIL YERINNRWEVAFAVSDISFOOISFVNSIATTMGGTHVNYITDOIVKKISEILKKKKKKSVKSFOIKNNMFI FINCLIENPAFTSOTKEOLTTRVKDFGSRCEIPLEYINKIMKTDLATRMFEIADANEENALKKSDGTRKSR ITNYPKLEDANKAGTKEGYKCTLVLTEGDSALSLAVAGLAVVGRDYYGCYPLRGKMLNVREASADQIL KNAEIQAIKKIMGLQHRKKYEDTKSLRYGHLMIMTDQDHDGSHIKGLIINFLESSFPGLLDIQGFLLEFIT PIIKVSITKPTKNTIAFYNMPDYEKWREEESHKFTWKQKYYKGLGTSLAQEVREYFSNLDRHLKIFHSLQ GNDKDYIDLAFSKKKADDRKEWLROYEPGTVLDPTLKEIPISDFINKELILFSLADNIRSIPNVLDGFKPG QRKVLYGCFKKNLKSELKVAQLAPYVSECTAYHHGEQSLAQTIIGLAQNFVGSNNIYLLLPNGAFGTR ATGGKDAAAARYIYTELNKLTRKIFHPADDPLYKYIQEDEKTVEPEWYLPILPMILVNGAEGIGTGWSTY IPPFNPLEIIKNIRHLMNDEELEQMHPWFRGWTGTIEEIEPLRYRMYGRIEQIGDNVLEITELPARTWTST IKEYLLLGLSGNDKIKPWIKDMEEQHDDNIKFIITLSPEEMAKTRKIGFYERFKLISPISLMNMVAFDPHG KIKKYNSVNEILSEFYYVRLEYYQKRKDHMSERLQWEVEKYSFQVKFIKMIIEKELTVTNKPRNAIIQELE NLGFPRFNKEGKPYYGSPNDEIAEQINDVKGATSDEEDEESSHEDTENVINGPEELYGTYEYLLGMRIW SLTKERYOKLLKOKOEKETELENLLKLSAKDIWNTDLKAFEVGYOEFLORDAEARGGNVPNKGSKTKG KGKRKLVDDEDYDPSKKNKKSTARKGKKIKLEDKNFERILLEQKLVTKSKAPTKIKKEKTPSVSETKTEEEE NAPSSTSSSSIFDIKKEDKDEGELSKISNKFKKISTIFDKMGSTSATSKENTPEODDVATKKNOTTAKKTA VKPKLAKKPVRKQQKVVELSGESDLEILDSYTDREDSNKDEDDAIPQRSRRQRSSRAASVPKKSYVETL ELSDDSFIEDDEEENQGSDVSFNEE

>DP00077

MANVEKPNDCSGFPVVDLNSCFSNGFNNEKQEIEMETDDSPILLMSSSASRENSNTFSVIQRTPDGKI ITTNNNMNSKINKOLDKLPENLRLNGRTPSGKLRSFVCEVCTRAFAROEHLKRHYRSHTNEKPYPCGL CNRCFTRRDLLIRHAOKIHSGNLGETISHTKKVSRTITKARKNSASSVKFOTPTYGTPDNGNFLNRTTA NTRRKASPEANVKRKYLKKLTRRASFSAQSASSYALPDQSSLEQHPKDRVKFSTPELVPLDLKNPELDS SFDLNMNLDLNLNLDSNFNIALNRSDSSGSTMNLDYKLPESANNYTYSSGSPTRAYVGANTNSKNA SFNDADLLSSSYWIKAYNDHLFSVSESDETSPMNSELNDTKLIVPDFKSTIHHLKDSRSSSWTVAIDNN SNNNKVSDNOPDFVDFOELLDNDTLGNDLLETTAVLKEFELLHDDSVSATATSNEIDLSHLNLSNSPI SPHKLIYKNKEGTNDDMLISFGLDHPSNREDDLDKLCNMTRDVQAIFSQYLKGEESKRSLEDFLSTSN RKEKPDSGNYTFYGLDCLTLSKISRALPASTVNNNQPSHSIESKLFNEPMRNMCIKVLRYYEKFSHDSS ESVMDSNPNLLSKELLMPAVSELNEYLDLFKNNFLPHFPIIHPSLLDLDLDSLQRYTNEDGYDDAENA QLFDRLSQGTDKEYDYEHYQILSISKIVCLPLFMATFGSLHKFGYKSQTIELYEMSRRILHSFLETKRRCRS TTVNDSYQNIWLMQSLILSFMFALVADYLEKIDSSLMKRQLSALCSTIRSNCLPTISANSEKSINNNNEP LTFGSPLOYIIFESKIRCTLMAYDFCOFLKCFFHIKFDLSIKEKDVETIYIPDNESKWASESIICNGHVVOK ONFYDFRNFYYSFTYGHLHSIPEFLGSSMIYYEYDLRKGTKSHVFLDRIDTKRLERSLDTSSYGNDNMA ATNKNIAILIDDTIILKNNLMSMRFIKQIDRSFTEKVRKGQIAKIYDSFLNSVRLNFLKNYSVEVLCEFLVA LNFSIRNISSLYVEEESDCSQRMNSPELPRIHLNNQALSVFNLQGYYYCFILIIKFLLDFEATPNFKLLRIFIE LRSLANSILLPTLSRLYPQEFSGFPDVVFTQQFINKDNGMLVPGLSANEHHNGASAAVKTKLAKKINVE GLAMFINEILVNSFNDTSFLNMEDPIRNEFSFDNGHRAVTDLPRSAHFLSDTGLEGINFSGLNDSHOT VSTLNLLRYGENHSSKHKNGGKGOGFAEKYOLSLKYVTIAKLFFTNVKENYIHCHMLDKMASDFHTLE **NHLKGN**

>DP00078

MMFSGFNADYEASSSRCSSASPAGDSLSYYHSPADSFSSMGSPVNAQDFCTDLAVSSANFIPTVTAIS TSPDLQWLVQPALVSSVAPSQTRAPHPFGVPAPSAGAYSRAGVVKTMTGGRAQSIGRRGKVEQLSP EEEEKRRIRRERNKMAAAKCRNRRRELTDTLQAETDQLEDEKSALQTEIANLLKEKEKLEFILAAHRPAC KIPDDLGFPEEMSVASLDLTGGLPEVATPESEEAFTLPLLNDPEPKPSVEPVKSISSMELKTEPFDDFLFP ASSRPSGSETARSVPDMDLSGSFYAADWEPLHSGSLGMGPMATELEPLCTPVVTCTPSCTAYTSSFVF TYPEADSFPSCAAAHRKGSSSNEPSSDSLSSPTLLA

>DP00080

MTMESGAENQQSGDAAVTEAENQQMTVQAQPQIATLAQVSMPAAHATSSAPTVTLVQLPNGQT VQVHGVIQAAQPSVIQSPQVQTVQSSCKDLKRLFSGTQISTIAESEDSQESVDSVTDSQKRREILSRRP SYRKILNDLSSDAPGVPRIEEEKSEEETSAPAITTVTVPTPIYQTSSGQYIAITQGGAIQLANNGTDGVQ GLQTLTMTNAAATQPGTTILQYAQTTDGQQILVPSNQVVVQAASGDVQTYQIRTAPTSTIAPGVVM ASSPALPTQPAEEAARKREVRLMKNREAARECRRKKKEYVKCLENRVAVLENQNKTLIEELKALKDLYC HKS

>DP00083

MSEYQPSLFALNPMGFSPLDGSKSTNENVSASTSTAKPMVGQLIFDKFIKTEEDPIIKQDTPSNLDFDF ALPQTATAPDAKTVLPIPELDDAVVESFFSSSTDSTPMFEYENLEDNSKEWTSLFDNDIPVTTDDVSLA DKAIESTEEVSLVPSNLEVSTTSFLPTPVLEDAKLTQTRKVKKPNSVVKKSHHVGKDDESRLDHLGVVA YNRKQRSIPLSPIVPESSDPAALKRARNTEAARRSRARKLQRMKQLEDKVEELLSKNYHLENEVARLKK LVGE

>DP00086

MEEPQSDPSVEPPLSQETFSDLWKLLPENNVLSPLPSQAMDDLMLSPDDIEQWFTEDPGPDEAPRM PEAAPPVAPAPAPAPAPAPSWPLSSSVPSQKTYQGSYGFRLGFLHSGTAKSVTCTYSPALNKM FCQLAKTCPVQLWVDSTPPPGTRVRAMAIYKQSQHMTEVVRRCPHHERCSDSDGLAPPQHLIRVEG NLRVEYLDDRNTFRHSVVVPYEPPEVGSDCTTIHYNYMCNSSCMGGMNRRPILTIITLEDSSGNLLGR NSFEVRVCACPGRDRRTEEENLRKKGEPHHELPPGSTKRALPNNTSSSPQPKKKPLDGEYFTLQIRGRE

RFEMFRELNEALELKDAQAGKEPGGSRAHSSHLKSKKGQSTSRHKKLMFKTEGPDS

>DP00087

MDLLVDDLFADADGVSPPPPRPAGGPKNTPAAPPLYATGRLSQAQLMPSPPMPVPPAALFNRLLDD LGFSAGPALCTMLDTWNEDLFSGFPTNADMYRECKFLSTLPSDVIDWGDAHVPERSPIDIRAHGDVA FPTLPATRDELPSYYEAMAQFFRGELRAREESYRTVLANFCSALYRYLRASVRQLHRQAHMRGRNRD LREMLRTTIADRYYRETARLARVLFLHLYLFLSREILWAAYAEQMMRPDLFDGLCCDLESWRQLACLF QPLMFINGSLTVRGVPVEARRLRELNHIREHLNLPLVRSAAAEEPGAPLTTPPVLQGNQARSSGYFML LIRAKLDSYSSVATSEGESVMREHAYSRGRTRNNYGSTIEGLLDLPDDDDAPAEAGLVAPRMSFLSAG QRPRRLSTTAPITDVSLGDELRLDGEEVDMTPADALDDFDLEMLGDVESPSPGMTHDPVSYGALDV DDFEFEOMFTDAMGIDDFG

>DP00088

MFGKLSLDAVPFHEPIVMVTIAGIILGGLALVGLITYFGKWTYLWKEWLTSVDHKRLGIMYIIVAIVMLLR GFADAIMMRSQQALASAGEAGFLPPHHYDQIFTAHGVIMIFFVAMPFVIGLMNLVVPLQIGARDVAF PFLNNLSFWFTVVGVILVNVSLGVGEFAQTGWLAYPPLSGIEYSPGVGVDYWIWSLQLSGIGTTLTGI NFFVTILKMRAPGMTMFKMPVFTWASLCANVLIIASFPILTVTVALLTLDRYLGTHFFTNDMGGNMM MYINLIWAWGHPEVYILILPVFGVFSEIAATFSRKRLFGYTSLVWATVCITVLSFIVWLHHFFTMGAGAN VNAFFGITTMIIAIPTGVKIFNWLFTMYQGRIVFHSAMLWTIGFIVTFSVGGMTGVLLAVPGADFVLHN SLFLIAHFHNVIIGGVVFGCFAGMTYWWPKAFGFKLNETWGKRAFWFWIIGFFVAFMPLYALGFMG MTRRLSQQIDPQFHTMLMIAASGAVLIALGILCLVIQMYVSIRDRDQNRDLTGDPWGGRTLEWATSS PPPFYNFAVVPHVHERDAFWEMKEKGEAYKKPDHYEEIHMPKNSGAGIVIAAFSTIFGFAMIWHIWW LAIVGFAGMIITWIVKSFDEDVDYYVPVAEIEKLENQHFDEITKAGLKNG

>DP00089

MRLRKYNKSLGWLSLFAGTVLLSGCNSALLDPKGQIGLEQRSLILTAFGLMLIVVIPAILMAVGFAWKY RASNKDAKYSPNWSHSNKVEAVVWTVPILIIIFLAVLTWKTTHALEPSKPLAHDEKPITIEVVSMDWK WFFIYPEQGIATVNEIAFPANTPVYFKVTSNSVMNSFFIPRLGSQIYAMAGMQTRLHLIANEPGTYDGI SASYSGPGFSGMKFKAIATPDRAAFDQWVAKAKQSPNTMSDMAAFEKLAAPSEYNQVEYFSNVKP DLFADVINKFMAHGKSMDMTQPEGEHSAHEGMEGMDMSHAESA

>DP00090

>DP00091

>DP00092

MSEPKAIDPKLSTTDRVVKAVPFPPSHRLTAKEVFDNDGKPRVDILKAHLMKEGRLEESVALRIITEGASI LRQEKNLLDIDAPVTVCGDIHGQFFDLMKLFEVGGSPANTRYLFLGDYVDRGYFSIECVLYLWALKILY PKTLFLLRGNHECRHLTEYFTFKQECKIKYSERVYDACMDAFDCLPLAALMNQQFLCVHGGLSPEINT LDDIRKLDRFKEPPAYGPMCDILWSDPLEDFGNEKTQEHFTHNTVRGCSYFYSYPAVCEFLQHNNLLS ILRAHEAQDAGYRMYRKSQTTGFPSLITIFSAPNYLDVYNNKAAVLKYENNVMNIRQFNCSPHPYWL PNFMDVFTWSLPFVGEKVTEMLVNVLNICSDDELGSEEDGFDGATAAARKEVIRNKIRAIGKMARVFS VLREESESVLTLKGLTPTGMLPSGVLSGGKQTLQSATVEAIEADEAIKGFSPQHKITSFEEAKGLDRINER MPPRRDAMPSDANLNSINKALTSETNGTDSNGSNSSNI

KEVEQNSGPLSVPEGAIASLNCTYSDRGSQSFFWYRQYSGKSPELIMSIYSNGDKEDGRFTAQLNKAS QYVSLLIRDSQPSDSATYLCAVTTDSWGKLQFGAGTQVVVTPDIQNPDPAVYQLRDSKSSDKSVCLF TDFDSQTNVSQSKDSDVYITDKTVLDMRSMDFKSNSAVAWSNKSDFACANAFNNSIIPEDTFFPSPE S

>DP00094

MPTPSAPSPQPKGFRRAVSEQDAKQAEAVTSPRFIGRRQSLIEDARKEREAAAAAAAAAAAAVASSEPGN PLEAVVFEERDGNAVLNLLFSLRGTKPSSLSRAVKVFETFEAKIHHLETRPAQRPLAGSPHLEYFVRFEVP SGDLAALLSSVRRVSDDVRSAREDKVPWFPRKVSELDKCHHLVTKFDPDLDLDHPGFSDQVYRQRRK LIAEIAFQYKHGEPIPHVEYTAEEIATWKEVYVTLKGLYATHACREHLEGFQLLERYCGYREDSIPQLEDV SRFLKERTGFQLRPVAGLLSARDFLASLAFRVFQCTQYIRHASSPMHSPEPDCCHELLGHVPMLADRT FAQFSQDIGLASLGASDEEIEKLSTVYWFTVEFGLCKQNGELKAYGAGLLSSYGELLHSLSEEPEVRAFD PDTAAVQPYQDQTYQPVYFVSESFNDAKDKLRNYASRIQRPFSVKFDPYTLAIDVLDSPHTIQRSLEG VQDELHTLAHALSAI

>DP00095

MDLLAELQWRGLVNQTTDEDGLRKLLNEERVTLYCGFDPTADSLHIGHLATILTMRRFQQAGHRPIA LVGGATGLIGDPSGKKSERTLNAKETVEAWSARIKEQLGRFLDFEADGNPAKIKNNYDWIGPLDVITFL RDVGKHFSVNYMMAKESVQSRIETGISFTEFSYMMLQAYDFLRLYETEGCRLQIGGSDQWGNITAGL ELIRKTKGEARAFGLTIPLVTKADGTKFGKTESGTIWLDKEKTSPYEFYQFWINTDDRDVIRYLKYFTFLSK EEIEALEQELREAPEKRAAQKTLAEEVTKLVHGEEALRQAIRISEALFSGDIANLTAAEIEQGFKDVPSFV HEGGDVPLVELLVSAGISPSKRQAREDIQNGAIYVNGERLQDVGAILTAEHRLEGRFTVIRRGKKKYYLI RY

>DP00098

MNKNVLKFMVFIMLLNIITPLFNKNEAFAARDISSTNVTDLTVSPSKIEDGGKTTVKMTFDDKNGKION

GDMIKVAWPTSGTVKIEGYSKTVPLTVKGEQVGQAVITPDGATITFNDKVEKLSDVSGFAEFEVQGRN LTOTNTSDDKVATITSGNKSTNVTVHKSEAGTSSVFYYKTGDMLPEDTTHVRWFLNINNEKSYVSKDI TIKDQIQGGQQLDLSTLNINVTGTHSNYYSGQSAITDFEKAFPGSKITVDNTKNTIDVTIPQGYGSYNS FSINYKTKITNEQQKEFVNNSQAWYQEHGKEEVNGKSFNHTVHNINANAGIEGTVKGELKVLKQDK DTKAPIANVKFKLSKKDGSVVKDNQKEIEIITDANGIANIKALPSGDYILKEIEAPRPYTFDKDKEYPFTM KDTDNQGYFTTIENAKAIEKTKDVSAQKVWEGTQKVKPTIYFKLYKQDDNQNTTPVDKAEIKKLEDGT TKVTWSNLPENDKNGKAIKYLVKEVNAQGEDTTPEGYTKKENGLVVTNTEKPIETTSISGEKVWDDKD NQDGKRPEKVSVNLLANGEKVKTLDVTSETNWKYEFKDLPKYDEGKKIEYTVTEDHVKDYTTDINGTTI TNKYTPGETSATVTKNWDDNNNODGKRPTEIKVELYODGKATGKTAILNESNNWTHTWTGLDEKA KGQQVKYTVEELTKVKGYTTHVDNNDMGNLIVTNKYTPETTSISGEKVWDDKDNQDGKRPEKVSVN LLADGEKVKTLDVTSETNWKYEFKDLPKYDEGKKIEYTVTEDHVKDYTTDINGTTITNKYTPGETSATVT KNWDDNNNODGKRPTEIKVELYODGKATGKTAILNESNNWTHTWTGLDEKAKGOOVKYTVEELTK VKGYTTHVDNNDMGNLIVTNKYTPETTSISGEKVWDDKDNQDGKRPEKVSVNLLANGEKVKTLDVT SETNWKYEFKDLPKYDEGKKIEYTVTEDHVKDYTTDINGTTITNKYTPGETSATVTKNWDDNNNQDG KRPTEIKVELYQDGKATGKTAILNESNNWTHTWTGLDEKAKGQQVKYTVDELTKVNGYTTHVDNND MGNLIVTNKYTPKKPNKPIYPEKPKDKTPPTKPDHSNKVKPTPPDKPSKVDKDDQPKDNKTKPENPLK **ELPKTGMKIITSWITWVFIGILGLYLILRKRFN**

MLRVRCLRGGSRGAEAVHYIGSRLGRTLTGWVQRTFQSTQAATASSRNSCAADDKATEPLPKDCPV SSYNEWDPLEEVIVGRAENACVPPFTIEVKANTYEKYWPFYQKQGGHYFPKDHLKKAVAEIEEMCNIL KTEGVTVRRPDPIDWSLKYKTPDFESTGLYSAMPRDILIVVGNEIIEAPMAWRSRFFEYRAYRSIIKDYFH RGAKWTTAPKPTMADELYNQDYPIHSVEDRHKLAAQGKFVTTEFEPCFDAADFIRAGRDIFAQRSQV TNYLGIEWMRRHLAPDYRVHIISFKDPNPMHIDATFNIIGPGIVLSNPDRPCHQIDLFKKAGWTIITPPT PIIPDDHPLWMSSKWLSMNVLMLDEKRVMVDANEVPIQKMFEKLGITTIKVNIRNANSLGGGFHCW TCDVRRRGTLOSYL

>DP00099

SEMTPREIVSELDKHIIGQDNAKRSVAIALRNRWRRMQLNEELRHEVTPKNILMIGPTGVGKTEIARRL AKLANAPFIKVEATKFTEVGYVGKEVDSIIRDLTDAAVKMVRVQAIEKNRYRAEELAEERILDVLIPPAKN NWGQTEQQQEPSAARQAFRKKLREGQLDDKEIEIDLAAAPMGVEIMAPPGMEEMTSQLQSMFQN LGGQKQKARKLKIKDAMKLLIEEEAAKLVNPEELKQDAIDAVEQHGIVFIDEIDKICKRGESSGPDVSRE GVQRDLLPLVEGCTVSTKHGMVKTDHILFIASGAFQIAKPSDLIPELQGRLPIRVELQALTTSDFERILTE PNASITVQYKALMATEGVNIEFTDSGIKRIAEAAWQVNESTENIGARRLHTVLERLMEEISYDASDLSG ONITIDADYVSKHLDALVADEDLSRFI

MSRTVMERIEYEMHTPDPKADPDKLHFVQIDEAKCIGCDTCSQYCPTAAIFGEMGEPHSIPHIEACIN CGQCLTHCPENAIYEAQSWVPEVEKKLKDGKVKCIAMPAPAVRYALGDAFGMPVGSVTTGKMLAAL QKLGFAHCWDTEFTADVTIWEEGSEFVERLTKKSDMPLPQFTSCCPGWQKYAETYYPELLPHFSTCKS PIGMNGALAKTYGAERMKYDPKQVYTVSIMPCIAKKYEGLRPELKSSGMRDIDATLTTRELAYMIKKA GIDFAKLPDGKRDSLMGESTGGATIFGVTGGVMEAALRFAYEAVTGKKPDSWDFKAVRGLDGIKEAT VNVGGTDVKVAVVHGAKRFKQVCDDVKAGKSPYHFIEYMACPGGCVCGGGQPVMPGVLEAMDR TTTRLYAGLKKRLAMASANK

>DP00111

MKAAVDLKPTLTIIKTEKVDLELFPSPDMECADVPLLTPSSKEMMSQALKATFSGFTKEQQRLGIPKDP RQWTETHVRDWVMWAVNEFSLKGVDFQKFCMSGAALCALGKECFLELAPDFVGDILWEHLEILQKE DVKPYQVNGANPTYPESCYTSDYFISYGIEHAQCVPPSEFSEPSFITESYQTLHPISSEELLSLKYENDYPS VILQDPLQTDTLQTDYFAIKQEVLTPDNMCLGRASRGKLGGQDSFESVESYDSCDRLTQSWSSQSSF NSLQRVPSYDSFDYEDYPAALPNHKPKGTFKDYVRDRADLNKDKPVIPAAALAGYTGSGPIQLWQFL LELLTDKSCQSFISWTGDGWEFKLSDPDEVARRWGKRKNKPKMNYEKLSRGLRYYYDKNIIHKTAGKR YVYRFVCDLQSLLGYTPEELHAMLDVKPDA

MREIVHLQAGQCGNQIGAKFWEVISDEHGIDPTGTYHGDSDLQLERINVYYNEATGGNYVPRAVLV DLEPGTMDSVRSGPFGQIFRPDNFVFGQSGAGNNWAKGHYTEGAELVDAVLDVVRKEAESCDCLQ GFQLTHSLGGGTGSGMGTLLISKMREEFPDRIMNTFSVVPSPKVSDTVVEPYNATLSVHQLVENTDET YCIDNEALYDICFRTLKLTTPTYGDLNHLVSATMSGVTTCLRFPGQLNADLRKLAVNMVPFPRLHFFM PAFAPLTSRGSQQYRGLTVPELTQQMFDAKNMMAACDPRHGRYLTVAAVFRGRMSMKEVDEQML SVQSKNSSYFVEWIPNNVKTAVCDIPPRGLKMAVTFIGNSTAIQELFKRISEQFTAMFRRKAFLHWYTG EGMDEMEFTEAESNMNDLVSEYOOYODATAEOGEFEEEAEEEV

>DP00119

MLLILLSVALLALSSAESSSEDVSQEESLFLISGKPQGRRPQGGNQPQRPPPPPGKPQGPPPQGGNQS QGPPPPPGKPEGRPPQGGNQSQGPPPHPGKPERPPPQGGNQSQGPPPHPGKPESRPPQGGHQS QGPPPTPGKPEGPPPQGGNQSQGTPPPPGKPEGRPPQGGNQSQGPPPHPGKPERPPPQGGNQSH RPPPPPGKPERPPPQGGNQSQGPPPHPGKPEGPPPQEGNKSRSARSPPGKPQGPPQQEGNKPQGP PPPGKPQGPPPPGGNPQQPQAPPAGKPQGPPPPPQGGRPPRPAQGQQPP

>DP00121

MAALAGAIVVTGGVGSYAADEPIDLEKLEEKRDKENVGNLPKFDNEVKDGSENPMAKYPDFDDEAST RFETENNEFEEKKVVSDNFFDQSEHPFVENKEETPETDSEEEVTIKANLIFANGSTQTAEFKGTFEK ATSEAYAYADTLKKDNGEYTVDVADKGYTLNIKFAGKEKTPEEPKEEVTIKANLIYADGKTQTAEFKGTF EEATAEAYRYADALKKDNGEYTVDVADKGYTLNIKFAGKEKTPEEPKEEVTIKANLIYADGKTQTAEFK GTFEEATAEAYRYADLLAKENGKYTVDVADKGYTLNIKFAGKEKTPEEPKEEVTIKANLIYADGKTQTAE FKGTFAEATAEAYRYADLLAKENGKYTADLEDGGYTINIRFAGKKVDEKPEEKEQVTIKENIYFEDGTVQ TATFKGTFAEATAEAYRYADLLSKEHGKYTADLEDGGYTINIRFAGKEEPEETPEKPEVQDGYASYEEAE AAAKEALKNDDVNKSYTIRQGADGRYYYVLSPVEAEEEKPEAQNGYATYEEAEAAAKKALENDPINKS YSIRQGADGRYYYVLSPVEAETPEKPVEPSEPSTPDVPSNPSNPSTPDVPSNPSTPDVPSNPSTPEVPSNPS TPGNEEKPGNEQKPGNEQKPGNEQKPGNEQKPGNEQKPGNEQKPGNEQKPGNEQKPGNEQKPGNEQKPGNEQKPGNEQKPGNEKKEKAAL PKAGSEAEILTLAAASLSSVAGAFISLKKR

>DP00123

MNRGVPFRHLLLVLQLALLPAATQGKKVVLGKKGDTVELTCTASQKKSIQFHWKNSNQIKILGNQGS FLTKGPSKLNDRADSRRSLWDQGNFPLIIKNLKIEDSDTYICEVEDQKEEVQLLVFGLTANSDTHLLQG QSLTLTLESPPGSSPSVQCRSPRGKNIQGGKTLSVSQLELQDSGTWTCTVLQNQKKVEFKIDIVVLAFQ KASSIVYKKEGEQVEFSFPLAFTVEKLTGSGELWWQAERASSSKSWITFDLKNKEVSVKRVTQDPKLQ MGKKLPLHLTLPQALPQYAGSGNLTLALEAKTGKLHQEVNLVVMRATQLQKNLTCEVWGPTSPKLM LSLKLENKEAKVSKREKAVWVLNPEAGMWQCLLSDSGQVLLESNIKVLPTWSTPVQPMALIVLGGVA GLLLFIGLGIFFCVRCRHRRRQAERMSQIKRLLSEKKTCQCPHRFQKTCSP

>DP00124

MQPAALLGLLGATVVAAVSSMPVDIRNHNEEVVTHCIIEVLSNALLKSSAPPITPECRQVLKKNGKELK DEEKSENENTRFEVRLLRDPADTSEAPGLSSREDSGEGDAQVPTVADTESGGHSRERAGEPPGSQVA KEAKTRYSKSEGQNREEEMVKYQKRERGEVGSEERLSEGPGKAQMAFLNQRNQTPAKKEELVSRYDT QSARGLEKSHSRERSSQESGEETKSQENWPQELQRHPEGQEAPGESEEDASPEVDKRRSRPRHHHG RSRPDRSSQEGNPPLEEESHVGTGNSDEEKARHPAHFRALEEGAEYGEEVRRHSAAQAPGDLQGAR FGGRGRGEHQALRRPSEESLEQENKRHGLSPDLNMAQGYSEESEEERGPARGPSYRARGGEAAAYST LGQTDEKRFLGETHHRVQESQRDKARRRLPGELRNYLDYGEEKGEEAARGKWQPQGDPRDADENR EEARLRGKQYAPHHITEKRLGELLNPFYDPSQWKSSRFERKDPMDDSFLEGEEENGLTLNEKNFFPEY NYDWWEKKPFEEDVNWGYEKRNPVPKLDLKRQYDRVAELDQLLHYRKKSAEFPDFYDSEEQVSPQH TAENEEEKAGQGVLTEEEEKELENLAAMDLELQKIAEKFSGTRR

>DP00126

MAEPROEFEVMEDHAGTYGLGDRKDOGGYTMHQDQEGDTDAGLKESPLQTPTEDGSEEPGSETSD

AKSTPTAEDVTAPLVDEGAPGKQAAAQPHTEIPEGTTAEEAGIGDTPSLEDEAAGHVTQARMVSKSK DGTGSDDKKAKGADGKTKIATPRGAAPPGQKGQANATRIPAKTPPAPKTPPSSGEPPKSGDRSGYSS PGSPGTPGSRSRTPSLPTPPTREPKKVAVVRTPPKSPSSAKSRLQTAPVPMPDLKNVKSKIGSTENLKH QPGGGKVQIINKKLDLSNVQSKCGSKDNIKHVPGGGSVQIVYKPVDLSKVTSKCGSLGNIHHKPGGG QVEVKSEKLDFKDRVQSKIGSLDNITHVPGGGNKKIETHKLTFRENAKAKTDHGAEIVYKSPVVSGDTS PRHLSNVSSTGSIDMVDSPQLATLADEVSASLAKQG

>DP00127

MTNCKYKLRKLSIGLVSVGTMFMAAPVMGEDASQPTASVTTESPAIQTEEDQGSQAEALEEPTPAPQ TSPSTVSAVPAEAAAMADEKGIAEAPAHEPAPKASVQAEAASPAGKAEATTNTGQPTNTEQARSRSK RAAEIAPOTIEVEKLEVDKENSSLTVKDGEKDKOLIKHRDGNORDIFDISRDVKVNODGTMDVTLTVK PKQIDEGAEVIVLLDTSQKMTETDFNTAKENIKKLVTTLTGTTDKEGKNVSHYNNRNSVRLIDFYRKVG ESTDLSGWDAKKIDEKLNEVWKKAKDDYNGWGVDLQGAIHKAREIFNLDKEKRSGKRQHIVLFSQGE STFSYDIKDKSKMDKVAVEEPVTYSNPLFPWPFYFDTTTRTHNVVNDAKKLIDFLNKLGISQFNGAVD NVATVGNTLLGLGSFFGLKNPLDYISLADLETSKLNSEKFDYSRRVGEGYNFRSYFDREVDKVGFKKILV EKIKGNLKKFOPKOTDTWLSSLGLNSIKEKIODWMIDKALDNLFYRROYOFYNHNLSAOAEARMARE EGIKFYAVDVTEPERIAKEINSOKYSEAYTNHLKKKAEEARELAKKRNEKFDKYLKEMSESOKFFKDVED PEKFKDILTELKVTETFEEKVSVNNSEQRKSNKEVEYKKASSNSSFLSFIFSSSTNESITWTLSKDKLQKAL QSGETLTLEYKLKIHKDKFKLAPQTRSKRSLDTSENKKSVTEKVITSDVKYKINDKEVKGKELDDVSLTYS KETVRKPQVEPNVPDTPQEKPLTPLAPSEPSQPSIPETPLIPSEPSVPETSTPEGPTEGENNLGGQSEEITI TEDSQSGMSGQNPGSGNETVVEDTQTSQEDIVLGGPGQVIDFTEDSQPGMSGNNSHTITEDSKPSQ EDEVIIGGOGOVIDFTEDTOSGMSGDNSHTDGTVLEEDSKPSQEDEVIIGGQGOVIDFTEDTQTGMS GAGOVESPTITEETHKPEIIMGGOSDPIDMVEDTLPGMSGSNEATVVEEDTRPKLOFHFDNEEPVPAT VPTVSQTPIAQVESKVPHAKAESALPQTGDTNKLETFFTITALTVIGAAGLLGKKRRNNQT

>DP00128

MGLKKFFKIKPPEEATPEONKDTLMELGISVKNPSKKRKEKFAAYGKFANDKAEDKVYAPPGYEOYAR PQDELEDLNASPLDANANEATAGSNRGSSGTQDLGNGAESNSMQDPYAIENDDYRYDDDPYARF QANKSNGRGSVNAAPYGDYGGGYNGTSLNSYNNDGPYSNQNTSNSWVNANGRNSLNHSNSTL NVGPSRQTRQPPVSTSTNSLSLDQRSPLANPMQEKRNPYADMNSYGGAYDSNTNRSSGTRQGSSK NANPYASMANDSYSNGNLNRSANPYSSRSVRQPQSQQAPMTYTPSFIASDEAARNSEVDLNEEPR TGEFDFEEVYADKSAENRAALDEPDLNAVMTNEDSIDLNASEVDHSSROOOOOWFMDEOOOO QQHFNATNNQYGDQRGYKTFEEIQKEEEARQQQEEDEAVDEIKQEIKFTKQSSVASTRNTLKMAQD AERAGMNTLGMLGHOSEOLNNVEGNLDLMKVONKVADEKVAELKKLNRSILAVHVSNPFNSKRRR REREEQLKNRKIEEKLMREQTSQQLSQSTQRIEGAMNANNNISEVRERYQRKNVLEKAKRYQFENDE EDDEMELEIDRNLDQIQQVSNRLKKMALTTGKELDSQQKRLNNIEESTDDLDINLHMNTNRLAGI

>DP00129

MDDLFPLIFPSEPAQASGPYVEIIEQPKQRGMRFRYKCEGRSAGSIPGERSTDTTKTHPTIKINGYTGPG
TVRISLVTKDPPHRPHPHELVGKDCRDGYYEADLCPDRSIHSFQNLGIQCVKKRDLEQAISQRIQTNN
NPFHVPIEEQRGDYDLNAVRLCFQVTVRDPAGRPLLLTPVLSHPIFDNRAPNTAELKICRVNRNSGSC
LGGDEIFLLCDKVQKEDIEVYFTGPGWEARGSFSQADVHRQVAIVFRTPPYADPSLQAPVRVSMQLR
RPSDRELSEPMEFQYLPDTDDRHRIEEKRKRTYETFKSIMKKSPFNGPTEPRPPTRRIAVPTRNSTSVPKP
APQPYTFPASLSTINFDEFSPMLLPSGQISNQALALAPSSAPVLAQTMVPSSAMVPLAQPPAPAPVLT
PGPPQSLSAPVPKSTQAGEGTLSEALLHLQFDADEDLGALLGNSTDPGVFTDLASVDNSEFQQLLNQ
GVSMSHSTAEPMLMEYPEAITRLVTGSQRPPDPAPTPLGTSGLPNGLSGDEDFSSIADMDFSALLSQI

>DP00131

MSYRKELEKYRDLDEDKILGALTEEELRKLENELEELDPDNALLPAGLRQRDQTQKPPTGPFKREELMA HLEQQAKDIKDREDLVPFTGEKRGKAWIPKQKPMDPVLESVTLEPELEEALANASDAELCDIAAILGM HTLMSNQQYYEALGSSTIVNKEGLNSVIKPTKYKPVPDEEPNSTDVEETLKRIQNNDPDLEEVNLNNI MNIPVPTLKALAEALKTNTYVKKFSIVGTRSNDPVAFALAEMLKVNNTLKSLNVESNFISGSGILALVEA LQSNTSLIELRIDNQSQPLGNNVEMEIANMLEKNTTLLKFGYHFTQQGPRLRASNAMMNNNDLVRK

RRLAELNGPIFPKCRTG

MNAADRMGARVALLLLLVLGSPQSGVHGEEGLDFPEYDGVDRVINVNAKNYKNVFKKYEVLALLYH EPPEDDKASQRQFEMEELILELAAQVLEDKGVGFGLVDSEKDAAVAKKLGLTEEDSIYVFKEDEVIEYD GEFSADTLVEFLLDVLEDPVELIEGERELQAFENIEDEIKLIGYFKNKDSEHYKAFKEAAEEFHPYIPFFATF DSKVAKKLTLKLNEIDFYEAFMEEPVTIPDKPNSEEEIVNFVEEHRRSTLRKLKPESMYETWEDDMDGIH IVAFAEEADPDGYEFLEILKSVAQDNTDNPDLSIIWIDPDDFPLLVPYWEKTFDIDLSAPQIGVVNVTDA DSVWMEMDDEEDLPSAEELEDWLEDVLEGEINTEDDDDDDDDD

>DP00134

>DP00132

MEELVVEVRGSNGAFYKAFVKDVHEDSITVAFENNWQPDRQIPFHDVRFPPPVGYNKDINESDEVEV YSRANEKEPCCWWLAKVRMIKGEFYVIEYAACDATYNEIVTIERLRSVNPNKPATKDTFHKIKLDVPED LRQMCAKEAAHKDFKKAVGAFSVTYDPENYQLVILSINEVTSKRAHMLIDMHFRSLRTKLSLIMRNEE ASKQLESSRQLASRFHEQFIVREDLMGLAIGTHGANIQQARKVPGVTAIDLDEDTCTFHIYGEDQDAV KKARSFLEFAEDVIQVPRNLVGKVIGKNGKLIQEIVDKSGVVRVRIEAENEKNVPQEEEIMPPNSLPSNN SRVGPNAPEEKKHLDIKENSTHFSQPNSTKVQRVLVASSVVAGESQKPELKAWQGMVPFVFVGTKD SIANATVLLDYHLNYLKEVDQLRLERLQIDEQLRQIGASSRPPPNRTDKEKSYVTDDGQGMGRGSRPY RNRGHGRRGPGYTSGTNSEASNASETESDHRDELSDWSLAPTEEERESFLRRGDGRRRGGGGRQG GRGRGGGFKGNDDHSRTDNRPRNPREAKGRTTDGSLQIRVDCNNERSVHTKTLQNTSSEGSRLRTG KDRNOKKEKPDSVDGOOPLVNGV

>DP00135

MNNAANTGTTNESNVSDAPRIEPLPSLNDDDIEKILQPNDIFTTDRTDASTTSSTAIEDIINPSLDPQSA ASPVPSSSFFHDSRKPSTSTHLVRRGTPLGIYQTNLYGHNSRENTNPNSTLLSSKLLAHPPVPYGQNP DLLQHAVYRAQPSSGTTNAQPRQTTRRYQSHKSRPAFVNKLWSMLNDDSNTKLIQWAEDGKSFIVT NREEFVHQILPKYFKHSNFASFVRQLNMYGWHKVQDVKSGSIQSSSDDKWQFENENFIRGREDLLEK

IIRQKGSSNNHNSPSGNGNPANGSNIPLDNAAGSNNSNNNISSSNSFFNNGHLLQGKTLRLMNEA NLGDKNDVTAILGELEQIKYNQIAISKDLLRINKDNELLWQENMMARERHRTQQQALEKMFRFLTSIV PHLDPKMIMDGLGDPKVNNEKLNSANNIGLNRDNTGTIDELKSNDSFINDDRNSFTNATTNARNN MSPNNDDNSIDTASTNTTNRKKNIDENIKNNNDIINDIIFNTNLANNLSNYNSNNNAGSPIRPYKQR YLLKNRANSSTSSENPSLTPFDIESNNDRKISEIPFDDEEEEETDFRPFTSRDPNNQTSENTFDPNRFTM LSDDDLKKDSHTNDNKHNESDLFWDNVHRNIDEQDARLQNLENMVHILSPGYPNKSFNNKTSSTN TNSNMESAVNVNSPGFNLQDYLTGESNSPNSVHSVPSNGSGSTPLPMPNDNDTEHASTSVNQGE NGSGLTPFLTVDDHTLNDNNTSEGSTRVSPDIKFSATENTKVSDNLPSFNDHSYSTQADTAPENAKK RFVEEIPEPAIVEIODPTEYNDHRLPKRAK

>DP00136

MSETAPAAPAAPAAPAEKTPIKKKARKAAGGAKRKASGPPVSELITKAVAASKERSGVSLAALKKALAAA GYDVEKNNSRIKLGLKSLVSKGTLVQTKGTGASGSFKLNKKAASGEAKPKAKKAGAAKAKKPAGAAKK PKKATGTATPKKSTKKTPKKAKKPAAGAKKAKSPKKAKATKAKKAPKSPAKARAVKPKAAKPKTSKPKA AKPKKTAAKK

MAVVKCKPTSPGRRHVVKVVNPELHKGKPFAPLLEKNSKSGGRNNNGRITTRHIGGGHKQAYRIVDF KRNKDGIPAVVERLEYDPNRSANIALVLYKDGERRYILAPKGLKAGDQIQSGVDAAIKPGNTLPMRNIP VGSTVHNVEMKPGKGGQLARSAGTYVQIVARDGAYVTLRLRSGEMRKVEADCRATLGEVGNAEHM LRVLGKAGAARWRGVRPTVRGTAMNPVDHPHGGGEGRNFGKHPVTPWGVQTKGKKTRSNKRTDK FIVRRS

>DP00140

MAHKKAGGSTRNGRDSEAKRLGVKRFGGESVLAGSIIVRORGTKFHAGANVGCGRDHTLFAKADGK

VKFEVKGPKNRKFISIEA

>DP00141

MENYFOAEAYNLDKVLDEFEONEDETVSSTLLDTKWNKILDPPSHRLSFNPTLASVNESAVSNESOP QLKVFSLAHSAPLTTEEEDHCANGQDCNLNPEIATMWIDENAVAEDQLIKRNYSWDDQCSAVEVGE KKCGNLACLPDEKNVLVVAVMHNCDKRTLQNDLQDCNNYNSQSLMDAFSCSLDNENRQTDQFSF SINESTEKDMNSEKQMDPLNRPKTEGRSVNHLCPTSSDSLASVCSPSQLKDDGSIGRDPSMSAITSLT VDSVISSOGTDGCPAVKKOENYIPDEDLTGKISSPRTDLGSPNSFSHMSEGILMKKEPAEESTTEESLRS GLPLLLKPDMPNGSGRNNDCERCSDCLVPNEVRADENEGYEHEETLGTTEFLNMTEHFSESQDMTN WKLTKLNEMNDSQVNEEKEKFLQISQPEDTNGDSGGQCVGLADAGLDLKGTCISESEECDFSTVIDT PAANYLSNGCDSYGMODPGVSFVPKTLPSKEDSVTEEKEIEESKSECYSNIYEORGNEATEGSGLLLNS TGDLMKKNYLHNFCSQVPSVLGQSSPKVVASLPSISVPFGGARPKQPSNLKLQIPKPLSDHLQNDFPA NSGNNTKNKNDILGKAKLGENSATNVCSPSLGNISNVDTNGEHLESYEAEISTRPCLALAPDSPDNDL RAGQFGISARKPFTTLGEVAPVWVPDSQAPNCMKCEARFTFTKRRHHCRACGKVFCASCCSLKCKLL YMDRKEARVCVICHSVLMNAOAWENMMSASSOSPNPNNPAEYCSTIPPLOOAOASGALSSPPPTV MVPVGVLKHPGAEVAQPREQRRVWFADGILPNGEVADAAKLTMNGTSSAGTLAVSHDPVKPVTTS PLPAETDICLFSGSITQVGSPVGSAMNLIPEDGLPPILISTGVKGDYAVEEKPSQISVMQQLEDGGPDPL VFVLNANLLSMVKIVNYVNRKCWCFTTKGMHAVGQSEIVILLQCLPDEKCLPKDIFNHFVQLYRDALA GNVVSNLGHSFFSQSFLGSKEHGGFLYVTSTYQSLQDLVLPTPPYLFGILIQKWETPWAKVFPIRLMLR LGAEYRLYPCPLFSVRFRKPLFGETGHTIMNLLADFRNYOYTLPVVOGLVVDMEVRKTSIKIPSNRYNE MMKAMNKSNEHVLAGGACFNEKADSHLVCVONDDGNYOTOAISIHNOPRKVTGASFFVFSGALK SSSGYLAKSSIVEDGVMVQITAENMDSLRQALREMKDFTITCGKADAEEPQEHIHIQWVDDDKNVSK GVVSPIDGKSMETITNVKIFHGSEYKANGKVIRWTEVFFLENDDQHNCLSDPADHSRLTEHVAKAFCL ALCPHLKLLKEDGMTKLGLRVTLDSDQVGYQAGSNGQPLPSQYMNDLDSALVPVIHGGACQLSEGP **VVMELIFYILENI**

MLCEDQHMSVENTPQKGSGSLNSSASSISIDVKPTMQSWAQEVRAEFGHSDEASSSLNSSAASCGS LAKKETADGNLESKDGEGREMAFEFLDGVNEVKFERLVKEEKLKTPYKRRHSFTPPSNENSRSNSPNSS NSSANGDAAAPKGGNNPHSRNSKKSGNFRAHKEEKRVRHNSYTSSTSSSSSYTEADPAILSRRQKQI DYGKNTAAYERYVEMVPKDERTRDHPRTPNKYGKYSRRAFDGLVKIWRKSLHIYDPPTQARDTAKDS NSDSDS

>DP00146

MARYFRRRKFCRFTAEGVQEIDYKDIATLKNYITESGKIVPSRITGTRAKYQRQLARAIKRARYLSLLPYT DRH

MQRGNFRNQRKMVKCFNCGKEGHTARNCRAPRKKGCWKCGKEGHQMKDCTERQANFLGKIWPS YKGRPGN

MTEYKLVVVGAGGVGKSALTIQLIQNHFVDEYDPTIEDSYRKQVVIDGETCLLDILDTAGQEEYSAMR DQYMRTGEGFLCVFAINNTKSFEDIHQYREQIKRVKDSDDVPMVLVGNKCDLAARTVESRQAQDLA RSYGIPYIETSAKTRQGVEDAFYTLVREIRQHKLRKLNPPDESGPGCMSCKCVL

>DP00156

MAVTITLKTLQQQTFKIRMEPDETVKVLKEKIEAEKGRDAFPVAGQKLIYAGKILSDDVPIRDYRIDEKNF VVVMVTKTKAGQGTSAPPEASPTAAPESSTSFPPAPTSGMSHPPPAAREDKSPSEESAPTTSPESVSG SVPSSGSSGREEDAASTLVTGSEYETMLTEIMSMGYERERVVAALRASYNNPHRAVEYLLTGIPGSPEP EHGSVQESQVSEQPATEAAGENPLEFLRDQPQFQNMRQVIQQNPALLPALLQQLGQENPQLLQQI SRHQEQFIQMLNEPPGELADISDVEGEVGAIGEEAPQMNYIQVTPQEKEAIERLKALGFPESLVIQAYF ACEKNENLAANFLLSQNFDD

MVTSVRTQPPVIMPGMQTEIKTQATNLAANLSAVRAKCHSDAVREIKGPQLEDFPALIKQASLDALFK CGKDAEALKEVFTNSNNVAGKKAIMEFAGLFRSALNATSDSPEAKTLLMKVGAEYAAQIIKDGLKEKS

AFGPWLPETKKAEAKLENLEKQLLDIIKNNTGGELSKLSTNLVMQEVMPYIASCIEHNFGCTLDPLTRS NLTHLVDKAAAKAVEALDMCPQKLTQEQGTSVGREARHLEMQTLIPLLLRNVFAQIPADKLPDPKIPE PAAGPVPDGGKKAEPTGINININIDSSNHSVDNSKHINNAEPVDNGQRHIDNSNHDNSRKTIDNSRT FIDNSQRNGESHHSTNSSNVSHSHSRVDSTTHQTETAHSASTGAIDHGIAGKIDVTAHATAEAVTNA SSESKDGKVVTSEKGTTGETTSFDEVDGVTSKSIIGKPVQATVHGVDDNKQQSQTAEIVNVKPLASQL AGVENVKTDTLQSDTTVITGNKAGTTDNDNSQTDKTGPFSGLKFKQNSFLSTVPSVTNMHSMHFDA RETFLGVIRKALEPDTSTPFPVRRAFDGLRAEILPNDTIKSAALKAQCSDIDKHPELKAKMETLKEVITHH PQKEKLAEIALQFAREAGLTRLKGETDYVLSNVLDGLIGDGSWRAGPAYESYLNKPGVDRVITTVDGL HMO

>DP00158

MGARCRSFSALLLLLQVSSWLCQELEPESCSPGFSSEVYTFPVPERHLERGHVLGRVRFEGCTGRPRTA FFSEDSRFKVATDGTITVKRHLKLHKLETSFLVRARDSSHRELSTKVTLKSMGHHHHRHHHRDPASES NPELLMFPSVYPGLRRQKRDWVIPPISCPENEKGEFPKNLVQIKSNRDKETKVFYSITGQGADKPPVGV FIIERETGWLKVTOPLDREAIAKYILYSHAVSSNGEAVEDPMEIVITVTDONDNRPEFTOEVFEGSVAEG AVPGTSVMKVSATDADDDVNTYNAAIAYTIVSQDPELPHKNMFTVNRDTGVISVLTSGLDRESYPTY TLVVQAADLQGEGLSTTAKAVITVKDINDNAPVFNPSTYQGQVPENEVNARIATLKVTDDDAPNTPA WKAVYTVVNDPDQQFVVVTDPTTNDGILKTAKGLDFEAKQQYILHVRVENEEPFEGSLVPSTATVTV DVVDVNEAPIFMPAERRVEVPEDFGVGQEITSYTAREPDTFMDQKITYRIWRDTANWLEINPETGAIF TRAEMDREDAEHVKNSTYVALIIATDDGSPIATGTGTLLLVLLDVNDNAPIPEPRNMQFCQRNPQPHI ITILDPDLPPNTSPFTAELTHGASVNWTIEYNDAAQESLILOPRKDLEIGEYKIHLKLADNONKDOVTTL DVHVCDCEGTVNNCMKAGIVAAGLQVPAILGILGGILALLILILLLLFLRRRTVVKEPLLPPDDDTRDN VYYYDEEGGGEEDQDFDLSQLHRGLDARPEVTRNDVAPTLMSVPQYRPRPANPDEIGNFIDENLKAA DSDPTAPPYDSLLVFDYEGSGSEAASLSSLNSSESDQDQDYDYLNEWGNRFKKLADMYGGGED

MATLLRSLALFKRNKDKPPITSGSGGAIRGIKHIIIVPIPGDSSITTRSRLLDRLVRLIGNPDVSGPKLTGALI GILSLFVESPGQLIQRITDDPDVSIRLLEVVQSDQSQSGLTFASRGTNMEDEADQYFSHDDPISSDQSR FGWFENKEISDIEVQDPEGFNMILGTILAQIWVLVAKAVTAPDTAADSELRRWIKYTQQRRVVGEFRL ERKWLDVVRNRIAEDLSLRRFMVALILDIKRTPGNKPRIAEMICNIDTYIVEAGLASFILTIKFGIETMYPA LGLHEFDGELSTLESLMNLYQQMGETAPYMVILENSIQNKFSAGSYPLLWSYAMGVGVELENSMGGL NFGRSYFDPAYFRLGQEMVRRSAGKVSSTLASELGITAEDARLVSEIAMHTTEDKISRAVGPRQAQVS FLHGDQSENELPRLGGKEDRRVKQSRGEARESYRETGPSRASDARAAHLPTGTPLDIDTASESSQDPQ DSRRSADALLRLQAMAGISEEQGSDTDTPIVYNDRNLL

>DP00163

MDYKEEQKQELEVLESIYPDELRIINDEYPKIKFEVAIKLELDTGDSTSVLTKEHTIIAEFKLPENYPDEPCLI SLEAQEVALNDNEEDNEEDEDEVEYDDHGNKVLKKFENLPDLISFKGYLPELTVQLESQIETDMLLGM QMCFALISSIKERCEQWYSEQLNKLEKQYELEAQEREKKEQAKFHGTKVTRESYLEWRSKFRQELKLDE RDQVRRMKAHHGKLTGKQMFEQGVVGTGDEYMEEDDASVDDVAKGLAKTEIAN

>DP00165

MSDNDELQQIAHLRREYTKGGLRRRDLPADPLTLFERWLSQACEAKLADPTAMVVATVDEHGQPYQ RIVLLKHYDEKGMVFYTNLGSRKAHQIENNPRVSLLFPWHTLERQVMVIGKAERLSTLEVMKYFHSRP RDSQIGAWVSKQSSRISARGILESKFLELKQKFQQGEVPLPSFWGGFRVSLEQIEFWQGGEHRLHDRF

LYQRENDAWKIDRLA

MASYQKHYDDQGRKVDEYGNVEKQTDEYGNPVHAASVTYVATRTAAGGYSDDINKQHDTTNAYG VDTGRQHSSGGYDGDTNKHHGTTGGYNDDTNRHHGTTGVYGIDTDRQQHGTTGGYAGDTGRQ HGNIGGPYYGTNTADTGTGPRSGTTGGTGYGGTGGTDYGTTGGTGYGSGTGYGVNTGGAHTEAGY RKEHRQHDQSHGDQNEKKGIMDKIKEKLPGGHSD

MEHIQGAWKTISNGFGFKDAVFDGSSCISPTIVQQFGYQRRASDDGKLTDPSKTSNTIRVFLPNKQRT VVNVRNGMSLHDCLMKALKVRGLQPECCAVFRLLHEHKGKKARLDWNTDAASLIGEELQVDFLDH VPLTTHNFARKTFLKLAFCDICQKFLLNGFRCQTCGYKFHEHCSTKVPTMCVDWSNIRQLLLFPNSTIG DSGVPALPSLTMRRMRESVSRMPVSSQHRYSTPHAFTFNTSSPSSEGSLSQRQRSTSTPNVHMVSTT LPVDSRMIEDAIRSHSESASPSALSSSPNNLSPTGWSQPKTPVPAQRERAPVSGTQEKNKIRPRGQRD SSYYWEIEASEVMLSTRIGSGSFGTVYKGKWHGDVAVKILKVVDPTPEQFQAFRNEVAVLRKTRHVNI LLFMGYMTKDNLAIVTQWCEGSSLYKHLHVQETKFQMFQLIDIARQTAQGMDYLHAKNIIHRDMKS NNIFLHEGLTVKIGDFGLATVKSRWSGSQQVEQPTGSVLWMAPEVIRMQDNNPFSFQSDVYSYGIVL YELMTGELPYSHINNRDQIIFMVGRGYASPDLSKLYKNCPKAMKRLVADCVKKVKEERPLFPQILSSIEL LOHSLPKINRSASEPSLHRAAHTEDINACTLTTSPRLPV

>DP00173

MEVTGDAGVPESGEIRTLKPCLLRRNYSREQHGVAASCLEDLRSKACDILAIDKSLTPVTLVLAEDGTIV DDDDYFLCLPSNTKFVALASNEKWAYNNSDGGTAWISQESFDVDETDSGAGLKWKNVARQLKEDL SSIILLSEEDLQMLVDAPCSDLAQELRQSCATVQRLQHTLQQVLDQREEVRQSKQLLQLYLQALEKEG SLLSKQEESKAAFGEEVDAVDTGISRETSSDVALASHILTALREKQAPELSLSSQDLELVTKEDPKALAV ALNWDIKKTETVQEACERELALRLQQTQSLHSLRSISASKASPPGDLQNPKRARQDP

>DP00176

MKTETKVIKGRQGIARNRHTPLCLGLLLALSPLAAAVADARKDGETELPDMVISGESTSATQPPGVTTL GKVPLKPRELPQSASVIDHERLEQQNLFSLDEAMQQATGVTVQPFQLLTTAYYVRGFKVDSFELDGV PALLGNTASSPQDMAIYERVEILRGSNGLLHGTGNPAATVNLVRKRPQREFAASTTLSAGRWDRYRA EVDVGGPLSASGNVRGRAVAAYEDRDYFYDVADQGTRLLYGVTEFDLSPDTLLTVGAQYQHIDSITN MAGVPMAKDGSNLGLSRDTYLDVDWDRFKWDTYRAFGSLEQQLGGGWKGKVSAEYQEADSRLRY AGSFGAIDPQTGDGGQLMGAAYKFKSIQRSLDANLNGPVRLFGLTHELLGGVTYAQGETRQDTARFL NLPNTPVNVYRWDPHGVPRPQIGQYTSPGTTTTTQKGLYALGRIKLAEPLTLVVGGRESWWDQDTP ATRFKPGRQFTPYGGLIWDFARDWSWYVSYAEVYQPQADRQTWNSEPLSPVEGKTYETGIKGELAD GRLNLSLAAFRIDLENNPQEDPDHPGPPNNPFYISGGKVRSQGFELEGTGYLTPYWSLSAGYTYTSTEY LKDSQNDSGTRYSTFTPRHLLRLWSNYDLPWQDRRWSVGGGLQAQSDYSVDYRGVSMRQGGYAL VNMRLGYKIDEHWTAAVNVNNLFDRTYYOSLSNPNWNNRYGEPRSFNVSLRGA

>DP00178

MRECISIHVGQAGVQIGNACWELYCLEHGIQPDGQMPSDKTIGGGDDSFNTFFSETGAGKHVPRAV FVDLEPTVIDEVRTGTYRQLFHPEQLITGKEDAANNYARGHYTIGKEIIDLVLDRIRKLADQCTGLQGFL VFHSFGGGTGSGFTSLLMERLSVDYGKKSKLEFSIYPAPQVSTAVVEPYNSILTTHTTLEHSDCAFMVD NEAIYDICRRNLDIERPTYTNLNRLIGQIVSSITASLRFDGALNVDLTEFQTNLVPYPRIHFPLATYAPVIS AEKAYHEQLSVAEITNACFEPANQMVKCDPRHGKYMACCLLYRGDVVPKDVNAAIATIKTKRTIQFV DWCPTGFKVGINYQPPTVVPGGDLAKVQRAVCMLSNTTAIAEAWARLDHKFDLMYAKRAFVHWY VGEGMEEGEFSEAREDMAALEKDYEEVGVDSVEGEGEEEGEE

MRKETLIGLAFITANVIAWSLRWRMQKSTTIAAIAGCSGAATFGGLAGGIVGCIAAGILAILQGFEVNW HNGGGGDRSNPVKRSSDSFSIVNHNGEKVDSYAHLVPGKVGKVIIDNIELSAIRYANNHTSLGYHFTS DGSGPAARGEATTIWGVGADEAIDKGTPSKNDLQNMSADLAKNGFKGHQGVACSTVKDGNKDVY MIKFSLAGGSNDPGGSPCSD

MPAPHGLSPLSKAFLMRRAFQRRILPHSLAMALSLPLAGYVQAQEVEFDIPPQALGSALQEFGRQADI QVLYRPEEVRNKRSSAIKGKLEPNQAITELLRGTGASVDFQGNAITISVAEAADSSVDLGATMITSNQL GTITEDSGSYTPGTIATATRLVLTPRETPQSITVVTRQNMDDFGLNNIDDVMRHTPGITVSAYDTDRN NYYARGFSINNFQYDGIPSTARNVGYSAGNTLSDMAIYDRVEVLKGATGLLTGAGSLGATINLIRKKPT HEFKGHVELGAGSWDNYRSELDVSGPLTESGNVRGRAVAAYQDKHSFMDHYERKTSVYYGILEFDL NPDTMLTVGADYQDNDPKGSGWSGSFPLFDSQGNRNDVSRSFNNGAKWSSWEQYTRTVFANLE HNFANGWVGKVQLDHKINGYHAPLGAIMGDWPAPDNSAKIVAQKYTGETKSNSLDIYLTGPFQFLG REHELVVGTSASFSHWEGKSYWNLRNYDNTTDDFINWDGDIGKPDWGTPSQYIDDKTRQLGSYMT ARFNVTDDLNLFLGGRVVDYRVTGLNPTIRESGRFIPYVGAVYDLNDTYSVYASYTDIFMPQDSWYR DSSNKLLEPDEGQNYEIGIKGEYLDGRLNTSLAYFEIHEENRAEEDALYNSKPTNPAITYAYKGIKAKTK GYEAEISGELAPGWQVQAGYTHKIIRDDSGKKVSTWEPQDQLSLYTSYKFKGALDKLTVGGGARWQ GKSWQMVYNNPRSRWEKFSQEDYWLVDLMARYQITDKLSASVNVNNVFDKTYYTNIGFYTSASYG DPRNLMFSTRWD

MASRQNNKQELDERARQGETVVPGGTGGKSLEAQQHLAEGRSKGGQTRKEQLGTEGYQEMGRKG GLSTVDKSGEERAQEEGIGIDESKFRTGNNKNQNQNEDQD

>DP00188

EGGKRLTYDEIQSKTYLEVKGTGTANQCPTVEGGVDSFAFKPGKYTAKKFCLEPTKFAVKAEGISKNSG PDFQNTKLMTRLTYTLDEIEGPFEVSSDGTVKFEEKDGIDYAAVTVQLPGGERVPFLFTIKQLVASGKPE SFSGDFLVPSYRGSSFLDPKGRGGSTGYDNAVALPAGGRGDEEELQKENNKNVASSKGTITLSVTSSK PETGEVIGVFQSLQPSDTDLGAKVPKDVKIEGVWYAQLEQ

>DP00190

TTQVPPSALLPLNPEQLARLQAATTDLTPTQLAWVSGYFWGVLNQQPAALAATPAPAAEMPGITIIS ASQTGNARRVAEALRDDLLAAKLNVKLVNAGDYKFKQIASEKLLIVVTSTQGEGEPPEEAVALHKFLFS KKAPKLENTAFAVFSLGDTSYEFFCQSGKDFDSKLAELGGERLLDRVDADVEYQAAASEWRARVVDA LKSRAPVAAPSQSVATGAVNEIHTSPYSKDAPLVASLSVNQKITGRNSEKDVRHIEIDLGDSGLRYQPG DALGVWYQNDPALVKELVELLWLKGDEPVTVEGKTLPLNEALQWHFELTVNTANIVENYATLTRSET

MEHKEVVLLLLLFLKSGQGEPLDDYVNTQGASLFSVTKKQLGAGSIEECAAKCEEDEEFTCRAFQYHSK EQQCVIMAENRKSSIIIRMRDVVLFEKKVYLSECKTGNGKNYRGTMSKTKNGITCQKWSSTSPHRPRF SPATHPSEGLEENYCRNPDNDPQGPWCYTTDPEKRYDYCDILECEEECMHCSGENYDGKISKTMSGL ECQAWDSQSPHAHGYIPSKFPNKNLKKNYCRNPDRELRPWCFTTDPNKRWELCDIPRCTTPPPSSG PTYQCLKGTGENYRGNVAVTVSGHTCQHWSAQTPHTHNRTPENFPCKNLDENYCRNPDGKRAPW CHTTNSQVRWEYCKIPSCDSSPVSTEQLAPTAPPELTPVVQDCYHGDGQSYRGTSSTTTTGKKCQS WSSMTPHRHQKTPENYPNAGLTMNYCRNPDADKGPWCFTTDPSVRWEYCNLKKCSGTEASVVAP PPVVLLPDVETPSEEDCMFGNGKGYRGKRATTVTGTPCQDWAAQEPHRHSIFTPETNPRAGLEKNY CRNPDGDVGGPWCYTTNPRKLYDYCDVPQCAAPSFDCGKPQVEPKKCPGRVVGGCVAHPHSWP WQVSLRTRFGMHFCGGTLISPEWVLTAAHCLEKSPRPSSYKVILGAHQEVNLEPHVQEIEVSRLFLEPT RKDIALLKLSSPAVITDKVIPACLPSPNYVVADRTECFITGWGETQGTFGAGLLKEAQLPVIENKVCNRY EFLNGRVQSTELCAGHLAGGTDSCQGDSGGPLVCFEKDKYILQGVTSWGLGCARPNKPGVYVRVSR FVTWIEGVMRN

MMKSFFLVVTILALTLPFLGAQEQNQEQPIRCEKDERFFSDKIAKYIPIQYVLSRYPSYGLNYYQQKPVA LINNQFLPYPYYAKPAAVRSPAQILQWQVLSNTVPAKSCQAQPTTMARHPHPHLSFMAIPPKKNQD KTEIPTINTIASGEPTSTPTTEAVESTVATLEDSPEVIESPPEINTVQVTSTA

>DP00193

MKCLLLALALTCGAQALIVTQTMKGLDIQKVAGTWYSLAMAASDISLLDAQSAPLRVYVEELKPTPEG DLEILLQKWENGECAQKKIIAEKTKIPAVFKIDALNENKVLVLDTDYKKYLLFCMENSAEPEQSLACQCL VRTPEVDDEALEKFDKALKALPMHIRLSFNPTQLEEQCH

>DP00194

MDLSQLTPRRPYLLRAFYEWLLDNQLTPHLVVDVTLPGVQVPMEYARDGQIVLNIAPRAVGNLELAN DEVRFNARFGGIPRQVSVPLAAVLAIYARENGAGTMFEPEAAYDEDTSIMNDEEASADNETVMSVID GDKPDHDDDTHPDDEPPQPPRGGRPALRVV

>DP00196

MNPTETKAIPVSQQMEGPHLPNKKKHKKQAVKTEPEKKSQSTKLSVVHEKKSQEGKPKEHTEPKSLPK QASDTGSNDAHNKKAVSRSAEQQPSEKSTEPKTKPQDMISAGGESVAGITAISGKPGDKKKEKKSLTP AVPVESKPDKPSGKSGMDAALDDLIDTLGGPEETEENTTYTGPEVSDPMSSTYIEELGKREVTIPPKYR ELLAKKEGITGPPADSSKPIGPDDAIDALSSDFTCGSPTAAGKKTEKEESTEVLKAQSAGTVRSAAPPQE KKRKVEKDTMSDQALEALSASLGTRQAEPELDLRSIKEVDEAKAKEEKLEKCGEDDETIPSEYRLKPATD KDGKPLLPEPEEKPKPRSESELIDELSEDFDRSECKEKPSKPTEKTEESKAAAPAPVSEAVSRTSMCSIQS APPEPATLKGTVPDDAVEALADSLGKKEADPEDGKPVMDKVKEKAKEEDREKLGEKEETIPPDYRLEEV KDKDGKPLLPKESKEQLPPMSEDFLLDALSEDFSGPQNASSLKFEDAKLAAAISEVVSQTPASTTQAGA PPRDTSQSDKDLDDALDKLSDSLGQRQPDPDENKPMGDKVKEKAKAEHRDKLGERDDTIPPEYRHL LDDNGQDKPVKPPTKKSEDSKKPADDQDPIDALSGDLDSCPSTTETSQNTAKDKCKKAASSSKAPKN GGKAKDSAKTTEETSKPKD

>DP00198

MQHWLDKLTDLAAIEGDECILKTGLADIADHFGFTGYAYLHIQHRHITAVTNYHRQWQSTYFDKKFE ALDPVVKRARSRKHIFTWSGEHERPTLSKDERAFYDHASDFGIRSGITIPIKTANGFMSMFTMASDKPV IDLDREIDAVAAAATIGQIHARISFLRTTPTAEDAAWLDPKEATYLRWIAVGKTMEEIADVEGVKYNSV RVKLREAMKRFDVRSKAHLTALAIRRKL

>DP00199

MKVLILACLVALALARETIESLSSSEESITEYKQKVEKVKHEDQQQGEDEHQDKIYPSFQPQPLIYPFVEP IPYGFLPQNILPLAQPAVVLPVPQPEIMEVPKAKDTVYTKGRVMPVLKSPTIPFFDPQIPKLTDLENLHL PLPLLQPLMQQVPQPIPQTLALPPQPLWSVPQPKVLPIPQQVVPYPQRAVPVQALLLNQELLLNPTH OIYPVTOPLAPVHNPIS

MKWKALFTAAILQAQLPITEAQSFGLLDPKLCYLLDGILFIYGVILTALFLRVKFSRSADAPAYQQGQN QLYNELNLGRREEYDVLDKRRGRDPEMGGKPQRRKNPQEGLYNELQKDKMAEAYSEIGMKGERRR GKGHDGLYQGLSTATKDTYDALHMQALPP

>DP00201

MILQRLFRLSSAVQSAISVSWRRNIGITAVAFNKELDPVQKLFVDKIREYRTKRQTSGGPVDAGPEYQQ DLDRELFKLKQMYGKADMNTFPNFTFEDPKFEVVEKPQ

>DP00205

MKTTLIKVIAASVTALFLSMQVYASGHTAHVDEAVKHAEEAVAHGKEGHTDQLLEHAKESLTHAKAA SEAGGNTHVGHGIKHLEDAIKHGEEGHVGVATKHAQEAIEHLRASEHKS

>DP00207

MKRMLINATQQEELRVALVDGQRLYDLDIESPGHEQKKANIYKGKITRIEPSLEAAFVDYGAERHGFLP LKEIAREYFPANYSAHGRPNIKDVLREGQEVIVQIDKEERGNKGAALTTFISLAGSYLVLMPNNPRAGGI SRRIEGDDRTELKEALASLELPEGMGLIVRTAGVGKSAEALQWDLSFRLKHWEAIKKAAESRPAPFLIH QESNVIVRAFRDYLRQDIGEILIDNPKVLELARQHIAALGRPDFSSKIKLYTGEIPLFSHYQIESQIESAFQ REVRLPSGGSIVIDSTEALTAIDINSARATRGGDIEETAFNTNLEAADEIARQLRLRDLGGLIVIDFIDMTP VRHORAVENRLREAVRODRARIOISHISRFGLLEMSRORLSPSLGESSHHVCPRCSGTGTVRDNESLS LSILRLIEEEALKENTQEVHAIVPVPIASYLLNEKRSAVNAIETRQDGVRCVIVPNDQMETPHYHVLRVR KGEETPTLSYMLPKLHEEAMALPSEEEFAERKRPEQPALATFAMPDVPPAPTPAEPAAPVVAPAPKAA PATPAAPAQPGLLSRFFGALKALFSGGEETKPTEQPAPKAEAKPERQQDRRKPRQNNRRDRNERRDT RSERTEGSDNREENRRNROAOOOTAETRESROOAEVTEKARTADEOOAPRRERSRRRNDDKROA OOEAKALNVEEOSVOETEOEERVRPVOPRRKOROLNOKVRYEOSVAEEAVVAPVVEETVAAEPIVO EAPAPRTELVKVPLPVVAQTAPEQQEENNADNRDNGGMPRRSRRSPRHLRVSGQRRRRYRDERYPT QSPMPLTVACASPELASGKVWIRYPIVRPQDVQVEEQREQEEVHVQPMVTEVPVAAAIEPVVSAPVV EEVAGVVEAPVQVAEPQPEVVETTHPEVIAAAVTEQPQVITESDVAVAQEVAEQAEPVVEPQEETADI EEVVETAEVVVAEPEVVAQPAAPVVAEVAAEVETVAAVEPEVTVEHNHATAPMTRAPAPEYVPEAPR HSDWQRPTFAFEGKGAAGGHTATHHASAAPARPQPV

>DP00210

MEAIAKYDFKATADDELSFKRGDILKVLNEECDQNWYKAELNGKDGFIPKNYIEMKPHPWFFGKIPRA KAEEMLSKQRHDGAFLIRESESAPGDFSLSVKFGNDVQHFKVLRDGAGKYFLWVVKFNSLNELVDYH RSTSVSRNQQIFLRDIEQVPQQPTYVQALFDFDPQEDGELGFRRGDFIHVMDNSDPNWWKGACHG QTGMFPRNYVTPVNRN

MRIAVICFCLLGITCAIPVKQADSGSSEEKQLYNKYPDAVATWLNPDPSQKQNLLAPQNAVSSEETN DFKQETLPSKSNESHDHMDDMDDEDDDDHVDSQDSIDSNDSDDVDDTDDSHQSDESHHSDESD ELVTDFPTDLPATEVFTPVVPTVDTYDGRGDSVVYGLRSKSKKFRRPDIQYPDATDEDITSHMESEELN GAYKAIPVAQDLNAPSDWDSRGKDSYETSQLDDQSAETHSHKQSRLYKRKANDESNEHSDVIDSQE LSKVSREFHSHEFHSHEDMLVVDPKSKEEDKHLKFRISHELDSASSEV

>DP00218

MKMADAKQKRNEQLKRWIGSETDLEPPVVKRKKTKVKFDDGAVFLAACSSGDTEEVLRLLERGADIN YANVDGLTALHQACIDDNVDMVKFLVENGANINQPDNEGWIPLHAAASCGYLDIAEYLISQGAHV GAVNSEGDTPLDIAEEEAMEELLQNEVNRQGVDIEAARKEEERIMLRDARQWLNSGHINDVRHAKS GGTALHVAAAKGYTEVLKLLIQARYDVNIKDYDGWTPLHAAAHWGKEEACRILVENLCDMEAVNKV GQTAFDVADEDILGYLEELQKKQNLLHSEKREKKSPLIESTANLDNNQTQKTFKNKETLIMEQEKNASS IESLEHEKADEEEEGKKDESSCSSEEEEDDDSESEAETDKAKTLANANTTSTQSASMTAPSVAGGQGT PTSPLKKFPTSTTKVSPKEEERKDESPASWRLGLRKTGSYGALAEITASKEAQKEKDSAGVIRSASSPRLS SSLDNKEKEKDGKGTRLAYVAPTIPRRLASTSDIDEKENSGSFGRRQDDLVSSNVPSTASTVTSSAGLQ KTLPASANTTTKSTTGSTSAGVQSSTSNRLWAEDSTEKEKDSVPTAVTVPVAPSVVNAAATTTAMTT ATSGTVSSTSEVRERRRSYLTPVRDEESESQRKARSRQARQSRRSTQGVTLTDLQEAEKTIGRSRSTRTR

EQENEEKEKEKQDKEKQEEKKESETKDDDYRQRYSRTVEEPYHRYRPTSTSTSSTSSLSTSSLSSSSQLNRPNSLIGITSAYSRSGTKESEREGGKKEEEKEEDKSQPKSIRERRRPREKRRSTGVSFWTQDSDENEQEHQSDSEEGTNKKETQSDSLSRYDTGSLSVSSGDRYDSAQGRSGSQSYLEDRKPYCSRLEKEDSTDFKKLYEQILAENEKLKAQLHDTNMELTDLKLQLEKTTQRQERFADRSLLEMEKRVSGKSQYLLGGKKSSRKKD

ALLKVKFDQKKRVKLAQGLWLMNWFSVLAGIIIFGLGLFLKIELRKRSDVMNNSESHFVPNSLIGVGVL SCVFNSLAGKICYDALDPAKYAKWKPWLKPYLAVCVLFNVVLFLVALCCFLLRGSLESTLAHGLKNGM KFYRDTDTPGRCFMKKTIDMLQIEFKCCGNNGFRDWFEIQWISNRYLDFSSKEVKDRIKSNVDGRYLV DGVPFSCCNPNSPRPCIQYQLTNNSAHYSYDHQTEELNLWLRGCRAALLSYYSNLMNTTGAVTLLV WLFEVTITVGLRYLHTALEGMANPEDPECESEGWLLEKSVPETWKAFLESVKKLGKGNQVEAEGEDA GQAPAA

>DP00221

MSQQHTLPVTLSPALSQELLKTVPPPVNTHQEQMKQPTPLPPPCQKVPVELPVEVPSKQEEKHMTA VKGLPEQECEQQQKEPQEQELQQQHWEQHEEYQKAENPEQQLKQEKTQRDQQLNKQLEEEKKLL DQQLDQELVKRDEQLGMKKEQLLELPEQQEGHLKHLEQQEGQLKHPEQQEGQLELPEQQEGQLEL PEQQEGQLELPEQQEGQLELPEQQEGQLELSEQQEGQLELSEQQEGQLELSEQQEGQLELSEQQEGQLELSEQQEGQLELSEQQEGQLELSEQQEGQLEVHLEQQEGQLEVHLEQQEGQLEVHLEQQEGQPKHLEQQEGQLEQLEEQEGQLKHLEQQEGQLKHLEQQEGQPKHLEEEE GQLKHLVQQEGQLKHLEQQEGQLEQUERQVEHLEQQVGQLKHLEEQEGQLKHLEQQQGQLEVPEQQVGQPKNLEQEEKQLELPEQQEGQVKHLEKQEAQLELPEQQVGQPKHLEQQEKHLEHPEQQDGQLKHLEQQEGQLKHLEQQEGQVKHLEKQEAQLELPEQQVGQPKHLEQQEKHLEHPEQQDGQLKHLEQQEGQVKGQLEQPVFAPAPGQVQDIQPALPTKGEVLLPVEHQQQKQEVQWPPKH

MAKRVADAQIQRETYDSNESDDDVTPSTKVASSAVMNRRKIAMPKRRMAFKPFGSAKSDETKQASS FSFLNRADGTGEAQVDNSPTTESNSRLKALNLQFKAKVDDLVLGKPLADLRPLFTRYELYIKNILEAPVK SIENPTQTKGNDAKPAKVEDVQKSSDSSSEDEVKVEGPKFTIDAKPPISDSVFSFGPKKENRKKDESDS ENDIEIKGPEFKFSGTVSSDVFKLNPSTDKNEKKTETNAKPFSFSSATSTTEQTKSKNPLSLTEATKTNVD NNSKAEASFTFGTKHAADSQNNKPSFVFGQAAAKPSLEKSSFTFGSTTIEKKNDENSTSNSKPEKSSDS NDSNPSFSFSIPSKNTPDASKPSFSFGVPNSSKNETSKPVFSFGAATPSAKEASQEDDNNNVEKPSSKP AFNLISNAGTEKEKESKKDSKPAFSFGISNGSESKDSDKPSLPSAVDGENDKKEATKPAFSFGINTNTTK TADTKAPTFTFGSSALADNKEDVKKPFSFGTSQPNNTPSFSFGKTTANLPANSSTSPAPSIPSTGFKFSL PFEQKGSQTTTNDSKEESTTEATGNESQDATKVDATPEESKPINLQNGEEDEVALFSQKAKLMTFNAE TKSYDSRGVGEMKLLKKKDDPSKVRLLCRSDGMGNVLLNATVVDSFKYEPLAPGNDNLIKAPTVAAD GKLVTYIVKFKOKEEGRSFTKAIEDAKKEM

>DP00224

MHHQQRMAALGTDKELSDLLDFSAMFSPPVSSGKNGPTSLASGHFTGSNVEDRSSSGSWGNGGHP SPSRNYGDGTPYDHMTSRDLGSHDNLSPPFVNSRIQSKTERGSYSSYGRESNLQGCHQQSLLGGDM DMGNPGTLSPTKPGSQYYQYSSNNPRRRPLHSSAMEVQTKKVRKVPPGLPSSVYAPSASTADYNRD SPGYPSSKPATSTFPSSFFMQDGHHSSDPWSSSSGMNQPGYAGMLGNSSHIPQSSSYCSLHPHERL SYPSHSSADINSSLPPMSTFHRSGTNHYSTSSCTPPANGTDSIMANRGSGAAGSSQTGDALGKALASI YSPDHTNNSFSSNPSTPVGSPPSLSAGTAVWSRNGGQASSSPNYEGPLHSLQSRIEDRLERLDDAIHV LRNHAVGPSTAMPGGHGDMHGIIGPSHNGAMGGLGSGYGTGLLSANRHSLMVGTHREDGVALRG SHSLLPNQVPVPQLPVQSATSPDLNPPQDPYRGMPPGLQGQSVSSGSSEIKSDDEGDENLQDTKSS EDKKLDDDKKDIKSITSNNDDEDLTPEQKAEREKERRMANNARERLRVRDINEAFKELGRMVQLHLKS DKPQTKLLILHQAVAVILSLEQQVRERNLNPKAACLKRREEEKVSSEPPPLSLAGPHPGMGDASNHM GQ

MSGQTLTDRIAAAQYSVTGSAVARAVCKATTHEVMGPKKKHLDYLIQATNETNVNIPQMADTLFER ATNSSWVVVFKALVTTHHLMVHGNERFIQYLASRNTLFNLSNFLDKSGSHGYDMSTFIRRYSRYLNEK AFSYRQMAFDFARVKKGADGVMRTMVPEKLLKSMPILQGQIDALLEFDVHPNELTNGVINAAFMLLF KDLIKLFACYNDGVINLLEKFFEMKKGQCKDALEIYKRFLTRMTRVSEFLKVADEVGIDKGDIPDLTQAP SSLMETLEQHLNTLEGKKPGNNEGSGAPSPLSKSSPATTVTSPNSTPAKTIDTSPPVDIFATASAAAPVS SAKPSSDLLDLQPDFSGARAGAAAPVPPPTGGATAWGDLLGEDSLAALSSVPSEAPISDPFAPEPSPP TTTTEPASASASATTAVTAATTEVDLFGDAFAASPGEAPAASEGATAPATPAPVAAALDACSGNDPF APSEGSAEAAPELDLFAMKPPETSAPVVTPTASTAPPVPATAPSPAPTAVAATAATTTAAAAATTTAT TSAAAATTAAAPPALDIFGDLFDSAPEVAAASKPDVAPSIDLFGTDAFSSPPRGASPVPESSLTADLLS GSGFHCAEDDRHVPLFFTAVDAFAAPSPASTASPAKAESSGVIDLFGDAFGSSASETQPAPQAVSSSS ASADLLAGFGGSFMAPSTTPVTPAQNNLLQPNFEAAFGTTPSTSSSSSFDPSGDLLMPTMAPSGQPA PVSMVPPSPAMSASKGLGSDLDSSLASLVGNLGISGTTSKKGDLQWNAGEKKLTGGANWQPKVTPA TWSAGVPPQGTVPPTSSVPPGAGAPSVGQPGAGYGMPPAGTGMTMMPQQPVMFAQPMMRPPF GAAAVPGTQLSPSPTPATQSPKKPPAKDPLADLNIKDF

>DP00226

MASVLEELQKDLEEVKVLLEKSTRKRLRDTLTSEKSKIETELKNKMQQKSQKKPELDNEKPAAVVAPLTT GYTVKISNYGWDQSDKFVKIYITLTGVHQVPTENVQVHFTERSFDLLVKNLNGKNYSMIVNNLLKPIS VESSSKKVKTDTVIILCRKKAENTRWDYLTQVEKECKEKEKPSYDTEADPSEGLMNVLKKIYEDGDDDM KRTINKAWVESREKQAREDTE

>DP00227

MKTFLIFVLLAMAMKIATAARELNPSNKELQSPQQSFSYQQQPFPQQPYPQQPYPSQQPYPSQQPF PTPQQQFPEQSQQPFTQPQQPTPIQPQQPFPQQPQQPQQPFPQPQQPFPWQPQQPFPQTQQS FPLQPQQPFPQQPQQPFPQPQLPFPQQSEQIIPQQLQQPFPLQPQQPFPQQPQQPFPQPQQPIPV QPQQSFPQQSQQSQQPFAQPQQLFPELQQPIPQQPQQPFPLQPQQPFPQQPQQPFPQQPQQSF PQQPQQPYPQQQPYGSSLTSIGG

>DP00229

>DP00231

MNNPSETSKPSMESGDGNTGTQTNGLDFQKQPVPVGGAISTAQAQAFLGHLHQVQLAGTSLQAA AOSLNVOSKSNEESGDSQOPSQPSQOPSVQAAIPQTQLMLAGGQITGLTLTPAQQQLLLQQAQA QAQLLAAAVQQHSASQQHSAAGATISASAATPMTQIPLSQPIQIAQDLQQLQQLQQQNLNLQQF VLVHPTTNLQPAQFIISQTPQGQQGLLQAQNLLTQLPQQSQANLLQSQPSITLTSQPATPTRTIAATP IQTLPQSQSTPKRIDTPSLEEPSDLEELEQFAKTFKQRRIKLGFTQGDVGLAMGKLYGNDFSQTTISRFE ALNLSFKNMCKLKPLLEKWLNDAENLSSDSSLSSPSALNSPGIEGLSRRRKKRTSIETNIRVALEKSFLEN OKPTSEEITMIADOLNMEKEVIRVWFCNRROKEKRINPPSSGGTSSSPIKAIFPSPTSLVATTPSLVTSSA ATTLTVSPVLPLTSAAVTNLSVTGTSDTTSNNTATVISTAPPASSAVTSPSLSPSPSASASTSEASSASET STTQTTSTPLSSPLGTSQVMVTASGLQTAAAAALQGAAQLPANASLAAMAAAAGLNPSLMAPSQF AAGGALLSLNPGTLSGALSPALMSNSTLATIQALASGGSLPITSLDATGNLVFANAGGAPNIVTAPLFL NPQNLSLLTSNPVSLVSAAAASAGNSAPVASLHATSTSAESIQNSLFTVASASGAASTTTTASKA >DP00232

MAASTASHRPIKGILKNKTSSTSSRVASAEQPRGSVDEELSKKSQKWDEMNILATYHPADKDYGLMKI

DEPSTPYHSMIGDDDDAYSDTETTEAMTPDTLAKKLAAAEGSEPKYRIREQESSGEEDSDLSPEEREKK RQFEMKRKLHYNEGLNIKLARQLISKDLHDDEEDEEMSETADGESMNTEESNQGSTPSDQRQNKSQ S

>DP00233

MIPVTILCVLLCLNLAWAQDGKTTFEKEGGGGRGPRILENMHESSCKYEKNWPICVDDDWGTKCPSC CRMQGIIDDTDQNYSQRIDNIRQQLADSQNKYKTSNRVIVETINILKPGLEGAQQLDENYGHVSTELR RRIVTLKQRVATQVNRIKALQNSIQEQVVEMKRLEVDIDIKIRACKGSCARSFDYQVDKEGYDNIQKH LTQASSIDMHPDFQTTTLSTLKMRPLKDSNVPEHFKLKPSPEMQAMSAFNNIKQMQVVLERPETDH VAEARGDSSPSHTGKLITSSHRRESPSLVDKTSSASSVHRCTRTVTKKVISGPDGPREEIVEKMVSSDGS DCSHLQGGREGSTYHFSGTGDFHKLDRLLPDLESFFTHDSVSTSSRHSIGSSTSSHVTGAGSSHLGTG GKDKFTDLGEEEEDDFGGLQPSGFAAGSASHSKTVLTSSSSSFNKGGSTFETKSLKTRETSEQLGGVQH DQSAEDTPDFKARSFRPAAMSTRRSYNGKDCDDIRQKHTSGAKSGIFKIKPEGSNKVLSVYCDQETTL GGWLLIQQRMDGSVNFNRTWQDYRRGFGSVDGKGQGELWLGNENIHLLTQNDTLLRVELEDWD GNAAYAEYIVQVGTEAEGYALTVSSYEGTAGDALVAGWLEEGSEYTSHAQMQFSTFDRDQDHWEE SCAEVYGGGWWYNSCQAANLNGIYYPGGHYDPRYNVPYEIENGVVWIPFRASDYSLKVVRMKIRPL ET

>DP00235

MMGVKSVTSRLAVGDLLSLLFSTSMAYIATRENCCILDERFGSYCPTTCGIADFFNKYRLTTDGELLEIE GLLQQATNSTGSIEYLIQHIKTIYPSEKQTLPQSIEQLTQKSKKIIEEIIRYENTILAHENTIQQLTDMHIMN SNKITQLKQKIAQLESHCQEPCKDTAEIQETTGRDCQDIANKGARKSGLYFIKPQKAKQSFLVYCEIDT YGNGWTVLQRRLDGSEDFRRNWVQYKEGFGHLSPDDTTEFWLGNEKIHLITTQSTLPYALRIELEDW SGKKGTADYAVFKVGTEEDKYRLTYAYFIGGERGDAFDGFNFGDDPSDKSYTYHNGMRFSTFDNDN DNFEGNCAEQDGSGWWMNRCHAGHLNGPYYIGGVYSRDTGTNSYDNGIIWATWRDRWYSMKK TTMKIIPFNRLSIDGQQHSGGLKQVGD

>DP00236

MGNHAGKRELNAEKASTNSETNRGESEKKRNLGELSRTTSEDNEVFGEADANQNNGTSSQDTAVT DSKRTADPKNAWQDAHPADPGSRPHLIRLFSRDAPGREDNTFKDRPSESDELQTIQEDSAATSESLD VMASQKRPSQRHGSKYLATASTMDHARHGFLPRHRDTGILDSIGRFFGGDRGAPKRGSGKDSHHPA RTAHYGSLPQKSHGRTQDENPVVHFFKNIVTPRTPPPSQGKGRGLSLSRFSWGAEGQRPGFGYGGR ASDYKSAHKGFKGVDAQGTLSKIFKLGGRDSRSGSPMAR

>DP00239

MTHHDCAHCSSDACATEMLNLAEANSIETAWHRYEKQQPQCGFGSAGLCCRICLKGPCRIDPFGEG PKYGVCGADRDTIVARHLVRMIAAGTAAHSEHGRHIALAMQHISQGELHDYSIRDEAKLYAIAKTLGV ATEGRGLLAIVGDLAAITLGDFQNQDYDKPCAWLAASLTPRRVKRLGDLGLLPHNIDASVAQTMSRT HVGCDADPTNLILGGLRVAMADLDGSMLATELSDALFGTPQPVVSAANLGVMKRGAVNIAVNGHN PMLSDIICDVAADLRDEAIAAGAAEGINIIGICCTGHEVMMRHGVPLATNYLSQELPILTGALEAMVVD VQCIMPSLPRIAECFHTQIITTDKHNKISGATHVPFDEHKAVETAKTIIRMAIAAFGRRDPNRVAIPAFK QKSIVGFSAEAVVAALAKVNADDPLKPLVDNVVNGNIQGIVLFVGCNTTKVQQDSAYVDLAKSLAKR NVLVLATGCAAGAFAKAGLMTSEATTQYAGEGLKGVLSAIGTAAGLGGPLPLVMHMGSCVDNSRA VALATALANKLGVDLSDLPLVASAPECMSEKALAIGSWAVTIGLPTHVGSVPPVIGSQIVTKLVTETAK DLVGGYFIVDTDPKSAGDKLYAAIQERRAGLG

>DP00241

MSEETVPEAASPPPPQGQPYFDRFSEDDPEYMRLRNRAADLRQDFNLMEQKKRVTMILQSPSFREEL EGLIQEQMKKGNNSSNIWALRQIADFMASTSHAVFPTSSMNVSMMTPINDLHTADSLNLAKGERL MRCKISSVYRLLDLYGWAQLSDTYVTLRVSKEQDHFLISPKGVSCSEVTASSLIKVNILGEVVEKGSSCF PVDTTGFCLHSAIYAARPDVRCIIHLHTPATAAVSAMKWGLLPVSHNALLVGDMAYYDFNGEMEQE ADRINLQKCLGPTCKILVLRNHGVVALGDTVEEAFYKIFHLQAACEIQVSALSSAGGVENLILLEQEKHR PHEVGSVQWAGSTFGPMQKSRLGEHEFEALMRMLDNLGYRTGYTYRHPFVQEKTKHKSEVEIPATV TAFVFEEDGAPVPALRQHAQKQQKEKTRWLNTPNTYLRVNVADEVQRSMGSPRPKTTWMKADEV EKSSSGMPIRIENPNQFVPLYTDPQEVLEMRNKIREQNRQDVKSAGPQSQLLASVIAEKSRSPSTESQL MSKGDEDTKDDSEETVPNPFSQLTDQELEEYKKEVERKKLELDGEKETAPEEPGSPAKSAPASPVQSPA KEAETKSPLVSPSKSLEEGTKKTETSKAATTEPETTQPEGVVVNGREEEQTAEEILSKGLSQMTTSADTD VDTSKDKTESVTSGPMSPEGSPSKSPSKKKKKKKFRTPSFLKKSKKKKEKVE

>DP00242

TDKIRTLQGRVVSDKMEKSIVVAIERFVKHPIYGKFIKRTTKLHVHDENNECGIGDVVEIRECRPLSKTKS WTLVRVVEKAV

>DP00246

MAQWDDFPDQQEDTDSCTESVKFDARSVTALLPPHPKNGPTLQERMKSYKTALITLYLIVFVVLVPIIG IVAAQLLKWETKNCTVGSVNADISPSPEGKGNGSEDEMRFREAVMERMSNMESRIQYLSDNEANLL DAKNFQNFSITTDQRFNDVLFQLNSLLSSIQEHENIIGDISKSLVGLNTTVLDLQFSIETLNGRVQENAF KQQEEMRKLEERIYNASAEIKSLDEKQVYLEQEIKGEMKLLNNITNDLRLKDWEHSQTLKNITLLQGPP GPPGEKGDRGPPGQNGIPGFPGLIGTPGLKGDRGISGLPGVRGFPGPMGKTGKPGLNGQKGQKGEK GSGSMQRQSNTVRLVGGSGPHEGRVEIFHEGQWGTVCDDRWELRGGLVVCRSLGYKGVQSVHKR AYFGKGTGPIWLNEVFCFGKESSIEECRIRQWGVRACSHDEDAGVTCT

00

>DP00249

MDDIYKAAVEQLTEEQKNEFKAAFDIFVLGAEDGCISTKELGKVMRMLGQNPTPEELQEMIDEVDED GSGTVDFDEFLVMMVRCMKDDSKGKSEEELSDLFRMFDKNADGYIDLEELKIMLQATGETITEDDIEE LMKDGDKNNDGRIDYDEFLEFMKGV

>DP00251

MSTSSLRRQMKNIVHNYSEAEIKVREATSNDPWGPSSSLMSEIADLTYNVVAFSEIMSMIWKRLNDH GKNWRHVYKAMTLMEYLIKTGSERVSQQCKENMYAVQTLKDFQYVDRDGKDQGVNVREKAKQLV ALLRDEDRLREERAHALKTKEKLAQTATASSAAVGSGPPPEAEQAWPQSSGEEELQLQLALAMSKEE ADQPPSCGPEDDVQLQLALSLSREEHDKEERIRRGDDLRLQMAIEESKRETGGKEESSLMDLADVFTT PAPPQASDPWGGPASVPTAVPVAAAASDPWGAPAVPPAADPWGGAAPTPASGDPWRPAAPTGP SVDPWGGTPAPAAGEGPTSDPWGSADGGAPVSGPPSSDPWAPAPAFSDPWGGSPAKPSSNGTAV GGFDTEPDEFSDFDRLRTALPTSGSSTGELELLAGEVPARSPGAFDMSGVGGSLAESVGSPPPAATPTP TPPTRKTPESFLGPNAALVDLDSLVSRPGPTPPGAKASNPFLPSGAPATGPSVTNPFQPAPPATLTLN OLRLSPVPPVPGAPPTYISPLGGGPGLPPMMPPGPPAPNTNPFL

>DP00253

MGAQFSKTAAKGEATAERPGEAAVASSPSKANGQENGHVKVNGDASPAAAEPGAKEELQANGSAP AADKEEPASGSAATPAAAEKDEAAAATEPGAGAADKEAAEAEPAEPSSPAAEAEGASASSTSSPKAE DGAAPSPSSETPKKKKKKRFSFKKSFKLSGFSFKKSKKESGEGAEAEGATAEGAKDEAAAAAGGEGAAAP GEQAGGAGAEGAAGGEPREAEAAEPEQPEQPEQPAAEEPQAEEQSEAAGEKAEEPAPGATAGDAS SAAGPEOEAPAATDEAAASAAPAASPEPOPECSPEAPPAPTA

>DP00255

MARMNRPAPVEVTYKNMRFLITHNPTNATLNKFIEELKKYGVTTIVRVCEATYDTTLVEKEGIHVLDW PFDDGAPPSNQIVDDWLSLVKIKFREEPGCCIAVHCVAGLGRAPVLVALALIEGGMKYEDAVQFIRQK RRGAFNSKQLLYLEKYRPKMRLRFKDSNGHRNNCCI

>DP00256

MMPANEDKENNIVYTGNESSGINFPQTPAHLLKRSHSNILKPPVRLDQLKRDANSNNGNTLKYIQGG

KEVSPTKRLHTHAQQQGRLPLAAKDNNRSKSFIFPETSNQSKDADLPQLQNTLSIRKNDQLRKLSQIS RSRSRANHNDLLSNSRKLQKYGSVLGYNALPKMKSLVLKDLADSGKNEESSDDDEGNEDSESKLGKK LQSALLKQDSSDGENELNGGLGLFNEQGGLQQLIKNSTKNEQKTKNDKSDKTDDYDIEIAPQRQEPL PYVPEGYSPFQQDDIEKLKTFNSPYKLDLEDEDDTPDKVDLLPLEQIDEEGEKDETECITRNQEEGAALP LLSKNFKEVAAVPTMELVYSEEGLDPEELEDLV

MRSLLILVLCFLPLAALGKVYGRCELAAAMKRLGLDNYRGYSLGNWVCAAKFESNFNTHATNRNTDG STDYGILQINSRWWCNDGRTPGSKNLCNIPCSALLSSDITASVNCAKKIASGGNGMNAWVAWRNR CKGTDVHAWIRGCR

MEGAGGANDKKKISSERRKEKSRDAARSRRSKESEVFYELAHQLPLPHNVSSHLDKASVMRLTISYLRV RKLLDAGDLDIEDDMKAQMNCFYLKALDGFVMVLTDDGDMIYISDNVNKYMGLTQFELTGHSVFDF THPCDHEEMREMLTHRNGLVKKGKEQNTQRSFFLRMKCTLTSRGRTMNIKSATWKVLHCTGHIHVY DTNSNQPQCGYKKPPMTCLVLICEPIPHPSNIEIPLDSKTFLSRHSLDMKFSYCDERITELMGYEPEELL GRSIYEYYHALDSDHLTKTHHDMFTKGQVTTGQYRMLAKRGGYVWVETQATVIYNTKNSQPQCIVC VNYVVSGIIQHDLIFSLQQTECVLKPVESSDMKMTQLFTKVESEDTSSLFDKLKKEPDALTLLAPAAGD TIISLDFGSNDTETDDQQLEEVPLYNDVMLPSPNEKLQNINLAMSPLPTAETPKPLRSSADPALNQEV ALKLEPNPESLELSFTMPQIQDQTPSPSDGSTRQSSPEPNSPSEYCFYVDSDMVNEFKLELVEKLFAED TEAKNPFSTQDTDLDLEMLAPYIPMDDDFQLRSFDQLSPLESSSASPESASPQSTVTVFQQTQIQEPT ANATTTTATTDELKTVTKDRMEDIKILIASPSPTHIHKETTSATSSPYRDTQSRTASPNRAGKGVIEQTEK SHPRSPNVLSVALSQRTTVPEEELNPKILALQNAQRKRKMEHDGSLFQAVGIGTLLQQPDDHAATTS LSWKRVKGCKSSEQNGMEQKTIILIPSDLACRLLGQSMDESGLPQLTSYDCEVNAPIQGSRNLLQGEE LLRALDOV

MANLGYWLLALFVTMWTDVGLCKKRPKPGGWNTGGSRYPGQGSPGGNRYPPQGGTWGQPHGGGWGQPHGGSWGQPHGGSWGQPHGGGWGQGGTHNQWNKPSKPKTNLKHVAGAAAAGAVV

>DP00267

MAAVAGLYGLGEDRQHRKKQQQQQHQKEQLEQKEEQKKIAERKLQLREQQLQRNSLDGYGSLP KLSSQDEEGGAGHGFGGGPQHFEPIPHDHDFCERVVINVSGLRFETQLRTLNQFPDTLLGDPARRLR YFDPLRNEYFFDRSRPSFDAILYYYQSGGRLRRPVNVPLDVFSEEIKFYELGDQAINKFREDEGFIKEEER PLPDNEKQRKVWLLFEYPESSQAARVVAIISVFVILLSIVIFCLETLPEFKHYKVFNTTTNGTKIEEDEVPDI TDPFFLIETLCIIWFTFELTVRFLACPNKLNFCRDVMNVIDIIAIIPYFITLATVVAEEEDTLNLPKAPVSPQ DKSSNQAMSLAILRVIRLVRVFRIFKLSRHSKGLQILGRTLKASMRELGLLIFFLFIGVVLFSSAVYFAEAG SENSFFKSIPDAFWWAVVTMTTVGYGDMTPVGVWGKIVGSLCAIAGVLTIALPVPVIVSNFNYFYHRE TDQEEMQSQNFNHVTSCPYLPGTLGQHMKKSSLSESSSDMMDLDDGVESTPGLTETHPGRSAVAP FLGAQQQQQQQPVASSLSMSIDKQLQHPLQHVTQTQLYQQQQQQQQQQQQQQRFKQQQQQTQ QQLQQQQSHTINASAAAATSGSGSSGLTMRHNNALAVSIETD

>DP00268

ALNEGQIVTLAVDEIIETISAITPMAQKAKKYTPPAASMQRSSNTIWMPVEQESPTQEGWDLTDKATG LLELNVAVNMGEPDNDFFQLRADDLRDETAYRRRIQSAARKLANNVELKVANMAAEMGSLVITSPD AIGTNTADAWNFVADAEEIMFSRELNRDMGTSYFFNPQDYKKAGYDLTKRDIFGRIPEEAYRDGTIQR QVAGFDDVLRSPKLPVLTKSTATGITVSGAQSFKPVAWQLDNDGNKVNVDNRFATVTLSATTGMKR GDKISFAGVKFLGQMAKNVLAQDATFSVVRVVDGTHVEITPKPVALDDVSLSPEQRAYANVNTSLAD AMAVNILNVKDARTNVFWADDAIRIVSQPIPANHELFAGMKTTSFSIPDVGLNGIFATQGDISTLSGL CRIALWYGVNATRPEAIGVGLPGQT

>DP00270

LESGPELVKPGASVKMSCKASGYTFTSYVMHWVKQKPGQGLEWIGYINPYNDGTKYNEKFKGKATLT SDKSSSTAYMELSSLTSEDSAVYYCVRGGYRPYYAMDYWGQGTSVTVSSAKTTPPSVYPLAPGSAAQ TNSMVTLGCLVKGYFPEPVTVTWNSGSLSSGVHTFPAVLQSDLYTLSSSVTVPSSTWPSETVTCNVAH

PASSTKVDKKIVPRDCT

MNGTEGPNFYVPFSNKTGVVRSPFEAPQYYLAEPWQFSMLAAYMFLLIMLGFPINFLTLYVTVQHKKL RTPLNYILLNLAVADLFMVFGGFTTTLYTSLHGYFVFGPTGCNLEGFFATLGGEIALWSLVVLAIERYVV VCKPMSNFRFGENHAIMGVAFTWVMALACAAPPLVGWSRYIPEGMQCSCGIDYYTPHEETNNESF VIYMFVVHFIIPLIVIFFCYGQLVFTVKEAAAQQQESATTQKAEKEVTRMVIIMVIAFLICWLPYAGVAFY IFTHQGSDFGPIFMTIPAFFAKTSAVYNPVIYIMMNKQFRNCMVTTLCCGKNPLGDDEASTTVSKTET SOVAP

>DP00272

MDSSAAPTNASNCTDALAYSSCSPAPSPGSWVNLSHLDGNLSDPCGPNRTDLGGRDSLCPPTGSPS MITAITIMALYSIVCVVGLFGNFLVMYVIVRYTKMKTATNIYIFNLALADALATSTLPFQSVNYLMGTWP FGTILCKIVISIDYYNMFTSIFTLCTMSVDRYIAVCHPVKALDFRTPRNAKIINVCNWILSSAIGLPVMFM ATTKYRQGSIDCTLTFSHPTWYWENLLKICVFIFAFIMPVLIITVCYGLMILRLKSVRMLSGSKEKDRNLR RITRMVLVVVAVFIVCWTPIHIYVIIKALVTIPETTFQTVSWHFCIALGYTNSCLNPVLYAFLDENFKRCFR EFCIPTSSNIEQQNSTRIRQNTRDHPSTANTVDRTNHQLENLEAETAPL

>DP00274

MIRLGAPQSLVLLTLLVAAVLRCQGQDVQEAGSCVQDGQRYNDKDVWKPEPCRICVCDTGTVLCD
DIICEDVKDCLSPEIPFGECCPICPTDLATASGQPGPKGQKGEPGDIKDIVGPKGPPGPQGPAGEQGPR
GDRGDKGEKGAPGPRGRDGEPGTPGNPGPPGPPGPPGPPGLGGNFAAQMAGGFDEKAGGAQLG
VMQGPMGPMGPRGPPGPAGAPGPQGFQGNPGEPGEPGVSGPMGPRGPPGPPGKPGDDGEAGK
PGKAGERGPPGPQGARGFPGTPGLPGVKGHRGYPGLDGAKGEAGAPGVKGESGSPGENGSPGPM
GPRGLPGERGRTGPAGAAGARGNDGQPGPAGPPGPVGPAGGPGFPGAPGAKGEAGPTGARGPEG
AQGPRGEPGTPGSPGPAGASGNPGTDGIPGAKGSAGAPGIAGAPGFPGPRGPPGPQGATGPLGPK
GQTGEPGIAGFKGEQGPKGEPGPAGPQGAPGPAGEEGKRGARGEPGGVGPIGPPGERGAPGNRGF
PGQDGLAGPKGAPGERGPSGLAGPKGANGDPGRPGEPGLPGARGLTGRPGDAGPQGKVGPSGAP
GEDGRPGPPGPQGARGQPGVMGFPGPKGANGEPGKAGEKGLPGAPGLRGLPGKDGETGAAGPPG
PAGPAGERGEQGAPGPSGFQGLPGPPGPPGEGGKPGDQGVPGEAGAPGLVGPRGERGFPGERGSP
GAQGLQGPRGLPGTPGTDGPKGASGPAGPPGAQGPPGLQGMPGERGAAGIAGPKGDRGDVGEK
GPEGAPGKDGGRGLTGPIGPPGPAGANGEKGEVGPPGPAGSAGARGAPGERGETGPPGPAGFAGP
PGADGOPGAKGEOGEAGOKGDAGAPGPOGPSGAPGPOGPTGVTGPKGARGAOGPPGATGFPGA

AGRVGPPGSNGNPGPPGPPGPSGKDGPKGARGDSGPPGRAGEPGLQGPAGPPGEKGEPGDDGPS GAEGPPGPOGLAGORGIVGLPGORGERGFPGLPGPSGEPGKOGAPGASGDRGPPGPVGPPGLTGP AGEPGREGSPGADGPPGRDGAAGVKGDRGETGAVGAPGAPGPPGSPGPAGPTGKQGDRGEAGA QGPMGPSGPAGARGIQGPQGPRGDKGEAGEPGERGLKGHRGFTGLQGLPGPPGPSGDQGASGPA GPSGPRGPPGPVGPSGKDGANGIPGPIGPPGPRGRSGETGPAGPPGNPGPPGPPGPPGPGIDMSAF AGLGPREKGPDPLQYMRADQAAGGLRQHDAEVDATLKSLNNQIESIRSPEGSRKNPARTCRDLKLC HPEWKSGDYWIDPNQGCTLDAMKVFCNMETGETCVYPNPANVPKKNWWSSKSKEKKHIWFGETI NGGFHFSYGDDNLAPNTANVQMTFLRLLSTEGSQNITYHCKNSIAYLDEAAGNLKKALLIQGSNDVEI RAEGNSRFTYTALKDGCTKHTGKWGKTVIEYRSOKTSRLPIIDIAPMDIGGPEOEFGVDIGPVCF >DP00275

MRYNRNHMLTLMFSLLIFDAYANEPKVCFYMDDDYNGESLCAAQGNSVASIPDKWNDRISSISIPHG LVVTVYEDVDFLGASRSFEADVDLVSDKDLIYLNDNISAFKIKKAVCFYGESNFTGDSLCLSSGEQFDLY RGNYPERKQSHLVNPLNDEVYSIKIPPGMQTTVYEDDDYNGKYFVLTEDYTPDDLLIIRMNNKISSMR VSQDEDFICDRFCSIKKSIKFKIQKSFGSYWIDPRIKYRDILLDFQLSDTDDYSIKFFDEGLIKVKNYKLFFF DGNEKHGEGFLFNLSDKSSNLSFLLRFNGGFFQIQFVESLNNEIVYSSPLIGTLFDDANSDVIFDINNVD ANSPIVIDKMVLTVGKEHNRAERSTLGLATCWAIPILSIYNYIVQGHCNQADKFVHNAADFFGSPADK ILQIFGSSLPLPPKNSNETLDDESALINFMSDVKGTLTYITTNMGEHALTVPATALACKASMREKILPHL RNRRDLAPGCIDWTLSILTDFTLLFGASIEYWNSKNFGRVIENIVREGEIGSAVADVDTASRLIESVQAH VAEATEVADIIHLKTAFDFSQLSYVSYVRHTEEEVVSPQSAQALPLGRYELALVDYHFIETVPRIRQDGR WVERPDLHFDIEVISGVPEETDASRQVLLPIIEAWQHSYSQQELLFHASDILPESSLARYEIEPLLEASRLT SEVAISWLRTSRDDFVYVVVRLEGEVISLTMAVDININDVGVAGSLTNPDYVITPNAEGAVRGAGTAAI RALADHFKRKGKISLVSSVISOPSAIVKKKVGFRFIEE

>DP00278

GDWSALGKLLDKVQAYSTAGGKVWLSVLFIFRILLLGTAVESAWGDEQSAFRCNTQQPGCENVCYD KSFPISHVRFWVLQIIFVSVPTLLYLAHVFYVMRKEEKLNKKEEELKVAQTDGVNVEMHLKQIEIKKFKY GIEEHGKVKMRGGLLRTYIISILFKSVFEVAFLLIQWYIYGFSLSAVYTCKRDPCPHQVDCFLSRPTEKTIFII FMLVVSLVSLALNIIELFYVFFKGVKDRVKGRSDPYHATTGPLSPSKDCGSPKYAYFNGCSSPTAPLSP MSPPGYKLVTGDRNNSSCRNYNKQASEQNWANYSAEQNRMGQAGSTISNSHAQPFDFPDDNQN AKKVAAGHELOPLAIVDORPSSRASSRASSRPRPDDLE

>DP00279

MAEDGPQKQQLDMPLVLDQDLTKQMRLRVESLKQRGEKKQDGEKLLRPAESVYRLDFIQQQKLQF DHWNVVLDKPGKVTITGTSQNWTPDLTNLMTRQLLDPAAIFWRKEDSDAMDWNEADALEFGERLS DLAKIRKVMYFLITFGEGVEPANLKASVVFNQ

>DP00280

MIRFKKTKLIASIAMALCLFSQPVISFSKDITDKNQSIDSGISSLSYNRNEVLASNGDKIESFVPKEGKKTG NKFIVVERQKRSLTTSPVDISIIDSVNDRTYPGALQLADKAFVENRPTILMVKRKPININIDLPGLKGENSI KVDDPTYGKVSGAIDELVSKWNEKYSSTHTLPARTQYSESMVYSKSQISSALNVNAKVLENSLGVDFN AVANNEKKVMILAYKQIFYTVSADLPKNPSDLFDDSVTFNDLKQKGVSNEAPPLMVSNVAYGRTIYV KLETTSSSKDVQAAFKALIKNTDIKNSQQYKDIYENSSFTAVVLGGDAQEHNKVVTKDFDEIRKVIKDN ATFSTKNPAYPISYTSVFLKDNSVAAVHNKTDYIETTSTEYSKGKINLDHSGAYVAQFEVAWDEVSYDK EGNEVLTHKTWDGNYQDKTAHYSTVIPLEANARNIRIKARECTGLAWEWWRDVISEYDVPLTNNINV SIWGTTLYPGSSITY

MDPSMGVNSVTISVEGMTCNSCVWTIEQQIGKVNGVHHIKVSLEEKNATIIYDPKLQTPKTLQEAIDD MGFDAVIHNPDPLPVLTDTLFLTVTASLTLPWDHIQSTLLKTKGVTDIKIYPQKRTVAVTIIPSIVNANQI KELVPELSLDTGTLEKKSGACEDHSMAQAGEVVLKMKVEGMTCHSCTSTIEGKIGKLQGVQRIKVSLD NQEATIVYQPHLISVEEMKKQIEAMGFPAFVKKQPKYLKLGAIDVERLKNTPVKSSEGSQQRSPSYTN DSTATFIIDGMHCKSCVSNIESTLSALQYVSSIVVSLENRSAIVKYNASSVTPESLRKAIEAVSPGLYRVSI TSEVESTSNSPSSSSLQKIPLNVVSQPLTQETVINIDGMTCNSCVQSIEGVISKKPGVKSIRVSLANSNG TVEYDPLLTSPETLRGAIEDMGFDATLSDTNEPLVVIAOPSSEMPLLTSTNEFYTKGMTPVODKEEGKN SSKCYIQVTGMTCASCVANIERNLRREEGIYSILVALMAGKAEVRYNPAVIQPPMIAEFIRELGFGATVIE NADEGDGVLELVVRGMTCASCVHKIESSLTKHRGILYCSVALATNKAHIKYDPEIIGPRDIIHTIESLGFE ASLVKKDRSASHLDHKREIROWRRSFLVSLFFCIPVMGLMTYMMVMDHHFATLHHNQNMSKEEMI NLHSSMFLERQILPGLSVMNLLSFLLCVPVQFFGGWYFYIQAYKALKHKTANMDVLIVLATTIAFAYSLI ILLVAMYERAKVNPITFFDTPPMLFVFIALGRWLEHIAKGKTSEALAKLISLQATEATIVTLDSDNILLSEE QVDVELVQRGDIIKVVPGGKFPVDGRVIEGHSMVDESLITGEAMPVAKKPGSTVIAGSINQNGSLLICA THVGADTTLSQIVKLVEEAQTSKAPIQQFADKLSGYFVPFIVFVSIATLLVWIVIGFLNFEIVETYFPGYNR SISRTETIIRFAFQASITVLCIACPCSLGLATPTAVMVGTGVGAQNGILIKGGEPLEMAHKVKVVVFDKT GTITHGTPVVNQVKVLTESNRISHHKILAIVGTAESNSEHPLGTAITKYCKQELDTETLGTCIDFQVVPG CGISCKVTNIEGLLHKNNWNIEDNNIKNASLVQIDASNEQSSTSSSMIIDAQISNALNAQQHKVLIGN REWMIRNGLVINNDVNDFMTEHERKGRTAVLVAVDDELCGLIAIADTVKPEAELAIHILKSMGLEVVL MTGDNSKTARSIASOVGITKVFAEVLPSHKVAKVKOLOEEGKRVAMVGDGINDSPALAMANVGIAIG TGTDVAIEAADVVLIRNDLLDVVASIDLSRKTVKRIRINFVFALIYNLVGIPIAAGVFMPIGLVLQPWMG SAAMAASSVSVVLSSLFLKLYRKPTYESYELPARSQIGQKSPSEISVHVGIDDTSRNSPKLGLLDRIVNYS RASINSLLSDKRSLNSVVTSEPDKHSLLVGDFREDDDTA

>DP00283

QSGNPFSGRTLLVNSDYSSKLDQTRQAFLSRGDQTNAAKVKYVQEKVGTFYWISNIFLLRDIDVAIQN ARAAKARGENPIVGLVLYNLPDRDCSAGESSGELKLSQNGLNRYKNEYVNPFAQKLKAASDVQFAVI LEPDAIGNMVTGTSAFCRNARGPQQEAIGYAISQLQASHIHLYLDVANGGWLGWADKLEPTAQEVA TILQKAGNNAKIRGFSSNVSNYNPYSTSNPPPYTSGSPSPDESRYATNIANAMRQRGLPTQFIIDQSR VALSGARSEWGQWCNVNPAGFGQPFTTNTNNPNVDAIVWVKPGGESDGQCGMGGAPAAGMW FDAYAQMLTQNAHDEIARAGAAGSGGGNNGGGNNPNPTPTNPTNPGPTSNPGGGNPGQVTTST TSSSSTTSRATSTTSAGGVTSITTAPTRTVTIPGGASTTASYNGNPFEGVQLWANNYYRSEVHTLAIPQI TDPALRAAASAVAEVPSFQWLDRNVTVDTLLVQTLSEIREANQAGANPQYAAQIVVYDLPDRDCAA AASNGEWAIANNGVNNYKAYINRIREILISFSDVRTILVIEPDSLANMVTNMNVPKCSGAASTYRELTI YALKQLDLPHVAMYMDAGHAGWLGWPANIQPAAELFAKIYEDAGKPRAVRGLATNVANYNAWSV SSPPPYTSPNPNYDEKHYIEAFRPLLEARGFPAQFIVDQGRSGKQPTGQKEWGHWCNAIGTGFGMR PTANTGHQYVDAFVWVKPGGECDGTSDTTAARYDYHCGLEDALKPAPEAGQWFNEYFIQLLRNAN PP

>DP00284

MEMISNNLNWFVGVVEDRMDPLKLGRVRVRVVGLHPPQRAQGDVMGIPTEKLPWMSVIQPITSAA MSGIGGSVTGPVEGTRVYGHFLDKWKTNGIVLGTYGGIVREKPNRLEGFSDPTGQYPRRLGNDTNVL NQGGEVGYDSSSNVIQDSNLDTAINPDDRPLSEIPTDDNPNMSMAEMLRRDEGLRLKVYWDTEGYP TIGIGHLIMKQPVRDMAQINKVLSKQVGREITGNPGSITMEEATTLFERDLADMQRDIKSHSKVGPVW QAVNRSRQMALENMAFQMGVGGVAKFNTMLTAMLAGDWEKAYKAGRDSLWYQQTKGRASRVT MIILTGNLESYGVEVKTPARSLSAMAATVAKSSDPADPPIPNDSRILFKEPVSSYKGEYPYVHTMETESG HIQEFDDTPGQERYRLVHPTGTYEEVSPSGRRTRKTVDNLYDITNADGNFLVAGDKKTNVGGSEIYYN MDNRLHQIDGSNTIFVRGDETKTVEGNGTILVKGNVTIIVEGNADITVKGDATTLVEGNQTNTVNGN LSWKVAGTVDWDVGGDWTEKMASMSSISSGQYTIDGSRIDI

>DP00285

>DP00287

MPRRAENWDEAEVGAEEAGVEEYGPEEDGGEESGAEESGPEESGPEELGAEEEMEAGRPRPVLRSVN SREPSQVIFCNRSPRVVLPVWLNFDGEPQPYPTLPPGTGRRIHSYRGHLWLFRDAGTHDGLLVNQTE LFVPSLNVDGQPIFANITLPVYTLKERCLQVVRSLVKPENYRRLDIVRSLYEDLEDHPNVQKDLERLTQE RIAHORMG

>DP00291

MQRTKEAVKASDGSLLGDPGRIPLSKRESIKWQRPRFTRQALMRCCLIKWILSSAAPQGSDSSDSELEL STVRHQPEGLDQLQAQTKFTKKELQSLYRGFKNECPTGLVDEDTFKLIYSQFFPQGDATTYAHFLFNA FDADGNGAIHFEDFVVGLSILLRGTVHEKLKWAFNLYDINKDGCITKEEMLAIMKSIYDMMGRHTYPIL REDAPLEHVERFFQKMDRNQDGVVTIDEFLETCQKDENIMNSMQLFENV

>DP00292

MNTDVLNQQKIEELSAEIGSDNVPVLLDIFLGEMDSYIGTLTELQGSEQLLYLKEISHALKSSAASFGAD RLCERAIAIDKKAKANQLQEQGMETSEMLALLHITRDAYRSWT

>DP00296

MIHSSVKRWGNSPAVRIPATLMQALNLNIDDEVKIDLVDGKLIIEPVRKEPVFTLAELVNDITPENLHEN IDWGEPKDKEV

>DP00298

MSQSNRELVVDFLSYKLSQKGYSWSQFSDVEENRTEAPEGTESEMETPSAINGNPSWHLADSPAVN GATGHSSSLDAREVIPMAAVKQALREAGDEFELRYRRAFSDLTSQLHITPGTAYQSFEQVVNELFRDG VNWGRIVAFFSFGGALCVESVDKEMQVLVSRIAAWMATYLNDHLEPWIQENGGWDTFVELYGNNA AAESRKGQERFNRWFLTGMTVAGVVLLGSLFSR

>DP00300

MLKRIKIVTSLLLVLAVFGLLQLTSGGLFFNALKNDKENFTVLQTIRQQQSTLNGSWVALLQTRNTLNR AGIRYMMDQNNIGSGSTVAELMESASISLKQAEKNWADYEALPRDPRQSTAAAAEIKRNYDIYHNAL AELIQLLGAGKINEFFDQPTQGYQDGFEKQYVAYMEQNDRLHDIAVSDNNASYSQAMWILVGVMI VVLAVIFAVWFGIKASLVAPMNRLIDSIRHIAGGDLVKPIEVDGSNEMGQLAESLRHMQGELMRTVG DVRNGANAIYSGASEIATGNNDLSSRTEQQAASLEETAASMEQLTATVKQNAENARQASHLALSAS ETAQRGGKVVDNVVQTMRDISTSSQKIADIISVIDGIAFQTNILALNAAVEAARAGEQGRGFAVVAGE VRNLAQRSAQAAREIKSLIEDSVGKVDVGSTLVESAGETMAEIVSAVTRVTDIMGEIASASDEQSRGID QVGLAVAEMDRVTQQNAALVEESAAAAAAALEEQASRLTEAVAVFRIQQQQRETSAVVKTVTPAAPR KMAVADSEENWET

>DP00301

MISLIAALAVDRVIGMENAMPWNLPADLAWFKRNTLNKPVIMGRHTWESIGRPLPGRKNIILSSQPG TDDRVTWVKSVDEAIAACGDVPEIMVIGGGRVYEQFLPKAQKLYLTHIDAEVEGDTHFPDYEPDDWE SVFSEFHDADAQNSHSYCFEILER

>DP00303

VLSEGEWQLVLHVWAKVEADVAGHGQDILIRLFKSHPETLEKFDRFKHLKTEAEMKASEDLKKHGVTV LTALGAILKKKGHHEAELKPLAQSHATKHKIPIKYLEFISEAIIHVLHSRHPGDFGADAQGAMNKALELF RKDIAAKYKELGYQ

>DP00304

MNEVSVIKEGWLHKRGEYIKTWRPRYFLLKSDGSFIGYKERPEAPDQTLPPLNNFSVAECQLMKTERP RPNTFVIRCLQWTTVIERTFHVDSPDEREEWMRAIQMVANSLKQRAPGEDPMDYKCGSPSDSSTTEE MEVAVSKARAKVTMNDFDYLKLLGKGTFGKVILVREKATGRYYAMKILRKEVIIAKDEVAHTVTESRVL QNTRHPFLTALKYAFQTHDRLCFVMEYANGGELFFHLSRERVFTEERARFYGAEIVSALEYLHSRDVVY RDIKLENLMLDKDGHIKITDFGLCKEGISDGATMKTFCGTPEYLAPEVLEDNDYGRAVDWWGLGVVM YEMMCGRLPFYNQDHERLFELILMEEIRFPRTLSPEAKSLLAGLLKKDPKQRLGGGPSDAKEVMEHRFF LSINWQDVVQKKLLPPFKPQVTSEVDTRYFDDEFTAQSITITPPDRYDSLGLLELDQRTHFPQFSYSASI

>DP00305

MLAFAARTVVKPLGFLKPFSLMKASSRFKAHQDALPRLPVPPLQQSLDHYLKALQPIVSEEEWAHTKQ LVDEFQASGGVGERLQKGLERRARKTENWLSEWWLKTAYLQYRQPVVIYSSPGVMLPKQDFVDLQG QLRFAAKLIEGVLDFKVMIDNETLPVEYLGGKPLCMNQYYQILSSCRVPGPKQDTVSNFSKTKKPPTHI TVVHNYQFFELDVYHSDGTPLTADQIFVQLEKIWNSSLQTNKEPVGILTSNHRNSWAKAYNTLIKDKV NRDSVRSIQKSIFTVCLDATMPRVSEDVYRSHVAGQMLHGGGSRLNSGNRWFDKTLQFIVAEDGSC GLVYEHAAAEGFPIVTLLDYVIEYTKKPELVRSPMVPLPMPKKLRFNITPEIKSDIEKAKQNLSIMIQDLDI TVMVFHHFGKDFPKSEKLSPDAFIQMALQLAYYRIYGQACATYESASLRMFHLGRTDTIRSASMDSLT FVKAMDDSSVTEHQKVELLRKAVQAHRGYTDRAIRGEAFDRHLLGLKLQAIEDLVSMPDIFMDTSYAI AMHFHLSTSQVPAKTDCVMFFGPVVPDGYGVCYNPMEAHINFSLSAYNSCAETNAARLAHYLEKAL LDMRALLQSHPRAK

>DP00306

>DP00307

MYHNSSQKRHWTFSSEEQLARLRADANRKFRCKAVANGKVLPNDPVFLEPHEEMTLCKYYEKRLLEF CSVFKPAMPRSVVGTACMYFKRFYLNNSVMEYHPRIIMLTCAFLACKVDEFNVSSPQFVGNLRESPLG QEKALEQILEYELLLIQQLNFHLIVHNPYRPFEGFLIDLKTRYPILENPEILRKTADDFLNRIALTDAYLLYT PSQIALTAILSSASRAGITMESYLSESLMLKENRTCLSQLLDIMKSMRNLVKKYEPPRSEEVAVLKQKLER CHSAELALNVITKKRKGYEDDDYVSKKSKHEEEEWTDDDLVES

>DP00309

MRPSGTAGAALLALLAALCPASRALEEKKVCQGTSNKLTQLGTFEDHFLSLQRMFNNCEVVLGNLEIT YVQRNYDLSFLKTIQEVAGYVLIALNTVERIPLENLQIIRGNMYYENSYALAVLSNYDANKTGLKELPM RNLQEILHGAVRFSNNPALCNVESIQWRDIVSSDFLSNMSMDFQNHLGSCQKCDPSCPNGSCWGA GEENCOKLTKIICAOOCSGRCRGKSPSDCCHNQCAAGCTGPRESDCLVCRKFRDEATCKDTCPPLM LYNPTTYOMDVNPEGKYSFGATCVKKCPRNYVVTDHGSCVRACGADSYEMEEDGVRKCKKCEGPC RKVCNGIGIGEFKDSLSINATNIKHFKNCTSISGDLHILPVAFRGDSFTHTPPLDPQELDILKTVKEITGFLL IQAWPENRTDLHAFENLEIIRGRTKQHGQFSLAVVSLNITSLGLRSLKEISDGDVIISGNKNLCYANTIN WKKLFGTSGQKTKIISNRGENSCKATGQVCHALCSPEGCWGPEPRDCVSCRNVSRGRECVDKCNLL EGEPREFVENSECIQCHPECLPQAMNITCTGRGPDNCIQCAHYIDGPHCVKTCPAGVMGENNTLVW KYADAGHVCHLCHPNCTYGCTGPGLEGCPTNGPKIPSIATGMVGALLLLLVVALGIGLFMRRRHIVRK RTLRRLLQERELVEPLTPSGEAPNQALLRILKETEFKKIKVLGSGAFGTVYKGLWIPEGEKVKIPVAIKELRE ATSPKANKEILDEAYVMASVDNPHVCRLLGICLTSTVQLITQLMPFGCLLDYVREHKDNIGSQYLLNW CVQIAKGMNYLEDRRLVHRDLAARNVLVKTPQHVKITDFGLAKLLGAEEKEYHAEGGKVPIKWMALE SILHRIYTHQSDVWSYGVTVWELMTFGSKPYDGIPASEISSILEKGERLPQPPICTIDVYMIMVKCWMID ADSRPKFRELIIEFSKMARDPORYLVIOGDERMHLPSPTDSNFYRALMDEEDMDDVVDADEYLIPOO GFFSSPSTSRTPLLSSLSATSNNSTVACIDRNGLQSCPIKEDSFLQRYSSDPTGALTEDSIDDTFLPVPEYI NQSVPKRPAGSVQNPVYHNQPLNPAPSRDPHYQDPHSTAVGNPEYLNTVQPTCVNSTFDSPAHW AQKGSHQISLDNPDYQQDFFPKEAKPNGIFKGSTAENAEYLRVAPQSSEFIG

>DP00310

MADDPSAADRNVEIWKIKKLIKSLEAARGNGTSMISLIIPPKDQISRVAKMLADEFGTASNIKSRVNRLS VLGAITSVQQRLKLYNKVPPNGLVVYCGTIVTEEGKEKKVNIDFEPFKPINTSLYLCDNKFHTEALTALLS DDSKFGFIVIDGSGALFGTLQGNTREVLHKFTVDLPKKHGRGGQSALRFARLRMEKRHNYVRKVAET AVQLFISGDKVNVAGLVLAGSADFKTELSQSDMFDQRLQSKVLKLVDISYGGENGFNQAIELSTEVLS NVKFIQEKKLIGRYFDEISQDTGKYCFGVEDTLKALEMGAVEILIVYENLDIMRYVLHCQGTEEEKILYLT PEQEKDKSHFTDKETGQEHELIESMPLLEWFANNYKKFGATLEIVTDKSQEGSQFVKGFGGIGGILRYR VDFQGMEYOGGDDEFFDLDD

MPALARDAGTVPLLVVFSAMIFGTITNQDLPVIKCVLINHKNNDSSVGKSSSYPMVSESPEDLGCALR PQSSGTVYEAAAVEVDVSASITLQVLVDAPGNISCLWVFKHSSLNCQPHFDLQNRGVVSMVILKMTE TQAGEYLLFIQSEATNYTILFTVSIRNTLLYTLRRPYFRKMENQDALVCISESVPEPIVEWVLCDSQGESC KEESPAVVKKEEKVLHELFGTDIRCCARNELGRECTRLFTIDLNQTPQTTLPQLFLKVGEPLWIRCKAVH VNHGFGLTWELENKALEEGNYFEMSTYSTNRTMIRILFAFVSSVARNDTGYYTCSSSKHPSQSALVTIV GKGFINATNSSEDYEIDQYEEFCFSVRFKAYPQIRCTWTFSRKSFPCEQKGLDNGYSISKFCNHKHQPG EYIFHAENDDAQFTKMFTLNIRRKPQVLAEASASQASCFSDGYPLPSWTWKKCSDKSPNCTEEITEGV WNRKANRKVFGQWVSSSTLNMSEAIKGFLVKCCAYNSLGTSCETILLNSPGPFPFIQDNISFYATIGVC LLFIVVLTLLICHKYKKQFRYESQLQMVQVTGSSDNEYFYVDFREYEYDLKWEFPRENLEFGKVLGSGA FGKVMNATAYGISKTGVSIQVAVKMLKEKADSSEREALMSELKMMTQLGSHENIVNLLGACTLSGPIY LIFEYCCYGDLLNYLRSKREKFHRTWTEIFKEHNFSFYPTFQSHPNSSMPGSREVQIHPDSDQISGLHG NSFHSEDEIEYENQKRLEEEEDLNVLTFEDLLCFAYQVAKGMEFLEFKSCVHRDLAARNVLVTHGKVV KICDFGLARDIMSDSNYVVRGNARLPVKWMAPESLFEGIYTIKSDVWSYGILLWEIFSLGVNPYPGIPV DANFYKLIQNGFKMDQPFYATEEIYIIMQSCWAFDSRKRPSFPNLTSFLGCQLADAEEAMYQNVDGR VSECPHTYQNRRPFSREMDLGLLSPQAQVED

>DP00314

MEPAMEPETLEARINRATNPLNKELDWASINGFCEQLNEDFEGPPLATRLLAHKIQSPQEWEAIQALT VLETCMKSCGKRFHDEVGKFRFLNELIKVVSPKYLGSRTSEKVKNKILELLYSWTVGLPEEVKIAEAYQM LKKQGIVKSDPKLPDDTTFPLPPPRPKNVIFEDEEKSKMLARLLKSSHPEDLRAANKLIKEMVQEDQKR MEKISKRVNAIEEVNNNVKLLTEMVMSHSQGGAAAGSSEDLMKELYQRCERMRPTLFRLASDTEDN DEALAEILQANDNLTQVINLYKQLVRGEEVNGDATAGSIPGSTSALLDLSGLDLPPAGTTYPAMPTRP GEQASPEQPSASVSLLDDELMSLGLSDPTPPSGPSLDGTGWNSFQSSDATEPPAPALAQAPSMESRP PAQTSLPASSGLDDLDLLGKTLLQQSLPPESQQVRWEKQQPTPRLTLRDLQNKSSSCSSPSSSATSLL HTVSPEPPRPPQQPVPTELSLASITVPLESIKPSNILPVTVYDQHGFRILFHFARDPLPGRSDVLVVVVS MLSTAPQPIRNIVFQSAVPKVMKVKLQPPSGTELPAFNPIVHPSAITQVLLLANPQKEKVRLRYKLTFT MGDQTYNEMGDVDQFPPPETWGS

>DP00317

MKAPAVLAPGILVLLFTLVQRSNGECKEALAKSEMNVNMKYQLPNFTAETPIQNVILHEHHIFLGATN YIYVLNEEDLQKVAEYKTGPVLEHPDCFPCQDCSSKANLSGGVWKDNINMALVVDTYYDDQLISCGS VNRGTCQRHVFPHNHTADIQSEVHCIFSPQIEEPSQCPDCVVSALGAKVLSSVKDRFINFFVGNTINS SYFPDHPLHSISVRRLKETKDGFMFLTDQSYIDVLPEFRDSYPIKYVHAFESNNFIYFLTVQRETLDAQTF HTRIIRFCSINSGLHSYMEMPLECILTEKRKKRSTKKEVFNILQAAYVSKPGAQLARQIGASLNDDILFGV FAQSKPDSAEPMDRSAMCAFPIKYVNDFFNKIVNKNNVRCLQHFYGPNHEHCFNRTLLRNSSGCEA RRDEYRTEFTTALQRVDLFMGQFSEVLLTSISTFIKGDLTIANLGTSEGRFMQVVVSRSGPSTPHVNFLL DSHPVSPEVIVEHTLNQNGYTLVITGKKITKIPLNGLGCRHFQSCSQCLSAPPFVQCGWCHDKCVRSE ECLSGTWTQQICLPAIYKVFPNSAPLEGGTRLTICGWDFGFRRNNKFDLKKTRVLLGNESCTLTLSEST MNTLKCTVGPAMNKHFNMSIIISNGHGTTQYSTFSYVDPVITSISPKYGPMAGGTLLTLTGNYLNSGN SRHISIGGKTCTLKSVSNSILECYTPAQTISTEFAVKLKIDLANRETSIFSYREDPIVYEIHPTKSFISGGSTIT GVGKNLNSVSVPRMVINVHEAGRNFTVACQHRSNSEIICCTTPSLQQLNLQLPLKTKAFFMLDGILSK YFDLIYVHNPVFKPFEKPVMISMGNENVLEIKGNDIDPEAVKGEVLKVGNKSCENIHLHSEAVLCTVPN DLLKLNSELNIEWKOAISSTVLGKVIVOPDQNFTGLIAGVVSISTALLLLLGFFLWLKKRKOIKDLGSELV

RYDARVHTPHLDRLVSARSVSPTTEMVSNESVDYRATFPEDQFPNSSQNGSCRQVQYPLTDMSPILT SGDSDISSPLLQNTVHIDLSALNPELVQAVQHVVIGPSSLIVHFNEVIGRGHFGCVYHGTLLDNDGKKI HCAVKSLNRITDIGEVSQFLTEGIIMKDFSHPNVLSLLGICLRSEGSPLVVLPYMKHGDLRNFIRNETHN PTVKDLIGFGLQVAKGMKYLASKKFVHRDLAARNCMLDEKFTVKVADFGLARDMYDKEYYSVHNKT GAKLPVKWMALESLQTQKFTTKSDVWSFGVVLWELMTRGAPPYPDVNTFDITVYLLQGRRLLQPEY CPDPLYEVMLKCWHPKAEMRPSFSELVSRISAIFSTFIGEHYVHVNATYVNVKCVAPYPSLLSSEDNAD DEVDTRPASFWET

>DP00318

MFPAAPSPRTPGTGSRRGPLAGLGPGSTPRTASRKGLPLGSAVSSPVLFSPVGRRSSLSSRGTPTRMFP HHSITESVNYDVKTFGSSLPVKVMEALTLAEVDDQLTINIDEGGWACLVCKEKLIIWKIALSPITKLSVCK ELQLPPSDFHWSADLVALSYSSPSGEAHSTQAVAVMVATREGSIRYWPSLAGEDTYTEAFVDSGGDK TYSFLTAVQGGSFILSSSGSQLIRLIPESSGKIHQHILPQGQGMLSGIGRKVSSLFGILSPSSDLTLSSVLW DRERSSFYSLTSSNISKWELDDSSEKHAYSWDINRALKENITDAIWGSESNYEAIKEGVNIRYLDFKQN CDGLVILAAAWHSADNPCLIYYSLITIEDNGCQMSDAVTVEVTQYNPPFQSEDLILCQLTVPNFSNQT AYLYNESAVYVCSTGTGKFSLPQEKIVFNAQGDSVLGAGACGGVPIIFSRNSGLVSITSRENVSILAEDL EGSLASSVAGPNSESMIFETTTKNETIAQEDKIKLLKAAFLQYCRKDLGHAQMVVDELFSSHSDLDSDS ELDRAVTQISVDLMDDYPASDPRWAESVPEEAPGFSNTSLIILHQLEDKMKAHSFLMDFIHQVGLFGR LGSFPVRGTPMATRLLLCEHAEKLSAAIVLKNHHSRLSDLVNTAILIALNKREYEIPSNLTPADVFFREVS OVDTICECLLEHEEOVLRDAPMDSIEWAEVVINVNNILKDMLQAASHYRONRNSLYRREESLEKEPEY VPWTATSGPGGIRTVIIRQHEIVLKVAYPQADSNLRNIVTEQLVALIDCFLDGYVSQLKSVDKSSNRER YDNLEMEYLQKRSDLLSPLLSLGQYLWAASLAEKYCDFDILVQMCEQTDNQSRLQRYMTQFADQNF SDFLFRWYLEKGKRGKLLSQPISQHGQLANFLQAHEHLSWLHEINSQELEKAHATLLGLANMETRYFA KKKTLLGLSKLAALASDFSEDMLQEKIEEMAEQERFLLHQETLPEQLLAEKQLNLSAMPVLTAPQLIGLY ICEENRRANEYDFKKALDLLEYIDEEEDININDLKLEILCKALORDNWSSSDGKDDPIEVSKDSIFVKILOK LLKDGIQLSEYLPEVKDLLQADQLGSLKSNPYFEFVLKANYEYYVQGQ

>DP00320

>DP00321

MAQGTLIRVTPEQPTHAVCVLGTLTQLDICSSAPEDCTSFSINASPGVVVDIAHSPPAKKKSTGSSTWP LDPGVEVTLTMKAASGSTGDQKVQISYYGPKTPPVKALLYLTAVEISLCADITRTGKVKPTRAVKDQRT WTWGPCGQGAILLVNCDRDNLESSAMDCEDDEVLDSEDLQDMSLMTLSTKTPKDFFTNHTLVLHV ARSEMDKVRVFQATRGKLSSKCSVVLGPKWPSHYLMVPGGKHNMDFYVEALAFPDTDFPGLITLTISL LDTSNLELPEAVVFQDSVVFRVAPWIMTPNTQPPQEVYACSIFENEDFLKSVTTLAMKAKCKLTICPEE ENMDDQWMQDEMEIGYIQAPHKTLPVVFDSPRNRGLKEFPIKRVMGPDFGYVTRGPQTGGISGLDS FGNLEVSPPVTVRGKEYPLGRILFGDSCYPSNDSRQMHQALQDFLSAQQVQAPVKLYSDWLSVGHV DEFLSFVPAPDRKGFRLLLASPRSCYKLFQEQQNEGHGEALLFEGIKKKKQQKIKNILSNKTLREHNSFV ERCIDWNRELLKRELGLAESDIIDIPQLFKLKEFSKAEAFFPNMVNMLVLGKHLGIPKPFGPVINGRCCLE EKVCSLLEPLGLQCTFINDFFTYHIRHGEVHCGTNVRRKPFSFKWWNMV

MEOOPLTLTAATTRAOELRKOLNOYSHEYYVKDOPSVEDYVYDRLYKELVDIETEFPDLITPDSPTOR VGGKVLSGFEKAPHDIPMYSLNDGFSKEDIFAFDERVRKAIGKPVAYCCELKIDGLAISLRYENGVFVRG ATRGDGTVGENITENLRTVRSVPMRLTEPISVEVRGECYMPKOSFVALNEEREENGODIFANPRNAA AGSLRQLDTKIVAKRNLNTFLYTVADFGPMKAKTQFEALEELSAIGFRTNPERQLCQSIDEVWAYIEEY HEKRSTLPYEIDGIVIKVNEFALODELGFTVKAPRWAIAYKFPPEEAETVVEDIEWTIGRTGVVTPTAVM APVRVAGTTVSRASLHNADFIOMKDIRLNDHVIIYKAGDIIPEVAOVLVEKRAADSOPYEMPTHCPIC HSELVHLDEEVALRCINPKCPAQIKEGLNHFVSRNAMNIDGLGPRVLAQMYDKGLVKDVADLYFLTE EQLMTLDKIKEKSANNIYTAIQGSKENSVERLIFGLGIRHVGAKAAKILAEHFGDLPTLSRATAEEIVALD SIGETIADSVVTYFENEEVHELMAELEKAQVNLTYKGLRTEQLAEVESPFKDKTVVLTGKLAQYTREEAK EKIENLGGKVTGSVSKKTDIVVAGEDAGSKLTKAESLGVTVWNEQEMVDALDASH >DP00327

>DP00328

MSLPMNSLYSLTWGDYGTSLVSAIQLLRCHGDLVDCTLAAGGRSFPAHKIVLCAASPFLLDLLKNTPC KHPVVMLAGVNANDLEALLEFVYRGEVSVDHAQLPSLLQAAQCLNIQGLAPQTVTKDDYTTHSIQL QHMIPQHHDQDQLIATIATAPQQTVHAQVVEDIHHQGQILQATTQTNAAGQQQTIVTTDAAKHD QAVIQAFLPARKRKPRVKKMSPTAPKISKVEGMDTIMGTPTSSHGSGSVQQVLGENGAEGQLLSSTPI IKSEGQKVETILTMDPNNMIPVTSANAATGEITPAQGATGSSGGNTSGVLSTPKAKRAKHPPGTEKPR SRSQSEQPATCPICYAVIRQSRNLRRHLELRHFAKPGVKKEKKSKSGNDTTLDSSMEMNTTAEGDNT VGSDGAGGAGSAGGQSSGTTPTRVISNAPQAAGAPAILAQGVLPQQQQQQQQQQQQQQHQQHLTAT

| LAGGGQAYIKHEGGGGGGTGQQQQQQAAQQQGMQNVIHIVGDQVFIPQQQQPQP |
|--|
| 000000000000000000000000000000000000 |
| 000000000000000000000000000000000000 |
| 111111111111111111111111111111111111 |
| 111111111111111111111111111111111111 |
| 111111111111111111111111111111111111 |
| 111111111111111111111111111111111111 |
| 111111111111111111111111111111111111111 |
| >DP00332 |

MKTALILLSILGMACAFSMKNLHRRVKIEDSEENGVFKYRPRYYLYKHAYFYPHLKRFPVQGSSDSSEE NGDDSSEEEEEEETSNEGENNEESNEDEDSEAENTTLSATTLGYGEDATPGTGYTGLAAIQLPKKAG DITNKATKEKESDEEEEEEGNENEESEAEVDENEQGINGTSTNSTEAENGNGSSGVDNGEEGEEES VTGANAEGTTETGGQGKGTSKTTTSPNGGFEPTTPPQVYRTTSPPFGKTTTVEYEGEYEYTGANDYD NGYEIYESENGEPRGDNYRAYEDEYSYFKGQGYDGYDGQNYYHH

>DP00333

MLLSVPLLLGLLGLAVAEPAVYFKEQFLDGDGWTSRWIESKHKSDFGKFVLSSGKFYGDEEKDKGLQT SQDARFYALSASFEPFSNKGQTLVVQFTVKHEQNIDCGGGYVKLFPNSLDQTDMHGDSEYNIMFGP DICGPGTKKVHVIFNYKGKNVLINKDIRCKDDEFTHLYTLIVRPDNTYEVKIDNSQVESGSLEDDWDFL PPKKIKDPDASKPEDWDERAKIDDPTDSKPEDWDKPEHIPDPDAKKPEDWDEEMDGEWEPPVIQNP EYKGEWKPRQIDNPDYKGTWIHPEIDNPEYSPDPSIYAYDNFGVLGLDLWQVKSGTIFDNFLITNDEA YAEEFGNETWGVTKAAEKQMKDKQDEEQRLKEEEEDKKRKEEEEAEDKEDDEDKDEDEEDEEDKEED EEEDVPGQAKDE

>DP00334

MCNTNMSVPTDGAVTTSQIPASEQETLVRPKPLLLKLLKSVGAQKDTYTMKEVLFYLGQYIMTKRLYD EKQQHIVYCSNDLLGDLFGVPSFSVKEHRKIYTMIYRNLVVVNQQESSDSGTSVSENRCHLEGGSDQ KDLVQELQEEKPSSSHLVSRPSTSSRRRAISETEENSDELSGERQRKRHKSDSISLSFDESLALCVIREICC ERSSSSESTGTPSNPDLDAGVSEHSGDWLDQDSVSDQFSVEFEVESLDSEDYSLSEEGQELSDEDDEV YQVTVYQAGESDTDSFEEDPEISLADYWKCTSCNEMNPPLPSHCNRCWALRENWLPEDKGKDKGEI SEKAKLENSTQAEEGFDVPDCKKTIVNDSRESCVEENDDKITQASQSQESEDYSQPSTSSSIIYSSQED VKEFEREETQDKEESVESSLPLNAIEPCVICQGRPKNGCIVHGKTGHLMACFTCAKKLKKRNKPCPVCR QPIQMIVLTYF

>DP00340

MATQADLMELDMAMEPDRKAAVSHWQQQSYLDSGIHSGATTTAPSLSGKGNPEEEDVDTSQVLY EWEQGFSQSFTQEQVADIDGQYAMTRAQRVRAAMFPETLDEGMQIPSTQFDAAHPTNVQRLAEPS QMLKHAVVNLINYQDDAELATRAIPELTKLLNDEDQVVVNKAAVMVHQLSKKEASRHAIMRSPQM VSAIVRTMONTNDVETARCTAGTLHNLSHHREGLLAIFKSGGIPALVKMLGSPVDSVLFYAITTLHNLL LHOEGAKMAVRLAGGLOKMVALLNKTNVKFLAITTDCLOILAYGNOESKLIILASGGPOALVNIMRTY TYEKLLWTTSRVLKVLSVCSSNKPAIVEAGGMQALGLHLTDPSQRLVQNCLWTLRNLSDAATKQEG MEGLLGTLVOLLGSDDINVVTCAAGILSNLTCNNYKNKMMVCOVGGIEALVRTVLRAGDREDITEPAI CALRHLTSRHQEAEMAQNAVRLHYGLPVVVKLLHPPSHWPLIKATVGLIRNLALCPANHAPLREQGA IPRLVQLLVRAHQDTQRRTSMGGTQQQFVEGVRMEEIVEGCTGALHILARDVHNRIVIRGLNTIPLFV OLLYSPIENIORVAAGVLCELAODKEAAEAIEAEGATAPLTELLHSRNEGVATYAAAVLFRMSEDKPO DYKKRLSVELTSSLFRTEPMAWNETADLGLDIGAQGEALGYRQDDPSYRSFHSGGYGQDALGMDP MMEHEMGGHHPGADYPVDGLPDLGHAQDLMDGLPPGDSNQLAWFDTD

>DP00342

MSGGDGRGHNTGAHSTSGNINGGPTGIGVSGGASDGSGWSSENNPWGGGSGSGIHWGGGSGRG NGGGNGNSGGGSGTGGNLSAVAAPVAFGFPALSTPGAGGLAVSISASELSAAIAGIIAKLKKVNLKFT PFGVVLSSLIPSEIAKDDPNMMSKIVTSLPADDITESPVSSLPLDKATVNVNVRVVDDVKDERQNISVV SGVPMSVPVVDAKPTERPGVFTASIPGAPVLNISVNDSTPAVQTLSPGVTNNTDKDVRPAGFTQGG NTRDAVIRFPKDSGHNAVYVSVSDVLSPDQVKQRQDEENRRQQEWDATHPVEAAERNYERARAEL NQANEDVARNQERQAKAVQVYNSRKSELDAANKTLADAIAEIKQFNRFAHDPMAGGHRMWQMA GLKAQRAQTDVNNKQAAFDAAAKEKSDADAALSAAQERRKQKENKEKDAKDKLDKESKRNKPGKA TGKGKPVGDKWLDDAGKDSGAPIPDRIADKLRDKEFKSFDDFRKAVWEEVSKDPELSKNLNPSNKSS VSKGYSPFTPKNQQVGGRKVYELHHDKPISQGGEVYDMDNIRVTTPKRHIDIHRG

MSGLGENLDPLASDSRKRKLPCDTPGQGLTCSGEKRRREQESKYIEELAELISANLSDIDNFNVKPDKC AILKETVROIROIKEOGKTISNDDDVOKADVSSTGOGVIDKDSLGPLLLQALDGFLFVVNRDGNIVFVS ENVTOYLOYKOEDLVNTSVYNILHEEDRKDFLKNLPKSTVNGVSWTNETOROKSHTFNCRMLMKTP HDILEDINASPEMRQRYETMQCFALSQPRAMMEEGEDLQSCMICVARRITTGERTFPSNPESFITRHD LSGKVVNIDTNSLRSSMRPGFEDIIRRCIQRFFSLNDGQSWSQKRHYQEVTSDGIFSPTAYLNGHAETP VYRFSLADGTIVTAQTKSKLFRNPVTNDRHGFVSTHFLQREQNGYRPNPNPVGQGIRPPMAGCNSS VGGMSMSPNQGLOMPSSRAYGLADPSTTGQMSGARYGGSSNIASLTPGPGMQSPSSYQNNNYRL NMSSPPHGSPGLAPNQQNIMISPRNRGSPKIASHQFSPVAGVHSPMASSGNTGNHSFSSSSLSALQ AISEGVGTSLLSTLSSPGPKLDNSPNMNITOPSKVSNQDSKSPLGFYCDQNPVESSMCQSNSRDHLS DKESKESSVEGAENQRGPLESKGHKKLLQLLTCSSDDRGHSSLTNSPLDSSCKESSVSVTSPSGVSSST SGGVSSTSNMHGSLLQEKHRILHKLLQNGNSPAEVAKITAEATGKDTSSITSCGDGNVVKQEQLSPKK KENNALLRYLLDRDDPSDALSKELQPQVEGVDNKMSQCTSSTIPSSSQEKDPKIKTETSEEGSGDLDN LDAILGDLTSSDFYNNSISSNGSHLGTKQQVFQGTNSLGLKSSQSVQSIRPPYNRAVSLDSPVSVGSSP PVKNISAFPMLPKQPMLGGNPRMMDSQENYGSSMGDWGLPNSKAGRMEPMNSNSMGRPGGDY NTSLPRPALGGSIPTLPLRSNSIPGARPVLQQQQMLQMRPGEIPMGMGANPYGQAAASNQLGS WPDGMLSMEQVSHGTQNRPLLRNSLDDLVGPPSNLEGQSDERALLDQLHTLLSNTDATGLEEIDRA LGIPELVNQGQALEPKQDAFQGQEAAVMMDQKAGLYGQTYPAQGPPMQGGFHLQGQSPSFNSM MNQMNQQGNFPLQGMHPRANIMRPRTNTPKQLRMQLQQRLQGQQFLNQSRQALELKMENPT AGGAAVMRPMMOPOQGFLNAOMVAORSRELLSHHFROORVAMMMOQOOOOOOOO QQQQQQQQQQQQTQAFSPPPNVTASPSMDGLLAGPTMPQAPPQQFPYQPNYGMGQQPDP AFGRVSSPPNAMMSSRMGPSQNPMMQHPQAASIYQSSEMKGWPSGNLARNSSFSQQQFAHQG NPAVYSMVHMNGSSGHMGQMNMNPMPMSGMPMGPDQKY

MGTRLTTLSNGLKNTLTATKSGLHKAGQSLTQAGSSLKTGAKKIILYIPQNYQYDTEQGNGLQDLVKA AEELGIEVOREERNNIATAQTSLGTIQTAIGLTERGIVLSAPQIDKLLQKTKAGQALGSAESIVQNANKA KTVLSGIQSILGSVLAGMDLDEALQNNSNQHALAKAGLELTNSLIENIANSVKTLDEFGEQISQFGSKL ONIKGLGTLGDKLKNIGGLDKAGLGLDVISGLLSGATAALVLADKNASTAKKVGAGFELANQVVGNIT KAVSSYILAORVAAGLSSTGPVAALIASTVSLAISPLAFAGIADKFNHAKSLESYAERFKKLGYDGDNLL AEYQRGTGTIDASVTAINTALAAIAGGVSAAAAGSVIASPIALLVSGITGVISTILQYSKQAMFEHVANKI HNKIVEWEKNNHGKNYFENGYDARYLANLQDNMKFLLNLNKELQAERVIAITQQQWDNNIGDLAG ISRLGEKVLSGKAYVDAFEEGKHIKADKLVQLDSANGIIDVSNSGKAKTQHILFRTPLLTPGTEHRERVQ TGKYEYITKLNINRVDSWKITDGAASSTFDLTNVVQRIGIELDNAGNVTKTKETKIIAKLGEGDDNVFVG SGTTEIDGGEGYDRVHYSRGNYGALTIDATKETEQGSYTVNRFVETGKALHEVTSTHTALVGNREEKIE YRHSNNQHHAGYYTKDTLKAVEEIIGTSHNDIFKGSKFNDAFNGGDGVDTIDGNDGNDRLFGGKGD DILDGGNGDDFIDGGKGNDLLHGGKGDDIFVHRKGDGNDIITDSDGNDKLSFSDSNLKDLTFEKVKH NLVITNSKKEKVTIQNWFREADFAKEVPNYKATKDEKIEEIIGQNGERITSKQVDDLIAKGNGKITQDEL SKVVDNYELLKHSKNVTNSLDKLISSVSAFTSSNDSRNVLVAPTSMLDQSLSSLQFARA

>DP00346

VIDRLVVQTSSGPVRGRSVTVQGREVHVYTGIPYAKPPVEDLRFRKPVPAEPWHGVLDATGLSATCV QERYEYFPGFSGEEIWNPNTNVSEDCLYINVWAPAKARLRHGRGANGGEHPNGKQADTDHLIHNG NPQNTTNGLPILIWIYGGGFMTGSATLDIYNADIMAAVGNVIVASFQYRVGAFGFLHLAPEMPSEFAE EAPGNVGLWDQALAIRWLKDNAHAFGGNPEWMTLFGESAGSSSVNAQLMSPVTRGLVKRGMMQ SGTMNAPWSHMTSEKAVEIGKALINDCNCNASMLKTNPAHVMSCMRSVDAKTISVQQWNSYSGIL SFPSAPTIDGAFLPADPMTLMKTADLKDYDILMGNVRDEGTYFLLYDFIDYFDKDDATALPRDKYLEIM NNIFGKATQAEREAIIFQYTSWEGNPGYQNQQQIGRAVGDHFFTCPTNEYAQALAERGASVHYYYF THRTSTSLWGEWMGVLHGDEIEYFFGQPLNNSLQYRPVERELGKRMLSAVIEFAKTGNPAQDGEEW PNFSKEDPVYYIFSTDDKIEKLARGPLAARCSFWNDYLPKVRSWAGTCDGDSGSLA

MKDNTVPLKLIALLANGEFHSGEQLGETLGMSRAAINKHIQTLRDWGVDVFTVPGKGYSLPEPIQLLN AKQILGQLDGGSVAVLPVIDSTNQYLLDRIGELKSGDACIAEYQQAGRGRRGRKWFSPFGANLYLSM FWRLEQGPAAAIGLSLVIGIVMAEVLRKLGADKVRVKWPNDLYLQDRKLAGILVELTGKTGDAAQIVI GAGINMAMRRVEESVVNQGWITLQEAGINLDRNTLAAMLIRELRAALELFEQEGLAPYLSRWEKLDN FINRPVKLIIGDKEIFGISRGIDKQGALLLEQDGIIKPWMGGEISLRSAE

>DP00350

MKTLADALKEFEVLSFEIDEQALAFDVDNIEMVIEKSDITPVPKSRHFVEGVINLRGRIIPVVNLAKILGISF DEQKMKSIIVARTKDVEVGFLVDRVLGVLRITENQLDLTNVSDKFGKKSKGLVKTDGRLIIYLDIDKIIEEI TVKFG

MDSSGASSPDMEPSYGGGLFDMVKGGAGRLFSNLKDNLKDTLKDTSSRVIQSVTSYTKGDLDFTYVT SRIIVMSFPLDSVDIGFRNQVDDIRSFLDSRHLDHYTVYNLSPKSYRTAKFHSRVSECSWPIRQAPSLH NLFAVCRNMYNWLLQNPKNVCVVHCLDGRAASSILVGAMFIFCNLYSTPGPAVRLLYAKRPGIGLSP SHRRYLGYMCDLLADKPYRPHFKPLTIKSITVSPVPFFNKQRNGCRPYCDVLIGETKIYTTCADFERMKE YRVQDGKIFIPLSITVQGDVVVSMYHLRSTIGSRLQAKVTNTQIFQLQFHTGFIPLDTTVLKFTKPELDA CDVPEKYPQLFQVTLDVELQPHDKVMELTPPWEHYCTKDVNPSILFSSHQEHQDTLVLGGQAPIDIP PDNPRHFGQGGFFSTLCWQDQKSEKSFCEEDHAALVNQESEQSDDELLTLSSPHGNANGDKPHAA RKPSKKQQEPAAPAPPEDVDLLGLEGSAVSKNFSSPAAPPSNSELLSDLFGGGGAAGPVQSGQSGVD DVFHPSGPTSTQSTPRRSATSTSASPTLRVGEGATFDPFGAPSKPSGQDLLGSFLNTASASSDPFLQPT RSPSPTVHASSTPAVNIQPDVSGAWDWHTKPGGFGMGSKSAATSPTGSSHGTPTHQNKPQTLDPF ADLGTLGGSSFASKPSTPTGLGGGFPPLSSPQKASPQPMGGGWQQGGGYNWQQTQSKPQSSMP HSSPQNRPNYNVSFSSMPGGQNERGKAAANLEGKQKAADFEDLLSGQGFNAHKDKKGPRTIAEMR KEEMAKEMDPEKLKILEWIEGKERNIRALLSTMHTVLWAGETKWKPVGMADLVTPEQVKKVYRKAVL VVHPDKATGQPYEQYAKMIFMELNDAWSEFENQGQKPL

>DP00353

MMNNNGNQVSNLSNALRQVNIGSRNSNTTTDQSNINFEFSTGVNNNNNNNNSSSNNNNVQNNN SGRNGSQNNDNENNIKNTLEQHRQQQQAFSDMSHVEYSRITKFFQEQPLEGYTLFSHRSAPNGFKV AIVLSELGFHYNTIFLDFNLGEHRAPEFVSVNPNARVPALIDHGMDNLSIWESGAILLHLVNKYYKETG NPLLWSDDLADQSQINAWLFFQTSGHAPMIGQALHFRYFHSQKIASAVERYTDEVRRVYGVVEMAL AERREALVMELDTENAAAYSAGTTPMSQSRFFDYPVWLVGDKLTIADLAFVPWNNVVDRIGINIKIEF PEVYKWTKHMMRRPAVIKALRG

>DP00354

>DP00360

MSDKSDLKAELERKKQRLAQIREEKKRKEEERKKKEADMQQKKEPVQDDSDLDRKRRETEALLQSIGIS PEPPLVQPLHFLTWDTCYFHYLVPTPMSPSSKSVSTPSEAGSQDSGDLGPLTRTLQWDTDPSVLQLQ SDSELGRRLHKLGVSKVTQVDFLPREVVSYSKETQTPLATHQSEEDEEDEEMVESKVGQDSELENQDK KQEVKEAPPRELTEEEKQQILHSEEFLIFFDRTIRVIERALAEDSDIFFDYSGRELEEKDGDVQAGANLSF NRQFYDEHWSKHRVVTCMDWSLQYPELMVASYNNNEDAPHEPDGVALVWNMKFKKTTPEYVFH CQSSVMSVCFARFHPNLVVGGTYSGQIVLWDNRSHRRTPVQRTPLSAAAHTHPVYCVNVVGTQNA HNLITVSTDGKMCSWSLDMLSTPQESMELVYNKSKPVAVTGMAFPTGDVNNFVVGSEEGTVYTACR HGSKAGIGEVFEGHQGPVTGINCHMAVGPIDFSHLFVTSSFDWTVKLWTTKHNKPLYSFEDNADYVY DVMWSPVHPALFACVDGMGRLDLWNLNNDTEVPTASVAIEGASALNRVRWAQAGKEVAVGDSE GRIWVYDVGELAVPHNDEWTRFARTLVEIRANRADSEEEGTVELS

MNINDLKLTLSKAGQEHLLRFWNELEEAQQVELYAELQAMNFEELNFFFQKAIEGFNQSSHQKNVD ARMEPVPREVLGSATRDQDQLQAWESEGLFQISQNKVAVLLLAGGQGTRLGVAYPKGMYDVGLPS RKTLFQIQAERILKLQQVAEKYYGNKCIIPWYIMTSGRTMESTKEFFTKHKYFGLKKENVIFFQQGMLPA MSFDGKIILEEKNKVSMAPDGNGGLYRALAAQNIVEDMEQRGIWSIHVYCVDNILVKVADPRFIGFCI QKGADCGAKVVEKTNPTEPVGVVCRVDGVYQVVEYSEISLATAQKRSSDGRLLFNAGNIANHFFTVP FLRDVVNVYEPQLQHHVAQKKIPYVDTQGQLIKPDKPNGIKMEKFVFDIFQFAKKFVVYEVLREDEFSPLKNADSQNGKDNPTTARHALMSLHHCWVLNAGGHFIDENGSRLPAIPRSATNGKSETITADVNHNL KDANDVPIQCEISPLISYAGEGLESYVADKEFHAPLIIDENGVHELVKNG

MAMAEGERTECAEPPRDEPPADGALKRAEELKTQANDYFKAKDYENAIKFYSQAIELNPSNAIYYGNR SLAYLRTECYGYALGDATRAIELDKKYIKGYYRRAASNMALGKFRAALRDYETVVKVKPHDKDAKMKY QECNKIVKQKAFERAIAGDEHKRSVVDSLDIESMTIEDEYSGPKLEDGKVTISFMKELMQWYKDQKKL HRKCAYQILVQVKEVLSKLSTLVETTLKETEKITVCGDTHGQFYDLLNIFELNGLPSETNPYIFNGDFVDR GSFSVEVILTLFGFKLLYPDHFHLLRGNHETDNMNQIYGFEGEVKAKYTAQMYELFSEVFEWLPLAQCI NGKVLIMHGGLFSEDGVTLDDIRKIERNRQPPDSGPMCDLLWSDPQPQNGRSISKRGVSCQFGPDV TKAFLEENNLDYIIRSHEVKAEGYEVAHGGRCVTVFSAPNYCDQMGNKASYIHLQGSDLRPQFHQFT AVPHPNVKPMAYANTLLQLGM

>DP00367

>DP00363

MKTIHLGIGGPVGSGKTTLVKTLSEALKEEYSIAVITNDIYTREDANFLINENILEKDRIIGVETGGCPHTAI REDASMNFEAIEELKNRFDDLEIILLESGGDNLSATFSPELVDAFIYVIDVSEGGDIPRKGGPGVTRSDFL MVNKTELAPYVGVDLDTMKNDTIKARNGRPFTFANIKTKKGLDEIIAWIKSDLLLEGKTNESASES

>DP00372

MKAKRSHQAIIMSTSLRVSPSIHGYHFDTASRKKAVGNIFENTDQESLERLFRNSGDKKAEERAKIIFAI DQDVEEKTRALMALKKRTKDKLFQFLKLRKYSIKV

>DP00375

PEGPEIRRAADNLEAAIKGKPLTDVWFAFPQLKPYQSQLIGQHVTHVETRGKALLTHFSNDLTLYSHN QLYGVWRVVDTGEEPQTTRVLRVKLQTADKTILLYSASDIEMLTPEQLTTHPFLQRVGPDVLDPNLTP EVVKERLLSPRFRNRQFAGLLLDQAFLAGLGNYLRVEILWQVGLTGNHKAKDLNAAQLDALAHALLEI PRFSYATRGQVDENKHHGALFRFKVFHRDGEPCERCGSIIEKTTLSSRPFYWCPGCQ

>DP00376

ESLFCESSGDSSLEKDSLGAPVGPSVSTPNSQHSSPSRSLSANSIKVEMYSDEESSRLLGPDERLLDKDD SVIVEDSLSEPLGYCDGSGPEPHSPGGIRLPNGKLKCDVCGMVCIGPNVLMVHKRSHTGERPFHCNQ CGASFTQKGNLLRHIKLHSGEKPFKCPFCNYACRRRDALTGHLRTHSVSSPTVGKPYKCNYCGRSYKQ QSTLEEHKERCHNYLQSLSTDAQALTGQPGDEIRDLEMVPDSMLHPSTERPTFIDRLANSLTKRKRST PQKFVGEKQMRFSLSDLPYDVNASGGYEKDVELVAHHGLEPGFGGSLAFVGTEHLRPLRLPPTNCISE LTPVISSVYTQMQPIPSRLELPGSREAGEGPEDLGDGGPLLYRARGSLTDPGASPSNGCQDSTDTESN HEDRIGGVGIPSSGSPPQPPPTIVVGRHSPAYAKEDPKPQEGLLRGTPGPSKEVLRVVGESGEPVKAFK CEHCRILFLDHVMFTIHMGCHGFRDPFECNICGYHSQDRYEFSSHIVRGEHKV

>DP00377

MENQPKLNSSKEVIAFLAERFPHCFSAEGEARPLKIGIFQDLVDRVAGEMNLSKTQLRSALRLYTSSWR YLYGVKPGATRVDLDGNPCGELDEQHVEHARKQLEEAKARVQAQRAEQQAKKREAAATAGEKEDA PRRERKPRPTTPRRKEGAERKPRAQKPVEKAPKTVKAPREEQHTPVSDISALTVGQALKVKAGQNAM DATVLEITKDGVRVQLNSGMSLIVRAEHLV

>DP00378

TGELDLTATQLSQGANGWQIISSSSGATPTSKEQSGSSTNGSNGSESSKNRTVSGGQYVVAAAPNLQ NQQVLTGLPGVMPNIQYQVIPQFQTVDGQQLQFAATGAQVQQDGSGQIQIIPGANQQIITNRGSG GNIIAAMPNLLQQAVPLQGLANNVLSGQTQYVTNVPVALNGNITLLPVNSVSAATLTPSSQAVTISS SGSQESGSQPVTSGTTISSASLVSSQASSSSFFTNANSYSTTTTTSNMGIMNFTTSGSSGTNSQGQTP QRVSGLQGSDALNIQQNQTSGGSLQAGQQKEGEQNQQTQQQQILIQPQLVQGGQALQALQAA PLSGQTFTTQAISQETLQNLQLQAVPNSGPIIIRTPTVGPNGQVSWQTLQLQNLQVQNPQAQTITLA PMQGVSLGQTSSSNTTLTPIASAASIPAGTVTVNAAQLSSMPGLQTINLSALGTSGIQVHPIQGLPLAI ANAPGDHGAQLGLHGAGGDGIHDDTAGGEEGENSPDAQPQAGRRTRREACTCPYCKDSEGRGSG DPGKKKQHICHIQGCGKVYGKTSHLRAHLRWHTGERPFMCTWSYCGKRFTRSDELQRHKRTHTGEK KFACPECPKRFMRSDHLSKHIKTHQNKKGGPGVALSVGTLPLDSGAGSEGSGTATPSALITTNMVAM EAICPEGIARLANSGINVMOVADLOSINISGNG

>DP00379

MQRVHTITAVTEDGESLRFECRSDEDVITAALRQNIFLMSSCREGGCATCKALCSEGDYDLKGCSVQA LPPEEEEEGLVLLCRTYPKTDLEIELPYTHCRISFGEVGSFEAEVVGLNWVSSNTVQFLLQKRPDECGNR GVKFEPGQFMDLTIPGTDVSRSYSPANLPNPEGRLEFLIRVLPEGRFSDYLRNDARVGQVLSVKGPLGV FGLKERGMAPRYFVAGGTGLAPVVSMVRQMQEWTAPNETRIYFGVNTEPELFYIDELKSLERSMRNL TVKACVWHPSGDWEGEQGSPIDALREDLESSDANPDIYLCGPPGMIDAACELVRSRGIPGEQVFFEK FLPSGA

>DP00381

MNSSSANITYASRKRRKPVQKTVKPIPAEGIKSNPSKRHRDRLNTELDRLASLLPFPQDVINKLDKLSVL RLSVSYLRAKSFFDVALKSSPTERNGGQDNCRAANFREGLNLQEGEFLLQALNGFVLVVTTDALVFYA SSTIQDYLGFQQSDVIHQSVYELIHTEDRAEFQRQLHWALNPSQCTESGQGIEEATGLPQTVVCYNP DQIPPENSPLMERCFICRLRCLLDNSSGFLAMNFQGKLKYLHGQKKKGKDGSILPPQLALFAIATPLQP PSILEIRTKNFIFRTKHKLDFTPIGCDAKGRIVLGYTEAELCTRGSGYQFIHAADMLYCAESHIRMIKTGES GMIVFRLLTKNNRWTWVQSNARLLYKNGRPDYIIVTQRPLTDEEGTEHLRKRNTKLPFMFTTGEAVLY EATNPFPAIMDPLPLRTKNGTSGKDSATTSTLSKDSLNPSSLLAAMMQQDESIYLYPASSTSSTAPFEN NFFNESMNECRNWQDNTAPMGNDTILKHEQIDQPQDVNSFAGGHPGLFQDSKNSDLYSIMKNLG IDFEDIRHMQNEKFFRNDFSGEVDFRDIDLTDEILTYVQDSLSKSPFIPSDYQQQQSLALNSSCMVQE HLHLEQQQQHHQKQVVVEPQQQLCQKMKHMQVNGMFENWNSNQFVPFNCPQQDPQQYNVF

TDLHGISQEFPYKSEMDSMPYTQNFISCNQPVLPQHSKCTELDYPMGSFEPSPYPTTSSLEDFVTCLQ LPENQKHGLNPQSAIITPQTCYAGAVSMYQCQPEPQHTHVGQMQYNPVLPGQQAFLNKFQNGVL NETYPAELNNINNTQTTTHLQPLHHPSEARPFPDLTSSGF

>DP00383

SAAATQAVPAPNQQPEVFCNQIFINNEWHDAVSRKTFPTVNPSTGEVICQVAEGDKEDVDKAVKAA RAAFQLGSPWRRMDASHRGRLLNRLADLIERDRTYLAALETLDNGKPYVISYLVDLDMVLKCLRYYA GWADKYHGKTIPIDGDFFSYTRHEPVGVCGQIIPWNFPLLMQAWKLGPALATGNVVVMKVAEQTPL TALYVANLIKEAGFPPGVVNIVPGFGPTAGAAIASHEDVDKVAFTGSTEIGRVIQVAAGSSNLKRVTLEL GGKSPNIIMSDADMDWAVEQAHFALFFNQGQCCCAGSRTFVQEDIYDEFVERSVARAKSRVVGNP FDSKTEQGPQVDETQFKKILGYINTGKQEGAKLLCGGGIAADRGYFIQPTVFGDVQDGMTIAKEEIFGP VMQILKFKTIEEVVGRANNSTYGLAAAVFTKDLDKANYLSQALQAGTVWVNCYDVFGAQSPFGGYK MSGSGRELGEYGLQAYTEVKTVTVKVPQKN

>DP00385

MSGRPRTTSFAESCKPVQQPSAFGSMKVSRDKDGSKVTTVVATPGQGPDRPQEVSYTDTKVIGNGS FGVVYQAKLCDSGELVAIKKVLQDKRFKNRELQIMRKLDHCNIVRLRYFFYSSGEKKDEVYLNLVLDYV PETVYRVARHYSRAKQTLPVIYVKLYMYQLFRSLAYIHSFGICHRDIKPQNLLLDPDTAVLKLCDFGSAK QLVRGEPNVSYICSRYYRAPELIFGATDYTSSIDVWSAGCVLAELLLGQPIFPGDSGVDQLVEIIKVLGTP TREQIREMNPNYTEFKFPQIKAHPWTKVFRPRTPPEAIALCSRLLEYTPTARLTPLEACAHSFFDELRDP NVKLPNGRDTPALFNFTTQELSSNPPLATILIPPHARIQAAASTPTNATAASDANTGDRGQTNNAAS ASASNS

>DP00387

 ${\sf MKKRNRLKKNEDFQKVFKHGTSVANRQFVLYTLDQPENDELRVGLSVSKKIGNAVMRNRIKRLIRQAFLEEKERLKEKDYIIIARKPASQLTYEETKKSLQHLFRKSSLYKKSSS}$

>DP00389

MPTITAAQIKSTLQSAKQSAANKLHSAGQSTKDALKKAAEQTRNAGNRLILLIPKDYKGQGSSLNDLV RTADELGIEVOYDEKNGTAITKOVFGTAEKLIGLTERGVTIFAPOLDKLLOKYOKAGNKLGGSAENIGD NLGKAGSVLSTFQNFLGTALSSMKIDELIKKQKSGGNVSSSELAKASIELINQLVDTAASLNNVNSFSQ OLNKLGSVLSNTKHLNGVGNKLONLPNLDNIGAGLDTVSGILSAISASFILSNADADTGTKAAAGVEL TTKVLGNVGKGISOYIIAORAAOGLSTSAAAAGLIASVVTLAISPLSFLSIADKFKRANKIEEYSORFKKLG YDGDSLLAAFHKETGAIDASLTRISTVLASVSSGISAAATTSLVGAPVSALVGAVTGIISGILEASKQAMF EHVASKMADVIAEWEKKHGKNYFENGYDARHAAFLEDNFKILSQYNKEYSVERSVLITQQHWDTLIG ELAGVTRNGDKTLSGKSYIDYYEEGKRLEKKPDEFQKQVFDPLKGNIDLSDSKSSTLLKFVTPLLTPGEEI RERROSGKYEYITELLVKGVDKWTVKGVQDKGSVYDYSNLIOHASVGNNQYREIRIESHLGDGDDKV FLSAGSANIYAGKGHDVVYYDKTDTGYLTIDGTKATEAGNYTVTRVLGGDVKVLQEVVKEQEVSVGK RTEKTOYRSYEFTHINGKNLTETDNLYSVEELIGTTRADKFFGSKFADIFHGADGDDHIEGNDGNDRLY GDKGNDTLSGGNGDDQLYGGDGNDKLIGGAGNNYLNGGDGDDELQVQGNSLAKNVLSGGKGN DKLYGSEGADLLDGGEGNDLLKGGYGNDIYRYLSGYGHHIIDDDGGKDDKLSLADIDFRDVAFRREG NDLIMYKAEGNVLSIGHKNGITFKNWFEKESGDISNHOIEOIFDKDGRVITPDSLKKALEYOOSNNKAS YVYGNDALAYGSOGNLNPLINEISKIISAAGNFDVKEERAAASLLOLSGNASDFSYGRNSITLTAS

>DP00392

MSRRRHSDENDGGQPHKRRKTSDANETEDHLESLICKVGEKSACSLESNLEGLAGVLEADLPNYKSKI LRLLCTVARLLPEKLTIYTTLVGLLNARNYNFGGEFVEAMIRQLKESLKANNYNEAVYLVRFLSDLVNCH VIAAPSMVAMFENFVSVTQEEDVPQVRRDWYVYAFLSSLPWVGKELYEKKDAEMDRIFANTESYLKR RQKTHVPMLQVWTADKPHPQEEYLDCLWAQIQKLKKDRWQERHILRPYLAFDSILCEALQHNLPPF TPPPHTEDSVYPMPRVIFRMFDYTDDPEGPVMPGSHSVERFVIEENLHCIIKSHWKERKTCAAQLVSY PGKNKIPLNYHIVEVIFAELFQLPAPPHIDVMYTTLLIELCKLQPGSLPQVLAQATEMLYMRLDTMNTT CVDRFINWFSHHLSNFQFRWSWEDWSDCLSQDPESPKPKFVREVLEKCMRLSYHQRILDIVPPTFSA

LCPANPTCIYKYGDESSNSLPGHSVALCLAVAFKSKATNDEIFSILKDVPNPNQDDDDDEGFSFNPLKI EVFVQTLLHLAAKSFSHSFSALAKFHEVFKTLAESDEGKLHVLRVMFEVWRNHPQMIAVLVDKMIRTQ IVDCAAVANWIFSSELSRDFTRLFVWEILHSTIRKMNKHVLKIQKELEEAKEKLARQHKRRSDDDDRSS DRKDGVLEEQIERLQEKVESAQSEQKNLFLVIFQRFIMILTEHLVRCETDGTSVLTPWYKNCIERLQQIFL OHHOIIQOYMVTLENLLFTAELDPHILAVFOQFCALQ

>DP00395

MTRNKFIPNKFSIISFSVLLFAISSSQAIEVNAMNEHYTESDIKRNHKTEKNKTEKEKFKDSINNLVKTEFT NETLDKIQQTQDLLKKIPKDVLEIYSELGGEIYFTDIDLVEHKELQDLSEEEKNSMNSRGEKVPFASRFVF EKKRETPKLIINIKDYAINSEQSKEVYYEIGKGISLDIISKDKSLDPEFLNLIKSLSDDSDSSDLLFSQKFKEKL ELNNKSIDINFIKENLTEFQHAFSLAFSYYFAPDHRTVLELYAPDMFEYMNKLEKGGFEKISESLKKEGVE KDRIDVLKGEKALKASGLVPEHADAFKKIARELNTYILFRPVNKLATNLIKSGVATKGLNVHGKSSDWG PVAGYIPFDQDLSKKHGQQLAVEKGNLENKKSITEHEGEIGKIPLKLDHLRIEELKENGIILKGKKEIDNG KKYYLLESNNQVYEFRISDENNEVQYKTKEGKITVLGEKFNWRNIEVMAKNVEGVLKPLTADYDLFAL APSLTEIKKQIPQKEWDKVVNTPNSLEKQKGVTNLLIKYGIERKPDSTKGTLSNWQKQMLDRLNEAVK YTGYTGGDVVNHGTEQDNEEFPEKDNEIFIINPEGEFILTKNWEMTGRFIEKNITGKDYLYYFNRSYNKI APGNKAYIEWTDPITKAKINTIPTSAEFIKNLSSIRRSSNVGVYKDSGDKDEFAKKESVKKIAGYLSDYYN SANHIFSQEKKRKISIFRGIQAYNEIENVLKSKQIAPEYKNYFQYLKERITNQVQLLLTHQKSNIEFKLLYK QLNFTENETDNFEVFQKIIDE

>DP00398

MIRQSTLKNFAIKRCFQHIAYRNTPAMRSVALAQRFYSSSSRYYSASPLPASKRPEPAPSFNVDPLEQP AEPSKLAKKLRAEPDMDTSFVGLTGGQIFNEMMSRQNVDTVFGYPGGAILPVYDAIHNSDKFNFVLP KHEQGAGHMAEGYARASGKPGVVLVTSGPGATNVVTPMADAFADGIPMVVFTGQVPTSAIGTDAF

QEADVVGISRSCTKWNVMVKSVEELPLRINEAFEIATSGRPGPVLVDLPKDVTAAILRNPIPTKTTLPSN ALNQLTSRAQDEFVMQSINKAADLINLAKKPVLYVGAGILNHADGPRLLKELSDRAQIPVTTTLQGLG SFDQEDPKSLDMLGMHGCATANLAVQNADLIIAVGARFDDRVTGNISKFAPEARRAAAEGRGGIIHF EVSPKNINKVVQTQIAVEGDATTNLGKMMSKIFPVKERSEWFAQINKWKKEYPYAYMEETPGSKIKPQ TVIKKLSKVANDTGRHVIVTTGVGQHQMWAAQHWTWRNPHTFITSGGLGTMGYGLPAAIGAQVA KPESLVIDIDGDASFNMTLTELSSAVQAGTPVKILILNNEEQGMVTQWQSLFYEHRYSHTHQLNPDFI KLAEAMGLKGLRVKKQEELDAKLKEFVSTKGPVLLEVEVDKKVPVLPMVAGGSGLDEFINFDPEVERQ OTELRHKRTGGK

>DP00399

MAKYYNEPCHTFNEYLLIPGLSTVDCIPSNVNLSTPLVKFQKGQQSEINLKIPLVSAIMQSVSGEKMAIA LAREGGISFIFGSQSIESQAAMVHAVKNFKAGFVVSDSNVKPDQTFADVLAISQRTTHNTVAVTDDG TPHGVLLGLVTQRDYPIDLTQTETKVSDMMTPFSKLVTAHQDTKLSEANKIIWEKKLNALPIIDDDQHL RYIVFRKDYDRSQVCHNELVDSQKRYLVGAGINTRDFRERVPALVEAGADVLCIDSSDGFSEWQKITI GWIREKYGDKVKVGAGNIVDGEGFRYLADAGADFIKIGIGGGSICITREQKGIGRGQATAVIDVVAERN KYFEETGIYIPVCSDGGIVYDYHMTLALAMGADFIMLGRYFARFEESPTRKVTINGSVMKEYWGEGSSR ARNWQRYDLGGKQKLSFEEGVDSYVPYAGKLKDNVEASLNKVKSTMCNCGALTIPQLQSKAKITLVS SVSIVEGGAHDVIVKDRINDYHP

>DP00400

MHNDKDLSTWQTFRRLWPTIAPFKAGLIVAGVALILNAASDTFMLSLLKPLLDDGFGKTDRSVLVWM PLVVIGLMILRGITSYVSSYCISWVSGKVVMTMRRRLFGHMMGMPVSFFDKQSTGTLLSRITYDSEQV ASSSSGALITVVREGASIIGLFIMMFYYSWQLSIILIVLAPIVSIAIRVVSKRFRNISKNMQNTMGQVTTSA EQMLKGHKEVLIFGGQEVETKRFDKVSNRMRLQGMKMVSASSISDPIIQLIASLALAFVLYAASFPSVM DSLTAGTITVVFSSMIALMRPLKSLTNVNAQFQRGMAACQTLFTILDSEQEKDEGKRVIERATGDVEFR NVTFTYPGRDVPALRNINLKIPAGKTVALVGRSGSGKSTIASLITRFYDIDEGEILMDGHDLREYTLASLR NQVALVSQNVHLFNDTVANNIAYARTEQYSREQIEEAARMAYAMDFINKMDNGLDTVIGENGVLLS GGQRQRIAIARALLRDSPILILDEATSALDTESERAIQAALDELQKNRTSLVIAHRLSTIEKADEIVVVEDG VIVERGTHNDLLEHRGVYAQLHKMQFG

MQRTPAMRVLVPALLVAISALSGCGKSEAPPPAQTPEVGIVTLEAQTVTLNTELPGRTNAFRIAEVRP QVNGIILKRLFKEGSDVKAGQQLYQIDPATYEADYQSAQANLASTQEQAQRYKLLVADQAVSKQQY ADANAAYLQSKAAVEQARINLRYTKVLSPISGRIGRSAVTEGALVTNGQANAMATVQQLDPIYVDVT QPSTALLRLRRELASGQLERAGDNAAKVSLKLEDGSQYPLEGRLEFSEVSVDEGTGSVTIRAVFPNPN NELLPGMFVHAQLQEGVKQKAILAPQQGVTRDLKGQATALVVNAQNKVELRVIKADRVIGDKWLVT EGLNAGDKIITEGLQFVQPGVEVKTVPAKNVASAQKADAAPAKTDSK

>DP00412

MNIRPLHDRVIVKRKEVETKSAGGIVLTGSAAAKSTRGEVLAVGNGRILENGEVKPLDVKVGDIVIFND GYGVKSEKIDNEEVLIMSESDILAIVE

>DP00418

MRSPRTRGRSGRPLSLLLALLCALRAKVCGASGOFELEILSMONVNGELONGNCCGGARNPGDRKC TRDECDTYFKVCLKEYQSRVTAGGPCSFGSGSTPVIGGNTFNLKASRGNDRNRIVLPFSFAWPRSYTLL VEAWDSSNDTVQPDSIIEKASHSGMINPSRQWQTLKQNTGVAHFEYQIRVTCDDYYYGFGCNKFCR PRDDFFGHYACDQNGNKTCMEGWMGPECNRAICRQGCSPKHGSCKLPGDCRCQYGWQGLYCD KCIPHPGCVHGICNEPWQCLCETNWGGQLCDKDLNYCGTHQPCLNGGTCSNTGPDKYQCSCPEG YSGPNCEIAEHACLSDPCHNRGSCKETSLGFECECSPGWTGPTCSTNIDDCSPNNCSHGGTCQDLV NGFKCVCPPQWTGKTCQLDANECEAKPCVNAKSCKNLIASYYCDCLPGWMGQNCDININDCLGQ CONDASCRDLVNGYRCICPPGYAGDHCERDIDECASNPCLNGGHCQNEINRFQCLCPTGFSGNLC QLDIDYCEPNPCQNGAQCYNRASDYFCKCPEDYEGKNCSHLKDHCRTTPCEVIDSCTVAMASNDTP EGVRYISSNVCGPHGKCKSQSGGKFTCDCNKGFTGTYCHENINDCESNPCRNGGTCIDGVNSYKCIC SDGWEGAYCETNINDCSONPCHNGGTCRDLVNDFYCDCKNGWKGKTCHSRDSOCDEATCNNGG TCYDEGDAFKCMCPGGWEGTTCNIARNSSCLPNPCHNGGTCVVNGESFTCVCKEGWEGPICAQNT NDCSPHPCYNSGTCVDGDNWYRCECAPGFAGPDCRININECQSSPCAFGATCVDEINGYRCVCPP GHSGAKCQEVSGRPCITMGSVIPDGAKWDDDCNTCQCLNGRIACSKVWCGPRPCLLHKGHSECPS GQSCIPILDDQCFVHPCTGVGECRSSSLQPVKTKCTSDSYYQDNCANITFTFNKEMMSPGLTTEHICS ELRNLNILKNVSAEYSIYIACEPSPSANNEIHVAISAEDIRDDGNPIKEITDKIIDLVSKRDGNSSLIAAVAE VRVQRRPLKNRTDFLVPLLSSVLTVAWICCLVTAFYWCLRKRRKPGSHTHSASEDNTTNNVREQLNQ

IKNPIEKHGANTVPIKDYENKNSKMSKIRTHNSEVEEDDMDKHQQKARFAKQPAYTLVDREEKPPNG TPTKHPNWTNKQDNRDLESAQSLNRMEYI

111111111111111111

>DP00419

MASYPCHQHASAFDQAARSRGHNNRRTALRPRRQQEATEVRPEQKMPTLLRVYIDGPHGMGKTTT TQLLVALGSRDDIVYVPEPMTYWRVLGASETIANIYTTQHRLDQGEISAGDAAVVMTSAQITMGMPY AVTDAVLAPHIGGEAGSSHAPPPALTLIFDRHPIAALLCYPAARYLMGSMTPQAVLAFVALIPPTLPGT NIVLGALPEDRHIDRLAKRQRPGERLDLAMLAAIRRVYGLLANTVRYLQCGGSWREDWGQLSGTAV PPQGAEPQSNAGPRPHIGDTLFTLFRAPELLAPNGDLYNVFAWALDVLAKRLRSMHVFILDYDQSPA GCRDALLQLTSGMVQTHVTTPGSIPTICDLARTFAREMGEA

MAGRSGDSDEELLKAVRLIKFLYQSNPPPNPEGTRQARRNRRRRWRERQRQIHSISERILSTYLGRSAE PVPLQLPPLERLTLDCNEDCGTSGTQGVGSPQILVESPTILESGAK

>DP00426

MEELQDDYEDMMEENLEQEEYEDPDIPESQMEEPAAHDTEATATDYHTTSHPGTHKVYVELQELVM DEKNQELRWMEAARWVQLEENLGENGAWGRPHLSHLTFWSLLELRRVFTKGTVLLDLQETSLAGVA NQLLDRFIFEDQIRPQDREELLRALLLKHSHAGELEALGGVKPAVLTRSGDPSQPLLPQHSSLETQLFCE QGDGGTEGHSPSGILEKIPPDSEATLVLVGRADFLEQPVLGFVRLQEAAELEAVELPVPIRFLFVLLGPEA PHIDYTQLGRAAATLMSERVFRIDAYMAQSRGELLHSLEGFLDCSLVLPPTDAPSEQALLSLVPVQREL LRRRYQSSPAKPDSSFYKGLDLNGGPDDPLQQTGQLFGGLVRDIRRRYPYYLSDITDAFSPQVLAAVIF IYFAALSPAITFGGLLGEKTRNQMGVSELLISTAVQGILFALLGAQPLLVVGFSGPLLVFEEAFFSFCETN

GLEYIVGRVWIGFWLILLVVLVVAFEGSFLVRFISRYTQEIFSFLISLIFIYETFSKLIKIFQDHPLQKTYNYNV LMVPKPQGPLPNTALLSLVLMAGTFFFAMMLRKFKNSSYFPGKLRRVIGDFGVPISILIMVLVDFFIQDT YTQKLSVPDGFKVSNSSARGWVIHPLGLRSEFPIWMMFASALPALLVFILIFLESQITTLIVSKPERKMVK GSGFHLDLLLVVGMGGVAALFGMPWLSATTVRSVTHANALTVMGKASTPGAAAQIQEVKEQRISGL LVAVLVGLSILMEPILSRIPLAVLFGIFLYMGVTSLSGIQLFDRILLLFKPPKYHPDVPYVKRVKTWRMHLF TGIQIICLAVLWVVKSTPASLALPFVLILTVPLRRVLLPLIFRNVELQCLDADDAKATFDEEEGRDEYDEV AMP

>DP00427

SERFPNDVDPIETRDWLQAIESVIREEGVERAQYLIDQLLAEARKGGVNVAAGTGISNYINTIPVEEQPE YPGNLELERRIRSAIRWNAIMTVLRASKKDLELGGHMASFQSSATIYDVCFNHFFRARNEQDGGDLVY FQGHISPGVYARAFLEGRLTQEQLDNFRQEVHGNGLSSYPHPKLMPEFWQFPTVSMGLGPIGAIYQA KFLKYLEHRGLKDTSKQTVYAFLGDGEMDEPESKGAITIATREKLDNLVFVINCNLQRLDGPVTGNGKII NELEGIFEGAGWNVIKVMWGSRWDELLRKDTSGKLIQLMNETVDGDYQTFKSKDGAYVREHFFGKY PETAALVADWTDEQIWALNRGGHDPKKIYAAFKKAQETKGKATVILAHTIKGYGMGDAAEGKNIAH QVKKMNMDGVRHIRDRFNVPVSDADIEKLPYITFPEGSEEHTYLHAQRQKLHGYLPSRQPNFTEKLEL PSLQDFGALLEEQSKEISTTIAFVRALNVMLKNKSIKDRLVPIIADEARTFGMEGLFRQIGIYSPNGQQYT PQDREQVAYYKEDEKGQILQEGINELGAGCSWLAAATSYSTNNLPMIPFYIYYSMFGFQRIGDLCWA AGDQQARGFLIGGTSGRTTLNGEGLQHEDGHSHIQSLTIPNCISYDPAYAYEVAVIMHDGLERMYGE KQENVYYYITTLNENYHMPAMPEGAEEGIRKGIYKLETIEGSKGKVQLLGSGSILRHVREAAEILAKDYG VGSDVYSVTSFTELARDGQDCERWNMLHPLETPRVPYIAQVMNDAPAVASTDYMKLFAEQVRTYV PADDYRVLGTDGFGRSDSRENLRHHFEVDASYVVVAALGELAKRGEIDKKVVADAIAKFNIDADKVN PRL

MSAAVTAGKLARAPADPGKAGVPGVAAPGAPAAAPPAKEIPEVLVDPRSRRRYVRGRFLGKGGFAK CFEISDADTKEVFAGKIVPKSLLLKPHQREKMSMEISIHRSLAHQHVVGFHGFFEDNDFVFVVLELCRR RSLLELHKRRKALTEPEARYYLRQIVLGCQYLHRNRVIHRDLKLGNLFLNEDLEVKIGDFGLATKVEYDG ERKKTLCGTPNYIAPEVLSKKGHSFEVDVWSIGCIMYTLLVGKPPFETSCLKETYLRIKKNEYSIPKHINPV AASLIQKMLQTDPTARPTINELLNDEFFTSGYIPARLPITCLTIPPRFSIAPSSLDPSNRKPLTVLNKGLEN PLPERPREKEEPVVRETGEVVDCHLSDMLQQLHSVNASKPSERGLVRQEEAEDPACIPIFWVSKWVD YSDKYGLGYQLCDNSVGVLFNDSTRLILYNDGDSLQYIERDGTESYLTVSSHPNSLMKKITLLKYFRNY MSEHLLKAGANITPREGDELARLPYLRTWFRTRSAIILHLSNGSVQINFFQDHTKLILCPLMAAVTYIDE KRDFRTYRLSLLEEYGCCKELASRLRYARTMVDKLLSSRSASNRLKA

>DP00429

MTTQLEQAWELAKQRFAAVGIDVEEALRQLDRLPVSMHCWQGDDVSGFENPEGSLTGGIQATGNY PGKARNASELRADLEQAMRLIPGPKRLNLHAIYLESDTPVSRDQIKPEHFKNWVEWAKANQLGLDFN PSCFSHPLSADGFTLSHADDSIRQFWIDHCKASRRVSAYFGEQLGTPSVMNIWIPDGMKDITVDRLAP RQRLLAALDEVISEKLNPAHHIDAVESKLFGIGAESYTVGSNEFYMGYATSRQTALCLDAGHFHPTEVI SDKISAAMLYVPQLLLHVSRPVRWDSDHVVLLDDETQAIASEIVRHDLFDRVHIGLDFFDASINRIAA WVIGTRNMKKALLRALLEPTAELRKLEAAGDYTARLALLEEQKSLPWQAVWEMYCQRHDTPAGSEW LESVRAYEKEILSRR

>DP00431

MYHPSCKGYVLLLANMASFAILVDTFLMGVHNPSHVVPVVALMTLCATPLWLSASYVIYLLRYMLVR LSPEAKQDRVYYTATTAPYFDPALGVMMQFAPSSGGPSIEVQINPSWISLLGSSLKLNVGDASNESAV LGSFYSPVKAGDEPASLVAIKSGPTTIGFGCRTKIDGEDCLLTAHHVWCNSMRPTGLAKAGKQVSVED WEISMSSSDKMLDFAIVRVPTHVWSKLGVKSTPLVCPSSKDVITCYGGSSSDCLMSGVGSSSTSEFTW KLTHTCPTAAGWSGTPLYSSRGVVGMHVGFEEIGKLNRGVNMFYVANYLLRSNETLPPELSIIEIPFDD VETRSYEFIEVEIKGRGKAKLGKREFAWIPESGKYWADEDEDELPPPPKLVGGKLVWENAQETVAVENL NCQRAAGSRPLPPSLNLHATSSAKEKSPLPKACHSDLLGERLASLESCVEKILQKMSCEQYLPSQSSQT

TLGQSEAPKLSLAPCYYKQESLILPESQQTLKELVKTSLSATPPPNPVAALDQKPGPSTQSLKKSVRRRN RRKSTEKASPGVPLSRLASTNKDLLKRHLQLVALCVTERLFLLSEAPDLHYLSPTQLVELGYCDPVRIFVK QEPHASRKVREGRFRLISSVSLVDQLVERMLFGPQNQLEIAEWERIPSKPGMGLSLDRQARSLFGDLR VKHSRCPAAEADISGFDWSVQDWELWADVEMRVVLGGFGQTLARAARNRFSCFMNSVFQLSDGT LIEQLQPGIMKSGSYCTSSTNSRIRCLMAELIGSPWCIAMGDDSVEGWVDGAKDKYMRLGHVCKDY KPCATTPEGDLYEVEFCSHVIRANRCWLASWPKTLFKYLSEAKWFFEDIERELETSPHWPRIRHYLVGN TPSPHKIGKSSPPYGEKAFETTVSQGYSEHSGDATPAESWAEAKPEEAAFCCAAASAYPGWNIHGPV CSGCYGAD

MKPVTLYDVAEYAGVSYQTVSRVVNQASHVSAKTREKVEAAMAELNYIPNRVAQQLAGKQSLLIGV ATSSLALHAPSQIVAAIKSRADQLGASVVVSMVERSGVEACKAAVHNLLAQRVSGLIINYPLDDQDAI AVEAACTNVPALFLDVSDQTPINSIIFSHEDGTRLGVEHLVALGHQQIALLAGPLSSVSARLRLAGWH KYLTRNQIQPIAEREGDWSAMSGFQQTMQMLNEGIVPTAMLVANDQMALGAMRAITESGLRVGA DISVVGYDDTEDSSCYIPPLTTIKQDFRLLGQTSVDRLLQLSQGQAVKGNQLLPVSLVKRKTTLAPNTQ TASPRALADSLMQLARQVSRLESG

MASGADSKGDDLSTAILKQKNRPNRLIVDEAINEDNSVVSLSQPKMDELQLFRGDTVLLKGKKRREA VCIVLSDDTCSDEKIRMNRVVRNNLRVRLGDVISIQPCPDVKYGKRIHVLPIDDTVEGITGNLFEVYLKP YFLEAYRPIRKGDIFLVRGGMRAVEFKVVETDPSPYCIVAPDTVIHCEGEPIKREDEEESLNEVGYDDVG GCRKQLAQIKEMVELPLRHPALFKAIGVKPPRGILLYGPPGTGKTLIARAVANETGAFFFLINGPEIMSKL AGESESNLRKAFEEAEKNAPAIIFIDELDAIAPKREKTHGEVERRIVSQLLTLMDGLKQRAHVIVMAATN RPNSIDPALRRFGRFDREVDIGIPDATGRLEILQIHTKNMKLADDVDLEQVANETHGHVGADLAALCS EAALQAIRKKMDLIDLEDETIDAEVMNSLAVTMDDFRWALSQSNPSALRETVVEVPQVTWEDIGGLE DVKRELQELVQYPVEHPDKFLKFGMTPSKGVLFYGPPGCGKTLLAKAIANECQANFISIKGPELLTMWF GESEANVREIFDKARQAAPCVLFFDELDSIAKARGGNIGDGGGAADRVINQILTEMDGMSTKKNVFII GATNRPDIIDPAILRPGRLDQLIYIPLPDEKSRVAILKANLRKSPVAKDVDLEFLAKMTNGFSGADLTEIC

QRACKLAIRESIESEIRRERERQTNPSAMEVEEDDPVPEIRRDHFEEAMRFARRSVSDNDIRKYEMFAQ TLOOSRGFGSFRFPSGNQGGAGPSQGSGGGTGGSVYTEDNDDDLY

MAFSARFPLWLLLGVVLLASVSASFAHSGHSGGEAEDESEESRAQNNPYLFRSNKFLTLFKNQHGSLR LLQRFNEDTEKLENLRDYRVLEYCSKPNTLLLPHHSDSDLLVLVLEGQAILVLVNPDGRDTYKLDQGD AIKIQAGTPFYLINPDNNQNLRILKFAITFRRPGTVEDFFLSSTKRLPSYLSAFSKNFLEASYDSPYDEIEQT LLQEEQEGVIVKMPKDQIQEISKHAQSSSRKTLSSQDKPFNLRSRDPIYSNNYGKLYEITPEKNSQLRDL DILLNCLQMNEGALFVPHYNSRATVILVANEGRAEVELVGLEQQQQQGLESMQLRRYAATLSEGDII VIPSSFPVALKAASDLNMVGIGVNAENNERNFLAGHKENVIRQIPRQVSDLTFPGSGEEVEELLENQK ESYFVDGOPRHIDAGGKARRAHLPNLFRTF

>DP00441

>DP00436

MLGWVQRVLPQPPGTPQKTKQEEEGTEPEPELEPKPETAPEETELEEVSLPPEEPCVGKEVAAVTLGP QGTQETALTPPTSLQAQVSVAPEAHSSPRGWVLTWLRKGVEKVVPQPAHSSRPSQNIAAGLESPDQ QAGAQILGQCGTGGSDEPSEPSRAEDPGPGPWLLRWFEQNLEKMLPQPPKISEGWRDEPTDAALGP EPPGPALEIKPMLQAQESPSLPAPGPPEPEEEPIPEPQPTIQASSLPPPQDSARLMAWILHRLEMALPQ PVIRGKGGEQESDAPVTCDVQTISILPGEQEESHLILEEVDPHWEEDEHQEGSTSTSPRTSEAAPADEE KGEVVEQTPRELPRIQEEKEDEEEEKEDGEEEEEGREKEEEEGGEKEEEEGREKEEEGGEKKEEEGGEKEEEGGEKEEEGGEKEEEGGEKEEEGGEKEEEGGEKEEEDDHSVLLDSYLVPQSEE DQSEESETQDQSEVGGAQTQGEVGGAQALSEESETQDQSEVGGAQDQSEVGGAQAQGEVGGAQ EQDGVGGAQDQSTSHQELQEEALADSSGGSFQMSPFEALQECEALK

MSEKKLETTAQQRKCPEWMNVQNKRCAVEERKACVRKSVFEDDLPFLEFTGSIVYSYDASDCSFLSE DISMSLSDGDVVGFDMEWPPLYNRGKLGKVALIQLCVSESKCYLFHVSSMSVFPQGLKMLLENKAVK KAGVGIEGDOWKLLRDFDIKLKNFVELTDVANKKLKCTETWSLNSLVKHLLGKOLLKDKSIRCSNWSK FPLTEDQKLYAATDAYAGFIIYRNLEILDDTVQRFAINKEEEILLSDMNKQLTSISEEVMDLAKHLPHAFS KLENPRRVSILLKDISENLYSLRRMIIGSTNIETELRPSNNLNLLSFEDSTTGGVQQKQIREHEVLIHVEDE TWDPTLDHLAKHDGEDVLGNKVERKEDGFEDGVEDNKLKENMERACLMSLDITEHELQILEQQSQE EYLSDIAYKSTEHLSPNDNENDTSYVIESDEDLEMEMLKHLSPNDNENDTSYVIESDEDLEMEMLKSLE NLNSGTVEPTHSKCLKMERNLGLPTKEEEEDDENEANEGEEDDDKDFLWPAPNEEOVTCLKMYFGH SSFKPVQWKVIHSVLEERRDNVAVMATGYGKSLCFQYPPVYVGKIGLVISPLISLMEDQVLQLKMSNI PACFLGSAQSENVLTDIKLGKYRIVYVTPEYCSGNMGLLQQLEADIGITLIAVDEAHCISEWGHDFRDS FRKLGSLKTALPMVPIVALTATASSSIREDIVRCLNLRNPQITCTGFDRPNLYLEVRRKTGNILQDLQPFL VKTSSHWEFEGPTIIYCPSRKMTQQVTGELRKLNLSCGTYHAGMSFSTRKDIHHRFVRDEIQCVIATIAF GMGINKADIRQVIHYGAPKDMESYYQEIGRAGRDGLQSSCHVLWAPADINLNRHLLTEIRNEKFRLYK LKMMAKMEKYLHSSRCRRQIILSHFEDKQVQKASLGIMGTEKCCDNCRSRLDHCYSMDDSEDTSWD FGPQAFKLLSAVDILGEKFGIGLPILFLRGSNSQRLADQYRRHSLFGTGKDQTESWWKAFSRQLITEGFL VEVSRYNKFMKICALTKKGRNWLHKANTESQSLILQANEELCPKKFLLPSSKTVSSGTKEHCYNQVPVE LSTEKKSNLEKLYSYKPCDKISSGSNISKKSIMVQSPEKAYSSSQPVISAQEQETQIVLYGKLVEARQKHA NKMDVPPAILATNKILVDMAKMRPTTVENVKRIDGVSEGKAAMLAPLLEVIKHFCOTNSVOTDLFSST KPOEEOKTSLVAKNKICTLSOSMAITYSLFOEKKMPLKSIAESRILPLMTIGMHLSOAVKAGCPLDLERA GLTPEVQKIIADVIRNPPVNSDMSKISLIRMLVPENIDTYLIHMAIEILKHGPDSGLQPSCDVNKRRCFP GSEEICSSSKRSKEEVGINTETSSAERKRRLPVWFAKGSDTSKKLMDKTKRGGLF

>DP00444

MDVTIQHPWFKRTLGPFYPSRLFDQFFGEGLFEYDLLPFLSSTISPYYRQSLFRTVLDSGISEVRSDRDKF VIFLDVKHFSPEDLTVKVQDDFVEIHGKHNERQDDHGYISREFHRRYRLPSNVDQSALSCSLSADGML TFCGPKIQTGLDATHAERAIPVSREEKPTSAPS

>DP00448

MAGGEDRGDGEPVSVVTVRVQYLEDTDPFACANFPEPRRAPTCSLDGALPLGAQIPAVHRLLGAPLK LEDCALOVSPSGYYLDTELSLEEQREMLEGFYEEISKGRKPTLILRTOLSVRVNAILEKLYSSSGPELRRSL FSLKQIFQEDKDLVPEFVHSEGLSCLIRVGAAADHNYQSYILRALGQLMLFVDGMLGVVAHSDTIQW LYTLCASLSRLVVKTALKLLLVFVEYSENNAPLFIRAVNSVASTTGAPPWANLVSILEEKNGADPELLVYT VTLINKTLAALPDQDSFYDVTDALEQQGMEALVQRHLGTAGTDVDLRTQLVLYENALKLEDGDIEEA PGAGGRRERRKPSSEEGKRSRRSLEGGGCPARAPEPGPTGPASPVGPTSSTGPALLTGPASSPVGPPS GLQASVNLFPTISVAPSADTSSERSIYKARFLENVAAAETEKQVALAQGRAETLAGAMPNEAGGHPD AROLWDSPETAPAARTPOSPAPCVLLRAORSLAPEPKEPLIPASPKAEPIWELPTRAPRLSIGDLDFSDL GEDEDODMLNVESVEAGKDIPAPSPPLPLLSGVPPPPPPPPPPIKGPFPPPPPPLPLAAPLPHSVPDSSA LPTKRKTVKLFWRELKLAGGHGVSASRFGPCATLWASLDPVSVDTARLEHLFESRAKEVLPSKKAGEG RRTMTTVLDPKRSNAINIGLTTLPPVHVIKAALLNFDEFAVSKDGIEKLLTMMPTEEERQKIEEAQLANP DIPLGPAENFLMTLASIGGLAARLQLWAFKLDYDSMEREIAEPLFDLKVGMEQLVQNATFRCILATLLA VGNFLNGSQSSGFELSYLEKVSEVKDTVRRQSLLHHLCSLVLQTRPESSDLYSEIPALTRCAKVDFEQLT ENLGOLERRSRAAEESLRSLAKHELAPALRARLTHFLDOCARRVAMLRIVHRRVCNRFHAFLLYLGYTP QAAREVRIMQFCHTLREFALEYRTCRERVLQQQQKQATYRERNKTRGRMITETEKFSGVAGEAPSNP SVPVAVSSGPGRGDADSHASMKSLLTSRPEDTTHNRRSRGMVQSSSPIMPTVGPSTASPEEPPGSSL PSDTSDEIMDLLVQSVTKSSPRALAARERKRSRGNRKSLRRTLKSGLGDDLVQALGLSKGPGLE

>DP00451

MTADELVFFVNGKKVVEKNADPETTLLAYLRRKLGLRGTKLGCGEGGCGACTVMLSKYDRLODKIIHF SANACLAPICTLHHVAVTTVEGIGSTKTRLHPVQERIAKSHGSQCGFCTPGIVMSMYTLLRNQPEPTV EEIEDAFOGNLCRCTGYRPILOGFRTFAKNGGCCGGNGNNPNCCMNOKKDHTVTLSPSLFNPEEFM PLDPTQEPIFPPELLRLKDVPPKQLRFEGERVTWIQASTLKELLDLKAQHPEAKLVVGNTEIGIEMKFKN OLFPMIICPAWIPELNAVEHGPEGISFGAACALSSVEKTLLEAVAKLPTOKTEVFRGVLEOLRWFAGKO VKSVASLGGNIITASPISDLNPVFMASGTKLTIVSRGTRRTVPMDHTFFPSYRKTLLGPEEILLSIEIPYSRE DEFFSAFKOASRREDDIAKVTCGMRVLFOPGSMOVKELALCYGGMADRTISALKTTOKOLSKFWNEK LLQDVCAGLAEELSLSPDAPGGMIEFRRTLTLSFFFKFYLTVLKKLGKDSKDKCGKLDPTYTSATLLFQK HPPANIQLFQEVPNGQSKEDTVGRPLPHLAAAMQASGEAVYCDDIPRYENELFLRLVTSTRAHAKIKS IDVSEAQKVPGFVCFLSADDIPGSNETGLFNDETVFAKDTVTCVGHIIGAVVADTPEHAERAAHVVKV TYEDLPAIITIEDAIKNNSFYGSELKIEKGDLKKGFSEADNVVSGELYIGGQDHFYLETHCTIAIPKGEEGE MELFVSTONAMKTOSFVAKMLGVPVNRILVRVKRMGGGFGGKETRSTLVSVAVALAAYKTGHPVRC MLDRNEDMLITGGRHPFLARYKVGFMKTGTIVALEVDHYSNAGNSRDLSHSIMERALFHMDNCYKIP NIRGTGRLCKTNLSSNTAFRGFGGPOALFIAENWMSEVAVTCGLPAEEVRWKNMYKEGDLTHFNOR LEGFSVPRCWDECLKSSQYYARKSEVDKFNKENCWKKRGLCIIPTKFGISFTVPFLNQAGALIHVYTDG SVLVSHGGTEMGQGLHTKMVQVASKALKIPISKIYISETSTNTVPNSSPTAASVSTDIYGQAVYEACQT ILKRLEPFKKKNPDGSWEDWVMAAYODRVSLSTTGFYRTPNLGYSFETNSGNAFHYFTYGVACSEVEI DCLTGDHKNLRTDIVMDVGSSLNPAIDIGOVEGAFVQGLGLFTLEELHYSPEGSLHTRGPSTYKIPAFG SIPTEFRVSLLRDCPNKKAIYASKAVGEPPLFLGASVFFAIKDAIRAARAQHTNNNTKELFRLDSPATPEK **IRNACVDKFTTLCVTGAPGNCKPWSLR**

>DP00455

MIGGLFIYNHKGEVLISRVYRDDIGRNAVDAFRVNVIHAROOVRSPVTNIARTSFFHVKRSNIWLAAV

TKQNVNAAMVFEFLYKMCDVMAAYFGKISEENIKNNFVLIYELLDEILDFGYPQNSETGALKTFITQQG IKSQHQTKEEQSQITSQVTGQIGWRREGIKYRRNELFLDVLESVNLLMSPQGQVLSAHVSGRVVMKS YLSGMPECKFGMNDKIVIEKQGKGTADETSKSGKQSIAIDDCTFHQCVRLSKFDSERSISFIPPDGEFEL MRYRTTKDIILPFRVIPLVREVGRTKLEVKVVIKSNFKPSLLAQKIEVRIPTPLNTSGVQVICMKGKAKYKA SENAIVWKIKRMAGMKESQISAEIELLPTNDKKKWARPPISMNFEVPFAPSGLKVRYLKVFEPKLNYSD HDVIKWVRYIGRSGIYETR

MADNLPSDFDVIVIGTGLPESIIAAACSRSGQRVLHVDSRSYYGGNWASFSFSGLLSWLKEYQENND VVTENSMWQEQILENEEAIPLSSKDKTIQHVEVFCYASQDLHKDVEEAGALQKNHASVTSAQSAEAA EAAETSCLPTAVEPLSMGSCEIPAEQSQCPGPESSPEVNDAEATGKKENSDAKSSTEEPSENVPKVQD NTETPKKNRITYSQIIKEGRRFNIDLVSQLLYSRGLLIDLLIKSNVSRYAEFKNITRILAFREGTVEQVPCSR ADVFNSKQLTMVEKRMLMKFLTFCVEYEEHPDEYRAYEGTTFSEYLKTQKLTPNLQYFVLHSIAMTSET TSCTVDGLKATKKFLQCLGRYGNTPFLFPLYGQGELPQCFCRMCAVFGGIYCLRHSVQCLVVDKESRK CKAVIDQFGQRIISKHFIIEDSYLSENTCSRVQYRQISRAVLITDGSVLKTDADQQVSILAVPAEEPGSFG VRVIELCSSTMTCMKGTYLVHLTCMSSKTAREDLERVVQKLFTPYTEIEAENEQVEKPRLLWALYFNMR DSSDISRDCYNDLPSNVYVCSGPDSGLGNDNAVKQAETLFQQICPNEDFCPAPPNPEDIVLDGDSS OOEVPESSVTPETNSETPKESTVLGNPEEPS

>DP00459

MDPLSELQDDLTLDDTSEALNQLKLASIDEKNWPSDEMPDFPKSDDSKSSSPELVTHLKWDDPYYDI ARHQIVEVAGDDKYGRKIIVFSACRMPPSHQLDHSKLLGYLKHTLDQYVESDYTLLYLHHGLTSDNKP SLSWLRDAYREFDRKYKKNIKALYIVHPTMFIKTLLILFKPLISFKFGQKIFYVNYLSELSEHVKLEQLGIPR QVLKYDDFLKSTQKSPATAPKPMPPRPPLPNQQFGVSLQHLQEKNPEQEPIPIVLRETVAYLQAHALT TEGIFRRSANTQVVREVQQKYNMGLPVDFDQYNELHLPAVILKTFLRELPEPLLTFDLYPHVVGFLNID ESQRVPATLQVLQTLPEENYQVLRFLTAFLVQISAHSDQNKMTNTNLAVVFGPNLLWAKDAAITLKAI NPINTFTKFLLDHOGELFPSPDPSG

MGYPEVERRELLPAAAPRERGSQGCGCGGAPARAGEGNSCLLFLGFFGLSLALHLLTLCCYLELRSELR RERGAESRLGGSGTPGTSGTLSSLGGLDPDSPITSHLGQPSPKQQPLEPGEAALHSDSQDGHQMALL NFFFPDEKPYSEEESRRVRRNKRSKSNEGADGPVKNKKKGKKAGPPGPNGPPGPPGPPGPPGPPGIP GIPGIPGTTVMGPPGPPGPPGPQGPPGLQGPSGAADKAGTRENQPAVVHLQGQGSAIQVKNDLSG GVLNDWSRITMNPKVFKLHPRSGELEVLVDGTYFIYSQVEVYYINFTDFASYEVVVDEKPFLQCTRSIET GKTNYNTCYTAGVCLLKAROKIAVKMVHADISINMSKHTTFFGAIRLGEAPA

>DP00461

MGSNGADNAHNNAFGGGKNPGIGNTSGAGSNGSASSNRGNSNGWSWSNKPHKNDGFHSDGSY HITFHGDNNSKPKPGGNSGNRGNNGDGASAKVGEITITPDNSKPGRYISSNPEYSLLAKLIDAESIKGT EVYTFHTRKGQYVKVTVPDSNIDKMRVDYVNWKGPKYNNKLVKRFVSQFLLFRKEEKEKNEKEALLKA SELVSGMGDKLGEYLGVKYKNVAKEVANDIKNFHGRNIRSYNEAMASLNKVLANPKMKVNKSDKDA IVNAWKQVNAKDMANKIGNLGKAFKVADLAIKVEKIREKSIEGYNTGNWGPLLLEVESWIIGGVVAG VAISLFGAVLSFLPISGLAVTALGVIGIMTISYLSSFIDANRVSNINNIISSVI

>DP00463

MLLLLLVPLFLRPLGAGGAQTPNATSEGCQIIHPPWEGGIRYRGLTRDQVKAINFLPVDYEIEYVCRGE REVVGPKVRKCLANGSWTDMDTPSRCVRICSKSYLTLENGKVFLTGGDLPALDGARVEFRCDPDFHL VGSSRSVCSQGQWSTPKPHCQVNRTPHSERRAVYIGALFPMSGGWPGQACQPAVEMALEDVNS RRDILPDYELKLIHHDSKCDPGQATKYLYELLYNDPIKIILMPGCSSVSTLVAEAARMWNLIVLSYGSSS PALSNRQRFPTFFRTHPSATLHNPTRVKLFEKWGWKKIATIQQTTEVFTSTLDDLEERVKEAGIEITFRQ SFFSDPAVPVKNLKRQDARIIVGLFYETEARKVFCEVYKERLFGKKYVWFLIGWYADNWFKTYDPSINC TVEEMTEAVEGHITTEIVMLNPANTRSISNMTSQEFVEKLTKRLKRHPEETGGFQEAPLAYDAIWALAL ALNKTSGGGGRSGVRLEDFNYNNQTITDQIYRAMNSSSFEGVSGHVVFDASGSRMAWTLIEQLQGG SYKKIGYYDSTKDDLSWSKTDKWIGGSPPADQTLVIKTFRFLSQKLFISVSVLSSLGIVLAVVCLSFNIYN SHVRYIQNSQPNLNNLTAVGCSLALAAVFPLGLDGYHIGRSQFPFVCQARLWLLGLGFSLGYGSMFT KIWWVHTVFTKKEEKKEWRKTLEPWKLYATVGLLVGMDVLTLAIWQIVDPLHRTIETFAKEEPKEDIDV SILPQLEHCSSKKMNTWLGELWSFAVSSDVQRRATVGGDSPICVWPAPESIFYGYKGLLLLLGIFLAYE TKSVSTEKINDHRAVGMAIYNVAVLCLITAPVTMILSSQQDAAFAFASLAIVFSSYITLVVLFVPKMRRLI TRGEWQSETQDTMKTGSSTNNNEEEKSRLLEKENRELEKIIAEKEERVSELRHQLQSRQQLRSRRHPPT PPDPSGGLPRGPSEPPDRLSCDGSRVHLLY

>DP00464

MDNMSITNTPTSNDACLSIVHSLMCHRQGGESETFAKRAIESLVKKLKEKKDELDSLITAITTNGAHPS KCVTIQRTLDGRLQVAGRKGFPHVIYARLWRWPDLHKNELKHVKYCQYAFDLKCDSVCVNPYHYER VVSPGIDLSGLTLQSNAPSSMMVKDEYVHDFEGQPSLSTEGHSIQTIQHPPSNRASTETYSTPALLAPS ESNATSTANFPNIPVASTSQPASILGGSHSEGLLQIASGPQPGQQQNGFTGQPATYHHNSTTTWTGS RTAPYTPNLPHHQNGHLQHHPPMPPHPGHYWPVHNELAFQPPISNHPAPEYWCSIAYFEMDVQV GETFKVPSSCPIVTVDGYVDPSGGDRFCLGQLSNVHRTEAIERARLHIGKGVQLECKGEGDVWVRCLS DHAVFVQSYYLDREAGRAPGDAVHKIYPSAYIKVFDLRQCHRQMQQQAATAQAAAAAQAAAVAG NIPGPGSVGGIAPAISLSAAAGIGVDDLRRLCILRMSFVKGWGPDYPRQSIKETPCWIEIHLHRALQLLD EVLHTMPIADPQPL

>DP00466

>DP00468

MFQAAERPQEWAMEGPRDGLKKERLLDDRHDSGLDSMKDEEYEQMVKELQEIRLEPQEVPRGSEP WKQQLTEDGDSFLHLAIIHEEKALTMEVIRQVKGDLAFLNFQNNLQQTPLHLAVITNQPEIAEALLGA

GCDPELRDFRGNTPLHLACEQGCLASVGVLTQSCTTPHLHSILKATNYNGHTCLHLASIHGYLGIVELL VSLGADVNAQEPCNGRTALHLAVDLQNPDLVSLLLKCGADVNRVTYQGYSPYQLTWGRPSTRIQQ QLGQLTLENLQMLPESEDEESYDTESEFTEFTEDELPYDDCVFGGQRLT

>DP00471

MNRTAFCCLSLTTALILTACSSGGGGVAADIGAGLADALTAPLDHKDKGLQSLTLDQSVRKNEKLKLA AQGAEKTYGNGDSLNTGKLKNDKVSRFDFIRQIEVDGQLITLESGEFQVYKQSHSALTAFQTEQIQDS EHSGKMVAKRQFRIGDIAGEHTSFDKLPEGGRATYRGTAFGSDDAGGKLTYTIDFAAKQGNGKIEHLK SPELNVDLAAADIKPDGKRHAVISGSVLYNQAEKGSYSLGIFGGKAQEVAGSAEVKTVNGIRHIGLAA

>DP00472

MAMRELVEAECGGANPLMKLAGHFTQDKALRQEGLRPGPWPPGAPASEAASKPLGVASEDELVAE FLQDQNAPLVSRAPQTFKMDDLLAEMQQIEQSNFRQAPQRAPGVADLALSENWAQEFLAAGDAV DVTQDYNETDWSQEFISEVTDPLSVSPARWAEEYLEQSEEKLWLGEPEGTATDRWYDEYHPEEDLQ HTASDFVAKVDDPKLANSEFLKFVRQIGEGQVSLESGAGSGRAQAEQWAAEFIQQQGTSDAWVDQ FTRPVNTSALDMEFERAKSAIELQAELEEMAKRDAEAHPWLSDYDDLTSATYDKGYQFEEENPLRDH PQPFEEGLRRLQEGDLPNAVLLFEAAVQQDPKHMEAWQYLGTTQAENEQELLAISALRRCLELKPDN QTALMALAVSFTNESLQRQACETLRDWLRYTPAYAHLVTPAEEGAGGAGLGPSKRILGSLLSDSLFLE VKELFLAAVRLDPTSIDPDVQCGLGVLFNLSGEYDKAVDCFTAALSVRPNDYLLWNKLGATLANGNQ SEEAVAAYRRALELQPGYIRSRYNLGISCINLGAHREAVEHFLEALNMQRKSRGPRGEGGAMSENIWS TLRLALSMLGQSDAYGAADARDLSTLLTMFGLP

>DP00473

MAATVATAAAVAPAPAPGTDSASSVHWFRKGLRLHDNPALLAAVRGARCVRCVYILDPWFAASSSV GINRWRFLLQSLEDLDTSLRKLNSRLFVVRGQPADVFPRLFKEWGVTRLTFEYDSEPFGKERDAAIMK MAKEAGVEVVTENSHTLYDLDRIIELNGQKPPLTYKRFQAIISRMELPKKPVGLVTSQQMESCRAEIQE NHDETYGVPSLEELGFPTEGLGPAVWQGGETEALARLDKHLERKAWVANYERPRMNANSLLASPTG LSPYLRFGCLSCRLFYYRLWDLYKKVKRNSTPPLSLFGQLLWREFFYTAATNNPRFDRMEGNPICIQIP

WDRNPEALAKWAEGKTGFPWIDAIMTQLRQEGWIHHLARHAVACFLTRGDLWVSWESGVRVFDEL LLDADFSVNAGSWMWLSCSAFFQQFFHCYCPVGFGRRTDPSGDYIRRYLPKLKAFPSRYIYEPWNAP ESIQKAAKCIIGVDYPRPIVNHAETSRLNIERMKQIYQQLSRYRGLCLLASVPSCVEDLSHPVAEPSSSQ AGSMSSAGPRPLPSGPASPKRKLEAAEEPPGEELSKRARVAELPTPELPSKD

MSGSVSGCGSGGCSIVWFRRDLRVEDNPALAAAVRAGPVIALFVWAPEEEGHYHPGRVSRWWLKN SLAQLDSSLRSLGTCLITKRSTDSVASLLDVVKSTGASQIFFNHLYDPLSLVRDHRAKDVLTAQGIAVRS FNADLLYEPWEVTDELGRPFSMFAAFWERCLSMPYDPESPLLPPKKIISGDVSKCVADPLVFEDDSEKG SNALLARAWSPGWSNGDKALTTFINGPLLEYSKNRRKADSATTSFLSPHLHFGEVSVRKVFHLVRIKQ VAWANEGNEAGEESVNLFLKSIGLREYSRYISFNHPYSHERPLLGHLKFFPWAVDENYFKAWRQGRT GYPLVDAGMRELWATGWLHDRIRVVVSSFFVKVLQLPWRWGMKYFWDTLLDADLESDALGWQYIT GTLPDSREFDRIDNPQFEGYKFDPNGEYVRRWLPELSRLPTDWIHHPWNAPESVLQAAGIELGSNYPL PIVGLDEAKARLHEALSQMWQLEAASRAAIENGSEEGLGDSAEVEEAPIEFPRDITMEETEPTRLNPNR RYEDQMVPSITSSLIRPEEDEESSLNLRNSVGDSRAEVPRNMVNTNQAQQRRAEPASNQVTAMIPEF NIRIVAESTEDSTAESSSSGRRERSGGIVPEWSPGYSEQFPSEENRIGGGSTTSSYLQNHHEILNWRRLS OT

>DP00482

MPREFKSFGSTEKSLLSKGHGEPSYSEIYAEPENFLEIEVHNPKTHIPNGMDSKGMFTDYEIICRTNLPSF HKRVSKVRRRYSDFEFFRKCLIKEISMLNHPKVMVPHLPGKILLSNRFSNEVIEERRQGLNTWMQSVA GHPLLQSGSKVLVRFIEAEKFV

>DP00483

MSDSNQGNNQQNYQQYSQNGNQQQGNNRYQGYQAYNAQAQPAGGYYQNYQGYSGYQQG GYQQYNPDAGYQQQYNPQGGYQQYNPQGGYQQQFNPQGGRGNYKNFNYNNNLQGYQAGFQ PQSQGMSLNDFQKQQKQAAPKPKKTLKLVSSSGIKLANATKKVDTKPAESDKKEEEKSAETKEPTKEP TKVEEPVKKEEKPVQTEEKTEEKSELPKVEDLKISESTHNTNNANVTSADALIKEQEEEVDDEVVNDMF GGKDHVSLIFMGHVDAGKSTMGGNLLYLTGSVDKRTIEKYEREAKDAGRQGWYLSWVMDTNKEER NDGKTIEVGKAYFETEKRRYTILDAPGHKMYVSEMIGGASQADVGVLVISARKGEYETGFERGGQTRE HALLAKTQGVNKMVVVVNKMDDPTVNWSKERYDQCVSNVSNFLRAIGYNIKTDVVFMPVSGYSG ANLKDHVDPKECPWYTGPTLLEYLDTMNHVDRHINAPFMLPIAAKMKDLGTIVEGKIESGHIKKGQST LLMPNKTAVEIQNIYNETENEVDMAMCGEQVKLRIKGVEEEDISPGFVLTSPKNPIKSVTKFVAQIAIVE LKSIIAAGFSCVMHVHTAIEEVHIVKLLHKLEKGTNRKSKKPPAFAKKGMKVIAVLETEAPVCVETYQDY POLGRFTLRDOGTTIAIGKIVKIA

>DP00484

MPSLMSFGSCQWIDOGRFSRSLYRNFKTFKLHEMHGLCMPNLLLNPDIHGDRIIFVCCDDLWEHDLK SGSTRKIVSNLGVINNARFFPDGRKIAIRVMRGSSLNTADLYFYNGENGEIKRITYFSGKSTGRRMFTDV AGFDPDGNLIISTDAMQPFSSMTCLYRVENDGINFVPLNLGPATHILFADGRRVIGRNTFELPHWKGY RGGTRGKIWIEVNSGAFKKIVDMSTHVSSPVIVGHRIYFITDIDGFGQIYSTDLDGKDLRKHTSFTDYYP RHLNTDGRRILFSKGGSIYIFNPDTEKIEKIEIGDLESPEDRIISIPSKFAEDFSPLDGDLIAFVSRGQAFIQD VSGTYVLKVPEPLRIRYVRRGGDTKVAFIHGTREGDFLGIYDYRTGKAEKFEENLGNVFAMGVDRNGK FAVVANDRFEIMTVDLETGKPTVIERSREAMITDFTISDNSRFIAYGFPLKHGETDGYVMQAIHVYDME GRKIFAATTENSHDYAPAFDADSKNLYYLSYRSLDPSPDRVVLNFSFEVVSKPFVIPLIPGSPNPTKLVPR SMTSEAGEYDLNDMYKRSSPINVDPGDYRMIIPLESSILIYSVPVHGEFAAYYQGAPEKGVLLKYDVKT RKVTEVKNNLTDLRLSADRKTVMVRKDDGKIYTFPLEKPEDERTVETDKRPLVSSIHEEFLQMYDEAWK LARDNYWNEAVAKEISERIYEKYRNLVPLCKTRYDLSNVIVEMQGEYRTSHSYEMGGTFTDKDPFRSG RIACDFKLDGDHYVVAKAYAGDYSNEGEKSPIFEYGIDPTGYLIEDIDGETVGAGSNIYRVLSEKAGTSA RIRLSGKGGDKRDLMIDILDDDRFIRYRSWVEANRRYVHERSKGTIGYIHIPDMGMMGLNEFYRLFINE SSYQGLIVDVRFNGGGFVSQLIIEKLMNKRIGYDNPRRGTLSPYPTNSVRGKIIAITNEYAGSDGDIFSFS FKKLGLGKLIGTRTWGGVVGITPKRRLIDGTVLTQPEFAFWFRDAGFGVENYGVDPDVEIEYAPHDYLS GKDPQIDYAIDALIEELRNWNEELPQRP

>DP00486

MALSRGLPRELAEAVAGGRVLVVGAGGIGCELLKNLVLTGFSHIDLIDLDTIDVSNLNRQFLFQKKHVG RSKAQVAKESVLQFYPKANIVAYHDSIMNPDYNVEFFRQFILVMNALDNRAARNHVNRMCLAADV PLIESGTAGYLGQVTTIKKGVTECYECHPKPTQRTFPGCTIRNTPSEPIHCIVWAKYLFNQLFGEEDADQ EVSPDRADPEAAWEPTEAEARARASNEDGDIKRISTKEWAKSTGYDPVKLFTKLFKDDIRYLLTMDKL WRKRKPPVPLDWAEVQSQGEETNASDQQNEPQLGLKDQQVLDVKSYARLFSKSIETLRVHLAEKGD GAELIWDKDDPSAMDFVTSAANLRMHIFSMNMKSRFDIKSMAGNIIPAIATTNAVIAGLIVLEGLKILS GKIDQCRTIFLNKQPNPRKKLLVPCALDPPNPNCYVCASKPEVTVRLNVHKVTVLTLQDKIVKEKFAM VAPDVQIEDGKGTILISSEEGETEANNHKKLSEFGIRNGSRLQADDFLQDYTLLINILHSEDLGKDVEFEV VGDAPEKVGPKQAEDAAKSITNGSDDGAQPSTSTAQEQDDVLIVDSDEEDSSNNADVSEEERSRKR KLDEKENLSAKRSRIEQKEELDDVIAL

>DP00488

>DP00491

MSVDNWLLHPLWGQTFLLLLSVAVAQAHWPSEPSEAVRDWKNQLEASMHSVLSDFQEAVPTVVGI PDGTAVVGRSFRVSIPTDLIASSGEIIKVSAAGKEALPSWLHWDPHSHILEGLPLDTDKGVHYISVSAAR LGANGSHVPQTSSVFSIEVYPEDHNEPQSVRAASSDPGEVVPSACAADEPVTVLTVILDADLTKMTPK QRIDLLNRMQSFSEVELHNMKLVPVVNNRLFDMSAFMAGPGNAKKVVENGALLSWKLGCSLNQN SVPDIRGVETPAREGAMSAQLGYPVVGWHIANKKPTLPKRLRRQIHATPTPVTAIGPPTTAIQEPPSRI

VPTPTSPAIAPPTETMAPPVRDPVPGKPTVTIRTRGAIIQTPTLGPIQPTRVSEAGTTVPGQIRPTLTIPGY VEPTAVITPPTTTTKKPRVSTPKPATPSTDSSTTTTRRPTKKPRTPRPVPRVTTKAPITRLETASPPTRIRTT TSGVPRGGEPNQRPELKNHIDRVDAWVGTYFEVKIPSDTFYDNEDTTTDKLKLTLKLREQQLVGEKSW VQFNSNSQLMYGLPDSSHVGKHEYFMHATDKGGLSAVDAFEIHVHKRPQGDKAPARFKARLAGDP APVVNDIHKKIALVKKLAFAFGDRNCSSITLONITRGSIVVEWTNNTLPLEPCPKEOIIGLSRRIADENGK PRPAFSNALEPDFKALSIAVTGSGSCRHLQFIPVAPPSPGSSAAPATEVPDRDPEKSSEDDVYLHTVIPA VVVAAILLIAGIIAMICYRKKRKGKLTLEDQATFIKKGVPIIFADELDDSKPPPSSSMPLILQEEKAPLPPPE YPNQSMPETTPLNQDTVGEYTPLRDEDPNAPPYQPPPFTAPMEGKGSRPKNMTPYRSPPPYVP >DP00492

MEVQLGLGRVYPRPPSKTYRGAFQNLFQSVREVIQNPGPRHPEAASAAPPGASLLLLQQQQQQQQ OOOOOOOOOOETSPROOOOOGEDGSPOAHRRGPTGYLVLDEEOOPSOPOSALECHPE RGCVPEPGAAVAASKGLPQQLPAPPDEDDSAAPSTLSLLGPTFPGLSSCSADLKDILSEASTMQLLQQ QQQEAVSEGSSSGRAREASGAPTSSKDNYLGGTSTISDNAKELCKAVSVSMGLGVEALEHLSPGEQL RGDCMYAPLLGVPPAVRPTPCAPLAECKGSLLDDSAGKSTEDTAEYSPFKGGYTKGLEGESLGCSGSA AAGSSGTLELPSTLSLYKSGALDEAAAYOSRDYYNFPLALAGPPPPPPPPHPHARIKLENPLDYGSAW AAAAAOCRYGDLASLHGAGAAGPGSGSPSAAASSSWHTLFTAEEGOLYGPCGGGGGGGGGGGGG GGGGGGGGGGAGAVAPYGYTRPPQGLAGQESDFTAPDVWYPGGMVSRVPYPSPTCVKSEMGP WMDSYSGPYGDMRLETARDHVLPIDYYFPPQKTCLICGDEASGCHYGALTCGSCKVFFKRAAEGKQ KYLCASRNDCTIDKFRRKNCPSCRLRKCYEAGMTLGARKLKKLGNLKLQEEGEASSTTSPTEETTQKLT VSHIEGYECQPIFLNVLEAIEPGVVCAGHDNNQPDSFAALLSSLNELGERQLVHVVKWAKALPGFRNL HVDDOMAVIOYSWMGLMVFAMGWRSFTNVNSRMLYFAPDLVFNEYRMHKSRMYSOCVRMRHL SQEFGWLQITPQEFLCMKALLLFSIIPVDGLKNQKFFDELRMNYIKELDRIIACKRKNPTSCSRRFYQLTK LLDSVQPIARELHQFTFDLLIKSHMVSVDFPEMMAEIISVQVPKILSGKVKPIYFHT

>DP00499

MSGVRPPIMNGPMHPRPLVALLDGRDCTVEMPILKDVATVAFCDAQSTQEIHEKVLNEAVGALMYH TITLTREDLEKFKALRIIVRIGSGFDNIDIKSAGDLGIAVCNVPAASVEETADSTLCHILNLYRRTTWLHQA LREGTRVQSVEQIREVASGAARIRGETLGIIGLGRVGQAVALRAKAFGFNVLFYDPYLSDGIERALGLQR VSTLQDLLFHSDCVTLHCGLNEHNHHLINDFTVKQMRQGAFLVNTARGGLVDEKALAQALKEGRIR GAALDVHESEPFSFSQGPLKDAPNLICTPHAAWYSEQASIEMREEAAREIRRAITGRIPDSLKNCVNKD HLTAATHWASMDPAVVHPELNGAAYSRYPPGVVSVAPTGIPAAVEGIVPSAMSLSHGLPPVAHPPH APSPGOTVKPEADRDHTTDO

>DP00502

MPGGPGVLQALPATIFLLFLLSAVYLGPGCQALWMHKVPASLMVSLGEDAHFQCPHNSSNNANVT WWRVLHGNYTWPPEFLGPGEDPNGTLIIQNVNKSHGGIYVCRVQEGNESYQQSCGTYLRVRQPPP RPFLDMGEGTKNRIITAEGIILLFCAVVPGTLLLFRKRWQNEKLGLDAGDEYEDENLYEGLNLDDCSMY EDISRGLOGTYODVGSLNIGDVOLEK

MAGILFEDIFDVKDIDPEGKKFDRVSRLHCESESFKMDLILDVNIQIYPVDLGDKFRLVIASTLYEDGTLD DGEYNPTDDRPSRADQFEYVMYGKVYRIEGDETSTEAATRLSAYVSYGGLLMRLQGDANNLHGFEV DSRVYLLMKKLA

MEHSTFLSGLVLATLLSQVSPFKIPIEELEDRVFVNCNTSITWVEGTVGTLLSDITRLDLGKRILDPRGIYR CNGTDIYKDKESTVQVHYRMCQSCVELDPATVAGIIVTDVIATLLLALGVFCFAGHETGRLSGAADTQ ALLRNDQVYQPLRDRDDAQYSHLGGNWARN

>DP00506

MQSGTHWRVLGLCLLSVGVWGQDGNEEMGGITQTPYKVSISGTTVILTCPQYPGSEILWQHNDKNI GGDEDDKNIGSDEDHLSLKEFSELEQSGYYVCYPRGSKPEDANFYLYLRARVCENCMEMDVMSVATI VIVDICITGGLLLLVYYWSKNRKAKAKPVTRGAGAGGRQRGQNKERPPPVPNPDYEPIRKGQRDLYSG LNQRR

>DP00511

MMCGAPSATQPATAETQHIADQVRSQLEEKENKKFPVFKAVSFKSQVVAGTNYFIKVHVGDEDFVH LRVFQSLPHENKPLTLSNYQTNKAKHDELTY

>DP00514

MVDLKRLRQEPEVFHRAIREKGVALDLEALLALDREVQELKKRLQEVQTERNQVAKRVPKAPPEEKEA LIARGKALGEEAKRLEEALREKEARLEALLLQVPLPPWPGAPVGGEEANREIKRVGGPPEFSFPPLDHVA LMEKNGWWEPRISQVSGSRSYALKGDLALYELALLRFAMDFMARRGFLPMTLPSYAREKAFLGTGHF PAYRDQVWAIAETDLYLTGTAEVVLNALHSGEILPYEALPLRYAGYAPAFRSEAGSFGKDVRGLMRVH QFHKVEQYVLTEASLEASDRAFQELLENAEEILRLLELPYRLVEVATGDMGPGKWRQVDIEVYLPSEGR YRETHSCSALLDWQARRANLRYRDPEGRVRYAYTLNNTALATPRILAMLLENHQLQDGRVRVPQALI PYMGKEVLEPC

>DP00520

MGKLQSKHAAAARKRRESPEGDSFVASAYASGRKGAEEAERRARDKQELPNGDPKEGPFREDQCPL QVALPAEKAEGREHPGQLLSADDGERAANREGPRGPGGQRLNIDALQCDVSVEEDDRQEWTFTLY DFDNCGKVTREDMSSLMHTIYEVVDASVNHSSGSSKTLRVKLTVSPEPSSKRKEGPPAGQDREPTRC RMEGELAEEPRVADRRLSAHVRRPSTDPQPCSERGPYCVDENTERRNHYLDLAGIENYTSRFGPGSPP VQAKQEPQGRASHLQARSRSQEPDTHAVHHRRSQVLVEHVVPASEPAARALDTQPRPKGPEKQFL KSPKGSGKPPGVPASSKSGKAFSYYLPAVLPPQAPQDGHHLPQPPPPYGHKRYRQKGREGHSPLKA PHAQPATVEHEVVRDLPPTPAGEGYAVPVIQRHEHHHHHHHHHHHHHHHHHH

>DP00525

| MEDLDQSPLVSSSDSPPRPQPAFKYQFVREPEDEEEEEEEEEEDEDEDLEELEVLERKPAAGLSAAPVPT |
|---|
| APAAGAPLMDFGNDFVPPAPRGPLPAAPPVAPERQPSWDPSPVSSTVPAPSPLSAAAVSPSKLPEDD |
| EPPARPPPPPPASVSPQAEPVWTPPAPAPAAPPSTPAAPKRRGSSGSVDETLFALPAASEPVIRSSAEN |
| MDLKEQPGNTISAGQEDFPSVLLETAASLPSLSPLSAASFKEHEYLGNLSTVLPTEGTLQENVSEASKEV |
| SEKAKTLLIDRDLTEFSELEYSEMGSSFSVSPKAESAVIVANPREEIIVKNKDEEEKLVSNNILHNQQELPT |
| ALTKLVKEDEVVSSEKAKDSFNEKRVAVEAPMREEYADFKPFERVWEVKDSKEDSDMLAAGGKIESNL |
| ESKVDKKCFADSLEQTNHEKDSESSNDDTSFPSTPEGIKDRSGAYITCAPFNPAATESIATNIFPLLGDP |
| TSENKTDEKKIEEKKAQIVTEKNTSTKTSNPFLVAAQDSETDYVTTDNLTKVTEEVVANMPEGLTPDLV |
| QEACESELNEVTGTKIAYETKMDLVQTSEVMQESLYPAAQLCPSFEESEATPSPVLPDIVMEAPLNSAV |
| PSAGASVIQPSSSPLEASSVNYESIKHEPENPPPYEEAMSVSLKKVSGIKEEIKEPENINAALQETEAPYISI |
| ACDLIKETKLSAEPAPDFSDYSEMAKVEQPVPDHSELVEDSSPDSEPVDLFSDDSIPDVPQKQDETVM |
| LVKESLTETSFESMIEYENKEKLSALPPEGGKPYLESFKLSLDNTKDTLLPDEVSTLSKKEKIPLQMEELSTA |
| VYSNDDLFISKEAQIRETETFSDSSPIEIIDEFPTLISSKTDSFSKLAREYTDLEVSHKSEIANAPDGAGSLPC |
| TELPHDLSLKNIQPKVEEKISFSDDFSKNGSATSKVLLLPPDVSALATQAEIESIVKPKVLVKEAEKKLPSD |
| TEKEDRSPSAIFSAELSKTSVVDLLYWRDIKKTGVVFGASLFLLLSLTVFSIVSVTAYIALALLSVTISFRIYK |
| ${\sf GVIQAIQKSDEGHPFRAYLESEVAISEELVQKYSNSALGHVNCTIKELRRLFLVDDLVDSLKFAVLMWV}$ |
| FTYVGALFNGLTLLILALISLFSVPVIYERHQAQIDHYLGLANKNVKDAMAKIQAKIPGLKRKA |
| 111111111111111111111111111111111111 |
| 111111111111111111111111111111111111 |
| 111111111111111111111111111111111111 |
| 111111111111111111111111111111111111 |
| 111111111111111111111111111111111111 |
| 111111111111111111111111111111111111 |
| 111111111111111111111111111111111111 |
| 111111111111111111111111111111111111 |
| 111111111111111111111111111111111111 |
| 111111111111111111111111111111111111 |
| 111111111111111111111111111111111111 |
| 111111111111111111111111111111111111 |
| 111111111111111111111111111111111111 |
| 111111111111111111111111111111111111 |
| 000000000000000000000000000000000000 |
| 000000000000000000000000000000000000000 |
| >DP00529 |

MSLEKAHTSVKKMTFGENRDLERVVTAPVSSGKIKRVNVNFDEEKHTRFKAACARKGTSITDVVNQL VDNWLKEN

MEYGQQGQHGHGATGHVDQYGNPVGGVEHGTGGMRHGTGTGGMGQLGEHGGAGMGGGQF QPAREEHKTGGILHRSGSSSSSSSSEDDGMGGRRKKGIKEKIKEKLPGGHKDDQHATATTGGAYGQQG HTGSAYGQQGHTGGAYATGTEGTGEKKGIMDKIKEKLPGQ

>DP00534

>DP00535

MIQSAAPSIPRVEVILDCSDREKEAPKSLAERGCVDSQVEGGQSEAPPSLPSFAISSEGTEQGEDNQHS
EKDHRPLKHRARHARLRRSESLSEKQVKEAKSKCKSIALLLTAAPNPNSKGVLMFKKRRQRARKYTLVS
YGTGELERDEDEGEEGEVEEGDKENTFEVSLLATSESEIDEDFFSDIDNDKKIVTFDWDSGLLEVEKKTKS
GDEMQTLPETTGKGALMFARRRQRMDQITAEQEEMKARTAHAEEQREVTVSENFQKVSSSAYQTKE
EEMLRQQPCISKSYADVSQNDGKIVQQNGFGVAPDTSLSFQSSEAQKAASLNRTAKPFPFGVQNRA
AAPFSPTRNVTSPLSDLPAPPPPYCSISPPPEALYRPLSAPAASKAAPILWSHTEPTERIASRDERIAVPAK
RTGILQEAKRRSTSKPMFSFKEAPKVSPNPALLSLVHNAEGKKGSGAGFESGPEEDYLSLGAEACNFM
QSQASKQKAPPPTAPKPSLKVSPAAGTPVSPVWSPAVASNKAPSFPAPASPQAAYPAPLKSPQYPHS
PSANPPNTLNLSGPFKGPQATLASPNHPAKTPTTPSAGETKPFEMPPEMRGKGAQLFARRHSRMEKY
VVDSETVQANMARASSPTPSLPASWKYSSNVRAPPPVAYNPIHSPSYPPAATKPFPKSTAATKNTKRK
PKKGLNALDIMKHQPYQLDASLFTFQPPSNKESLGIKQIPKLPTSKQATSLRLPGSASPTNVRASSVYS
VPAYSSQPSFQSNASTPVNESYTPTGYSAFSKPESTTSSLFTAPRPKFSAKKAGVIAQERSSGRSLSLPG
KPSFISRATSPTSPLIFQPAPDYFSKPDTAADKPGKRLTPWEAAAKSPLGLVDEAFRPQNMQESIAANV
VSAAHRKTLPEPPDEWKQKVSYEPPGPSASLALLGGKQPGVTSARKSSLSVSNATTQAGSQQQYAY
CSQRSQTDPDIMSMDSRSDYGLSTADSNYNPQPRGWRRP

>DP00537

MDRSLGWQGNSVPEDRTEAGIKRFLEDTTDDGELSKFVKDFSGNASCHPPEAKTWASRPQVPEPRP QAPDLYDDDLEFRPPSRPQSSDNQQYFCAPAPLSPSARPRSPWGKLDPYDSSEDDKEYVGFATLPN QVHRKSVKKGFDFTLMVAGESGLGKSTLVNSLFLTDLYRDRKLLGAEERIMQTVEITKHAVDIEEKGVR LRLTIVDTPGFGDAVNNTECWKPVAEYIDQQFEQYFRDESGLNRKNIQDNRVHCCLYFISPFGHGLRP LDVEFMKALHQRVNIVPILAKADTLTPPEVDHKKRKIREEIEHFGIKIYQFPDCDSDEDEDFKLQDQALK ESIPFAVIGSNTVVEARGRRVRGRLYPWGIVEVENPGHCDFVKLRTMLVRTHMQDLKDVTRETHYEN YRAQCIQSMTRLVVKERNRNKLTRESGTDFPIPAVPPGTDPETEKLIREKDEELRRMQEMLHKIQKQM KEN

>DP00540

MSESEAEETKISTEPVDNAWSMKIPAFRQEDNPHGMVEESSFATLFPKYRERYLKEVWPLVEQCLAEH HLKAELDLMEGSMVVKTSRKTWDPYIIIKARDMIKLMARSVPFEQAKRVLQDDIGCDIIKIGNLVHKKE KFVKRRQRLIGPNGATLKSIELLTDCYVLVQGNTVSALGPYKGLQQVRDIVLETMNNVHPIYNIKALMI KRELMKDPRLANEDWSRFLPKFKNKNISKRKQPKVKKQKKEYTPFPPSQPESKVDKQLASGEYFLNQE QKQAKRNQERTEKQKEAAKRQDERRNKDFVPPTEESAASSRKKEDGSSSSKVDVKALKAKLIKANKK ARS

>DP00541

MGKRLDLSTLTDEEAEHVWAVVQRDFDLRRREEERLQGLKGKIQKESSKRELLSDTAHLNETHCARCL QPYRLLLNSRRQCLECSLFVCKSCSHAHPEEQGWLCDPCHLARVVKIGSLEWYYQHVRARFKRFGSA KVIRSLCGRLQGGGSEPSLEEGNGDSEQTDEDGDLDTEARDQPLNSKKKKRLLSFRDVDFEEDSDHL VQPCSQTLGLSSVPESAHSLQSLSGEPYSEDTTSLEPEGLEETGARALGCRPSPEVQPCSPLPSGEDAH AELDSPAASCKSAFGTTAMPGTDDVRGKHLPSQYLADVDTSDEDSIQGPRAASQHSKRRARTVPET QILELNKRMSAVEHLLVHLENTVLPPSAQEPTVETHPSADTEEETLRRRLEELTSNISGSSTSSEDETKPD GTFLGGSPKVCTDTGHMETQERNPRSPGNPARPTKSTDEELSEMEDRVAMTASEVQQAESEISDIES RIAALRAAGLTVKPSGKPRRKSGIPIFLPRVTEKLDRIPKTPPADPDDQAKMPKATTAVPSLLRRKYSPSS QGVDSGSFDRKSVYRGSLTQRNPNGRRGTARHIFAKPVMAQQ

>DP00542

GKNKSKRIQALKFRHARDKRAGFEIDNNDDTIEEFFGSAYRKKGKGKGTTVGMGKSSRRFINMYGFDP TEYSFIQFVDPLTGAQIEENVYADIRDIQERFSEVRKKMVEDDEIEMQALGSNTSIHAYFRKDWSDKAL KIDLMPHNPLKICDKTNGIAKFPEREFELRQTGPAVEVDVKDIPKQE

>DP00550

AKDLLKADDIKKALDAVKAEGSFNHKKFFALVGLKAMSANDVKKVFKAIDADASGFIEEEELKFVLKSF AADGRDLTDAETKAFLKAADKDGDGKIGIDEFETLVHE

>DP00552

MQKEQLSALMDGETLDSELLNELAHNPEMQKTWESYHLIRDSMRGDTPEVLHFDISSRVMAAIEEEP VRQPATLIPEAQPAPHQWQKMPFWQKVRPWAAQLTQMGVAACVSLAVIVGVQHYNGQSETSQQ PETPVFNTLPMMGKASPVSLGVPSEATANNGQQQQVQEQRRRINAMLQDYELQRRLHSEQLQFE QAQTQQAAVQVPGIQTLGTQS

MWLRLGPPSLSLSPKPTVGRSLCLTLWFLSLALRASTQAPAPTVNTHFGKLRGARVPLPSEILGPVDQY LGVPYAAPPIGEKRFLPPEPPPSWSGIRNATHFPPVCPQNIHTAVPEVMLPVWFTANLDIVATYIQEPN EDCLYLNVYVPTEDVKRISKECARKPNKKICRKGGSGAKKQGEDLADNDGDEDEDIRDSGAKPVMVY IHGGSYMEGTGNMIDGSILASYGNVIVITLNYRVGVLGFLSTGDQAAKGNYGLLDQIQALRWVSENIA FFGGDPRRITVFGSGIGASCVSLLTLSHHSEGLFQRAIIQSGSALSSWAVNYQPVKYTSLLADKVGCNV LDTVDMVDCLRQKSAKELVEQDIQPARYHVAFGPVIDGDVIPDDPEILMEQGEFLNYDIMLGVNQGE GLKFVEGVVDPEDGVSGTDFDYSVSNFVDNLYGYPEGKDTLRETIKFMYTDWADRDNPETRRKTLVA LFTDHQWVEPSVVTADLHARYGSPTYFYAFYHHCQSLMKPAWSDAAHGDEVPYVFGVPMVGPTDL FPCNFSKNDVMLSAVVMTYWTNFAKTGDPNKPVPQDTKFIHTKANRFEEVAWSKYNPRDQLYLHIG LKPRVRDHYRATKVAFWKHLVPHLYNLHDMFHYTSTTTKVPPPDTTHSSHITRRPNGKTWSTKRPAIS PAYSNENAQGSWNGDQDAGPLLVENPRDYSTELSVTIAVGASLLFLNVLAFAALYYRKDKRRQEPLR QPSPQRGAGAPELGAAPEEELAALQLGPTHHECEAGPPHDTLRLTALPDYTLTLRRSPDDIPLMTPNTI TMIPNSLVGLOTLHPYNTFAAGFNSTGLPHSHSTTR

>DP00554

MAGGAWGRLACYLEFLKKEELKEFQLLLANKAHSRSSSGETPAQPEKTSGMEVASYLVAQYGEQRA WDLALHTWEQMGLRSLCAQAQEGAGHSPSFPYSPSEPHLGSPSQPTSTAVLMPWIHELPAGCTQG SERRVLRQLPDTSGRRWREISASLLYQALPSSPDHESPSQESPNAPTSTAVLGSWGSPPQPSLAPREQ EAPGTQWPLDETSGIYYTEIREREREKSEKGRPPWAAVVGTPPQAHTSLQPHHHPWEPSVRESLCST

WPWKNEDFNQKFTQLLLLQRPHPRSQDPLVKRSWPDYVEENRGHLIEIRDLFGPGLDTQEPRIVILQG AAGIGKSTLAROVKEAWGRGOLYGDRFOHVFYFSCRELAOSKVVSLAELIGKDGTATPAPIROILSRPE RLLFILDGVDEPGWVLQEPSSELCLHWSQPQPADALLGSLLGKTILPEASFLITARTTALQNLIPSLEQA RWVEVLGFSESSRKEYFYRYFTDERQAIRAFRLVKSNKELWALCLVPWVSWLACTCLMQQMKRKEKL TLTSKTTTTLCLHYLAQALQAQPLGPQLRDLCSLAAEGIWQKKTLFSPDDLRKHGLDGAIISTFLKMGIL QEHPIPLSYSFIHLCFQEFFAAMSYVLEDEKGRGKHSNCIIDLEKTLEAYGIHGLFGASTTRFLLGLLSDEG EREMENIFHCRLSQGRNLMQWVPSLQLLLQPHSLESLHCLYETRNKTFLTQVMAHFEEMGMCVETD MELLVCTFCIKFSRHVKKLQLIEGRQHRSTWSPTMVVLFRWVPVTDAYWQILFSVLKVTRNLKELDLS GNSLSHSAVKSLCKTLRRPRCLLETLRLAGCGLTAEDCKDLAFGLRANOTLTELDLSFNVLTDAGAKHL CQRLRQPSCKLQRLQLVSCGLTSDCCQDLASVLSASPSLKELDLQQNNLDDVGVRLLCEGLRHPACK LIRLGLDOTTLSDEMROELRALEOEKPOLLIFSRRKPSVMTPTEGLDTGEMSNSTSSLKRORLGSERAA SHVAQANLKLLDVSKIFPIAEIAEESSPEVVPVELLCVPSPASQGDLHTKPLGTDDDFWGPTGPVATEV VDKEKNLYRVHFPVAGSYRWPNTGLCFVMREAVTVEIEFCVWDQFLGEINPQHSWMVAGPLLDIKA EPGAVEAVHLPHFVALQGGHVDTSLFQMAHFKEEGMLLEKPARVELHHIVLENPSFSPLGVLLKMIH NALRFIPVTSVVLLYHRVHPEEVTFHLYLIPSDCSIRKAIDDLEMKFQFVRIHKPPPLTPLYMGCRYTVSG SGSGMLEILPKELELCYRSPGEDOLFSEFYVGHLGSGIRLOVKDKKDETLVWEALVKPGDLMPATTLIPP ARIAVPSPLDAPQLLHFVDQYREQLIARVTSVEVVLDKLHGQVLSQEQYERVLAENTRPSQMRKLFSL SOSWDRKCKDGLYQALKETHPHLIMELWEKGSKKGLLPLS

>DP00556

MPVFHTRTIESILEPVAQQISHLVIMHEEGEVDGKAIPDLTAPVSAVQAAVSNLVRVGKETVQTTEDQI LKRDMPPAFIKVENACTKLVRAAQMLQADPYSVPARDYLIDGSRGILSGTSDLLLTFDEAEVRKIIRVCK GILEYLTVAEVVETMEDLVTYTKNLGPGMTKMAKMIDERQQELTHQEHRVMLVNSMNTVKELLPVLI SAMKIFVTTKNTKSQGIEEALKNRNFTVEKMSAEINEIIRVLQLTSWDEDAWASKDTEAMKRALALIDS KMNQAKGWLRDPNAPPGDAGEQAIRQILDEAGKAGELCAGKERREILGTCKTLGQMTDQLADLRA

RGQGATPMAMQKAQQVSQGLDLLTAKVENAARKLEAMTNSKQAIAKKIDAAQNWLADPNGGSE GEEHIRGIMSEARKVAELCEEPKERDDILRSLGEISALTAKLSDLRRHGKGDSPEARALAKOIATSLONL QSKTNRAVANTRPVKAAVHLEGKIEQAQRWIDNPTVDDRGVGQAAIRGLVAEGRRLANVMMGPY RQDLLAKCDRVDQLAAQLADLAARGEGESPQARAIAAQLQDSLKDLKARMQEAMTQEVSDVFSDT TTPIKLLAVAATAPSDTPNREEVFEERAANFENHAARLGATAEKAAAVGTANKTTVEGIOATVKSAREL TPQVVSAARILLRNPGNQAAYEHFETMKNQWIDNVEKMTGLVDEAIDTKSLLDASEEAIKKDLDKCK VAMANMOPOMLVAGATSIARRANRILLVAKREVENSEDPKFREAVKAASDELSKTISPMVMDAKAV AGNISDPGLQKSFLDSGYRILGAVAKVREAFQPQEPDFPPPPDLEHLHLTDELAPPKPPLPEGEVPPP RPPPPEEKDEEFPEOKAGEAINOPMMMAAROLHDEARKWSSKPVTVINEAAEAGVDIDEEDDADVE FSLPSDIEDDYEPELLLMPTNQPVNQPILAAAQSLHREATKWSSKGNDIIAAAKRMALLMAEMSRLVR GGSGNKRALIOCAKDIAKASDEVTRLAKEVAKOCTDKRIRTNLLOVCERIPTISTOLKILSTVKATMLGR TNISDEESEQATEMLVHNAQNLMQSVKETVREAEAASIKIRTDAGFTLRWVRKTPWY 00000000

>DP00559

MSLRYLRFLTAGESHGKGLTAILEGIPANLPLSEEEINHELRRRQRGYGRGGRMKIEKDTAEILSGVRFGK TLGSPIALFIRNRDWENWKEKMAIEGEPSPSVVPFTRPRPGHADLSGGIKYNQRDLRNILERASARETA ARVAVGAVCKKFLSEFGIKIGSFVVSIGQKEVEELKDKSYFANPEKLLSYHEKAEDSELRIPFPEKDEEFKT YIDEVKEKGESLGGVFEVFALNVPPGLGSHIQWDRRIDGRIAQAMMSIQAIKGVEIGLGFEAARRFGS QVHDEIGWSEGKGYFRHSNNLGGTEGGITNGMPIVVRVAMKPIPTLKNPLRSVDIETKEEMKAGKERT DIVAVPAASVVGEAMLAIVLADALLEKLGGDFMEEVKKRFEDYVNHVKS

>DP00563

MGTPKQPSLAPAHALGLRKSDPGIRSLGSDAGGRRWRPAAQSMFQIPEFEPSEQEDASATDRGLGPS LTEDQPGPYLAPGLLGSNIHQQGRAATNSHHGGAGAMETRSRHSSYPAGTEEDEGMEEELSPFRGR

SRSAPPNLWAAQRYGRELRRMSDEFEGSFKGLPRPKSAGTATQMRQSAGWTRIIQSWWDRNLGKG GSTPS

>DP00564

MPLHVSLANGNRDLDYDSVQPYFMCDDEEEDVHHQQPPQPPAPSEDIWKKFELLPTPRPSPGHAG LYSPPCEAVAVSFAPRDHDGDSFSIADLPELPGGDAVKQSFVCDPDDETFVKNIILQDCMWNGFSAS AKLVSKLDPYOAVRKEGTGVSLAADVEPATPPDCTCN

>DP00566

MDIRPIIISLLISTCVQADRICVGYLSTNSTEKVDTLLENDVPVTSSIDLVETNHTGTYCSLDGISPVHLGD CSFEGWIVGNPACTSNFGIREWSYLIEDPSAPHGLCYPGELDNNGELRHLFSGIRSFSRTELIAPTSWGE VNDGATSACRDNTGTNSFYRNLVWFVKKGNSYPVISRTYNNTTGRDVLVMWGLHHPVSTDETKSLY VNSDPYTLVSTSSWSKKYKLETGVRPGYNGQRSWMKIYWVLMHPGESITFESNGGLLAPRYGYIIEEY GKGRIFQSPIRIARCNTRCQTSVGGINTNKTFQNIERNALGNCPKYIKSGQLKLATGLRNVPAISNRGLF GAIAGFIEGGWPGLINGWYGFQHQNEQGVGIAADKESTQKAIDQITTKINNIIDKMNGNYDSIRGEFS QVEQRINMLADRIDDAVTDVWSYNAKLLVLLENDKTLDMHDANVRNLHEQVRRTLKANAIDEGNG CFELLHKCNDSCMDTIRNGTYNHAEYAEESKLKRQEIEGIKLKSEDNVYKALSIYSCIASSVVLVGLILAFI MWACSSGNCRFNVC

>DP00571

>DP00572

MKLAPYILELLTSVNRTNGTADLLVPLLRELAKGRPVSRTTLAGILDWPAERVAAVLEQATSTEYDKDG NIIGYGLTLRETSYVFEIDDRRLYAWCALDTLIFPALIGRTARVSSHCAATGAPVSLTVSPSEIQAVEPAG MAVSLVLPQEAADVRQSFCCHVHFFASVPTAEDWASKHQGLEGLAIVSVHEAFGLGQEFNRHLLQT MSSRT

MESIFHEKQEGSLCAQHCLNNLLQGEYFSPVELSSIAHQLDEEERMRMAEGGVTSEDYRTFLQQPSG NMDDSGFFSIQVISNALKVWGLELILFNSPEYQRLRIDPINERSFICNYKEHWFTVRKLGKQWFNLNSL LTGPELISDTYLALFLAQLQQEGYSIFVVKGDLPDCEADQLLQMIRVQQMHRPKLIGEELAQLKEQRV HKTDLERMLEANDGSGMLDEDEEDLQRALALSRQEIDMEDEEADLRRAIQLSMQGSSRNISQDMTQ TSGTNLTSEELRKRREAYFEKQQQKQQQQQQQQQQQQQQQQQQQQQQQQQQQRDLSGQSSHPCERP ATSSGALGSDLGKACSPFIMFATFTLYLTYELHVIFALHYSSFP

MCGIVGIAGVMPVNQSIYDALTVLQHRGQDAAGIITIDANNCFRLRKANGLVSDVFEARHMQRLQG NMGIGHVRYPTAGSSSASEAQPFYVNSPYGITLAHNGNLTNAHELRKKLFEEKRRHINTTSDSEILLNIF ASELDNFRHYPLEADNIFAAIAATNRLIRGAYACVAMIIGHGMVAFRDPNGIRPLVLGKRDIDENRTEY MVASESVALDTLGFDFLRDVAPGEAIYITEEGQLFTRQCADNPVSNPCLFEYVYFARPDSFIDKISVYSA RVNMGTKLGEKIAREWEDLDIDVVIPIPETSCDIALEIARILGKPYRQGFVKNRYVGRTFIMPGQQLRRK SVRRKLNANRAEFRDKNVLLVDDSIVRGTTSEQIIEMAREAGAKKVYLASAAPEIRFPNVYGIDMPSAT ELIAHGREVDEIRQIIGADGLIFQDLNDLIDAVRAENPDIQQFECSVFNGVYVTKDVDQGYLDFLDTLR NDDAKAVQRQNEVENLEMHNE

>DP00583

MKASTVLOIAYLVSOESKCCSWKVGAVIEKNGRIISTGYNGSPAGGVNCCDYAAEOGWLLNKPKHAI

>DP00584