### >DP00001

MSTEASVSYAALILADAEQEITSEKLLAITKAAGANVDQVWADVFAKAVEGKNLKELLFSFAAAAPAS GAAAGSASGAAAGGEAAAEEAAEEEAAEESDDDMGFGLFD

>DP00003

MASREEEORETTPERGRGAARRPPTMEDVSSPSPSPPPPRAPPKKRMRRRIESEDEEDSSODALVPRT PSPRPSTSAADLAIAPKKKKKRPSPKPERPPSPEVIVDSEEEREDVALQMVGFSNPPVLIKHGKGGKRTV RRLNEDDPVARGMRTOEEEEEPSEAESEITVMNPLSVPIVSAWEKGMEAARALMDKYHVDNDLKAN FKLLPDQVEALAAVCKTWLNEEHRGLQLTFTSNKTFVTMMGRFLQAYLQSFAEVTYKHHEPTGCAL WLHRCAEIEGELKCLHGSIMINKEHVIEMDVTSENGORALKEOSSKAKIVKNRWGRNVVOISNTDAR CCVHDAACPANOFSGKSCGMFFSEGAKAOVAFKOIKAFMOALYPNAOTGHGHLLMPLRCECNSK PGHAPFLGRQLPKLTPFALSNAEDLDADLISDKSVLASVHHPALIVFQCCNPVYRNSRAQGGGPNCD FKISAPDLLNALVMVRSLWSENFTELPRMVVPEFKWSTKHQYRNVSLPVAHSDARQNPFDF 0000

### >DP00004

MKTQRNGHSLGRWSLVLLLLGLVMPLAIIAQVLSYKEAVLRAIDGINQRSSDANLYRLLDLDPRPTMD GDPDTPKPVSFTVKETVCPRTTQQSPEDCDFKKDGLVKRCMGTVTLNQARGSFDISCDKDNKRFALL GDFFRKSKEKIGKEFKRIVQRIKDFLRNLVPRTES

### >DP00012

MQRSPLEKASVVSKLFFSWTRPILRKGYRQRLELSDIYQIPSVDSADNLSEKLEREWDRELASKKNPKLI NALRRCFFWRFMFYGIFLYLGEVTKAVQPLLLGRIIASYDPDNKEERSIAIYLGIGLCLLFIVRTLLLHPAIF GLHHIGMQMRIAMFSLIYKKTLKLSSRVLDKISIGQLVSLLSNNLNKFDEGLALAHFVWIAPLQVALLM GLIWELLQASAFCGLGFLIVLALFQAGLGRMMMKYRDQRAGKISERLVITSEMIENIQSVKAYCWEEA MEKMIENLRQTELKLTRKAAYVRYFNSSAFFFSGFFVVFLSVLPYALIKGIILRKIFTTISFCIVLRMAVTRQ FPWAVQTWYDSLGAINKIQDFLQKQEYKTLEYNLTTTEVVMENVTAFWEEGFGELFEKAKQNNNNR KTSNGDDSLFFSNFSLLGTPVLKDINFKIERGQLLAVAGSTGAGKTSLLMVIMGELEPSEGKIKHSGRISF CSQFSWIMPGTIKENIIFGVSYDEYRYRSVIKACQLEEDISKFAEKDNIVLGEGGITLSGGQRARISLARA VYKDADLYLLDSPFGYLDVLTEKEIFESCVCKLMANKTRILVTSKMEHLKKADKILILHEGSSYFYGTFSEL QNLQPDFSSKLMGCDSFDQFSAERRNSILTETLHRFSLEGDAPVSWTETKKQSFKQTGEFGEKRKNSIL NPINSIRKFSIVQKTPLQMNGIEEDSDEPLERRLSLVPDSEQGEAILPRISVISTGPTLQARRRQSVLNLM THSVNQGQNIHRKTTASTRKVSLAPQANLTELDIYSRRLSQETGLEISEEINEEDLKECFFDDMESIPAV TTWNTYLRYITVHKSLIFVLIWCLVIFLAEVAASLVVLWLLGNTPLQDKGNSTHSRNNSYAVIITSTSSYY VFYIYVGVADTLLAMGFFRGLPLVHTLITVSKILHHKMLHSVLQAPMSTLNTLKAGGILNRFSKDIAILD

DLLPLTIFDFIQLLLIVIGAIAVVAVLQPYIFVATVPVIVAFIMLRAYFLQTSQQLKQLESEGRSPIFTHLVTS LKGLWTLRAFGRQPYFETLFHKALNLHTANWFLYLSTLRWFQMRIEMIFVIFFIAVTFISILTTGEGEGRV GIILTLAMNIMSTLQWAVNSSIDVDSLMRSVSRVFKFIDMPTEGKPTKSTKPYKNGQLSKVMIIENSHV KKDDIWPSGGQMTVKDLTAKYTEGGNAILENISFSISPGQRVGLLGRTGSGKSTLLSAFLRLLNTEGEIQ IDGVSWDSITLQQWRKAFGVIPQKVFIFSGTFRKNLDPYEQWSDQEIWKVADEVGLRSVIEQFPGKLD FVLVDGGCVLSHGHKQLMCLARSVLSKAKILLLDEPSAHLDPVTYQIIRRTLKQAFADCTVILCEHRIEA MLECQQFLVIEENKVRQYDSIQKLLNERSLFRQAISPSDRVKLFPHRNSSKCKSKPQIAALKEETEEEVQ DTRL

>DP00014

MKILLCVALLLTWDNGMVLGEQEFSDNELQELSTQGSRYVNKEIQNAVQGVKHIKTLIEKTNAERKS LLNSLEEAKKKKEGALDDTRDSEMKLKAFPEVCNETMMALWEECKPCLKHTCMKFYARVCRSGSGLV GRQLEEFLNQSSPFYFWMNGDRIDSLLESDRQQSQVLDAMQDSFTRASGIIDTLFQDRFFTHEPQDI HHFSPMGFPHKRPHFLYPKSRLVRSLMPLSHYGPLSFHNMFQPFFDMIHQAQQAMDVQLHSPALQ FPDVDFLKEGEDDPTVCKEIRHNSTGCLKMKGQCEKCQEILSVDCSTNNPAQANLRQELNDSLQVAE RLTQQYNELLHSLQSKMLNTSSLLEQLNDQFTWVSQLANLTQGDDQYLRVSTVTTHSSDSEVPSRV TEVVVKLFDSDPITVVLPEEVSKDNPKFMDTVAEKALQEYRRKSRME

MTDVETTYADFIASGRTGRRNAIHDILVSSASGNSNELALKLAGLDINKTEGEEDAQRSSTEQSGEAQ

### **GEAAKSES**

# >DP00016

MSEPAGDVRQNPCGSKACRRLFGPVDSEQLSRDCDALMAGCIQEARERWNFDFVTETPLEGDFAW ERVRGLGLPKLYLPTGPRRGRDELGGGRRPGTSPALLQGTAEEDHVDLSLSCTLVPRSGEQAEGSPGG PGDSOGRKRROTSMTDFYHSKRRLIFSKRKP

# >DP00018

# >DP00019

MLSVAARSGPFAPVLSATSRGVAGALRPLVQAAVPATSESPVLDLKRSVLCRESLRGQAAGRPLVASV SLNVPASVRYSHTDIKVPDFSDYRRPEVLDSTKSSKESSEARKGFSYLVTATTTVGVAYAAKNVVSQFV SSMSASADVLAMSKIEIKLSDIPEGKNMAFKWRGKPLFVRHRTKKEIDQEAAVEVSQLRDPQHDLERV KKPEWVILIGVCTHLGCVPIANAGDFGGYYCPCHGSHYDASGRIRKGPAPLNLEVPSYEFTSDDMVIV G

### >DP00020

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

>DP00022

MASQQEKKELDARARQGETVVPGGTGGKSLEAQQHLAEGRSKGGQTRKEQLGGEGYHEMGRKGG LSNNDMSGGERAEQEGIDIDESKFRTKK

>DP00023

>DP00025

MKNNLRYGIRKHKLGAASVFLGTMIVVGMGODKEAAASEOKTTTVEENGNSATDNKTSETOTTATN VNHIEETOSYNATVTEOPSNATOVTTEEAPKAVQAPQTAQPANIETVKEEVVKEEAKPQVKETTOSQ DNSGDQRQVDLTPKKATQNQVAETQVEVAQPRTASESKPRVTRSADVAEAKEASNAKVETGTDVT SKVTVEIGSIEGHNNTNKVEPHAGQRAVLKYKLKFENGLHQGDYFDFTLSNNVNTHGVSTARKVPEIK NGSVVMATGEVLEGGKIRYTFTNDIEDKVDVTAELEINLFIDPKTVQTNGNQTITSTLNEEQTSKELDV KYKDGIGNYYANLNGSIETFNKANNRFSHVAFIKPNNGKTTSVTVTGTLMKGSNQNGNQPKVRIFEY LGNNEDIAKSVYANTTDTSKFKEVTSNMSGNLNLONNGSYSLNIENLDKTYVVHYDGEYLNGTDEV DFRTQMVGHPEQLYKYYYDRGYTLTWDNGLVLYSNKANGNEKNGPIIQNNKFEYKEDTIKETLTGQY DKNLVTTVEEEYDSSTLDIDYHTAIDGGGGYVDGYIETIEETDSSAIDIDYHTAVDSEAGHVGGYTESSE ESNPIDFEESTHENSKHHADVVEYEEDTNPGGGOVTTESNLVEFDEESTKGIVTGAVSDHTTVEDTKE YTTESNLIELVDELPEEHGOAOGPVEEITKNNHHISHSGLGTENGHGNYDVIEEIEENSHVDIKSELGYE GGQNSGNQSFEEDTEEDKPKYEQGGNIVDIDFDSVPQIHGQNKGNQSFEEDTEKDKPKYEHGGNIID IDFDSVPHIHGFNKHTEIIEEDTNKDKPSYQFGGHNSVDFEEDTLPKVSGQNEGQQTIEEDTTPPIVPPT PPTPEVPSEPETPTPPTPEVPSEPETPTPPTPEVPSEPETPTPPTPEVPAEPGKPVPPAKEEPKKPSKPVEO GKVVTPVIEINEKVKAVAPTKKPQSKKSELPETGGEESTNKGMLFGGLFSILGLALLRRNKKNHKA 

### >DP00026

AQVINTNSLSLLTQNNLNKSQSALGTAIERLSSGLRINSAKDDAAGQAIANRFTANIKGLTQASRNAN DGISIAQTTEGALNEINNNLQRVRELAVQSANSTNSQSDLDSIQAEITQRLNEIDRVSGQTQFNGVKV LAQDNTLTIQVGANDGETIDIDLKQINSQTLGLDTLNVQQKYKVSDTAATVTGYADTTIALDNSTFKA SATGLGGTDQKIDGDLKFDDTTGKYYAKVTVTGGTGKDGYYEVSVDKTNGEVTLAGGATSPLTGGLP ATATEDVKNVQVANADLTEAKAALTAAGVTGTASVVKMSYTDNNGKTIDGGLAVKVGDDYYSATQ NKDGSISINTTKYTADDGTSKTALNKLGGADGKTEVVSIGGKTYAASKAEGHNFKAQPDLAEAAATTT ENPLQKIDAALAQVDTLRSDLGAVQNRFNSAITNLGNTVNNLTSARSRIEDSDYATEVSNMSRAQIL QQAGTSVLAQANQVPQNVLSLLR

### >DP00029

MKLWDVVAVCLVLLHTASAFPLPAGKRLLEAPAEDHSLGHRRVPFALTSDSNMPEDYPDQFDDVM DFIQATIKRLKRSPDKQAAALPRRERNRQAAAASPENSRGKGRRGQRGKNRGCVLTAIHLNVTDLGL GYETKEELIFRYCSGSCEAAETMYDKILKNLSRSRRLTSDKVGQACCRPVAFDDDLSFLDDSLVYHILRK HSAKRCGCI

MDSKESLTPGREENPSSVLAQERGDVMDFYKTLRGGATVKVSASSPSLAVASQSDSKQRRLLVDFPK GSVSNAQQPDLSKAVSLSMGLYMGETETKVMGNDLGFPQQGQISLSSGETDLKLLEESIANLNRSTS VPENPKSSASTAVSAAPTEKEFPKTHSDVSSEQQHLKGQTGTNGGNVKLYTTDQSTFDILQDLEFSSG SPGKETNESPWRSDLLIDENCLLSPLAGEDDSFLLEGNSNEDCKPLILPDTKPKIKDNGDLVLSSPSNVT LPQVKTEKEDFIELCTPGVIKQEKLGTVYCQASFPGANIIGNKMSAISVHGVSTSGGQMYHYDMNTAS LSQQQDQKPIFNVIPPIPVGSENWNRCQGSGDDNLTSLGTLNFPGRTVFSNGYSSPSMRPDVSSPPS SSSTATTGPPPKLCLVCSDEASGCHYGVLTCGSCKVFFKRAVEGQHNYLCAGRNDCIIDKIRRKNCPA CRYRKCLQAGMNLEARKTKKKKIKGIQQATTGVSQETSENPGNKTIVPATLPQLTPTLVSLLEVIEPEVLY

AGYDSSVPDSTWRIMTTLNMLGGRQVIAAVKWAKAIPGFRNLHLDDQMTLLQYSWMFLMAFALG WRSYRQSSANLLCFAPDLIINEQRMTLPCMYDQCKHMLYVSSELHRLQVSYEEYLCMKTLLLLSSVPK DGLKSQELFDEIRMTYIKELGKAIVKREGNSSQNWQRFYQLTKLLDSMHEVVENLLNYCFQTFLDKTM SIEFPEMLAEIITNQIPKYSNGNIKKLLFHQK

### >DP00034

### >DP00035

GCTLSAEDKAAVERSKMIDRNLREDGEKAAREVKLLLLGAGESGKSTIVKQMKIIHEAGYSEEECKQYK AVVYSNTIQSIIAIIRAMGRLKIDFGDAARADDARQLFVLAGAAEEGFMTAELAGVIKRLWKDSGVQA CFNRSREYQLNDSAAYYLNDLDRIAQPNYIPTQQDVLRTRVKTTGIVETHFTFKDLHFKMFDVGGQR SERKKWIHCFEGVTAIIFCVALSDYDLVLAEDEEMNRMHESMKLFDSICNNKWFTDTSIILFLNKKDLFE EKIKKSPLTICYPEYAGSNTYEEAAAYIQCQFEDLNKRKDTKEIYTHFTCATDTKNVQFVFDAVTDVIIKN NLKDCGLF

### >DP00036

MGHNDSVETMDEISNPNNILLPHDGTGLDATGISGSQEPYGMVDVLNPDSLKDDSNVDEPLIEDIVN PSLDPEGVVSAEPSNEVGTPLLQQPISLDHVITRPASAGGVYSIGNSSTSSAAKLSDGDLTNATDPLLN

NAHGHGQPSSESQSHSNGYHKQGQSQQPLLSLNKRKLLAKAHVDKHHSKKKLSTTRARPAFVNKL WSMVNDKSNEKFIHWSTSGESIVVPNRERFVQEVLPKYFKHSNFASFVRQLNMYGWHKVQDVKSG SMLSNNDSRWEFENENFKRGKEYLLENIVRQKSNTNILGGTTNAEVDIHILLNELETVKYNQLAIAEDL KRITKDNEMLWKENMMARERHQSQQQVLEKLLRFLSSVFGPNSAKTIGNGFQPDLIHELSDMQVN HMSNNNHNNTGNINPNAYHNETDDPMANVFGPLTPTDQGKVPLQDYKLRPRLLLKNRSMSSSSSS NLNQRQSPQNRIVGQSPPPQQQQQQQQQQQQQQGPSYPIQGGNQMMNQLGSPIGTQVGS PVGSQYGNQYSNQFGNQLQQQTSRPALHHGSNGEIRELTPSIVSSDSPDPAFFQDLQNNID KQEESIQEIQDWITKLNPGPGEDGNTPIFPELNMPSYFANTGGSGQSEQPSDYGDSQIEELRNSRLHE PDRSFEEKNNGOKRRAA

### >DP00037

MPGSIPLIGERFPEMEVTTDHGVIKLPDHYVSQGKWFVLFSHPADFTPVCTTEFVSFARRYEDFQRLGV DLIGLSVDSVFSHIKWKEWIERHIGVRIPFPIIADPQGTVARRLGLLHAESATHTVRGVFIVDARGVIRTM LYYPMELGRLVDEILRIVKALKLGDSLKRAVPADWPNNEIIGEGLIVPPPTTEDQARARMESGQYRCLD WWFCWDTPASRDDVEEARRYLRRAAEKPAKLLYEEARTHLH

### >DP00043

MTLDLPRRFPWPTLLSVCIHGAVVAGLLYTSVHQVIELPAPAQPISVTMVTPADLEPPQAVQPPPEPV VEPEPEPIPEPPKEAPVVIEKPKPKPKPKPKVKKVQEQPKRDVKPVESRPASPFENTAPARLTSSTAT AATSKPVTSVASGPRALSRNQPQYPARAQALRIEGQVKVKFDVTPDGRVDNVQILSAKPANMFERE VKNAMRRWRYEPGKPGSGIVVNILFKINGTTEIQ

# >DP00045

PREYEFAEKILFTEEEIRTRIKEVAKRIADDYKGKGLRPYVNPLVLISVLKGSFMFTADLCRALCDFNVPVR MEFICVSSYGEGLTSSGQVRMLLDTRHSIEGHHVLIVEDIVDTALTLNYLYHMYFTRRPASLKTVVLLDK REGRRVPFSADYVVANIPNAFVIGYGLDYDDTYRELRDIVVLRPEVYAEREAARQKKQRAIGSADTDR DAKRFFHSKY

### >DP00048

MGGKWSKSSVVGWPTVRERMRRAEPAADGVGAASRDLEKHGAITSSNTAATNAACAWLEAQEEEE VGFPVTPQVPLRPMTYKAAVDLSHFLKEKGGLEGLIHSQRRQDILDLWIYHTQGYFPDWQNYTPGPG VRYPLTFGWCYKLVPVEPDKVEEANKGENTSLLHPVSLHGMDDPEREVLEWRFDSRLAFHHVARELH PEYFKNC

MDVDAEEKRHRTRSKGVRVPVEPAIQELFSCPTPGCDGTGHVSGKYARHRSVYGCPLAKKRKTQDK QPQEPAPKRKPFAVKADSSSVDECYESDGTEDMDDKEEDDDEEFSEDNDEQGDDDDEDEVDREDE NYDELVAKSLLNLGKIAEDAAYRARTESEVNSNTSNSLEDHSSKNENLGRKSELSLDLDSDVVRETVDS LKLLAQGHGVVLSENISDRSYAEGMSQODSRNMNYVMLGKPMNNGLMEKMVEESDEEVCLSSLEC LRNQCFDLARKLSETNPQDRSQPPNMSVRQHVRQEDDFPGRTPDRSYSDMMNLMRLEEQLSPRSR TFSSCAKEDGCHERDDDTTTVNSDRSEEVFDMTKGNLTLLEKAIALETERAKAMREKMAMDAGRRD NLRSYEDOSPROLAGEDRKSKSSDSHVKKPYYDPSRTEKRESKCPTPGCDGTGHVNGLYPHHRSLSG CPHKDRVPPEILAMHENVLKCPTPGCTGRGHVNSNRNSHRSLSGCPIAAAEKLAKAQEKHQSCDVS KSNQASDRVLRPMCFVKQLEIPQYGYRNNVPTTTPRSNLAKELEKYSKTSFEYNSYDNHTYGKRAIAP RCKPGTYPPKDMTMPSGTGKNASPSSSTTSSYAPSSSSNLSCGGGSSASSTCSKSSFDYTHDMEAAH MAATAILNLSTRCREMPQNLSTKPQDLCTARNPDMEVDENGTLDLSMNKQRPRDSCCPVLTPLEP MSPQQQAVMSSRCFQLSEGDCWDLPVDYTKMKPRRVDEEDPKEITPEDLDPFQEALEERRYPGEVTI PSPKPKYPOCKESKKDLITLSGCPLADKSIRSMLATSSOELKCPTPGCDGSGHITGNYASHRSLSGCPR AKKSGIRIAOSKEDKEDOEPIRCPVPGCDGOGHITGKYASHRSASGCPLAAKROKDGYLNGSOFSWK SVKTEGMSCPTPGCDGSGHVSGSFLTHRSLSGCPRATSAMKKAKLSGEQMLTIKQRASNGIENDEEIK **QLDEEIKELNESNSQMEADMIKLRTQVTITTMESNLKTIEEENKVIEQQNESLLHELANLSQSLIHSLANI** QLPHMDPINEQNFDAYVTTLTEMYTNQDRYQSPENKALLENIKQAVRGIQV 

### >DP00050

MSFGSADALLGAPFAPLHGGGSLHYSLSRKAGPGGTRSAAGSSSGFHSWARTSVSSVSASPSRFRGA ASSTDSLDTLSNGPEGCVVAAVAARSEKEQLQALNDRFAGYIDKVRQLEAHNRSLEGEAAALRQQK GRAAMGELYEREVREMRGAVLRLGAARGQLRLEQEHLLEDIAHVRQRLDEEARQREEAEAAARALAF AQEAEAARVELOKKAQALQEECGYLRRHHQEEVGELLGQIQGCGAAQAQAQAEARDALKCDVTSA LREIRAQLEGHAVQSSLQSEEWFRVRLDRLSEAAKVNTDAMRSAQEEITEYRRQLQARTTELEALKSTK ESLERQRSELEDRHQADIASYQDAIQQLDSELRNTKWEMAAQLREYQDLLNVKMALDIEIAAYRKLLE GEECRIGFGPSPFSLTEGLPKIPSISTHIKVKSEEMIKVVEKSEKETVIVEGOTEEIRVTEGVTEEEDKEAOG OEGEEAEEGEEKEEELAAATSPPAEEAASPEKETKSRVKEEAKSPGEAKSPGEAKSPAEAKSPGEAKSP GEAKSPGEAKSPAEPKSPAEPKSPAEAKSPAEPKSPATVKSPGEAKSPSEAKSPAEAKSPAEAKSPAEAK SPAEAKSPAEAKSPAEAKSPATVKSPGEAKSPSEAKSPAEAKSPAEAKSPAEAKSPAEVKSPGEAKSPAE PKSPAEAKSPAEVKSPAEAKSPAEVKSPGEAKSPAAVKSPAEAKSPAAVKSPGEAKSPAEAKS PAEAKSPIEVKSPEKAKTPVKEGAKSPAEAKSPEKAKSPVKEDIKPPAEAKSPEKAKSPVKEGAKPPEKAK PLDVKSPEAOTPVOEEATVPTDIRPPEOVKSPAKEKAKSPEKEEAKTSEKVAPKKEEVKSPVKEEVKAKE PPKKVEEEKTLPTPKTEAKESKKDEAPKEAPKPKVEEKKETPTEKPKDSTAEAKKEEAGEKKKAVASEEET PAKLGVKEEAKPKEKTETTKTEAEDTKAKEPSKPTETEKPKKEEMPAAPEKKDTKEEKTTESRKPEEKPKM EAKVKEDDKSLSKEPSKPKTEKAEKSSSTDQKESQPPEKTTEDKATKGEK

>DP00052

MRAWIFFLCLAGRALAAPQQTEVAEEIVEEETVVEETGVPVGANPVQVEMGEFEDGAEETVEEVVA DNPCQNHHCKHGKVCELDESNTPMCVCQDPTSCPAPIGEFEKVCSNDNKTFDSSCHFFATKCTLEG TKKGHKLHLDYIGPCKYIAPCLDSELTEFPLRMRDWLKNVLVTLYERDEGNNLLTEKQKLRVKKIHENE KRLEAGDHPVELLARDFEKNYNMYIFPVHWQFGQLDQHPIDGYLSHTELAPLRAPLIPMEHCTTRFFE TCDLDNDKYIALEEWAGCFGIKEQDINKDLVI

>DP00055

MDSGRDFLTLHGLQDDPDLQALLKGSQLLKVKSSSWRRERFYKLQEDCKTIWQESRKVMRSPESQLF SIEDIQEVRMGHRTEGLEKFARDIPEDRCFSIVFKDQRNTLDLIAPSPADAQHWVQGLRKIIHHSGSM DQRQKLQHWIHSCLRKADKNKDNKMNFKELKDFLKELNIQVDDGYARKIFRECDHSQTDSLEDEEIE TFYKMLTQRAEIDRAFEEAAGSAETLSVERLVTFLQHQQREEEAGPALALSLIERYEPSETAKAQRQMT KDGFLMYLLSADGNAFSLAHRRVYQDMDQPLSHYLVSSSHNTYLLEDQLTGPSSTEAYIRALCKGCR CLELDCWDGPNQEPIIYHGYTFTSKILFCDVLRAIRDYAFKASPYPVILSLENHCSLEQQRVMARHLRAI LGPILLDQPLDGVTTSLPSPEQLKGKILLKGKKLGGLLPAGGENGSEATDVSDEVEAAEMEDEAVRSQV QHKPKEDKLKLVPELSDMIIYCKSVHFGGFSSPGTSGQAFYEMASFSESRALRLLQESGNGFVRHNVS CLSRIYPAGWRTDSSNYSPVEMWNGGCQIVALNFQTPGPEMDVYLGCFQDNGGCGYVLKPAFLRD PNTTFNSRALTQGPWWRPERLRVRIISGQQLPKVNKNKNSIVDPKVIVEIHGVGRDTGSRQTAVITNN GFNPRWDMEFEFEVTVPDLALVRFMVEDYDSSSKNDFIGQSTIPWNSLKQGYRHVHLLSKNGDQHP SATLFVKISIQD

>DP00058

MSDAAVDTSSEITTKDLKEKKEVVEEAENGRDAPANGNAQNEENGEQEADNEVDEEEEEGGEEEEEE EEGDGEEEDGDEDEAEAPTGKRVAEDDEDDDVETKKQKKTDEDD

>DP00060

MLNFGKKPAYTTSNGSMYIGDSLELLESFPEESISLVMTSPPFALQRKKEYGNLEQHEYVDWFLSFAKV VNKKLKPDGSFVVDFGGAYMKGVPARSIYNFRVLIRMIDEVGFFLAEDFYWFNPSKLPSPIEWVNKRKI RVKDAVNTVWWFSKTEWPKSDITKVLAPYSDRMKKLIEDPDKFYTPKTRPSGHDIGKSFSKDNGGSIP PNLLQISNSESNGQYLANCKLMGIKAHPARFPAKLPEFFIRMLTEPDDLVVDIFGGSNTTGLVAERESR KWISFEMKPEYVAASAFRFLDNNISEEKITDIYNRILNGESLDLNSII

#### >DP00061

MVGQLSEGAIAAIMQKGDTNIKPILQVINIRPITTGNSPPRYRLLMSDGLNTLSSFMLATQLNPLVEEE QLSSNCVCQIHRFIVNTLKDGRRVVILMELEVLKSAEAVGVKIGNPVPYNEGLGQPQVAPPAPAASPA ASSRPQPQNGSSGMGSTVSKAYGASKTFGKAAGPSLSHTSGGTQSKVVPIASLTPYQSKWTICARVT NKSQIRTWSNSRGEGKLFSLELVDESGEIRATAFNEQVDKFFPLIEVNKVYYFSKGTLKIANKQFTAVKN DYEMTFNNETSVMPCEDDHHLPTVQFDFTGIDDLENKSKDSLVDIIGICKSYEDATKITVRSNNREVAK RNIYLMDTSGKVVTATLWGEDADKFDGSRQPVLAIKGARVSDFGGRSLSVLSSSTIIANPDIPEAYKLR GWFDAEGQALDGVSISDLKSGGVGGSNTNWKTLYEVKSENLGQGDKPDYFSSVATVVYLRKENCM YQACPTQDCNKKVIDQQNGLYRCEKCDTEFPNFKYRMILSVNIADFQENQWVTCFQESAEAILGQN AAYLGELKDKNEQAFEEVFQNANFRSFIFRVRVKVETYNDESRIKATVMDVKPVDYREYGRRLVMSIR RSALM

### >DP00062

MDTKHFLPLDFSTQVNSSLTSPTGRGSMAAPSLHPSLGPGIGSPGQLHSPISTLSSPINGMGPPFSVISS PMGPHSMSVPTTPTLGFSTGSPQLSSPMNPVSSSEDIKPPLGLNGVLKVPAHPSGNMASFTKHICAIC GDRSSGKHYGVYSCEGCKGFFKRTVRKDLTYTCRDNKDCLIDKRQRNRCQYCRYQKCLAMGMKREA VQEERQRGKDRNENEVESTSSANEDMPVERILEAELAVEPKTETYVEANMGLNPSSPNDPVTNICQA ADKQLFTLVEWAKRIPHFSELPLDDQVILLRAGWNELLIASFSHRSIAVKDGILLATGLHVHRNSAHSA GVGAIFDRVLTELVSKMRDMQMDKTELGCLRAIVLFNPDSKGLSNPAEVEALREKVYASLEAYCKHKY PEQPGRFAKLLLRLPALRSIGLKCLEHLFFFKLIGDTPIDTFLMEMLEAPHQMT

>DP00063

ATRLTKKQLAQAIQNTLPNPPRRKRRAKRRAAQVPKPTQAGVSMAPIAQGTMVKLRPPMLRSSMDV TILSHCELSTELAVTVTIVVTSELVMPFTVGTWLRGVAQNWSKYAWVAIRYTYLPSCPTTTSGAIHMGF QYDMADTLPVSVNQLSNLKGYVTGPVWEGQSGLCFVNNTKCPDTSRAITIALDTNEVSEKRYPFKTA TDYATAVGVNANIGNILVPARLVTAMEGGSSKTAVNTGRLYASYTIRLIEPIAAALNL

### >DP00065

>DP00064

MLNRENKTAITRKGMVSNRLNKFSIRKYTVGTASILVGTTLIFGLGNQEAKAAESTNKELNEATTSASD NOSSDKVDMOQLNQEDNTKNDNQKEMVSSQGNETTSNGNKLIEKESVQSTTGNKVEVSTAKSDE QASPKSTNEDLNTKQTISNQEALQPDLQENKSVVNVQPTNEENKKVDAKTESTTLNVKSDAIKSNDE TLVDNNSNSNNENNADIILPKSTAPKRLNTRMRIAAVQPSSTEAKNVNDLITSNTTLTVVDADKNNKI VPAQDYLSLKSQITVDDKVKSGDYFTIKYSDTVQVYGLNPEDIKNIGDIKDPNNGETIATAKHDTANNL ITYTFTDYVDRFNSVOMGINYSIYMDADTIPVSKNDVEFNVTIGNTTTKTTANIQYPDYVVNEKNSIGS AFTETVSHVGNKENPGYYKQTIYVNPSENSLTNAKLKVQAYHSSYPNNIGQINKDVTDIKIYQVPKGY TLNKGYDVNTKELTDVTNQYLQKITYGDNNSAVIDFGNADSAYVVMVNTKFQYTNSESPTLVQMAT LSSTGNKSVSTGNALGFTNNQSGGAGQEVYKIGNYVWEDTNKNGVQELGEKGVGNVTVTVFDNN TNTKVGEAVTKEDGSYLIPNLPNGDYRVEFSNLPKGYEVTPSKQGNNEELDSNGLSSVITVNGKDNLS ADLGIYKPKYNLGDYVWEDTNKNGIODODEKGISGVTVTLKDENGNVLKTVTTDADGKYKFTDLDN GNYKVEFTTPEGYTPTTVTSGSDIEKDSNGLTTTGVINGADNMTLDSGFYKTPKYNLGNYVWEDTNK DGKQDSTEKGISGVTVTLKNENGEVLQTTKTDKDGKYQFTGLENGTYKVEFETPSGYTPTQVGSGTDE GIDSNGTSTTGVIKDKDNDTIDSGFYKPTYNLGDYVWEDTNKNGVQDKDEKGISGVTVTLKDENDKV LKTVTTDENGKYQFTDLNNGTYKVEFETPSGYTPTSVTSGNDTEKDSNGLTTTGVIKDADNMTLDSGF YKTPKYSLGDYVWYDSNKDGKQDSTEKGIKDVKVTLLNEKGEVIGTTKTDENGKYCFDNLDSGKYKVI FEKPAGLTOTGTNTTEDDKDADGGEVDVTITDHDDFTLDNGYYEEETSDSDSDSDSDSDSDSDRDSDS NKAKALPETGNENSGSNNATLFGGLFAALGSLLLFGRRKKQNK

# >DP00066

MNRGFFNMLGRRPFPAPTAMWRPRRRRQAAPMPARNGLASQIQQLTTAVSALVIGQATRPQNPR PRPPPRQKKQAPKQPPKPKKPKPQEKKKKQPAKTKPGKRQRMALKLEADRLFDVKNEDGDVIGHAL AMEGKVMKPLHVKGTIDHPVLSKLKFTKSSAYDMEFAQLPVNMRSEAFTYTSEHPEGFYNWHHGAV QYSGGRFTIPRGVGGRGDSGRPIMDNSGRVVAIVLGGADEGTRTALSVVTWNSKGKTIKTTPEGTEE W

# >DP00071

PDQEMPVYPPAIITPLQDTVTSEGQPARFQCRVSGTDLKVSWYSKDKKIKPSRFFRMTQFEDTYQLEIA EAYPEDEGTYTFVANNAVGQVSSTANLSLEAPESILHERIEQEIEMEMKAAPVIKRKIEPLEVALGHLAK FTCEIQSAPNVRFQWFKAGREIYESDKCSIRSSKYISSLEILRTQVVDCGEYTCKASNEYGSVSCTATLTV TEAYPPTFLSRPKSLTTFVGKAAKFICTVTGTPVIETIWQKDGAALSPSPNWRISDAENKHILELSNLTIQ DRGVYSCKASNKFGADICQAELIIIDKPHFIKELEPVQSAINKKVHLECQVDEDRKVTVTWSKDGQKLP PGKDYKICFEDKIATLEIPLAKLKDSGTYVCTASNEAGSSSCSATVTVREPPSFVKKVDPSYLMLPGESAR LHCKLKGSPVIQVTWFKNNKELSESNTVRMYFVNSEAILDITDVKVEDSGSYSCEAVNDVGSDSCSTEI VIKEPPSFIKTLEPADIVRGTNALLQCEVSGTGPFEISWFKDKKQIRSSKKYRLFSQKSLVCLEIFSFNSAD VGEYECVVANEVGKCGCMATHLLKEPPTFVKKVDDLIALGGQTVTLQAAVRGSEPISVTWMKGQEVI REDGKIKMSFSNGVAVLIIPDVQISFGGKYTCLAENEAGSQTSVGELIVKEPAKIIERAELIQVTAGDPAT LEYTVAGTPELKPKWYKDGRPLVASKKYRISFKNNVAQLKFYSAELHDSGQYTFEISNEVGSSSCETTFT

VLDRDIAPFFTKPLRNVDSVVNGTCRLDCKIAGSLPMRVSWFKDGKEIAASDRYRIAFVEGTASLEIIRV DMNDAGNFTCRATNSVGSKDSSGALIVQEPPSFVTKPGSKDVLPGSAVCLKSTFQGSTPLTIRWFKG NKELVSGGSCYITKEALESSLELYLVKTSDSGTYTCKVSNVAGGVECSANLFVKEPATFVEKLEPSQLLKK GDATQLACKVTGTPPIKITWFANDREIKESSKHRMSFVESTAVLRLTDVGIEDSGEYMCEAQNEAGSD HCSSIVIVKESPYFTKEFKPIEVLKEYDVMLLAEVAGTPPFEITWFKDNTILRSGRKYKTFIODHLVSLQILK FVAADAGEYOCRVTNEVGSSICSARVTLREPPSFIKKIESTSSLRGGTAAFOATLKGSLPITVTWLKDSD EITEDDNIRMTFENNVASLYLSGIEVKHDGKYVCOAKNDAGIORCSALLSVKEPATITEEAVSIDVTOG DPATLQVKFSGTKEITAKWFKDGQELTLGSKYKISVTDTVSILKIISTEKKDSGEYTFEVQNDVGRSSCKA RINVLDLIIPPSFTKKLKKMDSIKGSFIDLECIVAGSHPISIOWFKDDOEISASEKYKFSFHDNTAFLEISOL EGTDSGTYTCSATNKAGHNQCSGHLTVKEPPYFVEKPQSQDVNPNTRVQLKALVGGTAPMTIKWFK DNKELHSGAARSVWKDDTSTSLELFAAKATDSGTYICQLSNDVGTATSKATLFVKEPPQFIKKPSPVLV LRNGOSTTFECOITGTPKIRVSWYLDGNEITAIOKHGISFIDGLATFOISGARVENSGTYVCEARNDAG TASCSIELKVKEPPTFIRELKPVEVVKYSDVELECEVTGTPPFEVTWLKNNREIRSSKKYTLTDRVSVFNLH ITKCDPSDTGEYQCIVSNEGGSCSCSTRVALKEPPSFIKKIENTTTVLKSSATFQSTVAGSPPISITWLKDD QILDEDDNVYISFVDSVATLQIRSVDNGHSGRYTCQAKNESGVERCYAFLLVQEPAQIVEKAKSVDVT EKDPMTLECVVAGTPELKVKWLKDGKQIVPSRYFSMSFENNVASFRIQSVMKQDSGQYTFKVENDF GSSSCDAYLRVLDONIPPSFTKKLTKMDKVLGSSIHMECKVSGSLPISAOWFKDGKEISTSAKYRLVCH ERSVSLEVNNLELEDTANYTCKVSNVAGDDACSGILTVKEPPSFLVKPGRQQAIPDSTVEFKAILKGTPP FKIKWFKDDVELVSGPKCFIGLEGSTSFLNLYSVDASKTGQYTCHVTNDVGSDSCTTMLLVTEPPKFVK KLEASKIVKAGDSSRLECKIAGSPEIRVVWFRNEHELPASDKYRMTFIDSVAVIQMNNLSTEDSGDFICE AONPAGSTSCSTKVIVKEPPVFSSFPPIVETLKNAEVSLECELSGTPPFEVVWYKDKROLRSSKKYKIASK NFHTSIHILNVDTSDIGEYHCKAONEVGSDTCVCTVKLKEPPRFVSKLNSLTVVAGEPAELOASIEGAO PIFVQWLKEKEEVIRESENIRITFVENVATLQFAKAEPANAGKYICQIKNDGGMRENMATLMVLEPAVI VEKAGPMTVTVGETCTLECKVAGTPELSVEWYKDGKLLTSSQKHKFSFYNKISSLRILSVERQDAGTYTF QVQNNVGKSSCTAVVDVSDRAVPPSFTRRLKNTGGVLGASCILECKVAGSSPISVAWFHEKTKIVSGA KYQTTFSDNVCTLQLNSLDSSDMGNYTCVAANVAGSDECRAVLTVQEPPSFVKEPEPLEVLPGKNVT FTSVIRGTPPFKVNWFRGARELVKGDRCNIYFEDTVAELELFNIDISOSGEYTCVVSNNAGOASCTTRL FVKEPAAFLKRLSDHSVEPGKSIILESTYTGTLPISVTWKKDGFNITTSEKCNIVTTEKTCILEILNSTKRDA GQYSCEIENEAGRDVCGALVSTLEPPYFVTELEPLEAAVGDSVSLQCQVAGTPEITVSWYKGDTKLRPT PEYRTYFTNNVATLVFNKVNINDSGEYTCKAENSIGTASSKTVFRIQERQLPPSFARQLKDIEQTVGLPV TLTCRLNGSAPIQVCWYRDGVLLRDHENLQTSFVDNVATLKILQTDLSHSGQYSCSASNPLGTASSS ARLTAREPKKSPFFDIKPVSIDVIAGESADFECHVTGAQPMRITWSKDNKEIRPGGNYTITCVGNTPHL RILKVGKGDSGOYTCOATNDVGKDMCSAOLSVKEPPKFVKKLEASKVAKOGESIOLECKISGSPEIKVS WFRNDSELHESWKYNMSFINSVALLTINEASAEDSGDYICEAHNGVGDASCSTALTVKAPPVFTQKP SPVGALKGSDVILQCEISGTPPFEVVWVKDRKQVRNSKKFKITSKHFDTNLHILNLEASDVGEYHCKAT NEVGSDTCSCSVKFKEPPRFVKKLSDTSTLIGDAVELRAIVEGFQPISVVWLKDRGEVIRESENTRISFID NIATLOLGSPEASNSGKYICOIKNDAGMRECSAVLTVLEPARIIEKPEPMTVTTGNPFALECVVTGTPEL SAKWFKDGRELSADSKHHITFINKVASLKIPCAEMSDKGLYSFEVKNSVGKSNCTVSVHVSDRIVPPSFI RKLKDVNAILGASVVLECRVSGSAPISVGWFQDGNEIVSGPKCQSSFSENVCTLNLSLLEPSDTGIYTC VAANVAGSDECSAVLTVQEPPSFEQTPDSVEVLPGMSLTFTSVIRGTPPFKVKWFKGSRELVPGESCNI SLEDFVTELELFEVQPLESGDYSCLVTNDAGSASCTTHLFVKEPATFVKRLADFSVETGSPIVLEATYTGT PPISVSWIKDEYLISOSERCSITMTEKSTILEILESTIEDYAOYSCLIENEAGODICEALVSVLEPPYFIEPLEH VEAVIGEPATLQCKVDGTPEIRISWYKEHTKLRSAPAYKMQFKNNVASLVINKVDHSDVGEYSCKADN SVGAVASSAVLVIKARKLPPFFARKLKDVHETLGFPVAFECRINGSEPLQVSWYKDGVLLKDDANLQT

SFVHNVATLQILQTDQSHIGQYNCSASNPLGTASSSAKLILSEHEVPPFFDLKPVSVDLALGESGTFKC HVTGTAPIKITWAKDNREIRPGGNYKMTLVENTATLTVLKVGKGDAGOYTCYASNIAGKDSCSAQLG VQEPPRFIKKLEPSRIVKQDEFTRYECKIGGSPEIKVLWYKDETEIQESSKFRMSFVDSVAVLEMHNLSVE DSGDYTCEAHNAAGSASSSTSLKVKEPPIFRKKPHPIETLKGADVHLECELQGTPPFHVSWYKDKRELR SGKKYKIMSENFLTSIHILNVDAADIGEYOCKATNDVGSDTCVGSIALKAPPRFVKKLSDISTVVGKEVO LQTTIEGAEPISVVWFKDKGEIVRESDNIWISYSENIATLQFSRVEPANAGKYTCQIKNDAGMQECFAT LSVLEPATIVEKPESIKVTTGDTCTLECTVAGTPELSTKWFKDGKELTSDNKYKISFFNKVSGLKIINVAPS DSGVYSFEVQNPVGKDSCTASLQVSDRTVPPSFTRKLKETNGLSGSSVVMECKVYGSPPISVSWFHEG NEISSGRKYOTTLTDNTCALTVNMLEESDSGDYTCIATNMAGSDECSAPLTVREPPSFVOKPDPMDV LTGTNVTFTSIVKGTPPFSVSWFKGSSELVPGDRCNVSLEDSVAELELFDVDTSQSGEYTCIVSNEAGK ASCTTHLYIKAPAKFVKRLNDYSIEKGKPLILEGTFTGTPPISVTWKKNGINVTPSORCNITTTEKSPILEIP SSTVEDAGOYNCYIENASGKDSCSAOILILEPPYFVKQLEPVKVSVGDSASLQCQLAGTPEIGVSWYK GDTKLRPTTTYKMHFRNNVATLVFNQVDINDSGEYICKAENSVGEVSASTFLTVQEQKLPPSFSRQLR DVQETVGLPVVFDCAISGSEPISVSWYKDGKPLKDSPNVQTSFLDNTATLNIFKTDRSLAGQYSCTAT NPIGSASSSARLILTEGKNPPFFDIRLAPVDAVVGESADFECHVTGTQPIKVSWAKDSREIRSGGKYQIS YLENSAHLTVLKVDKGDSGOYTCYAVNEVGKDSCTAOLNIKERLIPPSFTKRLSETVEETEGNSFKLEGR VAGSOPITVAWYKNNIEIOPTSNCEITFKNNTLVLOVRKAGMNDAGLYTCKVSNDAGSALCTSSIVIK EPKKPPVFDQHLTPVTVSEGEYVQLSCHVQGSEPIRIQWLKAGREIKPSDRCSFSFASGTAVLELRDVA KADSGDYVCKASNVAGSDTTKSKVTIKDKPAVAPATKKAAVDGRLFFVSEPQSIRVVEKTTATFIAKVG GDPIPNVKWTKGKWRQLNQGGRVFIHQKGDEAKLEIRDTTKTDSGLYRCVAFNEHGEIESNVNLQV DERKKOEKIEGDLRAMLKKTPILKKGAGEEEEIDIMELLKNVDPKEYEKYARMYGITDFRGLLOAFELLK OSOEEETHRLEIEEIERSERDEKEFEELVSFIOORLSOTEPVTLIKDIENOTVLKDNDAVFEIDIKINYPEIKL SWYKGTEKLEPSDKFEISIDGDRHTLRVKNCQLKDQGNYRLVCGPHIASAKLTVIEPAWERHLQDVTL KEGQTCTMTVQFSVPNVKSEWFRNGRILKPQGRHKTEVEHKVHKLTIADVRAEDQGQYTCKYEDLET SAELRIEAEPIQFTKRIQNIVVSEHQSATFECEVSFDDAIVTWYKGPTELTESQKYNFRNDGRCHYMTIH NVTPDDEGVYSVIARLEPRGEARSTAELYLTTKEIKLELKPPDIPDSRVPIPTMPIRAVPPEEIPPVVAPPV PLLLPTPEEKKPPPKRIEVTKKAVKKDAKKVVAKPKEMTPREEIVKKPPPPTTLIPAKAPEIIDVSSKAEEVK IMTITRKKEVOKEKEAVYEKKOAVHKEKRVFIESFEEPYDELEVEPYTEPFEOPYYEEPDEDYEEIKVEAKK EVHEEWEEDFEEGQEYYEREEGYDEGEEEWEEAYQEREVIQVQKEVYEESHERKVPAKVPEKKAPPPP KVIKKPVIEKIEKTSRRMEEEKVOVTKVPEVSKKIVPOKPSRTPVOEEVIEVKVPAVHTKKMVISEEKMFF ASHTEEEVSVTVPEVOKEIVTEEKIHVAVSKRVEPPPKVPELPEKPAPEEVAPVPIPKKVEPPAPKVPEVP KKPVPEEKKPVPVPKKEPAAPPKVPEVPKKPVPEEKIPVPVAKKKEAPPAKVPEVQKGVVTEEKITIVTQR EESPPPAVPEIPKKKVPEERKPVPRKEEEVPPPPKVPALPKKPVPEEKVAVPVPVAKKAPPPRAEVSKKTV VEEKRFVAEEKLSFAVPQRVEVTRHEVSAEEEWSYSEEEEGVSISVYREEEREEEEAEVTEYEVMEEPEE YVVEEKLHIISKRVEAEPAEVTERQEKKIVLKPKIPAKIEEPPPAKVPEAPKKIVPEKKVPAPVPKKEKVPPP KVPEEPKKPVPEKKVPPKVIKMEEPLPAKVTEKHMQITQEEKVLVAVTKKEAPPKARVPEEPKRAVPEEK VLKLKPKREEEPPAKVTEFRKRVVKEEKVSIEAPKREPOPIKEVTIMEEKERAYTLEEEAVSVOREEEYEEYE EYDYKEFEEYEPTEEYDOYEEYEEREYERYEEHEEYITEPEKPIPVKPVPEEPVPTKPKAPPAKVLKKAVPEE KVPVPIPKKLKPPPPKVPEEPKKVFEEKIHISITKREKEQVTEPAAKVPMKPKRVVAEEKVPVPRKEVAPP VRVPEVPKELEPEEVAFEEEVVTHVEEYLVEEEEEYIHEEEEFITEEEVVPVIPVKVPEVPRKPVPEEKKPVP VPKKKEAPPAKVPEVPKKPEEKVPVLIPKKEKPPPAKVPEVPKKPVPEEKVPVPVPKKVEAPPAKVPEVP KKPVPEKKVPVPAPKKVEAPPAKVPEVPKKLIPEEKKPTPVPKKVEAPPPKVPKKREPVPVPVALPQEEE VLFEEEIVPEEEVLPEEEEVLPEEEEVLPEEEEIPPEEEEVPPEEEYVPEEEFVPEEEVLPEVKPKV PVPAPVPEIKKKVTEKKVVIPKKEEAPPAKVPEVPKKVEEKRIILPKEEEVLPVEVTEEPEEEPISEEEIPEEPP

SIEEVEEVAPPRVPEVIKKAVPEAPTPVPKKVEAPPAKVSKKIPEEKVPVPVQKKEAPPAKVPEVPKKVPE KKVLVPKKEAVPPAKGRTVLEEKVSVAFROEVVVKERLELEVVEAEVEEIPEEEEFHEVEEYFEEGEFHEV EEFIKLEQHRVEEEHRVEKVHRVIEVFEAEEVEVFEKPKAPPKGPEISEKIIPPKKPPTKVVPRKEPPAKVPE VPKKIVVEEKVRVPEEPRVPPTKVPEVLPPKEVVPEKKVPVPPAKKPEAPPPKVPEAPKEVVPEKKVPVP PPKKPEVPPTKVPEVPKAAVPEKKVPEAIPPKPESPPPEVFEEPEESPSAPPKKPEVPPVRVPEVPKEVVP EKKVPAAPPKKPEVTPVKVPEAPKEVVPEKKVPVPPPKKPEVPPTKVPEVPKVAVPEKKVPEAIPPKPES PPPEVFEEPEEVALEEPPAEVVEEPEPAAPPOVTVPPKNPVPEKKAPAVVAKKPELPPVKVPEVPKEVVP EKKVPLVVPKKPEAPPAKVPEVPKEVVPEKKVAVPKKPEVPPAKVPEVPKKPVLEEKPAVPVPERAESPP PEVYEEPEEIAPEEEIAPEEEKPVPVAEEEEPEVPPPAVPEEPKKIIPEKKVPVIKKPEAPPPKEPEPEKVIEKP KLKPRPPPPPPAPPKEDVKEKIFQLKAIPKKKVPENPQVPEKVELTPLKVPGGEKKVRKLLPERKPEPKEE VVLKSVLRKRPEEEEPKVEPKKLEKVKKPAVPEPPPPKPVEEVEVPTVTKRERKIPEPTKVPEIKPAIPLPAP EPKPKPEAEVKTIKPPPVEPEPTPIAAPVTVPVVGKKAEAKAPKEEAAKPKGPIKGVPKKTPSPIEAERRKL RPGSGGEKPPDEAPFTYOLKAVPLKFVKEIKDIILTESEFVGSSAIFECLVSPSTAITTWMKDGSNIRESPK HRFIADGKDRKLHIIDVOLSDAGEYTCVLRLGNKEKTSTAKLVVEELPVRFVKTLEEEVTVVKGOPLYLS CELNKERDVVWRKDGKIVVEKPGRIVPGVIGLMRALTINDAD 

```
2222222222
```

### >DP00073

MPVAGSELPRRPLPPAAQERDAEPRPPHGELQYLGQIQHILRCGVRKDDRTGTGTLSVFGMQARYSL RDEFPLLTTKRVFWKGVLEELLWFIKGSTNAKELSSKGVKIWDANGSRDFLDSLGFSTREEGDLGPVYG FQWRHFGAEYRDMESDYSGQGVDQLQRVIDTIKTNPDDRRIIMCAWNPRDLPLMALPPCHALCQF YVVNSELSCQLYQRSGDMGLGVPFNIASYALLTYMIAHITGLKPGDFIHTLGDAHIYLNHIEPLKIQLQR EPRPFPKLRILRKVEKIDDFKAEDFQIEGYNPHPTIKMEMAV

>DP00074

MTMTLHTKASGMALLHQIQGNELEPLNRPQLKIPLERPLGEVYLDSSKPAVYNYPEGAAYEFNAAAA ANAQVYGQTGLPYGPGSEAAAFGSNGLGGFPPLNSVSPSPLMLLHPPPPQLSPFLQPHGQQVPYYLE NEPSGYTVREAGPPAFYRPNSDNRRQGGRERLASTNDKGSMAMESAKETRYCAVCNDYASGYHYG VWSCEGCKAFFKRSIQGHNDYMCPATNQCTIDKNRRKSCQACRLRKCYEVGMMKGGIRKDRRGGR MLKHKRORDDGEGRGEVGSAGDMRAANLWPSPLMIKRSKKNSLALSLTADOMVSALLDAEPPILYS EYDPTRPFSEASMMGLLTNLADRELVHMINWAKRVPGFVDLTLHDQVHLLECAWLEILMIGLVWRS MEHPGKLLFAPNLLLDRNOGKCVEGMVEIFDMLLATSSRFRMMNLOGEEFVCLKSIILLNSGVYTFLSS TLKSLEEKDHIHRVLDKITDTLIHLMAKAGLTLQQQHQRLAQLLLILSHIRHMSNKGMEHLYSMKCKN VVPLYDLLLEMLDAHRLHAPTSRGGASVEETDOSHLATAGSTSSHSLOKYYITGEAEGFPATV 

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

>DP00076

MSTEPVSASDKYQKISQLEHILKRPDTYIGSVETQEQLQWIYDEETDCMIEKNVTIVPGLFKIFDEILVNA ADNKVRDPSMKRIDVNIHAEEHTIEVKNDGKGIPIEIHNKENIYIPEMIFGHLLTSSNYDDDEKKVTGGR NGYGAKLCNIFSTEFILETADLNVGQKYVQKWENNMSICHPPKITSYKKGPSYTKVTFKPDLTRFGMKE LDNDILGVMRRRVYDINGSVRDINVYLNGKSLKIRNFKNYVELYLKSLEKKRQLDNGEDGAAKSDIPTIL YERINNRWEVAFAVSDISFQQISFVNSIATTMGGTHVNYITDQIVKKISEILKKKKKKSVKSFQIKNNMFI FINCLIENPAFTSQTKEQLTTRVKDFGSRCEIPLEYINKIMKTDLATRMFEIADANEENALKKSDGTRKSR ITNYPKLEDANKAGTKEGYKCTLVLTEGDSALSLAVAGLAVVGRDYYGCYPLRGKMLNVREASADOIL KNAEIQAIKKIMGLQHRKKYEDTKSLRYGHLMIMTDQDHDGSHIKGLIINFLESSFPGLLDIQGFLLEFIT PIIKVSITKPTKNTIAFYNMPDYEKWREESHKFTWKOKYYKGLGTSLAOEVREYFSNLDRHLKIFHSLO GNDKDYIDLAFSKKKADDRKEWLRQYEPGTVLDPTLKEIPISDFINKELILFSLADNIRSIPNVLDGFKPG ORKVLYGCFKKNLKSELKVAOLAPYVSECTAYHHGEOSLAOTIIGLAONFVGSNNIYLLLPNGAFGTR ATGGKDAAAARYIYTELNKLTRKIFHPADDPLYKYIQEDEKTVEPEWYLPILPMILVNGAEGIGTGWSTY IPPFNPLEIIKNIRHLMNDEELEQMHPWFRGWTGTIEEIEPLRYRMYGRIEQIGDNVLEITELPARTWTST IKEYLLLGLSGNDKIKPWIKDMEEQHDDNIKFIITLSPEEMAKTRKIGFYERFKLISPISLMNMVAFDPHG KIKKYNSVNEILSEFYYVRLEYYQKRKDHMSERLQWEVEKYSFQVKFIKMIIEKELTVTNKPRNAIIQELE NLGFPRFNKEGKPYYGSPNDEIAEQINDVKGATSDEEDEESSHEDTENVINGPEELYGTYEYLLGMRIW SLTKERYQKLLKQKQEKETELENLLKLSAKDIWNTDLKAFEVGYQEFLQRDAEARGGNVPNKGSKTKG KGKRKLVDDEDYDPSKKNKKSTARKGKKIKLEDKNFERILLEQKLVTKSKAPTKIKKEKTPSVSETKTEEEE NAPSSTSSSSIFDIKKEDKDEGELSKISNKFKKISTIFDKMGSTSATSKENTPEQDDVATKKNQTTAKKTA VKPKLAKKPVRKQQKVVELSGESDLEILDSYTDREDSNKDEDDAIPQRSRRQRSSRAASVPKKSYVETL ELSDDSFIEDDEEENQGSDVSFNEED

111

>DP00077

MANVEKPNDCSGFPVVDLNSCFSNGFNNEKQEIEMETDDSPILLMSSSASRENSNTFSVIQRTPDGKI ITTNNNMNSKINKQLDKLPENLRLNGRTPSGKLRSFVCEVCTRAFARQEHLKRHYRSHTNEKPYPCGL CNRCFTRRDLLIRHAQKIHSGNLGETISHTKKVSRTITKARKNSASSVKFQTPTYGTPDNGNFLNRTTA NTRRKASPEANVKRKYLKKLTRRASFSAQSASSYALPDQSSLEQHPKDRVKFSTPELVPLDLKNPELDS SFDLNMNLDLNLNLDSNFNIALNRSDSSGSTMNLDYKLPESANNYTYSSGSPTRAYVGANTNSKNA SFNDADLLSSSYWIKAYNDHLFSVSESDETSPMNSELNDTKLIVPDFKSTIHHLKDSRSSSWTVAIDNN SNNNKVSDNOPDFVDFOELLDNDTLGNDLLETTAVLKEFELLHDDSVSATATSNEIDLSHLNLSNSPI SPHKLIYKNKEGTNDDMLISFGLDHPSNREDDLDKLCNMTRDVQAIFSQYLKGEESKRSLEDFLSTSN RKEKPDSGNYTFYGLDCLTLSKISRALPASTVNNNOPSHSIESKLFNEPMRNMCIKVLRYYEKFSHDSS ESVMDSNPNLLSKELLMPAVSELNEYLDLFKNNFLPHFPIIHPSLLDLDLDSLQRYTNEDGYDDAENA OLFDRLSOGTDKEYDYEHYOILSISKIVCLPLFMATFGSLHKFGYKSOTIELYEMSRRILHSFLETKRRCRS TTVNDSYQNIWLMQSLILSFMFALVADYLEKIDSSLMKRQLSALCSTIRSNCLPTISANSEKSINNNNEP LTFGSPLOYIIFESKIRCTLMAYDFCOFLKCFFHIKFDLSIKEKDVETIYIPDNESKWASESIICNGHVVOK ONFYDFRNFYYSFTYGHLHSIPEFLGSSMIYYEYDLRKGTKSHVFLDRIDTKRLERSLDTSSYGNDNMA ATNKNIAILIDDTIILKNNLMSMRFIKQIDRSFTEKVRKGQIAKIYDSFLNSVRLNFLKNYSVEVLCEFLVA LNFSIRNISSLYVEEESDCSQRMNSPELPRIHLNNQALSVFNLQGYYYCFILIIKFLLDFEATPNFKLLRIFIE LRSLANSILLPTLSRLYPQEFSGFPDVVFTQQFINKDNGMLVPGLSANEHHNGASAAVKTKLAKKINVE GLAMFINEILVNSFNDTSFLNMEDPIRNEFSFDNGHRAVTDLPRSAHFLSDTGLEGINFSGLNDSHOT VSTLNLLRYGENHSSKHKNGGKGQGFAEKYQLSLKYVTIAKLFFTNVKENYIHCHMLDKMASDFHTLE **NHLKGNS** 

# >DP00078

MMFSGFNADYEASSSRCSSASPAGDSLSYYHSPADSFSSMGSPVNAQDFCTDLAVSSANFIPTVTAIS TSPDLQWLVQPALVSSVAPSQTRAPHPFGVPAPSAGAYSRAGVVKTMTGGRAQSIGRRGKVEQLSP EEEEKRRIRRERNKMAAAKCRNRRRELTDTLQAETDQLEDEKSALQTEIANLLKEKEKLEFILAAHRPAC KIPDDLGFPEEMSVASLDLTGGLPEVATPESEEAFTLPLLNDPEPKPSVEPVKSISSMELKTEPFDDFLFP ASSRPSGSETARSVPDMDLSGSFYAADWEPLHSGSLGMGPMATELEPLCTPVVTCTPSCTAYTSSFVF TYPEADSFPSCAAAHRKGSSSNEPSSDSLSSPTLLAL

### >DP00079

MDIKNSPSSLNSPSSYNCSQSILPLEHGSIYIPSSYVDSHHEYPAMTFYSPAVMNYSIPSNVTNLEGGP GRQTTSPNVLWPTPGHLSPLVVHRQLSHLYAEPQKSPWCEARSLEHTLPVNRETLKRKVSGNRCASP VTGPGSKRDAHFCAVCSDYASGYHYGVWSCEGCKAFFKRSIOGHNDYICPATNOCTIDKNRRKSCO ACRLRKCYEVGMVKCGSRRERCGYRLVRRQRSADEQLHCAGKAKRSGGHAPRVRELLLDALSPEQL VLTLLEAEPPHVLISRPSAPFTEASMMMSLTKLADKELVHMISWAKKIPGFVELSLFDQVRLLESCWME VLMMGLMWRSIDHPGKLIFAPDLVLDRDEGKCVEGILEIFDMLLATTSRFRELKLQHKEYLCVKAMILL NSSMYPLVTATQDADSSRKLAHLLNAVTDALVWVIAKSGISSQQQSMRLANLLMLLSHVRHASNKG MEHLLNMKCKNVVPVYDLLLEMLNAHVLRGCKSSITGSECSPAEDSKSKEGSQNPQSQ 11111

### >DP00080

MTMESGAENQQSGDAAVTEAENQQMTVQAQPQIATLAQVSMPAAHATSSAPTVTLVQLPNGQT VQVHGVIQAAQPSVIQSPQVQTVQSSCKDLKRLFSGTQISTIAESEDSQESVDSVTDSQKRREILSRRP SYRKILNDLSSDAPGVPRIEEEKSEEETSAPAITTVTVPTPIYQTSSGQYIAITQGGAIQLANNGTDGVQ GLQTLTMTNAAATQPGTTILQYAQTTDGQQILVPSNQVVVQAASGDVQTYQIRTAPTSTIAPGVVM ASSPALPTQPAEEAARKREVRLMKNREAARECRRKKKEYVKCLENRVAVLENQNKTLIEELKALKDLYC HKSD

### >DP00081

MEMESDNSDDEGSIGNGLDLTGILFGNIDSEGRLLQDDDGEGRGGTGFDAELRENIGSLSKLGLDSM LLEVIDLKEAEPPSDDEEEEDARPSAVSASGGMSAFDALKAGVKREEREDGAVKAQDDAIDYSDITELS EDCPRTPPEETSTYDDLEDAIPASKVEAKLTKDDKELMPPPSAPMRSGSGGGIEEPAKSNDASSPSDDS KSTDSKDADRKLDTPLADILPSKYQNVDVRELFPDFRPQKVLRFSRLFGPGKPTSLPQIWRHVRQSRRK RNQSRDQKTTNTGGSDSPSDTEEPRKRGFSLHYAAEPTPAECMSDDEDKLLGDFNSEDVRPEGPDN GENSDQKPKVADWRFGPAQIWYDILEVPDSGEGFNYGFKTKAASTSSQQQLKDERRVKSPEDDVED PSIADDAFLMVSQLHWEDDVVWDGNDIKAKVLQKLNSKTNAAGWLPSSGSRTAGAFSQPGKPSM PVGSGSSKQGSGASSKKAQQNAQAKPAEAPDDTWYSLFPVENEELIYYKWEDEVIWDAQQVSKVPK PKVLTLDPNDENIILGIPDDIDPSKINKSTGPPPKIKIPHPHVKKSKILLGKAGVINVLAEDTPPPPPKSPDR

DPFNISNDTYYTPKTEPTLRLKVGGNLIQHSTPVVELRAPFVPTHMGPMNVRAFHRPPLKKYSHGPM AOSIPHPVFPLLKTIAKKAKOREVERIASGGGDVFFMRNPEDLSGRDGDIVLAEFCEEHPPLINOVGMC SKIKNYYKRKAEKDSGPQDYVYGEVAFAHTSPFLGILHPGQCIQAIENNMYRAPIYPHKMAHNDFLVI RTRNNYWIRSVNSIYTVGQECPLYEVPGPNSKRANNFTRDFLQVFIYRLFWKSRDNPRRIRMDDIKQA FPAHSESSIRKRLKQCADFKRTGMDSNWWVIKPEFRLPSEEEIRAMVSPEQCCAYFSMIAAEQRLKDA GYGEKFLFAPQEDDDEEAQLKLDDEVKVAPWNTTRAYIQAMRGKCLLQLSGPADPTGCGEGFSYVR VPNKPTOTKEEQESOPKRSVTGTDADLRRLPLQRAKELLRQFKVPEEEIKKLSRWEVIDVVRTLSTEKAK AGEEGMDKFSRGNRFSIAEHQERYKEECQRIFDLQNRVLASSEVLSTDEAESSASEESDLEELGKNLEN MLSNKKTSTOLSREREELEROELLROLDEEHGGPSGSGGAKGAKGKDDPGOOMLATNNOGRILRITR TFRGNDGKEYTRVETVRRQPVIDAYIKIRTTKDEQFIKQFATLDEQQKEEMKREKRRIQEQLRRIKRNQE RERLAQLAONOKLOPGGMPTSLGDPKSSGGHSHKERDSGYKEVSPSRKKFKLKPDLKLKCGACGOV GHMRTNKACPLYSGMOSSLSOSNPSLADDFDEOSEKEMTMDDDDLVNVDGTKVTLSSKILKRHGG DDGKRRSGSSSGFTLKVPRDAMGKKKRRVGGDLHCDYLQRHNKTANRRRTDPVVVLSSILEIIHNELR SMPDVSPFLFPVSAKKVPDYYRVVTKPMDLQTMREYIRQRRYTSREMFLEDLKQIVDNSLIYNGPQSA YTLAAQRMFSSCFELLAEREDKLMRLEKAINPLLDDDDQVALSFIFDKLHSQIKQLPESWPFLKPVNKK OVKDYYTVIKRPMDLETIGKNIEAHRYHSRAEYLADIELIATNCEOYNGSDTRYTKFSKKILEYAQTQLIE FSEHCGOLENNIAKTOERARENAPEFDEAWGNDDYNFDRGSRASSPGDDYIDVEGHGGHASSSNSI HRSMGAEAGSSHTAPAVRKPAPPGPGEVKRGRGRPRKQRDPVEEDLQCSTDDEDDDEEEDFQEVSE DENNAASILDQGERINAPADAMDGMFDPKNIKTEIDLEAHQMADESMDVDPNYDPSDFLAMHKQ RQSLGEPSSLQGAFTNFLSHEQDDNGPYNPAEASTSAASGADLGMDASMAMQMAPEMPVNTMN NGMGIDDDLDISESDEEDDGSRVRIKKEVFDDGDYALOHOOMGOAASOSOIYMVDSSNEPTTLDY OOPPOLDFOOVOEMEOLOHOVMPPMOSEOLOOOOTPOGDNDYAWTF 

### >DP00082

MTDETAHPTQSASKQESAALKQTGDDQQESQQQRGYTNYNNGSNYTQKKPYNSNRPHQQRGGK FGPNRYNNRGNYNGGGSFRGGHMGANSSNVPWTGYYNNYPVYYQPQQMAAAGSAPANPIPVEE KSPVPTKIEITTKSGEHLDLKEQHKAKLQSQERSTVSPQPESKLKETSDSTSTSTPTPTPSTNDSKASSEE NISEAEKTRRNFIEOVKLRKAALEKKRKEOLEGSSGNNNIPMKTTPENVEEKGSDKPEVTEKTKPAEEKS AEPEVKQETPAEEGEQGEKGQIKEESTPKVLTFAERLKLKKQQKEREEKTEGKENKEVPVQEETKSAIES APVPPSEQVKEETEVAETEQSNIDESATTPAIPTKSDEAEAEVEAEAGDAGTKIGLEAEIETTTDETDDG TNTVSHILNVLKDATPIEDVFSFNYPEGIEGPDIKYKKEHVKYTYGPTFLLQFKDKLNVKADAEWVQST ASKIVIPPGMGRGNRSRDSGRFGNNSSRGHDFRNTSVRNMDDRANSRTSSKRRSKRMNDDRRSNR SYTSRRDRERGSYRNEEKREDDKPKEEVAPLVPSANRWVPKFKSKKTEKKLAPDGKTELLDKDEVERK MKSLLNKLTLEMFDAISSEILAIANISVWETNGETLKAVIEOIFLKACDEPHWSSMYAOLCGKVVKELNP DITDETNEGKTGPKLVLHYLVARCHAEFDKGWTDKLPTNEDGTPLEPEMMSEEYYAAASAKRRGLGL VRFIGFLYRLNLLTGKMMFECFRRLMKDLTDSPSEETLESVVELLNTVGEQFETDSFRTGQATLEGSQLL DSLFGILDNIIQTAKISSRIKFKLIDIKELRHDKNWNSDKKDNGPKTIQQIHEEEERQRQLKNNSRSNSRR TNNSSNRHSFRRDAPPASKDSFITTRTYSORNSORAPPPKEEPAAPTSTATNMFSALMGESDDEE 

#### >DP00083

MSEYQPSLFALNPMGFSPLDGSKSTNENVSASTSTAKPMVGQLIFDKFIKTEEDPIIKQDTPSNLDFDF ALPQTATAPDAKTVLPIPELDDAVVESFFSSSTDSTPMFEYENLEDNSKEWTSLFDNDIPVTTDDVSLA DKAIESTEEVSLVPSNLEVSTTSFLPTPVLEDAKLTQTRKVKKPNSVVKKSHHVGKDDESRLDHLGVVA YNRKQRSIPLSPIVPESSDPAALKRARNTEAARRSRARKLQRMKQLEDKVEELLSKNYHLENEVARLKK LVGER

### >DP00085

MDELFPLIFPAEPAQASGPYVEIIEQPKQRGMRFRYKCEGRSAGSIPGERSTDTTKTHPTIKINGYTGPG TVRISLVTKDPPHRPHPHELVGKDCRDGFYEAELCPDRCIHSFQNLGIQCVKKRDLEQAISQRIQTNN NPFQVPIEEQRGDYDLNAVRLCFQVTVRDPSGRPLRLPPVLPHPIFDNRAPNTAELKICRVNRNSGSC LGGDEIFLLCDKVQKEDIEVYFTGPGWEARGSFSQADVHRQVAIVFRTPPYADPSLQAPVRVSMQLR RPSDRELSEPMEFQYLPDTDDRHRIEEKRKRTYETFKSIMKKSPFSGPTDPRPPPRRIAVPSRSSASVPKP APQPYPFTSSLSTINYDEFPTMVFPSGQISQASALAPAPPQVLPQAPAPAPAPAMVSALAQAPAPVP VLAPGPPQAVAPPAPKPTQAGEGTLSEALLQLQFDDEDLGALLGNSTDPAVFTDLASVDNSEFQQLL NQGIPVAPHTTEPMLMEYPEAITRLVTGAQRPPDPAPAPLGAPGLPNGLLSGDEDFSSIADMDFSALL SOISS

### >DP00086

# >DP00087

MDLLVDDLFADADGVSPPPPRPAGGPKNTPAAPPLYATGRLSQAQLMPSPPMPVPPAALFNRLLDD LGFSAGPALCTMLDTWNEDLFSGFPTNADMYRECKFLSTLPSDVIDWGDAHVPERSPIDIRAHGDVA FPTLPATRDELPSYYEAMAQFFRGELRAREESYRTVLANFCSALYRYLRASVRQLHRQAHMRGRNRD LREMLRTTIADRYYRETARLARVLFLHLYLFLSREILWAAYAEQMMRPDLFDGLCCDLESWRQLACLF QPLMFINGSLTVRGVPVEARRLRELNHIREHLNLPLVRSAAAEEPGAPLTTPPVLQGNQARSSGYFML LIRAKLDSYSSVATSEGESVMREHAYSRGRTRNNYGSTIEGLLDLPDDDDDAPAEAGLVAPRMSFLSAG QRPRRLSTTAPITDVSLGDELRLDGEEVDMTPADALDDFDLEMLGDVESPSPGMTHDPVSYGALDV DDFEFEOMFTDAMGIDDFGG

>DP00090

>DP00092 A001

GNEASYPLEMCSHFDADEIKRLGKRFKKLDLDNSGSLSVEEFMSLPELQQNPLVQRVIDIFDTDGNGE VDFKEFIEGVSQFSVKGDKEQKLRFAFRIYDMDKDGYISNGELFQVLKMMVGNNLKDTQLQQIVDKTI INADKDGDGRISFEEFCAVVGGLDIHKKMVVDV

>DP00093

KEVEQNSGPLSVPEGAIASLNCTYSDRGSQSFFWYRQYSGKSPELIMSIYSNGDKEDGRFTAQLNKAS QYVSLLIRDSQPSDSATYLCAVTTDSWGKLQFGAGTQVVVTPDIQNPDPAVYQLRDSKSSDKSVCLF TDFDSQTNVSQSKDSDVYITDKTVLDMRSMDFKSNSAVAWSNKSDFACANAFNNSIIPEDTFFPSPE SS

>DP00094

MPTPSAPSPQPKGFRRAVSEQDAKQAEAVTSPRFIGRRQSLIEDARKEREAAAAAAAAAAAAAVASSEPGN PLEAVVFEERDGNAVLNLLFSLRGTKPSSLSRAVKVFETFEAKIHHLETRPAQRPLAGSPHLEYFVRFEVP SGDLAALLSSVRRVSDDVRSAREDKVPWFPRKVSELDKCHHLVTKFDPDLDLDHPGFSDQVYRQRRK LIAEIAFQYKHGEPIPHVEYTAEEIATWKEVYVTLKGLYATHACREHLEGFQLLERYCGYREDSIPQLEDV SRFLKERTGFQLRPVAGLLSARDFLASLAFRVFQCTQYIRHASSPMHSPEPDCCHELLGHVPMLADRT FAQFSQDIGLASLGASDEEIEKLSTVYWFTVEFGLCKQNGELKAYGAGLLSSYGELLHSLSEEPEVRAFD PDTAAVQPYQDQTYQPVYFVSESFNDAKDKLRNYASRIQRPFSVKFDPYTLAIDVLDSPHTIQRSLEG VODELHTLAHALSAIS

MNKNVLKFMVFIMLLNIITPLFNKNEAFAARDISSTNVTDLTVSPSKIEDGGKTTVKMTFDDKNGKIQN GDMIKVAWPTSGTVKIEGYSKTVPLTVKGEQVGQAVITPDGATITFNDKVEKLSDVSGFAEFEVQGRN LTOTNTSDDKVATITSGNKSTNVTVHKSEAGTSSVFYYKTGDMLPEDTTHVRWFLNINNEKSYVSKDI TIKDQIQGGQQLDLSTLNINVTGTHSNYYSGQSAITDFEKAFPGSKITVDNTKNTIDVTIPQGYGSYNS FSINYKTKITNEOOKEFVNNSOAWYOEHGKEEVNGKSFNHTVHNINANAGIEGTVKGELKVLKODK DTKAPIANVKFKLSKKDGSVVKDNQKEIEIITDANGIANIKALPSGDYILKEIEAPRPYTFDKDKEYPFTM KDTDNQGYFTTIENAKAIEKTKDVSAQKVWEGTQKVKPTIYFKLYKQDDNQNTTPVDKAEIKKLEDGT TKVTWSNLPENDKNGKAIKYLVKEVNAQGEDTTPEGYTKKENGLVVTNTEKPIETTSISGEKVWDDKD NQDGKRPEKVSVNLLANGEKVKTLDVTSETNWKYEFKDLPKYDEGKKIEYTVTEDHVKDYTTDINGTTI TNKYTPGETSATVTKNWDDNNNQDGKRPTEIKVELYQDGKATGKTAILNESNNWTHTWTGLDEKA KGQQVKYTVEELTKVKGYTTHVDNNDMGNLIVTNKYTPETTSISGEKVWDDKDNQDGKRPEKVSVN LLADGEKVKTLDVTSETNWKYEFKDLPKYDEGKKIEYTVTEDHVKDYTTDINGTTITNKYTPGETSATVT KNWDDNNNQDGKRPTEIKVELYQDGKATGKTAILNESNNWTHTWTGLDEKAKGQQVKYTVEELTK VKGYTTHVDNNDMGNLIVTNKYTPETTSISGEKVWDDKDNODGKRPEKVSVNLLANGEKVKTLDVT SETNWKYEFKDLPKYDEGKKIEYTVTEDHVKDYTTDINGTTITNKYTPGETSATVTKNWDDNNNQDG KRPTEIKVELYQDGKATGKTAILNESNNWTHTWTGLDEKAKGQQVKYTVDELTKVNGYTTHVDNND MGNLIVTNKYTPKKPNKPIYPEKPKDKTPPTKPDHSNKVKPTPPDKPSKVDKDDQPKDNKTKPENPLK **ELPKTGMKIITSWITWVFIGILGLYLILRKRFNS** 

>DP00101

GARASVLSGGELDKWEKIRLRPGGKKQYKLKHIVWASRELERFAVNPGLLETSEGCRQILGQLQPSLQ TGSEELRSLYNTIAVLYCVHQRIDVKDTKEALDKIEEEQNKSKKKAQQAAADTGNNSQVSQNYPIVQ NLQGQMVHQAISPRTLNAWVKVVEEKAFSPEVIPMFSALSEGATPQDLNTMLNTVGGHQAAMQM LKETINEEAAEWDRLHPVHAGPIAPGQMREPRGSDIAGTTSTLQEQIGWMTHNPPIPVGEIYKRWIIL GLNKIVRMYSPTSILDIRQGPKEPFRDYVDRFYKTLRAEQASQEVKNWMTETLLVQNANPDCKTILKA

LGPGATLEEMMTACQGVGGPGHKARVLAEAMSQVTNPATIMIQKGNFRNQRKTVKCFNCGKEGHI AKNCRAPRKKGCWKCGKEGHQMKDCTERQANFLGKIWPSHKGRPGNFLQSRPEPTAPPEESFRFGE ETTTPSQKQEPIDKELYPLASLRSLFGSDPSSQ

>DP00102

MSQKPLSDDEKFLFVDKNFVNNPLAQADWSAKKLVWVPSEKHGFEAASIKEEKGDEVTVELQENGK KVTLSKDDIQKMNPPKFSKVEDMAELTCLNEASVLHNLRERYFSGLIYTYSGLFCVVINPYKQLPIYSEKI IDMYKGKKRHEMPPHIYAIADTAYRSMLQDREDQSILCTGESGAGKTENTKKVIQYLAVVASSHKGKK DTSITQGPSFSYGELEKQLLQANPILEAFGNAKTVKNDNSSRFGKFIRINFDVTGYIVGANIETYLLEKSR AIRQAKDERTFHIFYYLIAGASEQMRNDLLLEGFNNYTFLSNGHVPIPAQQDDEMFQETLEAMTIMGF TEEEQTSILRVVSSVLQLGNIVFKKERNTDQASMPDNTAAQKVCHLMGINVTDFTRSILTPRIKVGRDV VOKAOTKEOADFAIEALAKAKFERLFRWILTRVNKALDKTKROGASFLGILDIAGFEIFEINSFEOLCINY TNEKLQQLFNHTMFILEQEEYQREGIEWNFIDFGLDLQPCIELIERPTNPPGVLALLDEECWFPKATDTS FVEKLIQEQQNHAKFQKSKQLKDKTEFCILHYAGKVTYNASAWLTKNMDPLNDNVTSLLNQSSDKFV ADLWKDVDRIVGLDQMAKMTESSLPSASKTKKGMFRTVGQLYKEQLTKLMTTLRNTNPNFVRCIIPN HEKRAGKLDAHLVLEQLRCNGVLEGIRICRQGFPNRIVFQEFRQRYEILAANAIPKGFMDGKQACILMI KALELDPNLYRIGOSKIFFRTGVLAHLEEERDLKITDVIIAFOAQCRGYLARKAFAKRQQQLTAMLVIQR NCAAYLKLRNWQWWRLFTKVKPLLQVTRQEEEMQAKDEELQRTKERQQKAEAELKELEQKHTQLC EEKNLLQEKLQAETELYAEAEEMRVRLAAKKQELEEILHEMEARIEEEEERSQQLQAEKKKMQQQMLD LEEQLEEEEAARQKLQLEKVTADGKIKKMEDDILIMEDQNNKLTKERKLLEERVSDLTTNLAEEEEKAKN LTKLKNKHESMISELEVRLKKEEKSROELEKIKRKLEGESSDLHEQIAELQAQIAELKAQLAKKEEELQAAL ARLEDETSOKNNALKKIRELESHISDLOEDLESEKAARNKAEKOKRDLSEELEALKTELEDTLDTTATOO ELRAKREQEVTVLKRALEEETRTHGAQVQEMRQKHTQAVEELTEQLEQFKRAKANLDKTKQTLEKDN ADLANEIRSLSQAKQDVEHKKKKLEVQLQDLQSKYSDGERVRTELNEKVHKLQIEVENVTSLLNEAES KNIKLTKDVATLGSQLQDTQELLQEETRQKLNVTTKLRQLEDDKNSLQEQLDEEVEAKQNLERHISTLT IQLSDSKKKLQEFTATVETMEEGKKKLQREIESLTQQFEEKAASYDKLEKTKNRLQQELDDLVVDLDNQ ROLVSNLEKKOKKFDOMLAEEKNISSKYADERDRAEAEAREKETKALSLARALEEALEAKEELERTNKM LKAEMEDLVSSKDDVGKNVHELEKSKRTLEQQVEEMKTQLEELEDELQAAEDAKLRLEVNMQAMKS QFERDLQARDEQNEEKRRQLLKQLHEHETELEDERKQRALAAAAKKKLEVDVKDLESQVDSANKARE EAIKQLRKLQAQMKDYQRDLDDARAAREEIFATARENEKKAKNLEAELIQLQEDLAAAERARKQADL EKEEMAEELASANSGRTSLODEKRRLEARIAOLEEELDEEHSNIETMSDRMRKAVOOAEOLNNELATE RATAOKNENAROOLERONKELRSKLOEMEGAVKSKFKSTIAALEAKIASLEEOLEOEAREKOAAAKTL RQKDKKLKDALLQVEDERKQAEQYKDQAEKGNLRLKQLKRQLEEAEEESQRINANRRKLQRELDEAT ESNDALGREVAALKSKLRRGNEPVSFAPPRRSGGRRVIENATDGGEEEIDGRDGDFNGKASE 

#### >DP00104

MSNAEASRVYEIIVESVVNEVREDFENAGIDEQTLQDLKNIWQKKLTETKVTTFSWDNQFNEGNING VQNDLNFNLATPGVNSSEFNIKEENTGNEGLILPNINSNNNIPHSGETNINTNTVEATNNSGATLNT NTSGNTNADVTSQPKIEVKPEIELTINNANITTVENIDDESEKKDDEEKEEDVEKTRKEKEQIEQVKLQA KKEKRSALLDTDEVGSELDDSDDDYLISEGEEDGPDENLMLCLYDKVTRTKARWKCSLKDGVVTINRN DYTFQKAQVEAEWV

AYTTFSQTKNDQLKEPMFFGQPVNVARYDQQKYDIFEKLIEKQLSFFWRPEEVDVSRDRIDYQALPEH EKHIFISNLKYQTLLDSIQGRSPNVALLPLISIPELETWVETWAFSETIHSRSYTHIIRNIVNDPSVVFDDIV TNEQIQKRAEGISSYYDELIEMTSYWHLLGEGTHTVNGKTVTVSLRELKKKLYLCLMSVNALEAIRFYVS FACSFAFAERELMEGNAKIIRLIARDEALHLTGTQHMLNLLRSGADDPEMAEIAEECKQECYDLFVQA AQQEKDWADYLFRDGSMIGLNKDILCQYVEYITNIRMQAVGLDLPFQTRSNPIPWINTWLVSDNVQ VAPQEVEVSSYLVGQIDSEVDTDDLSNFQL

MKAAVDLKPTLTIIKTEKVDLELFPSPDMECADVPLLTPSSKEMMSQALKATFSGFTKEQQRLGIPKDP RQWTETHVRDWVMWAVNEFSLKGVDFQKFCMSGAALCALGKECFLELAPDFVGDILWEHLEILQKE DVKPYQVNGANPTYPESCYTSDYFISYGIEHAQCVPPSEFSEPSFITESYQTLHPISSEELLSLKYENDYPS VILQDPLQTDTLQTDYFAIKQEVLTPDNMCLGRASRGKLGGQDSFESVESYDSCDRLTQSWSSQSSF NSLQRVPSYDSFDYEDYPAALPNHKPKGTFKDYVRDRADLNKDKPVIPAAALAGYTGSGPIQLWQFL LELLTDKSCQSFISWTGDGWEFKLSDPDEVARRWGKRKNKPKMNYEKLSRGLRYYYDKNIIHKTAGKR YVYRFVCDLOSLLGYTPEELHAMLDVKPDAD

MSSSTPFDPYALSEHDEERPQNVQSKSRTAELQAEIDDTVGIMRDNINKVAERGERLTSIEDKADNLA VSAQGFKRGANRVRKAMWYKDLKMKMCLALVIIILLVVIIVPIAVHFSR

>DP00117

MRSAAVLALLLCAGQVIALPVNSPMNKGDTEVMKCIVEVISDTLSKPSPMPVSKECFETLRGDERILSIL RHQNLLKELQDLALQGAKERTHQQKKHSSYEDELSEVLEKPNDQAEPKEVTEEVSSKDAAEKRDDFK EVEKSDEDSDGDRPQASPGLGPGPKVEEDNQAPGEEEEAPSNAHPLASLPSPKHPGPQAKEDSEGPS QGPASREKGLSAEQGRQTEREEEEEKWEEAEAREKAVPEEESPPTAAFKAPPSLGNKETQRAAPGWP EDGAGKMGAEEAKPPEGKGEWAHSRQEEEEMARAPQVLFRGGKSGEPEQEEQLSKEWEDAKRWSK MDQLAKELTAEKRLEGEEEEEEDPDRSMRLSFRARGYGFRGPGLQLRRGWRPNSREDSVEAGLPLQV RGYPEEKKEEEGSANRRPEDQELESLSAIEAELEKVAHQLEELRRG

MDDFERRRELRRQKREEMRLEAERLSYQRNDDDEEEAARERRRRARQERLRQKEEGDVSGEVTEKSE VNAQNSVAEEETKRSTDDEAALLERLARREERRQKRLQEALERQKEFDPTITDGSLSVPSRREVNNVEE NEITGKEEKVETRQGRCEIEETETVTKSYQRNNWRQDGEEEGKKEEKDSEEEKPKEVPTEENQVDVAV EKSTDKEEVVETKTLAVNAENDTNAMLEGEQSITDAADKEKEEAEKEREKLEAEEKERLKAEEEKKAAEE KQKAEEEKKAAEERRAKAEEERRAKAEEERRAKAEEERKAAEERRAKAEERRAKAEERRAKAEERKAAEERRAKAEERKAAEERRAKAEERKAAEERRAKAEERKAAEERKAAEERKAAEERKAAEERKAAEERKAAEERKAAEERKAAEERKAAEERKAAEERKAAEERKAAEERKAAEERKAAEERKAAEEKKAOEEKAOA

NLLRKQEEDKEAKVEAKKESLPEKLQPTSKKDQVKDNKDKEKAPKEEMKSVWDRKRGVPEQKAQNG ERELTTPKLKSTENAFGRSNLKGAANAEAGSEKLKEKQQEAAVELDELKKRREERRKILEEEEQKKKQEE AERKIREEEEKKRMKEEIERRRAEAAEKRQKVPEDGVSEEKKPFKCFSPKGSSLKIEERAEFLNKSAQKSG MKPAHTTAVVSKIDSRLEQYTSAVVGNKAAKPAKPAASDLPVPAEGVRNIKSMWEKGNVFSSPGGT GTPNKETAGLKVGVSSRINEWLTKTPEGNKSPAPKPSDLRPGDVSGKRNLWEKQSVEKPAASSSKVT ATGKKSETNGLROFEKEP

# >DP00121

MAALAGAIVVTGGVGSYAADEPIDLEKLEEKRDKENVGNLPKFDNEVKDGSENPMAKYPDFDDEAST RFETENNEFEEKKVVSDNFFDQSEHPFVENKEETPETPETDSEEEVTIKANLIFANGSTQTAEFKGTFEK ATSEAYAYADTLKKDNGEYTVDVADKGYTLNIKFAGKEKTPEEPKEEVTIKANLIYADGKTQTAEFKGTF EEATAEAYRYADALKKDNGEYTVDVADKGYTLNIKFAGKEKTPEEPKEEVTIKANLIYADGKTQTAEFK GTFEEATAEAYRYADLLAKENGKYTVDVADKGYTLNIKFAGKEKTPEEPKEEVTIKANLIYADGKTQTAEFK GTFEATAEAYRYADLLAKENGKYTADLEDGGYTINIRFAGKKVDEKPEEKEQVTIKENIYFEDGTVQ TATFKGTFAEATAEAYRYADLLSKEHGKYTADLEDGGYTINIRFAGKEEPEETPEKPEVQDGYASYEEAE AAAKEALKNDDVNKSYTIRQGADGRYYYVLSPVEAEEEKPEAQNGYATYEEAEAAAKKALENDPINKS YSIRQGADGRYYYVLSPVEAETPEKPVEPSEPSTPDVPSNPSNPSTPDVPSNPSTPDVPSNPSTPEVPSNPS TPGNEEKPGNEQKPGNEQKPGNEQKPGNEQKPGNEQKPDQPSKPEKEENGKGGVDSPKKKEKAAL PKAGSEAEILTLAAASLSSVAGAFISLKKRK

#### >DP00123

MNRGVPFRHLLLVLQLALLPAATQGKKVVLGKKGDTVELTCTASQKKSIQFHWKNSNQIKILGNQGS FLTKGPSKLNDRADSRRSLWDQGNFPLIIKNLKIEDSDTYICEVEDQKEEVQLLVFGLTANSDTHLLQG QSLTLTLESPPGSSPSVQCRSPRGKNIQGGKTLSVSQLELQDSGTWTCTVLQNQKKVEFKIDIVVLAFQ KASSIVYKKEGEQVEFSFPLAFTVEKLTGSGELWWQAERASSSKSWITFDLKNKEVSVKRVTQDPKLQ MGKKLPLHLTLPQALPQYAGSGNLTLALEAKTGKLHQEVNLVVMRATQLQKNLTCEVWGPTSPKLM LSLKLENKEAKVSKREKAVWVLNPEAGMWQCLLSDSGQVLLESNIKVLPTWSTPVQPMALIVLGGVA GLLLFIGLGIFFCVRCRHRRQAERMSQIKRLLSEKKTCQCPHRFQKTCSPI

>DP00125

MLLWVFFLVTLTLSSGSHGSLPSQPLRIPRYADAIFTNSYRKVLGQLSARKLLQDIMNRQQGERNQEQ GAKVRLGRQVDGVWTDQQMALESTLVSLLQERRNSQG

>DP00126

MAEPRQEFEVMEDHAGTYGLGDRKDQGGYTMHQDQEGDTDAGLKESPLQTPTEDGSEEPGSETSD AKSTPTAEDVTAPLVDEGAPGKQAAAQPHTEIPEGTTAEEAGIGDTPSLEDEAAGHVTQARMVSKSK DGTGSDDKKAKGADGKTKIATPRGAAPPGQKGQANATRIPAKTPPAPKTPPSSGEPPKSGDRSGYSS PGSPGTPGSRSRTPSLPTPPTREPKKVAVVRTPPKSPSSAKSRLQTAPVPMPDLKNVKSKIGSTENLKH QPGGGKVQIINKKLDLSNVQSKCGSKDNIKHVPGGGSVQIVYKPVDLSKVTSKCGSLGNIHHKPGGG QVEVKSEKLDFKDRVQSKIGSLDNITHVPGGGNKKIETHKLTFRENAKAKTDHGAEIVYKSPVVSGDTS PRHLSNVSSTGSIDMVDSPQLATLADEVSASLAKQGL

>DP00127

MTNCKYKLRKLSIGLVSVGTMFMAAPVMGEDASQPTASVTTESPAIQTEEDQGSQAEALEEPTPAPQ
TSPSTVSAVPAEAAAMADEKGIAEAPAHEPAPKASVQAEAASPAGKAEATTNTGQPTNTEQARSRSK
RAAEIAPQTIEVEKLEVDKENSSLTVKDGEKDKQLIKHRDGNQRDIFDISRDVKVNQDGTMDVTLTVK
PKQIDEGAEVIVLLDTSQKMTETDFNTAKENIKKLVTTLTGTTDKEGKNVSHYNNRNSVRLIDFYRKVG
ESTDLSGWDAKKIDEKLNEVWKKAKDDYNGWGVDLQGAIHKAREIFNLDKEKRSGKRQHIVLFSQGE
STFSYDIKDKSKMDKVAVEEPVTYSNPLFPWPFYFDTTTRTHNVVNDAKKLIDFLNKLGISQFNGAVD
NVATVGNTLLGLGSFFGLKNPLDYISLADLETSKLNSEKFDYSRRVGEGYNFRSYFDREVDKVGFKKILV
EKIKGNLKKFQPKQTDTWLSSLGLNSIKEKIQDWMIDKALDNLFYRRQYQFYNHNLSAQAEARMARE
EGIKFYAVDVTEPERIAKEINSQKYSEAYTNHLKKKAEEARELAKKRNEKFDKYLKEMSESQKFFKDVED
PEKFKDILTELKVTETFEEKVSVNNSEQRKSNKEVEYKKASSNSSFLSFIFSSSTNESITWTLSKDKLQKAL
QSGETLTLEYKLKIHKDKFKLAPQTRSKRSLDTSENKKSVTEKVITSDVKYKINDKEVKGKELDDVSLTYS
KETVRKPQVEPNVPDTPQEKPLTPLAPSEPSQPSIPETPLIPSEPSVPETSTPEGPTEGENNLGGQSEEITI
TEDSQSGMSGQNPGSGNETVVEDTQTSQEDIVLGGPGQVIDFTEDSQPGMSGNNSHTITEDSKPSQ
EDEVIIGGOGOVIDFTEDTOSGMSGDNSHTDGTVLEEDSKPSQEDEVIIGGOGOVIDFTEDTOTGMS

GAGQVESPTITEETHKPEIIMGGQSDPIDMVEDTLPGMSGSNEATVVEEDTRPKLQFHFDNEEPVPAT VPTVSQTPIAQVESKVPHAKAESALPQTGDTNKLETFFTITALTVIGAAGLLGKKRRNNQTD 

>DP00130

MSYQQQCKQPCQPPPVCPTPKCPEPCPPPKCPEPCPPPKCPQPSPPQQCQQKCPPVTPSPPCQP KCPPKSK

MSYRKELEKYRDLDEDKILGALTEEELRKLENELEELDPDNALLPAGLRQRDQTQKPPTGPFKREELMA HLEQQAKDIKDREDLVPFTGEKRGKAWIPKQKPMDPVLESVTLEPELEEALANASDAELCDIAAILGM HTLMSNQQYYEALGSSTIVNKEGLNSVIKPTKYKPVPDEEPNSTDVEETLKRIQNNDPDLEEVNLNNI MNIPVPTLKALAEALKTNTYVKKFSIVGTRSNDPVAFALAEMLKVNNTLKSLNVESNFISGSGILALVEA LQSNTSLIELRIDNQSQPLGNNVEMEIANMLEKNTTLLKFGYHFTQQGPRLRASNAMMNNNDLVRK RRLAELNGPIFPKCRTGV

MEELVVEVRGSNGAFYKAFVKDVHEDSITVAFENNWQPDRQIPFHDVRFPPPVGYNKDINESDEVEV YSRANEKEPCCWWLAKVRMIKGEFYVIEYAACDATYNEIVTIERLRSVNPNKPATKDTFHKIKLDVPED LRQMCAKEAAHKDFKKAVGAFSVTYDPENYQLVILSINEVTSKRAHMLIDMHFRSLRTKLSLIMRNEE ASKQLESSRQLASRFHEQFIVREDLMGLAIGTHGANIQQARKVPGVTAIDLDEDTCTFHIYGEDQDAV KKARSFLEFAEDVIQVPRNLVGKVIGKNGKLIQEIVDKSGVVRVRIEAENEKNVPQEEEIMPPNSLPSNN SRVGPNAPEEKKHLDIKENSTHFSQPNSTKVQRVLVASSVVAGESQKPELKAWQGMVPFVFVGTKD SIANATVLLDYHLNYLKEVDQLRLERLQIDEQLRQIGASSRPPPNRTDKEKSYVTDDGQGMGRGSRPY RNRGHGRRGPGYTSGTNSEASNASETESDHRDELSDWSLAPTEEERESFLRRGDGRRRGGGGRQG GRGRGGGFKGNDDHSRTDNRPRNPREAKGRTTDGSLQIRVDCNNERSVHTKTLQNTSSEGSRLRTG KDRNQKKEKPDSVDGQQPLVNGVP

>DP00135

MNNAANTGTTNESNVSDAPRIEPLPSLNDDDIEKILQPNDIFTTDRTDASTTSSTAIEDIINPSLDPQSA ASPVPSSSFFHDSRKPSTSTHLVRRGTPLGIYQTNLYGHNSRENTNPNSTLLSSKLLAHPPVPYGQNP DLLQHAVYRAQPSSGTTNAQPRQTTRRYQSHKSRPAFVNKLWSMLNDDSNTKLIQWAEDGKSFIVT NREEFVHQILPKYFKHSNFASFVRQLNMYGWHKVQDVKSGSIQSSSDDKWQFENENFIRGREDLLEK IIRQKGSSNNHNSPSGNGNPANGSNIPLDNAAGSNNSNNNISSSNSFFNNGHLLQGKTLRLMNEA NLGDKNDVTAILGELEQIKYNQIAISKDLLRINKDNELLWQENMMARERHRTQQQALEKMFRFLTSIV PHLDPKMIMDGLGDPKVNNEKLNSANNIGLNRDNTGTIDELKSNDSFINDDRNSFTNATTNARNN MSPNNDDNSIDTASTNTTNRKKNIDENIKNNNDIINDIIFNTNLANNLSNYNSNNNAGSPIRPYKQR YLLKNRANSSTSSENPSLTPFDIESNNDRKISEIPFDDEEEEETDFRPFTSRDPNNQTSENTFDPNRFTM LSDDDLKKDSHTNDNKHNESDLFWDNVHRNIDEQDARLQNLENMVHILSPGYPNKSFNNKTSSTN TNSNMESAVNVNSPGFNLQDYLTGESNSPNSVHSVPSNGSGSTPLPMPNDNDTEHASTSVNQGE NGSGLTPFLTVDDHTLNDNNTSEGSTRVSPDIKFSATENTKVSDNLPSFNDHSYSTQADTAPENAKK RFVEEIPEPAIVEIODPTEYNDHRLPKRAKK

>DP00138

MQRRLVQQWSVAVFLLSYAVPSCGRSVEGLSRRLKRAVSEHQLLHDKGKSIQDLRRRFFLHHLIAEIH TAEIRATSEVSPNSKPSPNTKNHPVRFGSDDEGRYLTQETNKVETYKEQPLKTPGKKKKGKPGKRKEQE KKKRRTRSAWLDSGVTGSGLEGDHLSDTSTTSLELDSRRH

>DP00139

MAVVKCKPTSPGRRHVVKVVNPELHKGKPFAPLLEKNSKSGGRNNNGRITTRHIGGGHKQAYRIVDF

KRNKDGIPAVVERLEYDPNRSANIALVLYKDGERRYILAPKGLKAGDQIQSGVDAAIKPGNTLPMRNIP VGSTVHNVEMKPGKGGQLARSAGTYVQIVARDGAYVTLRLRSGEMRKVEADCRATLGEVGNAEHM LRVLGKAGAARWRGVRPTVRGTAMNPVDHPHGGGEGRNFGKHPVTPWGVQTKGKKTRSNKRTDK EIVRRRSK

>DP00141

MENYFQAEAYNLDKVLDEFEQNEDETVSSTLLDTKWNKILDPPSHRLSFNPTLASVNESAVSNESQP OLKVFSLAHSAPLTTEEEDHCANGODCNLNPEIATMWIDENAVAEDOLIKRNYSWDDOCSAVEVGE KKCGNLACLPDEKNVLVVAVMHNCDKRTLQNDLQDCNNYNSQSLMDAFSCSLDNENRQTDQFSF SINESTEKDMNSEKQMDPLNRPKTEGRSVNHLCPTSSDSLASVCSPSQLKDDGSIGRDPSMSAITSLT VDSVISSQGTDGCPAVKKQENYIPDEDLTGKISSPRTDLGSPNSFSHMSEGILMKKEPAEESTTEESLRS GLPLLLKPDMPNGSGRNNDCERCSDCLVPNEVRADENEGYEHEETLGTTEFLNMTEHFSESQDMTN WKLTKLNEMNDSQVNEEKEKFLQISQPEDTNGDSGGQCVGLADAGLDLKGTCISESEECDFSTVIDT PAANYLSNGCDSYGMQDPGVSFVPKTLPSKEDSVTEEKEIEESKSECYSNIYEQRGNEATEGSGLLLNS TGDLMKKNYLHNFCSQVPSVLGQSSPKVVASLPSISVPFGGARPKQPSNLKLQIPKPLSDHLQNDFPA NSGNNTKNKNDILGKAKLGENSATNVCSPSLGNISNVDTNGEHLESYEAEISTRPCLALAPDSPDNDL RAGQFGISARKPFTTLGEVAPVWVPDSQAPNCMKCEARFTFTKRRHHCRACGKVFCASCCSLKCKLL YMDRKEARVCVICHSVLMNAOAWENMMSASSOSPNPNNPAEYCSTIPPLOOAOASGALSSPPPTV MVPVGVLKHPGAEVAOPREORRVWFADGILPNGEVADAAKLTMNGTSSAGTLAVSHDPVKPVTTS PLPAETDICLFSGSITQVGSPVGSAMNLIPEDGLPPILISTGVKGDYAVEEKPSQISVMQQLEDGGPDPL VFVLNANLLSMVKIVNYVNRKCWCFTTKGMHAVGQSEIVILLQCLPDEKCLPKDIFNHFVQLYRDALA GNVVSNLGHSFFSQSFLGSKEHGGFLYVTSTYQSLQDLVLPTPPYLFGILIQKWETPWAKVFPIRLMLR LGAEYRLYPCPLFSVRFRKPLFGETGHTIMNLLADFRNYOYTLPVVOGLVVDMEVRKTSIKIPSNRYNE MMKAMNKSNEHVLAGGACFNEKADSHLVCVONDDGNYOTOAISIHNOPRKVTGASFFVFSGALK SSSGYLAKSSIVEDGVMVQITAENMDSLRQALREMKDFTITCGKADAEEPQEHIHIQWVDDDKNVSK GVVSPIDGKSMETITNVKIFHGSEYKANGKVIRWTEVFFLENDDQHNCLSDPADHSRLTEHVAKAFCL ALCPHLKLLKEDGMTKLGLRVTLDSDQVGYQAGSNGQPLPSQYMNDLDSALVPVIHGGACQLSEGP **VVMELIFYILENIV** 

MTERRVPFSLLRSPSWEPFRDWYPAHSRLFDQAFGVPRLPDEWSQWFSAAGWPGYVRPLPAATAE GPAAVTLAAPAFSRALNRQLSSGVSEIRQTADRWRVSLDVNHFAPEELTVKTKEGVVEITGKHEERQD EHGYISRCFTRKYTLPPGVDPTLVSSSLSPEGTLTVEAPLPKAVTQSAEITIPVTFEARAQIGGPEAGKSE OSGAK

>DP00144

MLCEDQHMSVENTPQKGSGSLNSSASSISIDVKPTMQSWAQEVRAEFGHSDEASSSLNSSAASCGS LAKKETADGNLESKDGEGREMAFEFLDGVNEVKFERLVKEEKLKTPYKRRHSFTPPSNENSRSNSPNSS NSSANGDAAAPKGGNNPHSRNSKKSGNFRAHKEEKRVRHNSYTSSTSSSSSYTEADPAILSRRQKQI DYGKNTAAYERYVEMVPKDERTRDHPRTPNKYGKYSRRAFDGLVKIWRKSLHIYDPPTQARDTAKDS NSDSDSD

>DP00148

MQRGNFRNQRKMVKCFNCGKEGHTARNCRAPRKKGCWKCGKEGHQMKDCTERQANFLGKIWPS YKGRPGNF

>DP00152

>DP00153

>DP00154

MDLLPPKPKYNPLRNESLSSLEEGASGSTPPEELPSPSASSLGPILPPLPGDDSPTTLCSFFPRMSNLRLA NPAGGRPGSKGEPGRAADDGEGIDGAAMPESGPLPLLQDMNKLSGGGGRRTRVEGGQLGGEEWT RHGSFVNKPTRGWLHPNDKVMGPGVSYLVRYMGCVEVLQSMRALDFNTRTQVTREAISLVCEAVP GAKGATRRKPCSRPLSSILGRSNLKFAGMPITLTVSTSSLNLMAADCKQIIANHHMQSISFASGGDP DTAEYVAYVAKDPVNQRACHILECPEGLAQDVISTIGQAFELRFKQYLRNPPKLVTPHDRMAGFDGS AWDEEEEPPDHQYYNDFPGKEPPLGGVVDMRLREGAAPGAARPTAPNAQTPSHLGATLPVGQPV GGDPEVRKQMPPPPPCPGRELFDDPSYVNVQNLDKARQAVGGAGPPNPAINGSAPRDLFDMKPFE DALRVPPPPQSVSMAEQLRGEPWFHGKLSRREAEALLQLNGDFLVRESTTTPGQYVLTGLQSGQPK HLLLVDPEGVVRTKDHRFESVSHLISYHMDNHLPIISAGSELCLQQPVERKL

>DP00156

MAVTITLKTLQQQTFKIRMEPDETVKVLKEKIEAEKGRDAFPVAGQKLIYAGKILSDDVPIRDYRIDEKNF VVVMVTKTKAGQGTSAPPEASPTAAPESSTSFPPAPTSGMSHPPPAAREDKSPSEESAPTTSPESVSG SVPSSGSSGREEDAASTLVTGSEYETMLTEIMSMGYERERVVAALRASYNNPHRAVEYLLTGIPGSPEP

EHGSVQESQVSEQPATEAAGENPLEFLRDQPQFQNMRQVIQQNPALLPALLQQLGQENPQLLQQI SRHQEQFIQMLNEPPGELADISDVEGEVGAIGEEAPQMNYIQVTPQEKEAIERLKALGFPESLVIQAYF ACEKNENLAANFLLSQNFDDE

MVTSVRTQPPVIMPGMQTEIKTQATNLAANLSAVRAKCHSDAVREIKGPQLEDFPALIKQASLDALFK CGKDAEALKEVFTNSNNVAGKKAIMEFAGLFRSALNATSDSPEAKTLLMKVGAEYAAQIIKDGLKEKS AFGPWLPETKKAEAKLENLEKQLLDIIKNNTGGELSKLSTNLVMQEVMPYIASCIEHNFGCTLDPLTRS NLTHLVDKAAAKAVEALDMCPQKLTQEQGTSVGREARHLEMQTLIPLLLRNVFAQIPADKLPDPKIPE PAAGPVPDGGKKAEPTGINININIDSSNHSVDNSKHINNAEPVDNGQRHIDNSNHDNSRKTIDNSRT FIDNSQRNGESHHSTNSSNVSHSHSRVDSTTHQTETAHSASTGAIDHGIAGKIDVTAHATAEAVTNA SSESKDGKVVTSEKGTTGETTSFDEVDGVTSKSIIGKPVQATVHGVDDNKQQSQTAEIVNVKPLASQL AGVENVKTDTLQSDTTVITGNKAGTTDNDNSQTDKTGPFSGLKFKQNSFLSTVPSVTNMHSMHFDA RETFLGVIRKALEPDTSTPFPVRRAFDGLRAEILPNDTIKSAALKAQCSDIDKHPELKAKMETLKEVITHH PQKEKLAEIALQFAREAGLTRLKGETDYVLSNVLDGLIGDGSWRAGPAYESYLNKPGVDRVITTVDGL HMOR

#### >DP00159

MGARCRSFSALLLLLQVSSWLCQELEPESCSPGFSSEVYTFPVPERHLERGHVLGRVRFEGCTGRPRTA
FFSEDSRFKVATDGTITVKRHLKLHKLETSFLVRARDSSHRELSTKVTLKSMGHHHHRHHHRDPASES
NPELLMFPSVYPGLRRQKRDWVIPPISCPENEKGEFPKNLVQIKSNRDKETKVFYSITGQGADKPPVGV
FIIERETGWLKVTQPLDREAIAKYILYSHAVSSNGEAVEDPMEIVITVTDQNDNRPEFTQEVFEGSVAEG
AVPGTSVMKVSATDADDDVNTYNAAIAYTIVSQDPELPHKNMFTVNRDTGVISVLTSGLDRESYPTY
TLVVQAADLQGEGLSTTAKAVITVKDINDNAPVFNPSTYQGQVPENEVNARIATLKVTDDDAPNTPA
WKAVYTVVNDPDQQFVVVTDPTTNDGILKTAKGLDFEAKQQYILHVRVENEEPFEGSLVPSTATVTV
DVVDVNEAPIFMPAERRVEVPEDFGVGQEITSYTAREPDTFMDQKITYRIWRDTANWLEINPETGAIF
TRAEMDREDAEHVKNSTYVALIIATDDGSPIATGTGTLLLVLLDVNDNAPIPEPRNMQFCQRNPQPHI
ITILDPDLPPNTSPFTAELTHGASVNWTIEYNDAAQESLILQPRKDLEIGEYKIHLKLADNQNKDQVTTL
DVHVCDCEGTVNNCMKAGIVAAGLQVPAILGILGGILALLILLILLLLLFLRRRTVVKEPLLPPDDDTRDN
VYYYDEEGGGEEDQDFDLSQLHRGLDARPEVTRNDVAPTLMSVPQYRPRPANPDEIGNFIDENLKAA
DSDPTAPPYDSLLVFDYEGSGSEAASLSSLNSSESDQDQDYDYLNEWGNRFKKLADMYGGGEDD

>DP00160

MATLLRSLALFKRNKDKPPITSGSGGAIRGIKHIIIVPIPGDSSITTRSRLLDRLVRLIGNPDVSGPKLTGALI GILSLFVESPGQLIQRITDDPDVSIRLLEVVQSDQSQSGLTFASRGTNMEDEADQYFSHDDPISSDQSR FGWFENKEISDIEVQDPEGFNMILGTILAQIWVLVAKAVTAPDTAADSELRRWIKYTQQRRVVGEFRL ERKWLDVVRNRIAEDLSLRRFMVALILDIKRTPGNKPRIAEMICNIDTYIVEAGLASFILTIKFGIETMYPA LGLHEFDGELSTLESLMNLYQQMGETAPYMVILENSIQNKFSAGSYPLLWSYAMGVGVELENSMGGL NFGRSYFDPAYFRLGQEMVRRSAGKVSSTLASELGITAEDARLVSEIAMHTTEDKISRAVGPRQAQVS FLHGDQSENELPRLGGKEDRRVKQSRGEARESYRETGPSRASDARAAHLPTGTPLDIDTASESSQDPQ DSRRSADALLRLQAMAGISEEOGSDTDTPIVYNDRNLLD

>DP00162

MSIMDHSPTTGVVTVIVILIAIAALGALILGCWCYLRLQRISQSEDEESIVGDGETKEPFLLVQYSAKGPC VERKAKLMTPNGPEVHG

#### >DP00165

MSDNDELQQIAHLRREYTKGGLRRRDLPADPLTLFERWLSQACEAKLADPTAMVVATVDEHGQPYQ RIVLLKHYDEKGMVFYTNLGSRKAHQIENNPRVSLLFPWHTLERQVMVIGKAERLSTLEVMKYFHSRP RDSQIGAWVSKQSSRISARGILESKFLELKQKFQQGEVPLPSFWGGFRVSLEQIEFWQGGEHRLHDRF LYORENDAWKIDRLAP

MADGSSDAAREPRPAPAPIRRRSSNYRAYATEPHAKKKSKISASRKLQLKTLLLQIAKQELEREAEERRG EKGRALSTRCQPLELAGLGFAELQDLCRQLHARVDKVDEERYDIEAKVTKNITEIADLTQKIFDLRGKFK RPTLRRVRISADAMMQALLGARAKESLDLRAHLKQVKKEDTEKENREVGDWRKNIDALSGMEGRKK KFES

MEHIQGAWKTISNGFGFKDAVFDGSSCISPTIVQQFGYQRRASDDGKLTDPSKTSNTIRVFLPNKQRT VVNVRNGMSLHDCLMKALKVRGLQPECCAVFRLLHEHKGKKARLDWNTDAASLIGEELQVDFLDH VPLTTHNFARKTFLKLAFCDICQKFLLNGFRCQTCGYKFHEHCSTKVPTMCVDWSNIRQLLLFPNSTIG DSGVPALPSLTMRRMRESVSRMPVSSQHRYSTPHAFTFNTSSPSSEGSLSQRQRSTSTPNVHMVSTT LPVDSRMIEDAIRSHSESASPSALSSSPNNLSPTGWSQPKTPVPAQRERAPVSGTQEKNKIRPRGQRD SSYYWEIEASEVMLSTRIGSGSFGTVYKGKWHGDVAVKILKVVDPTPEQFQAFRNEVAVLRKTRHVNI LLFMGYMTKDNLAIVTQWCEGSSLYKHLHVQETKFQMFQLIDIARQTAQGMDYLHAKNIIHRDMKS NNIFLHEGLTVKIGDFGLATVKSRWSGSQQVEQPTGSVLWMAPEVIRMQDNNPFSFQSDVYSYGIVL YELMTGELPYSHINNRDQIIFMVGRGYASPDLSKLYKNCPKAMKRLVADCVKKVKEERPLFPQILSSIEL LOHSLPKINRSASEPSLHRAAHTEDINACTLTTSPRLPVF

## >DP00173

>DP00175

MPQLNGGGGDDLGANDELISFKDEGEQEEKSSENSSAERDLADVKSSLVNESETNQNSSSDSEAERR PPPRSESFRDKSRESLEEAAKRQDGGLFKGPPYPGYPFIMIPDLTSPYLPNGSLSPTARTLHFQSGSTHY SAYKTIEHQIAVQYLQMKWPLLDVQAGSLQSRQALKDARSPSPAHIVSNKVPVVQHPHHVHPLTPLI TYSNEHFTPGNPPPHLPADVDPKTGIPRPPHPPDISPYYPLSPGTVGQIPHPLGWLVPQQGQPVYPIT TGGFRHPYPTALTVNASMSRFPPHMVPPHHTLHTTGIPHPAIVTPTVKQESSQSDVGSLHSSKHQDS KKEEEKKKPHIKKPLNAFMLYMKEMRAKVVAECTLKESAAINQILGRRWHALSREEQAKYYELARKER QLHMQLYPGWSARDNYGKKKKRRDKQPGETNEHSECFLNPCLSLPPITDLSAPKKCRARFGLDQQ NNWCGPCRRKKKCVRYIQGEGSCLSPPSSDGSLLDSPPPSPNLLGSPPRDAKSQTEQTQPLSLSLKPD PLAHLSMMPPPPALLLAEATHKASALCPNGALDLPPAALQPAAPSSSIAQPSTSSLHSHSSLAGTQPQ PLSLVTKSLE

>DP00176

MKTETKVIKGRQGIARNRHTPLCLGLLLALSPLAAAVADARKDGETELPDMVISGESTSATQPPGVTTL GKVPLKPRELPQSASVIDHERLEQQNLFSLDEAMQQATGVTVQPFQLLTTAYYVRGFKVDSFELDGV PALLGNTASSPODMAIYERVEILRGSNGLLHGTGNPAATVNLVRKRPOREFAASTTLSAGRWDRYRA EVDVGGPLSASGNVRGRAVAAYEDRDYFYDVADQGTRLLYGVTEFDLSPDTLLTVGAQYQHIDSITN MAGVPMAKDGSNLGLSRDTYLDVDWDRFKWDTYRAFGSLEQQLGGGWKGKVSAEYQEADSRLRY AGSFGAIDPQTGDGGQLMGAAYKFKSIQRSLDANLNGPVRLFGLTHELLGGVTYAQGETRQDTARFL NLPNTPVNVYRWDPHGVPRPQIGQYTSPGTTTTTQKGLYALGRIKLAEPLTLVVGGRESWWDQDTP ATRFKPGRQFTPYGGLIWDFARDWSWYVSYAEVYQPQADRQTWNSEPLSPVEGKTYETGIKGELAD GRLNLSLAAFRIDLENNPQEDPDHPGPPNNPFYISGGKVRSQGFELEGTGYLTPYWSLSAGYTYTSTEY LKDSQNDSGTRYSTFTPRHLLRLWSNYDLPWQDRRWSVGGGLQAQSDYSVDYRGVSMRQGGYAL VNMRLGYKIDEHWTAAVNVNNLFDRTYYQSLSNPNWNNRYGEPRSFNVSLRGAF 

>DP00177

MEVPAAGRVPAEGAPTAAVAEVRCPGPAPLRLLEWRVAAGAAVRIGSVLAVFEAAASAQSAGASQS RVASGGCVRPARPERRLRSERAGVVRELCAQPGQVVAPGAVLVRLEGCSHPVVMKGLCAECGQDLT QLQSKNGKQQVPLSTATVSMVHSVPELMVSSEQAEQLGREDQQRLHRNRKLVLMVDLDQTLIHTT EQHCQQMSNKGIFHFQLGRGEPMLHTRLRPHCKDFLEKIAKLYELHVFTFGSRLYAHTIAGFLDPEKKL FSHRILSRDECIDPFSKTGNLRNLFPCGDSMVCIIDDREDVWKFAPNLITVKKYVYFQGTGDMNAPPG SRESQTRKKVNHSRGTEVSEPSPPVRDPEGVTQAPGVEPSNGLEKPARELNGSEAATPRDSPRPGKP DERDIWPPAQAPTSSQELAGAPEPQGSCAQGGRVAPGQRPAQGATGTDLDFDLSSDSESSSESEGT KSSSSASDGESEGKRGRQKPKAAPEGAGALAQGSSLEPGRPAAPSLPGEAEPGAHAPDKEPELGGQE EGERDGLCGLGNGCADRKEAETESQNSELSGVTAGESLDQSMEEEEEEDTDEDDHLIYLEEILVRVHT DYYAKYDRYLNKEIEEAPDIRKIVPELKSKVLADVAIIFSGLHPTNFPIEKTREHYHATALGAKILTRLVLSP DAPDRATHLIAARAGTEKVLQAQECGHLHVVNPDWLWSCLERWDKVEEQLFPLRDDHTKAQRENS PAAFPDREGVPPTALFHPMPVLPKAQPGPEVRIYDSNTGKLIRTGARGPPAPSSSLPIRQEPSSFRAVP PPQPQMFGEELPDAQDGEQPGPSRRKRQPSMSETMPLYTLCKEDLESMDKEVDDILGEGSDDSDSE KRRPEEQEEEPQPRKPGTRRGADARAPASSERSAAGGRGPRGHKRKLNEEDAASESSRESSNEDEGS SSEADEMAKALEAELNDLM

>DP00180

MRKETLIGLAFITANVIAWSLRWRMQKSTTIAAIAGCSGAATFGGLAGGIVGCIAAGILAILQGFEVNW HNGGGGDRSNPVKRSSDSFSIVNHNGEKVDSYAHLVPGKVGKVIIDNIELSAIRYANNHTSLGYHFTS DGSGPAARGEATTIWGVGADEAIDKGTPSKNDLQNMSADLAKNGFKGHQGVACSTVKDGNKDVY MIKFSLAGGSNDPGGSPCSDD

MHGGGPPSGDSACPLRTIKRVQFGVLSPDELKRMSVTEGGIKYPETTEGGRPKLGGLMDPRQGVIERT GRCQTCAGNMTECPGHFGHIELAKPVFHVGFLVKTMKVLRCVCFFCSKLLVDSNNPKIKDILAKSKGQ PKKRLTHVYDLCKGKNICEGGEEMDNKFGVEQPEGDEDLTKEKGHGGCGRYQPRIRRSGLELYAEWK HVNEDSQEKKILLSPERVHEIFKRISDEECFVLGMEPRYARPEWMIVTVLPVPPLSVRPAVVMQGSARN QDDLTHKLADIVKINNQLRRNEQNGAAAHVIAEDVKLLQFHVATMVDNELPGLPRAMQKSGRPLKS

LKQRLKGKEGRVRGNLMGKRVDFSARTVITPDPNLSIDQVGVPRSIAANMTFAEIVTPFNIDRLQELVR RGNSQYPGAKYIIRDNGDRIDLRFHPKPSDLHLQTGYKVERHMCDGDIVIFNRQPTLHKMSMMGHR VRILPWSTFRLNLSVTTPYNADFDGDEMNLHLPQSLETRAEIQELAMVPRMIVTPQSNRPVMGIVQD TLTAVRKFTKRDVFLERGEVMNLLMFLSTWDGKVPQPAILKPRPLWTGKQIFSLIIPGHINCIRTHSTHP DDEDSGPYKHISPGDTKVVVENGELIMGILCKKSLGTSAGSLVHISYLEMGHDITRLFYSNIQTVINNW LLIEGHTIGIGDSIADSKTYQDIQNTIKKAKQDVIEVIEKAHNNELEPTPGNTLRQTFENQVNRILNDAR DKTGSSAOKSLSEYNNFKSMVVSGAKGSKINISOVIAVVGOONVEGKRIPFGFKHRTLPHFIKDDYGP ESRGFVENSYLAGLTPTEFFFHAMGGREGLIDTAVKTAETGYIQRRLIKSMESVMVKYDATVRNSINQV VOLRYGEDGLAGESVEFONLATLKPSNKAFEKKFRFDYTNERALRRTLOEDLVKDVLSNAHIONELER EFERMREDREVLRVIFPTGDSKVVLPCNLLRMIWNAQKIFHINPRLPSDLHPIKVVEGVKELSKKLVIVN GDDPLSROAQENATLLFNIHLRSTLCSRRMAEEFRLSGEAFDWLLGEIESKFNOAIAHPGEMVGALAA OSLGEPATOMTLNTFHYAGVSAKNVTLGVPRLKELINISKKPKTPSLTVFLLGQSARDAERAKDILCRLE HTTLRKVTANTAIYYDPNPQSTVVAEDQEWVNVYYEMPDFDVARISPWLLRVELDRKHMTDRKLTM EOIAEKINAGFGDDLNCIFNDDNAEKLVLRIRIMNSDENKMOEEEEVVDKMDDDVFLRCIESNMLTD MTLQGIEQISKVYMHLPQTDNKKKIIITEDGEFKALQEWILETDGVSLMRVLSEKDVDPVRTTSNDIVEI FTVLGIEAVRKALERELYHVISFDGSYVNYRHLALLCDTMTCRGHLMAITRHGVNRODTGPLMKCSFE ETVDVLMEAAAHGESDPMKGVSENIMLGQLAPAGTGCFDLLLDAEKCKYGMEIPTNIPGLGAAGPT GMFFGSAPSPMGGISPAMTPWNQGATPAYGAWSPSVGSGMTPGAAGFSPSAASDASGFSPGYSP AWSPTPGSPGSPGPSSPYIPSPGGAMSPSYSPTSPAYEPRSPGGYTPQSPSYSPTSPSYSPTSPSYSPTS PNYSPTSPSYSPTSPSYSPTSPSYSPTSPSYSPTSPSYSPTSPSYSPTSPSYSPTSPSYSPTSPSYSPTSPSYS PTSPSYSPTSPSYSPTSPSYSPTSPSYSPTSPNYSPTSPNYTPTSPSYSPTSPSYSPTSPNYTPTS PNYSPTSPSYSPTSPSYSPSSPRYTPOSPTYTPSSPSYSPSSPSYSPTSPKYTPTSPSYSPSSPEY TPASPKYSPTSPKYSPTSPTYSPTYSPTTPKYSPTSPTYSPTSPVYTPTSPKYSPTSPTYSPTSPKYSPT SPTYSPTSPKGSTYSPTSPGYSPTSPTYSLTSPAISPDDSDEEN

#### >DP00183

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

MANLSYWLLALFVAMWTDVGLCKKRPKPGGWNTGGSRYPGQGSPGGNRYPPQGGGTWGQPHGGGWGQPHGGGWGQPHGGGWGQPHGGGWGQGGGTHNQWNKPSKPKTNMKHMAGAAAAG AVVGGLGGYMLGSAMSRPMMHFGNDWEDRYYRENMNRYPNQVYYRPVDQYNNQNNFVHDCV NITIKQHTVTTTTKGENFTETDIKIMERVVEQMCTTQYQKESQAYYDGRRSSAVLFSSPPVILLISFLIFL MVG

>DP00188

EGGKRLTYDEIOSKTYLEVKGTGTANOCPTVEGGVDSFAFKPGKYTAKKFCLEPTKFAVKAEGISKNSG

PDFQNTKLMTRLTYTLDEIEGPFEVSSDGTVKFEEKDGIDYAAVTVQLPGGERVPFLFTIKQLVASGKPE SFSGDFLVPSYRGSSFLDPKGRGGSTGYDNAVALPAGGRGDEELQKENNKNVASSKGTITLSVTSSK PETGEVIGVFQSLQPSDTDLGAKVPKDVKIEGVWYAQLEQQ

>DP00190

TTOVPPSALLPLNPEOLARLOAATTDLTPTOLAWVSGYFWGVLNOOPAALAATPAPAAEMPGITIIS ASQTGNARRVAEALRDDLLAAKLNVKLVNAGDYKFKQIASEKLLIVVTSTQGEGEPPEEAVALHKFLFS KKAPKLENTAFAVFSLGDTSYEFFCOSGKDFDSKLAELGGERLLDRVDADVEYQAAASEWRARVVDA LKSRAPVAAPSOSVATGAVNEIHTSPYSKDAPLVASLSVNOKITGRNSEKDVRHIEIDLGDSGLRYOPG DALGVWYQNDPALVKELVELLWLKGDEPVTVEGKTLPLNEALQWHFELTVNTANIVENYATLTRSET LLPLVGDKAKLQHYAATTPIVDMVRFSPAQLDAEALINLLRPLTPRLYSIASSQAEVENEVHVTVGVVR YDVEGRARAGGASSFLADRVEEEGEVRVFIEHNDNFRLPANPETPVIMIGPGTGIAPFRAFMQQRAA DEAPGKNWLFFGNPHFTEDFLYOVEWORYVKEGVLTRIDLAWSRDOKEKVYVODKLREOGAELWR WINDGAHIYVCGDANRMAKDVEQALLEVIAEFGGMDTEAADEFLSELRVERRYQRDVY >DP00191

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

MMKSFFLVVTILALTLPFLGAQEQNQEQPIRCEKDERFFSDKIAKYIPIQYVLSRYPSYGLNYYQQKPVA LINNQFLPYPYYAKPAAVRSPAQILQWQVLSNTVPAKSCQAQPTTMARHPHPHLSFMAIPPKKNQD KTEIPTINTIASGEPTSTPTTEAVESTVATLEDSPEVIESPPEINTVQVTSTAV

>DP00194

>DP00192

MDLSQLTPRRPYLLRAFYEWLLDNQLTPHLVVDVTLPGVQVPMEYARDGQIVLNIAPRAVGNLELAN DEVRFNARFGGIPRQVSVPLAAVLAIYARENGAGTMFEPEAAYDEDTSIMNDEEASADNETVMSVID GDKPDHDDDTHPDDEPPOPPRGGRPALRVVK

>DP00196

MNPTETKAIPVSQQMEGPHLPNKKKHKKQAVKTEPEKKSQSTKLSVVHEKKSQEGKPKEHTEPKSLPK QASDTGSNDAHNKKAVSRSAEQQPSEKSTEPKTKPQDMISAGGESVAGITAISGKPGDKKKEKKSLTP AVPVESKPDKPSGKSGMDAALDDLIDTLGGPEETEENTTYTGPEVSDPMSSTYIEELGKREVTIPPKYR ELLAKKEGITGPPADSSKPIGPDDAIDALSSDFTCGSPTAAGKKTEKEESTEVLKAQSAGTVRSAAPPQE KKRKVEKDTMSDQALEALSASLGTRQAEPELDLRSIKEVDEAKAKEEKLEKCGEDDETIPSEYRLKPATD KDGKPLLPEPEEKPKPRSESELIDELSEDFDRSECKEKPSKPTEKTEESKAAAPAPVSEAVSRTSMCSIQS APPEPATLKGTVPDDAVEALADSLGKKEADPEDGKPVMDKVKEKAKEEDREKLGEKEETIPPDYRLEEV KDKDGKPLLPKESKEQLPPMSEDFLLDALSEDFSGPQNASSLKFEDAKLAAAISEVVSQTPASTTQAGA PPRDTSQSDKDLDDALDKLSDSLGQRQPDPDENKPMGDKVKEKAKAEHRDKLGERDDTIPPEYRHL LDDNGQDKPVKPPTKKSEDSKKPADDQDPIDALSGDLDSCPSTTETSQNTAKDKCKKAASSSKAPKN GGKAKDSAKTTEETSKPKDD

>DP00197

MKGGKRVOTARPNRINGEIRAOEVRLTGLEGEOLGIVSLREALEKAEEAGVDLVEISPNAEPPVCRIMD

YGKFLYEKSKSSKEQKKKQKVIQVKEIKFRPGTDEGDYQVKLRSLIRFLEEGDKAKITLRFRGREMAHQQ IGMEVLNRVKDDLQELAVVESFPTKIEGRQMIMVLAPKKKQ

>DP00199

MKVLILACLVALALARETIESLSSSEESITEYKQKVEKVKHEDQQQGEDEHQDKIYPSFQPQPLIYPFVEP IPYGFLPQNILPLAQPAVVLPVPQPEIMEVPKAKDTVYTKGRVMPVLKSPTIPFFDPQIPKLTDLENLHL PLPLLQPLMQQVPQPIPQTLALPPQPLWSVPQPKVLPIPQQVVPYPQRAVPVQALLLNQELLLNPTH OIYPVTOPLAPVHNPISV

>DP00200

MKWKALFTAAILQAQLPITEAQSFGLLDPKLCYLLDGILFIYGVILTALFLRVKFSRSADAPAYQQGQN QLYNELNLGRREEYDVLDKRRGRDPEMGGKPQRRKNPQEGLYNELQKDKMAEAYSEIGMKGERRR GKGHDGLYQGLSTATKDTYDALHMQALPPR

>DP00201

MILQRLFRLSSAVQSAISVSWRRNIGITAVAFNKELDPVQKLFVDKIREYRTKRQTSGGPVDAGPEYQQ DLDRELFKLKQMYGKADMNTFPNFTFEDPKFEVVEKPQS

>DP00202

MKAAQKGFTLIELMIVVAIIGILAAIAIPAYQDYTARAQLSERMTLASGLKTKVSDIFSQDGSCPANTAA TAGIEKDTDINGKYVAKVTTGGTAAASGGCTIVATMKASDVATPLRGKTLTLTLGNADKGSYTWACT SNADNKYLPKTCOTATTTTP

>DP00207

MKRMLINATQQEELRVALVDGQRLYDLDIESPGHEQKKANIYKGKITRIEPSLEAAFVDYGAERHGFLP LKEIAREYFPANYSAHGRPNIKDVLREGQEVIVQIDKEERGNKGAALTTFISLAGSYLVLMPNNPRAGGI SRRIEGDDRTELKEALASLELPEGMGLIVRTAGVGKSAEALQWDLSFRLKHWEAIKKAAESRPAPFLIH QESNVIVRAFRDYLRQDIGEILIDNPKVLELARQHIAALGRPDFSSKIKLYTGEIPLFSHYQIESQIESAFQ REVRLPSGGSIVIDSTEALTAIDINSARATRGGDIEETAFNTNLEAADEIARQLRLRDLGGLIVIDFIDMTP VRHQRAVENRLREAVRQDRARIQISHISRFGLLEMSRQRLSPSLGESSHHVCPRCSGTGTVRDNESLS LSILRLIEEEALKENTQEVHAIVPVPIASYLLNEKRSAVNAIETRQDGVRCVIVPNDQMETPHYHVLRVR

KGEETPTLSYMLPKLHEEAMALPSEEEFAERKRPEQPALATFAMPDVPPAPTPAEPAAPVVAPAPKAA PATPAAPAQPGLLSRFFGALKALFSGGEETKPTEQPAPKAEAKPERQQDRRKPRQNNRRDRNERRDT RSERTEGSDNREENRRNRRQAQQQTAETRESRQQAEVTEKARTADEQQAPRRERSRRRNDDKRQA QQEAKALNVEEQSVQETEQEERVRPVQPRRKQRQLNQKVRYEQSVAEEAVVAPVVEETVAAEPIVQ EAPAPRTELVKVPLPVVAQTAPEQQEENNADNRDNGGMPRRSRRSPRHLRVSGQRRRRYRDERYPT QSPMPLTVACASPELASGKVWIRYPIVRPQDVQVEEQREQEEVHVQPMVTEVPVAAAIEPVVSAPVV EEVAGVVEAPVQVAEPQPEVVETTHPEVIAAAVTEQPQVITESDVAVAQEVAEQAEPVVEPQEETADI EEVVETAEVVVAEPEVVAQPAAPVVAEVAAEVETVAAVEPEVTVEHNHATAPMTRAPAPEYVPEAPR HSDWORPTFAFEGKGAAGGHTATHHASAAPARPOPVE

>DP00208

MKKWTNRLMTIAGVVLILVAAYLFAKPHIDNYLHDKDKDEKIEQYDKNVKEQASKDKKQQAKPQIPK DKSKVAGYIEIPDADIKEPVYPGPATPEQLNRGVSFAEENESLDDQNISIAGHTFIDRPNYQFTNLKAAK KGSMVYFKVGNETRKYKMTSIRDVKPTDVGVLDEQKGKDKQLTLITCDDYNEKTGVWEKRKIFVATEV K

>DP00209

>DP00210

MEAIAKYDFKATADDELSFKRGDILKVLNEECDQNWYKAELNGKDGFIPKNYIEMKPHPWFFGKIPRA KAEEMLSKQRHDGAFLIRESESAPGDFSLSVKFGNDVQHFKVLRDGAGKYFLWVVKFNSLNELVDYH RSTSVSRNQQIFLRDIEQVPQQPTYVQALFDFDPQEDGELGFRRGDFIHVMDNSDPNWWKGACHG OTGMFPRNYVTPVNRNV

MTPHRLLPPLLLLALLAASPGGALARCPGCGQGVQAGCPGGCVEEEDGGSPAEGCAEAEGCLRRE GQECGVYTPNCAPGLQCHPPKDDEAPLRALLLGRGRCLPARAPAVAEENPKESKPQAGTARPQDVN RRDQQRNPGTSTTPSQPNSAGVQDTEMGPCRRHLDSVLQQLQTEVYRGAQTLYVPNCDHRGFYR KRQCRSSQGQRRGPCWCVDRMGKSLPGSPDGNGSSSCPTGSSG

>DP00214

MRIAVICFCLLGITCAIPVKQADSGSSEEKQLYNKYPDAVATWLNPDPSQKQNLLAPQNAVSSEETN DFKQETLPSKSNESHDHMDDMDDEDDDDHVDSQDSIDSNDSDDVDDTDDSHQSDESHHSDESD ELVTDFPTDLPATEVFTPVVPTVDTYDGRGDSVVYGLRSKSKKFRRPDIQYPDATDEDITSHMESEELN GAYKAIPVAQDLNAPSDWDSRGKDSYETSQLDDQSAETHSHKQSRLYKRKANDESNEHSDVIDSQE LSKVSREFHSHEFHSHEDMLVVDPKSKEEDKHLKFRISHELDSASSEVN

>DP00215

>DP00217

MKMADAKOKRNEOLKRWIGSETDLEPPVVKRKKTKVKFDDGAVFLAACSSGDTEEVLRLLERGADIN

YANVDGLTALHQACIDDNVDMVKFLVENGANINQPDNEGWIPLHAAASCGYLDIAEYLISQGAHV GAVNSEGDTPLDIAEEEAMEELLQNEVNRQGVDIEAARKEEERIMLRDARQWLNSGHINDVRHAKS GGTALHVAAAKGYTEVLKLLIQARYDVNIKDYDGWTPLHAAAHWGKEEACRILVENLCDMEAVNKV GQTAFDVADEDILGYLEELQKKQNLLHSEKREKKSPLIESTANLDNNQTQKTFKNKETLIMEQEKNASS IESLEHEKADEEEEGKKDESSCSSEEEEDDDSESEAETDKAKTLANANTTSTQSASMTAPSVAGGQGT PTSPLKKFPTSTTKVSPKEEERKDESPASWRLGLRKTGSYGALAEITASKEAQKEKDSAGVIRSASSPRLS SSLDNKEKEKDGKGTRLAYVAPTIPRRLASTSDIDEKENSGSFGRRQDDLVSSNVPSTASTVTSSAGLQ KTLPASANTTTKSTTGSTSAGVQSSTSNRLWAEDSTEKEKDSVPTAVTVPVAPSVVNAAATTTAMTT ATSGTVSSTSEVRERRRSYLTPVRDEESESQRKARSRQARQSRRSTQGVTLTDLQEAEKTIGRSRSTRTR EQENEEKEKEKQDKEKQEEKKESETKDDDYRQRYSRTVEEPYHRYRPTSTSTSTSSTSSLSTSTSSLS SSSQLNRPNSLIGITSAYSRSGTKESEREGGKKEEEKEEDKSQPKSIRERRRPREKRRSTGVSFWTQDSD ENEQEHQSDSEEGTNKKETQSDSLSRYDTGSLSVSSGDRYDSAQGRSGSQSYLEDRKPYCSRLEKEDS TDFKKLYEQILAENEKLKAQLHDTNMELTDLKLQLEKTTQRQERFADRSLLEMEKRVSGKSQYLLGGK KSSRKKDI

ALLKVKFDQKKRVKLAQGLWLMNWFSVLAGIIIFGLGLFLKIELRKRSDVMNNSESHFVPNSLIGVGVL SCVFNSLAGKICYDALDPAKYAKWKPWLKPYLAVCVLFNVVLFLVALCCFLLRGSLESTLAHGLKNGM KFYRDTDTPGRCFMKKTIDMLQIEFKCCGNNGFRDWFEIQWISNRYLDFSSKEVKDRIKSNVDGRYLV DGVPFSCCNPNSPRPCIQYQLTNNSAHYSYDHQTEELNLWLRGCRAALLSYYSNLMNTTGAVTLLV WLFEVTITVGLRYLHTALEGMANPEDPECESEGWLLEKSVPETWKAFLESVKKLGKGNQVEAEGEDA GQAPAAG

>DP00221

QLKHLEHQEGQLEVPEEQMGQLKYLEQQEGQLKHLDQQEKQPELPEQQMGQLKHLEQQEGQPKH LEQQEGQLEQLEEQEGQLKHLEQQEGQLEHLEHQEGQLGLPEQQVLQLKQLEKQQGQPKHLEEEE GQLKHLVQQEGQLKHLVQQEGQLEQQERQVEHLEQQVGQLKHLEEQEGQLKHLEQQQGQLEVPE QQVGQPKNLEQEEKQLELPEQQEGQVKHLEKQEAQLELPEQQVGQPKHLEQQEKHLEHPEQQDG QLKHLEQQEGQLKDLEQQKGQLEQPVFAPAPGQVQDIQPALPTKGEVLLPVEHQQQKQEVQWPP KHK

MALRVTRNSKINAENKAKINMAGAKRVPTAPAATSKPGLRPRTALGDIGNKVSEQLQAKMPMKKEA KPSATGKVIDKKLPKPLEKVPMLVPVPVSEPVPEPEPEPEPEPEPEVKEEKLSPEPILVDTASPSPMETSGCAP AEEDLCQAFSDVILAVNDVDAEDGADPNLCSEYVKDIYAYLRQLEEEQAVRPKYLLGREVTGNMRAIL IDWLVQVQMKFRLLQETMYMTVSIIDRFMQNNCVPKKMLQLVGVTAMFIASKYEEMYPPEIGDFAF VTDNTYTKHQIRQMEMKILRALNFGLGRPLPLHFLRRASKIGEVDVEQHTLAKYLMELTMLDYDMVH FPPSQIAAGAFCLALKILDNGEWTPTLQHYLSYTEESLLPVMQHLAKNVVMVNQGLTKHMTVKNKY ATSKHAKISTLPOLNSALVODLAKAVAKV

MHHQQRMAALGTDKELSDLLDFSAMFSPPVSSGKNGPTSLASGHFTGSNVEDRSSSGSWGNGGHP SPSRNYGDGTPYDHMTSRDLGSHDNLSPPFVNSRIQSKTERGSYSSYGRESNLQGCHQQSLLGGDM DMGNPGTLSPTKPGSQYYQYSSNNPRRRPLHSSAMEVQTKKVRKVPPGLPSSVYAPSASTADYNRD SPGYPSSKPATSTFPSSFFMQDGHHSSDPWSSSSGMNQPGYAGMLGNSSHIPQSSSYCSLHPHERL SYPSHSSADINSSLPPMSTFHRSGTNHYSTSSCTPPANGTDSIMANRGSGAAGSSQTGDALGKALASI YSPDHTNNSFSSNPSTPVGSPPSLSAGTAVWSRNGGQASSSPNYEGPLHSLQSRIEDRLERLDDAIHV LRNHAVGPSTAMPGGHGDMHGIIGPSHNGAMGGLGSGYGTGLLSANRHSLMVGTHREDGVALRG SHSLLPNQVPVPQLPVQSATSPDLNPPQDPYRGMPPGLQGQSVSSGSSEIKSDDEGDENLQDTKSS EDKKLDDDKKDIKSITSNNDDEDLTPEQKAEREKERRMANNARERLRVRDINEAFKELGRMVQLHLKS DKPQTKLLILHQAVAVILSLEQQVRERNLNPKAACLKRREEEKVSSEPPPLSLAGPHPGMGDASNHM GOM

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

## >DP00226

MASVLEELQKDLEEVKVLLEKSTRKRLRDTLTSEKSKIETELKNKMQQKSQKKPELDNEKPAAVVAPLTT GYTVKISNYGWDQSDKFVKIYITLTGVHQVPTENVQVHFTERSFDLLVKNLNGKNYSMIVNNLLKPIS VESSSKKVKTDTVIILCRKKAENTRWDYLTQVEKECKEKEKPSYDTEADPSEGLMNVLKKIYEDGDDDM KRTINKAWVESREKQAREDTEF

#### >DP00228

MEPSSPODEGLRKKOPKKPLPEVLPRPPRALFCLTLONPLRKACISIVEWKPFETIILLTIFANCVALAVYL

PMPEDDNNSLNLGLEKLEYFFLTVFSIEAAMKIIAYGFLFHQDAYLRSGWNVLDFIIVFLGVFTAILEQV NVIQSNTAPMSSKGAGLDVKALRAFRVLRPLRLVSGVPSLQVVLNSIFKAMLPLFHIALLVLFMVIIYAII GLELFKGKMHKTCYYIGTDIVATVENEKPSPCARTGSGRPCTINGSECRGGWPGPNHGITHFDNFGFS MLTVYQCITMEGWTDVLYWVNDAIGNEWPWIYFVTLILLGSFFILNLVLGVLSGEFTKEREKAKSRGTF QKLREKQQLEEDLRGYMSWITQGEVMDVEDLREGKLSLEEGGSDTESLYEIEGLNKIIQFIRHWRQWN RVFRWKCHDLVKSRVFYWLVILIVALNTLSIASEHHNQPLWLTHLQDIANRVLLSLFTIEMLLKMYGLG LROYFMSIFNRFDCFVVCSGILELLLVESGAMTPLGISVLRCIRLLRLFKITKYWTSLSNLVASLLNSIRSIA SLLLLLFLFIIIFALLGMQLFGGRYDFEDTEVRRSNFDNFPQALISVFQVLTGEDWNSVMYNGIMAYGG PSYPGVLVCIYFIILFVCGNYILLNVFLAIAVDNLAEAESLTSAOKAKAEERKRRKMSRGLPDKTEEEKSV MAKKLEQKPKGEGIPTTAKLKVDEFESNVNEVKDPYPSADFPGDDEEDEPEIPVSPRPRPLAELQLKEK AVPIPEASSFFIFSPTNKVRVLCHRIVNATWFTNFILLFILLSSAALAAEDPIRAESVRNQILGYFDIAFTSV FTVEIVLKMTTYGAFLHKGSFCRNYFNILDLLVVAVSLISMGLESSTISVVKILRVLRVLRPLRAINRAKGL KHVVQCVFVAIRTIGNIVLVTTLLQFMFACIGVQLFKGKFFSCNDLSKMTEEECRGYYYVYKDGDPTQ MELRPROWIHNDFHFDNVLSAMMSLFTVSTFEGWPOLLYRAIDSNEEDMGPVYNNRVEMAIFFIIYII LIAFFMMNIFVGFVIVTFQEQGETEYKNCELDKNQRQCVQYALKARPLRCYIPKNPYQYQVWYVVTS SYFEYLMFALIMLNTICLGMOHYHOSEEMNHISDILNVAFTIIFTLEMILKLLAFKARGYFGDPWNVFDF LIVIGSIIDVILSEIDTFLASSGGLYCLGGGCGNVDPDESARISSAFFRLFRVMRLIKLLSRAEGVRTLLWTFI KSFOALPYVALLIVMLFFIYAVIGMOMFGKIALVDGTQINRNNNFQTFPQAVLLLFRCATGEAWQEILL ACSYGKLCDPESDYAPGEEYTCGTNFAYYYFISFYMLCAFLIINLFVAVIMDNFDYLTRDWSILGPHHL DEFKAIWAEYDPEAKGRIKHLDVVTLLRRIQPPLGFGKFCPHRVACKRLVGMNMPLNSDGTVTFNATL FALVRTALKIKTEGNFEQANEELRAIIKKIWKRTSMKLLDQVIPPIGDDEVTVGKFYATFLIQEHFRKFMK ROEEYYGYRPKKDTVOIOAGLRTIEEEAAPEIRRTISGDLTAEEELERAMVEAAMEERIFRRTGGLFGOV DTFLERTNSLPPVMANQRPLQFAEIEMEELESPVFLEDFPQDARTNPLARANTNNANANVAYGNSN HSNNQMFSSVHCEREFPGEAETPAAGRGALSHSHRALGPHSKPCAGKLNGQLVQPGMPINQAPPA PCQQPSTDPPERGQRRTSLTGSLQDEAPQRRSSEGSTPRRPAPATALLIQEALVRGGLDTLAADAGFV TATSQALADACQMEPEEVEVAATELLKARESVQGMASVPGSLSRRSSLGSLDQVQGSQETLIPPRP 

## >DP00230

MTTSLQDGQSAASRAAARDSPLAAQVCGAAQGRGDAHDLAPAPWLHARALLPLPDGTRGCAADR RKKKDLDVPEMPSIPNPFPELCCSPITSVLSADLFPKANSRKKQVIKVYSEDETSRALDVPSDITARDVC QLLILKNHYIDDHSWTLFEHLPHIGVERTIEDHELVIEVLSNWGIEEENKLYFRKNYAKYEFFKNPMYFFP EHMVSFATETNGEISPTQILQMFLSSSTYPEIHGFLHAKEQGKKSWKKIYFFLRRSGLYFSTKGTSKEPRH LQFFSEFGNSDIYVSLAGKKKHGAPTNYGFCFKPNKAGGPRDLKMLCAEEEQSRTCWVTAIRLLKYG MOLYONYMHPYOGRSGCSSOSISPMRSISENSLVAMDFSGOKSRVIENPTEALSVAVEEGLAWRKK GCLRLGTHGSPTASSQSSATNMAIHRSQPWFHHKISRDEAQRLIIQQGLVDGVFLVRDSQSNPKTFV LSMSHGQKIKHFQIIPVEDDGEMFHTLDDGHTRFTDLIQLVEFYQLNKGVLPCKLKHYCARIAL 2222222222222

## >DP00231

MNNPSETSKPSMESGDGNTGTQTNGLDFQKQPVPVGGAISTAQAQAFLGHLHQVQLAGTSLQAA AQSLNVQSKSNEESGDSQQPSQPSQQPSVQAAIPQTQLMLAGGQITGLTLTPAQQQLLLQQAQA QAQLLAAAVQQHSASQQHSAAGATISASAATPMTQIPLSQPIQIAQDLQQLQQLQQQNLNLQQF VLVHPTTNLQPAQFIISQTPQGQQGLLQAQNLLTQLPQQSQANLLQSQPSITLTSQPATPTRTIAATP IQTLPQSQSTPKRIDTPSLEEPSDLEELEQFAKTFKQRRIKLGFTQGDVGLAMGKLYGNDFSQTTISRFE ALNLSFKNMCKLKPLLEKWLNDAENLSSDSSLSSPSALNSPGIEGLSRRRKKRTSIETNIRVALEKSFLEN

QKPTSEEITMIADQLNMEKEVIRVWFCNRRQKEKRINPPSSGGTSSSPIKAIFPSPTSLVATTPSLVTSSA ATTLTVSPVLPLTSAAVTNLSVTGTSDTTSNNTATVISTAPPASSAVTSPSLSPSPSASASTSEASSASET STTQTTSTPLSSPLGTSQVMVTASGLQTAAAAALQGAAQLPANASLAAMAAAAGLNPSLMAPSQF AAGGALLSLNPGTLSGALSPALMSNSTLATIQALASGGSLPITSLDATGNLVFANAGGAPNIVTAPLFL NPONLSLLTSNPVSLVSAAAASAGNSAPVASLHATSTSAESIONSLFTVASASGAASTTTTASKAO >DP00233

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

MMGVKSVTSRLAVGDLLSLLFSTSMAYIATRENCCILDERFGSYCPTTCGIADFFNKYRLTTDGELLEIE GLLQQATNSTGSIEYLIQHIKTIYPSEKQTLPQSIEQLTQKSKKIIEEIIRYENTILAHENTIQQLTDMHIMN SNKITQLKQKIAQLESHCQEPCKDTAEIQETTGRDCQDIANKGARKSGLYFIKPQKAKQSFLVYCEIDT YGNGWTVLQRRLDGSEDFRRNWVQYKEGFGHLSPDDTTEFWLGNEKIHLITTQSTLPYALRIELEDW SGKKGTADYAVFKVGTEEDKYRLTYAYFIGGERGDAFDGFNFGDDPSDKSYTYHNGMRFSTFDNDN

DNFEGNCAEQDGSGWWMNRCHAGHLNGPYYIGGVYSRDTGTNSYDNGIIWATWRDRWYSMKK TTMKIIPFNRLSIDGOOHSGGLKOVGDS

>DP00236

MGNHAGKRELNAEKASTNSETNRGESEKKRNLGELSRTTSEDNEVFGEADANQNNGTSSQDTAVT DSKRTADPKNAWQDAHPADPGSRPHLIRLFSRDAPGREDNTFKDRPSESDELQTIQEDSAATSESLD VMASQKRPSQRHGSKYLATASTMDHARHGFLPRHRDTGILDSIGRFFGGDRGAPKRGSGKDSHHPA RTAHYGSLPQKSHGRTQDENPVVHFFKNIVTPRTPPPSQGKGRGLSLSRFSWGAEGQRPGFGYGGR ASDYKSAHKGFKGVDAQGTLSKIFKLGGRDSRSGSPMARR

>DP00238

MDLSALRVEEVONVINAMOKILECPICLELIKEPVSTKCDHIFCKFCMLKLLNOKKGPSOCPLCKNDITK RSLOESTRFSOLVEELLKIICAFOLDTGLEYANSYNFAKKENNSPEHLKDEVSIIOSMGYRNRAKRLLOS EPENPSLQETSLSVQLSNLGTVRTLRTKQRIQPQKTSVYIELGSDSSEDTVNKATYCSVGDQELLQITP QGTRDEISLDSAKKAACEFSETDVTNTEHHQPSNNDLNTTEKRAAERHPEKYQGSSVSNLHVEPCGT NTHASSLQHENSSLLLTKDRMNVEKAEFCNKSKQPGLARSQHNRWAGSKETCNDRRTPSTEKKVDL NADPLCERKEWNKQKLPCSENPRDTEDVPWITLNSSIQKVNEWFSRSDELLGSDDSHDGESESNAKV ADVLDVLNEVDEYSGSSEKIDLLASDPHEALICKSERVHSKSVESNIEDKIFGKTYRKKASLPNLSHVTEN LIIGAFVTEPOIIOERPLTNKLKRKRRPTSGLHPEDFIKKADLAVOKTPEMINOGTNOTEONGOVMNIT NSGHENKTKGDSIQNEKNPNPIESLEKESAFKTKAEPISSSISNMELELNIHNSKAPKKNRLRRKSSTRHI HALELVVSRNLSPPNCTELQIDSCSSSEEIKKKKYNQMPVRHSRNLQLMEGKEPATGAKKSNKPNEQT SKRHDSDTFPELKLTNAPGSFTKCSNTSELKEFVNPSLPREEKEEKLETVKVSNNAEDPKDLMLSGERVL QTERSVESSSISLVPGTDYGTQESISLLEVSTLGKAKTEPNKCVSQCAAFENPKGLIHGCSKDNRNDTE GFKYPLGHEVNHSRETSIEMEESELDAOYLONTFKVSKROSFAPFSNPGNAEEECATFSAHSGSLKKO SPKVTFECEQKEENQGKNESNIKPVQTVNITAGFPVVGQKDKPVDNAKCSIKGGSRFCLSSQFRGNET GLITPNKHGLLQNPYRIPPLFPIKSFVKTKCKKNLLEENFEEHSMSPEREMGNENIPSTVSTISRNNIREN VFKEASSSNINEVGSSTNEVGSSINEIGSSDENIQAELGRNRGPKLNAMLRLGVLQPEVYKQSLPGSNC KHPEIKKOEYEEVVOTVNTDFSPYLISDNLEOPMGSSHASOVCSETPDDLLDDGEIKEDTSFAENDIKE SSAVFSKSVOKGELSRSPSPFTHTHLAOGYRRGAKKLESSEENLSSEDEELPCFOHLLFGKVNNIPSOST RHSTVATECLSKNTEENLLSLKNSLNDCSNQVILAKASQEHHLSEETKCSASLFSSQCSELEDLTANTN TODPFLIGSSKOMRHOSESOGVGLSDKELVSDDEERGTGLEENNOEEOSMDSNLGEAASGCESETS VSEDCSGLSSQSDILTTQQRDTMQHNLIKLQQEMAELEAVLEQHGSQPSNSYPSIISDSSALEDLRNP EOSTSEKAVLTSOKSSEYPISONPEGLSADKFEVSADSSTSKNKEPGVERSSPSKCPSLDDRWYMHSCS GSLONRNYPSOEELIKVVDVEEQOLEESGPHDLTETSYLPRODLEGTPYLESGISLFSDDPESDPSEDR APESARVGNIPSSTSALKVPQLKVAESAQSPAAAHTTDTAGYNAMEESVSREKPELTASTERVNKRMS

MVVSGLTPEEFMLVYKFARKHHITLTNLITEETTHVVMKTDAEFVCERTLKYFLGIAGGKWVVSYFWVT QSIKERKMLNEHDFEVRGDVVNGRNHQGPKRARESQDRKIFRGLEICCYGPFTNMPTDQLEWMVQ LCGASVVKELSSFTLGTGVHPIVVVQPDAWTEDNGFHAIGQMCEAPVVTREWVLDSVALYQCQELD TYLIPOIPHSHY

>DP00240

MNGDSRAAVVTSPPPTTAPHKERYFDRVDENNPEYLRERNMAPDLRQDFNMMEQKKRVSMILQSP
AFCEELESMIQEQFKKGKNPTGLLALQQIADFMTTNVPNVYPAAPQGGMAALNMSLGMVTPVNDL
RGSDSIAYDKGEKLLRCKLAAFYRLADLFGWSQLIYNHITTRVNSEQEHFLIVPFGLLYSEVTASSLVKIN
LQGDIVDRGSTNLGVNQAGFTLHSAIYAARPDVKCVVHIHTPAGAAVSAMKCGLLPISPEALSLGEVA
YHDYHGILVDEEEKVLIQKNLGPKSKVLILRNHGLVSVGESVEEAFYYIHNLVVACEIQVRTLASAGGPD
NLVLLNPEKYKAKSRSPGSPVGEGTGSPPKWQIGEQEFEALMRMLDNLGYRTGYPYRYPALREKSKKY
SDVEVPASVTGYSFASDGDSGTCSPLRHSFQKQQREKTRWLNSGRGDEASEEGQNGSSPKSKTKWT
KEDGHRTSTSAVPNLFVPLNTNPKEVQEMRNKIREQNLQDIKTAGPQSQVLCGVVMDRSLVQGELV
TASKAIIEKEYQPHVIVSTTGPNPFTTLTDRELEEYRREVERKQKGSEENLDEAREQKEKSPPDQPAVPH
PPPSTPIKLEEDLVPEPTTGDDSDAATFKPTLPDLSPDEPSEALGFPMLEKEEEAHRPPSPTEAPTEASPE
PAPDPAPVAEEAAPSAVEEGAAADPGSDGSPGKSPSKKKKKKFRTPSFLKKSKKKKSDS

>DP00243

MAAADGALPEAAALEQPAELPASVRASIERKRQRALMLRQARLAARPYSATAAAATGGMANVKAA PKIIDTGGGFILEEEEEEQKIGKVVHQPGPVMEFDYVICEECGKEFMDSYLMNHFDLPTCDNCRDAD DKHKLITKTEAKQEYLLKDCDLEKREPPLKFIVKKNPHHSQWGDMKLYLKLQIVKRSLEVWGSQEALEE AKEVRQENREKMKQKKFDKKVKELRRAVRSSVWKRETIVHQHEYGPEENLEDDMYRKTCTMCGHEL TYFKM

#### >DP00245

ASGTTASEEERSLRECELYVQKHNIQALLKDSIVQLCTARPERPMAFLREYFEKLEKEEAKQIQNLQKAG SRADSREDEISPPPPNPVVKGRRRRGAISAEVYTEEDAASYVRKVIPKDYKTMAALAKAIEKNVLFSHLD DNERSDIFDAMFPVSFIAGETVIQQGDEGDNFYVIDQGEMDVYVNNEWATSVGEGGSFGELALIYGT PRAATVKAKTNVKLWGIDRDSYRRILMGSTLRKRKMYEEFLSKVSILESLDKWERLTVADALEPVQFED GQKIVVQGEPGDEFFIILEGSAAVLQRRSENEEFVEVGRLGPSDYFGEIALLMNRPRAATVVARGPLKC VKLDRPRFERVLGPCSDILKRNIQQYNSFVSLSV

#### >DP00246

MAQWDDFPDQQEDTDSCTESVKFDARSVTALLPPHPKNGPTLQERMKSYKTALITLYLIVFVVLVPIIG IVAAQLLKWETKNCTVGSVNADISPSPEGKGNGSEDEMRFREAVMERMSNMESRIQYLSDNEANLL DAKNFQNFSITTDQRFNDVLFQLNSLLSSIQEHENIIGDISKSLVGLNTTVLDLQFSIETLNGRVQENAF KQQEEMRKLEERIYNASAEIKSLDEKQVYLEQEIKGEMKLLNNITNDLRLKDWEHSQTLKNITLLQGPP GPPGEKGDRGPPGQNGIPGFPGLIGTPGLKGDRGISGLPGVRGFPGPMGKTGKPGLNGQKGQKGEK GSGSMQRQSNTVRLVGGSGPHEGRVEIFHEGQWGTVCDDRWELRGGLVVCRSLGYKGVQSVHKR AYFGKGTGPIWLNEVFCFGKESSIEECRIROWGVRACSHDEDAGVTCTT

>DP00247

>DP00248

MRIIMPVEFSRIVRDVERLIAVEKYSLQGVVDGDKLLVVGFSEGSVNAYLYDGGETVKLNREPINSVLD PHYGVGRVILVRDVSKGAEQHALFKVNTSRPGEEQRLEAVKPMRILSGVDTGEAVVFTGATEDRVALY ALDGGGLRELARLPGFGFVSDIRGDLIAGLGFFGGGRVSLFTSNLSSGGLRVFDSGEGSFSSASISPGMK VTAGLETAREARLVTVDPRDGSVEDLELPSKDFSSYRPTAITWLGYLPDGRLAVVARREGRSAVFIDGE RVEAPQGNHGRVVLWRGKLVTSHTSLSTPPRIVSLPSGEPLLEGGLPEDLRRSIAGSRLVWVESFDGSR VPTYVLESGRAPTPGPTVVLVHGGPFAEDSDSWDTFAASLAAAGFHVVMPNYRGSTGYGEEWRLKII GDPCGGELEDVSAAARWARESGLASELYIMGYSYGGYMTLCALTMKPGLFKAGVAGASVVDWEEM YELSDAAFRNFIEQLTGGSREIMRSRSPINHVDRIKEPLALIHPQNDSRTPLKPLLRLMGELLARGKTFEA HIIPDAGHAINTMEDAVKILLPAVFFLATORERR

>DP00249

MDDIYKAAVEQLTEEQKNEFKAAFDIFVLGAEDGCISTKELGKVMRMLGQNPTPEELQEMIDEVDED GSGTVDFDEFLVMMVRCMKDDSKGKSEEELSDLFRMFDKNADGYIDLEELKIMLQATGETITEDDIEE LMKDGDKNNDGRIDYDEFLEFMKGVE

>DP00251

MSTSSLRRQMKNIVHNYSEAEIKVREATSNDPWGPSSSLMSEIADLTYNVVAFSEIMSMIWKRLNDH GKNWRHVYKAMTLMEYLIKTGSERVSQQCKENMYAVQTLKDFQYVDRDGKDQGVNVREKAKQLV ALLRDEDRLREERAHALKTKEKLAQTATASSAAVGSGPPPEAEQAWPQSSGEEELQLQLALAMSKEE ADQPPSCGPEDDVQLQLALSLSREEHDKEERIRRGDDLRLQMAIEESKRETGGKEESSLMDLADVFTT PAPPQASDPWGGPASVPTAVPVAAAASDPWGAPAVPPAADPWGGAAPTPASGDPWRPAAPTGP SVDPWGGTPAPAAGEGPTSDPWGSADGGAPVSGPPSSDPWAPAPAFSDPWGGSPAKPSSNGTAV GGFDTEPDEFSDFDRLRTALPTSGSSTGELELLAGEVPARSPGAFDMSGVGGSLAESVGSPPPAATPTP TPPTRKTPESFLGPNAALVDLDSLVSRPGPTPPGAKASNPFLPSGAPATGPSVTNPFQPAPPATLTLN QLRLSPVPPVPGAPPTYISPLGGGPGLPPMMPPGPPAPNTNPFLL

>DP00254

MARMNRPAPVEVSYKHMRFLITHNPTNATLSTFIEDLKKYGATTVVRVCEVTYDKTPLEKDGITVVDW PFDDGAPPPGKVVEDWLSLVKAKFCEAPGSCVAVHCVAGLGRAPVLVALALIESGMKYEDAIQFIRQ KRRGAINSKQLTYLEKYRPKQRLRFKDPHTHKTRCCVM

>DP00256

MMPANEDKENNIVYTGNESSGINFPQTPAHLLKRSHSNILKPPVRLDQLKRDANSNNGNTLKYIQGG KEVSPTKRLHTHAQQQGRLPLAAKDNNRSKSFIFPETSNQSKDADLPQLQNTLSIRKNDQLRKLSQIS RSRSRANHNDLLSNSRKLQKYGSVLGYNALPKMKSLVLKDLADSGKNEESSDDDEGNEDSESKLGKK LQSALLKQDSSDGENELNGGLGLFNEQGGLQQLIKNSTKNEQKTKNDKSDKTDDYDIEIAPQRQEPL PYVPEGYSPFQQDDIEKLKTFNSPYKLDLEDEDDTPDKVDLLPLEQIDEEGEKDETECITRNQEEGAALP LLSKNFKEVAAVPTMELVYSEEGLDPEELEDLVT

>DP00260

MPLNVSFTNRNYDLDYDSVQPYFYCDEEENFYQQQQQSELQPPAPSEDIWKKFELLPTPPLSPSRRS GLCSPSYVAVTPFSLRGDNDGGGGSFSTADQLEMVTELLGGDMVNQSFICDPDDETFIKNIIIQDCM WSGFSAAAKLVSEKLASYQAARKDSGSPNPARGHSVCSTSSLYLQDLSAAASECIDPSVVFPYPLNDS SSPKSCASQDSSAFSPSSDSLLSSTESSPQGSPEPLVLHEETPPTTSSDSEEEQEDEEEIDVVSVEKRQAP GKRSESGSPSAGGHSKPPHSPLVLKRCHVSTHQHNYAAPPSTRKDYPAAKRVKLDSVRVLRQISNNR KCTSPRSSDTEENVKRRTHNVLERQRRNELKRSFFALRDQIPELENNEKAPKVVILKKATAYILSVQAEE QKLISEEDLLRKRREQLKHKLEQLRNSCA

MASLPVLQKESVFQSGAHAYRIPALLYLPGQQSLLAFAEQRASKKDEHAELIVLRRGDYDAPTHQVQ WQAQEVVAQARLDGHRSMNPCPLYDAQTGTLFLFFIAIPGQVTEQQQLQTRANVTRLCQVTSTDH GRTWSSPRDLTDAAIGPAYREWSTFAVGPGHCLQLNDRARSLVVPAYAYRKLHPIQRPIPSAFCFLSH DHGRTWARGHFVAQDTLECQVAEVETGEQRVVTLNARSHLRARVQAQSTNDGLDFQESQLVKKLV EPPPQGCQGSVISFPSPRSGPGSPAQWLLYTHPTHSWQRADLGAYLNPRPPAPEAWSEPVLLAKGS CAYSDLQSMGTGPDGSPLFGCLYEANDYEEIVFLMFTLKQAFPAEYLPQ

#### >DP00262

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

>DP00267

1

MAAVAGLYGLGEDRQHRKKQQQQQHQKEQLEQKEEQKKIAERKLQLREQQLQRNSLDGYGSLP

KLSSQDEEGGAGHGFGGGPQHFEPIPHDHDFCERVVINVSGLRFETQLRTLNQFPDTLLGDPARRLR YFDPLRNEYFFDRSRPSFDAILYYYQSGGRLRRPVNVPLDVFSEEIKFYELGDQAINKFREDEGFIKEEER PLPDNEKQRKVWLLFEYPESSQAARVVAIISVFVILLSIVIFCLETLPEFKHYKVFNTTTNGTKIEEDEVPDI TDPFFLIETLCIIWFTFELTVRFLACPNKLNFCRDVMNVIDIIAIIPYFITLATVVAEEEDTLNLPKAPVSPQ DKSSNQAMSLAILRVIRLVRVFRIFKLSRHSKGLQILGRTLKASMRELGLLIFFLFIGVVLFSSAVYFAEAG SENSFFKSIPDAFWWAVVTMTTVGYGDMTPVGVWGKIVGSLCAIAGVLTIALPVPVIVSNFNYFYHRE TDQEEMQSQNFNHVTSCPYLPGTLGQHMKKSSLSESSSDMMDLDDGVESTPGLTETHPGRSAVAP FLGAQQQQQQQPVASSLSMSIDKQLQHPLQHVTQTQLYQQQQQQQQQQQQQQQRGFKQQQQQTQ OOLOOOOSHTINASAAAATSGSGSSGLTMRHNNALAVSIETDV

#### >DP00268

ALNEGQIVTLAVDEIIETISAITPMAQKAKKYTPPAASMQRSSNTIWMPVEQESPTQEGWDLTDKATG LLELNVAVNMGEPDNDFFQLRADDLRDETAYRRRIQSAARKLANNVELKVANMAAEMGSLVITSPD AIGTNTADAWNFVADAEEIMFSRELNRDMGTSYFFNPQDYKKAGYDLTKRDIFGRIPEEAYRDGTIQR QVAGFDDVLRSPKLPVLTKSTATGITVSGAQSFKPVAWQLDNDGNKVNVDNRFATVTLSATTGMKR GDKISFAGVKFLGQMAKNVLAQDATFSVVRVVDGTHVEITPKPVALDDVSLSPEQRAYANVNTSLAD AMAVNILNVKDARTNVFWADDAIRIVSQPIPANHELFAGMKTTSFSIPDVGLNGIFATQGDISTLSGL CRIALWYGVNATRPEAIGVGLPGOTA

## >DP00269

MSTSVQRMSRSYHCINMSATPQAGHLNPAQQQTHQQHKRKCRDLGRRLIPARLLLGVIVAISLLSPA LALHSPPDKNFSGDNRKPAFKNCAGYAPKVKEEQPENTYVLTVEAVDPDPDQVIRYSIVQSPFERPKF FINPSTGVIFTTHTFDRDEPIHEKFVFVTVQATDNGLPPLDDVCTFNVTIEDINDNAPAFNKARYDESM SENAQPDAVVMTISASDFDDGNNSLVEYEILRERDFQYFKIDKESGIIYLKRPIDKRPGQSYAIIVRAYNV VPDPPQDAQIEVRIRVVESSIKPPSFVNPIDTPIYLKENLKNFTHPIATLRAVSNMPDKPEVIFELNTGRT EQTNSKNTFVFNQIGNEVTISLGKTLDYEAITDYTLTMIVRNTHELGTEHQIKIQVEDVNDNIPYYTEVK SGTILENEPPGTPVMQVRAFDMDGTSANNIVSFELADNREYFTIDPNTGNITALTTFDREERDFYNVK VIASDNSPSSLFDNGEPNRGHQVFRISIGDKNDHKPHFQQDKYLAERLLEDANTNTEVIEVKAEDEDN ASQILYSIESGNVGDAFKIGLKTGKITVNQKLDYETITEYELKVRAFDGIYDDYTTVVIKIEDVNDNPPVFK QDYSVTILEETTYDDCILTVEAYDPDIKDRNADQHIVYSIHQNDGNRWTIDNSGCLRLVKTLDRDPPN GHKNWQVLIKANDEDGVGTTVSTVKEVTVTLKDINDNAPFLINEMPVYWQENRNPGHVVQLQAN

DYDDTPGAGNFTFGIDSEATPDIKTKFSMDGDYLHANVQFDREAQKEYFIPIRISDSGVPRQSAVSILH LVIGDVNDNAMSEGSSRIFIYNYKGEAPETDIGRVFVDDLDDWDLEDKYFEWKDLPHDQFRLNPSTG MITMLVHTAEGEYDLSFVVTEDSMFVPRHSVDAYVTVVVRELPEEAVDKSGSIRFINVTKEEFISVPRDF QSPDALSLKDRFQLSLAKLFNTSVSNVDVFTVLQNENHTLDVRFSAHGSPYYAPEKLNGIVAQNQQR LENELDLQMLMVNIDECLIEKFKCEESCTNELHKSSVPYMIYSNTTSFVGVNAFVQAQCVCEAPLMRR CLNGGSPRYGENDVCDCIDGFTGPHCELVSVAFYGSGYAFYEPIAACNNTKISLEITPQIDQGLIMYLG PLNFNPLLAISDFLALELDNGYPVLTVDYGSGAIRIRHQHIKMVADRTYQLDIILQRTSIEMTVDNCRLS TCQTLGAPIGPNEFLNVNAPLQLGGTPVDLEQLGRQLNWTHVPNQKGFFGCIRNLTINEQTYNLGM PSVFRNIDSGCQQSVAVAFSFGIDRNFIIAIIVCLALLLIILLAVVVQKKQKNGWHEKDIDDIRETIINYED EGGGERDTDYDLNVLRTQPFYEEKLYKDPHALQGNMRDPNDIPDIADFLGDKKENCDRDVGATTVD DVRHYAYEGDGNSDGSLSSLASCTDDGDLNFDYLSNFGPRFRKLADMYGEEPSDTDSNVDDDQG WRI

1111111

## >DP00270

LESGPELVKPGASVKMSCKASGYTFTSYVMHWVKQKPGQGLEWIGYINPYNDGTKYNEKFKGKATLT SDKSSSTAYMELSSLTSEDSAVYYCVRGGYRPYYAMDYWGQGTSVTVSSAKTTPPSVYPLAPGSAAQ TNSMVTLGCLVKGYFPEPVTVTWNSGSLSSGVHTFPAVLQSDLYTLSSSVTVPSSTWPSETVTCNVAH PASSTKVDKKIVPRDCTS

MDSSAAPTNASNCTDALAYSSCSPAPSPGSWVNLSHLDGNLSDPCGPNRTDLGGRDSLCPPTGSPS MITAITIMALYSIVCVVGLFGNFLVMYVIVRYTKMKTATNIYIFNLALADALATSTLPFQSVNYLMGTWP

FGTILCKIVISIDYYNMFTSIFTLCTMSVDRYIAVCHPVKALDFRTPRNAKIINVCNWILSSAIGLPVMFM ATTKYRQGSIDCTLTFSHPTWYWENLLKICVFIFAFIMPVLIITVCYGLMILRLKSVRMLSGSKEKDRNLR RITRMVLVVVAVFIVCWTPIHIYVIIKALVTIPETTFQTVSWHFCIALGYTNSCLNPVLYAFLDENFKRCFR EFCIPTSSNIEQQNSTRIRQNTRDHPSTANTVDRTNHQLENLEAETAPLP

>DP00274

MIRLGAPOSLVLLTLLVAAVLRCOGODVQEAGSCVQDGQRYNDKDVWKPEPCRICVCDTGTVLCD DIICEDVKDCLSPEIPFGECCPICPTDLATASGQPGPKGQKGEPGDIKDIVGPKGPPGPQGPAGEQGPR GDRGDKGEKGAPGPRGRDGEPGTPGNPGPPGPPGPPGPPGLGGNFAAQMAGGFDEKAGGAQLG VMQGPMGPRGPPGPAGAPGPQGFQGNPGEPGEPGVSGPMGPRGPPGPPGKPGDDGEAGK PGKAGERGPPGPOGARGFPGTPGLPGVKGHRGYPGLDGAKGEAGAPGVKGESGSPGENGSPGPM GPRGLPGERGRTGPAGAAGARGNDGOPGPAGPPGPVGPAGGPGFPGAPGAKGEAGPTGARGPEG AOGPRGEPGTPGSPGPAGASGNPGTDGIPGAKGSAGAPGIAGAPGFPGPRGPPGPOGATGPLGPK GQTGEPGIAGFKGEQGPKGEPGPAGPQGAPGPAGEEGKRGARGEPGGVGPIGPPGERGAPGNRGF PGQDGLAGPKGAPGERGPSGLAGPKGANGDPGRPGEPGLPGARGLTGRPGDAGPQGKVGPSGAP GEDGRPGPPGPOGARGOPGVMGFPGPKGANGEPGKAGEKGLPGAPGLRGLPGKDGETGAAGPPG PAGPAGERGEOGAPGPSGFOGLPGPPGPGEGGKPGDOGVPGEAGAPGLVGPRGERGFPGERGSP GAQGLQGPRGLPGTPGTDGPKGASGPAGPPGAQGPPGLQGMPGERGAAGIAGPKGDRGDVGEK GPEGAPGKDGGRGLTGPIGPPGPAGANGEKGEVGPPGPAGSAGARGAPGERGETGPPGPAGFAGP PGADGQPGAKGEQGEAGQKGDAGAPGPQGPSGAPGPQGPTGVTGPKGARGAQGPPGATGFPGA AGRVGPPGSNGNPGPPGPPGPSGKDGPKGARGDSGPPGRAGEPGLQGPAGPPGEKGEPGDDGPS GAEGPPGPOGLAGORGIVGLPGORGERGFPGLPGPSGEPGKOGAPGASGDRGPPGPVGPPGLTGP AGEPGREGSPGADGPPGRDGAAGVKGDRGETGAVGAPGAPGPPGSPGPAGPTGKOGDRGEAGA QGPMGPSGPAGARGIQGPQGPRGDKGEAGEPGERGLKGHRGFTGLQGLPGPPGPSGDQGASGPA GPSGPRGPPGPVGPSGKDGANGIPGPIGPPGPRGRSGETGPAGPPGNPGPPGPPGPPGPGIDMSAF AGLGPREKGPDPLQYMRADQAAGGLRQHDAEVDATLKSLNNQIESIRSPEGSRKNPARTCRDLKLC HPEWKSGDYWIDPNQGCTLDAMKVFCNMETGETCVYPNPANVPKKNWWSSKSKEKKHIWFGETI NGGFHFSYGDDNLAPNTANVOMTFLRLLSTEGSONITYHCKNSIAYLDEAAGNLKKALLIQGSNDVEI RAEGNSRFTYTALKDGCTKHTGKWGKTVIEYRSQKTSRLPIIDIAPMDIGGPEQEFGVDIGPVCFL 

MRYNRNHMLTLMFSLLIFDAYANEPKVCFYMDDDYNGESLCAAQGNSVASIPDKWNDRISSISIPHG LVVTVYEDVDFLGASRSFEADVDLVSDKDLIYLNDNISAFKIKKAVCFYGESNFTGDSLCLSSGEQFDLY RGNYPERKQSHLVNPLNDEVYSIKIPPGMQTTVYEDDDYNGKYFVLTEDYTPDDLLIIRMNNKISSMR VSQDEDFICDRFCSIKKSIKFKIQKSFGSYWIDPRIKYRDILLDFQLSDTDDYSIKFFDEGLIKVKNYKLFFF DGNEKHGEGFLFNLSDKSSNLSFLLRFNGGFFQIQFVESLNNEIVYSSPLIGTLFDDANSDVIFDINNVD ANSPIVIDKMVLTVGKEHNRAERSTLGLATCWAIPILSIYNYIVQGHCNQADKFVHNAADFFGSPADK ILQIFGSSLPLPPKNSNETLDDESALINFMSDVKGTLTYITTNMGEHALTVPATALACKASMREKILPHL RNRRDLAPGCIDWTLSILTDFTLLFGASIEYWNSKNFGRVIENIVREGEIGSAVADVDTASRLIESVQAH VAEATEVADIIHLKTAFDFSQLSYVSYVRHTEEEVVSPQSAQALPLGRYELALVDYHFIETVPRIRQDGR

>DP00276

>DP00277

MTETDKKQEQENHAECEDKPKPCCVCKPEKEERDTCILFNGQDSEKCKEFIEKYKECMKGYGFEVPSA N

GDWSALGKLLDKVQAYSTAGGKVWLSVLFIFRILLLGTAVESAWGDEQSAFRCNTQQPGCENVCYD KSFPISHVRFWVLQIIFVSVPTLLYLAHVFYVMRKEEKLNKKEEELKVAQTDGVNVEMHLKQIEIKKFKY GIEEHGKVKMRGGLLRTYIISILFKSVFEVAFLLIQWYIYGFSLSAVYTCKRDPCPHQVDCFLSRPTEKTIFII FMLVVSLVSLALNIIELFYVFFKGVKDRVKGRSDPYHATTGPLSPSKDCGSPKYAYFNGCSSPTAPLSP MSPPGYKLVTGDRNNSSCRNYNKQASEQNWANYSAEQNRMGQAGSTISNSHAQPFDFPDDNQN AKKVAAGHELQPLAIVDQRPSSRASSRASSRPRPDDLEI

>DP00279

MAEDGPQKQQLDMPLVLDQDLTKQMRLRVESLKQRGEKKQDGEKLLRPAESVYRLDFIQQQKLQF DHWNVVLDKPGKVTITGTSQNWTPDLTNLMTRQLLDPAAIFWRKEDSDAMDWNEADALEFGERLS DLAKIRKVMYFLITFGEGVEPANLKASVVFNOL

>DP00281

MNCTKEEIDMRTISYSEARQNLSATMMKAVEDHAPILITRQNGEACVLMSLEEYNSLEETAYLLRSPA NARRLMDSIDSLKSGKGTEKDIIE

>DP00282

MDPSMGVNSVTISVEGMTCNSCVWTIEOQIGKVNGVHHIKVSLEEKNATIIYDPKLQTPKTLQEAIDD MGFDAVIHNPDPLPVLTDTLFLTVTASLTLPWDHIOSTLLKTKGVTDIKIYPOKRTVAVTIIPSIVNANOI KELVPELSLDTGTLEKKSGACEDHSMAQAGEVVLKMKVEGMTCHSCTSTIEGKIGKLQGVQRIKVSLD NQEATIVYQPHLISVEEMKKQIEAMGFPAFVKKQPKYLKLGAIDVERLKNTPVKSSEGSQQRSPSYTN DSTATFIIDGMHCKSCVSNIESTLSALQYVSSIVVSLENRSAIVKYNASSVTPESLRKAIEAVSPGLYRVSI TSEVESTSNSPSSSSLQKIPLNVVSQPLTQETVINIDGMTCNSCVQSIEGVISKKPGVKSIRVSLANSNG TVEYDPLLTSPETLRGAIEDMGFDATLSDTNEPLVVIAQPSSEMPLLTSTNEFYTKGMTPVQDKEEGKN SSKCYIOVTGMTCASCVANIERNLRREEGIYSILVALMAGKAEVRYNPAVIOPPMIAEFIRELGFGATVIE NADEGDGVLELVVRGMTCASCVHKIESSLTKHRGILYCSVALATNKAHIKYDPEIIGPRDIIHTIESLGFE ASLVKKDRSASHLDHKREIRQWRRSFLVSLFFCIPVMGLMTYMMVMDHHFATLHHNQNMSKEEMI NLHSSMFLERQILPGLSVMNLLSFLLCVPVQFFGGWYFYIQAYKALKHKTANMDVLIVLATTIAFAYSLI ILLVAMYERAKVNPITFFDTPPMLFVFIALGRWLEHIAKGKTSEALAKLISLOATEATIVTLDSDNILLSEE OVDVELVORGDIIKVVPGGKFPVDGRVIEGHSMVDESLITGEAMPVAKKPGSTVIAGSINONGSLLICA THVGADTTLSQIVKLVEEAQTSKAPIQQFADKLSGYFVPFIVFVSIATLLVWIVIGFLNFEIVETYFPGYNR SISRTETIIRFAFQASITVLCIACPCSLGLATPTAVMVGTGVGAQNGILIKGGEPLEMAHKVKVVVFDKT GTITHGTPVVNQVKVLTESNRISHHKILAIVGTAESNSEHPLGTAITKYCKQELDTETLGTCIDFQVVPG CGISCKVTNIEGLLHKNNWNIEDNNIKNASLVOIDASNEOSSTSSSMIIDAOISNALNAOOHKVLIGN REWMIRNGLVINNDVNDFMTEHERKGRTAVLVAVDDELCGLIAIADTVKPEAELAIHILKSMGLEVVL MTGDNSKTARSIASOVGITKVFAEVLPSHKVAKVKOLOEEGKRVAMVGDGINDSPALAMANVGIAIG

TGTDVAIEAADVVLIRNDLLDVVASIDLSRKTVKRIRINFVFALIYNLVGIPIAAGVFMPIGLVLQPWMG SAAMAASSVSVVLSSLFLKLYRKPTYESYELPARSQIGQKSPSEISVHVGIDDTSRNSPKLGLLDRIVNYS RASINSLLSDKRSLNSVVTSEPDKHSLLVGDFREDDDTAL

>DP00283

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

>DP00285

>DP00286

QLQEKLYVPVKEYPDFNFVGRILGPRGLTAKQLEAETGCKIMVRGKGSMRDKKKEEQNRGKPNWEHL NEDLHVLITVEDAQNRAELKLKRAVEEVKKLLVPAAEGEDSLKKMKLMELAILNGTYRDANLKSPALH HHHHH

MKKHIKNLFLLAAICLTVACKEQLYTGLTEKEANQMQALLLSNDVNVSKEMDKSGNMTLSVEKEDFV RAITILNNNGFPKKKFADIEVIFPPSQLVASPSQENAKINYLKEQDIERLLSKIPGVIDCSVSLNVNNNES QPSSAAVLVISSPEVNLAPSVIQIKNLVKNSVDDLKLENISVVIKSSSGQDG

>DP00291

MQRTKEAVKASDGSLLGDPGRIPLSKRESIKWQRPRFTRQALMRCCLIKWILSSAAPQGSDSSDSELEL STVRHQPEGLDQLQAQTKFTKKELQSLYRGFKNECPTGLVDEDTFKLIYSQFFPQGDATTYAHFLFNA FDADGNGAIHFEDFVVGLSILLRGTVHEKLKWAFNLYDINKDGCITKEEMLAIMKSIYDMMGRHTYPIL REDAPLEHVERFFQKMDRNQDGVVTIDEFLETCQKDENIMNSMQLFENVI

>DP00292

MNTDVLNQQKIEELSAEIGSDNVPVLLDIFLGEMDSYIGTLTELQGSEQLLYLKEISHALKSSAASFGAD RLCERAIAIDKKAKANQLQEQGMETSEMLALLHITRDAYRSWTN

>DP00294

MINRIRVVTLLVMVLGVFALLQLISGSLFFSSLHHSQKSFVVSNQLREQQGELTSTWDLMLQTRINLSR SAVRMMMDSSNQQSNAKVELLDSARKTLAQAATHYKKFKSMAPLPEMVATSRNIDEKYKNYYTALT ELIDYLDYGNTGAYFAQPTQGMQNAMGEAFAQYALSSEKLYRDIVTDNADDYRFAQWQLAVIALV VVLILLVAWYGIRRMLLTPLAKIIAHIREIAGGNLANTLTIDGRSEMGDLAQSVSHMQRSLTDTVTHVR EGSDAIYAGTREIAAGNTDLSSRTEQQASALEETAASMEQLTATVKQNADNARQASQLAQSASDTA QHGGKVVDGVVKTMHEIADSSKKIADIISVIDGIAFQTNILALNAAVEAARAGEQGRGFAVVAGEVRN LASRSAQAAKEIKALIEDSVSRVDTGSVLVESAGETMNNIVNAVTRVTDIMGEIASASDEQSRGIDQV ALAVSEMDRVTQQNASLVQESAAAAAALEEQASRLTQAVSAFRLAASPLTNKPQTPSRPASEQPPA QPRLRIAEQDPNWETF

>DP00297

MAHAGRTGYDNREIVMKYIHYKLSQRGYEWDAGDVGAAPPGAAPAPGIFSSQPGHTPHPAASRDP VARTSPLQTPAAPGAAAGPALSPVPPVVHLTLRQAGDDFSRRYRRDFAEMSSQLHLTPFTARGRFAT VVEELFRDGVNWGRIVAFFEFGGVMCVESVNREMSPLVDNIALWMTEYLNRHLHTWIQDNGGWD AFVELYGPSMRPLFDFSWLSLKTLLSLALVGACITLGAYLGHK

>DP00298

MSOSNRELVVDFLSYKLSOKGYSWSOFSDVEENRTEAPEGTESEMETPSAINGNPSWHLADSPAVN

GATGHSSSLDAREVIPMAAVKQALREAGDEFELRYRRAFSDLTSQLHITPGTAYQSFEQVVNELFRDG VNWGRIVAFFSFGGALCVESVDKEMQVLVSRIAAWMATYLNDHLEPWIQENGGWDTFVELYGNNA AAESRKGQERFNRWFLTGMTVAGVVLLGSLFSRK

>DP00301

MISLIAALAVDRVIGMENAMPWNLPADLAWFKRNTLNKPVIMGRHTWESIGRPLPGRKNIILSSQPG TDDRVTWVKSVDEAIAACGDVPEIMVIGGGRVYEQFLPKAQKLYLTHIDAEVEGDTHFPDYEPDDWE SVFSEFHDADAQNSHSYCFEILERR

>DP00302

MAVAANKRSVMTLFSGPTDIFSHQVRIVLAEKGVSVEIEQVEADNLPQDLIDLNPYRTVPTLVDRELTL YESRIIMEYLDERFPHPPLMPVYPVARGSSRLMMHRIEHDWYSLLYKIEQGNAQEAEAARKQLREELLS IAPVFNETPFFMSEEFSLVDCYLAPLLWRLPVLGIEFTGAGSKELKGYMTRVFERDAFLASLTEAEREMH LKTRS

MNEVSVIKEGWLHKRGEYIKTWRPRYFLLKSDGSFIGYKERPEAPDQTLPPLNNFSVAECQLMKTERP RPNTFVIRCLQWTTVIERTFHVDSPDEREEWMRAIQMVANSLKQRAPGEDPMDYKCGSPSDSSTTEE MEVAVSKARAKVTMNDFDYLKLLGKGTFGKVILVREKATGRYYAMKILRKEVIIAKDEVAHTVTESRVL QNTRHPFLTALKYAFQTHDRLCFVMEYANGGELFFHLSRERVFTEERARFYGAEIVSALEYLHSRDVVY RDIKLENLMLDKDGHIKITDFGLCKEGISDGATMKTFCGTPEYLAPEVLEDNDYGRAVDWWGLGVVM YEMMCGRLPFYNQDHERLFELILMEEIRFPRTLSPEAKSLLAGLLKKDPKQRLGGGPSDAKEVMEHRFF LSINWQDVVQKKLLPPFKPQVTSEVDTRYFDDEFTAQSITITPPDRYDSLGLLELDQRTHFPQFSYSASI RE

>DP00308

MEANGLGPQGFPELKNDTFLRAAWGEETDYTPVWCMRQAGRYLPEFRETRAAQDFFSTCRSPEACC ELTLQPLRRFPLDAAIIFSDILVVPQALGMEVTMVPGKGPSFPEPLREEQDLERLRDPEVVASELGYVFQ AITLTRQRLAGRVPLIGFAGAPWTLMTYMVEGGGSSTMAQAKRWLYQRPQASHQLLRILTDALVPYL VGQVVAGAQALQLFESHAGHLGPQLFNKFALPYIRDVAKQVKARLREAGLAPVPMIIFAKDGHFALE ELAQAGYEVVGLDWTVAPKKARECVGKTVTLQGNLDPCALYASEEEIGQLVKQMLDDFGPHRYIAN

## LGHGLYPDMDPEHVGAFVDAVHKHSRLLRQN

MRPSGTAGAALLALLAALCPASRALEEKKVCQGTSNKLTQLGTFEDHFLSLQRMFNNCEVVLGNLEIT YVORNYDLSFLKTIOEVAGYVLIALNTVERIPLENLOIIRGNMYYENSYALAVLSNYDANKTGLKELPM RNLQEILHGAVRFSNNPALCNVESIQWRDIVSSDFLSNMSMDFQNHLGSCQKCDPSCPNGSCWGA GEENCOKLTKIICAOOCSGRCRGKSPSDCCHNQCAAGCTGPRESDCLVCRKFRDEATCKDTCPPLM LYNPTTYOMDVNPEGKYSFGATCVKKCPRNYVVTDHGSCVRACGADSYEMEEDGVRKCKKCEGPC RKVCNGIGIGEFKDSLSINATNIKHFKNCTSISGDLHILPVAFRGDSFTHTPPLDPQELDILKTVKEITGFLL IQAWPENRTDLHAFENLEIIRGRTKQHGQFSLAVVSLNITSLGLRSLKEISDGDVIISGNKNLCYANTIN WKKLFGTSGQKTKIISNRGENSCKATGQVCHALCSPEGCWGPEPRDCVSCRNVSRGRECVDKCNLL EGEPREFVENSECIOCHPECLPOAMNITCTGRGPDNCIOCAHYIDGPHCVKTCPAGVMGENNTLVW KYADAGHVCHLCHPNCTYGCTGPGLEGCPTNGPKIPSIATGMVGALLLLLVVALGIGLFMRRRHIVRK RTLRRLLQERELVEPLTPSGEAPNQALLRILKETEFKKIKVLGSGAFGTVYKGLWIPEGEKVKIPVAIKELRE ATSPKANKEILDEAYVMASVDNPHVCRLLGICLTSTVQLITQLMPFGCLLDYVREHKDNIGSQYLLNW CVQIAKGMNYLEDRRLVHRDLAARNVLVKTPQHVKITDFGLAKLLGAEEKEYHAEGGKVPIKWMALE SILHRIYTHOSDVWSYGVTVWELMTFGSKPYDGIPASEISSILEKGERLPOPPICTIDVYMIMVKCWMID ADSRPKFRELIIEFSKMARDPORYLVIOGDERMHLPSPTDSNFYRALMDEEDMDDVVDADEYLIPOO GFFSSPSTSRTPLLSSLSATSNNSTVACIDRNGLQSCPIKEDSFLQRYSSDPTGALTEDSIDDTFLPVPEYI NOSVPKRPAGSVONPVYHNOPLNPAPSRDPHYODPHSTAVGNPEYLNTVOPTCVNSTFDSPAHW AQKGSHQISLDNPDYQQDFFPKEAKPNGIFKGSTAENAEYLRVAPQSSEFIGA 222222222

>DP00311

MDPKQTTLLCLVLCLGQRIQAQEGDFPMPFISAKSSPVIPLDGSVKIQCQAIREAYLTQLMIIKNSTYREI

GRRLKFWNETDPEFVIDHMDANKAGRYQCQYRIGHYRFRYSDTLELVVTGLYGKPFLSADRGLVLMP GENISLTCSSAHIPFDRFSLAKEGELSLPQHQSGEHPANFSLGPVDLNVSGIYRCYGWYNRSPYLWSFP SNALELVVTDSIHQDYTTQNLIRMAVAGLVLVALLAILVENWHSHTALNKEASADVAEPSWSQQMC OPGLTFARTPSVCK

>DP00312

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

## >DP00314

MEPAMEPETLEARINRATNPLNKELDWASINGFCEQLNEDFEGPPLATRLLAHKIQSPQEWEAIQALT VLETCMKSCGKRFHDEVGKFRFLNELIKVVSPKYLGSRTSEKVKNKILELLYSWTVGLPEEVKIAEAYQM LKKQGIVKSDPKLPDDTTFPLPPPRPKNVIFEDEEKSKMLARLLKSSHPEDLRAANKLIKEMVQEDQKR MEKISKRVNAIEEVNNNVKLLTEMVMSHSQGGAAAGSSEDLMKELYQRCERMRPTLFRLASDTEDN DEALAEILQANDNLTQVINLYKQLVRGEEVNGDATAGSIPGSTSALLDLSGLDLPPAGTTYPAMPTRP

GEQASPEQPSASVSLLDDELMSLGLSDPTPPSGPSLDGTGWNSFQSSDATEPPAPALAQAPSMESRP PAQTSLPASSGLDDLDLLGKTLLQQSLPPESQQVRWEKQQPTPRLTLRDLQNKSSSCSSPSSSATSLL HTVSPEPPRPPQQPVPTELSLASITVPLESIKPSNILPVTVYDQHGFRILFHFARDPLPGRSDVLVVVVS MLSTAPQPIRNIVFQSAVPKVMKVKLQPPSGTELPAFNPIVHPSAITQVLLLANPQKEKVRLRYKLTFT MGDQTYNEMGDVDQFPPPETWGSL

#### >DP00315

MAAPRAGRGAGWSLRAWRALGGIRWGRRPRLTPDLRALLTSGTSDPRARVTYGTPSLWARLSVGVT EPRACLTSGTPGPRAQLTAVTPDTRTREASENSGTRSRAWLAVALGAGGAVLLLLWGGGRGPPAVL AAVPSPPPASPRSQYNFIADVVEKTAPAVVYIEILDRHPFLGREVPISNGSGFVVAADGLIVTNAHVVA DRRRVRVRLLSGDTYEAVVTAVDPVADIATLRIQTKEPLPTLPLGRSADVRQGEFVVAMGSPFALQNTI TSGIVSSAQRPARDLGLPQTNVEYIQTDAAIDFGNSGGPLVNLDGEVIGVNTMKVTAGISFAIPSDRLR EFLHRGEKKNSSSGISGSQRRYIGVMMLTLSPSILAELQLREPSFPDVQHGVLIHKVILGSPAHRAGLRP GDVILAIGEQMVQNAEDVYEAVRTQSQLAVQIRRGRETLTLYVTPEVTE

## >DP00317

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

RYDARVHTPHLDRLVSARSVSPTTEMVSNESVDYRATFPEDQFPNSSQNGSCRQVQYPLTDMSPILT SGDSDISSPLLQNTVHIDLSALNPELVQAVQHVVIGPSSLIVHFNEVIGRGHFGCVYHGTLLDNDGKKI HCAVKSLNRITDIGEVSQFLTEGIIMKDFSHPNVLSLLGICLRSEGSPLVVLPYMKHGDLRNFIRNETHN PTVKDLIGFGLQVAKGMKYLASKKFVHRDLAARNCMLDEKFTVKVADFGLARDMYDKEYYSVHNKT GAKLPVKWMALESLQTQKFTTKSDVWSFGVVLWELMTRGAPPYPDVNTFDITVYLLQGRRLLQPEY CPDPLYEVMLKCWHPKAEMRPSFSELVSRISAIFSTFIGEHYVHVNATYVNVKCVAPYPSLLSSEDNAD DEVDTRPASFWETS

10000000022222222222222222222222222

>DP00318

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

#### >DP00319

MAQSTATSPDGGTTFEHLWSSLEPDSTYFDLPQSSRGNNEVVGGTDSSMDVFHLEGMTTSVMAQF NLLSSTMDQMSSRAASASPYTPEHAASVPTHSPYAQPSSTFDTMSPAPVIPSNTDYPGPHHFEVTFQ QSSTAKSATWTYSPLLKKLYCQIAKTCPIQIKVSTPPPPGTAIRAMPVYKKAEHVTDVVKRCPNHELGR DFNEGQSAPASHLIRVEGNNLSQYVDDPVTGRQSVVVPYEPPQVGTEFTTILYNFMCNSSCVGGMN RRPILIIITLEMRDGQVLGRRSFEGRICACPGRDRKADEDHYREQQALNESSAKNGAASKRAFKQSPPA VPALGAGVKKRRHGDEDTYYLQVRGRENFEILMKLKESLELMELVPQPLVDSYRQQQQLLQRPSHLQ PPSYGPVLSPMNKVHGGMNKLPSVNQLVGQPPPHSSAATPNLGPVGPGMLNNHGHAVPANGEM SSSHSAQSMVSGSHCTPPPPYHADPSLVSFLTGLGCPNCIEYFTSQGLQSIYHLQNLTIEDLGALKIPE QYRMTIWRGLQDLKQGHDYSTAQQLLRSSNAATISIGGSGELQRQRVMEAVHFRVRHTITIPNRGGP GGGPDEWADFGFDLPDCKARKQPIKEEFTEAEIH

# >DP00320

#### >DP00321

MAQGTLIRVTPEQPTHAVCVLGTLTQLDICSSAPEDCTSFSINASPGVVVDIAHSPPAKKKSTGSSTWP LDPGVEVTLTMKAASGSTGDQKVQISYYGPKTPPVKALLYLTAVEISLCADITRTGKVKPTRAVKDQRT WTWGPCGQGAILLVNCDRDNLESSAMDCEDDEVLDSEDLQDMSLMTLSTKTPKDFFTNHTLVLHV ARSEMDKVRVFQATRGKLSSKCSVVLGPKWPSHYLMVPGGKHNMDFYVEALAFPDTDFPGLITLTISL LDTSNLELPEAVVFQDSVVFRVAPWIMTPNTQPPQEVYACSIFENEDFLKSVTTLAMKAKCKLTICPEE ENMDDQWMQDEMEIGYIQAPHKTLPVVFDSPRNRGLKEFPIKRVMGPDFGYVTRGPQTGGISGLDS FGNLEVSPPVTVRGKEYPLGRILFGDSCYPSNDSRQMHQALQDFLSAQQVQAPVKLYSDWLSVGHV DEFLSFVPAPDRKGFRLLLASPRSCYKLFQEQQNEGHGEALLFEGIKKKKQQKIKNILSNKTLREHNSFV ERCIDWNRELLKRELGLAESDIIDIPQLFKLKEFSKAEAFFPNMVNMLVLGKHLGIPKPFGPVINGRCCLE EKVCSLLEPLGLQCTFINDFFTYHIRHGEVHCGTNVRRKPFSFKWWNMVP

MLLSKINSLAHLRAAPCNDLHATKLAPGKEKEPLESQYQVGPLLGSGGFGSVYSGIRVSDNLPVAIKHV EKDRISDWGELPNGTRVPMEVVLLKKVSSGFSGVIRLLDWFERPDSFVLILERPEPVQDLFDFITERGAL QEELARSFFWQVLEAVRHCHNCGVLHRDIKDENILIDLNRGELKLIDFGSGALLKDTVYTDFDGTRVYS PPEWIRYHRYHGRSAAVWSLGILLYDMVCGDIPFEHDEEIIRGQVFFRQRVSSECQHLIRWCLALRPS DRPTFEEIQNHPWMQDVLLPQETAEIHLHSLSPGPSK

# >DP00323

MEVRPKESWNHADFVHCEDTESVPGKPSVNADEEVGGPQICRVCGDKATGYHFNVMTCEGCKGFF RRAMKRNARLRCPFRKGACEITRKTRRQCQACRLRKCLESGMKKEMIMSDEAVEERRALIKRKKSERT GTQPLGVQGLTEEQRMMIRELMDAQMKTFDTTFSHFKNFRLPGVLSSGCELPESLQAPSREEAAKWS QVRKDLCSLKVSLQLRGEDGSVWNYKPPADSGGKEIFSLLPHMADMSTYMFKGIISFAKVISYFRDLPI EDQISLLKGAAFELCQLRFNTVFNAETGTWECGRLSYCLEDTAGGFQQLLLEPMLKFHYMLKKLQLHE EEYVLMQAISLFSPDRPGVLQHRVVDQLQEQFAITLKSYIECNRPQPAHRFLFLKIMAMLTELRSINAQ HTQRLLRIQDIHPFATPLMQELFGITGS

SKSESPKEPEQLRKLFIGGLSFETTDESLRSHFEQWGTLTDCVVMRDPNTKRSRGFGFVTYATVEEVDA AMNARPHKVDGRVVEPKRAVSREDSQRPGAHLTVKKIFVGGIKEDTEEHHLRDYFEQYGKIEVIEIMT DRGSGKKRGFAFVTFDDHDSVDKIVIQKYHTVNGHNCEVRKALSKQEMASASSSQRGRSGSGNFGG GRGGGFGGNDNFGRGGNFSGRGGFGGSRGGGGYGGSGDGYNGFGNDGGYGGGGPGYSGSRG YGSGGQGYGNQGSGYGGSGSYDSYNNGGGRGFGGGSGSNFGGGGSYNDFGNYNNQSSNFGPM KGGNFGGRSSGPYGGGQYFAKPRNQGGYGGSSSSSSSYGSGRRF

MEQDNSPRKIQFTVPLLEPHLDPEAAEQIRRRRPTPATLVLTSDQSSPEVDEDRIPNPLLKPSLAMSPR QRKKMTRTTPTMKELQMMVEHHLGQQEQGEEPEGAAEGTGAQESQPPGTPGTGAESRLGPSATA QKPAQPSPRAQERRGEEPSTAKTSQDSQGASAV

>DP00327

>DP00328

MSLPMNSLYSLTWGDYGTSLVSAIQLLRCHGDLVDCTLAAGGRSFPAHKIVLCAASPFLLDLLKNTPC KHPVVMLAGVNANDLEALLEFVYRGEVSVDHAQLPSLLQAAQCLNIQGLAPQTVTKDDYTTHSIQL QHMIPQHHDQDQLIATIATAPQQTVHAQVVEDIHHQGQILQATTQTNAAGQQQTIVTTDAAKHD QAVIQAFLPARKRKPRVKKMSPTAPKISKVEGMDTIMGTPTSSHGSGSVQQVLGENGAEGQLLSSTPI IKSEGQKVETILTMDPNNMIPVTSANAATGEITPAQGATGSSGGNTSGVLSTPKAKRAKHPPGTEKPR SRSQSEQPATCPICYAVIRQSRNLRRHLELRHFAKPGVKKEKKSKSGNDTTLDSSMEMNTTAEGDNT VGSDGAGGAGSAGGQSSGTTPTRVISNAPQAAGAPAILAQGVLPQQQQQQQQQQQQQHQQHLTAT

LAGGGQAYIKHEGGGGGGTGQQQQQQAAQQQGMQNVIHIVGDQVFIPQQQQPQPQ
222222222222222222222222222222222222222
222222222222222222222222222222222222222
111111111111111111111111111111111111111
111111111111111111111111111111111111111
111111111111111111111111111111111111111
111111111111111111111111111111111111111
111111111111111111111111111111111111111
>DP00332

MKTALILLSILGMACAFSMKNLHRRVKIEDSEENGVFKYRPRYYLYKHAYFYPHLKRFPVQGSSDSSEE NGDDSSEEEEEEETSNEGENNEESNEDEDSEAENTTLSATTLGYGEDATPGTGYTGLAAIQLPKKAG DITNKATKEKESDEEEEEEGNENEESEAEVDENEQGINGTSTNSTEAENGNGSSGVDNGEEGEEES VTGANAEGTTETGGQGKGTSKTTTSPNGGFEPTTPPQVYRTTSPPFGKTTTVEYEGEYEYTGANDYD NGYEIYESENGEPRGDNYRAYEDEYSYFKGQGYDGYDGQNYYHHQ

#### >DP00333

MLLSVPLLLGLLGLAVAEPAVYFKEQFLDGDGWTSRWIESKHKSDFGKFVLSSGKFYGDEEKDKGLQT SQDARFYALSASFEPFSNKGQTLVVQFTVKHEQNIDCGGGYVKLFPNSLDQTDMHGDSEYNIMFGP DICGPGTKKVHVIFNYKGKNVLINKDIRCKDDEFTHLYTLIVRPDNTYEVKIDNSQVESGSLEDDWDFL PPKKIKDPDASKPEDWDERAKIDDPTDSKPEDWDKPEHIPDPDAKKPEDWDEEMDGEWEPPVIQNP EYKGEWKPRQIDNPDYKGTWIHPEIDNPEYSPDPSIYAYDNFGVLGLDLWQVKSGTIFDNFLITNDEA YAEEFGNETWGVTKAAEKQMKDKQDEEQRLKEEEEDKKRKEEEEAEDKEDDEDKDEDEEDEEDKEED EEEDVPGQAKDEL

# >DP00334

MCNTNMSVPTDGAVTTSQIPASEQETLVRPKPLLLKLLKSVGAQKDTYTMKEVLFYLGQYIMTKRLYD EKQQHIVYCSNDLLGDLFGVPSFSVKEHRKIYTMIYRNLVVVNQQESSDSGTSVSENRCHLEGGSDQ KDLVQELQEEKPSSSHLVSRPSTSSRRRAISETEENSDELSGERQRKRHKSDSISLSFDESLALCVIREICC ERSSSSESTGTPSNPDLDAGVSEHSGDWLDQDSVSDQFSVEFEVESLDSEDYSLSEEGQELSDEDDEV YQVTVYQAGESDTDSFEEDPEISLADYWKCTSCNEMNPPLPSHCNRCWALRENWLPEDKGKDKGEI SEKAKLENSTQAEEGFDVPDCKKTIVNDSRESCVEENDDKITQASQSQESEDYSQPSTSSSIIYSSQED VKEFEREETQDKEESVESSLPLNAIEPCVICQGRPKNGCIVHGKTGHLMACFTCAKKLKKRNKPCPVCR OPIQMIVLTYFP

>DP00335

MGRRFLVTVRIQRAGRPLQERVFLVKFVRSRRPRTASCALAFVNMLLRLERILRRGPHRNPGPGDDDG QRSRSSSSAQLRCRFELRGPHYLLPPGARRSAGRLPGHAGGAARVRGSAGCARCLGSPAARLGPRAG TSRHRAIFAFRWVLFVFRWVVFVYRWERRPDRRA

>DP00336

MGRGRCVGPSLQLRGQEWRCSPLVPKGGAAAAELGPGGGENMVRRFLVTLRIRRACGPPRVRVFVV HIPRLTGEWAAPGAPAAVALVLMLLRSQRLGQQPLPRRPGHDDGQRPSGGAAAAPRRGAQLRRPR HSHPTRARRCPGGLPGHAGGAAPGRGAAGRARCLGPSARGPG

>DP00337

MMKKIDVKILDPRVGKEFPLPTYATSGSAGLDLRACLNDAVELAPGDTTLVPTGLAIHIADPSLAAMM LPRSGLGHKHGIVLGNLVGLIDSDYQGQLMISVWNRGQDSFTIQPGERIAQMIFVPVVQAEFNLVED FDATDRGEGGFGHSGRO

>DP00338

MAEVLRTLAGKPKCHALRPMILFLIMLVLVLFGYGVLSPRSLMPGSLERGFCMAVREPDHLQRVSLPR MVYPQPKVLTPCRKDVLVVTPWLAPIVWEGTFNIDILNEQFRLQNTTIGLTVFAIKKYVAFLKLFLETAE KHFMVGHRVHYYVFTDQPAAVPRVTLGTGRQLSVLEVGAYKRWQDVSMRRMEMISDFCERRFLSE VDYLVCVDVDMEFRDHVGVEILTPLFGTLHPSFYGSSREAFTYERRPQSQAYIPKDEGDFYYMGAFFG GSVQEVQRLTRACHQAMMVDQANGIEAVWHDESHLNKYLLRHKPTKVLSPEYLWDQQLLGWPAV LRKLRFTAVPKNHQAVRNP

>DP00341

MATQADLMELDMAMEPDRKAAVSHWQQQSYLDSGIHSGATTTAPSLSGKGNPEEEDVDTSQVLY EWEQGFSQSFTQEQVADIDGQYAMTRAQRVRAAMFPETLDEGMQIPSTQFDAAHPTNVQRLAEPS QMLKHAVVNLINYQDDAELATRAIPELTKLLNDEDQVVVNKAAVMVHQLSKKEASRHAIMRSPQM VSAIVRTMQNTNDVETARCTAGTLHNLSHHREGLLAIFKSGGIPALVKMLGSPVDSVLFYAITTLHNLL LHQEGAKMAVRLAGGLQKMVALLNKTNVKFLAITTDCLQILAYGNQESKLIILASGGPQALVNIMRTY

TYEKLLWTTSRVLKVLSVCSSNKPAIVEAGGMQALGLHLTDPSQRLVQNCLWTLRNLSDAATKQEG MEGLLGTLVQLLGSDDINVVTCAAGILSNLTCNNYKNKMMVCQVGGIEALVRTVLRAGDREDITEPAI CALRHLTSRHQEAEMAQNAVRLHYGLPVVVKLLHPPSHWPLIKATVGLIRNLALCPANHAPLREQGA IPRLVQLLVRAHQDTQRRTSMGGTQQQFVEGVRMEEIVEGCTGALHILARDVHNRIVIRGLNTIPLFV QLLYSPIENIQRVAAGVLCELAQDKEAAEAIEAEGATAPLTELLHSRNEGVATYAAAVLFRMSEDKPQ DYKKRLSVELTSSLFRTEPMAWNETADLGLDIGAQGEALGYRQDDPSYRSFHSGGYGQDALGMDP MMEHEMGGHHPGADYPVDGLPDLGHAQDLMDGLPPGDSNQLAWFDTDL

#### >DP00342

MSGGDGRGHNTGAHSTSGNINGGPTGIGVSGGASDGSGWSSENNPWGGGSGSGIHWGGGSGRG NGGGNGNSGGGSGTGGNLSAVAAPVAFGFPALSTPGAGGLAVSISASELSAAIAGIIAKLKKVNLKFT PFGVVLSSLIPSEIAKDDPNMMSKIVTSLPADDITESPVSSLPLDKATVNVNVRVVDDVKDERQNISVV SGVPMSVPVVDAKPTERPGVFTASIPGAPVLNISVNDSTPAVQTLSPGVTNNTDKDVRPAGFTQGG NTRDAVIRFPKDSGHNAVYVSVSDVLSPDQVKQRQDEENRRQQEWDATHPVEAAERNYERARAEL NQANEDVARNQERQAKAVQVYNSRKSELDAANKTLADAIAEIKQFNRFAHDPMAGGHRMWQMA GLKAQRAQTDVNNKQAAFDAAAKEKSDADAALSAAQERRKQKENKEKDAKDKLDKESKRNKPGKA TGKGKPVGDKWLDDAGKDSGAPIPDRIADKLRDKEFKSFDDFRKAVWEEVSKDPELSKNLNPSNKSS VSKGYSPFTPKNQQVGGRKVYELHHDKPISQGGEVYDMDNIRVTTPKRHIDIHRGK

# >DP00343

MSGLGENLDPLASDSRKRKLPCDTPGQGLTCSGEKRRREQESKYIEELAELISANLSDIDNFNVKPDKC AILKETVRQIRQIKEQGKTISNDDDVQKADVSSTGQGVIDKDSLGPLLLQALDGFLFVVNRDGNIVFVS ENVTQYLQYKQEDLVNTSVYNILHEEDRKDFLKNLPKSTVNGVSWTNETQRQKSHTFNCRMLMKTP HDILEDINASPEMRQRYETMQCFALSQPRAMMEEGEDLQSCMICVARRITTGERTFPSNPESFITRHD LSGKVVNIDTNSLRSSMRPGFEDIIRRCIQRFFSLNDGQSWSQKRHYQEVTSDGIFSPTAYLNGHAETP VYRFSLADGTIVTAQTKSKLFRNPVTNDRHGFVSTHFLQREQNGYRPNPNPVGQGIRPPMAGCNSS VGGMSMSPNOGLOMPSSRAYGLADPSTTGOMSGARYGGSSNIASLTPGPGMOSPSSYONNNYRL

#### >DP00345

MGTRLTTLSNGLKNTLTATKSGLHKAGQSLTQAGSSLKTGAKKIILYIPQNYQYDTEQGNGLQDLVKA AEELGIEVQREERNNIATAQTSLGTIQTAIGLTERGIVLSAPQIDKLLQKTKAGQALGSAESIVQNANKA KTVLSGIQSILGSVLAGMDLDEALQNNSNQHALAKAGLELTNSLIENIANSVKTLDEFGEQISQFGSKL QNIKGLGTLGDKLKNIGGLDKAGLGLDVISGLLSGATAALVLADKNASTAKKVGAGFELANQVVGNIT KAVSSYILAQRVAAGLSSTGPVAALIASTVSLAISPLAFAGIADKFNHAKSLESYAERFKKLGYDGDNLL AEYQRGTGTIDASVTAINTALAAIAGGVSAAAAGSVIASPIALLVSGITGVISTILQYSKQAMFEHVANKI HNKIVEWEKNNHGKNYFENGYDARYLANLQDNMKFLLNLNKELQAERVIAITQQQWDNNIGDLAG ISRLGEKVLSGKAYVDAFEEGKHIKADKLVQLDSANGIIDVSNSGKAKTQHILFRTPLLTPGTEHRERVQ TGKYEYITKLNINRVDSWKITDGAASSTFDLTNVVQRIGIELDNAGNVTKTKETKIIAKLGEGDDNVFVG

SGTTEIDGGEGYDRVHYSRGNYGALTIDATKETEQGSYTVNRFVETGKALHEVTSTHTALVGNREEKIE YRHSNNOHHAGYYTKDTLKAVEEIIGTSHNDIFKGSKFNDAFNGGDGVDTIDGNDGNDRLFGGKGD DILDGGNGDDFIDGGKGNDLLHGGKGDDIFVHRKGDGNDIITDSDGNDKLSFSDSNLKDLTFEKVKH NLVITNSKKEKVTIQNWFREADFAKEVPNYKATKDEKIEEIIGQNGERITSKQVDDLIAKGNGKITQDEL SKVVDNYELLKHSKNVTNSLDKLISSVSAFTSSNDSRNVLVAPTSMLDQSLSSLQFARAA 

>DP00346

VIDRLVVQTSSGPVRGRSVTVQGREVHVYTGIPYAKPPVEDLRFRKPVPAEPWHGVLDATGLSATCV OERYEYFPGFSGEEIWNPNTNVSEDCLYINVWAPAKARLRHGRGANGGEHPNGKOADTDHLIHNG NPONTTNGLPILIWIYGGGFMTGSATLDIYNADIMAAVGNVIVASFQYRVGAFGFLHLAPEMPSEFAE EAPGNVGLWDQALAIRWLKDNAHAFGGNPEWMTLFGESAGSSSVNAQLMSPVTRGLVKRGMMQ SGTMNAPWSHMTSEKAVEIGKALINDCNCNASMLKTNPAHVMSCMRSVDAKTISVQQWNSYSGIL SFPSAPTIDGAFLPADPMTLMKTADLKDYDILMGNVRDEGTYFLLYDFIDYFDKDDATALPRDKYLEIM NNIFGKATQAEREAIIFQYTSWEGNPGYQNQQQIGRAVGDHFFTCPTNEYAQALAERGASVHYYYF THRTSTSLWGEWMGVLHGDEIEYFFGOPLNNSLOYRPVERELGKRMLSAVIEFAKTGNPAODGEEW PNFSKEDPVYYIFSTDDKIEKLARGPLAARCSFWNDYLPKVRSWAGTCDGDSGSLAS >DP00348

MAENLLDGPPNPKRAKLSSPGFSANDNTDFGSLFDLENDLPDELIPNGELSLLNSGNLVPDAASKHK QLSELLRGGSGSSINPGIGNVSASSPVQQGLGGQAQGQPNSTNMASLGAMGKSPLNQGDSSTPNL PKQAASTSGPTPPASQALNPQAQKQVGLVTSSPATSQTGPGICMNANFNQTHPGLLNSNSGHSLM NQAQQGQAQVMNGSLGAAGRGRGAGMPYPAPAMQGATSSVLAETLTQVSPQMAGHAGLNTA QAGGMTKMGMTGTTSPFGQPFSQTGGQQMGATGVNPQLASKQSMVNSLPAFPTDIKNTSVTTVP NMSQLQTSVGIVPTQAIATGPTADPEKRKLIQQQLVLLLHAHKCQRREQANGEVRACSLPHCRTMK NVLNHMTHCQAPKACQVAHCASSRQIISHWKNCTRHDCPVCLPLKNASDKRNQQTILGSPASGIQ

NTIGSVGAGQQNATSLSNPNPIDPSSMQRAYAALGLPYMNQPQTQLQPQVPGQQPAQPPAHQQ MRTLNALGNNPMSVPAGGITTDOOPPNLISESALPTSLGATNPLMNDGSNSGNIGSLSTIPTAAPPSS TGVRKGWHEHVTQDLRSHLVHKLVQAIFPTPDPAALKDRRMENLVAYAKKVEGDMYESANSRDEYY HLLAEKIYKIQKELEEKRRTRLHKQGILGNQPALPASGAQPPVIPPAQSVRPPNGPLPLPVNRMQVSQ GMNSFNPMSLGNVQLPQAPMGPRAASPMNHSVQMNSMASVPGMAISPSRMPQPPNMMGTHA NNIMAQAPTQNQFLPQNQFPSSSGAMSVNSVGMGQPAAQAGVSQGQEPGAALPNPLNMLAPQ ASOLPCPPVTQSPLHPTPPPASTAAGMPSLQHPTAPGMTPPQPAAPTQPSTPVSSGQTPTPTPGSVP SAAQTQSTPTVQAAAQAQVTPQPQTPVQPPSVATPQSSQQQPTPVHTQPPGTPLSQAAASIDNR VPTPSTVTSAETSSOOPGPDVPMLEMKTEVOTDDAEPEPTESKGEPRSEMMEEDLOGSSOVKEETDT TEQKSEPMEVEEKKPEVKVEAKEEEENSSNDTASQSTSPSQPRKKIFKPEELRQALMPTLEALYRQDPE SLPFROPVDPOLLGIPDYFDIVKNPMDLSTIKRKLDTGOYOEPWOYVDDVRLMFNNAWLYNRKTSR VYKFCSKLAEVFEQEIDPVMQSLGYCCGRKYEFSPQTLCCYGKQLCTIPRDAAYYSYQNRYHFCGKCF TEIQGENVTLGDDPSQPQTTISKDQFEKKKNDTLDPEPFVDCKECGRKMHQICVLHYDIIWPSGFVCD NCLKKTGRPRKENKFSAKRLQTTRLGNHLEDRVNKFLRRQNHPEAGEVFVRVVASSDKTVEVKPGMK SRFVDSGEMSESFPYRTKALFAFEEIDGVDVCFFGMHVQDTALIAPHQIQGCVYISYLDSIHFFRPRCLR TAVYHEILIGYLEYVKKLVYVTAHIWACPPSEGDDYIFHCHPPDOKIPKPKRLQEWYKKMLDKAFAERII NDYKDIFKOANEDRLTSAKELPYFEGDFWPNVLEESIKELEOEEEERKKEESTAASETPEGSOGDSKNA KKKNNKKTNKNKSSISRANKKKPSMPNVSNDLSQKLYATMEKHKEVFFVIHLHAGPVISTQPPIVDPD PLLSCDLMDGRDAFLTLARDKHWEFSSLRRSKWSTLCMLVELHTQGQDRFVYTCNECKHHVETRW HCTVCEDYDLCINCYNTKSHTHKMVKWGLGLDDEGSSQGEPQSKSPQESRRLSIQRCIQSLVHACQ CRNANCSLPSCOKMKRVVOHTKGCKRKTNGGCPVCKOLIALCCYHAKHCOENKCPVPFCLNIKHN VROOOIOHCLOOAOLMRRRMATMNTRNVPOOSLPSPTSAPPGTPTOOPSTPOTPOPPAOPOPS PVNMSPAGFPNVARTOPPTIVSAGKPTNOVPAPPPPAOPPPAAVEAARQIEREAQQQOHLYRANI NNGMPPGRDGMGTPGSQMTPVGLNVPRPNQVSGPVMSSMPPGQWQQAPIPQQQPMPGMPR PVMSMQAQAAVAGPRMPNVQPNRSISPSALQDLLRTLKSPSSPQQQQQVLNILKSNPQLMAAFIK QRTAKYVANQPGMQPQPGLQSQPGMQPQPGMHQQPSLQNLNAMQAGVPRPGVPPPQPAMG GLNPOGOALNIMNPGHNPNMTNMNPOYREMVRROLLOHOOOOOOOOOOOOONSASLA GGMAGHSOFOOPOGPGGYAPAMOOORMOOHLPIOGSSMGOMAAPMGOLGOMGOPGLGAD STPNIQQALQQRILQQQQMKQQIGSPGQPNPMSPQQHMLSGQPQASHLPGQQIATSLSNQVRS PAPVQSPRPQSQPPHSSPSPRIQPQPSPHHVSPQTGTPHPGLAVTMASSMDQGHLGNPEQSAMLP OLNTPNRSALSSELSLVGDTTGDTLEKFVEGL

### >DP00349

MKDNTVPLKLIALLANGEFHSGEQLGETLGMSRAAINKHIQTLRDWGVDVFTVPGKGYSLPEPIQLLN AKQILGQLDGGSVAVLPVIDSTNQYLLDRIGELKSGDACIAEYQQAGRGRRGRKWFSPFGANLYLSM FWRLEQGPAAAIGLSLVIGIVMAEVLRKLGADKVRVKWPNDLYLQDRKLAGILVELTGKTGDAAQIVI GAGINMAMRRVEESVVNQGWITLQEAGINLDRNTLAAMLIRELRAALELFEQEGLAPYLSRWEKLDN FINRPVKLIIGDKEIFGISRGIDKQGALLLEQDGIIKPWMGGEISLRSAEK

## >DP00350

MKTLADALKEFEVLSFEIDEQALAFDVDNIEMVIEKSDITPVPKSRHFVEGVINLRGRIIPVVNLAKILGISF DEQKMKSIIVARTKDVEVGFLVDRVLGVLRITENQLDLTNVSDKFGKKSKGLVKTDGRLIIYLDIDKIIEEI TVKEGV

# >DP00351

MDSSGASSPDMEPSYGGGLFDMVKGGAGRLFSNLKDNLKDTLKDTSSRVIQSVTSYTKGDLDFTYVT SRIIVMSFPLDSVDIGFRNQVDDIRSFLDSRHLDHYTVYNLSPKSYRTAKFHSRVSECSWPIRQAPSLH NLFAVCRNMYNWLLQNPKNVCVVHCLDGRAASSILVGAMFIFCNLYSTPGPAVRLLYAKRPGIGLSP SHRRYLGYMCDLLADKPYRPHFKPLTIKSITVSPVPFFNKQRNGCRPYCDVLIGETKIYTTCADFERMKE YRVQDGKIFIPLSITVQGDVVVSMYHLRSTIGSRLQAKVTNTQIFQLQFHTGFIPLDTTVLKFTKPELDA

CDVPEKYPQLFQVTLDVELQPHDKVMELTPPWEHYCTKDVNPSILFSSHQEHQDTLVLGGQAPIDIP PDNPRHFGQGGFFSTLCWQDQKSEKSFCEEDHAALVNQESEQSDDELLTLSSPHGNANGDKPHAA RKPSKKQQEPAAPAPPEDVDLLGLEGSAVSKNFSSPAAPPSNSELLSDLFGGGGAAGPVQSGQSGVD DVFHPSGPTSTQSTPRRSATSTSASPTLRVGEGATFDPFGAPSKPSGQDLLGSFLNTASASSDPFLQPT RSPSPTVHASSTPAVNIQPDVSGAWDWHTKPGGFGMGSKSAATSPTGSSHGTPTHQNKPQTLDPF ADLGTLGGSSFASKPSTPTGLGGGFPPLSSPQKASPQPMGGGWQQGGGYNWQQTQSKPQSSMP HSSPQNRPNYNVSFSSMPGGQNERGKAAANLEGKQKAADFEDLLSGQGFNAHKDKKGPRTIAEMR KEEMAKEMDPEKLKILEWIEGKERNIRALLSTMHTVLWAGETKWKPVGMADLVTPEQVKKVYRKAVL VVHPDKATGOPYEOYAKMIFMELNDAWSEFENOGOKPLY

>DP00353

MMNNNGNQVSNLSNALRQVNIGSRNSNTTTDQSNINFEFSTGVNNNNNNNNSSSNNNNVQNNN SGRNGSQNNDNENNIKNTLEQHRQQQQAFSDMSHVEYSRITKFFQEQPLEGYTLFSHRSAPNGFKV AIVLSELGFHYNTIFLDFNLGEHRAPEFVSVNPNARVPALIDHGMDNLSIWESGAILLHLVNKYYKETG NPLLWSDDLADQSQINAWLFFQTSGHAPMIGQALHFRYFHSQKIASAVERYTDEVRRVYGVVEMAL AERREALVMELDTENAAAYSAGTTPMSQSRFFDYPVWLVGDKLTIADLAFVPWNNVVDRIGINIKIEF PEVYKWTKHMMRRPAVIKALRGE

>DP00354

>DP00355

>DP00356

MADHMMAMNHGRFPDGTNGLHHHPAHRMGMGQFPSPHHHQQQQPQHAFNALMGEHIHYG AGNMNATSGIRHAMGPGTVNGGHPPSALAPAARFNNSQFMGPPVASQGGSLPASMQLQKLNNQ YFNHHPYPHNHYMPDLHPAAGHQMNGTNQHFRDCNPKHSGGSSTPGGSGGSSTPGGSGSSSGG GAGSSNSGGGSGSGNMPASVAHVPAAMLPPNVIDTDFIDEEVLMSLVIEMGLDRIKELPELWLGQN EFDFMTDFVCKOQPSRVSC

>DP00358

MQPASAKWYDRRDYVFIEFCVEDSKDVNVNFEKSKLTFSCLGGSDNFKHLNEIDLFHCIDPNDSKHK RTDRSILCCLRKGESGQSWPRLTKERAKLNWLSVDFNNWKDWEDDSDEDMSNFDRFSEMMNNM GGDEDVDLPEVDGADDDSQDSDDEKMPDLE

>DP00359

SGQPAVDLNKKVQDAVKEAEDACAKGTSADCAVAWDTVEELSAAVSHKKDAVKADVTLTDPLEAF CKDAPDADECRVYED

>DP00360

MSDKSDLKAELERKKQRLAQIREEKKRKEEERKKKEADMQQKKEPVQDDSDLDRKRRETEALLQSIGIS PEPPLVQPLHFLTWDTCYFHYLVPTPMSPSSKSVSTPSEAGSQDSGDLGPLTRTLQWDTDPSVLQLQ SDSELGRRLHKLGVSKVTQVDFLPREVVSYSKETQTPLATHQSEEDEEDEEMVESKVGQDSELENQDK KQEVKEAPPRELTEEEKQQILHSEEFLIFFDRTIRVIERALAEDSDIFFDYSGRELEEKDGDVQAGANLSF NRQFYDEHWSKHRVVTCMDWSLQYPELMVASYNNNEDAPHEPDGVALVWNMKFKKTTPEYVFH CQSSVMSVCFARFHPNLVVGGTYSGQIVLWDNRSHRRTPVQRTPLSAAAHTHPVYCVNVVGTQNA HNLITVSTDGKMCSWSLDMLSTPQESMELVYNKSKPVAVTGMAFPTGDVNNFVVGSEEGTVYTACR HGSKAGIGEVFEGHQGPVTGINCHMAVGPIDFSHLFVTSSFDWTVKLWTTKHNKPLYSFEDNADYVY DVMWSPVHPALFACVDGMGRLDLWNLNNDTEVPTASVAIEGASALNRVRWAQAGKEVAVGDSE

GRIWVYDVGELAVPHNDEWTRFARTLVEIRANRADSEEEGTVELSA

>DP00365

MAMAEGERTECAEPPRDEPPADGALKRAEELKTQANDYFKAKDYENAIKFYSQAIELNPSNAIYYGNR SLAYLRTECYGYALGDATRAIELDKKYIKGYYRRAASNMALGKFRAALRDYETVVKVKPHDKDAKMKY QECNKIVKQKAFERAIAGDEHKRSVVDSLDIESMTIEDEYSGPKLEDGKVTISFMKELMQWYKDQKKL HRKCAYQILVQVKEVLSKLSTLVETTLKETEKITVCGDTHGQFYDLLNIFELNGLPSETNPYIFNGDFVDR GSFSVEVILTLFGFKLLYPDHFHLLRGNHETDNMNQIYGFEGEVKAKYTAQMYELFSEVFEWLPLAQCI NGKVLIMHGGLFSEDGVTLDDIRKIERNRQPPDSGPMCDLLWSDPQPQNGRSISKRGVSCQFGPDV TKAFLEENNLDYIIRSHEVKAEGYEVAHGGRCVTVFSAPNYCDQMGNKASYIHLQGSDLRPQFHQFT AVPHPNVKPMAYANTLLQLGMM

>DP00373

MRLVVCLVFLASFALVCQGQVYKGGYTRPIPRPPPFVRPLPGGPIGPYNGCPVSCRGISFSQARSCCSR LGRCCHVGKGYSG

>DP00376

ESLFCESSGDSSLEKDSLGAPVGPSVSTPNSQHSSPSRSLSANSIKVEMYSDEESSRLLGPDERLLDKDD SVIVEDSLSEPLGYCDGSGPEPHSPGGIRLPNGKLKCDVCGMVCIGPNVLMVHKRSHTGERPFHCNQ CGASFTQKGNLLRHIKLHSGEKPFKCPFCNYACRRRDALTGHLRTHSVSSPTVGKPYKCNYCGRSYKQ QSTLEEHKERCHNYLQSLSTDAQALTGQPGDEIRDLEMVPDSMLHPSTERPTFIDRLANSLTKRKRST PQKFVGEKQMRFSLSDLPYDVNASGGYEKDVELVAHHGLEPGFGGSLAFVGTEHLRPLRLPPTNCISE LTPVISSVYTQMQPIPSRLELPGSREAGEGPEDLGDGGPLLYRARGSLTDPGASPSNGCQDSTDTESN HEDRIGGVGIPSSGSPPQPPPTIVVGRHSPAYAKEDPKPQEGLLRGTPGPSKEVLRVVGESGEPVKAFK CEHCRILFLDHVMFTIHMGCHGFRDPFECNICGYHSQDRYEFSSHIVRGEHKVG

>DP00377

MENQPKLNSSKEVIAFLAERFPHCFSAEGEARPLKIGIFQDLVDRVAGEMNLSKTQLRSALRLYTSSWR YLYGVKPGATRVDLDGNPCGELDEQHVEHARKQLEEAKARVQAQRAEQQAKKREAAATAGEKEDA PRRERKPRPTTPRRKEGAERKPRAQKPVEKAPKTVKAPREEQHTPVSDISALTVGQALKVKAGQNAM DATVLEITKDGVRVOLNSGMSLIVRAEHLVF

>DP00378

TGELDLTATQLSQGANGWQIISSSSGATPTSKEQSGSSTNGSNGSESSKNRTVSGGQYVVAAAPNLQ NQQVLTGLPGVMPNIQYQVIPQFQTVDGQQLQFAATGAQVQQDGSGQIQIIPGANQQIITNRGSG GNIIAAMPNLLQQAVPLQGLANNVLSGQTQYVTNVPVALNGNITLLPVNSVSAATLTPSSQAVTISS SGSQESGSQPVTSGTTISSASLVSSQASSSSFFTNANSYSTTTTTSNMGIMNFTTSGSSGTNSQGQTP QRVSGLQGSDALNIQQNQTSGGSLQAGQQKEGEQNQQTQQQQILIQPQLVQGGQALQALQAA PLSGQTFTTQAISQETLQNLQLQAVPNSGPIIIRTPTVGPNGQVSWQTLQLQNLQVQNPQAQTITLA PMQGVSLGQTSSSNTTLTPIASAASIPAGTVTVNAAQLSSMPGLQTINLSALGTSGIQVHPIQGLPLAI ANAPGDHGAQLGLHGAGGDGIHDDTAGGEEGENSPDAQPQAGRRTRREACTCPYCKDSEGRGSG DPGKKKQHICHIQGCGKVYGKTSHLRAHLRWHTGERPFMCTWSYCGKRFTRSDELQRHKRTHTGEK KFACPECPKRFMRSDHLSKHIKTHQNKKGGPGVALSVGTLPLDSGAGSEGSGTATPSALITTNMVAM EAICPEGIARLANSGINVMQVADLQSINISGNGF

>DP00379

MQRVHTITAVTEDGESLRFECRSDEDVITAALRQNIFLMSSCREGGCATCKALCSEGDYDLKGCSVQA LPPEEEEEGLVLLCRTYPKTDLEIELPYTHCRISFGEVGSFEAEVVGLNWVSSNTVQFLLQKRPDECGNR GVKFEPGQFMDLTIPGTDVSRSYSPANLPNPEGRLEFLIRVLPEGRFSDYLRNDARVGQVLSVKGPLGV FGLKERGMAPRYFVAGGTGLAPVVSMVRQMQEWTAPNETRIYFGVNTEPELFYIDELKSLERSMRNL TVKACVWHPSGDWEGEQGSPIDALREDLESSDANPDIYLCGPPGMIDAACELVRSRGIPGEQVFFEK FLPSGAA

>DP00380

MDIKSQTLYLNLSEAYKDPEVKANEFLSKLVVQCAGKLTASNSENSYIEVISLLSRGISSYYLSHKRIIPSS MLTIYTQIQKDIKNGNIDTEKLRKYEIAKGLMSVPYIYF

>DP00381

MNSSSANITYASRKRRKPVQKTVKPIPAEGIKSNPSKRHRDRLNTELDRLASLLPFPQDVINKLDKLSVL RLSVSYLRAKSFFDVALKSSPTERNGGQDNCRAANFREGLNLQEGEFLLQALNGFVLVVTTDALVFYA SSTIQDYLGFQQSDVIHQSVYELIHTEDRAEFQRQLHWALNPSQCTESGQGIEEATGLPQTVVCYNP DQIPPENSPLMERCFICRLRCLLDNSSGFLAMNFQGKLKYLHGQKKKGKDGSILPPQLALFAIATPLQP PSILEIRTKNFIFRTKHKLDFTPIGCDAKGRIVLGYTEAELCTRGSGYQFIHAADMLYCAESHIRMIKTGES GMIVFRLLTKNNRWTWVQSNARLLYKNGRPDYIIVTQRPLTDEEGTEHLRKRNTKLPFMFTTGEAVLY EATNPFPAIMDPLPLRTKNGTSGKDSATTSTLSKDSLNPSSLLAAMMQQDESIYLYPASSTSSTAPFEN NFFNESMNECRNWQDNTAPMGNDTILKHEQIDQPQDVNSFAGGHPGLFQDSKNSDLYSIMKNLG IDFEDIRHMQNEKFFRNDFSGEVDFRDIDLTDEILTYVQDSLSKSPFIPSDYQQQQSLALNSSCMVQE HLHLEQQQQHHQKQVVVEPQQQLCQKMKHMQVNGMFENWNSNQFVPFNCPQQDPQQYNVF TDLHGISQEFPYKSEMDSMPYTQNFISCNQPVLPQHSKCTELDYPMGSFEPSPYPTTSSLEDFVTCLQ LPENQKHGLNPQSAIITPQTCYAGAVSMYQCQPEPQHTHVGQMQYNPVLPGQQAFLNKFQNGVL NETYPAELNNINNTQTTTHLQPLHHPSEARPFPDLTSSGFL

#### >DP00385

MSGRPRTTSFAESCKPVQQPSAFGSMKVSRDKDGSKVTTVVATPGQGPDRPQEVSYTDTKVIGNGS FGVVYQAKLCDSGELVAIKKVLQDKRFKNRELQIMRKLDHCNIVRLRYFFYSSGEKKDEVYLNLVLDYV PETVYRVARHYSRAKQTLPVIYVKLYMYQLFRSLAYIHSFGICHRDIKPQNLLLDPDTAVLKLCDFGSAK QLVRGEPNVSYICSRYYRAPELIFGATDYTSSIDVWSAGCVLAELLLGQPIFPGDSGVDQLVEIIKVLGTP TREQIREMNPNYTEFKFPQIKAHPWTKVFRPRTPPEAIALCSRLLEYTPTARLTPLEACAHSFFDELRDP NVKLPNGRDTPALFNFTTQELSSNPPLATILIPPHARIQAAASTPTNATAASDANTGDRGQTNNAAS ASASNST

>DP00386

DEPPQSPWDRVKDLATVYVDVLKDSGRDYVSQFEGSALGKQLNLKLLDNWDSVTSTFSKLREQLGP VTQEFWDNLEKETEGLRQEMSKDLEEVKAKVQPYLDDFQKKWQEEMELYRQKVEPLRAELQEGARQ KLHELQEKLSPLGEEMRDRARAHVDALRTHLAPYSDELRQRLAARLEALKENGGARLAEYHAKATEHL STLSEKAKPALEDLROGLLPVLESFKVSFLSALEEYTKKLNTO

>DP00388

GLLCYCRKGHCKRGERVRGTCGIRFLYCCPRR 111100001111111000000000000001111

>DP00389

MPTITAAOIKSTLOSAKOSAANKLHSAGOSTKDALKKAAEOTRNAGNRLILLIPKDYKGOGSSLNDLV RTADELGIEVQYDEKNGTAITKQVFGTAEKLIGLTERGVTIFAPQLDKLLQKYQKAGNKLGGSAENIGD NLGKAGSVLSTFQNFLGTALSSMKIDELIKKQKSGGNVSSSELAKASIELINQLVDTAASLNNVNSFSQ QLNKLGSVLSNTKHLNGVGNKLQNLPNLDNIGAGLDTVSGILSAISASFILSNADADTGTKAAAGVEL TTKVLGNVGKGISQYIIAQRAAQGLSTSAAAAGLIASVVTLAISPLSFLSIADKFKRANKIEEYSQRFKKLG YDGDSLLAAFHKETGAIDASLTRISTVLASVSSGISAAATTSLVGAPVSALVGAVTGIISGILEASKQAMF EHVASKMADVIAEWEKKHGKNYFENGYDARHAAFLEDNFKILSQYNKEYSVERSVLITQQHWDTLIG ELAGVTRNGDKTLSGKSYIDYYEEGKRLEKKPDEFQKQVFDPLKGNIDLSDSKSSTLLKFVTPLLTPGEEI RERRQSGKYEYITELLVKGVDKWTVKGVQDKGSVYDYSNLIQHASVGNNQYREIRIESHLGDGDDKV FLSAGSANIYAGKGHDVVYYDKTDTGYLTIDGTKATEAGNYTVTRVLGGDVKVLQEVVKEQEVSVGK RTEKTOYRSYEFTHINGKNLTETDNLYSVEELIGTTRADKFFGSKFADIFHGADGDDHIEGNDGNDRLY GDKGNDTLSGGNGDDQLYGGDGNDKLIGGAGNNYLNGGDGDDELQVQGNSLAKNVLSGGKGN DKLYGSEGADLLDGGEGNDLLKGGYGNDIYRYLSGYGHHIIDDDGGKDDKLSLADIDFRDVAFRREG NDLIMYKAEGNVLSIGHKNGITFKNWFEKESGDISNHQIEQIFDKDGRVITPDSLKKALEYQQSNNKAS YVYGNDALAYGSQGNLNPLINEISKIISAAGNFDVKEERAAASLLQLSGNASDFSYGRNSITLTASA 

>DP00394

MRSKKLWISLLFALTLIFTMAFSNMSVQAAGKSSTEKKYIVGFKQTMSAMSSAKKKDVISEKGGKVQK QFKYVNAAAATLDEKAVKELKKDPSVAYVEEDHIAHEYAQSVPYGISQIKAPALHSQGYTGSNVKVAV IDSGIDSSHPDLNVRGGASFVPSETNPYQDGSSHGTHVAGTIAALNNSIGVLGVSPSASLYAVKVLDS TGSGQYSWIINGIEWAISNNMDVINMSLGGPTGSTALKTVVDKAVSSGIVVAAAAGNEGSSGSTSTV GYPAKYPSTIAVGAVNSSNQRASFSSAGSELDVMAPGVSIQSTLPGGTYGAYNGTSMATPHVAGAA ALILSKHPTWTNAOVRDRLESTATYLGNSFYYGKGLINVOAAAO

>DP00395

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

>DP00396

MASNQPNNGEQDEQLAKQTSKLSMSAKAPTFTPKAAPFIPSFQRPGFVPVNNIAGGYPYAQYTGQ GQNSNSPHPTKSYQQYYQKPTGNTVDEDKSRVPDFSKKKSFVPPKPAIPKGKVLSLGGNTSAPKSTKP ISISLGGTKAPTTTKPAAPAAQSKTETPAPKVTSESTKKETAAPPPQETPTKSADAELAKTPSAPAAALKK AAEAAEPATVTEDATDLONEVDOELLKDMYGKEHVNIVFIGHVDAGKSTLGGNILFLTGMVDKRTME KIEREAKEAGKESWYLSWALDSTSEEREKGKTVEVGRAYFETEHRRFSLLDAPGHKGYVTNMINGASQ ADIGVLVISARRGEFEAGFERGGQTREHAVLARTQGINHLVVVINKMDEPSVQWSEERYKECVDKLS MFLRRVAGYNSKTDVKYMPVSAYTGQNVKDRVDSSVCPWYQGPSLLEYLDSMTHLERKVNAPFIMP IASKYKDLGTILEGKIEAGSIKKNSNVLVMPINQTLEVTAIYDEADEEISSSICGDQVRLRVRGDDSDVQT GYVLTSTKNPVHATTRFIAQIAILELPSILTTGYSCVMHIHTAVEEVSFAKLLHKLDKTNRKSKKPPMFAT KGMKIIAELETQTPVCMERFEDYQYMGRFTLRDQGTTVAVGKVVKILD

>DP00398

MIRQSTLKNFAIKRCFQHIAYRNTPAMRSVALAQRFYSSSSRYYSASPLPASKRPEPAPSFNVDPLEQP AEPSKLAKKLRAEPDMDTSFVGLTGGQIFNEMMSRQNVDTVFGYPGGAILPVYDAIHNSDKFNFVLP KHEQGAGHMAEGYARASGKPGVVLVTSGPGATNVVTPMADAFADGIPMVVFTGQVPTSAIGTDAF QEADVVGISRSCTKWNVMVKSVEELPLRINEAFEIATSGRPGPVLVDLPKDVTAAILRNPIPTKTTLPSN ALNQLTSRAQDEFVMQSINKAADLINLAKKPVLYVGAGILNHADGPRLLKELSDRAQIPVTTTLQGLG SFDQEDPKSLDMLGMHGCATANLAVQNADLIIAVGARFDDRVTGNISKFAPEARRAAAEGRGGIIHF EVSPKNINKVVQTQIAVEGDATTNLGKMMSKIFPVKERSEWFAQINKWKKEYPYAYMEETPGSKIKPQ TVIKKLSKVANDTGRHVIVTTGVGQHQMWAAQHWTWRNPHTFITSGGLGTMGYGLPAAIGAQVA KPESLVIDIDGDASFNMTLTELSSAVQAGTPVKILILNNEEQGMVTQWQSLFYEHRYSHTHQLNPDFI KLAEAMGLKGLRVKKQEELDAKLKEFVSTKGPVLLEVEVDKKVPVLPMVAGGSGLDEFINFDPEVERQ OTELRHKRTGGKH

>DP00401

MQRTPAMRVLVPALLVAISALSGCGKSEAPPPAQTPEVGIVTLEAQTVTLNTELPGRTNAFRIAEVRP QVNGIILKRLFKEGSDVKAGQQLYQIDPATYEADYQSAQANLASTQEQAQRYKLLVADQAVSKQQY ADANAAYLQSKAAVEQARINLRYTKVLSPISGRIGRSAVTEGALVTNGQANAMATVQQLDPIYVDVT QPSTALLRLRRELASGQLERAGDNAAKVSLKLEDGSQYPLEGRLEFSEVSVDEGTGSVTIRAVFPNPN NELLPGMFVHAQLQEGVKQKAILAPQQGVTRDLKGQATALVVNAQNKVELRVIKADRVIGDKWLVT EGLNAGDKIITEGLQFVQPGVEVKTVPAKNVASAQKADAAPAKTDSKG

>DP00404

MDGPAEPQIPGLWDTYEDDISEISQKLPGEYFRYKGVPFPVGLYSLESISLAENTQDVRDDDIFIITYPKS GTTWMIEIICLILKEGDPSWIRSVPIWERAPWCETIVGAFSLPDQYSPRLMSSHLPIQIFTKAFFSSKAKVI YMGRNPRDVVVSLYHYSKIAGQLKDPGTPDQFLRDFLKGEVQFGSWFDHIKGWLRMKGKDNFLFIT YEELQQDLQGSVERICGFLGRPLGKEALGSVVAHSTFSAMKANTMSNYTLLPPSLLDHRRGAFLRKGV CGDWKNHFTVAQSEAFDRAYRKQMRGMPTFPWDEDPEEDGSPDPEPSPEPEPKPSLEPNTSLEREP RPNSSPSPGOASETPHPRPS

>DP00407

MSMDISDFYQTFFDEADELLADMEQHLLVLQPEAPDAEQLNAIFRAAHSIKGGAGTFGFSVLQETTH LMENLLDEARRGEMQLNTDIINLFLETKDIMQEQLDAYKQSQEPDAASFDYICQALRQLALEAKGETP SAVTRLSVVAKSEPQDEQSRSQSPRRIILSRLKAGEVDLLEEELGHLTTLTDVVKGADSLSAILPGDIAED DITAVLCFVIEADQITFETVEVSPKISTPPVLKLAAEQAPTGRVEREKTTRSNESTSIRVAVEKVDQLINLV GELVITQSMLAQRSSELDPVNHGDLITSMGQLQRNARDLQESVMSIRMMPMEYVFSRYPRLVRDLA GKLGKQVELTLVGSSTELDKSLIERIIDPLTHLVRNSLDHGIELPEKRLAAGKNSVGNLILSAEHQGGNICI EVTDDGAGLNRERILAKAASQGLTVSENMSDDEVAMLIFAPGFSTAEQVTDVSGRGVGMDVVKRNI QKMGGHVEIQSKQGTGTTIRILLPLTLAILDGMSVRVADEVFILPLNAVMESLQPREADLHPLAGGERV LEVRGEYLPIVELWKVFNVAGAKTEATQGIVVILQSGGRRYALLVDQLIGQHQVVVKNLESNYRKVPGI SAATILGDGSVALIVDVSALQAINREQRMANTAA

>DP00408

MQAIKCVVVGDGAVGKTCLLISYTTNAFPGEYIPTVFDNYSANVMVDGKPVNLGLWDTAGQEDYDR LRPLSYPQTDVFLICFSLVSPASFENVRAKWYPEVRHHCPNTPIILVGTKLDLRDDKDTIEKLKEKKLTPIT YPOGLAMAKEIGAVKYLECSALTORGLKTVFDEAIRAVLCPPPVKKRKRKCLLL

>DP00415

MDIRKIKKLIELVEESGISELEISEGEESVRISRAAPAASFPVMQQAYAAPMMQQPAQSNAAAPATVPS MEAPAAAEISGHIVRSPMVGTFYRTPSPDAKAFIEVGQKVNVGDTLCIVEAMKMMNQIEADKSGTVK AILVESGOPVEFDEPLVVIE

>DP00418

MRSPRTRGRSGRPLSLLLALLCALRAKVCGASGOFELEILSMONVNGELONGNCCGGARNPGDRKC TRDECDTYFKVCLKEYOSRVTAGGPCSFGSGSTPVIGGNTFNLKASRGNDRNRIVLPFSFAWPRSYTLL VEAWDSSNDTVOPDSIIEKASHSGMINPSROWOTLKONTGVAHFEYOIRVTCDDYYYGFGCNKFCR PRDDFFGHYACDQNGNKTCMEGWMGPECNRAICRQGCSPKHGSCKLPGDCRCQYGWQGLYCD KCIPHPGCVHGICNEPWQCLCETNWGGQLCDKDLNYCGTHQPCLNGGTCSNTGPDKYQCSCPEG YSGPNCEIAEHACLSDPCHNRGSCKETSLGFECECSPGWTGPTCSTNIDDCSPNNCSHGGTCQDLV NGFKCVCPPOWTGKTCQLDANECEAKPCVNAKSCKNLIASYYCDCLPGWMGQNCDININDCLGQ CONDASCRDLVNGYRCICPPGYAGDHCERDIDECASNPCLNGGHCONEINRFOCLCPTGFSGNLC QLDIDYCEPNPCQNGAQCYNRASDYFCKCPEDYEGKNCSHLKDHCRTTPCEVIDSCTVAMASNDTP EGVRYISSNVCGPHGKCKSQSGGKFTCDCNKGFTGTYCHENINDCESNPCRNGGTCIDGVNSYKCIC SDGWEGAYCETNINDCSQNPCHNGGTCRDLVNDFYCDCKNGWKGKTCHSRDSQCDEATCNNGG TCYDEGDAFKCMCPGGWEGTTCNIARNSSCLPNPCHNGGTCVVNGESFTCVCKEGWEGPICAQNT NDCSPHPCYNSGTCVDGDNWYRCECAPGFAGPDCRININECQSSPCAFGATCVDEINGYRCVCPP GHSGAKCQEVSGRPCITMGSVIPDGAKWDDDCNTCQCLNGRIACSKVWCGPRPCLLHKGHSECPS GQSCIPILDDQCFVHPCTGVGECRSSSLQPVKTKCTSDSYYQDNCANITFTFNKEMMSPGLTTEHICS ELRNLNILKNVSAEYSIYIACEPSPSANNEIHVAISAEDIRDDGNPIKEITDKIIDLVSKRDGNSSLIAAVAE VRVORRPLKNRTDFLVPLLSSVLTVAWICCLVTAFYWCLRKRRKPGSHTHSASEDNTTNNVREOLNO IKNPIEKHGANTVPIKDYENKNSKMSKIRTHNSEVEEDDMDKHOOKARFAKOPAYTLVDREEKPPNG **TPTKHPNWTNKQDNRDLESAQSLNRMEYIV** 

>DP00423

MAPKKSTTKTTSKGKKPATSKGKEKSTSKAAIKKTTAKKEEASSKSYRELIIEGLTALKERKGSSRPALKKFI KENYPIVGSASNFDLYFNNAIKKGVEAGDFEQPKGPAGAVKLAKKKSPEVKKEKEVSPKPKQAATSVS ATASKAKAASTKLAPKKVVKKKSPTVTAKKASSPSSLTYKEMILKSMPQLNDGKGSSRIVLKKYVKDTFS SKLKTSSNFDYLFNSAIKKCVENGELVQPKGPSGIIKLNKKKVKLST

>DP00424

MAGRSGDSDEELLKAVRLIKFLYQSNPPPNPEGTRQARRNRRRRWRERQRQIHSISERILSTYLGRSAE PVPLQLPPLERLTLDCNEDCGTSGTQGVGSPQILVESPTILESGAKE

>DP00426

MEELQDDYEDMMEENLEQEEYEDPDIPESQMEEPAAHDTEATATDYHTTSHPGTHKVYVELQELVM DEKNQELRWMEAARWVQLEENLGENGAWGRPHLSHLTFWSLLELRRVFTKGTVLLDLQETSLAGVA NQLLDRFIFEDQIRPQDREELLRALLLKHSHAGELEALGGVKPAVLTRSGDPSQPLLPQHSSLETQLFCE QGDGGTEGHSPSGILEKIPPDSEATLVLVGRADFLEQPVLGFVRLQEAAELEAVELPVPIRFLFVLLGPEA PHIDYTQLGRAAATLMSERVFRIDAYMAQSRGELLHSLEGFLDCSLVLPPTDAPSEQALLSLVPVQREL LRRRYQSSPAKPDSSFYKGLDLNGGPDDPLQQTGQLFGGLVRDIRRRYPYYLSDITDAFSPQVLAAVIF IYFAALSPAITFGGLLGEKTRNQMGVSELLISTAVQGILFALLGAQPLLVVGFSGPLLVFEEAFFSFCETN GLEYIVGRVWIGFWLILLVVLVVAFEGSFLVRFISRYTQEIFSFLISLIFIYETFSKLIKIFQDHPLQKTYNYNV LMVPKPQGPLPNTALLSLVLMAGTFFFAMMLRKFKNSSYFPGKLRRVIGDFGVPISILIMVLVDFFIQDT YTQKLSVPDGFKVSNSSARGWVIHPLGLRSEFPIWMMFASALPALLVFILIFLESQITTLIVSKPERKMVK GSGFHLDLLLVVGMGGVAALFGMPWLSATTVRSVTHANALTVMGKASTPGAAAQIQEVKEQRISGL LVAVLVGLSILMEPILSRIPLAVLFGIFLYMGVTSLSGIQLFDRILLLFKPPKYHPDVPYVKRVKTWRMHLF TGIQIICLAVLWVVKSTPASLALPFVLILTVPLRRVLLPLIFRNVELQCLDADDAKATFDEEEGRDEYDEV AMPV

## >DP00428

MSAAVTAGKLARAPADPGKAGVPGVAAPGAPAAAPPAKEIPEVLVDPRSRRRYVRGRFLGKGGFAK CFEISDADTKEVFAGKIVPKSLLLKPHQREKMSMEISIHRSLAHQHVVGFHGFFEDNDFVFVVLELCRR RSLLELHKRRKALTEPEARYYLRQIVLGCQYLHRNRVIHRDLKLGNLFLNEDLEVKIGDFGLATKVEYDG ERKKTLCGTPNYIAPEVLSKKGHSFEVDVWSIGCIMYTLLVGKPPFETSCLKETYLRIKKNEYSIPKHINPV AASLIQKMLQTDPTARPTINELLNDEFFTSGYIPARLPITCLTIPPRFSIAPSSLDPSNRKPLTVLNKGLEN PLPERPREKEEPVVRETGEVVDCHLSDMLQQLHSVNASKPSERGLVRQEEAEDPACIPIFWVSKWVD YSDKYGLGYQLCDNSVGVLFNDSTRLILYNDGDSLQYIERDGTESYLTVSSHPNSLMKKITLLKYFRNY MSEHLLKAGANITPREGDELARLPYLRTWFRTRSAIILHLSNGSVQINFFQDHTKLILCPLMAAVTYIDE KRDFRTYRLSLLEEYGCCKELASRLRYARTMVDKLLSSRSASNRLKAS

## >DP00430

ARTFFVGGNFKLNGSKQSIKEIVERLNTASIPENVEVVICPPATYLDYSVSLVKKPQVTVGAQNAYLKAS GAFTGENSVDQIKDVGAKWVILGHSERRSYFHEDDKFIADKTKFALGQGVGVILCIGETLEEKKAGKTL DVVERQLNAVLEEVKDWTNVVVAYEPVWAIGTGLAATPEDAQDIHASIRKFLASKLGDKAASELRILY GGSANGSNAVTFKDKADVDGFLVGGASLKPEFVDIINSRN

## >DP00431

MYHPSCKGYVLLLANMASFAILVDTFLMGVHNPSHVVPVVALMTLCATPLWLSASYVIYLLRYMLVR LSPEAKQDRVYYTATTAPYFDPALGVMMQFAPSSGGPSIEVQINPSWISLLGSSLKLNVGDASNESAV LGSFYSPVKAGDEPASLVAIKSGPTTIGFGCRTKIDGEDCLLTAHHVWCNSMRPTGLAKAGKQVSVED WEISMSSSDKMLDFAIVRVPTHVWSKLGVKSTPLVCPSSKDVITCYGGSSSDCLMSGVGSSSTSEFTW KLTHTCPTAAGWSGTPLYSSRGVVGMHVGFEEIGKLNRGVNMFYVANYLLRSNETLPPELSIIEIPFDD

VETRSYEFIEVEIKGRGKAKLGKREFAWIPESGKYWADEDEDELPPPPKLVGGKLVWENAQETVAVENL NCQRAAGSRPLPPSLNLHATSSAKEKSPLPKACHSDLLGERLASLESCVEKILQKMSCEQYLPSQSSQT TLGQSEAPKLSLAPCYYKQESLILPESQQTLKELVKTSLSATPPPNPVAALDQKPGPSTQSLKKSVRRRN RRKSTEKASPGVPLSRLASTNKDLLKRHLQLVALCVTERLFLLSEAPDLHYLSPTQLVELGYCDPVRIFVK QEPHASRKVREGRFRLISSVSLVDQLVERMLFGPQNQLEIAEWERIPSKPGMGLSLDRQARSLFGDLR VKHSRCPAAEADISGFDWSVQDWELWADVEMRVVLGGFGQTLARAARNRFSCFMNSVFQLSDGT LIEQLQPGIMKSGSYCTSSTNSRIRCLMAELIGSPWCIAMGDDSVEGWVDGAKDKYMRLGHVCKDY KPCATTPEGDLYEVEFCSHVIRANRCWLASWPKTLFKYLSEAKWFFEDIERELETSPHWPRIRHYLVGN TPSPHKIGKSSPPYGEKAFETTVSQGYSEHSGDATPAESWAEAKPEEAAFCCAAASAYPGWNIHGPV CSGCYGADS

MVTPREPKKRTTRKKKDPNAPKRALSAYMFFANENRDIVRSENPDITFGQVGKKLGEKWKALTPEEKQ PYEAKAQADKKRYESEKELYNATLA

>DP00434

MSAESASQIPKGQVDLLDFIDWSGVECLNQSSSHSLPNALKQGYREDEGLNLESDADEQLLIYIPFNQ VIKLHSFAIKGPEEEGPKTVKFFSNKEHMCFSNVNDFPPSDTAELTEENLKGKPVVLKYVKFQNVRSLTI FIEANQSGSEVTKVQKIALYGST

>DP00435

MASGADSKGDDLSTAILKQKNRPNRLIVDEAINEDNSVVSLSQPKMDELQLFRGDTVLLKGKKRREA VCIVLSDDTCSDEKIRMNRVVRNNLRVRLGDVISIQPCPDVKYGKRIHVLPIDDTVEGITGNLFEVYLKP YFLEAYRPIRKGDIFLVRGGMRAVEFKVVETDPSPYCIVAPDTVIHCEGEPIKREDEEESLNEVGYDDVG GCRKQLAQIKEMVELPLRHPALFKAIGVKPPRGILLYGPPGTGKTLIARAVANETGAFFFLINGPEIMSKL AGESESNLRKAFEEAEKNAPAIIFIDELDAIAPKREKTHGEVERRIVSQLLTLMDGLKQRAHVIVMAATN RPNSIDPALRRFGRFDREVDIGIPDATGRLEILQIHTKNMKLADDVDLEQVANETHGHVGADLAALCS EAALQAIRKKMDLIDLEDETIDAEVMNSLAVTMDDFRWALSQSNPSALRETVVEVPQVTWEDIGGLE DVKRELQELVQYPVEHPDKFLKFGMTPSKGVLFYGPPGCGKTLLAKAIANECQANFISIKGPELLTMWF

GESEANVREIFDKARQAAPCVLFFDELDSIAKARGGNIGDGGGAADRVINQILTEMDGMSTKKNVFII GATNRPDIIDPAILRPGRLDQLIYIPLPDEKSRVAILKANLRKSPVAKDVDLEFLAKMTNGFSGADLTEIC QRACKLAIRESIESEIRRERERQTNPSAMEVEEDDPVPEIRRDHFEEAMRFARRSVSDNDIRKYEMFAQ TLQQSRGFGSFRFPSGNQGGAGPSQGSGGGTGGSVYTEDNDDDLYG

>DP00436

MAFSARFPLWLLLGVVLLASVSASFAHSGHSGGEAEDESEESRAQNNPYLFRSNKFLTLFKNQHGSLR LLQRFNEDTEKLENLRDYRVLEYCSKPNTLLLPHHSDSDLLVLVLEGQAILVLVNPDGRDTYKLDQGD AIKIQAGTPFYLINPDNNQNLRILKFAITFRRPGTVEDFFLSSTKRLPSYLSAFSKNFLEASYDSPYDEIEQT LLQEEQEGVIVKMPKDQIQEISKHAQSSSRKTLSSQDKPFNLRSRDPIYSNNYGKLYEITPEKNSQLRDL DILLNCLQMNEGALFVPHYNSRATVILVANEGRAEVELVGLEQQQQQGLESMQLRRYAATLSEGDII VIPSSFPVALKAASDLNMVGIGVNAENNERNFLAGHKENVIRQIPRQVSDLTFPGSGEEVEELLENQK ESYFVDGOPRHIDAGGKARRAHLPNLFRTFY

MSGTEEAILGGRDSHPAAGGGSVLCFGQCQYTAEEYQAIQKALRQRLGPEYISSRMAGGGQKVCYIE GHRVINLANEMFGYNGWAHSITQQNVDFVDLNNGKFYVGVCAFVRVQLKDGSYHEDVGYGVSEG LKSKALSLEKARKEAVTDGLKRALRSFGNALGNCILDKDYLRSLNKLPRQLPLEVDLTKAKRQDLEPSVE EARYNSCRPNMALGHPQLQQVTSPSRPSHAVIPADQDCSSRSLSSSAVESEATHQRKLRQKQLQQ QFRERMEKQQVRVSTPSAEKSEAAPPAPPVTHSTPVTVSEPLLEKDFLAGVTQELIKTLEDNSEKWAVT PDAGDGVVKPSSRADPAQTSDTLALNNQMVTQNRTPHSVCHQKPQAKSGSWDLQTYSADQRTT GNWESHRKSQDMKKRKYDPS

>DP00438

>DP00443

MSEKKLETTAQQRKCPEWMNVQNKRCAVEERKACVRKSVFEDDLPFLEFTGSIVYSYDASDCSFLSE DISMSLSDGDVVGFDMEWPPLYNRGKLGKVALIOLCVSESKCYLFHVSSMSVFPOGLKMLLENKAVK KAGVGIEGDQWKLLRDFDIKLKNFVELTDVANKKLKCTETWSLNSLVKHLLGKQLLKDKSIRCSNWSK FPLTEDOKLYAATDAYAGFIIYRNLEILDDTVORFAINKEEEILLSDMNKOLTSISEEVMDLAKHLPHAFS KLENPRRVSILLKDISENLYSLRRMIIGSTNIETELRPSNNLNLLSFEDSTTGGVOOKQIREHEVLIHVEDE TWDPTLDHLAKHDGEDVLGNKVERKEDGFEDGVEDNKLKENMERACLMSLDITEHELQILEQQSQE EYLSDIAYKSTEHLSPNDNENDTSYVIESDEDLEMEMLKHLSPNDNENDTSYVIESDEDLEMEMLKSLE NLNSGTVEPTHSKCLKMERNLGLPTKEEEEDDENEANEGEEDDDKDFLWPAPNEEQVTCLKMYFGH SSFKPVQWKVIHSVLEERRDNVAVMATGYGKSLCFQYPPVYVGKIGLVISPLISLMEDQVLQLKMSNI PACFLGSAQSENVLTDIKLGKYRIVYVTPEYCSGNMGLLQQLEADIGITLIAVDEAHCISEWGHDFRDS FRKLGSLKTALPMVPIVALTATASSSIREDIVRCLNLRNPQITCTGFDRPNLYLEVRRKTGNILQDLQPFL VKTSSHWEFEGPTIIYCPSRKMTQQVTGELRKLNLSCGTYHAGMSFSTRKDIHHRFVRDEIQCVIATIAF GMGINKADIRQVIHYGAPKDMESYYQEIGRAGRDGLQSSCHVLWAPADINLNRHLLTEIRNEKFRLYK LKMMAKMEKYLHSSRCRRQIILSHFEDKQVQKASLGIMGTEKCCDNCRSRLDHCYSMDDSEDTSWD FGPQAFKLLSAVDILGEKFGIGLPILFLRGSNSQRLADQYRRHSLFGTGKDQTESWWKAFSRQLITEGFL VEVSRYNKFMKICALTKKGRNWLHKANTESOSLILOANEELCPKKFLLPSSKTVSSGTKEHCYNOVPVE LSTEKKSNLEKLYSYKPCDKISSGSNISKKSIMVQSPEKAYSSSQPVISAQEQETQIVLYGKLVEARQKHA NKMDVPPAILATNKILVDMAKMRPTTVENVKRIDGVSEGKAAMLAPLLEVIKHFCQTNSVQTDLFSST KPQEEQKTSLVAKNKICTLSQSMAITYSLFQEKKMPLKSIAESRILPLMTIGMHLSQAVKAGCPLDLERA GLTPEVOKIIADVIRNPPVNSDMSKISLIRMLVPENIDTYLIHMAIEILKHGPDSGLOPSCDVNKRRCFP GSEEICSSSKRSKEEVGINTETSSAERKRRLPVWFAKGSDTSKKLMDKTKRGGLFS 

>DP00445

MDIAIHHPWIRRPFFPFHSPSRLFDQFFGEHLLESDLFPTSTSLSPFYLRPPSFLRAPSWFDTGLSEMRLE KDRFSVNLDVKHFSPEELKVKVLGDVIEVHGKHEERQDEHGFISREFHRKYRIPADVDPLTITSSLSSDG VLTVNGPRKQVSGPERTIPITREEKPAVTAAPKK

>DP00446

MVTHSKFPAAGMSRPLDTSLRLKTFSSKSEYQLVVNAVRKLQESGFYWSAVTGGEANLLLSAEPAGTF LIRDSSDQRHFFTLSVKTQSGTKNLRIQCEGGSFSLQSDPRSTQPVPRFDCVLKLVHHYMPPPGTPSFS LPPTEPSSEVPEQPPAQALPGSTPKRAYYIYSGGEKIPLVLSRPLSSNVATLQHLCRKTVNGHLDSYEKV TOLPGPIREFLDOYDAPL

MEKFAPEFHGEDANNRATKFLESIKGKFTSPKDPKKKDSIISVNSIDIEVTKESPITSNSTIINPTNETDDT VGNKPNYQRKPLVSFKEDPTPSDNPFSKLYKETIETFDNNEEESSYSYEEINDQTNDNITARLDRIDEKL SEILGMLHTLVVASAGPTSARDGIRDAMVGLREEMIEKIRTEALMTNDRLEAMARLRNEESEKMAKDT SDEVSLNPTSEKLNNLLEGNDSDNDLSLEDF

>DP00448

MAGGEDRGDGEPVSVVTVRVQYLEDTDPFACANFPEPRRAPTCSLDGALPLGAQIPAVHRLLGAPLK LEDCALQVSPSGYYLDTELSLEEQREMLEGFYEEISKGRKPTLILRTQLSVRVNAILEKLYSSSGPELRRSL FSLKQIFQEDKDLVPEFVHSEGLSCLIRVGAAADHNYQSYILRALGQLMLFVDGMLGVVAHSDTIQW LYTLCASLSRLVVKTALKLLLVFVEYSENNAPLFIRAVNSVASTTGAPPWANLVSILEEKNGADPELLVYT VTLINKTLAALPDQDSFYDVTDALEQQGMEALVQRHLGTAGTDVDLRTQLVLYENALKLEDGDIEEA PGAGGRRERKPSSEEGKRSRRSLEGGGCPARAPEPGPTGPASPVGPTSSTGPALLTGPASSPVGPPS GLQASVNLFPTISVAPSADTSSERSIYKARFLENVAAAETEKQVALAQGRAETLAGAMPNEAGGHPD ARQLWDSPETAPAARTPQSPAPCVLLRAQRSLAPEPKEPLIPASPKAEPIWELPTRAPRLSIGDLDFSDL GEDEDQDMLNVESVEAGKDIPAPSPPLPLLSGVPPPPPLPPPPPIKGPFPPPPPLPLAAPLPHSVPDSSA LPTKRKTVKLFWRELKLAGGHGVSASRFGPCATLWASLDPVSVDTARLEHLFESRAKEVLPSKKAGEG RRTMTTVLDPKRSNAINIGLTTLPPVHVIKAALLNFDEFAVSKDGIEKLLTMMPTEEERQKIEEAQLANP DIPLGPAENFLMTLASIGGLAARLQLWAFKLDYDSMEREIAEPLFDLKVGMEQLVQNATFRCILATLLA VGNFLNGSQSSGFELSYLEKVSEVKDTVRRQSLLHHLCSLVLQTRPESSDLYSEIPALTRCAKVDFEQLT ENLGQLERRSRAAEESLRSLAKHELAPALRARLTHFLDQCARRVAMLRIVHRRVCNRFHAFLLYLGYTP QAAREVRIMQFCHTLREFALEYRTCRERVLQQQQKQATYRERNKTRGRMITETEKFSGVAGEAPSNP

SVPVAVSSGPGRGDADSHASMKSLLTSRPEDTTHNRRSRGMVQSSSPIMPTVGPSTASPEEPPGSSL PSDTSDEIMDLLVQSVTKSSPRALAARERKRSRGNRKSLRRTLKSGLGDDLVQALGLSKGPGLEV 

### >DP00450

MTADELVFFVNGKKVVEKNADPETTLLAYLRRKLGLRGTKLGCGEGGCGACTVMLSKYDRLQDKIIHF SANACLAPICTLHHVAVTTVEGIGSTKTRLHPVQERIAKSHGSQCGFCTPGIVMSMYTLLRNQPEPTV EEIEDAFOGNLCRCTGYRPILOGFRTFAKNGGCCGGNGNNPNCCMNOKKDHTVTLSPSLFNPEEFM PLDPTQEPIFPPELLRLKDVPPKQLRFEGERVTWIQASTLKELLDLKAQHPEAKLVVGNTEIGIEMKFKN QLFPMIICPAWIPELNAVEHGPEGISFGAACALSSVEKTLLEAVAKLPTQKTEVFRGVLEQLRWFAGKQ VKSVASLGGNIITASPISDLNPVFMASGTKLTIVSRGTRRTVPMDHTFFPSYRKTLLGPEEILLSIEIPYSRE DEFFSAFKQASRREDDIAKVTCGMRVLFQPGSMQVKELALCYGGMADRTISALKTTQKQLSKFWNEK LLODVCAGLAEELSLSPDAPGGMIEFRRTLTLSFFFKFYLTVLKKLGKDSKDKCGKLDPTYTSATLLFOK HPPANIQLFQEVPNGOSKEDTVGRPLPHLAAAMOASGEAVYCDDIPRYENELFLRLVTSTRAHAKIKS IDVSEAQKVPGFVCFLSADDIPGSNETGLFNDETVFAKDTVTCVGHIIGAVVADTPEHAERAAHVVKV TYEDLPAIITIEDAIKNNSFYGSELKIEKGDLKKGFSEADNVVSGELYIGGQDHFYLETHCTIAIPKGEEGE MELFVSTQNAMKTQSFVAKMLGVPVNRILVRVKRMGGGFGGKETRSTLVSVAVALAAYKTGHPVRC MLDRNEDMLITGGRHPFLARYKVGFMKTGTIVALEVDHYSNAGNSRDLSHSIMERALFHMDNCYKIP NIRGTGRLCKTNLSSNTAFRGFGGPOALFIAENWMSEVAVTCGLPAEEVRWKNMYKEGDLTHFNOR LEGFSVPRCWDECLKSSQYYARKSEVDKFNKENCWKKRGLCIIPTKFGISFTVPFLNQAGALIHVYTDG SVLVSHGGTEMGQGLHTKMVQVASKALKIPISKIYISETSTNTVPNSSPTAASVSTDIYGQAVYEACQT ILKRLEPFKKKNPDGSWEDWVMAAYQDRVSLSTTGFYRTPNLGYSFETNSGNAFHYFTYGVACSEVEI DCLTGDHKNLRTDIVMDVGSSLNPAIDIGOVEGAFVQGLGLFTLEELHYSPEGSLHTRGPSTYKIPAFG SIPTEFRVSLLRDCPNKKAIYASKAVGEPPLFLGASVFFAIKDAIRAARAOHTNNNTKELFRLDSPATPEK IRNACVDKFTTLCVTGAPGNCKPWSLRV

>DP00455

MIGGLFIYNHKGEVLISRVYRDDIGRNAVDAFRVNVIHARQQVRSPVTNIARTSFFHVKRSNIWLAAV TKQNVNAAMVFEFLYKMCDVMAAYFGKISEENIKNNFVLIYELLDEILDFGYPQNSETGALKTFITQQG IKSQHQTKEEQSQITSQVTGQIGWRREGIKYRRNELFLDVLESVNLLMSPQGQVLSAHVSGRVVMKS YLSGMPECKFGMNDKIVIEKQGKGTADETSKSGKQSIAIDDCTFHQCVRLSKFDSERSISFIPPDGEFEL MRYRTTKDIILPFRVIPLVREVGRTKLEVKVVIKSNFKPSLLAQKIEVRIPTPLNTSGVQVICMKGKAKYKA SENAIVWKIKRMAGMKESQISAEIELLPTNDKKKWARPPISMNFEVPFAPSGLKVRYLKVFEPKLNYSD HDVIKWVRYIGRSGIYETRC

>DP00457

MEAVLNELVSVEDLLKFEKKFQSEKAAGSVSKSTQFEYAWCLVRSKYNDDIRKGIVLLEELLPKGSKEEQ RDYVFYLAVGNYRLKEYEKALKYVRGLLQTEPQNNQAKELERLIDKAMKKDGLVGMAIVGGMALGV AGLAGLIGLAVSKSKS

>DP00459

MDPLSELQDDLTLDDTSEALNQLKLASIDEKNWPSDEMPDFPKSDDSKSSSPELVTHLKWDDPYYDI ARHQIVEVAGDDKYGRKIIVFSACRMPPSHQLDHSKLLGYLKHTLDQYVESDYTLLYLHHGLTSDNKP SLSWLRDAYREFDRKYKKNIKALYIVHPTMFIKTLLILFKPLISFKFGQKIFYVNYLSELSEHVKLEQLGIPR QVLKYDDFLKSTQKSPATAPKPMPPRPPLPNQQFGVSLQHLQEKNPEQEPIPIVLRETVAYLQAHALT TEGIFRRSANTQVVREVQQKYNMGLPVDFDQYNELHLPAVILKTFLRELPEPLLTFDLYPHVVGFLNID ESQRVPATLQVLQTLPEENYQVLRFLTAFLVQISAHSDQNKMTNTNLAVVFGPNLLWAKDAAITLKAI NPINTFTKFLLDHOGELFPSPDPSGL

MGYPEVERRELLPAAAPRERGSQGCGCGGAPARAGEGNSCLLFLGFFGLSLALHLLTLCCYLELRSELR RERGAESRLGGSGTPGTSGTLSSLGGLDPDSPITSHLGQPSPKQQPLEPGEAALHSDSQDGHQMALL NFFFPDEKPYSEEESRRVRRNKRSKSNEGADGPVKNKKKGKKAGPPGPNGPPGPPGPPGPQGPPGIP GIPGIPGTTVMGPPGPPGPPGPQGPPGLQGPSGAADKAGTRENQPAVVHLQGQGSAIQVKNDLSG GVLNDWSRITMNPKVFKLHPRSGELEVLVDGTYFIYSQVEVYYINFTDFASYEVVVDEKPFLQCTRSIET GKTNYNTCYTAGVCLLKARQKIAVKMVHADISINMSKHTTFFGAIRLGEAPAS

## >DP00461

MGSNGADNAHNNAFGGGKNPGIGNTSGAGSNGSASSNRGNSNGWSWSNKPHKNDGFHSDGSY HITFHGDNNSKPKPGGNSGNRGNNGDGASAKVGEITITPDNSKPGRYISSNPEYSLLAKLIDAESIKGT EVYTFHTRKGQYVKVTVPDSNIDKMRVDYVNWKGPKYNNKLVKRFVSQFLLFRKEEKEKNEKEALLKA SELVSGMGDKLGEYLGVKYKNVAKEVANDIKNFHGRNIRSYNEAMASLNKVLANPKMKVNKSDKDA IVNAWKQVNAKDMANKIGNLGKAFKVADLAIKVEKIREKSIEGYNTGNWGPLLLEVESWIIGGVVAG VAISLFGAVLSFLPISGLAVTALGVIGIMTISYLSSFIDANRVSNINNIISSVIR

#### >DP00463

MLLLLLVPLFLRPLGAGGAQTPNATSEGCQIIHPPWEGGIRYRGLTRDQVKAINFLPVDYEIEYVCRGE REVVGPKVRKCLANGSWTDMDTPSRCVRICSKSYLTLENGKVFLTGGDLPALDGARVEFRCDPDFHL VGSSRSVCSQGQWSTPKPHCQVNRTPHSERRAVYIGALFPMSGGWPGGQACQPAVEMALEDVNS RRDILPDYELKLIHHDSKCDPGQATKYLYELLYNDPIKIILMPGCSSVSTLVAEAARMWNLIVLSYGSSS PALSNRQRFPTFFRTHPSATLHNPTRVKLFEKWGWKKIATIQQTTEVFTSTLDDLEERVKEAGIEITFRQ SFFSDPAVPVKNLKRQDARIIVGLFYETEARKVFCEVYKERLFGKKYVWFLIGWYADNWFKTYDPSINC TVEEMTEAVEGHITTEIVMLNPANTRSISNMTSQEFVEKLTKRLKRHPEETGGFQEAPLAYDAIWALAL ALNKTSGGGGRSGVRLEDFNYNNQTITDQIYRAMNSSSFEGVSGHVVFDASGSRMAWTLIEQLQGG SYKKIGYYDSTKDDLSWSKTDKWIGGSPPADQTLVIKTFRFLSQKLFISVSVLSSLGIVLAVVCLSFNIYN SHVRYIQNSQPNLNNLTAVGCSLALAAVFPLGLDGYHIGRSQFPFVCQARLWLLGLGFSLGYGSMFT KIWWVHTVFTKKEEKKEWRKTLEPWKLYATVGLLVGMDVLTLAIWQIVDPLHRTIETFAKEEPKEDIDV SILPQLEHCSSKKMNTWLGELWSFAVSSDVQRRATVGGDSPICVWPAPESIFYGYKGLLLLLGIFLAYE TKSVSTEKINDHRAVGMAIYNVAVLCLITAPVTMILSSQODAAFAFASLAIVFSSYITLVVLFVPKMRRLI

TRGEWQSETQDTMKTGSSTNNNEEEKSRLLEKENRELEKIIAEKEERVSELRHQLQSRQQLRSRRHPPT PPDPSGGLPRGPSEPPDRLSCDGSRVHLLYK

#### >DP00464

MDNMSITNTPTSNDACLSIVHSLMCHRQGGESETFAKRAIESLVKKLKEKKDELDSLITAITTNGAHPS KCVTIQRTLDGRLQVAGRKGFPHVIYARLWRWPDLHKNELKHVKYCQYAFDLKCDSVCVNPYHYER VVSPGIDLSGLTLQSNAPSSMMVKDEYVHDFEGQPSLSTEGHSIQTIQHPPSNRASTETYSTPALLAPS ESNATSTANFPNIPVASTSQPASILGGSHSEGLLQIASGPQPGQQQNGFTGQPATYHHNSTTTWTGS RTAPYTPNLPHHQNGHLQHHPPMPPHPGHYWPVHNELAFQPPISNHPAPEYWCSIAYFEMDVQV GETFKVPSSCPIVTVDGYVDPSGGDRFCLGQLSNVHRTEAIERARLHIGKGVQLECKGEGDVWVRCLS DHAVFVQSYYLDREAGRAPGDAVHKIYPSAYIKVFDLRQCHRQMQQQAATAQAAAAAQAAAVAG NIPGPGSVGGIAPAISLSAAAGIGVDDLRRLCILRMSFVKGWGPDYPRQSIKETPCWIEIHLHRALQLLD EVLHTMPIADPOPLD

#### >DP00467

MMNEDAAQKSDSGEKFNGSSQRRKRPKKSDSNASFLRAARAGNLDKVVEYLKGGIDINTCNQNGL NALHLAAKEGHVGLVQELLGRGSSVDSATKKGNTALHIASLAGQAEVVKVLVKEGANINAQSQNGF TPLYMAAQENHIDVVKYLLENGANQSTATEDGFTPLAVALQQGHNQAVAILLENDTKGKVRLPALHI AARKDDTKSAALLLQNDHNADVQSKMMVNRTTESGFTPLHIAAHYGNVNVATLLLNRGAAVDFTA RNGITPLHVASKRGNTNMVKLLLDRGGQIDAKTRDGLTPLHCAARSGHDQVVELLLERGAPLLARTK NGLSPLHMAAQGDHVECVKHLLQHKAPVDDVTLDYLTALHVAAHCGHYRVTKLLLDKRANPNARA LNGFTPLHIACKKNRIKVMELLVKYGASIQAITESGLTPIHVAAFMGHLNIVLLLLQNGASPDVTNIRGE TALHMAARAGQVEVVRCLLRNGALVDARAREEQTPLHIASRLGKTEIVQLLLQHMAHPDAATTNGY TPLHISAREGOVDVASVLLEAGAAHSLATKKGFTPLHVAAKYGSLDVAKLLLQRRAAADSAGKNGLTP

LHVAAHYDNQKVALLLLEKGASPHATAKNGYTPLHIAAKKNQMQIASTLLNYGAETNIVTKQGVTPL HLASQEGHTDMVTLLLDKGANIHMSTKSGLTSLHLAAQEDKVNVADILTKHGADQDAHTKLGYTPLI VACHYGNVKMVNFLLKQGANVNAKTKNGYTPLHQAAQQGHTHIINVLLQHGAKPNATTANGNTA LAIAKRLGYISVVDTLKVVTEEVTTTTTTITEKHKLNVPETMTEVLDVSDEEGDDTMTGDGGEYLRPEDL KELGDDSLPSSQFLDGMNYLRYSLEGGRSDSLRSFSSDRSHTLSHASYLRDSAVMDDSVVIPSHQVST LAKEAERNSYRLSWGTENLDNVALSSSPIHSGFLVIFMVDARGGAMRGCRHNGLRIIIPPRKCTAPTRV TCRLVKRHRLATMPPMVEGEGLASRLIEVGPSGAQFLGPVIVEIPHFAALRGKERELVVLRSENGDSWK EHFCDYTEDELNEILNGMDEVLDSPEDLEKKRICRIITRDFPQYFAVVSRIKQDSNLIGPEGGVLSSTVVP OVOAVFPEGALTKRIRVGLOAOPMHSELVKKILGNKATFSPIVTLEPRRRKFHKPITMTIPVPKASSDV MLNGFGGDAPTLRLLCSITGGTTPAQWEDITGTTPLTFVNECVSFTTNVSARFWLIDCRQIQESVTFAS OVYREIICVPYMAKFVVFAKSHDPIEARLRCFCMTDDKVDKTLEQQENFAEVARSRDVEVLEGKPIYV DCFGNLVPLTKSGOHHIFSFFAFKENRLPLFVKVRDTTQEPCGRLSFMKEPKSTRGLVHQAICNLNITL PIYTKESESDQEQEEEIDMTSEKNPQDEQERIEERLAYIADHLGFSWTELARELDFTEEQIHQIRIENPNS LQDQSQYLLKIWLERDGKHATDTNLVECLTKINRMDIVHLMETNTEPLQERISHSYAEIEQTITLDHSE GFSVLQEELCTAQHKQKEEQAVSKESETCDHPPIVSEEDISVGYSTFQDGVPKTEGDSSSTALFPQTHK EOVOODFSGKMODLPEESSLEYOOEYFVTTPGTETSETOKAMIVPSSPSKTPEEVSTPAEEEKLYLOTP TSSERGGSPIIQEPEEPSEHREESSPRKTSLVIVESADNQPETCERLDEDAAFEKGDDMPEIPPETVTEEE YIDEHGHTVVKKVTRKIIRRYVSSEGTEKEEIMVQGMPQEPVNIEEGDGYSKVIKRVVLKSDTEQSEDN NE

#### >DP00468

MFQAAERPQEWAMEGPRDGLKKERLLDDRHDSGLDSMKDEEYEQMVKELQEIRLEPQEVPRGSEP WKQQLTEDGDSFLHLAIIHEEKALTMEVIRQVKGDLAFLNFQNNLQQTPLHLAVITNQPEIAEALLGA GCDPELRDFRGNTPLHLACEQGCLASVGVLTQSCTTPHLHSILKATNYNGHTCLHLASIHGYLGIVELL VSLGADVNAQEPCNGRTALHLAVDLQNPDLVSLLLKCGADVNRVTYQGYSPYQLTWGRPSTRIQQ QLGQLTLENLQMLPESEDEESYDTESEFTEFTEDELPYDDCVFGGQRLTL

## >DP00469

MQEQATSSLAASSLPSSSERSSSSAPHLEIKEGIESDEEIRRVPEFGGEAVGKETSGRESGSATGQERTQ ATVGESQRKRGRTPAEKENKRLKRLLRNRVSAQQARERKKAYLSELENRVKDLENKNSELEERLSTLQ NENQMLRHILKNTTGNKRGGGGGSNADASL

#### >DP00470

MEHVISMEEILGPFWDLPPSPPPLPLPEQQPLVTDTGSVVIDGVVTQGGGDGEGGDMMGQNTTEW
TFERLLEEEILINKTTLVTNSSCSTLNIDPVVEVDQGTMASGAVSAVGDPMEYNAILKRKLEVDLVAFK
MWRASSVVNSERSQDSNNHNGGSKNVVQNKLNGEDPINNHAQNVDLRVRLATSSSSRDPSPSDE
DMDGEVEILGFKMPTEERVRKRKESNRESARRSRYRKAAHLKELEDQVEQLKAENSCLLRRLAALNQK
YNEANVDNRVLRADMETLRAKVKMGEDSLKRVMEMSSLPPSMPIPALPSSSDASVPIQDDIINYFSTT
PAADEDAPVDNNSFIIMPMADPLQLVQAEDQPTMGAMELIQKTMGAMPTSPGSALQESQLLGLGP
DFTINMDMY

#### >DP00471

MNRTAFCCLSLTTALILTACSSGGGGVAADIGAGLADALTAPLDHKDKGLQSLTLDQSVRKNEKLKLA AQGAEKTYGNGDSLNTGKLKNDKVSRFDFIRQIEVDGQLITLESGEFQVYKQSHSALTAFQTEQIQDS EHSGKMVAKRQFRIGDIAGEHTSFDKLPEGGRATYRGTAFGSDDAGGKLTYTIDFAAKQGNGKIEHLK SPELNVDLAAADIKPDGKRHAVISGSVLYNQAEKGSYSLGIFGGKAQEVAGSAEVKTVNGIRHIGLAA KO

#### >DP00472

MAMRELVEAECGGANPLMKLAGHFTODKALROEGLRPGPWPPGAPASEAASKPLGVASEDELVAE

FLQDQNAPLVSRAPQTFKMDDLLAEMQQIEQSNFRQAPQRAPGVADLALSENWAQEFLAAGDAV DVTQDYNETDWSQEFISEVTDPLSVSPARWAEEYLEQSEEKLWLGEPEGTATDRWYDEYHPEEDLQ HTASDFVAKVDDPKLANSEFLKFVRQIGEGQVSLESGAGSGRAQAEQWAAEFIQQQGTSDAWVDQ FTRPVNTSALDMEFERAKSAIELQAELEEMAKRDAEAHPWLSDYDDLTSATYDKGYQFEEENPLRDH PQPFEEGLRRLQEGDLPNAVLLFEAAVQQDPKHMEAWQYLGTTQAENEQELLAISALRRCLELKPDN QTALMALAVSFTNESLQRQACETLRDWLRYTPAYAHLVTPAEEGAGGAGLGPSKRILGSLLSDSLFLE VKELFLAAVRLDPTSIDPDVQCGLGVLFNLSGEYDKAVDCFTAALSVRPNDYLLWNKLGATLANGNQ SEEAVAAYRRALELQPGYIRSRYNLGISCINLGAHREAVEHFLEALNMQRKSRGPRGEGGAMSENIWS TLRLALSMLGOSDAYGAADARDLSTLLTMFGLPO

>DP00473

MAATVATAAAVAPAPAPGTDSASSVHWFRKGLRLHDNPALLAAVRGARCVRCVYILDPWFAASSSV GINRWRFLLQSLEDLDTSLRKLNSRLFVVRGQPADVFPRLFKEWGVTRLTFEYDSEPFGKERDAAIMK MAKEAGVEVVTENSHTLYDLDRIIELNGQKPPLTYKRFQAIISRMELPKKPVGLVTSQQMESCRAEIQE NHDETYGVPSLEELGFPTEGLGPAVWQGGETEALARLDKHLERKAWVANYERPRMNANSLLASPTG LSPYLRFGCLSCRLFYYRLWDLYKKVKRNSTPPLSLFGQLLWREFFYTAATNNPRFDRMEGNPICIQIP WDRNPEALAKWAEGKTGFPWIDAIMTQLRQEGWIHHLARHAVACFLTRGDLWVSWESGVRVFDEL LLDADFSVNAGSWMWLSCSAFFQQFFHCYCPVGFGRRTDPSGDYIRRYLPKLKAFPSRYIYEPWNAP ESIQKAAKCIIGVDYPRPIVNHAETSRLNIERMKQIYQQLSRYRGLCLLASVPSCVEDLSHPVAEPSSSQ AGSMSSAGPRPLPSGPASPKRKLEAAEEPPGEELSKRARVAELPTPELPSKDA

>DP00474

MSGSVSGCGSGGCSIVWFRRDLRVEDNPALAAAVRAGPVIALFVWAPEEEGHYHPGRVSRWWLKN SLAQLDSSLRSLGTCLITKRSTDSVASLLDVVKSTGASQIFFNHLYDPLSLVRDHRAKDVLTAQGIAVRS FNADLLYEPWEVTDELGRPFSMFAAFWERCLSMPYDPESPLLPPKKIISGDVSKCVADPLVFEDDSEKG SNALLARAWSPGWSNGDKALTTFINGPLLEYSKNRRKADSATTSFLSPHLHFGEVSVRKVFHLVRIKQ VAWANEGNEAGEESVNLFLKSIGLREYSRYISFNHPYSHERPLLGHLKFFPWAVDENYFKAWRQGRT GYPLVDAGMRELWATGWLHDRIRVVVSSFFVKVLQLPWRWGMKYFWDTLLDADLESDALGWQYIT GTLPDSREFDRIDNPOFEGYKFDPNGEYVRRWLPELSRLPTDWIHHPWNAPESVLQAAGIELGSNYPL

PIVGLDEAKARLHEALSQMWQLEAASRAAIENGSEEGLGDSAEVEEAPIEFPRDITMEETEPTRLNPNR RYEDQMVPSITSSLIRPEEDEESSLNLRNSVGDSRAEVPRNMVNTNQAQQRRAEPASNQVTAMIPEF NIRIVAESTEDSTAESSSSGRRERSGGIVPEWSPGYSEQFPSEENRIGGGSTTSSYLQNHHEILNWRRLS OTG

>DP00475

>DP00482

MPREFKSFGSTEKSLLSKGHGEPSYSEIYAEPENFLEIEVHNPKTHIPNGMDSKGMFTDYEIICRTNLPSF HKRVSKVRRRYSDFEFFRKCLIKEISMLNHPKVMVPHLPGKILLSNRFSNEVIEERRQGLNTWMQSVA GHPLLQSGSKVLVRFIEAEKFVG

>DP00483

MSDSNQGNNQQNYQQYSQNGNQQQGNNRYQGYQAYNAQAQPAGGYYQNYQGYSGYQQG GYQQYNPDAGYQQQYNPQGGYQQYNPQGGYQQQFNPQGGRGNYKNFNYNNNLQGYQAGFQ PQSQGMSLNDFQKQQKQAAPKPKKTLKLVSSSGIKLANATKKVDTKPAESDKKEEEKSAETKEPTKEP TKVEEPVKKEEKPVQTEEKTEEKSELPKVEDLKISESTHNTNNANVTSADALIKEQEEEVDDEVVNDMF GGKDHVSLIFMGHVDAGKSTMGGNLLYLTGSVDKRTIEKYEREAKDAGRQGWYLSWVMDTNKEER NDGKTIEVGKAYFETEKRRYTILDAPGHKMYVSEMIGGASQADVGVLVISARKGEYETGFERGGQTRE HALLAKTQGVNKMVVVVNKMDDPTVNWSKERYDQCVSNVSNFLRAIGYNIKTDVVFMPVSGYSG ANLKDHVDPKECPWYTGPTLLEYLDTMNHVDRHINAPFMLPIAAKMKDLGTIVEGKIESGHIKKGQST LLMPNKTAVEIQNIYNETENEVDMAMCGEQVKLRIKGVEEEDISPGFVLTSPKNPIKSVTKFVAQIAIVE LKSIIAAGFSCVMHVHTAIEEVHIVKLLHKLEKGTNRKSKKPPAFAKKGMKVIAVLETEAPVCVETYQDY PQLGRFTLRDQGTTIAIGKIVKIAE

>DP00485

MVEKEEAGGGISEEEAAQYDRQIRLWGLEAQKRLRASRVLLVGLKGLGAEIAKNLILAGVKGLTMLDH EQVTPEDPGAQFLIRTGSVGRNRAEASLERAQNLNPMVDVKVDTEDIEKKPESFFTQFDAVCLTCCSR DVIVKVDQICHKNSIKFFTGDVFGYHGYTFANLGEHEFVEEKTKVAKVSQGVEDGPDTKRAKLDSSETT MVKKKVVFCPVKEALEVDWSSEKAKAALKRTTSDYFLLQVLLKFRTDKGRDPSSDTYEEDSELLLQIRN DVLDSLGISPDLLPEDFVRYCFSEMAPVCAVVGGILAQEIVKALSQRDPPHNNFFFFDGMKGNGIVEC LGPK

>DP00486

MALSRGLPRELAEAVAGGRVLVVGAGGIGCELLKNLVLTGFSHIDLIDLDTIDVSNLNRQFLFQKKHVG RSKAQVAKESVLQFYPKANIVAYHDSIMNPDYNVEFFRQFILVMNALDNRAARNHVNRMCLAADV PLIESGTAGYLGQVTTIKKGVTECYECHPKPTQRTFPGCTIRNTPSEPIHCIVWAKYLFNQLFGEEDADQ EVSPDRADPEAAWEPTEAEARARASNEDGDIKRISTKEWAKSTGYDPVKLFTKLFKDDIRYLLTMDKL WRKRKPPVPLDWAEVQSQGEETNASDQQNEPQLGLKDQQVLDVKSYARLFSKSIETLRVHLAEKGD GAELIWDKDDPSAMDFVTSAANLRMHIFSMNMKSRFDIKSMAGNIIPAIATTNAVIAGLIVLEGLKILS GKIDQCRTIFLNKQPNPRKKLLVPCALDPPNPNCYVCASKPEVTVRLNVHKVTVLTLQDKIVKEKFAM VAPDVQIEDGKGTILISSEEGETEANNHKKLSEFGIRNGSRLQADDFLQDYTLLINILHSEDLGKDVEFEV VGDAPEKVGPKQAEDAAKSITNGSDDGAQPSTSTAQEQDDVLIVDSDEEDSSNNADVSEEERSRKR KLDEKENLSAKRSRIEQKEELDDVIALD

>DP00487

MPKETPSKAAADALSDLEIKDSKSNLNKELETLREENRVKSDMLKEKLSKDAENHKAYLKSHQVHRHK LKEMEKEEPLLNEDKERTVLFPIKYHEIWQAYKRAEASFWTAEEIDLSKDIHDWNNRMNENERFFISRV LAFFAASDGIVNENLVENFSTEVQIPEAKSFYGFQIMIENIHSETYSLLIDTYIKDPKESEFLFNAIHTIPEIG EKAEWALRWIQDADALFGERLVAFASIEGVFFSGSFASIFWLKKRGMMPGLTFSNELICRDEGLHTDF ACLLFAHLKNKPDPAIVEKIVTEAVEIEQRYFLDALPVALLGMNADLMNQYVEFVADRLLVAFGNKKY YKVENPFDFMENISLAGKTNFFEKRVSDYQKAGVMSKSTKQEAGAFTFNEDF

>DP00488

MEAHNQFLKTFQKERHDMKEAEKDEILLMENSRRFVMFPIKYHEIWAAYKKVEASFWTAEEIELAKDT EDFQKLTDDQKTYIGNLLALSISSDNLVNKYLIENFSAQLQNPEGKSFYGFQIMMENIYSEVYSMMVD AFFKDPKNIPLFKEIANLPEVKHKAAFIERWISNDDSLYAERLVAFAAKEGIFQAGNYASMFWLTDKKI MPGLAMANRNICRDRGAYTDFSCLLFAHLRTKPNPKIIEKIITEAVEIEKEYYSNSLPVEKFGMDLKSIHT YIEFVADGLLQGFGNEKYYNAVNPFEFMEDVATAGKTTFFEKKVSDYQKASDMSKSATPSKEINFDDD

>DP00489

MKATIIFLLVAQVSWAGPFQQKGLFDFMLEDEASGIGPEEHFPEVPEIEPMGPVCPFRCQCHLRVVQC SDLGLEKVPKDLPPDTALLDLQNNKITEIKDGDFKNLKNLHTLILINNKISKISPGAFAPLVKLERLYLSKN QLKELPEKMPKTLQELRVHENEITKVRKSVFNGLNQMIVVELGTNPLKSSGIENGAFQGMKKLSYIRIA DTNITTIPQGLPPSLTELHLDGNKITKVDAASLKGLNNLAKLGLSFNSISAVDNGSLANTPHLRELHLN NNKLVKVPGGLADHKYIQVVYLHNNNISAIGSNDFCPPGYNTKKASYSGVSLFSNPVQYWEIQPSTF RCVYVRAAVOLGNYK

MSVDNWLLHPLWGQTFLLLLSVAVAQAHWPSEPSEAVRDWKNQLEASMHSVLSDFQEAVPTVVGI PDGTAVVGRSFRVSIPTDLIASSGEIIKVSAAGKEALPSWLHWDPHSHILEGLPLDTDKGVHYISVSAAR LGANGSHVPQTSSVFSIEVYPEDHNEPQSVRAASSDPGEVVPSACAADEPVTVLTVILDADLTKMTPK QRIDLLNRMQSFSEVELHNMKLVPVVNNRLFDMSAFMAGPGNAKKVVENGALLSWKLGCSLNQN SVPDIRGVETPAREGAMSAQLGYPVVGWHIANKKPTLPKRLRRQIHATPTPVTAIGPPTTAIQEPPSRI VPTPTSPAIAPPTETMAPPVRDPVPGKPTVTIRTRGAIIQTPTLGPIQPTRVSEAGTTVPGQIRPTLTIPGY VEPTAVITPPTTTTKKPRVSTPKPATPSTDSSTTTTRRPTKKPRTPRPVPRVTTKAPITRLETASPPTRIRTT TSGVPRGGEPNQRPELKNHIDRVDAWVGTYFEVKIPSDTFYDNEDTTTDKLKLTLKLREQQLVGEKSW VOFNSNSOLMYGLPDSSHVGKHEYFMHATDKGGLSAVDAFEIHVHKRPOGDKAPARFKARLAGDP APVVNDIHKKIALVKKLAFAFGDRNCSSITLONITRGSIVVEWTNNTLPLEPCPKEOIIGLSRRIADENGK PRPAFSNALEPDFKALSIAVTGSGSCRHLQFIPVAPPSPGSSAAPATEVPDRDPEKSSEDDVYLHTVIPA VVVAAILLIAGIIAMICYRKKRKGKLTLEDQATFIKKGVPIIFADELDDSKPPPSSSMPLILQEEKAPLPPPE YPNQSMPETTPLNQDTVGEYTPLRDEDPNAPPYQPPPFTAPMEGKGSRPKNMTPYRSPPPYVPP 

MEVOLGLGRVYPRPPSKTYRGAFONLFOSVREVIONPGPRHPEAASAAPPGASLLLLOOOOOOO

QQQQQQQQQQETSPRQQQQQGEDGSPQAHRRGPTGYLVLDEEQQPSQPQSALECHPE RGCVPEPGAAVAASKGLPQQLPAPPDEDDSAAPSTLSLLGPTFPGLSSCSADLKDILSEASTMQLLQQ QQQEAVSEGSSSGRAREASGAPTSSKDNYLGGTSTISDNAKELCKAVSVSMGLGVEALEHLSPGEQL RGDCMYAPLLGVPPAVRPTPCAPLAECKGSLLDDSAGKSTEDTAEYSPFKGGYTKGLEGESLGCSGSA AAGSSGTLELPSTLSLYKSGALDEAAAYQSRDYYNFPLALAGPPPPPPPPPPHPHARIKLENPLDYGSAW AAAAAOCRYGDLASLHGAGAAGPGSGSPSAAASSSWHTLFTAEEGOLYGPCGGGGGGGGGGGGG GGGGGGGGGGAGAVAPYGYTRPPQGLAGQESDFTAPDVWYPGGMVSRVPYPSPTCVKSEMGP WMDSYSGPYGDMRLETARDHVLPIDYYFPPQKTCLICGDEASGCHYGALTCGSCKVFFKRAAEGKQ KYLCASRNDCTIDKFRRKNCPSCRLRKCYEAGMTLGARKLKKLGNLKLQEEGEASSTTSPTEETTQKLT VSHIEGYECOPIFLNVLEAIEPGVVCAGHDNNOPDSFAALLSSLNELGEROLVHVVKWAKALPGFRNL HVDDOMAVIOYSWMGLMVFAMGWRSFTNVNSRMLYFAPDLVFNEYRMHKSRMYSOCVRMRHL SOEFGWLOITPOEFLCMKALLLFSIIPVDGLKNOKFFDELRMNYIKELDRIIACKRKNPTSCSRRFYOLTK LLDSVQPIARELHQFTFDLLIKSHMVSVDFPEMMAEIISVQVPKILSGKVKPIYFHTQ 

# >DP00499

MSGVRPPIMNGPMHPRPLVALLDGRDCTVEMPILKDVATVAFCDAQSTQEIHEKVLNEAVGALMYH TITLTREDLEKFKALRIIVRIGSGFDNIDIKSAGDLGIAVCNVPAASVEETADSTLCHILNLYRRTTWLHQA LREGTRVQSVEQIREVASGAARIRGETLGIIGLGRVGQAVALRAKAFGFNVLFYDPYLSDGIERALGLQR VSTLQDLLFHSDCVTLHCGLNEHNHHLINDFTVKQMRQGAFLVNTARGGLVDEKALAQALKEGRIR GAALDVHESEPFSFSQGPLKDAPNLICTPHAAWYSEQASIEMREEAAREIRRAITGRIPDSLKNCVNKD HLTAATHWASMDPAVVHPELNGAAYSRYPPGVVSVAPTGIPAAVEGIVPSAMSLSHGLPPVAHPPH

## APSPGQTVKPEADRDHTTDQL

#### >DP00500

### >DP00501

### >DP00502

MPGGPGVLQALPATIFLLFLLSAVYLGPGCQALWMHKVPASLMVSLGEDAHFQCPHNSSNNANVT WWRVLHGNYTWPPEFLGPGEDPNGTLIIQNVNKSHGGIYVCRVQEGNESYQQSCGTYLRVRQPPP RPFLDMGEGTKNRIITAEGIILLFCAVVPGTLLLFRKRWQNEKLGLDAGDEYEDENLYEGLNLDDCSMY EDISRGLQGTYQDVGSLNIGDVQLEKP

## >DP00503

MARLALSPVPSHWMVALLLLLSAEPVPAARSEDRYRNPKGSACSRIWQSPRFIARKRGFTVKMHCYM NSASGNVSWLWKQEMDENPQQLKLEKGRMEESQNESLATLTIQGIRFEDNGIYFCQQKCNNTSEVY QGCGTELRVMGFSTLAQLKQRNTLKDGIIMIQTLLIILFIIVPIFLLLDKDDSKAGMEEDHTYEGLDIDQT ATYEDIVTLRTGEVKWSVGEHPGQE

>DP00506

MQSGTHWRVLGLCLLSVGVWGQDGNEEMGGITQTPYKVSISGTTVILTCPQYPGSEILWQHNDKNI GGDEDDKNIGSDEDHLSLKEFSELEQSGYYVCYPRGSKPEDANFYLYLRARVCENCMEMDVMSVATI VIVDICITGGLLLLVYYWSKNRKAKAKPVTRGAGAGGRQRGQNKERPPPVPNPDYEPIRKGQRDLYSG LNORRI

>DP00508

MEQGKGLAVLILAIILLQGTLAQSIKGNHLVKVYDYQEDGSVLLTCDAEAKNITWFKDGKMIGFLTEDK KKWNLGSNAKDPRGMYQCKGSQNKSKPLQVYYRMCQNCIELNAATISGFLFAEIVSIFVLAVGVYFIA GQDGVRQSRASDKQTLLPNDQLYQPLKDREDDQYSHLQGNQLRRN

>DP00509

MIPAVVLLLLLLVEQAAALGEPQLCYILDAILFLYGIVLTLLYCRLKIQVRKAAITSYEKSDGVYTGLSTRN QETYETLKHEKPPQ

>DP00512

>DP00514

MVDLKRLRQEPEVFHRAIREKGVALDLEALLALDREVQELKKRLQEVQTERNQVAKRVPKAPPEEKEA LIARGKALGEEAKRLEEALREKEARLEALLLQVPLPPWPGAPVGGEEANREIKRVGGPPEFSFPPLDHVA LMEKNGWWEPRISQVSGSRSYALKGDLALYELALLRFAMDFMARRGFLPMTLPSYAREKAFLGTGHF PAYRDQVWAIAETDLYLTGTAEVVLNALHSGEILPYEALPLRYAGYAPAFRSEAGSFGKDVRGLMRVH QFHKVEQYVLTEASLEASDRAFQELLENAEEILRLLELPYRLVEVATGDMGPGKWRQVDIEVYLPSEGR YRETHSCSALLDWQARRANLRYRDPEGRVRYAYTLNNTALATPRILAMLLENHQLQDGRVRVPQALI PYMGKEVLEPCG

>DP00517

MSLPFYQRCHQHYDLSYRNKDVRSTVSHYQREKKRSAVYTQGSTAYSSRSSAAHRRESEAFRRASAS SSQQQASQHALSSEVSRKAASAYDYGSSHGLTDSSLLLDDYSSKLSPKPKRAKHSLLSGEEKENLPSDY MVPIFSGRQKHVSGITDTEEERIKEAAAYIAQRNLLASEEGITTPKQSTASKQTTASKQSTASK QSTASRQSVVSKQATSALQQEETSEKKSRKVVIREKAERLSLRKTLEETETYHAKLNEDHLLH APEFIIKPRSHTVWEKENVKLHCSIAGWPEPRVTWYKNOVPINVHANPGKYIIESRYGMHTLEINACDF EDTAQYRASAMNVKGELSAYASVVVKRYKGEFDETRFHAGASTMPLSFGVTPYGYASRFEIHFDDKF DVSFGREGETMSLGCRVVITPEIKHFQPEIQWYRNGVPLSPSKWVQTLWSGERATLTFSHLNKEDEGL YTIRVRMGEYYEQYSAYVFVRDADAEIEGAPAAPLDVKCLEANKDYIIISWKQPAVDGGSPILGYFIDKC EVGTDSWSQCNDTPVKFARFPVTGLIEGRSYIFRVRAVNKMGIGFPSRVSEPVAALDPAEKARLKSRPS APWTGQIIVTEEEPSEGIVPGPPTDLSVTEATRSYVVLSWKPPGQRGHEGIMYFVEKCEAGTENWQRV NTELPVKSPRFALFDLAEGKSYCFRVRCSNSAGVGEPSEATEVTVVGDKLDIPKAPGKIIPSRNTDTSVV VSWEESKDAKELVGYYIEASVAGSGKWEPCNNNPVKGSRFTCHGLVTGOSYIFRVRAVNAAGLSEYS QDSEAIEVKAAIGGGVSPDVCPALSDEPGGLTASRGRVHEASPPTFQKDALLGSKPNKPSLPSSSQNL GOTEVSKVSETVOEELTPPPOKAAPOGKSKSDPLKKKTDRAPPSPPCDITCLESFRDSMVLGWKOPD KIGGAEITGYYVNYREVIDGVPGKWREANVKAVSEEAYKISNLKENMVYOFQVAAMNMAGLGAPSA VSECFKCEEWTIAVPGPPHSLKCSEVRKDSLVLQWKPPVHSGRTPVTGYFVDLKEAKAKEDQWRGLN EAAIKNVYLKVRGLKEGVSYVFRVRAINQAGVGKPSDLAGPVVAETRPGTKEVVVNVDDDGVISLNFE CDKMTPKSEFSWSKDYVSTEDSPRLEVESKGNKTKMTFKDLGMDDLGIYSCDVTDTDGIASSYLIDEEE LKRLLALSHEHKFPTVPVKSELAVEILEKGOVRFWMQAEKLSGNAKVNYIFNEKEIFEGPKYKMHIDRN TGIIEMFMEKLQDEDEGTYTFQLQDGKATNHSTVVLVGDVFKKLQKEAEFQRQEWIRKQGPHFVEYL SWEVTGECNVLLKCKVANIKKETHIVWYKDEREISVDEKHDFKDGICTLLITEFSKKDAGIYEVILKDDRG KDKSRLKLVDEAFKELMMEVCKKIALSATDLKIQSTAEGIQLYSFVTYYVEDLKVNWSHNGSAIRYSDR VKTGVTGEQIWLQINEPTPNDKGKYVMELFDGKTGHQKTVDLSGQAYDEAYAEFQRLKQAAIAEKN RARVLGGLPDVVTIQEGKALNLTCNVWGDPPPEVSWLKNEKALASDDHCNLKFEAGRTAYFTINGVS TADSGKYGLVVKNKYGSETSDFTVSVFIPEEEARMAALESLKGGKKAK

>DP00518

MAKQPSDVSSECDREGGQLQPAERPPQLRPGAPTSLQTEPQDRSPAPMSCDKSTQTPSPPCQAFN HYLSAMASIRQSQEEPEDLRPEIRIAQELRRIGDEFNETYTRRVFANDYREAEDHPQMVILQLLRFIFRL VWRRH

MAAASYDOLLKOVEALKMENSNLROELEDNSNHLTKLETEASNMKEVLKOLOGSIEDEAMASSGOI DLLERLKELNLDSSNFPGVKLRSKMSLRSYGSREGSVSSRSGECSPVPMGSFPRRGFVNGSRESTGYLE ELEKERSLLLADLDKEEKEKDWYYAOLONLTKRIDSLPLTENFSLOTDMTRROLEYEAROIRVAMEEOL GTCODMEKRAORRIARIOOIEKDILRIROLLOSOATEAERSSONKHETGSHDAERONEGOGVGEINM ATSGNGQGSTTRMDHETASVLSSSSTHSAPRRLTSHLGTKVEMVYSLLSMLGTHDKDDMSRTLLAM SSSODSCISMROSGCLPLLIOLLHGNDKDSVLLGNSRGSKEARARASAALHNIIHSOPDDKRGRREIR VLHLLEQIRAYCETCWEWQEAHEPGMDQDKNPMPAPVEHQICPAVCVLMKLSFDEEHRHAMNEL GGLOAIAELLOVDCEMYGLTNDHYSITLRRYAGMALTNLTFGDVANKATLCSMKGCMRALVAOLKS ESEDLOOVIASVLRNLSWRADVNSKKTLREVGSVKALMECALEVKKESTLKSVLSALWNLSAHCTENK ADICAVDGALAFLVGTLTYRSQTNTLAIIESGGGILRNVSSLIATNEDHRQILRENNCLQTLLQHLKSHS LTIVSNACGTLWNLSARNPKDQEALWDMGAVSMLKNLIHSKHKMIAMGSAAALRNLMANRPAKYK DANIMSPGSSLPSLHVRKQKALEAELDAQHLSETFDNIDNLSPKASHRSKQRHKQSLYGDYVFDTNR HDDNRSDNFNTGNMTVLSPYLNTTVLPSSSSSRGSLDSSRSEKDRSLERERGIGLGNYHPATENPGTS SKRGLQISTTAAQIAKVMEEVSAIHTSQEDRSSGSTTELHCVTDERNALRRSSAAHTHSNTYNFTKSEN SNRTCSMPYAKLEYKRSSNDSLNSVSSSDGYGKRGOMKPSIESYSEDDESKFCSYGOYPADLAHKIHS ANHMDDNDGELDTPINYSLKYSDEQLNSGRQSPSQNERWARPKHIIEDEIKQSEQRQSRNQSTTYP VYTESTDDKHLKFQPHFGQQECVSPYRSRGANGSETNRVGSNHGINQNVSQSLCQEDDYEDDKPT NYSERYSEEEQHEEEERPTNYSIKYNEEKRHVDQPIDYSLKYATDIPSSQKQSFSFSKSSSGQSSKTEHM SSSSENTSTPSSNAKRONOLHPSSAOSRSGOPOKAATCKVSSINOETIOTYCVEDTPICFSRCSSLSSL SSAEDEIGCNOTTOEADSANTLOIAEIKEKIGTRSAEDPVSEVPAVSOHPRTKSSRLOGSSLSSESARHK AVEFSSGAKSPSKSGAQTPKSPPEHYVQETPLMFSRCTSVSSLDSFESRSIASSVQSEPCSGMVSGIISP SDLPDSPGOTMPPSRSKTPPPPPOTAOTKREVPKNKAPTAEKRESGPKOAAVNAAVORVOVLPDAD TLLHFATESTPDGFSCSSSLSALSLDEPFIQKDVELRIMPPVQENDNGNETESEQPKESNENQEKEAEK TIDSEKDLLDDSDDDDIEILEECIISAMPTKSSRKAKKPAQTASKLPPPVARKPSQLPVYKLLPSQNRLQP OKHVSFTPGDDMPRVYCVEGTPINFSTATSLSDLTIESPPNELAAGEGVRGGAOSGEFEKRDTIPTEGR STDEAQGGKTSSVTIPELDDNKAEEGDILAECINSAMPKGKSHKPFRVKKIMDQVQQASASSSAPNK NQLDGKKKKPTSPVKPIPQNTEYRTRVRKNADSKNNLNAERVFSDNKDSKKQNLKNNSKVFNDKLP NNEDRVRGSFAFDSPHHYTPIEGTPYCFSRNDSLSSLDFDDDDVDLSREKAELRKAKENKESEAKVTS HTELTSNOOSANKTOAIAKOPINRGOPKPILOKOSTFPOSSKDIPDRGAATDEKLONFAIENTPVCFS HNSSLSSLSDIDQENNNKENEPIKETEPPDSQGEPSKPQASGYAPKSFHVEDTPVCFSRNSSLSSLSIDS EDDLLQECISSAMPKKKKPSRLKGDNEKHSPRNMGGILGEDLTLDLKDIQRPDSEHGLSPDSENFDWK AIQEGANSIVSSLHQAAAAACLSRQASSDSDSILSLKSGISLGSPFHLTPDQEEKPFTSNKGPRILKPGEK STLETKKIESESKGIKGGKKVYKSLITGKVRSNSEISGQMKQPLQANMPSISRGRTMIHIPGVRNSSSSTS PVSKKGPPLKTPASKSPSEGOTATTSPRGAKPSVKSELSPVAROTSOIGGSSKAPSRSGSRDSTPSRPA OOPLSRPIOSPGRNSISPGRNGISPPNKLSOLPRTSSPSTASTKSSGSGKMSYTSPGROMSOONLTKO TGLSKNASSIPRSESASKGLNOMNNGNGANKKVELSRMSSTKSSGSESDRSERPVLVROSTFIKEAPS

```
PTLRRKLEESASFESLSPSSRPASPTRSQAQTPVLSPSLPDMSLSTHSSVQAGGWRKLPPNLSPTIEYND
GRPAKRHDIARSHSESPSRLPINRSGTWKREHSKHSSSLPRVSTWRRTGSSSSILSASSESSEKAKSEDE
KHVNSISGTKQSKENQVSAKGTWRKIKENEFSPTNSTSQTVSSGATNGAESKTLIYQMAPAVSKTEDV
WVRIEDCPINNPRSGRSPTGNTPPVIDSVSEKANPNIKDSKDNQAKQNVGNGSVPMRTVGLENRLN
SFIOVDAPDOKGTEIKPGONNPVPVSETNESSIVERTPFSSSSSSKHSSPSGTVAARVTPFNYNPSPRKS
SADSTSARPSQIPTPVNNNTKKRDSKTDSTESSGTQSPKRHSGSYLVTSV
```

### >DP00520

MGKLQSKHAAAARKRRESPEGDSFVASAYASGRKGAEEAERRARDKQELPNGDPKEGPFREDQCPL QVALPAEKAEGREHPGQLLSADDGERAANREGPRGPGGQRLNIDALQCDVSVEEDDRQEWTFTLY DFDNCGKVTREDMSSLMHTIYEVVDASVNHSSGSSKTLRVKLTVSPEPSSKRKEGPPAGQDREPTRC RMEGELAEEPRVADRRLSAHVRRPSTDPQPCSERGPYCVDENTERRNHYLDLAGIENYTSRFGPGSPP VQAKQEPQGRASHLQARSRSQEPDTHAVHHRRSQVLVEHVVPASEPAARALDTQPRPKGPEKQFL KSPKGSGKPPGVPASSKSGKAFSYYLPAVLPPQAPQDGHHLPQPPPPYGHKRYRQKGREGHSPLKA PHAQPATVEHEVVRDLPPTPAGEGYAVPVIQRHEHHHHHHHHHHHHHHHHHHHH

## >DP00524

MEDLDQSPLVSSSDSPPRPQPAFKYQFVREPEDEEEEEEEEEEDEDEDLEELEVLERKPAAGLSAAPVPT APAAGAPLMDFGNDFVPPAPRGPLPAAPPVAPERQPSWDPSPVSSTVPAPSPLSAAAVSPSKLPEDD EPPARPPPPPPASVSPQAEPVWTPPAPAPAAPPSTPAAPKRRGSSGSVVVDLLYWRDIKKTGVVFGA SLFLLLSLTVFSIVSVTAYIALALLSVTISFRIYKGVIQAIQKSDEGHPFRAYLESEVAISEELVQKYSNSALG HVNCTIKELRRLFLVDDLVDSLKFAVLMWVFTYVGALFNGLTLLILALISLFSVPVIYERHQAQIDHYLGL ANKNVKDAMAKIQAKIPGLKRKAE

MEDLDQSPLVSSSDSPPRPQPAFKYQFVREPEDEEEEEEEEEEDEDDLEELEVLERKPAAGLSAAPVPT APAAGAPLMDFGNDFVPPAPRGPLPAAPPVAPEROPSWDPSPVSSTVPAPSPLSAAAVSPSKLPEDD EPPARPPPPPASVSPQAEPVWTPPAPAAPASTPAAPKRRGSSGSVDETLFALPAASEPVIRSSAEN MDLKEQPGNTISAGQEDFPSVLLETAASLPSLSPLSAASFKEHEYLGNLSTVLPTEGTLQENVSEASKEV SEKAKTLLIDRDLTEFSELEYSEMGSSFSVSPKAESAVIVANPREEIIVKNKDEEEKLVSNNILHNQQELPT ALTKLVKEDEVVSSEKAKDSFNEKRVAVEAPMREEYADFKPFERVWEVKDSKEDSDMLAAGGKIESNL ESKVDKKCFADSLEOTNHEKDSESSNDDTSFPSTPEGIKDRSGAYITCAPFNPAATESIATNIFPLLGDP TSENKTDEKKIEEKKAOIVTEKNTSTKTSNPFLVAAODSETDYVTTDNLTKVTEEVVANMPEGLTPDLV OEACESELNEVTGTKIAYETKMDLVQTSEVMQESLYPAAQLCPSFEESEATPSPVLPDIVMEAPLNSAV PSAGASVIOPSSSPLEASSVNYESIKHEPENPPPYEEAMSVSLKKVSGIKEEIKEPENINAALOETEAPYISI ACDLIKETKLSAEPAPDFSDYSEMAKVEQPVPDHSELVEDSSPDSEPVDLFSDDSIPDVPQKQDETVM LVKESLTETSFESMIEYENKEKLSALPPEGGKPYLESFKLSLDNTKDTLLPDEVSTLSKKEKIPLOMEELSTA VYSNDDLFISKEAQIRETETFSDSSPIEIIDEFPTLISSKTDSFSKLAREYTDLEVSHKSEIANAPDGAGSLPC TELPHDLSLKNIOPKVEEKISFSDDFSKNGSATSKVLLLPPDVSALATOAEIESIVKPKVLVKEAEKKLPSD TEKEDRSPSAIFSAELSKTSVVDLLYWRDIKKTGVVFGASLFLLLSLTVFSIVSVTAYIALALLSVTISFRIYK GVIQAIQKSDEGHPFRAYLESEVAISEELVQKYSNSALGHVNCTIKELRRLFLVDDLVDSLKFAVLMWV

FTYVGALFNGLTLLILALISLFSVPVIYERHQAQIDHYLGLANKNVKDAMAKIQAKIPGLKRKAE
111111111111111111111111111111111111111
111111111111111111111111111111111111111
111111111111111111111111111111111111111
111111111111111111111111111111111111111
111111111111111111111111111111111111111
111111111111111111111111111111111111111
111111111111111111111111111111111111111
111111111111111111111111111111111111111
111111111111111111111111111111111111111
111111111111111111111111111111111111111
111111111111111111111111111111111111111
111111111111111111111111111111111111111
111111111111111111111111111111111111111
111111111111111111111111111111111111111
2222000000000000000000000000000000000
222222222222222222222222222222222222222
>DP00527
MKSTSLFLCSLLLLLVTGAIGRKTKEKYSQSEEVVSESFASGPSSGSSDDELVRDKPYGPKVSGGSFGEE
ASEEISSRRSKHISRSSGGSNMEGESSYAKKKRSRFAQDVLN
2222222222222222222211111111111111111
111111111111111111111111111111111111111
>DP00529
MSLEKAHTSVKKMTFGENRDLERVVTAPVSSGKIKRVNVNFDEEKHTRFKAACARKGTSITDVVNQL
VDNWLKENE
111111111111111111111111111111111111
0
> DD00E30

>DP00530

MEYGQQGQHGHGATGHVDQYGNPVGGVEHGTGGMRHGTGTGGMGQLGEHGGAGMGGGQF QPAREEHKTGGILHRSGSSSSSSSSEDDGMGGRRKKGIKEKIKEKLPGGHKDDQHATATTGGAYGQQG HTGSAYGQQGHTGGAYATGTEGTGEKKGIMDKIKEKLPGQH

111111111111111111

>DP00537

MDRSLGWQGNSVPEDRTEAGIKRFLEDTTDDGELSKFVKDFSGNASCHPPEAKTWASRPQVPEPRP QAPDLYDDDLEFRPPSRPQSSDNQQYFCAPAPLSPSARPRSPWGKLDPYDSSEDDKEYVGFATLPN QVHRKSVKKGFDFTLMVAGESGLGKSTLVNSLFLTDLYRDRKLLGAEERIMQTVEITKHAVDIEEKGVR LRLTIVDTPGFGDAVNNTECWKPVAEYIDQQFEQYFRDESGLNRKNIQDNRVHCCLYFISPFGHGLRP LDVEFMKALHQRVNIVPILAKADTLTPPEVDHKKRKIREEIEHFGIKIYQFPDCDSDEDEDFKLQDQALK ESIPFAVIGSNTVVEARGRRVRGRLYPWGIVEVENPGHCDFVKLRTMLVRTHMQDLKDVTRETHYEN YRAQCIQSMTRLVVKERNRNKLTRESGTDFPIPAVPPGTDPETEKLIREKDEELRRMQEMLHKIQKQM KENY

>DP00539

MVAGMLGLREEKSEDQDLQGLKDKPLKFKKVKKDKKEEKEGKHEPVQPSAHHSAEPAEAGKAETSEG SGSAPAVPEASASPKQRRSIIRDRGPMYDDPTLPEGWTRKLKQRKSGRSAGKYDVYLINPQGKAFRSK VELIAYFEKVGDTSLDPNDFDFTVTGRGSPSRREQKPPKKPKSPKAPGTGRGRGRPKGSGTTRPKAATS EGVQVKRVLEKSPGKLLVKMPFQTSPGGKAEGGGATTSTQVMVIKRPGRKRKAEADPQAIPKKRGRK PGSVVAAAAAEAKKKAVKESSIRSVQETVLPIKKRKTRETVSIEVKEVVKPLLVSTLGEKSGKGLKTCKSP GRKSKESSPKGRSSSASSPPKKEHHHHHHHHSESPKAPVPLLPPLPPPPPPEPESSEDPTSPPEPQDLSSSV CKEEKMPRGGSLESDGCPKEPAKTQPAVATAATAAEKYKHRGEGERKDIVSSSMPRPNREEPVDSRT PVTERVS

>DP00543

MQKEQLSALMDGETLDSELLNELAHNPEMQKTWESYHLIRDSMRGDTPEVLHFDISSRVMAAIEEEP VRQPATLIPEAQPAPHQWQKMPFWQKVRPWAAQLTQMGVAACVSLAVIVGVQHYNGQSETSQQ PETPVFNTLPMMGKASPVSLGVPSEATANNGQQQQVQEQRRRINAMLQDYELQRRLHSEQLQFE QAQTQQAAVQVPGIQTLGTQSQ

MWLRLGPPSLSLSPKPTVGRSLCLTLWFLSLALRASTQAPAPTVNTHFGKLRGARVPLPSEILGPVDQY LGVPYAAPPIGEKRFLPPEPPPSWSGIRNATHFPPVCPQNIHTAVPEVMLPVWFTANLDIVATYIQEPN EDCLYLNVYVPTEDVKRISKECARKPNKKICRKGGSGAKKQGEDLADNDGDEDEDIRDSGAKPVMVV IHGGSYMEGTGNMIDGSILASYGNVIVITLNYRVGVLGFLSTGDQAAKGNYGLLDQIQALRWVSENIA FFGGDPRRITVFGSGIGASCVSLLTLSHHSEGLFQRAIIQSGSALSSWAVNYQPVKYTSLLADKVGCNV LDTVDMVDCLRQKSAKELVEQDIQPARYHVAFGPVIDGDVIPDDPEILMEQGEFLNYDIMLGVNQGE GLKFVEGVVDPEDGVSGTDFDYSVSNFVDNLYGYPEGKDTLRETIKFMYTDWADRDNPETRRKTLVA LFTDHQWVEPSVVTADLHARYGSPTYFYAFYHHCQSLMKPAWSDAAHGDEVPYVFGVPMVGPTDL FPCNFSKNDVMLSAVVMTYWTNFAKTGDPNKPVPQDTKFIHTKANRFEEVAWSKYNPRDQLYLHIG LKPRVRDHYRATKVAFWKHLVPHLYNLHDMFHYTSTTTKVPPPDTTHSSHITRRPNGKTWSTKRPAIS

PAYSNENAQGSWNGDQDAGPLLVENPRDYSTELSVTIAVGASLLFLNVLAFAALYYRKDKRRQEPLR QPSPQRGAGAPELGAAPEEELAALQLGPTHHECEAGPPHDTLRLTALPDYTLTLRRSPDDIPLMTPNTI TMIPNSLVGLQTLHPYNTFAAGFNSTGLPHSHSTTRV

### >DP00554

MAGGAWGRLACYLEFLKKEELKEFQLLLANKAHSRSSSGETPAQPEKTSGMEVASYLVAQYGEQRA WDLALHTWEQMGLRSLCAQAQEGAGHSPSFPYSPSEPHLGSPSQPTSTAVLMPWIHELPAGCTQG SERRVLRQLPDTSGRRWREISASLLYQALPSSPDHESPSQESPNAPTSTAVLGSWGSPPQPSLAPREQ EAPGTQWPLDETSGIYYTEIREREREKSEKGRPPWAAVVGTPPQAHTSLQPHHHPWEPSVRESLCST WPWKNEDFNOKFTOLLLLORPHPRSODPLVKRSWPDYVEENRGHLIEIRDLFGPGLDTOEPRIVILOG AAGIGKSTLARQVKEAWGRGQLYGDRFQHVFYFSCRELAQSKVVSLAELIGKDGTATPAPIRQILSRPE RLLFILDGVDEPGWVLQEPSSELCLHWSQPQPADALLGSLLGKTILPEASFLITARTTALQNLIPSLEQA RWVEVLGFSESSRKEYFYRYFTDERQAIRAFRLVKSNKELWALCLVPWVSWLACTCLMQQMKRKEKL TLTSKTTTTLCLHYLAQALQAQPLGPQLRDLCSLAAEGIWQKKTLFSPDDLRKHGLDGAIISTFLKMGIL OEHPIPLSYSFIHLCFOEFFAAMSYVLEDEKGRGKHSNCIIDLEKTLEAYGIHGLFGASTTRFLLGLLSDEG EREMENIFHCRLSQGRNLMQWVPSLQLLLQPHSLESLHCLYETRNKTFLTQVMAHFEEMGMCVETD MELLVCTFCIKFSRHVKKLQLIEGRQHRSTWSPTMVVLFRWVPVTDAYWQILFSVLKVTRNLKELDLS GNSLSHSAVKSLCKTLRRPRCLLETLRLAGCGLTAEDCKDLAFGLRANQTLTELDLSFNVLTDAGAKHL CQRLRQPSCKLQRLQLVSCGLTSDCCQDLASVLSASPSLKELDLQQNNLDDVGVRLLCEGLRHPACK LIRLGLDQTTLSDEMRQELRALEQEKPQLLIFSRRKPSVMTPTEGLDTGEMSNSTSSLKRQRLGSERAA SHVAQANLKLLDVSKIFPIAEIAEESSPEVVPVELLCVPSPASQGDLHTKPLGTDDDFWGPTGPVATEV VDKEKNLYRVHFPVAGSYRWPNTGLCFVMREAVTVEIEFCVWDQFLGEINPQHSWMVAGPLLDIKA EPGAVEAVHLPHFVALQGGHVDTSLFQMAHFKEEGMLLEKPARVELHHIVLENPSFSPLGVLLKMIH NALRFIPVTSVVLLYHRVHPEEVTFHLYLIPSDCSIRKAIDDLEMKFQFVRIHKPPPLTPLYMGCRYTVSG SGSGMLEILPKELELCYRSPGEDQLFSEFYVGHLGSGIRLQVKDKKDETLVWEALVKPGDLMPATTLIPP ARIAVPSPLDAPOLLHFVDOYREOLIARVTSVEVVLDKLHGOVLSOEOYERVLAENTRPSOMRKLFSL SOSWDRKCKDGLYQALKETHPHLIMELWEKGSKKGLLPLSS

>DP00556

MPVFHTRTIESILEPVAOQISHLVIMHEEGEVDGKAIPDLTAPVSAVQAAVSNLVRVGKETVOTTEDQI LKRDMPPAFIKVENACTKLVRAAQMLQADPYSVPARDYLIDGSRGILSGTSDLLLTFDEAEVRKIIRVCK GILEYLTVAEVVETMEDLVTYTKNLGPGMTKMAKMIDEROOELTHOEHRVMLVNSMNTVKELLPVLI SAMKIFVTTKNTKSQGIEEALKNRNFTVEKMSAEINEIIRVLQLTSWDEDAWASKDTEAMKRALALIDS KMNQAKGWLRDPNAPPGDAGEQAIRQILDEAGKAGELCAGKERREILGTCKTLGQMTDQLADLRA RGQGATPMAMQKAQQVSQGLDLLTAKVENAARKLEAMTNSKQAIAKKIDAAQNWLADPNGGSE GEEHIRGIMSEARKVAELCEEPKERDDILRSLGEISALTAKLSDLRRHGKGDSPEARALAKOIATSLONL OSKTNRAVANTRPVKAAVHLEGKIEQAQRWIDNPTVDDRGVGQAAIRGLVAEGRRLANVMMGPY RQDLLAKCDRVDQLAAQLADLAARGEGESPQARAIAAQLQDSLKDLKARMQEAMTQEVSDVFSDT TTPIKLLAVAATAPSDTPNREEVFEERAANFENHAARLGATAEKAAAVGTANKTTVEGIQATVKSAREL TPQVVSAARILLRNPGNQAAYEHFETMKNQWIDNVEKMTGLVDEAIDTKSLLDASEEAIKKDLDKCK VAMANMOPOMLVAGATSIARRANRILLVAKREVENSEDPKFREAVKAASDELSKTISPMVMDAKAV AGNISDPGLOKSFLDSGYRILGAVAKVREAFOPOEPDFPPPPDLEHLHLTDELAPPKPPLPEGEVPPP RPPPPEEKDEEFPEQKAGEAINQPMMMAARQLHDEARKWSSKPVTVINEAAEAGVDIDEEDDADVE FSLPSDIEDDYEPELLLMPTNQPVNQPILAAAQSLHREATKWSSKGNDIIAAAKRMALLMAEMSRLVR GGSGNKRALIQCAKDIAKASDEVTRLAKEVAKQCTDKRIRTNLLQVCERIPTISTQLKILSTVKATMLGR TNISDEESEQATEMLVHNAQNLMQSVKETVREAEAASIKIRTDAGFTLRWVRKTPWYQ 

>DP00557

MSEESLFESSPQKMEYEITNYSERHTELPGHFIGLNTVDKLEESPLRDFVKSHGGHTVISKILIANNGIAA VKEIRSVRKWAYETFGDDRTVOFVAMATPEDLEANAEYIRMADOYIEVPGGTNNNNYANVDLIVDIA ERADVDAVWAGWGHASENPLLPEKLSQSKRKVIFIGPPGNAMRSLGDKISSTIVAQSAKVPCIPWSG TGVDTVHVDEKTGLVSVDDDIYOKGCCTSPEDGLOKAKRIGFPVMIKASEGGGGKGIROVEREEDFIA LYHQAANEIPGSPIFIMKLAGRARHLEVQLLADQYGTNISLFGRDCSVQRRHQKIIEEAPVTIAKAETFH EMEKAAVRLGKLVGYVSAGTVEYLYSHDDGKFYFLELNPRLOVEHPTTEMVSGVNLPAAOLQIAMGI PMHRISDIRTLYGMNPHSASEIDFEFKTODATKKORRPIPKGHCTACRITSEDPNDGFKPSGGTLHELN FRSSSNVWGYFSVGNNGNIHSFSDSQFGHIFAFGENRQASRKHMVVALKELSIRGDFRTTVEYLIKLLE TEDFEDNTITTGWLDDLITHKMTAEKPDPTLAVICGAATKAFLASEEARHKYIESLQKGQVLSKDLLQT MFPVDFIHEGKRYKFTVAKSGNDRYTLFINGSKCDIILRQLSDGGLLIAIGGKSHTIYWKEEVAATRLSV DSMTTLLEVENDPTOLRTPSPGKLVKFLVENGEHIIKGOPYAEIEVMKMOMPLVSOENGIVOLLKOPG STIVAGDIMAIMTLDDPSKVKHALPFEGMLPDFGSPVIEGTKPAYKFKSLVSTLENILKGYDNQVIMNA SLOOLIEVLRNPKLPYSEWKLHISALHSRLPAKLDEOMEELVARSLRRGAVFPAROLSKLIDMAVKNPE YNPDKLLGAVVEPLADIAHKYSNGLEAHEHSIFVHFLEEYYEVEKLFNGPNVREENIILKLRDENPKDLD KVALTVLSHSKVSAKNNLILAILKHYQPLCKLSSKVSAIFSTPLQHIVELESKATAKVALQAREILIQGALP SVKERTEQIEHILKSSVVKVAYGSSNPKRSEPDLNILKDLIDSNYVVFDVLLQFLTHQDPVVTAAAAQV YIRRAYRAYTIGDIRVHEGVTVPIVEWKFOLPSAAFSTFPTVKSKMGMNRAVSVSDLSYVANSOSSPLR EGILMAVDHLDDVDEILSQSLEVIPRHQSSSNGPAPDRSGSSASLSNVANVCVASTEGFESEEEILVRL REILDLNKQELINASIRRITFMFGFKDGSYPKYYTFNGPNYNENETIRHIEPALAFQLELGRLSNFNIKPIF TDNRNIHVYEAVSKTSPLDKRFFTRGIIRTGHIRDDISIQEYLTSEANRLMSDILDNLEVTDTSNSDLNHI FINFIAVFDISPEDVEAAFGGFLERFGKRLLRLRVSSAEIRIIIKDPQTGAPVPLRALINNVSGYVIKTEMYT EVKNAKGEWVFKSLGKPGSMHLRPIATPYPVKEWLOPKRYKAHLMGTTYVYDFPELFRQASSSOWK NFSADVKLTDDFFISNELIEDENGELTEVEREPGANAIGMVAFKITVKTPEYPRGRQFVVVANDITFKIG SFGPQEDEFFNKVTEYARKRGIPRIYLAANSGARIGMAEEIVPLFQVAWNDAANPDKGFQYLYLTSEG METLKKFDKENSVLTERTVINGEERFVIKTIIGSEDGLGVECLRGSGLIAGATSRAYHDIFTITLVTCRSVGI GAYLVRLGQRAIQVEGQPIILTGAPAINKMLGREVYTSNLQLGGTQIMYNNGVSHLTAVDDLAGVEKI VEWMSYVPAKRNMPVPILETKDTWDRPVDFTPTNDETYDVRWMIEGRETESGFEYGLFDKGSFFETL SGWAKGVVVGRARLGGIPLGVIGVETRTVENLIPADPANPNSAETLIQEPGQVWHPNSAFKTAQAIN DFNNGEQLPMMILANWRGFSGGQRDMFNEVLKYGSFIVDALVDYKQPIIIYIPPTGELRGGSWVVVD PTINADQMEMYADVNARAGVLEPQGMVGIKFRREKLLDTMNRLDDKYRELRSQLSNKSLAPEVHQ QISKQLADRERELLPIYGQISLQFADLHDRSSRMVAKGVISKELEWTEARRFFFWRLRRRLNEEYLIKRLS HOVGEASRLEKIARIRSWYPASVDHEDDROVATWIEENYKTLDDKLKGLKLESFAODLAKKIRSDHDN **AIDGLSEVIKMLSTDDKEKLLKTLK** 

>DP00559

MSLRYLRFLTAGESHGKGLTAILEGIPANLPLSEEEINHELRRRQRGYGRGGRMKIEKDTAEILSGVRFGK TLGSPIALFIRNRDWENWKEKMAIEGEPSPSVVPFTRPRPGHADLSGGIKYNQRDLRNILERASARETA ARVAVGAVCKKFLSEFGIKIGSFVVSIGQKEVEELKDKSYFANPEKLLSYHEKAEDSELRIPFPEKDEEFKT YIDEVKEKGESLGGVFEVFALNVPPGLGSHIQWDRRIDGRIAQAMMSIQAIKGVEIGLGFEAARRFGS QVHDEIGWSEGKGYFRHSNNLGGTEGGITNGMPIVVRVAMKPIPTLKNPLRSVDIETKEEMKAGKERT DIVAVPAASVVGEAMLAIVLADALLEKLGGDFMEEVKKRFEDYVNHVKSF

## >DP00560

MAAVTFASAITNAITNKTTSTGMVQFGSFPPMPLRSTTVTTVATPVGQPKLYTVRFGSLDPVIVKGGA GSLAKATRQQPSVEIDVSLSEAAALEVAKPKSSAVLRMHEEANKERALFLDWEASLKRRSYGIAENEKV VMTTRGVSKIVPRSSRAMKQKRARERRRAQQPIILKWEPKLSGFSIGGGFSASAIEAEEVRTKWPLHKT PSMKKRMVHKTCKMSDQGVDMLIRSLVKIFKAKSANIEYIGKKPIKVDFIRKERTKFARIQVAHLLGKRA QRDLLAGMEENHFIDILSEYSGNGTTINPGVVCAGWSGIVVRNETLTQKRSRSPSKAFVIRGEHEDKLY DARIKITKTMSLKIVHFSARGANFWKGFDRCFLAYRSDNREHTCYSGLDVTECGEVAALMCLAMFPC

GKITCPDCVIDSELSQGQASGPSMKHRLTQLRDVIKSSYPRFKHAVQILDRYEQSLSSANENYQDFAEI OSISDGVEKAAFPHVNKLNAILIKGATATGEEFSOATKHLLEIARYLKNRTENIEKGSLKSFRNKVSOKA HINPTLMCDNQLDKNGNFIWGERGYHAKRFFSNYFEIIDPKKGYTQYETRVVPNGSRKLAIGKLIVPTN FEVLREQMRGEPVEPYPVTVECVSKSQGDFVHACCCVTTESGDPVLSEIKMPTKHHLVIGNSGDPKYI DLPEIEENKMYIAKEGYCYINIFLAMLVNVKESQAKEFTKVVRDKLVSELGKWPTLLDVATACYFLKVFY PDVANAELPRMLVDHKTKIIHVVDSYGSLSTGYHVLKTNTVEQLIKFTRCNLESSLKHYRVGGTEWEN AHGADNIDNPOWCIKRLVKGVYRPKOLKEDMLANPFLPLYALLSPGVILAFYNSGSLEHLMNHYISA DSNVAVLLVVLKSLAKKVSTSQSVLAQLQIIERSLPELIEAKANINGPDDAATRACNRFMGMLLHMAE PNYELANGGYTFLRDHSISILEKSYLOILDEAWNELSWSERCVIRYYPSKOAIFTOKDLPMOSEADLGG RYSESVISSYEWSKQQAKGVKDSVVNKLRSSMSWTSSKVSNSVCRTINYLVPDVFKFMNVLVCISLLIK MTAEANHIITTORRLKLDIEETERKKIEWELAFHHNILTHSASOHPTLDEFTAYIAEKAPHLSEHIEPEEKE VVHQAKROSEQELERVIAFVALVLMMFDAERSDCVTKILNKLKGLVATVEPTVYHQTLNEIEDDLNER NLFVDFELSSDSEMLQQLPAEKTFASWWSHQLSRGFTIPHYRTEGKFMTFTRATATEVAGKIAHESDK DILLMGAVGSGKSTGLPYHLSRKGNVLLLEPTRPLAENVHKQLSQAPFHQNTTLRMRGLTAFGSAPIS VMTSGFALNYFANNRSRIEEFDFVIFDECHVHDANAMAMRCLIHECDYSGKIIKVSATPPGREVEFST OYPVSISTEDTLSFODFVNAQGSGSNCDVISKGDNILVYVASYNEVDTLSKLLIERDFKVTKVDGRTMK VGNIEITTSGTPSRKHFIVATNIIENGVTLDIDVVADFGTKVLPYLDTDNRMLSTTKTSINYGERIQRLGR VGRHKPGHALRIGHTERGLSEVPSCIATEAALKCFTYGLPVITNNVSTSILGNVTVKQARTMSVFEITPF YTSQVVRYDGSMHPQVHALLKRFKLRDSEIVLTKLAIPNRGVNAGSQPVSMHDSVQMLKIGVTLRIPF MCRDIPEKLHLDMWDVVVKFKGDAGFGRLSSSASKVAYTLQTDVNSIQRTVTIIDTLIAEERRKQEYFK TVTSNCVSSSNFSLQSITNAIKSRMMKDHPCENISVLEGAKSQLLEFRNLNSDHSFVTKTDGISRSFMR DYGALEAVNHOSTNEMSKFLOLKGKWNKTLITRDVLVICGVLGGGVWMVVOHFRSKVSEPVTHEAK GKKQRQKLKFRNARDNKMGREVYGDDDTIEHFFGDAYTKKGKSKGRTRGIGHKNRKFINMYGFDPE DFSAVRFVDPLTGATLDDNPFTDITLVQKHFGDIRMDLLGEDELDSNEIRMNKTIQAYYMNNKTGKA LKVDLTPHIPLKVCDLHATIAGFPERENELRQTGKAQPINIDEVPRANNELVPVDHESNSMFRGLRDY NPISNNICHLTNVSDGASNSLYGVGFGPLILTNRHLFERNNGELIIKSRHGEFVIKNTTOLHLLPIPDRDL LLIRLPKDVPPFPOKLGFROPEKGERICMVGSNFOTKSITSIVSETSTIMPVENSOFWKHWISTKDGOC GSPMVSTKDGKILGLHSLANFONSINYFAAFPDDFTEKYLHTIEAHEWVKHWKYNTSAISWGSLNIQA SQPVSLFKVSKLISDLDSTAVYAQTQQNRWMFEQLTGNLKAIAHCPSQLVTKHTVKGKCQMFDLYLK LHDEAREYFOPMLGOYOKSKLNREAYAKDLLKYATPIEAGNIDCDLFEKTVEIVISDLRGYGFETCNYV TDENDIFEALNMKSAVGALYKGKKKDYFAEFTPEVKEEILKQSCERLFLGKMGVWNGSLKAELRPLEKV EANKTRTFTAAPLDTLLGGKVCVDDFNNQFYDHNLRAPWDVGMTKFYCGWDRLLESLPDGWVYC DADGSOFDSSLSPYLINAVLNIRLGFMEEWDVGEVMLRNLYTEIVYTPISTPDGTLVKKFKGNNSGOP STVVDNTLMVILAVNYSLKKGGIPSELRDSIIRFFVNGDDLLLSVHPEYEYILDTMADNFRELGLKYTFDS RTREKGDLWFMSHOGHRREGIWIPKLEPERIVSILEWDRSKEPCHRLEAICAAMIESWGYDKLTHEIRK FYAWMIEQAPFSSLAQEGKAPYIAETALRKLYLDKEPAQEDLTQYLQAIFEDYEDGVEACVYHQAGET LDADLTEEOKOAEKEKKEREKAEKEREROKOLAFKKGKDVAOEEGKRDKEVNAGTSGTFSVPRLKSLT SKMRVPRYEKRVALNLDHLILYTPEOTDLSNTRSTRKOFDTWFEGVMADYELTEDKMQIILNGLRVW CIENGTSPNINGMWVMMDGDDQVEFPIKPLIDHAKPTFRQIMAHFSDVAEAYIEKRNQDRPYMPRY GLQRNLTDMSLARYAFDFYEMTSRTPIRAREAHIQMKAAALRGANNNLFGLDGNVGTTVENTERHT **TEDVNRNMHNLLGVOGL** 

```
222222222222
```

#### >DP00561

MAAKSSSSSTTTNVVTLKAAWVLPQRTQNIREVYEVGRKLGQGQFGTTFECTRRASGGKFACKSIPKR KLLCKEDYEDVWREIQIMHHLSEHANVVRIEGTYEDSTAVHLVMELCEGGELFDRIVQKGHYSERQAA RLIKTIVEVVEACHSLGVMHRDLKPENFLFDTIDEDAKLKATDFGLSVFYKPGESFCDVVGSPYYVAPEV LRKLYGPESDVWSAGVILYILLSGVPPFWAESEPGIFRQILLGKLDFHSEPWPSISDSAKDLIRKMLDQN PKTRLTAHEVLRHPWIVDDNIAPDKPLDSAVLSRLKQFSAMNKLKKMALRVIAERLSEEEIGGLKELFK MIDTDNSGTITFDELKDGLKRVGSELMESEIKDLMDAADIDKSGTIDYGEFIAATVHLNKLEREENLVSA FSYFDKDGSGYITLDEIQQACKDFGLDDIHIDDMIKEIDQDNDGQIDYGEFAAMMRKGNGGIGRRTM RKTLNLRDALGLVDNGSNQVIEGYFK

MAIFSVYVVNKAGGLIYQLDSYAPRAEAEKTFSYPLDLLLKLHDERVLVAFGQRDGIRVGHAVLAING MDVNGRYTADGKEVLEYLGNPANYPVSIRFGRPRLTSNEKLMLASMFHSLFAIGSQLSPEQGSSGIEM LETDTFKLHCYQTLTGIKFVVLADPRQAGIDSLLRKIYEIYSDFALKNPFYSLEMPIRCELFDQNLKLALEV AEKAGTFGPGS

MDIRPIIISLLISTCVQADRICVGYLSTNSTEKVDTLLENDVPVTSSIDLVETNHTGTYCSLDGISPVHLGD CSFEGWIVGNPACTSNFGIREWSYLIEDPSAPHGLCYPGELDNNGELRHLFSGIRSFSRTELIAPTSWGE VNDGATSACRDNTGTNSFYRNLVWFVKKGNSYPVISRTYNNTTGRDVLVMWGLHHPVSTDETKSLY VNSDPYTLVSTSSWSKKYKLETGVRPGYNGQRSWMKIYWVLMHPGESITFESNGGLLAPRYGYIIEEY GKGRIFQSPIRIARCNTRCQTSVGGINTNKTFQNIERNALGNCPKYIKSGQLKLATGLRNVPAISNRGLF GAIAGFIEGGWPGLINGWYGFQHQNEQGVGIAADKESTQKAIDQITTKINNIIDKMNGNYDSIRGEFS QVEQRINMLADRIDDAVTDVWSYNAKLLVLLENDKTLDMHDANVRNLHEQVRRTLKANAIDEGNG CFELLHKCNDSCMDTIRNGTYNHAEYAEESKLKRQEIEGIKLKSEDNVYKALSIYSCIASSVVLVGLILAFI MWACSSGNCRFNVCI

>DP00567

 ${\tt MKLSCLLLTLTIIFVLTIVHAPNVEAKDLADPESEAVGFADAFGEADAVGEADPNAGLGSVFGRLARILG} \\ {\tt RVIPKVAKKLGPKVAKVLPKVMKEAIPMAVEMAKSQEEQQPQ} \\$ 

>DP00568

MQNSHSGVNQLGGVFVNGRPLPDSTRQKIVELAHSGARPCDISRILQVSNGCVSKILGRYYETGSIRP RAIGGSKPRVATPEVVSKIAQYKRECPSIFAWEIRDRLLSEGVCTNDNIPSVSSINRVLRNLASEKQQM GADGMYDKLRMLNGQTGSWGTRPGWYPGTSVPGQPTQDGCQQQEGGGENTNSISSNGEDSDE AQMRLQLKRKLQRNRTSFTQEQIEALEKEFERTHYPDVFARERLAAKIDLPEARIQVWFSNRRAKWRR EEKLRNQRRQASNTPSHIPISSSFSTSVYQPIPQPTTPVSSFTSGSMLGRTDTALTNTYSALPPMPSFTM ANNLPMQPPVPSQTSSYSCMLPTSPSVNGRSYDTYTPPHMQTHMNSQPMGTSGTTSTGLISPGVS VPVOVPGSEPDMSQYWPRLO

### >DP00569

MADLGATKDRIISEINRLQQEATEHATESEERFRGLEEGQAQAGQCPSLEGRLGRLEGVCERLDTVAG GLQGLREGLSRHVAGLWAGLRETNTTSQMQAALLEKLVGGQAGLGRRLGALNSSLQLLEDRLHQLS LKDLTGEGTKGPAGEAGPPGPPGLQGPPGPAGPPGSPGKDGQEGPIGPPGPQGEQGVEGAPAAPV PQVAFSAALSLPRSEPGTVPFDRVLLNDGGYYDPETGVFTAPLAGRYLLSAVLTGHRHEKVEAVLSRS NQGVARVDSGGYEPEGLENKPVAESQPSPGTLGVFSLILPLQAGDTVCVDLVMGQLAHSEEPLTIFSG

## >DP00570

MACAAARSPADQDRFICIYPAYLNNKKTIAEGRRIPISKAVENPTATEIQDVCSAVGLNVFLEKNKMYS REWNRDVQYRGRVRVQLKQEDGSLCLVQFPSRKSVMLYAAEMIPKLKTRTQKTGGADQSLQQGEG SKKGKGKKKK

>DP00572

>DP00573

MNTTDCFIALVOAIREIKALFLSRTTGKMELTLYNGEKKTFYSRPNNHDNCWLNAILOLFRYVEEPFFD WVYSSPENLTLEAIKQLEDLTGLELHEGGPPALVIWNIKHLLHTGIGTASRPSEVCMVDGTDMCLADF HAGIFLKGOEHAVFACVTSNGWYAIDDEDFYPWTPDPSDVLVFVPYDOEPLNGEWKAKVORKLKG AGOSSPATGSONOSGNTGSIINNYYMOOYONSMDTOLGDNAISGGSNEGSTDTTSTHTTNTONN DWFSKLASSAFSGLFGALLADKKTEETTLLEDRILTTRNGHTTSTTQSSVGVTYGYATAEDFVSGPNTS GLETRVVQAERFFKTHLFDWVTSDSFGRCHLLELPTDHKGVYGSLTDSYAYMRNGWDVEVTAVGNQ FNGGCLLVAMVPELYSIQKRELYQLTLFPHQFINPRTNMTAHITVPFVGVNRYDQYKVHKPWTLVVM VVAPLTVNTEGAPOIKVYANIAPTNVHVAGEFPSKEGIFPVACSDGYGGLVTTDPKTADPVYGKVFNP PRNQLPGRFTNLLDVAEACPTFLRFEGGVPYVTTKTDSDRVLAQFDMSLAAKQMSNTFLAGLAQYYT OYSGTINLHFMFTGPTDAKARYMVAYAPPGMEPPKTPEAAAHCIHAEWDTGLNSKFTFSIPYLSAAD YAYTASGVAETTNVQGWVCLFQITHGKADGDALVVLASAGKDFELRLPVDARAETTSAGESADPVTT TVENYGGETQIQRRQHTDVSFIMDRFVKVTPQNQINILDLMQIPSHTLVGALLRASTYYFSDLEIAVKH EGDLTWVPNGAPEKALDNTTNPTAYHKAPLTRLALPYTAPHRVLATVYNGECRYNRNAVPNLRGDL OVLAOKVARTLPTSFNYGAIKATRVTELLYRMKRAETYCPRPLLAIHPTEARHKOKIVAPVKOTLNFDL LKLAGDVESNPGPFFFSDVRSNFSKLVETINOMQEDMSTKHGPDFNRLVSAFEELAIGVKAIRTGLDE AKPWYKLIKLLSRLSCMAAVAARSKDPVLVAIMLADTGLEILDSTFVVKKISDSLSSLFHVPAPVFSFGA PVLLAGLVKVASSFFRSTPEDLERAEKQLKARDINDIFAILKNGEWLVKLILAIRDWIKAWIASEEKFVTM TDLVPGILEKQRDLNDPSKYKEAKEWLDNARQACLKSGNVHIANLCKVVAPAPSKSRPEPVVVCLRG KSGOGKSFLANVLAQAISTHFTGRIDSVWYCPPDPDHFDGYNQOTVVVMDDLGQNPDGKDFKYFA OMVSTTGFIPPMASLEDKGKPFNSKVIIATTNLYSGFTPRTMVCPDALNRRFHFDIDVSAKDGYKINSK LDIIKALEDTHANPVAMFQYDCALLNGMAVEMKRMQQDMFKPQPPLQNVYQLVQEVIDRVELHEK VSSHPIFKQISIPSQKSVLYFLIEKGQHEAAIEFFEGMVHDSIKEELRPLIQQTSFVKRAFKRLKENFEIVAL CLTLLANIVIMIRETRKRQKMVDDAVNEYIEKANITTDDKTLDEAEKSPLETSGASTVGFRERTLPGQKA CDDVNSEPAQPVEEQPQAEGPYAGPLERQKPLKVRAKLPQQEGPYAGPMERQKPLKVKAKAPVVKE GPYEGPVKKPVALKVKAKNLIVTESGAPPTDLOKMVMGNTKPVELILDGKTVAICCATGVFGTAYLVP RHLFAEKYDKIMVDGRAMTDSDYRVFEFEIKVKGQDMLSDAALMVLHRGNRVRDITKHFRDTARMK KGTPVVGVINNADVGRLIFSGEALTYKDIVVCMDGDTMPGLFAYRAATKAGYCGGAVLAKDGADTFI VGTHSAGGNGVGYCSCVSRSMLLKMKAHIDPEPHHEGLIVDTRDVEERVHVMRKTKLAPTVAHGVF NPEFGPAALSNKDPRLNEGVVLDEVIFSKHKGDTKMSEEDKALFRRCAADYASRLHSVLGTANAPLSI YEAIKGVDGLDAMEPDTAPGLPWALOGKRRGALIDFENGTVGPEVEAALKLMEKREYKFVCOTFLKD EIRPLEKVRAGKTRIVDVLPVEHILYTRMMIGRFCAQMHSNNGPQIGSAVGCNPDVDWQRFGTHFA OYRNVWDVDYSAFDANHCSDAMNIMFEEVFRTEFGFHPNAEWILKTLVNTEHAYENKRITVGGGM PSGCSATSIINTILNNIYVLYALRRHYEGVELDTYTMISYGDDIVVASDYDLDFEALKPHFKSLGQTITPA DKSDKGFVLGHSITDVTFLKRHFHMDYGTGFYKPVMASKTLEAILSFARRGTIQEKLISVAGLAVHSGP DEYRRLFEPFQGLFEIPSYRSLYLRWVNAVCGDA

## >DP00574

MLPTQAGAAAALGRGSALGGSLNRTPTGRPGGGGGTRGANGGRVPGNGAGLGPGRLEREAAAAA ATTPAPTAGALYSGSEGDSESGEEELGAERRGLKRSLSEMEIGMVVGGPEASAAATGGYGPVSGAVS GAKPGKKTRGRVKIKMEFIDNKLRRYTTFSKRKTGIMKKAYELSTLTGTQVLLLVASETGHVYTFATRKL QPMITSETGKALIQTCLNSPDSPPRSDPTTDQRMSATGFEETDLTYQVSESDSSGETKDTLKPAFTVTN LPGTTSTIQTAPSTSTTMQVSSGPSFPITNYLAPVSASVSPSAVSSANGTVLKSTGSGPVSSGGLMQLP TSFTLMPGGAVAQQVPVQAIQVHQAPQQASPSRDSSTDLTQTSSSGTVTLPATIMTSSVPTTVGGH MMYPSPHAVMYAPTSGLGDGSLTVLNAFSQAPSTMQVSHSQVQEPGGVPQVFLTASSGTVQIPVS AVQLHQMAVIGQQAGSSSNLTELQVVNLDTAHSTKSE

MESIFHEKQEGSLCAQHCLNNLLQGEYFSPVELSSIAHQLDEEERMRMAEGGVTSEDYRTFLQQPSG NMDDSGFFSIQVISNALKVWGLELILFNSPEYQRLRIDPINERSFICNYKEHWFTVRKLGKQWFNLNSL LTGPELISDTYLALFLAQLQQEGYSIFVVKGDLPDCEADQLLQMIRVQQMHRPKLIGEELAQLKEQRV HKTDLERMLEANDGSGMLDEDEEDLQRALALSRQEIDMEDEEADLRRAIQLSMQGSSRNISQDMTQ TSGTNLTSEELRKRREAYFEKQQQKQQQQQQQQQQQQQQQQQQQQQQQQQQRDLSGQSSHPCERP ATSSGALGSDLGKACSPFIMFATFTLYLTYELHVIFALHYSSFPL

>DP00579

MGFVKVVKNKAYFKRYQVKFRRRREGKTDYYARKRLVIQDKNKYNTPKYRMIVRVTNRDIICQIAYARI EGDMIVCAAYAHELTKYGVKVGLTNYAAAYCTGLLLARRLLNKFGLDKVYEGQVEVTGDEYNVESID GEPGAFTCYLDAGLTRTTTGNKVFGALKGAVDGGLSIPHSTKRFPGYDSESKEFNAEVHRKHIFGQNIA EYMRLLTEEDEDAFKKQFSQYIKNGVTADQMEDIYKKAHAGIRENPVHEKKPKKEVKKKRWNRAKLSL AOKKDRVAOKKASFLRAOEKADS

>DP00581

MAANKPKGQNSLALHKVIMVGSGGVGKSALTLQFMYDEFVEDYEPTKADSYRKKVVLDGEEVQIDIL DTAGQEDYAAIRDNYFRSGEGFLCVFSITEMESFAATADFREQILRVKEDENVPFLLVGNKSDLEDKRQ VSVEEAKNRAEQWNVNYVETSAKTRANVDKVFFDLMREIRARKMEDSKEKNGKKKRKSLAKRIRERC CIL

>DP00582

>DP00583

MKASTVLQIAYLVSQESKCCSWKVGAVIEKNGRIISTGYNGSPAGGVNCCDYAAEQGWLLNKPKHAI IQGHKPECVSFGSTDRFVLAKEHRSAHSEWSSKNEIHAELNAILFAARNGSSIEGATMYVTLSPCPDCA KAIAQSGIKKLVYCETYDKNKPGWDDILRNAGIEVFNVPKKNLNKLNWENINEFCGE